

This is a digital copy of a book that was preserved for generations on library shelves before it was carefully scanned by Google as part of a project to make the world's books discoverable online.

It has survived long enough for the copyright to expire and the book to enter the public domain. A public domain book is one that was never subject to copyright or whose legal copyright term has expired. Whether a book is in the public domain may vary country to country. Public domain books are our gateways to the past, representing a wealth of history, culture and knowledge that's often difficult to discover.

Marks, notations and other marginalia present in the original volume will appear in this file - a reminder of this book's long journey from the publisher to a library and finally to you.

Usage guidelines

Google is proud to partner with libraries to digitize public domain materials and make them widely accessible. Public domain books belong to the public and we are merely their custodians. Nevertheless, this work is expensive, so in order to keep providing this resource, we have taken steps to prevent abuse by commercial parties, including placing technical restrictions on automated querying.

We also ask that you:

+ *Make non-commercial use of the files* We designed Google Book Search for use by individuals, and we request that you use these files for personal, non-commercial purposes.

+ *Refrain from automated querying* Do not send automated queries of any sort to Google's system: If you are conducting research on machine translation, optical character recognition or other areas where access to a large amount of text is helpful, please contact us. We encourage the use of public domain materials for these purposes and may be able to help.

+ *Maintain attribution* The Google "watermark" you see on each file is essential for informing people about this project and helping them find additional materials through Google Book Search. Please do not remove it.

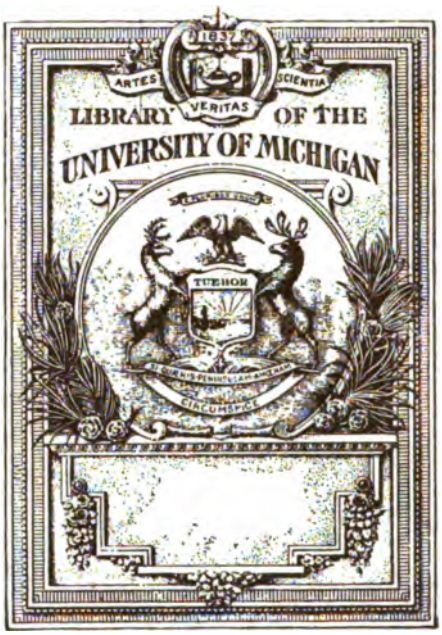
+ *Keep it legal* Whatever your use, remember that you are responsible for ensuring that what you are doing is legal. Do not assume that just because we believe a book is in the public domain for users in the United States, that the work is also in the public domain for users in other countries. Whether a book is still in copyright varies from country to country, and we can't offer guidance on whether any specific use of any specific book is allowed. Please do not assume that a book's appearance in Google Book Search means it can be used in any manner anywhere in the world. Copyright infringement liability can be quite severe.

About Google Book Search

Google's mission is to organize the world's information and to make it universally accessible and useful. Google Book Search helps readers discover the world's books while helping authors and publishers reach new audiences. You can search through the full text of this book on the web at `http://books.google.com/`

Patent Shelf
Section D

Digitized by Google



THE GIFT OF
U.S. Government

Digitized by Google

DO NOT

Digitized by Google

Digitized by Google

INDEX OF PATENTS

ISSUED FROM

THE UNITED STATES PATENT OFFICE

1920

WASHINGTON
GOVERNMENT PRINTING OFFICE
1921

Digitized by Google

Engin. Library
T
2 - 3
L
1120

Digitized by Google

INDEX OF PATENTS

ISSUED FROM

THE UNITED STATES PATENT OFFICE

1920

WASHINGTON
GOVERNMENT PRINTING OFFICE
1921

Digitized by Google



Digitized by Google

Pen. 9/1/1 U.S. govt. Mail to Engineering 5-20-63

ALPHABETICAL LIST
OF
PATENTEES FOR THE YEAR 1920.

[Patentees of Designs, Trade-Marks, Labels, and Prints, and parties who have filed Disclaimers follow this in separate indexes, but precede the Alphabetical List of Inventions.]

A.-C. Manufacturing Company. (See Sebastian, A. A., and Capes, assignors.)
A. G. A. Railway Light & Signal Co. (See Medén, Elof H., assignor.)
A-N Company, The. (See Alexander and Nash, assignors.)
A-N Company, The. (See Nash, R. J., and Alexander, assignors.)
A/S. Arendal Smelteverk. (See Kaaten, Einar, assignor.)
A/S. Bjorgums Gevaerkompani. (See Björgum, Nils, assignor.)
A/S Mekano. (See Schepeler, Herman A., assignor.)
A/S Myrens Verkstad. (See Elling, Jens W. A., assignor.)
A/S Stordo Kisgruber. (See Nielsen, C., and Helleland, assignors.)
A-Z Company, The. (See Hanmer, Laurence G., assignor.)
Aagaard, Carl L., Rockford, Ill. Hand scraping-tool. No. 1,345,658; July 6; v. 276; p. 65.
Aalborg, Christian, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Trolley. No. 1,334,943; Mar. 30; v. 272; p. 741.
Aaron, Solomon E., Boston, Mass. Pliers. No. 1,329,155; Jan. 27; v. 270; p. 554.
Aaron, Solomon E., Boston, Mass. Davit. No. 1,345,821; July 6; v. 276; p. 97.
Aaron, Solomon E., Boston, Mass. Wire-stripping pliers. No. 1,354,365; Sept. 28; v. 278; p. 662.
Aarts, Jacobus G., Dongen, near Breda, Netherlands. Furnace. No. 1,352,338; Sept. 7; v. 278; p. 120.
Aaseth, Gustav, Christiania, Norway. Machine for cultivating unbroken ground. No. 1,353,012; Sept. 14; v. 278; p. 289.
Abbadini, Orgerio, Fairbanks, Pa. Separable rim. No. 1,335,778; Apr. 6; v. 278; p. 15.
Abbey, Eddie G., assignor of one-fourth to W. Smerdon, one-fourth to J. W. Ruggles, and one-fourth to H. H. Davies, Monett, Mo. Apparatus for utilizing exhaust-steam. No. 1,335,414; Mar. 30; v. 272; p. 880.
Abbott, Adrian O., Jr., Detroit, Mich. Fishing-reel. No. 1,353,816; Sept. 28; v. 278; p. 551.
Abbott, Adrian, O., Jr., Detroit, Mich., assignor to Morgan & Wright. Windshield for vehicle-wheels. No. 1,359,647; Nov. 23; v. 280; p. 628.
Abbott, Arthur, Toronto, Ontario, Canada. Tableware-drainer. No. 1,350,351; Aug. 24; v. 277; p. 603.
Abbott, Cecil H., Chester, Va., assignor of one-half to J. L. Fountain, Jr., Raleigh, N. C. Incubator. No. 1,337,183; Apr. 20; v. 273; p. 415.
Abbott, Charles C., Pittsfield, Mass., assignor to General Electric Company. Electric heater. No. 1,345,730; July 6; v. 276; p. 79.
Abbott, Charles C., Pittsfield, Mass., assignor to General Electric Company. Electric heating unit. No. 1,350,910; Aug. 24; v. 277; p. 711.
Abbott, Charles M., Watertown, Mass., assignor to Polygon Products Company, Boston, Mass. Compound for penetrating interior corrosion. No. 1,333,363; Mar. 9; v. 272; p. 277.
Abbott, F. J., Jr. (See Vance, Arlyn T.)
Abbott, Herbert E., and E. Enz, Oakville, Iowa. Tractor steering device. No. 1,327,511; Jan. 6; v. 270; p. 118.
Abbott Incorporated. (See Abbott, William E., assignor.)
Abbott, James H., Philadelphia, Pa. Dental mandrel. No. 1,333,054; Mar. 9; v. 272; p. 219.
Abbott, James H., Philadelphia, Pa. Means for applying dental treatments. No. 1,335,413; Mar. 30; v. 272; p. 829.
Abbott Laboratories, The. (See Adams, R., and Volwiler, assignors.)
Abbott Laboratories, The. (See Kamm, O., and Vollweiler, assignors.)
Abbott Laboratories, The. (See Kamm. O., Adams, and Volwiler, assignors.)
Abbott Laboratories, The. (See Wolvekamp, Mari E., assignor.)
Abbott, Lyle S., Port Arthur, Tex., assignor to Gulf Refining Company, Pittsburgh, Pa. Utilization of aluminum-chlorid residues. No. 1,332,018; Feb. 24; v. 271; p. 622.
Abbott, Lyle S., River Edge, N. J., assignor to The Improved Equipment Company, New York, N. Y. Process of and apparatus for producing hydrogen. No. 1,345,905; July 6; v. 276; p. 114.
Abbott, Morris, Columbus, Ohio. Vehicle-curtain. No. 1,358,491; Nov. 9; v. 280; p. 312.
Abbott, Osborne H., London, England. Shoe-adapter. No. 1,354,936; Oct. 5, v. 279; p. 97.
Abbott, Percy C., Dumbarton, assignor to Hardware Specialty Co., Inc., Richmond, Va. Saw-handle. No. 1,347,432; July 20; v. 276; p. 536.
Abbott, Tom, Pontyclun, Llantrisant, Wales. Means for oiling the wheels of tramway and like vehicles. No. 1,351,196; Aug. 31; v. 277; p. 830.
Abbott, William E., assignor of one-half to L. A. Thomas, Bend, Oreg. Pencil-pointer. No. 1,332,091; Feb. 24; v. 271; p. 635.
Abbott, William E., assignor to Abbott Incorporated, Bend, Oreg. Check-book attachment. No. 1,350,203; Aug. 17; v. 277; p. 528.
Abbott, William G., Jr., Wilton, N. H. Gas-lubricated bearing. No. 1,337,742; Apr. 20; v. 273; p. 521.
Abbott, William T., *et al.* (See Soule, Charles E., assignor.)
Abegg, Julius, West Hoboken, N. J. Stylographic pen. No. 1,339,011; May 4; v. 274; p. 66.
Abel, Mitchel A., Newark, N. J. Ice-cream freezer. No. 1,337,988; Apr. 27; v. 273; p. 687.
Abelson, Abraham, Brooklyn, N. Y. Restaurant-service device. No. 1,349,647; Aug. 17; v. 277; p. 421.
Abercrombie, Charles M., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Sewing-machine. No. 1,338,064; Apr. 27; v. 273; p. 652.
Abercrombie, Jamie, Houston, and N. M. Dunman, West Columbia, Tex. Combination well-packer and setting-tool. No. 1,327,077; Jan. 6; v. 270; p. 37.
Aberegg, Otto, and U. Kohler, assignors to Hasler A.-G. vormals Telegraphenwerkstafte von G. Hasler, Berne, Switzerland. Time-recording attachment for speedometers. No. 1,356,116; Oct. 19; v. 279; p. 421.
Aberg, Carl J., Stenstorp, Sweden. Road-making. No. 1,327,181; Jan. 6; v. 270; p. 47.
Abernathy, James C. R., Evanston, Ill. Stove-casing. No. 1,357,432; Nov. 2; v. 280; p. 44.
Abernathy, Kenneth B., Danville, Ill. Smoking-pipe. No. 1,335,312; Mar. 30; v. 272; p. 811.
Abizaid, Alkoury A., Washington, D. C. Buckle. No. 1,337,181; Apr. 20; v. 273; p. 415.
Able Mfg. Co. (See Anable, Clarence E., assignor.)
Abler, John B., Guelph, Ontario, Canada. Rubber glove. No. 1,341,451; May 25; v. 274; p. 734.
Abraham, Herbert, New York, N. Y., assignor to The Standard Paint Company. Strip-shingle. No. 1,326,899; Jan. 6; v. 270; p. 3.
Abraham, Herbert, assignor to Standard Paint Company, New York, N. Y. Composition roofing. No. 1,357,920; Nov. 2; v. 280; p. 137.
Abrahamsen, Sigurd O., Virginia, Minn. Automatic fire-alarm. No. 1,344,471; June 22; v. 275; p. 742.
Abram Cox Stove Company. (See Mott and Kinsley, assignors.)
Abramowitz, Hyman, New York, N. Y. Toy machine-gun. No. 1,353,696; Sept. 21; v. 278; p. 484.
Abrams, Albert. (See Hoffman, Samuel O., assignor.)
Abrams, Herbert T., Orange, assignor to Ingersoll-Rand Company, Jersey City, N. J. Automatic valve for air-lift pumps. No. 1,343,190; June 15; v. 275; p. 427.
Abrams, William B., and R. I. Gay, Philadelphia, Pa. Divider for dough or the like. No. 1,352,424; Sept. 14; v. 278; p. 171.
Abramson, Louis, Brooklyn, N. Y. Handbag, valise, &c. No. 1,341,099; May 25; v. 274; p. 666.
Accessories Manufacturing Company. (See Bramming, Carl, assignor.)
Accounting Devices Company. (See Potwin, George H., assignor.)
Accounting Machine Company. (See Ekman, Andrew, assignor.)

Digitized by Google

Achard, Robert, Lyon, France. Heating or cooling apparatus. No. 1,332,092; Feb. 24; v. 271; p. 635.
Acherman, William. (See Nicholas, W., and Ackerman.)
Acheson, Edward G., New York, N. Y. Deflocculating solid materials and agents therefor. No. 1,345,305; June 29; v. 275; p. 969.
Acheson, Edward G., New York, N. Y. Deflocculating solid substances. No. 1,345,306; June 29; v. 275; p. 969.
Acheson, S., and D. N. Plant, Fairfield East, Ontario, Canada. Lamp-chimney guard. No. 1,358,492; Nov. 9; v. 280; p. 312.
Ackemann, W. F. (See Lange, William F., assignor.)
Acker, Julius J. (See Goodwin and Acker.)
Acker, Nicholas A., Oakland, Calif., assignor to American Can Company, New York, N. Y. Lining can ends. No. 1,336,013; Apr. 6; v. 273; p. 59.
Ackerman, Arthur P., Great Barrington, Mass. Adjustable divisor. No. 1,331,476; Feb. 24; v. 271; p. 519.
Ackerman, Fred, Vancouver, British Columbia, Canada. Fishing-bait. No. 1,362,586; Dec. 21; v. 281; p. 417.
Ackerman, Paul, Toronto, Ontario, Canada, assignor to S. B. Condit, Jr. Parallel-feeder protection. No. 1,333,892; Mar. 16; v. 272; p. 437.
Ackermann, Frederick, Oak Park, Ill. Internal-combustion engine. No. 1,333,591; Mar. 9; v. 272; p. 320.
Ackermann, Oscar A., St. Paul, Minn. Stock-car. No. 1,349,747; Aug. 17; v. 277; p. 441.
Ackerson, S. A., *et al.* (See Maguire, Forrest R., assignor.)
Ackley, G. S., & Co. (See Ackley, Griffin S., assignor.)
Ackley, Griffin S., Brooklyn, N. Y., assignor to G. S. Ackley & Co. Brake mechanism. No. 1,341,830; June 1; v. 275; p. 48.
Ackley, William D., Henrietta, Tex., assignor to Frank Holton & Company, Chicago, Ill. Trombone. No. 1,330,881; Feb. 17; v. 271; p. 877.
Ackroyd, Harry, East Chicago, Ind. Brine-valve. No. 1,343,072; June 8; v. 275; p. 340.
Ackroyd, John H., Milford, Conn. Gas-burner and body-covering therefor. No. 1,335,869; Apr. 6; v. 273; p. 31.
Ackroyd, John H., Milford, Conn. Gas-burner. No. 1,343,700; June 15; v. 275; p. 526.
Acme Card System Company. (See Anthony, Stanley, assignor.)
Acme Card System Company. (See Johnston, Frank H., assignor.)
Acme Card System Company. (See MacDonagh, Frank L., assignor.)
Acme Card System Company. (See Yaxley, Ernest E., assignor.)
Acme Cement Plaster Company. (See Pipe, Edward H., assignor.)
Acme Die Casting Corporation. (See Bungay, George W., assignor.)
Acme Engineering & Mfg. Co. (See Brandstetter, Josef, assignor.)
Acme Motor Truck Co. (See Kysor, Walter A., assignor.)
Acme Oil & Drill Company. (See Pace, Jefferson D., assignor.)
Acme Printing Appliance Co. (See Schussler, John H., assignor.)
Acme Staple Company. (See Michener, Elwood H., assignor.)
Acme Tool & Machine Co., The. (See Allen, Ralph, assignor.)
Acousti-Scope Corporation. (See Saltzman, Joseph G., assignor.)
Acre, Ray E. (See Andrews, E. F., and Acre.)
Ad-Photoscope Company. (See Burnett, John P., assignor.)
Adair, Adolphus G., Seattle, Wash. Nut-turning tool. No. 1,329,571; Feb. 3; v. 271; p. 43.
Adair, David G., Ionia, Mich. Milk-crate. No. 1,345,979; July 6; v. 276; p. 129.
Adair, Thomas D., Jr., assignor to Standard Thermometer Company, Boston, Mass. Carbureter-adjusting device. No. 1,338,849; May 4; v. 274; p. 37.
Adam, Folger, Joliet, Ill. Locking mechanism. No. 1,329,572; Feb. 3; v. 271; p. 43.
Adamczyk, Floryan, Coupon, Pa. Railway-tie construction. No. 1,354,366; Sept. 28; v. 278; p. 662.
Adams, Albert E. (See Sullivan, L. S., and Adams.)
Adams, Alfred B. (See Day, Roland B., assignor.)
Adams, Anderson D., Gulfport, Miss. Stake-pocket for logging-cars. No. 1,355,442; Oct. 12; v. 279; p. 249.
Adams, Arthur A. (See Emery, F. A., and Adams.)
Adams, Arthur A., Brookline, and F. A. Emery, Wellesley Hills, assignors to Boston Scale & Machine Company, Boston, Mass. Electromagnetic switch. No. 1,356,501; Oct. 19; v. 279; p. 495.
Adams, Arthur H., Sparkill, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y. Contact-terminal bank. No. 1,334,276; Mar. 23; v. 272; p. 555.
Adams, Arthur J., Heywood, near Westbury, England. Springing of vehicles. No. 1,332,093; Feb. 24; v. 271; p. 635.
Adams, Arthur J., Milwaukee, Wis. Battery-plate. No. 1,348,467; Aug. 3; v. 277; p. 66.
Adams, Arthur J., assignor to The Fulton Company, Bay City, Mich. Service-table. No. 1,333,954; Mar. 16; v. 272; p. 449.
Adams, Arthur J., assignor to The Fulton Company, Bay City, Mich. Back-adjusting device. No. 1,361,799; Dec. 14; v. 281; p. 211.
Adams-Bagnall Electric Company, The. (See Goetz, L. G., and Edeburn, assignors.)
Adams-Campbell Company, The. (See Holdaway, Hall H., assignor.)
Adams, Cecil C., Loyalton, S. D. Post-sharpener. No. 1,356,031; Oct. 19; v. 279; p. 403.
Adams, Colin H. (See Adams, Samuel H., and C. H.)
Adams, David W., assignor of forty per cent. to J. Cleveland, San Francisco, Calif. Station-indicator for electric street-cars. No. 1,357,934; Nov. 9; v. 280; p. 201.
Adams, Earl E., Rogers, Ark. Camp-stove. No. 1,357,697; Nov. 2; v. 280; p. 94.
Adams, Edgar W., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Printing-telegraph receiver. No. 1,362,587; Dec. 21; v. 281; p. 417.
Adams, Edward M., assignor to M. H. Petigor, New York, N. Y. Dispensing-pump and mixer. No. 1,349,543; Aug. 10; v. 277; p. 328.
Adams, Elliot Q. (See Wise, Louis E., assignor.)
Adams, Elliot Q., Berkeley, Calif., and Louis E. Wise, New York, N. Y. Making photosensitizing dyes effective for infra-red radiation. No. 1,338,349; Apr. 27; v. 273; p. 706.
Adams, Everett W., Adams, Mass. Portable wood-sawing machine. No. 1,364,054; Dec. 28; v. 281; p. 742.
Adams, Fred, assignor to The Perfek'tone Corporation, Philadelphia, Pa. Reproducer for talking-machines. No. 1,344,931; June 29; v. 275; p. 897.
Adams, Frederick, assignor to The Perfek'tone Corporation, Philadelphia, Pa. Talking-machine stylus-arm. No. 1,341,625; May 25; v. 274; p. 767.
Adams, Gridley, Chicago, Ill. Ironing-board. No. 1,357,017; Oct. 26; v. 279; p. 644.
Adams, H. K. (See Hardman, Charles T., assignor.)
Adams, Harriet E., Woodward, Iowa. Poultry housing device. No. 1,331,040; Feb. 17; v. 271; p. 418.
Adams, Harry E. (See Decker, H. L., and Adams.)
Adams, Harry E., Belle Vernon, Pa. Soap-holding attachment for scrub-brushes. No. 1,338,665; May 4; v. 274; p. 3.
Adams, Harry W., Minneapolis, Minn. Traction-wheel. No. 1,333,055; Mar. 9; v. 272; p. 219.
Adams, Henry T., assignor to Henry T. Adams Mfg. Company, Chicago, Ill. Temporary-binder ring. No. 1,331,226; Feb. 17; v. 271; p. 452.
Adams, Henry T., Mfg. Company. (See Adams, Henry T., assignor.)
Adams, Herbert J., Battle Creek, Mich. Filing-case for maps. No. 1,335,415; Mar. 30; v. 272; p. 880.
Adams, Horace T., and H. Altmayer, San Francisco, Calif. Split pulley. No. 1,351,197; Aug. 31; v. 277; p. 880.
Adams, Irving W., assignor to Adams X-Ray Co., Detroit, Mich. Fire-extinguisher. No. 1,359,478; Nov. 23; v. 280; p. 595.
Adams, J. S. (See Lemons, James H., assignor.)
Adams, James L., Jr., assignor to A. O. Smith Corporation, Milwaukee, Wis. Electric welding. No. 1,332,184; Feb. 24; v. 271; p. 652.
Adams, James L., Jr., and H. H. Welch, assignors to A. O. Smith Corporation, Milwaukee, Wis. Electric-arc-welding machine. No. 1,343,607; June 15, v. 275; p. 507.
Adams, James R., Somerset, Pa. Wheel-hub and bearing. No. 1,350,851; Aug. 24; v. 277; p. 700.
Adams, James S., New York, N. Y. Propelling means for aeroplanes. No. 1,356,829; Oct. 19; v. 279; p. 463.
Adams, John J., assignor of one-third to O. A. Thompson, Independence, Kans. Double-spring latch. No. 1,332,874; Mar. 9; v. 272; p. 185.
Adams, Joseph H., Brooklyn, N. Y., assignor to The Texas Company, Houston, Tex. Conversion of liquids, fluids, and oils. No. 1,327,263; Jan. 6; v. 270; p. 72.
Adams, Julius F., Pittsburgh, Pa. Burner for gas-heaters. No. 1,361,504; Dec. 14; v. 281; p. 212.
Adams, Leonard, Buffalo, N. Y. Annular steam rotary motor. No. 1,345,526; July 6; v. 276; p. 39.
Adams, Lewis M., Ridgefield Park, N. J. Typographic plate. No. 1,346,583; July 13; v. 276; p. 309.
Adams, Lytle S. (See Van den Heuvel, William, assignor.)
Adams, Lytle S., Venice, Calif. Cable-laying machine. No. 1,337,184; Apr. 20; v. 273; p. 415.
Adams, Matthew W., Cleveland, Ohio. Bandage. No. 1,363,075; Dec. 21; v. 281; p. 512.
Adams, Otis, assignor of one-half to F. Cooper, near Rio, Ill. Corn-husking cylinder. No. 1,346,931; July 20; v. 276; p. 437.
Adams, Otto. (See Freeman, Arthur J., assignor.)
Adams-Pond Company. (See Allbright, Edwin F., assignor.)
Adams, Ray P., Lohrville, Iowa. Valve-cap for pneumatic tires. No. 1,346,073; July 6; v. 276; p. 147.
Adams, Raymond K., Dwyer, Wyo. Hoisting-crane or stacker. No. 1,353,697; Sept. 21; v. 278; p. 485.

Digitized by Google

Alphabetical list of patentees—Continued.

Adams, Reed, Lapeer, Mich. Printing-press. No. 1,328,253; Jan. 20; v. 270; p. 355.
Adams, Roger. (See Kamm, O., Adams, and Volwiler.)
Adams, Roger, Urbana, and E. H. Volwiler, assignors to The Abbott Laboratories, Chicago, Ill. Allyl esters of p-amino benzoic acid. No. 1,360,994; Dec. 7; v. 281; p. 3.
Adams, Roy H., Boynton, Okla. Mechanism for moving engines off of dead-centers. No. 1,335,086; Mar. 30; v. 272; p. 769.
Adams, Samuel H. and C. H., Fulford, England. Fluid or air direct-pressure lifting and forcing apparatus for solids and semi-solids. No. 1,347,358; July 20; v. 276; p. 522.
Adams, Thomas M., Houston, Tex. Standing valve. No. 1,353,303; Sept. 21; v. 278; p. 405.
Adams, Thomas W., and L. B. Stump, Cleveland, Ohio. Toy. No. 1,357,212; Nov. 2; v. 280; p. 3.
Adams & Westlake Co., The. (See Hamm, William S., assignor.)
Adams & Westlake Co., The. (See Hamm, W. S., and Schuetz, assignors.)
Adams & Westlake Company, The. (See Krohn, Nels, assignor.)
Adams & Westlake Company, The. (See Krohn, Nelson, assignor.)
Adams, William A. (See Skublin, Charles P., assignor.)
Adams, William C., Lincoln, Nebr. Flue-closure. No. 1,347,139; July 20; v. 276; p. 478.
Adams, William G., East San Diego, Calif. Vehicle-wheel rim. No. 1,355,641; Oct. 12; v. 279; p. 287.
Adams, William S. (See Cole, C. M., and Adams.)
Adams, Victor, Lexington, Ky. Vapor-heater for engines. No. 1,356,482; Oct. 19; v. 279; p. 492.
Adams, Walter L., assignor to Enterprise Manufacturing Company, Akron, Ohio. Fishing-reel. No. 1,357,670; Nov. 2; v. 280; p. 89.
Adams-Williams Manufacturing Corporation. (See Bresin, Louis, assignor.)
Adams X-Ray Co. (See Adams, Irving W., assignor.)
Adamson, Andrew J., Winner, S. D. Automobile-heater. No. 1,340,314; May 18; v. 274; p. 445.
Adamson, David, *et al.* (See Sheedy, Patrick, assignor.)
Adamson, David W., Richfield, Utah. Cement. No. 1,338,117; Apr. 27; v. 273; p. 662.
Adamson, James E. (See Akin, John H., assignor.)
Adamson, Walter. (See Burstall, W. H., and Adamson.)
Adamson, William. (See Dufresne, D. E., and Adamson.)
Adaptable Tractor Co. (See Chandler, F. F., and Myers, assignors.)
Adapti Company, The. (See Nickerson, Oris H., assignor.)
Adapti Company, The. (See Rosenfeld, Mortimer C., assignor.)
Adcock, R. C., *et al.* (See Swatzell, David N., assignor.)
Addison, William D., Manning, Iowa. Tire-chain connector. No. 1,360,859; Nov. 30; v. 280; p. 935.
Addressograph Company. (See Duncan, Joseph S., assignor.)
Ade, William F., Philadelphia, Pa. Garment-supporter. No. 1,341,406; May 25; v. 274; p. 725.
Adelman, Arthur, and H. J. Stambaugh, assignors to United States Ordnance Company, Washington, D. C. Recoil-operated gun. No. 1,359,454; Nov. 16; v. 280; p. 545.
Adels, Rebecca V., Houston, Tex. Can-opener. No. 1,359,305; Nov. 16; v. 280; p. 515.
Adelsbach, Jacob A. (See Aulman, Harry E., assignor.)
Adelson, Samuel L., Chicago, Ill. Combination-shaker. No. 1,348,468; Aug. 3; v. 277; p. 66.
Adelson, Samuel L., New York, N. Y. Protective socket. No. 1,348,620; Aug. 3; v. 277; p. 95.
Adelsperger, Dow L., assignor to The Bauer Brothers Company, Springfield, Ohio. Method of and apparatus for treating cotton-seed. No. 1,349,034; Aug. 10; v. 277; p. 227.
Adicks, Henry, Duttons Landing, Calif. Vaporizer for liquid fuels. No. 1,345,822; July 6; v. 276; p. 97.
Adix, Albert W., and G. W. Haglund, Boone, Iowa. Hog-breeding crate. No. 1,340,357; May 18; v. 274; p. 453.
Adix, Albert W., and G. W. Haglund, Boone, Iowa. Farrowing-crate. No. 1,361,660; Dec. 7; v. 281; p. 137.
Adjuria Incorporated. (See Brewer, Charles A., assignor.)
Adkins, Otto O., Wichita Falls, Tex. Threading apparatus for pipes. No. 1,363,213; Dec. 28; v. 281; p. 579.
Adler, Herman, New York, N. Y. Feeding device for producing spiral switches. No. 1,340,099; May 11; v. 274; p. 347.
Adler, Milton D., New York, N. Y. Toy. No. 1,331,971; Feb. 24; v. 271; p. 613.
Adler, Stella, St. Louis, Mo. Doll. No. 1,328,254; Jan. 20; v. 270; p. 255.
Adrian, Manuel. (See Ostenberg, Pontus, assignor.)
Adriance Machine Works, Inc. (See Calleson, Amos, assignor.)
Adsit, Frank W., Minneapolis, Minn. Alternating-current rectifier. No. 1,332,862; Mar. 2; v. 272; p. 131.
Adsit, Frank W., St. Paul, Minn. Photographic phonograph. No. 1,338,719; May 4; v. 274; p. 18.
Adsit, Frank W., St. Paul, assignor to C. D. Enochs, Minneapolis, Minn. Electromagnetic power control. No. 1,361,216; Dec. 7; v. 281; p. 46.
Advance Machine Co. (See Antoine, A. D., and Travis, assignors.) (Reissue.)
Advance Manufacturing Company, The. (See Runyan, Clay M., assignor.)
Advance Manufacturing & Supply Company. (See Lang, John, assignor.)
Advance-Rumely Company. (See Secor, John A., assignor.)
Adwear Process Sole Leather Machine Co. (See Schick, George A., assignor.)
Aeolian Company, The. (See Callender, Romaine, assignor.)
Aeolian Company, The. (See Dickinson, Joseph H., assignor.)
Aeolian Company, The. (See Emmons, Charles L., assignor.)
Aeolian Company, The. (See Head, Robert, assignor.)
Aeolian Company, The. (See Paddack, Simon D., assignor.)
Aeolian Company, The. (See Starkie, J. W., and Clinton, assignor.)
Aermotor Company. (See Scholes, Daniel R., assignor.)
Aero & General Pump Manufacturing Company. (See Briggs, John C., assignor.)
Aero Pulverizer Company. (See Seymour, Frederick, assignor.)
Aero Tank Machine Gun Co. (See Moore, E. T., and Singer, assignors.)
Aeromarine Plane & Motor Co. (See Robinson, Hugh A., assignor.)
Aeroplane Railway Patents Corporation. (See Williams, Franklin M., assignor.)
Aeschbach, Friedrich, Aarau, Switzerland. Mixing and kneading machine. No. 1,336,878; Apr. 13; v. 273; p. 283.
Aetna Explosives Company. (See Flurscheim, Bernhard J., assignor.)
Affel, Herman A., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Combined carrier and radio system. No. 1,353,698; Sept. 21. v. 278; p. 485.
Affelder, Harry F., Cleveland, Ohio. Envelop-clasping machine. No. 1,328,472; Jan. 20; v. 270; p. 397.
Afranel, Moses, New York, N. Y. Brush-holder No. 1,343,381; June 15; v. 275; p. 463.
Africa, Elmer M., assignor to J. C. Blair Company, Huntingdon, Pa. Guide-line sheet. No. 1,340,100; May 11; v. 274; p. 347.
Agee, Arthur E. (See Sharpnack, M. C., and Crisman, assignors.)
Agranat, Simon, assignor to J. Levy, Boston, Mass. Combined clock and time-stamp. No. 1,338,418; Apr. 27; v. 273; p. 717.
Agrillo, Giuseppe, Brooklyn, N. Y. Bottle-filler. No. 1,352,165; Sept. 7; v. 278; p. 87.
Aguere, Arthur, West Somerville, Mass. Electric plug. No. 1,353,699; Sept. 21; v. 278; p. 485.
Ahana, William W. L., Honolulu, Hawaii. Envelop. No. 1,328,028; Jan. 13; v. 270; p. 276.
Ahearn, Thomas, Ottawa, Ontario, Canada. Resetting device for phonographs. No. 1,340,358; May 18; v. 274; p. 453.
Ahern, Harry H., Newport News, Va. Wind scoop and screen for port-holes. No. 1,330,569; Feb. 10; v. 271; p. 260.
Ahlberg, Gustav A. F., Pittsburgh, Pa. Carbureter. No. 1,356,117; Oct. 19; v. 279; p. 421.
Ahlbom, Oscar W., Salt Lake City, Utah. Bicycle-sled. No. 1,350,052; Aug. 17; v. 277; p. 499.
Ahlbrecht, August, Pittsburgh, Pa. Aeroplane. No. 1,362,070; Dec. 14; v. 281; p. 265.
Ahlby, John, Ontonagon, Mich. Tie and rail holder. No. 1,360,860; Nov. 30; v. 280; p. 935.
Ahlen, William. (See Williams, H. D., and Ahlen.)
Ahlgren, John M., Indianapolis, Ind. Storage-battery container. No. 1,341,871; June 1; v. 275; p. 51.
Ahlin, Albert, assignor to Orrefors Bruks Aktiebolag, Orrefors, Sweden. Manufacturing decorated articles of glass with colored figures in the glass mass. No. 1,343,806; June 15; v. 275; p. 547.
Ahlm, Charles E. F., Cleveland Heights, Ohio. Battery-charging and starting system for automobiles. No. 1,352,166; Sept. 7; v. 278; p. 87.
Ahlstrom, Fritz A., Absaraka, N. D. Fencing-machine. No. 1,353,304; Sept. 21; v. 278; p. 405.
Ahlswede, Charles, Manitowoc, Wis. Vehicle signaling device. No. 1,337,185; Apr. 20; v. 273; p. 415.
Ahman, Frank P., Norfolk, Va. Headlight. No. 1,336,407; Apr. 13; v. 273; p. 193.
Ahrendt, William G., Newark, N. J. Belt-buckle. No. 1,354,450; Sept. 28; v. 278; p. 679.
Ahrens, Charles W., New York, N. Y. Collar-supporter. No. 1,337,989; Apr. 27; v. 273; p. 637.
Ahrens, Charles W., New York, N. Y. Collar-supporter. No. 1,345,823; July 6; v. 276; p. 97.
Ainsworth, Harry G., Kentland, Ind. Trousers-support. No. 1,335,927; Apr. 6; v. 273; p. 42.
Ainsworth, Mark, Kansas City, Mo. Fan-supporting device. No. 1,332,875; Mar. 9; v. 272; p. 185.
Aidlotte, William F., Hiattville, Kans. Sickle-bar. No. 1,340,868; May 25; v. 274; p. 621.

Digitized by Google

Aigner, George J., Chicago, Ill. Index-tab. No. 1,346,101; July 13; v. 276; p. 215.
Aigner, George J., Chicago, Ill. Index-tab. No. 1,347,241; July 20; v. 276; p. 498.
Aiken, Edward L. (See Aylsworth, J. W., and Aiken.)
Aiken, Frank W., assignor of one-half to J. M. Rice, Dayton, Ohio. Combination blotter and pencil-sharpener. No. 1,363,546; Dec. 28; v. 281; p. 644.
Aikman, Burton S., assignor to National Brake & Electric Company, Milwaukee, Wis. Pneumatic-core wire-puller. No. 1,343,701; June 15; v. 275; p. 526.
Aikman, Burton S., assignor to National Brake & Electric Company, Milwaukee, Wis. Pump and plumbing system. (Reissue.) No. 14,935; Aug. 24; v. 277; p. 731.
Aikman, Burton S., assignor to National Brake & Electric Company, Milwaukee, Wis. Pump and pumping system. (Reissue.) No. 14,946; Sept. 7; v. 278; p. 135.
Aikman, Burton S., assignor to National Brake & Electric Company, Milwaukee, Wis. Pump and pumping system. No. 1,356,684; Oct. 26; v. 279; p. 579.
Aikman, Burton S., assignor to National Brake & Electric Company, Milwaukee, Wis. Pump. No. 1,357,671; Nov. 2; v. 280; p. 89.
Aikman, Burton S., assignor to National Brake & Electric Company, Milwaukee, Wis. Pump. No. 1,359,945; Nov. 23; v. 280; p. 688.
Aikman, Walter M., Greenwich, Conn., assignor to The Central Stamping Company, New York, N. Y. Composite bake-pan. No. 1,343,991, June 22; v. 275; p. 648.
Ailes, Adrian S., assignor of sixty per cent. to J. H. Taft, Chicago, Ill. Auxiliary safe-lock. No. 1,350,766; Aug. 24; v. 277; p. 685.
Ainge, George H., Springfield, Ohio. Tool for testing spark-plugs. No. 1,345,337; July 6; v. 276; p. 3.
Ainsworth, Earl B. (See Elliott, Harvey, and Ainsworth.)
Ainsworth, Howard D. (See Freitag, K. J. W., and Ainsworth.)
Ainsworth, William A., Utica, N. Y. Dyeing-machine. No. 1,348,974; Aug. 10; v. 277; p. 215.
Air Brake Safety Appliance Co. (See Hellmann, L. F., and Baxter, assignors.)
Air Production Company. (See Kaufman, Alfonse, assignor.)
Air Reduction Company. (See Jacobs, Charles B., assignor.)
Air Reduction Company. (See Metzger, Floyd J., assignor.)
Air Reduction Company. (See von Recklinghausen, Max, assignor.)
Air Reduction Company. (See Russell, Richard F., assignor.)
Air Reduction Company. (See Zouck, George H., assignor.)
Aircraft Manufacturing Company Limited, The. (See Wilkinson, George S., assignor.)
Airhart, Lewis, West Reading, assignor to Textile Machine Works, Wyomissing, Pa. Electrical switch. No. 1,339,911; May 11; v. 274; p. 312.
Aisen, Maurice, New York, N. Y., assignor to Grain Soaps Corporation, Dover, Del. Making soaps and detergents. No. 1,360,252; Nov. 30; v. 280; p. 817.
Aisen, Maurice, New York, N. Y., assignor to Grain Soaps Corporation, Dover, Del. Making soaps and detergents. No. 1,360,253; Nov. 30; v. 280; p. 817.
Aisen, Maurice, New York, N. Y., assignor to Grain Soaps Corporation, Dover, Del. Making soaps and detergents. No. 1,360,254; Nov. 30; v. 280; p. 817.
Aisenstein, William, assignor to Wilmort Manufacturing Company, Chicago, Ill. Combined ash-tray and pipe-cleaner. No. 1,356,586; Oct. 26; v. 279; p. 559.
Aitken, Allan J., Buffalo, N. Y. Power attachment for automobiles. No. 1,332,589; Mar. 2; v. 272; p. 79.
Aitken, William, assignor to The Relay Automatic Telephone Company, Limited, London, England. Telephone system. No. 1,338,350; Apr. 27; v. 273; p. 706.
Aitken, William A., Gravesend, England. Fourdrinier paper-making machine. No. 1,353,941; Sept. 28; v. 278; p. 575.
Aitkin, W. B., *et al.* (See Harmon, Charles E., assignor.)
Aizcorve, Esteban G., Caibarien, Cuba. Apparatus for the manufacture of sugar. No. 1,358,132; Nov. 9; v. 280; p. 240.
Ajax Manufacturing Company, The. (See Blakeslee, John R., assignor.)
Ajax Metal Company, The. (See Northrup, Edwin F., assignor.)
Ajax Quilting and Manufacturing Company. (See Kanta and Huml, assignors.)
Ajello, Gaetan, New York, N. Y. Safety device for aircraft. No. 1,354,367; Sept. 28; v. 278; p. 663.
Ajello, Gaetan, New York, N. Y. Shoe sole and heel. No. 1,363,076; Dec. 21; v. 281; p. 513.
Ake, Albert A., Kansas City, Mo. Automatic air and water propeller. No. 1,330,296; Feb. 10; v. 271; p. 209.
Akeley, Carl E., New York, N. Y. Training control for light-projectors. No. 1,341,004; May 25; v. 274; p. 647.
Akeley, Carl E., New York, N. Y. Mirror and backing same. No. 1,342,578; June 8; v. 275; p. 242.
Åkerblom, Nils L., Stockholm, Sweden. Recovering cymene obtained in sulfite-cellulose process. No. 1,333,694; Mar. 16; v. 272; p. 400.
Akerley, Fred R., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Method of and apparatus for forming or finishing top lifts. No. 1,337,990; Apr. 27; v. 273; p. 687.
Akerlund, Karl R., Chicago, Ill. Controller mechanism. No. 1,357,672; Nov. 2; v. 280; p. 89.
Akers, Lawrence S., Memphis, Tenn. Fire-door-closing apparatus. No. 1,343,757; June 15; v. 275; p. 537.
Akimoff, Nicholas W., Philadelphia, Pa., assignor to Vibration Specialty Company. Method of and apparatus for testing for dynamic balances. No. 1,343,954; June 22; v. 275; p. 641.
Akimoff, Nicholas W., Philadelphia, Pa., assignor to Vibration Specialty Company. Shaft-support for testing purposes. No. 1,347,316; July 20; v. 276; p. 513.
Akin, Delbert A., assignor of one-third to J. Meckay, and one-third to E. F. Fuller, Spokane, Wash. Dental flask and charger. No. 1,353,942; Sept. 28; v. 278; p. 576.
Akin, John H., Gilbert, Iowa. Crochet-hook. No. 1,355,878; Oct. 19, v. 279; p. 374.
Akin, John H., assignor of one-half to J. E. Adamson, Ames, Iowa. Starting and landing mechanism for aeroplanes. No. 1,342,145; June 1; v. 275; p. 105.
Akon, Hans P., *et al.* (See Alseth, Stengrim, assignor.)
Akst, Sigmund, Washington, D. C. Buckle. No. 1,362,459; Dec. 14; v. 281; p. 340.
Aktiebolaget C. E. Johansson. (See Johansson, C. E., and Sjökvist, assignors.)
Aktiebolaget C. E. Johansson. (See Johansson, Carl E., assignor.)
Aktiebolaget Carlit. (See Carlson, Oscar B., assignor.)
Aktiebolaget Gyro. (See Cassel, Gunnar E., assignor.)
Aktiebolaget Ferrolegeringar. (See Kalling, B. M. S., and Dalnell, assignors.)
Aktiebolaget Karlstads Mekamiska Verkstad. (See Wagner, Rudolf E., assignor.)
Aktiebolaget Kvofveindustri. (See Holmgren, T. A. F., and Thorssell, assignors.)
Aktiebolaget Kvafveindustri. (See Thorssell, C. T., and Lundén, assignors.)
Aktiebolaget Lidköpings Mekaniska Verkstad. (See Soderlund, Carl G., assignor.)
Aktiebolaget Ljungströms Angturbin. (See Ljungström, Birger, assignor.)
Aktiebolaget Ljungström Angturbin. (See Ljungström, B. and J., assignors.)
Aktiebolaget Ljungströms Angturbin. (See Ljungström, F., and Broberg, assignors.)
Aktiebolaget Ljungströms Angturbin. (See Ljungström, Fredrik, assignor.)
Aktiebolaget Mjolkningsmaskinen Manus. (See Jonsson, Gustaf E., assignor.)
Aktiebolaget Nitrogenium. (See Carlson, Oscar F. S., assignor.)
Aktiebolaget Patria. (See Öhrström, Vilhelm T., assignor.)
Aktiebolaget Pump-Separator. (See Brundin, Josef E., assignor.)
Aktiebolaget Pump-Separator. (See Munters, Anders J. E., assignor.)
Aktiebolaget Salenius' Werkstader. (See Eskilson, Sven A., assignor.)
Aktiebolaget Svenska Kullagerfabriken. (See Bråkenhielm, Carl A. B. R., assignor.)
Aktiebolaget Svenska Kullagerfabriken. (See Hultgren, Axel G. E., assignor.)
Aktiebolaget Svenska Kullagerfabriken. (See Lindhé, Roland W., assignor.)
Aktiebolaget Svenska Kullagerfabriken. (See Nordlund, Erland, assignor.)
Aktiebolaget Svenska Kullagerfabriken. (See Olsson, Nils J., assignor.)
Aktiebolaget Svenska Kullagerfabriken. (See Palmgren, Nils A., assignor.)
Aktiebolaget Svenska Kullagerfabriken. (See Rydbeck, Patrik S., assignor.)
Aktiebolaget Svenska Kullagerfabriken. (See Wingqvist, Erik H., assignor.)
Aktiebolaget Svenska, Kullagerfabriken. See Wingquist S. G., and Fjellman, assignors.)
Aktiebolaget Vaporackumulator. (See Ruths, Johannes K., assignor.)
Aktiengesellschaft Brown Boveri & Cie. (See Brown, Eric, assignor.)
Aktiengesellschaft, Kummler & Matter. (See Eichenberger, Ferdinand, assignor.)
Aktiengesellschaft der Maschinenfabriken Escher Wyss & Co. (See Guyer, Hans, assignor.)
Aktiengesellschaft der Maschinenfabriken Escher Wyss & Cie. (See Von Wurstemberger, Franz, assignor.)
Aladdin Products Company. (See Robison, Clinton S., assignor.)
Aladdin & Renew Electric Lamp Corporation, The. (See Harrison, Francis, assignor.)
Alaska Packers Association. (See Clark, Frederick F., assignor.)

Digitized by Google

Alphabetical list of patentees—Continued.

Albany Perforated Wrapping Paper Company. (See Crandell, Willis S., assignor.)
Albaugh, Ellis, San Antonio, Tex. Check-turning device. No. 1,333,288; Mar. 9; v. 272; p. 262.
Albaugh, Maurice, Quincy, Ohio. Feeder for hogs. No. 1,333,528; Mar. 9; v. 272; p. 307.
Albé, Angelo, Turin, Italy. Type-casting machine. No. 1,352,644; Sept. 14; v. 278; p. 216.
Albee, Honestus M., Nutley, N. J. Machine for carving, routing, and similar operations. No. 1,349,250; Aug. 10; v. 277; p. 271.
Alberg, R. (See Fleming, Joseph J., assignor.)
Alberger Gas Engine Company. (See Bogart, John A., assignor.) (Reissue.)
Alberghini, Florrie A., New York, N. Y. Hair-waver. No. 1,360,861; Nov. 30; v. 280; p. 936.
Albergoli, Bernardo, Las Rosas, Argentina. Construction of wooden chairs in general. No. 1,357,673; Nov. 2; v. 280; p. 89.
Alberico, Antonio, Joliet, Ill. Aeroplane. No. 1,346,107; July 13; v. 276; p. 216.
Alberico, Antonio, Joliet, Ill. Air-motor. No. 1,358,669; Nov. 9; v. 280; p. 348.
Albers, Ulfert L., Rico, Colo. Toothbrush. No. 1,326,900; Jan. 6; v. 270; p. 3.
Albers, William C., New York, assignor to A. F. Pierce, Brooklyn, N. Y. Picture-projecting machine. No. 1,352,420; Sept. 14; v. 278; p. 171.
Albersworth, Henry J. (See Powell, E. L., and Albersworth.)
Albert, Joseph, Brooklyn, N. Y. Detachable lining and sleeves. No. 1,354,868; Oct. 5; v. 279; p. 84.
Albert, Joseph, Brooklyn, N. Y. Detachable lining. No. 1,363,209; Dec. 28; v. 281; p. 579.
Albert, Walter P. (See Williams, S. B., Jr., and Albert.)
Alberti, Emilio, New York, assignor to International Cork Company, Brooklyn, N. Y. Feeding attachment for crown-cork making machines. No. 1,353,136; Sept. 21; v. 278; p. 373.
Albertie, Addis E., Detroit, Mich. Collapsible chair and the like. No. 1,344,431; June 22; v. 275; p. 734.
Albertson & Company. (See Albertson, Frans O., assignor.)
Albertson, Frans O., assignor to Albertson & Company, Sioux City, Iowa. Valve-seat reamer. No. 1,340,359; May 18; v. 274; p. 453.
Albertson, Linden, Newark, N. J. Valve. No. 1,343,490; June 15; v. 275; p. 484.
Albertson, Nels P., Frankford, S. D. Frame-elevating means for shock-loaders. No. 1,337,874; Apr. 20; v. 273; p. 546.
Albin, Isaac, assignor of one-half to J. A. Pruscha, Memphis, Tenn. Combined mop and scrubber. No. 1,331,477; Feb. 24; v. 271; p. 519.
Albinson, Alvin, Minneapolis, Minn. Plaster gage and reinforcement. No. 1,346,437; July 13; v. 276; p. 281.
Albinson, Alvin, Minneapolis, Minn. Plaster gage and reinforcement. No. 1,357,018; Oct. 26; v. 279; p. 644.
Albonesi, Charles, Dumont, N. J. Window. No. 1,342,411; June 8; v. 275; p. 209.
Alborn, Frans G., Milford, Conn., assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn. Motor-vehicle. No. 1,358,670; Nov. 9; v. 280; p. 348.
Albrecht, Albert W., St. Louis, Mo. Survey-post. No. 1,345,111; June 29; v. 275; p. 930.
Albrecht, Albert W., St. Louis, Mo. Collapsible burial-casket. No. 1,349,799; Aug. 17; v. 277; p. 451.
Albrecht, Armin G., St. Paul, Minn. Wheel-puller. No. 1,354,271; Sept. 28; v. 278; p. 644.
Albrecht, Edward, Philadelphia, Pa. Sled. No. 1,355,520; Oct. 12; v. 279; p. 264.
Albrecht, Edward, Philadelphia, Pa. Automatic talking-machine. No. 1,358,185; Nov. 9; v. 280; p. 250.
Albrecht, George M., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Electromotive device. No. 1,344,196; June 22; v. 275; p. 688.
Albrecht, George M., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Electromotive device. No. 1,344,197; June 22; v. 275; p. 688.
Albrecht, Hermen E., What Cheer, Iowa. Gambrel. No. 1,350,632; Aug. 24; v. 277; p. 659.
Albrecht, John H., Pittsburgh, and W. O. Lum, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Motor-control system. No. 1,330,616; Feb. 10; v. 271; p. 269.
Albrecht, John H., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Motor-control system. No. 1,360,257; Nov. 30; v. 280; p. 817.
Albrecht, Robert, Arlington, N. J. Oven attachment. No. 1,359,306; Nov. 16; v. 280; p. 515.
Albright, Andrew, Jr. (See Golly, Louis.)
Albright, George A. (See Brown, Roy E., assignor.)
Albright, Henry F., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Grinding, polishing, and buffing machine and the like. No. 1,339,312; May 4; v. 274; p. 122.
Albright, Warren W., Columbiana, Ala. Door-check. No. 1,338,205; Apr. 27; v. 273; p. 678.
Albrook, Morel G., Delhi, Iowa. Gearing. No. 1,333,364; Mar. 9; v. 272; p. 277.
Alcañiz y Bascompte, Francisco. (See Diegues y Lopez, J., and Alcañiz y Bascompte.)
Alchin, Albert E., Perth Amboy, N. J. Machine for cutting blocks of ice-cream into bricks. No. 1,330,154; Feb. 10; v. 271; p. 183.
Alcock, Frederick T., Kamloops, British Columbia, Canada. Tool-holder. No. 1,327,984; Jan. 13; v. 270; p. 258.
Alcorn, Blockouse & Co. (See Blockouse, Robert J. G., assignor.)
Alcorn, John S., New Haven, Conn., assignor of one-third to C. S. Farquhar, Boston, and one-third to R. J. Lynd, Somerville, Mass. Differential gearing. No. 1,354,937; Oct. 5; v. 279; p. 97.
Alden, Charles A., Steelton, Pa. Railway-switch apparatus. No. 1,341,161; May 25; v. 274; p. 677.
Alden, Herbert W., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Tractor. No. 1,349,249; Aug. 10; v. 277; p. 270.
Alden, Milton, assignor to Dental Electric Company, Springfield, Mass. Electrical supply apparatus. No. 1,330,153; Feb. 10; v. 271; p. 183.
Aldenbruck, Herbert G., and L. E. Webber, St. Paul, Minn.; said Webber assignor to said Aldenbruck. Rolling device for scrubbing, &c. No. 1,348,683; Aug. 3; v. 277; p. 107.
Aldendorff, Fritz, Wilmersdorf, Berlin, Germany. Switching apparatus. No. 1,348,835; Aug. 3; v. 277; p. 135.
Alder, Frederick T., Mt. Vernon, N. Y. Vehicle wheel and spoke. No. 1,349,035; Aug. 10; v. 277; p. 227.
Alderman, L. R., & Co. (See Walker, Roy S., assignor.)
Alderson, William, Kimberley, South Africa. Construction of ships. No. 1,349,800; Aug. 17; v. 277; p. 451.
Aldis, Arthur J. (See Parsons, C. A., Cook, and Aldis.)
Aldon Company, The. (See Roe, Emil W. K., assignor.)
Aldrich, Byron V., Vandalia, Mich. Compound for tempering iron and steel. No. 1,361,298; Dec. 7; v. 281; p. 63.
Aldrich Pump Company. (See Aldrich, Roscoe H., assignor.)
Aldrich, Roscoe H., assignor to Aldrich Pump Company, Allentown, Pa. Reinforced pump-casing. No. 1,327,512; Jan. 6; v. 270; p. 118.
Aldrich, Roscoe H., assignor to Aldrich Pump Company, Allentown, Pa. Unloading mechanism. No. 1,334,828; Mar. 23; v. 272; p. 660.
Aldridge, James G. W., Westminster, London, England. Machine for charging and discharging retorts. No. 1,327,582; Jan. 6; v. 270; p. 131.
Alexander, Aaron, Newfield, N. Y. Automobile-jack. No. 1,354,529; Oct. 5; v. 279; p. 16.
Alexander, Andrew M., Nortonville, assignor of one-half to E. P. Alexander, Dawson Springs, Ky. Gearing. No. 1,343,189; June 15; v. 275; p. 427.
Alexander Brothers. (See Barker, A. E., assignor.)
Alexander Brothers. (See Gibb, Walton, assignor.)
Alexander, Carl A., and E. W. Young, Tacoma, Wash. Wax-pot. No. 1,360,255; Nov. 30; v. 280; p. 187.
Alexander, Charles E., Los Angeles, Calif. Standing valve. No. 1,329,738; Feb. 3; v. 271; p. 73.
Alexander, Charles L., Charlotte, N. C. Orthodontia appliance. No. 1,361,661; Dec. 7; v. 281; p. 137.
Alexander, Charles R., Philadelphia, Pa. Fire-extinguisher. No. 1,360,070; Nov. 23; v. 280; p. 712.
Alexander, Charles T., and D. W. Baker, Chanute, Kans. Automatic mechanism for raising liquid. No. 1,362,552; Dec. 14; v. 281; p. 359.
Alexander, Chester T., Victoria, British Columbia, Canada. Automobile air-brake. No. 1,341,531; May 25; v. 274; p. 749.
Alexander, D. J., *et al.* (See Parker, George C., assignor.)
Alexander, David, Chicago, Ill. Direction-indicator. No. 1,333,365; Mar. 9; v. 272; p. 277.
Alexander, Edward E., and J. T. Piggott, assignors to Taylor-Wharton Iron and Steel Company, High Bridge, N. J. Pipe-ball-annealing furnace. No. 1,354,368; Sept. 28; v. 278; p. 663.
Alexander, Emot P. (See Alexander, Andrew M., assignor.
Alexander, Francis H., Jesmond, Newcastle-upon-Tyne, England. Clutch-coupling for transmission of power by shafting. No. 1,327,935; Jan. 13; v. 270; p. 258.
Alexander, Francis H., Jesmond, Newcastle-upon-Tyne, England. Clutch-coupling for the transmission of power by shafting. No. 1,335,543; Mar. 30; v. 272; p. 853.
Alexander, George, Northcote, and J. J. Rafferty, Hawthorn, Victoria, assignors to A. E. Woods, Melbourne, Victoria, Australia. Electrically-heated water service and system. No. 1,357,019; Oct. 26; v. 279; p. 645.
Alexander, George D., New York, N. Y., assignor of one-half to C. R. Saunders, Cleveland, Ohio. Power-wrench. No. 1,341,700; June 1; v. 275; p. 17.
Alexander, George D., New York, N. Y., assignor of one-half to C. R. Saunders, Cleveland, Ohio. Power-driven tool-driver. No. 1,341,701; June 1; v. 275; p. 17.
Alexander, George E., New York, N. Y. Egg-beater. No. 1,334,274; Mar. 23; v. 272; p. 555.
Alexander, George H. (See Nash, R. J., and Alexander.)
Alexander, George H., and R. J. Nash, assignors to The A-N Company Limited, Birmingham, England. Liquid-level gage for storage-tanks and the like. No. 1,330,047; Feb. 10; v. 271; p. 163.

Digitized by Google

Alexander, Herbert, W. T. Vint, and A. Imbery, Leeds, England; said Alexander and said Vint assignors to said Imbery. Apparatus for tempering wire. No. 1,355,521; Oct. 12; v. 279; p. 264.
Alexander, James G., assignor to Alexander Mfg. Co., Inc., Ames, Iowa. Seed-disk for drills. No. 1,330,365; Feb. 10; v. 271; p. 222.
Alexander, James G., Ames, Iowa. Spring-beam cultivator. No. 1,335,928; Apr. 6; v. 273; p. 42.
Alexander, John E., Port Edwards, Wis. Device for preheating air for use in paper-making machines. No. 1,330,155; Feb. 10; v. 271; p. 183.
Alexander, John E., Port Edwards, Wis. Drier for paper-making machines. No. 1,330,366; Feb. 10; v. 271; p. 222.
Alexander, John E., Port Edwards, Wis. Cylinder for paper-drying machines. No. 1,348,469; Aug. 3; v. 277; p. 66.
Alexander, John E., Port Edwards, Wis. Longitudinal drier for paper-making machines. No. 1,359,141; Nov. 16; v. 280; p. 483.
Alexander, Loga, assignor of one-half to M. A. Scott, Alliance, Ohio. Nut-lock. No. 1,363,210; Dec. 28; v. 281; p. 579.
Alexander Mfg. Co. (See Alexander, James G., assignor.)
Alexander, Philip, Jr., Churchville, N. Y. Child's vehicle. No. 1,363,214; Dec. 28; v. 281; p. 580.
Alexander, Roy A., Bellingham, Wash. Varnished-surface burnisher. No. 1,350,537; Aug. 24; v. 277; p. 640.
Alexander, Rush, Baton Rouge, La. Collapsible paper box. No. 1,329,690; Feb. 3; v. 271; p. 64.
Alexander, True, assignor to Norton Iron Works, Ashland, Ky. Nail-packing machinery. No. 1,340,200; May 18; v. 274; p. 424.
Alexander, Verne P., Chicago, Ill. Work-clamp. No. 1,351,148; Aug. 31; v. 277; p. 820.
Alexander, Walter, New York, N. Y. Coating process. No. 1,337,380; Apr. 20; v. 273; p. 452.
Alexander, Walter, New York, N. Y. Adhesive. No. 1,337,381; Apr. 20; v. 273; p. 452.
Alexander, Walter, New York, N. Y. Adhesive composition and making same. No. 1,337,382; Apr. 20; v. 273; p. 452.
Alexander, Walter, and J. E. Clegg, New York, N. Y. Coating composition and producing same. No. 1,358,914; Nov. 16; v. 280; p. 442.
Alexander, William, Glasgow, Scotland. Depth, draft, and displacement indicator. No. 1,359,014; Nov. 16; v. 280; p. 460.
Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Means for controlling alternating currents. No. 1,328,478; Jan. 20; v. 270; p. 397.
Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Method of and means for controlling high-frequency alternating currents. No. 1,328,610; Jan. 20; v. 270; p. 428.
Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Means for controlling alternating currents. No. 1,328,797; Jan. 20; v. 270; p. 457.
Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Means for controlling alternating currents. No. 1,334,126; Mar. 16; v. 272; p. 481.
Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Regulating system for alternating-current circuits. No. 1,337,875; Apr. 20; v. 273; p. 546.
Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Method of and means for controlling electrical energy. No. 1,340,101; May 11; v. 274; p. 348.
Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Wireless signaling system. No. 1,350,911; Aug. 24; v. 277; p. 711.
Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Radioreceiving system. No. 1,350,912; Aug. 24; v. 277; p. 711.
Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Antenna. No. 1,360,167; Nov. 23; v. 280; p. 732.
Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Antenna. No. 1,360,168; Nov. 23; v. 280; p. 732.
Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Radiosignaling system. No. 1,360,169; Nov. 23; v. 280; p. 732.
Alexis, Henry F., and M. Olson, Fishlake, Minn. Pump-jack. No. 1,345,980; July 6; v. 276; p. 129.
Alexovits, Gregor, Guttenberg, N. J. Device for locating sunken ships. No. 1,337,383; Apr. 20; v. 273; p. 453.
Aley, Jacob B., Spokane, Wash. Mechanical chart. No. 1,335,708; Mar. 30; v. 272; p. 885.
Alfano, Giuseppe, New York, N. Y. Safety device for elevators. No. 1,327,513; Jan. 6; v. 270; p. 118.
Alfisi, Giuseppe, Toronto, Ontario, Canada. Egg-boiler. No. 1,337,876; Apr. 20; v. 273; p. 546.
Alford, Charles S., and O. Lombard, Wausau, Wis. Dust-removing device for granite-surfacing machines. No. 1,333,597; Mar. 16; v. 272; p. 381.
Alford, George, Medford, Oreg. Plow. No. 1,355,375; Oct. 12; v. 279; p. 236.
Alfreds, Torris H., Chicago, Ill. Hand-operated saw for cutting rails and the like. No. 1,361,805; Dec. 14; v. 281; p. 212.
Algeo, Alexander K., Hope, N. D. Wild-oats separator. No. 1,331,608; Feb. 24; v. 271; p. 544.
Alicando, Frank. (See Coletta, Luigi, assignor.)
Alien Property Custodian. (See Fischer, Adalbert, assignor.)
Alien Property Custodian. (See Grüttefien, Wilhelm, assignor.)
Alinder, Henry, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Roasting-furnace. No. 1,332,152; Feb. 24; v. 271; p. 646.
Alitalo, Kustaa E., Åbo, Finland. Fire-extinguishing apparatus. No. 1,353,884; Sept. 28; v. 278; p. 564.
Alkire, Oscar F. (See Peters, G. W., and Alkire.)
Alkire, Paulaski, Myton, Utah. Suspender-fab. No. 1,331,406; Feb. 17; v. 271; p. 485.
Allan, Allen C., Chicago, Ill. Pliers, wrench, and the like. No. 1,337,986; Apr. 27; v. 273; p. 637.
Allan, James H., assignor, by mesne assignments, to United States Window Glass Company, Morgantown, W. Va. Glass-drawing apparatus. No. 1,342,080; June 1; v. 275; p. 91.
Allan, John W., Minneapolis, Minn. Combination boiler and furnace. No. 1,337,632; Apr. 20; v. 273; p. 499.
Allan, William N., San Antonio, Tex. Vehicle-wheel. No. 1,340,592; May 18; v. 274; p. 498.
Allan, William N., San Antonio, Tex. Vehicle-wheel. No. 1,340,593; May 18; v. 274; p. 498.
Allan, William N., San Antonio, Tex. Vehicle-wheel. No. 1,353,700; Sept. 21; v. 278; p. 485.
Allana, Priscilla. (See Lambert, Emma N., assignor.)
Alland, Felix, Boston, Mass. Sanitary cup. No. 1,330,033; Feb. 3; v. 271; p. 128.
Allatt, Thomas, New York, assignor to International Cork Company, Brooklyn, N. Y. Disk-sorting machine. No. 1,337,031; Apr. 13; v. 273; p. 312.
Allbright, Edwin F., Atlantic, assignor to Adams-Pond Company, Inc., Boston, Mass. Concrete construction. No. 1,353,373; Sept. 21; v. 278; p. 419.
Allbright-Nell Company, The. (See Elder, Benjamin W., assignor.)
Allbright-Nell Company, The. (See Grabowski, Anton F., assignor.)
Allbright-Nell Co. (See Kohlhepp, John W., assignor.)
Allbright-Nell Company, The. (See Kohlhepp, John W., assignor.)
Allcutt, Chester T., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of field excitation for dynamo-electric machines. No. 1,334,942; Mar. 30; v. 272; p. 741.
Allcutt, Chester T., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Molding hollow bodies. No. 1,343,191; June 15; v. 275; p. 427.
Allcutt, Chester T., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Voltage protective device. No. 1,361,800; Dec. 14; v. 281; p. 211.
Allcutt, Chester T., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Lightning-arrester. No. 1,361,801; Dec. 14; v. 281; p. 211.
Alldredge, Francis B., Des Moines, Iowa. Combined worm and lever steering-gear device. No. 1,351,937; Sept. 7; v. 278; p. 45.
Allee, William L., Topeka, Kans. Brace. No. 1,346,736; July 13; v. 276; p. 340.
Allegretti, Benedetto E., Chicago, Ill. Candy-making machine. No. 1,329,282; Jan. 27; v. 270; p. 578.
Alleman, Edward C., Kenosha, Wis., assignor to Simmons Company. Method of and apparatus for applying liquid coating. No. 1,340,645; May 18; v. 274; p. 508.
Allen, Albert E., Redlands, Calif. Map-case. No. 1,329,875; Feb. 3; v. 271; p. 99.
Allen, Albert J., New York, N. Y. Compression-rheostat. No. 1,359,648; Nov. 23; v. 280; p. 628.
Allen, Albert O., Jr. (See Moore, W. H., and Fleming, assignors.)
Allen, Alida E., Brooklyn, N. Y. Oil-absorbing device. No. 1,351,601; Aug. 31; v. 277; p. 911.
Allen, Annie, administratrix. (See Koenig, William J., assignor.)
Allen, Arthur C. J., San Antonio, Tex. Grease-cup. No. 1,358,493; Nov. 9; v. 280; p. 313.
Allen, Arthur D., Mount Morris, N. Y. Rotary cutter for woodworking machines. No. 1,355,024; Oct. 5; v. 279; p. 114.
Allen, Arthur M., Hope, Ark. Seat-hook. No. 1,353,701; Sept. 21; v. 278; p. 485.
Allen, Basil M. (See House, Ernest W., assignor.)
Allen, Bernard J., Blythe Bridge, and R. Y. Ames, Gidea Park, England. Casting pottery and other like articles. No. 1,336,180; Apr. 6; v. 273; p. 90.
Allen, Bernard J., Stoke-upon-Trent, England. Molding semisolid substances. No. 1,337,811; Apr. 20; v. 273; p. 533.

Digitized by Google

Alphabetical list of patentees—Continued.

Allen, Carlton H., and E. J. Trimbey, assignors of one-half to Great Northern Paper Company, Millinocket, Me. Process and apparatus for preparing paper-making stock. No. 1,357,760; Nov. 2; v. 280; p. 106.
Allen, Charles, El Paso, Tex. Settling-basin separating device. No. 1,339,682; May 11; v. 274; p. 269.
Allen, Charles, El Paso, Tex. Upward-current separating process and device. No. 1,339,683; May 11; v. 274; p. 269.
Allen, Charles, El Paso, Tex. Slime-pulp thickener. No. 1,339,684; May 11; v. 274; p. 269.
Allen, Charles, El Paso, Tex. Automatic density-indicator for slime-pulp separators. No. 1,344,370; June 22; v. 275; p. 722.
Allen, Charles, El Paso, Tex. Slime-pulp thickener. No. 1,350,204; Aug. 17; v. 277; p. 529.
Allen, Charles, El Paso, Tex. Overflow separating device. No. 1,355,070; Oct. 5; v. 279; p. 124.
Allen, Charles, El Paso, Tex. Thickener and means for removing settled solids therefrom. No. 1,355,071; Oct. 5; v. 279; p. 124.
Allen, Charles, El Paso, Tex. Slime-pulp thickener. No. 1,360,703; Nov. 30; v. 280; p. 904.
Allen, Charles A., Jr. (See Becker, Valentine G., assignor.)
Allen, Charles C., Raymilton, Pa. Skid-chain tightener. No. 1,344,472; June 22; v. 275; p. 743.
Allen, Charles H., Oakland, N. J. Signaling device for vehicles. No. 1,330,774; Feb. 17; v. 271; p. 367.
Allen, Charles H., Pittsburgh, and J. L. Morris, Crafton, Pa. Electrically-operated releasing device for weighing-machines. No. 1,339,539; May 11; v. 274; p. 241.
Allen, Charles J., *et al.*, executors. (See Allen, Samuel L.)
Allen, Charles J., Moorestown, N. J., assignor to S. L. Allen & Co., Inc. Tractor. No. 1,342,523. June 8; v. 275; p. 231.
Allen, Charles J., Moorestown, N. J., assignor to S. L. Allen & Co., Inc. Self-propelled vehicle. No. 1,349,997; Aug. 17; v. 277; p. 488.
Allen, Charles L., Pittsburgh, Pa. Toy firearm. No. 1,347,433; July 20; v. 276; p. 536.
Allen, Claude E., Kenosha, Wis., assignor to C. M. Hall Lamp Company, Detroit, Mich. Automatic air-brush machine for coating lamps, &c. No. 1,327,978; Jan. 13; v. 270; p. 265.
Allen, Clile C., Chicago, Ill. Polishing-tool for ophthalmic lenses. No. 1,356,330; Oct. 19; v. 279; p. 463.
Allen, Earl E., Council Bluffs, Iowa. Door-opener. No. 1,337,384; Apr. 20; v. 273; p. 453.
Allen, Ebenezer W. (See Helby, C. G., Burkam, Linquist, Allen, Riggin, and Lau.)
Allen, Edward A., Portland, Me. Electrolytic cell. No. 1,351,886; Sept. 7; v. 278; p. 35.
Allen, Edward B., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Buttonhole cutting and stitching machine. No. 1,330,156; Feb. 10; v. 271; p. 183.
Allen, Edward B., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Work-holder mechanism for buttonhole-sewing machines. No. 1,331,176; Feb. 17; v. 271; p. 443.
Allen, Edward B., Bridgeport, Conn., assignor to The Singer Sewing Machine Company. Thread-cutting mechanism for sewing-machines. No. 1,333,594; Mar. 16; v. 272; p. 381.
Allen, Edward B., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Starting device for sewing-machines. No. 1,334,640; Mar. 23; v. 272; p. 623.
Allen, Edward B., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Buttonhole-sewing machine. No. 1,339,732; May 11; v. 274; p. 278.
Allen, Edward B., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Thread-controlling mechanism for sewing-machines. No. 1,339,733; May 11; v. 274; p. 278.
Allen, Edward B., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Buttonhole-sewing machine. No. 1,344,748; June 29; v. 275; p. 862.
Allen, Edward B., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Buttonhole-sewing machine. No. 1,346,102; July 13; v. 276; p. 215.
Allen, Edward B., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Mechanism for clipping holes in sheet material. No. 1,347,486; July 27; v. 276; p. 603.
Allen, Edward B., Newtown, Conn., assignor to The Singer Manufacturing Company. Tension-controlling mechanism for sewing-machines. No. 1,346,103; July 13; v. 276; p. 215.
Allen, Edward B., Newton, Conn., assignor to The Singer Manufacturing Company. Buttonhole cutting and stitching machine. No. 1,360,704; Nov. 30; v. 280; p. 905.
Allen, Edwin W., and E. Taylor, assignors to General Electric Company, Chicago, Ill. Electric system of distribution and operating the same. No. 1,362,588; Dec. 21; v. 281; p. 417.
Allen, Elizabeth R., *et al.*, executors. (See Allen, Samuel L.)
Allen, Ernest C. (See Barnes, F. W., and Allen.)
Allen Filter Company, The. (See Shull, Leo W., assignor.)
Allen, Frank B. (See Sherman, M. C., and Allen.)
Allen, Frank E., Port Huron, Mich. Tire structure. No. 1,329,819; Feb. 3; v. 271; p. 89.
Allen, Frank E., Penokee, Kans. Automobile direction-indicator. No. 1,332,094; Feb. 24; v. 271; p. 636.
Allen, Frederick B., assignor to Forsythe Mfg. Co., Joplin, Mo. Trailer. No. 1,338,546; Apr. 27; v. 273; p. 742.
Allen & Garcia Company. (See Cross, Archibald, assignor.)
Allen, George W., assignor to B. F. Sturtevant Company, Boston, Mass. Pneumatic cleaner. No. 1,326,901; Jan. 6; v. 270; p. 8.
Allen, Guy L., assignor of one-half to J. G. Clark, Boulder, Colo. Vibratory movement. No. 1,348,770; Aug. 3; v. 277; p. 123.
Allen, Herbert, Somerset, Ohio. Disintegrating-machine. No. 1,340,201; May 18; v. 274; p. 424.
Allen, Herbert I., assignor to Electron Chemical Company, Portland Me. Electrolytic cell. No. 1,355,116; Oct. 12; v. 279; p. 185.
Allen, Herbert I., and K. R. Fox, assignors to Electron Chemical Company, Portland, Me. Electrolytic cell. No. 1,349,597; Aug. 17; v. 277; p. 411.
Allen Hosiery Company. (See Longtin, William J., assignor.)
Allen, Howard G., Albion, N. Y. Spring-motor. No. 1,351,727; Sept. 7; v. 278; p. 3.
Allen, James A, assignor of one-half to B. F. Briggs, Providence, R. I. Printing-press. No. 1,337,186; Apr. 20; v. 273; p. 416.
Allen, James M. (See Johnson, C. G., and Allen.)
Allen, James M., *et al.*, trustees. (See Allen, J. M., Smith, and Tucker.)
Allen, James M., assignor to J. M. Allen, F. P. Smith, and F. D. Tucker, trustees, St. Louis, Mo. Electrode for secondary or storage batteries. No. 1,347,832; July 27; v. 276; p. 672.
Allen, John D. (See Chandler, Lee, assignor.)
Allen, John E., Pittsburgh, Okla. Check-book. No. 1,336,804; Apr. 13; v. 278; p. 268.
Allen, John V., Providence, R. I. Thread-lock for hand-threading loom-shuttles. No. 1,336,805; Apr. 13; v. 273; p. 269.
Allen, Joseph C., *et al.* (See Cox, A., and Evans.)
Allen, Lewis H., West Springfield, Mass. Sterilizing device. No. 1,348,837; Aug. 10; v. 277; p. 189.
Allen, Lewis H., West Springfield, Mass. Safety-razor. No. 1,351,826; Sept. 7; v. 278; p. 22.
Allen, M. J. K., *et al.* (See Coulter, Hugh A., assignor.)
Allen, Marion, *et al.* (See Davis, Claude B., assignor.)
Allen, Mary F., executrix. (See Allen, William P.)
Allen, Newton, Lyons, Oreg. Saw-gage. No. 1,345,339; July 6; v. 276; p. 3.
Allen, Presley R. (See Goben, Edward F., assignor.)
Allen, Ralph, Shelton, assignor to The Acme Tool & Machine Co., Derby, Conn. Carpenter's plane. No. 1,361,433; Dec. 7; v. 281; p. 91.
Allen, Robert, Caversham, England. Piston or piston-valve. No. 1,335,951; Apr. 6; v. 273; p. 46.
Allen, Robert, Caversham, England. Gun-mounting for use on aircraft. No. 1,348,072; July 27; v. 276; p. 721.
Allen, Rodney D., assignor to B. L. Johnson, Philadelphia, Pa. Record-holding cabinet for talking-machines. No. 1,337,812; Apr. 20; v. 273; p. 534.
Allen, Russell G., Toledo, Ohio. Receptacle-stopper. No. 1,337,182; Apr. 20; v. 273; p. 415.
Allen, S. L., & Co. (See Allen, Charles J., assignor.)
Allen, S. L. & Co., Inc. (See Bowen, James M., assignor.)
Allen, Samuel E., Martin, S. D. Direction-signal. No. 1,357,433; Nov. 2; v. 280; p. 44.
Allen, Samuel L., deceased, Moorestown, N. J.; S. H. Allen, C. J. Allen, E. R. Allen, S. J. Allen, and E. A. Elfreth, executors. Seed-sowing device. No. 1,330,367; Feb. 10; v. 271; p. 222.
Allen, Samuel L., deceased, Moorestown, N. J.; S. H. Allen, C. J. Allen, E. R. Allen, S. J. Allen, and E. A. Elfreth, executors. Agricultural implement. No. 1,338,273; Apr. 27; v. 273; p. 691.
Allen, Samuel L., deceased, Moorestown, N. J.; S. H. Allen, C. J. Allen, E. R. Allen, S. J. Allen, and E. A. Elfreth, executors. Nutcracker. No. 1,351,983; Sept. 7; v. 278; p. 54.
Allen, Samuel L., deceased, Moorestown, N. J. S. H. Allen, C. J. Allen, E. R. Allen, S. J. Allen, and E. A. Elfreth, executors. Agricultural implement. No. 1,351,984; Sept. 7; v. 278; p. 54.
Allen, Sarah H., *et al.*, executors. (See Allen, Samuel L.)
Allen, Scott E., *et al.* (See Hoyt, Jennie A., assignor.)
Allen, Scott E., *et al.* (See Hoyt, Royal E., assignor.)
Allen, Scott E., *et al.* (See Lewis, Jesse D., assignor.)
Allen, Susan J., *et al.*, executors. (See Allen, Samuel L.)
Allen, Vero M., Cantley, England, assignor to Westinghouse Electric & Manufacturing Company. Commutator-cylinder. No. 1,358,691; Nov. 16; v. 280; p. 397.
Allen, Victor M., Waverly, N. Y. Ventilating window-shade. No. 1,329,352; Feb. 3; v. 271; p. 3.
Allen, Victor M., Waverly, N. Y. Automatic window-ventilator. No. 1,335,929; Apr. 6; v. 273; p. 42.
Allen, Victor M., Shinglehouse, Pa. Combined ventilator and shade. No. 1,346,800; July 13; v. 276; p. 354.

Digitized by Google

Allen, Walter S., assignor to Detroit Steel Casting Company, Detroit, Mich. Cast vehicle-wheel. No. 1,353,819; Sept. 28; v. 278; p. 551.
Allen, Will C. (See Funk, Marion P., assignor.)
Allen, William H., Detroit, Mich. Rust preventing and arresting solution. No. 1,329,573; Feb. 3; v. 271; p. 43.
Allen, William H., Detroit, Mich. Tanned sponge. No. 1,336,806; Apr. 13; v. 273; p. 269.
Allen, William H., Detroit, Mich. Rust-proofing compound. No. 1,341,100; May 25; v. 274; p. 666.
Allen, William M., assignor of one-fourth to Richard B. Runke, Merrill, Wis. Spring-winding mechanism for phonographs. No. 1,351,938; Sept. 7; v. 278; p. 45.
Allen, William P., deceased, Chicago, Ill.; M. F. Allen, executrix. Dirigible tractor. No. 1,340,514; May 18; v. 274; p. 483.
Allend, Joseph, Philadelphia, Pa. Vehicle-tire. No. 1,343,540; June 15; v. 275; p. 494.
Allender, Charles W. G., assignor of one-fourth to L. C. Rasel, Washington, Pa. Button. No. 1,341,771; June 1; v. 275; p. 32.
Alles, Fred W., A. Fletcher, and G. E. Hitchens, McKeesport, Pa. Gas-burner for drying ladles. No. 1,342,932; June 8; v. 275; p. 312.
Allesina, John, Portland, Oreg. Umbrella. No. 1,329,219; Jan. 27; v. 270; p. 566.
Alling, William T. (See Deakins G. C., and Harker, assignors.)
Allingham Flotation Machine Company. (See Allingham, John, assignor.)
Allingham, John, assignor to Allingham Flotation Machine Company, Los Angeles, Calif. Flotation-machine. No. 1,357,021; Nov. 2; v. 280; p. 137.
Allinson, John J., Bartlesville, Okla. Storage-reservoir. No. 1,360,170; Nov. 23; v. 280; p. 732.
Allis-Chalmers Manufacturing Company. (See Albrecht, George M., assignor.)
Allis-Chalmers Manufacturing Company. (See Alinder, Henry, assignor.)
Allis-Chalmers Manufacturing Company. (See Cheney, Herbert W., assignor.)
Allis-Chalmers Manufacturing Company. (See De Wein, George F., assignor.)
Allis-Chalmers Manufacturing Company. (See Flory, Curtis B., assignor.)
Allis-Chalmers Manufacturing Company. (See Hagmaier, William G., assignor.)
Allis-Chalmers Manufacturing Company. (See Hasendahl, Walter, assignor.)
Allis-Chalmers Manufacturing Company. (See Mortensen, Soren H., assignor.)
Allis-Chalmers Manufacturing Company. (See Newhouse, Ray C., assignor.)
Allis-Chalmers Manufacturing Company. (See Nicht, Alexander J., Jr., assignor.)
Allis-Chalmers Manufacturing Company. (See Patitz, Johann F. M., assignor.)
Allis-Chalmers Manufacturing Company. (See Pfau, Arnold, assignor.)
Allis-Chalmers Manufacturing Company. (See Tomlinson, Clifford J., assignor.)
Allis-Chalmers Manufacturing Company. (See Trout, William H., assignor.)
Allis-Chalmers Manufacturing Company. (See Van Zandt, Paul C., assignor.)
Allis-Chalmers Manufacturing Company. (See Wilkinson, Nathan, assignor.)
Allis-Chalmers Manufacturing Company. (See Williamson, Robert B., assignor.)
Allis-Chalmers Manufacturing Company. (See Wilson, James, assignor.)
Allis-Chalmers Mfg. Company. (See Baudisch, Hans, assignor.)
Allis, Dexter W., Whitman, assignor to A. M. Brewster, Boston, Mass. Phonograph driving mechanism. No. 1,335,809; Apr. 6; v. 273; p. 20.
Allis, Hannora E., administratrix. (See Allis, Thomas V.)
Allis, Thomas V., deceased, Pittsburgh, Pa.; H. E. Allis, administratrix. Pair-heating-furnace hearth. No. 1,334,207; Mar. 16, v. 272; p. 496.
Allison, Carl F., Woodlawn, Pa. Solder composition. No. 1,349,648; Aug. 17; v. 277; p. 421.
Allison, Frank R., Olean, N. Y. Lifting device for glass battey-jars. No. 1,359,649; Nov. 23; v. 280; p. 628.
Allison, George B., Los Angeles, Calif. Rotary fan. No. 1,356,508; Oct. 26; v. 279; p. 545.
Allison, James A., *et al.* (See Angus, Donald J., assignor.)
Allison, James A., *et al.* (See Kramer, Benjamin G., assignor.)
Allison, Jesse H., assignor of one-half to L. G. Hadley, El Paso, Tex. Packing-gasket. No. 1,359,142; Nov. 16; v. 280; p. 483.
Allison, Joseph K., Iowa Falls, Iowa. Pneumatic necktie. No. 1,347,359; July 20; v. 276; p. 522.
Allison, Lawrence E., Modesto, Calif. Loose-leaf-binder extension. No. 1,344,971; June 29; v. 275; p. 903.
Allison, Mathew A., Canebrake, W. Va. Clamp-terminal. No. 1,361,806; Dec. 14; v. 281; p. 212.
Allison, Otho G., *et al.* (See Link, William, assignor.)
Allison, Philip W. (See Sprague, F. D., and Allison.)
Allison, Sarah K., Macomb, Ill. Culinary utensil. No. 1,332,019; Feb. 24; v. 271; p. 622.
Allith Prouty Company. (See Rhines, George, assignor.)
Allman, David W., Toronto, Ontario, Canada. Gas water-heater. No. 1,336,937; Apr. 13; v. 273; p. 294.
Allman, William H., Blythedale, Mo. Flying-machine. No. 1,327,514; Jan. 6; v. 270; p. 118.
Allmand, John T., Highland Park, assignor to Ternstedt Manufacturing Co., Detroit, Mich. Antirattler or bumper. No. 1,356,685; Oct. 26; v. 279; p. 579.
Allport, Henry W., U. S. Army. Aseptic package for surgical dressings. No. 1,356,331; Oct. 19; v. 279; p. 463.
Allsop, Thomas, and W. W. Sibson, assignors to The Philadelphia Drying Machinery Company, Philadelphia, Pa. Drying apparatus. No. 1,355,117; Oct. 12; v. 279; p. 188.
Allsop, Thomas, and W. W. Sibson, assignors to The Philadelphia Drying Machinery Company, Philadelphia, Pa. Drying-machine. No. 1,360,705; Nov. 30; v. 280; p. 905.
Allsteelequip Company, The. (See Erickson, Axel F., assignor.)
Allsworth, Robert I., New York, N. Y. Wall construction. No. 1,350,633; Aug. 24; v. 277; p. 659.
Allyn, Glenn H., Madison Lake, Minn. Road-drag. No. 1,347,485; July 27; v. 276; p. 603.
Allyn, Robert S., trustee. (See Clark, Norris E., assignor.)
Allyne, Edmund E., assignor to The Aluminum Castings Company, Cleveland, Ohio. Composite piston. No. 1,329,820; Feb. 3; v. 271; p. 89.
Allyne, Edmund E., assignor to The Aluminum Castings Company, Cleveland, Ohio. Internal-combustion motor. No. 1,347,475; July 20; v. 276; p. 544.
Allyne, Edmund E., assignor to The Aluminum Castings Company, Cleveland, Ohio. Making cylinders for internal-combustion engines. No. 1,347,476; July 20; v. 276; p. 544.
Allyne, Edmund E., Cleveland, Ohio, and J. W. Collins, Detroit, Mich., assignors to The Aluminum Castings Company, Cleveland, Ohio. Motor-cylinder and making same. No. 1,347,477; July 20; v. 276; p. 544.
Alma Manufacturing Company. (See Kerngood, Allen H., assignor.)
Almagia, Leone, Cornigliano Ligure, and E. Guerreschi, Sampierdarena, assignors to Società Anonima Italiana Gio. Ansaldo & C., Cornigliano Ligure, Italy. Electric furnace. No. 1,336,807; Apr. 13; v. 273; p. 269.
Almetal Manufacturing Company, The. (See Nunn, Nevvens N., assignor.)
Almeter, Lewis L. (See Lemke, A. C., and Almeter.)
Almion Engineering & Contracting Company *et al.* (See Sullivan, D. C., Hawkins, and MacMillan, assignors.)
Almond, T. R., Manufacturing Company. (See Hubbell, Henry S., assignor.)
Almquist, Carl W. (See Paulson, J. E., and Almquist.)
Almstead, Raymond P., assignor to Taylor-Shantz Company, Rochester, N. Y. Reel or spool. No. 1,361,802; Dec. 14; v. 281; p. 211.
Almy, Marie P., Brooklyn, N. Y. Portable screen. No. 1,348,073; July 27; v. 276; p. 721.
Alnutt, Lawrence L., Chattanooga, Tenn. Musical-instrument-string retoner. No. 1,353,135; Sept. 21; v. 278; p. 373.
Alpe, Harold J. (See Taylor, C. H., and Alpe.)
Alpen, Henry, Hempstead, N. Y. Holder attachment for ladders. No. 1,328,705; Jan. 20; v. 270; p. 440.
Alper, Samuel, *et al.* (See Silverman, Wulf, assignor.)
Alpern, Maxwell, assignor to American Engineering Company, Philadelphia, Pa. Stoker. No. 1,328,611; Jan. 20; v. 270; p. 423.
Alpern, Maxwell, assignor to American Engineering Company, Philadelphia, Pa. Air-back for stokers. No. 1,343,702; June 15; v. 275; p. 526.
Alpert, Ned and D. Goldin, Sedalia, Mo. Adjustable bookmark. No. 1,355,025; Oct. 5; v. 279; p. 114.
Alphaero Engines (Foreign Patents.) (See Alston, Charles H. T., assignor.)
Alphaero Engines (Foreign Patents). (See Houston, Percival T., assignor.)
Alphin, Gilbert E., Norwood, N. C. Curtain-rod and shade-roller support. No. 1,345,340; July 6; v. 276; p. 3.
Alphy, Harry, *et al.* (See Tullis, John T., assignor.)
Alquist, Karl, Schenectady, N. Y. Gearing. No. 1,334,008; Mar. 16; v. 272; p. 459.
Alquist, Karl, Schenectady, N. Y. Gearing. No. 1,351,317; Aug. 31; v. 277; p. 854.
Alquist, Karl, Schenectady, N. Y. Gearing. No. 1,351,318; Aug. 31; v. 277; p. 855.
Alquist, Karl, Schenectady, N. Y. Gearing for double-rotation turbines. No. 1,351,319; Aug. 31; v. 277; p. 855.
Alquist, Karl, Schenectady, N. Y. Gearing. No. 1,351,320; Aug. 31; v. 277; p. 855.
Alquist, Karl, Schenectady, N. Y. Gearing. No. 1,351,321; Aug. 31; v. 277; p. 855.
Alquist, Karl, Schenectady, N. Y. Gearing. No. 1,351,322; Aug. 31; v. 277; p. 855.
Alquist, Karl, Schenectady, N. Y. Gearing. No. 1,357,674; Nov. 2; v. 280; p. 89.
Alsatian Machine Company. (See Tunstall, Harry, assignor.)
Alsberg, Julius, Chicago, Ill. Starting device for burners. No. 1,337,498; Apr. 20; v. 273; p. 474.

Digitized by Google

Alphabetical list of patentees—Continued.

Alseth, Stengrim, assignor of one-third to H. P. Akon, and one-third to R. Strom, Asakis, Minn. Carousel. No. 1,360,071; Nov. 23; v. 280; p. 712.
Alsina, Vicente C., and G. Fernandez, Buenos Aires, Argentina. Preserving manufactured or leaf tobacco. No. 1,352,421; Sept. 14; v. 278; p. 171.
Alstad, George C., Chicago, Ill. Compressed-air power-drive. No. 1,349,036; Aug. 10; v. 277; p. 227.
Alsten, Alfred O. (See Johnson, A. L., and Alsten.)
Alsten, Alfred O., Worcester, Mass. Pneumatic vulcanizing-core. No. 1,327,264; Jan. 6; v. 270; p. 72.
Alsten, Alfred O., assignor of one-third to F. A. Sanderson and one-third to A. L. Johnson, Worcester, Mass. Jack. No. 1,349,801; Aug. 17; v. 277; p. 451.
Alsten, John A., *et al.* (See Johnson, A. L., and Alsten, assignors.)
Alston, Charles H. T., Stirling, Scotland, assignor to Alphaero Engines (Foreign Patents) Limited, London, England. Internal-combustion engine. No. 1,335,952; Apr. 6; v. 273; p. 47.
Alston, Charles H. T., Stirling, Scotland, assignor to Alphaero Engines (Foreign Patents) Limited, London, England. Internal-combustion engine. No. 1,342,146; June 1; v. 275; p. 105.
Alston Saw & Steel Company, The. (See Pittman, Reinhart W., assignor.)
Alston, Walter M., Pittsburgh, Pa., assignor to The Baker-Dunbar Allen Company, Cleveland, Ohio. Concrete stack. No. 1,344,608; June 29; v. 275; p. 835.
Alsup, J. T., *et al.* (See Johnson, Albert S., assignor.)
Altaffer, John F., Aline, Okla. Rail-tie. No. 1,349,310; Aug. 10; v. 277; p. 282.
Altenberg, George P., assignor to The Icy-Hot Bottle Company, Cincinnati, Ohio. Cup and releasable handle therefor. No. 1,338,480; Apr. 27; v. 273; p. 730.
Altenberg, George P., assignor to The Icy-Hot Bottle Company, Cincinnati, Ohio. Heat-insulated vessel and casing therefor. No. 1,353,305; Sept. 21; v. 278; p. 405.
Altenberg, George P., assignor to The Icy-Hot Bottle Company, Cincinnati, Ohio. Casing for frangible vessels and cups therefor. No. 1,354,711; Oct. 5; v. 279; p. 53.
Altenberg, George P., assignor to The Icy-Hot Bottle Company, Cincinnati, Ohio. Vacuum-insulated bottle and cups therefor. No. 1,354,712; Oct. 5; v. 279; p. 53.
Altenberg, George P., assignor to The Icy-Hot Bottle Company, Cincinnati, Ohio. Vessel. No. 1,362,831; Dec. 21; v. 281; p. 465.
Altenburg, Eric P., Columbiana, Ohio. Pneumatic tire. No. 1,337,813; Apr. 20; v. 273; p. 534.
Alter, John H., Conneaut, Ohio. Power-operated reversing-gear. No. 1,339,939; May 11; v. 274; p. 317.
Althouse, Charles S., Reading, Pa. Dyeing. No. 1,349,867; Aug. 17; v. 277; p. 464.
Altick, Harold K., Dayton, Ohio. Automatic gear-shift for automobiles. No. 1,346,151; July 13; v. 276; p. 224.
Altland, Paul P., Rochester, N. H. Runner. No. 1,345,307; June 29; v. 275; p. 969.
Altman, Alexander, assignor, by mesne assignments, to The Torrington Company, Torrington, Conn. Needle-straightening machine. No. 1,361,513; Dec. 7; v. 281; p. 108.
Altman, Alexander, assignor, by mesne assignments, to The Torrington Company, Torrington, Conn. Needle-straightening machine. No. 1,361,514; Dec. 7; v. 281; p. 108.
Altman, Alexander, assignor to The Torrington Company, Torrington, Conn. Needle-straightening machine. No. 1,361,515; Dec. 7; v. 281; p. 109.
Altman, Harvey P., Findlay, Ohio. Auxiliary spark-gap. No. 1,346,522; July 13; v. 276; p. 297.
Altman, Samuel, and J. Grossman, New York, N. Y. Washboard. No. 1,331,890; Feb. 24; v. 271; p. 598.
Altmann, Jakob, Weesen, Switzerland. Machine for truing loom-shuttles. No. 1,327,515; Jan. 6; v. 270; p. 119.
Altmayer, Hugo. (See Adams, H. T., and Altmayer.)
Alton, Byron. (See Newton, Harrie L., assignor.)
Alton, James T., *et al.* (See Barnes, John S., assignor.)
Alton, William H., New York, N. Y. and A. C. Battelle, assignors, by mesne assignments, to A. C. Battelle, Chicago, Ill. Filler. No. 1,350,694; Aug. 24; v. 277; p. 671.
Altpeter, Oscar, Milwaukee, Wis. Machine for making composite shingles. No. 1,352,931; Sept. 14; v. 278; p. 273.
Altschul, Benjamin, assignor to Triangle Ring Mfg. Company, Newark, N. J. Finger-rings and making same. No. 1,330,617; Feb. 10; v. 271; p. 269.
Altvater, Herbert G., Denver, Colo. Variable-speed-transmission mechanism. No. 1,337,578; Apr. 20; v. 273; p. 489.
Altwegg, Jean, and J. Landrivon, Lyon, France, assignors to Societe Chimique Des Usines Du Rhone (anciennement Gilliard, P. Monnet et Cartier), Paris, France. Beta-halogen-ethylaminobenzoic esters and their derivatives. No. 1,334,641; Mar. 23; v. 272; p. 624.
Altwegg, Jean, and J. Landrivon, Lyon, France, assignors to Societe Chimique Des Usines Du Rhone (anciennement Gilliard P. Monnet et Cartier), Paris, France. B-Alkylamino ethylaminobenzoic alkyl esters and their derivatives. No. 1,334,642; Mar. 23; v. 272; p. 624.
Altwein, Oscar R., Asheville, N. C. Comb. No. 1,362,460; Dec. 14; v. 281; p. 341.
Aluminum Castings Company, The. (See Allyne, E. E., and Collins, assignors.)
Aluminum Castings Company, The. (See Allyne, Edmund E., assignor.)
Aluminum Castings Company, The. (See Bamberg, Joseph H., assignor.)
Aluminum Castings Company, The. (See Diamond, James E., assignor.)
Aluminum Castings Company, The. (See Jeffries, Z., and Gibson, assignors.)
Aluminum Castings Company, The. (See Jeffries, Zay, assignor.)
Aluminum Castings Company, The. (See Parkhurst, Frederic A., assignor.)
Aluminum Castings Company, The. (See Stay, Theron D., assignor.)
Aluminum Company of America. (See Bakken, Herman E., assignor.)
Aluminum Company of America. (See Broadwell, Bartley E., assignor.)
Aluminum Company of America. (See Doerschuk, Victor C., assignor.)
Aluminum Company of America. (See Frary, Francis C., assignor.)
Aluminum Solder Co., The (See de St. Laurent, Eugene E. P. J. P. S. J., assignor.)
Alva Carpet & Rug Company. (See Fromuth, August G., assignor.)
Alvarez y Valdés, Manuel, Habana, Cuba. Containing device. No. 1,357,304; Nov. 2; v. 280; p. 20.
Alvey, John M. (See Da Costa, James S., assignor.)
Alvin Electrical Products Company. (See Olevin, Adolph, assignor.)
Alvis, Gordon. (See Thomson, R. A., and Alvis.)
Alvo, Florencio. (See Butty, C., and Alvo.)
Alvord, Arthur M., New Rochelle, assignor to Alvord and Swift, New York, N. Y. Thawing material in cars. No. 1,357,305; Nov. 2; v. 280; p. 20.
Alvord and Swift. (See Alvord, Arthur M., assignor.)
Amadio, Harry H., Redfern, near Sydney, New South Wales, Australia. Foot for crutches, walking-sticks, ladders, and the like. No. 1,348,531; Aug. 3; v. 277; p. 78.
Aman, Jacob, Talmadge township, Ottawa county, Mich. Bean or weed cutter. No. 1,337,499; Apr. 20; v. 273; p. 475.
Ambler, Sam, Bradford, England. Doffing mechanism for spinning-frames. No. 1,339,803; May 11; v. 274; p. 291.
Ambrose, Harry T. (See Walter, Edward C., assignor.)
Ambrose, Henry W. (See Ambrose, Jennings G. and H. W.)
Ambrose, Jennings G. and H. W., San Diego, Calif. Sprinkler. No. 1,335,267; Mar. 30; v. 272; p. 802.
Ambrose, Nicholas, *et al.* (See Johnston, James A., assignor.)
Ambrose, Robert L., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Mounting for drills. No. 1,345,731; July 6; v. 276; p. 79.
Ambrose, Thomas P., Cincinnati, Ohio. Match-box holder. No. 1,331,321; Feb. 17; v. 271; p. 453.
Ambrus, Vendel, Milwaukee, Wis. Water-gate. No. 1,354,869; Oct. 5; v. 279; p. 84.
Ambruster, Cornelius, Roslyn, Pa. Storage-battery electrode or plate. No. 1,354,086; Sept. 28; v. 278; p. 606.
Ambruster, Joseph, Freeport, Ill. Sterilizer. No. 1,354,792; Oct. 5; v. 279; p. 69.
Ambursen, Nils F., Newton, assignor to The Uni-Form Company, Boston, Mass. Concrete floor. No. 1,334,729; Mar. 23; v. 272; p. 640.
Ambursen, Nils F., Pittsburgh, Pa., assignor to Uni-Form Company. Mold-panel. No. 1,339,912; May 11; v. 274; p. 312.
Amdursky, Samuel S. (See Steinmetz, Robert, assignor.)
Amdursky, Samuel S., Rochester, N. Y. Furnace. No. 1,330,227; Feb. 10; v. 271; p. 197.
Ameele, Abram, Walworth, N. Y. Onion-weeder. No. 1,332,095; Feb. 24; v. 271; p. 636.
Ament, Elizabeth, Brooklyn, N. Y. Condiment-holder. No. 1,342,524; June 8; v. 275; p. 231.
American Abrasive Metals Co. (See Bartholomew, George P., assignor.)
American Abrasive Metals Co. (See Sayre, William H., assignor.)
American Abrasive Metals Company. (See Folin, Caius V., assignor.)
American Arch Company. (See Anthony, J. T., and Bean, assignors.)
American Arch Company. (See Willett, Alfred H., assignor.)
American Art Needle Company. (See Pade, G. V., and Neitzel, assignors.) (Reissue.)
American Auto Alarm, The. (See Morgan, Lewis H., assignor.)
American Automatic Connector Company, The. (See Barber, Martin A., assignor.)
American Automatic Products Corporation. (See Woodward, Garrett W., assignor.)
American Balso Company. (See Randett, David L., assignor.)
American Balsa Company. (See Welin, Axel, assignor.)

Digitized by Google

Alphabetical list of patentees—Continued.

American Bank Note Company. (See Marquardt, Frank C., assignor.)
American Bank Note Company. (See Smith, Amos H., assignor.)
American Bar Lock Company. (See Law, Charles H., assignor.)
American Blower Company. (See Cunliffe, Cicero M., assignor.)
American Blower Company. (See Szekely, Ernest, assignor.)
American Bosch Magneto Corporation. (See Honold and Krauss, assignors.)
American Bosch Magneto Corporation. (See Kasenmaier, August, assignor.)
American Bosch Magneto Corporation. (See Krauss, Adolf, assignor.)
American Bosch Magneto Corporation. (See Norman, Frederick D., assignor.)
American Bosch Magneto Corporation. (See Rosenthal, Leon W., assignor.)
American Bosch Magneto Corporation. (See Schäfer, Max, assignor.)
American Bosch Magneto Corporation. (See Schwarzmann, Wolfgang, E., assignor.)
American Bosch Magneto Corporation. (See Schwarzmann, W. E., and Normal, assignors.)
American Bosch Magneto Corporation. (See Tost, Max.)
American Brake Company, The. (See Burton, Thomas L., assignor.)
American Brake Company, The. (See Schwentler, Francis E., assignor.)
American Brake Company, The. (See Wahlert, Henry A., assignor.)
American Brake Shoe and Foundry Company, The. (See Sargent, Fitz William, assignor.)
American Brass Company, The. (See Beardsley, Edwin W., assignor.)
American Brass Company, The. (See Coe, James R., assignor.)
American Briquet Company. (See Plummer, Robert S., assignor.)
American Bromine Company. (See Tobler, Henri, assignor.)
American Button & Fastener Company. (See Elliott, William E., assignor.)
American Can Company. (See Acker, Nicholas A., assignor.)
American Can Company. (See Andrews, Edward E., assignor.)
American Can Company. (See Augensen, August M., assignor.)
American Can Company. (See Ayres, William H., assignor.)
American Can Company. (See Baker, Herbert A., assignor.)
American Can Company. (See Bryant and Stinchfield, assignors.)
American Can Company. (See Dister, Joseph, assignor.)
American Can Company. (See Doyle, J., and Kenny, assignors.)
American Can Company. (See Dun Lany, William P., assignor.)
American Can Company. (See Eberhart, Felix, assignor.)
American Can Company. (See Fleischer, Paul W., assignor.)
American Can Company. (See Forry, Charles E., assignor.)
American Can Company. (See Foss, Fred G., assignor.)
American Can Company. (See Freundt, Louis J., assignor.)
American Can Company. (See Graham, Charles W., assignor.)
American Can Company. (See Gray, James A., assignor.)
American Can Company. (See Halloway, William M., assignor.)
American Can Company. (See Harbeck, Jervis R., assignor.)
American Can Company. (See Hathersall, John M., assignor.)
American Can Company. (See Hodgson, John G., assignor.)
American Can Company. (See Holloway, William M., assignor.)
American Can Company. (See Johnson, Axel, assignor.)
American Can Company. (See Jones, Harry W., assignor.)
American Can Company. (See Kenny, William J., assignor.)
American Can Company. (See Klingman, Louis, assignor.)
American Can Company. (See Levander, Swan N., assignor.)
American Can Company. (See Nowack, Charles H., assignor.)
American Can Company. (See O'Donnell, Harry P., assignor.)
American Can Company. (See Odquist, Victor, assignor.)
American Can Company. (See Rudolphi, Frank, assignor.)
American Can Company. (See Stewart, Thomas H., assignor.)
American Can Company. (See Symonds, Clarence M., assignor.)
American Can Company. (See Taylor, William E., assignor.)
American Can Company. (See Tevander, Swan N., assignor.)
American Can Company. (See Thornburgh, Ivan D., assignor.)
American Can Company. (See Wheelwright, George W., assignor.)
American Can Company. (See Widell, Magnus E., assignor.)
American Can Company. (See Wood, Frederick P., assignor.)
American Car Company. (See Nowack, Charles H., assignor.)
American Car Company. (See Schechter, Bernard, assignor.)
American Car and Foundry Company. (See Amundsen, Godfrey B., assignor.)
American Car and Foundry Company. (See Anchincloss, William K., assignor.)
American Car and Foundry Company. (See Bates, Richard A., assignor.)
American Car and Foundry Company. (See Beimdiek, August F., assignor.)
American Car and Foundry Company. (See Girton, Albert R., assignor.)
American Car and Foundry Company. (See Joy, Robert W., assignor.)
American Car and Foundry Company. (See Litchfield, Norman, assignor.)
American Car and Foundry Company. (See Ostrander, Allen E., assignor.)
American Car and Foundry Company. (See Seiler, John D., assignor.)
American Car and Foundry Company. (See Steinmeyer, John W., assignor.)
American Car and Foundry Company. (See Wolff, Herbert W., assignor.)
American Car Sprinkler Co. (See Perry, Earl D., assignor.)
American Casting and Manufacturing Corporation. (See Dietze, Emil, assignor.)
American Cellone Company. (See Eichengrün, Arthur, assignor.)
American Cellulose and Chemical Manufacturing Company. (See Miles, George W., assignor.)
American Cement Tile Manufacturing Company. (See Freund, Jacob de S., assignor.)
American Chain Company. (See Pye, Robert E., assignor.)
American Chain Company. (See Reyburn, John R., assignor.)
American Chicle Company. (See Stranders, Julien, assignor.)
American Clay Machinery Company, The. (See Brown, Davis, assignor.)
American Clearing Company, The. (See Barber, Harry E., assignor.)
American Coke & Chemical Company. (See Roberts, Arthur, assignor.)
American Coke & Chemical Company. (See Sanford, Louis A., assignor.)
American Concrete Forms Company. (See Belt, W. M., and Smith, assignors.)
American Conduit Company. (See Freeman, Robert F., assignor.)
American Conservation Service Corporation. (See Heath, Wilfred P., assignor.)
American Cotton Oil Company, The. (See Boyce, James, assignor.)
American Cyanamid Co. (See Cox, George E., assignor.)
American Cyanamid Company. (See Buchanan, Guy H., assignor.)
American Cyanamid Company. (See Landis, Walter S., assignor.)
American Cyanamid Company. (See Washburn, Frank S., assignor.)
American District Telegraph Company. (See Hopkins, Richard M., assignor.)
American Dressler Tunnel Kilns. (See Dressler, Philip, assignor.)
American Dressler Tunnel Kilns. (See Dressler, Philip D., assignor.)
American Dressler Tunnel Kilns. (See Dressler, Philip d'H., assignor.)
American Dressler Tunnel Kilns. (See Meehan, Paul A., assignor.)
American Dressler Tunnel Kilns. (See Swinnerton, Bertram B., assignor.)
American Dressler Tunnel Kilns, Inc. (See Brain, George, assignor.)
American Drying Processes. (See Lissauer, A. W. Fleisher, and Keyes, assignors.)
American Electric Tool Company. (See Paulero, Louis, assignor.)
American Electrical Heater Company. (See Kuhn, F., and Hand, assignors.)
American Electrical Heater Company. (See Kuhn, F. and Thomas, assignors.)
American Electrical Heater Company. (See Kuhn, F., Thomas, and Spiess, assignors.)
American Elementary Electric Company. (See Engle George S., assignor.)

Digitized by Google

Alphabetical list of patentees—Continued.

American Engineering Company. (See Alpern, Maxwell, assignor.)
American Equipment Company, The. (See Brown, Davis, assignor.)
American Fabrics Company, The. (See Tuck, Eugen, assignor.)
American Fire Prevention Bureau. (See Derby, J. H., and Clayton, assignors.)
American Fixture Dealers Syndicate. (See Knapp, William, assignor.)
American Flange Frog and Railway Improvement Company, The. (See Einstein, Robert E., assignor.)
American Flax Fibre and Linen Corporation. (See Robinson, William J., assignor.)
American Flexible Bolt Company. (See Frauenheim, Joseph A., assignor.)
American Fluid Company. (See Drinkwater, Frank L., assignor.)
American Fork and Hoe Company, The. (See Cowdery, Warren H., assignor.)
American Gas Company of New Jersey, The. (See Warner, Arthur W., assignor.)
American Grain Deodorising Co. (See Moore, Payton J. H., assignor.)
American Guaranteed Tooth Company. (See Myerson, Simon, assignor.)
American Hard Rubber Co. (See Bertschinger, Edward, assignor.)
American Hard Rubber Co. (See Reardon, James, assignor.)
American Hardware Corporation, The. (See Stone, E. B., and Johnson, assignors.)
American Hardware Corporation, The. (See Stone, Elmer B., assignor.)
American Hardware Corporation, The. (See Svenson, Charles W., assignor.)
American Hardware Corporation, The. (See Teich, Ernest L., assignor.)
American Hardware Corporation, The. (See Wright, Harry A., assignor.)
American Hoist & Derrick Co. (See Brink, Harry L., assignor.)
American Hoist & Derrick Co. (See Crosby, Oliver, assignor.)
American Ironing Machine Company. (See Neller, Albert H., assignor.)
American Kron Scale Company. (See Barrett, Joseph C., assignor.)
American Lacing Hook Co. (See Havener, Arthur R., assignor.)
American Lacing Hook Co. (See Rhodes, Austin D., assignor.)
American La France Fire Engine Co. (See Knoblock, James W., assignor.)
American La France Fire Engine Company. (See Hawley, William G., assignors.)
American Laundry Machinery Co. (See Binder, Gottlob, assignor.)
American Laundry Machinery Company, The. (See Andrée, William E., assignor.)
American Laundry Machinery Company, The. (See Benjamin, Dana H., assignor.)
American Laundry Machinery Company, The. (See Braley, C. L., and Waream, assignors.)
American Laundry Machinery Company, The. (See Carroll, Emil J., assignor.)
American Laundry Machinery Company. (See Cooper, Daniel M., assignor.)
American Laundry Machinery Company, The. (See Miller, Ernest W., assignor.)
American Laundry Machinery Company, The. (See Prestwich, Sidney, assignor.)
American Laundry Machinery Company, The. (See Waream, C. E., and Benjamin, assignors.)
American Lead Pencil Company. (See Goldsmith, B. B., and Barker, assignors.)
American Lead Pencil Company. (See Goldsmith, B. B., and Burt, assignors.)
American Lead Pencil Company. (See Goldsmith, B. B., Burt, and Barker, assignors.)
American Linen Fibre Company. (See Cooke, Clayton G., assignor.)
American Liquid Meter Company. (See Bassler, Carlos J., assignor.)
American Lithographic Company. (See Dietsche, Adolph, assignor.)
American Machine & Manufacturing Company. (See Davidson, Joseph, assignor.)
American Magnesium Corporation. (See Nicol, David S., assignor.)
American Mailing Device Corporation of New York. (See Wuesthoff, Frederick J., assignor.)
American Manganese Steel Company. (See Crane, Ernest E., assignor.)
American Manganese Steel Company. (See Exton, Alfred H., assignor.)
American Manganese Steel Company. (See Nichols, Wesley G., assignor.)
American Manganese Steel Company. (See Rush, Fred O., assignor.)
American Manufacturing Concern. (See Martin, L., and Underwood, assignors.)
American Marine Equipment Corporation. (See Row and Davis, assignors.)
American Mechanical Toy Company, The. (See Wagner, F. A., and Hartzell, assignors.)
American Metal Cap Company. (See Hammer, Charles, assignor.)
American Metal Company, The. (See Carstens, Alexander B., assignor.)
American Metal Products Corp. (See Ungerman, Carl, assignor.)
American Metal Shoe Company. (See Trolle, Louis, assignor.)
American Meter Company. (See Lane, George A., assignor.)
American Mine Door Company, The. (See Bowman, C. L., and Body, assignors.)
American Mine Door Company, The. (See Bowman, Newton K., assignor.)
American Molding Machine Company. (See Norcross, William C., assignor.)
American Multigraph Company, The. (See Trundle, George T., Jr., assignor.)
American Optical Company. (See Arnold, Arthur A., assignor.)
American Optical Company. (See Boutelle, William H., assignor.)
American Optical Company. (See Bugbee, L. W., and Tillyer, assignors.)
American Optical Company. (See Bugbee, Lucian W., assignor.)
American Optical Company. (See Cozzens, Charles O., assignor.)
American Optical Company. (See Day, George H., assignor.)
American Optical Company. (See Gagnon, Leo O., assignor.)
American Optical Company. (See Haynes, Charles M. assignor.)
American Optical Company. (See Herbert, Pitt H., assignor.)
American Optical Company. (See Hill, Harry W., assignor.)
American Optical Company. (See Laabs, Max A., assignor.)
American Optical Company. (See Mathewson, Henry B., assignor.)
American Optical Company. (See Propson, Carl F., assignor.)
American Optical Company. (See Schumacher, Elmer L., assignor.)
American Optical Company. (See Tillyer, E. D., and Bugbee, assignors.)
American Optical Company. (See Tillyer, Edgar D., assignor.)
American Optical Company. (See Tully, George L., assignor.)
American Oven & Machine Company. (See Royan, George, assignor.)
American Paper Bottle and Can Company. (See Stephenson, Leonard D., assignor.)
American Paper Goods Company, The. (See Cooley, Henry B., assignor.)
American Pasteurizer Company. (See Tait, Godfrey M. S., assignor.)
American Photo Player Company. (See Van Valkenburg, Burt R., assignor.)
American Piano Company. (See Byrne, Francis H. B., assignor.)
American Piano Company. (See Russell, Guy M., assignor.)
American Piano Company. (See Stoddard, Charles F., assignor.)
American Pin Company. (See Bartlett, Fred E., assignor.)
American Pipe Machine Company. (See Reese, James A., assignor.)
American Plate Glass Company. (See Willis, John, assignor.)
American Platinum Works. (See Koch, Theodor, assignor.)
American Pneumatic Chuck Company. (See Olson, John A., assignor.)
American Potash Corporation. (See Charlton, Harry W. assignor.)
American Pretzel Company, The. (See Schumaker, Lorraine J., assignor.)
American Projecting Company. (See Stechbart, Bruno, assignor.)
American Radiator Company. (See Mertzanoff, Andre M., assignor.)
American Radiator Works. (See Shapiro, Louis, assignor.)
American Radio & Research Corporation. (See Bush, Vannevar, assignor.)
American Railways Equipment Co., The. (See Whistler, D. B., and Ripsch, assignors.)
American Railways Equipment Company, The. (See Whistler, David B., assignor.)
American Refrigeration Company, The. (See Willsie, Henry E., assignor.) (Reissue.)
American Rides Corporation. (See Lauster, August P., assignor.)

Digitized by Google

Alphabetical list of patentees—Continued.

American Road Machinery Company. (See Berry, Earl E., assignor.)
American Rolling Mill Company, The. (See Beck, W. J., and Aupperle, assignors.)
American Rubber Company. (See Dennison, Charles H., assignor.)
American Rubber Company. (See Gibbons, Willis A., assignor.)
American Safety Device Co. (See Peterson, Frank, assignor.)
American Safety Device Company. (See Johnston, Frank B., assignor.)
American Safety Razor Company. (See Behrman, Marcus B., assignor.)
American Sales Book Company. (See Pringle, William A., assignor.)
American Sanitary Refrigeration Co. (See Fischbacher, Philip, assignor.)
American Sanitary Works. (See Tilden, Bert O., assignor.)
American Seedtape Company. (See Gray, Edward E., assignor.)
American Ship Building Company, The. (See Workman, James C., assignor.)
American Smelting & Refining Company. (See Cameron, F. K., Cullen, and Hyde, assignors.)
American Steam Conveyor Corporation, The. (See Griffin, Lorne A., assignor.)
American Steam Gauge & Valve Manufacturing Company. (See Hopkins, Frank H., assignor.)
American Steel Foundries. (See Bauer, Carl E., assignor.)
American Steel Foundries. (See Carscadin, C. A., and Woodman, assignors.)
American Steel Foundries. (See Carscadin, Charles A., assignor.)
American Steel Foundries. (See Davis, James C., assignor.)
American Steel Foundries. (See Kinne, Edmund P., assignor.)
American Steel Foundries. (See Lamont, John A., assignor.)
American Steel Foundries. (See Lamont, John R. assignor.)
American Steel Foundries. (See Peycke, Armand H., assignor.)
American Steel Foundries. (See Trowbridge, William S., assignor.)
American Steel Foundries. (See Whitney, Loren L., assignor.)
American Steel Products Co. (See Schell, Theodore, assignor.)
American Steel and Wire Company, The. (See Carstarphen, Frederick C., assignor.)
American Steel & Wire Company, The. (See Weaver, A. T., Laufer, and von Wintzingerode, assignors.)
American Steel and Wire Company of New Jersey, The. (See Carstarphen, Frederick C., assignor.)
American Steel and Wire Company of New Jersey. (See Dahlstrom, F. P., and Sturdevant, assignors.)
American Steel and Wire Company of New Jersey, The. (See Giffin, Otho L., assignor.)
American Steel and Wire Company of New Jersey. (See Page, George O., assignor.)
American Sterilizer Company. (See Jessup, Albert H., assignor.)
American Stove Company. (See Child, Guy B., assignor.)
American Stove Company. (See Meacham, Benjamin E., assignor.)
American Stove Company. (See Munzner, Charles, assignor.)
American Stove Company. (See Nicolaus, Frederic G., and Roy, assignors.)
American Stove Company. (See Roy, Joseph, assignor.)
American Stove Company. (See Ruppel, Henry, assignor.)
American Stove Company. (See Stafford, Walter K., assignor.) (Reissue.)
American Stove Company. (See Stockstrom, Arthur, assignor.)
American Tap Bush Co. (See Rice, Frank E., assignor.)
American Telephone and Telegraph Company. (See Afel, Herman A., assignor.)
American Telephone and Telegraph Company. (See Bascom, Henry M., assignor.)
American Telephone and Telegraph Company. (See Blackwell, Shaw, and Koukol, assignors.)
American Telephone and Telegraph Company. (See Blauvelt, William G., assignor.)
American Telephone and Telegraph Company. (See Campbell, George A., assignor.)
American Telephone and Telegraph Company. (See Carson, John R., assignor.)
American Telephone and Telegraph Company. (See Davidson, John, Jr., assignor.)
American Telephone and Telegraph Company. (See Demarest, Charles S., assignor.)
American Telephone and Telegraph Company. (See Demarest, C. S., and Shoffstall, assignors.)
American Telephone and Telegraph Company. (See Espenschied, Lloyd, assignor.)
American Telephone and Telegraph Company. (See Fish, Lewin B., assignor.)
American Telephone and Telegraph Company. (See Gherardi, Bancroft, assignor.)
American Telephone and Telegraph Company. (See Grisson, George, assignor.)
American Telephone and Telegraph Company. (See Harper, Alfred U., assignor.)
American Telephone & Telegraph Company. (See Heising, Raymond A., assignor.) (Reissue.)
American Telephone and Telegraph Company. (See Hoyt, Ray S., assignor.)
American Telephone and Telegraph Company. (See Jacobs, Oliver B., assignor.)
American Telephone and Telegraph Company. (See Kuhn, George W., assignor.)
American Telephone and Telegraph Company. (See Loynes, Owen H., assignor.)
American Telephone and Telegraph Company. (See Martin, William H., assignor.)
American Telephone and Telegraph Company. (See Mills, John, assignor.)
American Telephone and Telegraph Company. (See Morehouse, Lyman F., assignor.)
American Telephone and Telegraph Company. (See Osborne, H. S., and Parker, assignors.)
American Telephone and Telegraph Company. (See Osborne, Harold S., assignor.)
American Telephone and Telegraph Company. (See Pannitti, Alphonse, Jr., assignor.)
American Telephone and Telegraph Company. (See Potts, Louis M., assignor.)
American Telephone & Telegraph Company. (See Sinclair, Charles G., Jr., assignor.)
American Telephone and Telegraph Company. (See Smith, Temple C., assignor.)
American Telephone and Telegraph Company. (See Thompson, George K., assignor.)
American Telephone and Telegraph Company. (See Toomey, John F., assignor.)
American Telephone and Telegraph Company. (See Van Dyke, Karl S., assignor.)
American Thermophone Company. (See van Doorn, Anthonius M., assignor.)
American Thermophone Company. (See de Lange and van Lynden, assignors.)
American Thread Company, The. (See Wild, J. E., and Caldwell, assignors.)
American Tobacco Company. (See Hill, George W., assignor.)
American Tobacco Company. (See Williamson, J. E., Popken, and Vale, assignors.)
American Tool Company. (See Beaudreau, Edward H., assignor.)
American Tool Works Company, The. (See Sosa, A. M., Robinson, and Schatz, assignors.)
American Tool Works Company, The. (See Sosa, Augustus M., assignor.)
American Train Control Co., The. (See Scott, Thomas W., assignor.)
American Train Control Company, The. (See Scott, Thomas W., assignor.)
American Trona Corporation. (See Morse, Harry W., assignor.)
American Type Founders Company. (See Kelly, William M., assignor.)
American Vulcanized Fibre Co. (See Pierce, James F., assignor.)
American Wagon Company. (See Kuhnen, Alexander F., assignor.)
American Warp Drawing Machine Company. (See Lea, Charles, assignor.)
American Well Works, The. (See Chapman, Matthew T., assignor.)
American Well Works, The. (See Kerr, Charles V., assignor.)
American Wells Works, The, *et al.* (See Feitel, Isaac, assignor.)
American Wiremold Company, The. (See Petersen, Ancker, assignor.)
American Wringer Company. (See Young, Darcy A., assignor.)
Ames, Adelbert, Jr., Tewkesbury, Mass. Light-signaling. No. 1,339,085; May 4; v. 274; p. 81.
Ames, Butler, Lowell, Mass. Package of razor parts. No. 1,330,297; Feb. 10; v. 271; p. 209.
Ames, Butler, Lowell, Mass. Electric horn. No. 1,351,729; Sept. 7; v. 278; p. 3.
Ames, Butler, Lowell, Mass. Heat-engine. No. 1,363,547; Dec. 28; v. 281; p. 644.
Ames, Butler, Lowell, Mass. Engine. No. 1,363,548; Dec. 28; v. 281; p. 644.
Ames, Byron F., New York, N. Y. Crutch. No. 1,334,208; Mar. 16; v. 272; p. 496.
Ames, Charles W., Eyebrow, Saskatchewan, Canada. Grain-shocker. No. 1,357,537; Nov. 2; v. 280; p. 68.
Ames, Elmer F. (See Gibson, H. O., and Ames.)
Ames, Elmer U., assignor to H. Brinton Company, Philadelphia, Pa. Yarn-pusher for knitting-machines. No. 1,335,633; Mar. 30; v. 272; p. 871.

Digitized by Google

Alphabetical list of patentees—Continued.

Ames, Elmer U., assignor to H. Brinton Company, Philadelphia, Pa. Knitting-machine. No. 1,340,695; May 18; v. 274; p. 518.
Ames, Elmer U., assignor to H. Brinton Company, Philadelphia, Pa. Stop-motion. No. 1,342,245; June 1; v. 275; p. 125.
Ames, Elmer U., assignor to H. Brinton Company, Philadelphia, Pa. Knitting-machine. No. 1,359,307; Nov. 16; v. 280; p. 515.
Ames, Howard E., Washington, D. C. Sanitary receptacle. No. 1,344,531; June 22; v. 275; p. 754.
Ames, Robert Y. (See Allen, B. J., and Ames.)
Amesbury Brass and Foundry Company. (See Miller, William, assignor.)
Amey, George H., Fresno, Calif. Hospital bed-mattress. No. 1,347,666; July 27; v. 276; p. 639.
Amici, Domenico, Pool, Colo. Aeroplane. No. 1,358,915; Nov. 16; v. 280; p. 442.
Amis, Lewis A., Muskogee, Okla. Shaving-brush holder. No. 1,359,650; Nov. 23; v. 280; p. 628.
Ammann, Theophile, Berne, Switzerland. Rotary switch. No. 1,353,820; Sept. 28; v. 278; p. 551.
Ammons, William H., Jackson Springs, N. C. Water-motor. No. 1,339,012; May 4; v. 274; p. 67.
Amory, William N., New York, N. Y. Shock-absorber for vehicles. No. 1,334,428; Mar. 23; v. 272; p. 584.
Amory, William N., New York, N. Y. Shock-absorber for vehicles. No. 1,337,579; Apr. 20; v. 273; p. 490.
Amory, William N., New York, N. Y. Shock absorber for vehicles. No. 1,341,407; May 25; v. 274; p. 725.
Amos, Frank M., assignor to Wheeling Tile Company, Wheeling, W. Va. Insulator. No. 1,335,684; Mar. 30; v. 272; p. 871.
Amos, John A., Chicago, Ill., assignor to Crouse-Hinds Company, Syracuse, N. Y. Generator disconnector-box. No. 1,359,143; Nov. 16; v. 280; p. 483.
Amos, Moses, Atlanta, Ga. Holder for box-covers. No. 1,331,972; Feb. 24; v. 271; p. 613.
Amos, Ora and R., and E. A. McKee, Edinburg, Ind. Loading and hauling automobile-truck. No. 1,346,152; July 13; v. 276; p. 224.
Amos, Roy. (See Amos, Ora and R., and McKee.)
Amott, William. (See Meyer, Theodore, assignor.)
Amphion Piano Player Company, The. (See Doman, Lewis B., assignor.)
Amsler, Walter O., Edgewood, Pa. Muffle-furnace. No. 1,341,031; May 25; v. 274; p. 652.
Amsler, Walter O., Edgewood, Pa. Annealing furnace or leer. No. 1,351,323; Aug. 31; v. 277; p. 856.
Amstutz, Noah S. (See Simpson, David J., assignor.)
Amthor, Fritz, Brooklyn, N. Y., assignor to The Schaeffer & Budenberg Manufacturing Company. Temperature-operated device. No. 1,331,553; Feb. 24; v. 271; p. 533.
Amundsen, Godfrey B., Chicago, Ill., assignor to American Car and Foundry Company, New York, N. Y. Friction-driver for lathes and grinders. No. 1,336,548; Apr. 13; v. 273; p. 219.
Anable, Clarence E., Sacramento, Calif., assignor to Able Mfg. Co. Locking device. No. 1,329,691; Feb. 3; v. 271; p. 64.
Anaconda Copper Mining Company. (See Elton, J. O., and Caples, assignors.)
Anaconda Copper Mining Company. (See Laist, F., and Elton, assignors.)
Anagnostopoulos, Theodore D. (See Theodore, Anostopoulo D.)
Anast, Anthony G., Sandusky, Ohio. Glove for pool-players. No. 1,362,461; Dec. 14; v. 281; p. 341.
Anchor Cap & Closure Corporation. (See Dinsmoor, John L., assignor.)
Anchor Cap & Closure Corporation. (See Magrane, Robert, assignor.)
Anchor Cap & Closure Corporation. (See Ramsey, George, assignor.)
Anchor Cap & Closure Corporation. (See White, William P., assignor.
Anchor Cap & Closure Corporation. (See Wieland, Frederick G., assignor.)
Anchor Rubber Company, The. (See Pastor, Frank, assignor.)
Anchorz, George R., Landing, N. J. Chemical process for making nitrocarbohydrates. No. 1,329,353; Feb. 3; v 271; p. 3.
Anciens Etablissements A. Combe & Fils & Cie. (See Poto, Mariano, assignor.)
Anderegg, Edward W., Algoma, Wis. Weather-strip. No. 1,357,373; Nov. 2; v. 280; p. 33.
Anderegg, George, assignor of one-half to R. C. Tarrant, Sheridan, Wyo. Chain tightener and lock. No. 1,352,339; Sept. 7; v. 278; p. 120.
Anderfuhren, Louis, Baltimore, Md. Pneumatic-tire alarm. No. 1,327,416; Jan. 6; v. 270; p. 99.
Anders, Charles F. P., Urbana, Ill., assignor to E. L. Greenewald, Washington, D. C. Making vacuum-bottles. No. 1,335,544; Mar. 30; v. 272; p. 853.
Anders, Hanns R., Perth Amboy, N. J., assignor to The Roessler & Hasslacher Chemical Co., New York, N. Y. Treating hair. No. 1,331,609; Feb. 24; v. 271; p. 544.
Anders, Hanns R., Perth Amboy, N. J., assignor to The Roessler & Hasslacher Chemical Co., New York, N. Y Method of and apparatus for treating goods with fluids No. 1,345,341; July 6; v. 276; p. 3.
Andersen, Charles M., Denver, Colo. Cultivator. No. 1,347,926; July 27; v. 276; p. 691.
Andersen, Frederick C., Brooklyn, N. Y. Hair-curling device. No. 1,335,313; Mar. 30; v. 272; p. 811.
Andersen, Hans, Nymore, Minn. Log-skidding grapple. No. 1,353,503; Sept. 21; v. 278; p. 445.
Andersen, Johan M., assignor to Albert & J. M. Anderson Manufacturing Company, Boston, Mass. Circuit-controlling apparatus. No. 1,332,020; Feb. 24; v. 271; p. 622.
Andersen, John, Brooklyn, N. Y. Picture-mounting. No. 1,358,916; Nov. 16; v. 280; p. 442.
Andersen, Jörgen T., Gundstrup, near Otterup, Island of Funen, Denmark. Stylographic fountain-pen. No. 1,336,119; Apr. 6; v. 273; p. 79.
Andersen, Lauritz W., Waterbury, Conn. Adjustable cluster for electric-light fixtures. No. 1,358,811; Nov. 16; v. 280; p. 421.
Andersen, Peter C., Medford, Wis. Crushing-machine. No. 1,328,806; Jan. 27; v. 270; p. 487.
Andersen, Poul P., Taastrup, Denmark. Electric clock. No. 1,335,147; Mar. 30; v. 272; p. 781.
Andersen, Poul P., Taastrup, Denmark. Electric clock. ondary clock. No. 1,335,148; Mar. 30; v. 272; p. 781.
Anderson, Albert & J. M., Manufacturing Company. (See Andersen, Johan M., assignor.)
Anderson, Albert J., La Crosse, Wis. Coupling attachment. No. 1,336,181; Apr. 6; v. 273; p. 90.
Anderson, Albert L., assignor of one-fourth to J. F. Mazna and one-fourth to G. B. Shafer, Spokane, Wash. Demountable rim. No. 1,353,943; Sept. 28; v. 278; p. 576.
Anderson, Albert O. (See Bradley, Jacob A., assignor.)
Anderson, Albert R. (See Anderson, John W., Jr., and A. R.)
Anderson, Albert S., assignor to G. Waldref, St. Paul, Minn. Equalizer for hoists. No. 1,337,111; Apr. 13; v. 273; p. 327.
Anderson, Alfred, Goodhue, Minn. Nut-lock. No. 1,344,845; June 29; v. 275; p. 881.
Anderson, Allan A. (See Marsh, Isom L., assignor.)
Anderson, Andrew P., Lynbrook, N. Y., assignor of one-half to W. P. Ten Eyck, Westfield, N. J. Packing. No. 1,342,198; June 1; v. 275; p. 115.
Anderson, Anton D., Harrison, N. Y. Talking-machine. No. 1,327,516; Jan. 6; v. 270; p. 119.
Anderson, Archibald A., San Francisco, Calif. Fishhook. No. 1,333,148; Mar. 9; v. 272; p. 237.
Anderson, Arnold L., Attleboro, Mass. Soft-collar holder. No. 1,347,983; July 27; v. 276; p. 702.
Anderson, Arthur L., Grand Rapids, Mich. Internal-combustion motor. No. 1,357,135; Oct. 26; v. 279; p. 667.
Anderson, Arthur N. (See Saklatwalla, Byranji D., and Anderson.)
Anderson, Arthur R., North Arlington, N. J. Shoe-tree. No. 1,343,891; June 22; v. 275; p. 629.
Anderson, Arthur R., North Arlington, N. J. Shoe-tree. No. 1,356,509; Oct. 26; v. 279; p. 545.
Anderson, Arthur V., and A. M. Morgan, assignors to Ford Tire & Rubber Company, Fort Worth, Tex. Tire-casing. No. 1,351,015; Aug. 31; v. 277; p. 795.
Anderson, Arvid R., assignor to The Automatic Reclosing Circuit Breaker Company, Columbus, Ohio. Attachment for electric controllers. No. 1,328,804; Jan. 27; v. 270; p. 487.
Anderson, August G. (See Anderson, Lars M. and A. G.)
Anderson, August P., Chicago, Ill. Refrigerating apparatus. No. 1,340,646; May 18; v. 274; p. 508.
Anderson, August R., assignor of one-half to J. H. Knight, Kingman, Ariz. Flytrap. No. 1,342,933; June 8; v. 275; p. 312.
Anderson, Axel. (See Gahrfing, Frederick A., assignor.)
Anderson, Axel, Amery, Wis., assignor to Russell Grader Manufacturing Co., Minneapolis, Minn. Grading-machine. No. 1,363,704; Dec. 28; v. 281; p. 674.
Anderson-Barngrover Mfg. Co. (See Thompson, Albert R., assignor.)
Anderson, Brooke, Highland Park, Ill. Metallic fence-post. No. 1,330,157; Feb. 10; v. 271; p. 184.
Anderson, Brooke, Highland Park, Ill. Anchor-plate for fenceposts. No. 1,360,350; Nov. 30; v. 280; p. 835.
Anderson Bros. Mfg. Co. (See Anderson, Swan F., assignor.)
Anderson, Carl A., Waterloo, Iowa. Stand for hot-water tanks. No. 1,334,581; Mar. 23; v. 272; p. 613.
Anderson, Carl E. (See Thomas, G. B., and Anderson.)
Anderson, Carl E., Liminga, Mich. Automatic train-stop. No. 1,335,149; Mar. 30; v. 272; p. 781.
Anderson, Carl E., Maywood, Ill. Window-frame. No 1,345,471; July 6; v. 276; p. 28.
Anderson, Carl E., East Orange, assignor to Eastern Tool & Mfg. Company, Bloomfield, N. J. Binder. No. 1,327,186; Jan. 6; p. 270; p. 58.
Anderson, Carl E., assignor to The Bryant Electric Company, Bridgeport, Conn. Spring-operated mechanism. No. 1,340,000; May 11; v. 274; p. 329.

Digitized by Google

Anderson, Carl E., assignor to The Bryant Electric Company, Bridgeport, Conn. Electric switch. No. 1,348,684; Aug. 3; v. 277; p. 107.
Anderson, Carl M., Havana, N. D. Door-lock. No. 1,332,193; Mar. 2; v. 272; p. 3.
Anderson, Carl O., Springfield, assignor, by mesne assignments, to Thorne Brothers, Incorporated, Chicago, Ill. Cushion-spring for cream-separator neck-bearings. No. 1,337,987; Apr. 27; v. 273; p. 637.
Anderson, Carl O., Springfield, assignor to Thorne Bros., Inc., Chicago, Ill. Cream-separator bowl. No. 1,351,198; Aug. 31; v. 277; p. 880.
Anderson, Carl W., Ishpeming, Mich. Card-holding device. No. 1,332,941; Mar. 9; v. 272; p. 197.
Anderson, Caroline E., Park City, Utah. Maternity-corset. No. 1,352,422; Sept. 14; v. 278; p. 171.
Anderson, Charles A., assignor to G. E. Sundstrom, Chicago, Ill. Fluid-pump. (Reissue.) No. 14,789; Jan. 13; v. 270; p. 319.
Anderson, Charles E., assignor of one-half to F. Thunberg, Sacramento, Calif. Counterbalanced pump. No. 1,343,427; June 15; v. 275; p. 472.
Anderson, Charles H., Lexington, Ky. Apparatus for feeding liquid fuel to carbureters. No. 1,328,354; Jan. 20; v. 270; p. 374.
Anderson, Charles H., Lexington, Ky. Carbureter. No. 1,362,664; Dec. 21; v. 281; p. 433.
Anderson, Chester H., assignor of one-fourth to C. L. Hill and two-fourths to H. R. Kleinbach, Los Angeles, Calif. Clock. No. 1,350,131; Aug. 17; v. 277; p. 514.
Anderson, Clarence S., Lake Geneva, Wis. Radiator. No. 1,327,797; Jan. 13; v. 270; p. 233.
Anderson, Cloyd F. (See McNeil, G. W., and Anderson.)
Anderson Company, The. (See Anderson, John W., Jr., and A. R., assignors.)
Anderson, David. (See Scott-Snell, Charles, assignor.)
Anderson, David G., Columbus, Ohio, assignor to The Ohio Malleable Iron Company. Casting-machine. No. 1,350,352; Aug. 24; v. 277; p. 603.
Anderson, Don A. (See Smiley, Orvall, and Anderson.)
Anderson, Duncan M., Toronto, Ontario, Canada. Humidifier. No. 1,334,275; Mar. 23; v. 272; p. 555.
Anderson, E. D., Inc. (See Anderson, Ernest D., assignor.)
Anderson, E. D., Inc. (See Beckmann, Carl, assignor.)
Anderson, Edmund B. (See Faust, L., and Anderson.)
Anderson, Edward, Brooklyn, N. Y. Adjustable and knockdown window-seat. No. 1,328,706; Jan. 20; v. 270; p. 440.
Anderson, Edward L., assignor to R & G Company, Attleboro, Mass. Manufacture of buttons. No. 1,340,515; May 18; v. 274; p. 483.
Anderson, Edward L., assignor to R. & G. Company, Attleboro, Mass. Soft-collar holder. No. 1,361,760; Dec. 7; v. 281; p. 156.
Anderson, Edward L. and L. A., assignors to R & G Company, Attleboro, Mass. Soft-collar holder. No. 1,357,669; Nov. 2; v. 280; p. 88.
Anderson, Edwin, Seattle, Wash. Can-opener. No. 1,360,256; Nov. 30; v. 280; p. 817.
Anderson, Edwin C., Wausa, Nebr. Bundle positioning and discharge mechanism for harvesters. No. 1,363,549. Dec. 28; v. 281; p. 644.
Anderson Electric Specialty Company. (See Anderson, Ernst G. K., assignor.)
Anderson, Erick E., St. Louis, Mo. Wagon end-gate. No. 1,342,705; June 8; v. 275; p. 266.
Anderson, Ernest D., Long Beach, assignor to E. D. Anderson Inc., New York, N. Y. Receptacle or bag. No. 1,334,066; Mar. 16; v. 272; p. 470.
Anderson, Ernest D., assignor to E. D. Anderson Inc., New York, N. Y. Wrapping-machine. No. 1,336,549; Apr. 13; v. 273; p. 219.
Anderson, Ernest D., assignor to E. D. Anderson, Inc., New York, N. Y. Locking means. No. 1,359,856; Nov. 23; v. 280; p. 670.
Anderson, Ernest D., assignor to E. D. Anderson, Inc., New York, N. Y. Cartoning-machine. No. 1,359,946; Nov. 23; v. 280; p. 680.
Anderson, Ernst G. K. (See Benjamin and Anderson.)
Anderson, Ernst G. K., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Fuse-plug. No. 1,335,810; Apr. 6; v. 273; p. 20.
Anderson, Ernst G. K., assignor to Anderson Electric Specialty Company, Chicago, Ill. Actuating member for switches. No. 1,349,251; Aug. 10; v. 277; p. 271.
Anderson, Ernst G. K., assignor to Anderson Electric Specialty Co., Chicago, Ill. Extensible lamp for vehicles. No. 1,361,434; Dec. 7; v. 281; p. 92.
Anderson, Eugene G., Seattle, Wash. Display-table. No. 1,353,208; Sept. 21; v. 278; p. 387.
Anderson, Evald, Los Angeles, Calif., and F. S. Moon, Jr., Philadelphia, Pa., assignors to International Precipitation Company, Los Angeles, Calif. Obtaining potassium chlorid. No. 1,354,642; Oct. 5; v. 279; p. 39.
Anderson, Frank, Denver, Colo., and A. Wild, Loveland, Colo. Dumping-body for automobile-trucks, wagons, freight-cars, and other vehicles. No. 1,328,805; Jan. 27; v. 270; p. 487.
Anderson, Frank C., Cincinnati, Ohio. Switch-stand. No. 1,360,862; Nov. 30; v. 280; p. 936.
Anderson, Frederick D., Denver, Colo. Shoe attachment to facilitate walking. No. 1,360,095; Dec. 7; v. 281; p. 3.
Anderson, George D. (See Connor, A. W., and Anderson.)
Anderson, George J., and W. R. Smith, Cleveland, Ohio; said Anderson assignor to said Smith. Marking device. No. 1,343,073; June 8; v. 275; p. 340.
Anderson, George M., Washington, D. C., assignor to The Shredded Wheat Company. Machine for manufacturing filamentous biscuits. No. 1,334,429; Mar. 23; v. 272; p. 584.
Anderson, George W., El Centro, Calif. Corn-knife. No. 1,331,407; Feb. 17; v. 271; p. 485.
Anderson, George W., Benona township, Oceana county, Mich. Game apparatus. No. 1,342,884; June 8; v. 275; p. 303.
Anderson, Gideon, assignor to W. West, New York, N. Y. Tilting bed. No. 1,328,802; Jan. 27; v. 270; p. 487.
Anderson, Gideon, assignor to The West Gravitiser Corporation, New York, N. Y. Tilting table. No. 1,331,041; Feb. 17; v. 271; p. 419.
Anderson, Gust L., Fresno, Calif. Tray-turner. No. 1,344,982; June 29; v. 275; p. 807.
Anderson, Gustaf A., assignor to Landis Machine Company, Waynesboro, Pa. Cutter-head. No. 1,327,007; Jan. 6; v. 270; p. 24.
Anderson, Gustaf A., assignor to Landis Machine Company, Waynesboro, Pa. Cutter-head. No. 1,327,008; Jan. 6; v. 270; p. 25.
Anderson, Gustaf M., Waterloo, Iowa, assignor to Iowa Dairy Separator Company. Drive for machinery. No. 1,355,522; Oct. 12; v. 279; p. 265.
Anderson, Gustav, Manitowoc, Wis. Bucket-hoist. No. 1,332,192; Mar. 2; v. 272; p. 3.
Anderson, Gustav A., Baltimore, Md. Mechanism for opening doors. No. 1,356,118; Oct. 19; v. 279; p. 421.
Anderson, Gustav E., South Bend, Ind. Combination air-valve and primer for internal-combustion engines. No. 1,329,354; Feb. 3; v. 271; p. 3.
Anderson, Hans. (See Lund, J. M., and Anderson.)
Anderson, Harry T., Butler, Pa., assignor to Harry Vissering & Company, Chicago, Ill. Manufacture of railway draft-gear yokes. No. 1,328,975; Jan. 27; v. 270; p. 521.
Anderson, Harry T., Butler, Pa., assignor to Harry Vissering & Company, Chicago, Ill. Manufacture of yokes for railway draft-gears. No. 1,352,167; Sept. 7; v. 278; p. 87.
Anderson, Harry T., Crafton, Pa., assignor to Harry Vissering & Company, Chicago, Ill. Draft-gear yoke. No. 1,329,318; Jan. 27; v. 270; p. 584.
Anderson, Henry R. W., *et al.*, executors. (See Thomas, H. S., and Davies.)
Anderson, Hiram C., New York, N. Y. Resilient wheel. No. 1,342,271; June 1; v. 275; p. 129.
Anderson, Homer, Peekskill, N. Y. Nut-shaving machine. No. 1,339,086; May 4; v. 274; p. 82.
Anderson, James A., Morgan, Utah. Conveyer. No. 1,342,789; June 8; v. 275; p. 284.
Anderson, James B., Philadelphia, Pa. Mine pulley or roller. No. 1,349,183; Aug. 10; v. 277; p. 257.
Anderson, James C., Rutherford, N. J., assignor to Varley Duplex Magnet Company. Winding-machine. No. 1,344,482; June 22; v. 275; p. 735.
Anderson, James C., East Orange, N. J. Assignor to Varley Duplex Magnet Company. Winding-machine. No. 1,357,434; Nov. 2; v. 280; p. 44.
Anderson, James L. (See Cave, H., and Anderson.)
Anderson, James O., Eugene, Oreg. Draft-regulator. No. 1,341,872; June 1; v. 275; p. 51.
Anderson, John, Seattle, Wash. Auto-cab. No. 1,336,631; Apr. 6; v. 273; p. 118.
Anderson, John A., Lockport, Ill. Combined bushing and valve. No. 1,340,810; May 18; v. 274; p. 538.
Anderson, John A., Geneseo, Ill. Attachment for bearings. No. 1,342,319; June 1; v. 275; p. 138.
Anderson, John E., Jamestown, N. D. Hose-reel. No. 1,350,205; Aug. 17; v. 277; p. 529.
Anderson, John G., Pysht, Wash. Broom-stick and preparing same. No. 1,335,416; Mar. 30; v. 272; p. 830.
Anderson, John H., St. Paul, Minn. Wagon-pole. No. 1,356,252; Oct. 19; v. 279; p. 448.
Anderson, John H., St. Paul, Minn. Vehicle-pole. (Reissue.) No. 15,015; Dec. 28; v. 281; p. 748.
Anderson, John H., Cleveland, Ohio, assignor to General Electric Company. Leading - in conductor. No. 1,331,085; Feb. 17; v. 271; p. 427.
Anderson, John W., Jr., Mishawaka, Ind., and A. R. Anderson, Chicago, Ill., assignors to The Anderson Company, South Bend, Ind. Combined motor and fuel control. No. 1,346,477; July 13; v. 276; p. 288.
Anderson, Kristofer, Larson, N. D. Harrow attachment for plows. No. 1,333,056; Mar. 9; v. 272; p. 219.
Anderson, Kyle M. Echo, Oreg. Water-motor. No. 1,342,613; June 8; v. 275; p. 248.
Anderson, Lars M. and A. G., St. Paul, Minn. Sand-packing device used in foundry-molding. No. 1,360,996; Dec. 7; v. 281; p. 3.
Anderson, Lee S., Detroit, Mich. Device for turning sheet-music. No. 1,328,976; Jan. 27; v. 270; p. 521.

Digitized by Google

Alphabetical list of patentees—Continued.

Anderson, Lemuel O., assignor of one-half to F. P. Armstrong, Miami, Fla. Sash-fastener. No. 1,328,029; Jan. 13; v. 270; p. 276.

Anderson, Louis A. (See Anderson, Edward L. and L. A.)

Anderson, Luther H., Seattle, Wash. Machine for winding ribbon. No. 1,354,369; Sept. 28; v. 278; p. 663.

Anderson, Newton M., assignor, by mesne assignments, to T. Bemis, Sr., T. Bemis, Jr., and R. Bemis, trustees, Worthington, Ind. Vulcanizer. No. 1,359,562; Nov. 23; v. 280; p. 612.

Anderson, Nils H., assignor to The G. Drouve Company, Bridgeport, Conn. Window-operating mechanism. No. 1,333,595; Mar. 16; v. 272; p. 381.

Anderson, Nils H., Bridgeport, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Sound and shock absorbing machine-support. No. 1,356,182; Oct. 19; v. 279; p. 434.

Anderson, Nils H., Bridgeport, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Sound and shock absorbing foot. (Reissue.) No. 14,964; Oct. 26; v. 279; p. 681.

Anderson, Nils H., Bridgeport, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Tabulator mechanism for typewriting-machines. No. 1,362,071; Dec. 14; v. 281; p. 265.

Anderson, Nils O., and C. Scheich, Chicago, Ill. Antiseptic-powder-dispensing pencil. No. 1,352,932; Sept. 14; v. 278; p. 273.

Anderson, Normon, Duluth, Minn. Lug for tractors. No. 1,333,366; Mar. 9; v. 272; p. 277.

Anderson, Oscar. (See Bauman, H. G., and Westerberg, assignors.)

Anderson, Oscar W., Valley City, N. D. Piston-ring. No. 1,336,670; Apr. 13; v. 273; p. 242.

Anderson, Paul I., Des Moines, Iowa. Making tires. No. 1,335,150; Mar. 30; v. 272; p. 781.

Anderson, Paul I., Des Moines, Iowa. Device for making tires. No. 1,359,779; Nov. 23; v. 280; p. 655.

Anderson, Per A., New York, N. Y. Fan. No. 1,328,255; Jan. 20; v. 270; p. 255.

Anderson, Ragnar, Sheridan, Wyo. Salt and pepper shaker. No. 1,351,602; Aug. 31; v. 277; p. 911.

Anderson, Raymond M. (See Goldberg, J. S., and Anderson.)

Anderson, Raymond M., assignor to Stromberg Motor Devices Company, Chicago, Ill. Carbureting apparatus. No. 1,333,149; Mar. 9; v. 272; p. 287.

Anderson, Raymond M., Detroit, Mich., assignor to Stromberg Motor Devices Company, Chicago, Ill. Pressure-regulator for internal-combustion power plants. No. 1,358,812; Nov. 16; v. 280; p. 421.

Anderson, Robert, Wausau, Wis. Potato-digger. No. 1,332,454; Mar. 2; v. 272; p. 53.

Anderson, Robert, Muskegon Heights, Mich. Nut-lock. No. 1,333,529; Mar. 9; v. 272; p. 308.

Anderson, Robert J., El Paso, Tex., assignor to International Fuel Conservation Co., Phoenix, Ariz. Combustion apparatus. No. 1,362,212; Dec. 14; v. 281; p. 293.

Anderson, Ross, Richmond, Va. Drift for stayboltsleeves. No. 1,330,678; Feb. 10; v. 271; p. 279.

Anderson, Sigurd E., Des Moines, Iowa. Cement-stave machine. No. 1,346,779; July 13; v. 276; p. 349.

Anderson, Swan F., assignor to Anderson Bros. Mfg. Co., Rockford, Ill. Surface-working machine. No. 1,331,451; Feb. 17; v. 271; p. 494.

Anderson, Thomas F., East Liverpool, Ohio. Gravity-kiln. No. 1,363,215; Dec. 28; v. 281; p. 580.

Anderson, Victor E., Maywood, Ill. Clothesline holder. No. 1,358,047; Nov. 9; v. 280; p. 223.

Anderson, Vincent G., Kenosha, Wis., assignor to F. C. Austin, Chicago, Ill. Walking-dredge. No. 1,344,571; June 22; v. 275; p. 762.

Anderson, William B., Molson, Wash. Pressure gage and alarm. No. 1,363,216; Dec. 28; v. 281; p. 580

Anderson, William E. K., Oxford, England. Link belting. No. 1,334,926; Mar. 23; v. 272; p. 680.

Anderson, William J., Duluth, Minn. Meat-grinder. No. 1,330,775; Feb. 17; v. 271; p. 367.

Anderson, William P. (See Loder, Charles C., assignor.)

Anderson, William P., and N. C. Clarke, Birmingham, and J. F. Whitelaw, Erdington, England. Artificial arm. (Reissue.) No. 14,939; Aug. 31; v. 277; p. 934.

Anderson, William S., Victorville, Calif. Valve-truing device. No. 1,327,187; Jan. 6; v. 270; p. 58.

Anderson, William W., Chicago, Ill. Combined table and ironing-board. No. 1,342,660; June 8; v. 275; p. 256.

Andersson, Aron. (See Dalén, Gustaf, assignor.)

Andersson, August B. (See Stevens, Erick P., assignor.)

Andersson Gasometer Co. (See Andersson, Ivan, assignor.)

Andersson, Ivan, East Elmhurst, assignor to Andersson Gasometer Co. Inc., New York, N. Y. Depth or liquid-level gage. No. 1,361,576; Dec. 7; v. 281; p. 121.

Andersson, Karl G., Skogsfors, Refteled, assignor of one-third to J. A. Peterson, Refteled, Sweden. Diestock. No. 1,331,973; Feb. 24; v. 271; p. 613.

Andersson, Wictor O. J., Malmö, Sweden. Calculating machine. No. 1,338,481; Apr. 27; v. 273; p. 730.

Andersson, Victor O. J., Malmö, Sweden. Calculating machine. No. 1,353,504; Sept. 21; v. 278, p. 445.

Anderwert, Eugen, and Hermann Fritzsche, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Substantive othooxyazodyestuffs. No. 1,338,414; Apr. 27; v. 278; p. 717.

Andes, Robert A., Maroa, Ill. Harrow-hinge. No. 1,342,614; June 8; v. 275; p. 248.

Andrassy, Joseph, Cleveland, Ohio. Ventilator. No. 1,333,651; Mar. 16; v. 272; p. 392.

André, Paul, Le Val d'Ajol, France. Shearing and mowing machine. No. 1,351,939; Sept. 7; v. 278; p. 45.

Andreae, Emmeline, Edinburgh, Scotland. Sanitary bandage for ladies' use. No. 1,331,042; Feb. 17; v. 271; p. 419.

Andréani, Antoine, Geneva, Switzerland. Safety device for locks. No. 1,360,489; Nov. 30; v. 280; p. 863.

Andreani, Findley E. (See Sanker, Leonard J., assignor.)

Andreason, Christian, Sacramento, Calif. Spark-plug. No. 1,356,954; Oct. 26; v. 279; p. 631.

Andreau, Roland L., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Oxidizing isoborneol to camphor. No. 1,347,071; July 20; v. 276; p. 465.

Andrée, William E., Chicago, Ill., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Electric switch. No. 1,327,009; Jan. 6; v. 270; p. 25.

Andregg, Louis A. (See Krannich, Emil A., assignor.)

Andren, Fritz L., Chicago, Ill. Wire-coiling machine. No. 1,340,516; May 18; v. 274; p. 483.

Andres, Frank E. (See Jefferson, Daniel H., assignor.)

Andresen, Edward W. H., *et al.* (See Brueggeman, Frank, assignor.)

Andresen, Halvor, assignor to The Vacuum Muffler Corporation, New York, N. Y. Muffler. No. 1,351,985; Sept. 7; v. 278; p. 54.

Andresen, Halvor, assignor to Vacuum Muffler Corporation, New York, N. Y. Muffler. No. 1,361,662; Dec. 7; v. 281; p. 137.

Andresen, Herman P., *et al.* (See Brueggeman, Frank, assignor.)

Andresen, Herman P., Chicago, Ill. Sign and holder therefor. No. 1,335,870; Apr. 6; v. 273; p. 31.

Andresen, Herman P., Chicago, Ill. Combination heater and maintenance-wagon. No. 1,340,131; May 11; v. 274; p. 354.

Andresen, Herman P., Chicago, Ill. Crusher. No. 1,346,871; July 20; v. 276; p. 425.

Andresen, Herman P., Chicago, Ill. Washing-machine. No. 1,347,667; July 27; v. 276; p. 639.

Andresen, Herman P., Chicago, Ill. Snowplow. No. 1,358,046; Nov. 9; v. 280; p. 223.

Andresen, Hilmar, Chicago, Ill. Bridge. No. 1,337,187; Apr. 20; v. 273; p. 416.

Andress, Bert E., Port Allegany, Pa. Railway-signal. No. 1,341,772; June 1; v. 275; p. 32.

Andrews, Ernest P., Detroit, Mich. Rust-proofing process. No. 1,362,213; Dec. 14; v. 281; p. 293.

Andrew, Frederick W., assignor, by mesne assignments, to Eisemann Magneto Corporation, Brooklyn, N. Y. Impulse-starter. No. 1,342,199; June 1; v. 275; p. 115.

Andrew, Frederick W., assignor to Eisemann Magneto Corporation, Brooklyn, N. Y. Coupling for impulse-starters. No. 1,352,864; Sept. 14; v. 278; p. 260.

Andrew, Harve T., Marion, Iowa. Piston-ring. No. 1,356,183; Oct. 19; v. 279; p. 434.

Andrew Motor Manufacturing Company. (See Mohr, Albert F., assignor.)

Andrew, Wilbur A., Evansville, Wis. Adjustable gambrel. No. 1,345,112; June 29; v. 275; p. 930.

Andrew, Wilbur A., Evansville, Wis. Watering-bowl. No. 1,345,113; June 29; v. 275; p. 931.

Andrew, William P., Mount Pleasant, Pa. Nut-lock. No. 1,328,939; Jan. 27; v. 270; p. 514.

Andrews, Aaron A., Harris, Kans. Wire-stretcher. No. 1,357,435; Nov. 2; v. 280; p. 44.

Andrews, Alfred B., Evanston, Ill. Game device. No. 1,329,355; Feb. 3; v. 271; p. 3.

Andrews, Benjamin, Houston, Tex., and W. C. Averill, Jr., Meraux, La. Treating hydrocarbons. No. 1,329,739; Feb. 3; v. 271; p. 78.

Andrews, Bernard R., Braintree, Mass. Drier. No. 1,332,657; Mar. 2; v. 272; p. 92.

Andrews, Charles B., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J. Dredge-tumbler. No. 1,338,367; Mar. 9; v. 272; p. 278.

Andrews, Chester E., assignor to The Selden Company, Pittsburgh, Pa. Phthalic anhydrid. No. 1,336,182; Apr. 6; v. 273; p. 90.

Andrews, Cyrus N., Yucaipa, Calif. Apparatus for producing talking-motion-picture entertainments. No. 1,354,272; Sept. 28; v. 278; p. 644.

Andrews, Edward E., Detroit, Mich., assignor to American Can Company, New York, N. Y. Can-nozzle cap. No. 1,359,651; Nov. 23; v. 280; p. 629.

Andrews, Edward F., Chicago, and R. E. Acre, Wheaton, assignors to Universal Engineering Company, Maywood, Ill. Brush-rigging for dynamo-electric machines. No. 1,346,108; July 13; v. 276; p. 216.

Andrews, Edward F., Chicago, Ill. Storage-battery-charging system. No. 1,356,753; Oct. 26; v. 279; p. 502.

Andrews, Hervey N., and R. M. Holmes, South Bend, Ind. Air-conditioning apparatus for drying-kilns. No. 1,343,894. June 22; v. 275; p. 629.

Digitized by Google

Andrews, Lewis G., Duluth, Minn., assignor of one-half to I. G. Ketcham, Tower, Minn. Container. No. 1,360,863; Nov. 30; v. 280; p. 936.
Andrews, Moriel V., and S. W. Holman, Marmarth, N. D. Water-motor pump. No. 1,352,237; Sept. 7; v. 278; p. 101.
Andrews, Moril V., and S. W. Holman, Minneapolis, Minn. Compound rotary motor-pump. No. 1,332,153; Feb. 24; v. 271; p. 646.
Andrews, Moril V., and S. W. Holman, assignors to Mora Pump Company, Marmarth, N. D. Rotary water-pump. No. 1,327,517; Jan. 6; v. 270; p. 119.
Andrews, Moril V., and S. W. Holman, assignors to Mora Pump Company, Marmarth, N. D. Pump-head drive for rotary well-pumps. No. 1,364,017; Dec. 28; v. 281; p. 735.
Andrews, Searle E., Pittsburgh, Pa. Compass. No. 1,338,666; May 4; v. 274; p. 3.
Andrews, Shellie. (See May, Walter P., assignor.)
Andrick, Wallace P., Jamaica, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,333,596; Mar. 16; v. 272; p. 381.
Androvich, Steve. (See Plavsa, Dujo, assignor.)
Andrus, Charles H., San Francisco, Calif., assignor of forty per cent. to Morgan D. Andrus, Jr., De Quincy, La. Ball-bearing. No. 1,363,705; Dec. 28; v. 281; p. 674.
Andrus, George S., Akron, Ohio. Vulcanizer. No. 1,339,151; May 4; v. 274; p. 93.
Andrus, Morgan D., Jr. (See Andrus, Charles H., assignor.)
Andrus, William M., Allston, Mass. Certificate of value. No. 1,359,947; Nov. 23; v. 280; p. 688.
Anechiarico, Luigi, Asbury Park, N. J. Stepladder. No. 1,354,370; Sept. 28; v. 278; p. 663.
Aner, Martin A., Liverpool, England. Aerial railway. No. 1,338,663; May 4; v. 274; p. 3.
Anfinson, Anton, Wakonda, S. D. Roadway. No. 1,353,446; Sept. 21; v. 278; p. 433.
Angel, Albert, Cleveland, Ohio. Refractional demonstrating device. No. 1,341,773; June 1; v. 275; p. 32.
Angel, Andrea, deceased; M. L. Angel, executrix, Oxford, England. Dyestuff and making same. No. 1,340,696; May 18; v. 274; p. 518.
Angel, Asmus C. S., Copenhagen, Denmark. Prosthesis. No. 1,331,974; Feb. 24; v. 271; p. 613.
Angel, Asmus C. S., Copenhagen, Denmark. Dental plate. No. 1,354,938; Oct. 5; v. 279; p. 98.
Angel, John H., Minneapolis, Minn. Press-plate. No. 1,349,544; Aug. 10; v. 277; p. 328.
Angel, Mary L., executrix. (See Angel, Andrea.)
Angell, Chester M., assignor to Vesta Accumulator Company, Chicago, Ill. Accumulator-cell handle. No. 1,362,832; Dec. 21; v. 281; p. 465.
Angell, Fred P., Battle Creek, Mich. Air-controlled-piston door-check. No. 1,359,144; Nov. 16; v. 280; p. 484.
Angell, Otis R., Haverhill, Mass., assignor to Hamel Shoe Machinery Company. Shoe-machine. No. 1,339,591; May 11; v. 274; p. 251.
Angell, Otis R., assignor to Hamel Shoe Machinery Company, Haverhill, Mass. Machine for setting edges. No. 1,360,990; Nov. 30; v. 280; p. 960.
Angier, Edward H. (See Wheildon, William M., assignor.)
Angier, Edward H., Framingham, Mass. Apparatus and method for making transversely-reinforced material. No. 1,332,534; Mar. 2; v. 272; p. 69.
Angier, Edward H., Framingham, Mass. Barrel-cover. No. 1,337,188; Apr. 20; v. 273; p. 416.
Angier, Edward H., Framingham, Mass. Machine for reinforcing paper and other material. No. 1,338,164; Apr. 27; v. 273; p. 670.
Angier, Edward H., Framingham, Mass. Baling. No. 1,344,785; June 29; v. 275; p. 869.
Angier, Edward H., Framingham, Mass. Composite sheet. No. 1,352,774; Sept. 14; v. 278; p. 242.
Angier, Edward H., Framingham, Mass. Wrapping tires and the like and machine for practising the same. No. 1,354,371; Sept. 28; v. 278; p. 663.
Angier, Edward H., Framingham, Mass. Gummed paper and manufacturing same. No. 1,357,020; Oct. 26; v. 279; p. 645.
Angier, Edward H., Framingham, and W. M. Wheildon, Ashland, Mass.; said Wheildon assignor to said Angier. Packing mechanism. No. 1,362,382; Dec. 14; v. 281; p. 326.
Angiada, Joseph A., Philadelphia, Pa., assignor to Baker Wheel & Rim Company, Chicago, Ill. Producing metal wheels. No. 1,336,332; Apr. 6; v. 273; p. 118.
Angiada, Joseph A., Philadelphia, Pa., assignor to Baker Wheel & Rim Company, Chicago, Ill. Producing wheels. No. 1,336,333; Apr. 6; v. 273; p. 119.
Angiada, Joseph A., Philadelphia, Pa., assignor to Baker Wheel & Rim Company, Chicago, Ill. Metal wheel. No. 1,336,334; Apr. 6; v. 273; p. 119.
Angle, Edward H., Pasadena, Calif. Orthodontic implement. No. 1,346,584; July 13; v. 276; p. 310.
Angle, Edward H., Pasadena, Calif. Table. No. 1,359,479; Nov. 23; v. 280; p. 595.
Angle, Lloyd. (See Eby, P., and Angle.)
Anglemyer, Willard A., Indianapolis, Ind. Tire. No. 1,334,067; Mar. 16; v. 272; p. 470.
Angus, Donald J., Indianapolis, Ind. Volt-ampere meter. No. 1,342,081; June 1; v. 275; p. 92.
Angus, Donald J., Indianapolis, Ind. Volt-ampere meter. No. 1,342,082; June 1; v. 275; p. 92.
Angus, Donald J., Indianapolis, Ind., assignor to The Crown Cork and Seal Company of Baltimore City, Baltimore, Md. Means for treating crowns. No. 1,354,530; Oct. 5; v. 279; p. 17.
Angus, Donald J., assignor to C. G. Fisher and J. A. Allison, Indianapolis, Ind. Brake mechanism for vehicles. No. 1,356,032; Oct. 19; v. 279; p. 404.
Angus, Donald J., assignor to Easterline & Angus, Indianapolis, Ind. Vaporizer. No. 1,357,922; Nov. 2; v. 280; p. 136.
Anhaltzer, Henry, Pittsburgh, Pa. Apparatus for making soluble coffee and other products. No. 1,358,048; Nov. 9; v. 280; p. 223.
Anheuser, Ernst, Racine, Wis. File or brush holder. No 1,345,472; July 6; v. 276; p. 29.
Animated Picture Products Company. (See Saalburg, Charles W., assignor.)
Animated Target Company, Inc. (See Franklin, Hubert F., assignor.)
Animated Target Company. (See Robertson, William P., assignor.)
Ankli, Adolf, Phoenix, Ariz. Vegetable glue and making the same. No. 1,363,830; Dec. 28; v. 281; p. 699.
Annable, Henry W. C., Egham, England. Separation of magnesium from compounds and mixtures of magnesium and calcium carbonates. No. 1,347,610; July 27; v. 276; p. 628.
Annable, Lee V., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Vehicle-wheel with demountable rim. No. 1,348,975; Aug. 10; v. 277; p. 215.
Annan, Alfred H., assignor to The Thermowax Co., Dallas, Tex. Composition of matter for treating concrete flooring. No. 1,333,057; Mar. 9; v. 272; p. 220.
Annicq, Joseph, Renaix, Belgium. Dyeing, washing, and similarly treating yarn in the form of hanks, skeins, or the like. No. 1,337,877; Apr. 20; v. 273; p. 647.
Anoschenko, Boris, Philadelphia, Pa. Auto-signal. No. 1,359,308; Nov. 16; v. 280; p. 516.
Ansco Company. (See Cossitt, Franklin M., assignor.)
Ansco Company. (See Gordon, Myron B., assignor.)
Ansco Company. (See Hofmann, J. R., and Laughlin, assignors.)
Ansco Company. (See Schmidt, Carl W., assignor.)
Anshelm, Edward H., Cambridge, Mass. Combination cigarette and match container. No. 1,333,695; Mar. 16; v. 272; p. 400.
Ansley, Frank, Spokane, Wash. Fruit-picking device. No. 1,334,643; Mar. 23; v. 272; p. 624.
Ansonia Manufacturing Company. (See Malby, Seth G., assignor.)
Anstice, Josiah, assignor to Josiah Anstice & Co., Inc., Rochester, N. Y. Combined bread cutter and stacker. No. 1,341,452; May 25; v. 274; p. 734.
Anstice, Josiah, assignor to Josiah Anstice & Co., Incorporated, Rochester, N. Y. Combined vegetable-slicer and cuber. No. 1,357,829; Nov. 2; v. 280; p. 120.
Anstice, Josiah & Co., Inc. (See Anstice, Josiah, assignor.)
Anstice, Josiah, & Co. (See Anstice, Josiah, assignor.)
Antelotti, Frank J., Norfolk, Va. Device for holding soft collars. No. 1,363,381; Dec. 28; v. 281; p. 612.
Anthony, Alfred H., Colchester, England. Valve mechanism for reciprocating engines. No. 1,336,711; Apr. 13; v. 273; p. 251.
Anthony, Alfred R., Detroit, Mich. Fuel-oil burner. No. 1,342,732; June 8; v. 275; p. 271.
Anthony, Alois, Baltimore, Md. Portable clamp. No. 1,347,360; July 20; v. 276; p. 522.
Anthony, David W., assignor to Anthony Liquid Vending Machine Co., Minneapolis, Minn. Liquid-vending machine. No. 1,352,645; Sept. 14; v. 278; p. 216.
Anthony, James T., East Orange, N. J., and G. M. Bean, Los Angeles, Calif., assignors to American Arch Company, New York, N. Y. Oil-burning locomotive. No. 1,340,202; May 18; v. 274; p. 424.
Anthony, Joseph L., assignor to Weir Stove Company, Taunton, Mass. Stove-door. No. 1,348,838; Aug. 10; v. 277; p. 189.
Anthony Liquid Vending Machine Co. (See Anthony, David W., assignor.)
Anthony, Marcus O., assignor to A. Kimball Company, New York, N. Y. Pin-ticket. No. 1,327,010; Jan. 6; v. 270; p. 25.
Anthony, Ralph W., Ely, Iowa. Gas-grate. No. 1,354,531; Oct. 5; v. 279; p. 17.
Anthony, Stanley, Boston, Mass., assignor to Acme Card System Company, Chicago, Ill. Card-index. No. 1,327,936; Jan. 13; v. 270; p. 258.
Anthony, Stanley, Boston, Mass. Card-index. No. 1,330,509; Feb. 10; v. 271; p. 248.
Anthony, Stanley, Boston, Mass. Card-index. No. 1,330,510; Feb. 10; vol. 271; p. 249.
Anthony, Stanley, Boston, Mass. Push-button. No. 1,340,139; May 18; v. 274; p. 413.
Anthony, Stanley, Boston, Mass. Card-index. No. 1,340,140; May 18; v. 274; p. 413.
Anthony, William J. (See Orr, Elmore W., assignor.)
Antigo Tractor Co. (See Stewart, David S., assignor.)

Digitized by Google

Alphabetical list of patentees—Continued.

Antisell, Frank L., Perth Amboy, N. J. Process of and furnace for refining copper. No. 1,348,470; Aug. 3; v. 277; p. 66.
Antman, Israel, New York, N. Y. Machine for measuring and cutting ribbon. No. 1,348,976; Aug. 10; v. 277; p. 216.
Antoine, Alfred D., Chicago, and C. C. Travis, Evanston Ill., assignors to Advance Machine Co., Chicago, Ill Check-detector for check-actuated machines. (Reissue.) No. 14,905; July 6; v. 276; p. 153.
Antoine, Marius, assignor to Firm Etablissements Besnard, Maris & Antoine, Paris, France. Lamp or lantern. No. 1,356,898; Oct. 26; v. 279; p. 621.
Antonelli, Domenico, Philadelphia, Pa. Pedal-operating mechanism. No. 1,337,685; Apr. 20; v. 273; p. 510.
Antonuk, Lawrenty, Montreal, Quebec, Canada., assignor of forty-nine per cent. to S. Mikalkavitch, Middletown, Pa. Safety-box for milk and the like. No. 1,338,659; Apr. 27; v. 273; p. 762.
Antrim, William D., assignor to Welsbach Company, Gloucester, N. J. Gas-heater. No. 1,362,214; Dec. 14; v. 281; p. 293.
Any Package Wrapping Co. (See Hohl, George I., assignor.)
Apfel, Philip F., Seattle, Wash. Electrical heating element. No. 1,337,633; Apr. 20; v. 273; p. 500.
Apgar, Andrew B., Mapleton Depot, Pa. Wrench. No. 1,341,532; May 25; v. 274; p. 749.
Apostoloff, Serge, New York, N. Y. Anti-friction device. No. 1,327,895; Jan. 13; v. 270; p. 251.
App, Casper J., Lynchburg, Va. Writing implement. No. 1,352,340; Sept. 7; v. 278; p. 120.
Appelbaum, Alan I., assignor to The Import and By Products Company, Incorporated, Trenton, N. J. Sulfur color and manufacturing same from aloe resin. No. 1,346,153; July 13; v. 276; p. 224.
Appelbaum, Alan I., assignor to The Import and By Products Company, Incorporated, Trenton, N. J. Sulfur color and manufacturing same from aloes. No. 1,346,154; July 13; v. 276; p. 224.
Appelberry, Daniel L., Hammond, Ind. Beef-splitting machine. No. 1,353,013; Sept. 14; v. 278; p. 289.
Appelt, Charles E. H., Royal Oak, assignor of one-half to W. E. Thierry, Detroit, Mich. Bearing-protecting sleeve. No. 1,362,215; Dec. 14; v. 281; p. 294.
Appinel, Giuseppe, Elkville, Ill. Multiple propelled balloon. No. 1,337,032; Apr. 13; v. 273; p. 312.
Apple, Vincent G., Dayton, Ohio. Machine for bending armature-terminals. No. 1,332,154; Feb. 24; v. 271; p. 646.
Apple, Vincent G., Dayton, Ohio. Welding. No. 1,332,155; Feb. 24; v. 271; p. 646.
Apple, Vincent G., Dayton, Ohio. Building inductor elements for dynamo-electric machines. No. 1,348,198; Aug. 3; v. 277; p. 13.
Apple, Vincent G., Dayton, Ohio. Current-regulator for dynamos. No. 1,354,713; Oct. 5; v. 279; p. 54.
Appleby, Edmund G. (See Bentley, G. H., and Appleby.)
Appleby, William H., Chicago, Ill., assignor to The English & Mersick Co., New Haven, Conn. Latch. No. 1,332,876; Mar. 9; v. 272; p. 185.
Appleby, William H., Windsor, Ontario, Canada. Steering-wheels. No. 1,341,032; May 25; v. 274; p. 652.
Appleby, William H., Windsor, Ontario, Canada. Radiator ventilator and cap. No. 1,344,609; June 29; v. 275; p. 835.
Appleby, William H., Windsor, Ontario, Canada. Hinge and lock for steering-wheels. No. 1,351,603; Aug. 31; v. 277; p. 911.
Applegate, Daniel, Port Clinton, Ohio. Ice-harvesting machine. No. 1,351,604; Aug. 31; v. 277; p. 912.
Applegate, David S., Chicago, Ill. Cover for hot-water bottles. No. 1,358,133; Nov. 9; v. 280; p. 240.
Applegate, Herlin M., assignor of one-half to I. Warner, Brooklyn, N. Y. Soap-grip. No. 1,332,096; Feb. 24; v. 271; p. 636.
Appleman, John P. (See Cissel, G. W., and Appleman.)
Appleman, William H., Belmont, N. Y. Steering-gear for motor-vehicles. No. 1,345,308; June 29; v. 275; p. 969.
Appleton, Henry J., Detroit, Mich. Automatic tire-pump. No. 1,329,876; Feb. 3; v. 271; p. 100.
Appleton, Henry J., Detroit, Mich. Annunciator. No. 1,335,215; Mar. 30; v. 272; p. 792.
Appleton Wood Products Company. (See Gmeiner, Seymore, assignor.)
Applin, John W., assignor to La Fayette Motors Company, Indianapolis, Ind. Curtain-compartment for automobiles. No. 1,351,547; Aug. 31; v. 277; p. 900.
Applin, John W., assignor to La Fayette Motors Company, Indianapolis, Ind. Running-board support. No. 1,359,480; Nov. 23; v. 280; p. 595.
Aprile, Gennaro, Providence, R. I. Surgical irrigator. No. 1,355,727; Oct. 12; v. 279; p. 304.
Apsley Rubber Company. (See Dunbar, Ernest W., assignor.)
Apsley Rubber Company. (See Wrestling, Herman, assignor.)
Aragona, Andrew. (See Flynn, Charles F., assignor.)
Aramaki, Takekichi, Tokyo, Japan. Air-heating stove for blast-furnaces and gas-producers. No. 1,357,675; Nov. 2; v. 280; p. 90.
Aranar Company, The. (See Roberts, Fred T., assignor.)
Arapis, Michael S., Springfield, Mass. Snow cleaning and melting machine. No. 1,341,005; May 25; v. 274; p. 647.
Arata, Antonio J., assignor to Charles J. Ross Company, Philadelphia, Pa. Photo-engraver's screen. No. 1,341,610; May 25; v. 274; p. 764.
Arbaugh, Harvey A., *et al.* (See Stowell, Edward R., assignor.)
Arbeitel, Norbert, Bridgeport, Conn. Reversible countershaft. No. 1,331,891; Feb. 24; v. 271; p. 598.
Arbeitel, Norbert, Bridgeport, Conn. Gas-engine. No. 1,359,309; Nov. 16; v. 280; p. 516.
Arbetter Felling Machine Company. (See Hayes, Thomas J., assignor.)
Arbetter Felling Machine Company. (See Moulton, Harley C., assignor.)
Arbogast, Roland I., St. Louis, Mo. Window-washing apparatus. No. 1,334,209; Mar. 16; v. 272; p. 496.
Arbon, Paul, Tulsa, Okla. Swivel-jar socket. No. 1,331,892; Feb. 24; v. 271; p. 598.
Arbon, Paul, Tulsa, Okla. Swivel-jar socket. No. 1,343,541; June 15; v. 275; p. 494.
Arbon, Paul, Tulsa, Okla. Spring-swivel-jar socket. No. 1,343,542; June 15; v. 275; p. 494.
Arbon, Paul, Tulsa, Okla. Casing-head. No. 1,352,423; Sept. 14; v. 278; p. 171.
Arbon, Paul, assignor to R. Guiberson, Tulsa, Okla. Sand-trap. No. 1,327,583; Jan. 6; v. 270; p. 131.
Arbuthnot, John, Victoria, British Columbia, Canada, assignor to P. N. Furber, New York, N. Y. Ship. No. 1,343,491; June 15; v. 275; p. 484.
Arceneau, Joseph. (See Rosenquist, Anton, assignor.)
Archacki, Piotr, Detroit, Mich. Field-kitchen. No. 1,335,473; Mar. 30; v. 272; p. 840
Archambeau, Alfred E., Marquette, Mich. Boot or shoe. No. 1,334,009; Mar. 16; v. 272; p. 459.
Archdale, James, & Company. (See Jewsbury, Joseph, assignor.)
Archer, Charles E., Detroit, Mich., and E. C. Humphreys, Chicago, Ill. Clutch or locking mechanism. No. 1,360,864; Nov. 30; v. 280; p. 936.
Archer, Ebenezer G., Langley, England. Direction-indicator for road-vehicles. No. 1,337,991; Apr. 27; v. 273; p. 638.
Archer, Marmaduke H. P., Conshohocken, Pa. Mowing-machine. No. 1,348,685; Aug. 3; v. 277; p. 107.
Archibald, Edward B., Toronto, Ontario, Canada. Soldier's equipment and the like. No. 1,334,582; Mar. 23; v. 272; p. 613.
Archibald, James G., *et al.* (See Schott, John H., assignor.)
Archibald, John A., South Pekin, Ill. Underwater boat. No. 1,348,686; Aug. 3; v. 277; p. 108.
Archibald, Nevin A., Concord, N. C. Child's vehicle. No. 1,334,583; Mar. 23; v. 272; p. 613.
Arc-O Manufacturing Co., The. (See Olson, William O., assignor.)
Arcus, James S., Chicago, Ill. Roll-ticket-dispensing device. No. 1,332,194; Mar. 2; v. 272; p. 3.
Arden, Thomas R., New York, N. Y. Collapsible rod. No. 1,348,145; Aug. 3; v. 277; p. 3.
Ardouin, Daniel, Flushing, assignor of one-half to F. H. Brautigam, New York, N. Y. Gun-mounting. No. 1,330,776; Feb. 17; v. 271; p. 367.
Arduin Brothers. (See Arduin, Paul, assignor.)
Arduin, Paul, assignor to Arduin Brothers, Mount Vernon, N. Y. Machine for making pastry cones. N. 1,332,590; Mar. 2; v. 272; p. 80.
Arduin, Paul, assignor to Arduin Brothers, Mount Vernon, N. Y. Machine for making pastry cones. No. 1,337,500; Apr. 20; v. 273; p. 475.
Arduino, Pier T., Turin, Italy. Apparatus for preparing coffee infusion. No. 1,344,161; June 22; v. 275; p. 681.
Arenberg, Albert L., Chicago, Ill. Reflector-shade. No. 1,334,944; Mar. 30; v. 272; p. 741.
Arenberg, Albert L., Chicago, Ill. Vehicle-lamp. No. 1,347,886; July 27; v. 276; p. 683.
Arend, John P., Dommeldingen, Luxemburg. Producing metallic alloys. No. 1,363,382; Dec. 28; v. 281; p. 612.
Argall, Thomas, assignor to Pittsburgh Meter Company, Rankin, Pa. Reduction-gearing. No. 1,363,077; Dec. 21; v. 281; p. 513.
Argento, Francis, New York, N. Y. Tool. No. 1,359,015; Nov. 16; v. 280; p. 460.
Argetsinger, Ulysses G., Mapleton, Minn. Adjustable-socket wrench. No. 1,357,935; Nov. 9; v. 280; p. 201.
Arghis, E. J., *et al.* (See Evans, William F., assignor.)
Argo, Mattie L., Minneapolis, Minn. Steaming-form for milliners. No. 1,342,147; June 1; v. 275; p. 105.
Argovia, A.-G. (See Wildi, Carl, assignor.)
Ariuchi, Rikizo, Portland, Oreg. Horseshoe. No. 1,342,615; June 8; v. 275; p. 248.
Arkell Safety Bag Company. (See Greene, Edwin D., assignor.)
Arkell Safety Bag Company. (See Widmer, Howard G., assignor.)
Arkin, William, New York, N. Y. Artificial tooth. No. 1,335,717; Apr. 6; v. 273; p. 8.
Arlington Company, The. (See Crane, Jasper E., assignor.)
Arlington Company, The. (See Kessler, Johannes M., assignor.)

Digitized by Google

Arlington Company, The. (See Reese, Charles L., assignor.)
Arluskes, Veronica, Bridgeport, Conn. Compressor. No. 1,337,501; Apr. 20; v. 273; p. 475.
Armagost, George W., Minneapolis, Minn. Tool for contracting and expanding demountable wheel-rims. No. 1,343,992; June 22; v. 275; p. 648.
Armat, Christopher, Washington, D. C. Lock. No. 1,360,351; Nov. 30; v. 280; p. 835.
Armat, Thomas, Washington, D. C. Motion-picture apparatus. No. 1,358,917; Nov. 16; v. 280; p. 442.
Armbruster, Leopold, New York, N. Y. Cooking utensil. No. 1,338,547; Apr. 27; v. 273; p. 742.
Armes Automatiques Lewis. (See Hulse, Frederick W., assignor.)
Armes Automatique Lewis Societe Anonyme. (See Hulse, Frederick W., assignor.)
Armes, William J., Hamilton, Ontario, Canada. Milking-machine. No. 1,361,435; Dec. 7; v. 281; p. 92.
Armington, George A., Wickliffe, Ohio. Tractor. No. 1,342,412; June 8; v. 275; p. 209.
Armistead-Ashley Engineering Corporation. (See Armistead, Hubert M., assignor.)
Armistead, Hubert M., San Francisco, Calif., assignor to Armistead-Ashley Engineering Corporation, Reno, Nev. Transmission. No. 1,341,162; May 25; v. 274; p. 678.
Armistead, John E., Provo, Utah. Ore-separator. No. 1,356,332; Oct. 19; v. 279; p. 464.
Armleder, Otto, Wyoming, Ohio. Self-propelled vehicle. No. 1,351,199; Aug. 31; v. 277; p. 831.
Armor Clad Manufacturing Company, The. (See Long, Samuel F., assignor.)
Armorcord Rubber Company, The. (See McLane, Joseph A., assignor.)
Armored Motor Car Co., The. (See Ross, Waldo A., assignor.)
Armour Fertilizer Works. (See Shoeld, Mark, assignor.)
Armour Grain Company. (See Remmers, Bernhard, assignor.)
Armour, Robert, Providence, R. I. Resilient heel-tread. No. 1,344,972; June 29; v. 275; p. 904.
Armour, Robert, Providence, R. I. Trick pocket-knife. No. 1,350,251; Aug. 17; v. 277; p. 537.
Armstrong Bros. Tool Co. (See Fletcher, Joseph C., assignor.)
Armstrong, Celia J. (See Jennings, W., and Armstrong.)
Armstrong, Charles C., Huntington, W. Va. Fastening device for hinged box members. No. 1,344,846; June 29; v. 275; p. 881.
Armstrong Cork Company. (See Blakeney, John W., assignor.)
Armstrong Cork Company. (See Hawkins, John L., assignor.)
Armstrong, Dwight M., *et al.* (See Bennett, Lewis J., assignor.)
Armstrong, Edwin H. (See Pupin, M. I., and Armstrong.)
Armstrong, Edwin H., Paris, France. Receiving high-frequency oscillations. No. 1,342,885; June 8; v. 275; p. 303.
Armstrong, Frank H., Vulcan, Mich. Shoveling-machine. No. 1,360,997; Dec. 7; v. 281; p. 3.
Armstrong, Franklin P. (See Anderson, Lemuel O., assignor.)
Armstrong Harry Y., Springfield, Mass. Wrapping-machine. No. 1,341,408; May 25; v. 274; p. 725.
Armstrong, Ira, Merkel, assignor to Dixieland Motor Truck Company, Bowie county, Tex. Power-driven-implement frame. No. 1,328,222; Jan. 13; v. 270; p. 313.
Armstrong, James C., Beloit, Wis. Sanitary drinking-fountain. No. 1,357,436; Nov. 2; v. 280; p. 45.
Armstrong, James R., Pittsburgh, Pa. Gas-meter. No. 1,342,886 June 8; v. 275; p. 308.
Armstrong, John, London, assignor of one-half to Patent Corporation Limited, Liverpool, England. Alkali-package. No. 1,342,148; June 1; v. 275; p. 105.
Armstrong, John E., Newcastle-upon-Tyne, England. Automatic drain and pressure-relief valve. No. 1,343,382; June 15; v. 275; p. 463.
Armstrong, Louis E., and H. B. Brockenbrough, assignors to Plymouth Gypsum Company, Fort Dodge, Iowa. Plaster-board. No. 1,347,487; July 27; v. 276; p. 603.
Armstrong, Marshall, Hagersville, Ontario, Canada. Brake-beam guard. No. 1,354,372; Sept. 28; v. 278; p. 664.
Armstrong, Morgan K., Winnetka, Ill. Plastic mixture and making same. No. 1,331,554; Feb. 24; v. 271; p. 533.
Armstrong, Morgan K., Winnetka, assignor to Bestwall Manufacturing Company, Chicago, Ill. Making plaster-board. No. 1,348,387; Aug. 3; v. 277; p. 51.
Armstrong, Percy A. E., Loudonville, N. Y. Preventing cores for tubular bodies from welding. No. 1,341,204; May 25; v. 274; p. 686.
Armstrong, Percy A. E., Loudonville, N. Y. Removing sand cores from hollow drill-rods by sand-blast. No. 1,359,563; Nov. 23; v. 280; p. 612.
Armstrong, Robert F., La Cygne, Kans. Artificial hand. No. 1,334,689; Mar. 23; v. 272; p. 632.
Armstrong, Samuel A., Toronto, Ontario, Canada, and A. H. Blackburn, Downers Grove, assignors to Under-Feed Stoker Company of America, Chicago, Ill. Underfeed furnace. No. 1,333,696; Mar. 16; v. 272; p. 401.
Armstrong, Victor C. (See Payne, Ralph W., assignor.)
Armstrong, Sir W. G., Whitworth and Company. (See Haddock, A. G., and Forster, assignors.)
Armstrong, Sir W. G., Whitworth & Company. (See Le Mesurier, Louis J., assignor.)
Armstrong, Sir W. G., Whitworth and Company. (See Wilson, Reginald W., assignor.)
Armstrong, Sir W. G., Whitworth and Company, Limited. (See Fee, Francis, assignor.)
Arnandez, Jules G. (See Arnandez, Yves and J. G., and Voorhies.)
Arnandez, Yves and J. G., and C. L. Voorhies, Opelousas, La. Joint-lock. No. 1,358,918; Nov. 16; v. 280; p. 442.
Arndt, Earnest R., San Francisco, Calif. Tractor-belt. No. 1,358,494; Nov. 9; v. 280; p. 313.
Arndt, Edna M., Buffalo, N. Y. Combined window-sash fastener and burglar-alarm. No. 1,345,309; June 29; v. 275; p. 969.
Arndt, Franklin E., Galion, Ohio. Clamp for burial-vaults. No. 1,327,011; Jan. 6; v. 270; p. 25.
Arndt, Franklin E., assignor to D. C. Boyd, Galion, Ohio. Locking mechanism for vault-doors. No. 1,328,355; Jan. 20; v. 270; p. 374.
Arndt, Franklin E., assignor of one-half to D. C. Boyd, Galion, Ohio. Engine-manifold. No. 1,350,431; Aug. 24; v. 277; p. 619.
Arndt, Henry P., Richmond Hill, N. Y. Cross-brace radiator-base and reservoir for motor-vehicles. No. 1,355,803; Oct. 19; v. 279; p. 359.
Arndt, John P., Milwaukee, Wis. Fuse-switch. No. 1,350,432; Aug. 24; v. 277; p. 619.
Arndt, Oscar, assignor of one-half to R. Arndt, Detroit, Mich. Jar-opener. No. 1,348,532; Aug. 3; v. 277; p. 78.
Arndt, Richard L. (See Porter, J. W., and Arndt.)
Arndt, Richard L., assignor to Union Tractor Company, San Francisco, Calif. Traction-belt. No. 1,328,643; Jan. 20; v. 270; p. 429.
Arndt, Roman. (See Arndt, Oscar, assignor.)
Arnesen, Bernhardt M., *et al.* (See Maltz, Mayer, assignor.)
Arnett, Albert C., Shilo Springs, Ohio, assignor of one-half to W. Finch, Dayton, Ohio. Automobile light-reflector. No. 1,361,354; Dec. 7; v. 281; p. 75.
Arno, Oliver H., assignor to G. O. G. Coale, trustee, Boston, Mass. Tracking device. No. 1,340,360; May 18; v. 274; p. 454.
Arnold, Abbie L., *et al.*, executors. (See Arnold, William B.)
Arnold, Alfred A., assignor to The Galion Metallic Vault Company, Galion, Ohio. Metallic burial-vault. No. 1,360,865; Nov. 30; v. 280; p. 936.
Arnold, Arthur A., assignor to American Optical Company, Southbridge, Mass. Watchmaker's loupe. No. 1,330,777; Feb. 17; v. 271; p. 367.
Arnold, Arthur A., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,347,140; July 20; v. 276; p. 478.
Arnold, Arthur A., Southbridge, Mass., assignor to American Optical Company. Swaging-machine. No. 1,350,634; Aug. 24; v. 277; p. 659.
Arnold, Arthur E., Llandudno, Wales. Coal cabinet, scuttle, and the like. No. 1,350,913; Aug. 24; v. 277; p. 711.
Arnold, Charles E., assignor to du Pont Fabrikoid Company, Wilmington, Del. Forming artificial leather and product thereof. No. 1,350,271; Aug. 17; v. 277; p. 541.
Arnold, Charles H., assignor to The Venugraph Company, Dayton, Ohio. Operating device for cameras. No. 1,358,919; Nov. 16; v. 280; p. 442.
Arnold, Clarence F., Philadelphia, Pa. Walking doll. No. 1,352,933; Sept. 14; v. 278; p. 273.
Arnold-Creager Company, The. (See Graham, Henry W. B., assignor.)
Arnold, Edwin E., Pittsburgh, Pa., assignor to Iron City Products Company. Retainer for roller thrust-bearings. No. 1,330,158; Feb. 10; v. 271; p. 184.
Arnold, Ernest A., and B. E. Rothig, Eau Claire, Wis. Automobile-bumper. No. 1,354,273; Sept. 28; v. 278; p. 644.
Arnold, George A., Irwin, and E. J. Gross, Trafford, Pa. Resilient tire. No. 1,346,155; July 13; v. 276; p. 225.
Arnold, George T. (See Breuckman, F. C., and Arnold.)
Arnold, Harold D., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Thermionic amplifier. No. 1,329,283; Jan. 27; v. 270; p. 578.
Arnold, Harold D., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Vacuum-tube device. No. 1,354,939; Oct. 5; v. 279; p. 98.
Arnold, Harold D., East Orange, N. J., assignor to Western Electric Company, New York, N. Y. Method of and means for utilizing thermionic currents. No. 1,349,252; Aug 10; v. 277; p. 271.
Arnold, Harold D., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Means and method for secret signaling. No. 1,356,686; Oct. 26; v. 279; p. 573.

Digitized by Google

Arnold, Harold D., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Method and apparatus for measuring gas-pressures. No. 1,356,687; Oct. 26; v. 279; p. 579.

Arnold, Harold J., Stirchley, England. Spring-hinge for use with swing-doors or the like. No. 1,334,982; Mar. 30; v. 272; p. 749.

Arnold, Henry, assignor to Societe Francaise d'Editions Photo-Cartographiques, Paris, France. Altimetric device for use in the production of plans and maps in relief. No. 1,344,162; June 22; v. 275; p. 681.

Arnold, Horace W., Vancouver, Wash. Magnetic ore-separator. No. 1,362,072; Dec. 14; v. 281; p. 265.

Arnold, Howard P., Rockland, Mass. Manufacturing cutting-tools. No. 1,339.152; May 4; v. 274; p. 93.

Arnold, Jacob F., Bellevue, Ohio. Bookcase. No. 1,342,083; June 1; v. 275; p. 92.

Arnold, James A., Denison, Tex. Sawing-machine. No. 1,362,073; Dec. 14; v. 281; p. 265.

Arnold, James G., Toronto, Ontario, Canada. Illuminated sign. No. 1,341,251; May 25; v. 274; p. 694.

Arnold, John O., Sheffield, England. High-speed steel. No. 1,345,732; July 6; v. 276; p. 79.

Arnold, John P., assignor to Henry Disston & Sons, Incorporated, Philadelphia, Pa. Model for setting and filing saws. No. 1,359,216; Nov. 16; v. 280; p. 498.

Arnold Machine Co. (See Clipsham, K. M., and Jackson, Jr., assignors.)

Arnold, Philip S., Highland Park, assignor of one-fifth to C. E. Wisner, Detroit, Mich. Grinding-machine. No. 1,351,409; Aug. 31; v. 277; p. 873.

Arnold Print Works. (See Jones, Samuel M., assignor.)

Arnold, Stanley B., Chicago, Ill. Valve. No. 1,347,488; July 27; v. 276; p. 603.

Arnold, Thomas J., Orange, Tex. Hame-fastener. No. 1,357,928; Nov. 2; v. 280; p. 138.

Arnold Wahl Institute, The. (See Wahl, Arnold S., assignor.)

Arnold, William B., deceased, North Abington, Mass.; A. L. Arnold and J. B. Studley, executors. Welt for boots and shoes. No. 1,357,676; Nov. 2; v. 280; p. 90.

Arnold, William B., deceased, North Abington, Mass.; A. L. Arnold and J. B. Studley, executors. Welt for boots and shoes. No. 1,357,677; Nov. 2; v. 280; p. 90.

Arnold, Willis E., and L. Z. Nighswonger, St. Cloud, Fla. Moving-picture machine. No. 1,360,707; Nov. 30; v. 280; p. 906.

Arnolts, Peter, Odell, Ill. Coupling for antiskid-chains. No. 1,342,616; June 8; v. 275; p. 248.

Arnot, Owen G., Bakersfield, Calif. Roller-bearing. No. 1,341,878; June 1; v. 275; p. 51.

Arnott, James, Oakland, Calif. Mechanical movement. No. 1,342,887; June 8; v. 275; p. 303.

Arntz, Lew. (See Walters and Arntz.)

Arntzen, Anders, and K. Trosdahl, assignors to Elektrisk Varmeteknik A/S., Sarpsborg, Norway. Electric-heating body. No. 1,352,934; Sept. 14; v. 278; p. 274.

Aronne, Louis. (See Rogati, A., and Aronne.)

Aronson, Louis V. (See Morinsky, L., and Madan, assignors.)

Aronson, Louis V., Newark, N. J. Pencil and igniter. No. 1,342,838; June 8; v. 275; p. 294.

Aronson, Louis V., Newark, N. J. Temperature-indicating device for cooling systems for internal-combustion engines. No. 1,347,317; July 20; v. 276; p. 513.

Aronson, Louis V., Newark, N. J. Walking doll. No. 1,357,374; Nov. 2; v. 280; p. 33.

Aronson, Louis V., Newark, N. J. Heating device. No. 1,358,495; Nov. 9; v. 280; p. 313.

Aronson, Louis V. and A. Harris, Newark, N. J., assignors, to Heat-Ometer Company, Inc., New York, N. Y. Indicating devices for explosive-engines. No. 1,330,570; Feb. 10; v. 271; p. 260.

Arosio, Mario, Milan, Italy. Impermeable and non-hygroscopic material. No. 1,355,586; Oct. 12; v. 279; p. 277.

Arosio, Mario, Milan, Italy. Increasing the strength and eliminating the hygroscopicity of wooden materials and articles generally. No. 1,356,847; Oct. 26; v. 279; p. 611.

Arpe, Theodor C., Portland, Oreg. Shovel-excavator and operating means therefor. No. 1,354,870; Oct. 5; v. 279; p. 84.

Arquint, Hans, Richterswil, Switzerland. Car-frame. No. 1,327,367; Jan. 6; v. 270; p. 90.

Arrighi, Pietro, San Francisco, Calif. Rotary engine. No. 1,353,374; Sept. 21; v. 278; p. 419.

Arrow Bottlers Machinery Company, trustee. (See Gaynor, John J., assignor.)

Arrow Electric Company, The. (See Gates, Frederic P., assignor.)

Arrow-Grip Manufacturing Company. (See Avery, True M., assignor.)

Arrow Phonograph Corporation. (See Matthews, Frederick W., assignor.)

Arrowsmith, James W., assignor to Arrowsmith Mfg. Company, Inc., Morristown, N. J. Metatarsal support. No. 1,358,606; Nov. 9; v. 280; p. 335.

Arrowsmith Mfg. Company. (See Arrowsmith, James W., assignor.)

Arrowood, Milton W. (See Baxter, William M., assignor.)

Arseneau, John, Shediac, New Brunswick, Canada. Clothes and line grip. No. 1,355,376; Oct. 12; v. 279; p. 236.

Art In Buttons. (See Eby, Philip, assignor.)

Art in Buttons. (See Eby and Angle, assignors.)

Art Metal Construction Company. (See Fosberg, Henry C., assignor.)

Art Metal Construction Company. (See Johnson, Ernest F., assignor.)

Art Metal Construction Company. (See Larson, Algot J. E., assignor.)

Art Woodwork Company. (See Czumpft, John, assignor.)

Arter, John J. B., Greet, near Birmingham, England. Machine, anti-aircraft, and other gun. No. 1,334,983; Mar. 30; v. 272; p. 740.

Arter, Leroy H., Warren, Ohio. Shoe-shining cabinet. No. 1,346,585; July 13; v. 276; p. 310.

Arter, Thomas W., Bellaire, Ohio. Cushion-heel. No. 1,345,114; June 29; v. 275; p. 931.

Arter, William, assignor to The Persons-Arter Machine Company, Worcester, Mass. Work-handling mechanism. No. 1,357,924; Nov. 2; v. 280; p. 138.

Arthur, Albert, Cleveland, Ohio. Milling-machine. No. 1,330,971; Feb. 17; v. 271; p. 405.

Arthur, Edward D., and W. G. Cartter, Arcadia, Calif. Solar heater. No. 1,338,644; Apr. 27; v. 273; p. 760.

Arthur, Ernest L., Pembroke, Va. Automobile-tire-chain holder. No. 1,352,238; Sept. 7; v. 278; p. 101.

Arthur, Harry A., Philadelphia, Pa. Operation-control record. No. 1,336,120; Apr. 6; v. 273; p. 79.

Arthur, Henry W., Sioux City, Iowa. Camera-shutter-controlling device. No. 1,354,461; Oct. 5; v. 279; p. 3.

Arthur, James W., assignor to The Williams Foundry & Machine Company, Akron, Ohio. Apparatus for repairing tires. No. 1,344,847; June 29; v. 275; p. 881.

Arthur, Kemp B., Norfolk, Va. Spring-hinge. No. 1,332,591; Mar. 2; v. 272; p. 80.

Arthur, Kemp B., Norfolk, Va. Adjustable and separable stud or button. No. 1,349,649; Aug. 17; v. 277; p. 421.

Arthur, Kemp B., Norfolk, Va. Oyster-shucking knife. No. 1,352,108; Sept. 7; v. 278; p. 76.

Arthur, Richard S., New York, N. Y. Apparatus for recording and reproducing sound. No. 1,355,523; Oct. 12; v. 279; p. 265.

Arthur, Richard S., New York, N. Y. Sound recording and reproducing machine. No. 1,357,936; Nov. 9; v. 280; p. 201.

Artkop, Jan, Detroit, Mich. Bread-molding machine. No. 1,339,087; May 4; v. 274; p. 82.

Artmaier, Hans, Racine, Wis. Dental-instrument-grinding device. No. 1,350,951; Aug. 24, v. 277; p. 719.

Arton, John A., Chicago, Ill. Bed-chair. No. 1,336,062; Apr. 6; v. 273; p. 67.

Aruga, Densaku, San Francisco, Calif. Woven cloth. No. 1,358,607; Nov. 9; v. 280; p. 335.

Arvidsson, Nils, Chicago, Ill. Type-bar-casting machine. No. 1,362,589; Dec. 21; v. 281; p. 417.

Arzinger, William O., Nashville, Tenn. Sand-separator. No. 1,333.197; Mar. 9; v. 272; p. 245.

Arzinger, William O., Nashville, Tenn. Flake-splitter. No. 1,333,198; Mar. 9; v. 272; p. 245.

Asano, George K., Dalhart, Tex. Combination fan, score-card, and megaphone. No. 1,332,789; Mar. 2; v. 272; p. 117.

Asbestos Protected Metal Company. (See Hamill, James, assignor.)

Asbestos Protected Metal Company. (See Robertson, Harold H., assignor.)

Aschauer, Charles J., Decatur, Ill. Building construction. No. 1,353,702; Sept. 21; v. 278; p. 485.

Aschaur, Henry A., Springfield, Ill. Steering axle. No. 1,363,211; Dec. 28; v. 281; p. 579.

Aschburner, Fredrick C., Chicago, Ill. Stethoscope. No. 1,350,767; Aug. 24; v. 277; p. 685.

Asche, Evert, Clara City, Minn. Ratchet-brace. No. 1,328,111; Jan. 13; v. 270; p. 292.

Aschenbach, Ernest, Washington, D. C. Die or implement used in the manufacture of spark-plugs. No. 1,341,453; May 25; v. 274; p. 734.

Aschinger, Harry W., assignor of one-third to W. W. Carson, Evansville, one-third to F. V. Carson, and one-third to O. Stahl and E. F. Stahl, Vandenburg county, Ind. Spark-plug. No. 1,332,704; Mar. 2; v. 272; p. 101.

Asel, Adolph, Los Angeles, Calif. Soap-dispenser. No. 1,357,925; Nov. 2; v. 280; p. 138.

Aseptic Service Company. (See Rees, Warren C., assignor.)

Ash, Charles S., Geneva, N. Y. Truing-stand. No. 1,353,505; Sept. 21; v. 278; p. 445.

Ash, Frederick J., Phoenixville, Pa. Stocking-holding device. No. 1,348,922; Aug. 10; v. 277; p. 205.

Ash, Hiram S., and A. J. Bridges, Bedford, Iowa. Heat-conductor. No. 1,363.383; Dec. 28; v. 281; p. 612.

Ash, Richard L., assignor of one-third to L. Gibson and one-third to H. Murray, Philadelphia, Pa. Hat and garment holder. No. 1,336,408; Apr. 13; v. 273; p. 193.

Ash, Robert T. (See McGeorge, William C., assignor.)

Ashbaugh, James W., Bremen, Ohio. Gas-heater. No. 1,330,228; Feb. 10; v. 271; p. 197.

Digitized by Google

Ashby, Bert, El Paso, Tex. Packet-holder. No. 1,328,869; Jan. 27; v. 270; p. 500.
Ashby, Bert A., El Paso, Tex. Spark-arrester. No. 1,328,868; Jan. 27; v. 270; p. 500.
Ashby, Earnest J., Henderson, Ky. Trowel. No. 1,353,014; Sept. 14; v. 278; p. 289.
Ashby, Howard E. (See Ashby, Thomas E. and H. E.)
Ashby, Sydney G. (See Barningham, V., and Ashby.)
Ashby, Thomas E. and H. E., Wayne, Mich. Sled. No. 1,353,817; Sept. 28; v. 278; p. 551.
Ashcroft, Edgar A., London, England. Manufacture of potassium chlorid from natural silicates, rocks, minerals, residues, or wastes containing potassium. No. 1,350,091; Aug. 17; v. 277; p. 506.
Ashcroft, Edgar A., London, England. Anhydrous magnesium chlorid or anhydrous double chlorids of magnesium. No. 1,359,652; Nov. 23; v. 280; p. 629.
Ashcroft, Edgar A., London, England. Process and apparatus for the electrolytic decomposition of anhydrous magnesium chlorid and the production of magnesium or alloys thereof and chlorin. No. 1,359,653; Nov. 23; v. 280; p. 629.
Ashcroft, Edgar A., London, England. Production of magnesium or alloys of magnesium and by-products. No. 1,359,654; Nov. 23; v. 280; p. 629.
Ashcroft Manufacturing Company, The. (See Crocker, Ernest B., assignor.)
Ashe, William B., Hampton, and F. C. Bivins, Newport News, Va. Rivet-gun rig. No. 1,336,121; Apr. 6; v. 273; p. 79.
Ashenfelter, Loyd E., Atlanta, Ga. Tobacco-biter. No. 1,353,944; Sept. 28; v. 278; p. 576.
Ashenhurst, Harold S., Chicago, Ill. Fireproofing material. No. 1,351,149; Aug. 31; v. 277; p. 820.
Ashenhurst, Harold S., assignor of four-fifths to J. J. Reynolds, Chicago, Ill. Manufacturing an insulating material. No. 1,353,621; Sept. 21; v. 278; p. 469.
Ashenhurst, Harold S., assignor of four-fifths to J. J. Reynolds, Chicago, Ill. Reinforced insulating material. No. 1,353,622; Sept. 21; v. 278; p. 469.
Asher, Eunice. (See Stremel, Joseph, assignor.)
Asher, William J., Worcester, Mass. Mangle. No. 1,354,871; Oct. 5; v. 279; p. 85.
Asher, William J., Newark, N. J. Safety device for mangles. No. 1,354,872; Oct. 5; v. 279; p. 85.
Ashland Products Company, The. (See Willour, Le Roy, assignor.)
Ashley, Clifford W., Wilmington, Del. Sennit of polygonal cross-section. No. 1,361,803; Dec. 14; v. 281; p. 211.
Ashley, Frank M., Brooklyn, N. Y. Peg-box cover for violins and the like. No. 1,336,409; Apr. 13; v. 273; p. 193.
Ashley, Frank M., Brooklyn, N. Y. Inkstand. No. 1,361,355; Dec. 7; v. 281; p. 75.
Ashley, Frank M., Brooklyn, N. Y. Mechanic's tool. No. 1,362,981; Dec. 21; v. 281; p. 493.
Ashley, Freeland B., Kansas City, Mo. Poultry-feeder. No. 1,340,869; May 25; v. 274; p. 621.
Ashley Manufacturing Company. (See Ashley, Walter J., assignor.)
Ashley, Walter A., Chillicothe, Ohio. Fitting for domestic gas-meters. No. 1,350,132; Aug. 17; v. 27; p. 514.
Ashley, Walter J., assignor to Ashley Manufacturing Company, Chicago, Ill. Tire-pump. No. 1,333,955; Mar. 16; v. 272; p. 449.
Ashley, William C., Chicago, Ill. Dish-washing machine. No. 1,340,517; May 18; v. 274; p. 483.
Ashman, D. B., Machine Company. (See Ashman, David B., assignor.)
Ashman, David B., assignor to The D. B. Ashman Machine Company, Baltimore, Md. Machine for piercing plies of fabrics. No. 1,361,664; Dec. 7; v. 281; p. 137.
Ashtabula Bow Socket Company, The. (See Lewis, Frederick K., assignor.)
Ashtabula Bow Socket Company, The. (See Tesner, Frederick L., assignor.) (Reissue.)
Ashton, E. C. (See Springer, Elijah H., assignor.)
Ashton, Fred B., Chicago, Ill. Automatic combination-lock. No. 1,348,621; Aug. 3; v. 277; p. 95.
Ashton, Hannah, executrix. (See Ashton, Orrell.)
Ashton, John T., assignor of one-half to E. C. Heilhecker, Bristol, R. I. Rubber heel or lift. No. 1,334,210; Mar. 16; v. 272; p. 496.
Ashton, Orrell, deceased, by H. Ashton, executrix, Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Lasting-machine. No. 1,335,779; Apr. 6; v. 272; p. 15.
Ashton, Orrell, deceased; H. Ashton, executrix, Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Shoe-tip-measuring mechanism. No. 1,346,156; July 13; v. 276; p. 225.
Ashton, Orrell, deceased; H. Ashton, executrix, Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Assembling-machine. No. 1,356,510; Oct. 26; v. 279; p. 545.
Ashton, Thomas, *et al.* (See Cooke, William J., assignor.)
Ashworth, Charles R., Detroit, Mich. Internal-combustion engine. No. 1,354,274; Sept. 28; v. 278; p. 644.
Ashworth, Fred, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Shoe-sewing machine. No. 1,329,491; Feb. 3; v. 271; p. 28.
Ashworth, Fred, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Driving and stopping mechanism. No. 1,337,992; Apr. 27; v. 273; p. 638.
Ashworth, Fred, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe-sewing machine. No. 1,351,090; Aug. 31; v. 277; p. 809.
Ashworth, Fred, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Thread-waxing device for sewing-machines. No. 1,355,118; Oct. 12; v. 279; p. 185.
Askew, Markus L. (See Collins, J., and Askew.)
Asman, Henry, Evansville, Ind. Combined double-ended sled and wagon. No. 1,349,311; Aug. 10; v. 277; p. 282.
Asmondis, Rocco, Zellenople, Pa. Saw-sharpening machine. No. 1,327,012; Jan. 6; v. 270; p. 26.
Aspinwall, John, Newburgh, N. Y. Mower. No. 1,348,471; Aug. 3; v. 277; p. 66.
Aspinwall, Lewis A., Jackson, Mich., assignor to Aspinwall Mfg. Co. Potato-digger. No. 1,341,454; May 25; v. 274; p. 735.
Aspinwall, Louis M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Steering-gears for torpedoes. No. 1,360,258; Nov. 30; v. 280; p. 818.
Aspinwall, Louis M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Horizontal steering-gear for torpedoes. No. 1,360,259; Nov. 30; v. 280; p. 818.
Aspinwall Mfg. Co. (See Aspinwall, Lewis A., assignor.)
Asplet, Arthur, Murphy, N. C. Trundle toy. No. 1,357,937; Nov. 9; v. 280; p. 201.
Aspromet Company. (See McAllister, Albert, assignor.)
Aspromet Company. (See Robertson, Harold H., assignor.)
Aspromet Company. (See Young, James H., assignor.)
Asselstine, Burton, *et al.* (See Mowatt, Alexander, assignor.)
Associate Company, The. (See Taft, Walter E., assignor.)
Associated Engineers Company. (See Brachtl, Henry, assignor.)
Associated Engineers Company. (See Tillson, Edwin D., assignor.)
Associated Engines Company. (See Gruenfeld, Julius J., Jr., assignor.)
Associated Manufacturers Company. (See Kimball, Earl H., assignor.)
Aste, Anthony L., Brooklyn, N. Y. Powder-box. No. 1,357,306; Nov. 2; v. 280; p. 20.
Astin, Ernest S., assignor to The Liberty Tool Company, Baltimore, Md. Holder for drilling and riveting tools. No. 1,348,074; July 27; v. 276; p. 721.
Astin, Ernest S., assignor to The Liberty Tool Company, Baltimore, Md. Backing-out punch. No. 1,362,911; Dec. 21; v. 281; p. 480.
Astley, Robert, Boston, Mass. Folding device. No. 1,346,109; July 13; v. 276; p. 216.
Aston, Albert A., Leicester, England, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for inserting fasteners. No. 1,346,157; July 13; v. 276; p. 225.
Astra Societe Anonyme. (See Kapferer, Henri, assignor.)
Astrom, Carl P., East Orange, N. J., assignor to M. H. Treadwell Company, New York, N. Y. Hot-metal car. No. 1,341,291; May 25; v. 274; p. 702.
Astrom, Carl P., East Orange, N. J., assignor to M. H. Treadwell Company, New York, N. Y. Hot-metal ladle-car. No. 1,347,984; July 27; v. 276; p. 702.
Astrom, John, assignor to Fort Wayne Engineering & Manufacturing Co., Fort Wayne, Ind. Pump. No. 1,328,474; Jan. 20; v. 270; p. 397.
Astrom, John, assignor to Fort Wayne Engineering & Manufacturing Co., Fort Wayne, Ind. Valve. No. 1,349,253; Aug. 10; v. 277; p. 271.
Atamian, Krikor, assignor of one-half to L. M. Scarborough, St. Louis, Mo. Fire-escape. No. 1,333,530; Mar. 9; v. 272; p. 308.
Athens Bindery Company, The. (See Crippen, Henry M., assignor.)
Atherton, Alfred L., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Spring mechanism for vibrating rectifiers. No. 1,355 524; Oct. 12; v. 279; p. 265.
Atherton, Charles N. (See Sutter, J. H., and Atherton.)
Atherton, Joseph, Gardena, Calif. Antiskidding device for vehicles. No. 1,334,644; Mar. 23; v. 272; p. 624.
Atherton, Stanley E., Cleveland, Ohio. Safety-guard for use on trucks and automobiles. No. 1,354,444; Sept. 28; v. 278; p. 678.
Athimon, Francis, St. Mars la Jaille, France. Nippers for making piano-chord loops for aeroplanes. No. 1,330,229; Feb. 10; v. 271; p. 197.
Atkins, Earl F. (See Atkins, Frank K., and E. F.)
Atkins, Earl F., Arlington, assignor to H. T. Shriver, West Orange, N. J. Filter. No. 1,342,839; June 8; v. 275; p. 294.

Digitized by Google

Alphabetical list of patentees—Continued.

Atkins, Frank K. and E. F., New York, N. Y. Filter. No. 1,350,433; Aug. 24; v. 277; p. 620.
Atkins, George R., Memphis, Tenn. Pioneer-tractor. No. 1,354,714; Oct. 5; v. 279; p. 54.
Atkins, Thomas B., Canutillo, Tex. Silo-door. No. 1,341,533; May 25; v. 274; p. 749.
Atkins, Walter, assignor of one-third to W. J. Pedler and one-third to A. D. Plughoff, San Francisco, Calif. Child's velocipede. No. 1,336,879; Apr. 13; v. 273; p. 283.
Atkinson, Arthur F. (See Ullman, E. B., Simmonds, and Atkinson.)
Atkinson, Frederick C., Indianapolis, Ind. Impregnated charcoal. No. 1,361,131; Dec. 7; v. 281; p. 30.
Atkinson, Lloyd S., Los Angeles, Calif. Tire for vehicle-wheels. No. 1,346,074; July 6; v. 276; p. 148.
Atkinson, Thomas R. (See Breth, M., and Atkinson.)
Atlanta Lithographic and Printing Company. (See Stranders, Julien, assignor.)
Atlanta Utility Works. (See Moore, James W., assignor.)
Atlanta Utility Works. (See Thomason, Ernest K., assignor.)
Atlantic Hand Brake Corporation, The. (See Richards, Willard F., assignor.)
Atlantic Hand Brake Corporation. (See Sauvage, William H., assignor.)
Atlantic Metal Hose Company. (See Siegel, Samuel, assignor.)
Atlantic Refining Company, The. (See Kennedy, Charles F., assignor.)
Atlantic Refining Company, The. (See Nicholas, Howard M., assignor.)
Atlantic Service Company. (See Schaefer, Adolph O., assignor.)
Atlantic Welding Corporation. (See Gallor, Chester F., assignor.)
Atlas Bread Company. (See Hopkins, W. G., and Sullivan, assignors.)
Atlas Manufacturing Company. (See Billingsley, Percy L., assignor.)
Atlas Metal Parts Company. (See Smith, Adam M., assignor.)
Atlas Powder Company. (See Cook, R. M., and Harris, assignors.)
Atlas Powder Company. (See Given, G. C., McQuaid, and Long, assignors.)
Atlas Powder Company. (See Grant, H. L., and Haddow, assignors.)
Atlas Powder Company. (See Haddow, George, assignor.)
Atlas Powder Company. (See Hill, Roy L., assignor.)
Atlas Powder Company. (See Lebourveau, U. J., and Taylor, assignors.)
Atlas Powder Company. (See Rawlings, F. G., and McDaniel, assignors.)
Atlas Powder Company. (See Strane, Archibald J., assignor.)
Atlas Process Company. (See von Groeling, Albrecht F. G. C. P. J., assignor.)
Atock, George, Caracas, Venezuela. Liquid-fuel burner for furnaces of locomotive-boilers and for other purposes. No. 1,332,480; Mar. 2; v. 272; p. 58.
Atteberry, William A., assignor of one-fourth to O. A. Sewell and one-fourth to P. A. Fox, Coweta, Okla. Valve. No. 1,346,737; July 13; v. 276; p. 340.
Atterbury, Grosvenor, New York, N. Y. Process of and apparatus for making concrete slabs. No. 1,326,902; Jan. 6; v. 270; p. 3.
Atterbury, Grosvenor, New York, N. Y. Reinforced cellular structure. No. 1,349,868; Aug. 17; v. 277; p. 464.
Atwell, Lester H., Grove City, Pa. Hose-supporter. No. 1,360,072; Nov. 23; v. 280; p. 712.
Atwell, Robert L., Beloit, Wis. Traffic-signals for vehicles. No. 1,351,605; Aug. 31; v. 277; p. 912.
Atwell, Robert L., Atlanta, Ga. Combination camera and film case. No. 1,354,011; Sept. 28; v. 278; p. 590.
Atwood, A. L. (See Parmenter, Brady, assignor.)
Atwood, George F., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Speech-reproducing device. No. 1,337,304; Apr. 20; v. 273; p. 438.
Atwood, Harry A., Milwaukee, Wis. Chair. No. 1,346,110; July 13; v. 276; p. 216.
Atwood, Harry A., Milwaukee, Wis. Chair. No. 1,346,932; July 20; v. 276; p. 437.
Atwood, Harry A., assignor to Milwaukee Chair Company, Milwaukee, Wis. Chair. No. 1,359,145; Nov. 16; v. 280; p. 484.
Atwood, Harry N., assignor to The Veneer Products Company, Smithfield, N. C. Vehicle-wheel. No. 1,348,533; Aug. 3; v. 277; p. 78.
Atwood, Leonard, Boston, Mass. Fishing-reel. No. 1,358,049; Nov. 9; v. 280; p. 223.
Atwood, Leonard, Boston, Mass. Drawing attachment for circular looms. No. 1,359,655; Nov. 23; v. 280; p. 630.
Atwood, Seth B., Rockford, Ill. Door-bumper. No. 1,353,506; Sept. 21; v. 278; p. 445.
Atwood, Smith F. (See Wing, Daniel B., assignor.)
Atwood, Winfield A., Schenectady, N. Y., assignor to General Electric Company. Tripping mechanism. No. 1,331,086; Feb. 17; v. 271; p. 427
Au, Carl H., Washington, D. C. Flexible power-transmitting device. No. 1,331,311; Feb. 17; v. 271; p. 467.
Auberschek, Joseph, Milwaukee, Wis. Filtering device. No. 1,330,420; Feb. 10; v. 271; p. 232.
Aubert, Albert M., Billancourt, France. Firearm. No. 1,328,475; Jan. 20; v. 270; p. 397.
Aubert, Albert M., Billancourt, France. Furnace. No. 1,353,818; Sept. 28; v. 278; p. 551.
Aubery, James M., Los Angeles, Calif., assignor to Priestly Coupler Company. Differential axle. No. 1,344,933; June 29; v. 275; p. 897.
Auble, James H., Cincinnati, Ohio. Expansible and contractible tool. No. 1,332,455; Mar. 2; v. 272; p. 54.
Aubry-Schaltenbrandt, Francis, La Chaux-de-Fonds, Switzerland. Night-watchman's checking apparatus. No. 1,328,223; Jan. 13; v. 270; p. 313.
Auchincloss, William K., assignor to American Car and Foundry Company, New York, N. Y. Tank-anchor for tank-cars. No. 1,336,410; Apr. 13; v. 273; p. 193.
Auden, Arthur C., Westminster, London, England. Extracting potassium salts from potassium-bearing minerals. No. 1,334,940; Mar. 23; v. 272; p. 682.
Audi, Lucie T., Mohawk, N. Y. Bed attachment for bedpans. No. 1,363,550; Dec. 28; v. 281; p. 645.
Audianne, Paul, Marseille, France. Heat-exchange apparatus. No. 1,358,050; Nov. 9; v. 280; p. 224.
Audible Telephone Company, The. (See Birrell, William and J., assignors.)
Auer, Frank W., Syracuse, N. Y. Water-closet construction. No. 1,333,368; Mar. 9; v. 272; p. 278.
Auerbach, Julia H., Hollywood, Calif. Corset-fastening. No. 1,327,078; Jan. 6; v. 270; p. 38.
Auerbach, Julia H., Los Angeles, Calif. Corset-fastening. No. 1,351,728; Sept. 7; v. 278; p. 3.
Aufderheide, Edward W., Chicago, Ill. Beading. No. 1,353,885; Sept. 28; v. 278; p. 564.
Auflero, Emanuel, Brooklyn, N. Y. Signal-horn. No. 1,333,585; Mar. 9; v. 272; p. 319.
Augensen, August M., Maywood, Ill., assignor to American Can Company, New York, N. Y. Can-feeding mechanism. No. 1,326,903; Jan. 6; v. 270; p. 8.
Auger, Joseph T., Minneapolis, assignor of three-eighths to E. M. Ferguson, St. Paul, and three-eighths to E. Du Lac, Minneapolis, Minn. Rotary pump. No. 1,348,771; Aug. 3; v. 277; p. 123.
Auger, Joseph T., Minneapolis, assignor of three-eighths to E. M. Ferguson, St. Paul, and three-eighths to E. Dulac, Minneapolis, Minn. Rotary pump. No. 1,348,772; Aug. 3; v. 277; p. 124.
Auger, Joseph T., Minneapolis, assignor of three-eighths to E. M. Ferguson, St. Paul, and three-eighths to E. Dulac, Minneapolis, Minn. Rotary pump. No. 1,348,773; Aug. 3; v. 277; p. 124.
Auger, Victor, Montreal, Quebec, Canada. Gas-generator. No. 1 355,443; Oct. 12; v. 279; p. 249.
Augestad, Arent, Marka Brandbu Station, Hadeland, Norway. Inlay-sole for the prevention of the development of galls. No. 1,352,865; Sept. 14; v. 278; p. 260.
Augir, Lloyd D., Potlatch, Idaho. Door-latch. No. 1,330,773; Feb. 17; v. 271; p. 367.
Auglaize Furniture Company, The. (See Lietz, Herman C., assignor.)
August Mietz Corporation. (See Hoesel, Harry T., assignor.)
Augustine, William F., Chicago, Ill. Hot-water and ice bandage. No. 1,345,906; July 6; v. 276; p. 114.
Augustus, Albert A., Cleveland, Ohio. Vehicle-top. No. 1,340,518; May 18; v. 274; p. 484.
Auld, Hugh R., assignor to T. L. Harkins, Boston, Mass. Vulcanizing apparatus. No. 1,360,982; Nov. 30; v. 280; p. 959.
Auld, John S. D. (See Hermani, H., and Auld.)
Aulman, Harry E., assignor of one-half to J. A. Adelsbach, Visalia, Calif. Corn and cane harvester. No. 1,362,912; Dec. 21; v. 281; p. 480.
Ault, Eugene B., Calallen, Tex. Bee-cage. No. 1,353,137; Sept. 21; v. 278; p. 373.
Ault, Jesse F. A., Cambridge, Ohio. Train-order reel. No. 1,332,790; Mar. 2; v. 272; p. 118.
Ault, John H., and J. T. Heaton, Chicago, Ill. Throttle-operating mechanism. No. 1,331,408; Feb. 17; v. 271; p. 486.
Aupperle, James H. (See Beck, W. J., and Aupperle.)
Aurand, Arthur G., Los Angeles, Calif. Making concrete units. No. 1,336,712; Apr. 13; v. 278; p. 251.
Aurora Door Hanger & Specialty Company. (See Weis, Paul B., assignor.)
Aurora Steel Products Company. (See Fohn, Adolf E., assignor.)
Aurynger, John J., Brooklyn, N. Y. Detector-condenser. No. 1,359,310; Nov. 16; v. 280; p. 516.
Ausen, Norman T. (See Ausen, Ole N. and N. T.)
Ausen, Ole N. and N. T., Kenosha, Wis. Poultry-roost. No. 1,358,608; Nov. 9; v. 280; p. 335.
Auslander, Nathan, Philadelphia, Pa. Christmas-tree holder. No. 1,334,880; Mar. 23; v. 272; p. 670.
Austin, Allen C., Syracuse, N. Y. Pressing-machine. No. 1,335,151; Mar. 30; v. 272; p. 781.
Austin, Allen C., Syracuse, N. Y. Pressing-machine. No. 1,354,232; Sept. 28; v. 278; p. 635.

Digitized by Google

Austin, Arthur O., Barberton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Insulator. No. 1,360,352; Nov. 30; v. 280; p. 835.
Austin, Basil G., assignor to Austin Organ Company, Hartford, Conn. Electropneumatic organ-action. No. 1,335,417; Mar. 30; v. 272; p. 830.
Austin, Claude L., Sullivan, Ind. Crate. No. 1,335,635; Mar. 30; v. 272; p. 871.
Austin, Cyrus B., administrator. (See Austin, Raymond B.)
Austin, Eber C., Wahoo, Nebr. Valve-spring lifter. No. 1,349,934; Aug. 17; v. 277; p. 476.
Austin, Ellsworth W., Plymouth, Conn. Vaporising-stopper. No. 1,337,189. Apr. 20; v. 273; p. 416.
Austin, Ernest C., Berkeley, Calif. Nut-lock. No. 1,358,496; Nov. 9; v. 280; p. 313.
Austin, Fred H. (See McIntosh, Louis H., assignor.)
Austin, Fred T., U. S. Army. Badge and means for attaching same to garments. No. 1,356,483; Oct. 19; v. 279; p. 492.
Austin, Frederick C. (See Beatson, Hans J., assignor.)
Austin, Frederick C. (See French, James C., assignor.)
Austin, Frederick C. (See Rosendahl, Nils M., assignor.)
Austin, Frederick C. (See Stahl, Charles E., assignor.)
Austin, Frederick G. (See Anderson, Vincent C., assignor.)
Austin, Hamilton L., Washington, D. C. Shaving-brush. No. 1,355,026; Oct. 5; v. 279; p. 115.
Austin, Henry K., Reading, Mass. Tire-inflating pump. No. 1,335,718; Apr. 6; v. 273; p. 3.
Austin, Herbert. (See MacGregor, James, assignor.)
Austin, Herbert, Bromsgrove, England. Mounting an aeroplane-propeller and carrying a gun which fires axially through the propeller. No. 1,329,156; Jan. 27; v. 270; p. 555.
Austin, Herbert, Bromsgrove, England. Road-wheel of the sheet-metal type. No. 1,340,697; May 18; v. 274; p. 518.
Austin, Herbert, Bromsgrove, England. Time-fuse for explosive shells or bombs. No. 1,342,413; June 8; v. 275; p. 200.
Austin, Herbert, Bromsgrove, England. Wheel-caster. No. 1,343,758; June 15; v. 275; p. 538.
Austin, Leslie W., San Jose, Calif. Treating manganese silver ores. No. 1,327,974; Jan. 13; v. 270; p. 266.
Austin Organ Company. (See Austin, Basil G., assignor.)
Austin, Raymond B. (See Sheler, J. C., and Austin.)
Austin, Raymond B., deceased, Delaware, Ohio; C. B. Austin, administrator. Ball-bearing counter. No. 1,342,733; June 8; v. 275; p. 272.
Austin, Walter M. (See Mahoney, J. N., and Austin.)
Austin, Walter S., Pittsburgh, Pa. Nurling-tool. No. 1,349,254; Aug. 10; v. 277; p. 271.
Austin, Walter S., Pittsburgh, assignor to J. S. Wincraatz, Wilkinsburg, Pa. Spike-extractor. No. 1,354,532; Oct. 5; v. 279; p. 17.
Austin, William H., Greenville, S. C. Automobile-lock. No. 1,358,813; Nov. 16; v. 280; p. 421.
Austral Window Co. (See Kellogg, Waldo S., assignor.)
Austral Window Company. (See Myers, Winter W., assignor.)
Auto Dimmer Company, The. (See Patton, Oliver C., assignor.)
Auto Milking Machine Company, The. (See Robertson, Archibald B., assignor.)
Auto & Motor Truck Axle Company, The. (See Young, Clifford H.)
Auto-Ordnance Corporation. (See Eickhoff, T. H., and Payne, assignors.)
Auto-Ordnance Corporation. (See Eickhoff, Theodore H., assignor.)
Auto-Ordnance Corporation. (See Eickhoff and Tunks, assignors.)
Auto-Ordnance Corporation. (See Fisher, Leslie D., assignor.)
Auto-Ordnance Corporation. (See Graham, Oliver B., assignor.)
Auto-Ordnance Corporation. (See Payne, Oscar V., assignor.)
Auto Ordnance Corporation. (See Tunks, Charles A., assignor.)
Au-To Play Goods Company. (See Elzey, Edgar P., assignor.)
Auto Pneumatic Action Co. (See Heller, Henry R., assignor.)
Auto Pneumatic Action Company. (See Hulder, Joseph P., assignor.)
Auto Safety Device Company. (See Olson, John A., assignor.)
Auto Slyde & Moving Picture Machine Co. (See Kiefer, Maximilian, assignor.)
Auto Supply Manufacturing Company, The. (See Tryon, Edward E., assignor.)
Auto Utilities Manufacturing Company. (See Breidert, George C., assignor.)
Automatic Bookkeeping Register Company. (See Hayes, B. P., and Laughlin, assignors.)
Automatic Bookkeeping Register Company. (See Hayes, Benjamin P., assignor.)
Automatic Carburetor Co. (See Church, Edmund S., assignor.)
Automatic Controller and Manufacturing Co. (See Redfield, C., and Hartley, assignors.)
Automatic Counter Sinking Tool Company. (See Ehlers, George R., assignor.)
Automatic Elec. Company. (See Meyer, Trygve E., assignor.)
Automatic Electric Co. (See Truby, Franklin J., assignor.)
Automatic Electric Company. (See Blessing, John G., assignor.)
Automatic Electric Company. (See Burfeind, Raymond H., assignor.)
Automatic Electric Company. (See Campbell, Wilson L., assignor.)
Automatic Electric Company. (See Erickson, John, assignor.)
Automatic Electric Company. (See Hershey, Harry E., assignor.)
Automatic Electric Company. (See Hulit, John A., assignor.)
Automatic Electric Company. (See Jacobsen, Emil, assignor.)
Automatic Electric Company. (See Martin, Talbot G., assignor.)
Automatic Electric Company. (See Martin, Talbot G., assignor.) (Reissue.)
Automatic Electric Company. (See Mellinger, Edward A., assignor.)
Automatic Electric Company. (See Owen, William W., assignor.)
Automatic Electric Company. (See Powell, Winfred T., assignor.)
Automatic Electric Company. (See Richardson, Rodney G., assignor.)
Automatic Electric Company. (See Schwartz, Michael, assignor.)
Automatic Electric Company. (See Shomaker, George E., assignor.)
Automatic Electric Company. (See Wicks, John, assignor.)
Automatic Electric Company. (See Willis, Bernard D., assignor.)
Automatic Electric Company. (See Yanochowski, G. A., and Hershey, assignors.)
Automatic Electric Company. (See Yanochowski, George A., assignor.)
Automatic Gold Chain Company. (See Speidel, Edwin F. M., assignor.)
Automatic Machinery Company. (See McNaught, Harry W., assignor.)
Automatic Reclosing Circuit Breaker Company, The. (See Anderson, Arvid R., assignor.)
Automatic Reclosing Circuit Breaker Company, The. (See Raney, Estell C., assignor.)
Automatic Sprinkler Company of America. (See Hamilton, John B., assignor.)
Automatic Storage Platform Company. (See Young, George H., assignor.)
Automatic Straight Air Brake Company. (See Neal, Spencer G., assignor.)
Automotive Corporation, The. (See Mowbray, James W., assignor.)
Automotive Development Co. (See Huggins, M. J., and Dressler, assignors.)
Automotive Development Co. (See Huggins, Merion J., assignor.)
Automotive Manufacturing Company, The. (See Moore, H. C., and Butler, assignors.)
Automotive Parts Company. (See Schwitzer, Louis, assignor.)
Automotive Tractor Corporation of America. (See Schofield, George L., assignor.)
Automotive Tractor Corporation of America. (See Scully, George H., assignor.)
Autopiano Company. (See La Joie, Herbert J., assignor.)
Autopoint Pencil Company. (See Bergen, George B., assignor.)
Autopoint Pencil Company. (See Keeran, Charles R., assignor.)
Autopticon Company. (See Mengel, William R., assignor.)
Autorino, John, Middletown, N. Y. Lubricating device for riveting-hammers. No. 1,343,104; June 8; v. 275; p. 346.
Autosales Corporation. (See Grover, A. D., and Barber, assignors.) (Reissue.)
Autosales Corporation. (See Grover, Albert D., assignor.)
Auxiliary Spring Company, A. R. G. (See Groff, Angus R., assignor.)
Aved, Maurice H., Harvey, N. D. Invisible suspenders. No. 1,356,955; Oct. 26; v. 279; p. 632.
Averill, Rex G., assignor to The Ohio Brass Company, Mansfield, Ohio. Trolley-tender. No. 1,353,507; Sept. 21; v. 278; p. 445.
Averill, Rex G., assignor to The Ohio Brass Company, Mansfield, Ohio. Trolley-tender. No. 1,353,508; Sept. 21; v. 278; p. 445.
Averill, Rex G., and C. H. Tomlinson; said Averill assignor to The Ohio Brass Company, Mansfield, Ohio. Multiple electric air and car coupling. No. 1,353,557; Sept. 21; v. 278; p. 455.
Averill, Willard C., Jr. (See Andrews and Averill.)

Digitized by Google

Alphabetical list of patentees—Continued.

Averill, William H., assignor to Owl Supply Company, Boston, Mass. Copy-holder. No. 1,328,476; Jan. 20; v. 270; p. 397.
Avery, Benjamin B., assignor, by mesne assignments, to Germproof Cup Corporation, New York, N. Y. Drinking-cup. No. 1,341,831; June 1; v. 275; p. 43.
Avery, Benjamin B., New York, N. Y., and A. Nelson, Newark, N. J., assignors, by mesne assignments, to Germproof Cup Corporation, New York, N. Y. Manufacturing sanitary drinking-cups. No. 1,341,832; June 1; v. 275; p. 43.
Avery, Benjamin B., and A. Nelson, Newark, N. J., assignors, by mesne assignments, to Germproof Cup Corporation, New York, N. Y. Sanitary drinking-cup and manufacturing such cups. No. 1,341,835; June 1; v. 275; p. 44.
Avery, Charles E., Trenton, assignor to Manhattan Electrical Supply Company, Inc., Jersey City, N. J. Electromagnet. No. 1,338,548; Apr. 27; v. 273; p. 742.
Avery Company. (See Bartholomew, John B., assignor.)
Avery Company. (See Brandon, William J., assignor.)
Avery Company. (See Springer, William N., assignor.)
Avery Company. (See Van Valkenburg, Lester R., assignor.)
Avery Company. (See Watson, Frank C., assignor.)
Avery, Courtney C. (See Underhill, W. A., and Avery.)
Avery, David, and R. T. D. Williams, Risdon, Hobart, Tasmania, assignors to Electrolytic Zinc Company of Australasia Proprietary Limited, Melbourne, Victoria, Australia. Treatment of zinc solutions preparatory to the recovery of zinc by electrodeposition. No. 1,347,200; July 20; v. 276; p. 489.
Avery, Edward R., Three Forks, Mont. Wheel-puller. No. 1,357,136; Oct. 26; v. 279; p. 667.
Avery, Frank C., and R. E. Thompson, San Diego, Calif. Bottom for liquid-heating vessels. No. 1,342,888; June 8; v. 275; p. 303.
Avery, Harold T. (See Pomeroy, H. D., Avery, and Wheeler.)
Avery, Irving F., assignor to J. H. Press, Chicago, Ill. Dump-wagon or the like. No. 1,334,730; Mar. 23; v. 272; p. 640.
Avery, Seth S., Pleasant Lake, Ind. Air-pump. No. 1,347,434; July 20; v. 276; p. 536.
Avery, True M., assignor to Arrow-Grip Manufacturing Co., Inc., Glens Falls, N. Y. Chain-connector. No. 1,350,952; Aug. 24; v. 277; p. 719.
Avery, True M., Glens Falls, assignor to Union Bag & Paper Corporation, New York, N. Y. Bag-packaging press. No. 1,359,311; Nov. 16; v. 280; p. 516.
Avery, True M., assignor to Arrow-Grip Manufacturing Co., Inc., Glens Falls, N. Y. Chain-connector. No. 1,364,018; Dec. 28; v. 281; p. 735.
Avery, William G., Palmesville, Ohio. Foundry-barrel. No. 1,356,422; Oct. 19; v. 279; p. 481.
Avillar, Manuel D., New York, N. Y. Machine for slotting piston-rings and similar objects. No. 1,353,558; Sept. 21; v. 278; p. 456.
Avillar, Manuel D., New York, N. Y. Forming spring packing-rings. No. 1,359,857; Nov. 23; v. 280; p. 670.
Avis, William H., Hamden, Conn. Pull-strap for laced shoes. No. 1,342,149; June 1; v. 275; p. 105.
Aviss, Alfred, Rugby, England. Cardboard and like boxes which are made collapsible. No. 1,338,664; May 4; v. 274; p. 3.
Avram, Mois H., New York, N. Y., assignor to Slocum Laboratories, Inc., Newark, N. J. Efficiency-recorder. No. 1,339,381; May 11; v. 274; p. 211.
Avrutik, Joseph, Yonkers, N. Y. Method of and apparatus for separating liquids and solids. No. 1,360,708; Nov. 30; v. 280; p. 906.
Awischus, August, Filley, Nebr. Lifting-grapple. No. 1,350,663; Aug. 17; v. 277; p. 499.
Axberg, Alfred C., Springvale, Me. Receptacle-support. No. 1,339,491; May 11; v. 274; p. 232.
Axe, Roy T., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y. Screen for double railway-car windows. No. 1,359,146; Nov. 16; v. 280; p. 484.
Axe, Roy T., and E. F. Chaffee, assignors to The O. M. Edwards Company Inc., Syracuse, N. Y. Brake for window-sashes. No. 1,349,037; Aug. 10; v. 277; p. 228.
Axelman, Harry W. (See Axelman, Mayer, & H. W.)
Axelman, Mayer, and H. W. Axelman, Chicago, Ill. Brief and other carrying case. No. 1,329,574; Feb. 3; v. 271; p. 43.
Axen, John L., Detroit, Mich., assignor to National Gauge & Equipment Company, La Crosse, Wis. Device for inserting and adjusting bearings for staffs, spindles, and the like. No. 1,342,840; June 8; v. 275; p. 294.
Axilrod, Meyer, assignor to Safety Machinery Corporation, New York, N. Y. Bearing for clutch and pulley mechanism. No. 1,347,995; July 27; v. 276; p. 703.
Axt, George J., Passaic, N. J. Sewing-machine attachment. No. 1,361,356; Dec. 7; v. 281; p. 75.
Axtell, Clinton J., Schenectady, N. Y., assignor to General Electric Company. Car-lighting system. No. 1,330,571; Feb. 10; v. 271; p. 260.
Ayala, Angel M., Madrid, Spain. Industrial product comprising a soldering substance for aluminium with the process for obtaining it. No. 1,333,257; Mar. 9; v. 272; p. 253.
Ayars, Charles H., Salem, N. J. Can-distributing device. No. 1,352,718; Sept. 14; v. 278; p. 230.
Ayer, William B., Berkeley, Calif. Signal device for automobiles. No. 1,362,665; Dec. 21; v. 281; p. 433.
Ayers, Charles B., Philadelphia, Pa. Artificial stone for roofing. No. 1,335,038; Mar. 30; v. 272; p. 760.
Ayers, Elwood B. (See Schwartz, W. M., and Ayers.)
Aygarn, Christopher L., Morris, Ill. Hopper. No. 1,356,587; Oct. 26; v. 279; p. 560.
Ayling, Robert W., West New York, N. J. Butting-tool; No. 1,352,341; Sept. 7; v. 278; p. 120.
Aylor, William E., Dayton, Ohio. Cotter-extractor, No. 1,336,938; Apr. 13; v. 273; p. 294.
Aylor, William E., and M. Rauh, Dayton, Ohio. Cotter-key. No. 1,336,498; Apr. 13; v. 273; p. 209.
Aylsworth, Adelaide M., executors, *et al.* (See Aylsworth, J. W., and Aiken.)
Aylsworth, Harold D., assignor to Klix Manufacturing Company, Chicago, Ill. Film-magazine for motion-picture cameras. No. 1,332,374; Mar. 2; v. 272; p. 39.
Aylsworth, Jonas W., deceased, (by A. M. Aylsworth and Savings Investment and Trust Company, executors,) and E. L. Aiken, East Orange, assignors, by mesne assignments, to New Jersey Patent Company, West Orange, N. J. Matrix for producing sound-records. No. 1,345,115; June 29; v. 275; p. 931.
Aylsworth, Jonas W., deceased, A. M. Aylsworth and Savings Investment and Trust Company, executors, and E. L. Aiken, East Orange, N. J., assignors, by mesne assignments, to New Jersey Patent Company, West Orange, N. J. Producing sound-records. No. 1,347,668; July 27; v. 276; p. 639.
Aylward, Henry W., Brooklyn, N. Y. Expansion-bolt. No. 1,349,998; Aug. 17; v. 277; p. 489.
Ayotte, Joseph R., Chicago, Ill. Hand-tool. No. 1,349,553; Aug. 17; v. 277; p. 403.
Ayotte, Joseph R., assignor of one-half to J. X. Rivard, Chicago, Ill. Spark-plug. No. 1,363,212; Dec. 28; v. 281; p. 579.
Ayotte, Phillip J., McCarthy, Alaska. Dust-conveyer for drills. No. 1,334,430; Mar. 23; v. 272; p. 585.
Ayraud, Jules J. (See McCullar, W. A., and Ayraud.)
Ayres, Charles S., Riverton, N. J. Sight-indicator for dispensing-pumps. No. 1,345,733; July 6; v. 275; p. 79.
Ayres, Elwood B., and T. H. Rhoads, assignors to The Philadelphia Textile Machinery Company, Philadelphia, Pa. Wetting-out machine for leather. No. 1,357,021; Oct. 26; v. 279; p. 645.
Ayres, Elwood B., and W. H. Rihl, assignors to The Philadelphia Textile Machinery Company, Philadelphia, Pa. Conveying means for driers. No. 1,358,497; Nov. 9; v. 280; p. 313.
Ayres, George W., Pungoteague, Va. Vine-lifter. No. 1,339,840; May 11; v. 274; p. 299.
Ayres, Richard S., Brookline, Mass. Manufacture of boot and shoe heels. No. 1,327,851; Jan. 13; v. 270; p. 248.
Ayres, Richard S., Brookline, Mass. Process and apparatus for heel manufacture. No. 1,350,852; Aug. 24; v. 277; p. 701.
Ayres, Seymour A., East Lansing, Mich. Adjustable journal-box. No. 1,340,102; May 11; v. 274; p. 348.
Ayres, Walter W. (See Cassingham and Ayres.)
Ayres, William H., Baltimore, Md., assignor to American Can Company, New York, N. Y. Head for truing dies. No. 1,332,481; Mar. 2; v. 272; p. 59.
Ayrton, Hertha, Hyde Park, London, England. Propulsion of air and other gases or fluids. No. 1,327,975; Jan. 13; v. 270; p. 266.
Azpiazu, Aurelio, Habana, Cuba. Apparatus for filtering sugar-cane juice or the like. No. 1,332,877; Mar. 9; v. 272; p. 185.
B & D Manufacturing Company *et al.* (See Howes, Willis E., assignor.)
B-V Milking Machine Company. (See Somers, Charles E., assignor.)
B. Z. B. Knitting Co. (See Burson, Wilson W., assignor.)
Baader, Stephan. (See Hough, S., and Baader.)
Baader, Stephan. (See Hough and Baader.)
Babcock, Clifford D., assignor of one-half to J. Neilson, New York, N. Y. Ionized-chamber device. No. 1,341,006; May 25; v. 274; p. 648.
Babcock, Courtlandt W., Stonington, Conn. Chart-holder. No. 1,346,691; July 13; v. 276; p. 331.
Babcock, Dudley P. (See Blake, Henry E., assignor.)
Babcock, Fay L., Largo, Fla. Toy. No. 1,353,703; Sept. 21; v. 278; p. 486.
Babcock, Guilford C., Evanston, assignor to Wirebounds Patents Company, Chicago, Ill. Box and making same. No. 1,334,271; Mar. 16; v. 272; p. 508.
Babcock, Harold C., and J. H. McCreary, assignors to The Thornburgh Manufacturing Company, Bowling Green, Ohio. Tandem soil pulverizer and packer. No. 1,337,425; Apr. 20; v. 273; p. 460.
Babcock, Howard, assignor of one-fifth to G. Honetchlager, Stanford, Mont. Metallic fencepost. No. 1,329,492; Feb. 3; v. 271; p. 28.
Babcock, Oliver M., Chicago, Ill., assignor, by mesne assignments, to Wirebounds Patents Company, Kittery, Me. Metal-bound box. No. 1,334,068; Mar. 16; v. 272; p. 470.

Digitized by Google

Babcock Printing Press Manufacturing Company, The. (See English, Fred S., assignor.)
Babcock & Wilcox Company, The. (See Bell, John E., assignor.)
Babcock & Wilcox Company, The. (See Irish, David J., assignor.)
Babcock & Wilcox Company, The. See Jacobus, David S., assignor.)
Babcock & Wilcox Company, The. (See Kerr, Howard J., assignor.)
Babcock & Wilcox Company, The. (See Pratt, Arthur D., assignor.)
Babecki, Kostantyn, Winfield, N. Y. Torpedo-guard. No. 1,337,502; Apr. 20; v. 273; p. 475.
Babek, Frank, Fort Worth, Tex. Derrick. No. 1,359,948; Nov. 23; v. 280; p. 688.
Babendreer, Albert, Ocean Springs, Miss., assignor to Whole Grain Wheat Company, Phoenix, Ariz. Treating food. No. 1,327,220; Jan. 6; v. 270; p. 64.
Babich, George G., New York, N. Y. Safety-pockets. No. 1,330,572; Feb. 10; v. 271; p. 261.
Babis, Harry A., Philadelphia, Pa. Coating composition. No. 1,330,421; Feb. 10; v. 271; p. 233.
Babson, Henry B., Chicago, Ill., and A. C. Macartney, Syracuse, N. Y. Milking-machine system. No. 1,329,451; Feb. 3, v. 271; p. 20.
Babson, Henry B., Chicago, Ill., and A. C. Macartney, Syracuse, N. Y. Milking-machine. No. 1,329,452; Feb. 3; v. 271; p. 20.
Babson, Henry B., assignor to Pine Tree Milking Machine Company, Chicago, Ill. Valve-mounting for milking-machines. No. 1,333,460; Mar. 9; v. 272; p. 295.
Babson, Henry B., assignor to Pine Tree Milking Machine Company, Chicago, Ill. Valve-mounting for milking-machines. No. 1,333,461; Mar. 9; v. 272; p. 295.
Babson, Henry B., assignor to Pine Tree Milking Machine Company, Chicago, Ill. Pulsator for milking-machines. No. 1,335,953; Apr. 6; v. 273; p. 47.
Bach, Edward, Livingston, Mont. Automatic gate. No. 1,343,023; June 8; v. 275; p. 330.
Bach, Leopold, and E. Kuebler, New York, N. Y. Flower-stand. No. 1,334,069; Mar. 16; v. 272; p. 470.
Bachand, Ludger, Montreal, Quebec, Canada. Animal-trap. No. 1,359,217; Nov. 16; v. 280; p. 498.
Bacharach, Herman, assignor to Bacharach Industrial Instrument Company, Pittsburgh, Pa. Gage. No. 1,358,692; Nov. 16; v. 280; p. 397.
Bacharach Industrial Instrument Company. (See Bacharach, Herman, assignor.)
Bacharach, Samuel, Philadelphia, Pa. Finger-ring. No. 1,327,606; Jan. 13; v. 270; p. 197.
Bachardy, Stephen J., New York, N. Y., and J. Kiss, South Bethlehem, Pa., assignors to Self Change Making Drawer Co., Allentown, Pa. Paying attachment for cash-registers. No. 1,344,786; June 29; v. 275; p. 869.
Bache-Wiig, Carl, Portland, Me. Preparing pulp. No. 1,327,221; Jan. 6; v. 270; p. 65.
Bacher, David, New York, N. Y. Display device. No. 1,356,588; Oct. 26; v. 279; p. 560.
Bachila, Fred, Montreal, Quebec, Canada. Circuit-closer for letter-boxes. No. 1,345,116; June 29; v. 275; p. 931.
Bachman, Arthur and H., Philadelphia, Pa. Semaphore for automobiles. No. 1,336,063; Apr. 6; v. 273; p. 68.
Bachman, Fayette H., Oakland, Calif. Sanitary brush. No. 1,332,156; Feb. 24; v. 271; p. 646.
Bachman, Frank E., Port Henry, N. Y. Treating titanium solutions. No. 1,354,940; Oct. 5; v. 279; p. 98.
Bachman, Harry. (See Bachman, Arthur and H.)
Bachman, Robert A., East Orange, and C. W. Norton, assignors to Edison Storage Battery Company, West Orange, N. J. Safety device. No. 1,331,795; Feb. 24; v. 271; p. 579.
Bachman, Siegmund, Chicago, Ill. Box. No. 1,354,012; Sept. 28; v. 278; p. 590.
Bachman, William F., Chicago, Ill. Balance. No. 1,354,275; Sept. 28; v. 278; p. 644.
Bachmann, Albert W., Laporte, Ind. Water-heater for furnaces and the like. No. 1,351,606; Aug. 31; v. 277; p. 912.
Bachmann, Albert W., Laporte, Ind. Union-ferrule. No. 1,352,342; Sept. 7; v. 278; p. 120.
Bachrach, Leopold, New York, N. Y. Card-index directory. No. 1,351,730; Sept. 7; v. 278; p. 8.
Bäckdahl, Carl G. A., assignor to United States Tire Company, Stockholm, Sweden. Expansible core for india-rubber articles. No. 1,354,459; Sept. 28; v. 278; p. 681.
Backer, Christian B., Montreal, Quebec, Canada. Metal alloy. No. 1,341,774; June 1; v. 275; p. 32.
Backer, Elmer F., Davenport, Iowa. Geared locomotive. No. 1,360,709; Nov. 30; v. 280; p. 906.
Backert, Henry. (See Mertens, P., and Backert.)
Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Company, New York, N. Y. Compression, storage, &c., of ethylene. No. 1,339,431; May 11; v. 274; p. 220.
Backinger, Christian. (See Newlon, J. B., and Backinger.)
Backmire, George H., Collegeville, Pa. Smoke and fume arrester for gas-ranges. No. 1,360,073; Nov. 23; v. 280; p. 713.
Backstrom, Fridolf F., assignor to Western Felt Works, Chicago, Ill. Belt-fastener. No. 1,327,798; Jan. 13; v. 270; p. 233.
Backus, Albert, Okmulgee, Okla. Golf-club. No. 1,336,671; Apr. 13; v. 273; p. 243.
Backus, John C., Smethport, Pa. Photographic-film holder. No. 1,363,217; Dec. 28; v. 281; p. 580.
Bacmire, George H., Collegeville, Pa. Beater for removing dust and dirt from carpets or the like. No. 1,343,895; June 22; v. 275; p. 629.
Baco Electric Co. (See Nelson, Nels A., assignor.)
Bacon, George M., Salt Lake City, Utah. Multiplying-machine. No. 1,338,274; Apr. 27; v. 273; p. 691.
Bacon, James H., Hunter, Mo. Tie. No. 1,329,692; Feb. 3; v. 271; p. 65.
Bacon, Lee O. (See Zuck, O. C., and Bacon.)
Bacon, Nathaniel T., Peace Dale, R. I., assignor to The Solvay Process Company, Solvay, N. Y. Treating alkaline water. No. 1,330,573; Feb. 10; v. 271; p. 261.
Bacon, Raymond F., Pittsburgh, Pa., assignor to Metals Recovery Company, New York, N. Y. Flotation of coal. No. 1,329,493; Feb. 3; v. 271; p. 28.
Bacon, Raymond F., B. T. Brooks, Pittsburgh, Pa., and C. W. Clark, Chicago, Ill., assignors to Gulf Refining Company, Pittsburgh, Pa. Apparatus for the manufacture of gasolene. No. 1,334,731; Mar. 23; v. 272; p. 640.
Bacon, William M., assignor to Enameled Steel Sign Company, Chicago, Ill. Printing-machine. No. 1,338,165; Apr. 27; v. 273; p. 671.
Badalamenti, Carlo, Detroit, Mich. Mute for stringed instruments. No. 1,333,827; Mar. 16; v. 272; p. 425.
Badeau, Harry U., assignor to The Bryant Electric Company, Bridgeport, Conn. Switch-handle. No. 1,341,611; May 25; v. 274; p. 764.
Badeker, John, assignor to Chicago Standard Metallic Packing Company, Omaha, Nebr. Metallic rod-packing. No. 1,338,206; Apr. 27; v. 273; p. 678.
Badenhausen, John P., Philadelphia, Pa. Riveting-machine and riveting. No. 1,340,361; May 18; v. 274; p. 454.
Badenhausen, John P., Philadelphia, Pa. Superheater. No. 1,349,554; Aug. 17; v. 277; p. 403.
Badenhausen, John P., Philadelphia, Pa. Steam-boiler. No. 1,351,324; Aug. 31; v. 277; p. 856.
Bader, Gustav A., Rochester, N. Y. Sighting device for firearms. No. 1,344,973; June 29; v. 275; p. 904.
Badger, Arthur C., Newton, assignor to E. B. Badger & Sons Company, Boston, Mass. Holder for wood being distilled. No. 1,338,667; May 4; v. 274; p. 3.
Badger, Arthur C., Newton, Mass. Compound still. No. 1,362,666; Dec. 21; v. 281; p. 433.
Badger, E. B., & Sons Company. (See Badger, Arthur C., assignor.)
Badger, George L., Quincy, Mass. Internal-combustion engine. No. 1,334,010; Mar. 16; v. 272; p. 459.
Badger Manufacturing Corporation. (See Isrig, Walter V., assignor.)
Badger Manufacturing Corporation. (See Lindemer, Bernhardt A., assignor.)
Badger Meter Manufacturing Company. (See Krueger, Emil M., assignor.)
Badger, Thomas N., Berkeley, Calif., and W. G. Smith, Wallace, Idaho. Disappearing stairway. No. 1,344,371; June 22; v. 275; p. 723.
Badger Tool Company. (See Gardner, Edward B., assignor.)
Badier, Louis G., and L. B. Holliday, assignors to L. B. Holliday & Co., Limited, Huddersfield, England. Manufacture of picric acid. No. 1,349,802; Aug. 17; v. 277; p. 451.
Badoian, Vartan K., Lawrence, Mass. Shuttle-guard for looms. No. 1,329,157; Jan. 27; v. 270; p. 555.
Baechtel, Warren M., *et al.* (See Barnhart, Clarence V., assignor.)
Baehr, George, and E. L. Messler, Pittsburgh, Pa. Deflecting-wall for furnaces. No. 1,336,499; Apr. 13; v. 273; p. 209.
Baehr, Hermine, Baltimore, Md. Sterilizer-rack. No. 1,344,252; June 22; v. 275; p. 698.
Baehr, Hermine, Baltimore, Md. Safety attachment for gas-stove. No. 1,344,253; June 22; v. 275; p. 698.
Baekeland, Leo H., assignor to General Bakelite Company, New York, N. Y. Potentially reactive composition and making same. No. 1,354,154; Sept. 28; v. 278; p. 620.
Baender, Charles L., Oakland, Calif., assignor, by mesne assignments, to The Torrington Company, Torrington, Conn. Carpet-sweeping appliance. No. 1,327,456; Jan. 6; v. 270; p. 107.
Baender, Charles L., Oakland, Calif. Snubber. No. 1,337,878; Apr. 20; v. 273; p. 547.
Baer, Abe, *et al.* (See Bragg, Charles T., assignor.)
Baer, Joseph E. (See Marinsky, Louis, assignor.)
Baer, Max, *et al.* (See Bragg, Charles T., assignor.)
Baer, Max. New York, N. Y. Bronze powder and making same. No. 1,347,927; July 27; v. 276; p. 691.
Baer, Max, New York, N. Y. Bronze powder. No. 1,347,928; July 27; v. 276; p. 691.
Baer, Max, New York, N. Y. Building material. No. 1,357,375; Nov. 2; v. 280; p. 33.
Baer, Samuel H. (See George, Alexander W., assignor.)

Digitized by Google

Alphabetical list of patentees—Continued.

Baer, Sylvan T., New York, N. Y. Sanitary appliance for telephone-transmitters, &c. No. 1,345,784; July 6; v. 2,6; p. 80.

Baer, William N., White Bear, Minn. Detachable-body lock. No. 1,344,572; June 22; v. 275; p. 762.

Baerbalck, Hans, assignor to The Hamilton Machine Tool Company, Hamilton, Ohio. Feeding mechanism for metal-working machinery. No. 1,358,051; Nov. 9; v. 280; p. 224.

Bagg, Mathew M. (See Farr, Ira E., assignor.)

Bagge, Gustaf F., New York, N. Y. Apparatus for controlling electric circuits. No. 1,362,553; Dec. 14; v. 281; p. 359.

Bagl, Louis, Granite City, Ill. Automobile theft-signal. No. 1,332,097; Feb. 24; v. 271; p. 636.

Bagley, Charles H. F., Stockton-upon-Tees, England. Making basic steel in open-hearth steel-furnaces. No. 1,328,803; Jan. 27; v. 270; p. 487.

Bagley, Harley S. (See Emerson, George A., assignor.)

Bagley, William W., Chicago, Ill., assignor to J. Rousso, Los Angeles, Calif. Towel-cabinet. No. 1,353,704; Sept. 21; v. 278; p. 486.

Bagnell, Christopher C., assignor to M. H. Bagnell, Duluth, Minn. Pulling-drum. No. 1,351,887; Sept. 7; v. 278; p. 35.

Bagnell, Mary H. (See Bagnell, Christopher C., assignor.)

Bagnulo, Salvatore, Revere, Mass. Shower-bath attachment. No. 1,343,892; June 22; v. 275; p. 629.

Bagshaw, Charles M., assignor to The Gimson Shoe Machinery Company, Limited, Leicester, England. Pulling-over and like machine. No. 1,347,929; July 27; v. 276; p. 691.

Bahan, George F., and A. St. Onge, Charlotte, N. C. Bobbin-stripper. No. 1,340,448; Aug. 10; v. 277; p. 309.

Bahan, William H., Jr., Union, S. C. Stop mechanism for looms. No. 1,339,841; May 11; v. 274; p. 299.

Bahde, Carl A. H., Milwaukee, Wis. Fish-clamp. No. 1,353,981; Sept. 28; v. 278; p. 584.

Bahde, Carl A. H., Milwaukee, Wis. Fish-cleaning device. No. 1,360,490; Nov. 30; v. 280; p. 863.

Bahler, Fred, Gilroy, Calif. Automobile-signal. No. 1,336,713; Apr. 13; v. 273; p. 251.

Bahls, Otto, Astoria, N. Y. Structure particularly for inspecting automobiles. No. 1,357,022; Oct. 26; v. 279; p. 645.

Bahr, August T. J., assignor of one-half to E. S. Keller, Danville, Ill. Mechanical draw-delivery filing-cabinet. No. 1,336,183; Apr. 6; v. 273; p. 91.

Bala, Charles, Jersey City, N. J. Locking device for purses and pocketbooks. No. 1,360,613; Nov. 30; v. 280; p. 887.

Baller, Otto P., Memphis, Tenn. Cluster-back for jewelry. No. 1,343,246; June 15; v. 275; p. 437.

Bailey, Charles A., Chicago, Ill. Coupling. No. 1,345,735; July 6; v. 276; p. 80.

Bailey, Charles E., Youngstown, Ohio. Separating metal plates. No. 1,334,584; Mar. 23; v. 272; p. 613.

Bailey, Charles W., and J. H. Stewart, Lynn, Mass.; said Bailey assignor to said Stewart. Cutting-machine. No. 1,346,626; July 13; v. 276; p. 318.

Bailey, Clarence C., Huntington, Ind. Air rivet-bucker. No. 1,363,551; Dec. 28; v. 281; p. 645.

Bailey, Cyrus, Western Springs, Ill. Plane No. 1,348,923; Aug. 10; v. 277; p. 205.

Bailey, Emery A., Clinton, Minn. Convertible plow. No. 1,335,636; Mar. 30; v. 272; p. 871.

Bailey, Emil R., and W. A. McGuire, Omaha, Nebr. Pipe-bending mechanism. No. 1,333,369; Mar. 9; v. 272; p. 278.

Bailey, Fred L., and J. H. La Grant, Wichita, Kans. Core for tire-casings. No. 1,339,875; May 11; v. 274; p. 305.

Bailey, Fred L., and J. H. La Grant, Wichita, Kans. Resilient core for tire-casings. No. 1,339,876; May 11; v. 274; p. 305.

Bailey, Geo. D., Co. (See Bailey, George D., assignor.)

Bailey, George C. (See Weiss, J. M., Bailey, and Potter.)

Bailey, George C., Woodcliff-on-Hudson, N. J., and F. Boettner, New York, N. Y., assignors to The Barrett Company. Treatment of high-boiling coal-tar distillates for the production of resinous products. No. 1,355,103; Oct. 5; v. 279; p. 130.

Bailey, George D., Chicago, Ill., assignor to Geo. D. Bailey Co. Ball-retainer. No. 1,332,282; Mar. 2; v. 272; p. 20.

Bailey, George F. (See Forester, William H., assignor.)

Bailey, George H., and G. W. A. Foster, assignors to The British Aluminium Company Limited, London, England. Production and utilization of magnesium chlorid. No. 1,331,688; Feb. 24; v. 271; p. 559.

Bailey, Jacob S., Honolulu, Hawaii. Bed. No. 1,334,127; Mar. 16; v. 272; p. 482.

Bailey, James, assignor to Corning Glass Works, Corning, N. Y. Machine for finishing blown-glass articles. No. 1,352,396; Sept. 7; v. 278; p. 130.

Bailey, Harold P., Franklin, N. H. Watch-bow. No. 1,348,388; Aug. 3; v. 277; p. 51.

Bailey, Homer A. Elberta, Mich. Glazier's strip or point. No. 1,344,610; June 29; v. 275; p. 835.

Bailey, Layman W., Princeton, W. Va. Rail-joint. No. 1,348,075; July 27; v. 276; p. 721.

Bailey, Richard U., Springfield township, Summit county, Ohio. Toy car. No. 1,333,370; Mar. 9; v. 272; p. 278.

Bailey, Robert R., Chicago, Ill. Cigar-drill. No. 1,345,736; July 6; v. 276; p. 80.

Bailey, Robert R., Chicago, Ill. Razor-blade holder. No. 1,345,737; July 6; v. 276; p. 80.

Bailey, Stephen L. (See Douglas, W. W., and Bailey.)

Bailey, Theodorus S., Berkeley, Calif. Vessel-filling device. No. 1,337,743; Apr. 20; v. 278; p. 521.

Bailey, William F. A., assignor, by mesne assignments, to Non Skid Company of America, Boston, Mass. Anti-skidding device for tires. No. 1,350,484; Aug. 24; v. 277; p. 630.

Bailey, William H., New Lexington, Ohio. Name-plate and annunciator. No. 1,351,362; Aug. 31; v. 277; p. 864.

Baillot, Alphonse. (See Coplan, A. H., and Baillot.)

Baily, Thaddeus F., and F. T. Cope, assignors to The Electric Furnace Company, Alliance, Ohio. Device for heat-treating steel articles. No. 1,335,545; Mar. 30; v. 272; p. 854.

Baily, Thaddeus F., and F. T. Cope, assignors to The Electric Furnace Company, Alliance, Ohio. Electric furnace. No. 1,340,203; May 18; v. 274; p. 424.

Baily, Thaddeus F., and F. T. Cope, Alliance, Ohio. Continuous tire-vulcanizing machine. No. 1,346,158; July 13; v. 276; p. 225.

Baily, Thaddeus F., and F. T. Cope, assignors to The Electric Furnace Company, Alliance, Ohio. Horizontal shell-rolling mill. No. 1,353,982; Sept. 28; v. 278; p. 584.

Baily, Thaddeus F., and F. T. Cope, assignors to The Electric Furnace Company, Alliance, Ohio. Phase-distribution system. No. 1,353,983; Sept. 28; v. 278; p. 584.

Bain, Addison, Marion, Ohio. Fishhook. No. 1,357,678; Nov. 2; v. 280; p. 90.

Bain, Benjamin F. (See Gaines, Vincent S., assignor.) (Reissue.)

Bain, Benjamin F., Pittsburgh, Pa. Mechancial toy bowler andy crane. No. 1,355,636; Oct. 12; v. 279; p. 286.

Baines, Henry C., East Cleveland, assignor, by mesne assignments, to The Cleveland Metal Products Company, Cleveland, Ohio. Treatment of steel, iron, and similar articles. No. 1,344,372; June 22; v. 275; p. 723.

Baines, Joseph E., and J. W. Latshaw, Pittsburgh, Pa., assignors to National Tube Company. Automatic die-head. No. 1,331,227; Feb. 17; v. 271; p. 452.

Bainton, George W., assignor of one-half to Roland & Whytock Company, Providence, R. I. Safety-catch for pins. No. 1,337,114; Apr. 13; v. 273; p. 328.

Bair, Clark E., *et al.* (See Landers, William M., assignor.)

Bair, George I., Detroit, Mich. Window for automobile-curtains. No. 1,353,306; Sept. 21; v. 278; p. 406.

Bair, Joseph H., Haddonfield, N. J. Cooling means for rotary internal-combustion engines. No. 1,331,177; Feb. 17; v. 271; p. 443.

Bair, Joseph H., Haddonfield, N. J. Rotary internal-combustion engine. No. 1,331,478; Feb. 24; v. 271; p. 519.

Bair, Joseph H., Haddonfield, N. J. Washing-machine. No. 1,350,353; Aug. 24; v. 277; p. 603.

Bair, Joseph H., assignor of eighteen-sixtieths to J. O. David and ten-sixtieths to L. H. Taylor, Jr., Philadelphia, Pa., and fifteen-sixtieths to H. S. Knight, Chicago, Ill. Fluid power-transmission apparatus. No. 1,354,592; Oct. 5; v. 279; p. 29.

Baird, Albert H., assignor to Port Huron Engine & Thresher Company, Port Huron, Mich. Tractor driving mechanism. No. 1,330,298; Feb. 10; v. 271; p. 209.

Baird, Alfred M., *et al.* (See Baird, Clifford J., assignor.)

Baird, Clifford J., assignor of one-third to F. G. Hall and one-third to A. M. Baird, Portland, Oreg. Broom. No. 1,337,503; Apr. 20; v. 273; p. 475.

Baird, David H. (See Glass, Elmer R., assignor.)

Baird, Edward P., assignor to The King Lock Company, Chicago, Ill. Key-cutting machine. No. 1,345,117; June 29; v. 275; p. 932.

Baird, Edward P., Evanston, assignor to Chicago Cabinet Lock Company, Chicago, Ill. Lock. No. 1,352,239; Sept. 7; v. 278; p. 101.

Baird, George S., Erith, England. Centrifugal apparatus for extracting honey and the like. No. 1,334,585; Mar. 23; v. 272; p. 613.

Baird, James S., Denver, Colo. Steering-knuckle. No. 1,355,377; Oct. 12; v. 279; p. 236.

Baird Machine Company, The. (See Lewis, Arthur J., assignor.)

Baird, Philander C., Oklahoma, Okla. Bed-supporting means for vehicles. No. 1,340,204; May 18; v. 274; p. 424.

Baisch, Robert, and O. Kreutz, Detroit, Mich. Toy gun. No. 1,353,138; Sept. 21; v. 278; p. 373.

Baitary, Shain E., Baltimore, Md. Pressing-machine. No. 1,340,519; May 18; v. 274; p. 484.

Baits, Stuart G. (See Fekete, S. I., and Baits.)

Baits, Stuart G., and S. I. Fekete, assignors to Hudson Motor Car Company, Detroit, Mich. Tractor. No. 1,342,934; June 8; v. 275; p. 312.

Baits, Stuart G., assignor to Essex Motors, Detroit, Mich. Universal joint. No. 1,356,809; Oct. 26; v. 279; p. 621.

Digitized by Google

Bajusz, Daniel, Vintondale, Va. Toy. No. 1,330,511; Feb. 10; v. 271; p. 249.
Bak, Edward, East Stanwood, Wash. Washboiler attachment. No. 1,349,545; Aug. 10; v. 277; p. 328.
Baker, A. T., & Company. (See Ott, Frederick, assignor.)
Baker, Alfred L., Jerome, Mich. Tire and rim. No. 1,335,268; Mar. 30; v. 272; p. 802.
Baker, Alfred Z., Newark, N. J. Toy aeroplane. No. 1,352,343; Sept. 7; v. 278; p. 121.
Baker, Alva, Plattsburg, N. Y. Sash-lock. No. 1,354,013; Sept. 28; v. 278; p. 590.
Baker, Arthur F., Sedro Woolley, assignor to The Perfecto Gear Differential Co., Seattle, Wash. Driving mechanism for motor-cars. No. 1,329,319; Jan. 27; v. 270; p. 584.
Baker, Charles, Hartford, assignor of one-tenth to A. J. Holzbauer, Milwaukee, Wis. Shears. No. 1,357,437; Nov. 2; v. 280; p. 45.
Baker, Charles E., Roodhouse, Ill. Garden-weeder. No. 1,334,586; Mar. 23; v. 272; p. 614.
Baker, Charles J., Elkhart, Ind. Battery-terminal connector. No. 1,332,482; Mar. 2; v. 272; p. 59.
Baker, Cloice B., assignor of one-half to W. Bawden, St. Louis, Mo. Support for running-boards for vehicles. No. 1,339,379; May 4; v. 274; p. 135.
Baker, Cloice B., assignor of one-half to W. Bawden, St. Louis, Mo. Handrail-column. No. 1,345,338; July 6; v. 276; p. 3.
Baker, Clyde L., Central Lake, Mich. Plow-wheel adjuster. No. 1,336,550; Apr. 13; v. 273; p. 219.
Baker & Company. (See Carter, Frederic E., assignor.)
Baker & Company. (See Van Allen, George L., assignor.)
Baker, D. Ward. (See Alexander, C. T., and Baker.)
Baker-Dunbar Allen Company, The. (See Alston, Walter M., assignor.)
Baker-Dunbar-Allen Company, The. (See Sherman, M. C., and Allen, assignors.)
Baker, Edward J., Chicago, Ill. Advertising device. No. 1,350,054; Aug. 17; v. 277; p. 499.
Baker, Elbridge, assignor of one-fourth to E. P. Tucker, one-fourth to G. W. Tackabury, and one-fourth to G. D. Robertson, Los Angeles, Calif. Harvesting-machine. No. 1,346,159; July 13; v. 276; p. 225.
Baker, Erle K., assignor to Baker Wheel & Rim Company, Chicago, Ill. Dual-tired wheel. No. 1,327,607; Jan. 13; v. 270; p. 197.
Baker, Erle K., assignor to Baker Wheel & Rim Company, Chicago, Ill. Wheel for automobiles. No. 1,334,011; Mar. 16; v. 272; p. 460.
Baker, Erle K., assignor to Baker Wheel & Rim Company, Chicago, Ill. Motor-vehicle wheel. No. 1,336,335; Apr. 6; v. 273; p. 119.
Baker, Erle K., assignor to Baker Wheel & Rim Company, Chicago, Ill. Semiwood wheel for motor-vehicles. No. 1,336,336; Apr. 6; v. 273; p. 119.
Baker, Erle K., assignor to Baker Wheel & Rim Company, Chicago, Ill. Tire-carrying wheel for motor-vehicles. No. 1,336,337; Apr. 6; v. 273; p. 119.
Baker, Erle K., assignor to Baker Wheel & Rim Company, Chicago, Ill. Semiwood wheel for motor-vehicles. No. 1,336,338; Apr. 6; v. 273; p. 119.
Baker, Erle K., assignor to Baker Wheel & Rim Company, Chicago, Ill. Wheel for automobiles of the lighter class. No. 1,339,913; May 11; v. 274; p. 312.
Baker, Erle K., Chicago, Ill. Method of and means for producing tire-carcass material. No. 1,355,525; Oct 12; v. 279; p. 265.
Baker, Eugene L., Taunton, Mass. Molding device. No. 1,339,642; May 11; v. 274; p. 261.
Baker, Frank. (See Nathan, F. L., Rintoul, and Baker.)
Baker, Frank E. (See Chapin, E. I., and Baker.)
Baker, Franklin, Jr., Philadelphia, Pa. Preparing or treating cocoanut and product obtained thereby. No. 1,348,687; Aug. 3; v. 277; p. 108.
Baker, Franklin, Jr., Philadelphia, Pa. Preparing or treating cocoanut and product obtained thereby. No. 1,348,688; Aug. 3; v. 277; p. 108.
Baker, Franklin, Jr., Philadelphia, Pa. Preparing or treating cocoanut and product obtained thereby. No. 1,348,689; Aug. 3; v. 277; p. 108.
Baker, Frederick J., Dayton, Ohio. Front-wheel driving and steering mechanism for horseless vehicles. No. 1,360,710; Nov. 30; v. 280; p. 906.
Baker, George A., Philadelphia, Pa. Fuel-vaporizer for internal-combustion engines. No. 1,359,218; Nov. 16; v. 280; p. 498.
Baker, George M., Brooklyn, N. Y. Pump. No. 1,356,589; Oct. 26; v. 279; p. 560.
Baker, George R. (See White, G., and Baker.)
Baker, George R., assignor to Joseph Baker and Sons Limited, London, England. Coating confections and the like. No. 1,350,538; Aug. 24; v. 277; p. 640.
Baker, George S. (See White, G., and Baker.)
Baker, George W., Maytown, and G. Williams, Wyano, Pa. Balanced piston-valve. No. 1,343,105; June 8; v. 275; p. 346.
Baker, Greeley, Chicago, Ill. Blue-flame gas-burner. No. 1,330,048; Feb. 10; v. 271; p. 168.
Baker, Hartley O. (See Cook, W. P., and Baker.)
Baker, Hartley O., assignor to The Baker Steam Motor Car and Manufacturing Co., Inc., Pueblo, Colo. Engine-releasing device. No. 1,332,585; Mar. 2; v. 272; p. 70.
Baker, Hartley O., assignor to The Baker Steam Motor Car and Manufacturing Co., Inc., Pueblo, Colo. Water-tube boiler. No. 1,336,714; Apr. 13; v. 273; p. 251.
Baker, Hartley O., assignor to The Baker Steam Motor Car and Manufacturing Co., Inc., Pueblo, Colo. Engine-frame. No. 1,336,715; Apr. 13; v. 273; p. 251.
Baker, Hartley O., assignor to The Baker Steam Motor Car Manufacturing Co., Inc., Pueblo, Colo. Axle connection for engines. No. 1,336,716; Apr. 13; v. 273; p. 251.
Baker, Hartley O., assignor to The Baker Steam Motor Car and Manufacturing Co., Inc., Pueblo, Colo. Fuel-pumping system. No. 1,336,717; Apr. 13; v. 273; p. 252.
Baker, Hartley O., assignor to The Baker Steam Motor Car and Manufacturing Co., Inc., Pueblo, Colo. Automatic fluid-controller. No. 1,354,373; Sept. 28; v. 278; p. 664.
Baker, Harvey C., Chicago, Ill. Window-awning. No. 1,335,930; Apr. 6; v. 273; p. 42.
Baker, Henry, administrator. (See Nathan F. L., Rintoul, and Baker.)
Baker, Herbert A., assignor to American Can Company, New York, N. Y. Means for hermeticaly sealing containers. No. 1,343,955; June 22; v. 275; p. 641.
Baker Iron Works. (See De Camp, Roy L., assignor.)
Baker, James H., Saratoga Springs, N. Y. Pulp-wood grinder. No. 1,359,016; Nov. 16; v. 280; p. 461.
Baker, John C. (See Phelps, E. B., Stevenson, and Baker.)
Baker, John S., Los Angeles, Calif. Ballot. No. 1,350,914; Aug. 24; v. 277; p. 712.
Baker, Johnson R., Wyoming, Pa. Article-wrapper. No. 1,355,804; Oct. 19; v. 279; p. 359.
Baker, Joseph, and Sons. (See Baker, George R., assignor.)
Baker, Joseph, & Sons. (See Hewitt, Harry, assignor.)
Baker, Joseph A. (See Barber, L. R., and Baker.)
Baker, Linnaeus E., assignor to Wayne Oil Tank and Pump Company, Fort Wayne, Ind. Dispensing-faucet. No. 1,348,889; Aug. 10; v. 277; p. 189.
Baker, Malcolm H., deceased, Braintree; M. H. Baker, administratrix, assignor to K. W. Crosby, trustee, Boston, Mass. Time-retarded cut-off switch. No. 1,328,477; Jan. 20; v. 270; p. 398.
Baker, Malcolm H., deceased, Braintree; M. H. Baker, administratrix, assignor to K. W. Crosby, trustee, Boston, Mass. Thermodynamically - controlled socket-switch for electric lights. No. 1,328,478; Jan. 20; v. 270; p. 398.
Baker, Malcolm H., deceased, Braintree; M. H. Baker, administratrix, assignor to K. W. Crosby, trustee, Boston, Mass. Thermodynamically - controlled socket-switch for electric lights. No. 1,328,479; Jan. 20; v. 270; p. 398.
Baker, Malcolm H., deceased, Braintree; M. H. Baker, administratrix, assignor to K. W. Crosby, trustee, Boston, Mass. Thermodynamically - controlled pendent switch for electric circuits. No. 1,328,480; Jan. 20; v. 270; p. 398.
Baker, Malcolm H., deceased, Braintree; M. H. Baker, administratrix, assignor to K. W. Crosby, trustee, Boston, Mass. Flush push-button switch for electric circuits. No. 1,328,481; Jan. 20; v. 270; p. 399.
Baker, Malcolm H., deceased, Braintree; M. H. Baker, administratrix, assignor to K. W. Crosby, trustee, Boston, Mass. Thermodynamically - controlled electric switch. No. 1,328,482; Jan. 20; v. 270; p. 399.
Baker, Malcolm H., deceased, Braintree; M. H. Baker, administratrix, assignor to K. W. Crosby, trustee, Boston, Mass. Thermodynamically-controlled switch. No. 1,334,211; Mar. 16; v. 272; p. 496.
Baker, Malcolm H., deceased, Braintree; M. H. Baker, administratrix, assignor to K. W. Crosby, trustee, Boston, Mass. Thermodynamically - controlled socket - switch for electric lights. No. 1,350,587; Aug. 24; v. 277; p. 651.
Baker, Malcolm H., deceased, Braintree; M. H. Baker, administratrix, assignor to K. W. Crosby, trustee, Boston, Mass. Thermodynamic extinguishing device for lamps. No. 1,350,588; Aug. 24; v. 277; p. 651.
Baker, Malcolm H., deceased, Braintree; M. H. Baker, administratrix, assignor to K. W. Crosby, trustee, Boston, Mass. Time-retarded extinguishing device for gas-burners. No. 1,350,589; Aug. 24; v. 277; p. 651.
Baker, Marie H., administratrix. (See Baker, Malcolm H., assignor.)
Baker, Newton D., Secretary of War, trustee. (See Carothers, John N., assignor.)
Baker, Newton D., Secretary of War, trustee. (See Conn, Wallace T., assignor.)
Baker, Newton D., Secretary of War, trustee. (See Hanson, Milton E., assignor.)
Baker, Newton D., trustee. (See McAdam, John V., assignor.)
Baker, Newton D., Secretary of War, trustee. (See Lasher, Willis W., assignor.)
Baker, Newton D. (See Trumpour, Frederick J., assignor.)
Baker, Newton D., Secretary of War, trustee. (See Martel, F. J. Briggs, Macaulay, Wright, and Wenner, assignors.)

Digitized by Google

Alphabetical list of patentees—Continued.

Baker, Orrin H., Chicago, Ill. Forming continuous bands. No. 1,332,592; Mar. 2; v. 272; p. 80.
Baker, R. & L., Company, The. (See Cookingham, De Witt C., assignor.)
Baker, R. & L., Company, The. (See Fend, Roland S., assignor.)
Baker, R & L Company, The. (See Gruenfeldt, Emil, assignor.)
Baker, Ralph, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrode-adapter. No. 1,336,603; Apr. 13; v. 273; p. 230.
Baker, Reuben C., Coalinga, Calif. Shoe-guide for well-casings. No. 1,359,017; Nov. 16; v. 280; p. 461.
Baker, Richard T., Philadelphia, Pa. Tire-protector. No. 1,336,271; Apr. 6; v. 273; p. 107.
Baker, Robert E., Cleveland, Ohio. Storage-bin. No. 1,338,482; Apr. 27; v. 273; p. 780.
Baker, Robert E., Cleveland, Ohio. Storage-bin. No. 1,338,483; Apr. 27; v. 273; p. 780.
Baker, Robert E., Cleveland, Ohio. Constructing storage-receptacles. No. 1,338,484; Apr. 27; v. 273; p. 781.
Baker, Robert E., Bronxville, E. H. Ford, Brooklyn, and L. S. Harber, New York, assignors to Joseph Baker's Limited, New York, N. Y. Dough-feeding device. No. 1,343,184; June 8; v. 275; p. 361.
Baker, Robert E., Hopewell, Va. Collapsible bed. No. 1,358,407; Nov. 9; v. 280; p. 296.
Baker, Rollyn H., Dayton, Ohio. Irrigated brush. No. 1,336,604; Apr. 13; v. 273; p. 230.
Baker, Roy R., Chicago, Ill. Switch-adjustment housing. No. 1,344,848; June 29; v. 275; p. 881.
Baker Steam Motor Car and Manufacturing Co., The. (See Baker, Hartley O., assignor.)
Baker Steam Motor Car and Manufacturing Company, The. (See Cook, W. P., and Baker, assignors.)
Baker, Thomas H., Baltimore, Md. Sliding-door fastening. No. 1,331,858; Feb. 24; v. 271; p. 592.
Baker, Thomas W. (See Magee, Frederick W., assignor.)
Baker, Thomas Y. (See Hughes, H. A., and Baker.)
Baker-Vawter Company. (See Manny, Fred L., assignor.)
Baker, Weller H. (See Reid, Edward M., assignor.)
Baker Wheel & Rim Company. (See Anglada, Joseph A., assignor.)
Baker Wheel & Rim Company. (See Baker, Erle K., assignor.)
Baker, William C., Amesbury, Mass. Headlight-dimmer. No. 1,359,656; Nov. 23; v. 280; p. 630.
Bakerman, Abraham M., New York, N. Y. Necktie. No. 1,349,486; Aug. 10; v. 277; p. 316.
Baker's, Joseph, Limited. (See Baker, R. E., Ford, and Harber, assignors.)
Bakke, Bjarne, assignor to Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Christiania, Norway. Treatment of liquids to effect crystallization therefrom while the liquid is kept in motion. No. 1,329,158; Jan. 27; v. 270; p. 555.
Bakke, Carl O., Fertile, Minn. Belt. No. 1,350,915; Aug. 24; v. 277; p. 712.
Bakke, Julius O., assignor to Washburn-Crosby Company, Minneapolis, Minn. Thread-cutter for bag-sewing machines. No. 1,342,150; June 1; v. 275; p. 105.
Bakken, Andrew H., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Latching device. No. 1,349,356; Aug. 10; v. 277; p. 291.
Bakken, Andrew H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fuse. No. 1,349,357; Aug. 10; v. 277; p. 291.
Bakken, Herman E., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Casting freely-oxidizable metals. No. 1,363,384; Dec. 28; v. 281; p. 612.
Bakken, Ole K., Northwood, N. D. Automobile transmission-gearing. No. 1,335,811; Apr. 6; v. 273; p. 20.
Bakley, Edward, Chatham, N. J. Pipe-lock. No. 1,347,833; July 27; v. 276; p. 672.
Bakutis, George, Chicago, Ill. Attachment for safety-razors. No. 1,355,526; Oct. 12; v. 279; p. 265.
Balaguer, Andres Marianao, Habana, Cuba. Resilient tire for vehicle-wheels. No. 1,346,692; July 13; v. 276; p. 331.
Balboni, Anacleto, Neponset, Mass. Tool-box. No. 1,340,870; May 25; v. 274; p. 621.
Balcom, Walter F., Dayton, Ohio. Preserving-jar. No. 1,342,039; June 1; v. 275; p. 84.
Baldauf, Charles L., West Hoboken, N. J., assignor to Thomas Nelson & Sons, New York, N. Y. Loose-leaf binder. No. 1,344,934; June 29; v. 275; p. 897.
Baldon, J. L., *et al.* (See Shreibman, Abram, assignor.)
Baldt Anchor Company. (See Powell, Norris D., assignor.)
Balduf, Bruno E. (See Kochendorfer, F. S., and Balduf.)
Baldwin, Abram T., deceased; C. P. Baldwin, executrix, Detroit, Mich. Draft-gage. No. 1,352,719; Sept. 14; v. 278; p. 281.
Baldwin, Albert C. (See Thomson, William E., assignor.)
Baldwin, Alfred S., Syracuse, N. Y. Vehicle-wheel. No. 1,352,168; Sept. 7; v. 278; p. 87.
Baldwin, Allen T., Elizabeth, N. J., assignor to Manhattan Electrical Supply Company, Inc., New York, N. Y. Binding-post for electric wires. No. 1,357,926; Nov. 2; v. 280; p. 139.
Baldwin, Arthur S., Baltimore, Md. Gun. No. 1,327,897; Jan 13; v. 270; p. 251.
Baldwin, Catherine P., executrix. (See Baldwin, Abram T.)
Baldwin, Charles F. (See Williams, S. B., Jr., and Baldwin.)
Baldwin, Charles E., Houston, Tex. Penholder. No. 1,344,329; June 22; v. 275; p. 714.
Baldwin, Charles E., assignor of one-fourth to I. Breakstone, Oconto, Wis. Flour-sifter. No. 1,358,920; Nov. 16; v. 280; p. 448.
Baldwin, Edwin A., assignor to Standard Oil Company of New York, New York, N. Y. Selecting grades of lubricants for internal-combustion engines. No. 1,359,147; Nov. 16; v. 280; p. 484.
Baldwin, Florence D., administratrix. (See Williams, S. B., Jr., and Baldwin.)
Baldwin, Francis J., Canton, Ohio. Arbor. No. 1,339,877; May 11; v. 274; p. 306.
Baldwin, Frank G., assignor to The Sechler & Company, Cincinnati, Ohio. Rolling military kitchen. No. 1,328,071; Jan. 13; v. 270; p. 284.
Baldwin, Frederick M., Los Angeles, Calif. Oilcloth-cutting machine. No. 1,352,240; Sept. 7; v. 278; p. 101.
Baldwin, Frederick M., Bishop, Calif. Oilcloth display-rack and cutting-table. No. 1,352,397; Sept. 7; v. 278; p. 130.
Baldwin, George, assignor of one-third to E. Drescher, Dell, Mont. Boring-machine. No. 1,331,949; Feb. 24; v. 271; p. 608.
Baldwin, Harry, Seymour, Conn. Paper-clip. No. 1,344,473; June 22; v. 275; p. 743.
Baldwin Harry, Seymour, Conn. Machine for making paper-clips. No. 1,355,587; Oct. 12; v. 279; p. 277.
Baldwin, J. P., et al. (See Stephens, James W. T., assignor.)
Baldwin Locomotive Works, The. (See Deans, F. B., and Kirk., assignors.)
Baldwin Locomotive Works, The. (See Rushton, Kenneth, assignor.)
Baldwin Locomotive Works, The. (See Wallace, Allen, assignor.)
Baldwin Locomotive Works, The. (See Wille, Henry V., assignor.)
Baldwin, Murray, Brookline, Mass. Elbow-protector. No. 1,351,731; Sept. 7; v. 278; p. 3.
Baldwin, Nathaniel, East Mill Creek, Utah. Power-press feed. No. 1,358,609; Nov. 9; v. 280; p. 335.
Baldwin, Philip P., Greenfield, Mass. Collapsible tool. No. 1,331,138; Feb. 17; v. 271; p. 436.
Baldwin, Richard D., Chicago, Ill. Air-deflector for fire-box doors. No. 1,330,972; Feb. 17; v. 271; p. 406.
Balenti, John and M. R., Calumet, Okla. Pancake-machine. No. 1,363,706; Dec. 28; v. 281; p. 674.
Balenti, Michael R. (See Balenti, John and M. R.)
Bales, Wilbur F., Slater, Mo. Resilient tire. No. 1,358,671; Nov. 9; v. 280; p. 348.
Balestrino, Louis, Brooklyn, and G. Merigone, New York, N. Y. Multiple-lever lock for automobiles. No. 1,348,840; Aug. 10; v. 277; p. 189.
Balestrino, Louis, Brooklyn, and G. Merigone, New York, N. Y. Automobile-lock. No. 1,348,841; Aug. 10; v. 277; p. 189.
Balfour, Eva L. D. B. and J. W. B., London, England. Spike. No. 1,352,573; Sept. 14; v. 278; p. 201.
Balfour, Ian H. (See Bray, S. W., and Balfour.)
Balfour, John W. B. (See Balfour, Eva L. D. B. and J. W. B.)
Balinky, Abraham. (See Cohen, William, assignor.)
Balke, Clarence W., Highland Park, assignor to Pfanstiehl Company, Inc., North Chicago, Ill. Amalgamating steel bodies. No. 1,349,999; Aug. 17; v. 277; p. 489.
Balkwill, Stephen, Cleveland, Ohio. Railway-crossing. No. 1,340,205; May 18; v. 274; p. 425.
Balkwill, Wesley J. (See Schweiger and Balkwill.)
Balkwill, Wesley J., assignor to Multipost Company, Rochester, N. Y. Liquid-dispensing apparatus for stamp-affixers. No. 1,356,253; Oct. 19; v. 279; p. 448.
Ball, Albert, Claremont, N. H., assignor by mesne assignments to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining-machine. No. 1,352,169; Sept. 7; v. 278; p. 88.
Ball, Albert P., Royal Oak, and F. Zenker, Highland Park, assignors to Square D. Company, Detroit, Mich. Meter-test device. No. 1,361,955; Dec. 14; v. 281; p. 242.
Ball, Arlington L., Dunkirk, N. Y., assignor, by mesne assignments, to Germer Stove Company, Erie, Pa. Liquid-feed device. No. 1,339,734; May 11; v. 274; p. 279.
Ball, Arthur T., Ranger, Tex. Shaft-bearing. No. 1,350,953; Aug. 24; v. 277; p. 720.
Ball & Ball Carburetor Company. (See Ball, Frank H., assignor.)
Ball & Ball Carburetor Company. (See Ball, Frederick O., assignor.) (Reissue.)
Ball Brothers Glass Manufacturing Company. (See Bingham, Alvah L., assignor.)
Ball Brothers Glass Manufacturing Company. (See Wadsworth, Frank L. O., assignor.)

Digitized by Google

Ball, Charles F., Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Track-link for chain tracks. No. 1,344,373; June 22; v. 275; p. 723.
Ball, Clarence R., Washington, D. C. Bed. No. 1,337,580; Apr. 20; v. 273; p. 490.
Ball, Clarence R., Washington, D. C. Self-serving apparatus for eating establishments. No. 1,334,587; Mar. 23; v. 272; p. 614.
Ball, Frank H., assignor to Ball & Ball Carburetor Company, Detroit, Mich. Carbureter. No. 1,358,498; Nov. 9; v. 280; p. 313.
Ball, Frederick O., assignor to Ball & Ball Carburetor Company, Detroit, Mich. Carbureter. (Reissue.) No. 14,790; Jan. 13; v. 270; p. 320.
Ball, Henry D., assignor of one-half to E. L. Bradbury, Clarksville, Tenn. Automobile-hoist. No. 1,334,431; Mar. 23; v. 272; p. 585.
Ball, John E., Council Bluffs, Iowa. Baby-retainer. No. 1,364,019; Dec. 28; v. 281; p. 735.
Ball, John R. (See Rogers, Homer S., assignor.)
Ball, John R., Durango, Colo. Inclosed-screen ball-mill. No. 1,337,033; Apr. 13; v. 273; p. 313.
Ball, John R., Durango, Colo. Two-compartment ball-mill. No. 1,335,269; Mar. 30; v. 272; p. 802.
Ball, Raymond H., Adams, Mass. Shaving kit. No. 1,357,679; Nov. 2; v. 280; p. 90.
Ball Rolled Tube Corporation. (See Brinkman, Louis H., assignor.)
Ball, Rowland, La Grange, Ill. Spring and shock-absorber. No. 1,336,184; Apr. 6; v. 273; p. 91.
Ball, Waldon S., San Francisco, Calif., assignor, by mesne assignments, to Stereoscopic Motion Picture Company. Method of and apparatus for taking moving-pictures. No. 1,351,502; Aug. 31; v. 277; p. 891.
Ballantine, William, assignor of one-fourth to J. C. McIntyre and one-fourth to F. Hunter, Mission City, British Columbia, Canada. Stump-puller. No. 1,359,219; Nov. 16; v. 280; p. 498.
Ballantyne, George E., San Jose, Calif. Traction device for motor-vehicles. No. 1,331,839; Feb. 24; v. 271; p. 588.
Ballard, Albert M., Drumright, Okla., assignor to Sun Company, Philadelphia, Pa. Apparatus for separating oil and gas direct from wells. No. 1,327,691; Jan. 13; v. 270; p. 213.
Ballard, Asa H., Fort Morgan, Colo. Beet-topper. No. 1,344,849; June 29; v. 275; p. 881.
Ballard, Charles S., assignee. (See Washburn, Howard L., assignor.)
Ballard, James B., Providence R. I., assigner, to Revere Rubber Company. Bathing-hat. No. 1,330,299; Feb. 10; v. 271; p. 209.
Ballard, James W., Fairfax, Va. Repeating rifle. No. 1,328,356; Jan. 20; v. 270; p. 375.
Ballard, William N., assignor of one-half to J. S. Cummins, Kansas City, Kans. Dry-pipe valve mechanism. No. 1,335,858; Mar. 30; v. 272; p. 819.
Ballerino, Alfonso P., assignor of one-half to M. C. Nason, Hollywood, Calif. Foot-operated throttle-control apparatus. No. 1,335,314; Mar. 30; v. 272; p. 811.
Ballerstedt, William D., Los Angeles, Calif. Sprinkler system for irrigating lawns, gardens, fields, and the like. No. 1,337,744; Apr. 20; v. 273; p. 521.
Ballerstedt, William D., Los Angeles, Calif. Machine adapted for use as a motor, meter, pump, and propeller. No. 1,360,353; Nov. 30; v. 280; p. 835.
Ballin, Hugo, New York, N. Y. Bird-house. No. 1,329,104; Jan. 27; v. 270; p. 545.
Ballinger & Perrott. (See Ballinger, W. F., and Shivers, assignors.)
Ballinger, Walter F., and C. H. Shivers, Woodbury, N. J., assignors to Ballinger & Perrott, Philadelphia, Pa. Roof structure. No. 1,347,669; July 27; v. 276; p. 639.
Ballman, Edwin C., assignor to S. A. Whitten, St. Louis, Mo. Spark-coil-testing apparatus. No. 1,339,804; May 11; v. 274; p. 292.
Ballman, Edwin C., assignor of one-half to S. A. Whitten, St. Louis, Mo. Lathe-stopping mechanism. No. 1,340,811; May 18; v. 274; p. 539.
Ballman, Edwin C., assignor to Valley Electric Company, Wilmington, Del. Cartridge-type fuse. No. 1,350,055; Aug. 17; v. 277; p. 500.
Ballman, Edwin C., St. Louis, Mo., assignor to Valley Electric Company, Wilmington, Del. Rectifier for alternating currents. No. 1,357,942; Nov. 9; v. 280; p. 202.
Ballou, B. A., & Co. (See Ballou, Frederick A., Jr., assignor.)
Ballou, B. A., & Co. (See Lahey, Edgar C., assignor.)
Ballou, B. A., & Company. (See Stafford, Rogers T., assignor.)
Ballou, Frank H., Newark, Ohio. Product assorting and distributing machine. No. 1,346,438; July 13; v. 276; p. 281.
Ballou, Frederick A., Jr., assignor to B. A. Ballou & Co., Inc., Providence, R. I. Spring-ring. No. 1,340,206; May 18; v. 274; p. 425.
Ballou Manufacturing Company. (See McCarmack, George E., assignor.)
Ballou, Marcus H., Pittsburgh, Pa. Tape attachment. (Reissue.) No. 14,947; Sept. 7; v. 278; p. 135.
Ballou, Russell A. (See Williams, David C., assignor.)
Baloc, John, Hazleton, Pa. Door-operating mechanism. No. 1,348,076; July 27; v. 276; p. 721.
Balogh, George W., Buffalo, N. Y. Heater. No. 1,327,896; Jan. 13; v. 270; p. 251.
Balsa Refrigerator Corporation. (See Kramer, Gustav A., assignor.)
Balsam, Maurice M., New York, N. Y. Starting mechanism for internal-combustion engines. No. 1,338,668; May 4; v. 274; p. 4.
Balsly, Ralph E., Cincinnati, Ohio. Stump-pulling machine. No. 1,335,931; Apr. 6; v. 273; p. 43.
Balster, Frederick W., Wilmington, Del. Steam-boiler. No. 1,327,188; Jan. 6; v. 270; p. 58.
Balston, Clyde Co., New York, N. Y. Photographic camera. No. 1,362,833; Dec. 21; v. 281; p. 466.
Baltensperger, Elizabeth A. (See Thomas, August, assignor.)
Baltes, Walter H., Milwaukee, Wis. Signal-light for automobiles. No. 1,350,539; Aug. 24; v. 277; p. 641.
Balthasar, Harry G., assignor to Interstate Tool and Manufacturing Company, St. Louis, Mo. Dial-indicator for combination-locks. No. 1,327,457; Jan. 6; v. 270; p. 107.
Balthasar, Harry G., assignor to Combination Auto Lock Company, St. Louis, Mo. Whistle. No. 1,331,975; Feb. 24; v. 271; p. 613.
Baltimore Process Company. (See Straus, Alexander, assignor.)
Baltimore Process Company. (See Straus, Alexander L., assignor.)
Baltz, George. (See Diard, Felix V., assignor.)
Baltzley, Oren F., Hagerstown, assignor to The Liberty Tool Company, Baltimore, Md. Apparatus for drilling, reaming, and countersinking. No. 1,352,646; Sept. 14; v. 278; p. 216.
Baltzley, Oren F., Hagerstown, Md., assignor to The Liberty Tool Company, Baltimore, Md. Apparatus for drilling and reaming and countersinking. No. 1,362,913; Dec. 21; v. 281; p. 481.
Baltzley, Oren F., Hagerstown, Md., assignor to The Liberty Tool Company, Baltimore, Md. Apparatus for drilling and reaming and countersinking. No. 1,362,914; Dec. 21; v. 281; p. 481.
Baltzley, Oren F., Hagerstown, Md., assignor to The Liberty Tool Corporation, Baltimore, Md. Apparatus for drilling and reaming and countersinking. No. 1,362,915; Dec. 21; v. 281; p. 481.
Baltzley, Owen F. (See Grimes E. O., Jr., and Baltzley.)
Baluta, Leonard S., Roaring Creek, Pa. Recorder and register for dispensing apparatus. No. 1,358,921; Nov. 16; v. 280; p. 443.
Balzer, Fritz. (See Bartholomew, W., and Balzer.)
Balzer, Fritz, assignor to Troy Laundry Machinery Company, Ltd., Chicago, Ill. Shirt-bosom-ironing machine. No. 1,328,807; Jan. 27; v. 270; p. 488.
Balzano, James, New York, N. Y. Storage battery. No. 1,362,554; Dec. 14; v. 281; p. 359.
Bamberg, Joseph H., Tonawanda, N. Y., assignor to The Aluminum Castings Company, Cleveland, Ohio. Piston for internal-combustion motors. No. 1,329,821; Feb. 3; v. 271; p. 89.
Bamboo Paper Company. (See Jardine, James L., assignor.)
Bambrick, Charles L., Brooks, Alberta, Canada. Film-holder. No. 1,353,705; Sept. 21; v. 278; p. 486.
Bammer, Pius, and T. Gensmer, Portland, Oreg., assignors to Nu Automatic Button Attaching Machine Co. Button-attaching machine. No. 1,335,315; Mar. 30; v. 272; p. 811.
Bammer, Pius, assignor to Nu Automatic Button Attaching Machine Company, Portland, Oreg. Feeding mechanism. No. 1,336,771; Apr. 13; v. 273; p. 262.
Banaji, Framerz M. M., Bombay, India. Keyboard for typewriters. No. 1,336,122; Apr. 6; v. 273; p. 79.
Bancarel, Charles, Levallois-Perret, France. Portable cinematographic apparatus. No. 1,349,650; Aug. 17; v. 277; p. 421.
Bancel, Paul A., Nutley, assignor to The Ingersoll-Rand Company, Jersey City, N. J. Regenerative power installation. No. 1,353,706; Sept. 21; v. 278; p. 486.
Bancel, Paul A., Nutley, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J. Surface condenser. No. 1,354,276; Sept. 28; v. 278; p. 645.
Bancroft, Albert F., Haverhill, Mass. Shoe-flexing machine. No. 1,331,232; Feb. 17; v. 271; p. 453.
Bancroft, Clinton. (See Horsman, William H., assignor.)
Bancroft, Ernest, Sonoma, Calif. Wireless synchronizer. No. 1,363,032; Dec. 21; v. 281; p. 504.
Bancroft, Frank H., assignor to P. Derby & Company, Gardner, Mass. Automatic turning-machine. No. 1,338,275; Apr. 27; v. 273; p. 691.
Bancroft, John S., assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Casting individual printing-type. No. 1,355,880; Oct. 19; v. 279; p. 374.
Bancroft, John S., and M. C. Indahl, assignors to Lanston Monotype Machine Company, Philadelphia, Pa. Typographic composing-machine. No. 1,328,257; Jan. 20; v. 270; p. 356.

Digitized by Google

Alphabetical list of patentees—Continued.

Bancroft, John S., and A. L. Knight, assignors to Lanston Monotype Machine Company, Philadelphia, Pa. Multiple-blade type-mold. No. 1,328,256; Jan. 20; v. 270; p. 355.
Bancroft, John S., and A. L. Knight, assignors to Lanston Monotype Machine Company, Philadelphia, Pa. Mold for printers' leads and the like. No. 1,355,879; Oct. 19; v. 279; p. 374.
Bancroft, Samuel M. (See Evans, W. C., and Bancroft.)
Bancroft, Wilfred, Ardmore, Pa., assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Device for measuring typewritten matter. No. 1,355,881; Oct. 19; v. 279; p. 374.
Bancroft, Wilfred, Slatersville, R. I. Method and means for treating light-weight fabrics. No. 1,342,935; June 8; v. 275; p. 313.
Bancroft, William A., Watertown, Mass. Automatic safety cut-off for combustible-fluid-distributing systems. No. 1,332,283; Mar. 2; v. 272; p. 20.
Bander, Jacob B. (See Powers, Timothy B., assignor.)
Bandini, Julius C., Corona, N. Y. Sifting-shovel. No. 1,341,874; June 1; v. 275; p. 51.
Banes, Walter D., Philadelphia, Pa., assignor to General Pressed Metal Company. Hanger. No. 1,344,110; June 22; v. 275; p. 671.
Banfield, Arthur C., assignor to Adam Hilger, Limited, London, England. Illuminating small objects with intense light. No. 1,355,805; Oct. 19; v. 279; p. 359.
Bangerter, Adolf. (See Taylor, Charles F., assignor.)
Bangerter, Friedrich, New York, N. Y. Cartridge-conveyer belt. No. 1,331,043; Feb. 17; v. 271; p. 419.
Banigan, Thomas F., Kenvil, N. J., assignor to Hercules Powder Company, Wilmington, Del. Producing nitric acid. No. 1,332,195; Mar. 2; v. 272; p. 4.
Bank, Frederick V., Cincinnati, Ohio. Window-cleaning attachment. No. 1,336,672; Apr. 13; v. 273; p. 243.
Bank, Isaac, Hammonton, N. J. Sleeve-former. No. 1,345,739; July 6; v. 276; p. 80.
Bank, William, Chicago, Ill. Saw-filing machine. No. 1,339,153; May 4; v. 274; p. 93.
Banker, Oscar H. (See Reinhardt, W. C., and Banker.)
Banks, Helena H., Ames, Iowa. Operating mechanism for signals. No. 1,332,098; Feb. 24; v. 271; p. 636.
Banner Machine Company, The. (See Major, W. R., and Grove, assignors.)
Bannister, Bryant, Pittsburgh, Pa. Explosion-alleviator for internal-combustion engines. No. 1,360,074; Nov. 23; v. 280; p. 713.
Bannister, Bryant, Pittsburgh, Pa. Explosion-alleviator for internal-combustion engines. No. 1,360,075; Nov. 23; v. 280; p. 713.
Bannon, John, and F. W. Thorold, Toronto, Ontario, Canada. Apparatus for separating liquids. No. 1,355,934; Oct. 19; v. 279; p. 384.
Banse, Robert J., Philadelphia, Pa. Paper-hanger machine. No. 1,343,106; June 8; v. 275; p. 346.
Banta, Len A., Clearfield, Pa. Carburation device. No. 1,355,527; Oct. 12; v. 279; p. 266.
Banta, Leonard A., assignor of one-half to C. E. Ellis, Fellows, Calif. Attachment for wrenches. No. 1,338,549; Apr. 27; v. 273; p. 742.
Banta, Pauline W., Tampa, Fla. Heating-stove. No. 1,336,412; Apr. 13; v. 273; p. 194.
Bantjes, John T. F., Klerksdorp, Transvaal, South Africa. Tool head and handle construction. No. 1,336,185; Apr. 6; v. 273; p. 91.
Bar and Stroud. (See Barr, A., Stroud, and d'Albe, assignors.)
Baraclough William H., Birmingham, England. Adjustable spanner or wrench. No. 1,333,956; Mar. 16; v. 272; p. 449.
Baradat, Claudio. (See Lleó, A., and Baradat.)
Baran, Wilfred, *et al.* (See Kollock, Samuel W. M., assignor.)
Baráth, Bertalan, Akron, Ohio. Hydraulic washing-machine. No. 1,348,107; June 8; v. 275; p. 346.
Barbarou, Marius J. B., Neuilly-sur-Seine, France. Articulation between a piston and its connecting-rod. No. 1,331,555; Feb. 24; v. 271; p. 533.
Barbarou, Marius J. B., Neuilly-sur-Seine, France. Cylinder for internal-combustion engines. No. 1,340,647; May 18; v. 274; p. 509.
Barbee, James R., Central City, and O. J. Cross, Nederland, Colo. Jig. No. 1,328,778; Jan. 20; v. 270; p. 453.
Barber, Abraham H., Madison, Wis. Safety pocket attachment. No. 1,362,916; Dec. 21; v. 281; p. 481.
Barber, Ada S. (See Barber, William, assignor.)
Barber, Alfred H. (See Gasser, J., and Barber.)
Barber, Allan J., Woonsocket, R. I. Amusement device. No. 1,354,793; Oct. 5; v. 279; p. 70.
Barber Asphalt Paving Company, The. (See Browne, Frank A., assignor.)
Barber Asphalt Paving Company, The. (See Cavey, Arthur T., assignor.)
Barber-Asphalt Paving Company, The. (See Miller, John S., Jr., assignor.)
Barber Asphalt Paving Company, The. (See Oliensis, G. L., and Miller, assignors.)
Barber, Claire S. (See Richardson, B. J., and Barber.)
Barber-Colman Company. (See Colman, H. D., Peterson, and Parker, assignors.)
Barber-Colman Company. (See Colman, Howard D., assignor.)
Barber-Colman Company. (See Field, M. F., and Lanning, assignors.)
Barber-Colman Company. (See Hathaway, E. F., and Lea, assignors.)
Barber-Colman Company. (See Lea, Charles, assignor.)
Barber-Colman Company. (See Peterson, Burt A., assignor.)
Barber-Colman Company. (See Sinderson, John, assignor.)
Barber, Earl E. (See Grover, A. D., and Barber.) (Reissue.)
Barber, Franklin L., and E. W. Webb, assignors to Standard Car Truck Company, Chicago, Ill. Car-truck. No. 1,351,459; Aug. 31; v. 277; p. 882.
Barber, George A., Chicago, Ill., assignor to J. V. McManis, Kirksville, Mo. Table-supporting mechanism. No. 1,346,586; July 13; v. 276; p. 310.
Barber, Harry E., Green Cove Springs, Fla., assignor, by mesne assignments, to The American Clearing Company, Hamilton, Ohio. Anchor for stump-pulling machines and the like. No. 1,346,933; July 20; v. 276; p. 488.
Barber, Harry E., Green Cove Springs, Fla., assignor, by mesne assignments, to The American Clearing Company, Hamilton, Ohio. Stump-pulling machine. No. 1,349,803; Aug. 17; v. 277; p. 451.
Barber, Herman, Elwood, Ind. Spraying apparatus. No. 1,339,382; May 11; v. 274; p. 211.
Barber, Hiram E., Sheridan, Wyo. Nailing-strip. No. 1,358,922; Nov. 16; v. 280; p. 443.
Barber, Hiram E., Sheridan, Wyo. Sharpener for knives and the like. No. 1,360,998; Dec. 7; v. 281; p. 3.
Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Inking mechanism for printing-presses. No. 1,341,627; June 1; v. 275; p. 3.
Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Sheet-handling machine. No. 1,343,608; June 15; v. 275; p. 507.
Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Sheet-delivery mechanism for printing-presses. No. 1,353,509; Sept. 21; v. 278; p. 446.
Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Adjustable side grippers for rotary sheet-collecting cylinders. No. 1,356,184; Oct. 19; v. 279; p. 435.
Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Sheet-delivery mechanism for printing-machines. No. 1,356,900; Oct. 26; v. 279; p. 621.
Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Flat-sheet-delivery mechanism for printing-presses. No. 1,357,680; Nov. 2; v. 280; p. 91.
Barber, Joel D., Tuckahoe, N. Y. Clothes-rack. No. 1,342,200; June 1; v. 725; p. 116.
Barber, John C., Chicago, Ill. Car-truck. No. 1,347,887; July 27; v. 276; p. 684.
Barber, John C., assignor to Standard Car Truck Company, Chicago, Ill. Draw-bar buffer. No. 1,341,455; May 25; v. 274; p. 735.
Barber, John W., Newton, Mass. Coupling or clutch. No. 1,342,036; June 8; v. 275; p. 313.
Barber, L. R., and J. A. Baker, Sharon, Pa. Soldering-iron. No. 1,357,606; Nov. 2; v. 280; p. 76.
Barber, Martin A., assignor to The American Automatic Connector Company, Cleveland, Ohio. Pipe-union. No. 1,347,834; July 27; v. 276; p. 673.
Barber, Martin A., assignor to The American Automatic Connector Company, Cleveland, Ohio. Automatic train-pipe coupling. No. 1,347,835; July 27; v. 276; p. 673.
Barber, Martin A., assignor to The American Automatic Connector Company, Cleveland, Ohio. Train-pipe connector. No. 1,347,836; July 27; v. 276; p. 673.
Barber, Martin A., assignor to The American Automatic Connector Company, Cleveland, Ohio. Automatic train-pipe coupling. No. 1,347,986; July 27; v. 276; p. 703.
Barber, William, New York, N. Y. Explosive-engine. No. 1,346,805; July 20; v. 276; p. 413.
Barber, William, Brooklyn, N. Y. Metal wheel. No. 1,348,199; Aug. 3; v. 277; p. 13.
Barber, William, New York, assignor to A. S. Barber, Brooklyn, N. Y. Tire-tread. No. 1,346,627; July 13; v. 276; p. 318.
Barber, William J., assignor, by mesne assignments, to The Kline Company, Cleveland, Ohio. Gas-burner. No. 1,342,617; June 8; v. 275; p. 248.
Barbers Electric Specialty Company, The. (See Coffman, Samuel M., assignor.)
Barbery, Anthony. (See Patremio, Martin, assignor.)
Barbet, E., & Fils & Cie. (See Barbet, Emile A., assignor.)
Barbet, Emile A., Paris, France. Cooling-plate for continuous rectification apparatus. No. 1,328,259; Jan. 20; v. 270; p. 356.
Barbet, Emile A., Paris, France. Apparatus for regulating and maintaining a desired level of liquid in evaporating installations. No. 1,349,114; Aug. 10; v. 277; p. 242.

Digitized by Google

Barbet, Emile A., Paris, France. Removing tar from products of the distillation of wood or coal. No. 1,351,363; Aug. 31; v. 277; p. 864.
Barbet, Emile A., assignor to E. Barbet & Fils & Cie., Paris, France. Continuous production of ether. No. 1,328,258; Jan. 20; v. 270; p. 856.
Barbey, Francis A., *et al.* (See McManama, John W., assignor.)
Barbour Flax Spinning Company. (See Tracy, Homer D., assignor.)
Barbour, George H., Pittsburgh, Pa. Rail-tie. No. 1,348,344; Aug. 3; v. 277; p. 42.
Barbour, George H., Pittsburgh, Pa. Rail-joint. No. 1,348,345; Aug. 3; v. 277; p. 43.
Barbour, John P. (See Pelton, C. W., and Barbour.)
Barbour, Perley E., Brockton, Mass. Continuous welting. No. 1,334,829; Mar. 23; v. 272; p. 660.
Barbour, William T., and W. L. Mersfelder, assignors to Detroit Stove Works, Detroit, Mich. Stove-door. No. 1,350,768; Aug. 24; v. 277; p. 685.
Barbre, Clarence. (See Cannon, H., Barbre, and Leslie.)
Barbre, Clarence. (See Leslie, E. H., and Barbre.)
Barchard, Emma C., Chicago, Ill. Oiler for air-compressors. No. 1,339,540. May 11; v. 274; p. 241.
Barchi, Giovanni, New York, N. Y. Drawer attachment. No. 1,328,112; Jan. 13; v. 270; p. 292.
Barclay, David, Conneautville, and A. M. Dudley, Oakmont, Pa., assignors to Westinghouse Electric and Manufacturing Company. Shaft-bracing. No. 1,349,358; Aug. 10; v. 277; p. 291.
Barclay, Frank R., Youngstown, Ohio. Seam and edge binder for floor-coverings. No. 1,354,155; Sept. 28; v. 278; p. 620.
Barclay, Hjalmar V., New York, N. Y. Hot appliance. No. 1,351,986; Sept. 7; v. 278; p. 54.
Barclay, Ivor G. (See Plym, F. J., and Barclay.)
Barclay, Jesse H., Chillicothe, Mo. Garment-hanger. No. 1,329,877; Feb. 3; v. 271; p. 100.
Bard, Everett, Water Valley, Ky. Dental appliance. No. 1,332,878; Mar. 9; v. 272; p. 186.
Bard, Francis N., Highland Park, Ill. Composite non-metallic gasket. No. 1,346,523; July 13; v. 276; p. 298.
Bard, Francis N., Highland Park, Ill. Composite non-metallic gasket. No. 1,346,524; July 13; v. 276; p. 298.
Bard, Francis N., Highland Park, Ill. Gasket for flexible joints. No. 1,347,470; July 20; v. 276; p. 543.
Bard, George P., Youngstown, Ohio. Pressed corrugated sheet-metal annealing-box. No. 1,328,030; Jan. 13; v. 270; p. 276.
Bard, Jacob W., and O. White, assignors to Sangamo Electric Company, Springfield, Ill. Graphic recording instrument. No. 1,350,485; Aug. 24; v. 277; p. 630.
Bardelli, Arturo, Milan, Italy. Automatic firearm. No. 1,355,378; Oct. 12; v. 279; p. 237.
Bardill, John O., Edwards, N. Y. Ore-sizing apparatus. No. 1,332,967; Mar. 9; v. 272; p. 203.
Bardol, Frank V. E., Buffalo, N. Y. Asphalt-cutter. No. 1,337,426; Apr. 20; v. 273; p. 461.
Bardon, Claud J., Grants Pass, Oreg., assignor to The Union Metal Manufacturing Company, Canton, Ohio. Mud-dog. No. 1,335,546; Mar. 30; v. 272; p. 854.
Barducci, Pilade, Naples, Italy. Drying plant. No. 1,344,163; June 22; v. 275; p. 681.
Bardwell, Frederick A., Boston, Mass. Inhaler for administration of anesthetics. No. 1,359,312; Nov. 16; v. 280; p. 516.
Bares, John J., Cleveland, Ohio. Radiator for automobiles. No. 1,361,807; Dec. 14; v. 281; p. 212.
Barfield, Henry B., Fort Necessity, La. Cotton-planter. No. 1,362,834; Dec. 21; v. 281; p. 466.
Barfoed, Svend, Berkeley, Calif. Electric furnace. No. 1,336,939; Apr. 13; v. 273; p. 205.
Bargar, Frederick C., Columbus, Ohio. Vehicle-wheel. No. 1,359,949; Nov. 23; v. 280; p. 689.
Bargar, Frederick C., assignor to Nu-Ex Fire Appliance Company, Columbus, Ohio. Fire-extinguisher. No. 1,338,166; Apr. 27; v. 273; p. 671.
Barger, Bernard J., El Paso, Tex. Saw gaging and setting tool. No. 1,328,554; Jan. 20; v. 270; p. 412.
Barger, Bernard J., El Paso, assignor of one-half to J. C. Daugherty, Fort Bliss, Tex. Saw-filing device. No. 1,354,041; Oct. 5; v. 279; p. 98.
Barger, Henry C., New York, N. Y. Toy. No. 1,356,901; Oct. 26; v. 279; p. 621.
Barger, Walter R., Benkelman, Nebr. Calf-weaner. No. 1,338,606; Apr. 27; v. 273; p. 753.
Barger, William F., Norwood, Ohio. Sash-lock. No. 1,331,976; Feb. 24; v. 271; p. 614.
Bargery, Albert V., Sioux City, Iowa. Sled. No. 1,355,379; Oct. 12; v. 279; p. 237.
Barghausen, John F., Washington, D. C. Fruit grader and sizer. No. 1,338,276; Apr. 27; v. 273; p. 691.
Barhoff, Fred W., assignor to The Hartford Storage Battery Manufacturing Company, Hartford, Conn. Method of and means for sealing storage-battery connectors and posts. No. 1,328,357; Jan. 20; v. 270; p. 375.
Barhoff, Fred W., assignor to The Hartford Storage Battery Manufacturing Company, Hartford, Conn. Means for sealing storage-battery covers in cells. No 1,328,358; Jan. 20; v. 270; p. 375.
Barhoff, Fred W., assignor to The Hartford Storage Battery Manufacturing Company, Hartford, Conn. Method of and means for sealing terminal posts in storage-battery covers. No. 1,328,359; Jan. 20; v. 270; p. 375.
Bark, Arnold P., assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Lifting-cylinder valve for forging-presses. No. 1,343,024; June 8; v. 275; p. 330.
Barker, Alpheus E., assignor to Alexander Brothers, Philadelphia, Pa. Machine for making round belting. No. 1,345,907; July 6; v. 276; p. 114.
Barker, Charles J., Columbus, Ohio. Window-screen. No. 1,351,733; Sept. 7; v. 278; p. 4.
Barker, England J., Chicago, Ill. Autographic register. No. 1,338,167; Apr. 27; v. 273; p. 671.
Barker, Eugene G., Glenwood, Iowa. Corn-harvester. No. 1,345,527; July 6; v. 276; p. 39.
Barker, F. R., Boston, and W. R. Soper, Lynn, Mass. Measuring-machine. No. 1,351,732; Sept. 7; v. 278; p. 3.
Barker, Francis H., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Explosive shell. No. 1,340,871; May 25; v. 274; p. 621.
Barker, Frederic R. (See Ruhe, C., and Barker.)
Barker, Frederick W. (See Gillespie, G. C., and Barker.)
Barker, George P., and O. E. Underwood, Indianapolis, Ind. Safety apparatus for elevators. No. 1,351,827; Sept. 7; v. 278; p. 22.
Barker, George R., Chicago, Ill. Cushioned wheel. No. 1,328,779; Jan. 20; v. 270; p. 454.
Barker, George S., Denver, Colo. Valve. No. 1,328,780; Jan. 20; v. 270; p. 454.
Barker, Gerald, London, England. Driving-gear of the friction type. No. 1,363,831; Dec. 28; v. 281; p. 699.
Barker, Howard. (See Goldsmith, B. B., and Barker.)
Barker, Howard. (See Goldsmith, B. B., Burt, and Barker.)
Barker, J. Abner. (See Butler, Junius W., assignor.)
Barker, Richard F., Bellows Falls, Vt. Process and apparatus for desiccating liquids. No. 1,362,590; Dec. 21; v. 281; p. 417.
Barker-Sweet Manufacturing Company, The. (See Sweet, Parker H., assignor.)
Barker, Sydney P., New York, N. Y. Auxiliary lever attachment for jacks. No. 1,362,462; Dec. 14; v. 281; p. 341.
Barker, William R., Vanzant, Mo. Agricultural implement. No. 1,343,696; June 22; v. 275; p. 629.
Barkis, Henry B., Sr., Lodi, Calif. Nut-bleaching apparatus. No. 1,353,209; Sept. 21; v. 278; p. 387.
Barkschat, Henry. (See Blinn, Edmund B., assignor.)
Barksdale, George R., Schenectady, N. Y. Air-moistening device. No. 1,330,574; Feb. 10; v. 271; p. 261.
Barksdale, Sherod P., Philadelphia, Pa. Step. No. 1,336,718; Apr. 13; v. 273; p. 252.
Barletta, John, San Francisco, Calif. Endless-tread tractor. No. 1,364,020; Dec. 28; v. 281; p. 735.
Barletta, Peter, Lyndhurst, N. J. Alarm-clock. No. 1,350,693; Aug. 24; v. 277; p. 671.
Barley, Clarence J., Altoona, Pa. Locomotive-cab window. No. 1,363,552; Dec. 28; v. 281; p. 645.
Barley, Joseph M., Prince Albert, Saskatchewan, Canada. Multiple horse-hitch. No. 1,357,830; Nov. 2; v. 280; p. 120.
Barling, Walter H., London, England. Fuselage. No. 1,347,670; July 27; v. 276; p. 640.
Barlow, J. E., *et al.* (See Christensen, Niels C., assignor.)
Barlow, James H., Lewiston, Me., assignor to Draper Corporation, Hopedale, Mass. Feeler-motion for looms. No. 1,362,107; Dec. 14; v. 281; p. 272.
Barlow, John W., Quincy, assignor, by mesne assignments, to Boston Sanitary Belt Company, Boston, Mass. Napkin-clasp. No. 1,331,178; Feb. 17; v. 271; p. 443.
Barlow, Samuel E., Denver, Colo. Power-operated tongs. No. 1,346,160; July 13; v. 276; p. 226.
Barlow, Samuel E., Denver, Colo. Multiple-hoist push-car. No. 1,351,225; Aug. 31; v. 277; p. 636.
Barlow, Samuel E., Denver, Colo. Derrick-car. No. 1,351,226; Aug. 31; v. 277; p. 836.
Barlow, William L., Clear Lake, Iowa. Device for catching and holding hogs. No. 1,353,376; Sept. 21; v. 278; p. 419.
Barlow, William N., Yonkers, N. Y. Electric relay or circuit-closing device. No. 1,348,842; Aug. 10; v. 277; p. 190.
Barnaby, Charles W., New York, N. Y. Key-lever. No. 1,331,689; Feb. 24; v. 271; p. 559.
Barnaby, Charles W., New York, N. Y. Type-bar action. No. 1,334,012; Mar. 16; v. 272; p. 460.
Barnaby, Charles W., New York, N. Y. Manufacture of multiple bearings. No. 1,341,205; May 25; v. 274; p. 686.
Barnard, Charles, and H. H. Gates, Pasadena, Calif. Sun fruit-drier. No. 1,362,216; Dec. 14; v. 281; p. 294.
Barnard, Charles S., assignor to The Bassick Company, Bridgeport, Conn. Latch. No. 1,334,481; Mar. 23; v. 272; p. 593.
Barnard, Charles S., assignor to The Bassick Co., Bridgeport, Conn. Caster-socket. No. 1,345,908; July 6; v. 276; p. 114.
Barnard, Dudley J., Barking, England. Grab. No. 1,354,651. Sept. 21; v. 278; p. 475.
Barnard, Elmer, Cleburne, Tex. Mirror-holder. No. 1,327,608; Jan. 13; v. 270; p. 197.
Barnard, Harry, assignor to Union Draft Gear Co., Chicago, Ill. Draft-gear. No. 1,356,254; Oct. 19; v. 279; p. 448.

Digitized by Google

Barnard, Hugh A., Houstonville, N. C. Folding chicken-coop. No. 1,327,868; Jan. 6; v. 270; p. 91.
Barnard, Joseph, Hackney, London, assignor to H. E. and G. G. Bloch, Birmingham, England. Toy animal. No. 1,353,707; Sept. 21; v. 278; p. 486.
Barnard, Samuel G. (See Dotzer, H., and Barnard.)
Barnebey, Oscar L., Cleveland, Ohio. Manufacture of cyanids. No. 1,355,642; Oct. 12; v. 279; p. 287.
Barnes, Albert J., and C. A. Fedder, West Haven, assignors to The Faraday Co., New Haven, Conn. Electric heater and trouble-lamp. No. 1,359,780; Nov. 23; v. 280; p. 655.
Barnes, Avery, Danville, Ill. Valve-timing gear for explosive-engines. No. 1,340,362; May 18; v. 274; p. 454.
Barnes, Benie A., assignor of one-half to C. W. Early, Arkansas City, Kans. Composition for cleaning and polishing. No. 1,340,747; May 18; v. 274; p. 527.
Barnes, Carl C., assignor of one-half to B. W. Jones, Portland, Oreg. Wrench. No. 1,344,573; June 22; v. 275; p. 763.
Barnes, Charles W., Logansport, Ind. Vacuum cleaning apparatus. No. 1,336,994; Apr. 13; v. 273; p. 304.
Barnes, Charles W., Puyallup, Wash., assignor of one-fourth to B. W. Colner, Tacoma, Wash. Hose and pipe coupling. No. 1,336,128; Apr. 6; v. 273; p. 80.
Barnes, Frank. (See Hutchinson, J. T., Shaw, and Barnes.)
Barnes, Frank R., Dupree, S. D. Centrifugal gun. No. 1,327,518; Jan. 6; v. 270; p. 119.
Barnes, Frederick W., assignor to Eastman Kodak Company, Rochester, N. Y. Developing-rack. No. 1,339,088; May 4; v. 274; p. 82.
Barnes, Frederick W., and E. C. Allen, assignors to Eastman Kodak Company, Rochester, N. Y. Permutation-locked receptacle. No. 1,358,672; Nov. 9; v. 280; p. 348.
Barnes, George W., and D. C. Travis, assignors to Simmons Company, Kenosha, Wis. Spring construction. No. 1,352,574; Sept. 14; v. 278; p. 202.
Barnes, Harry E., *et al.* (See Grover, Arthur C., assignor.)
Barnes, Ira W., East Liverpool, Ohio. Rivet-cutter. No. 1,350,206; Aug. 17; v. 277; p. 520.
Barnes, James W., assignor to Estey Piano Co., New York, N. Y. Tracking device. No. 1,328,260; Jan. 20; v. 270; p. 356.
Barnes, John S., Detroit, Mich. Wire fabric. No. 1,339,541; May 11; v. 274; p. 242.
Barnes, John S., assignor of one-fourth to R. F. Donaldson and one-fourth to J. T. Alton, Detroit, Mich. Device for weaving wire fabric. No. 1,358,052; Nov. 9; v. 280; p. 224.
Barnes, John W., Rock Ferry, Birkenhead, England. Grinding apparatus specially applicable for grinding the interior of the A-tubes of guns. No. 1,336,014; Apr. 6; v. 273; p. 59.
Barnes, Joseph. (See Veilleux, L., and Leveque, assignors.)
Barnes & Kobert Manufacturing Company, The. (See Benedict, Paul M., assignor.)
Barnes, Peter, *et al.* (See de Esparya, Timoteo R., assignor.)
Barnes, Philip E. (See Laughton, R. E., and Barnes.)
Barnes, Samuel C., Williamsport, Md., assignor to Frick Company, Waynesboro, Pa. Oil-pump. No. 1,337,581; Apr. 20; v. 273; p. 490.
Barnes, Theodore, Des Moines, Iowa. Combined switch and permutation-lock. No. 1,329,693; Feb. 3; v. 271; p. 65.
Barnes, Uriah L., San Diego, Calif. Transmission mechanism and casing. No. 1,331,139; Feb. 17; v. 271; p. 436.
Barnett, Anthony, Stony Bottom, W. Va. Dirigible headlight. No. 1,359,313; Nov. 16; v. 280; p. 517.
Barnett, Herbert, Kansas City, Mo. Oil-can. No. 1,331,409; Feb. 17; v. 271; p. 486.
Barnett, J. T., *et al.* (See Jochumsen, J., and Netcott, assignors.)
Barnett, Jacob I., Newton, Mass. Garment. No. 1,349,359; Aug. 10; v. 277; p. 292.
Barnett, John B., assignor of one-half to R. N. Tutt, Kansas City, Mo. Automatic display-sign. No. 1,336,411; Apr. 13; v. 273; p. 193.
Barnett, John H., Tettenhall, England. Seat of motor-cars. No. 1,353,708; Sept. 21; v. 278; p. 487.
Barnett, Otto R. (See Scott, John M., assignor.)
Barnett, Otto R. (See Sponenburg, Hiram H., assignor.)
Barnett, William A., Lincoln, Nebr. Attachment for garment-turning machines. No. 1,342,937; June 8; v. 275; p. 313.
Barnhart, Clarence D., Brooklyn, assignor to W. S. Rockwell Company, New York, N. Y. Conveyer for furnaces. No. 1,333,371; Mar. 9; v. 272; p. 278.
Barnhart, Clarence V., Waynesboro, Pa., assignor to J. K. Hoffman and W. M. Baechtel, Hagerstown, Md. Seed-planter. No. 1,357,438; Nov. 2; v. 280; p. 45.
Barnhart, John E. (See Hayes, J. P., and Barnhart.)
Barnhart, Mollie E. (See Freeman, Alpheus J., assignor.)
Barnhill, E. B., and J. Stone, Indianapolis, Ind. Auto-tire pump. No. 1,351,503; Aug. 31; v. 277; p. 891.
Barnhoith, C. A. (See Nelson, Oscar T., assignor.)

Barniak, Feliks, Rosemont, W. Va. Railway-tie. No. 1,345,572; July 6; v. 276; p. 48.
Barniak, Feliks, Rosemont, W. Va. Automobile-wheel attachment. No. 1,360,866; Nov. 30; v. 280; p. 937.
Barningham, Vincent, Reading, and S. G. Ashby, Edenbridge, England. Automatic brake. No. 1,346,628; July 13; v. 276; p. 318.
Barnitz, Richard H., Washington, D. C. Mail-bag catcher. No. 1,362,463; Dec. 14; v. 281; p. 341.
Barnstead, Robert P., Boston, Mass. Electric heater. No. 1,360,999; Dec. 7; v. 281; p. 4.
Barnstead, Sidney G., Boston, Mass. Receptacle. No. 1,348,134; July 27; v. 276; p. 732.
Barnum, Lawrence B., *et al.* (See Mendell, Lester, assignor.)
Barnum, Paul, San Francisco, Calif. Tire-carrier. No. 1,340,431; May 18; v. 274; p. 468.
Barnum, Raymond. (See Wilson, Walter, assignor.)
Barnum, Thomas E., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controller. No. 1,335,418; Mar. 30; v. 272; p. 830.
Baron, Carol F., Bridgeport, Conn. Sectional mold for concrete walls. No. 1,358,693; Nov. 16; v. 280; p. 397.
Baron, Charles S., Tiffin, Ohio. Liquid-container. No. 1,340,872; May 25; v. 274; p. 621.
Baron, Frank, New York, N. Y. Clothes-line support. No. No. 1,336,186; Apr. 6; v. 273; p. 91.
Baron, Mary C., Hampden Meadows, R. I. Brooder No. 1,329,494; Feb. 3; v. 271; p. 28.
Baron, Max D., New York, assignor to Whitteman Brothers, Brooklyn, N. Y. Machine for making hollow receptacles. No. 1,358,610; Nov. 9; v. 280; p. 335.
Baron, Robert R., assignor of one-half to G. A. Hug, Indianapolis, Ind. Variable-speed device for cycles. No. 1,350,288; Aug. 17; v. 277; p. 544.
Barr, Alpha H., Ventura, Calif. Signaling device. No. 1,356,185; Oct. 19; v. 279; p. 435.
Barr, Archibald, and W. Stroud, Anniesland, Glasgow, Scotland. Mechanism and range-finder for measuring vertical heights. No. 1,329,356; Feb. 3; v. 271; p. 3.
Barr, Archibald, and W. Stroud, Anniesland, Glasgow, Scotland. Long-base single-observer range-finder. No. 1,343,025; June 8; v. 275; p. 330.
Barr, Archibald, and W. Stroud, assignors to Barr and Stroud, Limited, Anniesland, Glasgow, Scotland. Mechanical and electrical relay. No. 1,331,893; Feb. 24; v. 271; p. 598.
Barr, Archibald, and W. Stroud, assignors to Barr and Stroud, Limited, Anniesland, Glasgow, Scotland. Apparatus for the conversion of motion of one type into motion of another type. No. 1,339,643; May 11; v. 274; p. 261.
Barr, Archibald, and W. Stroud, assignors to Barr and Stroud, Limited, Anniesland, Glasgow, Scotland. Variable-speed hand-driving mechanism. No. 1,348,690; Aug. 3; v. 277; p. 108.
Barr, Archibald, W. Stroud, Anniesland, Glasgow, Scotland, and E. E. F. d'Albe, London, England, assignors to Barr and Stroud, Limited, Glasgow, Scotland. Optophone. No. 1,350,954; Aug. 24; v. 277; p. 720.
Barr Company, The. (See Barr, Samuel C., assignor.)
Barr, David W., Des Moines, Iowa. Self-measuring lubricant-delivery device. No. 1,336,187; Apr. 6; v. 273; p. 91.
Barr, Edward B., Newton, Kans. Door-latch. No. 1,353,447; Sept. 21; v. 278; p. 433.
Barr, Franklin E., trustee. (See Krauss, Max, assignor.)
Barr, John H., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,332,375; Mar. 2; v. 272; p. 89.
Barr, John H., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Bomb-dropping device. No. 1,339,432; May 11; v. 274; p. 220.
Barr, John U., New York, N. Y. Advertising-clock. No. 1,327,898; Jan. 13; v. 270; p. 251.
Barr, Samuel C., Chillicothe, Ohio, assignor to The Barr Company. Eye-testing mechanism. No. 1,345,573; July 6; v. 276; p. 48.
Barr and Stroud. (See Barr, A., and Stroud, assignors.)
Barr, Wilson, Trenton, Ontario, Canada. Account-file. No. 1,361,665; Dec. 7; v. 281; p. 138.
Barraclough, Horatio L., London, England. Construction of reinforced-concrete floors. No. 1,328,555; Jan. 20; v. 270; p. 413.
Barraja-Frauenfelder, Joseph, assignor to The Lake Torpedo Boat Company of Maine, Bridgeport, Conn. Hydroplane-operating mechanism for submarine boats. No. 1,330,754; Feb. 10; v. 271; p. 295.
Barrell, Charles S., Boston, Mass. Swivel device. No. 1,327,013; Jan. 6; v. 270; p. 26.
Barrell, Charles S., Boston, Mass., assignor to Barrell Holding and Manufacturing Company. Swivel device. No. 1,358,814; Nov. 16; v. 280; p. 422.
Barrell, Charles S., Boston, Mass., assignor to Barrell Holding and Manufacturing Company. Tire-chain. No. 1,358,815; Nov. 16; v. 280; p. 422.
Barrell Holding and Manufacturing Company. (See Barrell, Charles S., assignor.)
Barrell Holding and Manufacturing Company. (See Ratzburg, Victor P., assignor.)

Digitized by Google

Alphabetical list of patentees—Continued.

Barrell, William L., Lawrence, Mass. Thread-parting mechanism for looms. No. 1,340,207; May 18; v. 274; p. 425.

Barrell, William L., assignor to Lawrence Duck Company, Lawrence, Mass. Weft-replenishing loom. (Reissue.) No. 14,090; Nov. 23; v. 280; p. 748.

Barrett, Andrew J., Britannia Beach, British Columbia, Canada, assignor of one-half to G. Bergquist, Seattle, Wash. Light-holder. No. 1,349,312; Aug. 10; v. 277; p. 282.

Barrett, Andrew J., Britannia Beach, British Columbia, Canada, assignor of one-half to G. Bergquist, Seattle, Wash. Elevator safety device. No. 1,349,313; Aug. 10; v. 277; p 283.

Barrett Company, The. (See Bailey, G. C., and Boettner, assignors.)

Barrett Company, The. (See Canon, Frank A., assignor.)

Barrett Company, The. (See Howell, Kenneth B., assignor.)

Barrett Company, The. (See Miller, Stuart P., assignor.)

Barrett Company, The. (See Perry, Ray P., assignor.)

Barrett Company, The. (See Roberts, Leroy C., assignor.)

Barrett Company, The. (See Rothermel, Curtis J., assignor.)

Barrett Company, The. (See Weiss, J. M., and Downs, assignors.)

Barrett Company, The. (See Weiss, J. M., Bailey, and Potter, assignors.)

Barrett Company, The. (See Weiss, John M., assignor.)

Barrett Company, The. (See Yeager, Frank W., assignor.)

Barrett, Dwight O., Lima, Ohio. Engine cylinder and bed. No. 1,329,878; Feb. 3; v. 271; p. 100.

Barrett, Ferdinand A., Jr., Niagara Falls, N. Y. Switch. No. 1,350,916; Aug. 24; v. 277; p. 712.

Barrett, Halsey M., *et al.*, receivers. (See Hogan, John L., Jr., assignor.)

Barrett, Herbert L., Opportunity, Wash. Feeding mechanism. No. 1,339,051; May 4; v. 274; p. 75.

Barrett, Herbert L., Opportunity, Wash. Pusher-feed for gang-saws. No. 1,348,389; Aug. 3; v. 277; p. 51.

Barrett, James, New York, N. Y. Shaving kit. No. 1,343,703; June 15; v. 275; p. 527.

Barrett, James V., Bordentown, and T. J. Barrett, Fieldsboro, N. J. Road or pavement. No. 1,351,607; Aug. 31; v. 277; p. 912.

Barrett, Joseph C., Brooklyn, assignor to American Kron Scale Company, New York, N. Y. Weighing-scale. No. 1,352,935; Sept. 14; v. 278; p. 274.

Barrett, Roy, Palmyra, N. Y. Vehicle. No. 1,343,993; June 22; v. 275; p. 649.

Barrett, Thomas A., Englewood, N. J., assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Starting means for electric apparatus. No. 1,339,914; May 11; v. 274; p. 313.

Barrett, Thomas F., South Pottstown, Pa. Power transmission and storage apparatus. No. 1,352,936; Sept. 14; v. 278; p. 274.

Barrett, Thomas J. (See Barrett, J. V., and Barrett.)

Barrett, Wilbert F., Haverhill, Mass. Pin-setting mechanism. No. 1,335,638; Mar. 30; v. 272; p. 872.

Barrett, William H., Los Angeles, Calif. Automatic brush. No. 1,331,465; Feb. 17; v. 271; p. 496.

Barrett, William W., Lewiston, Idaho. Planter. No. 1,336,124; Apr. 6; v. 273; p. 80.

Barri, Emma F., Brooklyn, N. Y. Stocking-supporting clasp. No. 1,363,950; Dec. 28; v. 281; p. 722.

Barrickman, Bart M., Portland, Oreg. Clothespin. No. 1,344,254; June 22; v. 275; p. 699.

Barrie, Charles E., Brattleboro, Vt. Road-sweeper. No. 1,335,637; Mar. 30; v. 272; p. 871.

Barringer, Andrew L., Statesville, N. C. Train-line connection. No. 1,361,666; Dec. 7; v. 281; p. 138.

Barringer, Daniel M., Haverford, Pa. Gun-sight. No. 1,363,553; Dec. 28; v. 281; p. 645.

Barrington, Fred G., Venice, Calif. Fire-escape. No. 1,351,734; Sept. 7; v. 278; p. 4.

Barro, Anthony F., assignor of one-half to A. A. Dibblee, New York, N. Y. Razor-blade holder. No. 1,351,987; Sept. 7; v. 278; p. 54.

Barron, Frederick H., Entiat, Wash. Extension for ladder-legs. No. 1,329,740; Feb. 3; v. 271; p. 73.

Barron, William L., assignor to The Singer Manufacturing Company, New York, N. Y. Attaching garment-hooks to fabrics. No. 1,354,795; Oct. 5; v. 279; p. 70.

Barron, William L., New York, N. Y., assignor to The Singer Manufacturing Company. Work-holder for button-sewing machines. No. 1,355,119; Oct. 12; v. 279; p. 185.

Barron, William L., Newark, N. J., assignor to The Singer Manufacturing Company. Work-holder for button-sewing machines. No. 1,359,858; Nov. 23; v. 280; p. 670.

Barron, William L., Newark, N. J., assignor to The Singer Manufacturing Company. Method of and machine for ornamenting hosiery. No. 1,361,218; Dec. 7; v. 281; p. 46.

Barron, William L., New York, N. Y., and F. E. Osol, Elizabeth, N. J., assignors to The Singer Manufacturing Company. Thread-cutting mechanism for sewing-machines. No. 1,336,808; Apr. 13; v. 273; p. 269.

Barron, William L., New York, N. Y., and A. F. Fifield, Newark, N. J., assignors to The Singer Manufacturing Company. Article-attaching machine. No. 1,354,794; Oct. 5; v. 279; p. 70.

Barron, William L., Newark, and W. D. Michener, Roselle Park, N. J., assignors to The Singer Manufacturing Company. Work-holder for sewing-machines. No. 1,361,217; Dec. 7; v. 281; p. 46.

Barrow, David W., Chattanooga, Tenn. Dental appliance. No. 1,338,415; Apr. 27; v. 273; p. 717.

Barrow, Morris, New York, N. Y. Undergarment. No. 1,330,996; Feb. 17; v. 271; p. 410.

Barrow, Thomas, Wheatland, assignor to Blaw-Knox Company, Hoboken, Pa. Staybolt connection for hollow structures and forming same. No. 1,333,372; Mar. 9; v. 272; p. 278.

Barrows, Allan S., Chicago, Ill. Making edge-corrugated sheet-metal articles. No. 1,341,967; June 1; v. 275; p. 70.

Barrows, Allan S., Chicago, Ill. Sheet-metal door. No. 1,342,400; June 1; v. 275; p. 153.

Barrows, Donald S., Rochester, N. Y. Draft-rigging. No. 1,358,499; Nov. 9; v. 280; p. 314.

Barrows, Donald S., Rochester, N. Y. Car-underframe. No. 1,358,500; Nov. 9; v. 280; p. 314.

Barrows, Donald S., Rochester, N. Y. Car-underframe. No. 1,358,501; Nov. 9; v. 280; p. 314.

Barrows, Donald S., Rochester, N. Y. Draft-rigging. No. 1,358,502; Nov. 9; v. 280; p. 314.

Barrows, Harrington S., Cleveland, Ohio. Liquid-receptacle. No. 1,343,299; June 15; v. 275; p. 447.

Barrows, Nathaniel H., *et al.* (See Wiseman, Goodwin W., assignor.)

Barrows, Robert Y., Rutherford, and G. H. Harmon, Glen Ridge, N. J. Powder and rouge container. No. 1,363,218; Dec. 28; v. 281; p. 580.

Barrows, Walter C., Hartford, Conn. Game apparatus. No. 1,332,021; Feb. 24; v. 271; p. 622.

Barry, David R., Beaumont, Tex. Book-holding device. No. 1,337,582; Apr. 20; v. 273; p. 490.

Barry, Garrett J., Sandusky, Ohio. Mail-crane. No. 1,357,213; Nov. 2; v. 280; p. 3.

Barry, Garrett J., Sandusky, Ohio. Mail-crane and operating means therefor. No. 1,360,354; Nov. 30; v. 280; p. 836.

Barry, Gerald G., Chicago, Ill. Demountable rim. No. 1,358,923; Nov. 16; v. 280; p. 443.

Barry, Henry O., Springfield, Mass. Fisherman's reel. No. 1,333,697; Mar. 16; v. 272; p. 401.

Barry, James, Hercules, Calif., assignor of one-half to D. J. Cotter, Harris, Kans. Snow-melter. No. 1,333,373; Mar. 9; v. 272; p. 279.

Barry, John E., Jr., Chicago, Ill. Electric-lamp support. No. 1,350,056; Aug. 17; v. 277; p. 500.

Barry, Walter M., New York, N. Y. Educational toy. No. 1,351,608; Aug. 31; v. 277; p. 912.

Barry, William A., Little Rock, Ark. Safety-razor. No. 1,351,712; Aug. 31; v. 277; p. 932.

Barry, William A., Little Rock, Ark. Safety-razor. No. 1,351,713; Aug. 31; v. 277; p. 932.

Barsness, Herman J., Black Earth, Wis. Cement section for circular buildings. No. 1,350,484; Aug. 24; v. 277; p. 620.

Barstow, Edwin O. (See Dow, H. H., and Barstow.)

Barstow, Edwin O., assignor to The Dow Chemical Company, Midland, Mich. Making sodium sulfite. No. 1,343,897; June 22; v. 275; p. 630.

Barstow, Edwin O., assignor to The Dow Chemical Company, Midland, Mich. Making magnesium arsenate. No. 1,344,018; June 22; v. 275; p. 654.

Barstow, Edwin O., assignor to The Dow Chemical Company, Midland, Mich. Making lead arsenate. No. 1,349,707; Aug. 17; v. 277; p. 433.

Barstow, Edwin O., assignor to The Dow Chemical Company, Midland, Mich. Making magnesium chlorid and the like. No. 1,359,782; Nov. 23; v. 280; p. 656.

Barstow, George E., assignor to Thomson Electric Welding Company, Lynn, Mass. Electric heating and bending device. No. 1,332,658; Mar. 2; v. 272; p. 92.

Bart, Charles, New York, N. Y. Display-rack canopy. No. 1,349,255; Aug. 10; v. 277; p. 272.

Bartell, Charles J., Elmont, N. Y. Clothespin. No. 1,359,657; Nov. 23; v. 280; p. 630.

Bartels, Carl. (See Mosler, M., and Bartels.)

Bartels, Gudrun, administrator. (See Bartels, Knud.)

Bartels, Knud, deceased; G. Bartels, administrator, Copenhagen, Denmark. Reinforced-concrete ship. No. 1,356,956; Oct. 26; v. 279; p. 632.

Bartels, Reinhard E., Lynn, Mass. Making shank-stiffeners. No. 1,362,835; Dec. 21; v. 281; p. 466.

Bartelstone, Louis, Brooklyn, N. Y. Compensating-press. No. 1,334,588; Mar. 23; v. 272; p. 614.

Bartelt, William A., *et al.* (See Gauger, Frank A., assignor.)

Bartenstein, John J., Cleveland, Ohio, assignor to The Fairmount Tool and Forging Co. Valve-spring holder. No. 1,361,219; Dec. 7; v. 281; p. 47.

Barth, Harry, San Francisco, Calif. Toy. No. 1,329,575; Feb. 3; v. 271; p. 43.

Bartha, Julius. (See Glassmann, A. E., and Bartha.)

Barthelemy, Louis J., San Juan, Porto Rico. Projectile. No. 1,333,199; Mar. 9; v. 272; p. 246.

Digitized by Google

Alphabetical list of patentees—Continued.

Barthels Manufacturing Company. (See Wiberley, Frank, assignor.)
Barthes, Alfred H., Alger-Belcourt, Algeria. Water-distributer. No. 1,342,734; June 8; v. 275; p. 272.
Bartholdi, Simpert C. (See Kurt, O. T., and Bartholdi.)
Bartholdy, Max, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Sighting device. No. 1,364,021; Dec. 28; v. 281; p. 735.
Bartholomew, Fred R. (See Vierling, Bartholomew, and Smith.)
Bartholomew, George P., Essex Fells, N. J., assignor to American Abrasive Metals Co. Wear-resisting structure. No. 1,330,973; Feb. 17; v. 271; p. 406.
Bartholomew, John B., assignor to Avery Company, Peoria, Ill. Steering mechanism for tractors. No. 1,328,808; Jan. 27; v. 270; p. 488.
Bartholomew, John B., Peoria, Ill., assignor to Avery Company. Gang-plow. No. 1,331,044; Feb. 17; v. 271; p. 419.
Bartholomew, John B., Peoria, Ill., assignor to Avery Company. Plow. No. 1,359,859; Nov. 23; v. 280; p. 670.
Bartholomew, John B., assignor to Avery Company, Peoria, Ill. Plow. No. 1,359,860; Nov. 23; v. 280; p. 670.
Bartholomew, Lemuel A., and W. H. Bird, Tampa, Fla. Woodworking-machine. No. 1,335,547; Mar. 30; v. 272; p. 854.
Bartholomew, Wallace J. (See Dann, Frederick J., assignor.)
Bartholomew, William, assignor to Troy Laundry Machinery Company, Ltd., Chicago, Ill. Drying-tumbler. No. 1,327,609; Jan. 13; v. 270; p. 197.
Bartholomew, William, assignor to Troy Laundry Machinery Co., Ltd., Chicago, Ill. Ironing-machine-shaft support. No. 1,330,832; Feb. 17; v. 271; p. 377.
Bartholomew, William, assignor to Troy Laundry Machinery Co. Ltd., Chicago, Ill. Centrifugal extractor mechanism. No. 1,344,749; June 29; v. 275; p. 862.
Bartholomew, William, assignor to Troy Laundry Machinery Company, Limited, Chicago, Ill. Washing-machine cylinder. No. 1,346,291; July 13; v. 276; p. 252.
Bartholomew, William, Chicago, Ill., assignor to Troy Laundry Manufacturing Company. Safety mechanism for ironing-machines. No. 1,346,872; July 20; v. 276; p. 425.
Bartholomew, William, assignor to Troy Laundry Machinery Co., Ltd., Chicago, Ill. Heat-prevention means for extractors. No. 1,346,873; July 20; v. 276; p. 426.
Bartholomew, William, assignor to Troy Laundry Machinery Company, Limited, Chicago, Ill. Clamp. No. 1,361,956; Dec. 14; v. 281; p. 242.
Bartholomew, William, and F. Balzer, assignors to Troy Laundry Machinery Co., Ltd., Chicago, Ill. Centrifugal extractor mechanism. No. 1,332,876; Mar. 2; v. 272; p. 39.
Bartini, Joseph F., Washington, D. C. Bread cutter and carrier. No. 1,345,118; June 29; v. 275; p. 932.
Bartlett, Burnett O., Buffalo, N. Y. Electric-railway track. No. 1,358,924; Nov. 16; v. 280; p. 443.
Bartlett, C. O., and Snow Company. (See Sawhill, Edgar P., assignor.)
Bartlett, Eugene P., Amherst, Mass. Detachable finger-hook for fishing-rods. No. 1,331,312; Feb. 17; v. 271; p. 467.
Bartlett, Fred E., assignor to American Pin Company, Waterbury, Conn. Safety-pin. No. 1,334,277; Mar. 23; v. 272; p. 555.
Bartlett, George H., San Francisco, Calif. Interfolding-machine. No. 1,347,242; July 20; v. 276; p. 498.
Bartlett, George L., Boston, Mass. Cleaning appliance. No. 1,351,720; Aug. 31; v. 277; p. 933.
Bartlett, George P. (See Lewin, J. A., and Bartlett.)
Bartlett, Harry F., Muskegon, Mich. Tire-building buck. No. 1,333,150; Mar. 9; v. 272; p. 237.
Bartlett Haywood Company, The. (See Fast, Gustave, assignor.)
Bartlett, Henry B., assignor to B. F. Perkins & Son, Inc., Holyoke, Mass. Thickness-gage. No. 1,350,769; Aug. 24; v. 277; p. 685.
Bartlett, Madeline A., Boston, Mass. Game. No. 1,340,001; May 11; v. 274; p. 329.
Bartlett, Omar, and H. Fryer, Lewiston, Idaho. Overhead transit apparatus. No. 1,347,482; July 20; v. 276; p. 546.
Bartlett, Percy H., assignor of one-third to J. B. Seaman and one-third to B. Currier, Philadelphia, Pa. Testing cut-out. No. 1,330,230; Feb. 10; v. 271; p. 197.
Bartlett, Percy H., assignor of one-third to J. B. Seaman and one-third to B. Currier, Philadelphia, Pa. Indicating and testing supply switch-box. No. 1,349,651; Aug. 17; v. 277; p. 422.
Bartlett, Wilbert S. (See Lombard, Levi W., assignor.)
Bartley, John C., and J. G. Ophardt, Platteville, Colo. Shield for automobile-lamps. No. 1,354,873; Oct. 5; v. 279; p. 85.
Bartmann, Ludwig, Schöneberg-Berlin, Germany, assignor to H. Stobwasser, Berlin, Germany. Signaling apparatus for motor-vehicles. No. 1,355,882; Oct. 19; v. 279; p. 374.
Bartness, Olaf, Hawley, Minn. Brick-machine. No. 1,358,925; Nov. 16; v. 280; p. 444.
Barto, Enos E., Deodate, Pa. Intake-manifold for internal-combustion engines. No. 1,359,314; Nov. 16; v. 280; p. 517.
Barton, Charles N., assignor of one-third to J. W. Langley and one-third to W. Peek, Indianapolis, Ind. Sectional machinery-repair washer. No. 1,327,417; Jan. 6; v. 270; p. 100.
Barton, Charles W. (See Ott, H. N., and Barton.)
Barton, Emma M., New Haven, Conn. Package-binder. No. 1,334,512; Mar. 23; v. 272; p. 599.
Barton, Francis M., Chicago, Ill. Concrete building. No. 1,335,780; Apr. 6; v. 273; p. 15.
Barton, Kirtland C., National Stock Yards, Ill., assignor to The French Oil Mill Machinery Co., Piqua, Ohio. Controlling mechanism for meal-cookers and the like. No. 1,349,143; Aug. 10; v. 277; p. 248.
Barton, Louis E., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Composition of matter and producing same. No. 1,342,084; June 1; v. 275; p. 92.
Barton, Louis E., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Obtaining titanic oxid. No. 1,348,843; Aug. 10; v. 277; p. 190.
Barton, Louis E., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Obtaining zirconium oxid. No. 1,351,091; Aug. 31; v. 277; p. 809.
Barton, Louis E., Niagara Falls, N. Y., and H. A. Gardner, Washington, D. C., assignors, by mesne assignments, to Titanium Pigment Company, Inc. Glass and its manufacture. No. 1,362,917; Dec. 21; v. 281; p. 481.
Barton, Morris H. (See Silvius, Ellis T., assignor.)
Barton, Robert, Clifford, Ontario, Canada. Trench-digging machine. No. 1,359,781; Nov. 23; v. 280; p. 655.
Barton, Theophilus F., Schenectady, N. Y., assignor to General Electric Company. Rotary transformer. No. 1,343,026; June 8; v. 275; p. 330.
Bartram, George C., Massapequa, assignor to United Concrete Pipe Co., New York, N. Y. Reinforced-concrete pipe. No. 1,346,629; July 13; v. 276; p. 319.
Bartuzel, Jan, Youngstown, Ohio. Newspaper-holder. No. 1,352,398; Sept. 7; v. 278; p. 131.
Barts, Adolph J., Crandall, Tex. Stalk-chopper. No. 1,329,220; Jan. 27; v. 270; p. 566.
Baruch Electric Controller Corporation. (See Baruch, Sidney N., assignor.)
Baruch, Sydney N., assignor to Baruch Electric Controller Corporation, San Francisco, Calif. Electric-circuit protector. No. 1,352,044; Sept. 7; v. 278; p. 64.
Barufke, Paul R., West Hoboken, N. J. Corn and callus cutter and trimmer. No. 1,359,315; Nov. 16; v. 280; p. 517.
Barwick, James W., Pinepark, assignor to M. A. Palmour, Atlanta, Ga. Combination cane-stripper and knife. No. 1,357,137; Oct. 26; v. 279; p. 668.
Basch, David, Schenectady, N. Y., assignor to General Electric Company. Protective means for systems of distribution. No. 1,347,772; July 27; v. 276; p. 661.
Basch, Edward P., and F. Woodall, Syracuse, N. Y. Device for holding and centering tools for lathes, &c. No. 1,354,715; Oct. 5; v. 279; p. 54.
Bascom, Eric W., Houghton, N. Y. Conveyer-support. No. 1,335,270; Mar. 30; v. 272; p. 802.
Bascom, Eric W., Alstead, N. H. Stable-cleaning means. No. 1,339,089; May 4; v. 274; p. 82.
Bascom, Henry M., assignor to American Telephone and Telegraph Company, New York, N. Y. Telephone system for auditoriums. No. 1,358,053; Nov. 9; v. 280; p. 224.
Bascom, Henry M., assignor to American Telephone and Telegraph Company, New York, N. Y. Trunking system. No. 1,363,219; Dec. 28; v. 281; p. 581.
Bascom, Henry M., assignor to American Telephone and Telegraph Company, New York, N. Y. Signaling device. No. 1,363,220; Dec. 28; v. 281; p. 581.
Baseman, Mary R., St. John, Kans. Kitchen-table. No. 1,361,209; Dec. 7; v. 281; p. 63.
Basford, Harold R., San Francisco, Calif. Foldable bed. No. 1,328,977; Jan. 27; v. 270; p. 521.
Basford, Harold R., San Francisco, Calif. Camp-bed. No. 1,335,548; Mar. 30; v. 272; p. 854.
Bash, Francis E., assignor to Leeds & Northrup Company, Philadelphia, Pa. Optical pyrometric method and apparatus. No. 1,362,281; Dec. 14; v. 281; p. 306.
Bashara, Samuel F., Houston, Tex. Well-cleaner. No. 1,342,618; June 8; v. 275; p. 248.
Bashara, Samuel F., Houston, Tex. Automatic signal-actuating mechanism for railways. No. 1,346,934; July 20; v. 276; p. 438.
Bashaw, Edwin E., Davenport, Iowa, and N. M. Nelson, Rochester, Minn. Valve mechanism for steam-engines. No. 1,363,554; Dec. 28; v. 281; p. 646.
Bashwiner, Charles, Glenmorris, P. Bashwiner, Jamaica, and E. J. Brandt, assignors of one-fourth to E. A. McGuire, Brooklyn, N. Y. Foldable display-box. No. 1,333,893; Mar. 16; v. 272; p. 437.
Bashwiner, Philip. (See Bashwiner, C. and P., and Brandt.)
Basic Products Corporation. (See Popper, Isaac C., assignor.)
Basil, Joseph. (See Girardi, Frank, assignor.)

Digitized by Google

Basil, Joseph, and F. Girardi, Detroit, Mich. Trolley-signal. No. 1,342,579; June 8; v. 275; p. 242.
Basile, Joseph, New York, assignor to Greenpoint Metallic Bed Company, Brooklyn, N. Y. Bed. No. 1,335,549; Mar. 30; v. 272; p. 854.
Baskerville, Charles, New York, N. Y., and C. M. Joyce, Leominster, Mass. Reclaiming paper-stock. No. 1,351,092; Aug. 31; v. 277; p. 809.
Baskin, Frank S. (See Cogger, William B., assignor.)
Baskin, Frank S., Cleveland Heights, Ohio. Table attachment for seats. No. 1,348,924; Aug. 10; v. 277; p. 205.
Baskin, Kenneth S., Cleveland Heights, Ohio. Table attachment for seats. No. 1,351,548; Aug. 31; v. 277; p. 900.
Basler, George, assignor to H. W. Becker, Brockton, Mass. Apparatus for cutting heel-lifts. No. 1,343,759; June 15; v. 275; p. 538.
Basquin, Olin H., Evanston, Ill., assignor to Haskelite Manufacturing Corporation. Bent ply-wood and bending same. No. 1,346,161; July 13; v. 276; p. 226.
Bass, Ernest C., New York, N. Y. Focal-plane shutter. (Reissue.) No. 14,837; Apr. 13; v. 273; p. 340.
Bass, Ernest C., New York, N. Y. Gun-camera. No. 1,345,981; July 6; v. 276; p. 129.
Bass, Ernest I., Cornersville, Tenn. Spark-plug tester. No. 1,333,698; Mar. 16; v. 272; p. 401.
Bassaler, Charles, Paris, France. Supporting device for sheet-treating rollers. No. 1,360,076; Nov. 23; v. 280; p. 713.
Basset, Lucien P., Paris, France. Treating ores in blast-furnaces. No. 1,349,598; Aug. 17; v. 277; p. 412.
Basset, Lucien P., Paris, France. Manufacture of iron and steel directly from the ore, and apparatus therefor. No. 1,360,711; Nov. 30; v. 280; p. 906.
Bassett, George C. (See Mayo, Joseph E., assignor.)
Bassett, George O., Bloomfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Insulating and sealing composition. No. 1,345,057; June 29; v. 275; p. 920.
Bassett, Harry P., Cynthiana, Ky. Treating distiller's slop. No. 1,344,850; June 29; v. 275; p. 881.
Bassett, Harry P., Cynthiana, Ky. Treating distiller's slop. No. 1,344,851; June 29; v. 275; p. 882.
Bassett, Harry P., Cynthiana, Ky. Treating distillers' slops. No. 1,357,138; Oct. 26; v. 279; p. 668.
Bassett, Harry P., Cynthiana, Ky. Basic refractory composition and making same. No. 1,360,355; Nov. 30; v. 280; p. 836.
Bassett, Harry P., Cynthiana, Ky. Producing hardened casein compounds. No. 1,360,356; Nov. 30; v. 280; p. 836.
Bassett, Millard E., Pontiac, Mich. Locking device for motor-vehicles. No. 1,343,609; June 15; v. 275; p. 508.
Bassett, Preston R., assignor to E. A. Sperry, Brooklyn, N. Y. Operating flaming-arc lights for projectors. No. 1,328,311; Jan. 20; v. 270; p. 366.
Bassett, Preston R., and E. A. Sperry, Brooklyn, N. Y. Means for tracing and locating submarine boats. No. 1,333,238; Mar. 9; v. 272; p. 253.
Bassett, Richard W. C., and A. E. Jerram, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Heel-plate-scouring machine. No. 1,353,821; Sept. 28; v. 278; p. 551.
Bassett, Robert N., Company. (See Cocker, Frederick, assignor.)
Bassett, Robert N., Company. (See Runk, William B., assignor.)
Bassett, Robert N., Company. (See Russ, Friend A., assignor.)
Bassett, Robert N., Company. (See Russ, John U., assignor.)
Bassett, Rollo S., Champaign, Ill. Portable building. No. 1,337,745; Apr. 20; v. 273; p. 522.
Bassett, Rollo S., Champaign, Ill. Chimney. No. 1,337,746; Apr. 20; v. 273; p. 522.
Bassett, William H., East Orange, N. J., assignor to Powers Accounting Machine Company, New York, N. Y. Statistical-record card. No. 1,346,162; July 13; v. 276; p. 226.
Bassford, William K. (See MacDowall, John L., assignor.)
Bassham, John W., Columbia, Tenn. Spring-tire. No. 1,344,974; June 29; v. 275; p. 904.
Bassick Co., The. (See Barnard, Charles S., assignor.)
Bassick Company, The. (See Barnard, Charles S., assignor.)
Bassick Company, The. (See Diss, Albert B., assignor.)
Bassick Company, The. (See Harrison, George, Jr., assignor.)
Bassick Company, The. (See Johnson, John A., assignor.)
Bassick Company, The. (See Smith, Friend W., assignor.)
Bassick Manufacturing Company, The. (See Fesler, Andrew, assignor.)
Bassick Manufacturing Company, The. (See Fesler, Douglas F., assignor.)
Bassisty, Michael S., New York, N. Y. Combination-tool. No. 1,356,119; Oct. 19; v. 279; p. 422.
Bassisty, Michael S., New York, N. Y. Seam-binder cover. No. 1,356,120; Oct. 19; v. 279; p. 422.
Bassler, Carlos J., assignor, by mesne assignments, to American Liquid Meter Company, Seattle, Wash. Fluid-metering device. No. 1,355,208; Oct. 12; v. 279; p. 203.
Bassler, Edwin M., Milwaukee, Wis. Electrical welding-machine. No. 1,338,762; May 4; v. 274; p. 21.
Bast, Joseph H., Chicago, Ill. Automobile-lock. No. 1,342,151; June 1; v. 275; p. 106.
Bastable, Edward H., South Braintree, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Work-support. No. 1,337,190; Apr. 20; v. 273; p. 416.
Baster, Joseph E., Cleveland, Ohio. Tractor. No. 1,331,087; Feb. 17; v. 271; p. 427.
Baster, Joseph E., Cleveland, Ohio. Tractor. No. 1,331,088; Feb. 17; v. 271; p. 427.
Bastian, Arthur J., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Molding process and apparatus. No. 1,354,156; Sept. 28; v. 278; p. 620.
Bastian Blessing Co., The. (See Dunham, Melbourne K., assignor.)
Bastian Bros. Company. (See Bott, Joseph, assignor.)
Bastian Bros. Company. (See Brown, Ernest L., assignor.)
Bastian Bros. Company. (See Mitchel, Charles F., assignor.)
Bastian Brothers Co. (See Heindl, William C., assignor.)
Bastian, Charles L., Chicago, Ill. Soda-fountain apparatus. No. 1,327,189; Jan. 6; v. 270; p. 58.
Bastian, Charles L., Chicago, Ill. Hand-operated fire-extinguisher. No. 1,342,580; June 8; v. 275; p. 242.
Bastian, Charles L., Chicago, Ill. Drum-valve. No. 1,349,748; Aug. 17; v. 277; p. 441.
Bastian, Charles O., London, England. Means for positively indicating the condition of steel during heat treatment. No. 1,346,693; July 13; v. 276; p. 331.
Bastord, Walter, Mission City, British Columbia, Canada. Logging-hook. No. 1,334,830; Mar. 23; v. 272; p. 660.
Bastress, Edgar R. (See Wilson, John E., assignor.)
Batchelder, Asa F., Schenectady, N. Y., assignor to General Electric Company. Locomotive or car. No. 1,359,861; Nov. 23; v. 280; p. 671.
Batchelder, Frank R. (See Brothers, Horace C., assignor.)
Batchelder, Frank R. (See Jennings, Victor H., assignor.)
Batchelder, Frank R. (See Lethern, Albert A., assignor.)
Batchelder, Frank R. (See Spalding, George W., assignor.) (Reissue.)
Batchelder, Frank R., Worcester, Mass. Pocketed carrier. No. 1,340,141; May 18; v. 274; p. 413.
Batchelder, Frank R., Worcester, Mass. Pocketed carrier. No. 1,340,142; May 18; v. 274; p. 413.
Batchelor, Harry D., Lakewood, Ohio, assignor to National Carbon Company, Inc. Electric battery. No. 1,329,946; Feb. 3; v. 271; p. 113.
Batchelor, Horton, Boston, Mass. Generating gas. No. 1,352,241; Sept. 7; v. 278; p. 102.
Batchelor, Jamie H., assignor to C. Espy, Savannah, Ga. Vaporizer. No. 1,347,435; July 20; v. 276; p. 537.
Bateman, Ernest, Madison, Wis. Bleaching wood. No. 1,329,284; Jan. 27; v. 270; p. 578.
Bateman Manufacturing Company. (See Willis and Woodworth, assignors.)
Bateman, Samuel L., assignor of one-half to G. A. Lobsitz, Newark, N. J. Sieve. No. 1,347,489; July 27; v. 276; p. 604.
Bateman, William F., Washington, D. C., assignor, by mesne assignments, to Gray Pneumatic Gear Shift Company, Chicago, Ill. Power-transmission mechanism. No. 1,331,475; Feb. 17; v. 271; p. 498.
Bateman, William M., Chester, Pa. Anchor shanks and shackles. No. 1,340,002; May 11; v. 274; p. 329.
Bates, Adelmer M., assignor to Bates Valve Bag Company, Chicago, Ill. Bag-form. No. 1,333,374; Mar. 9; v. 272; p. 279.
Bates, Adelmer M., assignor to Bates Valve Bag Company, Chicago, Ill. Wire-tying bags. No. 1,348,346; Aug. 3; v. 277; p. 43.
Bates, Adelmer M., assignor to Bates Valve Bag Company, Chicago, Ill. Making and filling bags. No. 1,353,210; Sept. 21; v. 278; p. 387.
Bates, Albert J., Jr., assignor, by mesne assignments, to D. S. Gardner, Chicago, Ill. Crimping-machine. No. 1,328,411; Jan. 20; v. 270; p. 385.
Bates, Albert J., Chicago, Ill., assignor to Bates Expanded Steel Truss Co., Wilmington, Del. Discharging mechanism. No. 1,328,809; Jan. 27; v. 270; p. 488.
Bates, Arthur, Leicester, England, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Wax-applying device. No. 1,327,014; Jan. 6; v. 270; p. 26.
Bates, Arthur, Leicester, England, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Work-support. No. 1,340,143; May 18; v. 274; p. 413.
Bates, August B., Washington, D. C. Drip-catcher for refrigerators. No. 1,349,314; Aug. 10; v. 277; p. 283.
Bates, Ben M., Baltimore, Md. Rail-joint. No. 1,328,113; Jan. 13; v. 270; p. 292.
Bates, Carlos G., Denver, Colo. Evaporimeter or atmometer. No. 1,332,659; Mar. 2; v. 272; p. 98.

Digitized by Google

Alphabetical list of patentees—Continued.

Bates, Edith M. (See Wheeler, M., and Bates.)
Bates Expanded Steel Truss Co. (See Bates, Albert J., assignor.)
Bates, Fred L., Alliance, Ohio. Tool-holder. No. 1,331,840; Feb. 24; v. 271; p. 588.
Bates, Frederick, assignor of one-half to Union Iron and Foundry Limited, Calgary, Alberta, Canada. Car-wheel. No. 1,356,957; Oct. 26; v. 279; p. 632.
Bates, George E., Syracuse, N. Y. Direction-indicator for vehicles. No. 1,343,994; June 22; v. 275; p. 649.
Bates, George E., Syracuse, N. Y. Keyhole-illuminating device. No. 1,349,360; Aug. 10; v. 277; p. 292.
Bates, George E., Syracuse, N. Y. Direction-indicator for motor-vehicles. No. 1,355,528; Oct. 12; v. 279; p. 266
Bates, George E., Syracuse, N. Y. Keyhole-illuminating device. No. 1,358,926; Nov. 16; v. 280; p. 444.
Bates, Harry, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,350,000; Aug. 17; v. 277; p. 489.
Bates, Madison F., Lansing, Mich. Extensible control for tractors. No. 1,359,564; Nov. 23; v. 280; p. 612.
Bates, Richard A., Berwick, Pa., assignor to American Car and Foundry Company, New York, N. Y. Lubricating device. No. 1,336,413; Apr. 13; v. 273; p. 194.
Bates Valve Bag Company. (See Bates, Adelmer M., assignor.)
Bates, W. B., and E. L. Stone, Roanoke, Va. Community-mail-box support. No. 1,350,770; Aug. 24; v. 277; p. 686.
Batho, William F., assignor to Enterprise Railway Equipment Company, Chicago, Ill. Car. No. 1,342,085; June 1; v. 275; p. 93.
Bathurst, Charles, *et al.*, executors. (See Thomas, H. S., and Davies.)
Batliner, Carl, assignor to W. S. Dickey, Kansas City, Mo. Automatic and intermittent brander for socket sewer-pipe. No. 1,340,929; May 25; v. 274; p. 632.
Batorfy, Joseph, New York, N. Y. Marine vessel. No. 1,337,747; Apr. 20; v. 273; p. 522.
Batson, William G., Los Angeles, Calif. Sanitary cuspidor-bracket. No. 1,342,889; June 8; v. 275; p. 303.
Battelle, Albert C. (See Alton, W. H., and Alton.)
Batten, James P., Sawtelle, Calif. Folding-bed stand. No 1,355,120; Oct. 12; v. 279; p. 185.
Batterson, William H., Philadelphia, Pa. Ironing-machine. No. 1,362,918; Dec. 21; v. 281; p. 481.
Battle, Richard, Okmulgee, Okla. Device for attaching electric-light fixtures to outlet-boxes. No. 1,351,150; Aug. 31; v. 277; p. 820.
Batty, Ernest J., East Providence, R. I. Nursing-bottle holder. No. 1,336,809; Apr. 13; v. 273; p. 269.
Bauchet, Henry, Sens, Yonne, France. Engine-cylinder. No. 1,358,694; Nov. 16; v. 280; p. 397.
Bauck, Wesley H., Merchantville, and L. R. Mote, Camden, N. J. Towel-rack. No. 1,359,783; Nov. 23; v. 280; p. 656.
Bauder, George T., *et al.* (See Stringer, Melvin, assignor.)
Bauder, Victor S., Fort Plain, N. Y. Silo. No. 1,361,857; Dec. 7; v. 281; p. 75.
Baudet, George A., New York, N. Y., assignor to The Baudet Manufacturing Company, Woonsocket, R. I. Welding and cutting torch. No. 1,361,667; Dec. 7; v. 281; p. 138.
Baudet Manufacturing Company, The. (See Baudet, George A., assignor.)
Baudisch, Hans, Vienna, Austria, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Hydraulic process of and apparatus for converting energy. No. 1,347,578; July 27; v. 276; p. 622.
Bauer, Asher R., Allentown, Pa. Propelling means for boats. No. 1,363,078; Dec. 21; v. 281; p. 513.
Bauer Brothers Company, The. (See Adelsperger, Dow L., assignor.)
Bauer, Carl E., Hammond, Ind., assignor to American Steel Foundries, Chicago, Ill. Truck side frame. No. 1,330,049; Feb. 10; v. 271; p. 163.
Bauer, Carl E., Hammond, Ind. Making draw-bar yokes. No. 1,330,575; Feb. 10; v. 271; p. 261.
Bauer, Carl E., Hammond, Ind. Draw-bar yoke. No. 1,339,940; May 11; v. 274; p. 318.
Bauer, Franz, assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Stop device. No. 1,339,052; May 4; v. 274; p. 75.
Bauer, Fred A., White Mills, Pa. Separable fastener. No. 1,330,159; Feb. 10; v. 271; p. 184.
Bauer, Henry S., Chicago, Ill. Work-support for sewing-machines. No. 1,360,357; Nov. 30; v. 280; p. 836.
Bauer, Hugo R., and H. F. Reinhold, Clifton, N. J. Take-up stop-motion. No. 1,342,272; June 1; v. 275; p. 130.
Bauer, John, Detroit, Mich. Brake. No. 1,330,833; Feb. 17; v. 271; p. 378.
Bauer, John, Detroit, Mich. Storm-shield. No. 1,354,374; Sept. 28; v. 278; p. 664.
Bauer, Louis W., and J. E. Davis, Washington, D. C., assignors of one-third to L. Wolfe, New York, N. Y. Rope and cord fastener. No. 1,338,375; Mar. 9; v. 272; p. 279.
Bauer, Martha V., Washington, D. C. Sanitary pad. No. 1,341,875; June 1; v. 275; p. 51.
Bauer, Martha V., Washington, D. C. Token. No. 1,353,709; Sept. 21; v. 278; p. 487.
Bauer, Martha V., Washington, D. C. Secretary. No. 1,364,022; Dec. 28; v. 281; p. 736.
Bauer, William E., Chicago, Ill. Wood-trimmer. No. 1,334,070; Mar. 16; v. 272; p. 471.
Bauer, William J., Lincoln, Ill. Boiler-cleaner. No. 1,331,452; Feb. 17; v. 271; p. 494.
Bauermeister, Carl E., Terre Haute, Ind. Sampling-jar. No. 1,337,034; Apr. 13; v. 273; p. 313.
Bauersfeld, Walther, assignor to Firm of Carl Zeiss, Jena, Germany. Telemeter. No. 1,347,571; July 27; v. 276; p. 620.
Bauert, William H., Roseville, New South Wales, Australia. Hat-ventilation means. No. 1,339,154; May 4; v. 274; p. 94.
Baughman, Alton L., Wolf Lake, Ind. Paving-block. No. 1,348,774; Aug. 3; v. 277; p. 124.
Baughman, Benjamin F., Columbus, Ohio. Internal-combustion engine. No. 1,343,863; June 15; v. 275; p. 559.
Baughman, David, St. Petersburg, Fla. Receptacle-closure. No. 1,356,754; Oct. 26; v. 279; p. 592.
Bauhaus, William K., Carpenteria, Calif. Safety tire-valve. No. 1,330,108; Feb. 10; v. 271; p. 174.
Baukus, Frank J., Saginaw, Mich. Roller fly-screen. No. 1,340,103; May 11; v. 274; p. 348.
Baule, Marie E. A., Lyon, France. Electric impulsion-motor. No. 1,347,002; July 20; v. 276; p. 451.
Baulig, Herman, Egg Harbor, N. J., assignor to H. T. Dewey & Sons Company, New York, N. Y. Mechanism for treating fruit juice. No. 1,336,719; Apr. 13; v. 273; p. 252.
Baulig, Herman, Egg Harbor, N. J., assignor to H. T. Dewey & Sons Company, New York, N. Y. Treating fruit juice. No. 1,336,720; Apr. 13; v. 273; p. 252.
Baum, Charles, and E. H. Talbert, Washington, D. C.; said Talbert assignor to said Baum. Telephone attachment. No. 1,362,464; Dec. 14; v. 281; p. 341.
Baum, David, Livermore Falls, Me. Glove-turning machine. No. 1,348,077; July 27; v. 276; p. 722.
Baum, Edward, Philadelphia, Pa. Ear-drum protector or ear-stopper. No. 1,344,935; June 29; v. 275; p. 897.
Baum, Erich, Nuremberg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Cleansing compound and making same. No. 1,340,315; May 18; v. 274; p. 445.
Baum, Ewald G., Natick, Mass. Bottle-cap. No. 1,357,831; Nov. 2; v. 280; p. 120.
Baum, Frederick A., St. Charles, Mo. Machine for steaming the toes of shoes. No. 1,357,023; Oct. 26; v. 279; p. 645.
Baum, Frederick H. (See Pfeil, A. P., and Baum.)
Baum, William F. (See Greco, Vito B., assignor.)
Baum, Willis M. (See Gilman, F. L., and Baum.)
Bauman, Henry G., and G. M. Westerberg, assignors of one-third to O. Anderson, Chicago, Ill. Combined flash and trouble lamp. No. 1,330,974; Feb. 17; v. 271; p. 406.
Bauman, Henry S., Nashville, Tenn. Resilient wheel. No. 1,334,128; Mar. 16; v. 272; p. 482.
Bauman, John W. and I. W., Sassamansville, Pa. Pipe-wrench. No. 1,332,157; Feb. 24; v. 271; p. 646.
Baumman, Irvin W. (See Bauman, J. W. and I. W.)
Bauman, Laura L., Eugene, Oreg. Tatting-thimble. No 1,355,298; Oct. 12; v. 279; p. 221.
Baumann, Ferdinand P., Küsnacht, Switzerland, assignor, by mesne assignments, to G. H. Rein, New York, N. Y. Dry battery. (Reissue.) No. 14,929; Aug. 17; v. 277; p. 544.
Baumann, Karl, Urmston, England, assignor to The British Westinghouse Electric and Manufacturing Company Limited. Turbine. No. 1,362,074; Dec. 14; v. 281; p. 266.
Baumann, John R., Red Wing, Minn. Segment-block. No. 1,349,552; Aug. 10; v. 277; p. 329.
Baumann, John R., Red Wing, Minn. Building-block. No. 1,356,590; Oct. 26; v. 279; p. 560.
Baumann, John R., Red Wing, Minn. Building-block. No. 1,356,591; Oct. 26; v. 279; p. 560.
Baumann, Karl, Urmston, England, assignor to The British Westinghouse Electric and Manufacturing Company, Limited. Feed-water heater. No. 1,342,841; June 8; v. 275; p. 294.
Baumann, Karl, Urmston, England, assignor to The British Westinghouse Electric and Manufacturing Company Limited. Steam-turbine. No. 1,343,956; June 22; v. 275; p. 641.
Baumann, Karl, Urmston, England, assignor to The British Westinghouse Electric and Manufacturing Company, Limited. Condenser. No. 1,347,436; July 20; v. 276; p. 537.
Baumann, Karl, Urmston, assignor to The British Westinghouse Electric & Manufacturing Company, Limited, London, England. Blade or vane for steam-turbines. No. 1,353,710; Sept. 21, v. 278; p. 487.
Baumann, Karl, Urmston, England, H. L. Guy and J. F. F. Winning, Manchester, England, assignors to The British Westinghouse and Electric Company, Limited. Blade for fluid-pressure turbines. No. 1,347,003; July 20; v. 276; p. 452.
Baumbach, Harry B. (See Cressler, A. B., Nees, and Baumbach.)

Digitized by Google

Baumgardner, Frank J., assignor of one-fourth to F. L. Phipps and one-fourth to C. R. Gibson, Cleveland, Ohio. Paper-stock. No. 1,334,513; Mar. 23; v. 272; p. 600.

Baumgartl, Leroy, Chicago, Ill. Automobile-bumper. No. 1,346,478; July 13; v. 276: p. 289.

Baumgartl, Leroy, Chicago, Ill. Manufacturing slabs or the like of cement or like material. No. 1,353,510; Sept. 21; v. 278; p. 446.

Baumgartl, Leroy, Chicago, Ill. Demountable wheel. No. 1,353,511; Sept. 21; v. 278; p. 446.

Baumgartl, Leroy, Chicago, Ill. Manufacturing slabs or the like of cement or like material. No. 1,353,512; Sept. 21; v. 278; p. 446.

Baumgartner, Arthur, assignor to Ira Co. Fabrique Suisse d'Articles en bois, Schweizerische Holzwarenfabrik, Swiss Wood Works, Soleure, Switzerland. Blotting-pad. No. 1,338,669; May 4; v. 274; p. 4.

Baumgartner, Charles B., Manchester, Iowa. Fencepost. No. 1,343,543; June 15; v. 275; p. 495.

Baumgartner, Charles B., Manchester, Iowa. Fencepost. No. 1,343,544; June 15; v. 275; p. 495.

Baumgartner, Henry H., Newark, N. J. Coin-collector. No. 1,341,534; May 25; v. 274; p. 750.

Bausano, Peter, and J. W. Petaja, Ahmeek, Mich. Wrap holder for chair-backs. No. 1,355,643; Oct. 12; v. 279, p. 287.

Bausch, Albert. (See Maguire, W., and Bausch.)

Bausch & Lomb Optical Company. (See Drescher, Theodore B., assignor.)

Bausch & Lomb Optical Company. (See Kallenbach, Oscar G. H., assignor.)

Bausch & Lomb Optical Co. (See Koehler, August, assignor.)

Bausch & Lomb Optical Company. (See Patterson, William L., assignor.)

Bausch & Lomb Optical Company. (See Poser, Max, assignor.)

Bausch and Lomb Optical Company. (See Simpson, Leon G., assignor.)

Baush Machine Tool Company. (See Calkins, Charles H., assignor.)

Baush Machine Tool Company. (See Cannell, William, assignor.)

Bausman, Alonzo L., Chicopee, assignor to National Equipment Company, Springfield, Mass. Shaking-table. No. 1,328,483; Jan. 20; v. 270; p. 399.

Bausman, Alonzo L., Chicopee, assignor to National Equipment Company, Springfield, Mass. Reducing apparatus. No. 1,329,741; Feb. 3; v. 271; p. 74.

Bausman, Alonzo L., Chicopee, assignor to National Equipment Company, Springfield, Mass. Reducing apparatus. No. 1,329,742; Feb. 3; v. 271; p. 74.

Bausman, Alonzo L., Chicopee, assignor to National Equipment Company, Springfield, Mass. Confectionery-coating machine. No. 1,330,422; Feb. 10; v. 271; p. 233.

Bausman, Alonzo L., Chicopee, assignor to National Equipment Company, Springfield, Mass. Filter-press. No. 1,331,453; Feb. 17; v. 271; p. 494.

Bausman, Alonzo L., Chicopee, assignor to National Equipment Company, Springfield, Mass. Reducing and refining apparatus. No. 1,337,583; Apr. 20; v. 273; p. 490.

Bausman, Alonzo L., Chicopee, assignor to National Equipment Company, Springfield, Mass. Feeding apparatus. No. 1,337,584; Apr. 20; v. 278; p. 491.

Bausman, Alonzo L., Chicopee, assignor to National Equipment Company, Springfield, Mass. Confectionery-coating machine. No. 1,341,253; May 25; v. 274; p. 695.

Bausman, Alonzo L., Chicopee, and G. S. Perkins, assignors to National Equipment Company, Springfield, Mass. Milling-machine. No. 1,341,252; May 25; v. 274; p. 695.

Bawden, William. (See Baker, Cloice B., assignor.)

Baxter, Arthur G., Wabana, Belle Isle, Newfoundland. Poison-bottle indicator. No. 1,352,344; Sept. 7; v. 278; p. 121.

Baxter, Charles H. (See McGinnis, W. H., and Baxter.)

Baxter, Edmund G., Kensington, London, England. Casement-window. No. 1,332,593; Mar. 2; v. 272; p. 80.

Baxter, Ernest H., Chicago, Ill. Transmission-lock. No 1,355,380; Oct. 12; v. 279; p. 237.

Baxter, Harry, Newman, Ill. Revolving grain-bundle shocker. No. 1,335,419; Mar. 30; v. 272; p. 830.

Baxter, James R. (See Hofen, Simon E., assignor.)

Baxter, Kenneth S., Michigan City, Ind., assignor to Sheet Steel Products Company. Door-latch. No. 1,362,217; Dec. 14; v. 281; p. 294.

Baxter, Reginald, London, England. Means for applying medicaments to the body. No. 1,354,014; Sept. 28; v. 278; p. 590.

Baxter, William C., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Cutting-machine. No. 1,344,975; June 29; v. 275; p. 904.

Baxter, William C., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sole-leveling machine. No. 1,351,735; Sept. 7; v. 278; p. 4.

Baxter, William C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cutting-machine. No. 1,363,221; Dec. 28; v. 281; p. 581.

Baxter, William L. (See Cass, Charles W., assignor.)

Baxter, William L., Beverly, Mass. Skid for elevating and conveying trucks. No. 1,329,357; Feb. 3; v. 271; p. 4.

Baxter, William M., assignor, by mesne assignments, to National Refrigerator Car Company, Chicago, Ill. Refrigerating and heating system. No. 1,342,403; June 1; v. 275; p. 154.

Baxter, William M., assignor to M. W. Arrowwood, Chicago, Ill. Method and means for feeding powdered fuel. No. 1,355,444; Oct. 12; v. 279; p. 249.

Baxter, William W. (See Hellmann, L. F., and Baxter.)

Baxter, Douglas, assignor of one-half to G. Henderson, Three Rivers, Quebec, Canada. Beehive. No. 1,348,925; Aug. 10; v. 277; p. 206.

Bay State Corset Company. (See La Montagne, Ivan, assignor.)

Bay State Optical Company. (See Clulee, Stephen J., assignor.)

Bay State Optical Company. (See Nerney, George E., assignor.)

Bayardi, Armand, Chicago, Ill. Bracelet. No. 1,357,139; Oct. 26; v. 279; p. 668.

Bayer, Alois, and A. Klingele, Lorain, Ohio. Flytrap. No. 1,328,114; Jan. 13; v. 270; p. 292.

Bayer, Charles H. (See Popper, I. C., and Bayer.)

Bayer, Erik C., Copenhagen, Denmark. Preparing pumice-stone for use in concrete. No. 1,354,233; Sept. 28; v. 278; p. 636.

Bayer, Lloyd F., Tulsa, Okla. Obtaining volatile liquids from gases. No. 1,351,151; Aug. 31; v. 277; p. 820.

Bayer, Matthew F., assignor to Simmons Company, Kenosha, Wis. Handling apparatus. No. 1,340,648; May 18; v. 274; p. 509.

Bayer, Matthew F., assignor to Simmons Company, Kenosha, Wis. Extensible furniture. No. 1,359,658; Nov. 23; v. 280; p. 630.

Bayles, Ernest A., and H. Higham, Helsby, England. Electrical condenser. No. 1,346,694; July 13; v. 276; p. 332.

Bayles, Lester L. (See Morris, J. W., and Bayles.)

Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Fluid-operated percussive tool. No. 1,343,610; June 15; v. 275; p. 508.

Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Drill-steel retainer. No. 1,355,806; Oct. 19; v. 279; p. 359.

Bayles, Lewis C., and F. M. Slater, Easton, Pa., assignors to Ingersoll-Rand Company, Jersey City, N. J. Roller-bearing construction. No. 1,346,163; July 13; v. 276; p. 226.

Bayles, Robert A., Stockton, Calif. Excavating-machine. No. 1,335,932; Apr. 6; v. 278; p. 43.

Bayles, Robert A., Stockton, Calif. Ditch-digger. No. 1,346,075; July 6; v. 276; p. 148.

Bayless, Isabel L., Washington, D. C. Cooking device. No. 1,345,824; July 6; v. 276; p. 97.

Bayley, Francis L. (See McCaul, B. V., V. J., and Bayley.)

Bayley, Percy F. W. (See Jones, E. F., and Bayley.)

Baymiller, Joel F., Buhl, Idaho. Revolving housekeeping-cabinet. No. 1,352,496; Sept. 14; v. 278; p. 186.

Baynard, William H., Braintree, Mass., assignor to Beckwith Box Toe Company, Dover, N. H. Sewing-machine attachment. No. 1,332,536; Mar. 2; v. 272; p. 70.

Baynard, William H., Braintree, and F. W. Eager, Winthrop, assignors to H. H. Beckwith, Brookline, Mass. Shoe-heater. No. 1,358,965; Nov. 16; v. 280; p. 398.

Bayne, George G., Bushnell, Ill. Auxiliary radius-truss for automobiles. No. 1,350,771; Aug. 24; v. 277; p. 686.

Bayne Manufacturing Company. (See Knutson, Alfred W., assignor.)

Bayrer, Louis G., Hartford, Conn. Milking-machine. No. 1,329,358; Feb. 3; v. 271; p. 4.

Bayrer, Louis G., Hartford, Conn. Die-sinking machine. No. 1,354,942; Oct. 5; v. 279; p. 98.

Bays, Albert, Benton, Ill. Draft attachment for wheeled vehicles. No. 1,335,639; Mar. 30; v. 272; p. 872.

Bazeley, Arthur J., assignor to National Malleable Castings Company, Cleveland, Ohio. Pocket for engine-couplings. No. 1,358,696; Nov. 16; v. 280; p. 398.

Bazzeghin, Carlo M., Orange, Conn. Union overgarment. No. 1,334,129; Mar. 16; v. 272; p. 482.

Beach, Benson C., and J. H. Beeby, Ottawa, Ontario, Canada. Combined heating, cooking, and baking stove. No. 1,349,652; Aug. 17; v. 277; p. 422.

Beach, Charles P., Littleton, N. H. Rim-tool. No. 1,331,859; Feb. 24; v. 271; p. 592.

Beach, Charles P., Littleton, N. H. Apparatus for rendering worn bushings usable. No. 1,347,490; July 27; v. 276; p. 304.

Beach, Chester H., assignor to Frederick J. Osius, Racine, Wis. Support for sewing-machine motors. No. 1,353,211; Sept. 21; v. 278; p. 388.

Beach, David S., Bridgeport, Conn. Resilient wheel. No. 1,343,898; June 22; v. 275; p. 630.

Beach, Frederick H., Batavia, Ill. Making wooden wheel-hubs. No. 1,335,039; Mar. 30; v. 272; p. 760.

Beach, Harry L., Coshocton, Ohio. Knocked-down wheel toy. No. 1,356,333; Oct. 19; v. 279; p. 464.

Digitized by Google

Alphabctical list of patentees—Continued.

Beach, Howard L. (See Clark, C. H., and Beach.)
Beach, John, assignor of one-half to P. F. Golden, Springfield, Ohio. Pipe and hose coupling. No. 1,337,427; Apr. 20; v. 273; p. 461.
Beach, Milo D., Litchfield, Conn. Wheel-indicator. No. 1,328,978; Jan. 27; v. 270; p. 521.
Bead Chain Manufacturing Company, The. (See Goodridge, Gilbert W., assignor.)
Beadle, Bailey O., Atlantic, Iowa. Fastening. No. 1,361,132; Dec. 7; v. 281; p. 30.
Beadle, Blanche E., Springfield, Mass. Hair-support. No. 1,347,987; July 27; v. 276; p. 703.
Beadle, Blanche E., assignor of one-half to R. A. Beadle, Springfield, Mass. Hair-retaining device. No. 1,363,033; Dec. 21; v. 281; p. 504.
Beadle, George W., New Rochelle, N. Y., assignor, by mesne assignments, to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Shipping-receptacle. No. 1,362,282; Dec. 14; v. 281; p. 307.
Beadle, George W., New Rochelle, N. Y., assignor, by mesne assignments, to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Variable sound-conveyer or horn for talking-machines or the like. No. 1,362,919; Dec. 21; v. 281; p. 482.
Beadle, Russell A. (See Beadle, Blanche E., assignor.)
Beakes, William E., New Orleans, La., assignor to United Fruit Company, Boston, Mass. Apparatus for wireless telegraphy and telephony. No. 1,362,383; Dec. 14; v. 281; p. 326.
Beal, Herman L., Brookline, Mass. Rubber heel. No. 1,364,023; Dec. 28; v. 281; p. 736.
Beal, Ralph R., Palo Alto, assignor to Federal Telegraph Company, San Francisco, Calif. Radiotelegraphy. No. 1,350,695; Aug. 24; v. 277; p. 671.
Beale, Bessie, Broadstone, England. Sleeve-grip. No. 1,336,339; Apr. 6; v. 273; p. 120.
Beales, Isaac B., Hasbrouck Heights, N. J. Lamp-shade. No. 1,335,640; Mar. 30; v. 272; p. 872.
Beall Brothers. (See Wightman, Charles K., assignor.)
Beall, Fletcher W., Jr., McCalla, Ala. Spark-plug. No. 1,347,437; July 20; v. 276; p. 537.
Beall, Frank F., assignor to Packard Motor Car Company, Detroit, Mich. Mechanism for forming gears. No. 1,332,968; Mar. 9; v. 272; p. 203.
Beall, Frank F., assignor to Packard Motor Car Company, Detroit, Mich. Gear. No. 1,360,358; Nov. 30; v. 280; p. 836.
Beall, Walter W., Philadelphia, Pa. Strainer. No. 1,345,342; July 6; v. 276; p. 4.
Bealor, Budd G., Aspinwall, Pa. Glass manufacture. No. 1,331,796; Feb. 24; v. 271; p. 580.
Beam, Warren B., Mancelona, Mich. Mop-head. No. 1,344,198; June 22; v. 275; p. 688.
Beaman, Albert W., Pittsboro, Ind. Pig-brooder. No. 1,328,810; Jan. 27; v. 270; p. 488.
Beamer, Richard F., San Francisco, Calif. Wooden golf-club. No. 1,359,220; Nov. 16; v. 280; p. 498.
Beamer, Samuel C., Marshalltown, Iowa. Egg-tray. No. 1,344,019; June 22; v. 275; p. 654.
Beamish, Robert S., and H. G. Schaefer, Minneapolis, Minn. Anto-trailer. No. 1,331,410; Feb. 17; v. 271; p. 486.
Beamless Car Truck Self-Adjusting Brake Company. (See Hartill-Law, William, assignor.)
Bean, Albert M., Colville, Wash. Harness-hanger. No. 1,328,312; Jan. 20; v. 270; p. 367.
Bean, Albert M., Colville, Wash. Portable music-sheet container and turner. No. 1,344,374; June 22; v. 275; p. 723.
Bean, Andrew J., Ottsville, Pa. Pad. No. 1,337,879; Apr. 20; v. 273; p. 547.
Bean, Charles V., Casey, Ill. Internal-combustion engine. No. 1,329,947; Feb. 3; v. 271; p. 113.
Bean, Guy M. (See Anthony, J. T., and Bean.)
Bean, Louis A., Denver, Colo. Direction-indicator. No. 1,340,363; May 18; v. 274; p. 454.
Bean, Mabury L., *et al.* (See Moody, Thomas J., assignor.)
Bean, Orester U., New York, N. Y. Producing gas. No. 1,337,537; Apr. 20; v. 273; p. 482.
Bean, Roscoe, Berea, Ohio. Valve-refacing tool. No. 1,359,316; Nov. 16; v. 280; p. 517.
Bean, Roscoe, assignor to Liberty Metal Products Company, Berea, Ohio. Valve-refacer. No. 1,330,778; Feb. 17; v. 271; p. 367.
Bean Spray Pump Co. (See Crummey, Frederick E., assignor.)
Beanblossom, Albert C., Des Moines, Iowa. Power attachment for automobiles. No. 1,352,497; Sept. 14; v. 278; p. 186.
Beans, Jacob B., Philadelphia, Pa. Display apparatus. No. 1,359,659; Nov. 23; v. 280; p. 630.
Bear, Claude A., assignor of two-ninths to G. P. Fox, Albany, two-ninths to A. McGary, New York, N. Y., and two-ninths to G. R. Bergen, Chicago, Ill. Door-fastener. No. 1,351,736; Sept. 7; v. 278; p. 4.
Bear, John F., assignor to The Ohio Suspender Company, Mansfield, Ohio. Suspender-link. No. 1,338,850; May 4; v. 274; p. 37.
Bear, John F., assignor to The Ohio Suspender Company, Mansfield, Ohio. Suspender-link. No. 1,341,033; May 25; v. 274; p. 653.
Beard, James R. (See Hunter, P. V., and Beard.)
Beard, James R., Benton, England. System for supplying electric power for lighting purposes from low-frequency power-circuits. No. 1,363,707; Dec. 28; v. 281; p. 675.
Beard, Roy, Bowling Green, Ky. Drilling-machine. No. 1,354,015; Sept. 28; v. 278; p. 591.
Bearden, Fred E., Chesnee, S. C. Heddle-harness-spacer machine. No. 1,339,313; May 4; v. 274; p. 122.
Beardmore, William, & Company. (See Chorlton, Alan E. L., assignor.)
Beardslee Chandelier Manufacturing Company. (See Harris, Herbert A., assignor.)
Beardsley, Charles S., assignor to The United Electric Company, Canton, Ohio. Adjustable caster. No. 1,339,805; May 11; v. 274; p. 292.
Beardsley, Edson L., Columbus, Ohio. Valve-lifter. No. 1,327,015; Jan. 6; v. 270; p. 26.
Beardsley, Edson L., assignor to The Loomis Beardsley Mfg. Company, Columbus, Ohio. Valve-grinding tool. No. 1,347,243; July 20; v. 276; p. 498.
Beardsley, Edwin W., Cheshire, assignor to American Brass Company, Waterbury, Conn. Apparatus for handling containers of liquids. No. 1,354,716; Oct. 5; v. 279; p. 54.
Beardsley, Edwin W., Cheshire, assignor to The American Brass Company, Waterbury, Conn. Non-oxidizing annealing-furnace and mechanism for handling work therein. No. 1,362,555; Dec. 14; v. 281; p. 360.
Beardsley, Elmer O., and W. F. Piper, Stockton, Calif. Machine for making molds. No. 1,335,641; Mar. 30; v. 272; p. 872.
Beardsley, Elmer O., and W. F. Piper, Chicago, Ill. Molding-machine. No. 1,335,642; Mar. 30; v. 272; p. 872.
Beardsley, Elmer O., Chicago, and W. F. Piper, Oak Park, Ill. Molding-machine. No. 1,337,585; Apr. 20; v. 273; p. 491.
Beardsley, Elmer O., and W. F. Piper, Chicago, Ill. Machine for making molds for founding. No. 1,351,227; Aug. 31; v. 277; p. 836.
Bearens, Claude, New York, N. Y. Resilient drive means. No. 1,360,867; Nov. 30; v. 280; p. 937.
Bearicks, Arthur, Washington, D. C. Indicator. No. 1,362,465; Dec. 14; v. 281; p. 341.
Bears, Daniel S., assignor to Reliance Manufacturing Co., Providence, R. I. Belt-buckle. No. 1,352,937; Sept. 14; v. 278; p. 274.
Bearse, Frank P., *et al.* (See Soule, Charles E., assignor.)
Beasley, Harry K., assignor to Western Union Telegraph Company, New York, N. Y. Differentially-wound electromagnet. No. 1,355,085; Oct. 5; v. 279; p. 126.
Beasley, John H. (See Dunn, W. W., and Beasley.)
Beasley, William N., *et al.* (See Smith, William H., assignor.)
Beaton, A. J., Manufacturing Company, The. (See Beaton, Allan J., assignor.)
Beaton, Allan J., assignor to The A. J. Beaton Manufacturing Company, New Britain, Conn. Air-valve device. No. 1,341,101; May 25; v. 274; p. 666.
Beaton, Allan J., assignor to The A. J. Beaton Manufacturing Company, New Britain, Conn. Floor or ceiling plate. No. 1,344,219; June 22; v. 275; p. 692.
Beaton, John A., Wharton, N. J. Gas-burner. No. 1,332,791; Mar. 2; v. 272; p. 118.
Beattey, Earle J. R., assignor to Universal Optical Corporation, Providence, R. I. Ophthalmic-lens frame. No. 1,344,474; June 22; v. 275; p. 743.
Beattie, Charles W., Parsonsfield, Me., assignor of one-half to J. C. Nicholson, Peabody, Mass. Discharge-valve for flush-tanks. No. 1,353,559; Sept. 21; v. 278; p. 456.
Beattie, Earl S., Kalamazoo, Mich. Furnace. No. 1,363,555; Dec. 28; v. 281; p. 646.
Beattie Manufacturing Company, The. (See Beattie, Walter J., assignor.)
Beattie, Walter J., assignor to The Beattie Manufacturing Co., Cohoes, N. Y. Folding-machine. No. 1,341,409; May 25; v. 274; p. 725.
Beattie, Walter J., assignor to The Beattie Manufacturing Company, Cohoes, N. Y. Oil-guard for sewing-machines. No. 1,344,787; June 29; v. 275; p. 870.
Beatty, Clarence J., Racine, Wis. Collapsible tube. No. 1,334,344; Mar. 23; v. 272; p. 568.
Beatty, Edward, Brooklyn, N. Y. Clothes-washer. No. 1,338,277; Apr. 27; v. 273; p. 692.
Beatty, Harry W., Oilfields, Calif. Casing-cutter. No. 1,328,940; Jan. 27; v. 270; p. 514.
Beatty, Roland A., New York, N. Y. Magazine-hammer. No. 1,331,228; Feb. 17; v. 271; p. 452.
Beatty, Roland A., New York, N. Y. Clothes-sprinkler. No. 1,350,133; Aug. 17; v. 277; p. 514.
Beatty, William F., Cincinnati, Ohio. Cabinet for ice-cream and the like. No. 1,358,503; Nov. 9; v. 280; p. 314.
Beatty, William R., Hammond, Ind. Floor-crane. No. 1,333,200; Mar. 9; v. 272; p. 246.
Beatty, William R., Hammond, Ind. Combination punch, shear, and coping machine. No. 1,333,201; Mar. 9; v. 272; p. 246.
Beaty, Wilbur L., South Butte, Mont. Reel-seat. No. 1,350,635; Aug. 24; v. 277; p. 659.
Beaty, Wilbur L., South Butte, Mont. Reel-seat for fishing rods. No. 1,350,636; Aug. 24; v. 277; p. 660.

Digitized by Google

Beaty, Wilbur L., South Butte, Mont. Reel-seat for fishing-rods. No. 1,350,637; Aug. 24; v. 277; p. 660.
Beaty, William S., Milton, Ontario, Canada. Swing-pole track-hinge for litter-carriers. No. 1,340,208; May 18; v. 274; p. 425.
Beau, Mathew, Port Colborne, Ontario, Canada. Sleigh. No. 1,345,825; July 6; v. 276; p. 97.
Beaubien, Robert E., Chicago, Ill. Hand-drill. No. 1,362,582; Dec. 14; v. 281; p. 364.
Beaudet, Edmond P., assignor to A. W. Grant, Montreal, Quebec, Canada. Mop-frame. No. 1,344,936; June 29; v. 275; p. 897.
Beaudet, George J., Providence, R. I. Combined stove-lid and pot-lifter. No. 1,360,359; Nov. 30; v. 280; p. 836.
Beaudet, Leon H., Montreal, Quebec, Canada. Electric water-heater. No. 1,355,644; Oct. 12; v. 279; p. 287.
Beaudette, Telesphore. (See Gendreau, Auguste, assignor.)
Beaudin, Napoleon, Montreal, Quebec, Canada. Auxiliary propelling attachment for aeroplanes. No. 1,362,466; Dec. 14; v. 281; p. 342.
Beaudreau, Edward H., assignor to American Tool Company, Meriden, Conn. Automobile non-skid chain. No. 1,327,369; Jan. 6; v. 270; p. 91.
Beaudry, Dieudonne A., Gilbertville, Mass. Elevator. No. 1,335,719; Apr. 6; v. 273; p. 8.
Beaufrere, Charles F., Central Islip, N. Y. Skimming-spoon. No. 1,337,814; Apr. 20; v. 273; p. 534.
Beaulieu, Eugene A., Graceville, Minn. Folding emergency-tire. No. 1,338,807; May 4; v. 274; p. 29.
Beaumont, R. H., Company. (See Beaumont, R. H., assignor.)
Beaumont, R. H., Company. (See Webster, Thomas F., assignor.)
Beaumont, Robert H., assignor to R. H. Beaumont Company, Philadelphia, Pa. Sheave-carrier. No. 1,348,691; Aug. 3; v. 277; p. 109.
Beaumont, William W., Westminster, London, England. Manufacture of tires for the wheels of road-vehicles. No. 1,348,200; Aug. 3; v. 277; p. 13.
Beaupré, Enid, Albany, N. Y. Game apparatus. No. 1,346,738; July 13; v. 276; p. 340.
Beauregard, Charles G. (See Bissell, J. H., and Beauregard.)
Beauregard, Napoleon F. X., Chicago, Ill. Pulverized-fuel gas-generator. No. 1,351,460; Aug. 31; v. 277; p. 883.
Beaushene, Peter, and E. Lysen, Seattle, Wash. Amusement device. No. 1,331,411; Feb. 17; v. 271; p. 486.
Beauvais, Charles F., Camberwell, London, England. Friction driving mechanism for motor road and other vehicles. No. 1,359,950; Nov. 23; v. 280; p. 689.
Beaven, Leslie W., Chicago, Ill. Hydraulic dredging apparatus. No. 1,327,651; Jan. 13; v. 270; p. 205.
Beaven, Leslie W., Chicago, Ill. Power-generating mechanism. No. 1,336,188; Apr. 6; v. 273; p. 92.
Beaver, Carl P., Ducktown, Tenn. Safety mechanism for elevators. No. 1,348,201; Aug. 3; v. 277; p. 13.
Beaver Company, The. (See Robinson, Charles G., assignor.)
Beaver Company, The. (See Sidwell, Benjamin W., assignor.)
Beaver Machine and Tool Co. (See Belmont, Ralph A., assignor.)
Beaver Machine and Tool Co. (See Pape, Herman G., assignor.)
Beaver, Willie, Rolette, N. D. Plow. No. 1,360,491; Nov. 30; v. 280; p. 863.
Beccari, Giuseppe, Florence, Italy. Apparatus for working garbage and refuse of towns. No. 1,329,105; Jan. 27; v. 270; p. 545
Bechler, André, Moutier, Switzerland. Gage for screw-threads. No. 1,336,189; Apr. 6; v. 273; p. 92.
Bechman, Henry F., assignor to Duplex Printing Press Company, Battle Creek, Mich. Plate-clamping device for printing-presses. No. 1,336,721; Apr. 13; v. 273; p. 253.
Bechman, Henry F., assignor to Duplex Printing Press Company, Battle Creek, Mich. Cylinder-driving mechanism for printing-presses. No. 1,359,862; Nov. 23; v. 280; p. 671.
Bechman, Henry F., assignor to Duplex Printing Press Company, Battle Creek, Mich. Feeding-web to printing-presses. No. 1,359,863; Nov. 23; v. 280; p. 671.
Bechoff, Ferdinand, New York, N. Y. Electrical circuit-controller. No. 1,328,072; Jan. 13; v. 270; p. 284.
Bechoff, Ferdinand, New York, N. Y. Indicator for controlling switches. No. 1,328,073; Jan. 13; v. 270; p. 285.
Bechoff, Ferdinand, and M. M. Samuels, New York, N. Y. Air-break switch. No. 1,334,645; Mar. 23; v. 272; p. 624.
Bechtold, J. Z. (See Fisher, Joseph, assignor.)
Bechtold, Joseph H., Sioux Falls, S. D. Cuff-button. No. 1,336,880; Apr. 13; v. 273; p. 283.
Bechtold, Reuben E., assignor to S. F. Bowser & Co., Fort Wayne, Ind. Meter for continuous pumps. No. 1,349,256; Aug. 10; v. 277; p. 272.
Beck, Allen B., Cleveland, Ohio. Device for preventing offset in printing-presses. No. 1,336,995; Apr. 13; v. 273; p. 305.
Beck, Charles, Company. (See Roessling, Otto H., assignor.)
Beck, Charles E., Baltimore, Md. Loose-leaf binder. No. 1,341,456; May 25; v. 274; p. 735.
Beck, Christoph. (See Bosch, Mittasch, and Beck.)
Beck, Edward H. (See Tod, G. H., and Beck.)
Beck, Ellis L., Manor, Pa. Illuminating attachment for telescopes. No. 1,343,074; June 8; v. 275; p. 340.
Beck, Frédéric, Neuilly-sur-Seine, France. Machine for sawing metals operating automatically. No. 1,354,874; Oct. 5; v. 279; p. 85.
Beck, Friedrich C., Seuzach, near Winterthur, Switzerland. Artificial hand. No. 1,347,004; July 20; v. 276; p. 452.
Beck, George E. (See Kirkpatrick, T. E., and Beck.)
Beck, John L., Newark, N. J. Fishing rod and reel. No. 1,327,751; Jan. 13; v. 270; p. 224.
Beck, Norman F., Kokomo, Ind. Shock-absorber. No. 1,343,027; June 8; v. 275; p. 331.
Beck, Oscar F., Lawndale, J. W. Speers and R. R. Jones, assignors to The Firestone Tire and Rubber Company, Akron, Ohio. Vulcanizing apparatus. No. 1,350,696; Aug. 24; v. 277; p. 671.
Beck, Peter, Harvey, Ill. Washing device. No. 1,329,694; Feb. 3; v. 271; p. 65.
Beck, Rudolph H. (See Leonard, C. S., and Beck.)
Beck, Rudolph H. and R. J., Philadelphia, Pa. Toric-lens-grinding machine. No. 1,343,492; June 15; v. 275; p. 484.
Beck, Rudolph J. (See Beck, Rodolph H. and R. J.)
Beck, Wesley J., and J. A. Aupperle, assignors to The American Rolling Mill Company, Middletown, Ohio. Treating iron-silicon alloy. No. 1,358,408; Nov. 9; v. 280; p. 296.
Beck, William E., Birmingham, England. Stand for watches. No. 1,340,859; May 18; v. 274; p. 548.
Beck, Williliam O., Ridgefield N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Casing and support for electrical apparatus. No. 1,343,880; June 15; v. 275; p. 562.
Becker, Albert, Oldham, S. D. Bracket. No. 1,341,535; May 25; v. 274; p. 738.
Becker, Benjamin, St. Louis, Mo. Door-opener. No. 1,328,979; Jan. 27; v. 270; p. 522.
Becker, Earl, Ansonia, Conn. Corn-husker. No. 1,355,645; Oct. 12; v. 279; p. 288.
Becker, Edmund, administrator. (See Becker, Joseph.)
Becker, Edmund, Washington, D. C. Method of and apparatus for releasing projectiles from moving carriers. No. 1,332,022; Feb. 24; v. 271; p. 622.
Becker, Ferdinand A., San Francisco, Calif. Mute for cornets or the like. No. 1,341,351; May 25; v. 274; p. 714.
Becker, Harry W. (See Basler, George, assignor.)
Becker, Herbert W. (See Miedreich, Henry A., assignor.)
Becker, Irvine N., Kaufman, Tex. Block or follower for baling-presses. No. 1,352,345; Sept. 7; v. 278; p. 121.
Becker, Johannes P., Berkeley, Calif. Direction-indicator. No. 1,341,352; May 25; v. 274; p. 714.
Becker, John, Brooklyn, N. Y. Automatic wire-blank-cutting apparatus. No. 1,336,605; Apr. 13; v. 273; p. 230.
Becker, John, Malvern, Ohio. Pipe-turner. No. 1,343,300; June 15; v. 275; p. 447.
Becker, John, assignor to Becker Milling Machine Company, Hyde Park, Mass. Reversing mechanism. No. 1,363,556; Dec. 28; v. 281; p. 646.
Becker, John F. (See Becker, William J. and J. F.)
Becker, John H., Nutley, N. J. Making spark-plugs. No. 1,331,091; Feb. 17; v. 271; p. 428.
Becker, John H., Philadelphia, Pa., and W. S. Bellows, Worcester, Mass. Spark-plug. No. 1,334,212; Mar. 16; v. 272; p. 497.
Becker, Joseph, deceased, Washington, D. C.; E. Becker, administrator. Copying or enlarging camera. No. 1,342,735; June 8; v. 275; p. 272.
Becker, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Tar-extractor apparatus and method. No. 1,337,984; Apr. 20; v. 273; p. 567.
Becker, Joseph, Washington, D. C., assignor to Eastman Kodak Company, Rochester, N. Y. Copying and enlarging camera. No. 1,339,090; May 4; v. 274; p. 82.
Becker, Joseph, Washington, D. C., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic camera. No. 1,343,888; June 15; v. 275; p. 564.
Becker, Joseph, Washington, D. C., assignor to Eastman Kodak Company, Rochester, N. Y. Copying or enlarging camera. No. 1,343,889; June 15; v. 275; p. 564.
Becker Milling Machine Company. (See Becker, John, assignor.)
Becker, Robert A., assignor of one-half to C. Tremain, Poughkeepsie, N. Y. Connector. No. 1,328,612; Jan. 20; v. 270; p. 423.
Becker, Robert A., assignor to C. Tremain, Poughkeepsie, N. Y. Connector. No. 1,331,179; Feb. 17; v. 271; p. 443.
Becker, Robert A., assignor to C. Tremain, Poughkeepsie, N. Y. T, Y, and L connector. No. 1,345,982; July 6; v. 276; p. 130.
Becker, Rudolph, Roselle Park, N. J., assignor to The Singer Manufacturing Company. Thread-controlling mechanism for sewing-machines. No. 1,349,115; Aug. 10; v. 277; p. 243.

Digitized by Google

Becker, Rudolph, assignor to The Singer Manufacturing Company, Roselle Park, N. J. Work-holder. No. 1,350,290; Aug. 24; v. 277; p. 591.

Becker, Valentine G., St. Paul, Minn., assignor to C. A. Allen, Jr., La Grange, Ill. Rumble-mill. No. 1,331,739; Feb. 24; v. 271; p. 569.

Becker, William E., Schenectady, N. Y. Rail-joint. No. 1,332,792; Mar. 2; v. 272; p. 118.

Becker, William J., Detroit, and J. F. Becker, Laurium, Mich. Lock. No. 1,364,024; Dec. 28; v. 281; p. 736.

Beckert, Frederick W., Jr., administrator. (See Beckert, Frederick W.)

Beckert, Frederick W., deceased; F. W. Beckert, Jr., administrator, New Haven, Conn., assignor to The Greist Manufacturing Company. Sewing-machine hemmer. No. 1,334,589; Mar. 23; v. 272; p. 614.

Becket, Frederick M. (See Mardick, J. R., and Becket.)

Becket, Frederick M., assignor to Electro Metallurgical Company, Niagara Falls, N. Y. Alloy. No. 1,333,151; Mar. 9; v. 272; p. 237.

Beckett, John R., Somerville, Mass. Universal angle-fixture. No. 1,327,370; Jan. 6; v. 270; p. 91.

Beckett, John R., Somerville, Mass. Angle-plate. No. 1,363,222; Dec. 28; v. 281; p. 581.

Beckett, William S., Norwich, Ontario, Canada. Milk-cooler. No. 1,357,938; Nov. 9; v. 280; p. 201.

Beckham, Dewitt T., Geneva, Tex. Hardening copper. No. 1,331,479; Feb. 24; v. 271; p. 519.

Becklin, Oscar. (See Lagreid, J. H., and Becklin.)

Becklund, John A., Centralia, Wash. Steam turbine-engine. No. 1,346,292; July 13; v. 276; p. 253.

Beckman, Bernard T., Lowell, Ind., and H. J. Beckman, Waukegan, Ill. Chair. No. 1,344,255; June 22; v. 275; p. 699.

Beckman, Edward M., Chesterton, Ind. Household sifter. No. 1,345,058; June 29; v. 275; p. 920.

Beckman, Henry J. (See Beckman, B. T. and H. J.)

Beckman, William, Sealy, Tex. Oil-burner. No. 1,350,917; Aug. 24; v. 277; p. 713.

Beckmann, Carl, assignor to E. D. Anderson, Inc., New York, N. Y. Means for opening receptacles or cartons. No. 1,351,461; Aug. 31; v. 277; p. 883.

Beckner, Noah J., Yakima, Wash. Lawn-mower. No. 1,344,852; June 29; v. 275; p. 882.

Beckner, Noah J., Seattle, Wash. Lacing-hook. No. 1,359,018; Nov. 16; v. 280; p. 461.

Beckton, Dickinson & Co. (See Schwidetzky, Oscar O. R., assignor.)

Beckwith Box Toe Company. (See Baynard, William H., assignor.)

Beckwith, Charles E., deceased, Peoria, Ill.; M. L. Beckwith, administratrix. Automatic signaling device for trains. No. 1,349,708; Aug. 17; v. 277; p. 483.

Beckwith, Charles E., deceased, Peoria, Ill.; M. L. Beckwith, administratrix. Signaling mechanism for trains. No. 1,349,709; Aug. 17; v. 277; p. 483.

Beckwith Company, The. (See Hawes, George W., assignor.)

Beckwith, Edward P., Garrison, N. Y. Stationery appliance. No. 1,339,155; May 4; v. 274; p. 94.

Beckwith, George C. (See McGeouch, W. P., and Beckwith.)

Beckwick, Harry H. (See Baynard, W. H., and Eager, assignors.)

Beckwith, Harry H. (See Swett, Charles E., assignor.)

Beckwith, Mame L., administratrix. (See Beckwith, Charles E.)

Beckwith, Walter C., Fostoria, Ohio. Device for raising sunken vessels. No. 1,331,610; Feb. 24; v. 271; p. 544.

Beckwith, Walter C., Fostoria, Ohio. Expansion-bolt. No. 1,342,201; June 1; v. 275; p. 116.

Beckwith, Walter C., Fostoria, Ohio. Device for raising sunken vessels. No. 1,353,623; Sept. 21; v. 278; p. 469.

Beckwith, William C., Urbana, Ill. Phonograph-resonator. No. 1,328,412; Jan. 20; v. 270; p. 385.

Beckworth, Otto Q. (See Hobson, Oliver J., assignor.)

Becraft, Frank W., and A. L. Genter, Salt Lake City, Utah, assignors to United Filters Corporation, New York, N. Y. Sulfur-retort. No. 1,332,537; Mar. 2; v. 272; p. 70.

Becvar, John O., Chicago, Ill. Fishhook. No. 1,336,987; Apr. 13; v. 273; p. 303.

Bedard, Joseph, Columbus, Ohio. Protector for windshields. No. 1,345,826; July 6; v. 276; p. 98.

Bedard, Philias M., Springfield, Mass. Tool-post. No. 1,347,988; July 27; v. 276; p. 703.

Beddall, Francis B. (See Peters, Walter R., assignor.)

Beddingfield, John A., assignor of one-half to R. D. Feagin, Macon, Ga. Automobile-tire rim. No. 1,345,659; July 6; v. 276; p. 65.

Bedell, Charles H., Groton, Conn., assignor to Electric Boat Company, New York, N. Y. Periscope. No. 1,361,358; Dec. 7; v. 281; p. 76.

Bedell, Spencer B., Buffalo, N. Y. Window-cleaner. No. 1,355,646; Oct. 12; v. 279; p. 288.

Bedi, John, Lorain, Ohio. Caster. No. 1,333,598; Mar. 16; v. 272; p. 382.

Bedinger, Singleton B., Terrell, Tex. Price-tag. No. 1,337,586; Apr. 20; v. 273; p. 491.

Beebe, Byron L., Wellington, Kans. Application of power. No. 1,348,202; Aug. 3; v. 277; p. 13.

Beebe, Jane, Los Angeles, Calif. Sink-apron. No. 1,355,086; Oct. 5; v. 279; p. 127.

Beebe, Mary F., Carthage, Ill. Anti-vermin perch. No. 1,347,930; July 27; v. 276; p. 692.

Beebe, Norman H. (See Duvall, G. W., and Beebe.)

Beebe, Norman H. (See Duvall, G. W., Beebe, and Smith.)

Beebee, Lewis, and F. Bowers, assignors, by mesne assignments, to Diamond Power Specialty Company, Detroit, Mich. Boiler-cleaner. No. 1,343,654; June 15; v. 275; p. 517.

Beeby, Alfred R. (See Milner, H. L., and Beeby.)

Beeby, John H. (See Beach, B. C., and Beeby.)

Beecher, Edward, St. Louis, Mo., assignor to McQuay-Norris Manufacturing Company. Piston-ring. No. 1,348,146; Aug. 3; v. 277; p. 3.

Beecher, Milton F. (See Purdy, R. C., and Beecher.)

Beede, Herbert G., Pawtucket, R. I. Work-holder for metal-working machines. No. 1,327,799; Jan. 13; v. 270; p. 233.

Beede, Herbert G., Pawtucket, R. I. Milling-machine. No. 1,341,034; May 25; v. 274; p. 653.

Beede, Neal M., assignor to A. R. Brewster, Boston, Mass. Glass-washing apparatus. No. 1,328,360; Jan. 20; v. 270; p. 376.

Beehler, William H., Baltimore, Md. Detachable handle construction for parasols, umbrellas, and the like. No. 1,342,320; June 1; v. 275; p. 138.

Beeman Garden Tractor Company. (See Phelps, Spencer H., assignor.)

Beene, John L., Centrahoma, Okla., assignor of one-half to S. A. Maxwell, Coalgate, Okla. Draft-equalizer. No. 1,354,796; Oct. 5; v. 279; p. 70.

Beer, Guido, *et al.*, executors. (See Salvati, Michele N.)

Beer, Samson, Sacramento, Calif. Power device. No. 1,356,423; Oct. 19; v. 279; p. 481.

Beers, Edward C., Rochester, assignor to Phillips & Clark Stove Co., Inc., Geneva, N. Y. Convertible gas-flue for combination gas and coal ranges. No. 1,337,112; Apr. 13; v. 273; p. 327.

Beers, Edward C., Rochester, N. Y. Convertible combination coal and gas range. No. 1,359,864; Nov. 23; v. 280; p. 671.

Beers, Herbert P., and L. S. Rysdon, Chicago, Ill. Collapsible container. No. 1,335,643; Mar. 30; v. 272; p. 872.

Beese, Frank F., Chicago, Ill. Water-gage safety-valve. No. 1,339,383; May 11; v. 274; p. 211.

Beesley, Frank M. (See Lockhart and Ord, assignors.)

Beesley, Harvey A. (See Piazza, Lorenzo, assignor.)

Beeson, Byron P., assignor of one-half to T. W. Mace, Sapulpa, Okla. Bookkeeper's work-table. No. 1,349,710; Aug. 17; v. 277; p. 434.

Beeson, George B. (See Smith, Joseph D., assignor.)

Beetem, Frank G., Washington, D. C. Binding-post. No. 1,346,525; July 13; v. 276; p. 298.

Begas, Carl L., Brooklyn, N. Y. Electrical testing device. No. 1,351,988; Sept. 7; v. 278; p. 55.

Begg, Jonathan, Oakland, Calif. Salvage-boat. No. 1,337,035; Apr. 13; v. 273; p. 313.

Begley, William J., Arverne, N. Y. Tail-light and traffic-signaling device for automobiles. No. 1,336,772; Apr. 13; v. 273; p. 262.

Behan, Charles D., Stigler, Okla. Well-bucket. No. 1,336,881; Apr. 13; v. 273; p. 283.

Behan, Charles D., Stigler, Okla. Well-bucket. No. 1,342,414; June 8; v. 275; p. 209.

Behee, Joseph H., Leavenworth, Kans. Scroll-cutting machine. No. 1,337,428; Apr. 20; v. 273; p. 461.

Behr, Ernst, Saratoga Springs, N. Y. Leaf-turning device. No. 1,353,015; Sept. 14; v. 278; p. 289.

Behr, Hans C., New York, N. Y. Process of and apparatus for separating liquids from solids. No. 1,336,722; Apr. 13; v. 273; p. 753.

Behr, Herman, New York, N. Y. Abrasive-paper-manufacturing machine. No. 1,357,943; Nov. 9; v. 280; p. 203.

Behr, Herman, New York, N. Y. Making sandpaper and other abrasive sheet material. No. 1,357,944; Nov. 9; v. 280; p. 203.

Behr, Julius, Feuerbach-Stuttgart, Germany. Radiator. No. 1,351,462; Aug. 31; v. 277; p. 883.

Behrend, Ernst R. (See Nill, Conrad J., assignor.)

Behrendt, Emil F., Foley, Minn. Window-sash stop and fastener. No. 1,333,599; Mar. 16; v. 272; p. 382.

Behrens, Albert G., Camden, N. J. Crane. No. 1,333,699; Mar. 16; v. 272; p. 401.

Behrens, Albert G., and S. H. Longacre, Camden, N. J. Loading-skid for trucks. No. 1,357,607; Nov. 2; v. 280; p. 76.

Behrens, Henry W., Chicago, Ill. Price-tag holder. No. 1,341,491; May 25; v. 274; p. 742.

Behrens, Hugo E., Fargo, N. D. Grain-separator. No. 1,346,630; July 13; v. 276; p. 319.

Behrens, Walter A., Brooklyn, assignor to W. R. Ostrander & Company, New York, N. Y. Electric pull-socket. No. 1,357,939; Nov. 9; v. 280; p. 202.

Behrman, Marcus B., New York, N. Y. Collapsible tube and other container. No. 1,357,024; Oct. 26; v. 279; p. 646.

Digitized by Google

Alphabetical list of patentees—Continued.

Behrman, Marcus B., Tomkinsville, N. Y., assignor to American Safety Razor Company, Brooklyn, N. Y. Lather-brush. No. 1,353,984; Sept. 28; v. 278; p. 584.

Behrman, Marcus B., New York, assignor to Lox Seal Corporation, Brooklyn, N. Y. Seal. No. 1,359,784; Nov. 23; v. 280; p. 656.

Behrman, Marcus B., New York, N. Y., assignor to Lox Seal Corporation. Tag. No. 1,359,951; Nov. 23; v. 280; p. 689.

Beich, Albert J., Camden, N. J. Power-transmitting belt. No. 1,344,475; June 22; v. 275; p. 743.

Beidler, George C., Rochester, N. Y. Photographic-printing apparatus. No. 1,340,209; May 18; v. 274; p. 425.

Beidler, George C., Rochester, N. Y. Method of and device for developing films. No. 1,346,780; July 13; v. 276; p. 349.

Beidler, George C., Rochester, N. Y. Roll-film-developing apparatus. No. 1,352,109; Sept. 7; v. 278; p. 76.

Beidler, George C., Rochester, N. Y. Photographic and developing apparatus. No. 1,359,481; Nov. 23; v. 280; p. 595.

Beiger, John W. (See Haskell, H. L., and Beiger.)

Beighlee, Henry E., assignor, by mesne assignments, to The Cleveland Instrument Company, Cleveland, Ohio. Compensating pyrometer system and apparatus. No. 1,327,800; Jan. 13; v. 270; p. 233.

Beijer, Andrew P., Stevens Point, Wis. Pump. No. 1,358,504; Nov. 9; v. 280; p. 315.

Beil, Hugo, Lawrence, Mass. Antiskid device for motor-vehicles. No. 1,353,560; Sept. 21; v. 278; p. 456.

Beimdiek, August F., St. Charles, Mo., assignor to American Car and Foundry Company, New York, N. Y. Circuit-closer. No. 1,354,875; Oct. 5; v. 279; p. 85.

Beine, Charles H., Kenosha, assignor of one-half to G. C. Brown, Milwaukee, Wis. Insulator-bracket. No. 1,348,534; Aug. 3; v. 277; p. 78.

Beinhart, Ernest G., Washington, D. C. Curing tobacco. No. 1,327,692; Jan. 13; v. 270; p. 213.

Beirwirth, George C., Canton, Ohio. Rolling-mill guide. No. 1,329,743; Feb. 3; v. 271; p. 74.

Beise, Leonard L., Mapleton, Minn. Cultivator. No. 1,360,868; Nov. 30; v. 280; p. 937.

Beisel, Charles P., East Cambridge, Mass. Trap. No. 1,335,359; Mar. 30; v. 272; p. 820.

Beithon, Gilbert G., Bismarck, N. D. Toy. No. 1,345,343; July 6; v. 276; p. 4.

Beitman, Albert B., assignor to The Outlook Company, Cleveland, Ohio. Bracket for windshield-cleaners. No. 1,347,201; July 20; v. 276; p. 489.

Beitner, George L., Bridgeport, Conn. Joint. No. 1,342,979; June 8; v. 275; p. 321.

Beitter, Melissa J., Nogal, N. Mex. Diaper-supporter. No. 1,334,514; Mar. 23; v. 272; p. 600.

Békefi, Vendel L., Cleveland, Ohio. Air-propeller. No. 1,340,210; May 18; v. 274; p. 426.

Bekkering, Earl H., assignor to Duluth Show Case Company, Duluth, Minn. Counter. No. 1,361,562; Dec. 7; v. 281; p. 118.

Belais, David, New York, N. Y. Production of white gold. No. 1,330,231; Feb. 10; v. 271; p. 197.

Belanger, Joseph, Butte, Mont. Traction and antiskidding device for automobiles. No. 1,344,853; June 29; v. 275; p. 882.

Belanger, Joseph, Butte, Mont. Window. No. 1,359,221; Nov. 16; v. 280; p. 499.

Belcher, Leon K., New York, N. Y. Heat-distributer. No. 1,326,904; Jan. 6; v. 270; p. 4.

Belcher, Richard A., Stratford, Taranaki, New Zealand. Seed-drill. No. 1,358,927; Nov. 16; v. 280; p. 444.

Belcher & Taylor Agricultural Tool Company, The. (See Butterfield, Lewis A., assignor.)

Beldam, William R., London, England. Means for packing joints. No. 1,339,156; May 4; v. 274; p. 94.

Belden, Eduard H., assignor to Industrial Research Corporation, Toledo, Ohio. Equalizing brake mechanism. No. 1,337,815; Apr. 20; v. 273; p. 534.

Belden, Edward H., assignor to Industrial Research Corporation, Toledo, Ohio. Motor-vehicle. No. 1,335,720; Apr. 6; v. 273; p. 3.

Belden, Edward H., assignor to Packard Motor Car Company, Detroit, Mich. Door-latching means. No. 1,339,492; May 11; v. 274; p. 232.

Belden Manufacturing Company. (See Parsons, Newell B., assignor.)

Belden, William E. (See Jordan, D., and Belden.)

Beldin, James H., Malin, Oreg. Adjustable propeller. No. 1,331,045; Feb. 17; v. 271; p. 419.

Belding, Harlow H., West Chicago, Ill. Laundry-wringer. No. 1,328,361; Jan. 20; v. 270; p. 376.

Beler, Adolf, Pittsburgh, Pa. Water-heater. No. 1,356,121; Oct. 19; v. 279; p. 422.

Beler, Adolf, Pittsburgh, Pa. Water-heater. No. 1,356,122; Oct. 19; v. 279; p. 422.

Beler, Robert J., Sheridanville, Pa. Immerser for fruit-jars. No. 1,342,321; June 1; v. 275; p. 138.

Bellveau, Harmidos, Concord, Vt. Milk cooler and aerator. No. 1,360,869; Nov. 30; v. 280; p. 937.

Belk, Charles R., Pittsburgh, Pa. Automatic blower-valve. No. 1,359,317; Nov. 16; v. 280; p. 518.

Belknap, Charles B. (See McOmber, Loren W., assignor.)

Belknap, Charles H., Brooklyn, N. Y. Toy band-wagon. No. 1,341,102; May 25; v. 274; p. 666.

Belknap, Frank L. (See James, Willard C., assignor.)

Belknap, Jane T., Glencoe, Ill. Dish-washing apparatus. No. 1,345,059; June 29; v. 275; p. 920.

Bell, Agnes L., Bellaire, Ohio. Shade-bracket. No. 1,330,997; Feb. 17; v. 271; p. 410.

Bell Auto Memo Company. (See Bell, Robert J., assignor.)

Bell, Cyrus, Whittier, Calif. Sucker-rod joint. No. 1,348,692; Aug. 3; v. 277; p. 109.

Bell, Daniel J., Salamanca, N. Y. Expelling-pin. No. 1,330,157; May 4; v. 274; p. 94.

Bell, Dillwyn M., Detroit, Mich., assignor to Johnson Fare Box Company, Chicago, Ill. Fare-box. No. 1,334,071; Mar. 16; v. 272; p. 471.

Bell, Frank B., Chicago Heights, Ill., assignor to Edgewater Steel Company, Pittsburgh, Pa. Measuring device. No. 1,332,594; Mar. 2; v. 272; p. 80.

Bell, Frank B., Chicago Heights, Ill., assignor to Edgewater Steel Company, Pittsburgh, Pa. Rolling-mill. No. 1,350,057; Aug. 17; v. 277; p. 500.

Bell, Frederika G., St. Paul, Minn. Knitting device. No. 1,351,016; Aug. 31; v. 277; p. 795.

Bell, George, Concord Junction, Mass. Yarn-catcher for spinning-machines. No. 1,343,704; June 15; v. 275; p. 527.

Bell, George A., assignor of one-half to L. C. Hammond, Silver Creek, N. Y. Spark-plug. No. 1,352,775; Sept. 14; v. 278; p. 242.

Bell, George F., Tulsa, Okla. Wire-line drilling-clamp. No. 1,344,476; June 22; v. 275; p. 743.

Bell, George W., Detroit, Mich. Pneumatic antivibration device for automobiles. No. 1,353,886; Sept. 28; v. 278; p. 565.

Bell, Harry, and E. H. Lenz, Evansville, Ind. Touch-regulator for piano-keys. No. 1,341,035; May 25; v. 274; p. 653.

Bell, Henry W. (See Currie, J., and Bell.)

Bell & Howell Company. (See Howell, Albert S., assignor.) (Reissue.)

Bell, John E., Brooklyn, N. Y. Marine boiler. No. 1,332,969; Mar. 9; v. 272; p. 204.

Bell, John E., Brooklyn, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Waste-heat boiler. No. 1,332,284; Mar. 2; v. 272; p. 21.

Bell, John E., Brooklyn, assignor, by mesne assignments, to Foster Marine Boiler Corporation, New York, N. Y. Marine boiler. No. 1,349,869; Aug. 17; v. 277; p. 464.

Bell, John H., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraphy. No. 1,336,414; Apr. 13; v. 273; p. 194.

Bell, John H., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,337,748; Apr. 20; v. 273; p. 522.

Bell, John H., South Orange, N. J., assignor to Western Electric Company, Inc., New York, N. Y. Telegraph system. No. 1,351,989; Sept. 7; v. 278; p. 55.

Bell, John H., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,356,592; Oct. 26; v. 279; p. 561.

Bell, John H., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,359,019; Nov. 16; v. 280; p. 461.

Bell, John H., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,359,565; Nov. 23; v. 280; p. 612.

Bell, John H., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,359,952; Nov. 23; v. 280; p. 689.

Bell, John H., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,360,712; Nov. 30; v. 280; p. 907

Bell, John H., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,360,713; Nov. 30; v. 280; p. 907.

Bell, John H., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,362,592; Dec. 21; v. 281; p. 418.

Bell, Joseph D., San Francisco, Calif. Necktie-former. No. 1,358,505; Nov. 9; v. 280; p. 315.

Bell, Joseph E., *et al.* (See Thommen, John P., assignor.)

Bell, Mary V., Oakland, Calif. Ripping-needle. No. 1,351,010; Aug. 24; v. 277; p. 730.

Bell, Ollie E., Mulvane, Kans. Gasolene-filter. No. 1,335,087; Mar. 30; v. 272; p. 769.

Bell, Raymond T., and L. Mandel, Chicago, Ill., assignors to The Mandel Corporation. Brake or stop device for sound-reproducing machines. No. 1,336,606; Apr. 13; v. 273; p. 230.

Bell, Raymond T., and L. Mandel, assignors, by mesne assignments, to B. F. Goldstein, Chicago, Ill. Lid-supporter. No. 1,359,953; Nov. 23; v. 280; p. 689.

Bell, Reuben, New York, N. Y. Machine for making hat-linings. No. 1,360,870; Nov. 30; v. 280; p. 937.

Bell, Robert J., Harvey, Ill. Clothes-hanger bracket. No. 1,333,600; Mar. 16; v. 272; p. 382.

Bell, Robert J., assignor to Bell's Auto Memo Co., Incorporated, Richmond, Va. Memorandum device. No. 1,346,479; July 13; v. 276; p. 289.

Digitized by Google

Bell, Robert J., assignor to Bell Auto Memo Company, Richmond, Va. Memorandum device. No. 1,360,714; Nov. 30; v. 280; p. 907.
Bell, Thomas H., and J. G. Schoenleber, New York, N. Y. Window-closure device. No. 1,356,123; Oct. 19; v. 279; p. 422.
Bell, Thomas H., New York, assignor of one-half to J. G. Schoenleber, Brooklyn, N. Y. Antiskid device. No. 1,333,788; Mar. 16; v. 272; p. 418.
Bell, William E., Boston, Mass. Electric switch. No. 1,338,607; Apr. 27; v. 273; p. 753.
Bell, William E., assignor to The Bell Wrench Company, Tulsa, Okla. Ratchet pipe-wrench. No. 1,345,983; July 6; v. 276; p. 130.
Bell, William H., Mount Vernon, N. Y. System for indicating and recording orders. No. 1,349,555; Aug. 17; v. 277; p. 403.
Bell, William P., State College, Pa. Anti-skidding device. No. 1,355,027; Oct. 5; v. 279; p. 115.
Bell, William T., and F. J. Bretherton, Lincoln, England. Steam-engine. No. 1,356,424; Oct. 19; v. 279; p. 481.
Bell, William T., and F. J. Bretherton, Lincoln, England. Steering mechanism. No. 1,361,668; Dec. 7; v. 281; p. 138.
Bell, William T., and F. J. Bretherton, Lincoln, England. Gland of steam-engines. No. 1,361,669; Dec. 7; v. 281; p. 138.
Bell, William T., Lincoln, W. H. Watson, Wellingore, and L. W. Jones, Lincoln, England. Motor-plow. No. 1,338,550; Apr. 27; v. 273; p. 742.
Bell Wrench Company, The. (See Bell, William E., assignor.)
Bella, Theodore F., Stevens Point, Wis. Device for extracting tractors. No. 1,363,634; Dec. 28; v. 281; p. 660.
Bellairs, John W. (See Webster, E. S., and Bellairs.)
Bellairs, John W., Mishawaka, Ind. Rocking-horse. No. 1,339,493; May 11; v. 274; p. 232.
Bellamy, Harry T., Oak Park, Ill., and B. T. Sweely, Cicero, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Resistance material. No. 1,346,874; July 20; v. 276; p. 426.
Belle Hat Lining Co., The. (See Rosenberg, Solomon, assignor.)
Belleville, Edwin A. (See Bellville, F., and Belleville.)
Bellican, Robert P., Natchez, Miss. Gate closer and supporter. No. 1,350,134; Aug. 17; v. 277; p. 515.
Belling, Bernard A., assignor of one-half to C. S. Knaup, Beaver Dam, Wis. Drinking-cup for stock. No. 1,344,750; June 29; v. 275; p. 862.
Bellinger, Daniel L., Glens Falls, N. Y. Refining-engine for paper-stock. No. 1,358,354; Nov. 9; v. 280; p. 284.
Bellinger, Ray, Chicopee Falls, Mass. Window-lock. No. 1,338,416; Apr. 27; v. 273; p. 718.
Bellis, Arthur E., Springfield, Mass., assignor to Collins and Roessel, Inc., New York, N. Y. Crucible. No. 1,358,816; Nov. 16; v. 280; p. 422.
Belim, Henry E. (See Colver, A. S., and Belim.)
Bellonby, Leonard A., Montpelier, Vt. Curing concrete and like plastic materials. No. 1,348,775; Aug. 3; v. 277; p. 124.
Bellows, Benjamin F., Nevada, Mo., assignor of one-third to M. E. Toston, Briceland, Calif. Windmill. No. 1,363,174; Dec. 21; v. 281; p. 531.
Bellows, Warren S. (See Becker, J. H., and Bellows.)
Bell's Auto Memo Co. (See Bell, Robert J., assignor.)
Bellville, Frank, and E. A. Belleville, Twin Falls, Idaho. Air-filter for gas-engines. No. 1,357,140; Oct. 26; v. 279; p. 668.
Bellville, Raymond, *et al.* (See Crays, Oscar M., assignor.)
Bellwood, Robert A. (See Downs, C., Bellwood, and Turnill.)
Belmont, Harry H., assignor to The Standard Parts Company, Cleveland, Ohio. Welding heavy-gage tubing. No. 1,354,593; Oct. 5; v. 279; p. 29.
Belmont, Ralph A., New York, N. Y., assignor to Beaver Machine and Tool Co., Inc., Newark, N. J. Feed-trough switch. No. 1,355,121; Oct. 12; v. 279; p. 186.
Beloin, Eli, New Britain, Conn. Game. No. 1,362,218; Dec. 14; v. 281; p. 294.
Belrose, Thomas H. (See Funk, James M., assignor.)
Belshaw Engine Co. (See Belshaw, Walter, assignor.)
Belshaw, Walter, assignor of four-fifths to Belshaw Engine Co., Everett, Wash. Planetary eccentric system of gearing. No. 1,347,671; July 27; v. 276; p. 640.
Belt Grip Pulley Company. (See Finch, Albert E., assignor.)
Belt, Thomas A. E., Schenectady, N. Y., assignor to General Electric Company. Electrical system of distribution. No. 1,362,593; Dec. 21; v. 281; p. 418.
Belt, William M., and H. C. Smith, assignors, by mesne assignments, to American Concrete Forms Company, Bloomington, Ill. Centering means and forming monolithic arches. No. 1,350,772; Aug. 24; v. 277; p. 686.
Belvin, Preston, Richmond, Va. Canning-boiler. No. 1,341,353; May 25; v. 274; p. 715.
Belvin, Preston, Richmond, Va. Floor-oiler. No. 1,350,638; Aug. 24; v. 277; p. 660.
Belz, Edward P., Athens, Wis. Harness trace-chain. No. 1,346,439; July 13; v. 276; p. 281.
Bemis Brothers Bag Company. (See Morrill, Philip E., assignor.)
Bemis, Ruth, *et al.*, trustees. (See Anderson, Newton M., assignor.)
Bemis, Thomas, Sr., *et al.*, trustees. (See Anderson, Newton M., assignor.)
Bemisderfer, Harvey O. (See Pfeil, E. C., and Bemisderfer.)
Bemisderfer, Harvey O., Fostoria, Ohio, assignor to Central Railway Signal Company, Pittsburgh, Pa. Bonnet for railway-signal fusee-caps and making it. No. 1,327,899; Jan. 13; v. 270; p. 252.
Benard-Barbier & Turenne. (See Granat, Elie, assignor.)
Benard, Henri L. M. J., Paris, France. Flash-light for aerial navigation. No. 1,337,880; Apr. 20; v. 273; p. 547.
Benbow, James D. (See Moats, O. E., and Benbow.)
Benbow, James D. (See Moats, O. E., Rhoades, and Benbow.)
Benbow, James D., assignor to Western Wheeled Scraper Company, Aurora, Ill. Car-truck. No. 1,361,808; Dec. 14; v. 281; p. 212.
Benbow, Solon H. (See D'Arcy, W., and Benbow.)
Benbow, Solon H. (See D'Arcy, Wellington, assignor.)
Bench, Marion F., Chillicothe, Mo. Folding crate. No. 1,338,608; Apr. 27; v. 273; p. 753.
Bendel, Emil H., Alameda, Calif. Lettering-pen. No. 1,359,865; Nov. 23; v. 280; p. 672.
Bender, Berlin, Washington, D. C. Flying-machine. No. 1,359,566; Nov. 23; v. 280; p. 613.
Bender, David G., Blue Island, Ill. Wall construction. No. 1,327,584; Jan. 6; v. 270; p. 132.
Bender, David L., Lebanon, Pa. Device for holding and carrying shoe parts. No. 1,357,439; Nov. 2; v. 280; p. 45.
Bender, George P., New York, N. Y. Flushing device. No. 1,347,318; July 20; v. 276; p. 514.
Bender, Howard L., Cleveland, Ohio. Making acetaldehyde. No. 1,355,299; Oct. 12; v. 279; p. 221.
Bender, John H., Kansas City, Mo. Card-holder. No. 1,349,935; Aug. 17; v. 277; p. 476.
Bender, Leo D., Chicago, Ill. Photograph-holder. No. 1,333,531; Mar. 9; v. 272; p. 308.
Bender, Lillian M., San Francisco, Calif. Flesh-reducing garment. No. 1,361,220; Dec. 7; v. 281; p. 47.
Bendix, Frederick. (See Phelan, R., and Bendix.)
Bendix, Herman G., and P. J. Specce, New York, N. Y. Shoe cleaning and ironing device. No. 1,356,425; Oct. 19; v. 279; p. 481.
Bendix, Vincent, Chicago, Ill. Engine-starter. No. 1,327,132; Jan. 6; v. 270; p. 47.
Bendix, Vincent, Chicago, Ill. Engine-starter. No. 1,327,302; Jan. 6; v. 270; p. 79.
Bendix, Vincent, Chicago, Ill. Engine-starter. No. 1,327,803; Jan. 6; v. 270; p. 79.
Bendix, Vincent, Chicago, Ill. Engine-starter. No. 1,327,804; Jan. 6; v. 270; p. 79.
Bendix, Vincent, Chicago, Ill. Engine-starter. No. 1,330,834; Feb. 17; v. 271; p. 378.
Bendix, Vincent, Chicago, Ill. Engine-starter. No. 1,345,576; July 6; v. 276; p. 49.
Bendix, Vincent, Chicago, Ill. Engine-starter. No. 1,348,147; Aug. 3; v. 277; p. 3.
Bendix, Vincent, Chicago, Ill. Engine-starter. No. 1,354,157; Sept. 28; v. 278; p. 620.
Bendix, Vincent, Chicago, Ill. Engine-starter. No. 1,359,954; Nov. 23; v. 280; p. 690.
Benecke, Adelbert O., assignor to Crosby Steam Gage & Valve Company, Boston, Mass. Engine-indicator. No. 1,336,810; Apr. 13; v. 273; p. 269.
Benecke, Louis A., *et al.* (See Flatau, Louis S., assignor.)
Benedict, Bernard, New York, N. Y. Portable electric light. No. 1,335,644; Mar. 30; v. 272; p. 873.
Benedict, Centennial H., and H. C. Kenny, Lake Linden, Mich. Treating copper-bearing sands. No. 1,335,474; Mar. 30; v. 272; p. 840.
Benedict, Charles L., Toronto, Ontario, Canada. Envelop. No. 1,343,075; June 8, v. 275; p. 340.
Benedict, Edward. (See Reynolds, Arthur W., assignor.)
Benedict, Emory J., and M. C. Frost, Memphis, Tenn. Resilient tire. No. 1,346,695; July 13; v. 276; p. 332.
Benedict, Henry I., New Orleans, La. Jack-base. No. 1,328,115; Jan. 13; v. 270; p. 292.
Benedict, James Z., Cedar Rapids, Iowa. Hand-cart. No. 1,350,058; Aug. 17; v. 277; p. 500.
Benedict, Paul M., New Haven, assignor to The Barnes & Kobert Manufacturing Company, Millidale, Conn. Electric riveting-machine. No. 1,346,631; July 13; v. 276; p. 319.
Benedict, T. N., Mfg. Co. (See Westfall, Frederick C., assignor.)
Benefiel, Claude, Bremerton, Wash., assignor of one-half to W. A. Clench, Seattle, Wash. Chain saw. No. 1,339,091; May 4; v. 274; p. 83.
Benecke & Kropf Mfg. Co. (See Rayfield, Charles L., assignor.)
Benenati, Francis S., Syracuse, N. Y. Composition of matter. No. 1,331,690; Feb. 24; v. 271; p. 559.
Benevento, Rocco, West Brighton, N. Y. Pressing device. No. 1,354,797; Oct. 5; v. 279; p. 70.

Digitized by Google

Benham, Charles E., Schenectady, N. Y., assignor to The Maqua Company. Printer's furniture. No. 1,349,257; Aug. 10; v. 277; p. 272.
Benham, Edgar M. (See Benham, William T. and E. M.)
Benham, Edgar M., Norwood, Ohio, assignor, by mesne assignments, to The Mosler Lock Company, Cincinnati, Ohio. Combination-lock. No. 1,345,574; July 6; v. 276; p. 49.
Benham, William T., Norwood, assignor to The Mosler Lock Company, Cincinnati, Ohio. Key-changing combination-lock. No. 1,341,876; June 1; v. 275; p. 52.
Benham, William T. and E. M., Norwood, assignors, by mesne assignments, to The Mosler Lock Company, Cincinnati, Ohio. Combination-lock. No. 1,345,575; July 6; v. 276; p. 49.
Benjaman Tractor Company. (See Chenoweth, William B., assignor.)
Benjamin, Bert R., and C. A. Hagadone, Oak Park, Ill., assignors, by mesne assignments, to International Harvester Company. Pivoted discharge-arm. No. 1,327,805; Jan. 6; v. 270; p. 79.
Benjamin, Bert R., Oak Park, Ill., assignor, by mesne assignments, to International Harvester Company. Bundle-carrier for harvesters. No. 1,328,781; Jan. 20; v. 270; p. 454.
Benjamin, Chester W., Lakewood, assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Rolling-mill. No. 1,330,423; Feb. 10; v. 271; p. 233.
Benjamin, Clarence F., Milford, Conn. Machine for dropping bullets, &c. No. 1,340,432; May 18; v. 274; p. 468.
Benjamin, Dana H. (See Waream, C. E., and Benjamin.)
Benjamin, Dana H., Cleveland Heights, assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Pressing-machine. No. 1,327,976; Jan. 13; v. 270; p. 266.
Benjamin, Dowling, Camden, N. J. Condensing-radiator. No. 1,335,812; Apr. 6; v. 273; p. 20.
Benjamin Eastwood Company. (See Zeedyk, William.)
Benjamin, Edward O., Newark, N. J. Closure and tap for tanks, &c. No. 1,328,980; Jan. 27; v. 270; p. 522.
Benjamin, Edward O., Newark, N. J. Electrolytic apparatus. No. 1,328,981; Jan. 27; v. 270; p. 522.
Benjamin, Edward O., Newark, N. J., assignor to International Oxygen Company, New York, N. Y. Electrolytic apparatus. No. 1,344,220; June 22; v. 275; p. 692.
Benjamin Electric Manufacturing Company. (See Anderson, Ernst G. K., assignor.)
Benjamin Electric Manufacturing Company. (See Benjamin, Reuben B., assignor.)
Benjamin Electric Manufacturing Company. (See Benjamin and Anderson, assignors.)
Benjamin Electric Manufacturing Company. (See Cottrell, William, assignor.)
Benjamin Electric Manufacturing Company. (See Curless, James M., assignor.)
Benjamin Electric Manufacturing Company. (See Harlow, Clarence B., assignor.)
Benjamin Electric Manufacturing Company. (See Sidon, Maximilian, assignor.)
Benjamin Electric Manufacturing Company. (See Tregoning, William C., assignor.)
Benjamin, Emanuel V., New Orleans, La. Connecting means for bale-bands. No. 1,351,991; Sept. 7; v. 278; p. 55.
Benjamin, George H., New York, N. Y. Gas-producer. No. 1,329,744; Feb. 3; v. 271; p. 74.
Benjamin, George H., New York, N. Y. Tunnel-kiln. No. 1,329,745; Feb. 3; v. 271; p. 75.
Benjamin, George H., New York, N. Y. Method of and apparatus for drying fruits, vegetables, and other substances. No. 1,339,092; May 4; v. 274; p. 83.
Benjamin, George H., New York, N. Y. Evaporator and operating such evaporator. No. 1,355,935; Oct. 19; v. 279; p. 384.
Benjamin, Harry S. (See Perry, Frank R., assignor.)
Benjamin, John M., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Nail-distributing machine. No. 1,342,415; June 8; v. 275; p. 210.
Benjamin, Maxwell W., *et al.* (See Hadrich, George, assignor.)
Benjamin, Newton, Elmira, N. Y. Tire-casing and making the same. No. 1,351,463; Aug. 31; v. 277; p. 883.
Benjamin, Philip, New York, and S. Burger, Brooklyn, N. Y. Watch. No. 1,340,003; May 11; v. 274; p. 329.
Benjamin, Philip, New York, and S. Burger, Brooklyn, N. Y. Locket. No. 1,362,384; Dec. 14; v. 281; p. 326.
Benjamin, Reuben B. (See Leland, Benjamin, and Sellar.)
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Receptacle. No. 1,328,224; Jan. 13; v. 270; p. 313.
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Fuse-plug. No. 1,328,782; Jan. 20; v. 270; p. 454.
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Attachment-plug. No. 1,328,783; Jan. 20; v. 270; p. 454.
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electrical receptacle. No. 1,328,785; Jan. 20; v. 270; p. 455.
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Separable contact device. No. 1,335,550; Mar. 30; v. 272; p. 855.
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electric-lamp socket. No. 1,336,607; Apr. 13; v. 273; p. 230.
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electrical connecting device. No. 1,336,608; Apr. 13; v. 273; p. 231.
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Signal device for motor-vehicles. No. 1,336,609; Apr. 13; v. 273; p. 231.
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Water-tight connection for electrical conductors. No. 1,345,473; July 6; v. 276; p. 29.
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Separable attachment device. No. 1,352,776; Sept. 14; v. 278; p. 242.
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Illuminating device. No. 1,352,777; Sept. 14; v. 278; p. 242.
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Combined connecting-block and fuse-block. No. 1,352,778; Sept. 14; v. 278; p. 243.
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Illuminating devices. No. 1,355,300; Oct. 12; v. 279; p. 221.
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electrical receptacle. No. 1,355,301; Oct. 12; v. 279; p. 222.
Benjamin, Reuben B., and E. G. K. Anderson, assignors to Benjamin Electric Manufacturing Company, Chicago, Ill. Binding terminal. No. 1,328,784; Jan. 20; v. 270; p. 455.
Benjamin-Sellar Manufacturing Company. (See Leland, Benjamin, and Sellar, assignors.)
Benjestorf, Edward, Fenwood, Saskatchewan, Canada. Antiskid-chain. No. 1,344,477; June 22; v. 275; p. 744.
Benn, Alonzo N., Chicago, Ill. Bacon-smoking trolley. No. 1,360,871; Nov. 30; v. 280; p. 938.
Benner, Charles. (See Evits, C., and Benner.)
Benner, Nathaniel W., Philadelphia, Pa. Target-trap. No. 1,362,467; Dec. 14; v. 281; p. 342.
Benner, Raymond C., and H. F. French, Fremont, Ohio, assignors to National Carbon Company, Inc., New York, N. Y. Apparatus for producing smoke-screens. No. 1,336,557; Apr. 13; v. 273; p. 221.
Bennet, G. Henry, Springdale, assignor of one-half to W. Hruza, Livingston, Mont. Hay-cocker. No. 1,347,141; July 20; v. 276; p. 478.
Bennett, Alan M., assignor of one-half to C. H. Florandin, Westfield, N. J. Arc-welding generator. No. 1,346,164; July 13; v. 276; p. 226.
Bennett, Alan M., Westfield, N. J., assignor, by mesne assignments, to Burke Electric Company. Arc-welding system. No. 1,357,486; Nov. 2; v. 280; p. 53.
Bennett, Andrew P. (See Parsons, Cook, and Bennett.)
Bennett, Ashley C., Minneapolis, Minn. Explosive-engine. No. 1,328,484; Jan. 20; v. 270; p. 399.
Bennett, Ashley C., Minneapolis, Minn. Air-cleaner for carbureters. No. 1,334,927; Mar. 23; v. 272; p. 680.
Bennett, Ashley C., Minneapolis, Minn. Air-cleaning ventilator. No. 1,342,152; June 1; v. 275; p. 106.
Bennett, Augustus P., New York, N. Y. Window-cleaner. No 1,355,728; Oct. 12; v. 279; p. 304.
Bennett, Charles E., assignor of one-half to Marshall P. Maxwell, Atlanta, Ga. Current-interrupter for electric circuits. No. 1,359,222; Nov. 16; v. 280; p. 499.
Bennett, Charles H., Mount Morris, N. Y. Toothpick-dispensing device. No. 1,345,984; July 6; v. 276; p. 130.
Bennett, Charles W. (See Saunders, C. L., Stanley, and Bennett.)
Bennett, Clark H., Chicago, Ill. Manufacturing varnish. No. 1,341,103; May 25; v. 274; p. 666.
Bennett, Edward, Washington, D. C. Combined card-holder and clamp. No. 1,336,723; Apr. 13; v. 273; p. 253.
Bennett, Edward O., Oakland, Calif., assignor of fifty per cent. to H. Ruhl, San Francisco, Calif., and Chicago, Ill. Key-lock. No. 1,328,074; Jan. 13; v. 270; p. 285.
Bennett, Ellis J., Albion, Ill. Mechanical starter for motor-vehicles. No. 1,358,697; Nov. 16; v. 280; p. 398.
Bennett, Ellwood F., Sayre, Pa. Rail-bender. No. 1,337,587; Apr. 20; v. 273; p. 491.
Bennett, Erastus S., New York, N. Y. Turbine-engine. No. 1,349,487; Aug. 10; v. 277; p. 316.
Bennett, Ernest G. S. (See Harrison, G., and Bennett.)
Bennett, Ernest M., Prahran, Melbourne, Victoria, Australia. Reflecting lamp shade and globe. No. 1,354,158; Sept. 28; v. 278; p. 621.
Bennett, Felix L., assignor of one-half to A. E. Charles, Hendra, near Brisbane, Queensland, Australia. Bodkin, needle, or the like. No. 1,356,124; Oct. 19; v. 279; p. 423.
Bennett, Frank S., Philadelphia, Pa. Inner-tube covering for tires. No. 1,346,632; July 13; v. 276; p. 319.
Bennett, Geoffrey T. (See Campbell, G. R. C., and Bennett.)

Digitized by Google

Alphabetical list of patentees—Continued.

Bennett, George A., South Yarra, Victoria, Australia. Loose-leaf book or binder. No. 1,363,385; Dec. 28; v. 281; p. 612.
Bennett, George H., assignor to Gilbert Gilkes & Company, Limited, Kendal, England. Apparatus for soldering sheet-metal vessels. No. 1,343,493; June 15; v. 275; p. 484.
Bennett, George L., Hastings-on-Hudson, N. Y. Ice-vending machine. No. 1,339,053; May 4; v. 274; p. 75.
Bennett, George W., assignor of one-half to L. E. Dwyer, Columbus, Ohio. Traffic-sign. No. 1,331,691; Feb. 24; v. 271; p. 559.
Bennett Injector Company. (See Wood, A. J., assignor.)
Bennett, Jackson W., Carthage, Mo. Reinforcing concrete posts and the like. No. 1,334,881; Mar. 23; v. 272; p. 670.
Bennett, James, Cleveland, Ohio. Boiler-tube and combustion-chamber cleaner. No. 1,340,144; May 18; v. 274; p. 414.
Bennett, James G., Snoqualmie, Wash. Tie and fastener. No. 1,333,894; Mar. 16; v. 272; p. 437.
Bennett, John B. (See Eubanks, T. G., and Bennett.)
Bennett, John T., Scappoose, Oreg. Adjustable ratchet-wrench. No. 1,334,432; Mar. 23; v. 272; p. 585.
Bennett, Leland V., Westerville, Ohio. Game-board. No. 1,339,013; May 4; v. 274; p. 67.
Bennett, Lewis J., assignor of one-third to G. Scharff and one-third to D. M. Armstrong, Memphis, Tenn. Mattress. No. 1,355,729; Oct. 12; v. 279; p. 304.
Bennett, Lewis J., assignor of one-third to G. Scharff and one-third to D. M. Armstrong, Memphis, Tenn. Mattress and making same. No. 1,355,730; Oct. 12; v. 279; p. 304.
Bennett, Lu Ella, Sutherland, Mont., Stove-leg. No. 1,346,526; July 13; v. 276; p. 298.
Bennett, Morris H., assignor to Scovill Manufacturing Company, Waterbury, Conn. Melting and melting and reducing metals. No. 1,337,305; Apr. 20; v. 278; p. 438.
Bennett, Orville F., Haverhill, Mass. Boiler connection. No. 1,334,072; Mar. 16; v. 272; p. 471.
Bennett, Ralph R., San Jose, Calif. Weighing-machine. No. 1,353,139; Sept. 21; v. 278; p. 373.
Bennett, Reuel W., Indianapolis, Ind., and E. M. Jones, Adrian, Mich.; said Jones assignor to said Bennett. Apparatus for conducting experiments. No. 1,338,967; May 4; v. 274; p. 58.
Bennett, Samuel. (See Calow, Stanley C., assignor.)
Bennett, William, Hamilton, Ontario, Canada. Antiglare device for headlights. No. 1,344,164; June 22; v. 275; p. 682.
Bennett, William G., *et al.* (See Keenan, Ellsworth E., assignor.)
Bennington, Wesley H., Cleveland, Ohio. Phonograph-cabinet. No. 1,327,977; Jan. 13; v. 270; p. 266.
Bennis, Alfred W., Bolton, England. Internal-combustion engine. No. 1,363,708; Dec. 28; v. 281; p. 675.
Bennor, Joseph N., assignor to Universal Package Tie Device Company, Macon, Ga. Package-tie device. No. 1,329,746; Feb. 3; v. 271; p. 75.
Benoit, Ida V., Brooklyn, N. Y. Pin-attached separable fastener. No. 1,354,159; Sept. 28; v. 278; p. 621.
Benoit, Ida V., Brooklyn, N. Y. Automobile-tire chain. No. 1,363,175; Dec. 21; v. 281; p. 531.
Benoit, Léon, Vancouver, British Columbia, Canada. Wrench. No. 1,355,883; Oct. 19; v. 279; p. 375.
Benoit, Leon, and P. F. King, Vancouver, British Columbia, Canada. Wrench. No. 1,347,491; July 27; v. 276; p. 604.
Bensberg, Ferdinand A., St. Louis, Mo. Telephone-receiver holder. No. 1,358,506; Nov. 9; v. 280; p. 315.
Benson, Andrew, Chicago, Ill., assignor, by mesne assignments, to Janesville Products Company, Janesville, Wis. Driving mechanism. No. 1,337,634; Apr. 20; v. 273; p. 500.
Benson, Bennett K., Hatton, N. D. Jewelry-setting. No. 1,344,111; June 22; v. 275; p. 671.
Benson, Bradley L., *et al.* (See Klenke, August C., assignor.)
Benson, Jesse M., Concord, Tenn. Automobile steering mechanism. No. 1,349,653; Aug. 17; v. 277; p. 422.
Benson, John A., Lawrence, Kans. Sanitary drinking-fountain. No. 1,360,260; Nov. 30; v. 280; p. 818.
Benson, John W., Elkhorn, W. Va. Pail-lid. No. 1,335,645; Mar. 30; v. 272; p. 873.
Benson, Lawrence, Kokomo, Ind. Fishing-reel. No. 1,351,549; Aug. 31; v. 277; p. 901.
Benson, Matthew P., Troy, and M. M. Wiener, New York, N. Y. Brush-hanger and pad-remover. No. 1,352,346; Sept. 7; v. 278; p. 121.
Benson, Melvin B., Superior, Wis. Telemotor. No. 1,345,060; June 29; v. 275; p. 920.
Benson, Ralph W. (See Lacerda, Harry A., assignor.)
Benson, Stewart F., Brainerd, Minn. Oil-dip gage. No. 1,360,492; Nov. 30; v. 280; p. 863.
Bentel, George R., assignor, by mesne assignments, to Reim-Thompson Co., Los Angeles, Calif. Auxiliary windshield. No. 1,345,061; June 29; v. 275; p. 921.
Bentley, George H., and E. G. Appleby, Westminster, London, England. Gas-generator. No. 1,343,995; June 22; v. 275; p. 649.
Bentley, Horatio H., assignor to himself and Harland and Wolff, Limited, Belfast, Ireland. Gear for operating bulkhead-doors and the like. No. 1,361,221; Dec. 7; v. 281; p. 47.
Bentley, Joseph H., Bridgeport, Conn. Vise-handle. No. 1,350,773; Aug. 24; v. 277; p. 686.
Bentley, Manton T., Cleveland, Ohio. Bung for metal barrels. No. 1,355,936; Oct. 19; v. 279; p. 385.
Bentley, Robert J., Monroe, Mich. Phonograph-record-filing device. No. 1,340,364; May 18; p. 274; p. 455.
Bentley, Walter O., London, England. Cylinder-block. No. 1,357,538; Nov. 2; v. 280; p. 63.
Benton, George E., East Hampton, N. Y. Letter-box-closure operator. No. 1,342,890; June 8; v. 275; p. 304.
Benton, George T., assignor of one-half to O. A. McDill, Willow Springs, Mo. Double clamp. No. 1,352,647; Sept. 14; v. 278; p. 216.
Benton, Henry, Elizabeth, N. J. Furnace. No. 1,328,116; Jan. 13; v. 270; p. 293.
Benton, James, East Palestine, Ohio. Multiple-cup mold. No. 1,349,546; Aug. 10; v. 277; p. 328.
Benton, James G., Maisonneuve, assignor, by mesne assignments, of one-half to A. Murray, Montreal, Quebec, Canada. Electrical plug. No. 1,359,567; Nov. 23; v. 280; p. 613.
Bentson, Hans J., Winthrop Harbor, assignor to F. C. Austin, Chicago, Ill. Trenching-machine. No. 1,327,418; Jan. 6; v. 270; p. 100.
Bentson, Hans J., La Jolla, Calif., assignor to F. C. Austin, Chicago, Ill. Trenching-machine. No. 1,349,936; Aug. 17; v. 277; p. 476.
Bentzel, David E., York, Pa. Gate. No. 1,347,438; July 20; v. 276; p. 537.
Benwell, Albert H., St. Louis, Mo. Wrench. No 1,351,276; Aug. 31; v. 277; p. 846.
Benyei, John, Cleveland, Ohio. Combined rule and pencil-holder. No. 1,356,902; Oct. 26; v. 279; p. 621.
Benz, Frank J., San Jose, Calif. Lace-tip. No. 1,353,140; Sept. 21; v. 278; p. 374.
Benzinger, Albert, assignor of one-half to W. M. Schoenle, Cincinnati, Ohio. Closure. No. 1,336,811; Apr. 13; v. 273; p. 270.
Beran, Rud F. (See Kaspar, J., and Beran.)
Berardinelli, Fred L., and T. S. Wikoff, Plainfield, N. J. Flexible shaft. No. 1,330,051; Feb. 10; v. 271; p. 163.
Berardy, James R., Brooklyn, N. Y. Grating-machine. No. 1,362,075; Dec. 14; v. 281; p. 266.
Berberich, Charles, Waterbury, Conn. Cigar-tip cutter. No. 1,336,724; Apr. 13; v. 278; p. 253.
Berdon, A. E., Anderson, Ind., C. Ringwald, and A. F. Gomory, Detroit, Mich., assignors to Remy Electric Company, Anderson, Ind. Distributer-head for ignition devices. No. 1,351,714; Aug. 31; v. 277; p. 932.
Berea, Alenjandro, administrator *de bonis non*. (See Staud y Ximenez, Fernando.)
Berel, Milton, New York, N. Y., and L. Funke, Newark, N. J. Oscillation-generator for wireless systems. No. 1,333,876; Mar. 9; v. 272; p. 279.
Beregh, Theodore J., New York, N. Y. Web-tension brake mechanism for printing-presses. No. 1,342,525; June 8; v. 275; p. 231.
Beremand, Preston G., Bay City, Mich. Sectional wheel-rim. No. 1,341,877; June 1; v. 275; p. 52.
Beremand, Preston G., Bay City, Mich. Differential and driving mechanism. No. 1,342,938; June 8; v. 275; p. 313.
Berendoncks Section Type Syndicate. (See Van Berendonck, Philippe E., assignor.)
Berenstein, Frank. (See Hilder, Stuart, assignor.)
Bereznay, John, Throop, Pa. Self-propelled sleigh. No. 1,345,062; June 29; v. 275; p. 921.
Bereznay, John, Throop, Pa. Railway-gate. No. 1,350,639; Aug. 24; v. 277; p. 660.
Berford, Patrick J., Sprankles Mills, Pa. Washing-machine. No. 1,358,507; Nov. 9; v. 280; p. 315.
Berg, Albert, Hönefos, Norway. Angle-measuring instrument. No. 1,341,036; May 25; v. 274; p. 653.
Berg, Alex P. K., Turlock, Calif. Road-scraper and land leveler. No. 1,351,277; Aug. 31; v. 277; p. 846.
Berg, Alexander, St. Louis, Mo. Hide-stretcher. No. 1,339,093; May 4; v. 274; p. 83.
Berg, Anton C., White Bear, Minn. Tire-valve. No. 1,344,854; June 29; v. 275; p. 882.
Berg, Ernst J., Schenectady, N. Y., assignor to General Electric Company. Wireless receiving apparatus. No. 1,352,242; Sept. 7; v. 278; p. 102.
Berg, Frederick A., Chicago, Ill. Parachute for flying-machines. No. 1,329,359; Feb. 3; v. 271; p. 4.
Berg, Karl A. T., Höganäs, Sweden. Two-stroke-internal-combustion engine. No. 1,350,135; Aug. 17; v. 277; p. 515.
Berg, Louis H. (See Marburger and Berg.)
Berg, Louis L., Bellingham, Wash. Shoemaker's jack. No. 1,353,985; Sept. 28; v. 278; p. 585.
Berg, Olav, *et al.* (See Koch, George, assignor.)
Berg, William J., Maximo, and A. B. Kidder, Canton, Ohio; said Kidder assignor to said Berg. Rim-tool. No. 1,341,104; May 25; v. 274; p. 666.

Digitized by Google

Berge, Joseph, assignor to Champion Ignition Company, Flint, Mich. Reset mechanism. No. 1,358,817; Nov. 16; v. 280; p. 422.

Bergen, George B., assignor, by mesne assignments, to Autopoint Pencil Company, Chicago, Ill. Lead-pencil. No. 1,359,568; Nov. 23; v. 280; p. 613.

Bergen, Harry S., Toledo, Ohio, assignor, by mesne assignments, to Toledo Scale Company, Newark, N. J. Automatic scale with price and weight printing attachment. No. 1,347,572; July 27; v. 276; p. 621.

Bergen, Harry S., assignor to Toledo Scale Company, Toledo, Ohio. Weighing-scale. No. 1,360,172; Nov. 23; v. 280; p. 732.

Bergen, John C., New Brunswick, N. J. Bag. No. 1,349,654; Aug. 17; v. 277; p. 422.

Bergen, John F. (See Marcus, J., and Bergen.)

Bergendahl, Lewis J., Vallejo, Calif. Hair-cutter. No. 1,337,429; Apr. 20; v. 273; p. 461.

Bergendorf, Gottfrid, assignor to Rock Island Plow Company, Rock Island, Ill. Support for motors. No. 1,353,986; Sept. 28; v. 278; p. 585.

Berger, Charles F., Pelham, N. Y. Chalk-trough. No. 1,352,720; Sept. 14; v. 278; p. 231.

Berger, Charles F., Pelham, N. Y. Combination chalk-trough. No. 1,352,721; Sept. 14; v. 278; p. 231.

Berger, George O., Philadelphia, Pa. Testing apparatus. No. 1,343,611; June 15; v. 275; p. 508.

Berger, Isidore S., New York, N. Y. Tooth-shade guide. No. 1,327,306; Jan. 6; v. 270; p. 79.

Berger, John S. (See Sell and Berger.)

Berger, Joseph, Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine. No. 1,329,221; Jan. 27; v. 270; p. 567.

Berger, Joseph, Jr., Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine. (Reissue.) No. 14,813; Mar. 9; v. 272; p. 321.

Berger, Joseph, Jr., Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine. (Reissue.) No. 14,814; Mar. 9; v. 272; p. 321.

Berger, Joseph, Jr., Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Uniting fabric-sections. No. 1,349,711; Aug. 17; v. 277; p. 434.

Berger, Joseph, Jr., Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Uniting fabric-sections. No. 1,349,712; Aug. 17; v. 277; p. 434.

Berger Joseph, Jr., Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine. No. 1,356,334; Oct. 19; v. 279; p. 464.

Berger, Julius J., and J. Gardner, Union Hill, N. J. Mold for pneumatic tubes. No. 1,362,594; Dec. 21; v. 281; p. 418.

Berger Manufacturing Company. (See Hiller, T., and Myers, assignors.)

Berger, Otto R., assignor to R. J. Bischoff, Chicago, Ill. Cooking utensil. No. 1,341,731; June 1; v. 275; p. 23.

Berger, Samuel, Newark, N. J. Sink scoop or shovel. No. 1,353,307; Sept. 21; v. 278; p. 406.

Bergeron, Arthur J., New York, N. Y. Rope-lock for pulleys. No. 1,346,696; July 13; v. 276; p. 332.

Bergeron, Clovis, assignor of one-half to E. W. Singletary, Morganza, La. Sewing-machine attachment. No. 1,336,340; Apr. 6; v. 273; p. 120.

Bergeron, Lindor, Macamic, Quebec, Canada. Sleigh. No. 1,353,141; Sept. 21; v. 278; p. 374.

Bergey, Aaron E., Bazetta township, Trumbull county, Ohio. Mechanism for driving tools. No. 1,352,045; Sept. 7; v. 278; p. 64.

Bergey, Aaron E., Bazetta township, Trumbull county, Ohio. Mechanism for driving tools. No. 1,357,376; Nov. 2; v. 280; p. 33.

Berghaus, John H. Jr. (See Lamkin and Berghaus.)

Berghman, George H., Chicago, Ill. Skate-sharpener. No. 1,335,813; Apr. 6; v. 273; p. 21.

Berghman, George H., Chicago, Ill. Skate-sharpener. (Reissue.) No. 15,001; Dec. 14; v. 281; p. 365.

Berglus, Friedrich, Essen-on-the-Ruhr, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Hydrogenating carbon compounds. No. 1,342,790; June 8; v. 275; p. 284.

Berglus, Friedrich, Hanover, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Obtaining light hydrocarbons from heavy hydrocarbons. No. 1,344,671; June 29; v. 275; p. 847.

Bergland, Gunder O., Deerfield, Wis. Journal-box. No. 1,345,063; June 29; v. 275; p. 921.

Bergland, Christian J., Seattle, Wash. Stove. No. 1,343,341; June 15; v. 275; p. 455.

Berglind, Anders D., Klosterpossen, Skien, Norway. Apparatus for bleaching cellulose and like substances. No. 1,329,824; Feb. 3; v. 271; p. 90.

Berglof, Knut, Monessen, Pa. Annealing-furnace. No. 1,336,190; Apr. 6; v. 273; p. 92.

Berglund, Edward S. Trollhättan, assignor to S. Huldt, Stockholm, Sweden. Extraction of zinc. No. 1,331,740; Feb. 24; v. 271; p. 569.

Bergman, Axel G., assignor to Ordnance Engineering Corporation, New York, N. Y. Hand-grenade. No. 1,330,424; Feb. 10; v. 271; p. 233.

Bergman, Axel G., assignor to Ordnance Engineering Corporation, New York, N. Y. Hand-grenade. No. 1,330,425; Feb. 10; v. 271; p. 233.

Bergman, Axel G., assignor to Leygrand & Company, Inc., trustee, New York, N. Y. Process and apparatus for forming casts. No. 1,335,475; Mar. 30; v. 272; p. 841.

Bergman, Axel G., assignor to Ordnance Engineering Corporation, New York, N. Y. Hand-grenade. No. 1,339,735; May 11; v. 274; p. 279.

Bergman, Axel G., assignor to Ordnance Engineering Corporation, New York, N. Y. Hand-grenade. No. 1,363,079; Dec. 21; v. 281; p. 513.

Bergman, Carl, Jr., West Hoboken, N. J., assignor to Eclipse Machine Company, Elmira, N. Y. Engine-starter. No. 1,330,232; Feb. 10; v. 271; p. 197.

Bergman, Simon, New York, N. Y. Carton for cups and similar articles. No. 1,346,792; July 13; v. 276; p. 352.

Bergman, Simon, New York, N. Y. Paper finger-bowl and other paper vessels. No. 1,362,385; Dec. 14; v. 281; p. 326.

Bergman, Sven R., Nahant, Mass., assignor to General Electric Company. Dynamo-electric machine. No. 1,334,831; Mar. 23; v. 272; p. 660.

Bergman, Sven R., Nahant, Mass., assignor to General Electric Company. Dynamo-electric machine. No. 1,334,832; Mar. 23; v. 272; p. 660.

Bergman, Sven R., Nahant, Mass., assignor to General Electric Company. Dynamo-electric machine. No. 1,340,004; May 11; v. 274; p. 329.

Bergman, Sven R., Nahant, Mass., assignor to General Electric Company. Dynamo-electric machine. No. 1,340,005; May 11; v. 274; p. 330.

Bergman, Sven R., Nahant, Mass., assignor to General Electric Company. Electric welding and reactor. No. 1,353,711; Sept. 21. v. 278; p. 487.

Bergmann, Conrad, Philadelphia, Pa. Cabinet. No. 1,339,842; May 11; v. 274; p. 299.

Bergmann, Frederic, Lyon, France. Eye-shield. No. 1,337,036; Apr. 13; v. 273; p. 318.

Bergquist, Gust. (See Barrett, Andrew J., assignor.)

Bergquist, Oscar T., Detroit, Minn. Sacking-truck. No. 1,330,835; Feb. 17; v. 271; p. 378.

Bergor, George R., *et al.* (See Bear, Claude A., assignor.)

Bergsten, John, New York, N. Y. Insole. No. 1,334,218; Mar. 16; v. 272; p. 497.

Bergsten, John, New York, N. Y. Brush. No. 1,360,077; Nov. 23; v. 280; p. 713.

Bergstrom, Alfred E., Savage, Mont. Incubator. No. 1,349,315; Aug. 10; v. 277; p. 283.

Bergstrom-Brewster Motor Company. (See Bergstrom, Cuthbert C., assignor.)

Bergstrom, Christian, Denver, Colo. Vehicle-spring. No. 1,329,695; Feb. 3; v. 271; p. 65.

Bergstrom, Cuthbert C., assignor to The Bergstrom-Brewster Motor Company, Denver, Colo. Stake-holder. No. 1,353,624; Sept. 21; v. 278; p. 470.

Bergstrom, Oscar, assignor to Handy Manufacturing Company, Chicago, Ill. Revolving case-clamp. No. 1,334,732; Mar. 23; v. 272; p. 641.

Bergstrom, Oscar, assignor to Handy Manufacturing Company, Chicago, Ill. Heavy squaring-clamp. No. 1,335,721; Apr. 6; v. 273; p. 4.

Bergstrom, Oscar, assignor to Handy Manufacturing Company, Chicago, Ill. Quick-acting frame-clamping machine. No. 1,342,891; June 8; v. 275; p. 304.

Bergstrom, Oscar, assignor to Handy Manufacturing Company, Chicago, Ill. Miter-frame clamp. No. 1,342,892; June 8; v. 275; p. 304.

Bergstrom, Oscar, assignor to Handy Manufacturing Company, Chicago, Ill. Chair-clamp. No. 1,348,148; Aug. 3; v. 277; p. 3.

Bergve, Einar, Notodden, assignor to Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Christiania, Norway. Decomposition of alkali-metal minerals. No. 1,346,365; July 13; v. 276; p. 266.

Bergve, Einar, Christiania, Norway, assignor to Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Christiania, Norway. Manufacture of reducing alkaline melts. No. 1,354,451; Sept. 28; v. 278; p. 679.

Bergve, Einar, Notodden, and O. Jensen, assignors to Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Christiania, Norway. Manufacture of concentrated nitric acid. No. 1,338,417; Apr. 27; v. 273; p. 718.

Bering, Robert E., Los Angeles, Calif. Casing-cutter. No. 1,358,818; Nov. 16; v. 280; p. 422.

Berk, Louis, Alstown, Wash. Wrench. No. 1,333,532; Mar. 9; v. 272; p. 308.

Berk, Louis, Alstown, Wash. Potato-grinder. No. 1,361,670; Dec. 7; v. 281; p. 139.

Berkeley, Laurence J., Racine, Wis., assignor to The P & M Company, Chicago, Ill. Rail-anchor. No. 1,329,360; Feb. 3; v. 271; p. 4.

Berkeley, Laurence J., assignor to Walker Manufacturing Company, Racine, Wis. Lifting-jack. No. 1,333,289; Mar. 9; v. 272; p. 253.

Berkeley, Laurence J., assignor to Hercules Manufacturing Company, Racine, Wis. Forging-machine. No. 1,337,430; Apr. 20; v. 273; p. 461.

Berkeley, Laurence J., assignor to Hercules Manufacturing Company, Racine, Wis. Spike-machine. No. 1,345,064; June 29; v. 275; p. 921.

Digitized by Google

Alphabetical list of patentees—Continued.

Berkeley, Laurence J., Racine, Wis., assignor to The P. & M. Company, Chicago, Ill. Rail-anchor. No. 1,356,688; Oct. 26; v. 279; p. 580.
Berkeley, Laurence J., Racine, Wis., assignor to The P. & M. Company, Chicago, Ill. Rail-anchor. No. 1,356,689; Oct. 26; v. 279; p. 580.
Berkeley, Laurence J., Racine, Wis., assignor to The P. & M. Company, Chicago, Ill. Rail-anchor. No. 1,356,690; Oct. 26; v. 279; p. 580.
Berkeley, Laurence J., Milwaukee, assignor to Hercules Manufacturing Company, Racine, Wis. Forging-machine roll. No. 1,360,261; Nov. 30; v. 280; p. 818.
Berkeley, Laurence J., and J. Reid, Jr., Racine, Wis., assignors to The P & M Company, Chicago, Ill. Rail-anchor. No. 1,355,302; Oct. 12; v. 279; p. 222.
Berkeley Light Corporation. (See Wood, William G., assignor.)
Berkeley Light Corporation. (See Wood and Meyer, assignors.)
Berkshire, William A., Ocheyedan, Iowa. Silo-brace. No. 1,345,985; July 6; v. 276; p. 130.
Berkstresser, Robert H., York, Pa. Time-controlled mechanism. No. 1,337,037; Apr. 13; v. 273; p. 313.
Berlin, Solomon J., Oxford, Colo. Cultivator and digger. No. 1,334,214; Mar. 16; v. 272; p. 497.
Berliner, Abraham. (See Berliner, Isidor, A., and S.)
Berliner, Edgar M., Montreal, Quebec, Canada. Making sound-records. No. 1,355,791; Oct. 12; v. 279; p. 316.
Berliner, Emile, assignor to Gyrocopter Limited, Washington, D. C. Helicopter or gyrocopter. No. 1,361,222; Dec. 7; v. 281; p. 48.
Berliner, Isidor, A., and S., Toronto, Ontario, Canada. Telephonic apparatus. No. 1,350,291; Aug. 24; v. 277; p. 591.
Berliner, Samuel. (See Berliner, Isidor, A., and S.)
Berman, Louis C. (See Santino, Salvatore, assignor.)
Bermes, John W. (See Patrick, H. E., Peterson, and Bermes.)
Bernard, Henrietta. (See Satzman, Abraham, assignor.)
Bernard, James L., Beaver, Pa. Fuel-oil storage and heating tank. No. 1,330,779; Feb. 17; v. 271; p. 868.
Bernard, Pierre J. H., Montreal, Quebec, Canada. Manufacturing insulators. No. 1,340,812; May 18; v. 274; p. 539.
Bernard, Pierre J. H., Montreal, Quebec, Canada. Manufacturing insulators. No. 1,340,813; May 18; v. 274; p. 539.
Bernard, Pierre J. H., Montreal, Quebec, Canada. Electric heater. No. 1,356,335; Oct. 19; v. 279; p. 464.
Bernard, Thomas E., Lakeview, Oreg. Wire-screen holding and dispensing receptacle. No. 1,353,016; Sept. 14; v. 278; p. 290.
Bernardin, Alfred L., Evansville, Ind. Bottle-cap. No. 1,355,446; Oct. 12; v. 279; p. 250.
Bernat, Raoul, Bordeaux, France. Heavy motor-tractor. No. 1,347,244; July 20; v. 276; p. 498.
Bernath, J. H., and E. C. Reynolds, Wauseon, Ohio. Transmission apparatus. No. 1,361,300; Dec. 7; v. 281; p. 63.
Bernath, Joseph, Merrill, Mich. Tongs. No. 1,338,065; Apr. 27; v. 273; p. 652.
Bernau, Friedrich. (See Bernau, Gottfrid J., assignor.)
Bernau, Gottfrid J., New York, N. Y., assignor of one-half to F. Bernau, Cöln-Kalk, Germany. Doll. No. 1,340,848; May 18; v. 274; p. 546.
Bernay, Henri, assignor, by mesne assignments, to F. W. Thurston, San Francisco, Calif. Drill. No. 1,355,793; Oct. 12; v. 279; p. 316.
Bernay, Henri, assignor, by mesne assignments, to Fred W. Thurston, San Francisco, Calif. Drill. No. 1,359,318; Nov. 16; v. 280; p. 518.
Bernay, Henri, assignor, by mesne assignments, to F. W. Thurston, San Francisco, Calif. Drill. No. 1,359,955; Nov. 23; v. 280; p. 690.
Bernays, Walter, St. Louis, Mo. Golf-club. No. 1,361,957; Dec. 14; v. 281; p. 242.
Berndt, Otto N., assignor to Lindsay Light Company, Chicago, Ill. Art of recovering thorium. No. 1,329,747; Feb. 3; v. 271; p. 75.
Berne, James P., *et al.* (See Shields, George F., assignor.)
Bernecker, George E., assignor to Standard Accessory Corporation, Milwaukee, Wis. Phonograph-lighting attachment. No. 1,352,779; Sept. 14; v. 278; p. 243.
Berner, Jesse S., *et al.* (See Downey, Richard F., assignor.)
Bernert, George, assignor to Bernert Manufacturing Company, Milwaukee, Wis. Conveyer. (Reissue.) No. 14,841; Apr. 20; v. 273; p. 568.
Bernert, George and J., assignors to Bernert Manufacturing Company, Milwaukee, Wis. Feed-drum for pneumatic elevators. No. 1,346,298; July 13; v. 276; p. 253.
Bernert, Jacob. (See Bernert, George and J.)
Bernert Manufacturing Company. (See Bernert, George, assignor.) (Reissue.)
Bernet, Joseph W., New London, Conn. Foot-operable impression throw-off. No. 1,350,272; Aug. 17; v. 277; p. 541.
Bernhard, Albert B., Columbus, Ohio. Internal-combustion engine. No. 1,345,065; June 29; v. 275; p. 921.
Bernhard, Jakob, Hasle, near Ruegsau, and A. Meister, Ruegsau, Switzerland. Pneumatic hammer. No. 1,346,166; July 13; v. 276; p. 227.
Bernhard, Richard, assignor to The Traylor Engineering & M'f'g Co., Allentown, Pa. Gyratory crusher. No. 1,336,015; Apr. 6; v. 273; p. 59.
Bernhardt, Hans, Milwaukee, Wis. Refrigerator-scale. No. 1,357,683; Nov. 2; v. 280; p. 91.
Bernheim, Eugene C., Southbridge, Mass. Eyeglasses. No. 1,347,072; July 20; v. 276; p. 465.
Bernier, Henry N., Iroquois Falls, Ontario, assignor of one-half to J. De Froy, Timmins, Canada. Lamp-burner. No. 1,329,222; Jan. 27; v. 270; p. 567.
Bernier, Henry N., St. Eugene, De Guigues, Quebec, assignor of one-half to J. De Froy, Timmins, Ontario, Canada. Funnel. No. 1,353,712; Sept. 21; v. 278; p. 487.
Bernier, Joseph J., Chartley, Mass. Separable cuff-button. No. 1,339,314; May 4; v. 274; p. 122.
Bernier, Joseph J., Chartley, Mass. Snap-fastener. No. 1,363,709; Dec. 28; v. 281; p. 675.
Bernsteen, A. E., *et al.* (See Shapiro, Herman, assignor.)
Bernstein Manufacturing Company. (See Ellsworth, Ross J., assignor.)
Bernstein, Peter, Boston, Mass. Portable gas-heater. No. 1,346,587; July 13; v. 276; p. 310.
Berntson, Bernhard M., Chicago, Ill. Flue-scraper. No. 1,336,673; Apr. 13; v. 273; p. 248.
Bernz, Otto, Newark, N. J. Cleaner for blow-torch nozzles and the like. No. 1,343,705; June 15; v. 275; p. 527.
Berold, Frederick H., Wyoming, Ohio. Forming curved printing-plates. No. 1,331,140; Feb. 17; v. 271; p. 436.
Berold, Frederick H., Wyoming, Ohio. Tripping mechanism for printing-presses. No. 1,357,945; Nov. 9; v. 280; p. 203.
Berquist, Henry A., St. Croix Falls, Wis. Tie and rail fastener. No. 1,329,879; Feb. 3; v. 271; p. 100.
Berrenberg, Reinold, Boston, Mass. Apparatus for producing high pressures. No. 1,346,165; July 13; v. 276; p. 226.
Berres, John F., Minneapolis, Minn. Lubricating-oil heater. No. 1,332,970; Mar. 9; v. 272; p. 204.
Berridge, Mason G., Dryden, Mich. Snowplow. No. 1,336,016; Apr. 6; v. 273; p. 59.
Berrigan, John J., Orange, N. J., assignor to Henry R. Worthington. Pressing apparatus. No. 1,336,841; Apr. 6; v. 273; p. 120.
Berrigan, John J., Orange, N. J., assignor to Henry R. Worthington, New York, N. Y. Filtering materials. No. 1,350,292; Aug. 24; v. 277; p. 591.
Berry, Alfred M., Woodhaven, N. Y., assignor to Intertype Corporation, Brooklyn, N. Y. Channel-entrance for typographical machines. No. 1,349,488; Aug. 10; v. 277; p. 317.
Berry, Arthur F., Ealing, England, assignor to General Electric Company. Electric heat-radiator. No. 1,330,576; Feb. 10; v. 271; p. 261.
Berry, Arthur F., Ealing, England, assignor to General Electric Company. Oil-cooled transformer. No. 1,331,089; Feb. 17; v. 271; p. 427.
Berry, Clarence C., Valley Park, Mo. Airship. No. 1,343,428; June 15; v. 275; p. 472.
Berry, Earl E., assignor to American Road Machinery Company, Inc., Kennett Square, Pa. Shaker-screen. No. 1,344,751; June 29; v. 275; p. 862.
Berry, Earl E., assignor to American Road Machinery Company, Inc., Kennett Square, Pa. Shaker-screen. No. 1,357,307; Nov. 2; v. 280; p. 21.
Berry, Edward R., Malden, Mass., assignor to General Electric Company. Explosion-arrester. No. 1,328,485; Jan. 20; v. 270; p. 400.
Berry, Francis E., San Jose, assignor of one-half to R. Brunn, San Francisco, and Walter Brunn, San Jose, Calif. Tractor. No. 1,360,078; Nov. 23; v. 280; p. 714.
Berry, Frank, *et al.* (See Olney, Lillian B., assignor.)
Berry, George W., Wolfeboro, N. H. Excelsior-cutting machine. No. 1,341,037; May 25; v. 274; p. 653.
Berry, Harry C., Spokane, Wash. Elevated railway. No. 1,361,809; Dec. 14; v. 281; p. 212.
Berry, Herbert H., London, England. Imitation fire. No. 1,336,500; Apr. 13; v. 273; p. 209.
Berry, Herbert H., London, England. Electric fire. No. 1,354,594; Oct. 5; v. 279; p. 29.
Berry, Herbert H., and J. W. Reid, London, England. Electric fire. No. 1,349,804; Aug. 17; v. 277; p. 451.
Berry, James M., Detroit, Mich. Demountable rim. No. 1,333,748; Mar. 16; v. 272; p. 410.
Berry, Lennah, Fairview, Mont. Reinforced wooden bowl. No. 1,357,940; Nov. 9; v. 280; p. 202.
Berry, Louis H., Minneapolis, Minn. Charging-bucket. No. 1,333,152; Mar. 9; v. 272; p. 287.
Berry, Louis P., Jr., Marion, Ark. Apparatus for sewage disposal. No. 1,337,431; Apr. 20; v. 273; p. 461.
Berry, Ora, Princeton, Ind. Automatic pump. No. 1,327,371; Jan. 6; v. 270; p. 91.
Berry, Ora, Princeton, Ind. Snowplow. No. 1,340,263; May 18; v. 274; p. 435.

Digitized by Google

Berge, Joseph, assignor to Champion Ignition Company, Flint, Mich. Reset mechanism. No. 1,358,817; Nov. 16; v. 280; p. 422.
Bergen, George B., assignor, by mesne assignments, to Autopoint Pencil Company, Chicago, Ill. Lead-pencil. No. 1,359,568; Nov. 23; v. 280; p. 613.
Bergen, Harry S., Toledo, Ohio, assignor, by mesne assignments, to Toledo Scale Company, Newark, N. J. Automatic scale with price and weight printing attachment. No. 1,347,572; July 27; v. 276; p. 621.
Bergen, Harry S., assignor to Toledo Scale Company, Toledo, Ohio. Weighing-scale. No. 1,360,172; Nov. 23; v. 280; p. 732.
Bergen, John C., New Brunswick, N. J. Bag. No. 1,349,654; Aug. 17; v. 277; p. 422.
Bergen, John F. (See Marcus, J., and Bergen.)
Bergendahl, Lewis J., Vallejo, Calif. Hair-cutter. No. 1,337,429; Apr. 20; v. 273; p. 461.
Bergendorf, Gottfrid, assignor to Rock Island Plow Company, Rock Island, Ill. Support for motors. No. 1,353,986; Sept. 28; v. 278; p. 585.
Berger, Charles F., Pelham, N. Y. Chalk-trough. No. 1,352,720; Sept. 14; v. 278; p. 231.
Berger, Charles F., Pelham, N. Y. Combination chalk-trough. No. 1,352,721; Sept. 14; v. 278; p. 231.
Berger, George O., Philadelphia, Pa. Testing apparatus. No. 1,343,611; June 15; v. 275; p. 508.
Berger, Isidore S., New York, N. Y. Tooth-shade guide. No. 1,327,306; Jan. 6; v. 270; p. 79.
Berger, John S. (See Sell and Berger.)
Berger, Joseph, Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine. No. 1,329,221; Jan. 27; v. 270; p. 567.
Berger, Joseph, Jr., Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine. (Reissue.) No. 14,813; Mar. 9; v. 272; p. 321.
Berger, Joseph, Jr., Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine. (Reissue.) No. 14,814; Mar. 9; v. 272; p. 321.
Berger, Joseph, Jr., Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Uniting fabric-sections. No. 1,349,711; Aug. 17; v. 277; p. 434.
Berger, Joseph, Jr., Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Uniting fabric-sections. No. 1,349,712; Aug. 17; v. 277; p. 434.
Berger Joseph, Jr., Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine. No. 1,356,334; Oct. 19; v. 279; p. 464.
Berger, Julius J., and J. Gardner, Union Hill, N. J. Mold for pneumatic tubes. No. 1,362,594; Dec. 21; v. 281; p. 418.
Berger Manufacturing Company. (See Hiller, T., and Myers, assignors.)
Berger, Otto R., assignor to R. J. Bischoff, Chicago, Ill. Cooking utensil. No. 1,341,731; June 1; v. 275; p. 23.
Berger, Samuel, Newark, N. J. Sink scoop or shovel. No. 1,353,307; Sept. 21; v. 278; p. 406.
Bergeron, Arthur J., New York, N. Y. Rope-lock for pulleys. No. 1,346,696; July 13; v. 276; p. 332.
Bergeron, Clovis, assignor of one-half to E. W. Singletary, Morganza, La. Sewing-machine attachment. No. 1,336,340; Apr. 6; v. 273; p. 120.
Bergeron, Lindor, Macamic, Quebec, Canada. Sleigh. No. 1,353,141; Sept. 21; v. 278; p. 374.
Bergey, Aaron E., Bazetta township, Trumbull county, Ohio. Mechanism for driving tools. No. 1,352,045; Sept. 7; v. 278; p. 64.
Bergey, Aaron E., Bazetta township, Trumbull county, Ohio. Mechanism for driving tools. No. 1,357,376; Nov. 2; v. 280; p. 33.
Berghaus, John H., Jr. (See Lamkin and Berghaus.)
Berghman, George H., Chicago, Ill. Skate-sharpener. No. 1,335,813; Apr. 6; v. 273; p. 21.
Berghman, George H., Chicago, Ill. Skate-sharpener. (Reissue.) No. 15,001; Dec. 14; v. 281; p. 365.
Bergius, Friedrich, Essen-on-the-Ruhr, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Hydrogenating carbon compounds. No. 1,342,790; June 8; v. 275; p. 284.
Berglus, Friedrich, Hanover, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Obtaining light hydrocarbons from heavy hydrocarbons. No. 1,344,671; June 29; v. 275; p. 847.
Bergland, Gunder O., Deerfield, Wis. Journal-box. No. 1,345,063; June 29; v. 275; p. 921.
Berglann, Christian J., Seattle, Wash. Stove. No. 1,343,341; June 15; v. 275; p. 455.
Berglind, Anders D., Klosterpossen, Skien, Norway. Apparatus for bleaching cellulose and like substances. No. 1,329,824; Feb. 3; v. 271; p. 90.
Berglof, Knut, Monessen, Pa. Annealing-furnace. No. 1,336,190; Apr. 6; v. 273; p. 92.
Berglund, Edward S. Trollhättan, assignor to S. Huldt, Stockholm, Sweden. Extraction of zinc. No. 1,331,740; Feb. 24; v. 271; p. 569.
Bergman, Axel G., assignor to Ordnance Engineering Corporation, New York, N. Y. Hand-grenade. No. 1,330,424; Feb. 10; v. 271; p. 233.
Bergman, Axel G., assignor to Ordnance Engineering Corporation, New York, N. Y. Hand-grenade. No. 1,330,425; Feb. 10; v. 271; p. 233.
Bergman, Axel G., assignor to Leygrand & Company, Inc., trustee, New York, N. Y. Process and apparatus for forming casts. No. 1,335,475; Mar. 30; v. 272; p. 841.
Bergman, Axel G., assignor to Ordnance Engineering Corporation, New York, N. Y. Hand-grenade. No. 1,339,735; May 11; v. 274; p. 279.
Bergman, Axel G., assignor to Ordnance Engineering Corporation, New York, N. Y. Hand-grenade. No. 1,363,079; Dec. 21; v. 281; p. 513.
Bergman, Carl, Jr., West Hoboken, N. J., assignor to Eclipse Machine Company, Elmira, N. Y. Engine-starter. No. 1,330,232; Feb. 10; v. 271; p. 197.
Bergman, Simon, New York, N. Y. Carton for cups and similar articles. No. 1,346,792; July 13; v. 276; p. 352.
Bergman, Simon, New York, N. Y. Paper finger-bowl and other paper vessels. No. 1,362,385; Dec. 14; v. 281; p. 326.
Bergman, Sven R., Nahant, Mass., assignor to General Electric Company. Dynamo-electric machine. No. 1,334,831; Mar. 23; v. 272; p. 660.
Bergman, Sven R., Nahant, Mass., assignor to General Electric Company. Dynamo-electric machine. No. 1,334,832; Mar. 23; v. 272; p. 660.
Bergman, Sven R., Nahant, Mass., assignor to General Electric Company. Dynamo-electric machine. No. 1,340,004; May 11; v. 274; p. 329.
Bergman, Sven R., Nahant, Mass., assignor to General Electric Company. Dynamo-electric machine. No. 1,340,005; May 11; v. 274; p. 330.
Bergman, Sven R., Nahant, Mass., assignor to General Electric Company. Electric welding and reactor. No. 1,353,711; Sept. 21. v. 278; p. 487.
Bergmann, Conrad, Philadelphia, Pa. Cabinet. No. 1,339,842; May 11; v. 274; p. 299.
Bergmann, Frederic, Lyon, France. Eye-shield. No. 1,337,036; Apr. 13; v. 273; p. 318.
Bergquist, Gust. (See Barrett, Andrew J., assignor.)
Bergquist, Oscar T., Detroit, Minn. Sacking-truck. No. 1,330,835; Feb. 17; v. 271; p. 378.
Bergor, George R., *et al.* (See Bear, Claude A., assignor.)
Bergsten, John, New York, N. Y. Insole. No. 1,334,213; Mar. 16; v. 272; p. 497.
Bergsten, John, New York, N. Y. Brush. No. 1,360,077; Nov. 23; v. 280; p. 713.
Bergstrom, Alfred E., Savage, Mont. Incubator. No. 1,349,315; Aug. 10; v. 277; p. 283.
Bergstrom-Brewster Motor Company. (See Bergstrom, Cuthbert C., assignor.)
Bergstrom, Christian, Denver, Colo. Vehicle-spring. No. 1,329,695; Feb. 3; v. 271; p. 65.
Bergstrom, Cuthbert C., assignor to The Bergstrom-Brewster Motor Company, Denver, Colo. Stake-holder. No. 1,353,624; Sept. 21; v. 278; p. 470.
Bergstrom, Oscar, assignor to Handy Manufacturing Company, Chicago, Ill. Revolving case-clamp. No. 1,334,732; Mar. 23; v. 272; p. 641.
Bergstrom, Oscar, assignor to Handy Manufacturing Company, Chicago, Ill. Heavy squaring-clamp. No. 1,335,721; Apr. 6; v. 273; p. 4.
Bergstrom, Oscar, assignor to Handy Manufacturing Company, Chicago, Ill. Quick-acting frame-clamping machine. No. 1,342,891; June 8; v. 275; p. 304.
Bergstrom, Oscar, assignor to Handy Manufacturing Company, Chicago, Ill. Miter-frame clamp. No. 1,342,892; June 8; v. 275; p. 304.
Bergstrom, Oscar, assignor to Handy Manufacturing Company, Chicago, Ill. Chair-clamp. No. 1,348,148; Aug. 3; v. 277; p. 3.
Bergve, Einar, Notodden, assignor to Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Christiania, Norway. Decomposition of alkali-metal minerals. No. 1,346,365; July 13; v. 276; p. 266.
Bergve, Einar, Christiania, Norway, assignor to Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Christiania, Norway. Manufacture of reducing alkaline melts. No. 1,354,451; Sept. 28; v. 278; p. 679.
Bergve, Einar, Notodden, and O. Jensen, assignors to Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Christiania, Norway. Manufacture of concentrated nitric acid. No. 1,338,417; Apr. 27; v. 273; p. 718.
Bering, Robert E., Los Angeles, Calif. Casing-cutter. No. 1,358,818; Nov. 16; v. 280; p. 422.
Berk, Louis, Alstown, Wash. Wrench. No. 1,333,532; Mar. 9; v. 272; p. 308.
Berk, Louis, Alstown, Wash. Potato-grinder. No. 1,361,670; Dec. 7; v. 281; p. 139.
Berkeley, Laurence J., Racine, Wis., assignor to The P & M Company, Chicago, Ill. Rail-anchor. No. 1,329,360; Feb. 3; v. 271; p. 4.
Berkeley, Laurence J., assignor to Walker Manufacturing Company, Racine, Wis. Lifting-jack. No. 1,333,289; Mar. 9; v. 272; p. 253.
Berkeley, Laurence J., assignor to Hercules Manufacturing Company, Racine, Wis. Forging-machine. No. 1,337,430; Apr. 20; v. 273; p. 461.
Berkeley, Laurence J., assignor to Hercules Manufacturing Company, Racine, Wis. Spike-machine. No. 1,345,064; June 29; v. 275; p. 921.

Digitized by Google

Berkeley, Laurence J., Racine, Wis., assignor to The P. & M. Company, Chicago, Ill. Rail-anchor. No. 1,356,688; Oct. 26; v. 279; p. 580.
Berkeley, Laurence J., Racine, Wis., assignor to The P. & M. Company, Chicago, Ill. Rail-anchor. No. 1,356,689; Oct. 26; v. 279; p. 580.
Berkeley, Laurence J., Racine, Wis., assignor to The P. & M. Company, Chicago, Ill. Rail-anchor. No. 1,356,690; Oct. 26; v. 279; p. 580.
Berkeley, Laurence J., Milwaukee, assignor to Hercules Manufacturing Company, Racine, Wis. Forging-machine roll. No. 1,360,261; Nov. 30; v. 280; p. 818.
Berkeley, Laurence J., and J. Reid, Jr., Racine, Wis., assignors to The P & M Company, Chicago, Ill. Rail-anchor. No. 1,355,302; Oct. 12; v. 279; p. 222.
Berkeley Light Corporation. (See Wood, William G., assignor.)
Berkeley Light Corporation. (See Wood and Meyer, assignors.)
Berkshire, William A., Ocheyedan, Iowa. Silo-brace. No. 1,345,985; July 6; v. 276; p. 130.
Berkstresser, Robert H., York, Pa. Time-controlled mechanism. No. 1,337,037; Apr. 13; v. 273; p. 318.
Berlin, Solomon J., Oxford, Colo. Cultivator and digger. No. 1,334,214; Mar. 16; v. 272; p. 497.
Berliner, Abraham. (See Berliner, Isidor, A., and S.)
Berliner, Edgar M., Montreal, Quebec, Canada. Making sound-records. No. 1,355,791; Oct. 12; v. 279; p. 316.
Berliner, Emile, assignor to Gyrocopter Limited, Washington, D. C. Helicopter or gyrocopter. No. 1,361,222; Dec. 7; v. 281; p. 48.
Berliner, Isidor, A., and S., Toronto, Ontario, Canada. Telephonic apparatus. No. 1,350,291; Aug. 24; v. 277; p. 591.
Berliner, Samuel. (See Berliner, Isidor, A., and S.)
Berman, Louis C. (See Santino, Salvatore, assignor.)
Bermes, John W. (See Patrick, H. E., Peterson, and Bermes.)
Bernard, Henrietta. (See Satzman, Abraham, assignor.)
Bernard, James L., Beaver, Pa. Fuel-oil storage and heating tank. No. 1,330,779; Feb. 17; v. 271; p. 368.
Bernard, Pierre J. H., Montreal, Quebec, Canada. Manufacturing insulators. No. 1,340,812; May 18; v. 274; p. 539.
Bernard, Pierre J. H., Montreal, Quebec, Canada. Manufacturing insulators. No. 1,340,813; May 18; v. 274; p. 539.
Bernard, Pierre J. H., Montreal, Quebec, Canada. Electric heater. No. 1,356,335; Oct. 19; v. 279; p. 464.
Bernard, Thomas E., Lakeview, Oreg. Wire-screen holding and dispensing receptacle. No. 1,353,016; Sept. 14; v. 278; p. 290.
Bernardin, Alfred L., Evansville, Ind. Bottle-cap. No. 1,355,446; Oct. 12; v. 279; p. 260.
Bernat, Raoul, Bordeaux, France. Heavy motor-tractor. No. 1,347,244; July 20; v. 276; p. 498.
Bernath, J. H., and E. C. Reynolds, Wauseon, Ohio. Transmission apparatus. No. 1,361,300; Dec. 7; v. 281; p. 63.
Bernath, Joseph, Merrill, Mich. Tongs. No. 1,338,065; Apr. 27; v. 273; p. 652.
Bernau, Friedrich. (See Bernau, Gottfrid J., assignor.)
Bernau, Gottfrid J., New York, N. Y., assignor of one-half to F. Bernau, Cöln-Kalk, Germany. Doll. No. 1,340,848; May 18; v. 274; p. 546.
Bernay, Henri, assignor, by mesne assignments, to F. W. Thurston, San Francisco, Calif. Drill. No. 1,355,793; Oct. 12; v. 279; p. 316.
Bernay, Henri, assignor, by mesne assignments, to Fred W. Thurston, San Francisco, Calif. Drill. No. 1,359,318; Nov. 16; v. 280; p. 518.
Bernay, Henri, assignor, by mesne assignments, to F. W. Thurston, San Francisco, Calif. Drill. No. 1,359,955; Nov. 23; v. 280; p. 690.
Bernays, Walter, St. Louis, Mo. Golf-club. No. 1,361,957; Dec. 14; v. 281; p. 242.
Berndt, Otto N., assignor to Lindsay Light Company, Chicago, Ill. Art of recovering thorium. No. 1,329,747; Feb. 3; v. 271; p. 75.
Berne, James P., *et al.* (See Shields, George F., assignor.)
Bernecker, George E., assignor to Standard Accessory Corporation, Milwaukee, Wis. Phonograph-lighting attachment. No. 1,352,770; Sept. 14; v. 278; p. 243.
Berner, Jesse S., *et al.* (See Downey, Richard F., assignor.)
Bernert, George, assignor to Bernert Manufacturing Company, Milwaukee, Wis. Conveyer. (Reissue.) No. 14,841; Apr. 20; v. 273; p. 568.
Bernert, George and J., assignors to Bernert Manufacturing Company, Milwaukee, Wis. Feed-drum for pneumatic elevators. No. 1,346,293; July 13; v. 276; p. 253.
Bernert, Jacob. (See Bernert, George and J.)
Bernert Manufacturing Company. (See Bernert, George, assignor.) (Reissue.)
Bernet, Joseph W., New London, Conn. Foot-operable-impression throw-off. No. 1,350,272; Aug. 17; v. 277; p. 541.
Bernhard, Albert B., Columbus, Ohio. Internal-combustion engine. No. 1,345,065; June 29; v. 275; p. 921.
Bernhard, Jakob, Hasle, near Ruegsau, and A. Meister, Ruegsau, Switzerland. Pneumatic hammer. No. 1,346,166; July 13; v. 276; p. 227.
Bernhard, Richard, assignor to The Traylor Engineering & M'f'g Co., Allentown, Pa. Gyratory crusher. No. 1,336,015; Apr. 6; v. 273; p. 59.
Bernhardt, Hans, Milwaukee, Wis. Refrigerator-scale. No. 1,357,683; Nov. 2; v. 280; p. 91.
Bernheim, Eugene C., Southbridge, Mass. Eyeglasses. No. 1,347,072; July 20; v. 276; p. 465.
Bernier, Henry N., Iroquois Falls, Ontario, assignor of one-half to J. De Froy, Timmins, Canada. Lamp-burner. No. 1,329,222; Jan. 27; v. 270; p. 567.
Bernier, Henry N., St. Eugene, De Guigues, Quebec, assignor of one-half to J. De Froy, Timmins, Ontario, Canada. Funnel. No. 1,353,712; Sept. 21; v. 278; p. 487.
Bernier, Joseph J., Chartley, Mass. Separable cuff-button. No. 1,339,314; May 4; v. 274; p. 122.
Bernier, Joseph J., Chartley, Mass. Snap-fastener. No. 1,363,709; Dec. 28; v. 281; p. 675.
Bernsteen, A. E., *et al.* (See Shapiro, Herman, assignor.)
Bernstein Manufacturing Company. (See Ellsworth, Ross J., assignor.)
Bernstein, Peter, Boston, Mass. Portable gas-heater. No. 1,346,587; July 13; v. 276; p. 310.
Berntson, Bernhard M., Chicago, Ill. Flue-scraper. No. 1,336,673; Apr. 13; v. 273; p. 243.
Bernz, Otto, Newark, N. J. Cleaner for blow-torch nozzles and the like. No. 1,343,705; June 15; v. 275; p. 527.
Berold, Frederick H., Wyoming, Ohio. Forming curved printing-plates. No. 1,331,140; Feb. 17; v. 271; p. 436.
Berold, Frederick H., Wyoming, Ohio. Tripping mechanism for printing-presses. No. 1,357,945; Nov. 9; v. 280; p. 203.
Berquist, Henry A., St. Croix Falls, Wis. Tie and rail fastener. No. 1,329,879; Feb. 3; v. 271; p. 100.
Berrenberg, Reinold, Boston, Mass. Apparatus for producing high pressures. No. 1,346,165; July 13; v. 276; p. 226.
Berres, John F., Minneapolis, Minn. Lubricating-oil heater. No. 1,332,970; Mar. 9; v. 272; p. 204.
Berridge, Mason G., Dryden, Mich. Snowplow. No. 1,336,016; Apr. 6; v. 273; p. 59.
Berrigan, John J., Orange, N. J., assignor to Henry R. Worthington. Pressing apparatus. No. 1,336,841; Apr. 6; v. 273; p. 120.
Berrigan, John J., Orange, N. J., assignor to Henry R. Worthington, New York, N. Y. Filtering materials. No. 1,350,292; Aug. 24; v. 277; p. 591.
Berry, Alfred M., Woodhaven, N. Y., assignor to Intertype Corporation, Brooklyn, N. Y. Channel-entrance for typographical machines. No. 1,349,488; Aug. 10; v. 277; p. 317.
Berry, Arthur F., Ealing, England, assignor to General Electric Company. Electric heat-radiator. No. 1,330,576; Feb. 10; v. 271; p. 261.
Berry, Arthur F., Ealing, England, assignor to General Electric Company. Oil-cooled transformer. No. 1,331,089; Feb. 17; v. 271; p. 427.
Berry, Clarence C., Valley Park, Mo. Airship. No. 1,343,428; June 15; v. 275; p. 472.
Berry, Earl E., assignor to American Road Machinery Company, Inc., Kennett Square, Pa. Shaker-screen. No. 1,344,751; June 29; v. 275; p. 862.
Berry, Earl E., assignor to American Road Machinery Company, Inc., Kennett Square, Pa. Shaker-screen. No. 1,357,307; Nov. 2; v. 280; p. 21.
Berry, Edward R., Malden, Mass., assignor to General Electric Company. Explosion-arrester. No. 1,328,485; Jan. 20; v. 270; p. 400.
Berry, Francis E., San Jose, assignor of one-half to R. Brunn, San Francisco, and Walter Brunn, San Jose, Calif. Tractor. No. 1,360,078; Nov. 23; v. 280; p. 714.
Berry, Frank, *et al.* (See Olney, Lillian B., assignor.)
Berry, George W., Wolfeboro, N. H. Excelsior-cutting machine. No. 1,341,037; May 25; v. 274; p. 653.
Berry, Harry C., Spokane, Wash. Elevated railway. No. 1,361,809; Dec. 14; v. 281; p. 212.
Berry, Herbert H., London, England. Imitation fire. No. 1,336,500; Apr. 13; v. 273; p. 209.
Berry, Herbert H., London, England. Electric fire. No. 1,354,594; Oct. 5; v. 279; p. 29.
Berry, Herbert H., and J. W. Reid, London, England. Electric fire. No. 1,349,804; Aug. 17; v. 277; p. 451.
Berry, James M., Detroit, Mich. Demountable rim. No. 1,333,748; Mar. 16; v. 272; p. 410.
Berry, Lennah, Fairview, Mont. Reinforced wooden bowl. No. 1,357,940; Nov. 9; v. 280; p. 202.
Berry, Louis H., Minneapolis, Minn. Charging-bucket. No. 1,338,152; Mar. 9; v. 272; p. 237.
Berry, Louis P., Jr., Marion, Ark. Apparatus for sewage disposal. No. 1,337,431; Apr. 20; v. 273; p. 461.
Berry, Ora, Princeton, Ind. Automatic pump. No. 1,327,371; Jan. 6; v. 270; p. 91.
Berry, Ora, Princeton, Ind. Snowplow. No. 1,340,263; May 18; v. 274; p. 435.

Digitized by Google

Berry, Reni S., and W. H. McGee, Los Angeles, Calif.; said Berry assignor to said McGee. Hairpin. No. 1,360,614; Nov. 30; v. 280; p. 888.
Berry, Robert C., Indianapolis, Ind. Carbon-removing means for internal-combustion engines. No. 1,339,014; May 4; v. 274; p. 67.
Berry, William H., Chester, Pa. Feed-water regulator. No. 1,340,365; May 18; v. 274; p. 455.
Berry, William O., Caro, Mich. Clevis. No. 1,330,836; Feb. 17; v. 271; p. 378.
Berry, William O., assignor of one-half to W. F. Wallis, Caro, Mich. Coupling device. No. 1,353,713; Sept. 21; v. 278; p. 488.
Berryhill, Samuel A., and I. W. Woolley, Charlotte, N. C. Automobile-lock. No. 1,343,807; June 15; v. 275; p. 547.
Bersin, Albert, Brooklyn, and E. Scheyer, New York, N. Y. Embroidering-machine. No. 1,344,611; June 29; v. 275; p. 835.
Berst, Charles B., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical measuring instrument. No. 1,335,152; Mar. 30; v. 272; p. 782.
Bersted, Martin C., Chicago, Ill. Cover-support for phonographs. No. 1,361,223; Dec. 7; v. 281; p. 48.
Bertels, Charles E., Trucksville, Pa. Compound adjustable gear-wheel. No. 1,354,717; Oct. 5; v. 279; p. 55.
Berthelot, Charles, Paris, France. Oven with regenerators. No. 1,340,104; May 11; v. 274; p. 348.
Berthelot, Charles, Paris, France. Oven with regenerator. No. 1,361,671; Dec. 7; v. 281; p. 139.
Berthelote, Joseph T., Havre, Mont. Animal-exterminator. No. 1,328,117; Jan. 13; v. 270; p. 293.
Berthold, Edward E., *et al.* (See Corlett, Robert S., assignor.)
Berthold, Gustave W., *et al.* (See Corlett, Robert S., assignor.)
Berthon Paul. (See Radisson and Berthon.)
Berthon, Paul. (See Radisson, A., and Berthon.)
Bertrand, Frederic E., Lynn, Mass., and P. J. Wentworth, Newport, Ky., assignors, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Shoe-beating machine. No. 1,331,797; Feb. 24; v. 271; p. 580.
Bertrand, Frederic E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sole-fitting machine. No. 1,350,354; Aug. 24; v. 277; p. 604.
Bertrand, Frederic E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sewing-machine. No. 1,360,262; Nov. 30; v. 280; p. 819.
Bertrand, Frederic J., San Francisco, Calif. Combined Thorn Stripper and Cutter. No. 1,359,148; Nov. 16; v. 280; p. 484.
Bertschinger, Edward, College Point, assignor to American Hard Rubber Co., New York, N. Y. Buffing-wheel hood. No. 1,357,308; Nov. 2; v. 280; p. 21.
Bery, Henry J., assignor of one-half to E. S. Bryant, Detroit, Mich. Compressor. No. 1,331,233; Feb. 17; v. 271; p. 453.
Bery, Henry J., assignor of one-half to E. S. Bryant, Detroit, Mich. Valve. No. 1,334,073; Mar. 16; v. 272; p. 471.
Beshara, John G., Lawrence, Mass. Hair-cutting machine. No. 1,359,020; Nov. 16; v. 280; p. 461.
Beshenich, Matija, Beatty, Pa. Flying-machine. No. 1,361,810; Dec. 14; v. 281; p. 213.
Beshenich, Matija, Beatty, assignor of one-fourth to J. Tirodor and one-fourth to M. Mohanec, Greensburg, Pa. Non-refillable bottle. No. 1,327,133; Jan. 6; v. 270; p. 47.
Beskow, Bernhard M. (See Thomas, M. A., and Beskow.)
Beskow, Bernhard M., Lake George, N. Y. Electric toaster. No. 1,332,879; Mar. 9; v. 272; p. 186.
Beskow, Bernhard M., Lake George, N. Y. Golf stroke indicator. No. 1,358,698; Nov. 16; v. 280; p. 398.
Bessett, Elmer E., Waterloo, Quebec, Canada. Mop. No. 1,344,112; June 22; v. 275; p. 671.
Bessière, Gustave, Neuilly-sur-Seine, France. Projectile. No. 1,327,372; Jan. 6; v. 270; p. 91.
Bessiron, Adolphe. (See Dulac, F. C., Vagnot, and Bessiron.)
Besson, Marcel B., New York, N. Y. Comb. No. 1,330,675; Feb. 10; v. 271; p. 280.
Bessy, Peter F., Whiting, Ind. Magneto. No. 1,361,436; Dec. 7; v. 281; p. 92.
Best, Annie H., Brooklyn, assignor to W. N. Best, Inc., New York, N. Y. Burner. No. 1,351,550; Aug. 31; v. 277; p. 901.
Best, Clarence L., Oakland, assignor to The Holt Manufacturing Company, Stockton, Calif. Tractor-chain. No. 1,356,958; Oct. 26; v. 279; p. 632.
Best Electric Company. (See Kennedy, John J., assignor.)
Best, John, Pittsburgh, Pa. Nut-lock. No. 1,363,710; Dec. 28; v. 281; p. 675.
Best, John H., Camp Cody, N. Mex. Wire-stretcher. No. 1,345,310; June 29; v. 275; p. 969.
Best, Millard W., Wentworth, Ontario, Canada. Weather stripping for windows. No. 1,347,672; July 27; v. 276; p. 640.
Best, W. N., Inc. (See Best, Annie H., assignor.)
Best, William N., Brooklyn, N. Y. System for supplying liquid fuel to burners. No. 1,357,309; Nov. 2; v. 280; p. 21.
Best, William N., assignor of one-fourth to C. Wupper, Brooklyn, N. Y. Signal-lamp. No. 1,343,899; June 22; v. 275; p. 630.
Beste, Herman C., Baltimore, Md. Means for applying crown-seals. No. 1,341,163; May 25; v. 274; p. 678.
Bestwall Manufacturing Company. (See Armstrong, Morgan K., assignor.)
Betan Company, The. (See Coulter, Holbrook W., assignor.)
Betchel, George W., Spokane, Wash. Swimming appliance. No. 1,342,619; June 8; v. 275; p. 249.
Betcke, C. F., *et al.* (See Bonney, Bick R., assignor.)
Bethenod, Joseph F. J., and E. F. Girardeau, Paris, France. Spark-gap used in wireless telegraphy. No. 1,333,789; Mar. 16; v. 272; p. 418.
Bethke, Leo, assignor to Chain Belt Company, Milwaukee, Wis. Sprocket-chain. No. 1,338,808; May 4; v. 274; p. 30.
Bethlehem Shipbuilding Corporation. (See Essner, Eugene F., assignor.)
Bethlehem Shipbuilding Corporation. (See Simpson, William L., assignor.)
Bethlehem Shipbuilding Corporation. (See Warriner, Robert, assignor.)
Bethlehem Steel Company. (See Fulda, Edward, assignor.)
Bethlehem Steel Company. (See Lachman, Laurence S., assignor.)
Bethlehem Steel Company. (See Lachman, Maurice, assignor.)
Bethlehem Steel Company. (See Lukens, William L., assignor.)
Bethlehem Steel Company. (See Sullivan, F. A., and Lukens, assignors.)
Bettcher Stamping and Manufacturing Company. (See Bump, Edward D., assignor.)
Bettendorf Company, The. (See Clasen, Claus J. W., assignor.)
Bettenga, Creno P., Parkersburgh, Iowa. Poultry-waterer. No. 1,354,943; Oct. 5; v. 279; p. 98.
Bettger, Christian, Bremen, N. D. Clevis. No. 1,340,105; May 11; v. 274; p. 348.
Bettiker, Samuel C., Warren, Ohio. Moisture-proof mat. No. 1,356,593; Oct. 26; v. 279; p. 561.
Bettinger, Emma, Boonville, Ind. Hose-supporter. No. 1,362,556; Dec. 14; v. 281; p. 360.
Betts, Albert, *et al.* (See Tullis, John T., assignor.)
Betts, Albert R., and P. J. Goke, assignors to The Cincinnati Coffin Company, Cincinnati, Ohio. Casket-handle. No. 1,344,855; June 29; v. 275; p. 882.
Betts, Arthur L. (See Davis and Betts.)
Betz, Arthur. (See Myers, Dimp, assignor.)
Betz, Charles A., Jersey City, N. J. Sheet-metal door or partition construction. No. 1,343,545; June 15; v. 275; p. 495.
Betz, Charles F., St. Louis, Mo. Pastry-feeding mechanism for pastry-cone machines. No. 1,347,073; July 20; v. 276; p. 466.
Betz, William G., Buffalo, N. Y. Music-roll for pneumatic musical instruments. No. 1,357,214; Nov. 2; v. 280; p. 3.
Betz, William G., Buffalo, N. Y., assignor to Straube Piano Company, Hammond, Ind. Pneumatic action for pianos. No. 1,335,476; Mar. 30; v. 272; p. 841.
Betz, William G., Buffalo, N. Y., assignor to Straube Piano Company, Hammond, Ind. Music-roll-controlling mechanism. No. 1,344,574; June 22; v. 275; p. 763.
Betzoldt, Theodore C., *et al.* (See Hadrich, George, assignor.)
Beudet, Maurice, Lyon, assignor to Societe Chimique des Usines du Rhone, Anciennement Gilliard, P. Monnet et Cartier, Paris, France. Manufacture of ethylidene diacetate. No. 1,351,990; Sept. 7; v. 278; p. 55.
Beugler, Chas. E., *et al.* (See Coates, Frank E., assignor.)
Beurrier, Aléxis, E. Bigourdan, and L. Lacoin, Paris, France. Flying-machine with revolving wings. No. 1,350,982; Aug. 24; v. 277; p. 725.
Beust, Cecil J. (See Bubar, H. H., and Beust.)
Beutler, Oswald H., South Bend, Ind. Antiskid-chain repair-link. No. 1,338,851; May 4; v. 274; p. 37.
Bevan, Alexander, Providence, R. I. Envelop-sealer. No. 1,344,375; June 22; v. 275; p. 723.
Bevan, William W., Melrose, and C. E. Clarke, Winthrop, Mass. Automatic paper-cup-forming machine. No. 1,339,315; May 4; v. 274; p. 122.
Bever, Charles J., Hale J. Stratton, Rowdon, and E. A. Claremont, High Legh, England. Lapping-machine for covering electric conductors. No. 1,330,050; Feb. 10; v. 271; p. 163.
Bevier, Henry R., assignor to Johnson Automatic Sealer Co., Ltd., Battle Creek, Mich. Wrapping-machine. No. 1,329,069; Jan. 27; v. 270; p. 538.
Bevier, Henry R., assignor to Johnson Automatic Sealer Co. Ltd., Battle Creek, Mich. Carbon-sealing machine. No. 1,332,196; Mar. 2; v. 272; p. 4.
Bevin Brothers Manufacturing Company. (See Moard, Eric, assignor.)

Digitized by Google

Alphabetical list of patentees—Continued.

Bevin, William S. H., and J. S. Rawsthorne, Liverpool, England. Mixing apparatus for granular, powdered, or like material. No. 1,328,486; Jan. 20; v. 270; p. 400.
Bewan, James O., Roanoke, Ala. Thermos-tank and valve therefor. No. 1,327,693; Jan. 13; v. 270; p. 213.
Bewan, James O., Augusta, Ga. Thermos-urn. No. 1,358,355; Nov. 9; v. 280; p. 285.
Bewan, James O., Miami, Fla. Automatic water-bucket. No. 1,358,357; Nov. 9; v. 280; p. 285.
Bews, Wesley G., Tacoma, Wash. Measuring device. No. 1,332,158; Feb. 24; v. 271; p. 647.
Beyer, Henry A., Corona, and C. A. Kohrer, Middle Village, assignors to Paragon Can & Cap Company, Inc., Brooklyn, N. Y. Band forming and applying machine. No. 1,333,377; Mar. 9; v. 272; p. 279.
Beyer, Herman E., New York, N. Y., and W. G. Hall, Honolulu, Hawaii, assignors to Ingersoll-Rand Company, Jersey City, N. J. Rectifier and condenser. No. 1,352,648; Sept. 14; v. 278; p. 216.
Beynon, John H., Ontario, Calif. Atomizer. No. 1,340,433; May 18; v. 274; p. 468.
Beyl, Emil A., Minneapolis, Minn. Friction-clutch. No. 1,330,931; Feb. 17; v. 271; p. 397.
Beymer, Walter D., Chicago, Ill. Billing-form. No. 1,335,420; Mar. 30; v. 272; p. 831.
Biach, Ludwig K., New Haven, Conn. Bleaching apparatus. No. 1,363,223; Dec. 28; v. 281; p. 581.
Biagini, Ray. (See Di Grazia and Biakini.)
Bibb, Dandridge H., Aldwych, London, England. Briquet-molding machine. No. 1,347,361; July 20; v. 276; p. 522.
Bibb, Dandridge H., Aldwych, London, England. Molding-machine. No. 1,357,141; Oct. 26; v. 279; p. 668.
Bibb, George F., Troy, N. Y. Combined coal and gas range. No. 1,348,078; July 27; v. 276; p. 722.
Bibb, Pearl M., Minden, W. Va. Rail-bender. No. 1,348,535; Aug. 3; v. 277; p. 78.
Bibby, James, and J. O. Boving, assignors to Electro-Metals Limited, London, England. Electric blast-furnace. No. 1,336,017; Apr. 6; v. 273; p. 59.
Bick, Otto G., assignor to Western Stamping Company, St. Louis, Mo. Skin-stretcher. No. 1,363,449; Dec. 28; v 281; p. 624.
Bickel, Ackert, Kansas City, Mo. Apparatus for concrete work. No. 1,363,304; Dec. 28; v. 281; p. 597.
Bickel, Frederick L., Ivyland, Pa. Apparatus for drying hosiery and the like. No. 1,344,612; June 29; v. 275; p. 836.
Bickel, Frederick L., Ivyland, Pa. Dyeing-machine. No. 1,344,788; June 29; v. 275; p. 870.
Bickel, James T., Mountain View, Mo. Lock and latch. No. 1,341,038; May 25; v. 274; p. 654.
Bickerton, George W., Youngstown, Ohio. Window-guard. No. 1,330,932; Feb. 17; v. 271; p. 397.
Bickhart, Franklin R., assignor to A. H. Lyons, Philadelphia, Pa. Battery-grid. No. 1,343,957; June 22; v. 275; p. 642.
Bickings, William A., Detroit, Mich. Puzzle. No. 1,349,937; Aug. 17; v. 277; p. 476.
Bickle, William R., *et al.*, executor. (See King, George H.)
Bickley, Everett H., Southbridge, Mass. Means employed in production and material control systems. No. 1,350,955; Aug. 24; v. 277; p. 720.
Bickley, Ross M., and E. J. Mason, assignors to Heyl & Patterson, Incorporated, Pittsburgh, Pa. Feeding apparatus for coke-wharves. No. 1,333,378; Mar. 9; v. 272; p. 280.
Biddle, Benjamin J., Montville, N. J. Removable bottom for cooking utensils. No. 1,345,119; June 29; v. 275; p. 932.
Biddle, George L., Belmar, N. J. Ventilator. No. 1,331,950; Feb. 24; v. 271; p. 608.
Biddle, William C., *et al.* (See Buckley, Arthur H., assignor.)
Biddlecom, Roy W., *et al.* (See Dobbins, George R., assignor.)
Biddlecom, Roy W., assignor to L. B. Girard, Los Angeles, Calif. Fabric-clamp. No. 1,351,551; Aug. 31; v. 277; p. 901.
Biddison, Pascal M., Columbus, and H. T. Boyd, Homer, Ohio. Distilling petroleum. No. 1,345,740; July 6 v. 276; p. 80.
Bidstrup, Daniel M. (See Folker, H. S., and Bidstrup.)
Bidwell, George L., Riegelsville, Pa. Hard-stock whipper. No. 1,352,866; Sept. 14; v. 278; p. 260.
Bidwell, George L., Riegelsville, Pa. Beater-roll. No. 1,362,219; Dec. 14; v. 281; p. 295.
Bidykoffer, George W. (See Peoples and Bidykoffer.)
Biebinger, David A. (See Davis, F. E., and Biebinger.)
Biedenkopf, Edward J. (See Johnson, L. D., and Biedenkopf.)
Biegacki, Adolph J., Cleveland, Ohio. Door or window fastener. No. 1,354,876; Oct. 5; v. 279; p. 86.
Bielawski, Ignatz, Detroit, Mich. Rail-tie. No. 1,357,941; Nov. 9; v. 280; p. 202.
Bieler, Otto R. (See Hughes, W., and Bieler.)
Bielitz, Frederick W., Jersey City, N. J. Safety device for use in cleaning windows. No. 1,343,546; June 15; v. 275; p. 495.
Bierbaum, Christopher H., Buffalo, N. Y. Making lubricants. No. 1,340,316; May 18; v. 274; p. 445.
Bierbower, Richard C., assignor to Testall Electric Manufacturing Co., San Antonio, Tex. Electrical testing device. No. 1,335,646; Mar. 30; v. 272; p. 873.
Bierbower, Richard C., assignor to Testall Electric Manufacturing Co., San Antonio, Tex. Electrical testing device. No. 1,335,647; Mar. 30; v. 272; p. 873.
Bierbower, Richard C., assignor to Testall Electric Manufacturing Co., San Antonio, Tex. Electrical testing device. No. 1,349,655; Aug. 17; v. 277; p. 423.
Bierbower, Richard C., assignor to Testall Electric Manufacturing Co., San Antonio, Tex. Electrical testing device. No. 1,349,656; Aug. 17; v. 277; p. 423.
Bieri, Paul, Geneva, Switzerland. Automatic paper-layer for printing-machines. No. 1,331,977; Feb. 24; v. 271; p. 614.
Biernat, Carl, Glasford, Ill. Mining-drill. No. 1,354,944; Oct. 5; v. 279; p. 99.
Biette, Henry C., assignor of one-half to J. Thomson and one-half to P. C. Wasasler, Buffalo, N. Y. Combined coffee-percolator and tea-steeper. No. 1,347,142; July 20; v. 276; p. 478.
Biette, Henry C., Pittsburgh, Pa. Percolator. No. 1,362,522; Dec. 14; v. 281; p. 353.
Bifiex Products Company. (See Pancoast, W. G., and Grotenhuis, assignors.)
Big Four Wheel Company. (See Jessen, Arnold H., assignor.)
Big Indian Copper Company, *et al.* (See Christensen, Niels C., assignor.)
Bigelow, George W., New Haven, Conn. Damper-regulator. No. 1,340,106; May 11; v. 274; p. 349.
Bigelow, William H., Chicago, Ill. Refrigerating-concentrator for fruit-juices. No. 1,330,160; Feb. 10; v. 271; p. 184.
Biggert, Florence C., Jr., Crafton, assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Manipulator for plates and the like. No. 1,340,594; May 18; v. 274; p. 499.
Biggert, Florence C., Jr., Crafton, assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Manipulator for shear-tables. No. 1,340,595; May 18; v. 274; p. 499.
Biggs, George B., Baltimore, Md. Beehive attachment. No. 1,357,832; Nov. 2; v. 280; p. 121.
Biggs-Watterson Co., The. (See Wertman, Milton A., assignor.)
Bigney, Sidney O., Attleboro, Mass. Belt-buckle. No. 1,360,360; Nov. 30; v. 280; p. 837.
Bigourdan, Edouard. (See Beurrier, A., Bigourdan, and Lacoin.)
Bigoney, Thomas W., New York, N. Y. Container and making same. No. 1,327,190; Jan. 6; v. 270; p. 58.
Bijur, Joseph, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company. Electrical apparatus. No. 1,330,618; Feb. 10; v. 271; p. 269.
Bijur, Joseph, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company. Ignition apparatus. No. 1,330,619; Feb. 10; v. 271; p. 269.
Bijur, Joseph, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company. Dynamo-electric apparatus for internal-combustion engines. No. 1,331,090; Feb. 17; v. 271; p. 428.
Bijur, Joseph, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company. Connecting device for storage batteries. No. 1,334,833; Mar. 23; v. 272; p. 661.
Bijur, Joseph, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company. Engine-starting apparatus. No. 1,337,973; Apr. 20; v. 273; p. 565.
Bijur, Joseph, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company. Engine-starting apparatus. No. 1,343,028; June 8; v. 275; p. 331.
Bijur, Joseph, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company. Engine-starting apparatus. No. 1,343,029; June 8; v. 275; p. 331.
Bijur, Joseph, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company. Engine-starting apparatus. No. 1,343,030; June 8; v. 275; p. 331.
Bijur, Joseph, assignor, by mesne assignments, to Bijur Motor Appliance Company, New York, N. Y. Electrical starting apparatus. No. 1,349,870; Aug. 17; v. 277; p. 464.
Bijur, Joseph, assignor, by mesne assignments, to Bijur Motor Appliance Company, New York, N. Y. Lubricating device for dynamos and the like. No. 1,349,871; Aug. 17; v. 277; p. 464.
Bijur, Joseph, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company. Electrical apparatus. No. 1,359,866; Nov. 23; v. 280; p. 672.
Bijur, Joseph, assignor to Bijur Motor Appliance Company, New York, N. Y. Ignition system. No. 1,362,386; Dec. 14; v. 281; p. 326.
Bijur, Joseph, assignor, by mesne assignments, to Bijur Motor Appliance Company, New York, N. Y. Electrical apparatus for internal-combustion engines. No. 1,362,770; Dec. 21; v. 281; p. 453.

Digitized by Google

Bijur, Joseph, assignor, by mesne assignments, to Bijur Motor Appliance Company, New York, N. Y. Electrical apparatus for automobiles and the like. No. 1,362,771; Dec. 21; v. 281; p. 454.

Bijur, Joseph, assignor, by mesne assignments, to Bijur Motor Appliance Company, New York, N. Y. Accessory for motor-vehicles. No. 1,362,772; Dec. 21; v. 281; p. 454.

Bijur Motor Appliance Company. (See Bijur, Joseph, assignor.)

Bijur Motor Appliance Company. (See Hirsch, Morris, assignor.)

Bijur Motor Appliance Company. (See Wolffsohn, Lionel M., assignor.)

Bilan, John, Flint, Mich. Stove. No. 1,340,367; May 18; v. 274; p. 455.

Bilderback, Bart, Rockville, Ind. Metallic smokehouse. No. 1,327,937; Jan. 13; v. 270; p. 258.

Bilderback, Bart, Rockville, Ind., assignor to Cleveland Electric Machine and Manufacturing Company, Cleveland, Ohio. Metallic smokehouse. (Reissue.) No. 14,965; Oct. 26; v. 279; p. 681.

Bilello, Thomas W., Long Island City, N. Y., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sole-cutting die. No. 1,343,383; June 15; v. 275; p. 463.

Bilgere, George A., St. Louis, Mo. Controlling mechanism for automobiles. No. 1,334,845; Mar. 23; v. 272; p. 568.

Bilknap, Frank L. (See James, Willard C., assignor.)

Billing, Charles, London, England. Disinfectant, antiseptic, deodorant, or detergent. No. 1,336,272; Apr. 6; v. 273; p. 107.

Billinghurst, Charles B., Pierre, S. D. Shock-controller. No. 1,330,512; Feb. 10; v. 271; p. 250.

Billings, Frank. (See Greenleaf, Robert P., assignor.)

Billings, Frank, Cleveland, Ohio. Mine-loading machine. No. 1,328,487; Jan. 20; v. 270; p. 400.

Billings, Frank, Cleveland, Ohio. Loading-machine. No. 1,349,749; Aug. 17; v. 277; p. 441.

Billings, Harry E., assignor of one-half to C. J. Searle, Lead, S. D. Belt-buckle. No. 1,350,207; Aug. 17; v. 277; p. 529.

Billings, Joseph, Brooklyn, N. Y. Identification means for automobiles. No. 1,364,025; Dec. 28; v. 281; p. 736.

Billings, William T., and F. Schryver, Ithaca, N. Y. Milk-strainer. No. 1,348,536; Aug. 3; v. 277; p. 79

Billingsley, Percy L., assignor to Atlas Manufacturing Company, Orlando, Fla. Lifting-jack. No. 1,356,033; Oct. 19; v. 279; p. 404.

Billington, John E., Broadheath, assignor to Linotype and Machinery Limited, London, England. Magazine of typographical composing and casting machines. No. 1,342,980; June 8; v. 275; p. 321.

Billman, Henry E., and F. A. Kell, assignors to Industrial Track Construction Company, St. Louis, Mo. Car-bumper. No. 1,356,959; Oct. 26; v. 279; p. 633.

Billman, Obed C., Cleveland, Ohio. Car-coupling. No. 1,348,776; Aug. 3; v. 277; p. 124.

Billon, Frédéric. (See Schneider, J., and Billon.)

Billon, Frederic. (See Schneider, J., Hürlimann, and Billon.)

Billon, Frederic, Solothurn, Switzerland. High-voltage distributer for electric ignition apparatus. No. 1,349,316; Aug. 10; v. 277; p. 283.

Billon, Frederick, Solothurn, Switzerland. Electric ignition apparatus. No. 1,357,684; Nov. 2; v. 280; p. 91.

Billon, Frederic, Solothurn, Switzerland. Electric ignition apparatus. No. 1,361,133; Dec. 7; v. 281; p. 30.

Billow, Milton O., Harrisburg, Pa. Class record-book. No. 1,327,610; Jan. 13; v. 270; p. 198.

Billson, Edward F. (See Lippincott and Billson.) (Reissue.)

Bills, George M., Battle Creek, Mich. Fastener. No. 1,343,301; June 15; v. 275; p. 447.

Billstein, Aaron M., Riderwood, Md. Box. No. 1,351,278; Aug. 31; v. 277; p. 846.

Billy, Paul, Linden, N. J. Life-protector. No. 1,350,136; Aug. 17; v. 277; p. 515.

Bilton Machine Tool Company, The. (See Hoagland, Frank O., assignor.)

Bilyeu, Thomas, Hillsboro, and F. A. Gridley, Portland, Oreg. Money-paying and accounting machine. No. 1,329,748; Feb. 3; v. 271; p. 75.

Bilyeu, William F. (See Fitts, J. L., and Bilyeu.)

Binder, Gottlob, Rochester, N. Y., assignor to American Laundry Machinery Co., Cincinnati, Ohio. Tail-stretching mechanism for bosom-boards. No. 1,329,880; Feb. 3; v. 271; p. 100.

Binder, Gottlob, Rochester, N. Y., assignor to American Laundry Machinery Co., Cincinnati, Ohio. Bosom-press. No. 1,336,415; Apr. 13; v. 273; p. 194.

Binder, Louis, Newark, N. J. Box. No. 1,330,300; Feb. 10; v. 271; p. 209.

Binder, Richard L., Philadelphia, Pa. Chain. No. 1,329,034; Jan. 27; v. 270; p. 532.

Bindhammer, Charles A., Chicago, Ill. Annunciator. No. 1,331,180; Feb. 17; v. 271; p. 444.

Bingaman, Charles A., Reading, Pa. Crane. No 1,352,575; Sept. 14; v. 278; p. 202.

Bingham, Alvah L., assignor to Ball Brothers Glass Manufacturing Company, Muncie, Ind. Glass-working machine. No. 1,340,366; May 18; v. 274; p. 455.

Bingham, Jeremiah, assignor to The Bock Bearing Company, Toledo, Ohio. Roller-bearing cage. No. 1,355,303; Oct. 12; v. 279; p. 222.

Bingley, John W., Watertown, N. Y. Safety train-stop mechanism. No. 1,349,489; Aug. 10; v. 277; p. 317.

Bingley, John W., Watertown, N. Y. Engineer's brake-valve. No. 1,353,375; Sept. 21; v. 278; p. 419.

Bingley, John W., Watertown, N. Y. Safety train-stop mechanism. No. 1,363,557; Dec. 28; v. 281; p. 646.

Binj, Francesco, Milan, Italy. Device for the prevention of pocket-picking. No. 1,347,005; July 20; v. 276; p. 452.

Binkley, Leroy G., assignor to Railway & Mine Supply Company, Chicago, Ill. Car-wheel mounting. No. 1,329,495; Feb. 3; v. 271; p. 29.

Binkley, Leroy G., assignor to Railway & Mine Supply Company, Chicago, Ill. Mine-car wheel. No. 1,329,496; Feb. 3; v. 271; p. 29.

Binkley, Leroy G., assignor to Railway & Mine Supply Company, Chicago, Ill. Mine-car wheel. No. 1,329,497; Feb. 3; v. 271; p. 29.

Binkley, Leroy G., assignor to Railway & Mine Supply Company, Chicago, Ill. Mine-car wheel. No. 1,329,498; Feb. 3; v. 271; p. 29.

Binkley, Leroy G., assignor to Railway & Mine Supply Company, Chicago, Ill. Car-wheel. No. 1,329,499; Feb. 3; v. 271; p. 30.

Binnie, Robert, Bolivar, Pa. Rotary reciprocating drill. No. 1,362,387; Dec. 14; v. 281; p. 327.

Bintliff, Fred S., Minneapolis, Minn. Producing monolithic concrete tombs. No. 1,355,122; Oct. 12; v. 279; p. 186.

Bir, Herman M., Huntington, Ind. Tool for applying metal ribbon-leaf. No. 1,348,079; July 27; v. 276; p. 722.

Birch, Ezekiel B., Crafton, assignor to Mine Safety Appliances Company, Pittsburgh, Pa. Shot-firing attachment for electric batteries. No. 1,363,224; Dec. 28; v. 281; p. 582.

Birch, Gustaf B. (See Cameron, J. A., and Birch.)

Birch, Joseph F., Jr., assignor to Musher and Company, Inc., Baltimore, Md. Fish-cleaning machine. No. 1,326,905; Jan. 6; v. 270; p. 4.

Birchard, Eslie R., Toronto, Ontario, Canada, assignor to The Department of Soldiers Civil Re-Establishment, Invalided Soldiers' Commission of The Dominion of Canada. Artificial arm. No. 1,327,938; Jan. 13; v. 270; p. 259.

Bird Adding Machine Company. (See Fitch, Charles M., assignor.)

Bird, Charles A. (See Bird, Peter B. and C. A.)

Bird, Charles B., Chicago, Ill. Pen and pencil holder. No. 1,354,718; Oct. 5; v. 279; p. 55.

Bird, Charles E., Minneapolis, Minn. Scale-lever. No. 1,337,635; Apr. 20; v. 273; p. 500.

Bird, Charles E., Minneapolis, Minn. Weighing-scale. No. 1,359,223; Nov. 16; v. 280; p. 499.

Bird, Charles S. (See Cowan, Clarence P., assignor.)

Bird, Charles S., Walpole, Mass. Wad for shot shells or cartridges. No. 1,337,993; Apr. 27; v. 273; p. 638.

Bird, Charles S., East Walpole, Mass. Cover-board for shingle-bundles and the like. No. 1,359,569; Nov. 23; v. 280; p. 613.

Bird, Edward J., Ashland, Ky. Reduction-furnace. No. 1,333,957; Mar. 16; v. 272; p. 449.

Bird, Emerson B., Seattle, Wash. Jack. No. 1,344,575; June 22; v. 275; p. 763.

Bird Machine Company. (See Clarke, Ralph S., assignor.)

Bird, Milton W., Wenatchee, Wash. Fruit-grading machine. No. 1,352,780; Sept. 14; v. 278; p. 243.

Bird, Peter B., New York, and C. A., Mount Vernon, N. Y. Blow-off cock. No. 1,359,785; Nov. 23; v. 280; p. 656.

Bird, Richard E., Wichita, Kans. Fuel-line lock. No. 1,346,480; July 13; v. 276; p. 289.

Bird, Wade H. (See Bartholomew, L. A., and Bird.)

Birdsall, Wilfred T., assignor, by mesne assignments, to Westinghouse Lamp Company, Montclair, N. J. Vacuum-type converter. No. 1,355,529; Oct. 12; v. 279; p. 266.

Birdsey, Charles R., Hinsdale, assignor to United States Gypsum Company, Chicago, Ill. Plaster-board. No. 1,358,508; Nov. 9; v. 280; p. 315.

Birdzell, John W., Arkansas City, Kans. Internal-combustion rotary engine. No. 1,338,207; Apr. 27; v. 273; p. 679.

Birkeland, Ingolf, Fort Benton, Mont. Shocking-machine. No. 1,357,269; Nov. 2; v. 280; p. 13.

Birkenbeuel, Edward B., Portland, Oreg. Jar-seal tester. No. 1,340,473; May 18; v. 274; p. 475.

Birkenfeld, Benjamin, New York, N. Y. Automobile signaling device. No. 1,352,781; Sept. 14; v. 278; p. 243.

Birkenfeld, Benjamin, New York, N. Y. Electrically-heated garment. No. 1,358,509; Nov. 9; v. 280; p. 315.

Birkenhead, George A., Vancouver, British Columbia, Canada. Parlor game. No. 1,331,741; Feb. 24; v. 271; p. 569.

Digitized by Google

Alphabetical list of patentees—Continued.

Birkenmaier, Theodore, St. Louis, Mo. Water-controlling mechanism for ice-cans. No. 1,340,814; May 18; v. 274; p. 539.
Birkenmaier, Theodore, St. Louis, Mo. Water-controlling mechanism for laundry-tubs. No. 1,345,311; June 29; v. 275; p. 970.
Birkholz, Albert A., Zurich, Switzerland. Apparatus for generating illuminating-gas. No. 1,355,530; Oct. 12; v. 279; p. 266.
Birkigt, Marc, Bois-Colombes, France. Mechanism for synchronizing machine-gun fire. No. 1,328,811; Jan. 27; v. 270; p. 488.
Birmingham Iron Foundry. (See Gordon, William A., assignor.)
Birmingham Iron Foundry. (See Hansen, Svend, assignor.)
Birnbaum, Charles. (See Eliasoff, A. L., and Birnbaum.)
Birnstock, William W., assignor to Hench & Dromgold Company, York, Pa. Nozzle-header for bottle-washing machines. No. 1,349,144; Aug. 10; v. 277; p. 249.
Birrell, James. (See Birrell, William, and J.)
Birrell, William and J., assignors to The Audible Telephone Company, Chicago, Ill. Telephone-transmitter. No. 1,341,837; June 1; v. 275; p. 44.
Birrell, William and J., assignors to The Audible Telephone Company, Chicago, Ill. Telephone-transmitter. No. 1,342,581; June 8; v. 275; p. 243.
Birrell, William and J., assignors to The Audible Telephone Company, Chicago, Ill. Telephone-transmitter. No. 1,342,582; June 8; v. 275; p. 243.
Birth, Charles, Kingston borough, assignor to Wales Adding Machine Company, Wilkes-Barre, Pa. Calculating-machine. No. 1,339,542; May 11; v. 274; p. 242.
Bisaillon, Hector E. (See Mills, W. S., and Bisaillon.)
Bisbing, Charles F. (See Weinberg, I. H., and Bisbing.)
Bisbing, Harry O., Detroit, Mich. Glass-molding machine. No. 1,347,202; July 20; v. 276; p. 490.
Bisbing, Harry O., Detroit, Mich. Machine for casting plate-glass. No. 1,363,450; Dec. 28; v. 281; p. 625.
Bischoff, Herman, assignor to Defiance Button Machine Co., New York, N. Y. Plaiting-machine. No. 1,345,474 July 6; v. 276; p. 29.
Bischoff, Raymond J. (See Berger, Otto R., assignor.)
Bisconer, Raymond, Visalia, Calif. Self-lubricating bearing. No. 1,329,948; Feb. 3; v. 271; p. 113.
Bisboff, Amile D., Butler, Pa. Rail-joint. No. 1,363,080; Dec. 21; v. 281; p. 513.
Bishop, Alfred J., Burswood, Western Australia, Australia. Combined hand-truck and scale. No. 1,342,246; June 1; v. 275; p. 125.
Bishop, Arthur P., *et al.* (See Bishop, Peter A., assignor.)
Bishop, Ashley L., Bristol, assignor to The Steel Products Company, Hartford, Conn. Fastening device. No. 1,352,243; Sept. 7; v. 278; p. 102.
Bishop, Ernest T. (See Bolton, W., and Bishop.)
Bishop, Fan-a-Fume Mfg. Co., The. (See White, Fred G., assignor.)
Bishop, George E., Cleveland, Ohio. Fastener. No. 1,330,426; Feb. 10; v. 271; p. 284.
Bishop, Harry, Lyons, N. Y. Spring-gripping device. No. 1,339,843; May 11; v. 274; p. 299.
Bishop, Lloyd C., South Bend, Ind. Photographic objective. No. 1,347,673; July 27; v. 276; p. 640.
Bishop, Merle E., Heyworth, Ill. Handle for various articles. No. 1,338,968; May 4; v. 274; p. 58.
Bishop, Oel E., Garfield, Utah. Hydraulic clutch and power-transmission device. No. 1,358,054; Nov. 9; v. 280; p. 225.
Bishop, Peter A., assignor of one-half to himself and one-half to A. P. Bishop, Fall River, Mass. Tension device. No. 1,344,672; June 29; v. 275; p. 847.
Bishop, Rutherford C., Ada, Okla. Piano-tool. No. 1,362,220; Dec. 14; v. 281; p. 295.
Bishop, Samuel H. (See Slye, J. Q., and Bishop.)
Bishop, Thomas K., Powell Station, Tenn. Smoke-consuming device for locomotives. No. 1,348,537; Aug. 3; v. 277; p. 79.
Bishop, William F., Washington, D. C. Valve-stem base or pad. No. 1,363,386; Dec. 28; v. 281; p. 612.
Bishop, William J., assignor of one-half to J. J. Quilty, Collingwood, Ontario, Canada. Coin-controlled door. No. 1,351,609; Aug. 31; v. 277; p. 913.
Bishopric, George F., Wyoming, Ohio. Wall-covering. No. 1,339,915; May 11; v. 274; p. 313.
Bisplinghoff, Launie C., Chaffee, Mo. Engine-muffler. No. 1,333,533; Mar. 9; v. 272; p. 308.
Bissell, Carl H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Motor-starting switch. No. 1,336,064; Apr. 6; v. 273; p. 68.
Bissell, Carl H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Lamp-shade holder. No. 1,345,741; July 6 v. 276; p. 81.
Bissell, Carl H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Electric switch and box. No. 1,350,486; Aug. 24; v. 277; p. 631.
Bissell, Carl H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Locking means for locking incandescent electric lamps. No. 1,357,539; Nov. 2; v. 280; p. 64.
Bissell, Carl H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Electric service-box. No. 1,360,079; Nov. 23; v. 280; p. 714.
Bissell, Carl H., and F. C. Smith, assignors to Crouse-Hinds Company, Syracuse, N. Y. Quick-action switch. No. 1,349,038; Aug. 10; v. 277; p. 228.
Bissell, Harry C., and J. G. Chase, Tacoma, Wash. Ladder. No. 1,342,153; June 1; v. 275; p. 106.
Bissell, James H., and C. G. Beauregard, Troy, N. Y. Feed-regulator for road-sanding machines. No. 1,345,120; June 29; v. 275; p. 952.
Bissell, T. E., Company Limited. (See Bissell, Torrance E., assignor.)
Bissell, Torrance E., assignor to T. E. Bissell Company Limited, Elora, Ontario, Canada. Disk harrow. No. 1,331,229; Feb. 17; v. 271; p. 452.
Bissell, Walter L., Cleveland, Ohio. School-room checker. No. 1,347,888; July 27; v. 276; p. 684.
Bissinger, John B., Jr., Lancaster, Pa. Means for carrying out systems for savings-accounts. No. 1,329,106; Jan. 27; v. 270; p. 545.
Bisson, Omer, Callaway, Minn. Saw-set. No. 1,348,622; Aug. 3; v. 277; p. 96.
Bitler, Frederic C., Brooklyn, N. Y., assignor of one-half to L. V. Jones, Norwalk, Conn. Bottle-stopper. No. 1,327,519; Jan. 6; v. 270; p. 119.
Bittan, Benjamin A., Philadelphia, Pa. Waterproof garment. No. 1,360,715; Nov. 30; v. 280; p. 907.
Bitter, Arthur A., Los Angeles, Calif., assignor, by mesne assignments, to Western Vulcanizer Manufacturing Company, Chicago, Ill. Vulcanizer. No. 1,349,039; Aug. 10; v. 277; p. 228.
Bitterman, Simon, *et al.* (See Johnson, Charles E., assignor.)
Bittinger, Charles, Duxbury, Mass. Combining reflected and transmitted light-waves of varying lengths to produce subjective changes in scenic effects. No. 1,342,247; June 1; v. 275; p. 125.
Bittner, Emil R., Victoria, Tex. Liquid-fuel burner. No. 1,342,526; June 8; v. 275; p. 231.
Bituminized Road Company. (See Popkess, Michael A., assignor.)
Bitsa, Charles A., *et al.* (See Buresch, Edward G., assignor.)
Bivins, Frederick C. (See Ashe, W. B., and Bivins.)
Biwoln, Stanley, White Lake, Wis. Baby-carriage. No. 1,336,725; Apr. 13; v. 273; p. 253.
Biwoln, Stanley, White Lake, Wis. Bread-slicing machine. No. 1,336,726; Apr. 13; v. 273; p. 254.
Bixby, Allan S., Indianapolis, Ind., assignor to The National Malleable Castings Company, Cleveland, Ohio. Molding-machine. No. 1,327,419; Jan. 6; v. 270; p. 100.
Bixby, Chancy E. (See Butman, Lewis F., assignor.)
Bixby, William H. (See Mapel, Lewis A., assignor.)
Bixby, William H., Waterloo, Iowa. Crossing-signal for railway-tracks. No. 1,332,705; Mar. 2; v. 272; p. 101.
Björgum, Nils, assignor to A/S Bjorgums Gevaerkompani, Christiania, Norway. Automatic hand-gun. No. 1,360,873; Nov. 30; v. 280; p. 938.
Bjorn, Jens A., Jamestown, N. Y. Machine for graining wood. No. 1,350,918; Aug. 24; v. 277; p. 713.
Bjornlie, Julius, assignor to Bjornlie Manufacturing Company, Watertown, S. D. Tire-tool. No. 1,343,893; June 22; v. 275; p. 629.
Bjornlie Manufacturing Company. (See Bjornlie, Julius, assignor.)
Björnsen, Lauritz H. J. T., Copenhagen, Denmark. Electrical time-switch. No. 1,335,709; Mar. 30; v. 272; p. 885.
Björnstad, Jörgen, Reading, England. Apparatus for producing sound. No. 1,339,158; May 4; v. 274; p. 94.
Blache, François M. P., La Ricamarie, France. Cock. No. 1,340,107; May 11; v. 274; p. 349.
Blache, Hans H., Copenhagen, Denmark. Scraper-ring for scraping oil from cylinders, piston-rods, or the like. No. 1,327,801; Jan. 13; v. 270; p. 234.
Blache, Hans H., Hellerup, near Copenhagen, Denmark. Diesel motor. No. 1,330,676; Feb. 10; v. 271; p. 280.
Blache, Hans H., Hellerup, near Copenhagen, Denmark. Fastening-stud for exhaust-valves in internal-combustion engines. No. 1,332,316; Mar. 2; v. 272; p. 27.
Blache, Hans H., Hellerup, near Copenhagen, Denmark. Lubricating system for internal-combustion engines. No. 1,342,273; June 1; v. 275; p. 130.
Blache, Hans H., Hellerup, near Copenhagen, Denmark. Bed for vertical internal-combustion engines. No. 1,342,939; June 8; v. 275; p. 313.
Black, Andrew E., Chicago, Ill. Moistening device. No. 1,330,837; Feb. 17; v. 271; p. 378.
Black, C. H., *et al.* (See Gunn, Charles H., assignor.)
Black, Charles W., Baker, Oreg. Pumping apparatus. No. 1,361,958; Dec. 14; v. 281; p. 243.
Black, Clarence J., North Little Rock, Ark. Baby-sulky. No. 1,356,034; Oct. 19; v. 279; p. 404.
Black, David C., Newcastle-upon-Tyne, assignor to The Parsons Marine Steam Turbine Company, Limited, Wallsend, England. Ship-propulsion installation. No. 1,336,018; Apr. 6; v. 273; p. 60.
Black, David C., Alloa, Scotland, assignor to The Parsons Marine Steam Turbine Company, Limited, Wallsend, England. Ship-propulsion installation. No. 1,336,019; Apr. 6; v. 273; p. 60.

Digitized by Google

Black, David C., Alloa, Scotland, assignor to The Parsons Marine Steam Turbine Company, Limited, Wallsend, Northumberland, England. Ship-propulsion installation. No. 1,336,020; Apr. 6; v. 273; p. 60.
Black, Douglas F., Tofield, Alberta, Canada. Collapsible poultry-crate. No. 1,340,815; May 18; v. 274; p. 539.
Black, Eddie B., Commerce, Ga. Convertible swing. No. 1,335,360; Mar. 30; v. 272; p. 820.
Black, Frederick H., Pittsburgh, Pa. Message-interpreting device. No. 1,352,046; Sept. 7; v. 278; p. 65.
Black, George F., Baltimore, Md. Combined sash holder and fastener. No. 1,358,611; Nov. 9; v. 280; p. 336.
Black, George H., Rochester, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J. Manufacture of welt-shoes. No. 1,353,308; Sept. 21; v. 278; p. 406.
Black, George W., Pueblo, and L. A. Hannan, Denver, Colo. Humidifier for internal-combustion engines. No. 1,335,551; Mar. 30; v. 272; p. 855.
Black, James E. (See Popkess, M. A., and Black.)
Black, Joseph, Santa Barbara, Calif. Liquid fuel. No. 1,360,872; Nov. 30; v. 280; p. 938.
Black, Josiah, deceased, Lansing, Mich.; S. D. Kelley administrator. Gasolene-dispensing device. No. 1,344,478; June 22; v. 275; p. 744.
Black, Lee J., Beaumont, Tex. Rotary drilling-machine. No. 1,341,410; May 25; v. 274; p. 726.
Black, Lee J., Beaumont, Tex. Rotary drilling-machine. No. 1,341,702; June 1; v. 275; p. 18.
Black, Mathew, Brooklyn, N. Y. Beverage-mixer. No. 1,327,900; Jan. 13; v. 270; p. 252.
Black, Mathew, Brooklyn, N. Y. Mixing device with independently-adjustable stirring-rod. No. 1,333,379; Mar. 9; v. 272; p. 280.
Black, William A., West Asheville, N. C. Thermometer-case. No. 1,333,601; Mar. 16; v. 272; p. 382.
Black, William A., assignor to The Simplex Auto Wheel Company, Spokane, Wash. Resilient wheel. (Reissue.) No. 14,900; June 29; v. 275; p. 975.
Black, William J., Chicago, Ill. Self-cleaning pulley. No. 1,335,421; Mar. 30; v. 272; p. 831.
Black, William J., Chicago, Ill. Automatic transfer for dump-cars. (Reissue.) No. 14,901; June 29; v. 275; p. 975.
Blackburn Aeroplane and Motor Company, The. (See Copley, J. W., and Thornton, assignors.)
Blackburn, Arthur H. (See Armstrong, S. A., and Blackburn.)
Blackburn, Arthur H., Downers Grove, and F. E. Fleming, assignors to The Underfeed Stoker Company of America, Chicago, Ill. The Underfeed furnace. No. 1,326,906; Jan. 6; v. 270; p. 4.
Blackburn, Emery D., San Francisco, Calif. Hose-clamp. No. 1,344,433; June 22; v. 275; p. 735.
Blackburn, Ernest, Millvale, and F. G. Smith, Westview, Pa. Heater. No. 1,335,216; Mar. 30; v. 272; p. 792.
Blackburn, Harold, Doncaster, England. Parachute. No. 1,328,418; Jan. 20; v. 270; p. 386.
Blackburn, Harold H. (See Stock, Guy J., assignor.)
Blackburn, Jasper, Webster Groves, Mo. Expanding screw-anchor. No. 1,330,283; Feb. 10; v. 271; p. 198.
Blackburn, Jasper, Webster Groves, Mo. Expanding screw-anchor. No. 1,343,384; June 15; v. 275; p. 464.
Blackburn, Jasper, Webster Groves, assignor to The Blackburn Patent Steering Wheel Company, St. Louis, Mo. Lock for automobile-steering devices. No. 1,343,192; June 15; v. 275; p. 427.
Blackburn Patent Steering Wheel Company, The. (See Blackburn, Jasper, assignor.)
Blackburn-Smith Corporation, The. (See Kaufman, Irvin H., assignor.)
Blackburn, Thomas J. (See Horvath, L., and Blackburn.)
Blackburne, Albert. (See Hutchinson, Warren B., assignor.)
Blacker, William, Stalybridge, England. Machine or apparatus for breaking up or pulverizing caustic soda and the like. No. 1,327,901; Jan. 13; v. 270; p. 252.
Blacker, William, Staleybridge, England. Mechanical or power actuated hammer. No. 1,349,939; Aug. 17; v. 277; p. 477.
Blackledge, John T., assignor of two-fifths to C. Hartshorn, Elvins, Mo. Automatic mine-car coupling. No. 1,339,016; May 4; v. 274; p. 67.
Blackman, Horace L., Janesville, Wis. Pencil. No. 1,350,983; Aug. 24; v. 277; p. 725.
Blackman, Walter W., assignor to G. A. Coats Machine Company, Indianapolis, Ind. Rotary pump. No. 1,363,451; Dec. 28; v. 281; p. 625.
Blackman, Zachary T., Long Beach, Miss. Combination hoe and spade. No. 1,344,256; June 22; v. 275; p. 699.
Blackmer Rotary Pump Co. (See Oldham, John H., assignor.)
Blackmon, Benjamin F. (See Gist, Roger, assignor.)
Blackmon, Shelby C. *et al.* (See Krickel, Louis H., assignor.)
Blackmore, Charles C., Dayton, Ohio. Automatic gun. No. 1,351,017; Aug. 31; v. 277; p. 795.
Blackmore, Charles C., Dayton, Ohio. Compensating wire-support. No. 1,362,221; Dec. 14; v. 281; p. 295.
Blackmore, Henry S., Mount Vernon, N. Y. Obtaining water-soluble alkali-metal compounds from water-insoluble substances. No. 1,355,381; Oct. 12; v. 279; p. 237.
Blackmore, Henry S., Mount Vernon, assignor to Kali Company of America, New York, N. Y. Yielding water-soluble alkali-metal compounds from water-insoluble substances. No. 1,355,588; Oct. 12; v. 279; p. 277.
Blackmore, Henry S., Mount Vernon, assignor to Kali Company of America, New York, N. Y. Producing water-soluble alkali-metal compounds from water-insoluble substances. No. 1,355,794; Oct. 12; v. 279; p. 316.
Blackmore, Henry S., Mount Vernon, assignor to Kali Company of America, New York, N. Y. Securing water-soluble alkali-metal compounds from water-insoluble substances. No. 1,357,025; Oct. 26; v. 279; p. 646.
Blackmore, John E., Detroit, Mich. Valve and retainer therefor. No. 1,357,608; Nov. 2; v. 280; p. 77.
Blackmore, John E. L., assignor to General Motors Company, Detroit, Mich. Switch-operating device. No. 1,363,558; Dec. 28; v. 281; p. 647.
Blackmore, Sidney P., Vaalhoek, Transvaal, South Africa. Fuse-tool. No. 1,361,301; Dec. 7; v. 281; p. 63.
Blackowiak, John. (See Goch, J., and Blackowiak.)
Blackstone, Clarence W., Chicago, Ill., assignor to The Fred H. Knapp Co., Baltimore, Md. Treating labels and applying same to cans or the like. No. 1,329,696; Feb. 3; v. 271; p. 65.
Blackstone, Elmer E. (See Riley, J. J., and Blackstone.)
Blackstone, George M. (See Carter, Frank and E., assignors.)
Blackstone International Corporation. (See Pine, James A. W., assignor.)
Blackstone Manufacturing Company. (See More, Glenn, assignor.)
Blackwell, Francis O., Englewood, N. J., and H. W. Buck, Hewlett, N. Y., assignors to General Electric Company. High-tension insulator. No. 1,362,388; Dec. 14; v. 281; p. 327.
Blackwell, Henry F., assignor of one-half to W. H. Strawn and one-half to M. A. Blackwell, New York, N. Y. Drilling device. No. 1,350,059; Aug. 17; v. 277; p. 500.
Blackwell, Maude A., *et al.* (See Blackwell, Henry F., assignor.)
Blackwell, Otto B., Garden City, N. Y.; T. Shaw, Hackensack, N. J., and C. J. Koukol, Elmhurst, N. Y., assignors to American Telephone and Telegraph Company. Electrical measuring apparatus. No. 1,329,949; Feb. 3; v. 271; p. 118.
Blackwell, Willis B. and W. J., New York, N. Y. Display-support. No. 1,337,816; Apr. 20; v. 273; p. 584.
Blackwell, Willis J. (See Blackwell, Willis B. and W. J.)
Blaetz, Harry M., Philadelphia, Pa., assignor to Royal Electrotype Company. Holder for electroplating. No. 1,354,234; Sept. 28; v. 278; p. 636.
Blaich, Alfred O., Company. (See Ferguson, T. R., and Larson, assignors.)
Blain, Estella H., administratrix. (See Blain, Joseph E.)
Blain, George A., and J. Scherer, Long Lake, Minn. Exhaust-muffler. No. 1,344,976; June 29; v. 275; p. 904.
Blain, Joseph E., deceased, Pittsburgh; E. H. Blain, administratrix, assignor of one-half to E. H. Blain, Thompson, and one-half to R. H. Fitzgerald, Pittsburgh, Pa. Bearing-wear-signal device. No. 1,361,000; Dec. 7; v. 281; p. 4.
Blaine, Joseph R., Oak Park, assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Printing-press-fripping mechanism. No. 1,339,316; May 4; v. 274; p. 122.
Blaine, Joseph R., Oak Park, assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Sheet guide adjustment. No. 1,345,742; July 6; v. 276; p. 81.
Blaine, Joseph R., Oak Park, assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Plural-sheet detector. No. 1,350,487; Aug. 24; v. 277; p. 631.
Blaine, Joseph R., Oak Park, assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Shifting plate-clamp. No. 1,350,488; Aug. 24; v. 277; p. 631.
Blair, Albert, *et al.* (See Ehrlich, Leo, assignor.)
Blair, Archibald W., Wellington, New Zealand. Spanner or wrench. No. 1,359,660; Nov. 23; v. 280; p. 630.
Blair, Chauncy M. (See Sublette, William M., assignor.)
Blair, David E., and D. K. Macleod, Montreal, Quebec, Canada. Signal. No. 1,339,685; May 11, v. 274; p. 270.
Blair, Duncan R. (See Clapp, Harry B., assignor.)
Blair, Frank P., Toledo, C. L. Dows and G. S. Merrill, Cleveland, Ohio; said Dows assignor to said Blair and Merrill. Indicating device. No. 1,340,145; May 18; v. 274; p. 414.
Blair, J. C., Company. (See Africa, Elmer M., assignor.)
Blair, James R., Decatur, Ill. Automobile direction-indicator. No. 1,333,534; Mar. 9; v. 272; p. 309.
Blair, Peter W., Quincy, assignor to The Haydenville Company, Haydenville, Mass. Drinking-fountain. No. 1,339,159; May 4; v. 274; p. 94.
Blair, Robert S. (See Washburn, Edwin C., assignor.)
Blair, Robert S., South Orange, N. J. Testing device for tennis-balls. No. 1,335,422; Mar. 30; v. 272; p. 831.

Digitized by Google

Alphabetical list of patentees—Continued.

Blair, Robert S., South Orange, N. J. Firearm. No. 1,352,938; Sept. 14; v. 278; p. 274.
Blair, Shiras A., Indianapolis, Ind. Washing system. No. 1,352,867; Sept. 14; v. 278; p. 261.
Blair, Teressa A., Marquam, Oreg. Bandage-rolling machine. No. 1,359,021; Nov. 16; v. 280; p. 461.
Blair Tool & Machine Works. (See Wilhelm, John H., assignor.)
Blair, Wesley W., Newtonville, Mass. Treating peat. No. 1,349,713; Aug. 17; v. 277; p. 434.
Blair, Wesley W., Newtonville, Mass. Treating peat. No. 1,349,714; Aug. 17; v. 277; p. 435.
Blair, Wiley A., *et al.* (See Herrington, John A. D., assignor.)
Blair, William E., Saginaw, Mich. Packing-ring. No. 1,361,672; Dec. 7; v. 281; p. 139.
Blaisdell, Frank H., Bridgeport, Conn. Adjustable shade-roller bracket. No. 1,332,285; Mar. 2; v. 272; p. 21.
Blaisdell, Frederick E., Bushey, England. Manufacturing tubing. No. 1,361,001; Dec. 7; v. 281; p. 4.
Blaisdell, Sidney S. (See Cook and Blaisdell.)
Blaise, Edward, Brooklyn, N. Y. Cabinet for talking-machine records. No. 1,334,945; Mar. 30; v. 272; p. 741.
Blake, Albert C., Buffalo, N. Y. Nut-lock. No. 1,339,015; May 4; v. 274; p. 67.
Blake, Archie, New Orleans, La. Nut-lock. No. 1,349,404; Aug. 10; v. 277; p. 300.
Blake, C. C., Incorporated. (See Blake, Charles C., assignor.)
Blake, C. C., Incorporated. (See Foster, Edward E., assignor.)
Blake, Charles C., Brookline, Mass. Edge-trimming machine. No. 1,339,878; May 11; v. 274; p. 306.
Blake, Charles C., Brookline, Mass. Insole-rounding machine. No. 1,340,520; May 18; v. 274; p. 484.
Blake, Charles C., Brookline, Mass. Sewing-machine. No. 1,347,889; July 27; v. 276; p. 684.
Blake, Charles C., Brookline, assignor to C. C. Blake, Incorporated, Boston, Mass. Lasting apparatus. No. 1,332,197; Mar. 2; v. 272; p. 4.
Blake, Charles C., Brookline, assignor to C. C. Blake, Incorporated, Boston, Mass. Vamp-trimming machine. No. 1,332,198; Mar. 2; v. 272; p. 4.
Blake, Clinton F., Portland, Oreg. Luggage-rack. No. 1,349,938; Aug. 17; v. 277; p. 477.
Blake, Clinton F., assignor to F. B. Mallory Company, Portland, Oreg. Block. No. 1,358,276; Nov. 9; v. 280; p. 268.
Blake, Clyde. (See Blake, Oscar J. and C.)
Blake, David C., Durham, N. C. Screen-door and window construction. No. 1,351,940; Sept. 7; v. 278; p. 45.
Blake, Eli J., Westfield, N. J., assignor to Hall Switch & Signal Co. Alternating-current relay. No. 1,333,058; Mar. 9; v. 272; p. 220.
Blake, Eli J., assignor to Hall Switch & Signal Co., Buffalo, N. Y. Light-signal. (Reissue.) No. 14,940; Aug. 31; v. 277; p. 935.
Blake, Frederick W. (See Steely, D. G., Blake, and Lorentzsen.)
Blake, George A., Storrs, Conn. Portable fire-escape. No. 1,340,146. May 18; v. 274; p. 414.
Blake, George H., Alameda, Calif. Device for supplying water-moisture to intake of internal-combustion engines. No. 1,352,649; Sept. 14; v. 278; p. 217.
Blake, Henry E., Elsmere, assignor of one-third to D. P. Babcock, Albany, N. Y. Saw. No. 1,334,941; Mar. 23; v. 272; p. 683.
Blake, John R., Rolling Prairie, Ind. Shock-absorber. No. 1,328,812; Jan. 27; v. 270; p. 489.
Blake & Johnson Company, The. (See Duston, Ernest W., assignor.)
Blake, Oscar J. and C., Huntington, W. Va. Pneumatic tool. No. 1,334,433; Mar. 23; v. 272; p. 585.
Blake, William F., Toledo, Ohio. Clothes-washing machine. No. 1,345,312; June 29; v. 275; p. 970.
Blake, William F., assignor of fifty-one per cent. to H. W. Duvendack, Toledo, Ohio. Can-opener. No. 1,327,134; Jan. 6; v. 270; p. 48.
Blake, William P., Kirksville, Mo. Discharge-measuring device for liquid-receptacles. No. 1,359,661; Nov. 23; v. 280; p. 631.
Blake, Robert F., Boston, Mass., assignor to Submarine Signal Company, Portland, Me. Tank-mounting. No. 1,348,538; Aug. 3; v. 277; p. 79.
Blakely, Richard M. (See Carroll, F. M., and Blakely.)
Blakely, William W., Detroit, Mich. Manufacturing securing devices. No. 1,327,852; Jan. 13; v. 270; p. 243.
Blakemore, James R., assignor to G. B. Sawyer, Murfreesboro, Tenn. Egg-tester. No. 1,329,223; Jan. 27; v. 270; p. 567.
Blakeney, John W., Cincinnati, Ohio, assignor to Armstrong Cork Company, Pittsburgh, Pa. Insole and making same. No. 1,339,160; May 4; v. 274; p. 95.
Blakeslee, Alice M., Philadelphia, Pa. Fabric stripping or cutting machine. No. 1,338,551; Apr. 27; v. 273; p. 748.
Blakeslee, George S., Chicago, Ill. Dish-washing machine. No. 1,360,716; Nov. 30; v. 280; p. 907.
Blakeslee, John R., assignor to The Ajax Manufacturing Company, Cleveland, Ohio. Press. No. 1,362,595; Dec. 21; v. 281; p. 418.
Blamfield, Charles, Boston, Mass. Pistol-light. No. 1,327,585; Jan. 6; v. 270; p. 132.
Blanchard, Casper E., Chicago, Ill. Bottle-closure. No. 1,352,650; Sept. 14; v. 278; p. 217.
Blanchard, Casper E., Chicago, Ill. Bottle-closure. No. 1,361,789; Dec. 7; v. 281; p. 162.
Blanchard, George N., San Francisco, assignor of one-half to F. V. Hammerly, Berkeley, Calif. Rectifier. No. 1,357,142; Oct. 26; v. 279; p. 669.
Blanchard, Harry E., Hudson, Mass., assignor to Lapointe Machine Tool Company. Spiral broaching-machine. No. 1,335,871; Apr. 6; v. 273; p. 31.
Blanchard, Henry A., Malone, N. Y. Pipe-joint. No. 1,334,130; Mar. 16; v. 272; p. 482.
Blanchard, Herbert C., assignor to The A. I. Root Company, Medina, Ohio. Honeycomb-foundation machine. No. 1,328,813; Jan. 27; v. 270; p. 489.
Blanchard, John F. (See Brunner, Herbert R., assignor.)
Blancher, Kenneth A., Toronto, Ontario, Canada. Combined touring and delivery vehicle. No. 1,361,359; Dec. 7; v. 281; p. 76.
Blanckensee, Sidney P., Birmingham, England. Cutting or sawing machinery. No. 1,336,501; Apr. 13; v. 273; p. 209.
Blandford, George G., Herring Neck, Newfoundland. Adjustable bracket. No. 1,345,344; July 6; v. 276 p. 4.
Blandin, Charles, Lyon, France. Sparking-plug for internal-combustion engines. No. 1,357,833; Nov. 2; v. 280; p. 121.
Blando, Frank, New York, N. Y. Biscuit-stacking machine. No. 1,351,018; Aug. 31; v. 277; p. 795.
Blaner, Stephen. (See Horkave, Michael J., assignor.)
Blaney, Jesse M., Verona, N. J., assignor, by mesne assignments, to Prizma Incorporated. Colored photographic image and producing same. No. 1,331,092; Feb. 17; v. 271; p. 428.
Blank, Charles A., Miller, Ind. Self-loader for auto-trucks. No. 1,348,777; Aug. 3; v. 277; p. 125.
Blank, Martin R., and L. F. Sitkiewitz, Thiensville, Wis. Can-handling device. No. 1,350,984; Aug. 24; v. 277; p. 726.
Blankenburg, Wilhelm A. C., Amsterdam, Netherlands. Machine with rotary and self-controlling cylinders. No. 1,328,261; Jan. 20; v. 270; p. 356.
Blankfield, George, assignor of one-sixth to A. E. Reid, one-sixth to I. Kuper, and one-sixth to P. C. Gordon, Benoni, Transvaal, South Africa. Means for packing and lubricating the pistons of internal-combustion and other engines. No. 1,336,342; Apr. 6; v. 273; p. 120.
Blankinship, Clark J., and W. M. Ellis, Patoka, Ill. Piston-rod journal-bearing. No. 1,338,351; Apr. 27; v. 273; p. 706.
Blanton, Robert H., and H. L. Hooper, Selma, Ala. Demountable rim for motor-truck wheels. No. 1,338,208; Apr. 27; v. 273; p. 679.
Blanton, Robert W., Ironton, Ohio. Roofing. No. 1,341,254; May 25; v. 274; p. 695.
Blardone, George, New Orleans, La. Regeneration of decolorizing-carbons. No. 1,327,222; Jan. 6; v. 270; p. 65.
Blasco, Walter, Erie, Pa. Portable stand. No. 1,340,108; May 11; v. 274; p. 349.
Blasdale, Frederick W. (See Muschenheim and Blasdale.)
Blasdale, Frederick W. (See Muschenheim, F. A., and Blasdale.)
Blaser, David, Taylor Ridge, Ill. Walking-cultivator. No. 1,348,693; Aug. 3; v. 277; p. 109.
Blasi, Joseph, Brooklyn, N. Y., assignor to the Singer Manufacturing Company. Sewing on garment-hooks. No. 1,327,191; Jan. 6; v. 270; p. 59.
Blass, Ferdinand M. E., assignor, by mesne assignments, to The Chemical Foundation, Inc., Mülheim-on-the-Rhine, Germany. Device for charging retorts. No. 1,357,487; Nov. 2; v. 280; p. 54.
Blatchford, Charles D., London, England. Artificial limb. No. 1,334,834; Mar. 23; v. 272; p. 661.
Blattberg, Nathan, assignor of one-half to S. Lachs, New York, N. Y. Collar-button. No. 1,349,872; Aug. 17; v. 277; p. 465.
Blatz, Frederick J., Wilmington, Del., assignor to The Philadelphia Textile Machinery Company, Philadelphia, Pa. Dampening leather. No. 1,352,244; Sept. 7; v. 278; p. 102.
Blatz, John B. (See Blatz, William C., assignor.)
Blatz, William C., Wilmington, Del., assignor of one-half to J. B. Blatz, Philadelphia, Pa. Manufacture of leather. No. 1,334,216; Mar. 16; v. 272; p. 497.
Blau, Edward, Newark, N. J. Means for automatically supplying storage batteries with distilled water. No. 1,361,437; Dec. 7; v. 281; p. 93.
Blauser, Henry A., Pickerington, Ohio. Cultivator. No. 1,349,657; Aug. 17; v. 277; p. 423.
Blauvelt, William G., assignor to American Telephone and Telegraph Company, New York, N. Y. Semi-mechanical telephone system. No. 1,359,482; Nov. 23; v. 280; p. 596.
Blauvelt, William G., assignor to American Telephone and Telegraph Company, New York, N. Y. Semimechanical telephone system. No. 1,362,596; Dec. 21; v. 281; p. 419.

Digitized by Google

Blaw, Jacob B., Atlantic City, N. J. Portable hoisting-jack. No. 1,358,612; Nov. 9; v. 280; p. 336.
Blaw-Knox Company. (See Barrow, Thomas, assignor.)
Blaw-Knox Company. (See Knox, Luther L., assignor.)
Blaw-Knox Company. (See Venable, William M., assignor.)
Blaylock, G. E., Tire and Rubber Company, The. (See Blaylock, Gifford E., assignor.) (Reissue.)
Blaylock, Gifford E., assignor to The G. E. Blaylock Tire and Rubber Company, Baltimore, Md. Tire-stripper. (Reissue.) No. 14,994; Nov. 30; v. 280; p. 961.
Bleach Process Company. (See Wheeler, Frank G., assignor.)
Bleecker, George W., *et al.*, trustees. (See Goodwin, Charles, assignor.)
Blenko, Walter J., Lancaster, Ohio. Support for fire-extinguishers. No. 1,347,611; July 27; v. 276; p. 628.
Blessing, Arthur L., and C. O. Nelson, Salina, Kans. Cone or gear pulling tool. No. 1,355,028; Oct. 5; v. 279; p. 115.
Blessing, John G., Chicago, Ill., assignor to Automatic Electric Company. Phonographic time-announcer. No. 1,343,302; June 15; v. 275; p. 447.
Blessing, John G., assignor to Automatic Electric Company, Chicago, Ill. Alternating-current frequency-meter. No. 1,355,884; Oct. 19; v. 279; p. 375.
Blessmeyer, Fred D., Pittsburgh, Pa. Stabilizing device. No. 1,327,586; Jan. 6; v. 270; p. 132.
Blettner, George H., Chicago, Ill. Making piston-rings. No. 1,328,414; Jan. 20; v. 270; p. 386.
Blevins, David T. (See Lewis, W. K., and Blevins.)
Blevins, Wade H., *et al.* (See Super, Frank J., assignor.)
Blevius, Jacques E. (See Brittain, William F., assignor.)
Blewer, Fred, Port Blakely, Wash. Log-rafting apparatus. No. 1,343,429; June 15; v. 275; p. 472.
Blewer, Fred, Port Blakely, Wash. Log-raft. No. 1,360,361; Nov. 30; v. 280; p. 837.
Blewett, Arthur R., assignor to Blewett Tractor Company, Tacoma, Wash. Tractor-belt. No. 1,343,958; June 22; v. 275; p. 642.
Blewett, Arthur R., Portland, Oreg., assignor to Blewett Tractor Company, Tacoma, Wash. Tractor-machine. No. 1,353,945; Sept. 28; v. 278; p. 576.
Blewett Tractor Company. (See Blewett, Arthur R., assignor.)
Bley, Herbert G., Waterloo, Iowa. Dirigible light. No. 1,349,658; Aug. 17; v. 277; p. 423.
Bleymehl, Henry, Chicago, Ill. Safety device for elevators. No. 1,348,472; Aug. 3; v. 277; p. 67.
Blickensderfer, George C., deceased, Stamford, Conn.; W. J. Blickensderfer and S. S. Mapes, executors. Machine for filling cartridge-belts. No. 1,358,699; Nov. 16; v. 280; p. 398.
Blickensderfer, George C., deceased, Stamford, Conn.; W. J. Blickensderfer and S. S. Mapes, executors. Machine for filling cartridge-belts. No. 1,358,700; Nov. 16; v. 280; p. 398.
Blickensderfer, William J., *et al.*, executors. (See Blickensderfer, George C.)
Bliffert, Walter J., Milwaukee, Wis. Spring-fork for cycles. No. 1,330,933; Feb. 17; v. 271; p. 398.
Blinn, Edmund B., Pasadena, assignor of one-third to H. Barkschat, Los Angeles, Calif. Concrete pole. No. 1,353,309; Sept. 21; v. 278; p. 406.
Bliss, Charles A., Bradford, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Skiving-machine. No. 1,341,164; May 25; v. 274; p. 678.
Bliss, Charles A., Bradford, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on heels. No. 1,351,152; Aug. 31; v. 277; p. 821.
Bliss, Charles W. (See Dietrich, E. C., and Bliss.)
Bliss, E. W., Company. (See Dieter, William, assignor.)
Bliss, E. W., Company. (See Kruse, Peter, assignor.)
Bliss, George H., assignor to A. G. Bradish & Son, Inc., Boston, Mass. Cover-fastener. No. 1,344,576; June 22; v. 275; p. 763.
Bliss, Ira B., Stamford, Conn. Demountable rim for wheels. No. 1,359,149; Nov. 16; v. 280; p. 485.
Bliss, John, London, England. Key-operated rotatable part of valves, faucets, locking devices, or other articles. No. 1,327,587; Jan. 6; v. 270; p. 132.
Bliss, John, assignor to C. C. Wakefield & Company, Limited, London, England. Closure device for containers for liquids. No. 1,356,502; Oct. 19; v. 279; p. 496.
Bliss, Sarah M., Albuquerque, N. Mex. Upholsterer's tack. No. 1,336,273; Apr. 6; v. 273; p. 107.
Bliss, William L., Niagara Falls, N. Y. Stop charge regulator. No. 1,354,799; Oct. 5; v. 279; p. 71.
Bliss, William L., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Rheostat. No. 1,327,185; Jan. 6; v. 270; p. 48.
Bliss, William L., assignor, by mesne assignments, to U. S. Light & Heat Corporation, Niagara Falls, N. Y. System of electrical regulation. No. 1,331,234; Feb. 17; v. 271; p. 453.
Bliss, William L., assignor, by mesne assignments, to U. S. Heat & Light Corporation, Niagara Falls, N. Y. Automatic starter for automobiles. No. 1,335,153; Mar. 30; v. 272; p. 782.
Bliss, William L., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Car-lighting system. No. 1,351,828; Sept. 7; v. 278; p. 23.
Bliss, William L., assignor, by mesne assignments, to U. S. Light and Heat Corporation, Niagara Falls, N. Y. Taper charge regulator. No. 1,354,798; Oct. 5; v. 279; p. 71.
Bliss, William L., Milwaukee, Wis., assignor, by mesne assignments, to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Lighting equipment and starting arrangement for gasolene-engines on gasolene-motor cars. No. 1,359,022; Nov. 16; v. 280; p. 462.
Blizard, Charles E., assignor to Winchester Repeating Arms Co., New Haven, Conn. Ventilated sight-rib for single-barrel firearms. No. 1,329,361; Feb. 3; v. 271; p. 4.
Bloch, Flora W., Milwaukee, Wis. Coating composition for kitchen utensils. No. 1,328,556; Jan. 20; v. 270; p. 413.
Bloch, George G., *et al.* (See Barnard, Joseph, assignor.)
Bloch, Harris E., *et al.* (See Barnard, Joseph, assignor.)
Bloch, Leon, New York, N. Y. Combined waste and overflow. No. 1,332,793; Mar. 2; v. 272; p. 118.
Bloch, Marie, New York, N. Y. Food product. No. 1,355,731; Oct. 12; v. 279; p. 304.
Block, Alexander, New York, N. Y. Typesetting-machine. No. 1,335,217; Mar. 30; v. 272; p. 793.
Block, Alexander, New York, N. Y. Lock. No. 1,344,613; June 29; v. 275; p. 836.
Block, David J., assignor to Sunbeam Chemical Company, and C. C. Huffman, Chicago, Ill. Dye-soap and mordant. No. 1,361,811; Dec. 14; v. 281; p. 213.
Block Gas Mantle Co., The. (See Risinger, Frank V., assignor.)
Block, Harry E. (See Edison, Karl, assignor.)
Block, Henry C., *et al.* (See Gardner, William E., assignor.)
Block, John F., Knoxville, Ill. Hog catcher and turner. No. 1,342,893; June 8; v. 275; p. 304.
Block, Otto B., assignor of one-fourth to C. E. Hoke, Shippensburg, Pa. Folding bed, dresser, and washstand. No. 1,344,257; June 22; v. 275; p. 699.
Blocker, Leck H., Nash, Tex. Mail carrier or container. No. 1,338,066; Apr. 27; v. 273; p. 652.
Blockouse, Robert J. G., assignor to Alcorn, Blockouse & Co., Philadelphia, Pa. Heating-furnace. No. 1,335,648; Mar. 30; v. 272; p. 873.
Blocksom, Berget H., assignor to Wilson & Co., Inc., Chicago, Ill. Cushion-cover. No. 1,349,258; Aug. 10; v. 277; p. 272.
Blocksom, Berget H., assignor to Wilson & Co., Inc., Chicago, Ill. Refrigerator. No. 1,353,887; Sept. 28; v. 278; p. 565.
Blodgie, Charles W., Buffalo, N. Y. Folding rule. No. 1,331,951; Feb. 24; v. 271; p. 609.
Bloede, Victor G., Catonsville, Md. Manufacturing vegetable glue. No. 1,357,310; Nov. 2; v. 280; p. 21.
Bloedorn, Henry A., Reedsville, Wis. Pump. No. 1,329,950; Feb. 3; v. 271; p. 113.
Bloemker, Henry W., assignor to J. Hancock, Philadelphia, Pa. Wire-fabric machine. No. 1,337,504; Apr. 20; v. 273; p. 476.
Bloesinger, August, Akron, and F. D. Howe, Cuyahoga Falls, Ohio, assignors, by mesne assignments, to International Harvester Company. Drive-belt for pulleys. No. 1,347,674; July 27; v. 276; p. 640.
Blom, Axel V., Berne, Switzerland. Producing asymmetric carbamids. No. 1,351,888; Sept. 7; v. 278; p. 35.
Blom, John P., New York, N. Y. Differential drive and steering mechanism. No. 1,362,076; Dec. 14; v. 281; p. 266.
Blombach, Daniel, Keene, N. H. Attachment for looms. No. 1,334,074; Mar. 16; v. 272; p. 471.
Blomberg, Ulrik I. T., Chicago, Ill. Graduated mechanic's gage. No. 1,334,217; Mar. 16; v. 272; p. 497.
Blomgren, G. A. F., Karlskrona, Sweden. Necktie-retainer. No. 1,354,877; Oct. 5; v. 279; p. 86.
Blomquist, Alfred L., Gowrie, Iowa. Towing device. No. 1,349,556; Aug. 17; v. 277; p. 403.
Blomster, Joel, and J. Schaben, assignors to J. Schaben, Algona, Iowa. Spark-plug. No. 1,354,945; Oct. 5; v. 279; p. 99.
Blomstrom, Carl H., Detroit, Mich. Steering mechanism. No. 1,352,868; Sept. 14; v. 278; p. 261.
Blondeau, Eugene H., Marquette, Mich. Horseshoe. No. 1,328,708; Jan. 20; v. 270; p. 440.
Blood, Burr B., assignor of one-half to G. Heidman and N. A. Street, Chicago, Ill. Cover-support. No. 1,327,978; Jan. 13; v. 270; p. 266.
Blood, Burr B., assignor of one-half to G. Heidman and one-half to N. A. Street, Chicago, Ill. Cover-support. No. 1,331,556; Feb. 24; v. 271; p. 534.
Blood, Harold L., Plainfield, assignor to Niles-Bement-Pond Company, Jersey City, N. J. Feed mechanism for planers. No. 1,350,540; Aug. 24; v. 277; p. 641.
Blood, Louis H. (See Oesterlein, C. D., and Blood, assignors.)
Blood, Robert A. (See Warme and Blood.)
Blood, Robert A. (See Warme, I. F., and Blood.)
Bloom, Axel L., and E. W. Carlson, Kiron, Iowa. Draft-controlling attachment for tractors. No. 1,360,263; Nov. 30; v. 280; p. 819.

Digitized by Google

Bloom, David, Berkeley, Calif. Receptacle-closure. No. 1,353,017; Sept. 14; v. 278; p. 290.
Bloom, Edgar J., Tiffin, Ohio. Oil-cup. No. 1,331,894; Feb. 24; v. 271; p. 599.
Bloom, Edgar J., Tiffin, Ohio. Oil-cup. No. 1,331,895; Feb. 24; v. 271; p. 599.
Bloom, Harry F., Toledo, Ohio. Vacuum oil-cup. No. 1,335,477; Mar. 30; v. 272; p. 841.
Bloom, Harry F., Toledo, Ohio. Vacuum oil-cup. No. 1,351,610; Aug. 31; v. 277; p. 913.
Bloom, John, and S. Schroepfer, Pittsburgh, Pa. Repeating attachment for gramophones. No. 1,358,613; Nov. 9; v. 280; p. 336.
Bloom, Jacob E., Brooklyn, N. Y. Process and apparatus for the electrical treatment in dyeing fiber and fiber products, and dyestuffs and product resulting therefrom. No. 1,333,700; Mar. 16; v. 272; p. 401.
Bloom, Jacob E., Brooklyn, N. Y. Manufacture of loose compounds. No. 1,333,701; Mar. 16; v. 272; p. 402.
Bloom, Jacob E., Brooklyn, N. Y. Process and apparatus for the electrical fixation of nitrogen from air and the products resulting therefrom. No. 1,334,590; Mar. 23; v. 272; p. 614.
Bloom, Jacob E., Brooklyn, N. Y. Electrical process and apparatus for compounding liquids with gases or other components and the products thereof, including carbonating beverages. No. 1,338,352; Apr. 27; v. 273; p. 706.
Bloom, Jacob E., Brooklyn, N. Y. Electrical process and apparatus for the dyeing of furs and other materials and the products resulting therefrom. No. 1,338,353; Apr. 27; v. 273; p. 707.
Bloom, James. (See Johnson, R. W., and Bloom.)
Bloom, John F., St. Joseph, Wis. Valve. No. 1,329,881; Feb. 3; v. 271; p. 101.
Bloom, John S., and A. C. Fenner, Independence, Iowa; said Fenner assignor to said Bloom. Cement-mixer. No. 1,332,880; Mar. 9; v. 272; p. 186.
Bloom, Millard P., Mount Washington, Md. Piston-packing. No. 1,346,806; July 20; v. 276; p. 413.
Bloom, Robert E., Brooklyn, N. Y. Dust-cap for valve-stems. No. 1,330,577; Feb. 10; v. 271; p. 261.
Bloomquist, Charles O., Salt Lake City, Utah. Window-stop. No. 1,336,274; Apr. 6; v. 273; p. 107.
Bloomquist, Ernest V., Minneapolis, Minn. Photo-sticker. No. 1,342,248; June 1; v. 275; p. 125.
Bloomquist, Helmer A., Manistee, Mich. Starting and stopping mechanism for phonographs. No. 1,360,080; Nov. 23; v. 280; p. 714.
Blosser, Mary A., Bever township, Mahoning county, Ohio. Sanitary milk-can cover. No. 1,351,611; Aug. 31; v. 277; p. 913.
Blouen, George, Anchorage, Alaska. Coupling. No. 1,362,523; Dec. 14; v. 281; p. 353.
Bloum, Randolph, Germantown, N. Y. Horseshoe-calk. No. 1,327,853; Jan. 13; v. 270; p. 243.
Blount, Almer L. (See Gore, Jacob L., assignor.)
Blount, Harry, Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Means for grinding and slotting carbon disks and the like. No. 1,345,743; July 6; v. 276; p. 81.
Blount, William H. (See Sleeper, F. H., and Blount.)
Bludworth, William D., Fairoaks, Calif. Gold-saving device. No. 1,327,854; Jan. 13; v. 270; p. 243.
Blue, John C., Brooklyn, N. Y. Envelop construction. No. 1,335,814; Apr. 6; v. 273; p. 21.
Blue, John C., Brooklyn, N. Y. Printing-machine. No. 1,355,531; Oct. 12; v. 279; p. 266.
Bluege, Adam, Chicago, Ill. Bundle or package tying machine. No. 1,342,981; June 8; v. 275; p. 321.
Blum, Adolph, Ridgefield Park, N. J., assignor of one-third to H. L. Vevera, New York, N. Y. Electric sign. No. 1,330,677; Feb. 10; v. 271; p. 280.
Blum, Elias, assignor of one-half to C. M. Markstedt, Oakland, Calif. Wrench. No. 1,338,278; Apr. 27; v. 273; p. 692.
Blum, Harry, New York, N. Y. Film-holder. No. 1,329,749; Feb. 3; v. 271; p. 75.
Blum, Katharine E., New York, N. Y. Bedpan. No. 1,361,746; Dec. 7; v. 281; p. 153.
Blum, Max, Bloomington, assignor to De Remer-Blatchford Company, Chicago, Ill. Oil-filtering attachment for furnaces. No. 1,332,377; Mar. 2; v. 272; p. 39.
Blume, Aaron, New York, N. Y. Thermo-therapeutic appliance. No. 1,355,382; Oct. 12; v. 279; p. 237.
Blume, Charles A., Galesburg, Ill. Mower. No. 1,362,667; Dec. 21; v. 281; p. 433.
Blume, Milton E., New York, N. Y. Copy-holder for typewriters. No. 1,345,986; July 6; v. 276; p. 130.
Blume, Robert A., and P. F. C. Wilcke, Seattle, Wash.; said Wilcke assignor of one-sixth to said Blume. Engine. No. 1,341,255; May 25; v. 274; p. 695.
Blumenberg, Frieda. (See Blumenberg, Henry, Jr., assignor.)
Blumenberg, Henry, Los Angeles, Calif. Destroying scale and the like on citrus trees. No. 1,337,538; Apr. 20; v. 273; p. 482.
Blumenberg, Henry, Jr., Los Angeles, Calif., assignor to F. Blumenberg, New York, N. Y. Composition of matter and making same. No. 1,338,279; Apr. 27; v. 273; p. 692.
Blumenfeld, Leo, New York, N. Y. Game apparatus. No. 1,335,088; Mar. 30; v. 272; p. 769.
Blumrick, George, assignor to Welsbach Company, Gloucester, N. J. Gas-lighting device and making same. No. 1,350,853; Aug. 24; v. 277; p. 701.
Blunt, James G., Schenectady, N. Y. Universal joint. No. 1,340,368; May 18; v. 274; p. 455.
Blunt, James G., Schenectady, N. Y. Grease-cup plug. No. 1,341,411; May 25; v. 274; p. 726.
Blydenburgh, Daniel, South Attleboro, Mass. Stop mechanism for lace-weaving machines. No. 1,335,218; Mar. 30; v. 272; p. 798.
Blydenburgh, Daniel, South Attleboro, Mass. Carriage-threading device. No. 1,338,809; May 4; v. 274; p. 30.
Blye, Harold, assignor to National Brass Company, Grand Rapids, Mich. Hasp-staple. No. 1,327,694; Jan. 13; v. 270; p. 214.
Blye, Harold, assignor to National Brass Company, Grand Rapids, Mich. Latch set. No. 1,327,695; Jan. 13; v. 270; p. 214.
Blystad, Karl A., Kongsvinger, Norway. Wheel for power-driven winter vehicles. No. 1,351,992; Sept. 7; v. 278; p. 55.
Blystone Manufacturing Company. (See Pees, Walter J., assignor.)
Blyth, James. (See Nettle, W. E., Selby, Blyth, and Holman.)
Blyth, John, assignor to Taprell, Loomis & Company, Chicago, Ill. Easel. No. 1,359,662; Nov. 23; v. 280; p. 631.
Blythe, James. (See Nettle, W. E., Selby, Blythe, and Holman.)
Boa, Robert G. C., Chicago, Ill., assignor to The Wahl Company, Wilmington, Del. Mechanical pencil. No. 1,344,434; June 22; v. 275; p. 735.
Boardman, C. H., *et al.* (See Coates, Frank E., assignor.)
Boardman, Charles S. (See Conkling and Boardman.)
Boardman, Charles S., Buffalo, assignor to Lackawanna Steel Company, Lackawanna, N. Y. Pile-follower. No. 1,359,956; Nov. 23; v. 280; p. 690.
Boardman, Harriet A., *et al.*, administratrices. (See Boardman, Solomon.)
Boardman, Henry B., administrator. (See Thompson, Stuart.)
Boardman, Mary S., Binghamton, N. Y. Divided skirt or overalls. No. 1,333,958; Mar. 16; v. 272; p. 449.
Boardman, Solomon, deceased, Binghamton; H. A. Boardman and M. P. Ives, administratrices, Binghamton, N. Y., assignors to M. A. P. Ives. Electric motor. No. 1,337,686; Apr. 20; v. 273; p. 510.
Boardman, Walter L., Decatur, Ill. Spark-plug cleaner. No. 1,347,573; July 27; v. 276; p. 621.
Boas, André, assignor to Societe Anonyme Des Engrenages Citroen, Paris, France. Mechanical screw-jack. No. 1,347,006; July 20; v. 276; p. 452.
Boas, Edward, Indianapolis, Ind. Engine-crosshead. No. 1,332,317; Mar. 2; v. 272; p. 27.
Boas, Frank P., Tamaqua, Pa. Letter-box. No. 1,354,946; Oct. 5; v. 279; p. 99.
Boas, Oliver E., Fort Smith, Ark. Spring-motor. No. 1,337,385; Apr. 20; v. 273; p. 453.
Boasberg, Benjamin, St. Louis, Mo. Petticoat. No. 1,360,362; Nov. 30; v. 280; p. 837.
Bobbitt Dust Collector Company. (See Bobbitt, Robert L., assignor.)
Bobbitt, Robert L., Wichita, Kans., assignor to Bobbitt Dust Collector Company, Kansas City, Mo. Dust-collector. No. 1,354,878; Oct. 5; v. 279; p. 86.
Bobian, John, Southwest, Pa. Street-car. No. 1,338,959; Mar. 16; v. 272; p. 449.
Bobins, Robert, Chicago, Ill. Buckle. No. 1,362,668; Dec. 21; v. 281; p. 434.
Bobo, Walton E., Hattiesburg, Miss., assignor to The Magnolia Company, Chicago, Ill. Curing sweet potatoes or yams. No. 1,353,561; Sept. 21; v. 278; p. 456.
Bobrick, Arthur L. (See Bobrick, Gabriel A. and A. L.)
Bobrick, Gabriel A. and A. L., Los Angeles, Calif. Liquid-dispenser. No. 1,362,077; Dec. 14; v. 281; p. 266.
Bobroff, Bornett L., assignor, by mesne assignments, to E. Dillmann and H. J. Turck, trustees, Milwaukee, Wis. Indicating device for voting-machines. No. 1,328,613; Jan. 20; v. 270; p. 423.
Bobroff, Bornett L., assignor, by mesne assignments, to E. Dillmann and H. J. Turck, trustees, Milwaukee, Wis. Electrical signaling apparatus. No. 1,358,134; Nov. 9; v. 280; p. 240.
Bobrovsky, Alex, Chicago, Ill. Water-motor. No. 1,357,609; Nov. 2; v. 280; p. 77.
Bobst, Charles A., Brooklyn, assignor to National Binding Machine Company, New York, N. Y. Label-detaching device. No. 1,328,814; Jan. 27; v. 270; p. 489.
Boccacini, Blaise, New York, N. Y. Safety-catch for brooches. No. 1,338,280; Apr. 27; v. 273; p. 692.
Boch, Louise H., New York, N. Y. Window-shade mounting. No. 1,338,168; Apr. 27; v. 273; p. 671.
Bochard, Ferdinand D., Rocky Ford, Colo. Bucket-supporting ladder-bracket. No. 1,358,277; Nov. 9; v. 280; p. 268.
Bock Bearing Company, The. (See Bingham, Jeremiah, assignor.)
Bock Bearing Company, The. (See Bock, William E., assignor.)

Digitized by Google

Bock, Herman, Meriden, Conn. Machine for hardening knife-blades. No. 1,350,697; Aug. 24; v. 277; p. 671.
Bock, Louis E. (See Meckert, F. A., and Bock.)
Bock, William A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Side bearing. No. 1,338,763; May 4; v. 274; p. 22.
Bock, William A., Chicago, Ill. Car-mover. No. 1,354,277; Sept. 28; v. 278; p. 645.
Bock, William A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Roller side bearing. No. 1,357,834; Nov. 2; v. 280; p. 121.
Bock, William E., assignor to The Bock Bearing Company, Toledo, Ohio. Roller-bearing unit. No. 1,355,304; Oct. 12; v. 279; p. 222.
Bock, William E., Toledo, Ohio. Vehicle spring suspension. No. 1,361,002; Dec. 7; v. 281; p. 4.
Bockhoff, William F., assignor to National Automatic Tool Company, Richmond, Ind. Adjustable arm for multispindle drills. No. 1,360,081; Nov. 23; v. 280; p. 714.
Bocking, Frederick W., Rifle, Colo. Cushion-support. No. 1,345,987; July 6; v. 276; p. 131.
Boda, Joseph, Plano, Ill., assignor, by mesne assignments, to Moline Plow Company. Quick-detachable plowshare. No. 1,359,663; Nov. 23; v. 280; p. 631.
Bodaly, Elmer W., Coombs, British Columbia, Canada. Drum-gear for logging-engines. No. 1,330,678; Feb. 10; v. 271; p. 280.
Boddie, Clarence A., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical regulator. No. 1,354,160; Sept. 28; v. 278; p. 621.
Boddie, Clarence A., assignor to Westinghouse Electric & Manufacturing Company, Pittsburgh, Pa. Protective means for contact-terminals. No. 1,358,701; Nov. 16; v. 280; p. 399.
Bodé, Robert R., Honolulu, Hawaii. Hinge for artificial legs. No. 1,337,817; Apr. 20; v. 273; p. 535.
Bodell, Allen W., Wilmette, Ill. Combination-engine. No. 1,333,749; Mar. 16; v. 272; p. 410.
Boden, Oscar J. (See Petersen, C. M., and Boden.)
Bodenner, Bert F., Hughenden, Alberta, Canada. Adjustable rear axle for separators. No. 1,363,711; Dec. 28; v. 281; p. 675.
Bodge, Horace A., Brooklyn, N. Y. Clothes-wringer. No. 1,356,186; Oct. 19; v. 279; p. 435.
Bodiker, Dallas A. and D. W., Dayton, Ohio. Safety starting-crank for automobiles. No. 1,360,363; Nov. 30; v. 280; p. 837.
Bodiker, David W. (See Bodiker, Dallas A. and D. W.)
Bodin, Emil P., New York, N. Y. Toy. No. 1,340,109; May 11; v. 274; p. 849.
Bodine, William I., and C. R. Solomon, assignors to United Iron Works Company, Springfield, Mo. Flooded ammonia-condenser. No. 1,329,882; Feb. 3; v. 271; p. 101.
Bodine, William W., and H. L. Patrick, Oilton, Okla. Plunger-rod. No. 1,335,361; Mar. 30; v. 272; p. 820.
Bodley, Mark H., Tyrone, Pa. Gate. No. 1,351,612; Aug. 31; v. 277; p. 913.
Bodman, Walter L., Bromsgrove, England. Tractor. No. 1,342,791; June 8; v. 275; p. 284.
Bodnar, Anthony, Grand Rapids, Mich. Keyless lock. No. 1,331,181; Feb. 17; v. 271; p. 444.
Bodom, Carl V., Tampico, Mexico. Fastening device for lifeboats. No. 1,349,317; Aug. 10; v. 277; p. 283.
Body, John J. (See Bowman, C. L., and Body.)
Boe, Hans M., Minneapolis, Minn. Oil-reservoir. No. 1,336,983; Apr. 13; v. 273; p. 302.
Boe, Hans M., Minneapolis, Minn. Grease-gun. No. 1,339,916; May 11; v. 274; p. 313.
Boe, Hans M., Minneapolis, Minn. Pump-plunger. No. 1,351,228; Aug. 31; v. 277; p. 836.
Boeck, Charles H., assignor to White Frost Refrigerator Company, Jackson, Mich. Water-cooler for refrigerators. No. 1,353,018; Sept. 14; v. 278; p. 290.
Boecler, Albert, Malmö, Sweden. Machine for the production of rubber-coated textures. No. 1,358,614; Nov. 8; v. 280; p. 336.
Boedicker, Herman C., Minneapolis, Minn. Combination-machine for making photoprints on printing-plates by direct contact or projection printing. No. 1,327,752; Jan. 13; v. 270; p. 225.
Boedtcher, Franz A., Bergenfield, N. J. Elevator signaling system. No. 1,333,240; Mar. 9; v. 272; p. 253.
Boedtcher, Franz A., Bergenfield, N. J. Electric switch. No. 1,333,241; Mar. 9; v. 272; p. 252.
Boedtcher, Franz A. Bergenfield, N. J. Combined locking and circuit-controlling device for double doors. No. 1,346,111; July 13; v. 276; p. 216.
Boedtcher, Franz A., Bergenfield, N. J. Elevator-door lock. No. 1,350,698; Aug. 24; v. 277; p. 671.
Boehck, William E., assignor to Revolvator Company, Jersey City, N. J. Tiering-machine. No. 1,342,982; June 8; v. 275; p. 321.
Boehm, Henry C., Jersey City, N. J. Candy package or container. No. 1,334,346; Mar. 23; v. 272; p. 569.
Boehmer, Louis B., Cincinnati, Ohio. Rack for draining vessels. No. 1,363,832; Dec. 28; v. 281; p. 699.
Boehm, Rudolph A., assignor to Rickert-Shaffer Company, Erie, Pa. Collapsible tap. No. 1,345,744; July 6; v. 276; p. 81.
Boehm, Valtin F., Chicago, Ill. Propeller. No. 1,359,150; Nov. 16; v. 280; p. 485.
Boehm, Walter M., Highland Park, Pa. Device for evaporating volatile liquids. No. 1,358,028; Nov. 16; v. 280; p. 444.
Boehmig, Edwin C., Hammond, Ind. Lock for automobiles. No. 1,327,979; Jan. 13; v. 270; p. 267.
Boeing Airplane Company. (See Lambert, Earl M., assignor.)
Boerner, Emil G., and E. H. Ropes, Washington, D. C. Grain-sampler. No. 1,354,016; Sept. 28; v. 278; p. 591.
Boesch, Harry L. (See Chase, A. H., and Boesch.)
Boetcher, Charles, *et al.* (See Kirkpatrick, Frank M., assignor.)
Boettcher, Albert B., Pittsburgh, Pa. Valve-gear. No. 1,356,506; Oct. 19; v. 279; p. 496.
Boettigheimer, Bruno W., Brooklyn, N. Y. Jeweler's punch. No. 1,358,510; Nov. 9; v. 280; p. 316.
Boettner, Felix. (See Bailey, G. C., and Boettner.)
Boettner, John F., Watson, Mo. Horizontal windmill. No. 1,334,882; Mar. 23; v. 272; p. 670.
Bogaerts, Hubert, Berlin-Halensee, Germany. Manufacturing reproduction of paintings, maps, wall-papers with relievo patterns and the like. No. 1,346,807; July 20; v. 276; p. 413.
Bogart, John A., Port Chester, assignor to Alberger Gas Engine Company, Buffalo, N. Y. Expansion-joint. (Reissue.) No. 14,906; July 6; v. 276; p. 153.
Bogart, John C., assignor of one-half to P. R. Dismore, Bay City, Mich. Differential gearing. No. 1,351,737; Sept. 7; v. 278; p. 5.
Bogaty, Hermann. (See Palen, W. D., and Bogaty.)
Bogda, Frank H., Horicon, Wis. Stock-watering bowl. No. 1,337,636; Apr. 20; v. 273; p. 500.
Bogda, Frank H., Horicon, Wis. Stanchion-alinement device. No. 1,359,224; Nov. 16; v. 280; p. 499.
Bogardus, William H., Chicopee, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Service-tag. No. 1,332,421; Mar. 2; v. 272; p. 47.
Boggs, Charles R., Arlington Heights, Mass., assignor to Simplex Wire and Cable Company. Vulcanized rubber. No. 1,364,055; Dec. 28; v. 281; p. 742.
Boggs, Henry C., Shamrock, Okla. Lever valve-lock. No. 1,363,225; Dec. 28; v. 281; p. 582.
Boggs, Lemuel S., assignor to Westinghouse Electric and Manufacturing Company, Springfield, Mass. Section-insulator. No. 1,357,215; Nov. 2; v. 280; p. 3.
Boggs, Samuel L., Ivanhoe, Va. Eliminating volatile matter and gases from ores, minerals, and clays. No. 1,363,387; Dec. 28; v. 281; p. 613.
Bogi, Tony, Nanty Glo, Pa. Duplex lighting system. No. 1,358,278; Nov. 9; v. 280; p. 268.
Bogorad, Henry. (See Money, William C., assignor.)
Bogucki, Frank, Fairfield, Conn. Ship construction. No. 1,332,199; Mar. 2; v. 272; p. 4.
Bohanan, Budd D., Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for removing surplus material. No. 1,351,153; Aug. 31; v. 277; p. 821.
Bohannon, David D., Berkeley, Calif. Resilient wheel. No. 1,345,827; July 6; v. 276; p. 98.
Bohanon, Budd D., Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Tip-measuring apparatus. No. 1,346,167; July 13; v. 276; p. 227.
Bohen, Michael M., Casper, Wyo. Shoveling-machine. No. 1,353,142; Sept. 21; v. 278; p. 374.
Bohlander, Wilbur R., Piqua, Ohio. Aeroplane. No. 1,355,751; Oct. 12; v. 279; p. 308.
Bohlender, Frederick, Oregon City, Oreg. Saw-set. No. 1,333,828; Mar. 16; v. 272; p. 425.
Bohli, Jacques, Obach, Solothurn, assignor to Firm Scintilla, Solothurn, Switzerland. High-voltage-current-distributing apparatus for electric ignition apparatus of internal-combustion engines. No. 1,335,938; Apr. 6; v. 273; p. 43.
Böhting, Rudolf H., assignor to the firm Rohrbogenwerk G. m. b. H., Hamburg, Germany. Method and device for manufacturing pipe-bends, serpentines, and the like. No. 1,353,714; Sept. 21; v. 278; p. 488.
Bohlman, Ernest A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone. No. 1,341,105; May 25; v. 274; p. 667.
Bohn, Gebhard C., St. Paul, Minn. Refrigerator-closure. No. 1,329,453; Feb. 3; v. 271; p. 21.
Böhn, Ingebret, Sörumsanden, Norway. Tunneling-machine. No. 1,328,118; Jan. 13; v. 270; p. 293.
Bohre, Anton C., deceased, Christiania; K. C. Bohre, executrix, Bergen, Norway. Concentrating nitric and sulfuric acid. No. 1,338,418; Apr. 27; v. 273; p. 718.
Bohre, Anton C., deceased, K. C. Bohre, executrix, Bergen, Norway. Manufacture of fertilizers. No. 1,354,719; Oct. 5; v. 279; p. 55.
Bohre, Anton C., deceased; K. C. Bohre, executrix, assignor to Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Christiania, Norway. Concentration of sulfuric acid. No. 1,353,488; Sept. 21; v. 278; p. 433.
Bohre, Katharina C., executrix. (See Bohre, Anton C.)
Boig, James H. C., Oklahoma, Okla. Cotton-picker. No. 1,341,039; May 25; v. 274; p. 654.
Boiler, Edward V., West Side, Iowa. Aeroplane. No. 1,353,212; Sept. 21; v. 278; p. 388.

Digitized by Google

Alphabetical list of patentees—Continued.

Boillot, Maurice L., and J. Daudignac, Moutiers, France. Manufacture of cements and similar products. No. 1,332,422; Mar. 2; v. 272; p. 48.
Bois, Nathaniel, San Francisco, Calif. Stair structure. No. 1,353,377; Sept. 21; v. 278; p. 420.
Boisselier, Félix F., Colombes, France. Solder for aluminium. No. 1,344,165; June 22; v. 275; p. 682.
Boisvert, Philippe, Lowell, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,362,114; Dec. 14; v. 281; p. 274.
Boisvert, née Pinard, M. L., Montreal, Quebec, Canada. Wrinkle-remover. No. 1,356,112; Oct. 19; v. 279; p. 420.
Boixeda, Daniel, Barcelona, Spain. Moving-picture apparatus. No. 1,336,996; Apr. 13; v. 273; p. 305.
Boje, Rudolf W., Jr., Buffalo, N. Y. Tongue-ball. No. 1,352,047; Sept. 7; v. 278; p. 65.
Bojko, Iwan, Rome, N. Y. Combined brush and comb. No. 1,359,570; Nov. 23; v. 280; p. 613.
Bokelund, Algot H. A., deceased; H. Bokelund, administrator, Stockholm, Sweden. Ball-bearing. No. 1,356,848; Oct. 26; v. 279; p. 611.
Bokelund, Hjalmar, administrator. (See Bokelund, Algot H. A.)
Boker, Vitus A., Minneapolis, assignor to The E. G. Staude Manufacturing Co., St. Paul, Minn. Radiator-fan-supporting means. No. 1,352,869; Sept. 14; v. 278; p. 261.
Boland, Francis P., Providence, R. I. Drying process and apparatus. No. 1,332,706; Mar. 2; v. 272; p. 101.
Boland, Harry, Chicago, Ill. Backwater-trap. No. 1,354,879; Oct. 5; v. 279; p. 86.
Boland, Peter F., New York, N. Y. Window-shade bracket. No. 1,332,794; Mar. 2; v. 272; p. 118.
Bolander, Carl A. K., Chicago, Ill. Bedclothes-support. No. 1,361,812; Dec. 14; v. 281; p. 213.
Bolard, David A., Llanerch, Pa. Toothbrush. No. 1,360,615; Nov. 30; v. 280; p. 888.
Bold, Fred, Los Angeles, Calif. Combined microscope and compass. No. 1,331,093; Feb. 17; v. 271; p. 428.
Bolden, George W., Philadelphia, Pa. Trolley-guide box and shield. No. 1,341,878; June 1; v. 275; p. 52.
Boldizzoni, Teobaldo. (See Terragni, M., and Boldizzoni.)
Boldt, Charles F. A., McIntosh, Minn. Needle-threader. No. 1,356,336; Oct. 19; v. 279; p. 464.
Boldt, Herman E., assignor to Wood Tire Silo Company, Sheboygan Falls, Wis. Sectional studding for silos. No. 1,354,720; Oct. 5; v. 279; p. 55.
Bolduc, William H., Chester, assignor to Diamond State Fibre Company, Bridgeport, Pa. Cover for rollers and applying same. No. 1,341,612; May 25; v. 274; p. 764.
Bole, George A. (See Shaw, J. B., and Bole.)
Bolen, Charles C., Marion, and C. E. McKee, Columbus, Ohio. Child's vehicle. No. 1,359,957; Nov. 23; v. 280; p. 690.
Bolender, Augustus B., Muncie, Ind. Gear-holding chuck. No. 1,330,998; Feb. 17; v. 271; p. 410.
Bolens, Harry W., Port Washington, Wis. Chair-iron. No. 1,330,427; Feb. 10; v. 271; p. 234.
Boles, Clarence, Hugoton, Kans. Leaf-spring. No. 1,327,016; Jan. 6; v. 270; p. 26.
Boles, Edwin D., and E. A. Undersee, Boston, Mass., assignors to General Electric Company. Spinning-frame control. No. 1,358,409; Nov. 9; v. 280; p. 297.
Bolfing, Arthur J., San Francisco, Calif. Rotary engine. No. 1,336,997; Apr. 13; v. 273; p. 305.
Bolger, Robert S. (See Masury, A. F., and Bolger.)
Bolger, Robert S., assignor to International Motor Company, New York, N. Y. Cooling system for motor fire-engines. No. 1,335,552; Mar. 30; v. 272; p. 855.
Bolger, Robert S., New York, assignor of one-half to G. F. Whistler, Brooklyn, N. Y. Manufacturing paper barrels. No. 1,340,110; May 11; v. 274; p. 350.
Bolger, Robert S., Richmond Hill, assignor to International Motor Company, New York, N. Y. Generator set. No. 1,343,494; June 15; v. 275; p. 485.
Bolgiano, Charles J., Baltimore, Md. Correspondence-blank. No. 1,349,547; Aug. 10; v. 277; p. 328.
Bolin, Eugene E., *et al.* (See Miske, Adolph, assignor.)
Boling, Arthur R. (See Reynolds, P. M., and Boling.)
Bollheimer, William, Dayton, Ohio. Starter for explosive-engines. No. 1,331,798; Feb. 24; v. 271; p. 580.
Bollinger, George W., Columbus, Ohio. Baking apparatus. No. 1,346,076; July 6; v. 276; p. 148.
Bollinger, Morgan D., San Jose, Calif. Harrow. No. 1,355,638; Oct. 12; v. 279; p. 286.
Bolls, William W., Washington, D. C. Pulp-canal file. No. 1,353,019; Sept. 14; v. 278; p. 290.
Bolls, William W., Washington, D. C. Dental instrument. No. 1,356,755; Oct. 26; v. 279; p. 592.
Boltas, Anthony T., Plainfield, N. J. Electric apparatus. No. 1,356,484; Oct. 19; v. 279; p. 492.
Bolthoff, Henry, Denver, Colo. Concentrator. No. 1,327,902; Jan. 13; v. 270; p. 252.
Bolthoff, Henry, Denver, Colo. Head-motion for concentrating-tables. No. 1,332,595; Mar. 2; v. 272; p. 81.
Bolton, James, Council Bluffs, Iowa. Road-maintainer. No. 1,328,910; Jan. 27; v. 270; p. 509.
Bolton, Jesse A., Ada, Okla. Flood-gate. No. 1,329,951; Feb. 3; v. 271; p. 114.
Bolton, John J., *et al.* (See Stevenson, Peter G., assignor.)
Bolton, John T., assignor of one-half to The Forsyth Dyeing Co., New Haven, Conn. Web stretching and guiding device. No. 1,343,385; June 15; v. 275; p. 464.
Bolton, Wilford, Accrington, and E. T. Bishop, Reading, England. Means for measuring the pitch of screws and the like. No. 1,338,670; May 4; v. 274; p. 4.
Boltshauser, Conrad, assignor to Company Phoebus, E. G., Zurich, Switzerland. Electric pocket-lamp. No. 1,327,017; Jan. 6; v. 270; p. 26.
Boltshauser, Conrad, assignor to Comp., Phoebus E. G., Zurich, Switzerland. Electric pocket-lamp. No. 1,346,104; July 13; v. 276; p. 215.
Boltzman, David, St. Louis, Mo. Aluminum heel for ladies' shoes. No. 1,363,388; Dec. 28; v. 281; p. 613.
Bolus, Glenn H. (See Brown, J. R., and Bolus.)
Bolus, Glenn H., assignor to The Ohio Brass Company, Mansfield, Ohio. Trolley-wire clamp. No. 1,364,026; Dec. 28; v. 281; p. 736.
Bolus, Glenn H., assignor to The Ohio Brass Company, Mansfield, Ohio. Trolley-wire clamp. No. 1,364,027; Dec. 28; v. 281; p. 736.
Bolus, Glenn H., assignor to The Ohio Brass Company, Mansfield, Ohio. Insulated trolley-hanger. No. 1,364,028; Dec. 28; v. 281; p. 737.
Boman, Claes W., assignor to Eagle Pencil Company, New York, N. Y. Pencil. No. 1,357,835; Nov. 2; v. 280; p. 121.
Boman, Claes W., assignor to Eagle Pencil Company, New York, N. Y. Fountain-pen clip. No. 1,358,511; Nov. 9; v. 280; p. 316.
Bombardie, Charles H., South Bend, Ind., assignor to Wirebounds Patents Company, Kittery, Me. Box. No. 1,329,332; Jan. 27; v. 270; p. 586.
Bombardie, Charles H., South Bend, Ind., assignor to Wirebounds Patents Company, Kittery, Me. Box. No. 1,329,333; Jan. 27; v. 270; p. 586.
Bombardie, Charles H., South Bend, Ind., and P. F. Wegner, Chicago, Ill., assignors to Wirebounds Patents Company, Kittery, Me. Box. No. 1,347,675; July 27; v. 276; p. 641.
Bombelli, Angelo, Milan, Italy. Collapsible door, partition, and the like and operating mechanism therefor. No. 1,351,229; Aug. 31; v. 277; p. 836.
Bomberg, Julius E., Detroit, Mich. Molding-machine. No. 1,343,386; June 15; v. 275; p. 464.
Bommer, Emil, Brooklyn, N. Y. Web and barrel construction for spring-hinges. No. 1,332,456; Mar. 2; v. 272; p. 54.
Bommer, Emil, Brooklyn, N. Y. Spring-pivot. No. 1,332,881; Mar. 9; v. 272; p. 186.
Bonali, Frank, Clifton, N. J., assignor to C. De Felice, New York, N. Y. Anti-aircraft guns. No. 1,340,111; May 11; v. 274; p. 350.
Bonari, Ero. (See Vannucci, Arturo, assignor.)
Bonawitt, Myron W., Toledo, Ohio. Pipe-fishing tool. No. 1,363,226; Dec. 28; v. 281; p. 582.
Bond, Albert E., Detroit, Mich. Toy bowling-alley. No. 1,329,952; Feb. 3; v. 271; p. 114.
Bond, Edmund M., Detroit, Mich. Starter for internal-combustion engines. No. 1,337,118; Apr. 13; v. 273; p. 328.
Bond, Estel G., Long Beach, assignor to J. K. Selenkow, Venice, Calif. Toy. No. 1,355,752; Oct. 12; v. 279; p. 308.
Bond, Ignatius, Evanston, Ill. Controlling mechanism for electric motors for ironing-machines. No. 1,339,917; May 11; v. 274; p. 313.
Bond, James W., Columbia, S. C. Rim-tool. No. 1,326,907; Jan. 6; v. 270; p. 4.
Bond, John P., Portland, Oreg. Brake-band. No. 1,350,985; Aug. 24; v. 277; p. 726.
Bond, O. E., and E. T. Earl, Asotin, Wash. Trailer-vehicle brake. No. 1,354,947; Oct. 5; v. 279; p. 99.
Bond, Richard C. (See Norris, William H., assignor.)
Bond, William G., Wilmington, Del. Gun-wad. No. 1,358,279; Nov. 9; v. 280; p. 269.
Bone, Roberto C., Managua, Nicaragua, assignor of one-half to Esteva-Ruiz & Co., New York, N. Y. Substitute for turpentine and making same. No. 1,343,387; June 15; v. 275; p. 464.
Bone, Roberto C., Managua, Nicaragua, assignor of one-half to M. A. Esteva, New York, N. Y. Substitute for linseed-oil and making same. No. 1,347,074; July 20; v. 276; p. 466.
Bone, William A., J. W. Wilson, Leeds, and C. D. McCourt, London, England, assignors, by mesne assignments, to Surface Combustion, Inc., Wilmington, Del. Combustion of fuel. No. 1,349,040; Aug. 10; v. 277; p. 228.
Bonebright, Gertrude R., Grand Rapids, Mich. Garment-supporter. No. 1,344,856; June 29; v. 275; p. 882.
Bonelli, George A., Kingman, Ariz. Driving mechanism for auxiliary seats for chairs. No. 1,359,786; Nov. 23; v. 280; p. 656.
Bonelli, George A., Kingman, Ariz. Ditch-digger and grading machine. No. 1,360,874; Nov. 30; v. 280; p. 938.
Bonham, Guy L., West Hartford, Conn. Car-mover. No. 1,343,430; June 15; v. 275; p. 472.
Bonham, Luther L., Knoxville, Tenn. Air-brake. No. 1,359,664; Nov. 23; v. 280; p. 631.

Digitized by Google

Boni, Charles, assignor of one-third to F. G. Sadlier, Regina, Saskatchewan, Canada. Stooker. No. 1,356,503; Oct. 19; v. 279; p. 496.
Bonnaval, Robert, Pittsburgh, Pa. Electrical radiator. No. 1,335,423; Mar. 30; v. 272; p. 881.
Bonnell, William A., New York, N. Y. Outlet-box. No. 1,330,620; Feb. 10; v. 271; p. 269.
Bonner, Joseph C., Toledo, Ohio. Dumping mechanism. No. 1,333,289; Mar. 9; v. 272; p. 263.
Bonner, Joseph C., Toledo, Ohio. Road-vehicle. No. 1,333,290; Mar. 9; v. 272; p. 263.
Bonner, Joseph C., Toledo, Ohio. Hoisting mechanism. No. 1,358,512; Nov. 9; v. 280; p. 316.
Bonner, Walter D., Salt Lake City, Utah. Purifying beet-molasses. No. 1,362,078; Dec. 14; v. 281; p. 267.
Bonnet, Frank C., Chicago, Ill. Talking-machine. No. 1,356,594; Oct. 26; v. 279; p. 561.
Bonnet, Gottlieb, Lincoln Valley, N. D. Insect-trap. No. 1,353,310; Sept. 21; v. 278; p. 406.
Bonney, Bick R., assignor to M. J. Foley and W. P. Monahan, Omaha, Nebr. Road-forming machine. No. 1,350,060; Aug. 17; v. 277; p. 500.
Bonney, Bick R., assignor of one-third to J. W. Elwood and one-third to C. F. Betcke, Omaha, Nebr. Road-maintainer. No. 1,357,685; Nov. 2; v. 280; p. 92.
Bonney Vise & Tool Works. (See Rohrbach, George C., assignor.)
Bono, Michelangelo, New York, N. Y. Delivering apparatus. No. 1,340,748; May 18; v. 274; p. 527.
Bonom, Alfred, Paterson, N. J. Steam-turbine. No. 1,331,313; Feb. 17; v. 271; p. 467.
Bonom, Alfred, Paterson, N. J. Labyrinth packing. No. 1,354,235; Sept. 28; v. 278; p. 636.
Bonsall, Charles D., Parnassus, Pa., assignor to W. P. Murphy, New York, N. Y. Car-roof. No. 1,330,975; Feb. 17; v. 271; p. 406.
Bonsor, Charles E., Lorain, Ohio. Furnace-roof construction. No. 1,330,052; Feb. 10; v. 271; p. 164.
Bonsteel, Charles L., Moose Jaw, Saskatchewan, Canada. Solder-flux. No. 1,332,160; Feb. 24; v. 271; p. 647.
Bonte, George W., New York, N. Y. Receptacle. No. 1,330,780; Feb. 17; v. 271; p. 368.
Boode, Axel. (See Nelson, N. S., and Boode.)
Booge, James E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Removing or decreasing objectionable odors from treated oils. No. 1,337,339; Apr. 20; v. 273; p. 445.
Booge, James E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Removing or decreasing objectionable odors from treated oils. No. 1,357,836; Nov. 2; v. 280; p. 121.
Booker, William B., Freeport, Tex. Oil-burner. No. 1,352,347; Sept. 7; v. 278; p. 121.
Boom, Albert T. (See Boom, Mino and A. T.)
Boom, Mino and A. T., Bladen, Nebr. Automatic mail catching and delivering apparatus. No. 1,329,576; Feb. 3; v. 271; p. 44.
Boone, Samuel R., Baltimore, Md. Call-box. No. 1,359,023; Nov. 16; v. 280; p. 462.
Boorner, Arno, Scheveningen, Netherlands. Gem grinding and polishing machine. No. 1,331,480; Feb. 28; v. 271; p. 519.
Boos, August N. E., New York, N. Y. Date and time service protective-perforation recording check and receipt. No. 1,330,388; Feb. 10; v. 271; p. 223.
Boosey, Edward W. N., Detroit, Mich. Cover for floor-sumps. No. 1,328,262; Jan. 20; v. 270; p. 356.
Booth, Augustus C., Los Angeles, Calif. Vertically-adjustable engine-lathe. No. 1,327,604; Jan. 6; v. 270; p. 135.
Booth, Augustus D. (See Burner, W. L., Cotton, and Booth.)
Booth, Charles W., Chicago, Ill. Golf-club. No. 1,349,805; Aug. 17; v. 277; p. 452.
Booth, Charles W., Chicago, Ill. Golf-club. No. 1,349,806; Aug. 17; v. 277; p. 452.
Booth, Earl C., assignor to Holcomb & Hoke Manufacturing Company, Indianapolis, Ind. Corn-popping machine. No. 1,332,023; Feb. 24; v. 271; p. 622.
Booth, Earl C., Indianapolis, Ind., assignor to Holcomb & Hoke Manufacturing Company. Peanut-roaster. No. 1,350,541; Aug. 24; v. 277; p. 641.
Booth, Earl C., Indianapolis, Ind., assignor to Holcomb & Hoke Manufacturing Company. Display device. No. 1,350,542; Aug. 24; v. 277; p. 641.
Booth Electric Furnace Co., The. (See Booth, William K., assignor.)
Booth, Frank, Bowlus, Minn. Vehicle spring and axle connection. No. 1,334,883; Mar. 23; v. 272; p. 671.
Booth, Frederick, Laporte, Ind. Spiral tool-driver. No. 1,330,053; Feb. 10; v. 271; p. 164.
Booth, George W., Islington, Ontario, Canada. Tunnel-kiln. No. 1,333,099; Mar. 9; v. 272; p. 228.
Booth, Irving E. (See Brice, A. W., and Booth.) (Reissue.)
Booth, James, Philadelphia, Pa. Machine for covering wire with fibrous material. No. 1,343,076; June 8; v. 275; p. 340.
Booth, James A., Whitbay, W. Va. Emergency-switch. No. 1,341,354; May 25; v. 274; p. 715.
Booth, John, Indianapolis, Ind. Clothes and hat stand. No. 1,341,106; May 25; v. 274; p. 667.
Booth, Joseph B. S., Sidcup, England. Carbureter. No. 1,362,468; Dec. 14; v. 281; p. 342.
Booth, Minnie C. (See Kendrick, Karl A., assignor.)
Booth, Wilfred E., assignor to Western Electric Company, Incorporated, New York, N. Y. Radio-cabinet. No. 1,361,813; Dec. 14; v. 281; p. 213.
Booth, William C., Chicago, Ill. Shower-bath apparatus. No. 1,339,593; May 11; v. 274; p. 252.
Booth, William K., assignor, by mesne assignments, to The Booth Electric Furnace Co., Chicago, Ill. Electric furnace. No. 1,332,795; Mar. 2; v. 272; p. 118.
Booth, William N., Detroit, Mich. Trailer draft connection. No. 1,327,265; Jan. 6; v. 270; p. 72.
Booth, William N., Detroit, Mich. Vehicle-wheel and forming same. No. 1,334,013; Mar. 16; v. 272; p. 460.
Booth, William N., Detroit, Mich. Demountable-rim support for motor-vehicles. No. 1,354,161; Sept. 28; v. 278; p. 621.
Booth, William S., Owosso, Mich. Automobile-bumper. No. 1,328,786; Jan. 20; v. 270; p. 455.
Booth, William T., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone set. No. 1,330,234; Feb. 10; v. 271; p. 198.
Booth, William T., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone set. No. 1,341,007; May 25; v. 274; p. 648.
Booth, William T., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-transmitter. No. 1,352,939; Sept. 14; v. 278; p. 274.
Booth, William T., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Transmitter-support. No. 1,362,597; Dec. 21; v. 281; p. 419.
Boothman, Lawrence, Manchester, England, assignor to Westinghouse Electric and Manufacturing Company. Electric regulating-rheostat. No. 1,351,019; Aug. 31; v. 277; p. 795.
Booty, Stanley S., Sutton, England. Device adapted to contain powder. No. 1,334,218; Mar. 16; v. 272; p. 498.
Booty, Stanley S., Sutton, England. Toilet article. No. 1,351,364; Aug. 31; v. 277, p. 865.
Borbeck, Martin, assignor to Houston Fountain Pen Company, Sioux City, Iowa. Fountain-pen. No. 1,342,736; June 8; v. 275; p. 272.
Borbeck, Martin O., Sioux City, Iowa. Lead-pencil. No. 1,342,416; June 8; v. 275; p. 210.
Borcherdt, Raymond, Naturita, Colo., assignor of one-half to C. C. Couch, Burns, Oreg. Blower attachment for drills. No. 1,341,536; May 25; v. 274; p. 750.
Borchert, Albert G. Cleveland, Ohio. Concrete construction. No. 1,348,623; Aug. 3; v. 277; p. 96.
Borck, Charles E. O., assignor to W. A. Ruth, Philadelphia, Pa. Automobile-lock. No. 1,360,616; Nov. 30; v. 280; p. 888.
Borden Book Stack Company, The. (See Borden, William A., assignor.)
Borden Company, The. (See Nonneman, Ira W., assignor.)
Borden, William A., assignor to The Borden Book Stack Company, Westport, Conn. Book-shelf. No. 1,340,317; May 18; v. 274; p. 445.
Borders, Harry L., and E. A. Lewis, assignors to Standard Corrugated Box Co., St. Louis, Mo. Hinge for corrugated boxes. No. 1,348,844; Aug. 10; v. 277; p. 190.
Bordigion, John, assignor to Eastman Kodak Company, Rochester, N. Y. Folding camera. No. 1,356,595; Oct. 26; v. 279; p. 561.
Bore, Henry A. (See Bore, John W. and H. A.)
Bore, John W. and H. A., Liverpool, England. Rope-teasing mechanism. No. 1,360,875; Nov. 30; v. 280; p. 938.
Borg, Andrew O., Richmond, Va. Bench-clamp. No. 1,362,222; Dec. 14; v. 281; p. 295.
Borger, Henry E. (See Libby, A. D. T., and Borger.)
Borger, Henry E., assignor to Splitdorf Electrical Company, Newark, N. J. Mounting for dynamo-brushes. No. 1,342,583; June 8; v. 275; p. 243.
Borglin, Joseph N., Seattle, Wash. Vegetable-digger. No. 1,362,836; Dec. 21; v. 281; p. 466.
Borgner, Conrad W., Lowville, N. Y. Sanitary closure for bottles. No. 1,343,760; June 15; v. 275; p. 538.
Boring, Greenberry, Johnson City, Tenn. Valve-grinding apparatus. No. 1,362,469; Dec. 14; v. 281; p. 342.
Borkey, Stephen F., Flint, Mich. Forming axles. No. 1,353,987; Sept. 28; v. 278; p. 585.
Borkin, Israel, New York, N. Y. Device for supporting and adjusting matrix-bands. No. 1,359,665; Nov. 23; v. 280; p. 632.
Booz, William C., Vanburen, Ind. Pulling-machine. No. 1,332,024; Feb. 24; v. 271; p. 623.
Boozer, Arthur G., Providence, R. I., assignor of one-half to G. Hill, Tucapau, S. C. Stripping mechanism for carding-machines. No. 1,327,696; Jan. 13; v. 270; p. 214.
Bopp, Arnold, & Co. (See Greinacher, Heinrich, assignor.)
Bopp, Charles W., Leechburg, Pa. Clutch-lever-lock device. No. 1,333,535; Mar. 9; v. 272; p. 309.
Borchers, George W., San Jose, Calif. Supplementary jaws for vises. No. 1,336,610; Apr. 13; v. 273; p. 231.
Borchert, Ralph W., St. Louis, Mo. Marine-motor attachment. No. 1,328,313; Jan. 20; v. 270; p. 367.

Digitized by Google

Alphabetical list of patentees—Continued.

Bordahl, Even, Roslyn, S. D. Spark-plug tester. No. 1,330,161; Feb. 10; v. 271; p. 184.
Bordeaux, Pearl, Mount Desert, Me. Device for removing valves and their seats or cages. No. 1,328,362; Jan. 20; v. 270; p. 376.
Bordeaux, Pearl, Mount Desert, Me. Device for facilitating the removal of valves. No. 1,334,131; Mar. 16; v. 272; p. 282.
Borden, Henry M., Minneapolis, Minn. Printing apparatus. No. 1,333,009; Mar. 9; v. 272; p. 211.
Borener, Albert J., Chicago, Ill. Oil-burning furnace. No. 1,328,075; Jan. 13; v. 270; p. 285.
Borgarello, Octavio E., Buenos Aires, Argentina. Machine for securing the felts to piano-hammers. No. 1,327,018; Jan. 6; v. 270; p. 27.
Borgarello, Octavio E., Buenos Aires, Argentina. Screw-spindle for stools, chairs, and the like. No. 1,332,200; Mar. 2; v. 272; p. 4.
Borgarello, Octavio E., Buenos Aires, Argentina. Revolving seat for piano-stools. No. 1,332,201; Mar. 2; v. 272; p. 5.
Borgenicht, Louis, New York, N. Y. Dress. No. 1,331,799; Feb. 24; v. 271; p. 580.
Borger, Henry E., assignor to Splitdorf Electrical Company, Newark, N. J. Regulator for electric generators. No. 1,336,416; Apr. 13; v. 273; p. 194.
Borgesson, Emil, Washta, Iowa. Attachment for drags. No. 1,329,953; Feb. 3; v. 271; p. 114.
Borglin, Hans W., Streator, Ill. Pencil attachment. No. 1,328,076; Jan. 13; v. 270; p. 285.
Borland, Bruce, Chicago, Ill. Camera. No. 1,351,279; Aug. 31; v. 277; p. 847.
Borman, Emil, Chicago, Ill. Tire-rebuilding device. No. 1,354,595; Oct. 5; v. 279; p. 30.
Borman, Sydney, Jersey City, N. J., assignor to Motion Picture Apparatus Company, Inc., New York, N. Y. Cleaning and polishing machine for motion-picture films. No. 1,356,903; Oct. 26; v. 279; p. 622.
Born, Louis A., Washington, D. C. Engine. No. 1,343,612; June 15; v. 275; p. 508.
Borneman, Charles M., Allentown, Pa. Auto-jack. No. 1,332,596; Mar. 2; v. 272; p. 81.
Bornstein, Max, Revere, Mass. Display-tray. No. 1,355,072; Oct. 5; v. 279; p. 124.
Borofsky, Allen, Roxbury, Mass. Automatic locking device for steering-gear mechanisms. No. 1,341,256; May 25; v. 274; p. 695.
Borough, Willard L., Fullerton, Calif. Combination rod-socket and overshot fishing-tool. No. 1,347,203; July 20; v. 276; p. 490.
Borowski, Martin. (See Lopatka, John, assignor.)
Borresen, Helge A., Marquette, Mich., assignor of one-half to E. R. Hills, Chicago, Ill. Watch-barrel. No. 1,339,941; May 11; v. 274; p. 318.
Borrowman, George L., New Rochelle, N. Y. Water-softening compound and producing same. No. 1,348,977; Aug. 10; v. 277; p. 216.
Borst, William E., assignor of one-half to C. C. Gilleo, Grand Rapids, Mich. Mortise-mold. No. 1,353,888; Sept. 28; v. 278; p. 565.
Borst, William E., and C. C. Gilleo, Grand Rapids, Mich. Crucible-mouthpiece for linotype-machines. No. 1,327,697; Jan. 13; v. 270; p. 214.
Bort, Fred A., Hopkinton, Iowa. Stock-loading rack. No. 1,360,082; Nov. 23; v. 280; p. 715.
Borton, Fred C., Fayette, Ohio. Feed-trough. No. 1,334,075; Mar. 16; v. 272; p. 472.
Borton, George W. (See Hartman, W. H., and Borton.)
Bory, Georges H. L. G. (See Galliot, N. J. A., and Bory.)
Boryk, John, Ansonia, Conn. Hammer toy. No. 1,333,242; Mar. 9; v. 272; p. 254.
Boryk, John, Ansonia, Conn. Safe-lock. No. 1,337,886; Apr. 20; v. 273; p. 453.
Boryk, John, Ansonia, Conn. Noisy toy. No. 1,349,259; Aug. 10; v. 277; p. 272.
Borzykowski, Benno, Cleveland, Ohio. Production of masses or solutions free from air or other gases. No. 1,357,946; Nov. 9; v. 280; p. 203.
Borzykowski, Benno, Cleveland, Ohio. Apparatus for the production of masses or solutions free from air and other gases. No. 1,357,947; Nov. 9; v. 280; p. 204.
Boscacci, Joseph, Oakland, Calif. Receptacle. No. 1,332,099; Feb. 24; v. 271; p. 637.
Bosch Aktiengesellschaft, Firm of Robert. (See Woerner, Eugen, assignor.)
Bosch, Carl, A. Mittasch, and C. Beck, Ludwigshafen-on-the-Rhine, Germany, assignors, by mesne assignments, to The Chemical Foundation, Inc. Producing hydrogen. No. 1,330,772; Feb. 10; v. 271; p. 298.
Bosch, Carl, Ludwigshafen-on-the-Rhine, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Manufacture of urea and intermediate products. No. 1,344,673; June 29; v. 275; p. 847.
Bosch, Robert, Aktiengesellschaft. (See Kratz, Franz, assignor.)
Boser, William H., Minneapolis, Minn. Platen-press gage. No. 1,333,829; Mar. 16; v. 272; p. 425.
Boshka, Joseph K. (See Jurevich, John, assignor.)
Bosley, Allen E., St. Louis, Mo. Front-axle brace. No. 1,354,162; Sept. 28; v. 278; p. 621.
Boss, Leigh C. (See Perl, E. G., and Boss.)
Bossart, Shirley H., Birmingham, Ala. Air-pump. No. 1,352,348; Sept. 7; v. 278; p. 122.
Bosse, Charles O., Tacoma, Wash. Adjustable countersink. No. 1,346,105; July 13; v. 276; p. 216.
Bosse, William F., Stamford, Tex. Swingletree. No. 1,347,362; July 20; v. 276; p. 522.
Bossert, Charles P., Milwaukee, Wis. Dispensing-valve. No. 1,358,280; Nov. 9; v. 280; p. 269.
Bossert, Charles P., Milwaukee, Wis. Apparatus for dipping hides or other articles. No. 1,359,225; Nov. 16; v. 280; p. 499.
Bossert, Charles P., Milwaukee, Wis. Web-regulating mechanism. No. 1,360,717; Nov. 30; v. 280; p. 908.
Bossert, Charles T. (See Bossert, F. J. and C. T.)
Bossert, Charles V., Brooklyn, N. Y. Wall and roof construction. No. 1,329,883; Feb. 3; v. 271; p. 101.
Bossert, Fred J. and C. T., Selma, Calif. Vine-cutter. No. 1,338,281; Apr. 27; v. 278; p. 692.
Bosshard, Theodore, Brooklyn, N. Y. Confection-making apparatus. No. 1,338,354; Apr. 27; v. 278; p. 707.
Bossu, Pierre, Paris, France. Electric machine. No. 1,341,402; May 25; v. 274; p. 742.
Bossu, Pierre Neuilly-sur-Seine, France. Gear-coupling. No. 1,343,031; June 8; v. 275; p. 331.
Bostock, Francis J. (See Brown, P., and Bostock.)
Boston Clock Company. (See Menns, Walter K., assignor.)
Boston Floating Hospital, The. (See Bosworth, Alfred W., assignor.)
Boston, Frank M. (See Walker, Asa C., assignor.)
Boston Machine Works Company. (See Osgood, W. P., and Smith, assignors.)
Boston Pressed Metal Co. (See Needham, William H., assignor.)
Boston Rubber Shoe Company. (See Lawrence, George L., Jr., assignor.)
Boston Sanitary Belt Company. (See Barlow, John W., assignor.)
Boston Scale and Machine Co. (See Davis, John V., assignor.)
Boston Scale and Machine Co. (See Emery, F. A., and Adams, assignors.)
Boston Scale and Machine Co. (See Foote, Theodore M., assignor.)
Boston Scale & Machine Company. (See Adams, A. A., and Emery assignors.)
Boston Wire Stitcher Company. (See Maynard, Arthur H., assignor.)
Boston Woven Hose & Rubber Co. (See McGeouch, W. P., and Beckwith, assignors.)
Bostwick, Rolla B., Duquesne, Pa. Vehicle-wheel. No. 1,363,951; Dec. 28; v. 281; p. 722.
Bostwick, William H., Norfolk, Va. Scaffold. No. 1,330,162; Feb. 10; v. 271; p. 184.
Boswell, Fletcher O., Philadelphia, Pa. Vehicle suspension and shock-absorber. No. 1,340,434; May 18; v. 274; p. 468.
Boswell, Fletcher O., Philadelphia, Pa. Automobile-steering-gear lock. No. 1,345,828; July 6; v. 276; p. 98.
Boswell, Fletcher O., Philadelphia, Pa. Compound rail and electrical conductor. No. 1,346,168; July 13; v. 276; p. 227.
Boswell, Fletcher O., assignor to F. O. B. Manufacturing Company, Philadelphia, Pa. Automobile-lock. No. 1,353,143; Sept. 21; v. 278; p. 374.
Boswell, Fletcher O., assignor to F. O. B. Manufacturing Company, Philadelphia, Pa. Non-skid chain for automobiles. No. 1,356,035; Oct. 19; v. 279; p. 404.
Boswell, Fletcher O., assignor to F. O. B. Manufacturing Company, Philadelphia, Pa. Lock-up tire-holder for automobiles. No. 1,359,483; Nov. 23; v. 280; p. 596.
Boswell, George G. F., assignor of one-eighth to V. H. Lockwood and one-eighth to R. G. Lockwood, Indianapolis, Ind. Chain saw. No. 1,349,557; Aug. 17; v. 277; p. 404.
Boswell, George G. F., Indianapolis, Ind. Shock-absorber. No. 1,352,651; Sept. 14; v. 278; p. 217.
Boswell, George G. F., Indianapolis, Ind. Shock-absorber. No. 1,353,513; Sept. 21; v. 278; p. 446.
Boswell, George G. F., Indianapolis, Ind. Shock-absorber. No. 1,353,514; Sept. 21; v. 278; p. 447.
Boswell, George G. F., Indianapolis, Ind. Shock-absorber. No. 1,360,083; Nov. 23; v. 280; p. 715.
Bosworth, Alfred W., Milton, assignor to The Boston Floating Hospital, Boston, Mass. Reconstructed milk and making same. No. 1,341,040; May 25; v. 274; p. 654.
Bosworth, Edward E., Berkeley, Calif. Silent chain. No. 1,363,034; Dec. 21; v. 281; p. 505.
Bosworth, George P., Central Falls, assignor to Hemphill Company, Pawtucket, R. I. Glove and making same. No. 1,339,592; May 11; v. 274; p. 251.
Bosworth, William G., assignor to Cork Roller Corporation, New York, N. Y. Typewriter-roller. No. 1,334,219; Mar. 16; v. 272; p. 498.
Bosworth, William G., New York, N. Y. Flushing apparatus. No. 1,361,814; Dec. 14; v. 281; p. 214.
Both, Tonjes A. (See Trumbull, A. H., and Both.)
Both, Tonjes A., Stratford, Conn., assignor to The Connecticut Electric Manufacturing Company. Mechanical movement. No. 1,327,192; Jan. 6; v. 270; p. 59.

Digitized by Google

Both, Tonjes A. C., A. H. Trumbull, Stratford, Conn., and R. A. Schoenberg, New York, N. Y., assignors to The Connecticut Electric Mfg. Co., Bridgeport, Conn. Fuse-plug. No. 1,335,362; Mar. 30; v. 272; p. 820.

Botscheider, George F., San Francisco, Calif. Automatic locking device for pneumatic-tube systems. No. 1,339,594; May 11; v. 274; p. 252.

Bott, George R., New York, N. Y., assignor to The Norma Company of America. Joint for artificial limbs. No. 1,336,812; Apr. 13; v. 273; p. 270.

Bott, George R., New York, N. Y., assignor to The Norma Company of America. Bearing and mounting therefor. No. 1,337,881; Apr. 20; v. 273; p. 547.

Bott, George R., New York, N. Y., assignor to The Norma Company of America. Bearing and mounting therefor. No. 1,337,882; Apr. 20; v. 273; p. 548.

Bott, Joseph, assignor to Bastian Bros. Company, Rochester, N. Y. Badge or button. No. 1,331,611; Feb. 24; v. 271; p. 544.

Bottle, Edward K., Elmira, assignor to W. A. Cooke, Brooklyn, N. Y. Puncturing device for files, binders, or the like. No. 1,336,998; Apr. 13; v. 273; p. 305.

Bottomley, Samuel, Providence, R. I. Serviette or catamenial sack. No. 1,332,597; Mar. 2; v. 272; p. 81.

Bottomley, William B., London, England. Treatment of peat for making useful products. No. 1,355,782; Oct. 12; v. 279; p. 305.

Bottone, Victor R., assignor to Philadelphia Storage Battery Company, Philadelphia, Pa. Punching-machine. No. 1,344,435; June 22; v. 275; p. 735.

Bottorff, Andrew J., Sawtelle, Calif. Boat. No. 1,330,109; Feb. 10; v. 271; p. 175.

Botts, George, Bellaire, Ohio. Caster. No. 1,333,895; Mar. 16; v. 272; p. 437.

Botts, Raymond A., Hanford, Calif. Harvester for Egyptian corn, Milo maize, and the like. No. 1,340,816; May 18; v. 274; p. 540.

Botts, Robert H., Parker, Ariz. Worm-screw. No. 1,347,802; July 27; v. 276; p. 666.

Boughen, Malachi F., assignor to Niles-Bement-Pond Company, New York, N. Y. Car-wheel lathe. No. 1,339,017; May 4; v. 274; p. 68.

Boughton, Charles H. E., Chicago, Ill. Mount for photographs and the like. No. 1,340,369; May 18; v. 274; p. 456.

Boughton, George B., St. Louis, Mo. Disappearing garage-door. No. 1,341,041; May 25; v. 274; p. 654.

Boughton, George B., assignor to Efficiency Building Appliance Company, St. Louis, Mo. Door and window. No. 1,358,356; Nov. 9; v. 280; p. 285.

Boughton, Walter W., Denver, Colo., assignor, by mesne assignments, to Community Mausolem Association, Mausoleum. No. 1,333,602; Mar. 16; v. 272; p. 382.

Bouillit, Firmin A. (See Viard, E. L., and Bouillit.)

Bouillon, Constant, Torrington, Conn., assignor to Hendey Machine Company. Tool-cabinet. No. 1,337,387; Apr. 20; v. 273; p. 453.

Boulade, Antonin, assignor to Societe du Carburateur Zenith, Lyon, France. Pump. No. 1,340,596; May 18; v. 274; p. 499.

Boulade, Antonin, assignor to Societe du Carburateur Zenith, Lyon, France. Pump. No. 1,340,597; May 18; v. 274; p. 499.

Boulais, Wilfrid, Ipswich, Mass. Tractor. No. 1,340,112; May 11; v. 274; p. 350.

Boulanger, Frank D., West Hoboken, N. J. Flash-light. No. 1,342,322; June 1; v. 275; p. 138.

Boulton, George, and G. J. Gorsuch, Rochester, N. Y., assignors to United Shoe Machinery Corporation, Paterson, N. J. Seam-ironing machine. No. 1,342,417; June 8; v. 275; p. 210.

Boulton & Paul Limited. (See North, John D., assignor.)

Boulton, William W. (See McClure, R. A., and Boulton.)

Bouma, B. T. (See Van Genderen, Cornelius, assignor.)

Bouma, Benjamin T., assignor to N. M. Bouma, Lynnville, Iowa. Hog-house-floor construction. No. 1,354,721; Oct. 5; v. 279; p. 55.

Bouma, Louis C., Lynnville, Iowa. Sanitary nest-egg. No. 1,339,543; May 11; v. 274; p. 242.

Bouma, N. M. (See Bouma, Benjamin T., assignor.)

Bour, Charles W., South Bend, Ind. Trap-nest. No. 1,336,191; Apr. 6; v. 273; p. 92.

Bour, Lucien P., Paris, France. Safety-fastening for hair-slides. No. 1,354,236; Sept. 28; v. 278; p. 636.

Bourbonniere, Henri J., Montreal, assignor to A. A. Mondoux, Pierreville, Quebec, Canada. Lighting system for automobiles. No. 1,362,921; Dec. 21; v. 281; p. 482.

Bourcoud, Agustin E., Chicago, Ill. Method of and apparatus for reducing metallic oxids. No. 1,344,977; June 29; v. 275; p. 904.

Bourdeau, Leon N., Rock Island, Ill., assignor of one-half to J. G. Sorenson, Davenport, Iowa. Grease-cup. No. 1,337,432; Apr. 20; v. 273; p. 462.

Bourdelles, Emile A. L., Paris, assignor to Societe Anonyme Des Etablissements Delaunay Belleville, St.-Denis, France. Ordnance. No. 1,347,803; July 27; v. 276; p. 666.

Boureau, Desiré V., Detroit, Mich. Internal-combustion engine. No. 1,358,513; Nov. 9; v. 280; p. 316.

Boureau, Desiré V., Detroit, Mich. Piston-valve. No. 1,358,514; Nov. 9; v. 280; p. 317.

Boureau, Harry U., Moorestown, N. J. Partition-rail for roadways. No. 1,359,787; Nov. 23; v. 280; p. 656.

Bourg, Joseph N., Highland Park, assignor to Park Chemical Company, Detroit, Mich. Compound for carburizing metal and forming same. No. 1,358,281; Nov. 9; v. 280; p. 269.

Bourge, Numa J., Erath, La. Railway-signal. No. 1,348,080; July 27; v. 276; p. 722.

Bourgeois, Adelord, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for mounting shoes on lasts. No. 1,360,084; Nov. 23; v. 280; p. 715.

Bourget, Jean B., Paris, France. Sliding gage of precision. No. 1,334,984; Mar. 30; v. 272; p. 750.

Bourgon, Joseph H., assignor to The Studebaker Corporation, Detroit, Mich. Means for ventilating automobiles. No. 1,361,673; Dec. 7; v. 281; p. 130.

Bourguignon, Jules, Billancourt, France, assignor to The B. F. Goodrich Company, New York, N. Y. Stay-cable junction. No. 1,359,571; Nov. 23; v. 280; p. 614.

Bourk, Louis P. H., Nicolet, Quebec, Canada. Casket. No. 1,335,722; Apr. 6; v. 273; p. 4.

Bourke, William, assignor of one-half to L. A. Elkington, New York, N. Y. Violin-string-tensioning device. No. 1,361,360; Dec. 7; v. 281; p. 76.

Bourne, George H., assignor of one-half to C. Millar, Toronto, Ontario, Canada. Registering device. No. 1,359,484; Nov. 23; v. 280; p. 596.

Bourne, James D., Stuttgart, Ark. Baseball-game apparatus. No. 1,341,628; June 1; v. 275; p. 3.

Bourne, Phillips P., Winchester, Mass., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Condenser system and vacuum-pump. No. 1,335,478; Mar. 30; v. 272; p. 841.

Bourne, Theodore F., Upper Montclair, N. J. Priming means for internal-combustion engines. No. 1,343,547; June 15; v. 275; p. 496.

Bourque, David, assignor to G. W. J. Murphy Co., Amesbury, Mass. Assembling-machine. No. 1,332,538; Mar. 2; v. 272; p. 70.

Bourque, David, assignor to G. W. J. Murphy Company, Amesbury, Mass. Machine for producing spring-encircled members. No. 1,332,539; Mar. 2; v. 272; p. 70.

Bourque, David, assignor to G. W. J. Murphy Company, Amesbury, Mass. Turnbutton-fastener. No. 1,335,363; Mar. 30; v. 272; p. 820.

Bourque, David, Amesbury, assignor to G. W. J. Murphy Company, Merrimac, Mass. Button-fastener. No. 1,355,029; Oct. 5; v. 279; p. 115.

Bousfield, John H. A., assignor to E. and T. Fairbanks and Company, St. Johnsbury, Vt. Scale. No. 1,346,481; July 13; v. 276; p. 289.

Bouteille, Joseph, Paris, France. Electric interrupter. No. 1,333,202; Mar. 9; v. 272; p. 246.

Bouton, Edgar M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Furnace-regulator system. No. 1,349,361; Aug. 10; v. 277; p. 292.

Bouton, Edgar M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,363,635; Dec. 28; v. 281; p. 661.

Bouvier, George A., Detroit, Mich. Adjustable frame for shipping vehicles. No. 1,350,699; Aug. 24; v. 277; p. 672.

Bouvier, Henri J., Grenoble, France. Recoil-deadener for water-mains. No. 1,357,837; Nov. 2; v. 280; p. 121.

Bouvier, Henri J., Grenoble, France. Delivery-compensating and recoil-deadening apparatus for water-mains. No. 1,357,838; Nov. 2; v. 280; p. 121.

Bouvier, Jean B. (See Frappart, H., and Bouvier.)

Boutelle, William H., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,353,311; Sept. 21; v. 278; p. 407.

Bovard, William H. (See Wolfe, P. L., and Bovard.)

Bovard, William P., assignor to The Ohio Brass Company, Mansfield, Ohio. Rail-bond. No. 1,336,502; Apr. 13; v. 273; p. 210.

Bovard, William P., assignor to The Ohio Brass Company, Mansfield, Ohio. Drilling device. No. 1,341,292; May 25; v. 274; p. 702.

Bovard, William P., assignor to The Ohio Brass Company, Mansfield, Ohio. Electric welding device. No. 1,341,293; May 25; v. 274; p. 703.

Bovee, Chancy W., Stevensville, N. Y. Collapsible barrel. No. 1,341,493; May 25; v. 274; p. 742.

Bovey, Thomas, Chicago, Ill. Vehicle-heater. No. 1,341,879; June 1; v. 275; p. 52.

Boving, Henrik, assignor to Western Electric Company, Incorporated, New York, N. Y. Leading-in wire. No. 1,357,216; Nov. 2; v. 280; p. 8.

Boving, Jens O. (See Bibby, J., and Boving.)

Bowden, Charles L., Chicago, Ill. Two-cycle engine. No. 1,341,838; June 1; v. 275; p. 44.

Bowden, D. R., and C. F. Schnuck, assignors to Farrel Foundry and Machine Company, Ansonia, Conn. Rubber-mixer. No. 1,355,885; Oct. 19; v. 279; p. 375

Bowden, George, Malden, Mass. End-gate fastener. No. 1,327,079; Jan. 6; v. 270; p. 38.

Bowden, John M., Aspinwall borough, Pa. Baby-walker. No. 1,332,461; Mar. 2; v. 272; p. 55.

Digitized by Google

Alphabetical list of patentees—Continued.

Bowden, Junius A., Los Angeles, Calif. Dust-cap and attaching means therefor. No. 1,328,488; Jan. 20; v. 270; p. 400.

Bowden, Junius A., Los Angeles, Calif. Dust-cap and attaching means therefor. No. 1,328,801; Jan. 20; v. 270; p. 458.

Bowden, Junius A., Los Angeles, Calif., assignor to A. Schrader's Son, Incorporated, New York, N. Y. Pressure-gage. No. 1,354,017; Sept. 28; v. 278; p. 591.

Bowdish, Harry A., Eagle Pass, Tex. Speed-recorder. No. 1,347,676; July 27; v. 276; p. 641.

Bowe, David W., Detroit, Mich. Mold for railway-stringers. No. 1,329,362; Feb. 3; v. 271; p. 5.

Bowe, David W., Detroit, Mich. Combination rail-shoe. No. 1,329,363; Feb. 3; v. 271; p. 5.

Bowen, Charles, assignor of one-third to F. Gaskins and one-third to A. G. Niebergall, Fort Wayne, Ind. Bumper for automobiles. No. 1,329,334; Jan. 27; v. 270; p. 586.

Bowen, Charles, assignor of one-fifth to F. Gaskins, one-fifth to A. G. Niebergall, one-fifth to J. E. O'Connor, and one-fifth to C. A. Spanley, Fort Wayne, Ind. Bumper for automobiles. No. 1,363,201; Dec. 21; v. 281; p. 537.

Bowen, Charles, assignor of one-fifth to F. Gaskins, one-fifth to A. G. Niebergall, one-fifth to J. E. O'Connor, and one-fifth to C. A. Spanley, Fort Wayne, Ind. Bumper for automobiles. No. 1,363,202; Dec. 21; v. 281; p. 537.

Bowen, David C., and J. F. Walker, Johannesburg, Transvaal, South Africa. Means for steaming amalgamating-plates used in the recovery of gold from its ores. No. 1,334,333; Mar. 23; v. 272; p. 566.

Bowen, David R., and C. F. Schnuck, assignors to Farrel Foundry & Machine Company, Ansonia, Conn. Machine for treating rubber and similar materials. No. 1,354,452; Sept. 28; v. 278; p. 680.

Bowen, David R., and C. F. Schmuck, assignors to Farrell Foundry and Machine Company, Ansonia, Conn. Machine for treating rubber and similar material. No. 1,355,305; Oct. 12; v. 279; p. 223.

Bowen, David R., and C. F. Schnuck, assignors to Farrel Foundry and Machine Company, Ansonia, Conn. Rubber-mixer. No. 1,356,691. Oct. 26; v. 279; p. 580.

Bowen, David R., and C. F. Schnuck, assignors to Farrel Foundry and Machine Company, Ansonia, Conn. Rubber-mixer. No. 1,357,217; Nov. 2; v. 280; p. 4.

Bowen, David R., Ansonia, and C. F. Schnuck, New Haven, assignors to Farrel Foundry and Machine Company, Ansonia, Conn. Machine for treating rubber and similar material. No. 1,357,948; Nov. 9; v. 280; p. 204.

Bowen, David R., Ansonia, and C. F. Schnuck, New Haven, assignors to Farrel Foundry and Machine Company, Ansonia, Conn. Machine for treating rubber and similar material. No. 1,358,702; Nov. 16; v. 280; p. 399.

Bowen, Ernest W., Surrey, assignor of thirty-five per cent. to T. L. Davies, London, England. Propeller for operation in air. No. 1,331,612; Feb. 24; v. 271; p. 545.

Bowen, Ezra, Berkeley, Calif. Pipe-wrench. No. 1,354,722; Oct. 5; v. 279; p. 55.

Bowen, James M., Cape May Court House, N. J., assignor to S. L. Allen & Co., Inc. Tractor. No. 1,343,303; June 15; v. 275; p. 447.

Bowen, Philip A., assignor to L. A. Little, Lynn, Mass. Sewing-machine. No. 1,330,781; Feb. 17; v. 271; p. 368.

Bowen, William S., New York, N. Y. Propeller-testing device. No. 1,351,738; Sept. 7; v. 278; p. 5.

Bower, Frank A., Brooklyn, assignor to C. D. Schmidt, Jamaica, N. Y. Antiskid-chain. No. 1,342,086; June 1; v. 275; p. 93.

Bower, George L., Greenwood, Mass. Cam-cutting attachment. No. 1,351,365; Aug. 31; v. 277; p. 865.

Bower, Harry A., Boston, Mass. Practice-drum. No. 1,346,588; July 13; v. 276; p. 310.

Bower, John F., Williamsport, Pa. Household pounding-block. No. 1,334,884; Mar. 23; v. 272; p. 671.

Bower, Simon M., Woollahra, near Sydney, New South Wales, Australia. Cow-milking machine. No. 1,332,318; Mar. 2; v. 272; p. 27.

Bowerman, Joseph A., assignor to The Fiske Rubber Company, Chicopee Falls, Mass. Method and apparatus for manufacture of tires. No. 1,327,802; Jan. 13; v. 270; p. 234.

Bowers, Arthur F., Milwaukee, Wis. Door-operating mechanism. No. 1,341,775; June 1; v. 275; p. 32.

Bowers, Charles L. (See Seaver, H. E., and Bowers.)

Bowers, Frank. (See Beebee, L., and Bowers.)

Bowers, Frank E., Indianapolis, Ind. Heating-stove. No. 1,350,061; Aug. 17; v. 277; p. 501.

Bowers, George W., Somerville, Mass. Plural-record phonograph. (Reissue.) No. 14,817; Mar. 16; v. 272; p. 508.

Bowers, Hiester A., Reading, Pa. Calculating-machine. No. 1,347,245; July 20; v. 276; p. 499.

Bowers, Nicholas M., West McHenry, Ill. Hay-loader. No. 1,336,065; Apr. 6; v. 273; p. 68.

Bowers, Oscar L., assignor of one-half to A. J. Wilbourn, Olive Branch, Ill. Baling-press. No. 1,361,815; Dec. 14; v. 281; p. 214.

Bowers, Robert R., assignor to The Dain Manufacturing Company of Iowa, Ottumwa, Iowa. Hay gathering and loading machine. No. 1,361,302; Dec. 7; v. 281; p. 64.

Bowers, Thomas A., Brookline, Mass. Wire wheel. No. 1,347,837; July 27; v. 276; p. 673.

Bowers, Thomas A., Boston, Mass. Wire wheel. No. 1,358,819; Nov. 16; v. 280; p. 423.

Bowers, Walter C., Dayton, Ohio. Making ring-mountings. No. 1,352,870; Sept. 14; v. 278; p. 261.

Bowers, Walter L. (See Kent, Charles E., assignor.)

Bowers, Wilson S., Blandon, Pa. Pliers. No. 1,333,243; Mar. 9; v. 272; p. 254.

Bowersox, Joseph W., Louisville, Ky., assignor of one-half to A. W. Moore, Pittsburgh, Pa. Mattress-tufting machine. No. 1,344,605; June 22; v. 275; p. 769.

Bowes, John J., Jr., Pensacola, Fla. Tube-compressor. No. 1,347,931; July 27; v. 276; p. 692.

Bowes, John J., Jr., Pensacola, Fla. Closure. No. 1,364,029; Dec. 28; v. 281; p. 737.

Bowes, Walter H., Greenwich, Conn. Apparatus for sorting, postmarking, and canceling mail. No. 1,349,940; Aug. 17; v. 277; p. 477.

Bowker, William H., Manchester, England. Wooden lappet. No. 1,351,829; Sept. 7; v. 278; p. 23.

Bowlen, William C., Holyoke, Mass. Plane. No. 1,342,154; June 1; v. 275; p. 106.

Bowles, John A., Richmond, Va. Locomotive-driving-box lubricator. No. 1,327,186; Jan. 6; v. 270; p. 48.

Bowlus, Charles F., Dallas, Tex. Heater. No. 1,353,312; Sept. 21; v. 278; p. 407.

Bowman, Abe, Long Beach, Calif. Mowing-machine. No. 1,329,698; Feb. 3; v. 271; p. 66.

Bowman, Charles L., Canton, Ohio, and J. J. Body, Dante, Va., assignors to The American Mine Door Company, Canton, Ohio. Automatic mine-door. No. 1,353,715; Sept. 21; v. 278; p. 488.

Bowman, Clyde. (See St. John, G. E., and Bowman.)

Bowman, Edward, Dubuque, Iowa. Manifold-heater. No. 1,358,414; Nov. 9; v. 280; p. 297.

Bowman, Edwin L., Gardner, assignor to C. A. Schmitz, West Medford, Mass. Puzzle. No. 1,342,706; June 8; v. 275; p. 266.

Bowman, Emil F., Marshalltown, Iowa. Drinking-fountain. No. 1,337,637; Apr. 20; v. 273; p. 500.

Bowman, Ford C., Wyoming, Ohio, assignor to the Philip Carey Manufacturing Company, Lockland, Ohio. Preformed expansion-joint strip. No. 1,339,094; May 4; v. 274; p. 83.

Bowman, George. (See Graham and Bowman.)

Bowman, James W., Morley, Mo. Harrow. No. 1,328,363; Jan. 20; v. 270; p. 376.

Bowman, Levi M., assignor of one-half to W. A. Smith, Tulsa, Okla. Casket. No. 1,344,674; June 29; v. 275; p. 847.

Bowman, Levi M., assignor of one-half to W. A. Smith, Tulsa, Okla. Means for and process of filtering petroleum products. No. 1,347,932; July 27; v. 276; p. 692.

Bowman, Newton K. (See Dillon, James F., assignor.)

Bowman, Newton K., North Lawrence, Ohio, assignor to The American Mine Door Company. Feeder-wire splice. No. 1,351,366; Aug. 31; v. 277; p. 865.

Bowman, Newton K., North Lawrence, Ohio. Cable-guide. No. 1,351,367; Aug. 31; v. 277; p. 865.

Bowman, Samuel, Redondo Beach, Calif. Radiator. No. 1,329,697; Feb. 3; v. 271; p. 65.

Bowman, Wade W., New York, N. Y. Demountable rim. No. 1,345,313; June 29; v. 275; p. 970.

Bowmer, John B., Plummer, Idaho. Brake-block. No. 1,336,882; Apr. 13; v. 273; p. 283.

Bowness, George A. (See Jardine, Dickie, and Bowness.)

Bowser, Arthur W., Celina, Ohio. Washing-machine. No. 1,333,153; Mar. 9; v. 272; p. 237.

Bowness, George A., Summerside, Prince Edward Island, Canada. Harness. No. 1,345,577; July 6; v. 276; p. 49.

Bowser, Margaret G. (See Lawton, Frederick H., assignor.)

Bowser, S. F., & Co. (See Bechtold, Reuben E., assignor.)

Boxell, Augustus G., Los Angeles, Calif. Recording plate-holder. No. 1,330,235; Feb. 10; v. 271; p. 198.

Boyce, Charles A., Worcester, Mass. Nursery-bottle holder. No. 1,339,018; May 4; v. 274; p. 68.

Boyce, James, Chicago, Ill., assignor to The American Cotton Oil Company, Guttenberg, N. J. Manufacture of catalysts. No. 1,339,686; May 11; v. 274; p. 270.

Boyce, John A., Chicago, Ill. Printing and folding machine. No. 1,353,799; Sept. 21; v. 278; p. 504.

Boyce, Lillon B., Syracuse, N. Y. Sliding hinge. No. 1,362,837; Dec. 21; v. 281; p. 466.

Boyce, Malcolm B., Haverhill, Mass. Autographic attachment for cameras. No. 1,342,155; June 1; v. 275; p. 106.

Boyce, Malcolm B., Haverhill, Mass. Reflex focal-plane camera. No. 1,348,778; Aug. 3; v. 277; p. 125.

Boyce, William S., Columbus, Ohio, assignor to The Rail Joint Company, New York, N. Y. Insulated rail-joint. No. 1,361,816; Dec. 14; v. 281; p. 214.

Boyce, Stanley. (See Brock, R. E., and Boyce.)

Boyd, Alexander J. (See Smith, John F., assignor.)

Boyd, David C. (See Arndt, Franklin E., assignor.)

Digitized by Google

Alphabetical list of patentees—Continued.

Boyd, Fred C., New Haven, and A. J. Barnes, West Haven, assignors to The Faraday Company, New Haven, Conn. Electric stove. No. 1,363,227; Dec. 28; v. 281; p. 582.

Boyd, Frederic R. C., assignor of one-third to M. C. Brush, Boston, and one-third to J. H. Neal, Cambridge, Mass. Apparatus for controlling the operation of work-producers operating in parallel. No. 1,355,447; Oct. 12; v. 279; p. 250.

Boyd, Frederic R. C., Boston, Mass., and C. H. Hapgood, Nutley, N. J., assignors to The De Laval Separator Company, New York, N. Y. Lubricating-oil purifying and reclaiming system. No. 1,363,833; Dec. 28; v. 281; p. 699.

Boyd, George W., Rector, Ark. Pump-jack. No. 1,354,237; Sept. 28; v. 278; p. 636.

Boyd, Harold A. (See Boyd, T. A., and H. A.)

Boyd, Hugh T. (See Biddison, P. M., and Boyd.)

Boyd, James C., Pitcairn, Pa. Sign. No. 1,329,454; Feb. 3; v. 271; p. 21.

Boyd, James H., assignor to Whitin Machine Works, Whitinsville, Mass. Yarn-tension. No. 1,343,388; June 15; v. 275; p. 464.

Boyd, James K., Wilkinsburg, Pa. Compound rail. No. 1,346,394; July 13; v. 278; p. 272.

Boyd, John L. (See Newman, Joe, assignor.)

Boyd, Roger J., assignor to the Firm of Carson, Pirie, Scott & Co., Chicago, Ill. Packing-box. No. 1,329,577; Feb. 3; v. 271; p. 44.

Boyd, Roger J., assignor, by mesne assignments, to Carson Pirie Scott & Co., Chicago, Ill. Shipping-case. No. 1,351,739; Sept. 7; v. 278; p. 5.

Boyd, Roger J., assignor, by mesne assignments, to Carson Pirie Scott & Co., Chicago, Ill. Shipping-case. No. 1,351,740; Sept. 7; v. 278; p. 5.

Boyd, Thomas A. and H. A., Glasgow, Scotland. Yarn-tensioning device. No. 1,333,059; Mar. 9; v. 272; p. 220.

Boyd, Uintah R., San Francisco, Calif. Lady's undergarment. No. 1,337,883; Apr. 20; v. 273; p. 548.

Boyd, William D., Jackson, Tenn. Jack. No. 1,332,598; Mar. 2; v. 272; p. 81.

Boyd, William J. (See Fleckl, H., and Boyd.)

Boyd, William W., assignor to Buffalo Scale Company, Buffalo, N. Y. Scale. No. 1,340,318; May 18; v. 274; p. 445.

Boyd, Wyatt, Dayton, Ohio. Gas-engine. No. 1,345,345; July 6; v. 276; p. 4.

Boyden, George A., Jr., and J. C., Baltimore, Md. Railway-car truck. No. 1,341,776; June 1; v. 275; p. 33.

Boyden, George A., Jr., and J. C., Baltimore, Md. Railway-car truck. No. 1,341,777; June 1; v. 275; p. 33.

Boyden, George A., Jr., and J. C., Baltimore, Md. Railway-car truck. No. 1,341,778; June 1; v. 275; p. 33.

Boyden, George A., Jr., and J. C., Baltimore, Md. Railway-car truck. No. 1,341,779; June 1; v. 275; p. 33.

Boyden, George A., Jr., and J. C., Baltimore, Md. Railway-car truck. No. 1,341,780; June 1; v. 275; p. 33.

Boyden, George A., Jr., and J. C., Baltimore, Md. Railway-car truck. No. 1,341,781; June 1; v. 275; p. 34.

Boyden, John C. (See Boyden, George A., Jr., and J. C.)

Boye, James H., Manufacturing Co. (See Boye, James H., assignor.)

Boye, James H., assignor to James H. Boye Manufacturing Company, Chicago, Ill. Curtain-fixture. No. 1,333,702; Mar. 16; v. 272; p. 402.

Boye, James H., assignor to James H. Boye Manufacturing Company, Chicago, Ill. Curtain-fixture. No. 1,349,041; Aug. 10; v. 277; p. 229.

Boye, James H., assignor to James H. Boye Manufacturing Company, Chicago, Ill. Curtain-rod. No. 1,349,042; Aug. 10; v. 277; p. 229.

Boye, James H., assignor to James H. Boye Manufacturing Co., Chicago, Ill. Commodity-cabinet. No. 1,351,464; Aug. 31; v. 277; p. 883.

Boye, James H., assignor to James H. Boye Manufacturing Company, Chicago, Ill. Dispensing device. No. 1,352,425; Sept. 14; v. 278; p. 172.

Boye, James H., assignor to James H. Boye Manufacturing Company, Chicago, Ill. Curtain-hanger. No. 1,352,652; Sept. 14; v. 278; p. 217.

Boye, James H., Manufacturing Company. (See Boye, James H., assignor.)

Boye, Lawrence F., Chester, Pa. Clutch mechanism. No. 1,348,926; Aug. 10; v. 277; p. 206.

Boye Needle Company, The. (See Carlson, Gustav A., assignor.)

Boye Needle Company, The. (See Flannery, John L., Jr., assignor.)

Boyer, Charles R., McKeesport, Pa. Vehicle-wheel. No. 1,362,922; Dec. 21; v. 281; p. 482.

Boyer, Edith E. L. and F. G. L., Dayton, Ohio. Value printing and indicating device for scales. No. 1,338,282; Apr. 27; v. 273; p. 693.

Boyer, Edmond A., Princeton Junction, N. J. Door-holding device for automobiles. No. 1,348,260; Aug. 3; v. 277; p. 26.

Boyer, Edward J., Aurora, Kans. Book-holder. No. 1,336,275; Apr. 6; v. 273; p. 108.

Boyer, Frederick G. L. (See Boyer, Edith E. L. and F. G. L.)

Boyer, Harry L., assignor to Joseph Stokes Rubber Company, Trenton, N. J. Apparatus for forming composite bodies of rubber and fibrous material. No. 1,330,976; Feb. 17; v. 271; p. 406.

Boyer, Harry L., assignor to Joseph Stokes Rubber Company, Trenton, N. J. Making rubber storage-battery jars. No. 1,352,170; Sept. 7; v. 278; p. 88.

Boyer, Harry L., assignor to Jos. Stokes Rubber Company, Trenton, N. J. Making storage-battery jars. No. 1,352,418; Sept. 7; v. 278; p. 134.

Boyer, Harry L., assignor to Joseph Stokes Rubber Company, Trenton, N. J. Storage-battery separator and producing same. No. 1,357,378; Nov. 2; v. 280; p. 34.

Boyer, Harry L., assignor to Joseph Stokes Rubber Company, Trenton, N. J. Making storage-battery separators. No. 1,357,379; Nov. 2; v. 280; p. 34.

Boyer, Jesse I., Reading, Pa. Top cap for sugar-mill housings. No. 1,344,287; June 22; v. 275; p. 706.

Boyer, Lewis E., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Method of and apparatus for forming rifled bores in metal. No. 1,328,077; Jan. 13; v. 270; p. 285.

Boylan, James O., assignor to H. W. Johns-Manville Company, Philadelphia, Pa. Built-up roofing. No. 1,363,559; Dec. 28; v. 281; p. 647.

Boylan, Samuel H., Joplin, Mo. Classifier. No. 1,326,908; Jan. 6; v. 270; p. 4.

Boylan, Samuel H., Joplin, Mo. Operating mechanism for ore-concentrating tables. No. 1,361,674; Dec. 7; v. 281; p. 140.

Boyle, Albert J., Baltimore, Md. Joint for concrete pipe. No. 1,345,829; July 6; v. 276; p. 98.

Boyle, Bernard J. (See Royer, Edwin C., assignor.)

Boyle, Bernard J. (See Royer, E. C., and Boyle.)

Boyle, John B., Crozet, Va. Attachment for rocking-chairs. No. 1,345,745; July 6; v. 276; p. 82.

Boyle, Louis M., Los Angeles, Calif. Supply outfit for vehicles, &c. No. 1,327,223; Jan. 6; v. 270; p. 65.

Boyle, William P., Springfield, Mass. Burner for gas-furnaces. No. 1,328,225; Jan. 13; v. 270; p. 314.

Boynton, Stanley E., Rochester, N. Y., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me. Last-lathe. No. 1,362,185; Dec. 14; v. 281; p. 287.

Boynton, Vern K. (See Webster, P. W., and Boynton.)

Boysen, Iwer, New York, N. Y. Retouching-screen. No. 1,343,613; June 15; v. 275; p. 509.

Boyuls, Cecil H., Louisville, Ky. Shirt bosom and body machine. No. 1,357,218; Nov. 2; v. 280; p. 4.

Bozard, Harrison B., Hamilton, Ontario, Canada, assignor to International Harvester Company of Canada, Limited. Steel bearing for disks. No. 1,328,787; Jan. 20; v. 270; p. 455.

Boze, George A., New England, N. D. Septic or consuming tank. No. 1,332,882; Mar. 9; v. 272; p. 186.

Boze, William H., Norfolk, Va. Collapsible stand. No. 1,340,370; May 18; v. 274; p. 456.

Bozo, Stefan, New York, N. Y. Sight-feed lubricator. No. 1,359,151; Nov. 16; v. 280; p. 485.

Bozzo, Louis, Paterson, N. J. Harness-motion for looms. No. 1,333,060; Mar. 9; v. 272; p. 220.

Brabson, Frank. (See Wilcox, Henry, assignor.)

Brace, Porter H., assignor to Westinghouse Electric & Manufacturing Company, Pittsburgh, Pa. Forming alloys. No. 1,355,532; Oct. 12; v. 279; p. 267.

Brace, Porter H., assignor to Westinghouse Electric & Manufacturing Company, Pittsburgh, Pa. Arc-welding electrode. No. 1,363,636; Dec. 28; v. 281; p. 661.

Brace, William H., Philadelphia, Pa. Piston. No. 1,355,030; Oct. 5; v. 279; p. 115.

Brach, Emil J., Chicago, Ill. Confectionery-machine. No. 1,348,081; July 27; v. 276; p. 722.

Brach, Leon S., New York, N. Y. Recording apparatus for railway-signals. No. 1,350,355; Aug. 24; v. 277; p. 604.

Brachtl, Henry, assignor to Associated Engineers Company, Chicago, Ill. Cable-bracket. No. 1,335,558; Mar. 30; v. 272; p. 855.

Brackbill, Charles, Philadelphia, Pa. Steering-wheel lock. No. 1,356,511; Oct. 26; v. 279; p. 545.

Brackenbury, Edward W., assignor to The T. L. Smith Company, Milwaukee, Wis. Concrete-mixer. No. 1,335,934; Apr. 6; v. 273; p. 43.

Brackenbury, E. W., assignor to The T. L. Smith Company, Milwaukee, Wis. Concrete-mixer. No. 1,350,293; Aug. 24; v. 277; p. 591.

Brackett, Edward B., Lufkin, Tex. Engine-fan-belt guard. No. 1,340,113; May 11; v. 274; p. 350.

Brackett, Quincy A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Excess-voltage protective device. No. 1,345,066; June 29; v. 275; p. 922.

Brackett, Tracey F., assignor to R. N. Motherwell, Chicago, Ill. Truck. No. 1,333,244; Mar. 9; v. 272; p. 254.

Bracq, Emile, Pas de Calais, France. Furnace for ore-roasting. No. 1,356,849; Oct. 26; v. 279; p. 611.

Bracq, Emile C., Paris, France. Pyrites furnace. No. 1,335,271; Mar. 30; v. 272; p. 802.

Bracy, Edward L., Baltimore, Md. Packing-paper-cup-making machine. No. 1,338,552; Apr. 27; v. 273; p. 743.

Digitized by Google

Alphabetical list of patentees—Continued.

Bradbury, Clifford C., Chicago, Ill. Electromagnetic fuel-pump and circuit therefor. No. 1,337,388; Apr. 20; v. 273; p. 454.
Bradbury, Clifford C., Oak Park, Ill. Vacuum feed mechanism. No. 1,346,482; July 13; v. 276; p. 289.
Bradbury, Clifford C., Oak Park, assignor to C. B. Camp, Oak Park, and L. A. Williams, Evanston, Ill., joint trustees. Carbureter. No. 1,350,001; Aug. 17; v. 277; p. 489.
Bradbury, Edward L. (See Ball, Henry D., assignor.)
Bradbury, Edward R. (See Ulrich, Frank, assignor.)
Bradbury, Frederick L., Bridgeport, Conn. Cruller-forming die. No. 1,340,371; May 18; v. 274; p. 456.
Bradbury, Herbert W. (See Groves, C. D., Jarvis, and Bradbury.)
Bradbury, Walter W., Salem, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Horn-tip for McKay sewing-machines. No. 1,356,512; Oct. 26; v. 279; p. 546.
Braddock Trust Co., administrator. (See Shields, Edward.)
Braddy, Clyde E., Pinebluff, Wyo. Grain-separator. No. 1,327,193; Jan. 6; v. 270; p. 59.
Braden, Albert R., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Die and joining its ends. No. 1,327,652; Jan. 13; v. 270; p. 205.
Braden Copper Company. (See Down, Norman B., assignor.)
Braden, Robert D., and C. W. Grant, assignors to Oxweld Acetylene Company, Chicago, Ill. Acetylene-generator. No. 1,336,813; Apr. 13; v. 273; p. 270.
Braden, William J. (See Wiig, A., Braden, and Prather.)
Bradfield, Clyde C., Harbor Springs, Mich. Meter-support. No. 1,346,440; July 13; v. 276; p. 281.
Bradford, Bruce B., Hot Springs, Mont. Automobile lifter and turner. No. 1,332,599; Mar. 2; v. 272; p. 81.
Bradford, Bruce B., Hot Springs, Mont. Pen and feed pusher. No. 1,352,498; Sept. 14; v. 278; p. 186.
Bradford, Charles M., Boston, and R. C. Simmons, Beverly, Mass., assignors, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Shoe-shaping machine. No. 1,331,613; Feb. 24; v. 271; p. 545.
Bradford Dyers Association. (See Whitaker, Harold, assignor.)
Bradford, Eugene S., Detroit, Mich. Printing mechanism for cylindrical articles. No. 1,351,830; Sept. 7; v. 278; p. 23.
Bradford, George M., and J. E. Broadhead, Bay City, Mich. Recovering by-products from waste liquors. No. 1,342,737; June 8; v. 275; p. 272.
Bradford, Henry B., assignor to Edge Moor Iron Company, Edgemoor, Del. Boiler deflector-wall. No. 1,355,807; Oct. 19; v. 279; p. 360.
Bradford, Robert M., Beaumont, Tex. Well-drilling rig. No. 1,329,500; Feb. 3; v. 271; p. 80.
Bradfords Dyers' Association Limited. (See Whitehead, P. K., and Rothwell, assignors.)
Bradish, A. G., & Son. (See Bliss, George H., assignor.)
Bradish, Arthur B., Worcester, Mass. Toy figure. No. 1,355,799; Oct. 12; v. 279; p. 317.
Bradlee, Arthur T. (See Osborne, Ernest J., assignor.)
Bradley, Arthur H., *et al.* (See Smith, James F., assignor.)
Bradley, Charles F., New York, N. Y. Automatic lock device for doors. No. 1,337,638; Apr. 20; v. 273; p. 501.
Bradley, Charles S., New York, N. Y. Production of iron and steel. No. 1,353,716; Sept. 21; v. 278; p. 488.
Bradley, Franklin F., Chicago, Ill. Packaging and means for making mixed paints. No. 1,360,085; Nov. 23; v. 280; p. 715.
Bradley, George M., Lansing, Mich. Auto burglar-alarm. No. 1,327,266; Jan. 6; v. 270; p. 72.
Bradley, Isaac C., Fort Collins, Colo. Bicycle book-carrier. No. 1,362,162; Dec. 14; v. 281; p. 283.
Bradley, Jacob A., Milwaukee, assignor of one-half to Albert O. Anderson, Shawano, Wis. Nut-lock. No. 1,349,260; Aug. 10; v. 277; p. 272.
Bradley, John H., Philadelphia, Pa. Metallic bed. No. 1,337,340; Apr. 20; v. 273; p. 445.
Bradley, John M., and C. F. Pike, Philadelphia, Pa., assignors to The Safety Eyeglass Company, Wilmington, Del. Eyeglass-case. No. 1,328,644; Jan. 20; v. 270; p. 429.
Bradley, John M., and C. F. Pike, Philadelphia, Pa., assignors to The Safety Eyeglass Company, Wilmington, Del. Eyeglass-case. No. 1,328,645; Jan. 20; v. 270; p. 429.
Bradley, John M., and C. F. Pike, Philadelphia, Pa., assignors to The Safety Eyeglass Company, Wilmington, Del. Eyeglass-case. No. 1,328,646; Jan. 20; v. 270; p. 429.
Bradley, Joseph B., Miami, Fla. Hinge. No. 1,344,479; June 22; v. 275; p. 744.
Bradley, Joseph B., Miami, Fla. Wire cutting and twisting tongs. No. 1,348,694; Aug. 3; v. 277; p. 109.
Bradley, Joseph B., Miami, Fla. Window-screen catch. No. 1,352,171; Sept. 7; v. 278; p. 88.
Bradley, Linn. (See Schmidt and Bradley.)
Bradley, Linn. (See Schmidt, W. A., and Bradley.)
Bradley, Linn, East Orange, N. J., assignor to Research Corporation, New York, N. Y. Method and apparatus for electrical treatment of gases. No. 1,329,825; Feb. 3; v. 271; p. 90.
Bradley, Linn, East Orange, N. J., assignor to Research Corporation, New York, N. Y. Means for electrical treatment of gases. No. 1,333,790; Mar. 16; v. 272; p. 418.
Bradley, Linn, East Orange, N. J., assignor to Research Corporation, New York, N. Y. Orifice-precipitator. No. 1,344,330; June 22; v. 275; p. 714.
Bradley, Lynde, Milwaukee, Wis. Controlling electric motors by means of electric-current-controlling devices. No. 1,361,224; Dec. 7; v. 281; p. 48.
Bradley, Lynde, Milwaukee, Wis. Current-controlling device. No. 1,361,675; Dec. 7; v. 281; p. 140.
Bradley, Malcolm J., Oakland, Calif. Portable drill-press. No. 1,335,154; Mar. 30; v. 272; p. 782.
Bradley Pulverizer Company. (See Gibson, W. A., and Needham, assignors.)
Bradley, Richard, Swansea, Ariz. Hat. No. 1,338,283; Apr. 27; v. 273; p. 693.
Bradley, Thomas. (See McDowell, Albert, assignor.)
Bradley & Vrooman Company. (See Davidson, Donald, assignor.)
Bradley, Walter M., New Haven, Conn. Bowling-alley. No. 1,338,284; Apr. 27; v. 273; p. 693.
Bradner, B. J., *et al.* (See Nesmith, Ralph A., assignor.)
Bradshaw, Edwin, San Francisco, Calif. Door-lock. No. 1,362,669; Dec. 21; v. 281; p. 434.
Bradshaw, Franklin A., and C. C. Willis, Plains, Mont. Cleaner for threshing-machine screens or riddles. No. 1,331,614; Feb. 24; v. 271; p. 545.
Bradshaw, Grant D., Pittsburgh, Pa. Gas-valve. No. 1,342,620; June 8; v. 275; p. 249.
Bradshaw, Granville E., Walton-on-Thames, England. Carbureter. No. 1,339,095; May 4; v. 274; p. 83.
Bradshaw, Reginald H., London, England. Rimless spectacles and eyeglasses. No. 1,337,818; Apr. 20; v. 273; p. 535.
Bradshaw, Richard, Montreal, Quebec, Canada. Spring mattress-frame. No. 1,360,173; Nov. 23; v. 280; p. 733.
Bradshaw, William M., and W. G. Mylius, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Electrical measuring instrument. No. 1,336,611; Apr. 13; v. 273; p. 231.
Bradshaw, William M., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Record-sheet for measuring instruments. No. 1,363,712; Dec. 28; v. 281; p. 676.
Bradway, Frank A., Straughn, Ind. Wagon-body. No. 1,357,686; Nov. 2; v. 280; p. 92.
Brady, Francis M. (See Richard and Brady.)
Brady, James H., assignor to Visible Measure Gasoline Dispenser Company of America, Louisville, Ky. Gasolene-dispensing apparatus. No. 1,331,615; Feb. 24; v. 271; p. 545.
Brady, William F., Newark, assignor to Crocker-Wheeler Company, Ampere, N. J. Molding-machine. No. 1,351,020; Aug. 31; v. 277; p. 795.
Brække, Hans G. H., and K. Jonassen, Christiania, Norway. Box for keeping registered letters, documents, and the like, as well as register for the same. No. 1,360,086; Nov. 23; v. 280; p. 716.
Braese, John A., Mound, N. D. Resilient wheel. No. 1,349,599; Aug. 17; v. 277; p. 412.
Bragdon, George W., Smyrna Mills, assignor of one-fourth to P. H. Tarbell and one-fourth to H. J. Tarbell, Merrill, Me. Sewing-machine. No. 1,346,169; July 13; v. 276; p. 227.
Brager, Arvid, and O. Lee, Kinosee, Alberta, Canada. Skee-brake. No. 1,345,988; July 6; v. 276; p. 131.
Brager, Bernard, Brooklyn, N. Y. Hat and coat rack. No. 1,333,462; Mar. 9; v. 272; p. 296.
Bragg, Charles T., Detroit, Mich., assignor to M. Baer and A. Baer, New York, N. Y. Preparing varnish. No. 1,337,749; Apr. 20; v. 273; p. 522.
Bragg, Thomas A., assignor to The Owens Bottle Company, Toledo, Ohio. Speed-regulating means. No. 1,358,929; Nov. 16; v. 280; p. 445.
Bragg, Willie T., *et al.* (See Davis, Claude B., assignor.)
Brahtz, John H. A., St. Paul, Minn. Grain-elevator. No. 1,342,418; June 8; v. 275; p. 210.
Braid, Fountain S., New York, N. Y. Portfolio-drawer. No. 1,340,319; v. 274; p. 445.
Braile, Frank E., Shamrock, Okla. Adjustable follower-block for oil drilling and pumping rigs. No. 1,341,968; June 1; v. 275; p. 70.
Brainard, Charles E., Chicago, Ill. Pulverizing-machine. No. 1,360,364; Nov. 30; v. 280; p. 837.
Brainard, Clair. (See Root, O. L., and Brainard.)
Brain, George, New Castle, Pa., assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y. Device for supporting tableware. No. 1,333,380; Mar. 9; v. 272; p. 280.
Brain, George, New Castle, Pa., assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y. Truck superstructure for sanitary ware. No. 1,333,381; Mar. 9; v. 272; p. 280.
Braine, Bancroft G., New York, N. Y., assignor to The Rail Joint Company. Making rolled step-joints. No. 1,361,817; Dec. 14; v. 281; p. 214.

Digitized by Google

Braine, Bancroft G., Montclair, N. J., assignor to The Rail Joint Company, New York, N. Y. Adjustable rail-joint bar. No. 1,361,818; Dec. 14; v. 281; p. 214.
Bråkenhielm, Carl A. B. R., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Ball-retainer for radial ball-bearings. No. 1,352,110; Sept. 7; v. 278; p. 77.
Braley, Charles L., and C. E. Waream, Cincinnati, assignors to The American Laundry Machinery Company, Norwood, Ohio. Chain conveyer. No. 1,350,774; Aug. 24; v. 277; p. 686.
Braley, Charles L. (See Ritchie, Gavin, Jr., assignor.)
Braly, Norman B., Butte, Mont. Record-card. No. 1,327,855; Jan. 13; v. 270; p. 243.
Braly, Norman B., Butte, Mont. Factoring device. No. 1,354,375; Sept. 28; v. 278; p. 664.
Braman, Harold A., Providence, R. I. Fire-extinguisher. No. 1,362,223; Dec. 14; v. 281; p. 295.
Bramblett, Benjamin F., Houston, Tex. Gate-latch. No. 1,359,788; Nov. 23; v. 280; p. 657.
Bramer, Albert, Aredale, Iowa. Ditching-machine. No. 1,356,426; Oct. 19; v. 279; p. 482.
Brammer, William, Haverhill, Mass. Cement or adhesive applying device. No. 1,361,819; Dec. 14; v. 281; p. 214.
Bramming, Carl, Chicago, Ill., assignor to Accessories Manufacturing Company. Electric switch. No. 1,332,378; Mar. 2; v. 272; p. 40.
Bramming, Carl, Chicago, Ill., assignor to Accessories Manufacturing Company. Circuit-connector. No. 1,332,379; Mar. 2; v. 272; p. 40.
Bramson, Morgens L. (See Hanson, J., and Bramson.)
Bramwell-Ragen Corporation. (See Gunderson, Julius, assignor.)
Brancel, Orville M. (See Peterson, O. A., and Brancel.)
Branch, Charles J., Philadelphia, Pa. Concrete anchor or insert. No. 1,352,245; Sept. 7; v. 278; p. 102.
Brand, Charles F., Wheeling, W. Va. Gas-burner. No. 1,348,261; Aug. 3; v. 277; p. 26.
Brand, Frederick F., Pittsfield, Mass., assignor to General Electric Company. Transformer. No. 1,331,896; Feb. 24; v. 271; p. 599.
Brand, George P., New York, N. Y. Detachable bottom-action unit for automatic musical instruments. No. 1,351,280; Aug. 31; v. 277; p. 847.
Brand, Harry R., New York, N. Y. Segregating system. No. 1,360,617; Nov. 30; v. 280; p. 888.
Brand, Henry B., St. Louis, Mo. Cherry-seeder. No. 1,357,377; Nov. 2; v. 280; p. 34.
Brand, Johan W., The Hague, Netherlands. Apparatus for mounting or removing pneumatic tires. No. 1,353,020; Sept. 14; v. 278; p. 290.
Brandenberger, Carl F., Fort Madison, Iowa. Spring tension for power or hand pumps. No. 1,348,203; Aug. 3; v. 277; p. 14.
Brandenburg, Albert F., assignor of one-half to H. E. Palmer, Dayton, Ohio. Universal sign. No. 1,334,591; Mar. 23; v. 272; p. 614.
Brandenburg, Albert F., assignor of one-half to H. E. Palmer, Dayton, Ohio. Pen-brush. No. 1,353,625; Sept. 21; v. 278; p. 470.
Brandenburger, John A. (See McKelvey and Brandenburger.)
Brandenstein, Daniel, New York, N. Y., and J. Fischer, Roseville, N. J. Pedal-operated mechanism. No. 1,327,137; Jan. 6; v. 270; p. 48.
Brandenstein, M. J., & Co. (See Pisani, William H., assignor.)
Brandon, Irwin, Naughton Glen, Alberta, Canada. Comb-cleaner. No. 1,340,817; May 18; v. 274; p. 540.
Brandon, Jarvies D., Lancaster, Ohio. Drill-retriever. No. 1,352,172; Sept. 7; v. 278; p. 88.
Brandon, Julian R., Jr., San Francisco, Calif. Condenser for radiators. No. 1,351,891; Sept. 7; v. 278; p. 36.
Brandon, William J., assignor to Avery Company, Peoria, Ill. Carbureter. No. 1,362,389; Dec. 14; v. 281; p. 327.
Brandstetter, Josef, assignor to Acme Engineering & Mfg. Co., Chicago, Ill. Speed-indicator. No. 1,354,278; Sept. 28; v. 278; p. 645.
Brandstetter, Josef, Chicago, Ill. Fiber-needle cutter. No. 1,362,583; Dec. 14; v. 281; p. 364.
Brandt, Carl A. W., Manhasset, N. Y., and A. J. Langelier, Providence, R. I., assignors to Locomotive Superheater Company, New York, N. Y. Swaging-machine for making U-shaped pipe-bends. No. 1,339,054; May 4; v. 274; p. 75.
Brandt, Charles D., New York, N. Y., assignor of one-half to E. J. Schweizer, Ridgewood, N. Y. Pump-piston. No. 1,338,765; May 4; v. 274; p. 22.
Brandt, Charles D., New York, assignor of one-half to E. J. Schweizer, Ridgewood, N. Y. Pump-stirrup. No. 1,339,943; May 11; v. 274; p. 318.
Brandt, Charles D., Richmond Hill, assignor of one-half to E. J. Schweizer, Ridgewood, N. Y. Pump. No. 1,356,255; Oct. 19; v. 279; p. 449.
Brandt, Edward J., Watertown, Wis. Packaged-coin holder. No. 1,358,411; Nov. 9; v. 280; p. 296.
Brandt, Ernest J. (See Bashwiner, C. and P., and Brandt.)
Brandt, Fokko H. G. (See Evans, John R., and Brandt.)
Brandt, Fokko H. G., and G. K. Krell, Kansas City, Mo. Adjustable stringer-support for scaffolds. No. 1,346,170; July 13; v. 276; p. 228.
Brandt, Henry F., Peoria, Ill. Vehicle-wheel. No. 1,354,163; Sept. 28; v. 278; p. 621.
Brandt, Herman, Fort Worth, Tex. Valve control for radiator drain-cocks. No. 1,347,612; July 27; v. 276; p. 628.
Brandt, Howard W., Lawyers, Va. Protector for beehives and the like. No. 1,361,361; Dec. 7; v. 281; p. 76.
Brandt, Lewis, Pittsburgh, Pa. Concrete construction. No. 1,349,600; Aug. 17; v. 277; p. 412.
Brandt, Matthew A., asignor to J. G. Eddy, Minneapolis, Minn. Combined letter-sheet and envelop. No. 1,340,114; May 11; v. 274; p. 351.
Brandt, Maurice L., Brooklyn, N. Y. Hair-trimmer and comb therefor. No. 1,359,666; Nov. 23; v. 280; p. 632.
Brandt, Otto C., St. Paul, Minn. Hose-coupling. No. 1,333,791; Mar. 16; v. 272; p. 418.
Brandt, William F., assignor to Wayne Oil Tank and Pump Company, Fort Wayne, Ind. Pump-piston. No. 1,362,838; Dec. 21; v. 281; p. 467.
Branham, Oscar S., Roswell, N. Mex. Weather-strip. No. 1,343,304; June 15; v. 275; p. 447.
Branin, John E., San Lorenzo, Calif. Pipe-clamp. No. 1,343,548; June 15; v. 275; p. 496.
Brannigan, Robert A. (See Hanch, C. C., and Brannigan.)
Branning, Willie F., San Antonio, Tex. Valve-grinding machine. No. 1,361,134; Dec. 7; v. 281; p. 30.
Branson, Edward H., Pittsfield, Mass., assignor to General Electric Company. Universal die. No. 1,340,006; May 11; v. 274; p. 330.
Branson, Horace M., Knoxville, Tenn. Blank form. No. 1,339,942; May 11; v. 274; p. 318.
Branson, Samuel J., Chicago, Ill., and E. C. Strathmann, assignors to The Concrete Forms Company, Indianapolis, Ind. False work for concrete floors. No. 1,327,081; Jan. 6; v. 270; p. 88.
Brant, Harry T., and H. M. Turner, Charleston, S. C. Propelling device. No. 1,331,952; Feb. 24; v. 271; p. 609.
Brantegan, Arthur, Chicago, Ill. Reversible pulley. No 1,361,003; Dec. 7; v. 281; p. 4.
Brasch, Louis F., Newark, N. J. Hanger-supporting rail for wardrobe-trunks. No. 1,332,286; Mar. 2; v. 272; p. 21.
Brasco Manufacturing Company. (See Hester, George C., assignor.)
Brash, Albert W., Newark, S. D. Silo. No. 1,335,649; Mar 30; v. 272; p. 874.
Brasier, William H., Corpus Christi, Tex. Razor. No. 1,343,900; June 22; v. 275; p. 630.
Braslowsky, Philip, New York, N. Y. One-piece coat. No. 1,361,820; Dec. 14; v. 281; p. 215.
Brasted, Clair H., East Cleveland, Ohio, assignor, by mesne assignments, to Ludlow Typograph Company, Chicago, Ill. Method of and apparatus for forming metal strips. No. 1,344,577; June 22; v. 275; p. 763.
Brass Goods Mfg. Co. (See Frey, A. J., and Hyatt, assignors.)
Bratt, Barney P., Baker, Oreg. Loading and unloading apparatus. No. 1,330,163; Feb. 10; v. 271; p. 185.
Brauer, August, deceased, Independence, assignor of one-half to G. P. A. Weisenborn, Kansas City, Mo.; C. Brauer, executrix. Rotary pump. No. 1,350,775; Aug. 24; v. 277; p. 687.
Brauer, August, deceased, Independence, assignor of one-half to G. P. A. Weisenborn, Kansas City, Mo.; C. Brauer, executrix. Rotary engine. No. 1,363,389; Dec. 28; v. 281; p. 613.
Brauer, Charlotta, executrix. (See Brauer, August.)
Brauer, Otto M., Gothenburg, Nebr. Toy car. No. 1,328,557; Jan. 20; v. 270; p. 413.
Braun, Carl F., San Francisco, Calif. Evaporator. No. 1,334,014; Mar. 16; v. 272; p. 460.
Braun, Carl F., San Francisco, Calif. Water-cooling tower. No. 1,334,515; Mar. 23; v. 272; p. 600.
Braun, Carl F., San Francisco, Calif. Heat-exchanger. No. 1,353,449; Sept. 21; v. 278; p. 433.
Braun, Charles J. (See Janson, C. G., and Braun.)
Braun, Fredrick. (See Ziemer, F., and Braun.)
Braun, William P., Brooklyn, N. Y. Brush. No. 1,337,819; Apr. 20; v. 273; p. 535.
Braun, William P. M., assignor to Pennsylvania Lawn Mower Works, Philadelphia, Pa. Lawn-mower structure. No. 1,338,285; Apr. 27; v. 273; p. 693.
Braune, Isidor D., Brooklyn, N. Y. Window-guard. No. 1,333,896; Mar. 16; v. 272; p. 437.
Bräuning, Karl A., Zaandam, Netherlands. Automatic firearm. No. 1,350,543; Aug. 24; v. 277; p. 641.
Braunschweig, Georges, Chaux-de-Fonds, Switzerland. Clockwork. No. 1,338,609; Apr. 27; v. 273; p. 753.
Braunstein, Julius, New York, N. Y. Fluid-heater. No. 1,356,427; Oct. 19; v. 279; p. 482.
Brautigam, Frederick H. (See Ardouin, Daniel, assignor.)
Brawn, Charles A., Philadelphia, Pa. Loading device. No. 1,336,674; Apr. 13; v. 273; p. 243.
Braxton, William T., Philadelphia, Pa. Folding table. No. 1,334,434; Mar. 23; v. 272; p. 585.
Bray, Charles E., Monroe, Iowa. Disk-sharpener. No. 1,343,342; June 15; v. 275; p. 455.
Bray, Michael J., Upland, Pa. Splicing-thimble. No. 1,327,856; Jan. 13; v. 270; p. 244.

Digitized by Google

Alphabetical list of patentees—Continued.

Bray, Nelson H., San Francisco, Calif. Automatic igniter for orchard-heaters. No. 1,328,788; Jan. 20; v. 270; p. 455.

Bray, Sidney W., Ilford, and I. H. Balfour, Buckhurst Hill, assignors to The British Oxygen Company, Limited, Westminster, London, England. Manufacture or production of hydrogen. No. 1,360,876; Nov. 30; v. 280; p. 938.

Brayman, Louis M., Westville, N. H. Mixer. No. 1,328,119; Jan. 13; v. 270; p. 293.

Brazeal, Frank E. (See Loftus, T. F., and Brazeal.)

Brazeal, Thomas E., Maitland, W. Va. Fluid-pressure circuit-closer. No. 1,338,896; May 4; v. 274; p. 45.

Brazeau, Oscar W., Lena, Wis. Automatic discount-calendar. No. 1,364,030; Dec. 28; v. 281; p. 737.

Brazil, David H., Montgomery, Ala. Fluid-fuel burner. No. 1,329,224; Jan. 27; v. 270; p. 567.

Brazil Hollow Brick & Tile Company. (See McCrea, Thomas H., assignor.)

Brazill, Patrick V., Paquette Station, Ontario, Canada. Rural mail-box. No. 1,336,417; Apr. 13; v. 273; p. 195.

Breakey, Lewis I., Marshall, Mich. Automatic shut-off for water-gage glasses. No. 1,361,303; Dec. 7; v. 281; p. 64.

Breakstone, Irving. (See Baldwin, Charles E., assignor.)

Breakstone, Samuel, assignor to The Empire Tinware Company, Brooklyn, N. Y. Household article. No. 1,356,647; Oct. 12; v. 279; p. 288.

Brecht, Frank v., and H. W. Tohtz, assignors to Gus V. Brecht Butchers' Supply Company, St. Louis, Mo. Carcass scraping and polishing machine. No. 1,350,435; Aug. 24; v. 277; p. 620.

Brecht, Frank v., and H. W. Tohtz, assignors to Gus v. Brecht Butcher's Supply Company, St. Louis, Mo. Beater for hog-scraping machines. No. 1,352,576; Sept. 14; v. 278; p. 200.

Brecht, G. v., Butcher's Supply Company. (See Brecht, Frank v., and Tohtz, assignors.)

Brecht, Gus v., Butchers' Supply Company. (See Brecht, F. v., and Tohtz, assignors.)

Breckenridge, Arthur N., Rockford, Ill. Power-drive for cream-separators. No. 1,348,695; Aug. 3; v. 277; p. 109.

Breckenridge, George M., assignor of one-half to J. P. McManus, Chicago, Ill. Printing mechanism. No. 1,336,988; Apr. 13; v. 273; p. 303.

Breckenridge, Harold C., Musselshell, Mont. Railway electric lantern. No. 1,349,548; Aug. 10; v. 277; p. 329.

Breden, Otis W., Philadelphia, Pa. Distributing apparatus. No. 1,360,493; Nov. 30; v. 280; p. 863.

Bredenberg, Alfred, Champlain, N. Y., assignor of one-half to Sheridan Iron Works and one-half to T. W. and C. B. Sheridan Company. Intermittent-driving mechanism for book binding or covering machines. No. 1,347,492; July 27; v. 276; p. 604.

Bredenberg, Alfred, assignor of one-half to The Sheridan Iron Works and one-half to T. W. & C. B. Sheridan Company, Champlain, N. Y. Book binding or covering machine. No. 1,355,445; Oct. 12; v. 279; p. 249.

Bredlik, Vladimir, New York, N. Y. Purification of ammonium salts. No. 1,346,106; July 13; v. 276; p. 216.

Bredsvold, Norine, *et al.* (See Bredsvold, Paul A., assignor.)

Bredsvold, Paul A., Chicago, Ill., assignor of five-twelfths to F. P. Thompson, two-twelfths to F. M. Fairfield, and five-twelfths to N. Bredsvold. Lighting-fixture. No. 1,352,111; Sept. 7; v. 278; p. 77.

Breeding, Robert G., Cincinnati, Ohio. Liquid-fuel-burning furnace. No. 1,341,294; May 25; v. 274; p. 703.

Breen, Michael J., Louisville, Ky. Tool-holder. No. 1,342,983; June 8; v. 275; p. 322.

Breeze, George A., Detroit, Mich. Shim-holder for valve-tappets. No. 1,340,211; May 18; v. 274; p. 426.

Breguet, Louis, Velizy, France, assignor to Societe Anonyme Des Ateliers D'Aviation Louis Breguet, Velizy, Seine-et-Oise, France. Connection of tubes of dissimilar metals. No. 1,347,075; July 20; v. 276; p. 466.

Brehm, Charlie M., Dayton, Ohio. Attachment for paring-knives. No. 1,333,960; Mar. 16; v. 272; p. 450.

Breidert, George C., Chicago, Ill. Ventilator. No. 1,358,412; Nov. 9; v. 280; p. 297.

Breidert, George C., assignor to Auto Utilities Manufacturing Company, Chicago, Ill. Ventilator. No. 1,362,982; Dec. 21; v. 281; p. 493.

Breinig, Charles O. (See Breinig, Henry L. and C. O.)

Breinig, Henry L. and C. O., Terre Haute, Ind. Amusement device. No. 1,334,592; Mar. 23; v. 272; p. 645.

Breining, Clayton P., Mill Hall, Pa. Fountain-toothbrush. No. 1,340,115; May 11; v. 274; p. 351.

Breinl, Joseph C., Prague, Czechoslovakia. Valve. No. 1,349,145; Aug. 10; v. 277; p. 249.

Breitenbach, Julius M., New York, N. Y. Electric motor. No. 1,348,539; Aug. 3; v. 277; p. 79.

Bremer, Russel H., New York, N. Y. Refrigerator. No. 1,357,839; Nov. 2; v. 280; p. 122.

Bremer, Russell H., assignor of one-third to N. Dacunto and one-third to I. Firenberg, New York, N. Y. Box-forming apparatus. No. 1,355,031; Oct. 5; v. 279; p. 115.

Bremner, George D., Brooklyn, N. Y. Attachment for cigar-boxes. No. 1,331,314; Feb. 17; v. 271; p. 467.

Brenan, Thomas E., New Orleans, La. Collector's book-cover and wallet. No. 1,359,319; Nov. 16; v. 280; p. 518.

Brenan, Thomas E., New Orleans, La. Collector's wallet. No. 1,359,320; Nov. 16; v. 280; p. 518.

Brendle, Frank F., assignor of one-third to Roy C. Carruthers and one-third to M. Carruthers, Salina, Kans. Direction-indicator for vehicles. No. 1,343,761; June 15; v. 275; p. 538.

Brenizer, Lovell T., Kansas City, Mo. Chalk-line reel. No. 1,364,031; Dec. 28; v. 281; p. 737.

Brenizer, Orson W., Philadelphia, Pa. Hair-curler. No. 1,352,871; Sept. 14; v. 278; p. 262.

Brenizer, Orson W., assignor of one-fifth to A. V. Groupe, Philadelphia, Pa. Cable-support. No. 1,349,043; Aug. 10; v. 277; p. 229.

Brenkert, Joseph W., San Diego, Calif. Vehicle signal apparatus. No. 1,331,860; Feb. 24; v. 271; p. 592.

Brenkert, Joseph W., San Diego, Calif. Lemon-juice extractor. No. 1,344,857; June 29; v. 275; p. 883.

Brenkert, Joseph W., San Diego, Calif. Water-filter and silt-conserving pipe. No. 1,355,073; Oct. 5; v. 279; p. 124.

Brenkert, Joseph W., San Diego, Calif. Service water-pipe, silt-deflector, and filter. No. 1,355,306; Oct. 12; v. 279; p. 223.

Brennan, Edward M., Waterbury, Conn. Screw-making machine. No. 1,359,572; Nov. 23; v. 280; p. 614.

Brennan, James L., Marshall, Mich. Truss. No. 1,364,032; Dec. 28; v. 281; p. 737.

Brennan, John S., Milwaukee, Wis. Means for lifting burner-drums. No. 1,327,857; Jan. 13; v. 270; p. 244.

Brennan, John S., Milwaukee, Wis. Wick. No. 1,327,858; Jan. 13; v. 270; p. 244.

Brennan, John S., Milwaukee, Wis. Fuel-reservoir. No. 1,343,343; June 15; v. 275; p. 455.

Brennan, Lawrence, Red Deer, Alberta, Canada. Operating mechanism for pumps. No. 1,345,909; July 6; v. 276; p. 115.

Brennan, Michael E., Hudson, N. Y. Undertaker's appliance. No. 1,361,135; Dec. 7; v. 281; p. 31.

Brennan, Patrick J., Tuxedo Park, N. Y. Ash-sifter. No. 1,357,143; Oct. 26; v. 279; p. 669.

Brennan, Susanne G., Highland Park, Mich. Abdominal supporter. No. 1,359,573; Nov. 23; v. 280; p. 614.

Brennan, William J., Danielson, Conn. Jack-winder for yarn. No. 1,362,470; Dec. 14; v. 281; p. 342.

Brenner, Louisa M. (See Funk, Bernhard, assignor.)

Brenner, Lupu W., Detroit, Mich. Puppet-valve. No. 1,342,419; June 8; v. 275; p. 211.

Brenner, Ralph F. (See Scholes and Brenner.)

Brenner, Richard M., Palisade, N. J. Race-game apparatus. No. 1,344,480; June 22; v. 275; p. 744.

Brenner, Richard M., Palisade, N. J. Race-game apparatus. No. 1,346,697; July 13; v. 276; p. 332.

Brenner, William C. Tumwater, assignor of one-half to R. Clayton, Olympia, Wash. Rail-bond punch. No. 1,343,901; June 22; v. 275; p. 630.

Brent, Sprigg, Covington, Ky. Burial-casket handle. No. 1,345,314; June 29; v. 275; p. 970.

Brenton, Frank H., assignor to United States Portable Cribbing Company, Pittston, Pa. Knockdown cribbing. No. 1,361,516; Dec. 7; v. 281; p. 109.

Brensinger, Julius, Fairfield, Conn., assignor to Sanitary Can Machinery Company, Ellsworth, Me. Non-circular-can-cover-lining machine. No. 1,347,483; July 20; v. 276; p. 546.

Brenzinger, Julius, Fairfield, assignor to The Max Ams Machine Co., Bridgeport, Conn. Can-body-side-seam-soldering-machine. No. 1,349,044; Aug. 10; v. 277; p. 229.

Brenzinger, Julius, Fairfield, assignor to The Max Ams Machine Company, Bridgeport, Conn. Can-heading machine. No. 1,351,831; Sept. 7; v. 278; p. 23.

Bresin, Louis, assignor to Adams-Williams Manufacturing Corporation, New York, N. Y. Convertible automobile-body construction. No. 1,348,624; Aug. 3; v. 277; p. 96.

Breslaw, Harry L., New York, N. Y. Fur cap. No. 1,332,883; Mar. 9; v. 272; p. 186.

Bresnahan, John, and A. Davis, Newark, N. J. Wrench. No. 1,355,307; Oct. 12; v. 279; p. 223.

Bressler, Robert E., Hammond, assignor to O. F. Jordan Company, East Chicago, Ind. Railway way construction and maintenance car. No. 1,328,489; Jan. 20; v. 270; p. 400.

Bressler, Robert E., Hammond, assignor to O. F. Jordon Company, East Chicago, Ind. Railroad-way construction and maintenance car. No. 1,347,677; July 27; v. 276; p. 641.

Breth, Maximilian, New York, N. Y., and T. R. Atkinson, Dunnellen, N. J., assignors to Breth System, Inc. Cloth-holder for cutting-tables. No. 1,358,515; Nov. 9; v. 280; p. 317.

Breth System, Inc. (See Breth, M., and Atkinson, assignors.)

Bretherton, Francis J. (See Bell, W. T., and Bretherton.)

Bretholl, C. F. (See Huneycutt, Charles F., assignor.)

Bretscher, Hans, New York, N. Y., assignor of one-half to A. Pecoretti and one-half to F. Matz, Elizabeth, N. J. Trousers-stretcher. No. 1,362,839; Dec. 21; v. 281; p. 467.

Digitized by Google

Brett Process Screen Company. (See Corbett, Harry A., assignor.)
Breuckman, Franklin C., and G. T. Arnold, Mackinac Island, Mich. Carriage-return mechanism for typewriters. No. 1,342,940; June 8; v. 275; p. 313.
Breul, Richard A., Bridgeport, Conn. Doorknob. No. 1,341,969; June 1; v. 275; p. 70.
Breul, Richard A., Bridgeport, Conn. Mortise door-lock. No. 1,355,123; Oct. 12; v. 279; p. 186.
Breves, Carl G. (See Bricker, Edward J., assignor.)
Brewen, William M., and F. P. Foster, San Jose, Calif. Tractor. No. 1,331,141; Feb. 17; v. 271; p. 436.
Brewer, Charles A., & Sons. (See Brewer, Charles A., assignor.)
Brewer, Charles A., Noroton Heights, Conn., assignor to Adjuria Incorporated. First-aid kit. No. 1,337,433; Apr. 20; v. 273; p. 462.
Brewer, Charles A., assignor to Charles A. Brewer & Sons, Chicago, Ill. Board-filling machine. No. 1,339,595; May 11; v. 274; p. 252.
Brewer, Charles A., assignor to Charles A. Brewer & Sons, Chicago, Ill. Crimping and plaiting machine. No. 1,361,959; Dec. 14; v. 281; p. 243.
Brewer, Donald A., assignor to The Brewer-Titchener Corporation, Cortland, N. Y. Bow-socket. No. 1,347,678; July 27; v. 276; p. 641.
Brewer, Granville E., Long Beach, Calif. Non-blinding headlight. No. 1,334,646; Mar. 23; v. 272; p. 624.
Brewer, Griffith, London, England. Adjustable dial for pressure-gages and like dial instruments. No. 1,328,941; Jan. 27; v. 270; p. 515.
Brewer, Griffith, London, England. Pressure-gage. No. 1,350,513; Feb. 10; v. 271; p. 250.
Brewer, Henry, assignor to Leeds & Northrup Company Philadelphia, Pa. Control apparatus. No. 1,356,804; Oct. 26; v. 279; p. 602.
Brewer, Henry, assignor to Leeds & Northrup Company, Philadelphia, Pa. Measuring and indicating apparatus. No. 1,361,362; Dec. 7; v. 281; p. 76.
Brewer, Henry, assignor to Leeds & Northrup Company, Philadelphia, Pa. Measuring and indicating apparatus. No. 1,361,676; Dec. 7; v. 281; p. 140.
Brewer, Lida F., Toms Creek, Va. Pipe-hanger. No. 1,332,796; Mar. 2; v. 272; p. 119.
Brewer, Oscar Z., Spokane, Wash. Timing mechanism. No. 1,358,186; Nov. 9; v. 280; p. 250.
Brewer, Oscar Z., Spokane, Wash. Timing mechanism. No. 1,358,187; Nov. 9; v. 280; p. 251.
Brewer-Titchener Corporation, The. (See Brewer, Donald A., assignor.)
Brewer-Titchener Corporation, The. (See Winans, Daniel M., assignor.)
Brewer, William E., Chattanooga, Tenn. Dirigible headlight. No. 1,359,226; Nov. 16; v. 280; p. 499.
Brewster, Albert R. (See Beede, Neal M., assignor.)
Brewster, Arthur M. (See Allis, Dexter W., assignor.)
Brewster, Charles W., assignor to The Brewster-Goldsmith Corporation, Inc., New York, N. Y. Antisubmarine device. No. 1,331,800; Feb. 24; v. 271; p. 581.
Brewster, Elmer J. (See Murrin, J., and Brewster.)
Brewster, Elmer J., and J. Murrin, Chicago, Ill. Safety draw-bar. No. 1,360,877; Nov. 30; v. 280; p. 930.
Brewster-Goldsmith Corporation, The. (See Brewster, Charles W., assignor.)
Brewster, Guy O., *et al.* (See Brewster, Guy O., assignor.)
Brewster, Guy O., Dover, N. J. Bullet-proof armor. No. 1,318,204; Aug. 3; v. 277; p. 14.
Brewster, Guy O., Dover, N. J., assignor to G. O. Brewster and E. Heller. Bullet-proof armor. No. 1,350,062; Aug. 17; v. 277; p. 501.
Brewster, Leon B., and F. Welsehan, assignors to The Ferro Machine and Foundry Company, Cleveland, Ohio. Welding. No. 1,327,267; Jan. 6; v. 270; p. 73.
Brewster, Morris B., Chicago, Ill. Packing-ring. No. 1,357,219; Nov. 2; v. 280; p. 4.
Brewster, Morris B., Chicago, Ill. Automatic cylinder-cock. No. 1,361,004; Dec. 7; v. 281; p. 4.
Brewster, Percy D., East Orange, N. J. Color cinematography. No. 1,359,024; Nov. 16; v. 280; p. 462.
Brewster, Percy, D., East Orange, N. J. Apparatus for color cinematography. No. 1,359,025; Nov. 16; v. 280; p. 462.
Brewster, Robert, Chicago, Ill. Spark-plug. No. 1,362,773; Dec. 21; v. 281; p. 454.
Brewster, Theodore A., St. Louis, Mo. Street-car truck. No. 1,345,528; July 6; v. 276; p. 40.
Brewster-Titchener Corporation, The. (See Winans, Daniel M., assignor.)
Brewster, William A., Redlands, Calif. Heating device. No. 1,337,038; Apr. 13; v. 273; p. 314.
Breyer, Frank G., and E. H. Bunce, Palmerton, Pa., assignors to The New Jersey Zinc Company, New York, N. Y. Treating zinc oxid. No. 1,339,544; May 11; v. 274; p. 242.
Breyer, Frank G., and E. H. Bunce, Palmerton, Pa., assignors to New Jersey Zinc Company, New York, N. Y. Treating zinc oxid. No. 1,339,545; May 11; v. 274; p. 242.
Brian, James C., Maxbass, N. D. Seat for agricultural implements. No. 1,345,830; July 6; v. 276; p. 98.
Briant, Walter J. (See Erb, C. J., and Briant.)
Brice, Arthur W., and I. E. Booth, Rochester, N. Y., assignors, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for marking shoe-uppers. (Reissue.) No. 14,966; Oct. 26; v. 279; p. 682.
Brichacek, Anton E., Clarkson, Nebr. Attachment for manure-spreaders. No. 1,342,249; June 1; v. 275; p. 125.
Brick, Samuel E., Salina, Kans. Book or pad. No. 1,341,782; June 1; v. 275; p. 34.
Bricken, John, Chicago, Ill., assignor, by mesne assignments, to Wahl Company, Wilmington, Del. Calculating-machine. No. 1,334,278; Mar. 23; v. 272; p. 555.
Bricken, John, Chicago, Ill., assignor to The Wahl Company, Wilmington, Del. Pencil. No. 1,351,552; Aug. 31; v. 277; p. 901.
Bricker, Edward J., assignor of one-half to C. G. Breves, Minneapolis, Minn. Axle lock-nut. No. 1,363,452; Dec. 28; v. 281; p. 625.
Bricker, Grace L., Anderson, Ind. Combination comb and brush. No. 1,328,120; Jan. 13; v. 270; p. 293.
Brickey, Robert S., Aberdeen, S. D. Auxiliary throttle-controller. No. 1,351,852; Sept. 7; v. 278; p. 23.
Bricknell, John S. (See Hegerhorst, John, assignor.)
Bridge, Arthur, Washington, D. C. Sea-water battery for vessels. No. 1,332,483; Mar. 2; v. 272; p. 59.
Bridge, Robert, Castleton, England. Apparatus for manufacturing jointing material. No. 1,330,054; Feb. 10; v. 271; p. 164.
Bridge, Walter G., Newton, Mass. Universal dental pliers. No. 1,341,107; May 25; v. 274; p. 667.
Bridgeport Brass Company. (See Clark, Walter R., assignor.)
Bridgeport Hardware Manufacturing Corporation, The. (See Hobbs, Willis F., assignor.)
Bridgers, John E. (See Smith, Henry, assignor.)
Bridgers, John E., Richmond, Va. Check-book. No. 1,334,593; Mar. 23; v. 272; p. 615.
Bridges, Alonzo J. (See Ash, H. S., and Bridges.)
Bridges, Bertha A., Leesville, S. C. Clothespin. No. 1,337,434; Apr. 20; v. 273; p. 462.
Bridges, William H., assignor of one-fourth to M. W. Jennings and one-fourth to S. D. Hart, Cincinnati, Ohio. Cigar-holder. No. 1,347,204; July 20; v. 276; p. 490.
Bridgham, Arthur L., assignor of one-half to C. H. Sherburne, Boston, Mass. Locomotive. No. 1,354,238; Sept. 28; v. 278; p. 637.
Bridgman, Melvin, Flint, Mich. Record-album. No. 1,359,867; Nov. 23; v. 280; p. 672.
Bridgwate., Herbert E., Syracuse, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,342,941; June 8; v. 275; p. 314.
Briechle, Ambrosius, Brooklyn, N. Y., assignor to Wales Adding Machine Company, Wilkes-Barre, Pa. Calculating-machine. No. 1,335,815; Apr. 6; v. 273; p. 21.
Briechle, Ambrosius, Brooklyn, N. Y., assignor to Wales Adding Machine Company, Wilkes-Barre, Pa. Accounting-machine. No. 1,336,192; Apr. 6; v. 273; p. 92.
Brierly, Jeannette S., Pelham, N. Y. Shirtwaist-belt. No. 1,331,557; Feb. 24; v. 271; p. 534.
Brigel, Samuel G., assignor to J. M. Haverty, trustee, Pittsburgh, Pa. Method and apparatus for producing a combustible mixture. No. 1,346,935; July 20; v. 276; p. 438.
Brigg, Thomas H., London, England. Method of and apparatus for hauling limbered vehicles. No. 1,331,123; Feb. 17; v. 271; p. 433.
Briggs, Alfred A., New York, N. Y. Portable excavator. No. 1,339,687; May 11; v. 274; p. 270.
Briggs, Benjamin F. (See Allen, James A., assignor.)
Briggs, Charles A. (See Cooper, Hamilton A., assignor.)
Briggs, Clark A. (See Martel, F. J., Briggs, Macaulay, Wright, and Wenner.)
Briggs, Frank A., Bellingham, Wash. Device for repairing fenders of automobiles. No. 1,348,625; Aug. 3; v. 277; p. 96.
Briggs, George F., Beaumont, Tex. Automatic safety-target. No. 1,348,540; Aug. 3; v. 277; p. 79.
Briggs, John C., Cumberland, England, assignor to Aero & General Pump Manufacturing Company, Limited. Pump. No. 1,338,118; Apr. 27; v. 273; p. 662.
Briggs, John W., Moorhead, Minn. Folding easel. No. 1,359,026; Nov. 16; v. 280; p. 462.
Briggs, Nathaniel C., Los Angeles, Calif. Direction-indicator for motor-vehicles. No. 1,329,750; Feb. 3; v. 271; p. 75.
Briggs, Nathaniel C., Los Angeles, Calif. Direction-indicator. No. 1,329,751; Feb. 3; v. 271; p. 76.
Briggs, Peter A. (See Wright, Henry W., assignor.)
Briggs, Robert E., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Conveyer-chain. No. 1,361,821; Dec. 14; v. 281; p. 215.
Briggs, Robert M., Pittsfield, Mass., assignor to General Electric Company. Method and apparatus for applying shellac and the like to sheet materials. (Reissue.) No. 14,833; Apr. 6; v. 273; p. 132.
Briggs, Stephen F., and E. N. Jacobi, assignor to Briggs & Stratton Company, Milwaukee, Wis. Pedal-switch. No. 1,336,066; Apr. 6; v. 273; p. 68.
Briggs & Stratton Company. (See Briggs, S. F., and Jacobi, assignors.)

Digitized by Google

Alphabctical list of patentees—Continued.

Briggs and Stratton Company. (See Smith, Reuben S., assignor.)
Briggs, Thomas, Leicester, England, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Fastening-inserting machine. No. 1,359,574; Nov. 23; v. 280; p. 614.
Bright, Fred E., Philadelphia, Pa. Chuck. No. 1,327,194; Jan. 6; v. 270; p. 59.
Bright, Graham, Wilkins township, Allegheny county, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,355,533; Oct. 12; v. 279; p. 267.
Bright, Graham, Wilkinsburg, H. F. Holy, Pittsburgh, and H. K. Hardcastle, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Control system. No. 1,347,890; July 27; v. 276; p. 684.
Brightman, Joseph F., Syracuse, N. Y. Steam-trap. No. 1,327,939; Jan. 13; v. 270; p. 259.
Brightwell, Dallas, Frankfort, Ky. Creeper. No. 1,336,276; Apr. 6; v. 273; p. 108.
Brill, Ira D., Marlington, W. Va. Lock. No. 1,350,356; Aug. 24; v. 277; p. 604.
Brill, J. G., Company, The. (See Curwen, Samuel M., assignor.)
Brill, Philip B., assignor to The Lake Torpedo Boat Company of Maine, Bridgeport, Conn. Submarine boat. No. 1,330,755; Feb. 10; v. 271; p. 295.
Brilliant, Mark L., San Francisco, Calif., assignor of one-half to C. E. Brinkman. Davenport-bed. No. 1,351,011; Aug. 24; v. 277; p. 731.
Brinckerhoff, Francis M., Englewood, assignor to L. B. Stillwell, Lakewood, N. J., and H. S. Putnam, New York, N. Y. Railway-car. No. 1,355,209; Oct. 12; v. 279; p. 204.
Briner, Frank, Chester, Pa., assignor to Penn Seaboard Steel Corporation, Philadelphia, Pa. Stockless anchor. No. 1,335,816; Apr. 6; v. 278; p. 21.
Bringman, Earl L., Marshalltown, Iowa. Shield for locomotive shaker-levers. No. 1,358,516; Nov. 9; v. 280; p. 317.
Bringman, John M., Rockyford, Alberta, Canada. Spark-plug. No. 1,333,897; Mar. 16; v. 272; p. 438.
Brink, Charles E. (See Newton, Dan, assignor.)
Brink, Harry L., assignor to American Hoist & Derrick Co., St. Paul, Minn. Sheave-block. No. 1,337,341; Apr. 20; v. 273; p. 445.
Brink, Joseph J., Wamac, Ill. Means for automatically lifting the lids of journal-boxes of trains. No. 1,332,797; Mar. 2; v. 272; p. 119.
Brinker, Samuel N., Minneapolis, Minn. Car-brake. No. 1,346,171; July 13; v. 276; p. 228.
Brinkhaus, Hugo, Brooklyn, N. Y. Hair-dressing device. No. 1,327,980; Jan. 13; v. 270; p. 267.
Brinkman, Charles E. (See Brilliant, Mark L., assignor.)
Brinkman, Louis H., Glen Ridge, N. J., assignor to Titeflex Metal Hose Corporation. Tube. No. 1,327,195; Jan. 6; v. 270; p. 59.
Brinkman, Louis H., Glen Ridge, N. J., assignor to Ball Rolled Tube Corporation. Method and apparatus for drawing metal. No. 1,329,455; Feb. 3; v. 271; p. 21.
Brinkman, Louis H., Glen Ridge, N. J., assignor to Titeflex Metal Hose Corporation. Flexible tube. No. 1,340,818; May 18; v. 274; p. 540.
Brinkman, Louis H., assignor to Ball Rolled Tube Corporation, Glen Ridge, N. J. Metal-drawing apparatus. No. 1,360,087; Nov. 23; v. 280; p. 716.
Brinkman, Louis H., assignor to Ball Rolled Tube Corporation, Glen Ridge, N. J. Method and apparatus for drawing metal. No. 1,360,088; Nov. 23; v. 280; p. 716.
Brinks, Hove T., Indiana, Pa. Automobile-horn. No. 1,333,703; Mar. 16; v. 272; p. 402.
Brinnon, Burleigh B. (See Harbour, T. P., and Brinnon.)
Brinton, Geo. H., *et al.*, executors. (See Brinton, William F.)
Brinton, H., Company. (See Ames, Elmer U., assignor.)
Brinton, H., Company. (See Larkin, Walter, assignor.)
Brinton, Ina, *et al.*, executors. (See Brinton, William F.)
Brinton, Willard C., New York, and W. J. Dudley, Brooklyn, N. Y.; said Dudley assignor to said Brinton. Brake. No. 1,360,089; Nov. 23; v. 280; p. 716.
Brinton, William C., Jr., assignor to Philips-Brinton Company, Kennett Square, Pa. Electrical condenser. No. 1,337,505; Apr. 20; v. 273; p. 476.
Brinton, William F., deceased, Washington, Iowa; I. Brinton, G. H. Brinton, and C. M. Keck, executors. Rewinding means for motion-pictures. No. 1,335,817; Apr. 6; v. 273; p. 21.
Brisben, Ernest J., Cleveland, Ohio. Pipe-holding vise No. 1,340,147; May 18; v. 274; p. 414.
Brisendine, Guy F., Decatur, Ill. Check and deposit-slip cabinet. No. 1,339,255; May 4; v. 274; p. 112.
Brison, Theodore H., Sioux Falls, S. D. Reversible rain-water cut-off. No. 1,349,808; Aug. 17; v. 277; p. 452.
Bristol, Edgar H., assignor to The Foxboro Company, Foxboro, Mass. Mounting for instruments. No. 1,338,766; May 4; v. 274; p. 22.
Bristol, Edgar H., assignor to The Foxboro Company, Foxboro, Mass. Measuring instrument. No. 1,340,148; May 18; v. 274; p. 415.
Bristow, Charles, Christchurch, New Zealand. Drill, broadcaster, and other sowing implement. No. 1,330,838; Feb. 17; v. 271; p. 378.
Bristow, Charles, Fendalton, Christchurch, New Zealand. Implement for sowing grain, seed, manure, and the like. No. 1,331,235; Feb. 17; v. 271; p. 453.
Britcher, John C., assignor to S. Morgan Smith Company, York, Pa. Wicket-gate for water-wheels. No. 1,357,440; Nov. 2; v. 280; p. 45.
British Aluminium Company Limited, The. (See Bailey, G. H., and Foster, assignors.)
British Automobile Equipment Company. (See Cooke, George F., assignor.)
British Ever Ready Company, The. (See Dewick and Caddy, assignors.)
British Oxygen Company, Limited. (See Bray, S. W., and Balfour, assignors.)
British Westinghouse and Electric Company, The. (See Baumann, K., Guy, and Winning, assignors.)
British Westinghouse Electric and Manufacturing Company, The. (See Baumann, Karl, assignor.)
British Westinghouse Electric and Manufacturing Company, The. (See Guy, Henry L., assignor.)
British Westinghouse Electric and Manufacturing Company. (See Scanes, Arthur E. L., assignor.)
Britt, Charles, Algona, Iowa. Gas-engine. No. 1,329,364; Feb. 3; v. 271; p. 5.
Britt, Charles J., Willington, S. C. Traction-engine. No. 1,330,733; Feb. 10; v. 271; p. 291.
Britt, Charles J., Willington, S. C. Tractor. No. 1,341,537; May 25; v. 274; p. 750.
Britt, William J. (See Ramstetter, F., and Britt.)
Brittain, Robert O., Boston, Mass. Dental educational device. No. 1,342,156; June 1; v. 275; p. 107.
Brittain, William F., Troup, assignor of one-half to J. E. Blevius, Houston, Tex. Combination lock and jack. No. 1,334,482; Mar. 23; v. 272; p. 594.
Britten, William G., Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,356,256; Oct. 19; v. 279; p. 449.
Britton, Coozie, Moline, Ill. Educational playing-cards. No. 1,327,019; Jan. 6; v. 270; p. 27.
Britton, Franklin W., Spokane, Wash. Rotary router and boring mechanism. No. 1,329,501; Feb. 3; v. 271; p. 30.
Britts, Bancroft B. (See Britts, Peter W. and B. B.)
Britts, Peter W., Newport News, Va. Thread-cutting tool. No. 1,362,840; Dec. 21; v. 281; p. 467.
Britts, Peter W. and B. B., Portland, Oreg. Punch. No. 1,338,969; May 4; v. 274; p. 58.
Britz, John S., Port Huron, Mich. Stamp-canceler and fountain-brush. No. 1,328,031; Jan. 13; v. 270; p. 276.
Brix, Harold M., assignor to Sharp & Smith, Chicago, Ill. Veterinary float. No. 1,347,933; July 27; v. 276; p. 692.
Brizon, Jean, Paris, France. Process and apparatus for starting internal-combustion engines. No. 1,363,637; Dec. 28; v. 281; p. 661.
Broadgate, William C., assignor to F. W. Harmon, New Haven, Conn. Making lanolin. No. 1,354,376; Sept. 28; v. 278; p. 665.
Broadhead, James E. (See Bradford, G. M., and Broadhead.)
Broadmeyer, Albert, assignor to W. O. Hickok Manufacturing Company, Harrisburg, Pa. Ruling apparatus. No. 1,344,166; June 22; v. 275; p. 682.
Broadmeyer, Albert, assignor to W. O. Hickok Manufacturing Company, Harrisburg, Pa. Gage or gate mechanism. No. 1,344,167; June 22; v. 275; p. 682.
Broadwell, Bartley E. (See Smith, A. G., and Broadwell.)
Broadwell, Bartley E., Niagara Falls, N. Y. Furnace construction. No. 1,351,281; Aug. 31; v. 277; p. 847.
Broadwell, Bartley E., Badin, N. C., assignor to Aluminum Company of America, Pittsburgh, Pa. Ring-furnace. No. 1,330,164; Feb. 10; v. 271; p. 185.
Broadwell, Harry M., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Inclosed-switch construction. No. 1,353,021; Sept. 14; v. 278; p. 291.
Broberg, Isidor. (See Tjungström, F., and Broberg.)
Brobst, George R., Allentown, Pa. Manufacture of phosphate. No. 1,360,248; Nov. 23; v. 280; p. 748.
Broc, Victor H., Neuilly-sur-Seine, France. Electrical connector. No. 1,352,499; Sept. 14; v. 278; p. 187.
Brock, Addison W., assignor to H. Gamse & Bro., Baltimore, Md. Bronzing-machine. No. 1,354,018; Sept. 28; v. 278; p. 591.
Brock, Arthur, Jr., L. J. R. Holst, and A. J. Mottlau, Philadelphia, Pa., assignors to said Brock. Method of and apparatus for photographic cartography. No. 1,331,978; Feb. 24; v. 271; p. 614.
Brock, Edward J. (See Treichel, A. R., and Brock.)
Brock, Frank P. (See Redman, L. V., Weith, and Brock.)
Brock, George L., West Point, Miss. Gear-shift. No. 1,354,948; Oct. 5; v. 279; p. 100.
Brock, John O., Wilmington, N. C. Auxiliary valve for internal-combustion engines. No. 1,344,614; June 29; v. 275; p. 836.
Brock, Matthias, Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Staple-lasting machine. No. 1,327,196; Jan. 6; v. 270; p. 59.
Brock, Matthias, Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Working uppers over lasts. No. 1,328,314; Jan. 20; v. 270; p. 367.

Digitized by Google

Brock, Matthias, Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Holddown for lasting-machines. No. 1,331,616; Feb. 24; v. 271; p. 546.

Brock, Matthias, Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Lasting-machine. No. 1,341,782; June 1; v. 275; p. 24.

Brock, Matthias, Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Upper-shaping machine. No. 1,361,960; Dec. 14; v. 281; p. 243.

Brock, Matthias, Boston, and T. H. Seely, Malden, Mass., assignors, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on shoes. No. 1,363,305; Dec. 28; v. 281; p. 598.

Brock, Maynor D., Kansas City, Mo. Adjustable toy vehicle. No. 1,352,577; Sept. 14; v. 278; p. 202.

Brock, Richard E., and S. Boyce, Canton, Ohio. Heat-treating furnace. No. 1,336,814; Apr. 13; v. 273; p. 270.

Brockenbrough, Hugh B. (See Armstrong, L. E., and Brockenbrough.)

Brockett, Bluford W., Cleveland, Ohio. Cooling-system control. No. 1,328,815; Jan. 27; v. 270; p. 489.

Brockett, Bluford W., and A. L. Lord, assignors, by mesne assignments, to The First Trust & Savings Company, trustee, Cleveland, Ohio. Ironing-machine. No. 1,329,502; Feb. 3; v. 271; p. 30.

Brockett, Charles W., White Plains, assignor to W. R. Ostrander & Company, New York, N. Y. Electric switch. No. 1,358,282; Nov. 9; v. 280; p. 269.

Brockhaus, Herman A., Woodward, Okla. Building material. No. 1,348,082; July 27; v. 276; p. 723.

Brockschmidt, Hedwig L., Monett, Mo. Fruit-picker. No. 1,362,471; Dec. 14; v. 281; p. 443.

Brockton Heel Company. (See Hansalpakar, Edwin, assignor.)

Brockway, Carl P., assignor to Industrial Research Corporation, Toledo, Ohio. Motor-drive. No. 1,352,112; Sept. 7; v. 278; p. 77.

Brockway, Carl P., assignor to Industrial Research Corporation, Toledo, Ohio. Vacuum-sweeper. No. 1,361,563; Dec. 7; v. 281; p. 118.

Brockway, Scott A., Laurel, Nebr. Convertible toy. No. 1,348,262; Aug. 3; v. 277; p. 26.

Broderson, Henry J., and S. W. Parr, Urbana, Ill. Treating broom-corn. No. 1,337,306; Apr. 20; v. 273; p. 439.

Brodhage, William H., St. Louis, Mo. Car-door. No. 1,356,257; Oct. 19; v. 279; p. 449.

Brodin, Evald E., *et al.* (See Brodin, John A., assignor.)

Brodin, John A., assignor of one-third to E. E. Brodin and one-third to N. V. Christensen, Chicago, Ill. Radiator-cover. No. 1,344,376; June 22; v. 275; p. 723.

Brodrene Sundt, Vaerktöimaskinfabrik A/S. (See Sundt, Andreas, assignor.)

Brodsky, Gregory, London, England. Polarizing-prism. No. 1,358,413; Nov. 9; v. 280; p. 297.

Brodtkorb, Birger, Notodden, assignor to Norsk Hydro-elektrisk Kvaelstofaktieselskab, Christiania, Norway. Production of ammonia from cyanamid. No. 1,332,100; Feb. 24; v. 271; p. 637.

Brody, David. (See Perez, Frank M., assignor.)

Broegger, Ivar W., assignor to Splitdorf Electrical Company, Newark, N. J. Circuit-controlling mechanism. No. 1,336,418; Apr. 13; v. 273; p. 195.

Broegger, Ivar W., assignor to Splitdorf Electrical Company, Newark, N. J. Electrical-measuring-instrument switch. No. 1,336,419; Apr. 13; v. 273. p. 195.

Broegger, Ivar W., assignor to Splitdorf Electrical Company, Newark, N. J. Circuit-breaker. No. 1,338,971; May 4; v. 274; p. 59.

Brogan, James A., Lawrence, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastening-inserting machine. No. 1,360,090; Nov. 23; v. 280; p. 716.

Brogan, Michael F., Lawrence, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Heel-clamping device. No. 1,327,020; Jan. 6; v. 270; p. 27.

Brogan, Michael F., Lawrence, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Last-pulling machine. No. 1,361,822; Dec. 14; v. 281; p. 215.

Brogden, Joseph T., Providence, R. I., assignor to Revere Rubber Company. Wind-up device for sheeted material. No. 1,327,420; Jan. 6; v. 270; p. 100.

Brogden, Joseph T., Providence, R. I., assignor to Revere Rubber Company. Bathing-hat. No. 1,350,776; Aug. 24; v. 277; p. 687.

Broido, Benjamin, assignor to Locomotive Superheater Company, New York, N. Y. Superheater-header. No. 1,328,364; Jan. 20; v. 270; p. 376.

Broido, Benjamin, assignor to Locomotive Superheater Company, New York, N. Y. Water-tube-boiler superheater. No. 1,328,365; Jan. 20; v. 270; p. 377.

Broido, Benjamin, assignor to Locomotive Superheater Company, New York, N. Y. Method and apparatus for making boiler-sections. No. 1,331,047; Feb. 17; v. 271; p. 420.

Broido, Benjamin, assignor to Locomotive Superheater Company, New York, N. Y. Superheater-header. No. 1,338,972; May 4; v. 274; p. 59.

Broido, Benjamin, assignor to Locomotive Superheater Company, New York, N. Y. Boiler with superheaters. No. 1,351,154; Aug. 31; v. 277; p. 821.

Broido, Benjamin, assignor to Locomotive Superheater Company, New York, N. Y. Apparatus for regulating the temperature of superheated steam. No. 1,351,465; Aug. 31; v. 277; p. 884.

Broido, Benjamin, assignor to Locomotive Superheater Company, New York, N. Y. Means for securing pipes to headers. No. 1,363,713; Dec. 28; v. 281; p. 676.

Broido, Benjamin, assignor to Locomotive Superheater Company, New York, N. Y. Boiler with superheater. No. 1,363,714; Dec. 28; v. 281; p. 676.

Brokaw-Eden Company. (See Settlage, Rudolph F., assignor.)

Brokish, Frank C., Dodgeville, Wis. Pump-thawing means. No. 1,327,803; Jan. 13; v. 270; p. 284.

Brolinson, Bengt G., New York, N. Y., assignor to The Universal Turbine Company, Newark, N. J. Steam-turbine. No. 1,359,227; Nov. 16; v. 280; p. 500.

Brombacher, Julius, Los Angeles, Calif. Gas-burner. No. 1,329,649; Feb. 3; v. 271; p. 57.

Brombacher, Julius, Los Angeles, Calif. Thermostat. No. 1,329,650; Feb. 3; v. 271; p. 57.

Bromfield, Henry A. M., Daylesford, Victoria, Australia. Weed and clod cutter. No. 1,353,626; Sept. 21; v. 278; p. 470.

Bromley, Henry W., Wilmore, Ky. Book-rest. No. 1,360,718; Nov. 30; v. 280; p. 908.

Bronaugh, J. W., *et al.* (See Carroll, Andrew L., assignor.)

Bronder, Gaston A., Brooklyn, assignor of one-half to T. Costigan, New York, N. Y. Vapor-extractor. No. 1,361,005; Dec. 7; v. 281; p. 5.

Bronner, Charles F., Syracuse, N. Y. Clothes-wringer. No. 1,336,883; Apr. 13; v. 273; p. 284.

Bronnum, Marinus, South Pasadena, Calif. Bermuda-grass cutter. No. 1,349,809; Aug. 17; v. 277; p. 452.

Brons, Derk, Zuidbroek, Netherlands, assignor to N. V. Machinefabriek Brons, Zuidbroek, Groningen, Netherlands. Apparatus for drying vegetables and the like. No. 1,326,909; Jan. 6; v. 270; p. 5.

Bronstein, Jesse B., and C. E. Waller, Allentown, Pa., assignors to Trojan Powder Company, New York, N. Y. Ammonium-nitrate explosive. No. 1,343,077; June 8; v. 275; p. 341.

Brook, David H., Dayton, Ohio. Toy. No. 1,331,617; Feb. 24; v. 271; p. 546.

Brooke, John N., Halifax, England. Evaporator. No. 1,349,810; Aug. 17; v. 277; p. 452.

Brooke, Wilfrid. (See Miller, L., and Brooke.)

Brooke, Wilfrid, Altrincham, England, assignor to Westinghouse Electric and Manufacturing Company. Apparatus for the control of dynamo-electric machines. No. 1,363,688; Dec. 28; v. 281; p. 661.

Brookes, Edward E., assignor to W. J. Gage & Company Limited, Toronto, Ontario, Canada. Window-envelop machine. No. 1,338,119; Apr. 27; v. 273; p. 662.

Brookfield, Douglas. (See Gaunt, J., and Brookfield.)

Brookfield, Douglas Holloway, London, England. Smelting-furnace. No. 1,346,527; July 13; v. 276; p. 298.

Brookins, Andrew J., Chicago, Ill. Governor to control electric terminals. No. 1,328,490; Jan. 20; v. 270; p. 401.

Brookins, Andrew J., Chicago, Ill. Automatic train-control apparatus. No. 1,339,018; May 11; v. 274; p. 313.

Brooks, Benjamin T. (See Bacon, R. F., Brooks, and Clark.)

Brooks, Benjamin T., Bayside, N. Y., assignor to The Commercial Research Company. Purifying resins. No. 1,340,873; May 25; v. 274; p. 622.

Brooks, David C., Van, W. Va. Wrapping-paper holder and cutter. No. 1,337,588; Apr. 20; v. 273; p. 491.

Brooks, Elbert J., Sparta, Wis. Chain attachment. (Reissue.) No. 14,851; May 4; v. 274; p. 135.

Brooks, Florence. (See Brooks, John A., assignor.)

Brooks, Herbert, assignor to Petters Limited, Yeovil, England. Means for controlling the supply of liquid fuel to internal-combustion engines. No. 1,348,845; Aug. 10; v. 277; p. 190.

Brooks, Herbert, assignor to Petters Limited, Yeovil, England. Means for controlling the supply of liquid fuel to internal-combustion engines. No. 1,361,488; Dec. 7; v. 281; p. 93.

Brooks, Herbert R., Washington, D. C. Electric transformer. No. 1,357,197; Oct. 26; v. 279; p. 678.

Brooks, J. B., and Company. (See Jenkins, Alexander H., assignor.)

Brooks, James, Mount Vernon, assignor to Matthew Hawe, Pelham Manor, N. Y. Spark-plug. No. 1,340,116; May 11; v. 274; p. 351.

Brooks, James G., Rushville, Nebr. Hinge or hanger. No. 1,352,782; Sept. 14; v. 278; p. 244.

Brooks, James M., Washington, D. C. Electrical comb. No. 1,327,804; Jan. 13; v. 270; p. 234.

Brooks, John A., Toledo, Ohio, assignor to F. Brooks, Detroit, Mich. Water-distributing means. No. 1,357,840; Nov. 2; v. 280; p. 122.

Digitized by Google

Alphabetical list of patentees—Continued.

Brooks, John B. (See Porter, G. M., and Yardusky, assignors.)
Brooks, John F., and L. E. Gimm, Fort Wayne, Ind. Tool for shaping or forming cement curbs and gutters. No. 1,334,483; Mar. 23; v. 272; p. 594.
Brooks, John S., and J. M. Collins, Cambridge, Md. Handy sewing service. No. 1,331,236; Feb. 17; v. 271; p. 454.
Brooks, Lester L., Falls City, Oreg. Throttle-switch. No. 1,333,603; Mar. 16; v. 272; p. 383.
Brooks, Preston S., Jr., Sewanee, Tenn. Casing-hook. No. 1,363,639; Dec. 28; v. 281; p. 661.
Brooks, Robert O. (See Hughes, William E., assignor.)
Brooks, Roscoe A., assignor to Western Tire & Rubber Works, Chicago, Ill. Tire-retreading apparatus. No. 1,327,807; Jan. 6; v. 270; p. 80.
Brooks, Roscoe A., assignor to Western Tire & Rubber Works, Chicago, Ill. Tire-retreading apparatus. (Reissue.) No. 14,852; May 4; v. 274; p. 135.
Brooks, Samuel A., Elmwood Place, assignor of one-half to J. M. Shay, Cincinnati, and one-half to A. W. Miller, Elmwood Place, Ohio. Lid for saucepans and the like. No. 1,328,558; Jan. 20; v. 270; p. 418.
Brooks, Thomas A., Newton, Kans. Gas-screen. No. 1,350,700; Aug. 24; v. 277; p. 672.
Brooks, Thomas W., Cleveland, Ohio. Piston packing-ring. No. 1,357,949; Nov. 9; v. 280; p. 204.
Brooks, Walter C., Springfield, Mass. Tool-holder. No. 1,330,514; Feb. 10; v. 271; p. 250.
Brooks, Winfred M., West Orange, N. J. Fastener. No. 1,348,473; Aug. 3; v. 277; p. 67.
Brooks, Winfred M., West Orange, N. J. Shackle-seal. No. 1,354,164; Sept. 28; v. 278; p. 621.
Brooks, Winfred M., West Orange, N. J. Sealing means. No. 1,354,165; Sept. 28; v. 278; p. 622.
Broom, Joseph F. (See Lyle, J. L., and Broom.)
Broome, William J., Los Angeles, Calif. Automobile-creeper. No. 1,349,941; Aug. 17; v. 277; p. 477.
Broomhead, Henry H., Bloomington, Idaho. Lock for automobile steering-gear. No. 1,349,490; Aug. 10; v. 277; p. 317.
Brophy, John P., Cleveland Heights, Ohio. Automatic machine. No. 1,343,344; June 15; v. 275; p. 455.
Bropson, James, Cleveland, Ohio. Repair-plug. No. 1,350,489; Aug. 24; v. 277; p. 631.
Brosch, Charles D., Duquoin, Ill. Guard for pick-handles. No. 1,342,495; June 8; v. 275; p. 225.
Broshears, Gurley, Newburg, Ind. Adjustable line-supporting post. No. 1,350,208; Aug. 17; v. 277; p. 530.
Brosius, Edgar E., Pittsburgh, Pa. Apparatus for charging and discharging crucible-furnaces. No. 1,363,834; Dec. 28; v. 281; p. 700.
Brosnan, John J., Worcester, Mass. Non-sinkable boat. No. 1,355,937; Oct. 19; v. 279; p. 385.
Bross, Ernest E., assignor to The Traub Manufacturing Company, Detroit, Mich. Forming finger-rings. No. 1,360,719; Nov. 30; v. 280; p. 908.
Brossman, Charles A. (See Deem, Arthur S., assignor.)
Brostrom, Carl F., Minneapolis, Minn. Air-temperature regulator for gas-engines. No. 1,344,615; June 29; v. 275; p. 836.
Brothers, Eli, Lynn, and J. T. Lancaster, Beverly, Mass., assignors, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Upper-pulling machine. No. 1,333,536; Mar. 9; v. 272; p. 309.
Brothers, Horace C., assignor, by mesne assignments, to F. R. Batchelder, Worcester, Mass. Woven carrier. No. 1,344,377; June 22; v. 275; p. 724.
Broughton, Douglas J., Springfield, Mass. Finger-actuated signal-light. No. 1,335,272; Mar. 30; v. 272; p. 833.
Broun, Virginia M., Washington, D. C. Adjustable inclined bed. No. 1,348,779; Aug. 3; v. 277; p. 125.
Brouwers, Ysbrand, Wageningen, Netherlands. Coaling device. No. 1,340,819; May 18; v. 274; p. 540.
Brower, Harry E. (See Crim, J. E., and Brower.)
Brower, Richard W., Proctor, Minn. Lock for air-hose couplings. No. 1,354,643; Oct. 5; v. 279; p. 39.
Brown, Albert, New York, N. Y., assignor of one-third to M. J. Grauer and J. Lipshutz, New York, N. Y. Collar-bar. No. 1,351,613; Aug. 31; v. 277; p. 913.
Brown, Albert S. (See Still, Peter H., assignor.)
Brown, Alexander T., Syracuse, N. Y. Force-pump. No. 1,359,472; Nov. 16; v. 280; p. 549.
Brown, Alexander T., assignor to The Brown-Lipe Gear Company, Syracuse, N. Y. Gear-grinding machine. No. 1,329,884; Feb. 3; v. 271; p. 101.
Brown, Alexander T., assignor to The Brown-Lipe Gear Company, Syracuse, N. Y. Gear-grinding machine. No. 1,352,872; Sept. 14; v. 278; p. 262.
Brown, Alfred C. (See Wolter, B., and Brown.)
Brown, Andrew V., Philadelphia, Pa. Eyeglasses. No. 1,329,885; Feb. 3; v. 271; p. 101.
Brown, Archie E., El Paso, Tex. Tire. No. 1,362,774; Dec. 21; v. 281; p. 454.
Brown, Arthur C. (See Saunders, Daniel G., Jr., assignor.)
Brown, Arthur J., assignor to G & J Tire Company, Union, N. J. Vulcanizing apparatus. No. 1,358,820; Nov. 16; v. 280; p. 423.
Brown, Athol D., Glen Avon, Somerset East, South Africa. Circuit-controller. No. 1,361,006; Dec. 7; v. 280; p. 5.
Brown Bag Filling Machine Company. (See Brown, Benjamin F., assignor.)
Brown Barotype Company. (See Brown, Herbert E., assignor.)
Brown, Benjamin, Braham, Minn. Pressure-relief valve. No. 1,334,985; Mar. 30; v. 272; p. 750.
Brown, Benjamin F., assignor to Brown Bag Filling Machine Co., Fitchburg, Mass. Conveyer for bags. No. 1,350,777; Aug. 24; v. 277; p. 687.
Brown, Benjamin R., Kinsley, Kans. Soil-working implement. No. 1,328,121; Jan. 13; v. 270; p. 294.
Brown & Bigelow. (See Harris, Blaine H., assignor.)
Brown & Bigelow. (See Kristofek, F. J., and Fischer, assignors.)
Brown & Bigelow. (See Kristofek, Frank J., assignor.)
Brown & Bigelow. (See Welcker, Paul H., assignor.)
Brown, Boggs & Co. Limited, The. (See Brown, John M., assignor.)
Brown, Carl D., assignor to Draper Corporation, Hopedale, Mass. Filling-replenishing loom. No. 1,350,640; Aug. 24; v. 277; p. 660.
Brown, Carl D., assignor to Draper Corporation, Hopedale, Mass. Warp stop mechanism for looms. No. 1,362,670; Dec. 21; v. 281; p. 434.
Brown, Carl E., Columbus, Ohio. Oil-burner. No. 1,344,978; June 29; v. 275; p. 905.
Brown, Carl E., Columbus, Ohio. Oil-burner. No. 1,347,007; July 20; v. 276; p. 452.
Brown, Carl S., Portland, Oreg. Electric elevator-controlling system. No. 1,327,421; Jan. 6; v. 270; p. 100.
Brown, Carl S., and R. R. Shaffer, Ashland, Ohio. Light-deflector. No. 1,348,927; Aug. 10; v. 277; p. 206.
Brown, Charles A., *et al.* (See Wood, Albert B., assignor.)
Brown, Charles A., Louisville, Ky. Attachment for pulleys. No. 1,359,321; Nov. 16; v. 280; p. 519.
Brown, Charlie E., Findlay, Ohio. Grain-saving tailboard. No. 1,355,383; Oct. 12; v. 279; p. 237.
Brown, Charles F. (See Hulen, H., and Brown.)
Brown, Charles F., South Ridge, Kans. Vermin-exterminator for poultry-coops. No. 1,332,423; Mar. 2; v. 272; p. 48.
Brown, Charles F., South Ridge, Kans. Apparatus for intensive feeding of poultry. No. 1,335,155; Mar. 30; v. 272; p. 782.
Brown, Charles F., South Ridge, Kans. Animal-feeder. No. 1,346,936; July 20; v. 276; p. 438.
Brown, Charles F., Greeneville, Tenn. Machine for sharpening lawn-mower blades. No. 1,344,168; June 22; v. 275; p. 682.
Brown, Charles J., River Falls, Wis. Antislipping attachment for ladders. No. 1,331,954; Feb. 24; v. 271; p. 609.
Brown, Charles J., assignor to Brown Safety Ladder Company, River Falls, Wis. Stepladder with automatic spreading and bracing means. No. 1,331,953; Feb. 24; v. 271; p. 609.
Brown, Charles L., Robinson, Kans. Box-former. No. 1,331,315; Feb. 17; v. 271; p. 468.
Brown, Charles T. (See Hand, Edgar K., assignor.)
Brown, Charles W., Boston, Mass. Side-splash guard. No. 1,341,008; May 25; v. 274; p. 648.
Brown, Charles W., Boston, Mass. Side-splash mudguard. No. 1,362,841; Dec. 21; v. 281; p. 467.
Brown, Clarence E., Clarksburg, W. Va. Automatic controlling device for electric circuits. No. 1,331,816; Feb. 17; v. 271; p. 468.
Brown, Clarence M., Minden, La. Air-hose coupling. No. 1,340,820; May 18; v. 274; p. 540.
Brown, Clarence M., Philadelphia, Pa., assignor to Pittsburgh Plate Glass Company. Cleaning-brush. No. 1,349,261; Aug. 10; v. 277; p. 273.
Brown, Clarence M., Philadelphia, Pa., assignor to Pittsburgh Plate Glass Company. Brush for cleaning glass-making pots. No. 1,349,262; Aug. 10; v. 277; p. 273.
Brown, Clement, Birmingham, England. Apparatus for measuring the flow of liquids. No. 1,347,143; July 20; v. 276; p. 479.
Brown, Clifford C., and R. H. Renfroe, Cartersville, Ga. Gripping device for steering mechanism. No. 1,330,578; Feb. 10; v. 271; p. 262.
Brown, Colin, assignor to The E. C. Brown Company, Rochester, N. Y. Spraying implement. No. 1,359,485; Nov. 23; v. 280; p. 596.
Brown Company. (See Fagan, Spear, and Wolf, assignors.)
Brown, David I., Cincinnati, Ohio. Swing. No. 1,363,453; Dec. 28; v. 281; p. 625.
Brown, Davis, Bucyrus, Ohio, assignor to The American Equipment Company. Machine for automatically nosing in shells. No. 1,332,798; Mar. 2; v. 272; p. 119.
Brown, Davis, Bucyrus, Ohio, assignor to The American Clay Machinery Company. Casting iron screen-plates for steel grids. No. 1,330,096; May 4; v. 274; p. 84.
Brown, Davis, Bucyrus, Ohio, assignor to R. C. Penfield, Chicago, Ill. Process of and apparatus for molding clay products. No. 1,347,484; July 20; v. 276; p. 546.
Brown, Douglas R., Coffeyville, Kans. Oil-pump-operating mechanism. No. 1,339,097; May 4; v. 274; p. 84.
Brown, E. C., Company, The. (See Brown, Colin, assignor.)
Brown, Edgar P., Madera, Calif. Grading-machine. No. 1,347,008; July 20; v. 276; p. 453.
Brown, Edmund N., San Francisco, Calif. Electric heater. No. 1,336,021; Apr. 6; v. 273; p. 60.

Digitized by Google

Brown, Edward E., Streatham, London, England. Metal spar or girder for aircraft. No. 1,331,412; Feb. 17; v. 271; p. 486.

Brown, Edward E., Streatham, London, England. Girder and the like for aircraft. No. 1,351,614; Aug. 31; v. 277; p. 913.

Brown, Edward E., and D. J. Mooney, London, England. Metal construction. No. 1,351,615; Aug. 31; v. 277; p. 914.

Brown, Edward E., and D. J. Mooney, London, England. Metal construction. No. 1,360,720; Nov. 30; v. 280; p. 908.

Brown, Edward R., Boston, Mass. Apparatus for cooling and dispensing beverages. No. 1,345,746; July 6; v. 276; p. 82.

Brown, Edwin J., Boone, Md. Poultry-feed hopper. No. 1,335,424; Mar. 30; v. 272; p. 831.

Brown, Egbert B., Los Angeles, Calif. Tire. No. 1,330,756; Feb. 10; v. 271; p. 295.

Brown, Egbert B., assignor to O. W. Fort and H. R. Taylor, Los Angeles, Calif. Vehicle-tire. No. 1,347,679; July 27; v. 276; p. 642.

Brown, Ellis E., Reading, Pa. Flexible coupling. No. 1,328,366; Jan. 20; v. 270; p. 377.

Brown, Ellis E., Reading, Pa. Folding net-frame. No. 1,340,874; May 25; v. 274; p. 622.

Brown, Elwood V., Philadelphia, Pa. Filing-cabinet. No. 1,341,412; May 25; v. 274; p. 726.

Brown Engineering Company. (See Brown, William E., assignor.)

Brown, Eric, Baden, Switzerland. Thrust-bearing. No. 1,354,949; Oct. 5; v. 279; p. 100.

Brown, Eric, assignor to Aktiengesellschaft Brown Boveri & Cie, Baden, Switzerland. Toothed-wheel gearing. No. 1,358,615; Nov 9; v. 280; p. 337.

Brown, Ernest E., Decatur, Ill. Burglar-alarm. No. 1,328,559; Jan. 20; v. 270; p. 413.

Brown, Ernest L., assignor to Bastian Bros. Company, Rochester, N. Y. Toy umbrella. No. 1,345,067; June 29; v. 275; p. 922.

Brown, Fay C., Berkeley, Calif. Optiphone. No. 1,352,940; Sept. 14; v. 278; p. 274.

Brown-Ferrier Company. (See Schubert, Frank H., assignor.)

Brown, Francis H., Philadelphia, assignor to J. M. Hopwood, Pittsburgh, Pa. Controlling combustion in a plurality of generators. No. 1,338,897; May 4; v. 274; p. 46.

Brown, Francis H., Philadelphia, assignor to J. M. Hopwood, Pittsburgh, Pa. Regulating combustion in furnaces. No. 1,338,898; May 4; v. 274; p. 46.

Brown, Francis H., Philadelphia, assignor to J. M. Hopwood, Pittsburgh, Pa. Regulating combustion in furnaces. No. 1,338,900; May 4; v. 274; p. 46.

Brown, Francis H., Philadelphia, assignor to J. M. Hopwood, Pittsburgh, Pa. Regulating combustion in furnaces. No. 1,338,901; May 4; v. 274; p. 46.

Brown, Francis H., Philadelphia, assignor to J. M. Hopwood, Pittsburgh, Pa. Controlling combustion in a plurality of furnaces. No. 1,338,902; May 4; v. 274; p. 46.

Brown, Francis H., Philadelphia, assignor to J. M. Hopwood, Pittsburgh, Pa. Controlling combustion in a plurality of generators. No. 1,339,055; May 4; v. 274; p. 76.

Brown, Francis H., Philadelphia, and J. M. Hopwood, Pittsburgh, Pa.; said Brown assignor to said Hopwood. Combustion-regulating method and mechanism. No. 1,338,899; May 4; v. 274; p. 46.

Brown, Fred, Hamilton, Ill. Trace-hook. No. 1,338,610; Apr. 27; v. 273; p. 753.

Brown, Frederic H., Lebanon, N. H. Dental flask. No. 1,347,205; July 20; v. 276; p. 490.

Brown, George C. (See Beine, Charles H., assignor.)

Brown, George H. (See Prettyman, D. M., and Brown.)

Brown, George H., Warwick, R. I. Gripper. No. 1,334,015; Mar. 16; v. 272; p. 461.

Brown, Gouverneur G., New York, and P. A. Schuchart, Rockville Center, N. Y., assignors to Paper Service Company. Sheet-interfolding machine. No. 1,348,846; Aug. 10; v. 277; p. 190.

Brown, Gustave C., Bridgeport, Conn. Match-safe. No. 1,327,458; Jan. 6; v. 270; p. 107.

Brown, H. H. (See Lucas, William H., assignor.)

Brown, Harold, Dacoma, Okla. Tire-alarm. No. 1,341,613; May 25; v. 274; p. 765.

Brown, Harold, assignor to Reynolds Engineering Company, Moline, Ill. Machine for cutting strips of cloth. No. 1,342,621; June 8; v. 275; p. 249.

Brown, Harold P., New York, N. Y. Hollow concrete wall. No. 1,329,699; Feb. 3; v. 271; p. 66.

Brown, Harold W., Ithaca, N. Y., assignor to Westinghouse Electric and Manufacturing Company. Electrical relay. No. 1,341,629; June 1; v. 275; p. 3.

Brown, Harry E., Wichita, Kans. Underreamer. No. 1,336,884; Apr. 13; v. 273; p. 284.

Brown, Harry M., assignor to Spring Stopper Company, Brooklyn, N. Y. Machine for making carboys or large glass containers. No. 1,334,647; Mar. 23; v. 272; p. 624.

Brown, Harry M., assignor to Spring Stopper Company, Brooklyn, N. Y. Machine and method for making carboys or large glass containers. No. 1,334,648; Mar. 23; v. 272; p. 625.

Brown, Harry M., assignor to Spring Stopper Company, Brooklyn, N. Y. Glass-severing implement. No. 1,346,528; July 13; v. 276; p. 298.

Brown, Harvey E., St. Louis, Mo. Making wire fabric. No. 1,359,667; Nov. 23; v. 280; p. 632.

Brown, Harvey E., St. Louis, Mo., assignor to Simmons Company, Kenosha, Wis. Fabric-making machine. No. 1,336,343; Apr. 6; v. 273; p. 120.

Brown, Hector H., Baltimore, Md., assignor to Riggs, Distler & Stringer, Incorporated. Cut-out box. No. 1,355,886; Oct. 19; v. 279; p. 375.

Brown, Hector H., Baltimore, Md., assignor to Riggs, Distler & Stringer, Incorporated. Panel-box. No. 1,355,887; Oct. 19; v. 279; p. 376.

Brown, Henry C., Philadelphia, Pa. Filing-cabinet for talking-machine records. No. 1,330,301; Feb. 10; v. 271; p. 209.

Brown, Henry C., Merion, and E. John, Ardmore, Pa., assignors to Victor Talking Machine Company. Container for talking-machine stylI. No. 1,350,294; Aug. 24; v. 277; p. 592.

Brown, Henry J., New York, N. Y. Camera attachment. No. 1,327,138; Jan. 6; v. 270; p. 48.

Brown, Herbert C., *et al.* (See Capell, Carl F., assignor.)

Brown, Herbert E., Sterling, Ill., assignor, by mesne assignments, to Brown Barotype Company, Chicago, Ill. Barotype-machine. No. 1,345,660; July 6; v. 276; p. 65.

Brown, Herbert V., Cherry Tree borough, Pa. Mine-haul. No. 1,352,653; Sept. 14; v. 278; p. 218.

Brown, Herbert W., Ashland, Ohio. Signal and spot light for automobiles. No. 1,335,364; Mar. 30; v. 272; p. 821.

Brown, Herbert W., Ashland, Ohio. Headlight replacement. No. 1,357,761; Nov. 2; v. 280; p. 107.

Brown, Herman, Chicago, Ill. Pocket for garments. No. 1,344,075; June 22, v. 275; p. 665.

Brown, Herman M. (See Mannon, Brown, and Perkins.)

Brown Hoisting Machinery Company, The. (See Taylor, Ernest W., assignor.)

Brown, Horace P. (See Johnston, Clarance L., assignor.)

Brown, Horace P., and C. L. Johnston, Oakland, Calif. Paper folding and interleaving machine. No. 1,327,588; Jan. 6; v. 270; p. 132.

Brown, Howard, Springfield, Mass. Apparatus for watermarking paper. No. 1,362,598; Dec. 21; v. 281; p. 419.

Brown, Hugh C., Camden, N. J. Valve and grinding mechanism therefor. No. 1,361,790; Dec. 7; v. 281; p. 162.

Brown Instrument Company, The. (See Brown, R. P., and Frey, assignors.)

Brown, J. Grove, Kingston, N. Y. Car-unloader. No. 1,345,121; June 29; v. 275; p. 932.

Brown, James A. (See Rathman, Gilbert, assignor.)

Brown, James B., Denver Colo. Ore-flotation apparatus. No. 1,351,155; Aug. 31; v. 277; p. 821.

Brown, James D., Glasgow, Scotland. Display-rack. No. 1,345,831; July 6; v. 276; p. 98.

Brown, James H. (See Forster and Brown.)

Brown, James L., Louisville, Ky. Bottle-turning machine. No. 1,355,032; Oct. 5; v. 279; p. 116.

Brown, James M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Switch. No. 1,332,025; Feb. 24; v. 271; p. 623.

Brown, James M., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical system. No. 1,343,345; June 15; v. 275; p. 456.

Brown, James R., Halls, Tenn. Demountable rim. No. 1,357,144; Oct. 26; v. 279; p. 669.

Brown, James W., assignor to Cadillac Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,330,934; Feb. 17; v. 271; p. 398.

Brown, John C., Niagara Falls, Ontario, Canada. Manually-propelled toy car. No. 1,339,433; May 11; v. 274; p. 221.

Brown, John D. (See O'Neill, Arthur M., assignor.)

Brown, John D., Las Animas, Colo. Harrow. No. 1,341,538; May 25; v. 274; p. 750.

Brown, John D., Las Animas, Colo. Harrow. No. 1,341,539; May 25; v. 274; p. 751.

Brown, John H., Laramie, Wyo. Double mower and twin-plow tractor. No. 1,332,799; Mar. 2; v. 272; p. 119.

Brown, John M., assignor to The Brown, Boggs Co. Limited, Hamilton, Ontario, Canada. Crimped-elbow-bending machine. No. 1,340,320; May 18; v. 274; p. 446.

Brown, John R., assignor to The Ohio Brass Company, Mansfield, Ohio. Curve pull-off hanger. No. 1,336,504; Apr. 13; v. 273; p. 210.

Brown, John R., assignor to The Ohio Brass Company, Mansfield, Ohio. Rail-bond. No. 1,336,940; Apr. 13; v. 273; p. 295.

Brown, John R., and G. H. Bolus, assignors to The Ohio Brass Company, Mansfield, Ohio. Catenary suspension system for electric railways. No. 1,336,503; Apr. 13; v. 273; p. 210.

Brown, John W., Manufacturing Company, The. (See Brown, John W., assignor.)

Digitized by Google

Alphabetical list of patentees—Continued.

Brown, John W., assignor to The John W. Brown Manufacturing Company, Columbus, Ohio. Lamp. No. 1,359,322; Nov. 16; v. 280; p. 519.

Brown, John W., assignor to The John W. Brown Manufacturing Company, Columbus, Ohio. Vehicle-lamp. No. 1,359,323; Nov. 16; v. 280; p. 519.

Brown, Joseph F., Wichita, Kans. Air or water pressure tank. No. 1,347,934; July 27; v. 276; p. 692.

Brown, Katherine M., *et al.* (See Capell, Carl F., assignor.)

Brown, Kenneth W., Yonkers, N. Y. Golf score-card. No. 1,353,889; Sept. 28; v. 278; p. 565.

Brown, Lanville A., Kansas City, Mo. Leg-mount bushing for bedsteads. No. 1,333,604; Mar. 16; v. 272; p. 383.

Brown, Lanville A., Kansas City, Mo. Hinged leg for folding beds. No. 1,363,715; Dec. 28; v. 281; p. 676.

Brown, Leonard L., assignor of one-eighth to Robert E. Robinson and one-eighth to George I. Grasty, Clifton Forge, Va. Creepless metallic tie. No. 1,351,466; Aug. 31; v. 277; p. 884.

Brown-Lipe-Chapin Co. (See Ormsby, Donald D., assignor.)

Brown-Lipe Gear Company, The. (See Brown, Alexander T., assignor.)

Brown, Lloyd, Los Angeles, Calif., assignor to L. Brown and A. Graydon, trustees. Motion-picture kinetograph and exposing films. No. 1,344,616; June 29; v. 275; p. 836.

Brown, Lloyd, Los Angeles, Calif., assignor to Silent Drama Syndicate. Magazine for motion-picture machines. (Reissue.) No. 15,002; Dec. 14; v. 281; p. 365.

Brown, Lloyd, Los Angeles, Calif., assignor to Silent Drama Syndicate. Camera-case. (Reissue.) No. 15,003; Dec. 14; v. 281; p. 365.

Brown, Louis H. (See O'Donnell, John, Jr., assignor.)

Brown, M. Lewis, assignor to Universal Metal Company, Detroit, Mich. Channel-tubing. No. 1,350,544; Aug. 24; v. 277; p. 642.

Brown-McLaren Manufacturing Co. (See Vis, George A., assignor.)

Brown, Margaret J., executrix. (See Brown, Perry.)

Brown, Max, Boston, Mass. Wire-reinforced wrapping. No. 1,358,283; Nov. 9; v. 280; p. 269.

Brown, Michael, New York, N. Y. Sadiron. No. 1,345,989; July 6; v. 276; p. 131.

Brown, Munro S., Goldfield, Nev. Self-lighting cigarette. No. 1,327,139; Jan. 6; v. 270; p. 49.

Brown, Newman T., Seattle, Wash. Motor-car signal. No. 1,347,246; July 20; v. 276; p. 499.

Brown, Nicholas E., assignor to U. S. Electrical Manufacturing Company, Los Angeles, Calif. Center cleaning and oiling device. No. 1,361,007; Dec. 7; v. 280; p. 5.

Brown, Norman, Muenster, Tex. Banjo. No. 1,352,654; Sept. 14; v. 278; p. 218.

Brown, Orlando W., Jr., Sanford, Me. Stepladder. No. 1,345,990; July 6; v. 276; p. 131.

Brown, Oscar, Lula, Ga. Highway-crossing signal. No. 1,348,696; Aug. 3; v. 277; p. 110.

Brown, Patrick B., Shenandoah, Pa. Power mine-shovel. No. 1,345,991; July 6; v. 276; p. 131.

Brown, Percy, and F. J. Bostock, Huddersfield, England. Worm-gearing. No. 1,349,811; Aug. 17; v. 277; p. 453.

Brown, Perry, deceased, Coraopolis, Pa.; M. J. Brown, executrix. Brake. No. 1,340,321; May 18; v. 274; p. 446.

Brown, Perry, deceased, Coraopolis, Pa.; M. J. Brown, executrix. Hand-brake for railway-cars. No. 1,340,322; May 18; v. 274; p. 446.

Brown, Perry, deceased, Coraopolis, Pa.; M. J. Brown, executrix. Draft-rigging. No. 1,344,979; June 29; v. 275; p. 905.

Brown, Perry, deceased, Coraopolis, Pa.; M. J. Brown, executrix. Draft-rigging. No. 1,344,980; June 29; v. 275; p. 905.

Brown, Perry, deceased, Coraopolis, Pa.; Margaret J. Brown, executrix. Draft-rigging. No. 1,344,981; June 29; v. 275; p. 905.

Brown, Peter D., Kingston, Ontario, Canada. Violin-peg. No. 1,347,613; July 27; v. 276; p. 628.

Brown, R. P., and C. P. Frey, assignors to The Brown Instrument Company, Philadelphia, Pa. Indicating and recording instrument. No. 1,355,448; Oct. 12; v. 279; p. 250.

Brown, Ray G., assignor to The Carey Company, Cleveland, Ohio. Cover for radiators. No. 1,351,093; Aug. 31; v. 277; p. 809.

Brown, Raymond E., Glen Ridge, N. J., assignor to Heyl & Patterson Incorporated, Pittsburgh, Pa. Rail-clamp. No. 1,340,598; May 18; v. 274; p. 499.

Brown, Robert, Toledo, Ohio. Muffler. No. 1,335,872; Apr. 6; v. 273; p. 31.

Brown, Robert, Montrose, Colo. Puzzle ring and bracelet, &c. No. 1,338,973; May 4; v. 274; p. 59.

Brown, Robert, Montrose, Colo. Spark-arrester. No. 1,347,680; July 27; v. 276; p. 642.

Brown, Robert, Donaghmore, Ireland. Shaving-stick. No. 1,357,026; Oct. 26; v. 279; p. 646.

Brown, Robert B., assignor of one-third to M. Fredrick and one-third to A. Weingarten, San Francisco, Calif. Gravity-propelled vehicle. No. 1,332,185; Feb. 24; v. 271; p. 652.

Brown, Robert E., Olean, N. Y. Razor hone and strop. No. 1,332,101; Feb. 24; v. 271; p. 637.

Brown, Robert E., Olean, N. Y. Safety-razor. No. 1,337,435; Apr. 20; v. 273; p. 462.

Brown, Robert E., Olean, N. Y. Combination toilet article. No. 1,343,959; June 22; v. 275; p. 642.

Brown, Robert F., Detroit, Mich. Oil-filtering attachment for internal-combustion engines. No. 1,344,982; June 29; v. 275; p. 905.

Brown, Robert G., Swarthmore, Pa. Multirecord-phonograph. No. 1,334,076; Mar. 16; v. 272; p. 472.

Brown, Roy E., assignor of one-third to G. A. Albright, Portland, Oreg. Lock. No. 1,342,157; June 1; v. 275; p. 107.

Brown Safety Ladder Company. (See Brown, Charles J., assignor.)

Brown, Samuel B., Cairo, Ill. Saw-filing gage. No. 1,361,677; Dec. 7; v. 281; p. 140.

Brown, Samuel J., Osakis, Minn. Fish bait or lure. No. 1,331,618; Feb. 24; v. 271; p. 546.

Brown and Sharpe Manufacturing Company. (See Rich, Charles A., assignor.)

Brown & Sharpe Manufacturing Company. See Spalding, Frank, assignor.)

Brown & Sharpe Manufacturing Company. (See Spence, Lewis D., assignor.)

Brown, Shepherd F., Malden, Mass. Knotter. No. 1,349,659; Aug. 17; v. 277; p. 423.

Brown, Sidney G., North Acton, England. Gyro-compass. No. 1,362,842; Dec. 21; v. 281; p. 467.

Brown Specialties Company. (See Schirra, Julius, assignor.)

Brown, Stanley, Garden City, N. Y. Reflector-headlight. No. 1,359,789; Nov. 23; v. 280; p. 657.

Brown, Steffan A., New York, N. Y. Water-gage. No. 1,359,958; Nov. 28; v. 280; p. 690.

Brown, Summers, London, England. Printed and folded sheet. No. 1,363,081; Dec. 21; v. 281; p. 543.

Brown, Theodore P., Worcester, Mass. Player-piano. No. 1,363,306; Dec. 28; v. 281; p. 598.

Brown, Theophilus, assignor, by mesne assignments, to Deere & Company, Moline, Ill. Conveyer-chute. No. 1,355,308; Oct. 12; v. 279; p. 223.

Brown, Thomas C., assignor to New Jersey Patent Company, West Orange, N. J. System for handling correspondence. No. 1,359,959; Nov. 23; v. 280; p. 691.

Brown, Thomas E., New York, N. Y. Hydraulic transmission. No. 1,327,080; Jan. 6; v. 270; p. 88.

Brown, Thomas N., Sidney, Ohio. Washing-machine. No. 1,330,679; Feb. 10; v. 271; p. 280.

Brown, Thomas R., Sparkill, N. Y., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electric train-wire coupling. No. 1,349,405; Aug. 10; v. 277; p. 301.

Brown, Vincent B., Plattsmouth, Nebr. Sickle. No. 1,353,450; Sept. 21; v. 278; p. 433.

Brown, Walter, assignor, by mesne assignments, to Webster Electric Company, Racine, Wis. Magneto-machine. No. 1,330,165; Feb. 10; v. 271; p. 185.

Brown, Walter T. K., Branford, assignor to Winchester Repeating Arms Co., New Haven, Conn. Tubular ice-skate. No. 1,352,113; Sept. 7; v. 278; p. 77.

Brown, Walter W., Chico, Calif. Primer for engines. No. 1,353,144; Sept. 21; v. 278; p. 374.

Brown, Warren A., Hempstead, N. Y. Electrically-heated draft device. No. 1,338,611; Apr. 27; v. 273; p. 753.

Brown, William B., *et al.* (See Reider, John L., assignor.)

Brown, William D., Somerset, Ky. Shock-absorber. No. 1,346,739; July 13; v. 276; p. 340.

Brown, William E., assignor to Brown Engineering Company, Detroit, Mich. Reversing valve-gear. No. 1,336,344; Apr. 6; v. 273; p. 121.

Brown, William G., New Orleans, La. Stock food. No. 1,360,174; Nov. 23; v. 280; p. 733.

Brown, William H. (See Kennedy, James G., assignor.)

Brown, William H., Chicago, Ill. Differential-motion mechanism. No. 1,329,159; Jan. 27; v. 270; p. 555.

Brown, William H. Margaretville, N. J. Antiskid device. No. 1,333,898; Mar. 16; v. 272; p. 438.

Brown, William H., Cleveland, O., assignor to G. L. Woodard, San Diego, Calif. Spring-oiler. No. 1,339,546; May 11; v. 274; p. 243.

Brown, William M., Johnstown, Pa. Method of and apparatus for making ferrules. No. 1,330,782; Feb. 17; v. 271; p. 368.

Brown, William B., Greenville, S. C. Self-threading shuttle. No. 1,356,513; Oct. 26; v. 279; p. 546.

Brown, William R. (See Propert, T. G., and Brown.)

Brown, William R., assignor to A. Mueller, trustee, Decatur, Ill. Drilling-machine. No. 1,347,614; July 27; v. 276; p. 629.

Brown, William W., Arkansas City, Kans. Shock-absorbing heel. No. 1,328,816; Jan. 27; v. 270; p. 489.

Browne, Arthur W. (See Johnston, W. A., Brown, and Wallace.)

Browne, Arthur W., Ithaca, N. Y. Dehydration. No. 1,354,279; Sept. 28; v. 278; p. 645.

Digitized by Google

Browne, Frank A., Buffalo, N. Y., assignor to The Barber Asphalt Paving Company, Philadelphia, Pa. Movable mixing apparatus. No. 1,363,560; Dec. 28; v. 281; p. 647.

Browne, Frank A., Buffalo, N. Y., assignor to The Barber Asphalt Paving Company, Philadelphia, Pa. Mixing apparatus. No. 1,363,561; Dec. 28; v. 281; p. 647.

Browne, Harry P. C., New York, N. Y. Counting-machine. No. 1,333,061; Mar. 9; v. 272; p. 220.

Browne, Harry P. C., New York, N. Y. Odometer-operating means. No. 1,361,008; Dec. 7; v. 280; p. 5.

Browne, Henry V., assignor of one-third to R. J. Mead, Tonkawa, Okla. Tractor-cab. No. 1,341,355; May 25; v. 274; p. 715.

Browne, Herbert J., Washington, D. C. Acetylene-lamp. No. 1,360,878; Nov. 30; v. 280; p. 939.

Browne, Joseph E., Mountain Lakes, N. J., assignor to Silverberg Import Company, Incorporated. Hairpin. No. 1,360,494; Nov. 30; v. 280; p. 864.

Browne, Philip C., Portland, Oreg. Combined lamp and heater. No. 1,335,650; Mar. 30; v. 272; p. 874.

Browne, Vere B., Tarentum, Pa. Manufacture of steel sheets. No. 1,340,149; May 18; v. 274; p. 415.

Browning, Alfred G., South Norwood, London, England. Pump or the like. No. 1,342,087; June 1; v. 275; p. 93.

Browning, George. (See La Chance, L. H., and Browning.)

Browning, George, Chicago, Ill. Safety-razor. No. 1,346,294; July 13; v. 276; p. 253.

Browning, George, Chicago, Ill. Computing-machine. No. 1,360,091; Nov. 23; v. 280; p. 717.

Browning, George W., Clinton, N. Y. Fertilizer-distributer. No. 1,339,256; May 4; v. 274; p. 112.

Browning, John, Ashaway, R. I. Swinging headlight-bracket. No. 1,332,026; Feb. 24; v. 271; p. 623.

Browning, John B., Camden, N. J. Spring-motor. No. 1,345,122; June 29; v. 275; p. 933.

Browning, John M., Ogden, Utah. Machine for filling feed-belts for machine-guns. No. 1,327,698; Jan. 13; v. 270; p. 214.

Browning, Walter H., Wembley, England. Strip-feeding mechanism. No. 1,327,520; Jan. 6; v. 270; p. 120.

Browning, William H., New York, N. Y. Edge-trimmer. No. 1,348,847; Aug. 10; v. 277; p. 191.

Brownlee, John V., Philadelphia, Pa. Demountable tire-rim. No. 1,338,067; Apr. 27; v. 273; p. 652.

Brownlee, Roy H., Pittsburgh, Pa. Tubing construction. No. 1,329,285; Jan. 27; v. 270; p. 578.

Brownlee, William A. (See Starks, Christian J., assignor.)

Brownley, Leslie E., Union Hill, N. J. Making combined real-life and animated-cartoon motion-pictures. No. 1,355,648; Oct. 12; v. 279; p. 288.

Brownlie, Thomas A. M., Lyallpur, Punjab, India. Cultivator. No. 1,357,841; Nov. 2; v. 280; p. 122.

Brownlow, Richard S., Manchester, England. Centrifugal separator. No. 1,356,805; Oct. 26; v. 279; p. 602.

Brownson, Thomas K. (See Partington, Jones, and Brownson.)

Bruand, Edouard, Villeneuve, Switzerland. Compressor. No. 1,333,382; Mar. 9; v. 272; p. 280.

Bruber, Victor G., Rucker, Minn. Gate-latch. No. 1,338,209; Apr. 27; v. 273; p. 679.

Bruce, Andrew M., Ira, Mo. Rubber shoe. No. 1,335,273; Mar. 30; v. 272; p. 803.

Bruce, Charles R., Kansas City, Mo. Folding bed. No. 1,340,212; May 18; v. 274; p. 426.

Bruce, Gaston D., Middlesboro, Ky. Curtain-pole and shade-supporting bracket. No. 1,335,954; Apr. 6; v. 273; p. 47.

Bruce, John L. (See Embach, M. P., and Bruce.)

Bruce, Thomas D. (See Woodruff, George N., assignor.)

Bruce, William J., Sterling, Ill. Demountable rim for automobile-wheels. No. 1,347,144; July 20; v. 276; p. 479.

Bruce, William M., Jr., Springfield, Ohio. Telegraphy. No. 1,352,873; Sept. 14; v. 278; p. 262.

Bruck, Henry, Portland, Oreg. Reinforcement for the shank edges of shoe-taps. No. 1,341,880; June 1; v. 275; p. 52.

Bruckman, Frederick A., Portland, Oreg. Pastry-making machine. No. 1,358,684; Nov. 9; v. 280; p. 351.

Bruder, Edmund, Chicago, assignor to H. I. Koppelman, Wilmette, Ill. Toilet-cabinet. No. 1,329,070; Jan. 27; v. 270; p. 538.

Bruder, George H., Boston, Mass. Hairpin. No. 1,337,039; Apr. 13; v. 273; p. 314.

Bruder, George H., Fitchburg, Mass. Indicator for vehicles. No. 1,341,009; May 25; v. 274; p. 648.

Brueggeman, Frank, assignor of one-third to H. S. Richards, one-sixth to H. P. Andresen, and one-sixth to E. W. H. Andresen, Chicago, Ill. Street or road snow-plow. No. 1,334,516; Mar. 23; v. 272; p. 600.

Bruen, William H., Duluth, Minn. Sales-slip. No. 1,361,009; Dec. 7; v. 280; p. 6.

Bruger, Louise, Jersey City, N. J. Open-mesh joint in textile and other fabrics and making same. No. 1,340,117; May 11; v. 274; p. 351.

Bruhn, Albert, St. Bonifacius, Minn. Snap-hook. No. 1,332,884; Mar. 9; v. 272; p. 187.

Bruhn, Daniel, Hammond, Ind. Vehicle-jack. No. 1,340,150; May 18; v. 274; p. 415.

Bruhy, Alexander F., Plymouth, Wis. Automatic stop for phonographs. No. 1,360,879; Nov. 30; v. 280; p. 939.

Brumfield, James H., assignor of one-half to E. C. Ferrell, Armor, W. Va. Rail-spike. No. 1,342,661; June 8; v. 275; p. 257.

Brumfield, W. H., *et al.* (See Strickland, Dewitt W., assignor.)

Brumme, Frank J., Cooksville, Ill. Automatic governor. No. 1,343,808; June 15; v. 275; p. 548.

Brummett, William S., and E. C. Reed, Pawhuska, Okla. Key-anchor. No. 1,347,773; July 27; v. 276; p. 661.

Brun-Mill Company. (See Miller, Melville A., assignor.)

Brundage, James W., assignor to The Miller Rubber Company, Akron, Ohio. Blank-forming machine. No. 1,338,120; Apr. 27; v. 273; p. 662.

Brundage, James W., assignor to The Miller Rubber Company, Akron, Ohio. Separable core. No. 1,356,596; Oct. 26; v. 279; p. 561.

Brundidge, J. P., *et al.* (See Tullis, John T., assignor.)

Brundin, Josef E., assignor to Aktiebolaget Pump-Separator, Stockholm, Sweden. Inlet and distributing device for full milk in cream-separators. No. 1,332,600; Mar. 2; v. 272; p. 82.

Brunelle, Arthur, Madoc, assignor of one-half to H. L. Gordon, Flatville, Mont. Fly-chaser. No. 1,338,810; May 4; v. 274; p. 30.

Brunelle, Hilera, Turners Falls, Mass. Shearing-tool. No. 1,360,618; Nov. 30; v. 280; p. 888.

Brunelli, Tito L., Clearfield, Pa. Electrical fire-lighting attachment for stoves. No. 1,346,698; July 13; v. 276; p. 332.

Bruner, George E., Los Angeles, Calif. Game. No. 1,344,988; June 29; v. 275; p. 906.

Bruner, William S. (See Valentine, M. R., and Bruner.)

Brunet, Gustave, Brussels, Belgium. Multiple automatic machine for cutting bars of soap or similar products into pieces and pressing the pieces obtained. No. 1,361,439; Dec. 7; v. 281; p. 93.

Bruning, William H., Evansville, Ind. Coffee-pot. No. 1,351,410; Aug. 31; v. 277; p. 873.

Bruninga, John H. (See Miller, J. B., and Bruninga.)

Brunjes, George F., Brooklyn, N. Y. Boat. No. 1,357,027; Oct. 26; v. 279; p. 646.

Brunn, Robert, *et al* (See Berry, Francis E., assignor.)

Brunn, Walter, *et al.* (See Berry, Francis E., assignor.)

Brunner, Herbert R., assignor, by mesne assignments, to J. F. Blanchard, New York, N. Y. Air-preheating device for furnaces and the like. No. 1,354,950; Oct. 5; v. 279; p. 100.

Bruno, Walter A., Los Angeles, Calif. Filling composition. No. 1,341,540; May 25; v. 274; p. 751.

Bruns, Armin R., Sigourney, Iowa. Traction-wheel. No. 1,354,728; Oct. 5; v. 279; p. 55.

Bruns, Erwin W., Tower City, N. D. Seat. No. 1,364,038; Dec. 28; v. 281; p. 737.

Bruns, Frederick A., Blaine, Wash. Separator. No. 1,327,903; Jan. 13; v. 270; p. 252.

Bruns, George H., New York, N. Y. Beam-clamp. No. 1,327,981; Jan. 13; v. 270; p. 267.

Bruns, Richard E., Chicago, Ill. Forming bottle-caps. No. 1,333,750; Mar. 16; v. 272; p. 411.

Bruns, Richard E., Chicago, Ill. Sealing-cap. No. 1,346,112; July 13; v. 276; p. 217.

Bruns, Richard E., Chicago, Ill. Sealing-cap. No. 1,361,225; Dec. 7; v. 281; p. 48.

Brunst, William M., assignor to The Kinnear Manufacturing Company, Columbus, Ohio. Means for retarding the descent of fire-curtains. No. 1,332,942; Mar. 9; v. 272; p. 198.

Brunst, William M., assignor to The Kinnear Manufacturing Company, Columbus, Ohio. Elevator-door. No. 1,354,596; Oct. 5; v. 279; p. 30.

Brunswick-Balke-Collender Company. (See Judd, Earldley C. B., assignor.)

Brunswick-Balke-Collender Company, The. (See Lietz, Paul S., assignor.)

Brunswick-Balke-Collender Company, The. (See Nystrom, Martin, assignor.)

Brunt Tile and Porcelain Company, The. (See McKnight, Oscar W., assignor.)

Brunton, David W., Denver, Colo. Illuminated transit. No. 1,339,019; May 4; v. 274; p. 68.

Bruschi, John, Bayonne, N. J. Combined bootjack and footrest. No. 1,361,010; Dec. 7; v. 280; p. 6.

Brush, Alanson P., Detroit, Mich. Engine-piston. No. 1,338,169; Apr. 27; v. 273; p. 671.

Brush, Alanson P., Detroit, Mich. Internal-combustion engine of the V-type. No. 1,353,213; Sept. 21; v. 278; p. 388.

Brush, Alanson P., Detroit, Mich. Valve. No. 1,354,019; Sept. 28; v. 278; p. 592.

Brush, Howard R. (See Spohr, John, assignor.)

Brush, Matthew C., *et al.* (See Boyd, Frederic R. C., assignor.)

Brusky, Fred A., Great Falls, Mont. Self-soaping washboard. No. 1,334,885; Mar. 23; v. 272; p. 671.

Brussell, Harry. (See Wagman, E., and Brussell.)

Bruyere, Mose, Green Bay, Wis. Crutch and cushion-tip therefor. No. 1,347,320; July 20; v. 276; p. 514.

Digitized by Google

Alphabetical list of patentees—Continued.

Bryan, Daniel R., Chatham, N. J.; F. J. Bryan, administrator. Apparatus for sorting heterogeneous materials. (Reissue.) No. 14,917; July 20; v. 276; p. 546.
Bryan, Edgar J., assignor of one-half to F. Stebler, Riverside, Calif. Fastener. No. 1,336,193; Apr. 6; v. 278; p. 93.
Bryan, Elisabeth C. (See Miller, Albert W., assignor.)
Bryan, Francis J., administrator. (See Bryan, Daniel R.) (Reissue.)
Bryan, Harry F. (See Robbins, W., and Bryan.)
Bryan, Leon O., and W. R. Swint, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Explosive. No. 1,327,859; Jan. 13; v. 270; p. 244.
Bryan, Robert W., Aberdeen, Wash. Antirattling gear. No. 1,334,517; Mar. 23; v. 272; p. 600.
Bryan, William E., Akron, Ohio. Sizing or separating apparatus. No. 1,339,161; May 4; v. 274; p. 95.
Bryans, John E., Winnipeg, Manitoba, Canada. Automobile-radiator. No. 1,341,165; May 25; v. 274; p. 678.
Bryant, Alfred A., Easley, S. C. Clevis adjustment for plows. No. 1,353,946; Sept. 28; v. 278; p. 576.
Bryant, Augustus H., Glen Ridge, N. J. Safety-razor. No. 1,342,370; June 1; v. 275; p. 147.
Bryant, Corwin W., Minneapolis, Minn. Sterilizer. No. 1,345,123; June 29; v. 275; p. 933.
Bryant Electric Company, The. (See Anderson, Carl E., assignor.)
Bryant Electric Company, The. (See Badeau, Harry U., assignor.)
Bryant Electric Company, The. (See Goodridge, Gilbert W., assignor.)
Bryant Electric Company, The. (See Thomas, G. B., and Anderson, assignors.)
Bryant Electric Company, The. (See Thomas, George B., assignor.)
Bryant, Ellsworth S. (See Bery, Henry J., assignor.)
Bryant, Elmer J., assignor to The Taft-Pierce Manufacturing Company, Woonsocket, R. I. Precision-squares. No. 1,355,808; Oct. 19; v. 279; p. 360.
Bryant, Elmer J., assignor to The Taft-Pierce Manufacturing Company, Woonsocket, R. I. Toolmaker's adjustable knee. No. 1,355,809; Oct. 19; v. 279; p. 360.
Bryant, George W. (See Heale, F., and Bryant.)
Bryant, Harvey L., Princeton, and C. E. Stinchfield, Corinna, Me., assignors to American Can Company, New York, N. Y. Can-retainer for cooking-machines. No. 1,330,055; Feb. 10; v. 271; p. 164.
Bryant, James P. (See Susol, Paul, assignor.)
Bryant, Lawyer, La Grange, N. C. Tractor-cultivator. No. 1,359,868; Nov. 23; v. 280; p. 672.
Bryant, Lucious S., West Palm Beach, Fla. Flash-light. No. 1,334,885; Mar. 23; v. 272; p. 661.
Bryant, Richard S., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Vehicle-wheel. No. 1,342,622; June 8; v. 275; p. 549.
Bryant, Richard S., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Transversely-split demountable rim. No. 1,353,088; Sept. 28; v. 278 p. 585.
Bryant, Thomas W., and C. G. Hoerle, Torrington, Conn. Roller-bearing. No. 1,330,579; Feb. 10; v. 271; p. 262.
Bryant, William C., Columbus, Ohio. Shears. No. 1,330,515; Feb. 10; v. 271; p. 250.
Bryce, Clarence H., Glen Ridge, N. J., assignor to Benjamin Moore & Co., Brooklyn, N. Y. Sound-absorbing coating. No. 1,341,704; June 1; v. 275; p. 18.
Bryce, Harry W. (See Currier, H. D., and Bryce.)
Bryce, Harry W., Downers Grove, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. No. 1,354,020; Sept. 28; v. 278; p. 592.
Bryce, James W. (See Goss, H. T., and Bryce.)
Bryce, James W., Binghamton, N. Y., assignor to International Time Recording Company of New York. Tabulating-machine. No. 1,335,274; Mar. 30; v. 272; p. 803.
Bryce, James W., Binghamton, N. Y., assignor to The International Time Recording Company of New York. Cost-keeping machine. No. 1,340,435; May 18; v. 274; p. 469.
Bryden, James. (See Jones, A. W., Bryden, and Mowbray.)
Bryld, Mythias B., Horsens, Torvet, Denmark. Sofa or armchair that can be converted to a bed. No. 1,359,027; Nov. 16; v. 280; p. 462.
Bryne, James L., Boston, Mass. Floating wooden dry-dock. No. 1,336,941; Apr. 13; v. 273; p. 295.
Brynge, Hannes, Enköping, and H. Hammar, Stockholm, Sweden. Apparatus for laying off or ascertaining ships' courses. No. 1,330,839; Feb. 17; v. 271; p. 378.
Brynteson, Brynte, Odebolt, Iowa. Air-cushion for pump-operating mechanism. No. 1,327,940; Jan. 13; v. 270; p. 259.
Bryon, William J., New York, N. Y. Adjusting device for door checks and closers. No. 1,361,304; Dec. 7; v. 281; p. 64.
Bryon, William J., New York, N. Y. Door check and closer. No. 1,363,390; Dec. 28; v. 281; p. 613.
Bryon, William J., New York, N. Y. Door closer and check. No. 1,364,034; Dec. 28; v. 281; p. 738.
Bryson, George E., Omaha, Nebr. Sifting-grate. No. 1,359,869; Nov. 23; v. 280; p. 672.
Bryson, Harry B., Pittsburgh, Pa. Metallurgical furnace. No. 1,358,703; Nov. 16; v. 280; p. 399.
Bryson, John M. (See McConnell, C. D., and Bryson.)
Bryson, John M., Detroit, Mich. Hose-clamp. No. 1,356,904; Oct. 26; v. 279; p. 622.
Bryson, Tandy A., Troy, N. Y., assignor to Tolhurst Machine Works. Centrifugal machine. No. 1,331,692; Feb. 24; v. 271; p. 559.
Bryson, Thomas J., New Orleans, La. Traction-lug for vehicles. No. 1,349,406; Aug. 10; v. 277; p. 301.
Bryson, Walter S., Turtle Lake, N. D. Tank-heater. No. 1,329,035; Jan. 27; v. 270; p. 532.
Brzczowski, Wojchiech. (See Pys, Paul, assignor.)
Bua, Frank A., Lodi, N. J. Illuminating attachment for music-holders. No. 1,352,349; Sept. 7; v. 278; p. 122.
Bubar, Hudson H., and C. J. Beust, Brooklyn, N. Y. Mechanical mixer and drier. No. 1,344,675; June 29; v. 275; p. 848.
Bubb, Charles L., Williamsport, Pa. Automatic oiler. No. 1,337,687; Apr. 20; v. 273; p. 510.
Buch, Max, Detroit, assignor to H. E. Edwards, Jackson, Mich. Top for motor-vehicles. No. 1,330,840; Feb. 17; v. 271; p. 379.
Buch, Max, Detroit, assignor to H. E. Edwards, Jackson, Mich. Folding top. No. 1,336,022; Apr. 6; v. 273; p. 60.
Buch, Max, Detroit, assignor to H. E. Edwards, Jackson, Mich. Folding top. No. 1,342,012; June 1; v. 275; p. 78.
Buch, Max, Birmingham, England, assignor, by mesne assignments, to Edwards Corporation, Jackson, Mich. Cape cart-hood for use on motor-vehicles. No. 1,349,045; Aug. 10; v. 277; p. 229.
Buch, Royer S., York, Pa. Adjustable jacket. No. 1,327,224; Jan. 6; v. 270; p. 65.
Buch, Royer S., York, Pa. Molder's flask. No. 1,335,818; Apr. 6; v. 273; p. 22.
Buch, Royer S., York, Pa. Flask-bar. No. 1,347,574; July 27; v. 276; p. 621.
Buchanan, Frank, Syracuse, N. Y. Electrical resistance. No. 1,359,960; Nov. 23; v. 280; p. 691.
Buchanan, Frederick F., and N. F. Slack, Machiponga, Va. Package-tie. No. 1,353,717; Sept. 21; v. 278; p. 488.
Buchanan, Guy H., Roselle, N. J., assignor to American Cyanamid Company, New York, N. Y. Producing hydrocyanic acid. No. 1,352,055; Sept. 14; v. 278; p. 218.
Buchanan, Guy H., Roselle, N. J., assignor to American Cyanamid Company, New York, N. Y. Recovering hydrocyanic acid. No. 1,355,384; Oct. 12; v. 279; p. 238.
Buchanan, Isaac W. P., Lebanon, Tenn. Sterilizing apparatus. No. 1,343,108; June 8; v. 275; p. 347.
Buchanan, John F., and C. E. White, Indianapolis, Ind. Cleaning device. No. 1,355,385; Oct. 12; v. 279; p. 238.
Buchanan, Moses R., Silver City, N. Mex. Pressure-indicator No. 1,341,542; May 25; v. 274; p. 751.
Buchanan, Stewart H., Beaumont, Tex. Coaling device. No. 1,344,481; June 22; v. 275; p. 744.
Buchenau, Lloyd W., Stockton, Calif. Gum and mint case. No. 1,349,263; Aug. 10; v. 277; p. 273.
Buchenau, Lloyd W., Stockton, Calif. Show and sales case. No. 1,359,668; Nov. 23; v. 280; p. 632.
Bucher, David H., Louisville, Ky. Collapsible pail. No. 1,353,627; Sept. 21; v. 278; p. 470.
Bucher, William W., Chicago, Ill., assignor to Electromatic System Company, Portland, Me. Electrical generating system. No. 1,332,707; Mar. 2; v. 272; p. 102.
Buchholtz, Vincent A., Cumberland, Md. License-plate holder for automobiles. No. 1,360,880; Nov. 30; v. 280; p. 939.
Buchman, Vernon L., Millers, Md. Resilient tire. No. 1,342,158; June 1; v. 275; p. 107.
Buchmann, Edward G., Chicago, Ill. Manufacturing a composite fabric. No. 1,355,534; Oct. 12; v. 279; p. 267.
Buchner, Max, Heidelberg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Depositing hydrate of alumina and similar gelatinous precipitates from their salts. No. 1,337,191; Apr. 20; v. 273; p. 417.
Buchner, Max, Heidelberg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Manufacture of metal hydroxids. No. 1,337,192; Apr. 20; v. 273; p. 417.
Buchsbaum, Samuel, Chicago, Ill. Belt-buckle. No. 1,340,821; May 18; v. 274; p. 541.
Buchtel, Ralph S., *et al.* (See Whitcomb, James, assignor.)
Buchwald, Henry C., and J. H. Connelly, Baltimore, Md. Slug-casting machine. No. 1,360,881; Nov. 30; v. 280; p. 939.
Buck, Alonzo M., Elizabeth, N. J. Registering mechanism for vehicles or tractors. No. 1,340,324; May 18; v. 274; p. 447.
Buck, Arthur W., St. Louis, Mo. Radiograph-mount. No. 1,361,678; Dec. 7; v. 281; p. 140.
Buck, Charles P., Topeka, Kans. Sheet-metal-cutting machine. No. 1,327,082; Jan. 6; v. 270; p. 38.
Buck, Chester H., Chattanooga, Tenn. Loose-leaf-binder attachment. No. 1,332,159; Feb. 24; v. 271; p. 647.
Buck, David V. (See Garman, H. B., and Buck.)
Buck, Frank H., and P. McRae, Wilmington, Del. Electrolytic cell. No. 1,363,228; Dec. 28; v. 281; p. 583.

Digitized by Google

Buck, Frank S., Springfield, Vt., assignor, by mesne assignments, to Fits-Empire Double Pivot Last Co., Rochester, N. Y. Machine for turning irregular forms. No. 1,330,841; Feb. 17; v. 271; p. 379.

Buck, Frank S., Springfield, Vt., assignor, by mesne assignments, to Fits-Empire Double Pivot Last Co., Rochester, N. Y. Cutter instrument for wood-turning lathes. No. 1,361,305; Dec. 7; v. 281; p. 64.

Buck, Harold W. (See Blackwell, F. O., and Buck.)

Buck, Herman J., assignor to Mathews Gravity Carrier Company, Ellwood City, Pa. Ball-bearing for gravity-carriers. (Reissue.) No. 14,792; Jan. 20; v. 270; p. 458.

Buck, Landon A., Cooper, Tex. Rail joint and brace. No. 1,343,323; June 1; v. 275; p. 139.

Buck, Levin T., Weems, Va. Fertilizer. No. 1,330,369; Feb. 10; v. 271; p. 223.

Buck, Wilmer G., Fremont, assignor to Continental Engineering Corporation, Omaha, Nebr. Valve-rotator for internal-combustion engines. No. 1,359,669; Nov. 23; v. 280; p. 632.

Buckel, Albert, Peru, Ill. Sack-holder. No. 1,351,094; Aug. 31; v. 277; p. 809.

Buckey, Thomas W., *et al.* (See Simmons, James L., assignor.)

Buckeye Incubator Company, The. (See Harner, John E., assignor.)

Buckeye Iron and Brass Works. (See Trace, Russell A., assignor.)

Buckeye Steel Castings Company, The. (See Orr, Claude L., assignor.)

Buckeye Traction Ditcher Company, The. (See Krupp, Leo A., assignor.)

Buckham, George T. (See Barker, F. H., and Buckham.)

Buckham, George T. (See Dawson, A. T., and Buckham.)

Buckheim, Max L., Brooklyn, N. Y. Pocket accounting device. No. 1,342,707; June 8; v. 275; p. 266.

Buckingham, Fremont H., assignor to The Standard Computing Scale Company, Detroit, Mich. Scale. No. 1,347,206; July 20; v. 276 p. 490.

Buckingham, Robert, Huntington, Ind. Belt-cutter. No. 1,344,169; June 22; v. 275; p. 682.

Buckius, Albert O., Jr., Chicago, Ill., assignor to Chicago Manufacturing and Distributing Co. Vehicle-body brace. No. 1,328,415; Jan. 20; v. 270; p. 386.

Buckius, Albert O., Jr., Chicago, Ill., assignor to The National Malleable Castings Company, Cleveland, Ohio. Manufacture of journal-boxes. No. 1,358,821; Nov. 16; v. 280; p. 423.

Buckius, Albert O., Jr., Chicago, Ill., assignor to The National Malleable Castings Company, Cleveland, Ohio. Manufacture of journal-boxes. No. 1,358,822; Nov. 16; v. 280; p. 423.

Buckius, Edward M., Los Angeles, Calif. Collapsing tap. No. 1,344,113; June 22; v. 275; p. 672.

Buckland, Edward S., Endicott, N. Y. Eye instrument. No. 1,359,870; Nov. 23; v. 280; p. 672.

Buckle, John V., assignor of one-half to E. R. Dustin, Salt Lake City, Utah. Drink-mixer. No. 1,340,849; May 18; v. 274; p. 546.

Buckley, Arthur H., Little Coogee, assignor to W. C. Biddle, Bexley, and V. G. Reilly, Sydney, New South Wales, Australia. Fuse-replacing appliance. No. 1,363,835; Dec. 28; v. 281; p. 700.

Buckley, Claude W., Memphis, Tenn. Dispensing-receptacle. No. 1,355,210; Oct. 12; v. 279; p. 404.

Buckley, George A., St. Andrews, Wash. Combined plow and scraper. No. 1,356,036; Oct. 19; v. 279; p. 494.

Buckley, James W., Weatherford, Tex. Truss. No. 1,337,994; Apr. 27; v. 273; p. 638.

Buckley, John J., assignor of one-third to W. T. Davidson, Boston, and two-thirds to C. A. Schmitz, West Medford, Mass. Signaling apparatus. No. 1,338,210; Apr. 27; v. 273; p. 679.

Buckley, John P., and A. E. Eard, Washington, D. C. Machine for assorting and counting paper money. No. 1,328,263; Jan. 20; v. 270; p. 357.

Buckley, William J., East Orange, assignor to Davis-Bournonville Company, Jersey City, N. J. Welding apparatus. No. 1,335,873; Apr. 6; v. 273; p. 31.

Buckley, William J., East Orange, N. J., assignor to Davis-Bournonville Company, New York, N. Y. Magnetic-flame welding-machine. No. 1,343,346; June 15; v. 275; p. 456.

Bucklin, Charles S., Red Bank, N. J., assignor to Sprague Canning Machinery Company, Chicago, Ill. Hand-packfilling machine. No. 1,335,819; Apr. 6; v. 273; p. 22.

Buckmann, Frederik L. W., Amsterdam, Netherlands. Cutting and rounding-off machine for teeth for clockwork. No. 1,341,541; May 25; v. 274; p. 751.

Buckminster, Ira C., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Cutting-machine. No. 1,347,615; July 27; v. 276; p. 629.

Bucknam, Worthy C., Jersey City, N. J., assignor to Davis-Bournonville Company, New York, N. Y. Pantographic gas-cutting apparatus. No. 1,333,899; Mar. 16; v. 272; p. 438.

Bucknam, Worthy C., Jersey City, N. J., assignor to Davis-Bournonville Company, New York, N. Y. Change-speed gearing. No. 1,338,974; May 4; v. 274; p. 59.

Bucknam, Worthy C., Jersey City, N. J., assignor to Davis-Bournonville Company, New York, N. Y. Flame-welding machine. No. 1,341,839; June 1; v. 275; p. 45.

Buckner, Gilbert J., assignor of one-third to C. Johnson and one-third to H. L. Johnson, Bloomfield, Ind. Post. No. 1,356,514; Oct. 26; v. 279; p. 546.

Buckner, Harry L., Worcester, Mass., and E. Burke, Portland, Me. Waterproofing composition for fibrous materials. No. 1,349,601; Aug. 17; v. 277; p. 412.

Buckwalter, Leon G. (See Hutchinson, Morton C., assignor.)

Buckwell, James F., New York, N. Y. Harp and harp-action. No. 1,332,885; Mar. 9; v. 272; p. 187.

Bucyrus Company. (See Ferris, Walter, assignor.)

Buda Company. (See Dyer, Walter C., assignor.)

Buda Company. (See Fisher, Raymond B., assignor.)

Budai, Paul B., Montgomery county, near Dayton, Ohio. Hydrocarbon-burner. No. 1,331,048; Feb. 17; v. 271; p. 420.

Budd, Edward G., Manufacturing Company. (See Ledwinka, Joseph, assignor.)

Budd, Edward G., Manufacturing Company. (See Maise, Herman C., assignor.)

Budd, George H., Salt Lake City, Utah. Tire-casing seal. No. 1,347,439; July 20; v. 276; p. 537.

Budd, George H., Salt Lake City, Utah. Dirigible headlight. No. 1,350,252; Aug. 17; v. 277; p. 537.

Budd Wheel Corporation. (See Ibach, Emil, assignor.)

Budd Wheel Corporation. (See Schenck, Charles, assignor.)

Buddington, Thomas C., assignor of one-half to S. G. Elam, Pasadena, Calif. Drilling-bit. No. 1,347,774; July 27; v. 276; p. 661.

Buddle, George T., Chicago, Ill. Fish-lure. No. 1,338,154; Mar. 9; v. 272; p. 238.

Budge, Mary E., Newton, Auckland, New Zealand. Hygienic cover for sanitary and other vessels. No. 1,362,671; Dec. 21; v. 281; p. 434.

Budinich, John, Union Hill, N. J. Mold for asbestos flanges. No. 1,328,817; Jan 27; v. 270; p. 490.

Budnik, Vincent P., Grand Rapids, Mich. Carpenter's hammer. No. 1,331,619; Feb. 24; v. 271; p. 546.

Budnyk, Elena, Vegreville, Alberta, Canada. Combined chair and ladder. No. 1,348,474; Aug. 3; v. 277; p. 67.

Buecher, Jacob. (See Merkel, H., and Buecher.)

Buehl, John L., and F. A. Fritze, Jr., assignors to Durable Box Co., Chicago, Ill. Knockdown box. No. 1,361,823; Dec. 14; v. 281; p. 215.

Buehler, Louis G. E., Chicago, Ill. Front truck for tractors and similar vehicles. No. 1,330,056; Feb. 10; v. 271; p. 164.

Buehner, William F. A., Newark, N. J. Adjustable power-rudder for small boats. No. 1,330,842; Feb. 17; v. 271; p. 379.

Bueker, William, Dewey, Okla. Pipe-clamp. No. 1,354,084; Sept. 28; v. 278; p. 606.

Buel, Hillhouse, Seattle, Wash. Treating milk. No. 1,327,308; Jan. 6; v. 270; p. 80.

Buell, Benjaman J., Reading, Pa. Car-wheel skid-shoe. No. 1,343,614; June 15; v. 275; p. 509.

Buell, Edgar, Clinton, Conn. Shears. No. 1,362,599; Dec. 21; v. 281; p. 419.

Buell, William C., Jr., assignor to Tate-Jones & Co. Inc., Pittsburgh, Pa. Heating-furnace. No. 1,344,436; June 22; v. 275; p. 735.

Buell, William C., Jr., Osborne borough, Pa., assignor to Tate-Jones & Co., Inc., Pittsburgh, Pa. Heating-furnace. No. 1,344,437; June 22; v. 275; p. 736.

Buell, William C., Jr., Osborne borough, Pa., and J. W. Griswold, Toledo, Ohio, assignors to Henry L. Doherty and Company, New York, N. Y. Heating-furnace. No. 1,344,438; June 22; v. 275; p. 736.

Buell, Young K., New York, N. Y. Safety-compartment for ships. No. 1,328,122; Jan. 13; v. 270; p. 294.

Buell, Young K., New York, N. Y. Reinforce for shirts. No. 1,331,413; Feb. 17; v. 271; p. 487.

Buenger, Frederick L., assignor of one-half to S. F. Fischer, Chicago, Ill. Aspirator. No. 1,331,230; Feb. 17; v. 271; p. 452.

Buensod, Alfred C., assignor to The Tobacco Treating Co. Inc., New York, N. Y. Curing tobacco. No. 1,339,373; May 4; v. 274; p. 133.

Buensod, Alfred C., assignor to The Tobacco Treating Co. Inc., New York, N. Y. Curing tobacco. No. 1,339,374; May 4; v. 274; p. 134.

Buensod, Alfred C. New York, N. Y. Curing and treating tobacco. No. 1,339,375; May 4; v. 274; p. 134.

Buente, Charles F., Avalon, Pa. Pipe-joint. No. 1,357,311; Nov. 2; v. 280; p. 21.

Buesing, William F. C., Chicago, Ill. Vehicle-top. No. 1,357,220; Nov. 2; v. 280; p. 4.

Buess, Theophil. (See Gutzwiller, Herbert, assignor.)

Buffalo Forge Co. (See Carrier, Willis H., assignor.)

Buffalo Forge Company. (See Criqui, Albert A., assignor.)

Buffalo Foundry & Machine Company. (See Sleeper, Oliver S., assignor.)

Buffalo Foundry & Machine Company. (See Yahn, Frederick C. M., assignor.)

Buffalo Scale Company. (See Boyd, William W., assignor.)

Buffalo Truck and Tractor Corporation, The. (See Oversmith, Elmer H., assignor.)

Digitized by Google

Alphabetical list of patentees—Continued.

Buffat, William E., near Knoxville, Tenn. Mechanism for transmitting motion. No. 1,334,594; Mar. 23; v. 272; p. 615.
Buford, George W., Buffalo, assignor to J. H. Williams & Company, Brooklyn, N. Y. Chain pipe-wrench. No. 1,327,309; Jan. 6; v. 270; p. 80.
Bufum Tool Company. (See Culling, Merritt A., assignor.)
Buford, John H., New Hope, Ala. Furrow-cleaner. No. 1,345,346; July 6; v. 276; p. 4.
Buford, William B. (See Reynolds, William J., assignor.)
Bufton, Frank H. (See Ott, H. N., and Bufton.)
Bugbee, Coy M., Springfield, Vt. Tongue-depressor. No. 1,344,020; June 22; v. 275; p. 654.
Bugbee, Lucian W. (See Tillyer, E. D., and Bugbee.)
Bugbee, Lucian W., assignor to Oneplece Bifocal Lens Company, Indianapolis, Ind. Machine for making spotting-wheels for manufacturing lenses. No. 1,333,383; Mar. 9; v. 272; p. 280
Bugbee, Lucian W., Southbridge, Mass., assignor to American Optical Company. Ophthalmic mounting. No. 1,340,875; May 25; v. 274; p. 622.
Bugbee, Lucian W., assignor to American Optical Company, Southbridge, Mass. Illuminating apparatus. No. 1,342,894; June 8; v. 275; p. 305.
Bugbee, Lucian W., assignor to American Optical Company, Southbridge, Mass. Lens. No. 1,347,319; July 20; v. 276; p. 514.
Bugbee, Lucian W., assignor to Oneplece Bifocal Lens Company, Indianapolis, Ind. Lens-blocking device. No. 1,355,211; Oct. 12; v. 279; p. 204.
Bugbee, Lucian W., assignor to American Optical Company, Southbridge, Mass. Trial set. No. 1,361,824; Dec. 14; v. 281; p. 215.
Bugbee, Lucian W., and E. D. Tillyer, assignors to American Optical Company, Southbridge, Mass. Illumination. No. 1,346,172; July 13; v. 276; p. 228.
Bugbee and Niles Company. (See King, Rufus, assignor.)
Bugenhagen, George H., Minot, N. D. Lawn-swing. No. 1,360,495; Nov. 30; v. 280; p. 864.
Bugg, Owen T., Philadelphia, Pa. Inner tube for pneumatic tires and making same. No. 1,329,954; Feb. 3; v. 271; p. 114.
Buggeln, George W., East Orange, N. J. Scarfpin. No. 1,348,083; July 27; v. 276; p. 723.
Buggeln, Harry K., Corona, N. Y. Door-fastener. No. 1,336,505; Apr. 13; v. 273; p. 210.
Buh, Tony, Reitz, Pa. Combined ladder and chair. No. 1,359,486; Nov. 23; v. 280; p. 506.
Buhl, G. A., Company, The. (See Stutzke, R. W. G., assignor.)
Buhl, G. A., Company, The. (See Stutzke, Richard W. G., assignor.)
Buhl, G. A., Company, The. (See Zimmermann, Hans J., assignor.)
Buhl Stamping Company. (See Comp, Charles A., assignor.)
Buhl, William, Flushing, N. Y., assignor to Bulkrug Machine Corporation. Power-transmitting means. No. 1,347,076; July 20; v. 276; p. 466.
Buhl, William, assignor to Bulkrug Machine Corporation, Flushing, N. Y. Connection between piston-rod and crank-shaft. No. 1,349,660; Aug. 17; v. 277; p. 424.
Buhl, William, assignor to Bulkrug Machine Corporation, Flushing, N. Y. Camp. No. 1,349,661; Aug. 17; v. 277; p. 424.
Buhler Brothers, Firm. (See Roth, E., and Steiner, assignors.)
Buhler, Henry W., Boston, Mass. Coke-oven. No. 1,341,257; May 25; v. 274; p. 696.
Buhler, Henry W., Boston, Mass. Coke-oven. No. 1,341,258; May 25; v. 274; p. 696.
Buhoup, Harry C., Chicago, Ill., assignor to The McConway & Torley Company, Pittsburgh, Pa. Railway draft appliance. No. 1,339,020; May 4; v. 274; p. 68.
Buhoup, Harry C., Chicago, Ill., assignor to The McConway & Torley Company, Pittsburgh, Pa. Coupling-centering mechanism. No. 1,345,529; July 6; v. 276; p. 40.
Buhoup, Harry C., Chicago, Ill. assignor to The McConway & Torley Company, Pittsburgh, Pa. Car-coupling. No. 1,358,930; Nov. 16; v. 280; p. 445.
Buhoup, Harry C., Chicago, Ill., assignor to The McConway & Torley Company, Pittsburgh, Pa. Draft appliance for railway-cars. No. 1,361,440; Dec. 7; v. 281; p. 93.
Buhtz, Albert J., Seattle, Wash. Hoop-forming machine. No. 1,354,951; Oct. 5; v. 279; p. 100.
Bukacek, Joseph M., Clarkson, Nebr. Machine-oiler. No. 1,337,688; Apr. 20; v. 273; p. 510.
Bukola, Joseph. (See Ustrzycki, S., and Bukola.)
Bukovecz, Miguel, Mexico, Mexico. Instantaneous safety-switch. No. 1,349,184; Aug. 10; v. 277; p. 257.
Bulanda, Franciszek. (See Bulanda, John, assignor.)
Bulanda, John, Pullman, Ill. Permutation-lock. No. 1,327,140; Jan. 6; v. 270; p. 49.
Bulanda, John, assignor of one-half to F. Bulanda, Pullman, Ill. Window-lock. No. 1,340,876; May 25; v. 274; p. 622.
Bulford, Frederick J. S., Maidenhead, England. Artificial limb. No. 1,345,661; July 6; v. 276; p. 65.
Bulgarides, Charles K., Tacoma, Wash. Calking-machine. No. 1,334,836; Mar. 23; v. 272; p. 661.
Bulkrug Machine Corporation. (See Buhl, William, assignor.)
Bull, Anders, Chicago, Ill. Acoustic signaling method. No. 1,342,584; June 8; v. 275; p. 243.
Bull, Edward E., Whitwell, Tenn. Automobile-tire. No. 1,358,410; Nov. 9; v. 280; p. 296.
Bull, Frank W., Oshawa, Ontario, Canada. Player-piano. No. 1,344,984; June 29; v. 275; p. 906.
Bull, Fredrik R., Christiania, Norway. Saving-clock. No. 1,337,539; Apr. 20; v. 273; p. 482.
Bull, M. M. (See Matlock, Caswell C., assignor.)
Bull Tractor Company. (See Hartsough, D. Maurice, assignor.)
Bulla, Melbern B., El Paso, Tex. Contact-shoe for automatic train-stops. No. 1,335,275; Mar. 30; v. 272; p. 803.
Bullard, Albert M., New York, N. Y., assignor, by mesne assignments, to Western Electric Company, Incorporated. Automatic telephone-exchange. No. 1,327,805; Jan. 13; v. 270; p. 234.
Bullard, Albert M., New York, N. Y., assignor, by mesne assignments, to Western Electric Company, Incorporated. Semimechanical telephone system. No. 1,334,077; Mar. 16; v. 272; p. 472.
Bullard, Edward P., Jr., Stratford, assignor to The Bullard Machine Tool Co., Bridgeport, Conn. Multiple-spindle machine-tool. No. 1,360,175; Nov. 23; v. 280; p. 733.
Bullard Machine Tool Co., The. (See Bullard, Edward P., Jr., assignor.)
Bullard, Washington I., Killingly, Conn. Loop loom-picker. No. 1,332,102; Feb. 24; v. 271; p. 687.
Buller, Charles M., assignor to L. J. Mueller Furnace Company, Milwaukee, Wis. Pipe-supporting means. No. 1,339,547; May 11; v. 274; p. 243.
Buller, Charles M., assignor to L. J. Mueller Furnace Company, Milwaukee, Wis. Piping. No. 1,343,706; June 15; v. 275; p. 527.
Buller Coupler Company, The. (See Buller, Jacob W., assignor.)
Buller, Jacob W., assignor to The Buller Coupler Company, Hillsboro, Kans. Automatic coupling. No. 1,333,884; Mar. 9; v. 272; p. 281.
Buller, Jacob W., assignor to Buller Coupler Company, Inc., Hillsboro, Kans. Draft-coupling. No. 1,344,482; June 22; v. 275; p. 745.
Bulley, George W., St. Joseph, Mich. Tire-vulcanizing mechanism. No. 1,359,487; Nov. 23; v. 280; p. 597.
Bulley, Louis T., assignor to C. Cowles & Company, New Haven, Conn. Controlling mechanism for window-regulators. No. 1,338,485; Apr. 27; v. 273; p. 731.
Bulley, Reginald H., Syracuse, N. Y. Treating metals. No. 1,347,838; July 27; v. 276; p. 673.
Bullis, Frederick J., Minneapolis, Minn. Twine-balling machine. No. 1,362,524; Dec. 14; v. 281; p. 353.
Bullis, Henry C., Redwood Falls, Minn. Talking-picture apparatus. No. 1,335,651; Mar. 30; v. 272; p. 874.
Bulloch, Douglass E. (See Prentiss, Augustin M., assignor.)
Bullock, Carl C., Detroit, Mich. Artificial fish-bait. No. 1,354,952; Oct. 5; v. 279; p. 100.
Bullock, Edward W., S. H. Earl, and G. H. Bryan, assignors to Gleason Works, Rochester, N. Y. Gear-cutting machine. No. 1,351,200; Aug. 31; v. 277; p. 831.
Bullock, Fred J., and W. H. Preston, assignors to Papec Machine Company, Shortsville, N. Y. Ensilage-cutter. No. 1,347,493; July 27; v. 276; p. 604.
Bullock, Frederick A., *et al.* (See Keenan, Ellsworth E., assignor.)
Bullock, Harvey L., North White Plains, N. Y. Fuse-box. No. 1,359,324; Nov. 16; v. 280; p. 519.
Bullock, Hugh, Andover, assignor to Converse Rubber Shoe Company, Malden, Mass. Footwear and making same. No. 1,356,961; Oct. 26; v. 279; p. 633.
Bullock, Joseph A., Central Bridge, N. Y. Stanchion. No. 1,330,166; Feb. 10; v. 271; p. 185.
Bullock, Lewis C., Jr., State College, Pa. Shoestring-fastening device. No. 1,348,475; Aug. 3; v. 277; p. 67.
Bullock, Percy W. (See Handley, George, assignor.)
Bullock, Samuel M., Chicago, and H. S. Lloyd, Oak Park, Ill. Abrasive disk wheel. No. 1,351,021; Aug. 31; v. 277; p. 796.
Bullock, Theodore C., Grand Junction, Colo. Road-grader. No. 1,363,454; Dec. 28; v. 281; p. 625.
Bullowa, Ernest E. M., New York, N. Y. Protector for trousers. No. 1,341,733; June 1; v. 275; p. 24.
Bultman, Ernst A., Orangeburg, S. C. Detachable-pin mounting. No. 1,361,011; Dec. 7; v. 281; p. 6.
Buluckian, Hachig M., Cleveland, Ohio. Hardening aluminum. No. 1,336,420; Apr. 13; v. 273; p. 195.
Bumgardner, George, Chicago, Ill. Ballot-marking mechanism. No. 1,361,226; Dec. 7; v. 281; p. 48.
Bumgardners, Benjamin T., *et al.* (See Traywick, Walter F., assignor.)
Bumgarner, Stephen O, Given, Ohio. Elevator for silos. No. 1,352,500; Sept. 14; v. 278; p. 187.
Bump, Edward D., assignor to The Bettcher Stamping and Manufacturing Company, Cleveland, Ohio. Hinge. No. 1,340,151; May 18; v. 274; p. 415.

Digitized by Google

Bumpas, James L., and P. Falcke, Chicago, Ill.; said Bumpas assignor to United States Ordnance Company, Washington, D. C. Sight. No. 1,327,141; Jan. 6; v. 270; p. 49.

Bumpass, Ollie V., Corinth, Miss. Stove and fireplace. No. 1,360,619; Nov. 30; v. 280; p. 889.

Bunce, Earl H. (See Breyer, F. G., and Bunce.)

Bunch, Walter R., Riverside, assignor of three-fourths to E. B. Dreyfus, San Francisco, Calif. Oil-burner. No. 1,331,558; Feb. 24; v. 271; p. 534.

Bunde, Claude W., Chicago, Ill. Candy-molding machine. No. 1,331,693; Feb. 24; v. 271; p. 560.

Bunde, Claude W., assignor to National Candy Company, Chicago, Ill. Depositing-machine. No. 1,327,806; Jan. 13; v. 270; p. 235.

Bungay, George W., Brooklyn, N. Y., assignor to Acme Die Casting Corporation. Core for casting curved tubular bodies. No. 1,347,575; July 27; v. 276; p. 621.

Bunker, Alva B., South Gouldsboro, Me. Marine compass. No. 1,332,027; Feb. 24; v. 271; p. 623.

Bunker, Arthur C., Montclair, N. J. Fabric-cutting machine. No. 1,356,485; Oct. 19; v. 279; p. 493.

Bunker, Charles A., Kansas City, Mo. Material excavator and separator for oil-wells. No. 1,362,775; Dec. 21; v. 281; p. 455.

Bunker, Charles A., Kansas City, Mo. Bottle-capping implement. No. 1,362,776; Dec. 21; v. 281; p. 455.

Bunker, Ward S., Waukesha, Wis. Camping-automobile. No. 1,327,589; Jan. 6; v. 270; p. 132.

Bunn, Percy L. (See Thompson, H. E., and Bunn.)

Bunnell, Arthur C., *et al.* (See Parsons, John H., assignor.)

Bunnell, Harry C., Westport, N. Y. Railway-rail brace. No. 1,354,239; Sept. 28; v. 278; p. 637.

Bunnell, Harry C., Westport, N. Y. Hand guard and grip. No. 1,333,792; Mar. 16; v. 272; p. 418.

Bunnell, M. Dick. (See Nagal, Wilhelm N., assignor.)

Bunnell, Rose P., administratrix. (See Bunnell, W. O., and Gates.)

Bunnell, William O., deceased, and Q. A. Gates, Wilkes-Barre, Pa.; R. P. Bunnell, executrix. Electric heater. No. 1,346,793; July 13; v. 276; p. 352.

Bunting Brass & Bronze Company, The. (See Donaldson, Augustus F., assignor.)

Bunting, Homer C., Cleveland, Ohio. Combination roof-strap and rivet-cleat. No. 1,362,557; Dec. 14; v. 281; p. 360.

Bunyan Manufacturing Company, The. (See Graham and Bunyan, assignors.)

Bunyan, William J. (See Graham and Bunyan.)

Buraky, John, Windsor, Ontario, Canada. Toilet-cabinet. No. 1,354,240; Sept. 28; v. 278; p. 637.

Burbank, Joseph W., Albany, N. Y. Spraying attachment. No. 1,337,589; Apr. 20; v. 273; p. 492.

Burbey, George A., assignor of one-third to C. D. Gifford and one-third to L. J. Distad, Spokane, Wash. Box. No. 1,333,155; Mar. 9; v. 272; p. 238.

Burbridge, Richard, Allison, Iowa. Oscillating bob-knee for sleigh-runners. No. 1,348,347; Aug. 3; v. 277; p. 43.

Burby, John M., Webster, Mass. Repulping old or waste paper. No. 1,327,590; Jan. 6; v. 270; p. 138.

Burch Plow Works Co., The. (See Remy, John F., assignor.)

Burch, Edwin, Baltimore, Md. Razor-wiper. No. 1,334,886; Mar. 23; v. 272; p. 671.

Burch, Edwin, Baltimore, Md. Fender. No. 1,336,277; Apr. 6; v. 273; p. 108.

Burch, Henry K., Miami, Ariz. Hoisting apparatus. No. 1,334,220; Mar. 16; v. 272; p. 498.

Burch, Maston A., Cass, Ind. Bearing-scraper. No. 1,336,885; Apr. 13; v. 273; p. 284.

Burch, William H., St. Louis, Mo. Automobile-indicator. No. 1,352,874; Sept. 14; v. 278; p. 262.

Burch, Willie, Lowell, assignor of one-third to A. Marley and one-third to F. Halpin, Grand Rapids, Mich. Railway-tie. No. 1,344,676; June 29; v. 275; p. 848.

Burchell, Alice, Mayfield, England. Child's combination-cot adaptable as play-pen, &c. No. 1,354,088; Sept. 28; v. 278; p. 607.

Burchett, Walter J., East Orange, assignor to Slocum, Avram & Slocum Laboratories, Inc., Newark, N. J. Electromechanical switch. No. 1,339,844; May 11; v. 274; p. 299.

Burchett, Walter J., East Orange, assignor to Slocum, Avram & Slocum Laboratories, Inc., Newark, N. J. Electromechanical switch. No. 1,339,845; May 11; v. 274; p. 299.

Burchfield, Clarence E., Big Stone Gap, Va. Insect-destroyer. No. 1,332,800; Mar. 2; v. 272; p. 119.

Burd, Charles. (See Burd, George and C.)

Burd, George and C., Detroit, Mich. Air-compresser pump. No. 1,346,699; July 13; v. 276; p. 333.

Burd High Compression Ring Company. (See Burd, Roy L., assignor.)

Burd, Roy L., assignor to Burd High Compression Ring Company, Rockford, Ill. Piston-ring. No. 1,356,258; Oct. 19; v. 279; p. 449.

Burda, Anton, Racine, Wis. Smoke-consumer. No. 1,357,441; Nov. 2; v. 280; p. 45.

Burden, Dan, Lancaster, Ohio. Adjustable bearing. No. 1,362,163; Dec. 14; v. 281; p. 283.

Burden, Everett, East Liverpool, Ohio. Glove. No. 1,358,823; Nov. 16; v. 280; p. 423.

Burden, Everett, East Liverpool, Ohio. Glove. No. 1,358,824; Nov. 16; v. 280; p. 423.

Burden, Walter F., Victoria, British Columbia, Canada. Calcimine. No. 1,359,228; Nov. 16; v. 280; p. 500.

Burdette, James C., assignor to Dryden Rubber Company, Chicago, Ill. Material used in rubber manufacture. No. 1,363,229; Dec. 28; v. 281; p. 586.

Burdick, Charles A., Kenosha, Wis. Ink-bottle attachment. No. 1,343,960; June 22; v. 275; p. 642.

Burdick, Charles L., Sheffield, Ala. Process of and apparatus for treating gas mixtures containing oxids of nitrogen. No. 1,339,494; May 11; v. 274; p. 232.

Burdick, Orlo D., Hartford, Conn. Dishpan-support. No. 1,338,486; Apr. 27; v. 273; p. 781.

Burdick Pump Company. (See Burdick, Thomas, assignor.)

Burdick, Thomas, Murray, assignor to Burdick Pump Company, Price, Utah. Pump. No. 1,332,540; Mar. 2; v. 272; p. 70.

Burdick, Winthrop. (See Moore, George L., assignor.)

Buresch, Edward G., assignor of one-half to Otto J. Buresch and one-half to Charles A. Bitza, Chicago, Ill. Electrical testing instrument. No. 1,363,491; Dec. 28; v. 281; p. 633.

Buresch, Otto J., *et al.* (See Buresch, Edward G., assignor.)

Buresch, William W., Baltimore, Md. Bottle-capping tool. No. 1,353,718; Sept. 21; v. 278; p. 489.

Buresch, William W., Baltimore, Md. Bottle-capping tool. No. 1,353,719; Sept. 21; v. 278; p. 489.

Burfeind, Raymond H., Chicago, Ill., assignor, by mesne assignments, to Automatic Electric Company. Non-grounded or metallic line-circuit system. No. 1,330,999; Feb. 17; v. 271; p. 411.

Burgard, Henry, New Orleans, La. Well-screen. No. 1,356,187; Oct. 19; v. 279; p. 435.

Burger, Joseph, Brooklyn, N. Y. Heel. No. 1,336,194; Apr. 6; v. 273; p. 93.

Burger, Joseph, Brooklyn, N. Y. Heel. No. 1,337,639; Apr. 20; v. 273; p. 501.

Burger, Samuel. (See Benjamin, P., and Burger.)

Burger, William A., and W. Gross, San Francisco, Calif. Spring-wheel. No. 1,344,483; June 22; v. 275; p. 745.

Burger, William J., East Cleveland, and M. E. Lange, assignors to The Warner & Swasey Company, Cleveland, Ohio. Tool or work holding device. No. 1,346,295; July 13; v. 276; p. 253.

Burgess Battery Company. (See Burgess, Charles F., assignor.)

Burgess Battery Company. (See Maisel, Lorens, assignor.)

Burgess Battery Company. (See Schulte, Walter B., assignor.)

Burgess, C. F., Laboratories. (See Weiss, Howard F., assignor.)

Burgess, Charles F., Madison, Wis., assignor to Burgess Battery Company. Battery hand-lamp. No. 1,336,067; Apr. 6; v. 273; p. 68.

Burgess, Charles O., Monmouth, Ill. Dilator. No. 1,333,961; Mar. 16; v. 272; p. 450.

Burgess, Edward W., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Manure-spreader. No. 1,328,709; Jan. 20; v. 270; p. 441.

Burgess, Edward W., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Steering mechanism for traction-engines. No. 1,328,710; Jan. 20; v. 270; p. 441.

Burgess, Edward W., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Sand-cutting machine. No. 1,330,057; Feb. 10; v. 271; p. 165.

Burgess, Edward W., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Hay-rake. No. 1,331,481; Feb. 24; v. 271; p. 519.

Burgess, Edward W., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Combined hay rake and cocker. No. 1,331,482; Feb. 24; v. 271; p. 520.

Burgess, Edward W., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Pitman connection. No. 1,334,518; Mar. 23; v. 272; p. 601.

Burgess, Edward W., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Shock-hoist. No. 1,345,068; June 29; v. 275; p. 922.

Burgess, Edward W., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Shock-hoist. No. 1,345,069; June 29; v. 275; p. 922.

Burgess, Edward W., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Grain-harvester. No. 1,345,070; June 29; v. 275; p. 922.

Burgess, Edward W., assignor, by mesne assignments, to International Harvester Company, Chicago, Ill. Steering mechanism for traction-engines. No. 1,351,741; Sept. 7; v. 278; p. 5.

Burgess, Edward W., assignor, by mesne assignments, to International Harvester Company, Chicago, Ill. Silo-packer. No. 1,354,280; Sept. 28; v. 278; p. 645.

Digitized by Google

Alphabetical list of patentees—Continued.

Burgess, Edward W., assignor, by mesne assignments, to International Harvester Company, Chicago, Ill. Corn-planter. No. 1,359,028; Nov. 16; v. 280; p. 468.
Burgess, Edward W., assignor to A. O. Smith Corporation, Milwaukee, Wis. Storage-building. No. 1,344,617; June 29; v. 275; p. 837.
Burgess, Frederick G., Brooklyn, N. Y. Eyeglasses and spectacles. No. 1,355,535; Oct. 12; v. 279; p. 267.
Burgess, Henry. (See Stevenson, C. V., and Burgess.)
Burgess, Thomas A. (See Raison, Alfred, and Burgess.)
Burgess, Tom, Corinth, Miss. Harness-hook. No. 1,350,778; Aug. 24; v. 277; p. 687.
Burgess, William N., *et al.* (See Templeton, William G., assignor.)
Burgess, William S., Marblehead, Mass., assignor to Curtiss Aeroplane and Motor Corporation. Airplane control surface operating brace. No. 1,357,950; Nov. 9; v. 280; p. 204.
Burgi, Herman, assignor of one-half to C. H. Tenney, Springfield, Mass. Automatic gas-pressure regulator. No. 1,346,529; July 13; v. 276; p. 299.
Burgon, Frederick H., Sheffield, England. Heating-stove. No. 1,333,291; Mar. 2; v. 272; p. 263.
Burgoyne, Benjamin F., New Haven, Conn. Collar-holder No. 1,350,063; Aug. 17; v. 277; p. 501.
Burgson, Stuart B., Drummond, Wis. Grappling-tongs. No. 1,356,515; Oct. 26; v. 279; p. 546.
Burkam, John. (See Helby, C. G., Burkam, Lindquist, Allen, Riggin, and Lau.)
Burke, Annie E., executrix. (See Burke, William J.)
Burke, Charles R., Tulsa, Okla. Making petrol or gasolene. No. 1,344,258; June 22; v. 275; p. 700.
Burke, Edmund. (See Buckner, H. L., and Burke.)
Burke Electric Company. (See Bennett, Allen M., assignor.)
Burke Electric Company. (See Burke, James, assignor.)
Burke, Harry C. (See Trew, James S., assignor.)
Burke, Herbert J., Essex, Ontario, Canada. Tractor-vehicle. No. 1,349,812; Aug. 17; v. 277; p. 453.
Burke & James. (See MacDowell, Glenn J., assignor.)
Burke, James, Erie, Pa., assignor to Burke Electric Company. Dynamo-electric machine. No. 1,361,136; Dec. 7; v. 281; p. 31.
Burke, James, Erie, Pa., assignor to Burke Electric Company. Dynamo-electric machine. No. 1,361,863; Dec. 7; v. 281; p. 77.
Burke, James H., Rossmoyne, Ohio. Gate. No. 1,330,843; Feb. 17; v. 271; p. 379.
Burke, James H., Sr., Rossmoyne, Ohio. Climbing toy. No. 1,332,601; Mar. 2; v. 272; p. 82.
Burke, James P., Struthers, Ohio. Fastening device for cards, calendars, &c. No. 1,328,128; Jan. 13; v. 270; p. 294.
Burke, James P., Struthers, Ohio. Fastener. No. 1,342,738; June 8; v. 275; p. 272.
Burke, James W., *et al.* (See Eichorn, Frederick C. H., assignor.)
Burke, Jesse A., Glasgow, Ky. Wheeled rake. No. 1,331,317; Feb. 17; v. 271; p. 468.
Burke, Joe, *et al.* (See La Point, Steve, assignor.)
Burke, John W., Hamilton, Ontario, Canada. Cultivator. No. 1,336,421; Apr. 13; v. 273; p. 195.
Burke, Matt, Duluth, Minn. Vessel-raising apparatus. No. 1,329,225; Jan 27; v. 270; p. 568.
Burke, Peter D., Mitchell, S. D., assignor of one-half to R. B. Piper, Sioux City, Iowa. Clevis. No. 1,333,962; Mar. 16; v. 272; p. 450.
Burke, Porteus R., *et al.* (See Theriot, Charles, assignor.)
Burke, Walter D., Springfield, Ill. Shoe. No. 1,335,156; Mar. 30; v. 272; p. 782.
Burke, Wilbur B., Cleveland, assignor to The Electric Vulcanizing Rubber Company, Akron, Ohio. Apparatus for vulcanizing rubber and making same. No. 1,339,736; May 11; v. 274; p. 279.
Burke, William J., San Francisco, Calif. Peg for violins and the like. No. 1,351,616; Aug. 31; v. 277; p. 914.
Burke, William J., deceased, Brooklyn, N. Y., A. E. Burke, executrix. Hollow wall tile. No. 1,358,055; Nov. 9; v. 280; p. 225.
Burke, William M., London, England. Machine for cutting up meat and other substances. No. 1,328,226; Jan. 13; v. 270; p. 314.
Burkeman, Axel H., assignor to Drico Silo Company, Minneapolis, Minn. Apparatus for making hoops. No. 1,355,649; Oct. 12; v. 279; p. 288.
Burket, Henry E., Kansas City, Mo. Rectifier system. No. 1,327,521; Jan. 6; v. 270; p. 120.
Burkett, John W., assignor to The Burkett Manufacturing Company, Columbus, Ohio. Corn-husker. No. 1,329,752; Feb. 3; v. 271; p. 76.
Burkett Manufacturing Company, The. (See Burkett, John W., assignor.)
Burkett, Samuel E., Pitcairn, Pa. Scrubbing-brush. No. 1,355,650; Oct. 12; v. 279; p. 288.
Burkhalter, Fred C., administrator. (See Huey, Sidney B.)
Burkhardt, Curt R., Teaneck, assignor of one-half to J. A. Scharwath, Elizabeth, N. J. Press for making concrete slabs. No. 1,332,457; Mar. 2; v. 272; p. 54.
Burkhart, A. C., *et al.* (See Jochumsen, J., and Netcott, assignors.)
Burkheiser, Adam C. (See King, B. W., and Burkheiser.)
Burkholder, John H., assignor to Elite Manufacturing Company, Ashland, Ohio. Jack. No. 1,335,479; Mar. 30; v. 272; p. 842.
Burkle, Emil F. (See Motsenbocker, James A., assignor.)
Burkley, Frank J., Omaha, Nebr. Envelop-feeder. No. 1,329,108; Jan. 27; v. 270; p. 546.
Burleigh, Edward L. (See Patten, R. W., Davis, and Burleigh.)
Burleigh, Paul B., Omaha, Nebr. Toothbrush. No. 1,327,807; Jan. 13; v. 270; p. 235.
Burlew, Gilderoy O., Newark, N. J. Dental abrasive or grinding disk. No. 1,355,888; Oct. 19; v. 279; p. 376.
Burley, Gilderoy O., Newark, N. J. Dental separating or grinding disk. No. 1,350,002; Aug. 17; v. 277; p. 489.
Burlingame, Albert C., Minneapolis, Minn. Fruit-jar and bottle lifter. No. 1,337,540; Apr. 20; v. 273; p. 483.
Burlingham, Charles H., Manlius, N. Y. Cooking utensil. No. 1,361,364; Dec. 7; v. 281; p. 77.
Burlingham, William, assignor to Engineering Products Corporation, Newport News, Va. Duplex-acting percussive boiler-tube cleaner. No. 1,339,098; May 4; v. 274; p. 84.
Burlingham, William, assignor to Engineering Products Corporation, Newport News, Va. Compound pneumatic impact-tool. No. 1,344,170; June 22; v. 275; p. 683.
Burlingham, William, assignor to Engineering Products Corporation, Newport News, Va. Pneumatic impact-tool. No. 1,357,312; Nov. 2; v. 280; p. 21.
Burman, Frank V., Marine City, Mich. Drying apparatus. No. 1,336,422; Apr. 13; v. 273; p. 195.
Burman, Olaf S., Minneapolis, Minn. Boiler-stand. No. 1,346,875; July 20; v. 276; p. 426.
Burn, John F., Newcastle-upon-Tyne, and F. W. Turner, West Hartlepool, assignors to Winget Limited, London, England. Machine for molding concrete or like substances. No. 1,334,928; Mar. 23; v. 272; p. 680.
Burn, Thomas W., New York, N. Y. Carpet and rug fastener. No. 1,348,149; Aug. 3; v. 277; p. 3.
Burne, James C., Westford, Mass., assignor to Monroe Calculating Machine Company, New York, N. Y. Attachment to adding machines. No. 1,358,517; Nov. 9; v. 280; p. 317.
Burner, William L., assignor to Kilbourne and Jacobs Manufacturing Company, Columbus, Ohio. Dump-car. No. 1,330,977; Feb. 17; v. 271; p. 407.
Burner, William L., J. H. Cotton, and A. D. Booth, assignors to The Kilbourne and Jacobs Manufacturing Company, Columbus, Ohio. Dump-car. No. 1,330,978; Feb. 17; v. 271; p. 407.
Burnett, Albert E. (See Burnett, Cuthbert, and A. E.)
Burnett, Charley, assignor of one-fourth to H. G. Coffman and one-fourth to L. C. Coffman, Washington Court-house, Ohio. Hog-feeder. No. 1,344,789; June 29; v. 275; p. 870.
Burnett, Cuthbert and A. E., Trowbridge, England. Manufacture of rubber tires of the solid or band type. No. 1,351,156; Aug. 31; v. 277; p. 821.
Burnett, Ira A., Chicago, Ill. Gold-saving receptacle. No. 1,340,213; May 18; v. 274; p. 426.
Burnett, Ira A., Chicago, Ill. Equestrian toy vehicle. No. 1,345,578; July 6; v. 276; p. 49.
Burnett, Ira A., Chicago, Ill. Moistening attachment for dental-engine handpieces. No. 1,345,579; July 6; v. 276; p. 50.
Burnett, John P., Oak Park, assignor to Ad-Photoscope Company, Inc., Chicago, Ill. Motion-picture machine. No. 1,341,108; May 25; v. 274; p. 667.
Burnett-Larsh Manufacturing Company, The. (See Eisenhauer, Charles P., assignor.)
Burnett-Larsh Manufacturing Company, The. (See Larsh, Everett P., assignor.)
Burnett, Rex C., Raleigh, Ill. Heater for carbureters. No. 1,344,021; June 22; v. 275; p. 654.
Burnett, Richard W., Albany, N. Y. Car-roof. No. 1,351,411; Aug. 31; v. 277; p. 873.
Burnett, Richard W., Chicago, Ill. Car-roof. No. 1,360,092; Nov. 23; v. 280; p. 717.
Burney, Charles D., Alresford, England. Apparatus for offense or defense against submerged or partially-submerged obstructions. No. 1,358,358; Nov. 9; v. 280; p. 285.
Burney, Charles D., Alresford, England. Cutter for use on towed bodies. No. 1,358,359; Nov. 9; v. 280; p. 286.
Burney, Charles D., Alresford, England. Towed body. No. 1,358,360; Nov. 9; v. 280; p. 286.
Burnham, Donald C. (See Porter, Robert S., assignor.)
Burnham, George A., Saugus, Mass. Vaporizer. No. 1,356,188; Oct. 19; v. 279; p. 436.
Burnham, George A., Saugus, assignor to S. B. Condit, Jr., Brookline, Mass. Electric switch or circuit-breaker. No. 1,337,995; Apr. 27; v. 273; p. 638.
Burnham, George A., Saugus, assignor to S. B. Condit, Jr., Brookline, Mass. No-voltage release attachment for electric switches. No. 1,343,961; June 22; v. 275; p. 642.
Burnham, George A. Saugus, assignor to S. B. Conduit, Jr., Brookline, Mass. Time-limit relay. No. 1,357,681; Nov. 2; v. 280; p. 91.

Digitized by Google

Burnham, George B., Berkeley, Calif. Obtaining potassium salts from liquids containing same. No. 1,328,416; Jan. 20; v. 270; p. 386.
Burnham, George B., Berkeley, Calif. Obtaining potassium salts from saline waters. No. 1,328,417; Jan. 20; v. 270; p. 386.
Burnham, George B., Berkeley, Calif. Recovering potassium sodium sulfate and other potassium salts from saline waters. No. 1,328,418; Jan. 20; v. 270; p. 386.
Burnham, George B., Borosolvay, Calif. Recovering borax from saline waters. No. 1,328,614; Jan. 20; v. 270; p. 424.
Burnham, Hall H., *et al.* (See Williamson, George W., assignor.)
Burnham, Joseph L., Schenectady, N. Y., assignor to General Electric Company. Barrier or arc-deflector for dynamo-electric machines or the like. No. 1,331,897; Feb. 24; v. 271; p. 599.
Burnham, Julia E., *et al.* (See Williamson, George W., assignor.)
Burnham, Lincoln, Urbana, Ohio. Meter. No. 1,338,852; May 4; v. 274; p. 37.
Burnham, William A., Irvington, N. Y. Sash-operating mechanism. No. 1,338,671; May 4; v. 274; p. 4.
Burns, Archibald E. (See Friendly, Herbert M., and Burns.)
Burns, Eugene A., East Brookfield, assignor of one-half to C. A. Derr, Worcester, Mass. Shoe-form. No. 1,330,428; Feb. 10; v. 271; p. 234.
Burns, Francis E., Los Angeles, Calif. Pipe cleaner and sprayer. No. 1,351,368; Aug. 31; v. 277; p. 865.
Burns, James F., Los Angeles, Calif. Trolley-wheel. No. 1,362,390; Dec. 14; v. 281; p. 327.
Burns, James F., assignor to V. V. Fittings Company, Philadelphia, Pa. Safety device for electric switches. No. 1,357,762; Nov. 2; v. 280; p. 107.
Burns, John A., assignor of one-half to C. Ginter, Jr., New Haven, Conn. Implement-holder for cooking utensils. No. 1,327,982; Jan. 13; v. 270; p. 267.
Burns, Peter M., San Francisco, Calif. Wire-twister. No. 1,334,221; Mar. 16; v. 272; p. 498.
Burns, Rea C., Cedarville, Ohio. Means for providing a border on photographic films. No. 1,335,089; Mar. 30; v. 272; p. 769.
Burns, Robert L. (See Gee, E., and Burns.)
Burns, Robert L., Taft, assignor of one-half to C. E. Stratton, Los Angeles, Calif. Drill-stem. No. 1,344,221; June 22; v. 275; p. 693.
Burns, Robert L., and F. F. Winger, Taft, assignors to Standard Oil Company, San Francisco, Calif. Sucker-rod attachment to prevent sanding up of well-pumps. No. 1,327,611; Jan. 13; v. 270; p. 198.
Burns, Thomas J., Syracuse, N. Y. Window-shade. No. 1,352,350; Sept. 7; v. 278; p. 122.
Burns, Walter G., Fort Wayne, Ind. Driving mechanism for ore-concentrators. No. 1,353,451; Sept. 21; v. 278; p. 434.
Burns, Walter G., Fort Wayne, Ind., assignor to Tokheim Oil Tank and Pump Company. Dispensing-pump. No. 1,344,985; June 29; v, 275; p. 906.
Burns, William C., Albany, Oreg. Instep-support. No. 1,336,278; Apr. 6; v. 273; p. 108.
Burnum, Starr H. (See Curry, Malcolm, assignor.)
Burnwatt, William W., and G. W. Hauschild, Los Angeles, Calif. Garden-hose holder. No. 1,337,541; Apr. 20; v. 273; p. 483.
Burofsky, Joseph, Philadelphia, Pa. Lifting apparatus. No. 1,345,992; July 6; v. 276; p. 131.
Burr, Frederick P., Middletown, Conn. Bath and shampooing compound. No. 1,360,093; Nov. 23; v. 280; p. 717.
Burr, Harry M., Middletown, and G. J. Ingraham, West Hartford, assignors to The Omo Mfg. Co., Middletown, Conn. Insulating, waterproof sole for use on boots and shoes. No. 1,347,775; July 27; v. 276; p. 662.
Burrage, George H. (See Stephenson, Leigh J., assignor.) (Reissue.)
Burrell, D. H., & Co. (See Dalzell, Charles B., assignor.)
Burrell, D. H., & Co. (See Lane, Frederic A., assignor.)
Burri, Konrad, Herisau, and F. Sommer, Arbon, Switzerland. Device for ascertaining the thread tension on embroidery-machine shuttles. No. 1,363,836; Dec. 28; v. 281; p. 700.
Burridge, Francis O., executor. (See Burridge, Lee S.)
Burridge, Lee S., deceased; F. O. Burridge executor, assignor, by mesne assignments, to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,339,806; May 11; v. 274; p. 292.
Burridge, Lee S., deceased; F. O. Burridge, executor, assignor, by mesne assignments, to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,351,993; Sept. 7, v. 278; p. 56.
Burrill, John R. (See Turner, L. P., and Burrill.)
Burris, Matthew G., Dartmouth, Nova Scotia, Canada. Filter. No. 1,331,237; Feb. 17; v. 271; p. 454.
Burriss, John A., Des Moines, Iowa. Toy. No. 1,363,307; Dec. 28; v. 281; p. 598.
Burritt, F. R., *et al.* (See Johnson, Albert S., assignor.)
Burroughs Adding Machine Company. (See Gooch, Claiborne W., assignor.)
Burroughs Adding Machine Company. (See Horton, Allen A., assignor.)
Burroughs Adding Machine Company. (See Pasinski, Walter J., assignor.)
Burroughs Adding Machine Company. (See Wing, Roy E., assignor.)
Burroughs, Arthur S. (See Dutro, O. V., and Burroughs.)
Burroughs, Charles F., East Orange, N. J., assignor to Composition Machinery Corporation, Newark, N. J. Press for mounting sound-matrices. No. 1,328,264; Jan. 20; v. 270; p. 357.
Burroughs, Charles F., East Orange, assignor to Composition Machinery Corporation, Newark, N. J. Means for holding impression-plates upon heater-beds. No. 1,346,876; July 20; v. 276; p. 426.
Burroughs, Charles F., East Orange, assignor to Composition Machinery Corporation, Newark, N. J. Filler-cap for receptacles. No. 1,346,877; July 20; v. 276; p. 426.
Burrowes, E. T., Company, The. (See Russell, Harry H., assignor.)
Burrowes, Edward T., *et al.* (See Davis, G. H., and Griffin, assignors.)
Burrows, Allen, Los Angeles, Calif. Wall-molding hanger for bird-cages, &c. No. 1,347,009; July 20; v. 276; p. 453.
Burrows, Arba G., Jackson, Ala. Well-bucket bottom. No. 1,333,793; Mar. 16; v. 272; p. 418.
Burrows, Charles H., assignor to Adolph Nikodym, Minneapolis, Minn. Rope-measuring machine. No. 1,362,843; Dec. 21; v. 281; p. 467.
Burrows, Charles W., Washington, D. C. Relay. No. 1,329,578; Feb. 3; v. 271; p. 44.
Burrows, Charles W., Washington, D. C. Electromagnetic device. No. 1,340,698; May 18; v. 274; p. 518.
Burrows, Linus P., Ottawa, Ontario, Canada. Treating silver ores. No. 1,355,795; Oct. 12; v. 279; p. 316.
Burrows, Robert J., assignor to Clark Equipment Company, Buchanan, Mich. Internal-gear drive-axle for motor-vehicles. No. 1,334,279; Mar. 23; v. 272; p. 556.
Burrows, Robert J., assignor to Clark Equipment Company, Buchanan, Mich. Propeller-shaft bearing for motor-vehicles. No. 1,335,040; Mar. 30; v. 272; p. 760.
Burrows, Robert J., assignor to Clark Equipment Company, Buchanan, Mich. Internal-gear-drive axle. No. 1,354,462; Oct. 5; v. 279; p. 3.
Burrows, Robert P. (See Doane, Burrows, and Sinclair.) **(Reissue.)**
Burrows, Robert W., Petaluma, assignor to Hobbs Wall & Co., San Francisco, Calif. Veneer slicing and scoring machine. No. 1,327,983; Jan. 13; v. 270; p. 267.
Burrows, Sidney V., Chicago, Ill. Worm-press. No. 1,344,790; June 29; v. 275; p. 870.
Burrows, William E., and W. A. Spangler, St. Joseph, Mo. Engine-starter. No. 1,327,753; Jan. 13; v. 270; p. 225.
Burruss, Albert E., Norfolk, Va. Inkstand. No. 1,334,078; Mar. 16; v. 272; p. 472.
Burry, Vincent J., assignor to Joliet Railway Supply Company, Chicago, Ill. Side bearing for cars. No. 1,344,858; June 29; v. 275; p. 883.
Burry, Vincent J., assignor to Joliet Railway Supply Company, Chicago, Ill. Side bearing for cars. No. 1,344,859; June 29; v. 275; p. 883.
Burson, Wilson W., assignor to B. Z. B. Knitting Co., Rockford, Ill. Knitting-machine. No. 1,333,156; Mar. 9; v. 272; p. 238.
Burson, Wilson W., assignor to B. Z. B. Knitting Co., Rockford, Ill. Knitting-machine. No. 1,333,157; Mar. 9; v. 272; p. 238.
Burstall, Frederic W., Selly Park, Birmingham, England. Utilization of exhaust heat from internal-combustion engines. No. 1,359,447; Nov. 16; v. 280; p. 544.
Burstall, William H., and W. Adamson, Oxnard, Calif. Sucker-rod elevator. No. 1,341,166; May 25; v. 274; p. 678.
Burt, F. N., Company. (See Schelble, William, assignor.)
Burt, Harvey A., and F. H. Wiley, Boulder, Colo. Electric governor. No. 1,333,385; Mar. 9; v. 272; p. 281.
Burt, James A. (See Mors, F. E., and Burt.)
Burt, William, Sr. (See Goldsmith, B. B., and Burt.)
Burt, William, Sr. (See Goldsmith, B. B., Burt, and Barker.)
Burtis, Albert C., Mount Vernon, N. Y. Match-holding attachment for commercial tobacco-boxes. No. 1,341,295; May 25; v. 274; p. 703.
Burton, Charles, Paddington, and R. A. Shaw, Roseville, New South Wales, Australia. Folding bed. No. 1,360,983; Nov. 30; v. 280; p. 959.
Burton, Charles S., Oak Park, Ill. Reading-light. No. 1,333,830; Mar. 16; v. 272; p. 425.
Burton, Charles S., Oak Park, Ill. Rebound-check for vehicles. No. 1,337,996; Apr. 27; v. 273; p. 638.
Burton, Charles S., Oak Park, Ill. Connector for bed or seat spring structures. No. 1,347,989; July 27; v. 276; p. 703.
Burton, Charles S., Oak Park, Ill. Container for muscle-rolls and the like. No. 1,350,701; Aug. 24; v. 277; p. 672.
Burton, Charles S., Oak Park, assignor to Standex Manufacturing Corporation, Chicago, Ill. Crank-case-oil-level governor. No. 1,330,236; Feb. 10; v. 271; p. 198.
Burton, Charles S., Oak Park, assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Vacuum fuel-feed device. No. 1,348,084; July 27; v. 276; p. 728.

Digitized by Google

Alphabetical list of patentees—Continued.

Burton, Charles W., Salt Lake City, Utah. Track-laying machine. No. 1,354,533; Oct. 5; v. 279; p. 17.
Burton, Frank F., Mount Carmel, assignor to Winchester Repeating Arms Co., New Haven, Conn. Leaf-sight for firearms. No. 1,338,121; Apr. 27; v. 273; p. 662.
Burton, Garry K., and W. H. Stolpe, Topeka, Kans. Crank-pin rounding and truing tool. No. 1,333,605; Mar. 16; v. 272; p. 383.
Burton, George W., Providence, R. I. Locking device. No. 1,349,491; Aug. 10; v. 277; p. 317
Burton, Isaac F., Philadelphia, Pa. Friction-support for lids. No. 1,343,347; June 15; v. 275; p. 456.
Burton, Isaac F., Philadelphia, Pa., assignor to Victor Talking Machine Company. Sound-box for sound recording and reproducing machines. No. 1,350,590; Aug. 24; v. 277; p. 651.
Burton, John L, Hamlet, N. C. Switch-lock. No. 1,345,580; July 6; v. 276; p. 50.
Burton, John N., Great Kills, N. Y. Pie trimmer and crimper. No. 1,356,692; Oct. 26; v. 279; p. 580.
Burton Page Company, The. (See Frimand, Peter A., assignor.)
Burton, Thomas H., Chicago, Ill., assignor to De Pere-Burton Company, Milwaukee, Wis. Baffle-plate for boilers. No. 1,334,937; Mar. 23; v. 272; p. 682.
Burton, Thomas L., St. Louis, Mo. Brake-beam support. No. 1,340,008; May 11; v. 274; p. 330.
Burton, Thomas L., St. Louis, Mo. Brake-beam support. No. 1,340,009; May 11; v. 274; p. 330.
Burton, Thomas L., St. Louis, Mo. Brake-beam support. No. 1,340,010; May 11; v. 274; p. 330.
Burton, Thomas L., assignor to The American Brake Company, St. Louis, Mo. Brake-hanger. No. 1,328,315; Jan. 20; v. 270; p. 367.
Burton, Thomas L., assignor to American Brake Company, St. Louis, Mo. Metal brake-beam. No. 1,340,007; May 11; v. 274; p. 330.
Burton, Thomas L., assignor to The American Brake Company, St. Louis, Mo. Brake-head adjuster. No. 1,349,407; Aug. 10; v. 277; p. 301.
Burton, William H., and C. J. Wilkerson, East St. Louis, Ill. Aerial-mail exchange. No. 1,338,970; May 4; v. 274; p. 59.
Burton, William M. (See Humphreys, R. E., and Burton.)
Burtt, Frank, Kalamazoo, Mich., assignor to Evansville Arbor Press Company, Evansville, Ind. Mandrel-press. No. 1,356,905; Oct. 26; v. 279; p. 622.
Busby, Alvin C., Ellensburg, Wash. Folding camp-iron. No. 1,329,955; Feb. 3; v. 271; p. 114.
Busby, Charles C., assignor to H. L. Hammond, Indianapolis, Ind. Adjustable piston for engines. No. 1,358,825; Nov. 16; v. 280; p. 424.
Busby, Harley S., assignor to Western Hog Oiler Company, Inc., Washington, Iowa. Heater. No. 1,328,419; Jan. 20; v. 270; p. 386.
Busby, Lu Ella, Caldwell, Kans. Heater for poultry-houses. No. 1,345,581; July 6; v. 276; p. 50.
Busby, William D. L., Clifton-upon-Dunsmore, England. Waterproof protector for ladies' hats. No. 1,331,142; Feb. 17; v. 271; p. 437.
Busch-Sulzer Bros.-Diesel Engine Company. (See Hawks, Arthur S., assignor.)
Busch-Sulzer Bros.-Diesel Engine Company. (See Hentschke, Paul, assignor.)
Busch-Sulzer Bros.-Diesel Engine Company. (See Müller, Jakob, assignor.)
Busch-Sulzer Bros.-Diesel Engine Company. (See Pfeffer, Oscar W., assignor.)
Busch-Sulzer Bros.-Diesel Engine Company. (See Rotter, Max, assignor.)
Busch-Sulzer Bros.-Diesel Engine Company. (See Zhindon, Eugen, assignor.)
Buschardt, William F., Baltimore, Md. Plant-supporting clip. No. 1,338,612; Apr. 27; v. 273; p. 754.
Buscher, John H., Washington, D. C. Producing lithographic inserts. No. 1,347,010; July 20; v. 276; p. 453.
Buscher, Theodore W. (See Kadish and Buscher.)
Buschmeyer, Clarence R., assignor to J. Q. and W. C. Sherman, Dayton, Ohio. Rotary punch. No. 1,333,704; Mar. 16; v. 272; p. 402.
Bush, Alden J., Columbus, Ohio. Dental chart. No. 1,338,068; Apr. 27; v. 273; p. 652.
Bush, Charles F., assignor of one-eighth to C. H. Woertz, Philadelphia, Pa. Compass-observing apparatus. No. 1,332,462; Mar. 2; v. 272; p. 55.
Bush, Eugene, S., Pendleton, Oreg. Automatic plumb-bob. No. 1,357,270; Nov. 2; v. 280; p. 13.
Bush, Vannevar, assignor to American Radio & Research Corporation, Medford, Mass. Transformer. No. 1,342,250; June 1; v. 275; p. 125.
Bushell, Ernest E., and M. E. Conkling, Lawton, Okla. Dispensing-machine. No. 1,340,822; May 18; v. 274; p. 541.
Bushey, Eli J., New York, N. Y. Spring suspension for vehicles. No. 1,347,494; July 27; v. 276; p. 605.
Bushnell, Alvah, Jr., Philadelphia, Pa. Card-holder for envelops and wallets. No. 1,345,993; July 6; v. 276; p. 13?.
Bushnell, James E., Cold Springs, N. Y., assignor to Hyatt Roller Bearing Company, Harrison, N. J. Mounting for car-axle boxes. No. 1,355,639; Oct. 12; v. 279; p. 287.
Bushnell, James E., Cold Springs, N. Y., assignor to Hyatt Roller Bearing Company, Harrison, N. J. Car-axle mounting. No. 1,358,056; Nov. 9; v. 280; p. 225.
Bushong, Ivan C., Ottawa, Kans. Base construction for steel towers. No. 1,334,519; Mar. 23; v. 272; p. 601.
Businger, Emil F., New York, N. Y. Stop mechanism for looms. No. 1,363,492; Dec. 28; v. 281; p. 633.
Busk, Anthony S., Woodhaven, assignor to R. Hoe and Co., New York, N. Y. Printing-machine. No. 1,339,099; May 4; v. 274; p. 84.
Buskard, Samuel G., Hamilton, Ontario, assignor, by mesne assignments, of one-half to R. E. T. Pringle Limited, Toronto, Canada. Universal grinding-machine. No. 1,338,355; Apr. 27; v. 273; p. 707.
Busko, Joseph E., Pittsburgh, Pa., assignor to Safety First Supply Company. Ladder-foot. No. 1,354,166; Sept. 28; v. 278; p. 622.
Buss, Adolph W., Quincy, Ill. Interchangeable road-sign. No. 1,343,247; June 15; v. 275; p. 437.
Buss, Charles and I. C. W., Pittsburgh, Pa. Railway-tie. No. 1,342,420; June 8; v. 275; p. 211.
Buss, Ivan C. W. (See Buss, Charles and I. C. W.)
Busse, Fred W., Louisville, Ill. Eaves-trough or gutter-cover. No. 1,349,264; Aug. 10; v. 277; p. 273.
Bussey, William H., Minneapolis, Minn. Egg-shipping case. No. 1,355,810; Oct. 19; v. 279; p. 360.
Busskohl, Dick F., Pedro, S. D. Animal-poke. No. 1,332,484; Mar. 2; v. 272; p. 59.
Buster Manufacturing Company. (See Case, Homer W., assignor.)
Buswell, Walter, assignor to Stokes & Smith Company, Philadelphia, Pa. Box-covering blank. No. 1,343,193; June 15; v. 275; p. 428.
Butchart, William A., Denver, Colo. Tilting mechanism for concentrating-tables. No. 1,345,662; July 6; v. 276; p. 66.
Butcher, James H., Louisville, Ky. Amusement apparatus. No. 1,337,820; Apr. 20; v. 273; p. 535.
Butcher, James M., Chicago, Ill., and E. B. Funston, Racine, Wis. Alarm mechanism. No. 1,331,694; Feb. 24; v. 271; p. 560.
Butcher, James M., assignor, by mesne assignments, to Marshall Dobbins & Co., Chicago, Ill. Door-knob alarm. No. 1,327,021; Jan. 6; v. 270; p. 27.
Butcher, James M., assignor to Sentinel Alarm Co., Chicago, Ill. Alarm mounting and actuator. No. 1,356,259; Oct. 19; v. 279; p. 450.
Butcher, Robert, Joliet, Ill. Dump-car. No. 1,363,562; Dec. 28; v. 281; p. 647.
Butcher, William L., Flora, Ind. Fence-gate. No. 1,346,395; July 13; v. 276; p. 272.
Butera, Mike. (See Salia, T., and Butera.)
Buth, Archie C., Alleman, Iowa. Self-feeder. No. 1,337,436; Apr. 20; v. 273; p. 462.
Butler, Charles H. (See Peirson, C. H., and Butler.)
Butler, Charlton F., Meggett, S. C. Draft appliance for automobiles. No. 1,355,640; Oct. 12; v. 279; p. 287.
Butler, Clinton C., Anoka, Minn. Power-converter. No. 1,329,037; Jan. 27; v. 270; p. 532.
Butler, Clyde G. (See Moore, H. C., and Butler.)
Butler, David H., Edgewood, assignor to The Inlaid Company, Providence, R. I. Embroidery-needle. No. 1,357,687; Nov. 2; v. 280; p. 92.
Butler Elliptical Wrench Manufacturing Company. (See Butler, William A., assignor.)
Butler, Frank L., Chicago, Ill. Electrical fixture. No. 1,347,531; July 27; v. 276; p. 612.
Butler, Glenn, *et al.* (See Otto, A. and W., assignors.)
Butler, Glenn, *et al.* (See Otto, Albert and W., assignors.)
Butler, Jacob D., Northampton, Mass. Interlocked flooring. No. 1,334,222; Mar. 16; v. 272; p. 498.
Butler, James A., Needham, Mass. Trimming-machine. No. 1,339,807; May 11; v. 274; p. 292.
Butler, James A., Needham, Mass. Fiber-mixing machine. No. 1,359,029; Nov. 16; v. 280; p. 463.
Butler, James L. (See Converse, F. B., and Butler.)
Butler, John. (See Cook, W., Butler, and Griffiths.)
Butler, Junius W., assignor of one-half to J. A. Barker, Roseboro, N. C. Cut-off for water systems. No. 1,356,962; Oct. 26; v. 279; p. 633.
Butler, Lamar, Darien, Conn. Automatic battery-refilling device. No. 1,354,800; Oct 5; v. 279; p. 71.
Butler, Leon E., Chicago, Ill. Molding device. No. 1,351,157; Aug. 31; v. 277; p. 822.
Butler, Leonard F. G. (See Fedden, A. H. R., and Butler.)
Butler, Leonard F. G., assignor of one-third to A. H. R. Fedden and one-third to Cosmos Engineering Company Limited, Bristol, England. Balancing engines. No. 1,340,823; May 18; v. 274; p. 541.
Butler, Nathan C., Cleveland, Ohio. Measuring device. No. 1,345,071; June 29; v. 275; p. 923.
Butler, Robert T., and H. E. Thompson, Flushing, Ohio. Switch-stand. No. 1,348,848; Aug. 10; v. 277; p. 191.
Butler, Silas E., assignor to The Gross Photo Supply Company, Toledo, Ohio. Corner-holder for photographs or the like. No. 1,356,693; Oct. 26; v. 279; p. 581.
Butler, Walter A., Troy, and A. V. Cooper, Amboy, N. Y. Practice-keyboard. No. 1,328,818; Jan. 27; v. 270; p. 490.

Digitized by Google

Butler, Ward, Chicago, Ill. Bomb-throwing machine. No. 1,344,378; June 22; v. 275; p. 724.
Butler, William A., assignor, by mesne assignments, to Butler Elliptical Wrench Manufacturing Company, Indianapolis, Ind. Ratchet-wrench. No. 1,359,325; Nov. 16; v. 280; p. 519.
Butler, William H., New York, N. Y. Apparatus for displaying units and quotations, news, and advertising. No. 1,356,260; Oct. 19; v. 279; p. 450.
Butler, William M., Syracuse, N. Y. Furnace. No. 1,336,675; Apr. 13; v. 273; p. 243.
Bütow, Paul E., Brooklyn, N. Y. Diaphragm. No. 1,334,435; Mar. 23; v. 272; p. 586.
Butman, Lewis F., Randolph, and C. E. Bixby, Barre, Vt. Milk cooler and strainer. No. 1,346,937; July 20; v. 276; p. 438.
Butterfield, Andrew M., Bath, Me. Drafting-macnine. No. 1,360,496; Nov. 30; v. 280; p. 864.
Butterfield, Arthur W. and S., and A. Nield, Oldham, England. Safety-razor. No. 1,331,483; Feb. 24; v. 271; p. 520.
Butterfield, Lewis A., assignor to the Belcher & Taylor Agricultural Tool Company, Chicopee Falls, Mass. Snapping-rolls for corn-husking machines. No. 1,339,737; May 11; v. 274; p. 279.
Butterfield, Lewis A., assignor to The Belcher and Taylor Agricultural Tool Company, Chicopee Falls, Mass. Safety device for corn-husking machines. No. 1,358,826; Nov. 16; v. 280; p. 424.
Butterfield, Percy F., Toronto, Ontario, Canada. Nail. No. 1,326,910; Jan. 6; v. 270; p. 5.
Butterfield, Samuel. (See Butterfield, A. W. and S., and Nield.)
Butters Camp Mfg. Co., The. (See Butters, Robert H., assignor.)
Butters-Camp Mfg. Co., The. (See Camp, W. H., and Butters, assignors.)
Butters, Eleanor, Ipswich, England. Combination garment for women. No. 1,356,261; Oct. 19; v. 279; p. 450.
Butters, Frederick R. (See Lyman, C. M., and Butters.)
Butters, Robert H. (See Camp, W. H., and Butters.)
Butters, Robert H., Atlanta, Ga., assignor to The Butters Camp Mfg. Co. Machine for forming or renewing and sharpening the teeth of gin or linter saws. No. 1,329,036; Jan. 27; v. 270; p. 532.
Butters, Robert H., Atlanta, Ga., assignor to The Butters-Camp Mfg. Co. Gin or linter saw. No. 1,346,396; July 13; v. 276; p. 272.
Butters, William H., Calgary, Alberta, Canada. Automobile-jack. No. 1,340,749; May 18; v. 274; p. 527.
Butterworth, Arthur, Jr. (See Butterworth, Arthur, A., Jr., and H.)
Butterworth, Arthur, Jr., and H., Rochdale, England. Cam mechanism for operating tool-slides. No. 1,357,682; Nov. 2; v. 280; p. 91.
Butterworth, Frank W., assignor to Western Brick Company, Danville, Ill. Brick. No. 1,353,515; Sept. 21; v. 278; p. 447.
Butterworth, H. W., & Sons Company. (See Hunter, Rudolph M., assignor.)
Butterworth, H. W., & Sons Company. (See Rowley, William S., assignor.)
Butterworth, Harold. (See Butterworth, Arthur A., Jr., and H.)
Butterworth, Joseph A. (See Purnell, W. H., and Butterworth.)
Butterworth, Joseph A., assignor to Herbert Morris, Limited, Loughborough, England. Elevating-trucks. No. 1,352,426; Sept. 14; v. 278; p. 172.
Buttner, Joseph, Baltimore, Md. Safety steering device for motor-vehicles. No. 1,331,801; Feb. 24; v. 271; p. 581.
Buttress, Joseph A. (See La Casse, Henry, assignor.)
Butty, Carlos, and F. Alvo, Buenos Aires, Argentine. Product imitating china. No. 1,351,617; Aug. 31; v. 277; p. 914.
Butz, Walter D., Norristown, Pa. Cloth cutting and assembling machine. No. 1,356,262; Oct. 19; v. 279; p. 450.
Buysse, Charles E. (See Emerson, G. B., and Buysse.)
Buzz Engineering Company. (See Zoeller, W. E., and Ulrich, assignors.)
Bye, Edwin A. (See Hatcher, O. M., and Bye.)
Byerley, Carlous T., Kansas City, Mo. Retreading-vulcanizer. No. 1,356,597; Oct. 26; v. 279; p. 562.
Byerly, Dennis A., Terre Haute, Ind. Electric-light switch. No. 1,343,109; June 8; v. 275; p. 847.
Byers, Andrew C., and W. B. Fritze, Forreston, Ill. Flytrap. No. 1,335,041; Mar. 30; v. 272; p. 760.
Byers, James, Chicago, Ill. Gas-burner. No. 1,352,351; Sept. 7; v. 278; p. 122.
Byers, Joseph J., Brookline, assignor to Products Syndicate Inc., Boston, Mass. Material treated with cellulose derivatives. No. 1,327,197; Jan. 6; v. 270; p. 60.
Byers, Joseph J., Brookline, assignor to Products Syndicate, Inc., Boston, Mass. Footwear and making same. No. 1,361,961; Dec. 14; v. 281; p. 243.
Bygrave, Leonard C. (See Ward, F. M., Bygrave, and Herink.)
Bygrave, Leonard C., and T. M. Inman, assignors to The Relay Automatic Telephone Company, Limited, London, England. Telephone system. No. 1,342,792; June 8; v. 275; p. 284.
Bynoe, Frederick O., Acton, assignor to High Temperature Generators Limited, London, England. Superheater. No. 1,331,841; Feb. 24; v. 271; p. 588.
By-Products Manufacturing Company. (See Lowe, L. P., and Ruff, assignors.)
Byrd, David A., Clinton, N. C. Cultivator attachment. No. 1,334,223; Mar. 16; v. 272; p. 498.
Byrd, Don, Franklin, W. Va. Transmission-gear. No. 1,347,804; July 27; v. 276; p. 667.
Byrd, Don, Franklin, W. Va. Corn-harvester. No. 1,357,145; Oct. 26; v. 279; p. 669.
Byrd, Gordon W., Dallas, Tex. Peanut-harvester. No. 1,345,315; June 29; v. 275; p. 970.
Byrd, Hiram, Jacksonville, Fla. Individual septic tank. No. 1,334,986; Mar. 30; v. 272; p. 750.
Byrd, William, H., Sour Lake, Tex. Fire-extinguishing device. No. 1,346,099; July 6; v. 276; p. 153.
Byrne, Francis H. B., assignor to American Piano Company, New York, N. Y. Musical notation. No. 1,355,087; Oct. 5; v. 279 p. 127.
Byrne, John, San Quentin, Calif., assignor of one-half to C. Hudson, St. Louis, Mo. Safety-lock for bottles or the like. No. 1,343,962; June 22; v. 275; p. 642.
Byrne, Ralph E., Kansas City, Mo. Combination roller-bolster and stake-pocket. No. 1,334,618; Mar. 23; v. 272; p. 619.
Byrnes, James W. (See McCarthy, Florence M., assignor.)
Byrns, Odus E., Muncie, Ind., assignor of one-half to A. Tresler, Chicago, Ill. Chain-tightener attachment for bicycles. No. 1,357,540; Nov. 2; v. 280; p. 64.
Byrom, John, Liverpool, England. Violin, viola, and violoncello peg. No. 1,362,391; Dec. 14; v. 281; p. 327.
Byron, Hagar B., New York, N. Y. Optical printer. No. 1,351,618; Aug. 31; v. 277; p. 914.
Byron Jackson Iron Works, Inc. (See Paulsmeier, Albert C., assignor.)
Byron Jackson Iron Works. (See Schorr, Robert, assignor.)
Byron, Riley J., Mount Vernon, Ind. Guide-roll for paper-machines. No. 1,344,171; June 22; v. 275; p. 683.
Byshe, Ernest T., Toronto, Ontario, Canada, assignor to Greenfield Tap and Die Corporation, Greenfield, Mass. Screw-thread-diameter gage and check. No. 1,362,558; Dec. 14; v. 281; p. 360.
Bytzka, Wasyl, Helmetta, N. J. Ash-sifter. No. 1,357,610; Nov. 2; v. 280; p. 77.
C-K Co., The. (See Conover, George W., assignor.)
Cábana, Charles, Buffalo, N. Y. Ball-and-socket joint for dolls, &c. No. 1,359,030; Nov. 16; v. 280; p. 463.
Cabell, Philip M., New York, N. Y. Concrete-reinforcement. No. 1,345,663; July 6; v. 276; p. 66.
Cabell, Philip M., New York, N. Y. Concrete reinforcement. No. 1,358,518; Nov. 9; v. 280; p. 318.
Cabena, Richard H., Croydon, England. Heater or superheater for steam, air, or gases. No. 1,332,943; Mar. 9; v. 272; p. 198.
Cable Company, The. (See Hagey, James C., assignor.)
Cable Company, The. (See Johanson, Thure A., assignor.)
Cable Company, The. (See Swensen, Alfred, assignor.)
Cable, Grover C., Long Beach, Calif. Block-making machine. No. 1,344,860; June 29; v. 275; p. 883.
Cabot, Godfrey L. (See Crommett, Charles F., and O. J., assignors.)
Cabot, Godfrey L., Boston, Mass. Supply means for aircraft. No. 1,328,560; Jan. 20; v. 270; p. 214.
Cacadier, Olivier, Paris, France. Clamping-collar. No. 1,359,229; Nov. 16; v. 280; p. 500.
Caddy, Donald B. (See Dewick and Caddy.)
Cade, Charles W., Bellevue, assignor to McKinney Manufacturing Company, Pittsburgh, Pa. Door-holder. No. 1,327,754; Jan. 13; v. 270; p. 225.
Cade, King C., Burkeville, Tex. Thread-cutter. No. 1,329,365; Feb. 3; v. 271; p. 5.
Cade, Robert S., Canton, Ohio. Combination metal weather-strip and guide for window-sashes. No. 1,348,205; Aug. 3; v. 277; p. 14.
Cadeddu, Efisio, Vancouver, British Columbia, Canada. Potato-sowing machine. No. 1,334,837; Mar. 23; v. 272; p. 662.
Cadenhead, Arthur F. G. (See Goodwin, W. M., and Cadenhead.)
Cadenhead, John T., Ensley, Ala. Demountable rim. No. 1,363,952; Dec. 28; v. 281; p. 722.
Cadgene, Ernest, *et al.* (See Koch, George, assignor.)
Cadillac Motor Car Company. (See Brown, James W., assignor.)
Cadillac Motor Car Company. (See Kiethler, Frederick, assignor.)
Cadillac Motor Car Company. (See Schwarze, Herman, assignor.)
Cadillac Motor Car Company. (See Snell, Lyle K., assignor.)
Cadman, Addi B., Beloit, Wis., assignor, by mesne assignments, to Warner Manufacturing Company, South Beloit, Ill. Vehicle-coupling. No. 1,340,521; May 18; v. 274; p. 484.
Cadwallader, Ira, West Lebanon, Ind. Fastener for insulating-brackets. No. 1,335,042; Mar. 30; v. 272; p. 760.
Cadwell, John, Attica, Kans. Grain-flow regulator. No. 1,334,929; Mar. 23; v. 272; p. 680.
Cadwell, Phineas M., assignor to Cadwell & Salvers, Malvern, Iowa. Road-grading apparatus. No. 1,355,938; Oct. 19; v. 279; p. 385.

Digitized by Google

Cadwell & Salyers. (See Cadwell Phineas M., assignor.)
Cady, Charles N., Canastota, N. Y. Shaft-hanger gearing. No. 1,344,439; June 22: v. 275; p. 736.
Cady, Elisha J. (See Wyzenbeek, A., and Cady.)
Cady, Elisha J., Oak Park, Ill. Machine for saturating paper-stock. No. 1,345,747; July 6; v. 276; p. 82.
Cady, Jesse W., Belle Fourche, S. D. Beet-harvester. No. 1,354,534; Oct. 5; v. 279; p. 18.
Cady, Sherman W., Auburn, N. Y., assignor to International Harvester Company. Tandem disk harrow. No. 1,336,676; Apr. 13; v. 273; p. 244.
Cady, Sherman W., Hamilton, Ontario, Canada, assignor to International Harvester Company. Balanced-axle cultivator. No. 1,358,057; Nov. 9; v. 280; p. 225.
Cafferata & Co. (See Johnson, Frank M., assignor.)
Cafmeyer, Alexander E., Chicago, Ill. Door or window latch. No. 1,354,597; Oct. 5; v. 279; p. 30.
Cagle, William E. (See Kinney and Cagle.)
Cahill, Edmund A., Kansas City, Mo. Automatic alarm-valve. No. 1,356,598; Oct. 26; v. 279; p. 562.
Cahill, Henry D., Boston, Mass. Electric-lamp body, reflector, and shade-holder. No. 1,353,562; Sept. 21; v. 278; p. 456.
Cahill, Henry D., Boston, Mass. Electric-cluster-lamp body and shade-holder. No. 1,353,563; Sept. 21; v. 278; p. 457.
Cahill, John, Norfolk, Va. Venetian blind. No. 1,342,527; June 8; v. 275; p. 231.
Cahill, John, Norfolk, Va. Flexible curtain. No. 1,352,656; Sept. 14; v. 278; p. 218.
Cahill, Phillip J., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J. Dredge-tumbler. No. 1,349,408; Aug. 10; v. 277; p. 301.
Cahill, Thomas J., Philadelphia, Pa. Covering. No. 1,357,541; Nov. 2; v. 280; p. 64.
Cahn, Eli, *et al.* (See Textorius, Knut O. B., assignor.)
Cahn, Henry S., and H. Siskin, Los Angeles, Calif.; said Cahn assignor to said Siskin. Winding-handle for phonographs. No. 1,348,476; Aug. 3; v. 277; p. 67.
Cahusac, Clarence N., Jersey City, N. J., assignor to Universal Fixture Corporation, New York, N. Y. Display-fixture. No. 1,358,415; Nov. 9; v. 280; p. 297.
Cain, John J., Bayonne, N. J. Header for tubular boilers. No. 1,337,590; Apr. 20; v. 273; p. 492.
Cain, John J., Bayonne, N. J. Making flanged articles. No. 1,338,419; Apr. 27; v. 273; p. 718.
Caine, Marshall, Barberton, Ohio. Segment-block. No. 1,347,247; July 20; v. 276; p. 499.
Cairncross, Robert L., Chicago, Ill. Rail-anticreeper. No. 1,361,962; Dec. 14; v. 281; p. 244.
Cairns, Hugh S., Yenangyaung, Upper Burma, India. Fishing-tool for use in well-boring. No. 1,336,815; Apr. 13; v. 273; p. 270.
Calarco, Domenico, Burlington, Vt. Combined talking-machine and writing-desk. No. 1,330,734; Feb. 10; v. 271; p. 291.
Calarco, Domenico, Burlington, Vt. Convertible ironing-board, stepladder, and sled. No. 1,335,652; Mar. 30; v. 272; p. 874.
Calatayud, Carlos M., and A. Lodien, Buenos Aires, Argentina. Transporting means. No. 1,329,956; Feb. 3; v. 271; p. 114.
Calcaño, Aristides, La Guaira, Venezuela. Stationery. No. 1,359,326; Nov. 16; v. 280; p. 520.
Calcaterra, Joseph, assignor of one-third to R. J. Cruice and one-third to A. J. Finnerty, New York, N. Y. Safety device for the clutch-controlling means of automobiles. No. 1,363,082; Dec. 21; v. 281; p. 514.
Calcaterra, Joseph, assignor of one-third to R. J. Cruice and one-third to A. J. Finnerty, New York, N. Y. Safety device for the clutch-controlling means of automobiles. No. 1,363,083; Dec. 21; v. 281; p. 514.
Calderon, Lope V., La Ceiba, Honduras. Spur. No. 1,351,619; Aug. 31; v. 277; p. 914.
Calderwood, James W., Washington, D. C. Cornet. No. 1,343,883; June 15; v. 275; p. 563.
Caldes, Constantine, Jersey City, N. J. Shoe-shining machine. No. 1,343,032; June 8; v. 275; p. 332.
Caldwell, Alfred R., Pasadena, Calif. Dressing for leather and leather substitutes and making same. No. 1,338,286; Apr. 27; v. 273; p. 693.
Caldwell, Benjamin F., Pomona, Calif. Furnace. No. 1,351,282; Aug. 31; v. 277; p. 847.
Caldwell, Clifford A., Pittsburgh, Pa. Steering-rod for automobiles. No. 1,343,305; June 15; v. 275; p. 448.
Caldwell, Edwin D., Dunkirk, assignor, by mesne assignments, to P. Ridings, trustee, Syracuse, N. Y. Differential gear. No. 1,359,961; Nov. 23; v. 280; p. 691.
Caldwell, George B., Ottawa, Ontario, Canada. Combination hand-tool. No. 1,338,420; Apr. 27; v. 273; p. 718.
Caldwell, H. W., & Son, Company. (See Hiegel, Joseph L., assignor.)
Caldwell, James R. (See Link, William, assignor.)
Caldwell, John W., Lebanon, N. H. Screw. No. 1,336,773; Apr. 13; v. 273; p. 262.
Caldwell, Noah L., Knoxville, Tenn. Tire-removing apparatus. No. 1,352,722; Sept. 14; v. 278; p. 231.
Caldwell, Waller J., Rives, Tenn. Hinge. No. 1,330,680; Feb. 10; v. 271; p. 280.
Caldwell, William W. (See Wild, J. E., and Caldwell.)
Calef, George W., Boston, Mass. Gas-burner. No. 1,351,715; Aug. 31; v. 277; p. 932.

Calentine, George C., assignor of one-half to H. S. Groger and R. H. Groger, Everett, Wash. Fuse-plug. No. 1,330,516; Feb. 10; v. 271; p. 250.
Caley, Edward C., and C. C. Wray, Burton Pidsea, near Kingston-upon-Hull, England. Agricultural plow. No. 1,347,321; July 20; v. 276; p. 514.
Caley, Guy R., Silesia, Mont. Masking attachment for photographic finders. No. 1,347,681; July 27; v. 276; p. 642.
Calhoun, George E., Amsterdam, N. Y. Brake-lining dressing. No. 1,338,811; May 4; v. 274; p. 80.
Calhoun, John B., Apollo, Pa. Package-tie. No. 1,339,317; May 4; v. 274; p. 123.
Calhoun, John W., Chester, Pa. Stopcock. No. 1,330,459; Feb. 10; v. 271; p. 240.
Calhoun, John W., Chester, Pa. Meter connection and controlling means. No. 1,345,124; June 29; v. 275; p. 933.
California Alkali Company. (See Hirschkind, Wilhelm, assignor.)
California Alkali Company. (See McIlhiney, Parker C., assignor.)
California Barrel Company. (See Schott, Rudolf F., assignor.)
California Burdett Oxygen Company. (See Coberly, Clarence J., assignor.)
California Burdett Oxygen Company. (See Molas, Clodion, assignor.)
California Corrugated Culvert Company. (See Force, Raymond C., assignor.)
California Corrugated Culvert Company. (See Wyman, Laurence W., assignor.)
Calkins, Bert L., Detroit, Mich. Hacksaw-blade. No. 1,328,982; Jan. 27; v. 270; p. 522.
Calkins, Charles H., Ludlow, Mass., assignor to Baush Machine Tool Company. Composite gear. No. 1,338,672; May 4; v. 274; p. 4.
Calkins, Elizabeth, St. Joseph, Mo. Vest. No. 1,336,279; Apr. 6; v. 273; p. 108.
Calkins, Herbert V., Longmont, Colo. Agricultural implement. No. 1,328,124; Jan. 13; v. 270; p. 294.
Call, Franklin H., Portland, Oreg. Cabinet for phonographic records. No. 1,327,142; Jan. 6; v. 270; p. 49.
Call, Franklin H., Portland, Oreg. Cabinet for phonographic records. No. 1,327,143; Jan. 6; v. 270; p. 49.
Call, Henry L., St. Louis, Mo. Vehicle. No. 1,337,437; Apr. 20; v. 273; p. 463.
Callaghan, Henry J. (See Callaghan, John J., assignor.)
Callaghan, John J., assignor to H. J. Callaghan, Livermore, Calif. Apparatus for propagating and intensifying electrical oscillations. No. 1,347,440; July 20; v. 276; p. 538.
Callaghan, Michael J., New Haven, Conn. Demountable-spout cooking utensil. No. 1,361,441; Dec. 7; v. 281; p. 94.
Callahan, Charles J., Attleboro, Mass. Collar-holder. No. 1,362,923; Dec. 21; v. 281; p. 482.
Callahan, James M., Washington, D. C. Swagger-stick. No. 1,339,162; May 4; v. 274; p. 95.
Callahan, James M., Washington, D. C. Swagger-stick. No. 1,339,257; May 4; v. 274; p. 112.
Callahan, John F., deceased, Scotia, N. Y.; Sarah D. Callahan administratrix. Hand-truck. No. 1,342,585; June 8; v. 275; p. 243.
Callahan, John W. and M. B., El Paso, Tex. Sanitary cover-pad for mattresses. No. 1,339,738; May 11; v. 274; p. 279.
Callahan, Maud B. (See Callahan, John W. and M. B.)
Callahan, Sarah D., administratrix. (See Callahan, John F.)
Callahan, Robert L., Louisville, Ky. Bag-filling machine. No. 1,336,612; Apr. 13; v. 273; p. 231.
Callahan, Thomas J., Dayton, Ohio. Sill-joint for cut-to-fit greenhouses. No. 1,335,554; Mar. 30; v. 272; p. 856.
Callan, John G., Nahant, assignor, by mesne assignments, to Eastern Manufacturing Company, Boston, Mass. Viscosity-indicator. No. 1,331,861; Feb. 24; v. 271; p. 592.
Callegaris, Marco E., Milan, Italy. Ordinary electric wall-switch. No. 1,331,955; Feb. 24; v. 271; p. 609.
Callely, Thomas F. (See Seeley, Leonard E., assignor.)
Callen, Edward D., Greenville, Miss. Excavator. No. 1,342,895; June 8; v. 275; p. 305.
Callender, Romaine, Philadelphia, Pa., assignor to The Aeolian Company. Music-sheet. No. 1,329,286; Jan. 27; v. 270; p. 578.
Callender, Wallace V., Chicago, Ill. Method and apparatus for retinning ice-cream cans. No. 1,336,886; Apr. 13; v. 273; p. 284.
Callery, George F., assignor to Sears, Roebuck and Co., Chicago, Ill. Means for making fiber-board box-blanks. No. 1,361,564; Dec. 7; v. 281; p. 119.
Calleson, Amos, Brooklyn, N. Y. Sealing appliance. No. 1,331,182; Feb. 17; v. 271; p. 444.
Calleson, Amos, Brooklyn, N. Y. Sealing appliance. No. 1,353,628; Sept. 21; v. 278; p. 470.
Calleson, Amos, assignor to Adriance Machine Works, Inc., Brooklyn, N. Y. Machine for making articles of sheet metal. No. 1,345,664; July 6; v. 276; p. 66.
Calleson, Amos, assignor to Adriance Machine Works, Inc., Brooklyn, N. Y. Bottle-filling machine. No. 1,358,931; Nov. 16; v. 280; p. 445.

Digitized by Google

Callicott, John, Toronto, Ontario, Canada. Steam-trap. No. 1,334,079; Mar. 16; v. 272; p. 472.
Callow, John M., Salt Lake City, Utah, assignor, by mesne assignments, to Pneumatic Process Flotation Company, New York, N. Y. Method of and apparatus for concentrating ores. No. 1,329,335; Jan. 27; v. 270; p. 587.
Callow, John M., Salt Lake City, Utah, and H. P. Corliss, deceased; M. P. Corliss, executrix, Pittsburgh, Pa., assignors to Metals Recovery Company, Augusta, Me. Flotation apparatus and process. No. 1,331,238; Feb. 17; v. 271; p. 454.
Callow, John M., Salt Lake City, Utah; J. W. Thompson, Superior, Ariz., and J. T. Terry, Jr., Salt Lake City, Utah, assignors to The Metals Recovery Company, New York, N. Y. Method and apparatus for concentrating oxidized ores by sulfidation and flotation. No. 1,334,733; Mar. 23; v. 272; p. 641.
Callow, John M., Salt Lake City, Utah; J. W. Thompson, Superior, Ariz., and J. T. Terry, Jr., Salt Lake City, Utah, assignors to The Metals Recovery Company, New York, N. Y. Method of and apparatus for concentrating oxidized ores by flotation. No. 1,334,734; Mar. 23; v. 272; p. 641.
Calloway, Albert B., Ackerman, Miss. Bedstead attachment. No. 1,360,985; Nov. 30; v. 280; p. 959.
Callsen, Henry, New York, N. Y. Dental tool. No. 1,354,089; Sept. 28; v. 278; p. 607.
Calmer, Edward, St. Louis, Mo. Fire-kindler. No. 1,353,214; Sept. 21; v. 278; p. 388.
Calmus, Harvey A., Pittsburgh, Pa. Hen-marker. No. 1,350,209; Aug. 17; v. 277; p. 530.
Calolaro, Angelo, Salt Lake City, Utah. Recording device for weighing-scales. No. 1,354,445; Sept. 28; v. 278; p. 678.
Calorex Corporation, The. (See Robertson, William P., assignor.)
Calow, Stanley C., assignor of one-half to S. Bennett, Calgary, Alberta, Canada. Incubator. No. 1,328,032; Jan. 13; v. 270; p. 277.
Calta, James W., Platte, S. D. Composition of matter for sealing piston-rings. No. 1,363,563; Dec. 28; v. 281; p. 648.
Calthrop, Everard R., assignor to E. R. Calthrop's Aerial Patents Limited, London, England. Parachute. No. 1,345,582; July 6; v. 276; p. 50.
Calthrop, Everard R., assignor to E. R. Calthrop's Aerial Patents Limited, London, England. Parachute. No. 1,353,378; Sept. 21; v. 278; p. 420.
Calthrop's, E. R., Aerial Patents Limited. (See Calthrop, Everard R., assignor.)
Calvelage, Stephen G., Jamestown, N. D. Storm and screen window hanger. No. 1,337,689; Apr. 20; v. 273; p. 511.
Calvert, Alan, Philadelphia, Pa. Reflecting device. No. 1,349,558; Aug. 17; v. 277; p. 404.
Calvert, John A., Carberry, Manitoba, Canada. Binder. No. 1,337,193; Apr. 20; v. 273; p. 417.
Calvert, Robert P., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Separating nitrates of potassium and sodium. No. 1,356,806; Oct. 26; v. 279; p. 602.
Camell, Philip, Wilmington, Del. Adjustable switch-point rail-section. No. 1,344,259; June 22; v. 275; p. 700.
Camelinat, Eugene G., Birmingham, England. Means for supporting lamps. No. 1,328,125; Jan. 13; v. 270; p. 294.
Camelinat, Eugene G., Birmingham, England. Electric lamp. No. 1,331,319; Feb. 17; v. 271; p. 468.
Camelinat, Eugene G., Birmingham, England. Lamp for vehicles and the like. No. 1,334,838; Mar. 23; v. 272; p. 662.
Camell, Ramon, Rhone, and L. Cochet and J. Gritte, Lyon, assignors to Societe Lyonnaise Des Réchauds Catalytiques Camell, Cochet, Gritte & Cie. (Société en Commandite), Calure, Rhone, France. Catalytic heating apparatus. No. 1,354,090; Sept. 28; v. 278; p. 607.
Camenisch, Edward T., Chicago, Ill. Receptacle attachment for bedsteads. No. 1,357,951; Nov. 9; v. 280; p. 204.
Cameron Appliance Company. (See Dissel, Theodore A., assignor.)
Cameron, Brewster. (See Worthen, Burt L., assignor.) (Reissue.)
Cameron Can Machinery Co. (See Cameron, William, assignor.)
Cameron, Duncan, Minnedosa, Manitoba, Canada. Vehicle-tongue. No. 1,345,125; June 29; v. 275; p. 933.
Cameron, Edgar S., *et al.* (See Tucker, Ralph H., assignor.)
Cameron, F. K., and J. A. Cullen, Salt Lake City, Utah, and R. W. Hyde, New York, N. Y., assignors to American Smelting & Refining Company, Salt Lake City, Utah. Treating zinc-bearing ores. No. 1,352,300; Sept. 7; v. 278; p. 131.
Cameron, Harry, Manchester, England. Metal shearing and punching machine. No. 1,357,842; Nov. 2; v. 280; p. 123.
Cameron, James A., and G. B. Birch, assignors to Cameron Machine Company, Brooklyn, N. Y. Slitting and rewinding machine. No. 1,350,064; Aug. 17; v. 277; p. 501.
Cameron, James A., and G. B. Birch, assignors to Cameron Machine Company, Brooklyn, N. Y. Slitting and rewinding machine. No. 1,354,463; Oct. 5; v. 279; p. 3.
Cameron, James A., and G. B. Birch, assignors to Cameron Machine Company, Brooklyn, N. Y. Slitting and rewinding machine. No. 1,354,464; Oct. 5; v. 279; p. 4.
Cameron, James A., and G. B. Birch, assignors to Cameron Machine Company, Brooklyn, N. Y. Slitting means. No. 1,355,104; Oct. 5; v. 279; p. 130.
Cameron Machine Company. (See Cameron, J. A., and Birch, assignors.)
Cameron Machine Company. (See Johnstone, Robert McC., assignor.)
Cameron, Theodore R., San Antonio, Tex. Power reversing mechanism. No. 1,352,784; Sept. 14; v. 278; p. 244.
Cameron, Theodore R., San Antonio, Tex. Feeding apparatus for baling-presses. No. 1,352,785; Sept. 14; v. 278; p. 244.
Cameron, William, assignor to Torris Wold & Company, Chicago, Ill. Automatic die-press. No. 1,337,307; Apr. 20; v. 273; p. 439.
Cameron, William, assignor to Torris Wold & Company, Chicago, Ill. Blank-positioning mechanism. No. 1,346,589; July 13; v. 276; p. 310.
Cameron, William, assignor to Cameron Can Machinery Co., Chicago, Ill. Can-end-feeding mechanism. No. 1,352,578; Sept. 14; v. 278; p. 202.
Cameron, William J., Chicago, Ill. Adapter. No. 1,335,935; Apr. 6; v. 273; p. 44.
Cameron, William J. Chicago, Ill. Filling lamps. No. 1,348,978; Aug. 10; v. 277; p. 216.
Cameron, William J., assignor to Holyoke Plush Company, Holyoke, Mass. Safety-robe. No. 1,362,525; Dec. 14; v. 281; p. 353.
Cameron, William W. (See Davis, F. E., and Cameron.)
Cameron, William W., assignor of one-half to H. J. Hirshheimer, La Crosse, Wis. Luggage-carrier. No. 1,328,316; Jan. 20; v. 270; p. 367.
Camfield, Earthen H., Florence, Colo. Auto-conveyer. No. 1,357,442; Nov. 2; v. 280; p. 46.
Caminiti, Joseph, Brooklyn, N. Y. Display device for advertising fruit-juices. No. 1,333,386; Mar. 9; v. 272; p. 281.
Cammack, James M., Brooklyn, N. Y. Automatic control-valve. No. 1,350,065; Aug. 17; v. 277; p. 502.
Cammack, James M., Brooklyn, N. Y. Radiator. No. 1,350,066; Aug. 17; v. 277; p. 502.
Cammann, Charles F. A., New York, N. Y. Combined window-screen and ventilator. No. 1,356,428; Oct. 19; v. 279; p. 482.
Cammans, Paul, Seattle, Wash. Submersible cooker. No. 1,331,620; Feb. 24; v. 271; p. 546.
Cammans, Paul, Seattle, Wash. Submersible cooker. No. 1,362,224; Dec. 14; v. 281; p. 296.
Cammen, Leon, New York, N. Y., and A. W. Ofeldt, Weehawken, N. J., assignors to Northwind Spark Plug Corporation, New York, N. Y. Spark-plug. No. 1,344,172; June 22; v. 275; p. 683.
Camp, Curtis B., *et al.*, trustees. (See Bradbury, Clifford C., assignor.)
Camp, Ernest, San Diego, Calif. Mixer for gaseous fuel. No. 1,327,699; Jan. 13; v. 270; p. 214.
Camp, Harriette M., Boston, Mass. Cabinet-couch. No. 1,327,941; Jan. 13; v. 270; p. 259.
Camp, James H., Ravenswood, W. Va. Combined advance-discount voucher-check, order, and commercial letter. No. 1,343,110; June 8; v. 275; p. 347.
Camp, Warner H., and R. H. Butters, assignors to The Butters-Camp Mfg. Co., Atlanta, Ga. Gin or linter saw teeth. No. 1,353,022; Sept. 14; v. 278; p. 201.
Camp, William W., Stratford, Ontario, Canada. Press. No. 1,349,318; Aug. 10; v. 277; p. 283.
Campagnie Des Forges et Acieries De La Marine et D'Homecourt. (See Rimailho, Emile, assignor.)
Campbell, Alexander B., Glasgow, Scotland. Electrically-heated perforator. No. 1,361,442; Dec. 7; v. 281; p. 94.
Campbell, Alfred J., Rochester, N. Y. Golf-club. No. 1,355,889; Oct. 19; v. 279; p. 376.
Campbell, Alston G., Volga, W. Va. Chicken-coop. No. 1,342,371; June 1; v. 275; p. 148.
Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Means for discharging materials from railway-cars. No. 1,342,088; June 1; v. 275; p. 93.
Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Car. No. 1,342,089; June 1; v. 275; p. 93.
Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Door-operating mechanism. No. 1,342,090; June 1; v. 275; p. 94.
Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Means for discharging materials from railway-cars or other similar containers. No. 1,342,091; June 1; v. 275; p. 94.
Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Means for discharging grain and similar materials from cars or other containers. No. 1,342,092; June 1; v. 275; p. 94.

Digitized by Google

Alphabetical list of patentees—Continued.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Car-door-operating mechanism. No. 1,342,093; June 1; v. 275; p. 94.
Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Grain-car. No. 1,342,094; June 1; v. 275; p. 94.
Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Car. No. 1,342,095; June 1; v. 275; p. 95.
Campbell, Bryant D., Oakland, Calif. Telephone system. No. 1,348,780; Aug. 3; v. 277; p. 125.
Campbell, Charles A., New York, N. Y. Reflector. No. 1,361,365; Dec. 7; v. 281; p. 77.
Campbell, Charles G. (See Dawson, James, assignor.)
Campbell, Colin, Rutherford, N. J. Portable polisher and grinder. No. 1,334,224; Mar. 16; v. 272; p. 499.
Campbell, Daniel, Baltimore, Md. Paint composition. No. 1,344,861; June 29; v. 275; p. 883.
Campbell, Donald F. (See Gow and Campbell.)
Campbell, Edward B., assignor to Williams Patent Crusher and Pulverizer Co., St. Louis, Mo. Reducing-mill. (Reissue.) No. 14,886; June 22; v. 275; p. 770.
Campbell, Edward B., assignor to Williams Patent Crusher & Pulverizer Co., St. Louis, Mo. Journal-bearing support. No. 1,356,037; Oct. 19; v. 279; p. 404.
Campbell, Edward B., assignor to Williams Patent Crusher and Pulverizer Co., St. Louis, Mo. Reducing-mill. No. 1,361,679; Dec. 7; v. 281; p. 140.
Campbell, Edward F., administrator. (See Campbell, George R. C.)
Campbell, Frank M., South Bend, Wash. Brake. No. 1,328,491; Jan. 20; v. 270; p. 401.
Campbell, Frank M., Seattle, Wash. Fluid-controlled clutch mechanism. No. 1,347,322; July 20; v. 276; p. 514.
Campbell, George A., assignor to American Telephone and Telegraph Company, Montclair, N. J. Four-wire transmission system. No. 1,352,786; Sept. 14; v. 278; p. 244.
Campbell, George B., Fort Morgan, Colo., assignor of one-half to Arlington Taylor, Fort Morgan, Colo. Ditch-digging machine. No. 1,333,158; Mar. 9; v. 272; p. 238.
Campbell, George L., Springfield, Mo. Union overalls. No. 1,341,224; May 25; v. 274; p. 690.
Campbell, George M., St. Louis, Mo. Automobile-alarm. No. 1,347,495; July 27; v. 276; p. 605.
Campbell, George R. C., deceased, Slough, England; Edward F. Campbell, administrator, Moy, Ireland, and Geoffrey T. Bennett, Slough, England. Magnetic compass. No. 1,341,296; May 25; v. 274; p. 703.
Campbell, George W., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,332,971; Mar. 9; v. 272; p. 204.
Campbell, George W., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,332,972; Mar. 9; v. 272; p. 204.
Campbell, Harry E., assignor to Union Electric Mfg. Co., Milwaukee, Wis. Electric switch. No. 1,335,936; Apr. 6; v. 273; p. 44.
Campbell, Henry W. (See Williams, Glen L., assignor.)
Campbell, Hudson S., Clarksburg, W. Va. Cutter or gripper for use in drawing sheet-glass. No. 1,355,449; Oct. 12; v. 279; p. 250.
Campbell, James C., New York, N. Y. Vacuum pneumatic hammer. No. 1,342,984; June 8; v. 275; p. 322.
Campbell, James H., assignor to The Columbus Glass Company, Lancaster, Ohio. Apparatus for drawing glass cylinders. No. 1,335,653; Mar. 30; v. 272; p. 875.
Campbell, Jesse T., Elbridge, Tenn. Plow. No. 1,335,276; Mar. 30; v. 272; p. 803.
Campbell, Jesse T., Elbridge, Tenn. Sanitary churn. No. 1,344,022; June 22; v. 275; p. 654.
Campbell, John A., Carbondale, Ill. Door-spring. No. 1,343,033; June 8; v. 275; p. 332.
Campbell, John R., Sanford, N. C. Combination andiron-grate. No. 1,347,935; July 27; v. 276; p. 693.
Campbell, Le Roy W., Grand Rapids, Mich. Tunneling-machine. No. 1,335,723; Apr. 6; v. 273; p. 4.
Campbell, Napoleon. (See Talbot, E., and Campbell.)
Campbell, Patrick G., Monolith, Calif. Agitating device. No. 1,349,492; Aug. 10; v. 277; p. 318.
Campbell, Robert E., Berkeley, Calif. Valve. No. 1,327,984; Jan. 13; v. 270; p. 267.
Campbell, Robert E., Berkeley, Calif. Valve. No. 1,330,429; Feb. 10; v. 271; p. 234.
Campbell, Robert L., Hagerstown, Md. Footwear. No. 1,363,640; Dec. 28; v. 281; p. 662.
Campbell, Roy L., assignor of one-half to J. W. Cummings, Altonpark, Tenn. Stop mechanism. No. 1,340,152; May 18; v. 274; p. 415.
Campbell, Scott E., Los Angeles, Calif. Automatic dry-pipe valve. No. 1,359,327; Nov. 16; v. 280; p. 520.
Campbell, Sterling H., St. Louis, Mo. Connection for pin-lifters. No. 1,358,361; Nov. 9; v. 280; p. 280.
Campbell, Sterling H., St. Louis, Mo. Uncoupling device. No. 1,358,362; Nov. 9; v. 280; p. 286.
Campbell, Sterling H., St. Louis, Mo. Bracket for uncoupling devices. No. 1,358,363; Nov. 9; v. 280; p. 286.
Campbell, Thomas M., Dallas, Tex. Weather-strip. No. 1,345,832; July 6; v. 276; p. 99.
Campbell, Walter T., St. Louis, Mo. Tire-lock. No. 1,330,167; Feb. 10; v. 271; p. 185.
Campbell, William A., Grenada, Miss. Loading and unloading device. No. 1,359,790; Nov. 23; v. 280; p. 657.
Campbell, William B., Yakima, Wash. Rotary pump. No. 1,363,716; Dec. 28; v. 281; p. 676.
Campbell, William C., Denver, Colo. Milk-bottle carrier. No. 1,352,173; Sept. 7; v. 278; p. 88.
Campbell, William J., Indianapolis, Ind. Eraser attachment for pencils. No. 1,353,215; Sept. 21; v. 278; p. 388.
Campbell, Wilson L., Chicago, Ill., assignor, by mesne assignments, to Automatic Electric Company. Automatic party-line telephone system. No. 1,329,287; Jan. 27; v. 270; p. 579.
Campen, Edelbert J. M., Stevensville, Mont. Sack-holder. No. 1,330,681; Feb. 10; v. 271; p. 281.
Camporini, August, and J. Rena, Chicago, Ill. Spark-plug changer. No. 1,343,348; June 15; v. 275; p. 456.
Camward Engineering Co. (See Howard, John A., Sr., assignor.)
Can Conservation Company. (See Rude, James M., assignor.)
Canada, Somers T., Atlanta, Ga. Radiator. No. 1,336,816; Apr. 13; v. 273; p. 271.
Canaday, Henry C., Mayfield, Ky. Current-motor. No. 1,334,595; Mar. 23; v. 272; p. 615.
Canady, Buel H., Winslow, Ariz. Removable bearing-plate. No. 1,347,248; July 20; v. 276; p. 499.
Canale, Mario A., and R. Frias, Buenos Aires, Argentina: Apparatus for utilizing the trepidations of vehicles. No. 1,340,013; May 11; v. 274; p. 331.
Canales, John L. (See Mediaville, L., Canales.)
Canby, Amos G., Detroit, Mich. Ornament for the caps of radiators. No. 1,362,672; Dec. 21; v. 281; p. 434.
Cancianich, Francis J., Newport News, Va. Hat-fastener. No. 1,341,356; May 25; v. 274; p. 715.
Canda, Ferdinand E., New York, N. Y. Rolling balls and other objects of rotation. No. 1,337,640; Apr. 20; v. 273; p. 501.
Canda, Ferdinand E., New York, N. Y. Ball-mill. No. 1,337,641; Apr. 20; v. 273; p. 501.
Candee, Andrew H., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,351,022; Aug. 31; v. 277; p. 796.
Candee, Andrew H., assignor to Westinghouse Electric & Manufacturing Company, Pittsburgh, Pa. System of control. No. 1,352,427; Sept. 14; v. 278; p. 172.
Candee, Andrew H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,354,167; Sept. 28; v. 278; p. 622.
Candee, Andrew H., assignor to Westinghouse Electric & Manufacturing Company, Pittsburgh, Pa. Control system. No. 1,358,704; Nov. 16; v. 280; p. 399.
Candee, Bertram C., Buffalo, N. Y. Fuse. No. 1,363,641; Dec. 28; v. 281; p. 662.
Candee, Bertram C., and F. Moeser, assignors to Pierce Fuse Corporation, Buffalo, N. Y. Fuse. No. 1,363,642; Dec. 28; v. 281; p. 662.
Candee, L., & Co. (See Joseph, Frank A., assignor.)
Candee, L., & Company. (See Rice, J. M., Joseph, and Rupp, assignors.)
Candee, L., & Company. (See Stuart, Charles J., assignor.)
Candee, Zenas P., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Stamping-press. No. 1,354,377; Sept. 28; v. 278; p. 665.
Candy, Albert M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric-arc-welding system. No. 1,343,194; June 15; v. 275; p. 428.
Canellos, Steve. (See Malacos, P., and Canellos.)
Canellos, Steve G., Connellsville, Pa. Wall-papering device. No. 1,354,430; Sept. 28; v. 278; p. 675.
Canfield, Arthur J., Montreal, Quebec, Canada. Making draft-gear yokes. No. 1,349,493; Aug. 10; v. 277; p. 318.
Canfield, Edwin J., and M. Morrill, Detroit, Mich. Anti-skidding device. No. 1,333,881; Mar. 16; v. 272; p. 425.
Canfield, Harry R., assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio. Method and means for controlling electric circuits. No. 1,344,260; June 22; v. 275; p. 700.
Canfield, Harry R., assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio. Electromagnetically-operated device. No. 1,354,880; Oct. 5; v. 279; p. 86.
Canfield, Harry R., assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio. Electromagnetically-operated device. No. 1,354,881; Oct. 5; v. 279; p. 87.
Canfield, Harry R., assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio. Electromagnetically-operated device. No. 1,354,882; Oct. 5; v. 279; p. 87.

Digitized by Google

Canfield, Harry R., assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio. Electromagnetically-operated device. No. 1,354,883; Oct. 5; v. 279; p. 87.

Canfield, Harry R., assignor to The Ohio Electric and Controller Company, Cleveland, Ohio. Centrifugal switch. No. 1,362,600; Dec. 21; v. 281; p. 419.

Canfield, John M., North Glenside, Pa. Beverage-dispensing apparatus. No. 1,363,084; Dec. 21; v. 281; p. 514.

Canfield, Marmaduke W. (See Shondell, William H., assignor.)

Canfield, Stephen N., Holly, Colo. Sulky-rake. No. 1,351,158; Aug. 31; v. 277; p. 822.

Cannell, William, Springfield, Mass., assignor to Bausch Machine Tool Company. Machine for grinding worms and the like. No. 1,346,173; July 13; v. 276; p. 228.

Canner, Max O., assignor of one-half to A. Duff and S. Duff, New York, N. Y. Safety-receptacle. No. 1,346,174; July 13; v. 276; p. 229.

Canning, Martin J., Chicago, Ill. Fuse-plug. No. 1,350,210; Aug. 17; v. 277; p. 530.

Cannistra, Giuseppe, New York, N. Y. Hydroaeroplane. No. 1,332,602; Mar. 2; v. 272; p. 82.

Cannistra, Giuseppe, New York, N. Y. Flying-machine. No. 1,332,801; Mar. 2; v. 272; p. 120.

Cannon, Andrew H. (See Smith, Leonard A., assignor.)

Cannon, Bernard E., Locust Gap, Pa. Relief-valve for pumps. No. 1,361,825; Dec. 14; v. 281; p. 216.

Cannon, Charles S. (See Dane and Cannon.)

Cannon, Edson L. (See Wunderlich, Adolph, assignor.)

Cannon, Francis P. (See Wilbur, M. D., Cannon, and Murphy.)

Cannon, G. B., Jr., Brooklyn, and F. W. Howard, New York, N. Y. Umbrella. No. 1,356,263; Oct. 19; v. 279; p. 450.

Cannon, George B., Jr., Brooklyn, and F. W. Howard, New York, N. Y. Umbrella. No. 1,356,264; Oct. 19; v. 279; p. 450.

Cannon, George B., Jr., Brooklyn, and F. W. Howard, New York, N. Y. Umbrella. No. 1,356,265; Oct. 19; v. 279; p. 451.

Cannon, Harley, C. Barbre, and E. H. Leslie, assignors to General Petroleum Corporation, Los Angeles, Calif. Producing an ore-flotation agent. No. 1,337,542; Apr. 20; v. 273; p. 483.

Cannon, Harry M., Corvallis, Oreg. Automobile-shoe. No. 1,356,963; Oct. 26; v. 279; p. 633.

Cannon, James H., Los Angeles, Calif. Binder for telephone-directories. No. 1,360,264; Nov. 30; v. 280; p. 819.

Cannon, Louis S., Rosemary, N. C. Safety stop-motion for Jacquard looms. No. 1,336,677; Apr. 13; v. 273; p. 244.

Cannon, Mervin B., Cincinnati, Ohio. Toilet-package. No. 1,346,441; July 13; v. 276; p. 282.

Cannon, Patrick, New York, N. Y. Rim-holding stand. No. 1,337,821; Apr. 20; v. 273; p. 535.

Canon, Frank A., assignor to The Barrett Company, Grantwood, N. J. Producing catalytic reactions in the vapor phase. No. 1,355,105; Oct. 5; v. 279; p. 130.

Cant, Alfred. (See Hall, Nelson, assignor.)

Cantelo, John S., Boston, Mass. Caster. No. 1,338,356; Apr. 27; v. 273; p. 707.

Cantelo, John S., Boston, Mass. Caster. No. 1,348,150; Aug. 3; v. 277; p. 4.

Canter, Samuel C., Wilkesboro, N. C. Bridle and halter. No. 1,351,620; Aug. 31; v. 277; p. 914.

Canton, Allen A., New York, N. Y., assignor to Canton Fan Heater Co. Fan. No. 1,348,477; Aug. 3; v. 277; p. 68.

Canton Fan Heater Co. (See Canton, Allen A., assignor.)

Cantor, Solomon, New York, N. Y., and H. Gonen, Paterson, N. J. Broom. No. 1,335,654; Mar. 30; v. 272; p. 875.

Cantrell, Lee E., Nashville, Tenn. Lock. No. 1,344,484; June 22; v. 275; p. 745.

Cantrell, Marvin L., Pueblo, Colo. Kiddie-coaster. No. 1,344,023; June 22; v. 275; p. 654.

Canty, Patrick M., Altoona, Pa. Flue-extractor. No. 1,343,431; June 15; v. 275; p. 473.

Capehart, Newton P., Crystal River, Fla. Trap. No. 1,340,372; May 18; v. 274; p. 456.

Capell, Carl F., assignor of one-tenth to K. M. Brown, and two-fifths to H. C. Brown, Los Angeles, Calif. Receptacle-cleaner. No. 1,360,265; Nov. 30; v. 280; p. 819.

Capellen, Earle M. (See Capellen, William H. and E. M.)

Capellen, William H. and E. M., Morgan township, Franklin county, Iowa. Combined metal frame and closure. No. 1,363,717; Dec. 28; v. 281; p. 677.

Capes, Delbert R. (See Sebastian, A. A., and Capes.)

Capewell, George J., Hartford, Conn. Horseshoe. No. 1,337,194; Apr. 20; v. 273; p. 417.

Capitan, Arquimedes, David, Panama. Train-signal. No. 1,331,318; Feb. 17; v. 271; p. 468.

Caples, Russell B. (See Elton, J. O., and Caples.)

Capman, Carl E., assignor to J. Saltzman, Chicago, Ill. Ironing-machine. No. 1,340,522; May 18; v. 274; p. 484.

Cappelen, Frederick W., Minneapolis, Minn. Headlight-shade. No. 1,353,890; Sept. 28; v. 278; p. 565.

Cappelli, Vincenzo, Rome, Italy. Apparatus for roasting and preparing coffee in cups. No. 1,345,477; July 6; v. 276; p. 29.

Capps, Frank L., Brooklyn, assignor to Pathe Freres Phonograph Company, New York, N. Y. Phonograph-reproducers. No. 1,358,135; Nov. 9; v. 280; p. 241.

Caproni, Gianni, Milan, Italy. Landing-carriage for flying-machines. No. 1,345,833; July 6; v. 276; p. 99.

Caproni, Gianni, Milan, Italy. Multiplane aeroplane. No. 1,349,116; Aug. 10; v. 277; p. 243.

Caproni, Gianni, Milan, Italy. Multiplane flying-machine. No. 1,356,850; Oct. 26; v. 279; p. 612.

Caproni, Gianni, Milan, Italy. Knockdown aeroplane. No. 1,357,542; Nov. 2; v. 280; p. 64.

Caps, John E., Wilmette, Ill. Water-softener and preparing same. No. 1,356,756; Oct. 26; v. 279; p. 593.

Caps, John E., Wilmette, Ill. Water-softening apparatus. No. 1,362,673; Dec. 21; v. 281; p. 434.

Capstaff, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Apparatus for treating motion-picture films. No. 1,351,834; Sept. 7; v. 278; p. 24.

Capstaff, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Projection-printer. No. 1,361,012; Dec. 7; v. 281; p. 6.

Capstraw, Arthur J., Detroit, Mich. Cuff button or clasp. No. 1,355,651; Oct. 12; v. 279; p. 289.

Caraballo, Antonio M. (See Gunturis y Santos, Nicolas, assignor.)

Caraccio, Giovanni, Genoa, Italy. Cock. No. 1,361,826; Dec. 14; v. 281; p. 216.

Caracristi, Virginius Z., Bronxville, assignor to Locomotive Pulverized Fuel Company, New York, N. Y. Means for feeding fuel to combustion-chambers. No. 1,336,125; Apr. 6; v. 273; p. 80.

Caralum, Stanley, Melrose Park, Ill. Key-guard. No. 1,343,615. June 15; v. 275; p. 509.

Carbo Gas Company, The. (See De Clairmont, Adolfo, assignor.)

Carbo-Hydrogen Company, The. (See Richardson, John F., assignor.)

Carbon Destroyer Corporation. (See Millard, William, assignor.)

Carbon Products Company. (See Rendall, George F., assignor.)

Carbone, Tito L., and P. Metzler, Zurich, Switzerland. Two-stroke-cycle internal-combustion engine. No. 1,361,680; Dec. 7; v. 281; p. 141.

Carborundum Company, The. (See Hutchins, Otis, assignor.)

Carborundum Company, The. (See Linbarger, Silas C., assignor.)

Carborundum Company, The. (See MacGregor, William, assignor.)

Carborundum Company, The. (See Tone, Frank J., assignor.)

Carburetor Lock Corporation, The. (See Evans, W. C., and Bancroft, assignors.)

Card, Samuel, East Providence, R. I. Separator for spinning-frames. No. 1,352,657; Sept. 14; v. 278; p. 218.

Cardall, Richard R., assignor of one-half to H. Shepherd, Salt Lake City, Utah. Posting-tray and record-binder. No. 1,348,781; Aug. 3; v. 277; p. 125.

Cardall, Richard R., assignor of one-half to H. Shepherd, Salt Lake City, Utah. Combined posting-box and file. No. 1,356,851; Oct. 26; v. 279; p. 612.

Carden, David A., Houston, Tex., assignor, by mesne assignments, to Interstate Oil and Equipment Corporation. Pump. No. 1,337,180; Apr. 13; v. 273; p. 340.

Carden, Luther W., Cherokee, Ala. Nut-lock. No. 1,327,373; Jan. 6; v. 270; p. 92.

Cardinell, Thomas, Mound City, Mo. Tire-casing spreader. No. 1,350,779; Aug. 24; v. 277; p. 687.

Cardone, Paul G., Fumagalli, and C. Surico, New York, N. Y. Noodle-cutting machine. No. 1,357,611; Nov. 2; v. 280; p. 77.

Cardoza, John B. N., Virginia Beach, Va., System of electrical distribution. No. 1,362,844; Dec. 21; v. 281; p. 468.

Cardwell, Addison A., New York, N. Y., assignor to Pratt & Cady Company, Incorporated, Hartford, Conn. Heater. No. 1,340,153; May 18; v. 274; p. 416.

Cardwell, Walter T., Birmingham, Ala. Camera. No. 1,341,543; May 25; v. 274; p. 751.

Careaga, John T. and R. A., San Jose, Calif. Gun-barrel-testing device. No. 1,329,366; Feb. 3; v. 271; p. 5.

Careaga, John T., San Jose, Calif. Envelop. No. 1,335,655; Mar. 30; v. 272; p. 875.

Careaga, Juan T., San Jose, Calif. Needle. No. 1,341,357; May 25; v. 274; p. 715.

Careaga, Ramon A. (See Careaga, John T. and R. A.)

Carew-Gibson, John G., London, England. Wire-cutter. No. 1,360,620; Nov. 30; v. 280; p. 889.

Carey, Charles H., Salem, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Heel-press. No. 1,352,501; Sept. 14; v. 278; p. 187.

Carey Company, The. (See Brown, Ray G., assignor.)

Carey, Douglas M., Enid, Okla. Cutting mechanism for mowers and harvesters. No. 1,331,842; Feb. 24; v. 271; p. 589.

Digitized by Google

Carey, Ida N., Tuscarora, Nev. Rail tie and fastening. No. 1,345,126; June 29; v. 275; p. 933.
Carey, James A., assignor to Standard Stoker Company, Inc., New York, N. Y. Automatic stoking mechanism. No. 1,344,578; June 22; v. 275; p. 764.
Carey, James P., Brooklyn, N. Y. Talking-machine register. No. 1,359,962; Nov. 23; v. 280; p. 691.
Carey, Le Grand G., Cleveland, Ohio. Grading-machine. No. 1,356,038; Oct. 19; v. 279; p. 405.
Carey, Philip, Manufacturing Company, The. (See Moeller, William J., assignor.)
Carey, Philip Manufacturing Company, The. (See Steffens, Walter L., assignor.) (Reissue.)
Carey, Philip S., Manufacturing Co., The. (See Bowman, Ford C., assignor.)
Carhart, Herbert A., Syracuse, assignor to Remington Typewriter Company, Ilion, N. Y. Combined typewriting and computing machine. No. 1,329,867; Feb. 3; v. 271; p. 5.
Carhart, Linden P., Brooklyn, N. Y., and S. Shaughnessy, Jersey City, N. J. Line-indicating device for typewriters. No. 1,346,115; July 13; v. 276; p. 217.
Carichoff, Eugene B., Schenectady, N. Y., assignor to General Electric Company. Motor-control system. No. 1,337,040; Apr. 13; v. 273; p. 314.
Carl, Benjamin, Springfield, Mo. Automatic gear-shift for motor-vehicles. No. 1,354,724; Oct. 5; v. 279; p. 56.
Carl, Reinhold A., Elgin, Tex. Combination-flue. No. 1,328,647; Jan. 20; v. 270; p. 430.
Carland, Charles T., Cleveland, Ohio. Rail-support. No. 1,351,201; Aug. 31; v. 277; p. 831.
Cariberg, Carl G., Omaha, Nebr. Shaft-locking means for differential gears. No. 1,361,963; Dec. 14; v. 281; p. 244.
Carleton, Charles R. and G. W., New York, N. Y. Automatic light-regulator for motion-picture apparatus. No. 1,331,979; Feb. 24; v. 271; p. 614.
Carleton, Gideon W. (See Carleton, C. R. and G. W.)
Carleton, Paul W. (See Lamb, A. B., Miller, and Carleton.)
Carlin, Alfred J., St. Paul, Minn. Non-refillable bottle. No. 1,340,373; May 18; v. 274; p. 456.
Carlin, Arvid F., New York, N. Y. Shelf-support. No. 1,331,621; Feb. 24; v. 271; p. 547.
Carlin, Arvid F., New York, N. Y. Toy pistol. No. 1,346,938; July 20; v. 276; p. 439.
Carline, Robert L., Pittsburgh, Pa. Traction-gripping device. No. 1,348,697; Aug. 3; v. 277; p. 110.
Carlisle, Bert, Santa Ana, Calif. Aeroplane. No. 1,336,678; Apr. 13; v. 273; p. 244.
Carlisle, Bert, Santa Ana, Calif. Direction-indicator for automobiles. No. 1,353,023; Sept. 14; v. 278; p. 291.
Carlisle, Bert, Santa Ana, Calif. Automatically-locking hairpin. No. 1,357,271; Nov. 2; v. 280; p. 14.
Carlisle, Fred B., Andover, Mass., assignor to J. M. Gilbert, New York, N. Y. Pneumatic-tire casing and making same. No. 1,345,994; July 6; v. 276; p. 132.
Carlisle, Fred B., Andover, Mass., assignor to J. M. Gilbert, New York, N. Y. Apparatus for making pneumatic-tire casings. No. 1,345,995; July 6; v. 276; p. 132.
Carlisle, Fred B., Andover, Mass., assignor to J. M. Gilbert, New York, N. Y. Apparatus for use in the manufacture of pneumatic-tire casings. No. 1,345,996; July 6; v. 276; p. 132.
Carlisle, Fred B., Andover, Mass., assignor to J. M. Gilbert, New York, N. Y. Casing for pneumatic tires. No. 1,345,997; July 6; v. 276; p. 132.
Carlisle, Fred B., Andover, Mass., assignor to J. M. Gilbert, New York, N. Y. Casing for pneumatic tires and making same. No. 1,345,998; July 6; v. 276; p. 132.
Carlisle, George J., Chicago, Ill. Sound-transmitting appliance. No. 1,356,599; Oct. 26; v. 279; p. 562.
Carlisle, Marion N., Appleby, Tex. Planter. No. 1,347,441; July 20; v. 276; p. 538.
Carlisle, William A. (See Kingkenney, Lucius A., assignor.)
Carll, Addison B., New York, N. Y. Bit-chuck. No. 1,363,953; Dec. 28; v. 281; p. 722.
Carll, Addison B., New York, N. Y. Ratchet mechanism for braces, drills, etc. No. 1,363,954; Dec. 28; v. 281; p. 723.
Carlon, William C., Stockton, Calif. Battery-indicator. No. 1,338,170; Apr. 27; v. 273; p. 671.
Carlsen, Albert C., Pocatello, Idaho. Chain-tightener. No. 1,336,679; Apr. 13; v. 273; p. 244.
Carlsen, Axel, Lyngby, near Copenhagen, Denmark. Apparatus for producing driving-belts. No. 1,346,700; July 13; v. 276; p. 333.
Carlsen, Eugene S., Chicago, Ill. Hair-clipper. No. 1,342,096; June 1; v. 275; p. 95.
Carlsen, Eugene S., Chicago, Ill. Hair-clipper. No. 1,342,097; June 1; v. 275; p. 95.
Carlsen, Eugene S., Chicago, Ill. Hair-clipper. No. 1,355,309; Oct. 12; v. 279; p. 223.
Carlslund, Niels P. J. C., West New York, N. J. Anti-slipping device for shoes. No. 1,362,225; Dec. 14; v. 281; p. 296.
Carlson, Albert B. (See Carlson, Elmer C., assignor.)
Carlson, Albert H., Butte City, Calif. Resilient wheel. No. 1,344,986; June 29; v. 275; p. 906.
Carlson, Andrew H., assignor to Presteel Mfg. Company, Bridgeport, Conn. Adjustable holder. No. 1,335,724; Apr. 6; v. 273; p. 4.
Carlson, Axel S., Denver, Colo. Metal-tempering compound. No. 1,362,924; Dec. 21; v. 281; p. 482.
Carlson, C. A., administrator. (See Carlson, John A.)
Carlson, Carl A., Bridgeport, Conn. Combination chair and crib. No. 1,359,671; Nov. 23; v. 280; p. 633.
Carlson, Carl A., Bridgeport, Conn. Device for expressing blood from meat. No. 1,360,882; Nov. 30; v. 280; p. 940.
Carlson, Carl K., Everett, Wash. Box or case truck. No. 1,337,438; Apr. 20; v. 273; p. 463.
Carlson, Charles G., Chicago, Ill. Clothespole. No. 1,326,911; Jan. 6; v. 270; p. 5.
Carlson, Charles J. (See Larson, L. M., and Carlson.)
Carlson, Edward P., Seattle, Wash. Hydraulic pump. No. 1,353,216; Sept. 21; v. 278; p. 388.
Carlson, Edwin W. (See Bloom, A. L., and Carlson.)
Carlson, Elmer C., assignor to A. B. Carlson, St. Paul, Minn. Coupling. No. 1,355,450; Oct. 12; v. 279; p. 250.
Carlson, Emanuel. (See Richard, M. W., and Carlson.)
Carlson, Emilia A. (See Carlson, John A., assignor.)
Carlson, Frederick E., New Britain, Conn. Spark-plug. No. 1,362,392; Dec. 14; v. 281; p. 328.
Carlson, Frederick E., assignor to Landers, Frary & Clark, New Britain, Conn. Detachable handle. No. 1,350,641; Aug. 24; v. 277; p. 660.
Carlson, Gustav A., assignor to The Boye Needle Company, Chicago, Ill. Can-opener. No. 1,336,126; Apr. 6; v. 273; p. 80.
Carlson, Herman, Waite Park, Minn. Pipe-wrench. No. 1,332,103; Feb. 24; v. 271; p. 637.
Carlson, John. (See Johnson, Dolph, assignor.)
Carlson, John A., deceased; C. A. Carlson, administrator, assignor to E. A. Carlson, Idaho Falls, Idaho. Line-square. No. 1,327,198; Jan. 6; v. 270; p. 60.
Carlson, John M., Sandstone, Minn. Car-door. No. 1,350,919; Aug. 24; v. 277; p. 713.
Carlson, Joseph, Abbotsford, Wis. Cloth-milk-strainer holder. No. 1,335,656; Mar. 30; v. 272; p. 875.
Carlson, Julius, and P. Pascucci, Meriden, Conn. Machine for making macaroni. No. 1,331,183; Feb. 17; v. 271; p. 444.
Carlson, Lawrence E., Huntington, Ind. Electric switch. No. 1,352,246; Sept. 7; v. 278; p. 102.
Carlson, Oscar B., Månsbo, Avesta, assignor to Aktiebolaget Carlit, Stockholm, Sweden. Ammonium perchlorate explosive. No. 1,327,985; Jan. 13; v. 270; p. 268.
Carlson, Oscar B., Avesta, assignor to Aktiebolaget Carlit, Stockholm, Sweden. Manufacturing ammonium perchlorates. No. 1,338,357; Apr. 27; v. 273; p. 707.
Carlson, Oscar F., Chicago, Ill. Center-support bearing. No. 1,347,077; July 20; v. 276; p. 466.
Carlson, Oscar F. S., Ljungaverk, assignor to Aktiebolaget Nitrogenium, Stockholm, Sweden. Manufacturing nitrogen compounds from carbids. No. 1,337,750; Apr. 20; v. 273; p. 528.
Carlson, Oscar T., Lindstrom, Minn. Combination-tool. No. 1,344,114; June 22; v. 275; p. 672.
Carlson, Philip, Bridgeport, Conn. Tail-gate-operating mechanism for dump-trucks. No. 1,332,424; Mar. 2; v. 272; p. 48.
Carlson, Richard T., Rosedale, Kans. Coil-unit and spark-plug tester. No. 1,335,219; Mar. 30; v. 272; p. 793.
Carlson, Thomas L. I., Bottineau, N. D. Protector for closet-seats. No. 1,363,085; Dec. 21; v. 281; p. 514.
Carlson, Wendell L., and E. C. Hanson, Washington, D. C. Electrotherapeutic apparatus. No. 1,338,812; May 4; v. 274; p. 30.
Carlstedt, Ragnar, Stockholm, Sweden. Shaft-coupling. No. 1,338,122; Apr. 27; v. 273; p. 668.
Carlstrand, Charles J., Minneapolis, Minn. Knockdown Christmas tree. No. 1,345,475; July 6; v. 276; p. 29.
Carlucci, Rocco T., West New York, assignor to Oscar Schmidt, Inc., Jersey City, N. J. Banjo. No. 1,339,318; May 4; v. 274; p. 123.
Carman, Edwin S., assignor to The Osborn Manufacturing Company, Cleveland, Ohio. Mechanism for making molds. No. 1,357,380; Nov. 2; v. 280; p. 34.
Carman, Frank V., Oakland, Calif. Work-holding cradle for spike-hole-plug machine. No. 1,328,492; Jan. 20; v. 270; p. 401.
Carman, Frank V., Oakland, Calif. Rail-profile instrument. No. 1,347,078; July 20; v. 276; p. 467.
Carmean, James H., Kansas City, Mo. Glove. No. 1,354,241; Sept. 28; v. 278; p. 637.
Carmer, James R., Wilmington, Del. Pin or bolt. No. 1,354,953; Oct. 5; v. 279; p. 101.
Carmichael, Robert E., Damon, Tex. Sampling. No. 1,346,939; July 20; v. 276; p. 439.
Carmichael, Wilbur J. (See Case, H. C. M., and Carmichael.)
Carmody, Harold J., Brooklyn Manor, assignor of one-half to J. A. Faurot, New York, N. Y. Internal-combustion rotary engine. No. 1,347,731; July 27; v. 276; p. 652.
Carmody, John C., Fitchburg, Mass. Attachment for automobile-controlling pedals. No. 1,342,372; June 1; v. 275; p. 148.
Carmody, Joseph A., Seattle, Wash. Ornamental bracket. No. 1,329,651; Feb. 3; v. 271; p. 57.

Digitized by Google

Carneal, Thomas D., Highland School District, Calif. Aeroplane construction. No. 1,355,088; Oct. 5; v. 279; p. 127.
Carnes, Charles A. (See Dohrmann, Frank C., assignor.)
Carnes, Sam D., Fort Worth, Tex. Automobile-signal. No. 1,351,283; Aug. 31; v. 277; p. 847.
Carney, George D., *et al.* (See Evans, William F., assignor.)
Carney, James A., Aurora, Ill. Hand-brake-operating mechanism. No. 1,328,493; Jan. 20; v. 270; p. 401.
Carney, James A., Aurora, Ill. Brake-operating mechanism. No. 1,328,494; Jan. 20; v. 270; p. 401.
Carney, Joseph, assignor to Paragon Binder Corporation, Newark, N. J. Loose-leaf binder. No. 1,328,561; Jan. 20; v. 270; p. 414.
Carney, Wilbur O. (See Lingle, George W., assignor.)
Carnle, Harry G., *et al.* (See Gaudie Charles R., assignor.)
Carns, Edmund B., Detroit, Mich. Aircraft. No. 1,340,154; May 18; v. 274; p. 416.
Carns, Edmund B., Detroit, Mich. Aircraft. No. 1,343,707; June 15; v. 275; p. 528.
Carolina Motor Company. (See Sills, Frederick R., assignor.)
Caron, Louis G., assignor to Universal Artificial Limb & Supply Co., Inc., Washington, D. C. Artificial hand and arm. No. 1,332,485; Mar. 2; v. 272; p. 59.
Caron, Martinus H. (See Clevenger, G. H., and Caron.)
Caron, Martinus H., Weltevreden, Java, Dutch East Indies, assignor to Clevenger & Caron, Washington, D. C. Treating nickel ores. No. 1,346,175; July 13; v. 276; p. 229.
Carothers, John N., Washington, D. C., assignor to N. D. Baker, Secretary of War, trustee. Fertilizer and making same. No. 1,350,591; Aug. 24; v. 277; p. 652.
Carothers, Robert M., Schenectady, N. Y., assignor to General Electric Company. Regulating system. No. 1,331,898; Feb. 24; v. 271; p. 599.
Carozza, Antonio T. (See Mace, Clement H., assignor.)
Carpenter, Albert J. (See Johnson, J. W., and Carpenter.)
Carpenter, Brigham, *et al.* (See Prisbrey, George W., assignor.)
Carpenter, Campbell C., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Terminal means for battery-plates. No. 1,336,127; Apr. 6; v. 273; p. 80.
Carpenter, Campbell C., and R. J. Ellis, assignors to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Battery-cell and vent means therefor. No. 1,336,506; Apr. 13; v. 273; p. 211.
Carpenter, Campbell C., and R. J. Ellis, assignors to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Battery-jar and cover. No. 1,336,507; Apr. 13; v. 273; p. 211.
Carpenter, Charles E., Postville, Iowa. Kiln. No. 1,349,185; Aug. 10; v. 277; p. 257.
Carpenter, Chester H. (See Cone, William H., assignor.)
Carpenter, Francis W., Greenwich, Conn. Feed-holder. No. 1,329,288; Jan. 27; v. 270; p. 579.
Carpenter, Frank G., Sioux City, Iowa. Hog-beater shaft attachment. No. 1,336,887; Apr. 13; v. 273; p. 284.
Carpenter, Harry F., and B. G. Neyland, Erie, Pa. Cable-ring. No. 1,363,455; Dec. 28; v. 281; p. 626.
Carpenter, Harry G. (See Krusemark, F. A., Funkhauser and Carpenter.)
Carpenter, Harry K., Clarksburg, W. Va. Concrete-mold. No. 1,363,391; Dec. 28; v. 281 p. 613.
Carpenter, Henry W., Key West, Fla., assignor, by mesne assignments, to P. Wilson. Spark-plug. No. 1,329,320; Jan. 27; v. 270; p. 584.
Carpenter, Isaac P., Waltham, Mass. Automobile-lock. No. 1,334,987; Mar. 30; v. 272; p. 750.
Carpenter, Isaac P., Waltham, Mass. Automobile-lock. No. 1,358,416; Nov. 9; v. 280; p. 298.
Carpenter, John W., Dayton, Wash. Carbureter. No. 1,332,319; Mar. 2; v. 272; p. 27.
Carpenter, Lawrence L. (See Smith, H., and Carpenter.)
Carpenter, Lee R., Cleveland, Ohio. Internal-combustion engine. No. 1,345,530; July 6; v. 276; p. 40.
Carpenter, Lee R., Cleveland, Ohio. Internal-combustion engine. No. 1,355,451; Oct. 12; v. 279; p. 251.
Carpenter, Lee R., Cleveland, Ohio. Internal-combustion engine. No. 1,355,452; Oct. 12; v. 279; p. 251.
Carpenter, Paul. (See Ellis, Ridsdale, assignor.)
Carpenter, Robert H., Chicago, Ill. Adjustable clamp. No. 1,354,378; Sept. 28; v. 278; p. 665.
Carpenter, Teunauski Z., Providence, R. I. Gage. No. 1,329,456; Feb. 3; v. 271; p. 21.
Carr, Charles B., New York, N. Y. Game device. No. 1,328,711; Jan. 20; v. 270; p. 441.
Carr, Charles M., San Diego, Calif. Buttonhole-making machine. No. 1,333,832; Mar. 16; v. 272; p. 426.
Carr, Clyde M., Fort Scott, Kans. Railway-switch stand. No. 1,336,195; Apr. 6; v. 273; p. 93.
Carr, Daniel W., Lakewood, Ohio. Adjustable reamer. No. 1,359,963; Nov. 23; v. 280; p. 691.
Carr, Edward G., Milwaukee, Wis., assignor to The Lakewood Engineering Company, Cleveland, Ohio. Method and apparatus for cleaning conveyer-belts. No. 1,331,484; Feb. 24; v. 271; p. 520.
Carr, Edward G., Milwaukee, Wis., assignor to The Lakewood Engineering Company, Cleveland, Ohio. Ball. No. 1,347,891; July 27; v. 276; p. 684.
Carr, Edward G., assignor to The Lakewood Engineering Company, Cleveland, Ohio. Material-transferring apparatus. No. 1,349,813; Aug. 17; v. 277; p. 453.
Carr Fastener Company. (See Carr, Fred S., assignor.)
Carr Fastener Company. (See Mackenzie, Cecilia M., and J. E., assignors.) (Reissue.)
Carr Fastener Company. (See Carr, Moses F., assignor.)
Carr, Frank R., Xenia, Ohio. Piston-ring. No. 1,351,369; Aug. 31; v. 277; p. 865.
Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,335,365; Mar. 30; v. 272; p. 821.
Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,335,366; Mar. 30; v. 272; p. 821.
Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,337,115; Apr. 13; v. 273; p. 328.
Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,337,116; Apr. 13; v. 273; p. 328.
Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,337,117; Apr. 13; v. 273; p. 328.
Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,337,118; Apr. 13; v. 273; p. 328.
Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,337,119; Apr. 13; v. 273; p. 328.
Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Snap-fastener. No. 1,341,043; May 25; v. 274; p. 655.
Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Cuff-link. No. 1,353,109; Sept. 14; v. 278; p. 307.
Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,353,110; Sept. 14; v. 278; p. 308.
Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,353,111; Sept. 14; v. 278; p. 308.
Carr, George R. (See Gorton, A. C., and Carr.)
Carr, James H. A., McKees Rocks, Pa. Wrench. No. 1,360,176; Nov. 23; v. 280; p. 733.
Carr, James H. A., McKees Rocks, Pa. Wrench. No. 1,362,845; Dec. 22; v. 281; p. 468.
Carr, John D. (See McGarry, H. S., and Carr.)
Carr, John H., Alhambra, Calif. Flying-machine. No. 1,349,942; Aug. 17; v. 277; p. 477.
Carr, Max E., Chicago, Ill. Toy vehicle. No. 1,345,127; June 29; v. 275; p. 934.
Carr, Moses F., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Stud. No. 1,335,220; Mar. 30; v. 272; p. 798.
Carr, Oma, New York, N. Y. Tube suspension. No. 1,327,144; Jan. 6; v. 270; p. 50.
Carr, Paul H., Washington, D. C. Collapsible paper cup. No. 1,351,412; Aug. 31; v. 277; p. 874.
Carr, Rimmon J., Petoskey, Mich. Crosstie. No. 1,349,814; Aug. 17; v. 277; p. 453.
Carr, Samuel J., assignor of one-third to C. C. Way, Muskogee, Okla. Egg-tray for incubators. No. 1,334,225; Mar. 16; v. 272; p. 499.
Carracino, Gennaro, Newark, N. J. Horseshoe. No. 1,335,555; Mar. 30; v. 272; p. 856.
Carrau, Edward, Moxee City, Wash. Sickle-bar attachment for mowing-machines. No. 1,354,242; Sept. 28; v. 278; p. 637.
Carrau, Edward, assignor of one-half to W. F. Walbach, Chicago, Ill. Tire. No. 1,336,817; Apr. 13; v. 273; p. 271.
Carrette, Armand, Paris, France. Screwing apparatus. No. 1,353,024; Sept. 14; v. 278; p. 291.
Carrey, John O., assignor to Carrey Rotary Engine Company, St. Louis, Mo. Pressure-generating system. No. 1,337,751; Apr. 20; v. 278; p. 528.
Carrey, John O., assignor to Carrey Rotary Engine Company, St. Louis, Mo. Engine. No. 1,344,331; June 22; v. 275; p. 715.
Carrey, John O., assignor to Carrey Rotary Engine Company, St. Louis, Mo. Burner. No. 1,349,319; Aug. 10; v. 277; p. 284.
Carrey Rotary Engine Company. (See Carrey, John O., assignor.)
Carrier, Albert H., Asheville, N. C., assignor of one-half to E. W. Grove, St. Louis, Mo. Means for closing and fastening windows. No. 1,330,237; Feb. 10; v. 271; p. 198.
Carrier, Albert H., Asheville, N. C., assignor of one-half to E. W. Grove, St. Louis, Mo. Shelter for outside sleeping-beds. No. 1,360,883; Nov. 30; v. 280; p. 940.
Carrier, Courtland F., Jr., Charleston, W. Va., assignor to The Vulcan Detinning Company, Sewaren, N. J. Detinning. No. 1,358,136; Nov. 9; v. 280; p. 241.
Carrier Engineering Corporation. (See Stacey, Alfred E., Jr., assignor.)
Carrier, Joseph G., Chicoutimi, Quebec, Canada. Pulp-machine. No. 1,344,173; June 22; v. 275; p. 683.

Digitized by Google

Alphabetical list of patentees—Continued.

Carrier, Willis H., assignor to Buffalo Forge Co., Buffalo, N. Y. Method of and apparatus for drying, conditioning, and regulating the moisture content of hygroscopic materials. No. 1,330,238; Feb. 10; v. 271; p. 199.
Carrigan, John A., New Castle, Pa. Attachment for metal-coating machines. No. 1,348,478; Aug. 3; v. 277; p. 68.
Carriker, John W., Harrisburg, N. C. Self-lubricating hook. No. 1,358,616; Nov. 9; v. 280; p. 337.
Carroll, Andrew L., assignor of one-sixth of O. Rowlett, one-sixth to J. W. Chambers, and one-sixth to J. W. Bronaugh, St. Louis, Mo. Car-wheel. No. 1,336,128; Apr. 6; v. 273; p. 80.
Carroll, Andrew L., assignor of one-half to G. McKenzie, St. Louis, Mo. Shock-absorbing wheel. No. 1,350,642; Aug. 24; v. 277; p. 661.
Carroll, Basil M., Rising Star, Tex. Snap-hook. No. 1,329,071; Jan. 27; v. 270; p. 539.
Carroll, Edward J., New York, N. Y. Cashier-protector. No. 1,355,890; Oct. 19; v. 279; p. 376.
Carroll, Emil J., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Electric controller. No. 1,350,003; Aug. 17; v. 277; p. 400.
Carroll, Frank, *et al.* (See Hoyt, Royal E., assignor.)
Carroll, Frank, *et al.* (See Lewis, Jesse D., assignor.)
Carroll, Fred M., assignor to The National Cash Register Company, Dayton, Ohio. Printing mechanism for cash-registers. No. 1,338,903; May 4; v. 274; p. 47.
Carroll, Fred M., Endicott, N. Y., assignor to International Time Recording Company of New York. Recorder. No. 1,358,284; Nov. 9; v. 280; p. 269.
Carroll, Fred M., and R. M. Blakely, assignors to The National Cash Register Company, Dayton, Ohio. Sorting and accounting machine. No. 1,361,791; Dec. 7; v. 281; p. 162.
Carroll, James H., Atlanta, Ga. Sanitary bottled-drink-serving apparatus. No. 1,359,328; Nov. 16; v. 280; p. 520.
Carroll, James H., Atlanta, Ga., assignor to Liberty Self Service Corporation, Charlotte, N. C. Store self-service system. No. 1,347,936; July 27; v. 276; p. 693.
Carroll, John D., assignor to Turbo Rotary Engine Co., Evansville, Ind. Rotary engine. No. 1,342,496; June 8; v. 275; p. 225.
Carroll, John D., West Lafayette, assignor to Turbo Rotary Engine Company, Evansville, Ind. Piston-vane. No. 1,354,281; Sept. 28; v. 278; p. 646.
Carroll, John D., West Lafayette, assignor to Turbo Rotary Engine Company, Evansville, Ind. Rocker for piston-vanes. No. 1,354,282; Sept. 28; v. 278; p. 646.
Carroll, Louis W., Riverside, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,337,752; Apr. 20; v. 273; p. 523.
Carroll, Lycurgus C., North Manchester, Ind. Attachment for wire fences. No. 1,332,603; Mar. 2; v. 272; p. 82.
Carroll, Patrick, New York, N. Y. Automatic air-vent. No. 1,336,280; Apr. 6; v. 273; p. 108.
Carroll, Stewart J., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-nitrate composition and making same. No. 1,354,725; Oct. 5; v. 279; p. 56.
Carroll, Stewart J., assignor to Eastman Kodak Company, Rochester, N. Y. Mixed cellulose-ester composition and making same. No. 1,354,726; Oct. 5; v. 279; p. 56.
Carroll, Willard R., Derby, Conn. Making metal bands or rings. No. 1,351,202; Aug. 31; v. 277; p. 831.
Carroll, William J., assignor to The Cincinnati Time Recorder Company, Cincinnati, Ohio. Time-recorder. No. 1,354,801; Oct. 5; v. 279; p. 72.
Carrow, Edmund, Chicago, Ill. Brake for locomotive-cranes. No. 1,356,486; Oct. 19; v. 279; p. 493.
Carruthers, Myrtle, *et al.* (See Brendle, Frank F., assignor.)
Carruthers, Roy C., *et al.* (See Brendle, Frank F., assignor.)
Carscadin, Charles A., assignor, by mesne assignments, to American Steel Foundries, Chicago, Ill. Yoke for draft-gears. No. 1,350,436; Aug. 24; v. 277; p. 620.
Carscadin, Charles A., and G. A. Woodman, assignors, by mesne assignments, to American Steel Foundries, Chicago, Ill. Yoke for draft-gears. No. 1,356,266; Oct. 19; v. 279; p. 451.
Carson, Alexander A., Braintree, Mass. Flushing-valve. No. 1,329,109; Jan. 27; v. 270; p. 546.
Carson, Clarence, New Rochelle, N. Y., assignor to H. W. Johns-Manville Company. Register-reset. No. 1,344,288; June 22; v. 275; p. 706.
Carson, Clark, Davenport, Iowa. Tractor attachment for automobiles. No. 1,333,963; Mar. 16; v. 272; p. 450.
Carson, Clark, Davenport, Iowa. Radiating system for internal-combustion motors. No. 1,336,613; Apr. 13; v. 273; p. 282.
Carson, Earl L., Merlin, Oreg. Nut-lock. No. 1,334,887; Mar. 23; v. 272; p. 671.
Carson, Edwin F., Philadelphia, Pa. Milk-bottle and cap. No. 1,333,245; Mar. 9; v. 272; p. 254.
Carson, Florence V., *et al.* (See Aschinger, Harry W., assignor.)
Carson, Helen S., Stamford, Conn. Heater for washing-machines. No. 1,341,109; May 25; v. 274; p. 667.
Carson, Helen S., Stamford, Conn. Thread-cutter. No. 1,349,320; Aug. 10; v. 277; p. 284.
Carson, Helen S., Stamford, Conn. Trunk appliance. No. 1,361,748; Dec. 7; v. 281; p. 154.
Carson, Henry A., St. Joseph, Mo. Internal-combustion engine. No. 1,331,695; Feb. 24; v. 271; p. 560.
Carson, Jasper V., Gunwald, Iowa. Oiling system for automobiles. No. 1,362,777; Dec. 21; v. 281; p. 455.
Carson, Jesse R., Lawrence, Kans. Mousetrap. No. 1,342,098; June 1; v. 275; p. 95.
Carson, John R., Montclair, N. J., assignor to American Telephone and Telegraph Company. Duplex translating-circuits. No. 1,343,306; June 15; v. 275; p. 448.
Carson, John R., Montclair, N. J., assignor to American Telephone and Telegraph Company. Duplex translating-circuits. No. 1,343,307; June 15; v. 275; p. 448.
Carson, John R., Montclair, N. J., assignor to American Telephone and Telegraph Company. Duplex translating-circuits. No. 1,343,308; June 15; v. 275; p. 448.
Carson, Pirie, Scott & Co., The. (See Boyd, Roger J., assignor.)
Carson, Robert S., assignor to Dow Wire & Iron Works, Louisville, Ky. Luggage-carrier for bicycles. No. 1,359,329; Nov. 16; v. 280; p. 520.
Carson, Walter W., *et al.* (See Aschinger, Harry W., assignor.)
Carson, Wilfred P., Greensboro, Calif. Attachment for grain or grist mills. No. 1,327,700; Jan. 13; v. 270; p. 215.
Carstarphen, Frederick C., Trenton, N. J., assignor to The American Steel and Wire Company of New Jersey. Tripping device for cableway-buckets. No. 1,331,622; Feb. 24; v. 271; p. 547.
Carstarphen, Frederick C., Trenton, N. J., assignor to The American Steel and Wire Company of New Jersey. Load handling and measuring device. No. 1,341,297; May 25; v. 274; p. 704.
Carstens, Alexander B., Monterey, Mexico, assignor to The American Metal Company, Limited, New York, N. Y. Revolving separator. No. 1,331,802; Feb. 24; v. 271; p. 581.
Carstens, Alexander B., Monterey, Mexico, assignor to The American Metal Company, Limited, New York, N. Y. Open-side water-jacket for smelting-furnaces. No. 1,331,803; Feb. 24; v. 271; p. 581.
Carstens, Frank P. (See Simpson, E. G., Schmidt, and Carstens.)
Carswell, William W., *et al.* (See Golata and Roberts, assignors.)
Cartasso, Giacomo, Oakland, Calif. Spring-wheel. No. 1,344,679; June 22; v. 275; p. 764.
Carter, Arthur R., Hammond, La. Water-carrying hood for steam-automobiles. No. 1,335,090; Mar. 30; v. 272; p. 770.
Carter, C. C., *et al.* (See Pedersen, Peder, assignor.)
Carter, Charlie O., Anderson, assignor to Draper Corporation, Hopedale, Mass. Tension for spoolers. No. 1,327,022; Jan. 6; v. 270; p. 27.
Carter, Charles W., Highland Park, Mich. Dump-wagon. No. 1,331,899; Feb. 24; v. 271; p. 599.
Carter, Clarence W., Minneapolis, Minn. Machine for separating wild peas from wheat, &c. No. 1,328,819; Jan. 27; v. 270; p. 490.
Carter, Clark E. (See Schopflocher, Siegfried, assignor.)
Carter, Daniel. (See Roach, P. J., and Carter.)
Carter, David S., assignor to Larned, Carter & Company, Detroit, Mich. Overalls-pocket. No. 1,336,614; Apr. 13; v. 273; p. 232.
Carter, Dixon S., Bloomington, Ill. Pulverizer. No. 1,333,159; Mar. 9; v. 272; p. 238.
Carter, Douglass R., Washington, D. C. Demountable rim. No. 1,329,289; Jan. 27; v. 270; p. 579.
Carter, Evershed. (See Carter, Frank and E.)
Carter, Frank, Minneapolis, Minn., and D. McLain, Milwaukee, Wis. Open-hearth furnace. No. 1,331,804; Feb. 24; v. 271; p. 581.
Carter, Frank and E., assignors of one-third to G. M. Blackstone, Stamford, England. Means for igniting the charge in internal-combustion engines. No. 1,345,999; July 6; v. 276; p. 133.
Carter, Frank and E., assignors of one-third to G. M. Blackstone, Stamford, England. Means for starting and reversing multiple-cylinder internal-combustion engines. No. 1,361,681; Dec. 7; v. 281; p. 141.
Carter, Fred, Seattle, Wash. Burglar-alarm. No. 1,357,205; Oct. 26; v. 279; p. 680.
Carter, Frederic E., assignor to Baker & Company, Inc., Newark, N. J. Alloy. No. 1,355,811; Oct. 19; v. 279; p. 360.
Carter, Frederic E., assignor to Baker & Company, Inc., Newark, N. J. Alloy. No. 1,357,272; Nov. 2; v. 280; p. 14.
Carter, George M., Findlay, Ohio, assignor of one-half to R. H. Rosenberg. Vehicle-brake. No. 1,347,990; July 27; v. 276; p. 703.
Carter, Harry G., Northfield, N. H. Business-record and income-tax book. No. 1,350,854; Aug. 24; v. 277; p. 701.
Carter, Horace J., and C. Taylor, Wilmington, Del. Piling-machine. No. 1,328,615; Jan. 20; v. 270; p. 424.
Carter, Howard O., Detroit, Mich. Headlight-deflector. No. 1,352,579; Sept. 14; v. 278; p. 203.
Carter, James A., St. Louis, Mo. Wheel and axle construction. No. 1,349,559; Aug. 17; v. 277; p. 404.

Digitized by Google

Carter, James T., Baltimore, Md. Melting-pot and metal-injecting mechanism for type-casting machines. No. 1,346,077; July 6; v. 276; p. 148.
Carter, James W., Jr., Abilene, Tex. Indicator. No. 1,349,321; Aug. 10; v. 277; p. 284.
Carter, John P., Carter, Mont. Bolster-stirrup. No. 1,350,780; Aug. 24; v. 277; p. 687.
Carter, John T., Jefferson City, Mo. Dish-washing device. No. 1,328,942; Jan. 27; v. 270; p. 515.
Carter, Joseph, assignor to David W. Little, Saskatoon, Saskatchewan, Canada. Invisible door-closing strap. No. 1,358,519; Nov. 9; v. 280; p. 318.
Carter, Lee E., St. Maries, Idaho. Dry-kiln truck for emptying and refilling dry-kilns. No. 1,337,439; Apr. 20; v. 273; p. 463.
Carter-Long Magneto Company. (See Rosner, Rudolf, assignor.)
Carter, Martin E., Philadelphia, Pa. Strainer for sugar-juice. No. 1,343,078; June 8; v. 275; p. 341.
Carter, Maurice A., Gilby, N. D. Composition of matter. No. 1,348,479; Aug. 3; v. 277; p. 68.
Carter, Owen J., Memphis, Mo. Latch. No. 1,330,168; Feb. 10; v. 271; p. 186.
Carter, P. L. (See Mills, Anson C., assignor.)
Carter, Ray M., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Apparatus for purifying iodin. No. 1,329,457; Feb. 3; v. 271; p. 22.
Carter, Robert A., Jr., Bay Ridge, N. Y. Sampling a liquid, vaporous, or gaseous product. No. 1,364,035; Dec. 28; v. 281; p. 738.
Carter, Thomas, Belton, S. C. Fireplace heater and cooker. No. 1,352,048; Sept. 7; v. 278; p. 65.
Carter, Walter L., Ontario, Calif. Convertible automobile-body. No. 1,343,655; June 15; v. 275; p. 517.
Carter, Walter R. (See Land, W. M., and Carter.)
Carter, William, Company, The. (See Lyons, Harriet R., assignor.)
Carter, William C., Radnor, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Treating fabric. No. 1,327,804; Jan. 13; v. 270; p. 253.
Cartter, William G. (See Arthur, E. D. and Cartter.)
Cartmill, Holley, Spokane, Wash. Combined spark-plug and testing device. No. 1,355,310; Oct. 12; v. 279; p. 224.
Cartwright, Andrew, Blanket, Tex. Aeroplane. No. 1,329,368; Feb. 3; v. 271; p. 5.
Cartwright, David J., New York, N. Y. Detonator for high-explosive shells. No. 1,331,623; Feb. 24; v. 271; p. 547.
Cartwright, Ernest O., assignor to C. F. Gardner, Springfield, Ohio. Portable pumping apparatus. No. 1,331,239; Feb. 17; v. 271; p. 454.
Cartwright, Ernest O., assignor to C. F. Gardner, Springfield, Ohio. Portable pumping apparatus. No. 1,331,900; Feb. 24; v. 271; p. 600.
Cartwright, Ernest O., assignor to C. F. Gardner, Springfield, Ohio. Tank for portable pumping apparatus and the like. No. 1,332,244; Mar. 2; v. 272; p. 13.
Cartwright, Ernest O., assignor to C. F. Gardner, Springfield, Ohio. Injector or ejector. No. 1,341,010; May 25; v. 274; p. 648.
Cartwright, Ernest O., assignor to C. F. Gardner, Springfield, Ohio. Portable pumping apparatus. No. 1,345,531; July 6; v. 276; p. 40.
Cartwright, William F., Philadelphia, Pa. Retaining-hinge for bureau-mirrors. No. 1,356,039; Oct. 19; v. 279; p. 405.
Carty, Alton B., Washington, D. C. Printer's quoin. No. 1,335,480; Mar. 30; v. 272; p. 842.
Carvalho, David N., New York, N. Y. Process and composition for the protection of monetary and other documents. No. 1,353,720; Sept. 21; v. 278; p. 489.
Carvalho, Leslie R. N., *et al.* (See Russell, Robert A., assignor.)
Carver, Albert E., and H. Hildenbiddle, Wheeling, W. Va. Safety control means for furnace-charging apparatus. No. 1,355,453; Oct. 12; v. 279; p. 251.
Carver Cotton Gin Company. (See McLean, Robert W., assignor.)
Carver, Don C., Cambridge, Ohio. Automatic safety gas-valve. No. 1,346,000; July 6; v. 276; p. 133.
Carver, James H., Schenectady, N. Y., assignor to General Electric Company. Gear, roll, and the like. No. 1,340,011; May 11; v. 274; p. 331.
Cary, James H., and J. D. McMurry, assignors of one-third to J. E. Cary, Memphis, Tenn. Combination draft-collar and hame. No. 1,331,454; Feb. 17; v. 271; p. 494.
Cary, John E. (See Cary, J. H., and McMurry, assignors.)
Cary Manufacturing Company. (See Cary, S. C., and Ragona, assignors.)
Cary Manufacturing Co. (See Ragona, Vincent, assignor.)
Cary, Samuel S., assignor of one-half to L. S. Haas, Opelousas, La. Agricultural implement. No. 1,334,347; Mar. 23; v. 272; p. 569.
Cary, Spencer C., Brooklyn, N. Y. Welding. No. 1,326,912; Jan. 6; v. 270; p. 5.
Cary, Spencer C., Brooklyn, N. Y. Means for cleaning metal preparatory to welding. No. 1,326,913; Jan. 6; v. 270; p. 5.
Cary, Spencer C., Brooklyn, N. Y. Divergent saw-tooth fastener. No. 1,328,911; Jan. 27; v. 270; p. 509.
Cary, Spencer C., and V. Ragona, assignors to Cary Manufacturing Company, Brooklyn, N. Y. Means for binding shipping-packages. No. 1,350,137; Aug. 17; v. 277; p. 515.
Casale Safety Device Company. (See Shaver, Archibald G., assignor.)
Casanova, Luis G., Caguas, Porto Rico, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,362,079; Dec. 14; v. 281; p. 267.
Casarotti, R. A., *et al.* (See Gunn, Charles H., assignor.)
Case, Arthur F., assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Grab-bucket. No. 1,331,455; Feb. 17; v. 271; p. 495.
Case, Augustus K., Tillamook, Oreg. Bushing-removing tool. No. 1,357,146; Oct. 26; v. 279; p. 669.
Case, Egerton R., Toronto, Ontario, Canada. Safety device for heavier-than-air bodies. No. 1,341,783; June 1; v. 275; p. 34.
Case, Francis M., Cleveland, Ohio. Teakettle. No. 1,338,553; Apr. 27; v. 273; p. 743.
Case, Francis M., Cleveland, assignor to The Enterprise Manufacturing Company, Akron, Ohio. Fishing-reel. No. 1,344,289; June 22; v. 275; p. 706.
Case, Francis M., Cleveland, Ohio, assignor to The Enterprise Manufacturing Company, Akron, Ohio. Fishing-reel. No. 1,345,072; June 29; v. 275; p. 923.
Case, Frank E., Schenectady, N. Y., assignor to General Electric Company. Automatic battery-charging system. No. 1,347,323; July 20; v. 276; p. 515.
Case, Frank E., Schenectady, N. Y., assignor to General Electric Company. Controller for electric motors. No. 1,352,247; Sept. 7; v. 278; p. 103.
Case, Harold C. M., and W. J. Carmichael, Urbana, Ill. Stock-feeding device. No. 1,346,878; July 20; v. 276; p. 427.
Case, Henry C. (See Hunt, Paul B., assignor.)
Case, Henry M., Cincinnati, Ohio. Sterilizer. No. 1,338,069; Apr. 27; v. 273; p. 653.
Case, Homer W., Pittsburgh, Pa., assignor to Buster Manufacturing Company. Toy vehicle. No. 1,333,292; Mar. 9; v. 272; p. 263.
Case, J. I., Plow Works. (See Michael, Clement W., assignor.)
Case, J. I., Threshing Machine Company. (See Crawford, John F., assignor.)
Case, J. I., Threshing Machine Company. (See Dugan, Thomas, assignor.)
Case, J. I., Threshing Machine Company. (See Krause, Norman R., assignor.)
Case, Theodore W., Scipio, N. Y. Resistance element. No. 1,342,842; June 8; v. 275; p. 294.
Case, William A., Plainfield, N. J., assignor of two-thirds to S. Gottschall, and one-third to Eichengran Sales Corporation, New York, N. Y. Testing apparatus for battery-cells. No. 1,358,827; Nov. 16; v. 280; p. 424.
Case, William E., assignor to H. B. Herron, Columbus, Ohio. Pump attachment for automobiles. No. 1,355,212; Oct. 12; v. 279; p. 204.
Case, William H., Robbinsdale, Minn. Direction-signal for vehicles. No. 1,344,618; June 29; v. 275; p. 837.
Case, William W., Frenchtown, assignor to W. H. Fulper, Flemington, N. J. Centrifugal gun. No. 1,357,028; Oct. 26; v. 279; p. 646.
Caserto, Sam, Stollings, W. Va. Miner's lamp. No. 1,359,330; Nov. 16; v. 280; p. 521.
Casey, Dennis F. (See Cowen, Mert, assignor.)
Casey, John A., St. Paul, Minn. Antifriction-transfer for shoes. No. 1,334,991; Mar. 30; v. 272; p. 751.
Casey, Kellogg K. V. (See Woodbridge, R. G., Jr., Casey, and Henning.)
Casey, Kellogg K. V., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Container for explosives. No. 1,329,503; Feb. 3; v. 271; p. 31.
Casey, Ralph R., Seattle, Wash. Food curing and smoking apparatus. No. 1,337,974; Apr. 20; v. 273; p. 566.
Casey, Thomas B., Boston, Mass. Internal-combustion engine. No. 1,346,001; July 6; v. 276; p. 133.
Casey, William P., assignor to The Router Manufacturing Company, Oshkosh, Wis. Sash-tool or the like. (Reissue.) No. 15,016; Dec. 28; v. 281; p. 743.
Casgrain, Louis A., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Work-support. No. 1,344,290; June 22; v. 275; p. 706.
Casgrain, Louis A., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Lasting-machine. No. 1,358,137; Nov. 9; v. 280; p. 241.
Casgrain, Louis A., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for inserting fastenings. No. 1,361,013; Dec. 7; v. 281; p. 6.
Casgrain, Louis A., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Manufacture of rubber footwear. No. 1,363,308; Dec. 28; v. 281; p. 598.
Cash, A. W., Co. (See Cash, Arthur W., assignor.)
Cash, Arthur L. (See Short, C. R., and Cash.)
Cash, Arthur W., assignor to A. W. Cash Co., Decatur, Ill. Pressure and vacuum relief. No. 1,342,985; June 8; v. 275; p. 322.

Digitized by Google

Cash Safety Window Company. (See Hecht, Joseph, assignor.)

Cashman, Clarence G., Waynesboro, Pa. Reamer-head. No. 1,332,802; Mar. 2; v. 272; p. 120.

Cashman, Clarence G., assignor to Cashman Tool Company, Waynesboro, Pa. Detachable-tooth cutter. No. 1,340,474; May 18; v. 274; p. 475.

Cashman, Clarence G., assignor of one-half to J. B. Eader, Waynesboro, Pa. Vise. No. 1,344,862; June 29; v. 275; p. 883.

Cashman, Clarence G., assignor of one-half to J. B. Eader, Waynesboro, Pa. Universal variable chuck. No. 1,357,843; Nov. 2; v. 280; p. 123.

Cashman Tool Company. (See Cashman, Clarence G., assignor.)

Caskey, Samuel S., Philadelphia, Pa., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Spark-arrester. No. 1,339,495; May 11; v. 274; p. 233.

Caskey, William S., assignor to The National Dry Kiln Company, Indianapolis, Ind. Steel-column footing. No. 1,355,536; Oct. 12; v. 279; p. 267.

Caskey, William S., Indianapolis, Ind. Pipe-rack. No. 1,356,040; Oct. 19; v. 279; p. 405.

Casler, Harold E., assignor of one-half to J. W. Sawyer, Charlotte, Mich. Teakettle. No. 1,330,169; Feb. 10; v. 271; p. 186.

Casner, Thaddeus S., Plainfield, N. J. Supporting-leg for washtubs. No. 1,337,997; Apr. 27; v. 273; p. 639.

Caspar, Charles H., Philadelphia, Pa. Aeroplane. No. 1,360,621; Nov. 30; v. 280; p. 889.

Caspe, Samuel, Des Moines, Iowa. Stock and poultry fountain and feeder. No. 1,343,349; June 15; v. 275; p. 457.

Casper, Edward J., New York, N. Y. Fountain-pen. No. 1,358,285; Nov. 9; v. 280; p. 269.

Casper, Frank, assignor of one-sixth to P. S. Grady, Cleveland, Ohio. Gripper for printing-presses. No. 1,347,616; July 27; v. 276; p. 629.

Casperson, Carl, Walcott, N. D. Fruit-picker. No. 1,363,456; Dec. 28; v. 281; p. 626.

Cass, Charles W., Salem, and W. L. Baxter, Beverly, Mass. Clip. No. 1,336,129; Apr. 6; v. 273; p. 81.

Cass, Christopher P., St. Louis, Mo. Means for lubricating flexible packings in cylinders. No. 1,360,497; Nov. 30; v. 280; p. 864.

Cass, George B., Ottawa, Ohio. Vaporizer for carbureters. No. 1,352,049; Sept. 7; v. 278; p. 65.

Cass, Joseph, Delaware township, Delaware county, Iowa. Drag for planters. No. 1,345,532; July 6; v. 276; p. 41.

Cassady, Charles L., Marion, Ky. Fly-escape. No. 1,362,846; Dec. 21; v. 281; p. 468.

Cassaday, Ormond F., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Toll trunk-circuit. No. 1,336,615; Apr. 13; v. 273; p. 232.

Cassal, Charles E. (See Cassal, N. C. and C. E., and Gerrans.)

Cassal, Noel C. and C. E., Kensington, London, and B. H. Gerrans, Streatham Hill, London, England. Treatment of liquid hydrocarbons for the transformation thereof. No. 1,330,844; Feb. 17; v. 271; p. 379.

Casuca, Erwin, Gloversville, N. Y. Floating-weight sound-box. No. 1,340,436; May 18; v. 274; p. 469.

Casuca, Erwin, Gloversville, N. Y. Sound-modifying means. No. 1,342,662; June 8; v. 275; p. 257.

Casuca, Erwin, San Francisco, Calif. Sound-box for phonographs or the like. No. 1,342,663; June 8; v. 275; p. 257.

Cassel, Edward, and F. H. Kunkel, Milwaukee, Wis. Tire-casing-curing rim. No. 1,361,827; Dec. 14; v. 281; p. 216.

Cassel, Gunnar E., Djursholm, assignor to Aktiebolaget Gyro, Stockholm, Sweden. Power-transmission gearing. No. 1,332,708; Mar. 2; v. 272; p. 101.

Cassel, Gunnar E., assignor to Aktiebolaget Gyro, Stockholm, Sweden. Parallel bench-vise. No. 1,352,787; Sept. 14; v. 278; p. 245.

Cassel, John L., Winnsboro, Tex. Cotton-treating machine. No. 1,332,425; Mar. 2; v. 272; p. 48.

Cassels, Alfred E., Athens, Ohio. Nut-lock. No. 1,360,365; Nov. 30; v. 280; p. 837.

Cassidy, James P., assignor to J. W. Ladd, New Haven, Conn. Locking device for electric-light bulbs. No. 1,360,266; Nov. 30; v. 280; p. 819.

Cassidy, John J., Cleveland, Ohio. Toggle connection. No. 1,338,171; Apr. 27; v. 273; p. 672.

Cassidy, Wade L., Hamlet, N. C. Automatic railway-gate. No. 1,327,860; Jan. 13; v. 270; p. 244.

Cassingham, John R., and W. W. Ayres, assignors of one-half to H. W. Morrison and J. W. Morrison, Oklahoma, Okla. Auto-fuel-supply lock. No. 1,328,616; Jan. 20; v. 270; p. 424.

Castella, Giorgio, Chieri, assignor of one-half to V. Levi, Turin, Italy. No. 1,356,964; Oct. 26; v. 279; p. 633.

Castelli, Saverio T. S. (See Corthesy, Jules H., assignor.)

Castillo, Amando M., Aringay, Philippine Islands. Hand-seeder. No. 347,249; July 20; v. 276; p. 500.

Castets, André, Gaillères, France. Apparatus for deadening the noise made by the exhaust-gases escaping from internal-combustion engines into the open air. No. 1,356,189; Oct. 19; v. 279; p. 436.

Castino, John B., Chicago, Ill. Pulley construction. No. 1,362,778; Dec. 21; v. 281; p. 455.

Castle, Samuel N., New Rochelle, N. Y. Electric furnace. No. 1,358,617; Nov. 9; v. 280; p. 337.

Castner, George L., Jr., Clarksville, Tenn. Feeding device. No. 1,354,802; Oct. 5; v. 279; p. 72.

Castner, William H., Seattle, Wash., assignor to Road-A-Meter Company. Road-indicating log. No. 1,342,793; June 8; v. 275; p. 285.

Castor, Harry B. (See Hinshaw, C. J., and Castor.)

Caswell, George B., Fort Terry, N. Y. Oven-grill. No. 1,352,352; Sept. 7; v. 278; p. 122.

Catalano, Peter P., Dunkirk, N. Y. Automatic gas-lighter and saftey cut-off device. No. 1,347,532; July 27; v. 276; p. 612.

Cataldi, Benjamino, Turin, Italy. Process and apparatus for the electrolytic decomposition of chlorids. No. 1,336,281; Apr. 6; v. 273; p. 109.

Cater, Theodore T., Aurora, Mo. Electric controller. No. 1,328,126; Jan. 13; v. 270; p. 295.

Cater, William H., Chicago, Ill. Well-screen. No. 1,342,986; June 8; v. 275; p. 322.

Cates, Leland C., assignor to Sunbeam Chemical Company, Chicago, Ill. Alkali-proof dye and producing same. No. 1,349,265; Aug. 10; v. 277; p. 273.

Cathcart, Ernest E., Tecumseh, Nebr. Artificial rubber. No. 1,335,657; Mar. 30; v. 272; p. 875.

Cathcart, Ezra L., St. Paul, Minn. Posting-tray for machine-bookkeeping. No. 1,348,085; July 27; v. 276; p. 723.

Cathcart, Royal W., Toledo, Ohio. Music-rack. No. 1,346,740; July 13; v. 276; p. 340.

Cathedral Phonograph Company. (See Morrison, Ralph W., assignor.)

Cathrill, Jack, assignor of one-half to L. R. Fenn, Los Angeles, Calif. Electric lamp. No. 1,343,809; June 15; v. 275; p. 448.

Catinzearo, John, Chicago, Ill. Nail buncher and assorter. No. 1,331,901; Feb. 24; v. 271; p. 600.

Catlett, Charles, Staunton, Va. Treatment of potassiferous materials. No. 1,354,727; Oct. 5; v. 279; p. 56.

Catlett, Jasper L., Vincennes, Ind. System for numbering motor-cars. No. 1,346,808; July 20; v. 276; p. 413.

Catlin, G. L., and D. Morrison, Port Allegany, assignors to R. W. Hilton, Smethport, Pa. Glass-drawing apparatus. No. 1,351,833; Sept. 7; v. 278; p. 24.

Catlin, Hoyt, assignor to Landers, Frary & Clark, New Britain, Conn. Controlling device. No. 1,340,930; May 25; v. 274; p. 632.

Catlin, Thomas S., Indianapolis, Ind. Container. No. 1,351,325; Aug. 31; v. 277; p. 856.

Cato, George C., Rome, Ga. Scoop. No. 1,333,387; Mar. 9; v. 272; p. 281.

Catron, John J., Bonham, Tex. Recording apparatus. No. 1,329,886; Feb. 3; v. 271; p. 101.

Catron, John J., Bonham, Tex. Anti-agitating device. No. 1,329,887; Feb. 3; v. 271; p. 102.

Catron, John J., Bonham, Tex. Liquid storage and dispensing apparatus. No. 1,352,788; Sept. 14; v. 278; p. 245.

Cattaneo, Giustino, Milan, Italy. Cooling arrangement for exhaust-valves of internal-combustion engines. No. 1,343,111; June 8; v. 275; p. 347.

Catterall, Albert B., Ottumwa, Iowa. Combined valve-cap and dust-cap. No. 1,336,023; Apr. 6; v. 273; p. 60.

Catucci, Pliny, and A. Vasselli, Newark, N. J., assignor, by mesne assignments, to The Harriman National Bank of the City of New York, trustee. Stop mechanism for talking-machines. No. 1,350,781; Aug. 24; v. 277; p. 688.

Catucci, Pliny, and L. D. Nadel, Newark, N. J., assignors, by mesne assignments, to Harriman National Bank of the City of New York, trustee. Fluid-regulator. No. 1,350,782; Aug. 24; v. 277; p. 688.

Caudle, George B., executor. (See Cooper, Daniel M.)

Caudle, Robert E., San Antonio, Tex. Tie and fastener for railway-rails. No. 1,361,443; Dec. 7; v. 281; p. 94.

Caudron, René, Issy-les-Moulineaux, France. Connection of fuel-tanks with their engines. No. 1,333,538; Mar. 9; v. 272; p. 310.

Caudron, René, Issy-les-Moulineaux, France. Arrangement of flexible members. No. 1,350,986; Aug. 24; v. 277; p. 726.

Caul, Louis, Detroit, Mich. Carbonated-water-supply apparatus. No. 1,335,874; Apr. 6; v. 273; p. 32.

Cauley, William F., Wade, Miss. Automobile-spring. No. 1,338,673; May 4; v. 274; p. 5.

Caulfeild, Geraldine M. and H. F. S., Lee, England. Motor-vehicle. No. 1,353,379; Sept. 21; v. 278; p. 420.

Caulfeild, H. F. S. (See Caulfeild, Geraldine M. and H. F. S.)

Caulkins, John A., Hartford, Conn. Landing-stage for aeroplanes. No. 1,340,325; May 18; v. 274; p. 447.

Caunt, Hubert, East Calgary, Alberta, Canada. Internal-combustion engine. No. 1,328,265; Jan. 20; v. 270; p. 357.

Caut, François L., Paris, France. Rotary engine. No. 1,331,485; Feb. 24; v. 271; p. 520.

Cavalier, Roy J., Oswego, N. Y. Hose-supporter. No. 1,359,672; Nov. 23; v. 280; p. 633.

Digitized by Google

Cavanagh, John F., assignor to The Connecticut Telephone & Electric Company, Inc., Meriden, Conn. Electric switch. No. 1,328,562; Jan. 20; v. 270; p. 414.
Cavanagh, John F., assignor to Connecticut Telephone & Electric Company, Inc., Meriden, Conn. Spark-coil. No. 1,339,100; May 4; v. 274; p. 84.
Cavanagh, John F., assignor to Connecticut Telephone & Electric Company, Incorporated, Meriden, Conn. Composition and manufacture. No. 1,346,397; July 13; v. 276; p. 272.
Cavanagh, John F., assignor to Connecticut Telephone & Electric Company, Incorporated, Meriden, Conn. Electric switch. No. 1,354,803; Oct. 5; v. 279; p. 72.
Cavanagh, John F., Providence, R. I., assignor to The Connecticut Telephone & Electric Co. Inc., Meriden, Conn. Molded article and making same. No. 1,357,147; Oct. 26; v. 279; p. 669.
Cavanaugh, Andrew J., Jr., assignor to The Randolph Paper Box Company, Richmond, Va. Composition for rendering cardboard impervious to grease. No. 1,357,844; Nov. 2; v. 280; p. 123.
Cave, Antoine M., St. Etienne, France. Alkaline accumulator. No. 1,350,956; Aug. 24; v. 277; p. 720.
Cave, Frederick C., Des Moines, Iowa. Resilient tire. No. 1,335,820; Apr. 6; v. 273; p. 22.
Cave, Henry, Elizabeth, and J. L. Anderson, Bayonne, N. J., assignors to Davis-Bournonville Company, New York, N. Y. Flame-projector apparatus. No. 1,340,012. May 11; v. 274; p. 331.
Cave, Henry, Hartford, Conn., and J. L. Anderson, Bayonne, N. J., assignors to Davis-Bournonville Company, New York, N. Y. Autogenous-flame-welding machine. No. 1,341,840; June 1; v. 275; p. 45.
Cavers, Thomas W., Copperhill, Tenn., assignor to Garred-Cavers Corporation, New York, N. Y. Smelting lead and like ores and products. No. 1,343,656; June 15; v. 275; p. 517.
Cavey, Arthur T., assignor to The Barber Asphalt Paving Company, Philadelphia, Pa. Bituminous roofing. No. 1,361,517; Dec. 7; v. 281; p. 109.
Cavileer, Ruth L. (See Cavileer, William N., and R. L.)
Cavileer, William N., and R. L., Ray, Ariz. Rotary Toothbrush. No. 1,351,159; Aug. 31; v. 277; p. 822.
Caviness, George K., Seymour, Iowa. Repair-clamp for automobile-running-board truss-rods. No. 1,350,253; Aug. 17; v. 277; p. 538.
Cawley, Frank E., assignor of one-half to John Kopecky, Mason City, Iowa. Automatic safety-shutter. No. 1,359,230; Nov. 16; v. 280; p. 500.
Cawsey, John C., Hawera, New Zealand. Automatic milk-measuring appliance. No. 1,351,284; Aug. 31; v. 277; p. 848.
Caynor, Julius R., Goldfield, Nev. Shock-absorber. No. 1,363,309; Dec. 28; v. 281; p. 598.
Cayo, Julius N., Gary, Ind. Spinning or toy top. No. 1,363,718; Dec. 28; v. 281; p. 677.
Cayton, Max, Washington, D. C. Curtain-pole lifter. No. 1,334,649; Mar. 23; v. 272; p. 625.
Caywood, James A., assignor of one-fourth to E. N. Sebern and one-fourth to E. R. Mulvihill, Nederland, Colo. Beet-gathering machine. No. 1,336,024; Apr. 6; v. 273; p. 61.
Cazel, Cassius E., and J. W. Le Craw, Cincinnati, Ohio. Brush. No. 1,340,931; May 25; v. 274; p. 632.
Cazenave, Gilbert, Detroit, Mich. Pipe-wrench. No. 1,361,749; Dec. 7; v. 281; p. 154.
Cazenove, James O. H., New York, N. Y. Snap-fastener. No. 1,360,884; Nov. 30; v. 280; p. 940.
Cazlarc, Elsa A., Fort Sheridan, Ill. Semaphore toy. No. 1,347,682; July 27; v. 276; p. 642.
Cedarquist, Nils H., Alhambra, Calif. Phonograph-cabinet. No. 1,359,791; Nov. 23; v. 280; p. 657.
Cederstrom, Bror E., Detroit, Mich., assignor to Morgan & Wright. Governor. No. 1,343,389; June 15; v. 275; p. 465.
Celane, Jacob L., New York, N. Y. Folding chair. No. 1,329,261; Jan. 27; v. 270; p. 574.
Celinski, Stephen, Buffalo, N. Y. Device for holding plate-glass in automobile-curtains. No. 1,360,094; Nov. 23; v. 280; p. 717.
Celite Products Company. (See Starr, E. B., and Marsh, assignors.)
Celluloid Company, The. (See Lindsay, William G., assignor.)
Central Commercial Company. (See Rosenbaum, Rudolph R., assignor.)
Central Iron & Steel Company. (See Irons, Robert H., assignor.)
Central Oil & Gas Stove Co. (See White, Fred E., assignor.)
Central Railway Signal Company. (See Bemisderfer, Harvey O., assignor.)
Central Railway Signal Company. (See Pfiel, E. C., and Bemisdefer, assignors.)
Central Scientific Company. (See de Khotinsky, Achilles, assignor.)
Central Scientific Company. (See Krause, Arndt M., assignor.)
Central Specialty Company. (See Lonskey, John H., assignor.)
Central Stamping Company, The. (See Aikman, Walter M., assignor.)
Central Tool Co., The. (See Jaques, Fernando O., Sr., assignor.)
Cera, David P., Junction, Wis. Grater. No. 1,335,481; Mar. 30; v. 272; p. 842.
Cereghino, Louis J., Alameda, Calif. Combined flytrap and garbage-can. No. 1,350,402; Aug. 24; v. 277; p. 613.
Cernicky, Ignatius A., Milwaukee, Wis. Combined billhead and envelop. No. 1,362,779; Dec. 21; v. 281; p. 455.
Cervenka, Frank L., Granger, Tex. Wire-straightening tool. No. 1,329,226; Jan. 27; v. 270; p. 568.
Cesar, Ervin N., Ponca City, Okla. Cranking mechanism for explosive-engines. No. 1,328,127; Jan. 13; v. 270; p. 295.
Cesbron, Fabien C. M., Vitry-sur-Seine, France. Ignition device for internal-combustion engines. No. 1,360,885; Nov. 30; v. 280; p. 940.
Ceska, Marie, Bowdle, S. D. Darner. No. 1,337,884; Apr. 20; v. 273; p. 548.
Cetnarowski, John, Monessen borough, Pa. Wire-drawing mechanism. No. 1,357,543; Nov. 2; v. 280; p. 64.
Cetta, Stephen F., Brooklyn, N. Y. Banjo. No. 1,337,041; Apr. 13; v. 273; p. 314.
Chabaylo, Wasyl, Insinger, Saskatchewan, Canada. Bread-cutter. No. 1,330,302; Feb. 10, v. 271; p. 210.
Chackan, Joseph L., Mammoth, Pa. Automobile-lock. No. 1,340,326; May 18; v. 274; p. 447.
Chadsey, Robert M., Orcutt, Calif. Valve stem guide and seat reamer. No. 1,361,682; Dec. 7; v. 281; p. 141.
Chadwick, Everett D., Winchester, assignor to Gillette Safety Razor Company, Boston, Mass. Safety-razor. No. 1,357,221; Nov. 2; v. 280; p. 4.
Chadwick, Everett D., Winchester, assignor to Gillette Safety Razor Company, Boston, Mass. Safety-razor. No. 1,357,222; Nov. 2; v. 280; p. 5.
Chadwick, Lee S., East Cleveland, Ohio, assignor to The Cleveland Metal Products Company, Cleveland, Ohio. Wick-restricting means. No. 1,330,845; Feb. 17; v. 271; p. 380.
Chadwick, Lee S., assignor to The Cleveland Metal Products Company, Cleveland, Ohio. Cooking utensil. No. 1,334,930; Mar. 23; v. 272; p. 680.
Chadwick, Lee S., East Cleveland, assignor to The Cleveland Metal Products Company, Cleveland, Ohio. Means for connecting hydrocarbon-burners to supply-pipes. No. 1,336,423; Apr. 13; v. 273; p. 196.
Chadwick, Lee S., East Cleveland, and A. R. Whittaker, assignors to The Cleveland Metal Products Company, Cleveland, Ohio. Water-heater. No. 1,358,286; Nov. 9; v. 280; p. 270.
Chadwick Lee S., East Cleveland, and C. C. Rehmer, assignors to The Cleveland Metal Products Company, Cleveland, Ohio. Fastening means for oven-doors and the like. No. 1,358,287; Nov. 9; v. 280; p. 270.
Chadwick, Lees W., Royal Oak, Mich., assignor of one-half to Charles R. Le Clair, Detroit, Mich. Producing bearings, bushings, &c. No. 1,359,331; Nov. 16; v. 280; p. 521.
Chadwick, Ralph H., Fort Wayne, Ind., assignor to General Electric Company. Electrode-holder. No. 1,347,776; July 27; v. 276; p. 662.
Chadwick, William M., Oklahoma, Okla. Massage device. No. 1,343,432; June 15; v. 275; p. 473.
Chaffee, Edward F. (See Axe, R. T., and Chaffee.)
Chaffee, Edward F., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y. Sash-lock for railway-car windows. No. 1,349,046; Aug. 10; v. 277; p. 229.
Chaffee, Edward F., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y. Brake for window-sashes. No. 1,352,875; Sept. 14; v. 278; p. 262.
Chaffee, Herbert H., San Leandro, Calif. Oven. No. 1,349,494; Aug. 10; v. 277; p. 318.
Chaffee, Horace B., Brooklyn, N. Y. Window. No. 1,363,837; Dec. 28; v. 281; p. 700.
Chagnon, Alexandre. (See Lafrance, Joseph, assignor.)
Chailliley, Georges A., Lyon St. Clair Caluire, France. Magneto with water-tight casing. No. 1,336,196; Apr. 6; v. 273; p. 93.
Chain Belt Company. (See Bethke, Leo, assignor.)
Chain Belt Company. (See Welser, George B., Jr., assignor.)
Chalenburg, Edwin, Starbuck, Minn. Store-fixture. No. 1,356,694; Oct. 26; v. 279; p. 581.
Challacombe, Robert H., San Francisco, Calif. Pulverizing apparatus. No. 1,338,421; Apr. 27; v. 273; p. 718.
Challenge Refrigerator Company. (See Hillman, Herbert H., assignor.)
Challenge Spark Plug Company, The. (See Mueller, Curt L. E., assignor.)
Challet, Etienne, Geneva, Switzerland. Sliding calipers. No. 1,351,941; Sept. 7; v. 278; p. 46.
Chalmers & Williams, Inc. (See Gruender, Oscar C., assignor.)
Chaloner, Thomas T., New York, N. Y. Resilient wheel. No. 1,347,442; July 20; v. 276; p. 538.
Chaloner, Thomas T., New York, N. Y. Automatic train-stop. No. 1,361,014; Dec. 7; v. 281; p. 7.
Chaloupka, Joseph, Omaha, Nebr. Attachment for automobiles. No. 1,355,537; Oct. 12; v. 279; p. 267.
Chamales, Christ J., Chicago, Ill. Railroad signaling device. No. 1,354,954; Oct. 5; v. 279; p. 101.

Digitized by Google

Alphabetical list of patentees—Continued.

Chamberlain, Ade and J., Wynot, Nebr. Running-gear for wagons. No. 1,333,468; Mar. 9; v. 272; p. 296.

Chamberlain, Alice R. (See Chamberlain, Parker G., assignor.)

Chamberlain, Chauncey C., assignor to Ypsilanti Reed Furniture Company, Ionia, Mich. Cord-burnishing device. No. 1,328,943; Jan. 27; v. 270; p. 515.

Chamberlain, Jesse. (See Chamberlain, Ade and J.)

Chamberlain, Parker G., assignor of half to A. R. Chamberlain, Spokane, Wash. Linear counter-rule. No. 1,339,644; May 11; v. 274; p. 262.

Chamberlain, Rufus N., Chicago, Ill. Separator. No. 1,328,420; Jan. 20; v. 270; p. 387.

Chamberlain, Rufus N., Chicago, Ill., assignor to Gould Storage Battery Co., Depew, N. Y. Separator for storage batteries. No. 1,343,708; June 15; v. 275; p. 528.

Chamberlin, Albert V., Coeur d'Alene, Idaho. Coin-wrapping machine. No. 1,339,808; May 11; v. 274; p. 293.

Chamberlin, Clarence P., Birmingham, Mich. Windshield and hinge therefor. No. 1,338,487; Apr. 27; v. 273; p. 731.

Chamberlin, Clarence P., Birmingham, Mich. Sliding windshield-joint. No. 1,341,413; May 25; v. 274; p. 726.

Chamberlin, Clarence P., Birmingham, assignor to Joseph N. Smith & Company, Detroit, Mich. Duplex joint for windshields. No. 1,360,721; Nov. 30; v. 280; p. 908.

Chambers, Alden R., Winthrop, Mass. Hot-water bottle. No. 1,346,176; July 13; v. 276; p. 229.

Chambers, Jordan W., *et al.* (See Carroll, Andrew L., assignor.)

Chambers, Percy H., *et al.*, executors. (See Tyrer, Thomas.)

Chambley, Alexander, Philadelphia, Pa. Mold for concrete slabs and the like. No. 1,330,735; Feb. 10; v. 271; p. 291.

Champagne, Benjamin J., Concord, N. H. Violin-bridge. No. 1,362,847; Dec. 21; v. 281; p. 468.

Champaign, Donald K., Ithaca, N. Y. Intake-manifold. No. 1,342,159; June 1; v. 275; p. 108.

Champeau, Lawrence X., Jersey City, N. J., assignor to Kirby, Champeau Co., Inc., New York, N. Y. Skylight illuminating device. No. 1,341,259; May 25; v. 274; p. 696.

Champeau, Lawrence X., Jersey City, N. J., assignor to Kirby, Champeau Co., Inc., New York, N. Y. Illuminating means. No. 1,350,295; Aug. 24; v. 277; p. 592.

Champeix, Pierre T. L., Menton, France. Combination talking and moving-picture machine. No. 1,345,128; June 29; v. 275; p. 934.

Champion, Albert, assignor to Champion Ignition Company, Flint, Mich. Spark-plug. No. 1,358,828; Nov. 16; v. 280; p. 424.

Champion, Albert J., assignor to Champion Ignition Company, Flint, Mich. Spark-plug. No. 1,338,674; May 4; v. 274; p. 5.

Champion Engineering Company, The. (See Valls, Raphael W., assignor.)

Champion Ignition Company. (See Berge, Joseph, assignor.)

Champion Ignition Company. (See Champion, Albert, assignor.)

Champion Ignition Company. (See Schmidt, Albert, assignor.)

Champion Ignition Company. (See Vessey, Ralph B., assignor.)

Champion, John J., and T. B. Martindale, assignors to Champion Manufacturing Co., Philadelphia, Pa. Apparatus for reboring and reaming cylinders of engines. No. 1,343,517; June 15; v. 275; p. 489.

Champion, John W., Pueblo, Colo. Rail-clamping device for metal ties. No. 1,350,855; Aug. 24; v. 277; p. 701.

Champion Kerosene Burner, The. (See Hill, Clarence A., assignor.)

Champion Manufacturing Co. (See Champion, J. J., and Martindale, assignors.)

Champion Shoe Machinery Company. (See Dobyne, Stephen A., assignor.)

Champion Spark Plug Company. (See Rohde, Otto C., assignor.)

Champlin, Francis M., assignor to Sperry Gyroscope Company, Brooklyn, N. Y. Rate-of-ascent indicators for aeroplanes. No. 1,336,358; Apr. 27; v. 273; p. 707.

Champlin, James M., South Coventry, Conn. Adjustable trestle. No. 1,329,290; Jan. 27; v. 270; p. 579.

Champlin, Jay J., Laurel, Nebr. Hay-sweep. No. 1,344,863; June 29; v. 275; p. 884.

Champlin, Warren, Coal Center, Pa. Trolley-pole head. No. 1,334,226; Mar. 16; v. 272; p. 499.

Chanard, Auguste, Rueil, France. Fuse for projectiles. No. 1,346,177; July 13; v. 276; p. 229.

Chance, Albert, Philadelphia, Pa., assignor to The S. S. White Dental Manufacturing Company. Syringe. No. 1,331,805; Feb. 24; v. 271; p. 582.

Chance, Louis A., Grand Forks, N. D. Combined sleeve-holder and cuff-button device. No. 1,334,348; Mar. 23; v. 272; p. 569.

Chancellor, J. W. (See Cox, Ernest H., assignor.)

Chancellor, William H., Strong, Ark. Cotton-harvester. No. 1,342,528; June 8; v. 275; p. 232.

Chandlee, George H., Washington, D. C. Piston-ring. No. 1,360,498; Nov. 30; v. 280; p. 865.

Chandler, Edwin N., Braintree, Mass. Electrically-heated shoe-treeing iron. No. 1,348,263; Aug. 3; v. 277; p. 27.

Chandler, Franklin F., and H. G. Myers, assignors to Adaptable Tractor Co., Indianapolis, Ind. Tractor. No. 1,361,964; Dec. 14; v. 281; p. 244.

Chandler, Harry H., East Providence, R. I., assignor to Universal Products Corporation. Manicuring implement. No. 1,362,601; Dec. 21; v. 281; p. 420.

Chandler, Lee, assignor of one-half to J. D. Allen, Oklahoma, Okla. Apparatus for painting smokestacks. No. 1,345,834; July 6; v. 276; p. 99.

Chandler and Price Company, The. (See Tyler, Ralph S., assignor.)

Chaney, Lee F., Springfield, Ohio. Filling thermometer-tubes and the like. No. 1,345,347; July 6; v. 276; p. 4.

Channell, Charles A., assignor to Channell Chemical Company, Chicago, Ill. Mop-head. (Reissue.) No. 15,010; Dec. 21; v. 281; p. 539.

Channell Chemical Company. (See Channell, Charles A.) (Reissue.)

Chantemerle, Joseph L., Turtle Creek, Pa., assignor to Westinghouse Electric and Manufacturing Co. Controller for small motors. No. 1,351,023; Aug. 31; v. 277; p. 796.

Chantraine, Alphonse B., Marcinelle, Belgium. Recuperator. No. 1,341,970; June 1; v. 275; p. 70.

Chantrell, Felix, Brooklyn, N. Y. Belt-fastener. No. 1,330,289; Feb. 10; v. 271; p. 199.

Chapdelaine, Norbert, Montreal, assignor to C. Heaton, Louiseville, Quebec, Canada. Toy. No. 1,335,425; Mar. 30; v. 272; p. 831.

Chapel, George H., Howell, Mich. Optical lens-mounting. No. 1,362,226; Dec. 14; v. 281; p. 296.

Chapin & Baker Mfg. Company. (See Chapin, E. I., and Baker, assignors.)

Chapin, Byron E., Oklahoma, Okla. Acoustic stand for telephone-receivers. No. 1,341,358; May 25; v. 274; p. 716.

Chapin, E. I., and F. E. Baker, assignors to Chapin & Baker Manufacturing Company, Inc., Syracuse, N. Y. Cutting-tool. No. 1,351,467; Aug. 31; v. 277; p. 884.

Chapin, Harold C., Cleveland, Ohio, assignor to National Carbon Company, Inc. Forming manganese peroxid. No. 1,343,390; June 15; v. 275; p. 465.

Chapin & Hollister Co. (See Lewis, Frederick W., assignor.)

Chapin, William R., Indianapolis, Ind. Steel-cement. No. 1,362,472; Dec. 14; v. 281; p. 343.

Chaplin, Edwin D., New York, N. Y. Soap or cleaning compound. No. 1,362,393; Dec. 14; v. 281; p. 328.

Chapman, Charles H., assignor to General Abrasive Company, Inc., Niagara Falls, N. Y. Controlling the thickness of walls in an electric furnace. No. 1,340,155; May 18; v. 274; p. 416.

Chapman, Claud E. (See Colquitt, F. R., and Chapman.)

Chapman, Earle E., Los Angeles, Calif. Vehicle-shackle. No. 1,343,709; June 15; v. 275; p. 528.

Chapman, Edward C., Providence, R. I. Winding-machine. No. 1,335,426; Mar. 30; v. 272; p. 832.

Chapman, Elsworth E., Tacoma, Wash. Car-mover. No. 1,340,523; May 18; v. 274; p. 484.

Chapman Engineering Company. (See Chapman, W. B., and Mason, assignors.)

Chapman Engineering Company. (See Chapman, William B., assignor.)

Chapman, Frank, Providence, R. I. Portable stove. No. 1,353,314; Sept. 21; v. 278; p. 407.

Chapman, Frank M., assignor to Improved Paper Machinery Company, Nashua, N. H. Apparatus for paper making. No. 1,357,313; Nov. 2; v. 280; p. 22.

Chapman, Fred H., Winchester, Mass. Ball-bearing spindle. No. 1,338,904; May 4; v. 274; p. 47.

Chapman, Genevieve, and L. M. Hill, Charlotte, Vt. Veil-clasp. No. 1,332,287; Mar. 2; v. 272; p. 21.

Chapman, Harold J., Speed, Kans. Shutter for motion-picture machines. No. 1,357,443; Nov. 2; v. 280; p. 46.

Chapman, James, Rock Ferry, Birkenhead, England. Air-cooled sparking plug. No. 1,342,421; June 8; v. 275; p. 211.

Chapman, John A., *et al.*, trustees. (See Sommer, John, assignor.)

Chapman, Lemuel W., assignor of one-half to W. E. Wachtel, Indianapolis, Ind. Fastener for shipping-crates. No. 1,331,696; Feb. 24; v. 271; p. 560.

Chapman, Leonora, Ariel, Pa. Ventilator. No. 1,349,186; Aug. 10; v. 277; p. 257.

Chapman, Mark C. (See Chapman, Matthew T. and M. C.)

Chapman, Matthew T., assignor to The American Well Works, Aurora, Ill. Well-sinking apparatus. No. 1,343,902; June 22; v. 275; p. 631.

Chapman, Matthew T. and M. C., assignors to The American Well Works, Aurora, Ill. Deep-well pump. No. 1,348,980; Aug. 10; v. 277; p. 216.

Chapman, Otto, Mordialloc, Victoria, Australia. Game of skill. No. 1,329,291; Jan. 27; v. 270; p. 579.

Chapman, Penrose E., St. Louis, Mo. Armature and coil winding-machine. No. 1,351,230; Aug. 31; v. 277; p. 837.

Digitized by Google

Chapman, Richard D. (See Crook, A., and Chapman.)
Chapman Valve Manufacturing Company. (See Wittstein, Herman L., assignor.)
Chapman, Walter I., Jersey City, N. J. Roofing-tile and fastening means therefor. No. 1,353,807; Sept. 21; v. 278; p. 505.
Chapman, William B., assignor to Chapman Engineering Company, Mount Vernon, Ohio. Gas-producer. No. 1,341,044; May 25; v. 274; p. 655.
Chapman, William B., Mount Vernon, Ohio, and D. Mason, New York, N. Y., assignors to Chapman Engineering Company, Mount Vernon, Ohio. Making or treating producer-gas. No. 1,361,137; Dec. 7; v. 281; p. 31.
Chapman, William C., Dayton, Ohio. Hair-dressing device. No. 1,362,780; Dec. 21; v. 281; p. 456.
Chappell, Howard F. (See Cowing, Percy F., assignor.)
Chappell, Howard F., New York, N. Y. Utilization of native alunite. No. 1,336,508; Apr. 13; v. 273; p. 211.
Chappell, Thomas J., Casselton, N. D. License-tag holder. No. 1,338,422; Apr. 27; v. 273; p. 719.
Chappelle, Charles C., New York, N. Y. Gas-burner. No. 1,353,217; Sept. 21; v. 278; p. 389.
Chappuis, John A., La Chaux-de-Fonds, Switzerland. Alarm. No. 1,341,298; May 25; v. 274; p. 704.
Chapron, Baptiste A. J., Puteaux, France. Agricultural tractor. No. 1,351,942; Sept. 7; v. 278; p. 46.
Charbonneau, Ernest. (See Morin, J. H., Charbonneau, and Charron.)
Charbonnet, Joseph A., New Orleans, La. Bed-rail and lock. No. 1,336,282; Apr. 6; v. 273; p. 109.
Charewicz, John, Adelaide, Pa. Portable stove. No. 1,360,984; Nov. 30; v. 280; p. 959.
Charland, George J., Sandpoint, Idaho. Spring applier and remover. No. 1,342,529; June 8; v. 275; p. 232.
Charles, Albert B., Blue Mound, Kans. Shaft-mounting. No. 1,362,848; Dec. 21; v. 281; p. 468.
Charles, Arthur E. (See Bennett, Felix L., assignor.)
Charles, Fernand M., Iver Heath, England. Construction of bodies of motor and other vehicles. No. 1,342,664; June 8; v. 275; p. 257.
Charles, Frederick W., Seattle, Wash. Level-indicator and inclinometer. No. 1,343,657; June 15; v. 275; p. 517.
Charles, Henry L., Butte, Mont. Ore reducing and refining furnace. No. 1,348,151; Aug. 3; v. 277; p. 4.
Charles, Henry L., Butte, Mont. Reverberatory furnace. No. 1,351,835; Sept. 7; v. 278; p. 24.
Charles, Louis A., Levallois, France. Drive for the distribution-gear of internal-combustion engines. No. 1,334,988; Mar. 30; v. 272; p. 750.
Charles, Mario C., Jersey City, N. J. Package-tie holder. No. 1,327,591; Jan. 6; v. 270; p. 133.
Charles, Phyllis E., Victorville, Calif. Electrothermal blanket. No. 1,356,965; Oct. 26; v. 279; p. 634.
Charles, Roy B. (See Park, Jay M., assignor.)
Charliss, Charles F. J., Houston, Tex. Culvert. No. 1,334,484; Mar. 23; v. 272; p. 594.
Charls, George H., Canton, Ohio. Rust-resisting alloy of iron. No. 1,355,589; Oct. 12; v. 279; p. 277.
Charls, George H., Canton, Ohio. Enhancing rust-resisting qualities of iron. No. 1,355,590; Oct. 12; v. 279; p. 277.
Charls, George H., Canton, Ohio. Rust-resisting alloy of iron. No. 1,363,564; Dec. 28; v. 281; p. 648.
Charlton, Harry W. (See Meadows, Hauber, and Charlton.)
Charlton, Harry W., New York, N. Y. Potash-reclaiming. No. 1,341,110; May 25; v. 274; p. 668.
Charlton, Harry W., Jones Point, N. Y., assignor to American Potash Corporation. Cementing material obtained from greensand. No. 1,327,145; Jan. 6; v. 270; p. 50.
Charlton, Harry W., New York, N. Y., assignor to American Potash Corporation. Producing combined potassium from greensand. No. 1,329,369; Feb. 3; v. 271; p. 6.
Charlton, Harry W., New York, N. Y., assignor to American Potash Corporation. Alkali-hydrate solution. No. 1,334,989; Mar. 30; v. 272; p. 750.
Charlton, Harry W., Jones Point, N. Y., assignor to American Potash Corporation. Producing alkali-metal hydrates. No. 1,346,092; July 6; v. 276; p. 133.
Charmes, Xavier, Paris, France. Motor-driven agricultural implement. No. 1,361,015; Dec. 7; v. 281; p. 7.
Charrier, Marc F., Akron, Ohio. Translating-chart. No. 1,343,112; June 8; v. 275; p. 347.
Charron, Frank. (See Morin, J. H., Charbonneau, and Charron.)
Charter, Arlington, Covington, Tenn. Automatically-operated fire-extinguisher. No. 1,348,480; Aug. 3; v. 277; p. 68.
Charter, James A., Chicago, Ill. Wheel. No. 1,327,310; Jan. 6; v. 270; p. 80.
Charter, James A., Chicago, Ill. Metal wheel. No. 1,359,964; Nov. 23; v. 280; p. 692.
Charter, James A., Chicago, Ill. Variable-compression gas-engine. No. 1,360,366; Nov. 30; v. 280; p. 838.
Charter, James A., Chicago, Ill. Wheel. No. 1,361,227; Dec. 7; v. 281; p. 49.
Charter, James A., Chicago, Ill. Wheel-hub construction. No. 1,363,838; Dec. 28; v. 281; p. 700.
Chase Adding Machine Corporation. (See Chase, G. C., and Mazzocco, assignor.)
Chase Adding Machine Corporation. (See Chase, George C., assignor.)
Chase, Arthur H., and H. L. Boesch, Washington, D. C., assignors to Government of the United States. Flask for torpedoes. No. 1,354,091; Sept. 28; v. 278; p. 607.
Chase, Cassius S. (See McLaughlin, William H., assignor.)
Chase, Charles I. (See Chase, Ray H., assignor.)
Chase Companies, The. (See Recker, Adolph C., assignor.)
Chase Companies, The. (See Henger, Edwin W., assignor.)
Chase Companies, The. (See Shoner, John, assignor.)
Chase, Elroy A., assignor to Phillips & Slack, Inc., Northfield, Vt. Stone-profiling machine. No. 1,336,942; Apr. 13; v. 273; p. 295.
Chase Foundry and Manufacturing Company, The. (See Chase, S. M., and Fleming, assignors.)
Chase, Frank R., Cincinnati, Ohio. Fisherman's bob. No. 1,362,781; Dec. 21; v. 281; p. 456.
Chase, George C., Providence, R. I. Calculating-machine. No. 1,329,262; Jan. 27; v. 270; p. 575.
Chase, George C., East Orange, assignor to Chase Adding Machine Corporation, Orange, N. J. Register. No. 1,330,682; Feb. 10; v. 271; p. 281.
Chase, George C., East Orange, assignor to Chase Adding Machine Corporation, Orange, N. J. Adding-machine. No. 1,340,374; May 18; v. 274; p. 457.
Chase, George C., South Orange, N. J., assignor to Chase Adding Machine Corporation, Orange, N. J. Adding-machine. No. 1,354,884; Oct. 5; v. 279; p. 87.
Chase, George C., and D. V. Mazzocco, assignors to Chase Adding Machine Corporation, Orange, N. J. Zero-setting means for registers. No. 1,358,058; Nov. 9; v. 280; p. 226.
Chase, George L., Seattle, Wash. Engine. No. 1,328,033; Jan. 13; v. 270; p. 277.
Chase, Harry M., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Rock-drill. No. 1,352,428; Sept. 14; v. 278; p. 172.
Chase, James G. (See Bissell, H. C., and Chase.)
Chase, L. C., & Company. (See Norcross, Walter E., assignor.)
Chase, L. C., Company. (See Vestine, Andrew O., assignor.)
Chase, Philip H., East Orange, N. J. Electric switch. No. 1,352,400; Sept. 7; v. 278; p. 131.
Chase, Philip H., East Orange, N. J. Electric switch. No. 1,352,401; Sept. 7; v. 278; p. 131.
Chase, Philip H., East Orange, N. J. Electric switch. No. 1,352,402; Sept. 7; v. 278; p. 131.
Chase, Ray H., assignor of one-third to C. I. Chase, Alexandria, S. D. Internal-combustion engine. No. 1,342,422; June 8; v. 275; p. 211.
Chase, Ray H., Alexandria, S. D. Magazine for automatic pistols. No. 1,351,370; Aug. 31; v. 277; p. 866.
Chase, Rutherford B., Chicago, Ill. Cleaning and polishing apparatus. No. 1,350,403; Aug. 24; v. 277; p. 613.
Chase, Sherwood M., and F. A. Fleming, assignors to The Chase Foundry and Manufacturing Company, Columbus, Ohio. Road-scraper. No. 1,330,783; Feb. 17; v. 271; p. 368.
Chase, Thereon P., Detroit, Mich. Piston. No. 1,356,695; Oct. 26; v. 279; p. 581.
Chase, Wallace S., Lakewood, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc. Obtaining calcium-fluorid precipitate. No. 1,329,072; Jan. 27; v. 270; p. 539.
Chase, William J., Bellingham, Wash. End extension to automobile-windshields. No. 1,342,794; June 8; v. 275; p. 285.
Chasse, Raphael, Middletown, N. Y. Rat-trap. No. 1,330,683; Feb. 10; v. 271; p. 281.
Chatfield, Clarence E., assignor to The Simmen Automatic Railway Signal Company, Buffalo, N. Y. Railway signal system. No. 1,361,016; Dec. 7; v. 281; p. 7.
Chatham Die Casting Co. (See Hakanson, Alfred, assignor.)
Chatillon, John & Sons. (See Stevens, Frederick M., assignor.)
Chattle, Michael, Wauna, Oreg. Engine-starter. No. 1,352,353; Sept. 7; v. 278; p. 123.
Chattstrom, Anders, Davenport, Iowa. Posthole-digging machine. No. 1,356,125; Oct. 19; v. 279; p. 423.
Chavannes, Adrian J., Des Moines, Iowa. Printer's drying-cabinet. No. 1,346,781; July 13; v. 276; p. 349.
Cheape, John A., Charlottesville, Va. Rack for automobile-tires. No. 1,355,033; Oct. 5; v. 279; p. 116.
Checkley, George, Winthrop, Mass. Gas-heater. No. 1,335,091; Mar. 30; v. 272; p. 770.
Cheek, Alex L., Roxton, Tex. Valve. No. 1,362,526; Dec. 14; v. 281; p. 354.
Cheek, George C., Sacramento, Calif. Garbage collector and receiver. No. 1,358,618; Nov. 9; v. 280; p. 337.
Cheek, Henry M., Ferndale, Ark. Air control. No. 1,341,260; May 25; v. 274; p. 696.
Cheek, Henry M., Ferndale, Ark. Wrench. No. 1,355,733; Oct. 12; v. 279; p. 305.
Cheeseman, Lewis, Hatfield, Mass. Germicide and insecticide. No. 1,343,034; June 8; v. 275; p. 332.
Chelcut, Chauncey D., Pittsburgh, Pa. Nut-lock. No. 1,334,227; Mar. 16; v. 272; p. 499.
Chemical Construction Company. (See Hechenbleikner, Ingenuin, assignor.)

Digitized by Google

Chemical Foundation, Inc., The. (See Baum, Erich, assignor.)
Chemical Foundation, The. (See Bergius, Friedrich, assignor.)
Chemical Foundation, The. (See Blass, Ferdinand M. E., assignor.)
Chemical Foundation, The. (See Bosch, Carl, assignor.)
Chemical Foundation, The. (See Bosch, Mittasch, and Beck, assignors.)
Chemical Foundation, The. (See Buchner, Max, assignor.)
Chemical Foundation, The. (See Dahlmeyer, Karl O., assignor.)
Chemical Foundation, The. (See Dietsche, Otto, assignor.)
Chemical Foundation, The. (See Dietz, Carl, assignor.)
Chemical Foundation, The. (See Dolensky, Eugen, assignor.)
Chemical Foundation, The. (See Eilender, Walter L. E., assignor.)
Chemical Foundation, The. (See Gerber, Otto, assignor.)
Chemical Foundation, The. (See Goldschmidt, H., and Müller, assignors.)
Chemical Foundation, The. (See Gontard, G. H., and Keller, assignors.)
Chemical Foundation, Inc., The. (See Graaff, Clemens, assignor.)
Chemical Foundation, The. (See Hein, Paul, assignor.)
Chemical Foundation, The. (See Horn, Walter M. W., assignor.)
Chemical Foundation, The. (See Klever, H., Lautenschläger, and Göhring, assignors.)
Chemical Foundation, The. (See Knöpfimacher, Arthur, assignor.)
Chemical Foundation, The. (See Koch, Franz, assignor.)
Chemical Foundation, The. (See Lewicki, Wilhelm, assignor.)
Chemical Foundation, The. (See Lilienfeld, Leon, assignor.)
Chemical Foundation, The. (See Melamid, Meilich, assignor.)
Chemical Foundation, The. (See Messerschmitt, Anton, assignor.)
Chemical Foundation, Inc., The. (See Meyer, Ferdinand M., assignor.)
Chemical Foundation, The. (See Meyerhofer, Albert F., assignor.)
Chemical Foundation, The. (See Milke, Gustav, assignor.)
Chemical Foundation, The. (See Moest, M., and Schirm, assignors.)
Chemical Foundation, The. (See Möller, Erwin, assignor.)
Chemical Foundation, The. (See Nagel, Oskar, assignor.)
Chemical Foundation, The. (See von Ostrejko, Raphael, assignor.)
Chemical Foundation, The. (See Ostwald, Walter, assignor.)
Chemical Foundation, The. (See Podszus, Emil, assignor.)
Chemical Foundation, The. (See Pröstler, Norbert, assignor.)
Chemical Foundation, The. (See Rausch, Carl A., assignor.)
Chemical Foundation, The. (See Richter, Georg, assignor.)
Chemical Foundation, The. (See Rippl, Franz, assignor.)
Chemical Foundation, The. (See Rupprecht, Georg, assignor.)
Chemical Foundation, The. (See Schaffer, Friedrich, assignor.)
Chemical Foundation, The. (See Schmidt, Karl, assignor.)
Chemical Foundation, The. (See Schmidt, Otto, assignor.)
Chemical Foundation, The. (See Schwerin, Botho, assignor.)
Chemical Foundation, The. (See Singer and Holl, assignors.)
Chemical Foundation, The. (See Steinschneider, Leo., assignor.)
Chemical Foundation, The. (See Strauss, Benno, assignor.)
Chemical, Foundation, The. (See Sztankay, Aba v., assignor.)
Chemical Foundation, The. (See Tambach, Rudolf, assignor.)
Chemical Foundation, The. (See Theil, Otto, assignor.)
Chemical Foundation, The. (See Tschunke, Reinhold, assignor.)
Chemical Foundation, The. (See Ullrich, Georg, assignor.)
Chemical Foundation, The. (See Viertel, Eduard, assignor.)
Chemical Foundation, The. (See Vögler, Albert, assignor.)
Chemical Foundation, The. (See Volz, Otto, assignor.)
Chemical Foundation, The. (See Wandel, Kurt, assignor.)
Chemical Foundation Company, The. (See Wirth, Ernst, assignor.)
Chemical Machinery Corporation. (See Field, Crosby, assignor.)
Chemo-Mechanical Water Improvement Company. (See Rice, Cyrus W., assignor.)
Chen, Kungche, Shanghai, China. Camera. No. 1,339,319; May 4; v. 274; p. 123.
Chenault, George N., Forney, Tex. Chopping attachment. No. 1,336,727; Apr. 13; v. 273; p. 254.
Chenery, Charles R., Buffalo, N. Y. Milk-bottle. No. 1,342,013; June 1; v. 275; p. 78.
Cheney, Forest, assignor to Cheney Talking Machine Company, Chicago, Ill. Sound-box. No. 1,339,809; May 11; v. 274; p. 293.
Cheney, George M., and L. C. Harwood, assignors to Litchfield Shuttle Company, Southbridge, Mass. Thread-eye for shuttles. No. 1,337,389; Apr. 20; v. 273; p. 454.
Cheney, Herbert W., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Retarded switch. No. 1,344,199; June 22; v. 275; p. 688.
Cheney, S., & Son. (See Littler, James H., assignor.)
Cheney Talking Machine Company. (See Cheney, Forest, assignor.)
Chenoweth, Alexander C., New York, N. Y. Apparatus for making and laying protective coverings. No. 1,359,575; Nov. 23; v. 280; p. 614.
Chenoweth, William B., Fort Worth, assignor, by mesne assignments, to Benjaman Tractor Company, Dallas, Tex. Tractor. No. 1,331,184; Feb. 17; v. 271; p. 444.
Chenoweth, William B., Fort Worth, assignor, by mesne assignments, to Benjaman Tractor Company, Dallas, Tex. Tractor-turning mechanism. No. 1,331,185; Feb. 17; v. 271; p. 444.
Cherington, George T., Waukegan, Ill. Fastening device for phonograph-springs. No. 1,347,079; July 20; v. 276; p. 467.
Cherington, George T., Waukegan, Ill. Spring-motor governor. No. 1,362,782; Dec. 21; v. 281; p. 456.
Chermak, Andrew, Prince George, Va. Oil-machine. No. 1,344,261; June 22; v. 275; p. 700.
Chernack Manufacturing Company. (See Kennedy, Joseph A., assignor.)
Cherpech, Joseph, assignor of one-half to G. Gavros, Lethbridge, Alberta, Canada. Automobile-wheel. No. 1,332,486; Mar. 2; v. 272; p. 59.
Cherry, Edward P., Dayton, assignor of one-half to N. N. Cherry, Springfield, Ohio. Illuminated sign. No. 1,353,516; Sept. 21; v. 278; p. 447.
Cherry, Louis B., Kansas City, Mo. Electrical apparatus for the electrochemical treatment of liquid hydrocarbon and other compounds. No. 1,327,023; Jan. 6; v. 270; p. 27.
Cherry, Louis B., Kansas City, Mo. Electrical apparatus for the electrochemical treatment of vapors. No. 1,345,431; July 6; v. 276; p. 20.
Cherry, Norman N. (See Cherry, Edward P., assignor.)
Cherry, Verner A., Granite City, Ill. Child's bicycle-seat. No. 1,350,987; Aug. 24; v. 277; p. 726.
Cherry, Warren L., Wolfe City, Tex. Belt-stretcher. No. 1,344,485; June 22; v. 275; p. 745.
Chesebro, Paris, Fairport, N. Y. Grain-door. No. 1,336,068; Apr. 6; v. 273; p. 69.
Chesebrough, Robert A. (See Ofeldt, Ernest T., assignor.)
Cheshire, Milton F., Chicago, Ill., assignor to T. A. Cheshire, Des Moines, Iowa. Addressing-machine. No. 1,335,042; Mar. 30; v. 272; p. 761.
Cheshire, Robert G., Birmingham, England. Hinge for trestles and the like. No. 1,327,808; Jan. 13; v. 270; p. 235.
Cheshire, Thomas A. (See Cheshire, Milton F., assignor.)
Chesney, Edward F. (See Waelti, O. N., and Chesney.)
Chesnutt, John L., assignor to The Service Caster & Truck Company, Kansas City, Mo. Ball-bearing swivel-caster. No. 1,344,864; June 29; v. 275; p. 884.
Chesnutt, John L., assignor to The Service Caster & Truck Company, Kansas City, Mo. Operating mechanism for elevating-trucks. No. 1,353,564; Sept. 21; v. 278; p. 457.
Chesnutt, Ralph C., Pottstown, Pa. Manifold for internal-combustion engines. No. 1,327,311; Jan. 6; v. 270; p. 80.
Chesnutt, Seibert W., Kansas City, Mo. Swivel-caster. No. 1,341,630; June 1; v. 275; p. 3.
Chess, Mattie G., Oakland, Calif. Food-tray. No. 1,351,285; Aug. 31; v. 277; p. 848.
Chester, Frank R., New York, N. Y. Telephone-directory device. No. 1,332,604; Mar. 2; v. 272; p. 82.
Chester, James C., Modesto, Calif. Stock-tie lead. No. 1,344,791; June 29; v. 275; p. 870.
Chester, William E., Norwood, Ohio. Dental drilling-tool. No. 1,333,388; Mar. 9; v. 272; p. 281.
Cheston, Arthur S., Birmingham, England. Combined dovetail and buffer or cushioning device for the doors of motor-cars and other vehicles. No. 1,337,042; Apr. 13; v. 273; p. 314.
Chevalier, John F. (See Griswold, Albert A., assignor.)
Chew, Richard S., San Francisco, Calif. Ship construction. No. 1,330,517; Feb. 10; v. 271; p. 250.
Chew, Ruth E., Brooklyn, N. Y. Waterproof hat-protector. No. 1,337,506; Apr. 20; v. 273; p. 476.
Chiarelli, Anthony, New York, N. Y. Mechanical roller-skate. No. 1,338,813; May 4; v. 274; p. 30.
Chiarelli, Anthony, New York, N. Y. Aeroplane-stabilizer. No. 1,340,214; May 18; v. 274; p. 426.
Chiarelli, Anthony, New York, N. Y. Motion-picture-projecting mechanism. No. 1,342,040; June 1; v. 275; p. 84.
Chicago Bearings Company. (See Winn, Charles A., assignor.)
Chicago Cabinet Lock Company. (See Baird, Edward P., assignor.)

Digitized by Google

Chicago Carton Company. (See Richardson, Ralph R., assignor.)
Chicago-Cleveland Car Roofing Company. (See Hamilton, Karl M., assignor.)
Chicago-Cleveland Car Roofing Company. (See Russell, Thomas N., assignor.)
Chicago, Flexible Shaft Company, The. (See Kocourek, Henry, assignor.)
Chicago Hardware Foundry Company. (See Cook, Fred W., assignor.)
Chicago Hardware Foundry Company. (See Hathorne, Sherman A., assignor.)
Chicago Hardware Foundry Company. (See Knight, Stanley H., assignor.)
Chicago Lino-Tabler Company. (See Stevenson, Ashton G., assignor.)
Chicago Machine & Motor Co. (See Pearson, Carl F., assignor.)
Chicago Malleable Castings Company. (See Osborn, Warren M., assignor.)
Chicago Manufacturing and Distributing Co. (See Buckius, Albert O., Jr., assignor.)
Chicago Manufacturing and Distributing Co. (See Sultemeyer, Charles F., assignor.)
Chicago Pneumatic Tool Company. (See Kinsman, Henry J., assignor.)
Chicago Pottery Company. (See Clifford, F. J., and Perry, assignors.)
Chicago Railway Equipment Company. (See Mohun, John L., assignor.)
Chicago Railway Equipment Company. (See Williams, Charles H., assignor.)
Chicago Railway Signal and Supply Company. (See McCarthy, Daniel J., assignor.)
Chicago Railway Signal and Supply Company. (See Vogel, Eugene W., assignor.)
Chicago Standard Metallic Packing Company. (See Badeker, John, assignor.)
Chicago Steel & Wire Company. (See Green, J. Birchard, assignor.)
Chicago Title & Trust Company. (See Scannell, John P., assignor.)
Chichester, B. B., trustees, *et al.* (See Jones, Walter J., assignor.)
Chicken, C. B., and J. H. Thain, assignors to Sir W. G. Armstrong, Whitworth and Company Limited, Newcastle-upon-Tyne, England. Electrical signaling apparatus. No. 1,353,025; Sept. 14; v. 278; p. 291.
Chicker, Stanley L. (See Ritchie, Samuel, assignor.)
Chidester, John H., Summit, N. J. Illuminated displaying device. No. 1,344,379; June 22; v. 275; p. 724.
Chilcote-Sargent Company, The. (See Warner, F. D., and Hays, assignors.)
Child, Dwight P., Quincy, Ill. Meter service-box and housing for curb-cocks. No. 1,346,879; July 20; v. 276; p. 427.
Child, Guy B., Chicago, Ill., assignor to American Stove Company, St. Louis, Mo. Adjustable broiling-grid. No. 1,337,043; Apr. 13; v. 273; p. 314.
Child, Stanton M., New York, N. Y. Sliding caster. No. 1,332,605; Mar. 2; v. 272; p. 83.
Childers, Marion G., Willows, Calif. Hydrocarbon-burner. No. 1,338,853; May 4; v. 274; p. 37.
Childress, Patrick H., assignor of one-half to T. W. Queenbery, Waynesboro, Va. Ash receiver and sifter. No. 1,346,809; July 20; v. 276; p. 413.
Chile Exploration Company. (See Fink, Colin G., assignor.)
Chilimidos, Pericles, South Bethlehem, Pa. Camera-timing attachment. No. 1,344,440; June 22; v. 275; p. 736.
Chillemi, Paolo, Schenectady, N. Y. Washing-machine. No. 1,363,493; Dec. 28; v. 281; p. 633.
Chilman, Henry A. (See Townsend, Layton W., assignor.)
Chilton, Henry J., Chicago, Ill. Disappearing handle for suitcases, valises, and the like. No. 1,343,195; June 15; v. 275; p. 428.
Chilton, Henry J., Chicago, Ill., assignor, by mesne assignments, to H. D. Lafferty, Oakland, Calif. Engine-manifold. No. 1,330,580; Feb. 10; v. 271; p. 262.
Chimino, Mike, Batavia, N. Y. Motorcycle-top. No. 1,342,987; June 8; v. 275; p. 322.
Chiodo, Joseph. (See Tweeddale, Daniel E., assignor.)
Chipman Knitting Mills. (See Schermerhorn, George E., assignor.)
Chipman, William E., Easton, Pa. Auxiliary guiding device for sewing-machines. No. 1,358,705; Nov. 16; v. 280; p. 399.
Chipperfield, Walter, Hornchurch, assignor to Roneo Limited, London, England. Metal filing-cabinet. No. 1,353,452; Sept. 21; v. 278; p. 434.
Chipperfield, Walter, Romford, assignor to Roneo Limited, London, England. Means for simultaneously locking sliding drawers, shelves, or other sliding structures. No. 1,353,453; Sept. 21; v. 278; p. 434.
Chipperfield, Walter, Romford, assignor to Roneo Limited, London, England. Metal case for containing drawers, shelves, or the like. No. 1,355,213; Oct. 12; v. 279; p. 204.
Chipps, Howard L., Mason City, Nebr. Neck-yoke. No. 1,356,966; Oct. 26; v. 279; p. 634.
Chisholm, Douglas W., Garnkirk, Scotland. Closing die or bell for welded tubes. No. 1,353,721; Sept. 21; v. 278; p. 489.
Chisholm-Moore Mfg. Company, The. (See Remsberg, Arthur S., assignor.)
Chislet, Harry, Schenectady, N. Y., assignor to General Electric Company. Japan. No. 1,357,688; Nov. 2; v. 280; p. 92.
Chism, Louis W., Springfield, Mass., assignor to The Steel Products Company, Hartford, Conn. Transportation apparatus. No. 1,336,551; Apr. 13; v. 273; p. 220.
Chism, Louis W., Southington, assignor to The Steel Products Company, Hartford, Conn. Carrier apparatus. No. 1,347,496; July 27; v. 276; p. 605.
Chism, Louis W., Springfield, Mass., assignor to The Steel Products Company, Hartford, Conn. Carrier system No. 1,347,497; July 27; v. 276; p. 605.
Chism, Louis W., Springfield, Mass., assignor to The Steel Products Company, Hartford, Conn. Store-service apparatus. No. 1,347,498; July 27; v. 276; p. 605.
Chism, William J., Cleveland, Ohio. Traction device. No. 1,343,658; June 15; v. 275; p. 517.
Chittenden, Foree, Oakland, and H. S. Folker, assignors to National Safety Appliance Company, San Francisco, Calif. Railway-train-control mechanism. No. 1,334,520; Mar. 23; v. 272; p. 601.
Chlorine Products Company. (See Jewell, Omar H., assignor.)
Chlorine Products Company. (See Jewell, William M., assignor.)
Chmielarski, Walter, Gary, Ind. Bomb-dropper. No. 1,353,518; Sept. 21; v. 278; p. 447.
Chmielinski, Joseph, Passaic, N. J. Fountain-brush. No. 1,351,371; Aug. 31; v. 277; p. 866.
Choiniere, Zothique, Cohoes, N. Y. Poultry-feeder. No. 1,344,987; June 29; v. 275; p. 906.
Chojnik, Joseph, Whiting, Ind. Railway-tie. No. 1,358,288; Nov. 9; v. 280; p. 270.
Chojnacki, Stephen. (See Korzeniewski and Chojnacki.)
Chomier, Louis, St. Etienne, France. Miner's lamp. No. 1,331,320; Feb. 17; v. 271; p. 469.
Chomos, John, Toledo, Ohio. Telescopical bed and collapsible-chair combination. No. 1,348,481; Aug. 3; v. 277; p. 68.
Chomos, John, Toledo, Ohio. Window-locking device. No. 1,352,114; Sept. 7; v. 278; p. 77.
Chomyn, Harry, Fox Valley, Saskatchewan, Canada. Railway joint. No. 1,350,783; Aug. 24; v. 277; p. 688.
Chopin, Albéric L., Paris, France. Percussion-drill. No. 1,330,170; Feb. 10; v. 271; p. 186.
Chopin, Albéric L., Paris, France. Percussion-drill. No. 1,330,171; Feb. 10; v. 271; p. 186.
Chorlton, Alan E. L., Swallowbeck, Lincoln, England. Internal-combustion engine. No. 1,332,808; Mar. 2; v. 272; p. 120.
Chorlton, Alan E. L., Swallowbeck, assignor to William Beardmore & Company, Limited, London, England. Internal-combustion engine. No. 1,362,080; Dec. 14; v. 281; p. 267.
Chounard, Leon, Vawn, Saskatchewan, Canada. Gate. No. 1,329,263; Jan. 27; v. 270; p. 575.
Chowen, Fredrick R., Fort William, Ontario, Canada. Street and station indicator. No. 1,331,980; Feb. 24; v. 271; p. 614.
Chrestenson, Louis F., assignor to Port Huron Engine & Thresher Company, Port Huron, Mich. Axle construction. No. 1,340,932; May 25; v. 274; p. 633.
Chriskos, Louis, Muskegon, Mich. Cover opening and closing mechanism. No. 1,331,143; Feb. 17; v. 271; p. 437.
Chrisman, Horace, Edgewood, assignor to Pittsburgh Meter Company, East Pittsburgh, Pa. Tangent-post for gas-meters. No. 1,350,067; Aug. 17; v. 277; p. 502.
Christ, Benjamin F., Idagrove, Iowa. Watch-holder. No. 1,327,701; Jan. 13; v. 270; p. 215.
Christen, Victor H., Toledo, Ohio. Glass-cleaner. No. 1,327,146; Jan. 6; v. 270; p. 50.
Christen, Victor H., Toledo, Ohio. Windshield-wiper. No. 1,343,310; June 15; v. 275; p. 449.
Christensen, August S., Reserve, Mont. Current-motor. No. 1,355,386; Oct. 12; v. 279; p. 238.
Christensen, Christen, assignor to General Electric Company, Schenectady, N. Y. Electric switch. No. 1,349,873; Aug. 17; v. 277; p. 465.
Christensen, Hans, Springdale, Wash. Churn. No. 1,344,937; June 29; v. 275; p. 898.
Christensen, Harold G., New York, N. Y. Apparatus and process for producing motion-pictures. No. 1,328,266; Jan. 20; v. 270; p. 357.
Christensen, Herman. (See Vincent, Ernest H., assignor.)
Christensen, Ingermarie, Seattle, Wash. Bedspread. No. 1,343,881; June 15; v. 275; p. 563.
Christensen, James C. (See Johnston, F. H., and Christensen.)
Christensen, John E., Chicago, Ill. Sound-amplifier for talking-machines. No. 1,358,706; Nov. 16; v. 280; p. 400.
Christensen Machine Company. (See Christensen, Martin, assignor.)
Christensen, Martin, assignor to Christensen Machine Company, Racine, Wis. Signature-handling device. No. 1,335,221; Mar. 30; v. 272; p. 793.
Christensen, Martin, assignor to Christensen Machine Company, Racine, Wis. Book-stitching machine. No. 1,344,441; June 22; v. 275; p. 786.

Digitized by Google

Alphabetical list of patentees—Continued.

Christensen, Martin, assignor to Christensen Machine Company, Racine, Wis. Conveyer for book-stitching machines. No. 1,348,849; Aug. 10; v. 277; p. 191.
Christensen, Martin, assignor to Christensen Machine Co., Racine, Wis. Signature-stitching machine. No. 1,348,850; Aug. 10; v. 277; p. 191.
Christensen, Martin, assignor to Christensen Machine Co., Racine, Wis. Signature-fold-centering device. No. 1,349,662; Aug. 17; v. 277; p. 424.
Christensen, Martin, assignor to Christensen Machine Company, Racine, Wis. Feeding mechanism for book-stitching machines. No. 1,351,231; Aug. 31; v. 277; p. 837.
Christensen, Martin, assignor to Christensen Machine Company, Racine, Wis. Control for stitching-machines. No. 1,353,989; Sept. 28; v. 278; p. 585.
Christensen, Martin, assignor to Christensen Machine Co., Racine, Wis. Pusher member for book-stitching machines. No. 1,360,886; Nov. 30; v. 280; p. 941.
Christensen, Martin, assignor to Christensen Machine Company, Racine, Wis. Book-delivery mechanism. No. 1,362,849; Dec. 21; v. 281; p. 469.
Christensen, Niels, Lima, Ohio. Ripener for mother-starter. No. 1,336,728; Apr. 13; v. 273; p. 254.
Christensen, Niels A., Milwaukee, Wis. Starting mechanism for internal-combustion engines. No. 1,336,616; Apr. 13; v. 273; p. 232.
Christensen, Neils C., Salt Lake City, Utah. Treating copper ores. No. 1,357,952; Nov. 9; v. 280; p. 205.
Christensen, Niels C., Salt Lake City, Utah. Treating copper ores with an SO_2 solution for the recovery of the copper therefrom. No. 1,358,619; Nov. 9; v. 280; p. 337.
Christensen, Niels C., Salt Lake City, Utah, assignor of one-half to J. E. Barlow, Habana, Cuba, and one-half to Big Indian Copper Company, State of Utah. Obtaining a concentrated SO_2 solution. No. 1,341,734; June 1; v. 275; p. 24.
Christensen, Nels M., Fremont, Nebr. Device to seal freight-car doors. No. 1,336,888; Apr. 13; v. 273; p. 384.
Christensen, Norman V., *et al.* (See Brodin, John A., assignor.)
Christensen, Rasmus P., assignor of one-half to C. O. Johnson, Buffalo, N. Y. Record-repeating device for sound-reproducing instruments. No. 1,340,524; May 18; v. 274; p. 485.
Christensen, Rasmus P., assignor of one-half to C. O. Johnson, Buffalo, N. Y. Record-repeating device for sound-reproducing machines. No. 1,340,525; May 18; v. 274; p. 485.
Christenson, George, Jamaica, N. Y., assignor to H. W. Johns-Manville Company. Packing. No. 1,330,979; Feb. 17; v. 271; p. 407.
Christenson, George, Jamaica, N. Y., assignor to H. W. Johns-Manville Company. Composition of matter for use as a substitute for leather and similar purposes. No. 1,332,320; Mar. 2; v. 272; p. 27.
Christenson, George, assignor to H. W. Johns-Manville Company, North Plainfield, N. J. Piston-packing. No. 1,363,565; Dec. 28; v. 281; p. 648.
Christenson, John O., Wilson, Fla. Combined shaving-brush and shaving-stick holder. No. 1,326,914; Jan. 6; v. 270; p. 6.
Christian, Herbert A., Vallejo, Calif. Rule-holder. No. 1,333,539; Mar. 9; v. 272; p. 310.
Christiani, Thomas, Sarles, N. D. Automatically-adjustable bearing. No. 1,347,443; July 20; v. 276; p. 538.
Christians, George W., Chattanooga, Tenn. Sealing crevices in rock formations. No. 1,327,268; Jan. 6; v. 270; p. 73.
Christians, George W., Chattanooga, Tenn. Apparatus for use in sealing crevices in rock formations. No. 1,327,269; Jan. 6; v. 270; p. 73.
Christians, George W., Brooklyn, assignor to T. E. Murray, New York, N. Y. Apparatus for testing gas-leakage. No. 1,329,160; Jan. 27; v. 270; p. 555.
Christiansen, Charles J. (See Johannessen, J. E., Sether, Hoff, and Christiansen.)
Christiansen, Hans R., Brooklyn, N. Y. Pneumatic motor. No. 1,347,444; July 20; v. 276; p. 538.
Christiansen, Peter, Cedar Falls township, Blackhawk county, Iowa. Liquid-fertilizer distributer. No. 1,347,892; July 27; v. 276; p. 685.
Christie, Andrew S., Vancouver, British Columbia, Canada. Boot. No. 1,360,177; Nov. 23; v. 280; p. 734.
Christie, Edwin C., St. Catharines, Ontario, Canada, assignor to The Columbus McKinnon Chain Company, Columbus, Ohio. Chain-making machine. No. 1,348,541; Aug. 3; v. 277; p. 80.
Christie, Lindsay R., Pittsburgh, Pa. Drier. No. 1,332,380; Mar. 2; v. 272; p. 40.
Christie, Thomas C., Lebanon, and E. A. Edmon, Dayton, Ohio. Mechanical starter. No. 1,327,942; Jan. 13; v. 270; p. 259.
Christie, Walter, Weehawken, N. J. Tractor. No. 1,336,130; Apr. 6; v. 273; p. 81.
Christie, Walter, Weehawken, N. J. Tractor. No. 1,336,131; Apr. 6; v. 273; p. 81.
Christie, Walter, Weehawken, N. J. Transmission-gearing. No. 1,336,132; Apr. 6; v. 273; p. 81.
Christie, Walter, Weehawken, N. J. Tractor. No. 1,336,133; Apr. 6; v. 273; p. 81.
Christie, Walter, Weehawken, N. J. Tractor. (Reissue.) No. 14,808; June 1; v. 275; p. 156.
Christin, Louis, Geneva, Switzerland. Reinforced hollow board. No. 1,329,292; Jan. 27; v. 270; p. 579.
Christin, Louis, Geneva, Switzerland. Construction of concrete floorings and non-sonorous ceilings. No. 1,343,659; June 15; v. 275; p. 518.
Christie, William E. (See Ranc F., Jr., and Christie.)
Christman, Anton G., and C. K. Koepp, Milwaukee, Wis. Paint composition. No. 1,342,497; June 8; v. 275; p. 225.
Christmas, Adolph F., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Governing mechanism for internal-combustion engines. No. 1,349,146; Aug. 10; v. 277; p. 249.
Christmas, Adolph F., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Governing fuel-pump. No. 1,352,050; Sept. 7; v. 278; p. 65.
Christoffel, Thomas, assignor of one-half to F. Iseli, St. Paul, Minn. Window-frame with sash-cord holder. No. 1,344,532; June 22; v. 275; p. 755.
Christoph, Emil A. (See Meutsch, C. C., and Christoph.)
Christophel, Carl E. (See Lockton, F. B., and Christophel.)
Christophel, Carl E., assignor to Dexter Folder Company, Pearl River, N. Y. Pneumatic sheet-feeder. No. 1,333,833; Mar. 16; v. 272; p. 426.
Christophel, Carl E., assignor to Dexter Folder Company, Pearl River, N. Y. Slow-down sheet-straightener. No. 1,347,145; July 20; v. 276; p. 479.
Christophel, Carl E., assignor to Dexter Folder Company, Pearl River, N. Y. Sheet-feeding machine. No. 1,347,893; July 27; v. 276; p. 685.
Christophel, Carl E., assignor to Dexter Folder Company, Pearl River, N. Y. Sheet-feeding machines. No. 1,357,612; Nov. 2; v. 280; p. 77.
Christopher, Arthur B., assignor to The Measuregraph Company, St. Louis, Mo. Calculator. No. 1,343,660; June 15; v. 275; p. 518.
Christopher, Calvin F., Asheville, N. C. Wheel-rim. No. 1,346,178; July 13; v. 276; p. 229.
Christopher, Calvin F., Canton, assignor of one-half to J. H. Everett, Bryson City, N. C. Collapsible box. No. 1,339,021; May 4; v. 274; p. 68.
Christopher, Walter T., Detroit, Mich. Multiple-expansion arbor. No. 1,363,310; Dec. 28; v. 281; p. 599.
Christopher, William M., Amsterdam, N. Y. Broom. No. 1,329,826; Feb. 3; v. 271; p. 90.
Christopher, William M., assignor to Pioneer Broom Company, Amsterdam, N. Y. Scraping attachment for broom-corn-sizing machines. No. 1,344,332; June 22; v. 275; p. 715.
Christophersen, Erling, New York, N. Y. Engine-exhaust muffler. No. 1,356,696; Oct. 26; v. 279; p. 581.
Christophersen, Morten, Brooklyn, N. Y. Freight-car. No. 1,333,464; Mar. 9; v. 272; p. 296.
Christy, Blanche C., Chicago, Ill. Mitten-fastener. No. 1,361,565; Dec. 7; v. 281; p. 119.
Chrobak, Kazimier. (See Croston, E. A., and Chrobak.)
Chrobak, Kazimier, Rosemont, W. Va. Bicycle. No. 1,332,709; Mar. 2; v. 272; p. 102.
Chrobak, Kazimier, assignor of one-third to M. Semeryk, Rosemont, W. Va. Railway-gate. No. 1,332,710; Mar. 2; v. 272; p. 102.
Chrobak, Kazimier, assignor of one-half to J. Kryvoshey, Rosemont, W. Va. Adjustable picture-frame. No. 1,341,971; June 1; v. 275; p. 70.
Chromaster, Charles O., Milwaukee, Wis. Sanitary container. No. 1,337,195; Apr. 20; v. 273; p. 417.
Chryst, William A. (See Kettering, C. F., and Chryst.)
Chrzanowski, Alexander, Baltimore, Md. Clock-case. No. 1,363,311; Dec. 28; v. 281; p. 599.
Chubb, Lewis W. (See Fortescue, C. L., and Chubb.)
Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Signaling system for railways. No. 1,333,606; Mar. 16; v. 272; p. 383.
Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Device for producing polar oscillograms. (Reissue.) No. 14,821; Mar. 23; v. 272; p. 688.
Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Circuit-interrupter. No. 1,341,631; June 1; v. 275; p. 4.
Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrolytic cell. No. 1,344,752; June 29; v. 275; p. 863.
Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Vacuum-type inverted converter. No. 1,347,894; July 27; 276; p. 685.
Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Plate for electrolytic cells. No. 1,348,206; Aug. 3; v. 277; p. 14.
Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrolytic cell. No. 1,348,207; Aug. 3; v. 277; p. 14.

Digitized by Google

Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical precipitating system. No. 1,349,362; Aug. 10; v. 277; p. 292.
Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Converting system. No. 1,357,223; Nov. 2; v. 280; p. 5.
Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Double-frequency distributing system. No. 1,362,081; Dec. 14; v. 281; p. 267.
Chubb, Lewis W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrolytic cell. No. 1,344,753; June 29; v. 275; p. 863.
Chubb, Lewis W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electric heating element. No. 1,360,267; Nov. 30; v. 280; p. 820.
Chuck, William B., New York, N. Y. Carbon-removing apparatus. No. 1,332,606; Mar. 2; v. 272; p. 83.
Chung, Kun S., Honolulu, Hawaii. Scraper. No. 1,327,522; Jan. 6; v. 270; p. 120.
Church, Albert E., New Britain, Conn. Drill-press chuck. No. 1,345,583; July 6; v. 276; p. 50.
Church, Edmund S., Chicago, Ill. Check-valve. No. 1,339,101; May 4; v. 274; p. 85.
Church, Edmund S., Chicago, Ill. Oil-can. No. 1,350,702; Aug. 24; v. 277; p. 672.
Church, Edmund S., assignor to Automatic Carbureter Co., Chicago, Ill. Fuel-feeding device for explosive-engines. No. 1,362,394; Dec. 14; v. 281; p. 328.
Church, Everett V. (See Meade, J. F., and Church.)
Church, Frank L., Cocoanut Grove, Fla. Propulsion of aircraft. No. 1,356,429; Oct. 19; v. 279; p. 482.
Church, George F., Perry township, Marion county, Ind. Plant-setting implement. No. 1,363,176; Dec. 21; v. 281; p. 532.
Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,827,147; Jan. 6; v. 270; p. 50.
Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,336,462; Apr. 13; v. 273; p. 202.
Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,339,496; May 11; v. 274; p. 233.
Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,339,497; May 11; v. 274; p. 233.
Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,346,530; July 13; v. 276; p. 299.
Church, Ira, assignor of one-half to L. Sanford, Reed City, Mich. Ratchet and clutch mechanism. No. 1,352,354; Sept. 7; v. 278; p. 123.
Church, James B., Southport, N. C. Rowlock-holder. No. 1,829,579; Feb. 3; v. 271; p. 44.
Church, John L., Oakland, Calif. Dice-game device. No. 1,353,380; Sept. 21; v. 278; p. 420.
Church, Maynard D., assignor to The Terry Steam Turbine Company, Hartford, Conn. System of engine control. No. 1,354,885; Oct. 5; v. 279; p. 88.
Church, Maynard D., assignor to The Terry Steam Turbine Company, Hartford, Conn. System of engine control. No. 1,354,886; Oct. 5; v. 279; p. 88.
Church, Quincey G., Alta, Iowa. Collapsible barrel. No. 1,332,245; Mar. 2; v. 272; p. 13.
Church, Ralph, Shulls Mills, N. C. Fountain-brush. No. 1,337,998; Apr. 27; v. 273; p. 639.
Church, Shelby L., Houston, Tex. Pneumatic tire. No. 1,346,113; July 13; v. 276; p. 217.
Church, Walter L., Humble, Tex. Well-drilling device. No. 1,330,736; Feb. 10; v. 271; p. 291.
Church, William H., Superb, Saskatchewan, Canada. Shocking-machine. No. 1,332,104; Feb. 24; v. 271; p. 637.
Church, William H., Superb, Saskatchewan, Canada. Attachment to shocking-machines. No. 1,341,167; May 25; v. 274; p. 678.
Churchill, Charles W., Lowell, Mass. Ice-creeper. No. 1,340,877. May 25; v. 274; p. 622.
Churchill, Clifford, Kansas City, Mo. Bank-check. No. 1,343,762; June 15; v. 275; p. 538.
Churchill, Frank H., *et al.* (See Sanders, John F., assignor.)
Churchill, Patrick, Manchester, England. Buoyant life-saving fitting and appliance for ships. No. 1,351 836; Sept. 7; v. 278; p. 24.
Churchill, Patrick, Manchester, England. Buoyant life-saving fitting and appliance for ships. No. 1,359,152; Nov. 16; v. 280; p. 485.
Churchill, William. (See Gage, H. P., and Churchill.)
Churchill, William, assignor to Corning Glass Works, Corning, N. Y. Headlight for vehicles. No. 1,338,675; May 4; v. 274; p. 5.
Churchill, William, assignor to Corning Glass Works, Corning, N. Y. Optical system for projectors. No. 1,363,566; Dec. 28; v. 281; p. 648.
Churchward, Alexander, New York, N. Y. Starting mechanism for internal-combustion engines. No. 1,350,703; Aug. 24; v. 277; p. 673.
Churchward, Alexander, assignor to Wilson Welder & Metals Company, Inc., New York, N. Y. Electric welding method and apparatus. No. 1,355,124; Oct. 12; v. 279; p. 186.
Churchward, Jack, New York, N. Y., assignor to Wilson Welder & Metals Company, Inc. Electrical-arc-welding electrode and making. No. 1,333,586; Mar. 9; v. 272; p. 319.
Churchward, Jack, New York, N. Y., assignor to Wilson Welder & Metals Company, Inc. Electrical-arc welding. No. 1,335,875; Apr. 6; v. 273; p. 32.
Churchward, Jack, New York, N. Y., assignor to Wilson Welder & Metals Company, Inc. Metallic-arc welding. No. 1,337,543; Apr. 20; v. 273; p. 483.
Chury, Andy, Harrisburg, Ill. Life-saving suit. No. 1,363,086; Dec. 21; v. 281; p. 515.
Chwala, John, Chicago, Ill. Card or tag holder. No. 1,330,684; Feb. 10; v. 271; p. 281.
Chytracek, Joseph, Clifton Mills, W. Va. Parachute. No. 1,345,533; July 6; v. 276; p. 41.
Chytracek, Joseph, Clifton Mills, W. Va. Ash-sifter. No. 1,354,243; Sept. 28; v. 278; p. 638.
Ciabotti, Ciro, Milan, Italy. Leaf-turning device. No. 1,345,316; June 29; v. 275; p. 971.
Ciaccia, Michael, Albany, N. Y. Back-draft-preventing chimney-cowl. No. 1,343,763; June 15; v. 275; p. 538.
Cianfroné, Ralph F., West New York, N. J. Electric power-hammer. No. 1,357,613; Nov. 2; v. 280; p. 78.
Cianovich, Mike, Maywood, Ill. Box-lid support. No. 1,337,999; Apr. 27; v. 273; p. 639.
Cibulka, George A., St. Louis, Mo. Collapsible box. No. 1,353,629; Sept. 21; v. 278; p. 470.
Ciccone, Angelo. (See Costa, G., and Ciccone.)
Cigar Machine Corporation of America, The. (See Gindrat, Louis R., assignor.)
Cigol, Frank A., Paterson, N. J. Apparatus for forming hollow articles of rubber. No. 1,358,289; Nov. 9; v. 280; p. 270.
Cilley, Earl O., V. I., and I. J., Grand Rapids, Mich. Panel for direction-indicators. No. 1,357,273; Nov. 2; v. 280; p. 14.
Cilley, Ithiel J. (See Cilley, Earl O., V. I., and I. J.)
Cilley, Ithiel J. (See Cilley, Vrl I., and I. J.)
Cilley, Osborn H., Westford, assignor to C. G. Sargent's Sons Corporation, Graniteville, Mass. Method of and apparatus for treating asbestos. No. 1,338,613; Apr. 27; v. 273; p. 754.
Cilley, V. I. and I. J., Grand Rapids, Mich. Direction-indicator. No. 1,357,274; Nov. 2; v. 280; p. 14.
Cilley, Vrl I. (See Cilley, Earl O., V. I., and I. J.)
Cima, Valentine, Chicago, Ill. Window-sash operator. No. 1,339,879; May 11; v. 274; p. 306.
Cincinnati Auto Specialty Co., The. (See Connor, A. W. and Anderson, assignors.)
Cincinnati Ball Crank Company, The. (See Kaps, Richard A., assignor.)
Cincinnati Car Company, The. (See Elliott, Thomas, assignor.)
Cincinnati Coffin Company, The. (See Betts, A. B., and Goke, assignors.)
Cincinnati Grinder Company, The. (See Kimmel, George C., assignor.)
Cincinnati Lathe & Tool Company, The. (See Thiel, Louis, assignor.)
Cincinnati Specialty Manufacturing Company, The. (See Oakley, Fred F., assignor.)
Cincinnati Time Recorder Company, The. (See Carroll, William J., assignor.)
Cinille, Georges, Epierre, France. Manufacture of steel. No. 1,352,580; Sept. 14; v. 278; p. 203.
Cinq-Mars, Legendre, San Francisco, Calif. Gas-radiator. No. 1,339,944; May 11; v. 274; p. 318.
Cirac, Charles P., Fallon, Nev. Safety reverse-movement lock for automobiles. No. 1,362,783; Dec. 21; v. 281; p. 456.
Cirelli, Francesco, Philadelphia, Pa. Time-controlled starting mechanism. No. 1,345,584; July 6; v. 276; p. 50.
Cirelli, Francesco, Philadelphia, Pa. Sound-reproducing machine. No. 1,357,381; Nov. 2; v. 280; p. 34.
Cirelli, Francisco, Philadelphia, Pa. Talking-machine. No. 1,357,382; Nov. 2; v. 280; p. 35.
Cirniawa, Ludwig, administrator. (See Praszek, Anthony, assignor.)
Ciselet, Edgard, and C. Deguide, Brussels, Belgium. Purification of distillation-gases of coal. No. 1,349,750; Aug. 17; v. 277; p. 442.
Cissel, George W., and J. P. Appleman, Washington, D. C. Automobile-windshield screen. No. 1,345,585; July 6; v. 276; p. 51.
Citizens Savings and Trust Company, The, operating trustee. (See Melanowski, Leo, assignor.)
City Machine and Tool Works. (See Nickol, F. C., and Knowles, assignors.)
Civitts, Orrange H., Pittsburgh, Pa. Measuring instrument. No. 1,331,415; Feb. 17; v. 271; p. 487.
Claessen, Austin H. Ipoh, Perak, Federated Malay States. Utilization of bark-shavings from rubber-trees. No. 1,357,845; Nov. 2; v. 280; p. 123.
Claesson, Helge L., Gottenborg, Sweden. Automatic door-closer. No. 1,346,366; July 13; v. 276; p. 266.

Digitized by Google

Claffay, Thomas J., *et al.* (See Johnston, James A., assignor.)
Claflin, Albert B., Toledo, Oreg. Clothes-hook. No. 1,340,014; May 11; v. 274; p. 331.
Claflin, Albert B., Toledo, Oreg. Hammock or bed construction. No. 1,340,015; May 11; v. 274; p. 331.
Claire, Louis V., assignor to Victory Ring Compressor Company, Grand Rapids, Mich. Piston-ring squeezer. No. 1,335,367; Mar. 30; v. 272; p. 821.
Claire, Louis V., assignor to Victory Ring Compressor Company, Grand Rapids, Mich. Piston-ring squeezer. No. 1,335,658; Mar. 30; v. 272; p. 876.
Claire, Louis V., Grand Rapids, assignor of one-third to M. A. Wohlscheid, Grand Rapids, and one-third to N. Wohlscheid, Westphalia, Mich. Hose-coupling. No. 1,356,126; Oct. 19; v. 279; p. 423.
Clamer, George F., Collegeville, Pa. Electric system for storage and measurement of gasolene. No. 1,338,814; May 4; v. 274; p. 31.
Clamert Manufacturing Company, The. (See Emmert, George W., assignor.)
Clampett, William H., London, Ontario, Canada. Bed-rest. No. 1,336,197; Apr. 6; v. 273; p. 93.
Clancy, John, Kenner, La. Rail-joint. No. 1,329,227; Jan. 27; v. 270; p. 568.
Clancy, John C., Freeport, N. Y., assignor to The Nitrogen Corporation, Providence, R. I. Producing cyanogen compounds. No. 1,329,652; Feb. 3; v. 271; p. 57.
Clancy, John C., Freeport, N. Y., assignor to The Nitrogen Corporation, Providence, R. I. Obtaining the cyanogen compound of an alkali metal. No. 1,352,175; Sept. 7; v. 278; p. 89.
Clancy, John C., Freeport, N. Y., assignor to The Nitrogen Corporation, Providence, R. I. Process of and means for forming nitrogenous compounds. No. 1,352,176; Sept. 7; v. 278; p. 89.
Clancy, John C., New York, N. Y., assignor to The Nitrogen Corporation, Providence, R. I. Production of ammonia. No. 1,352,174; Sept. 7; v. 278; p. 89.
Clancy, John C., Niagara Falls, N. Y., assignor to The Nitrogen Corporation, Providence, R. I. Ammonia synthesis catalyst and making same. No. 1,352,177; Sept. 7; v. 278; p. 89.
Clancy, John C., Niagara Falls, N. Y., assignor to The Nitrogen Corporation, Providence, R. I. Ammonia synthesis and catalyst therefor. No. 1,352,178; Sept. 7; v. 278; p. 89.
Clancy, John C., Niagara Falls, N. Y., assignor to The Nitrogen Corporation, Providence, R. I. Ammonia synthesis. No. 1,352,179; Sept. 7; v. 278; p. 89.
Clancy, John C., Niagara Falls, N. Y., assignor to The Nitrogen Corporation, Providence, R. I. Production of ammonia. No. 1,352,180; Sept. 7; v. 278; p. 89.
Clancy, John C., Niagara Falls, N. Y., assignor to The Nitrogen Corporation, Providence, R. I. Production of ammonia. No. 1,352,181; Sept. 7; v. 278; p. 89.
Clancy, John C., Niagara Falls, N. Y., assignor to The Nitrogen Corporation, Providence, R. I. Production of ammonia. No. 1,352,182; Sept. 7; v. 278; p. 89.
Clancy, John C., Niagara Falls, N. Y., assignor to The Nitrogen Corporation, Providence, R. I. Catalyst for ammonia synthesis and preparing same. No. 1,363,392; Dec. 28; v. 281; p. 613.
Clancy, John C., assignor to The Nitrogen Corporation, Providence, R. I. Synthesizing ammonia. No. 1,363,393; Dec. 28; v. 281; p. 613.
Clancy, John R. (See Williams, Mowry S., assignor.)
Clapers, Salvador, Baltimore, Md. Slot vending-machine. No. 1,347,683; July 27; v. 276; p. 642.
Clapp, Albert L., Marblehead, Mass. Counter-board and producing same. No. 1,345,317; June 29; v. 275; p. 971.
Clapp, Albert L., Marblehead, Mass. Waterproof paper and producing same. No. 1,345,476; July 6; v. 276; p. 29.
Clapp, Albert L., Marblehead, assignor to The Metalite Company, Amesbury, Mass. Counter-board and making same. No. 1,332,541; Mar. 2; v. 272; p. 71.
Clapp, Albert L., Marblehead, assignor to The Flintkote Company, Boston, Mass. Sheet material adapted for saturation for roofing purposes. No. 1,362,850; Dec. 21; v. 281; p. 469.
Clapp, E. H., Rubber Company. (See Pratt, William B., assignor.)
Clapp, Harry B., Wimbledon, assignor to D. R. Blair, Piccadilly, London, England. Manufacture of iron and steel. No. 1,330,846; Feb. 17; v. 271; p. 380.
Clapp, William B., Abington, Mass. Cranberry-picker. No. 1,354,283; Sept. 28; v. 278; p. 646.
Clappison, John H., Detroit, Mich. Dispensing device for nut-meats. No. 1,337,440; Apr. 20; v. 273; p. 463.
Clare, Peter, assignor of one-half to G. W. Wilson, Valley, Wash. Hook. No. 1,353,026; Sept. 14; v. 278; p. 292.
Clare, Sydney, Fitzgerald, Ga. Automobile-extracting device. No. 1,357,148; Oct. 26; v. 279; p. 670.
Claremont, Ernest A. (See Beaver, Stratton, and Claremont.)
Clarenbach, Louis, Passaic, N. J. Textile-fabric-treating machine. No. 1,351,621; Aug. 31; v. 277; p. 914.
Clarinda Lawn Mower Company. (See Toll, Herman H., assignor.)

Clark, A. C., & Co. (See Clark, Albert C., assignor.)
Clark, A. D. (See Fahrig, Ernest, assignor.)
Clark, Absolam F., Los Angeles, Calif. Electromechanical propelling and transmitting mechanism. No. 1,347,250; July 20; v. 276; p. 500.
Clark, Adolphus Y., Short Creek, Ariz., assignor to Safety First Metal Tie Company, Salt Lake City, Utah. Railway-tie. No. 1,355,891; Oct. 19; v. 279; p. 376.
Clark, Adolphus Y., Short Creek, Ariz., assignor to Safety First Metal Tie Company, Salt Lake City, Utah. Railway-tie. No. 1,355,892; Oct. 19; v. 279; p. 376.
Clark, Albert C., assignor to A. C. Clark & Co., Chicago, Ill. Anesthetic apparatus. No. 1,338,905; May 4; v. 274; p. 47.
Clark, Alonzo B., Mansfield, Ohio. Wire-hanger. No. 1,334,228; Mar. 16; v. 272; p. 499.
Clark, Bertha, Brooklyn, N. Y. Waistband. No. 1,348,035; June 8; v. 275; p. 332.
Clark, Bertha, New York, N. Y. Fastener-mounting. No. 1,358,520; Nov. 9; v. 280; p. 318.
Clark, Charles D. (See Clark, Willis, assignor.)
Clark, Charles E., and A. G. Dowell, San Francisco, Calif.; said Dowell assignor to said Clark. Electric heater. No. 1,327,986; Jan. 13; v. 270; p. 268.
Clark, Charles H., New York, N. Y. Shaft-coupling. No. 1,337,642; Apr. 20; v. 273; p. 501.
Clark, Charles H., Dormont, and H. L. Beach, Edgewood, Pa. Tilting side-dump car. No. 1,333,293; Mar. 9; v. 272; p. 263.
Clark, Charles J. (See Spencer, George N., assignor.)
Clark, Charles L., E. H. Perkins, and C. S. We Mett, Wayland, N. Y. Valve-spring compressor. No. 1,357,954; Nov. 9; v. 280; p. 205.
Clark, Charles M. (See Davis, A., and Clark.)
Clark, Charles T., Bay City, Mich., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Wood distillation. No. 1,337,342; Apr. 20; v. 273; p. 445.
Clark, Cherry R., Muskegon, Mich. Piston-ring groove. No. 1,334,888; Mar. 23; v. 272; p. 671.
Clark, Chester A., Kennett, Calif. Tire-remover. No. 1,361,306; Dec. 7; v. 281; p. 65.
Clark, Chester H., Davenport, Iowa. Vehicle-engine heater. No. 1,359,871; Nov. 23; v. 280; p. 673.
Clark, Claiborn, Los Angeles, Calif. Railway-crossing. No. 1,340,750; May 18; v. 274; p. 527.
Clark, Clinton W. (See Bacon, R. F., Brooks, and Clark.)
Clark, Cornelius S., assignor of one-fourth to W. H. Venable and E. S. Ely, Norfolk, Va. Rail-chair. No. 1,342,251; June 1; v. 275; p. 126.
Clark, Daniel, Edmonton, Alberta, Canada. Air-circulating system for cars. No. 1,328,820; Jan. 27; v. 270; p. 490.
Clark, Don A., and C. E. Lowe, assignors, by mesne assignments, to The Republic Tool and Manufacturing Company, Cleveland, Ohio. Tire-core. No. 1,330,784; Feb. 17; v. 271; p. 368.
Clark, Don A., and C. E. Lowe, assignors, by mesne assignments, to The Republic Tool and Manufacturing Company, Cleveland, Ohio. Mandrel for tire-tubes. No. 1,330,785; Feb. 17; v. 271; p. 369.
Clark, Dudley B., Bemus Point, N. Y. Cigar-lighter. No. 1,362,227; Dec. 14; v. 281; p. 296.
Clark, Earl W., Sharon, Pa. Furnace-slagging apparatus. No. 1,329,293; Jan. 27; v. 270; p. 580.
Clark, Earl W., Sharon, Pa. Method and apparatus for removing molten metal from furnaces. No. 1,332,973; Mar. 9; v. 272; p. 204.
Clark, Earl W., Sharon, and F. C. Clarke, near Sharon, Pa. Slagging-machine for furnaces. No. 1,340,156; May 18; v. 274; p. 416.
Clark, Edgar H. (See Lundell, A. E., and Clark.)
Clark, Edgar H., assignor to Western Electric Company, Incorporated, New York, N. Y. Controlling device. No. 1,334,735; Mar. 23; v. 272; p. 641.
Clark, Edward, Milwaukee, Wis. Vehicle-spring. No. 1,338,854; May 4; v. 274; p. 38.
Clark, Edward O., assignor of one-half to E. S. Redeker, Spokane, Wash. Piston-ring clamp. No. 1,350,704; Aug. 24; v. 277; p. 673.
Clark, Edward W., Los Angeles, assignor of one-half to S. S. Turner, Pasadena, Calif. Adjustable core-box. No. 1,347,080; July 20; v. 276; p. 467.
Clark, Edward W., Los Angeles, assignor of one-half to S. S. Turner, Pasadena, Calif. Core-box. No. 1,357,081; July 20; v. 276; p. 467.
Clark, Edward W., Los Angeles, Calif. Article of manufacture. No. 1,358,364; Nov. 9; v. 280; p. 286.
Clark, Edward F., North Attleboro, Mass. Compass. No. 1,360,095; Nov. 23; v. 280; p. 717.
Clark, Edward F., Minneapolis, Minn. Grinding-roll. No. 1,360,887; Nov. 30; v. 280; p. 941.
Clark, Edward F., assignor to Clarx Milling Company, Minneapolis, Minn. Flour process and apparatus. No. 1,360,499; Nov. 30; v. 280; p. 865.
Clark, Edwin C., Delano, Calif. Automobile-signal. No. 1,343,248; June 15; v. 275; p. 438.
Clark, Emerson L., Lakewood, Ohio. Headlight. No. 1,345,073; June 29; v. 275; p. 923.
Clark Equipment Company. (See Burrows, Robert J., assignor.)

Digitized by Google

Clark, Ernest D., Harrisonburg, Va. Fruit sorting or grading apparatus. No. 1,356,852; Oct. 26; v. 279; p. 612.

Clark, Ernest G., De Kalb, Ill., assignor to The Q R S Music Company, Chicago, Ill. Hand stamping device. No. 1,337,591; Apr. 20; v. 273; p. 492.

Clark, Ernest H., Birmingham, Ala. Record-book. No. 1,353,315; Sept. 21; v. 278; p. 407.

Clark, Ezra E., Newtonville, Mass. Dry-pipe valve. No. 1,344,380; June 22; v 275; p. 724.

Clark, Ezra E., Newton, Mass. Dry-pipe valve. No. 1,348,981; Aug. 10; v. 277; p. 216.

Clark, Francisco, Durango, Mexico. Combination-key. No. 1,353,722; Sept. 21; v. 278; p. 489.

Clark, Frederick, Jersey City, N. J. Mechanical movement. No. 1,354,955; Oct. 5; v. 279; p. 101.

Clark, Fredrick F., Alameda, assignor to Alaska Packers Association, San Francisco, Calif. Sheet-plate-feeding machine. No. 1,335,556; Mar. 30; v. 272; p. 856.

Clark, Frederick H., New York, and M. M. Whitaker, Nyack, N. Y. Ship. No. 1,334,349; Mar. 23; v. 272; p. 569.

Clark, George C., assignor of three-fourths to Charles F. Gross, Oakland, Calif. Electric typewriter. No. 1,355,089; Oct. 5; v. 279; p. 127.

Clark, George H., Cambridge, assignor to Crosby Steam Gage & Valve Company, Boston, Mass. Safety-valve. No. 1,356,853; Oct. 26; v. 279; p. 612.

Clark, George H., Cambridge, assignor to Crosby Steam Gage & Valve Company, Boston, Mass. Safety-valve. No. 1,356,854; Oct. 26; v. 279; p. 612.

Clark, George R., Washington, D. C. Writing-pad. No. 1,361,366; Dec. 7; v. 281; p. 77.

Clark, Hans T., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ether composition and making same. No. 1,357,614; Nov. 2; v. 280; p. 78.

Clark, Harry A., Detroit, Mich. Railway-tie and fastener. No. 1,361,750; Dec. 7; v. 281; p. 154.

Clark, Harry R., Golden City, Mo. Vertically-adjustable hand-truck. No. 1,343,864; June 15; v. 275; p. 559.

Clark, Jerrie, Springfield, Mass. Cream-separator. No. 1,341,261; May 25; v. 274; p. 696.

Clark, Jesse D., New Albany, Miss. Land-mine and system of exploding same. No. 1,333,900; Mar. 16; v. 272; p. 438.

Clark, John, Flint, Mich. Ice-cream freezer. No. 1,351,622; Aug. 31; v. 277; p. 915.

Clark, John E., Toronto, Ontario, Canada. Process and apparatus of treating material. No. 1,363,230; Dec. 28; v. 281; p. 583.

Clark, John E., Toronto, Ontario, Canada, assignor to The Clark Paving Corporation, New York, N. Y. Treating vegetable material for paving or other purposes. No. 1,364,037; Dec. 28; v. 281; p. 738.

Clark, John E., Kanawha county, W. Va., assignor to The Clark Paving Corporation, New York, N. Y. Composition road-surfacing and laying same. No. 1,364,036; Dec. 28; v. 281; p. 738.

Clark, John G. (See Allen, Guy L., assignor.)

Clark, L. A. (See Floyd, Charles W., assignor.)

Clark, Lafayette D., Waterville, Me. Nursing-bottle attachment. No. 1,343,113; June 8; v. 275; p. 348.

Clark, Lida F. C., executrix. (See Clark, Norris E.)

Clark, Melville A., Syracuse, N. Y. Harp. No. 1,351,468; Aug. 31; v. 277; p. 685.

Clark, N. M., and C. E. Hubback, Santa Clara, Calif. Candy-cutter. No. 1,355,893; Oct. 19; v. 279; p. 377.

Clark, Norris E., deceased, Plainville, Conn.; L. F. C. Clark, executrix, assignor to R. S. Allyn, trustee, New York, N. Y. Expanded-metal machine. No. 1,361,138; Dec. 7; v. 281; p. 31.

Clark, Ohio C. B., Akron, Ohio. Adjustable-socket ratchet-wrench. No. 1,327,702; Jan. 13; v. 270; p. 215.

Clark Paving Corporation, The. (See Clark, John E., assignor.)

Clark, Reed J., Jr., Youngstown, Ohio. Washing-machine. No. 1,347,617; July 27; v. 276; p. 629.

Clark, Robert. (See Spencer, H. W., and Clark.)

Clark, Robert G., Brooklyn, N. Y. Boat supporting and launching apparatus for ships. No. 1,344,754; June 29; v. 275; p. 863.

Clark, Robert H., Winnipeg, Manitoba, Canada. Wheel. No. 1,354,466; Oct. 5; v. 279; p. 4.

Clark, Robert L., Union, W. Va. Robe-holder. No. 1,342,274; June 1; v. 275; p. 130.

Clark, Robert L., Union, W. Va. Device for attaching wires to insulators. No. 1,358,521; Nov. 9; v. 280; p. 318.

Clark, Robert P. and W. H., Fresno, Calif. Shock-absorber for vehicles. No. 1,335,557; Mar. 30; v. 272; p. 856.

Clark, Thomas E., and C. W. Ward, Detroit, Mich.; said Ward assignor to said Clark. Plaiting-machine. No. 1,331,486; Feb. 24; v. 271; p. 520.

Clark, Walter R., assignor to Bridgeport Brass Company, Bridgeport, Conn. Melting brass and similar scrap. No. 1,328,712; Jan. 20; v. 270; p. 441.

Clark, Walter R., assignor to Bridgeport Brass Company, Bridgeport, Conn. Electric furnace. No. 1,328,713; Jan. 20; v. 270; p. 441.

Clark, Walter R., assignor to Bridgeport Brass Company, Bridgeport, Conn. Method of and means for melting brass and similar scrap. No. 1,328,714; Jan. 20; v. 270; p. 441.

Clark, Walter R., assignor to Bridgeport Brass Company, Bridgeport, Conn. Tilting furnace or like structure. No. 1,358,620; Nov. 9; v. 280; p. 338.

Clark, Walter R., assignor to Bridgeport Brass Company, Bridgeport, Conn. Tilting furnace or like structure. No. 1,358,621; Nov. 9; v. 280; p. 338.

Clark, Wilbur S., Camden, N. J. Desk-fixture. No. 1,332,458; Mar. 2; v. 272; p. 54.

Clark, William G., *et al.* (See Murphey, Charles E., assignor.)

Clark, William H. (See Clarke, Robert P. and W. H.)

Clark, William T., assignor to T. W. Wood & Sons, Richmond, Va. Corn-shelling device. No. 1,361,444; Dec. 7; v. 281; p. 94.

Clark, Willis, assignor of one-half to C. D. Clark, Buffalo, N. Y. Expanding drill. No. 1,357,689; Nov. 2; v. 280; p. 92.

Clarke, Addison H., Baltimore, Md. Interfloor heater. No. 1,332,459; Mar. 2; v. 272; p. 54.

Clarke, Alex A., Dallas, Tex. Handle attachment for surface-treating machines. No. 1,352,581; Sept. 14; v. 278; p. 203.

Clarke, Alex A., Dallas, Tex. Surface-treating device. No. 1,352,582; Sept. 14; v. 278; p. 203.

Clarke, Alex A., Dallas, Tex. Surface-treating machine. No. 1,352,583; Sept. 14; v. 278; p. 203.

Clarke, Alex A., Dallas, Tex. Surface-treating machine. No. 1,356,337; Oct. 19; v. 279; p. 465.

Clarke, Alex A., Dallas, Tex. Surface-treating device. No. 1,356,338; Oct. 19; v. 279; p. 465.

Clarke, Alex A., Dallas, Tex. Surface-treating machine. No. 1,356,339; Oct. 19; v. 279; p. 465.

Clarke, Alex A., Dallas, Tex. Surface-treating machine. No. 1,363,312; Dec. 28; v. 281; p. 599.

Clarke, Athol W., Chorlton-cum-Hardy, near Manchester, England. Apparatus for recording or indicating the movements of a mass. No. 1,350,705; Aug. 24; v. 277; p. 673.

Clarke, Charles E. (See Bevan, W. W., and Clarke.)

Clarke, Charles F., Madison, Wis. Pen attachment. No. 1,337,196; Apr. 20; v. 273; p. 417.

Clarke, Charles M., Sewickley, Pa. Discharge-chute for concrete-mixers. No. 1,333,705; Mar. 16; v. 272; p. 402.

Clarke, Claude E., Bridgeport, Conn. Attachment for automobile-headlights. No. 1,362,395; Dec. 14; v. 281; p. 328.

Clarke, Delbert I., Elaine, Ark. Wire-stretcher. No. 1,331,321; Feb. 17; v. 271; p. 469.

Clarke, Elmer E., *et al.* (See Heiliger, Paul, assignor.)

Clarke, Frank C. (See Clark, E. W., and Clarke.)

Clarke, Frederick F., assignor to Colburn Machine Tool Company, Franklin, Pa. Center-indicating device. No. 1,351,504; Aug. 31; v. 277; p. 891.

Clarke, George B., Keremeos, British Columbia, Canada. Fencepost. No. 1,338,423; Apr. 27; v. 273; p. 719.

Clarke, Harry D. (See Zuhars, B. C., and Clarke.)

Clarke, John A., Jr., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,339,945; May 11; v. 274; p. 319.

Clarke, John A., Jr., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,354,168; Sept. 28; v. 278; p. 622.

Clarke, John S., East Cleveland, assignor of one-half to C. L. Peck, Cleveland, Ohio. Pulling and lowering implement. No. 1,331,414; Feb. 17; v. 271; p. 487.

Clarke, John T. (See Hewett, R. J., and Ward, assignors.)

Clarke, John V., Seven Kings, England. Separating thorium from other rare earths and manufacture of thorium nitrate and other thorium salts. No. 1,335,482; Mar. 30; v. 272; p. 842.

Clarke, Kenneth K., New York, N. Y. Variable-speed gearing. No. 1,354,956; Oct. 5; v. 279; p. 101.

Clarke, Louis S., Haverford, Pa. Explosive projectile. No. 1,357,927; Nov. 2; v. 280; p. 139.

Clarke, Lyman J., *et al.* (See Heiliger, Paul, assignor.)

Clarke, Matthew, deceased, and J. J. Murray, Wilkes-Barre, Pa.; S. Clarke, administrator. Direction-signal for motor-vehicles. No. 1,331,094; Feb. 17; v. 271; p. 428.

Clarke, Norman C. (Reissue.) (See Anderson, W. P., Clarke and Whitelaw.)

Clarke, Ralph S., Walpole, Mass., assignor to Bird Machine Company. Save-all. No. 1,338,211; Apr. 27; v. 273; p. 679.

Clarke, Ralph S., Walpole, Mass., assignor to Bird Machine Company. Strainer. No. 1,340,599; May 18; v. 274; p. 499.

Clarke, Richard T., Columbus, Ohio. Garment-supporter. No. 1,362,925; Dec. 21; v. 281; p. 482.

Clarke, St. John, Bogota, N. J. Shore-protector. No. 1,352,429; Sept. 14; v. 278; p. 172.

Clarke, Stanley, administrator. (See Clarke, M., and Murray.)

Clarke, Sydney A. P., Toronto, Ontario, Canada. Car-derailer. No. 1,358,290; Nov. 9; v. 280; p. 271.

Clarke, William, Montreal, Quebec, Canada. Liquid-fuel burner. No. 1,353,112; Sept. 14; v. 278; p. 308.

Digitized by Google

Alphabetical list of patentees—Continued.

Clarke, William L., Jr., Tallahassee, Fla. Non-slip motion-picture-film band. No. 1,345,129; June 29; v. 275; p. 934.
Clarkson, Thomas, Chelmsford, England. Feed-water supply apparatus for steam-generators. No. 1,350,988; Aug. 24; v. 277; p. 726.
Clary, Francis W., Syracuse, N. Y. Cardboard mailing-box. No. 1,361,965; Dec. 14; v. 281; p. 244.
Clary, Harry C., Columbus, Ind., assignor to Emerson-Brantingham Company, Rockford, Ill. Separator. No. 1,357,275; Nov. 2; v. 280; p. 14.
Clary, Joseph H., Lincoln, Ill. Bomb. No. 1,345,130; June 29; v. 275; p. 934.
Clary, Robert S., Greensboro, N. C. Vehicle-guard. No. 1,347,937; July 27; v. 276; p. 693.
Clary, Simon, Carnegie, Pa. Guard device for railways. No. 1,553,723; Sept. 21; v. 278; p. 489.
Clarx Milling Company. (See Clark, Edward F., assignor.)
Clasby, Stella M., New York, N. Y. Brassière. No. 1,354,467; Oct. 5; v. 279; p. 4.
Clasen, Claus J. W., Davenport, assignor to The Bettendorf Company, Bettendorf, Iowa. Railway side frame. No. 1,351,326; Aug. 31; v. 277; p. 856.
Clason, George S., Denver, Colo. Razor-blade handle. No. 1,360,888; Nov. 30; v. 280; p. 941.
Claude, Georges, assignor to L'Air Liquide (Societe Anonyme Pour l'Etude et L'Exploitation Des Procedes Georges Claude), Paris, France. Synthetic production of ammonia. No. 1,332,460; Mar. 2; v. 272; p. 55.
Claudel, Charles H., Levallois-Perret, France. Carbureter. No. 1,327,708; Jan. 13; v. 270; p. 215.
Clauder, Arthur W., assignor, by mesne assignments, to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Mandrel. No. 1,357,953; Nov. 9; v. 280; p. 205.
Claudon, Auguste E., Denver, Colo. Boring-tool. No. 1,359,965; Nov. 23; v. 280; p. 692.
Claus, Carl, Philadelphia, Pa. Metallic tote-box. No. 1,331,862; Feb. 24; v. 271; p. 593.
Claus, Emil L., Milwaukee, Wis. Ignition-torch for gas-burners. No. 1,339,102; May 4; v. 274; p. 85.
Claus, Emil L., Milwaukee, Wis. Torch-distributer head. No. 1,348,290; Aug. 3; v. 277; p. 51.
Clausen, Arthur W., Chicago, Ill. Car-coupling. No. 1,360,268; Nov. 30; v. 280; p. 820.
Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Impulse-sending device. No. 1,334,080; Mar. 16; v. 272; p. 673.
Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,337,197; Apr. 20; v. 273; p 417.
Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Calling device. No. 1,337,198; Apr. 20; v. 273; p. 418.
Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Supervisory system. No. 1,337,753; Apr. 20; v. 273; p. 523.
Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,337,754; Apr. 20; v. 273; p. 523.
Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,337,755; Apr. 20; v. 273; p. 565.
Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical testing system. No. 1,340,933; May 25; v. 274; p. 633.
Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Automatic telephone system. No. 1,340,934; May 25; v. 274; p. 633.
Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,345,348; July 6; v. 276; p. 5.
Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,345,349; July 6; v. 276; p. 5.
Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Impulse-controlling system. No. 1,353,517; Sept. 21; v. 278; p. 447.
Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,360,722; Nov. 30; v. 280; p. 909.
Clausen, Henry P., Mount Vernon, and C. L. Goodrum, assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,340,935; May 25; v. 274; p. 633.
Clausen, Henry P., Mount Vernon, and C. L. Goodrum, New York, assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,343,903; June 22; v. 275; p. 631.
Clausing, Louis F., Los Angeles, Calif. Radiator. No. 1,346,442; July 13; v. 276; p. 282.
Clauss, Edward P., Lyons, N. Y. Cut-off and relief valve for air-brakes. No. 1,350,138; Aug. 17; v. 277; p. 515.
Clauss, Max O., New York, N. Y., assignor to H. E. Verran Company. Label-making machine. No. 1,328,912; Jan. 27; v. 270; p. 509.
Claussen, Edward E., Hartford, Conn. Pulp-bottle. No. 1,328,317; Jan. 20; v. 270; p. 368.
Claussen, Edward E., Hartford, Conn. Machine for forming plastic articles. No. 1,359,489; Nov. 23; v. 280; p. 597.
Clavel, Alexander. (See Resch, Wilhelm, assignor.)
Clawson, Forest, Waterman, Ill. Cultivator. No. 1,355,812; Oct. 19; v. 279; p. 360.
Claxo Company, The. (See Slater, Vern, assignor.)
Clay, James R., Newark, N. J. Locking device for window-sashes. No. 1,362,983; Dec. 21; v. 281; p. 494.
Clay, John D., Port Washington, N. Y. Circuit-closer. No. 1,348,208; Aug. 3; v. 277; p. 15.
Clay, Joseph B., Cedar Falls, Iowa. Gate-latch or the like. No. 1,347,991; July 27; v. 276; p. 704.
Clay, Joseph B., Cedar Falls, Iowa. Stanchion. No. 1,355,538; Oct. 12; v. 279; p. 268.
Clay, Wallace L., U. S. Army. Tracer and incendiary bullet. No. 1,333,834; Mar. 16; v. 272; p. 426.
Clay, Wallace L., U. S. Army, and A. H. Hallowell, Frankford, Pa. Spot-light bullet. No. 1,337,343; Apr. 20; v. 273; p. 446.
Clay, William H., Eustis, Fla. Bow-facing oar. No. 1,353,027; Sept. 14; v. 278; p. 292.
Clayberg, Clarence C., Detroit, Mich. Belt-splicer. No. 1,341,359; May 25; v. 274; p. 716.
Clayberg, Clarence C., Detroit, Mich. Engine. No. 1,342,489; June 8; v. 275; p. 226.
Clayton & Company (Huddersfield) Limited. (See Jemmison, John W., assignor.)
Clayton, Enos, Detroit, Mich. Weather-strip. No. 1,341,682; June 1; v. 275; p. 4.
Clayton, Ernest S. (See Derby, J. H., and Clayton.)
Clayton, Henry R. H., and O. J. Rose, Hobart, Tasmania, Australia. Machine for breaking up toffee and other like materials. No. 1,335,937; Apr. 6; v. 273; p. 41.
Clayton, James, Coventry, assignor to Courtaulds, Limited, London, England. Spindle-bearing. No. 1,363,087; Dec. 21; v. 281; p. 515.
Clayton, Oscar B., and G. T. Oberwetter, Houston, Tex. Water-heating attachment for internal-combustion motors. No. 1,361,017; Dec. 7; v. 281; p. 7.
Clayton, Robert. (See Brenner, William C., assignor.)
Clayton, Robert H., Manchester, J. Huebner, Cheadle Hulme, and H. E. Williams, assignors to The Manchester Oxide Company, Limited, Manchester, England. Manufacture of parchmentized paper, vulcanized fiber, and the like. No. 1,333,465; Mar. 9; v. 272; p. 297.
Clayton, William, Toronto, Ontario, Canada. Bracket-support for roller-blinds. No. 1,351,286; Aug. 31; v. 277; p. 848.
Clayton, William G., Melbourne, Victoria, Australia. Sparking plug. No. 1,340,878; May 25; v. 274; p. 623.
Clayton, William G., Upper Hawthorn, near Melbourne, Victoria, Australia. Fuel-economizing device for internal-combustion engines. No. 1,345,432; July 6; v. 276; p. 21.
Cleal, Joseph P. (See Gibbons, C., and Cleal.)
Clear, Julian P. (See McKechnie, J., and Clear.)
Cleary, Edward, assignor to The Connecticut Web & Buckle Company, Bridgeport, Conn. Two-piece cast-off. No. 1,327,199; Jan. 6; v. 270; p. 60.
Cleary, Richard T., Charleston, W. Va. Sterilizing device for vibrators. No. 1,330,460; Feb. 10; v. 271; p. 240.
Cleary, William F. (See Lydecker, John G., assignor.)
Cleaveland Osborn Manufacturing Company, The. (See Frost, Clinton E., assignor.)
Cleaver, Mary P. (See Offutt, Mary P.)
Cleaver, Montague H., Brooklyn, N. Y. Gasolene-tank gage. No. 1,358,829; Nov. 16; v. 280; p. 425.
Cleereman, Peter J., Kenosha, Wis. Beet-harvester. No. 1,342,795; June 8; v. 275; p. 284.
Clein, Adolph, Chicago, Ill. Combined folding sled and baby-carriage attachment. No. 1,328,715; Jan. 20; v. 270; p. 442.
Clegg, Herbert, Burnley, England. Apparatus for the purpose of providing public amusement and exercise. No. 1,354,021; Sept. 28; v. 278; p. 592.
Clegg, John E. (See Alexander, W., and Clegg.)
Cleghorn, Charles A., Woburn Sands, England, assignor of one-half to The Gayner Pneumatic Company Limited, London, England. Producing working form of Turkish bird-lime. No. 1,356,267; Oct. 19; v. 279; p. 451.
Cleland, Carl D., Jean, Nev. Spark-plug. No. 1,346,003; July 6; v. 276; p. 133.
Clemens Electrical Corporation. (See Clemens, John G., assignor.)
Clemens, John G., assignor to Clemens Electrical Corporation, Buffalo, N. Y. Refillable fuse-plug. No. 1,348,391; Aug. 3; v. 277; p. 51.
Clemens, Samuel. Hennepin, Ill. Cultivator. No. 1,335,725; Apr. 6; v. 273; p. 4.
Clement, Alvah W., assignor to The Cleveland Brass Manufacturing Company, Cleveland, Ohio. Acid-resisting alloy. No. 1,333,706; Mar. 16; v. 272; p. 402.

Digitized by Google

Clements, Arthur L. (See Coldwell, Ernest F., assignor.)
Clements, Benjamin J., Chicago, Ill. Adjustable shoe-heel. No. 1,361,683; Dec. 7; v. 281; p. 141.
Clement, Edward E. (See Sibbald, William H., assignor.)
Clement, Edward E., Washington, D. C., assignor, by mesne assignments, to J. R. Garfield, trustee, Cleveland, Ohio. Telephone-exchange system. No. 1,348,209; Aug. 3; v. 277; p. 15.
Clément, Giulio, Milan, Italy, assignor to Clement Gold Magneto Company. Apparatus for separating or concentrating fine metals from pulverized material. No. 1,345,835; July 6; v. 276; p. 99.
Clement Gold Magneto Company. (See Clément, Giulio, assignor.)
Clement, Lewis M., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Device for varying electrical coupling. No. 1,353,145; Sept. 21; v. 278; p. 375.
Clement, Louis E., Rock Island, Quebec, Canada. Cash-register. No. 1,337,441; Apr. 20; v. 273; p. 463.
Clements Co., The. (See Kennedy, Joseph, assignor.)
Clements, Frank L., Jr., Houston, Tex. Drill-bit. No. 1,332,105; Feb. 24; v. 271; p. 638.
Clements, Nils T., Superior, Wis. Switch-box mounting. No. 1,362,674; Dec. 21; v. 281; p. 435.
Clements, William E., assignor of one-half to A. C. Penner, Oroville, Calif. Electrode-holder. No. 1,353,028; Sept. 14; v. 278; p. 292.
Clemmer, Howard M. (See Kester, James A., assignor.)
Clemmer, Joel G., Philadelphia, Pa. Talking-machine. No. 1,334,736; Mar. 23; v. 272; p. 641.
Clemons, Fay A., Clemons, Iowa. Stock-waterer. No. 1,353,146; Sept. 21; v. 278; p. 375.
Clench, William A. (See Benefiel, Claude, assignor.)
Clendenning, William, Philadelphia, Pa. Tire. No. 1,354,481; Sept. 28; v. 278; p. 676.
Clenny, James E., New York, N. Y., and G. S. Wright, La Grange, assignor to Sefton Manufacturing Corporation, Chicago, Ill. Wrapper for packing electric-light bulbs. No. 1,337,592; Apr. 20; v. 273; p. 492.
Clerc, Henry S., Gretna, La. Sulfur-feed hopper. No. 1,332,106; Feb. 24; v. 271; p. 633.
Clermont, John B., assignor to S and S Window Corporation, New York, N. Y. Attachment for windows and the like. No. 1,338,488; Apr. 27; v. 277; p. 731.
Cleveland-Akron Bag Company, The. (See Rose, Maxwell C., assignor.)
Cleveland, Arthur, Augusta, Ark. Combination umbrella and cane. No. 1,340,375; May 18; v. 274; p. 457.
Cleveland Brass Manufacturing Company, The. (See Clement, Alvah W., assignor.)
Cleveland, Clement, New York, N. Y. Pencil-sharpener. No. 1,327,459; Jan. 6; v. 270; p. 107.
Cleveland, David P., assignor to Universal Paint Remover and Motor Cleaning Company, Dallas, Tex. Automobile-rack. No. 1,330,303; Feb. 10; v. 271; p. 210.
Cleveland, David P., assignor to Universal Paint Remover and Motor Cleaning Company, Dallas, Tex. Heating apparatus. No. 1,349,943; Aug. 17; v. 277; p. 477.
Cleveland, David P., assignor to Universal Paint Remover and Motor Cleaning Company, Dallas, Tex. Removing surface finish. No. 1,355,074; Oct. 5; v. 279; p. 124.
Cleveland, David P., assignor to Universal Paint Remover and Motor Cleaning Company, Dallas, Tex. Nozzle. No. 1,362,228; Dec. 14; v. 281; p. 296.
Cleveland, Edgar L., Othello, Wash. Collapsible tube. No. 1,352,355; Sept. 7; v. 278; p. 123.
Cleveland, Edgar W., Holland, Mich. Journal adjustment for arms of multiple-spindle drills. No. 1,350,004; Aug. 17; v. 277; p. 490.
Cleveland Electric Machine and Manufacturing Company. (See Bilderback, Bart, assignor.) (Reissue.)
Cleveland Folding Machine Company, The. (See Trautman, Walter G., assignor.)
Cleveland, Francis D., Cambridge, assignor, by mesne assignments, to William Underwood Company, Boston, Mass. Apparatus and process for positioning fish. No. 1,362,396; Dec. 14; v. 281; p. 328.
Cleveland Hardware Company, The. (See Kanter, Marcus E., assignor.)
Cleveland Instrument Company, The. (See Beighlee, Henry E., assignor.)
Cleveland, Jim. (See Adams, David W., assignor.)
Cleveland Macaroni Company, The. (See Gammel, Karl, assignor.)
Cleveland Metal Products Company, The. (See Baines, Henry C., assignor.)
Cleveland Metal Products Company, The. (See Chadwick, L. S., and Rehmer, assignors.)
Cleveland Metal Products Company, The. (See Chadwick, L. S., and Whittaker, assignors.)
Cleveland Metal Products Company, The. (See Chadwick, Lee S., assignor.)
Cleveland Metal Products Company, The. (See Harrison, George L., assignor.)
Cleveland Phonograph Company, The. (See Horswell, Percy A., assignor.)
Cleveland Tractor Company. (See Gruber, Edward, assignor.)
Cleveland Tractor Company, The. (See Morgan, M. B., Collins, and Kinney, assignors.)
Cleveland Tractor Company, The. (See Morgan, Mathew B., assignor.)
Cleveland Tractor Company, The. (See Morgan, Nathan B., assignor.)
Cleveland Tractor Company, The. (See Rupprecht, Bert A., assignor.)
Cleveland Tractor Company, The. (See Savage, Edwin H., assignor.)
Cleveland Tractor Company, The. (See Siems, Kurt, assignor.)
Cleveland Tractor Company, The. (See Strait, William, assignor.)
Cleveland Tractor Company, The. (See Weidely, George A., assignor.)
Cleveland Tractor Company, The. (See White, Rollin H., assignor.)
Cleveland Trust Company, The. (See Mooers, Louis P., assignor.)
Cleveland, William H., Wellington, Kans. Rail-anti-creeper tie-plate. No. 1,346,398; July 13; v. 276; p. 272.
Cleveland Worm & Gear Company, The. (See Fitzpatrick, David, assignor.)
Cleveland Welding and Manufacturing Company, The. (See Edwards, William R., assignor.)
Clevenger & Caron. (See Caron, Martinus H., assignor.)
Clevenger, Galen H., Colorado Springs, Colo., and M. H. Caron, Weltevreden, Java, Dutch East Indies, assignors to Research Corporation of New York, N. Y. Treating oxid ores of manganese. No. 1,349,322; Aug. 10; v. 277; p. 284.
Clevenger, Oliver E., Kingsdown, Kans. Stack-mold. No. 1,330,685; Feb. 10; v. 271; p. 281.
Cleworth, Alfred B., Hollinwood, England. Wet filter, water-cooler, humidifying apparatus, and the like. No. 1,345,131; June 29; v. 275; p. 934.
Cleworth, Ernest B., St. Paul, Minn. Heater. No. 1,338,855; May 4; v. 274; p. 38.
Cliff Manufacturing Works. (See Frick, William, assignor.)
Cliffe, Elza T. S., Mansfield, Ohio. Vacuum cleaning apparatus. No. 1,345,478; July 6; v. 276; p. 30.
Cliffe, Eliza T. S., Mansfield, Ohio. Automatic delivery system. No. 1,351,413; Aug. 31; v. 277; p. 874.
Clifford, Fred W., assignor to Victor Apparatus Company, San Francisco, Calif. Blow-torch. No. 1,344,988; June 29; v. 275; p. 907.
Clifford, Frederick J., and L. A. Perry, assignors to Chicago Pottery Company, Chicago, Ill. Closet-bowl. No. 1,342,499; June 8; v. 275; p. 226.
Clifford, Harlon A., assignor of one-half to J. W. Cobb, Greenfield, Mass. Disinfecting apparatus. No. 1,354,244; Sept. 28; v. 278; p. 638.
Clifford, Roger W., and P. J. Nichols, Schenectady, N. Y. Throttle-valve. No. 1,338,489; Apr. 27; v. 273; p. 782.
Clifford, Ward I., Malden, Mass. Washbasin for motor-propelled vehicles. No. 1,342,843; June 8; v. 275; p. 294.
Clifford, William Oxley, Wolverhampton, assignor to Jones & Attwood, Limited, Amblecote, Stafford, England. Separation and settlement of solids and matters from sewage and other liquids. No. 1,343,764; June 15; v. 275; p. 539.
Clifford, William E., Memphis, Tenn. Separating wood-tars and pyroligneous acid. No. 1,339,022; May 4; v. 274; p. 69.
Clifford, William E., Salt Lake City, Utah, and T. H. Green, Springfield, Ill., assignors to United Filters Corporation, New York, N. Y. Sulfur-retort. No. 1,332,542; Mar. 2; v. 272; p. 71.
Clifford, William P., Barnard, N. Y., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Folding and tape-applying machine. No. 1,338,000; Apr. 27; v. 273; p. 639.
Clift, Albert E., Chicago, Ill. Signal-lamp. No. 1,332,607; Mar. 2; v. 272; p. 83.
Clift, John J. (See Payne, Charles H., assignor.)
Clifton, David R., South Broken Hill, New South Wales, Australia. Means for suspending and vertically adjusting spring-rollers and their attached window-blinds. No. 1,333,010; Mar. 9; v. 272; p. 211.
Clifton, George. (See Clifton, Harry W. and G.)
Clifton, Harry W. and G., Salina, Kans. Game-trap. No. 1,355,034; Oct. 5; v. 279; p. 116.
Clifton, John B., Philadelphia, Pa. Shoe heel and attachment therefor. No. 1,363,643; Dec. 28; v. 281; p. 662.
Clifton, Ray H., East Peru, assignor to Universal Manufacturing Company, Des Moines, Iowa. Timing device. No. 1,356,968; Oct. 26; v. 279; p. 634.
Clifton, Ray H., East Peru, assignor to Universal Manufacturing Company, Des Moines, Iowa. Aerial toy. No. 1,356,969; Oct. 26; v. 279; p. 634.
Clifton, Ray H., State Center, Iowa, assignor to Universal Manufacturing Company, Des Moines, Iowa. Ignition-detector. No. 1,358,707; Nov. 16; v. 280; p. 400.
Clifton, William, Elgin, Nebr. Window-pane fastener. No. 1,356,855; Oct. 26; v. 279; p. 613.
Climax Molybdenum Company. (See Cutter, John D., assignor.)
Climax Rubber Company, The. (See Warth, Nathaniel G., assignor.)

Digitized by Google

Alphabetical list of patentees—Continued.

Climes, Delia A., San Diego, Calif. Water-bag. No. 1,342,252; June 1; v. 275; p. 126.
Climie, William, Ayr, Scotland. Gas-producer. No. 1,327,861; Jan. 13; v. 270; p. 245.
Cline, Charles E., Abingdon, Ill. Animal-restraining device. No. 1,327,374; Jan. 6; v. 270; p. 92.
Cline, Frank E., Trenton, Mo. Valve adjuster and silencer. No. 1,333,160; Mar. 9; v. 272; p. 238.
Cline, R. E., *et al.* (See Harmon, Charles E., assignor.)
Clinton, Charles E. (See Starkie, J. W., and Clinton.)
Clinton, E. J. (See Pyle, George S., assignor.)
Clinton Refrigerating Company. (See Wishart, John O. and W., assignors.)
Clipfell, Carroll D., and G. Manikowske, assignors to Wind Electric Corporation, Wyndmere, N. D. Windmill. No. 1,334,485; Mar. 23; v. 272; p. 594.
Clipfell, Carroll D., and G. Manikowske, Wyndmere, N. D. Swing. No. 1,335,938; Apr. 6; v. 273; p. 44.
Clipper Belt Lacer Company. (See Diamond, James K., assignor.)
Clipsham, Kenneth M., and M. B. Jackson, Jr., assignors to Arnold Machine Co., Toronto, Ontario, Canada. Machine for cutting moving material into lengths. No. 1,347,618; July 27; v. 276; p. 629.
Clish, Joseph, Iron Mountain, Mich. Automobile-radiator. No. 1,341,784; June 1; v. 275; p. 34.
Clogston, Melvin, assignor of one-half to J. Soeders, Terre Haute, Ind. Lifting device or grapple. No. 1,344,174; June 22; v. 275; p. 683.
Clopton, William H., Washington, D. C. Screw-lock. No. 1,350,139; Aug. 17; v. 277; p. 516.
Clopton, William H., Jr., U. S. Army. Collar-supporter. No. 1,344,580; June 22; v. 275; p. 764.
Clore, Roy, assignor to Swartz Electric Company, Indianapolis, Ind. Electric switch. No. 1,335,558; Mar. 30; v. 272; p. 856.
Close, Leonard L., assignor to Marion Foundry Corporation, Marion, Ind. Means for locking grate-bars. No. 1,327,270; Jan. 6; v. 270; p. 73.
Close, Leonard L., assignor to Marion Foundry Corporation, Marion, Ind. Grate-bar. No. 1,338,070; Apr. 27; v. 273; p. 653.
Close, William F., Waterloo, Iowa. Holder for liquid-containers. No. 1,339,163; May 4; v. 274; p. 95.
Closs, Jacob, St. Ansgar, Iowa. Combined air regulator and deflector. No. 1,341,494. May 25; v. 274; p. 742.
Closser, Leonard J., Detroit, Mich. Furnace. No. 1,362,473; Dec. 14; v. 281; p. 343.
Clothier, Henry W., assignor to A. Reyrolle and Company, Limited, Hebburn-on-the-Tyne, Durham, England. Electric-switch gear. No. 1,357,846; Nov. 2; v. 280; p. 123.
Clothier, Henry W. Wallsend, assignor to A. Reyrolle & Company, Limited, Hebburn-on-the-Tyne, England, Electric-switch gear. No. 1,357,847; Nov. 2; v. 280; p. 123.
Cloud, Oscar E., Wichita, Kans. Ventilator. No. 1,346,633; July 13; v. 276; p. 319.
Cloud, William H., Seattle, Wash. Change-dispenser. No. 1,360,367; Nov. 30; v. 280; p. 838.
Clough, Alfred N., assignor to Three Leaf Cot Manufacturing Company, San Jose, Calif. Cot-canopy. No. 1,335,559; Mar. 30; v. 272; p. 857.
Clough, Alfred N., assignor to Three Leaf Cot Manufacturing Company, Sunnyvale, Calif. Table-top. No. 1,336,818; Apr. 13; v. 273; p. 371.
Clough, Alfred N., assignor to Three Leaf Cot Manufacturing Co., Sunnyvale, Calif. Spring. No. 1,338,490; Apr. 27; v. 273; p. 732.
Clough, Alfred N., assignor to Three Leaf Cot Manufacturing Company, Sunnyvale, Calif. Collapsible furniture. No. 1,341,225; May 25; v. 274; p. 690.
Clough, John H. (See Green, C. E., and Clough.)
Clough, William R., Alton, N. H. Pocket implement. No. 1,339,164; May 4; v. 274; p. 95.
Clouse, William L., assignor to The National Machinery Co., Tiffin, Ohio. Gage for heading and forging machines. No. 1,328,128; Jan. 13; v. 270; p. 295.
Clouston, Thomas, Vancouver, British Columbia, Canada. Gas-generator and combustion-chamber for pulverized fuel. No. 1,344,333; June 22; v. 275; p. 715.
Clouston, Thomas, Vancouver, British Columbia, Canada. Gas-producer. No. 1,362,559; Dec. 14; v. 281; p. 360.
Clover Electric Corporation. (See Clover, Howard K., assignor.)
Clover, Howard K., assignor to Clover Electric Corporation, Los Angeles, Calif. Electric faucet. No. 1,345,748; July 6; v. 276; p. 82.
Clow, James B., & Sons. (See Rice, Frank L., assignor.)
Cloward, Hyrum W., Moroni, Utah. Riding-harrow. No. 1,329,580; Feb. 3; v. 271; p. 45.
Clowes, George, Macclesfield, England. Portable steps for use in rigging aeroplanes. No. 1,361,828; Dec. 14; v. 281; p. 216.
Clucker, Albert S., New York, N. Y. Vehicle-bumper. No. 1,349,117; Aug. 10; v. 277; p. 243.
Cluff, William, Company. (See Youngberg, James, assignor.)
Clulee, Stephen J., Attleboro, Mass., assignor to Bay State Optical Company. Ophthalmic mounting. No. 1,362,577; Dec. 14; v. 281; p. 363.
Cluley, John P., Chicago, Ill., assignor to Cluley Multiplier Company, Green Bay, Wis. Computing-machine. No. 1,332,543; Mar. 2; v. 272; p. 71.
Cluley Multiplier Company. (See Cluley, John P., assignor.)
Clum, Ira E., Lima, assignor of one-half to The Martin Steel Products Co., Mansfield, Ohio. Metal fencepost. No. 1,356,970; Oct. 26; v. 279; p. 635.
Clutts, Joseph C., Fort Thomas, Ky. Portable electric heater. No. 1,358,059; Nov. 9; v. 280; p. 226.
Cluxton, James R., Youngstown, Ohio. Toothbrush-holder. No. 1,356,487; Oct. 19; v. 279; p. 493.
Clyneke, Dezere, Boulder, Colo. Wire-stretcher. No. 1,334,990; Mar. 30; v. 272; p. 751.
Cnare, Frank, Madison, Wis. Plotting device for civil engineers. No. 1,356,971; Oct. 26; v. 279; p. 635.
Coale, George O. G., trustee. (See Arno, Oliver H., assignor.)
Coanda, Henri, Paris, France. Aerial transporter. No. 1,344,677; June 29; v. 275; p. 848.
Coar, Enos E., South Bend, Ind. Roof connection for vent-pipes. No. 1,352,248; Sept. 7; v. 278; p. 103.
Coast, John W., Jr., Tulsa, Okla., assignor to The Process Company. Treating hydrocarbons. No. 1,333,964; Mar. 16; v. 272; p. 450.
Coast, John W., Jr., Tulsa, Okla., assignor to The Process Company. Cracking hydrocarbons. No. 1,345,132; June 29; v. 275; p. 934.
Coast, John W., Jr., Tulsa, Okla., assignor to The Process Company. Apparatus for cracking hydrocarbons. No. 1,345,133; June 29; v. 275; p. 935.
Coast, John W., Jr., assignor to The Process Company, Tulsa, Okla. Apparatus for distilling hydrocarbons. No. 1,345,134; June 29; v. 275; p. 935.
Coast, John W., Jr., Tulsa, Okla., assignor to The Process Company. Apparatus for cracking hydrocarbons. No. 1,348,264; Aug. 3; v. 277; p. 27.
Coast, John W., Jr., Tulsa, Okla., assignor to The Process Company. Cracking hydrocarbons. No. 1,348,265; Aug. 3; v. 277; p. 27.
Coast, John W., Jr., Tulsa, Okla., assignor to The Process Company. Cracking hydrocarbons. No. 1,348,266; Aug. 3; v. 277; p. 27.
Coast, John W., Jr., Tulsa, Okla., assignor to The Process Company. Cracking hydrocarbons. No. 1,348,267; Aug. 3; v. 277; p. 27.
Coast, John W., Jr., Tulsa, Okla., assignor to The Process Company. Apparatus for cracking hydrocarbons. No. 1,348,268; Aug. 3; v. 277; p. 28.
Coast, John W., Jr., assignor to The Process Company, Tulsa, Okla. Apparatus for cracking hydrocarbons. No. 1,349,815; Aug. 17; v. 277; p. 453.
Coast, John W., Jr., assignor to The Process Company, Tulsa, Okla. Cracking hydrocarbons. No. 1,349,816; Aug. 17; v. 277; p. 453.
Coast, John W., Jr., assignor to The Process Company, Tulsa, Okla. Apparatus for cracking hydrocarbons. No. 1,349,817; Aug. 17; v. 277; p. 454.
Coast, John W., Jr., assignor to The Process Company, Tulsa, Okla. Apparatus for cracking hydrocarbons. No. 1,353,318; Sept. 21; v. 278; p. 408.
Coast, John W., Jr., assignor to The Process Company, Tulsa, Okla. Apparatus for treating hydrocarbons. No. 1,355,311; Oct. 12; v. 279; p. 224.
Coast, John W., Jr., assignor to The Process Company, Tulsa, Okla. Cracking hydrocarbons. No. 1,355,312; Oct. 12; v. 279; p. 224.
Coatalen, Louis, and H. C. M. Stevens, Wolverhampton, England. Thrust-bearing. No. 1,328,716; Jan. 20; v. 270; p. 442.
Coatalen, Louis, and H. C. M. Stevens, assignors of one-half to Sunbeam Motor Car Company, Limited, Wolverhampton, England. Crank-shaft for fluid-pressure engines. No. 1,363,571; Dec. 28; v. 281; p. 649.
Coate, William V., Celina, Ohio. Damper. No. 1,341,881; June 1; v. 275; p. 52.
Coates, Frank E., San Francisco, assignor of one-sixth to C. E. Beugler and one-sixth to C. H. Boardman, Oakland, Calif. Hoisting-block. No. 1,328,717; Jan. 20; v. 270; p. 442.
Coates, George H., Worcester, Mass. Flexible shafting. No. 1,328,983; Jan. 27; v. 270; p. 522.
Coates, Harry E., Sacramento, Calif. Toy fort. No. 1,348,086; July 27; v. 276; p. 723.
Coates, Herbert, Leeds, England. Mold for cement blocks, &c. No. 1,332,246; Mar. 2; v. 272; p. 13.
Coates, John U., Exeter, England. Fire-balloon for searchlight practice and other purposes. No. 1,332,107; Feb. 24; v. 271; p. 638.
Coates, Ray G., Pasadena, Calif., assignor to Valley Mould and Iron Corporation, New York, N. Y. Casting steel ingots. No. 1,327,987; Jan. 13; v. 270; p. 268.
Coates, Ray G., Pasadena, Calif., assignor to Valley Mould and Iron Corporation, Sharpsville, Pa. Method and apparatus for cooling ingot-molds. No. 1,345,749; July 6; v. 276; p. 82.
Coates, Ray G., Pasadena, Calif., assignor to Valley Mould and Iron Corporation, Sharpsville, Pa. Collapsible core-bar. No. 1,348,982; Aug. 10; v. 277; p. 217.
Coatney, Stephen J., Fellows, Calif. Plow. No. 1,333,203; Mar. 9; v. 272; p. 246.
Coats, Arizonia Z. (See Hagdin, J. H., Coats, and Miller.)
Coats, Charles E., assignor to Coats Machine Tool Company, Inc., New York, N. Y. Gage. No. 1,347,207; July 20; v. 276; p. 491.
Coats, Fred R., and J. F. Hartwell, Springfield, Ill. Watch. No. 1,333,161; Mar. 9; v. 272; p. 239.

Digitized by Google

Coats, G. A., Machine Company. (See Blackman, Walter W., assignor.)
Coats Machine Tool Company. (See Coats, Charles E., assignor.)
Coats, William B., Faribault, Minn. Tire-casing vulcanizer and rebuilder. No. 1,333,062; Mar. 9; v. 272; p. 221.
Coatsworth, Frank E. (See Wotherspoon and Coatsworth.)
Coatsworth, Louis, Chicago, Ill., assignor to Safety Projector & Film Co., Portland, Me. Film-gate for motion-picture machines. No. 1,348,626; Aug. 3; v. 277; p. 96.
Cobacker, Mose, Des Moines, Iowa. Automatically-adjustable cuff-link. No. 1,358,291; Nov. 9; v. 280; p. 271.
Cobb, Alfred L., Estes Park, Colo. Truss. No. 1,328,944; Jan. 27; v. 270; p. 515.
Cobb, Arthur, assignor of one-half to F. B. Houghton, Cleveland, Ohio. Bookbinding. No. 1,336,198; Apr. 6; v. 273; p. 93.
Cobb, C. C. (See Gardner, John A., assignor.)
Cobb, Charles H. (See Taylor, Hubert P., assignor.)
Cobb, Charles H., Great Falls, Mont. Railway signal-lamp. No. 1,350,357; Aug. 24; v. 277; p. 604.
Cobb, Edward R., Minneapolis, Minn. Combined truck-body and rack. No. 1,360,889; Nov. 30; v. 280; p. 941.
Cobb, Edward S., Whittier, Calif. Preventing frost or heat injury in orchards, &c. No. 1,357,314; Nov. 2; v. 280; p. 22.
Cobb, Ernest B., assignor to Standard Oil Company, Jersey City, N. J. Desulfurizing petroleum-oils. No. 1,357,224; Nov. 2; v. 280; p. 5.
Cobb, Ernest B., assignor to Standard Oil Company, Jersey City, N. J. Desulfurizing petroleum-oils. No. 1,357,225; Nov. 2; v. 280; p. 5.
Cobb, Harry E., Springfield, Ill. Ensilage-packer. No. 1,353,724; Sept. 21; v. 278; p. 489.
Cobb, Henry Z., assignor to The Mechanical Rubber Company, New York, N. Y. Process and apparatus for producing a hollow rubber biscuit. No. 1,349,560; Aug. 17; v. 277; p. 404.
Cobb, James W. (See Clifford, Harlon A., assignor.)
Cobb, Julia L., executrix. (See Cobb, Leander B.)
Cobb, Leander B., deceased, Julia L. Cobb, executrix, Portland, Me., assignor of one-half to W. B. Cobb, Cleveland, Ohio. Shaft-alining device. No. 1,339,919; May 11; v. 274; p. 313.
Cobb, Schuyler C. (See Frazier, George E., assignor.)
Cobb, Vernon A., Charleston, W. Va. Spike-puller. No. 1,329,458; Feb. 3; v. 271; p. 22.
Cobb, William B. (See Cobb, Leander B., assignor.)
Cobb, Windsor N., San Francisco, Calif. Crap-dice frame. No. 1,363,567; Dec. 28; v. 281; p. 648.
Cobe, Burton M., New York, N. Y. Thawing means for radiators. No. 1,360,178; Nov. 23; v. 280; p. 734.
Coberly, Clarence J., Los Angeles, Calif., assignor to California Burdett Oxygen Company. Oxyhydrogen cutting-torch. No. 1,340,699; May 18; v. 274; p. 518.
Coberly, William B. (See Vail, N. R., and Coberly.)
Coble, Lucien G., Greensboro, N. C. Dental articulator. No. 1,362,602; Dec. 21; v. 281; p. 420.
Coblentz, Virgil, and H. W. Walker, assignors to Commercial Research Company, New York, N. Y. Side-chain oxidation. No. 1,332,028; Feb. 24; v. 271; p. 624.
Coblentz, William W., Washington, D. C. Radiophone. No. 1,345,586; July 6; v. 276; p. 51.
Coburn, George N., Boston, Mass. Screw-driver. No. 1,360,368; Nov. 30; v. 280; p. 838.
Coburn, Pressly J., Wellsville, Ohio. Amusement device. No. 1,346,634; July 13; v. 276; p. 320.
Coburn, Samuel, Birmingham, Ala. Sand-blast tumbler. No. 1,343,350; June 15; v. 275; p. 457.
Cobwell Corporation. (See Wells, Raymond, assignor.)
Cochennet, John L., Chicago, Ill. Aeroplane. No. 1,328,421; Jan. 20; v. 270; p. 387.
Cochet, Laurent. (See Camell, R. Cochet, and Gritte.)
Coching, Gregorio C., Manila, Philippine Islands. Combined eye-shade and reflector. No. 1,353,630; Sept. 21; v. 278; p. 471.
Cochran, Carl T., Houston, Tex. Signal. No. 1,347,011; July 20; v. 276; p. 453.
Cochran, Clyde E. (See Towson, M. S., and Cochran.)
Cochran, John J., assignor, to Martin-Lumaghi Manufacturing Company, St. Louis, Mo. Means for supplying explosive mixtures to engines. No. 1,353,454; Sept. 21; v. 278; p. 434.
Cochran, Smith H., Chicago, Ill. Dish-washing machine. No. 1,339,810; May 11; v. 274; p. 293.
Cochran, Willard F., Blue Ridge, Ga. Plow. No. 1,346,701; July 13; v. 276; p. 333.
Cochrane, Frederick L., Minneapolis, Minn., assignor to Crank Case Evaporator Company. Crank-case evaporator. No. 1,351,716; Aug. 31; v. 277; p. 932.
Cochrane, H. S. B. W. Corporation. (See Wallem, Axel B., assignor.)
Cochrane, Harry P., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Loading apparatus. No. 1,363,088; Dec. 21; v. 281; p. 515.
Cochrane, James. (See Stearns, Henry A., Jr., assignor.)
Cochrane, Thomas H., Jersey City, N. J. Locomotive-crane sander. No. 1,340,016; May 11; v. 274; p. 331.
Cockburn, David, and D. MacNicoll, Cardonald, near Glasgow, Scotland, assignors to J. L. Taylor and A. E. Taylor, Liverpool, England. Engine and like governor. No. 1,331,416; Feb. 17; v. 271; p. 487.
Cockburn, David, and D. MacNicoll, assignors to Cockburns Limited, Cardonald, near Glasgow, Scotland. Safety-valve. No. 1,332,886; Mar. 9; v. 272; p. 187.
Cockburn, David, and D. MacNicoll, Cardonald, near Glasgow, Scotland. Engine stop-gear. No. 1,346,590; July 13; v. 276; p. 311.
Cockburn, David, and D. MacNicoll, Cardonald, near Glasgow, Scotland. Governing and emergency mechanism. No. 1,347,208; July 20; v. 276; p. 491.
Cockburns Limited. (See Cockburn, D., and MacNicoll, assignors.)
Cocker, Frederick, Derby, Conn., assignor to Robert N. Bassett Company, Incorporated, Shelton, Conn. Buckle. No. 1,328,617; Jan. 20; v. 270; p. 424.
Cockroft, Irving R., Alameda, Calif. Pump. No. 1,351,505; Aug. 31; v. 277; p. 891.
Cocks, George H., Adrian, Mich. Combination drill-press table and vise. No. 1,341,841; June 1; v. 275; p. 45.
Cocks, James R. (See Scism, Arthur G., assignor.)
Cocks, John H., Morenci, Ariz. Support for hammer-machine drills. No. 1,349,047; Aug. 10; v. 277; p. 280.
Cocksedge, Herbert E. (See Freeth, F. A., and Cocksedge.)
Coddington, Charles C. (See Fite, C. V., and Coddington.)
Coder, Elmer S., Philadelphia, Pa. Solo-playing automatic piano and the like. No. 1,363,839; Dec. 28; v. 281; p. 701.
Codos, Jacob, and B. May, New York, N. Y. Door-lock. No. 1,336,617; Apr. 13; v. 273; p. 232.
Cody, Arthur P., Cleveland, Ohio. Bathroom-fixture. No. 1,361,829; Dec. 14; v. 281; p. 217.
Cody, Harold B., Palm Springs, Calif. Pneumatic-tire-filling device. No. 1,350,068; Aug. 17; v. 277; p. 502.
Cody, Sherwin, Chicago, Ill. Loose-leaf cover and copy-holder. No. 1,328,318; Jan. 20; v. 270; p. 368.
Coe, Charles T., Kearney, N. J., assignor, by mesne assignments, to Diamond Power Specialty Company, Detroit, Mich. Tube-cleaner. No. 1,348,542; Aug. 3; v. 277; p. 80.
Coe, James R., assignor to The American Brass Company, Waterbury, Conn. Means for scalping or overhauling metal. No. 1,328,034; Jan. 13; v. 270; p. 277.
Coe, James R., assignor to The American Brass Company, Waterbury, Conn. Apparatus for lifting and pouring liquids. No. 1,362,560; Dec. 14; v. 281; p. 361.
Coe, W. H., Manufacturing Company. (See Moscini, John, assignor.)
Coen, Garnet W., San Francisco, Calif. Heater. No. 1,344,381; June 22; v. 275; p. 724.
Coes, Harold V. (See Rhodes, G. I., and Coes.)
Coes, Russell R., assignor of one-half to Coes Wrench Company, Worcester Mass. Wrench-handle. No. 1,357,848; Nov. 2; v. 280; p. 124.
Coes Wrench Company. (See Coes, Russell R., assignor.)
Coffee, Waln W., Atlanta, Ga. Attachment for platen-presses. No. 1,355,753; Oct. 12; v. 279; p. 309.
Coffeen, Francis E., Tacoma, Wash. Train-order hoop. No. 1,363,494; Dec. 28; v. 281; p. 634.
Coffeen, Lewis A. (See Nelson, C., and Coffeen.)
Coffelder, Thomas N., Cincinnati, Ohio, assignor, by mesne assignments, to Liberty Radiator Company, Pittsburgh, Pa. Radiator. No. 1,336,999; Apr. 13; v. 273; p. 805.
Coffelder, Thomas N., Cincinnati, Ohio, assignor, by mesne assignments, to Liberty Radiator Company, Pittsburgh, Pa. Machine for assembling radiator-cores. No. 1,339,434; May 11; v. 274; p. 221.
Coffelt, George F., Corbin, Kans. Airship. No. 1,344,486; June 22; v. 275; p. 746.
Coffelt, Oscar T., Chicago, Ill. Recovery of titanium from its ores. No. 1,357,690; Nov. 2; v. 280; p. 92.
Coffey, Jacob E., Casey, Ill. Automobile-lifter. No. 1,351,506; Aug. 31; v. 277; p. 892.
Coffey, Joseph H., and J. H., Jr., Toronto, Ontario, Canada. Forming tubular cord fabrics. No. 1,339,103; May 4; v. 274; p. 85.
Coffey, Joseph H., Jr. (See Coffey, J. H. and J. H., Jr.)
Coffield, James L., Dayton, Ohio. Means for draining the oscillating cylinders of washing-machines. No. 1,338,172; Apr. 27; v. 278; p. 672.
Coffin, Everett M., Piedmont, Calif. Safety switch-box. No. 1,361,684; Dec. 7; v. 281; p. 142.
Coffin, Grange S., New York, N. Y. Valve. No. 1,341,544; May 25; v. 274; p. 751.
Coffman, Benjamin F., Decatur, Ill. Internal-combustion engine. No. 1,354,535; Oct. 5; v. 279; p. 18.
Coffman, Edward S., Clifton Forge, Va., assignor to F. E. Stebbins, Washington, D. C. Combined contractile spring and retarding device. No. 1,333,835; Mar. 16; v. 272; p. 426.
Coffman, Edward S., Clifton Forge, Va., assignor to F. E. Stebbins, Washington, D. C. Door-controlling device. No. 1,334,081; Mar. 16; v. 272; p. 473.
Coffman, Edward S., Clifton Forge, Va., assignor to F. E. Stebbins, Washington, D. C. Door-controlling device. No. 1,353,218; Sept. 21; v. 278; p. 389.
Coffman, Harvey G., *et al.* (See Burnett, Charley, assignor.)
Coffman, Jacob H., Westmont, N. J. Coupling-clamp. No. 1,330,737; Feb. 10; v. 271; p. 291.

Digitized by Google

Alphabetical list of patentees—Continued.

Coffman, Joseph H., Americus, Ga. Automobile-cowl attachment. No. 1,349,715; Aug. 17; v. 277; p. 435.
Coffman, Lewis C., *et al.* (See Burnett, Charley, assignor.)
Coffman, Ray, Mauertown, Va. Fender-pulverizer for plows. No. 1,330,686; Feb. 10; v. 271; p. 282.
Coffman, Samuel M., assignor to The Barbers Electric Specialty Company, Kansas City, Mo. Electric hair-drying device. No. 1,352,876; Sept. 14; v. 278; p. 263.
Coffman, Samuel M., assignor to The Barbers Electric Specialty Company, Kansas City, Mo. Automatic hair-cutting machine. No. 1,359,031; Nov. 16; v. 280; p. 463.
Cogburn, Robert H., McKinney, Tex. Cotton-chopper. No. 1,349,266; Aug. 10; v. 277; p. 273.
Cogger, William B., Chicago, Ill., assignor to F. S. Baskin, Cleveland Heights, Ohio. Table attachment for seats. No. 1,363,759; Dec. 28; v. 281; p. 685.
Cogliolo, Tomaso S., assignor to Società Esercizio Bacini, Industriais, Genoa, Italy. Marine propeller. No. 1,352,877; Sept. 14; v. 278; p. 263.
Cogswell, George R. (See Phillips, Fred V., assignor.)
Cogswell, Seward E., Central City, Nebr. Automatic sampler. No. 1,329,110; Jan. 27; v. 270; p. 546.
Cohan, Charles. (See Herschede, W. J., and Cohan.)
Cohen, Bertram S., Twickenham, England, assignor to The Relay Automatic Telephone Company, Limited, London, England. Telephone-transmitter. No. 1,356,190; Oct. 19; v. 279; p. 436.
Cohen, Ellis C., Willimantic, Conn. Game. No. 1,341,360; May 25; v. 274; p. 716.
Cohen, Henry S. (See Rogers, John A., assignor.)
Cohen, Herbert, New York, N. Y. Apparatus for discharging static electricity from paper and the like. No. 1,338,071; Apr. 27; v. 273; p. 653.
Cohen, Isaac, Schenectady, N. Y. Shovel or spade plow. No. 1,328,913; Jan. 27; v. 270; p. 509.
Cohen, Louis, Johnstown, N. Y. Auto-bumper. No. 1,351,837; Sept. 7; v. 278; p. 25.
Cohen, Louis, Johnstown, N. Y. Combination-lock. No. 1,355,387; Oct. 12; v. 279; p. 238.
Cohen, Louis, Johnstown, N. Y. Auto-bumper. No. 1,360,369; Nov. 30; v. 280; p. 838.
Cohen, Max, Revere, Mass. Article-stand. No. 1,327,943; Jan. 13; v. 270; p. 260.
Cohen, Samuel, and A. R. Foerster, New York, N. Y. Button device. No. 1,353,725; Sept. 21; v. 278; p. 490.
Cohen, Samuel, and A. R. Foerster, New York, N. Y. Button device. No. 1,356,006; Oct. 26; v. 279; p. 622.
Cohen, Thomas. (See Smock, Howard A., assignor.)
Cohen, William, Bayonne, N. J., assignor to A. Balinky, New York, N. Y. Hand embroidery-machine. No. 1,362,984; Dec. 21; v. 281; p. 494.
Cohn, Albert. (See Debs, Louis H., assignor.)
Cohn, Alexander, New York, N. Y. Friction-drive for sewing-machines. No. 1,359,153; Nov. 16; v. 280; p. 485.
Cohn Goldwater Co. (See Hirsh, Milton A., assignor.)
Cohn, Harry, Albany, N. Y. Duplicating-machine. No. 1,342,530; June 8; v. 275; p. 232.
Cohn, Herman, New York, N. Y. String fastener and adjuster for musical-instrument strings. No. 1,331,863; Feb. 24; v. 271; p. 593.
Cohn, Johanna, New York, N. Y. Musical-notation indicator. No. 1,328,718; Jan. 20; v. 270; p. 442.
Cohn, Max J., Chicago, Ill. Locking device for engine-starting cranks. No. 1,351,095; Aug. 31; v. 277; p. 810.
Cohn, Max M. (See Wennerblad, Einar G., assignor.)
Cohoe, Wallace P. (See Pease, H. D., and Cohoe.)
Cohon, Benjamin J., Westwood, and L. Moskowitz, Bayonne, N. J. Lock. No. 1,351,838; Sept. 7; v. 278; p. 25.
Cohon, Benjamin J., Westwood, assignor of one-half to L. Moskowitz, Bayonne, N. J. Latching device. No. 1,339,320; May 4; v. 274; p. 123.
Coil, Grover C. (See Sibley, H. J., and Coil.)
Coil, W. D. (See Hanger, Courtney C., assignor.)
Coiner, B. W. (See Barnes, Charles W., assignor.)
Coke Stoker Corporation. (See Kohout, George A., assignor.)
Coke-Hill, Lionel, Montreal, Quebec, Canada. Concrete vessel. No. 1,338,815; May 4; v. 274; p. 31.
Coker, Alvin, Franklin, Tex. Grass-destroyer. No. 1,332,321; Mar. 2; v. 272; p. 27.
Coker, James R., assignor to S. I. Coker, Knoxville, Tenn. Selective signaling and train-stop system. No. 1,336,889; Apr. 13; v. 273; p. 285.
Coker, S. I. (See Coker, James R., assignor.)
Colbert, Clarence F., Milwaukee, Wis., assignor to Dixie Fruit Products Corporation, New York, N. Y. Coring-machine. No. 1,327,083; Jan. 6; v. 270; p. 39.
Colbert, George F., Wilkinsburg, and W. H. Colbert, Pittsburgh, Pa. Toy. No. 1,334,016; Mar. 16; v. 272; p. 461.
Colbert, James A., Delphos, Ohio. Hone-holder. No. 1,340,751; May 18; v. 274; p. 528.
Colbert, William H. (See Colbert, George F. and W. H.)
Colburn, Irving W., Toledo, Ohio, assignor, by mesne assignments, to The Libbey-Owens Sheet Glass Company. Glass drawing and cutting mechanism. No. 1,341,262; May 25; v. 274; p. 697.
Colburn, Irving W., deceased, by The Libbey-Owens Sheet Glass Company, Toledo, Ohio, assignee. Method of and apparatus for drawing sheet-glass. (Reissue.) No. 14,794; Jan. 27; v. 270; p. 590.
Colburn, Machine Tool Company. (See Clarke, Franklin F., assignor.)
Colburn Machine Tool Company. (See Head, Ernest C., assignor.)
Colburn, Temple H., Minneapolis, Minn. Soap-cake retainer. No. 1,350,784; Aug. 24; v. 277; p. 688.
Colburn, Webster, assignor to Dorris Motor Co., St. Louis, Mo. Automobile. No. 1,333,246; Mar. 9; v. 272; p. 255.
Colburn, William O., Abington, Mass. Heel. No. 1,362,229; Dec. 14; v. 281; p. 297.
Colby, Charles F., Los Angeles, Calif. Shoe-buckle holder. No. 1,333,466; Mar. 9; v. 272; p. 297.
Colby, Frank H., Haverhill, Mass. Sash-fastener. No. 1,334,787; Mar. 23; v. 272; p. 642.
Colby, Ora A., Larimer, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric furnace for heating ribbons and bars. No. 1,347,895; July 27; v. 276; p. 685.
Colby, Ora A., Larimer, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system for electric furnaces. No. 1,349,303; Aug. 10; v. 277; p. 292.
Colby, Ora A., Larimer, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electric-heating apparatus. No. 1,332,029; Feb. 24; v. 271; p. 624.
Colby, Ora A., Larimer, Pa., assignor to Westinghouse Electric and Manufacturing Company. Trolley system. No. 1,333,607; Mar. 16; v. 272; p. 383.
Colby, Ora A., Larimer, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electric heating apparatus. No. 1,335,483; Mar. 30; v. 272; p. 842.
Colby, Ora A., Larimer, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric singeing-furnace. No. 1,338,359; Apr. 27; v. 273; p. 707.
Colby, Ora A., Larimer, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,361,966; Dec. 14; v. 281; p. 244.
Colby, Ora A., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Double-hot-chamber furnace. No. 1,347,896; July 27; v. 276; p. 685.
Colby, Ora A., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Induction solder-pot heater. No. 1,352,430; Sept. 14; v. 278; p. 173.
Cold Light Manufacturing Company, The. (See Erdle, Reiner W., assignor.)
Cold Light Manufacturing Company, Inc., The. (See Schlesinger, William A., assignor.)
Cold Light Manufacturing Company, The. (See Thorne, Victor C., assignor.)
Coldwell, Ernest F., Lachine, Quebec, Canada, assignor to A. L. Clements, Toronto, Ontario, Canada. Ore-separator. No. 1,363,760; Dec. 28; v. 281; p. 685.
Coldwell, Harry T., Chicago, Ill., assignor of one-half to G. A. Sanford, Morristown, N. J. Lawn-mower. No. 1,354,169; Sept. 28; v. 278; p. 622.
Cole, Albert L., Auburndale, Mass. Fire-extinguisher. No. 1,340,376; May 18; v. 274; p. 457.
Cole, Arthur D., Minneapolis, Minn. Tractor. No. 1,336,890; Apr. 13; v. 273; p. 285.
Cole, Clara H., executrix. (See Cole, Clarence L.)
Cole, Clarence L., deceased, U. S. Army; C. H. Cole, executrix. Dyeing and preserving fabrics. No. 1,361,139; Dec. 7; v. 281; p. 31.
Cole, Clifford M., Dayton, Ohio, and W. S. Adams, Chicago, Ill. Fluid-gage. No. 1,355,939; Oct. 19; v. 279; p. 385.
Cole, David, Tucson, Ariz. Bucket elevator. No. 1,332,426; Mar. 2; v. 272; p. 48.
Cole, David, El Paso, Tex., assignor to Minerals Separation North American Corporation, New York, N. Y. Apparatus for separating or concentrating ores. No. 1,351,096; Aug. 31; v. 277; p. 810.
Cole, Don. (See Ericson, John, assignor.)
Cole, Edward P., Chicago, Ill. Coal and gas range. No. 1,344,755; June 29; v. 275; p. 863.
Cole, Edward P., Chicago, Ill. Casing for metal thermometers and the like. No. 1,348,210; Aug. 3; v. 277; p. 15.
Cole, Edward P., Chicago, Ill. Hinge for oven-doors and the like. No. 1,335,044; Mar. 30; v. 272; p. 761.
Cole, Elisha W., Charlotte, N. C. Planter. No. 1,339,688; May 11; v. 274; p. 270.
Cole, Francis, Leyland, England. Apparatus for the manufacture of solid band-tires. No. 1,355,734; Oct. 12; v. 279; p. 309.
Cole, Francis J., Schenectady, N. Y. Locomotive-truck. No. 1,334,738; Mar. 23; v. 272; p. 642.
Cole, Francis J., Schenectady, N. Y. Locomotive driving-box. No. 1,338,491; Apr. 27; v. 273; p. 732.
Cole, Fred H., Yuma, Colo. Store-counter. No. 1,348,087; July 27; v. 276; p. 723.
Cole, Frederick W., Newton Highlands, assignor to The Gamewell Fire Alarm Telegraph Company, Newton Upper Falls, Mass. Signaling device. No. 1,332,322; Mar. 2; v. 272; p. 28.

Digitized by Google

Cole, Frederick W., Newton Highlands, Mass., assignor to The Gamewell Fire Alarm Telegraph Company, Newton Upper Falls, Mass. Electromechanical valve mechanism for timing and controlling blasts on fire-alarm whistles and the like. No. 1,353,317; Sept. 21; v. 278; p. 408.

Cole, Herbert, *et al.* (See Liebers, Meyer, assignor.)

Cole, James L., and B. E. Sense, New Castle, Pa. Shade and curtain hanger. No. 1,356,127; Oct. 19; v. 279; p. 423.

Cole, John M., Bloomington, Ill. Tool for straightening clencher-rims. No. 1,344,538; June 22; v. 275; p. 755.

Cole Manufacturing Company. (See Dean, James H., assignor.)

Cole, Perry A., Elizabethtown, N. Y. **Fishhook-grapple.** No. 1,334,839; Mar. 23; v. 272; p. 662.

Cole, Robert C., assignor to The Johns-Pratt Company, Hartford, Conn. **Plug-cut-out base. No. 1,351,208;** Aug. 31; v. 277; p. 831.

Cole, Walter S., Marinette, Wis. **Bait and tackle box. No.** 1,332,202; Mar. 2; v. 272; p. 5.

Cole, William F., Waco, Tex. **Apparatus for forming gun-barrels. No. 1,339,023;** May 4; v. 274; p. 69.

Cole, Wilson T., Minneapolis, Minn. **Tabbing device. No.** 1,359,032; Nov. 16; v. 280; p. 463.

Coleman Boiler Appliance Company, The. (See Coleman, Charles S., assignor.)

Coleman, Charles S., assignor to The Coleman Boiler Appliance Company, Los Angeles, Calif. **Boiler-tube end section. No. 1,339,739;** May 11; v. 274; p. 279.

Coleman, Charles S., Los Angeles, Calif., assignor to The Coleman Boiler Appliance Company, Los Angeles, Calif. **Safe end flue. No. 1,339,740;** May 11; v. 274; p. 279

Coleman, Charles S., assignor to The Coleman Boiler Appliance Company, Los Angeles, Calif. **Boiler-tube and end-plate connection. No. 1,340,118;** May 11; v. 274; p. 351.

Coleman, Clyde J., New Rochelle, N. Y., assignor, by mesne assignments, to Stern-Coleman Diamond Machine Company, Inc. Means for holding diamonds during abrasive treatment. No. 1,329,370; Feb. 3; v. 271; p. 6.

Coleman, Clyde J., New Rochelle, N. Y., assignor, by mesne assignments, to Stern-Coleman Diamond Machine Company, Inc. Means for holding diamonds during the polishing operation. No. 1,329,371; Feb. 3; v. 271; p. 6

Coleman, Clyde J., New Rochelle, assignor to Stern-Coleman Diamond Machine Company, Inc., New York, N. Y. Art of polishing diamonds. No. 1,329,372; Feb. 3; v. 271; p. 6.

Coleman, Clyde J., New Rochelle, assignor to Stern-Coleman Diamond Machine Company, Inc., New York, N. Y. Art of polishing diamonds. No. 1,329,373; Feb. 3; v. 271; p. 6.

Coleman, Clyde J., New Rochelle, assignor to Stern-Coleman Diamond Machine Company, Inc., New York, N. Y. Cement for holding diamonds during polishing. No. 1,329,374; Feb. 3; v. 271; p. 6.

Coleman, Eugene, Oakland, Calif. Valve-testing device. No. 1,337,390; Apr. 20; v. 273; p. 454.

Coleman, George D., deceased; Nellie S. Coleman, executrix, Revere, Mass. **Razor-strop. No. 1,355,813; Oct.** 19; v. 279; p. 361.

Coleman, James M., assignor of one-fourth to J. W. Coleman, Montreal, Quebec, Canada. **Car-end reinforcement. No. 1,348,482;** Aug. 3; v. 277; p. 69.

Coleman, James W. (See Coleman, James M., assignor.)

Coleman, John P. (See Waldron, J. M., and Coleman.)

Coleman, John P., Edgewood borough, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa. **Railway-traffic-controlling apparatus. No. 1,363,840; Dec.** 28; v. 281; p. 701.

Coleman, Nellie S., executrix. (See Coleman, George D.)

Coleman, R. W. (See Sherman, Chester E., assignor.)

Coleman, Stephen L. C., Fredericton, New Brunswick, Canada. **Shock-absorbing mechanism for motor-vehicles.** No. 1,353,029; Sept. 14; v. 278; p. 202.

Coleman, Thomas A., Blytheville, Ark. **Balanced sheave.** No. 1,351,469; Aug. 31; v. 277; p. 885.

Coleman, Thomas A., Vredenburgh, Ala. **Saw-works mechanism.** No. 1,354,887; Oct. 5; v. 279; p. 88.

Coleman, William C., Wichita, Kans. **Lamp.** No. 1,344,200; June 22; v. 275; p. 689.

Coleman, William W., New York, N. Y. **Rail-brace.** No. 1,355,814; Oct. 19; v. 279; p. 361.

Coles, Charles H., London, England. **Electrical regulating-switch.** No. 1,349,818; Aug. 17; v. 277; p. 454.

Coles, Walter H., Troy, Ohio. **Lawn-sprinkling device.** No. 1,349,874; Aug. 17; v. 277; p. 465.

Coles, Wilfred G., assignor to Madison Kipp Corporation, Madison, Wis. **Oil-cup. No. 1,338,554; Apr. 27; v.** 273; p. 743.

Colesby, Joseph. (See Woodward, John J., assignor.)

Colestock, Harry H., St. Paul, Minn. **Sputum-box. No.** 1,344,442; June 22; v. 275; p. 737.

Coletta, Luigi, assignor of thirty-five one-hundredths to F. Alicandro, Columbus, Ohio. **Aeroplane. No.** 1,343,433; June 15; v. 275; p. 473.

Colkitt & Bleich Manufacturing Company. (See Colkitt, Charlie C., assignor.)

Colkitt, Charlie C., assignor to Colkitt & Bleich Manufacturing Company. Punxsutawney, Pa. **Clothesline-prop. No. 1,332,323;** Mar. 2; v. 272; p. 28.

Coll, Michael, New York, N. Y. Screw-holding attachment for screw-drivers. No. 1,360,500; Nov. 30; v. 280; p. 865.

Collar, Wells N., Detroit, Mich. Upholstery-fastening means. No. 1,340,475; May 18; v. 274; p. 475.

Collens, Campbell W., New Orleans, La. Switch-operating device for street-railway cars. No. 1,344,487; June 22; v. 275; p. 746.

Collett, Frederick W. H., Cambridge, Mass., assignor to Rockwell & Company, Inc. Mattress-side-stitching machine. No. 1,342,423; June 8; v. 275; p. 211.

Colley, Jacob, Pittsburgh, Pa. Combined saw setting and sharpening machine. No. 1,338,173; Apr. 27; v. 273; p. 672.

Colley, Ralph, Tonica, Ill. Disk-holder. No. 1,346,004; July 6; v. 276; p. 134.

Collicutt, D. Fellows, Columbia, S. C. Scythe-snathe. No. 1,353,631; Sept. 21; v. 278; p. 471.

Collier, Aaron, Petty, Tex. Spoke and tire for automobile and truck wheels. No. 1,329,111; Jan. 27; v. 270; p. 346.

Collier, David R., assignor to Collier-Keyworth Company, Gardner, Mass. Chair-iron. No. 1,336,509; Apr. 13; v. 273; p. 211.

Collier, David R., assignor to Collier-Keyworth Company, Gardner, Mass. Chair-iron. No. 1,336,510; Apr. 13; v. 273; p. 211.

Collier, Frederick W., Worcester, Mass., assignor to Economy Appliance Company, Marlboro, Mass. Toaster. No. 1,358,932; Nov. 16; v. 280; p. 445.

Collier-Keyworth Company. (See Collier, David R., assignor.)

Collier, William H., Yatesville, Ga. Submarine. No. 1,345,836; July 6; v. 276; p. 100.

Collignon, Albert L., Chicago, Ill. Pneumatic player-piano action. No. 1,363,457; Dec. 28; v. 281; p. 626.

Collignon, William C., Chicago, Ill. Pneumatic action for musical instruments. No. 1,340,017; May 11; v. 274; p. 332.

Collin, George W., Bridgeport, Conn. Thermostatic control device. No. 1,360,251; Nov. 23; v. 280; p. 748.

Collinge, Lee, Portland, Oreg. Gas-saver for internal-combustion engines. No. 1,329,753; Feb. 3; v. 271; p. 76.

Collings, William R., and J. A. Gann, assignors to The Dow Chemical Company, Midland, Mich. Making magnesium sulfate. No. 1,356,907; Oct. 26; v. 279; p. 623.

Collins, Albert E., Toronto, Ontario, Canada. Direction-indicator. No. 1,362,283; Dec. 14; v. 281; p. 307.

Collins, Albert K., Charlotte, N. C. Turnstile. No. 1,342,253; June 1; v. 275; p. 126.

Collins, Allison B., Denver, Colo. Shade-roller-operating mechanism. No. 1,348,928; Aug. 10; v. 277; p. 206.

Collins, Asa W., San Francisco, Calif. **Apparatus for binding fractured bones. No. 1,346,940; July 20;** v. 276; p. 439.

Collins, Cap B., Sioux Falls, S. D. **Rotary safety-razor.** No. 1,351,507; Aug. 31; v. 277; p. 892.

Collins, Earl G., Pembroke, Ky. **Tobacco-hiller. No.** 1,329,375; Feb. 3; v. 271; p. 6.

Collins, Edgar, Algonquin, W. Va. Fish-plate and nut-lock. No. 1,334,889; Mar. 23; v. 272; p. 671.

Collins, Edgar F., Schenectady, N. Y., assignor to General Electric Company. Electric heating apparatus. No. 1,343,996; June 22; v. 275; p. 649.

Collins, Edgar F., Schenectady, N. Y., assignor to General Electric Company. Oven. No. 1,334,840; Mar. 23; v. 272; p. 662.

Collins, Edgar V., and F. T., Ames, Iowa. Clutch and fuel-supply control mechanism. No. 1,339,435; May 11; v. 274; p. 221.

Collins, Edward W., assignor, by mesne assignments, to W. J. Hartwig, Detroit, Mich. Stacking-pin. No. 1,343,351; June 15; v. 275; p. 457.

Collins, Fonzo M., and J. H. Glenn, Holtville, Calif. Toy. No. 1,339,165; May 4; v. 274; p. 95.

Collins, Fred T. (See Collins, Edgar V. and F. T.)

Collins, George J. S., Peoria, Ill. Cylinder-block holder. No. 1,351,232; Aug. 31; v. 277; p. 837.

Collins, J., and M. L. Askew, Hopewell, Va. Brick-cleaning machine. No. 1,355,035; Oct. 5; v. 279; p. 116.

Collins, James H., Harrisburg, Pa. Spark-plug. No. 1,358,292; Nov. 9; v. 280; p. 271.

Collins, James J., Springfield, Mass. Reinforced tag. No. 1,355,940; Oct. 19; v. 279; p. 385.

Collins, Jeremiah F., and L. B. Weston, Brockton, Mass. Shoe-form. No. 1,346,296; July 13; v. 276; p. 253.

Collins, Jeremiah F., and L. B. Weston, Brockton, Mass. Last. No. 1,346,297; July 13; v. 276; p. 253.

Collins, Jewett H., Columbia, and T. Day, Moosup, Conn. Sliding door for automobile-bodies. No. 1,334,182; Mar. 16; v. 272; p. 483.

Collins, John W. (See Allyne, E. E., and Collins.)

Collins, Joseph E., Vancouver, British Columbia, Canada. Carpenter's saw. No. 1,335,659; Mar. 30; v. 272; p. 876.

Collins, Joseph M. (See Brooks, J. S., and Collins.)

Collins, Laurel B., Chicago, Ill. Folding crate. No 1,329,376; Feb. 3; v. 271; p. 7.

Digitized by Google

Alphabetical list of patentees—Continued.

Collins, Margaret, Boston, Mass. Nursery-toilet. No. 1,358,933; Nov. 16; v. 280; p. 445.
Collins, Martin H., Philadelphia, Pa. Rule. No. 1,332,887; Mar. 9; v. 272; p. 187.
Collins, Nathaniel T., Sacramento, Calif. Steam-turbine. No. 1,355,090; Oct. 5; v. 279; p. 127
Collins, Norman, assignor to Walishaw Clock Company, Limited, London, England. Electric clock. No. 1,363,841; Dec. 28; v. 281; p. 701.
Collins, Richard P., Norwood, Pa. Detachable handle for cutters, &c. No. 1,357,763; Nov. 2; v. 280; p. 107.
Collins and Roessel. (See Bellis, Arthur E., assignor.)
Collins Rotary Safety Razor Company. (See Hasselquist, Hugo S., assignor.)
Collins, Roy L., Redwood, N. Y. Curtain and shade fixture. No. 1,327,460; Jan. 6; v. 270; p. 108.
Collins, Russell L., *et al.* (See Park, George L., assignor.)
Collins, Thomas E., Chicago, Ill. Starter. No. 1,344,291; June 22; v. 275; p. 707.
Collins, Thomas E., Chicago, Ill. Door check and closers. No. 1,353,219; Sept. 21; v. 278; p. 389.
Collins, William A., Vancouver, British Columbia, Canada. Soap-container. No. 1,339,166; May 4; v. 274; p. 96.
Collins, William D. (See Morgan, M. B., Collins, and Kinney.)
Collins, William J. (See Drum, William C., assignor.)
Collinson, John, Manchester, England, assignor to Westinghouse Electric and Manufacturing Company. Electrical resistance. No. 1,332,030; Feb. 24; v. 271; p. 624.
Collinsworth, Thomas W., Waverly, Kans. Grain-door for railway-cars. No. 1,359,033; Nov. 16; v. 280; p. 464.
Collis Company, The. (See Skelton, George G., assignor.)
Collis, Fred L., Iowa Falls, Iowa. Sweeper. No. 1,337,199; Apr. 20; v. 273; p. 418.
Collis, Norman P., St. Paul, Minn., assignor to Collis Products Company, Clinton, Iowa. Drying buttermilk. No. 1,356,340; Oct. 19; v. 279; p. 465.
Collis Products Company. (See Collis, Norman P., assignor.)
Collison, Thomas A., assignor to Mount Vernon Car Manufacturing Company, Mount Vernon, Ill. Carline and making same. No. 1,330,980; Feb. 17; v. 271; p. 407.
Collord, George L., Pittsburgh, Pa. Treating ores. No. 1,343,249; June 15; v. 275; p. 438.
Collord, George L., Pittsburgh, Pa. Treating ores. No. 1,343,250; June 15; v. 275; p. 438.
Collord, George L., Pittsburgh, Pa. Road-surfacing material. No. 1,361,140; Dec. 7; v. 281; p. 32.
Colman, Howard D., assignor to Barber-Colman Company, Rockford, Ill. Knotter. No. 1,348,929; Aug. 10; v. 277; p. 207.
Colman, Howard D., assignor to Barber-Colman Company, Rockford, Ill. Support for yarn-carriers. No. 1,329,504; Feb. 3; v. 271; p. 31.
Colman, Howard D., B. A. Peterson, and E. D. Parker, assignors to Barber-Colman Company, Rockford, Ill. Machine for operating upon warps. No. 1,342,896; June 8; v. 275; p. 305.
Colman, Lulu M., Chappell, Nebr. Eyeglasses. No. 1,359,576; Nov. 23; v. 280; p. 615.
Colmar Burner Company, The. (See Smith, Harry M., assignor.)
Colmar Burner Company, The. (See Yeager, Matthias S., assignor.)
Colmus, Frank J., Baltimore, Md. Hitch-pin for pianos and other string instruments. No. 1,339,689; May 11; v. 274; p. 270.
Colomb, Henri, Tavannes, Switzerland. Double-roller lever-escapement. No. 1,345,318; June 29; v. 275; p. 971.
Colona Manufacturing Company. (See Shrum, Peter J., assignor.)
Colonial Chemical Company. (See Walker, George T., assignor.)
Colonial Machine Company. (See Vandercar, William J., assignor.)
Colonnetti, Gustavo. (See Pozzo, A., and Colonnetti.)
Colony, Pearl C., Los Angeles, Calif. Advertising-car construction. No. 1,347,012; July 20; v. 276; p. 453.
Colquitt, Frank R., Huntington Park, and C. E. Chapman, Los Angeles, Calif. Steamer. No. 1,341,972; June 1; v. 275; p. 71.
Colson, Frankie M., Salt Lake City, Utah. False bottom for cooking utensils. No. 1,343,114; June 8; v. 275; p. 348.
Colson, Robert J., St. Louis, Mo. Wrench. No. 1,329,161; Jan. 27; v. 270; p. 556.
Colt, Samuel S., Orange, N. J. Molding apparatus and clamping means therefor. No. 1,358,417; Nov. 9; v. 280; p. 298.
Colter, George T., New York, N. Y. Brassière-book. No. 1,346,702; July 13; v. 276; p. 333.
Colter, Robert L., Wauchula, Fla., and E. F. Rioux, Wabnapitae, Ontario, Canada, assignors of one-tenth to R. B. Owen, Washington, D. C. Photographic camera. No. 1,362,397; Dec. 14; v. 281; p. 329.
Colt's Patent Fire Arms Manufacturing Company. (See Couch, Elbert L., assignor.)
Columbia Graphophone Manufacturing Company. (See Beadle, George W., assignor.)
Columbia Graphophone Manufacturing Company. (See Clauder, Arthur W., assignor.)
Columbia Graphophone Manufacturing Company. (See Hinckley, Frank C., assignor.)
Columbia Graphophone Manufacturing Company. (See Scully, John J., assignor.)
Columbia Graphophone Manufacturing Company. (See Welch, Horace H., assignor.)
Columbian Bronze Corporation. (See Hall, Louis J., assignor.)
Columbian Bronze Corporation. (See Patrick, Robert A., assignor.)
Columbian Hardware Company, The. (See Watkins, Evan, assignor.)
Columbian Printing Company. (See Closky, George J., assignor.)
Columbus, Bernhard, New York, N. Y. Gas-heater. No. 1,335,427; Mar. 30; v. 272; p. 882.
Columbus Glass Company, The. (See Campbell, James H., assignor.)
Columbus McKinnon Chain Company, The. (See Christie, Edwin C., assignor.)
Colver, Arthur S., and H. E. Bellm, assignors of one-third to C. C. Colver, Chicago, Ill. Labeling-machine. No. 1,353,519; Sept. 21; v. 278; p. 448.
Colver, Charles C. (See Colver, A. S., and Bellm, assignors.)
Colvin, Charles H., Brooklyn, N. Y. Magnetic compass. No. 1,334,273; Mar. 16; v. 272; p. 506.
Colvin, Chas., South Charleston, Ohio. Fencepost. No. 1,360,501; Nov. 30; v. 280; p. 865.
Colvin, Frederick H., Duluth, Minn. Drift-bar. No. 1,344,619; June 29; v. 275; p. 887.
Colvin, Shady D., assignor of one-half to W. H. Welch, Myrtis, La. Electrical superheater. No. 1,346,741; July 13; v. 276; p. 341.
Colvocoresses, Harold, Atlanta, Ga. Hay raking and loading device. No. 1,361,685; Dec. 7; v. 281; p. 142.
Colwell, Alvah J., and A. T. Kenney, Norfolk, Nebr. Draft-hitch for tractor-vehicles. No. 1,329,581; Feb. 3; v. 271; p. 45.
Colwell, E. B., *et al.* (See Gordon, Albert J., assignor.)
Colwell, Edmund, *et al.* (See Gordon, Albert J., assignor.)
Colwell, John W., assignor of two-thirds to M. Kohn, Chicago, Ill. Liquid-fuel burner. No. 1,342,988; June 8; v. 275; p. 823.
Comas Cigarette Machine Company. (See Schofield, Frederick C., assignor.)
Comb, James M., and C. E. Peavey, Minneapolis, Minn., assignors of forty-nine one-hundredths to F. K. Younker, J. Lince, and M. Silberberg, Des Moines, Iowa. Machine for cooking dougbnuts. No. 1,333,389; Mar. 9; v. 272; p. 281.
Comber, Hubert H., and J. W. Stalker, Winnipeg, Manitoba, Canada. Extracting oils from coal-tar. No. 1,327,271; Jan. 6; v. 270; p. 73.
Combination Auto Lock Company. (See Balthasar, Harry G., assignor.)
Combo Manufacturing Co. (See Tiffin, Vandevere, assignor.)
Combs, Binny F., East Berkshire, Vt. Identification-marker for receptacles such as milk-cans. No. 1,348,628; Aug. 3; v. 277; p. 97.
Combs, Edgar S., Rochester, N. Y. Trolley. No. 1,336,199; Apr. 6; v. 273; p. 94.
Combs, Endner C. (See McCarthy, F. R., and Combs.)
Combs, William J., Otterbein, Ind. Scoop-board. No. 1,357,955; Nov. 9; v. 280; p. 205.
Combustion Engineering Corporation. (See Skelly, John S., assignor.)
Combustion Engineering Corporation. (See Van Brunt, John, assignor.)
Combustion Engineering Corporation. (See Wagoner, Judson E., assignor.)
Comer, John H., Liberty Hill, Tex. Silo. No. 1,343,809; June 15; v. 275; p. 548.
Comer, John H., Liberty Hill, Tex. Ensilage-packer for silos. No. 1,334,521; Mar. 23; v. 272; p. 601.
Comerma, John, assignor to H. B. Nassolt, New York, N. Y. Sound-absorbing and heat-insulating material and making same. No. 1,358,830; Nov. 16; v. 280; p. 425.
Comfort, Edward W. (See Thompson, A. W., and Comfort.)
Comiskey, Stanley A., Baltimore, Md., assignor to The Cutler-Hammer Mfg. Co. Counter No. 1,342,665; June 8; v. 275; p. 257.
Comly, James F., New Lexington, Ohio. Nut-lock. No. 1,344,534; June 22; v. 275; p. 755.
Commercial Camera Company. (See Greene, John S., assignor.)
Commercial Cars Construction Company. (See Rogers, Solomon D., assignor.)
Commercial Radio Company of America. (See Giblin, Thomas P., assignor.)
Commercial Research Company, The. (See Brooks, Benjamin T., assignor.)
Commercial Research Company. (See Coblentz, V., and Walker, assignors.)
Commercial Wireless and Development Co. (See Pridham and Jensen, assignors.)
Commonwealth Steel Company. (See Pflager, Harry M., assignor.)

Digitized by Google

Commonwealth Steel Company. (See Sheehan, William M., assignor.)
Commonwealth Steel Company. (See Westlake, Charles T., assignor.)
Community Mausoleum Association. (See Boughton, Walter W., assignor.)
Comp, Charles A., assignor to Buhl Stamping Company, Detroit, Mich. Embossing-machine. No. 1,360,728; Nov. 30; v. 280; p. 909.
Comp., Phoebus E. G. (See Boltshauser, Conrad, assignor.)
Compac Tent Company. (See Eberhardt, Ferdinand, assignor.)
Compagnie Belge Du Bi-Metal, Société Anonyme. (See Martin, Edouard, assignor.)
Compagnie D'Applications Mechaniques. (See Rouanet, Louis, assignor.)
Compagnie des Bouchages Hermetiques Simplex. (See Pernot, Henri A., assignor.)
Compagnie Des Forges et Acieries De La Marine et D'Homecourt. (See Rimailho, Emile, assignor.)
Compagnie des Produits Chimiques d'Alais et de la Camargue. (See Guyot, Alfred, assignor.)
Compagnie Generale D'Electricite. (See Dupuy, René J., assignor.)
Compagnie Generale Des Etablissements Pathe Freres, Phonographe et Cinematographe. (See Janot, Louis, assignor.)
Compare, Manrico, Leghorn, Italy. Radiotelegraph system. No. 1,356,488; Oct. 19; v. 279; p. 493.
Composition Machinery Corporation. (See Burroughs, Charles F., assignor.)
Compton, Clarence D. (See Robus, J., and Compton.)
Computing Scale Company, The. (See Hopkinson, Joseph, assignor.)
Comstock, Daniel F., Cambridge, assignor to Kalmus, Comstock & Wescott, Incorporated, Boston, Mass. Production of complemental images. (Reissue.) No. 14,983; Nov. 16; v. 280; p. 550.
Comstock, Jesse F., Wilkes-Barre, Pa. Press. No. 1,341,414; May 25; v. 274; p. 726.
Comstock, Jesse F., Wilkes-Barre, Pa. Winding-machine. No. 1,346,635; July 13; v. 276; p. 320.
Comstock, Orvil R., West Allis, Wis. Cyaniding-tower. No. 1,361,445; Dec. 7; v. 281; p. 94.
Conaway, Charles W., *et al.* (See Musebeck, George E., assignor.)
Conaway, William H., Wichita, Kans. Apparatus for handling fence-wire. No. 1,327,024; Jan. 6; v. 270; p. 28.
Concannon, Michael E., Chicago, Ill. Proportional spacer. No. 1,351,889; Sept. 7; v. 278; p. 36.
Concha, Francisco, Cuzco, Peru. Coat-collar holder. No. 1,328,945; Jan. 27; v. 270; p. 515.
Concrete Craft Corporation. (See Kastengren, Gustavus E., assignor.)
Concrete Forms Company, The. (See Branson and Strathmann, assignors.)
Condit, Sears B., Jr. (See Ackerman, Paul, assignor.)
Condit, Sears B., Jr. (See Burnham, George A., assignor.)
Condito, George C., Wingdale, N. Y. Lifting-jack. No. 1,345,135; June 29; v. 275; p. 935.
Condon, Edward T., Jr., New York, N. Y. Automatic stop mechanism for talking-machines. No. 1,334,350; Mar. 23; v. 272; p. 569.
Condon, Edward T., Jr., New York, N. Y. Tone-arm mechanism. No. 1,334,351; Mar. 23; v. 272; p. 570.
Condon, Edward T., Jr., New York, N. Y. Automatic stop mechanism for talking-machines. No. 1,351,839; Sept. 7; v. 278; p. 25.
Condon, Perry M., Albany, N. Y. Toy. No. 1,328,719; Jan. 20; v. 270; p. 442.
Condon, Thomas J., Detroit, Mich. Saddle-spring support. No. 1,344,382; June 22; v. 275; p. 724.
Condran, Joseph J., New Orleans, La. Bumpers. No. 1,339,167; May 4; v. 274; p. 96.
Cone Carrier Corporation. (See McIntosh, Frank E., assignor.)
Cone, Thomas H. S., Boundbrook, N. J. Testing system. No. 1,350,358; Aug. 24; v. 277; p. 605.
Cone, William C. (See Richley, Alfred, assignor.)
Cone, William H., assignor of one-half to C. H. Carpenter, Minneapolis, Minn. Motion-picture projector. No. 1,356,600; Oct. 26; v. 279; p. 562.
Conerty, Patrick F. (See Litzinger, L. P., Conerty, and Snodgrass.)
Confer, Carl G., Summit Hill, Pa. Toy vehicle. No. 1,358,188; Nov. 9; v. 280; p. 251.
Congdon, Charles H., East Stroudsburg, Pa. Container. No. 1,346,298; July 13; v. 276; p. 254.
Congdon, George A., Somerville, Mass. Slumber-wagon. No. 1,349,602; Aug. 17; v. 277; p. 412.
Congdon, Harry R., San Francisco, Calif. Etching-machine. No. 1,359,872; Nov. 23; v. 280; p. 673.
Congdon, Raymond E., Chicago, Ill. Telephone-shelf. No. 1,360,180; Nov. 23; v. 280; p. 734.
Conger, George S., New York, N. Y., assignor to Dow, Jones & Company. Inking mechanism. No. 1,330,787; Feb. 17; v. 271; p. 369.
Congdon, John E. (See Tucker, A. Y., and Congdon.)
Conger, Thomas M., Elyria, Ohio. Shock-absorbing heel. No. 1,363,568; Dec. 28; v. 281; p. 648.
Coniglio, Carmelo, Port Arthur, Tex. Lawn-mower. No. 1,338,123; Apr. 27; v. 273; p. 663.
Conill, Fernan, New York, N. Y. Massage implement. No. 1,349,495; Aug. 10; v. 277; p. 318.
Conine, James B., Fort Worth, Tex. General-delivery post-office cabinet. No. 1,351,372; Aug. 31; v. 277; p. 866.
Conklin, Dewitt C., Mount Arlington, N. J. Heating-stove. No. 1,349,603; Aug. 17; v. 277; p. 413.
Conklin, Oliver F., Detroit, Mich., assignor to Remy Electric Company, Anderson, Ind. Self-lubricating bearing. No. 1,341,415; May 25; v. 274; p. 727.
Conklin, Oliver F., Detroit, Mich., assignor to Remy Electric Company, Anderson, Ind. Regulating device for dynamo-electric machines. No. 1,352,051; Sept. 7; v. 278; p. 66.
Conklin, Oliver F., Detroit, Mich., assignor to Remy Electric Company, Anderson, Ind. Ignition apparatus. No. 1,354,888; Oct. 5; v. 279; p. 88.
Conklin Pen Manufacturing Company, The. (See Luek, Charles A., assignor.)
Conkling, Cloud C., deceased; L. C. Conkling, executrix, and C. S. Boardman, Buffalo, assignors to Lackawanna Steel Company, Lackawanna, N. Y. Integral sheet-piling. No. 1,330,240; Feb. 10; v. 271; p. 299.
Conkling, Cloud C., Buffalo, N. Y., assignor to Lackawanna Steel Company, Lackawanna, N. Y. Metal sheet-piling section and wall. No. 1,338,287; Apr. 27; v. 273; p. 693.
Conkling, De Witt C., New York, N. Y. Steam-engine. No. 1,345,319; June 29; v. 275; p. 971.
Conkling, Lucile C., executrix. (See Conkling and Boardman.)
Conkling, Marion E. (See Bushell, E. E., and Conkling.)
Conlan, David, Jr., Brooklyn, N. Y. Electrical apparatus. No. 1,363,394; Dec. 28; v. 281; p. 618.
Conlee, Cheever C., Dayton, Ohio. Audible signal for motor-vehicles. No. 1,348,930; Aug. 10; v. 277; p. 207.
Conley, Frederick T., Boston, Mass. Pipe expanding, cutting, or nurling tool. No. 1,335,660; Mar. 30; v. 272; p. 876.
Conley, Lafayette H., Sault Ste. Marie, Mich. Spoke-nipple wrench for wire wheels. No. 1,335,092; Mar. 30; v. 272; p. 770.
Conlin, Frederick. (See Heath, Harry E., assignor.)
Conlin, Frederick, Elizabeth, N. J. Marine torpedo. No. 1,348,152; Aug. 3; v. 277; p. 4.
Conlin, William P. (See Heath, C. W., and Conlin.)
Conlon, Charles, Lynbrook, N. Y. Mechanical movement. No. 1,344,989; June 29; v. 275; p. 907.
Conlon Electric Washer Co. (See Moran, William F., assignor.)
Conlon Electric Washer Company. (See Wassell, Clifford R., assignor.)
Conlon, James, Pawtucket, R. I. Transportation system. No. 1,342,531; June 8; v. 275; p. 232.
Conlon, Richard T., assignor to Fino Incorporated, New York, N. Y. Compound for cleaning marble, stone, &c. No. 1,335,317; Mar. 30; v. 272; p. 812.
Conlon, Thomas P., New York, N. Y. Lock, bolt, or catch for doors, windows, shutters, or the like. No. 1,347,251; July 20; v. 276; p. 500.
Conly, Frederick V. (See Matter, A. J., and Conly.)
Conn, C. G., Ltd. (See Gulick, Edward J., assignor.)
Conn, Wallace T., St. Marys, Pa., assignor to N. D. Baker, Secretary of War, trustee. Light-projector. No. 1,361,018; Dec. 7; v. 281; p. 8.
Connable, Frank L., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Spark-arresting device. No. 1,339,498; May 11; v. 274; p. 233.
Connealy, George P., Decatur, Nebr. Vehicle-body. No. 1,359,332; Nov. 16; v. 280; p. 521.
Connecticut Electric Clock Co. (See Greenleaf, William H., assignor.)
Connecticut Electric Manufacturing Company, The. (See Both, Tonjes A., assignor.)
Connecticut Electric Manufacturing Company, The. (See Trumbull, A. H., and Both, assignors.)
Connecticut Electric Mfg. Co., The. (See Both, T. A. C., Trumbull, and Schoenberg, assignors.)
Connecticut Telephone & Electric Company, The. (See Cavanagh, John F., assignor.)
Connecticut Telephone & Electric Company. (See Donle, Harold P., assignor.)
Connecticut Telephone & Electric Company, The. (See Livingston, Stanley D., assignor.)
Connecticut Telephone & Electric Company, Incorporated, The. (See Livingston, S. D., and Stahl, assignors.)
Connecticut Web & Buckle Company, The. (See Cleary, Edward, assignor.)
Connell, Alexander, Glasgow, Scotland. Tool-holder for lathes. No. 1,331,322; Feb. 17; v. 271; p. 469.
Connell, Howard G., and A. J. Swindall, Dryad, Wash. Cattle-guard. No. 1,344,262; June 22; v. 275; p. 700.
Connell, Roy, Buffalo, N. Y. Combination terminal block and lightning-arrester. No. 1,328,720; Jan. 20; v. 270; p. 442.
Connell, Simon J., Brooklyn, N. Y. Valve. No. 1,348,089; July 27; v. 276; p. 724.

Digitized by Google

Connell, Thomas, and C. T. Stach, Iowa City, Iowa. Headlight-dimmer. No. 1,328,129; Jan. 13; v. 270; p. 295.
Connelley, Edward, Houston, Tex. Steam-generating plant. No. 1,331,240; Feb. 17; v. 271; p. 454.
Connelly, Harry F., Macomb, Ill. Concrete edging and marking tool. No. 1,347,938; July 27; v. 276; p. 693.
Connelly, Joseph H. (See Buchwald, H. C., and Connelly.)
Connolly, Joseph E., Newark, N. J. Knockdown painter's swinging scaffold. No. 1,360,724; Nov. 30; v. 280; p. 909.
Connelly, Lawrence E., assignor of one-half to W. C. Connelly, Cleveland, Ohio. Steam-boiler furnace. No. 1,333,652; Mar. 16; v. 272; p. 393.
Connelly, Lawrence E., assignor of one-half to W. C. Connelly, Cleveland, Ohio. Steam-generator. No. 1,333,653; Mar. 16; v. 272; p. 393.
Connelly, William C. (See Connelly, Lawrence E., assignor.)
Conner, Charles W., Wilmington, N. C., assignor to One-piece Bifocal Lens Company, Indianapolis, Ind. Producing bifocal lenses. (Reissue.) No. 14,822; Mar. 23; v. 272; p. 683.
Conner, G. F., and J. W. Dove, Port Huron, Mich. Chair. No. 1,361,446; Dec. 7; v. 281; p. 95.
Conner, J. M., *et al.* (See Johnson, Albert S., assignor.)
Conner, Thomas R., Sylvan, Pa. Soap-dish. No. 1,340,327; May 18; v. 274; p. 447.
Conners, George H. (See Couch, E. H., and Conners.)
Connersville Blower Company, The. (See Wilkin, John T., assignor.)
Conness, Edward W., Klamath Falls, Oreg. Resilient wheel. No. 1,335,661; Mar. 30; v. 272; p. 876.
Connolly, James J. (See Huff, William D., assignor.)
Connor, Albert W., Covington, Ky., and G. D. Anderson, assignors to The Auto Specialty Co., Cincinnati, Ohio. Radiator-cover. No. 1,354,889; Oct. 5; v. 279; p. 88.
Connor, Charles F., Marlboro, Mass. Cutting-block. No. 1,340,018; May 11; v. 274; p. 332.
Connor, Clyde O., assignor of one-half to D. Harr, Wichita, Kans. Power-driven hair-clipper. No. 1,350,005; Aug. 17; v. 277; p. 490.
Connor, Frank B., Ithaca, N. Y. Toilet-seat. No. 1,359,873; Nov. 23; v. 280; p. 673.
Connor, George W., Anderson, S. C. Apparatus for developing power. No. 1,332,804; Mar. 2; v. 272; p. 120.
Connors, Alford A., Universal City, Calif. Book-holder for beds, &c. No. 1,347,471; July 20; v. 276; p. 543.
Connors, Alfred L., and F. A. Rutledge, Woody, Calif. Polish and color reviver and preservative. No. 1,356,128; Oct. 19; v. 279; p. 423.
Connors, Thomas F., Bridgeport, Conn. Necktie and pin holder. No. 1,342,796; June 8; v. 275; p. 285.
Connors, William. (See Thompson, Willis M., assignor.)
Conover, Claude A., Newburgh, N. Y. Detachable tooth. No. 1,351,623; Aug. 31; v. 277; p. 915.
Conover, Courtney, Philadelphia, Pa. Handling and utilizing combustible gases. No. 1,363,313; Dec. 28; v. 281; p. 599.
Conover, Courtney, Philadelphia, Pa. Apparatus for bringing about and controlling reactions between gases. No. 1,363,955; Dec. 28; v. 281; p. 723.
Conover, George W., assignor to The C-K Co., Chicago, Ill. Dish-washing machine. No. 1,354,022; Sept. 28; v. 278; p. 592.
Conover, Jacob B., Jersey City, N. J. Clamping and locking means for milk-can covers. No. 1,361,141; Dec. 7; v. 281; p. 32.
Conover, William M., Gettysburg, Pa. Stitching-horse. No. 1,331,487; Feb. 24; v. 271; p. 521.
Conrad, Albert L., Pasadena, Calif. Rake. No. 1,339,436; May 11; v. 274; p. 221.
Conrad, Frank, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Ignition system. No. 1,352,431; Sept. 14; v. 278; p. 173.
Conrad, Frank, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical ignition system. No. 1,352,433; Sept. 14; v. 278; p. 173.
Conrad, Frank, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Gear-shift mechanism. No. 1,363,719; Dec. 28; v. 281; p. 677.
Conrad, Frank, Pittsburgh, and J. S. Kinney, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Ignition system. No. 1,338,360; Apr. 27; v. 273; p. 708.
Conrad, Frank, Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Mounting for oil-pumps. No. 1,344,756; June 29; v. 275; p. 863.
Conrad, Frank, Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical ignition system. No. 1,352,432; Sept. 14; v. 278; p. 173.
Conrad, Frank, Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Ignition system. No. 1,352,434; Sept. 14; v. 278; p. 173.
Conrad, Joshua C. (See Stokes, R. C., and Conrad.)
Conrad, Joshua C., Cement, Okla. Cotton-machine. No. 1,331,000; Feb. 17; v. 271; p. 411.
Conrad, Joshua C., Cement, Okla. Cotton-machine. No. 1,331,001; Feb. 17; v. 271; p. 411.
Conrad, Nicholas J. (See Schweitzer, E. O., and Conrad.)
Conrad, Nicholas J., Chicago, Ill. Circuit-breaking apparatus. No. 1,335,045; Mar. 30; v. 272; p. 761.
Conrad, Nicholas J., Chicago, Ill. Circuit-breaker. No. 1,336,069; Apr. 6; v. 273; p. 69.
Conrader, Rudolph, Erie, Pa. Controlling device for compressors. No. 1,328,984; Jan. 27; v. 270; p. 522.
Conradson, Conrad M., Madison, Wis. Carriage-bed for lathes. No. 1,352,183; Sept. 7; v. 278; p. 89.
Conran, William F., Brooklyn, N. Y. Pressure-regulating valve. No. 1,344,383; June 22; v. 275; p. 725.
Conry, William, Laporte, Ind. Barrel. No. 1,356,041; Oct. 19; v. 279; p. 405.
Consolidated American Fastener Companies. (See Nelson, William, assignor.)
Consolidated Car-Heating Company. (See Hynes, Lee P., assignor.)
Consolidated Gas Company of New York. (See Hodges, Charles H., assignor.)
Consolidated Machine Company. (See Stewart, Laurence E., assignor.)
Consolidated Machine Company. (See Walter, Hugo J., assignor.)
Constable, Frederick W. (See Rapp, Fred, assignor.)
Constable, John P., C. G. Michalis, West Orange, and E. McGall, Orange, assignors to New Jersey Patent Company, West Orange, N. J. Primary or voltaic battery or cell. No. 1,334,946; Mar. 30; v. 272; p. 741.
Constable, John P., assignor to New Jersey Patent Company, West Orange, N. J. Phonograph. No. 1,359,966; Nov. 23; v. 280; p. 692.
Constantine, Henry A., Niagara Falls, N. Y. Wet pulp-machine. No. 1,344,024; June 22; v. 275; p. 654.
Constantinesco, George, Weybridge, assignor of one-half to W. Haddon, London, England. Rock-drill and like machine. No. 1,334,284; Mar. 23; v. 272; p. 557.
Constantinesco, George, Alperton, and J. R. Middleton, London, England. Storage of energy due to an explosion. No. 1,338,676; May 4; v. 274; p. 5.
Constantinesco, Gogu, assignor of one-half to W. Haddon, London, England. Hydraulic power transmission. No. 1,334,283; Mar. 23; v. 272; p. 557.
Constantinesco, Gogu, Alperton, assignor of one-half to W. Haddon, London, England. Storage and utilization of energy by means of liquids. No. 1,334,281; Mar. 23; v. 272; p. 556.
Constantinesco, Gogu, Alperton, assignor of one-half to W. Haddon, London, England. Transmission of impulsive forces through liquids. No. 1,334,282; Mar. 23; v. 272; p. 556.
Constantinesco, Gogu, Alperton, assignor of one-half to W. Haddon, London, England. Means for feeding liquid wave-transmission lines. No. 1,334,285; Mar. 23; v. 272; p. 557.
Constantinesco, Gogu, Alperton, assignor of one-half to W. Haddon, London, England. Fluid wave transmission. No. 1,334,286; Mar. 23; v. 272; p. 557.
Constantinesco, Gogu, Alperton, assignor of one-half to W. Haddon, London, England. Means for compensating for leakage in wave-transmission systems. No. 1,334,287; Mar. 23; v. 272; p. 557.
Constantinesco, Gogu, Alperton, assignor of one-half to W. Haddon, London, England. Liquid wave transmission. No. 1,334,288; Mar. 23; v. 272; p. 557.
Constantinesco, Gogu, Alperton, assignor of one-half to W. Haddon, London, England. Liquid wave transmission. No. 1,334,289; Mar. 23; v. 272; p. 558.
Constantinesco, Gogu, Alperton, assignor of one-half to W. Haddon, London, England. Liquid wave transmission of power. No. 1,334,290; Mar. 23; v. 272; p. 558.
Constantinesco, Gogu, Alperton, assignor of one-half to W. Haddon, London, England. Rotary motor actuated by alternating fluid-currents. No. 1,334,291; Mar. 23; v. 272; p. 558.
Constantinesco, Gogu, Weybridge, assignor of one-half to W. Haddon, Alperton, England. Hydraulic transmission. No. 1,334,280; Mar. 23; v. 272; p. 556.
Consumers Biscuit Company. (See Rizzuto, James, assignor.)
Contal, Camille, St. Cloud, and E. Requillart, Paris, France. Expression mechanism for mechanical pianos. No. 1,340,019; May 11; v. 274; p. 332.
Contento, Domenico, New York, N. Y. Eyeglasses. No. 1,338,174; Apr. 27; v. 273; p. 672.
Conti, Angelo, Washington, D. C. System of marine propulsion. No. 1,342,797; June 8; v. 275; p. 286.
Conti, Pietro A., Nevada City, Calif. Window-wiper. No. 1,349,118; Aug. 10; v. 277; p. 243.
Continental Air Craft & Transportation Company. (See Leinweber, Victor H., assignor.)
Continental Can Co. (See Kronquest, A. L., and Taliaferro.)
Continental Can Company. (See Kronquest, Alfred L., assignor.)
Continental Can Company. (See Sedwick, Mathew M., assignor.)
Continental Can Company. (See Taliaferro, J. C., and Warme, assignors.)
Continental Can Company. (See Taliaferro, J. C., Robinson, and Coyle, assignors.)
Continental Can Company. (See Warme, Ivar F., assignor.)
Continental Can Company. (See Warme, I. F., and Blood, assignors.)

Digitized by Google

Continental Engineering Corporation. (See Buck, Wilmer G., assignor.)
Continental Gin Company. (See Ligon, Harry W., assignor.)
Continental Gin Company. (See Munger, Eugene, assignor.)
Continental Motors Corporation. (See Goodrich, George N., assignor.)
Continental Motors Corporation. (See Weinhardt, Robert A., assignor.)
Continental Tractor Company. (See Plettner, O. L., and Lowe, assignors.)
Converse, Atherton D., Winchendon, Mass. Toy aeroplane. No. 1,353,147; Sept. 21; v. 278; p. 375.
Converse, Francis R., and J. L. Butler, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Making adhesive-cord strips and winding mechanism therefor. No. 1,337,690; Apr. 20; v. 273; p. 511.
Converse, John W., Rosemont, Pa. Army field-kitchen. No. 1,331,241; Feb. 17; v. 271; p. 455.
Converse, M. E., & Son Co. (See Hewitt, Fred L., assignor.)
Converse, Newton B., San Francisco, Calif. Speed-indicator for airships. No. 1,334,229; Mar. 16; v. 272; p. 500.
Converse Rubber Shoe Company. (See Bullock, Hugh, assignor.)
Convery, John J., New York, N. Y., assignor to Kelly-Springfield Tire Company, Akron, Ohio. Tire-building machine. No. 1,331,242; Feb. 17; v. 271; p. 455.
Convery, John J., New York, N. Y., assignor to Kelly-Springfield Tire Company, Akron, Ohio. Tire-making machine. No. 1,332,108; Feb. 24; v. 271; p. 638.
Convery, John J., New York, N. Y., assignor to Kelly-Springfield Tire Company, Akron, Ohio. Tire-building machine. No. 1,332,608; Mar. 2; v. 272; p. 83.
Conway, James E. (See Farmer, James, assignor.)
Conway, Roy, *et al.* (See Stoltz, Otto W., assignor.)
Conway, Roy D., Chatham, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Testing system. No. 1,340,936; May 25; v. 274; p. 633.
Conway, Roy D., Chatham, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. No. 1,343,196; June 15; v. 275; p. 428.
Conway, Thomas G., Jr., South Orange, assignor to The National Lock Washer Company, Newark, N. J. Nut-lock. No. 1,362,675; Dec. 21; v. 281; p. 435.
Conway, William T., Cincinnati, Ohio. Saw. No. 1,362,676; Dec. 21; v. 281; p. 435.
Conwell, Laura E. (See Conwell, Myers C., assignor.)
Conwell, Myers C., assignor to L. E. Conwell, Larchmont, N. Y. Tool. No. 1,361,686; Dec. 7; v. 281; p. 142.
Cook, Adolphus H., Toronto, Ontario, Canada. Air-driven motor. No. 1,361,019; Dec. 7; v. 281; p. 8.
Cook, Adoniram J., Westerlo, N. Y. Chain-lock. No. 1,334,133; Mar. 16; v. 272; p. 483.
Cook, Adoniram J., Westerlo, N. Y. Metal aeroplane. No. 1,363,569; Dec. 28; v. 281; p. 648.
Cook, Albert E., Chicago, Ill. Truck attachment for automobiles. No. 1,350,006; Aug. 17; v. 277; p. 490.
Cook, Albert E., Evanston, Ill. Endless cutter for mowers. No. 1,353,891; Sept. 28; v. 278; p. 566.
Cook, Charles B. (See Cook, Clayton T. and C. B.)
Cook, Charles D., Cranston, and S. S. Blaisdell, Providence, R. I. Cleat. No. 1,328,985; Jan. 27; v. 270; p. 522.
Cook, Charles L., Louisville, Ky. Boiler. No. 1,355,125; Oct. 12; v. 279; p. 186.
Cook, Charles M., Rochester, N. H. Grinder. No. 1,336,200; Apr. 6; v. 273; p. 94.
Cook, Charles M., Rochester, N. H. Shoe-fastener. No. 1,348,392; Aug. 3; v. 277; p. 52.
Cook, Charles W., Holyoke, Mass. Paper-finishing plate. No. 1,362,677; Dec. 21; v. 281; p. 435.
Cook, Charles W., Holyoke, Mass. Method of finishing paper. No. 1,362,678; Dec. 21; v. 281; p. 435.
Cook, Clayton T. and C. B., Owosso, Mich. Acetylene-gas generator. No. 1,353,455; Sept. 21; v. 278; p. 435.
Cook, Daniel, Lyman, Utah. Mousetrap. No. 1,337,044; Apr. 13; v. 273; p. 315.
Cook, David, Lynn Valley, British Columbia, Canada. Wire-rope carriage. No. 1,343,434; June 15; v. 275; p. 473.
Cook, Elmer E., Sharon Hill, assignor of one-half to D. Thorton, Ada, Pa. Six-wheel pivotal bogie-truck. No. 1,352,878; Sept. 14; v. 278; p. 263.
Cook, Ernest C., Chicago, Ill. Phonograph-horn. No. 1,329,377; Feb. 3; v. 271; p. 7.
Cook, Ernest W., *et al.* (See Gothner, John, assignor.)
Cook, F. B. (See Yarnell, John B., assignor.)
Cook, Frank R., Baxter Springs, Kans. Cuspidor. No. 1,362,474; Dec. 14; v. 281; p. 343.
Cook, Fred W., assignor to Chicago Hardware Foundry Company, North Chicago, Ill. Toilet-paper fixture. No. 1,354,170; Sept. 28; v. 278; p. 623.
Cook, Frederick, Chicago, Ill. Combination refrigerator and table. No. 1,351,097; Aug. 31; v. 277; p. 810.
Cook, Frederick B., New York, N. Y. Mail-chute. No. 1,338,975; May 4; v. 274; p. 60.
Cook, Frederick B., New York, N. Y. Mail-chute. No. 1,338,976; May 4; v. 274; p. 60.
Cook, Frederick D., Blairsville, Pa. Heating stove or furnace. No. 1,360,181; Nov. 23; v. 280; p. 734.
Cook, George A., Kansas City, Mo. Preparing creosote-oil solutions. No. 1,342,942; June 8; v. 275; p. 314.
Cook, George E., Brooklyn, N. Y. Aerial bomb. No. 1,348,036; June 8; v. 275; p. 332.
Cook, George R., assignor of one-half to A. O. Turner, Carrollton, Ga. Ditching and terracing device. No. 1,358,522; Nov. 9; v. 280; p. 318.
Cook, Gorman R., Alpine, Ala. Plow and cultivator converting attachment. No. 1,348,782; Aug. 3; v. 277; p. 125.
Cook, Gustave A. (See Ruff, F. J., and Ekins, assignors.)
Cook, Harry A., assignor of one-fourth to J. J. Manz, Dixon, Nebr. Subsoil-working means for tractor-wheels. No. 1,362,527; Dec. 14; v. 281; p. 354.
Cook, Harry L. (See Ross and Cook.)
Cook, Hugo, Perry township, Marion county, Ind. Motor-vehicle traction apparatus. No. 1,358,934; Nov. 16; v. 280; p. 446.
Cook, Irving A., Lancaster, Ohio, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Pulling-over machine. No. 1,356,516; Oct. 26; v. 279; p. 546.
Cook, Jason T., Astoria, Oreg. Fountain-toothbrush. No. 1,358,523; Nov. 9; v. 280; p. 319.
Cook, John C., New London, Conn. Holder for substances to be consumed by abrasion. No. 1,336,819; Apr. 13; v. 273; p. 271.
Cook, John H., Salt Lake City, Utah. Window-scaffold. No. 1,336,283; Apr. 6; v. 273; p. 109.
Cook, John J., Monroe, La. Picture-hanger. No. 1,361,830; Dec. 14; v. 281; p. 217.
Cook, Joseph S., Tacoma, Wash. Jack for automobiles. No. 1,348,627; Aug. 3; v. 277; p. 97.
Cook, Leander P., and J. D. Sims, Houston, Tex. Caskets. No. 1,342,324; June 1; v. 275; p. 139.
Cook, Lewis, Oak Park, Ill. Draft-gage. No. 1,361,142; Dec. 7; v. 281; p. 32.
Cook, Lewis L., Waterbury, Conn. Container attachment. No. 1,332,805; Mar. 2; v. 272; p. 120.
Cook, Louise. (See Olsen, J. G., and Cook.)
Cook, Marshall, assignor of one-half to G. J. Reidy, Chicago, Ill. Wrench. No. 1,361,518; Dec. 7; v. 281; p. 109.
Cook, R. M., and E. W. Harris, Tamaqua, assignors to Atlas Powder Company, Philadelphia, Pa. Ammonium perchlorate explosives. No. 1,357,764; Nov. 2; v. 280; p. 107.
Cook, Robert N., Aspinwall, Pa. Releasing crank mechanism for internal-combustion engines. No. 1,348,931; Aug. 10; v. 277; p. 207.
Cook, Stanley S. (See Parsons, C. A., and Cook.)
Cook, Stanley S. (See Parsons, C. A., Cook, and Aldis.)
Cook, Stanley S. (See Parsons, Cook, and Bennett.)
Cook, Stanley S. (See Parsons, C. A., Cook, and Douglas.)
Cook, Stanley W. (See Graybill, Bird M., assignor.)
Cook, Thomas E., and A. T. Freije, Rincon, N. Mex. Locks for tire-casings. No. 1,338,677; May 4; v. 274; p. 5.
Cook, Truman B., and L. Foster, Astoria, Oreg. Resilient base. No. 1,338,555; Apr. 27; v. 273; p. 744.
Cook, W., J. Butler, and J. Griffiths, Llanelly, Wales. Roof structure for furnaces. No. 1,355,115; Oct. 5; v. 279; p. 132.
Cook, Walter H., London, England. Combined nut and washer. No. 1,350,545; Aug. 24; v. 277; p. 642.
Cook, Wesley B., Jr., Weston, Mo. Reel. No. 1,333,162; Mar. 9; v. 272; p. 239.
Cook, Wilbur C., Waltham, Mass., assignor to The Keystone Watch Case Company, Philadelphia, Pa. Display-box for watches. No. 1,346,591; July 13; v. 276; p. 311.
Cook, Willard J., Stoughton, Wis., assignor to Moline Plow Company. Machine for spreading fertilizer. No. 1,328,618; Jan. 20; v. 270; p. 424.
Cook, Willard J., Des Moines, Iowa. Manure-spreader. No. 1,350,296; Aug. 24; v. 277; p. 592.
Cook, William A., Westfield, Mass. Gauntlet-glove. No. 1,328,078; Jan. 13; v. 270; p. 285.
Cook, William G., Bushkill, Pa. Composition for impregnating belts. No. 1,334,436; Mar. 23; v. 272; p. 586.
Cook, William J., Charlotte, N. C. Air-valve for steam-radiators. No. 1,337,045; Apr. 13; v. 273; p. 315.
Cook, William M., Warren, Ohio. Auto-jack. No. 1,348,851; Aug. 10; v. 277; p. 191.
Cook, William P., and H. O. Baker, assignors to The Baker Steam Motor Car and Manufacturing Co., Inc., Pueblo, Colo. Engine-frame. No. 1,336,729; Apr. 13; v. 273; p. 254.
Cook, William R. C., Seattle, Wash. Reinforced-concrete railway-tie. No. 1,362,561; Dec. 14; v. 281; p. 361.
Cook, William T., Bowling Green, Ohio. Building-block. No. 1,336,025; Apr. 6; v. 273; p. 61.
Cooke, Arthur B., assignor to Staso Laminated Slate Company, Chicago, Ill. Method and apparatus for treating roofing-grit. No. 1,337,822; Apr. 20; v. 273; p. 536.
Cooke, Clayton G., New Haven, Conn., assignor to American Linen and Fibre Company, Wilmington, Del. Flax-treating machine. No. 1,354,644; Oct. 5; v. 279; p. 39.

Digitized by Google

Cooke, Clayton G., New Haven, Conn., assignor to American Linen Fibre Company, Wilmington, Del. Flax-machine. No. 1,348,089; July 27; v. 276; p. 724.
Cooke, Fanny, *et al.* (See Cooke, William J., assignor.)
Cooke, Frank V., New Eagle, Pa. Vehicle-spring. No. 1,344,792; June 29; v. 275; p. 871.
Cooke, George F., assignor to British Automobile Equipment Company Limited, London, England. Method and apparatus for manufacturing radiator-tubes. No. 1,339,104; May 4; v. 274; p. 85.
Cooke, Neil A. (See Miller, William L., and E. A. F., Jr., assignors.)
Cooke, Sidney V. (See Ionides, A. C., Jr., and Cooke.)
Cooke, William A. (See Bottle, Edward K., assignor.)
Cooke, William J., assignor of one-tenth to Christopher Davis, one-tenth to W. J. Foote, one-tenth to W. Pearce, one-tenth to F. Cooke, and one-tenth to T. Ashton, Auckland, New Zealand. Rotary razor-strop. No. 1,357,956; Nov. 9; v. 280; p. 205.
Cookingham, De Witt C., Lakewood, assignor to The Baker R. & L. Company, Cleveland, Ohio. Controlling mechanism for motor-vehicles. No. 1,359,577; Nov. 23; v. 280; p. 615.
Cooley, Frank L., Brooklyn, N. Y. Refillable cartridge-fuse. No. 1,354,284; Sept. 28; v. 278; p. 646.
Cooley, Frank L., Brooklyn, N. Y. Refillable cartridge-fuse. No. 1,362,230; Dec. 14; v. 281; p. 297.
Cooley, Fred W., Minneapolis, Minn. Tone-modifier for talking-machines. No. 1,349,604; Aug. 17; v. 277; p. 413.
Cooley, Fred W., Minneapolis, Wis. Tone-modifier for talking-machines. No. 1,352,115; Sept. 7; v. 278; p. 78.
Cooley, George T., Joplin, Mo. Jig for ore-dressing. No. 1,334,841; Mar. 23; v. 272; p. 662.
Cooley, Henry B., Kensington, Conn., assignor to The American Paper Goods Company, Montclair, N. J. Folding-machine. No. 1,332,288; Mar. 2; v. 272; p. 22.
Cooley, Henry B., Kensington, Conn., assignor to The American Paper Goods Company, Montclair, N. J. Machine for paraffining paper cups. No. 1,334,017; Mar. 16; v. 272; p. 461.
Cooley, Henry B., assignor to The American Paper Goods Company, Kensington, Conn. Cartridge-belt. No. 1,341,111; May 25; v. 274; p. 668.
Cooley, James F., Richmond, Calif. Self-assisting apparatus for invalids. No. 1,350,297; Aug. 24; v. 277; p. 592.
Coolidge, William D., Schenectady, N. Y., assignor to General Electric Company. X-ray apparatus. No. 1,328,495; Jan. 20; v. 270; p. 402.
Coolidge, William D., Schenectady, N. Y., assignor to General Electric Company. X-ray transformer. No. 1,337,885; Apr. 20; v. 273; p. 548.
Coolidge, William D., assignor to General Electric Company, Schenectady, N. Y. X-ray tube. No. 1,355,126; Oct. 12; v. 279; p. 187.
Cooling, Arthur B., assignor to Superior Machine Company, Sterling, Ill. Driving mechanism for washing-machines. No. 1,340,328; May 18; v. 274; p. 447.
Coombs, Daniel L. F., Kansas City, Mo. Carbureter. No. 1,336,070; Apr. 6; v. 273; p. 69.
Coombs, Frank E., San Francisco, Calif. Sulfite-waste-liquor preparation and making same. No. 1,327,862; Jan. 13; v. 270; p. 245.
Coombs, Frank E., assignor to J. F. Judge, San Francisco, Calif. Food preparation and making same. No. 1,363,193; Dec. 21; v. 281; p. 585.
Coonan, John F. (See Wall, J. F., and Coonan.)
Cooney, John T., Providence, R. I. Shaving-brush. No. 1,338,424; Apr. 27; v. 273; p. 719.
Coons, Alonzo, Wappingers Falls, N. Y. Clamp. No. 1,353,632; Sept. 21; v. 278; p. 471.
Coons, Henry R., assignor, by mesne assignments, to National Metal Edge Box Company, Philadelphia, Pa. Box. No. 1,347,839; July 27; v. 276; p. 674.
Cooper, Albert N., assignor to The Cooper-Case-Anderson Company, Filer, Idaho. Nozzle for orchard-heaters. No. 1,363,720; Dec. 28; v. 281; p. 677.
Cooper, Albert R., Findlay, Ohio. Thermo-electric arch-support. No. 1,344,581; June 22; v. 275; p. 764.
Cooper, Allyn R., Marshalltown, Iowa. Muffler cut-out. No. 1,358,673; Nov. 9; v. 280; p. 348.
Cooper, Angus B. (See Deever, Frederick P., assignor.)
Cooper, Arthur L., Los Angeles, Calif. Automatic draw-bar coupling for vehicles. No. 1,337,391; Apr. 20; v. 273; p. 454.
Cooper, Arthur L., Los Angeles, Calif. Adjustable draft-rigging for tractors. No. 1,360,502; Nov. 30; v. 280; p. 866.
Cooper, Arthur V. (See Butler, Walter A., assignor.)
Cooper-Case-Anderson Company, The. (See Cooper, Albert N., assignor.)
Cooper, Charles W. (See Morris, Pratt C., assignor.)
Cooper, Clarence S., Hondo, Calif. Sanitary mattress. No. 1,339,880; May 11; v. 274; p. 306.
Cooper, Cullen B., *et al.* (See Lambeth, Acey L., assignor.)
Cooper, Daniel M., deceased; G. B. Caudle, executor, Rochester, N. Y., assignor to The American Laundry Machinery Company, Norwood, Ohio. Garment-pressing machine. No. 1,332,711; Mar. 2; v. 272; p. 102.
Cooper, Edmund B. (See Hollister, G. S., and Cooper.)
Cooper, Edward, Cheyenne, Wyo. Means for locking electric switches on automobiles. No. 1,348,090; July 27; v. 276; p. 724.
Cooper, Ellis W., assignor to Underwood Typewriter Company, New York, N. Y. Means for producing manifolding-webs. No. 1,330,786; Feb. 17; v. 271; p. 869.
Cooper, Ellis W., assignor to Underwood Typewriter Company, New York, N. Y. Manifolding-web. No. 1,362,281; Dec. 14; v. 281; p. 297.
Cooper, Erwin C., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,358,935; Nov. 16; v. 280; p. 446.
Cooper, Fred. (See Adams, Otis, assignor.)
Cooper, George F., Detroit, Mich. Display-rack. No. 1,351,994; Sept. 7; v. 278; p. 56.
Cooper, George B., Cleveland, Ohio. Tire-vulcanizer. No. 1,346,483; July 13; v. 276; p. 290.
Cooper, Hamilton A., assignor of one-half to C. A. Briggs, Toledo, Ohio. Ladder. No. 1,346,299; July 13; v. 276; p. 254.
Cooper Hewitt Electric Company. (See Barrett, Thomas A., assignor.)
Cooper Hewitt Electric Company. (See Keyes, Frederick G., assignor.)
Cooper, Howell C. (See Garner, J. B., and Cooper.)
Cooper, Hugh S., Cleveland, Ohio, assignor, by mesne assignments, to Zircon Tool & Alloy Corporation. Alloy. No. 1,350,359; Aug. 24; v. 277; p. 605.
Cooper, Isaac N., Fort Worth, Tex. Fire-extinguisher for oil-tanks and the like. No. 1,349,048; Aug. 10; v. 277; p. 230.
Cooper, Isidor, Brooklyn, assignor to Otis-Flagg Corporation, New York, N. Y. Hose-clamp. No. 1,340,937; May 25; v. 274; p. 634.
Cooper, Isidor, Brooklyn, assignor to Otis-Flagg Corporation, New York, N. Y. Hose-clamp and making same. No. 1,340,938; May 25; v. 274; p. 634.
Cooper, Isidor, Brooklyn, N. Y. Clamp. No. 1,362,784; Dec. 21; v. 281; p. 456.
Cooper, James, Youngstown, Ohio. Heating-furnace. No. 1,362,232; Dec. 14; v. 281; p. 297.
Cooper, James J. G., Jacksonville, Fla. Fishhook. No. 1,333,101; Mar. 9; v. 272; p. 228.
Cooper, Jehangir M., Bombay, India. Printing on paper, cloth, and other material. No. 1,359,034; Nov. 16; v. 280; p. 464.
Cooper, John A., Youngstown, Ohio. Ready-formed concrete step. No. 1,360,890; Nov. 30; v. 941.
Cooper, John J., Stamford, Conn. Cabinet for an exercising apparatus. No. 1,336,774; Apr. 13; v. 273; p. 262.
Cooper, Jowel C., Hempstead, Tex. Means for automatically inflating pneumatic tires. No. 1,358,524; Nov. 9; v. 280; p. 319.
Cooper, Leslie J., Los Angeles, Calif. Auxiliary-spark-lever control. No. 1,349,944; Aug. 17; v. 277; p. 478.
Cooper, McKee, Asheville, N. C. Rotary engine. No. 1,332,427; Mar. 2; v. 272; p. 49.
Cooper, McKee, Asheville, N. C., assignor of one-half to R. R. Reynolds, New York, N. Y. Air-brake. No. 1,332,428; Mar. 2; v. 272; p. 49.
Cooper, Nathan S., Phil Campbell, Ala. Mowing-machine. No. 1,333,540; Mar. 9; v. 272; p. 310.
Cooper, Richard B., New York, N. Y., assignor to Fiske & Company, Incorporated. Hollow channel-brick and wall construction. No. 1,347,533; July 27; v. 276; p. 612.
Cooper, Samuel S., Landgraff, W. Va. Trolley-pole head. No. 1,353,381; Sept. 21; v. 278; p. 420.
Cooper, Simon, Brooklyn, N. Y. Packaging machinery. No. 1,333,901; Mar. 16; v. 272; p. 488.
Cooper, Simon, Brooklyn, N. Y., assignor to The Diamond Match Company, Chicago, Ill. Labeling-machine. No. 1,351,024; Aug. 31; v. 277; p. 796.
Cooper, Simon, Brooklyn, N. Y., assignor to The Diamond Match Company, Chicago, Ill. Package-wrapping machine. No. 1,351,025; Aug. 31; v. 277; p. 797.
Cooper, Thomas G., Jefferson City, Mo. Printing attachment for photoprinting-machines. No. 1,363,089; Dec. 21; v. 281; p. 515.
Cooper, Thomas L. R., London, England. Combined motor-pump. No. 1,347,732; July 27; v. 276; p. 653.
Cooper, William F., Norwalk, Ohio. Valve for player-piano feeders. No. 1,355,941; Oct. 19; v. 279; p. 886.
Cooper, William F., New Orleans, La. Cotton-picker. No. 1,351,378; Aug. 31; v. 277; p. 866.
Cooper, William G., Sapulpa, Okla. Composition for application to razor-strops. No. 1,344,865; June 29; v. 275; p. 884.
Cooperman, Louis, New York, N. Y. Crown-articulator. No. 1,345,433; July 6; v. 276; p. 21.
Cooperman, Rachel, Chicago, Ill. Necktie-fastener. No. 1,336,618; Apr. 13; v. 273; p. 233.
Coopersmith, Rudolph, assignor to The J. H. Sherrard Manufacturing Company, Limited, Montreal, Quebec, Canada. Foot-rail for folding-beds. No. 1,363,956; Dec. 28; v. 281; p. 723.
Coors, Grover C., Golden, Colo. Apparatus for forming spark-plug insulators. No. 1,362,926; Dec. 21; v. 281; p. 483.
Coote, John M., Elizabeth, N. J. Elevator safety-contact. No. 1,353,148; Sept. 21; v. 278; p. 375.

Digitized by Google

Coover, Harry S., Philadelphia, Pa. Game apparatus. No. 1,337,691; Apr. 20; v. 273; p. 511.
Cope, Charles G., Pittsburgh, Pa. Auxiliary gripper. No. 1,350,140; Aug. 17; v. 277; p. 516.
Cope, Frank T. (See Baily, T. F., and Cope.)
Cope, Joseph H., Denver, Colo. Spring pull-back for hay-stackers. No. 1,330,304; Feb. 10; v. 271; p. 210.
Cope, Willard C., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Detonating fuse. No. 1,341,705; June 1; v. 275; p. 18.
Copeland, Edmund J., Detroit, Mich., assignor to Kelvinator Corporation, Wilmington, Del. Refrigerating apparatus. No. 1,329,348; Jan. 27; v. 270; p. 589.
Copeland, Eugene A. (See Hobbs, C. W., and Copeland.)
Copeland, James P., assignor to The Hydraulic Steel Company, Cleveland, Ohio. Vehicle-wheel. No. 1,357,615; Nov. 2; v. 280; p. 78.
Copeland, James P., Vinemont, assignor of one-half to William E. James, Cullman, Ala. Plow and cultivator. No. 1,363,458; Dec. 28; v. 281; p. 626.
Copeman Electric Stove Company. (See Copeman, Lloyd G., assignor.)
Copeman, Lloyd G., Flint, Mich., assignor to Copeman Electric Stove Company. Heating apparatus. No. 1,366,552; Apr. 18; v. 273; p. 220.
Copeman, Lloyd G., Flint, Mich. Toaster. No. 1,347,013; July 20; v. 276; p. 454.
Copeman, Lloyd G., assignor to Copeman Electric Stove Company, Flint, Mich. Adjustable thermostat. No. 1,349,364; Aug. 10; v. 277; p. 293.
Copeman, Lloyd G., Flint, Mich. Toaster. No. 1,356,042; Oct. 19; v. 279; p. 405.
Copeman, Lloyd G., Flint, Mich. Tool-holder. No. 1,361,021; Dec. 7; v. 281; p. 8.
Copetta, César, Paris, France, assignor of one-half to P. J. De Varebeke, Westminster, England. Means for supplying liquids. No. 1,335,093; Mar. 30; v. 272; p. 770.
Copithorn, Walter E., Natick, Mass. Demountable rim. No. 1,354,468; Oct. 5; v. 279; p. 5.
Coplan, A. H., and A. Bailliot, Hull, Quebec, Canada. Plate for grinding-mills. No. 1,360,725; Nov. 30; v. 280; p. 909.
Copland, James P., South Euclid, assignor to The Elyria Iron and Steel Company, Cleveland, Ohio. Furnace and lining therefor. No. 1,341,299; May 25; v. 274; p. 704.
Copley, Almon W., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of distribution for railway feeder-circuits. No. 1,340,365; Aug. 10; v. 277; p. 293.
Copley, Almon W., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Lightning-arrester. No. 1,361,967; Dec. 14; v. 281; p. 245.
Copley, John W., and A. C. Thornton, assignors to The Blackburn Aeroplane and Motor Company, Limited, Leeds, England. Maintaining the contents of containers, cases, reservoirs, or the like, carried by aircraft, at a required temperature. No. 1,359,967; Nov. 23; v. 280; p. 692.
Copley Motor Devices Co. (See Crane, Joshua, assignor.)
Copony, Alfred, assignor to Copony Auto-Loading Company, Detroit, Mich. Decking apparatus. No. 1,336,201; Apr. 6; v. 273; p. 94.
Copony Auto-Loading Company. (See Copony, Alfred, assignor.)
Copp, Earl F., Montclair, N. J. Tone-modifier. No. 1,354,171; Sept. 28; v. 278; p. 623.
Copp, Harold. (See Copp, Jonas, assignor.)
Copp, Jonas, assignor of one-half to H. Copp, Miami, Ariz. Tire-protector. No. 1,362,475; Dec. 14; v. 281; p. 343
Coppage, Benjamin D., Wilmington, Del. Drum winding-machine. No. 1,342,532; June 8; v. 275; p. 232.
Coppage, Benjamin D., Wilmington, Del. Driving mechanism for paper-making machines. No. 1,345,479; July 6, v. 276; p. 30.
Coppage, Benjamin D., Wilmington, Del. Paper-drying machine. No. 1,361,447; Dec. 7; v. 281; p. 95.
Copper-Die Horseshoe Company. (See Garvin, Cyrus M., assignor.)
Copper Products Company. (See Merritt, Matthew M., assignor.)
Coppock, Lambert, Berlin, Oreg. Wagon-frame. No. 1,342,254; June 1; v. 275; p. 126.
Coppus Engineering and Equipment Company. (See Coppus, F. H. C., and Varney, assignors.)
Coppus, Frans H. C., and W. H. Varney, assignors to Coppus Engineering and Equipment Company, Worcester, Mass. Bearing for turbine-driven blowers. No. 1,355,652; Oct. 12; v. 279; p. 289.
Copthorne, Howard N., Chicago, Ill., and A. L. Tannehill, Gary, Ind. Producing artificial resin. No. 1,353,220; Sept. 21; v. 278; p. 389.
Corado, Edward C., Montreal, Quebec, Canada. Lamplighter. No. 1,334,522; Mar. 23; v. 272; p. 601.
Corbett, Harry A., assignor to Brett Process Screen Company, Inc., New York, N. Y. Producing photographic screens for half-tone work. No. 1,338,492; Apr. 27; v. 273; p. 732.
Corbett, Jay R. (See Settle, William L., assignor.)
Corbi, Joseph L., assignor of one-third to F. K. Heindrich, and one-third to D. S. Margolis, Washington, D. C. Fastening device for collars. No. 1,326,915; Jan. 6; v. 270; p. 6.
Corbin, Walter F., Grand Rapids, Mich. Implement for kinking fire-hose. No. 1,336,891; Apr. 13; v. 273; p. 285.
Corblin, Henri, Paris, France. Diaphragm-compressor. No. 1,332,806; Mar. 2; v. 272; p. 120.
Corbould, William H., Selwyn, Queensland, Australia. Calcining ores. No. 1,358,293; Nov. 9; v. 280; p. 271.
Corby, Robert L., assignor, by mesne assignments, to The Fleischmann Company, Chevy Chase, Md. Composition of materials adapted for use in bread-making. No. 1,355,127; Oct. 12; v. 279; p. 187.
Corby, Robert L., assignor, by mesne assignments, to The Fleischmann Company, Washington, D. C. Manufacturing dough ingredient. No. 1,355,128; Oct. 12; v. 279; p. 187.
Corby, Robert L., assignor, by mesne assignments, to The Fleischmann Company, Washington, D. C. Producing materials for bread-making and composition of materials for use as a bread-dough ingredient. No. 1,355,129; Oct. 12; v. 279; p. 187.
Corby, Sidney B., *et al.* (See Reed, Lyman C., assignor.)
Corcoran, Cornelius B., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,351,327; Aug. 31; v. 277; p. 857.
Corcoran, Margaret J., Scranton, Pa. Egg-washer. No. 1,340,020; May 11; v. 274; p. 332.
Corcoran, Thos. J., Lamp Company, The. (See Kuen, Eugene A., assignor.)
Cordell, Frank N., St. Louis, Mo. Tire-abrader. No. 1,349,366; Aug. 10; v. 277; p. 298.
Cordell, James W., Talladega, Ala. Wheel-rim. No. 1,335,662; Mar. 30; v. 272; p. 876.
Corder, Waitman D., Philippi, W. Va. Suspender. No. 1,351,553; Aug. 31; v. 277; p. 901.
Corder, Waitman D., Philippi, W. Va. Suspenders. No. 1,356,341; Oct. 19; v. 279; p. 466.
Cordery, Charles. (See Cordery, William and C.)
Cordery, William and C., Toledo, Ohio. Wall-plug. No. 1,340,752; May 18; v. 274; p. 528.
Cordes, August W., New York, N. Y. Draft-checking device. No. 1,327,653; Jan. 13; v. 270; p. 205.
Cordes, Frank, Pittsburgh, Pa. Bottom-pour ladle. No. 1,338,001; Apr. 27; v. 273; p. 640.
Corduan, Adolph, Roselle Park, N. J. Needle-threader for sewing-machines. No. 1,350,592; Aug. 24; v. 277; p. 652.
Core, Elijah B., Yonkers, N. Y. Photographic-negative-developing frame. No. 1,348,153; Aug. 3; v. 277; p. 4.
Corell, Clifton B., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,346,367; July 13; v. 276; p. 267.
Corell, Clifton B., assignor to Underwood Computing Machine Company, New York, N. Y. Computing-machine. No. 1,349,561; Aug. 17; v. 277; p. 404.
Corell, Clifton B., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,359,231; Nov. 16; v. 280; p. 500.
Corey, James A., London, England. Intaglio printing-plate. No. 1,339,741; May 11; v. 274; p. 280.
Cork Roller Corporation. (See Bosworth, William C., assignor.)
Corlett, Robert S., Evanston, assignor, by mesne assignments, to E. E. Berthold and G. W. Berthold, Chicago, Ill. Automatic reversing mechanism. No. 1,358,294; Nov. 9; v. 280; p. 271.
Corlett, Robert S., Evanston, assignor, by mesne assignments, to E. E. Berthold and G. W. Berthold, Chicago, Ill. Automatic reversing mechanism. No. 1,358,295; Nov. 9; v. 280; p. 272.
Corley, Augustus N. (See McCarty, Thomas A., assignor.)
Corley, Peter, Brooklyn, N. Y. Ash-sifter. No. 1,348,783; Aug. 3; v. 277; p. 126.
Corliss, Cullen D., assignor to Michigan Lubricator Company, Detroit, Mich. Grease-cup. No. 1,347,472; July 20; v. 276; p. 543.
Corliss, Cyrus, Boston, Mass. Time-computing apparatus. No. 1,347,014; July 20; v. 276; p. 454.
Corliss, Harry P. (See Callow, J. M., and Corliss.)
Corliss, Marion P., executrix. (See Callow, J. M., and Corliss.)
Corliss, William L., New York, N. Y., Combustion-engine. No. 1,332,807; Mar. 2; v. 272; p. 120.
Corn, John A., Crawfordsville, Ind. Wall construction. No 1,334,842; Mar. 23; v. 272; p. 668.
Cornelius, George T., Monessen, Pa. Dental toilet-case. No. 1,336,345; Apr. 6; v. 273; p. 121.
Cornelius, Logan, Hardy, Okla. Fencepost. No. 1,336,680; Apr. 13; v. 273; p. 245.
Cornelius, William C., Cullman, Ala. Pump. No. 1,330,621; Feb. 10; v. 271; p. 269.
Cornell, Alfred, Tonbridge, England. Device for use in sharpening domestic and other knives. No. 1,342,275; June 1; v. 275; p. 130.
Cornell, Archer, Johannesburg, Transvaal, South Africa. Plow, harrow, and other similar agricultural implement or machine. No. 1,329,582; Feb. 3; v. 271; p. 45.
Cornell, Arthur M., Chicago, Ill. Guard-rail. No. 1,337,544; Apr. 20; v. 273; p. 483.
Cornell, Charles H., Valentine, Nebr. License-card. No. 1,346,005; July 6; v. 276; p. 134.

Digitized by Google

Alphabetical list of patentees—Continued.

Cornell, Elmer E., St. Louis, Mo. Punching-shears. No. 1,344,488; June 22; v. 275; p. 746.
Cornell, Harry L., Binghamton, N. Y. Electrical signal system for automobiles. No. 1,341,735; June 1; v. 275; p. 24.
Cornett, Gardner, Bronxville, N. Y., and C. W. Stancliffe, Toronto, Ontario, Canada, assignors to Pneumercator Company, New York, N. Y. Trap for manometer-tubes. No. 1,354,023; Sept. 28; v. 278; p. 592.
Cornett, William P., *et al.* (See Roberts, John W., assignor.)
Corning, Douglas D., Lynn, Mass. Automatic material-dispensing device. No. 1,245,350; July 6; v. 276; p. 5.
Corning Glass Works. (See Bailey, James, assignor.)
Corning Glass Works. (See Churchill, William, assignor.)
Corning Glass Works. (See Gage, Henry P., assignor.)
Corning Glass Works. (See Gage, H. P., and Churchill, assignors.)
Corning Glass Works. (See Said, Jesse M., assignor.)
Corning Glass Works, The. (See Gray, David E., assignor.)
Corning, Henry W., Cleveland, Ohio. Locking mechanism. No. 1,337,545; Apr. 20; v. 273; p. 483.
Cornish, Harry S., Chicago, Ill. Liquid mixing and delivery apparatus. No. 1,334,523; Mar. 23; v. 272; p. 601.
Cornish, Harry S., Chicago, Ill. Liquid mixing and delivery apparatus. No. 1,347,576; July 27; v. 276; p. 621.
Cornish, Philip, Leytonstone, England. Fixed seat for use in cinemas, theaters, and the like. No. 1,351,995; Sept. 7; v. 278; p. 56.
Cornu, Ami, La Chaux-de-Fonds, Switzerland. Clasp. No. 1,350,785; Aug. 24; v. 277; p. 688.
Cornu, Marie J., Paris, France. Mercury-vapor lamp. No. 1,343,037; June 8; v. 275; p. 333.
Cornwall, Charles. (See Deming, W. L., and Cornwall.)
Corona Typewriter Company. (See De Clamecy, Philippi, assignor.)
Corona Typewriter Company. (See De Pue, Stanley R., assignor.)
Corona Typewriter Company, Inc. (See Moser, Albert F., assignor.)
Corona Typewriter Company. (See Petermann, Otto, assignor.)
Corona Typewriter Company. (See Tucker, Benjamin W., assignor.)
Corpee, Adolph, and A. Kraft, Oakland, Calif. Turntable. No. 1,354,285; Sept. 28; v. 278; p. 646.
Corrall, Herbert, Parkview, Helensburgh, Scotland, assignor to The Singer Manufacturing Company. Pantograph equipment for grouped embroidering-machines. No. 1,328,821; Jan. 27; v. 270; p. 490.
Corrall, Herbert, Helensburgh, and J. Heggie, Clydebank, Scotland, assignors to The Singer Manufacturing Company. Hemming and trimming attachment for sewing-machines. No. 1,339,742; May 11; v. 274; p. 280.
Corrigan, Clyde S., Norwood, Ohio. Mining-machine. No. 1,351,892; Sept. 7; v. 278; p. 36.
Corrigan, Edward J., Newport News, Va. Curtain and shade hanger. No. 1,343,997; June 22; v. 275; p. 649.
Corrigan, Thomas J. (See Scaramuzzi, Antony T., assignor.)
Corsaw, Harry B., Springfield, Oreg. Trap. No. 1,330,622; Feb. 10; v. 271; p. 270.
Corseplus, George W., Downey, Idaho. Sled-runner attachment for automobiles. No. 1,350,069; Aug. 17; v. 277; p. 502.
Corsi, John, Detroit, Mich. Valve-lifter. No. 1,336,202; Apr. 6; v. 273; p. 94.
Corson, David, Jr., Mount Union, Pa. Sea-dirigible. No. 1,350,211; Aug. 17; v. 277; p. 530.
Corson, William L., Alameda, assignor to Union Gas Engine Company, Oakland, Calif. Engine-cylinder construction. No. 1,332,888; Mar. 9; v. 272; p. 187.
Corte, Camillo, Rome, Italy. Multiple wheel for road-vehicles. No. 1,351,996; Sept. 7; v. 278; p. 56.
Cortella, Alfonso, Nice, France. Combined sound-reproducing and moving-picture machine. No. 1,331,049; Feb. 17; v. 271; p. 420.
Cortella, Alfonso, Philadelphia, Pa. Sound recording and reproducing machine. No. 1,341,011; May 25; v. 274; p. 649.
Cortés, Salustio V., Valparaiso, Chile. Propulsion of ships, boats, and flying-machines. No. 1,360,182; Nov. 23; v. 280; p. 734.
Cortese, Emilio M. Crespi, and A. Squassi, Milan, Italy. Rotary pulverizer. No. 1,339,499; May 11; v. 274; p. 234.
Cortese, Frank, Chicago, Ill. Combined supporting and elevating device for emblems. No. 1,334,890; Mar. 23; v. 272; p. 672.
Corthesy, Jules H., assignor of one-half to S. T. S. Castelli, London, England. Means to generate gas from coal and analogous substances. No. 1,360,503; Nov. 30; v. 280; p. 866.
Corwin, Allen W., Wellsville, N. Y. Trailer-coupling. No. 1,351,098; Aug. 31; v. 277; p. 810.
Corwin, George W., Yonkers, N. Y. Security coupling-link. No. 1,354,805; Oct. 5; v. 279; p. 72.
Cory, Charles, & Son. (See Wood, Frank W., assignor.)
Cory, Harvey, Long Beach, assignor to E. F. Kline, Los Angeles, Calif. Air-control device for the air-inlets of carbureters. No. 1,343,311; June 15; v. 275; p. 449.
Coryell, William C., assignor to The General Fireproofing Company, Youngstown, Ohio. Machine for making building fabric. No. 1,353,456; Sept. 21; v. 278; p. 435.
Coryell, William C., assignor to The General Fireproofing Company, Youngstown, Ohio. Building fabric. No. 1,354,024; Sept. 28; v. 278; p. 593.
Coryell, William C., assignor to The General Fireproofing Company, Youngstown, Ohio. Stone-surfacing fibrous materials. No. 1,354,025; Sept. 28; v. 278; p. 593.
Cosby, Luther F., Dallas, Tex. Auto steering-jack. No. 1,342,276; June 1; v. 275; p. 130.
Coscia, Charles P., Pittsburgh, Pa. Shoe. No. 1,351,414; Aug. 31; v. 277; p. 874.
Cosey, Henry M., Flint, Mich. Switch-operating mechanism. No. 1,350,786; Aug. 24; v. 277; p. 689.
Cosgray, Mark C., assignor to The Matthews Engineering Company, Sandusky, Ohio. Electric system. No. 1,350,437; Aug. 24; v. 277; p. 620.
Cosgrove, John W., Medford, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-building machine. No. 1,331,624; Feb. 24; v. 271; p. 547.
Cosgrove, John W., Medford, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cementing-machine. No. 1,350,298; Aug. 24; v. 277; p. 598.
Cosgrove, John W., Medford, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sole-holder. No. 1,353,892; Sept. 28; v. 278; p. 566.
Cosgrove, John W., Medford, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sole-holder. No. 1,363,314; Dec. 28; v. 281; p. 599.
Cosgrove, Joseph J., Rutherford, N. J. Hollow ceramic building-block. No. 1,360,183; Nov. 23; v. 280; p. 735.
Coshow, Oliver P., *et al.* (See Sanders, John F., assignor.)
Cosler, Arthur S., New York, N. Y. System for separating fluid substances. No. 1,327,944; Jan. 13; v. 270; p. 260.
Cosme, Carlos, Corona, N. Y. Cuspidor-cleaner. No. 1,342,739; June 8; v. 275; p. 273.
Cosmos Engineering Company, *et al.* (See Butler, Leonard F. G., assignor.)
Cosmos Engineering Company Limited, The. (See Fedden, A. H. R., and Butler, assignors.)
Coss, Frank C. (See Hipkins, J. H., and Coss.)
Cossitt, Franklin M., Binghamton, N. Y., assignor to Ansco Company, Binghamton, N. Y., a Corporation of New York. Camera. No. 1,363,090; Dec. 21; v. 281; p. 515.
Cossitt, Malcolm L., Oakland, Calif., assignor to Manifold Impressions Corporation, Carson City, Nev. Manifolding medium. No. 1,353,149; Sept. 21; v. 278; p. 375.
Costa, Anthony, East Cleveland, assignor to The Gravity Carbureter Company, Cleveland, Ohio. Oiling system. No. 1,350,643; Aug. 24; v. 277; p. 661.
Costa, Gaetano, and A. Ciccone, Providence, R. I. Stop-signal for automobiles. No. 1,331,002; Feb. 17; v. 271; p. 411.
Costella, William J., Santa Cruz, Calif. Bottle. No. 1,362,233; Dec. 14; v. 281; p. 297.
Costello, John C. (See Moross and Costello.)
Costello, John T., Pittsburgh, Pa. Separator. No. 1,359,578; Nov. 23; v. 280; p. 615.
Costello, Joseph, New York, N. Y. Necktie. No. 1,349,187; Aug. 10; v. 277; p. 257.
Costello, Thomas J., Warren, Ohio, assignor to George J. Hagan Company, Pittsburgh, Pa. Annealing-furnace. No. 1,336,681; Apr. 13; v. 273; p. 245.
Costello, Thomas J., Trumbull, Ohio, assignor to George J. Hagan Company Pittsburgh, Pa. Annealing-furnace. (Reissue.) No. 15,011; Dec. 21; v. 281; p. 539.
Costelloe, Clinton, and S. G. Stoll, El Paso, Tex. Automobile-radiator. No. 1,343,352; June 15; v. 275; p. 457.
Costigan, Charles A., Oakland, Calif. Dispensing apparatus. No. 1,348,269; Aug. 3; v. 277; p. 28.
Costigan, Thomas. (See Bronder, Gaston A., assignor.)
Costimeter Company, The. (See Liner, Joseph I., assignor.)
Costmeter Company. (See Fowler, Edward E., assignor.)
Costovici, Nicolas B., Lausanne, Switzerland. Device for quickly tracing circles of given diameters. No. 1,341,457; May 25; v. 274; p. 735.
Coté, Alexis. (See Rousseau, Joseph H., and Coté, A.)
Cote, George F., Fall River, Mass. Crank-shaft. No. 1,363,957; Dec. 28; v. 281; p. 723.
Coté, Theodore, Duluth, Minn. Fishhook. No. 1,338,856; May 4; v. 274; p. 38.
Cothran, John T., Spartanburg, S. C. Lifting-rod collar for spinning-frames. No. 1,353,633; Sept. 21; v. 278; p. 471.
Cotoli, Antonio, Habana, Cuba. Device for making multicolored tiles and the like. No. 1,328,367; Jan. 20; v. 270; p. 377.
Cotoli, Antonio, Habana, Cuba. Method of and means for distributing pigments. No. 1,328,368; Jan. 20; v. 270; p. 377.

Digitized by Google

Cott-a-lap Co. (See Stirling, Charles P., assignor.)
Cott, Charles M., Richmond, Va. Household safety-deposit box. No. 1,340,377; May 18; v. 274; p. 457.
Cottard, Jean B., Paris, France. Condensing apparatus. No. 1,337,200; Apr. 20; v. 273; p. 418.
Cotten, Shepard M., Phoenix, Ariz. Method and apparatus for constructing concrete piles. No. 1,342,424; June 8; v. 275; p. 212.
Cotter, Catherine L., Kansas City, Mo. Animal toy. No. 1,363,570; Dec. 28; v. 281; p. 648.
Cotter, Daniel J. (See Barry, James, assignor.)
Cottle, Charles A., Edwardsville, Pa. Carrier for explosives. No. 1,346,636; July 13; v. 276; p. 320.
Cotton, Alfred, and L. F. Koellner, Hartford, Conn. Sheet-metal wheel. No. 1,352,723; Sept. 14; v. 278; p. 231.
Cotton, Charles S., Ingram, assignor to Pressed Steel Car Company, Pittsburgh, Pa. Draft-gear. No. 1,360,184; Nov. 23; v. 280; p. 735.
Cotton, Clayborn B., Dardanelle, Ark. Method and apparatus for ginning cotton. No. 1,341,168; May 25; v. 274; p. 679.
Cotton, James H. (See Burner, W. L., Cotton, and Booth.)
Cotton, James H. (See Martin, C. C., and Cotton.)
Cotton, Walter H., Chicago, Ill. Spark-plug. No. 1,340,526; May 18; v. 274; p. 485.
Cottrel, William E., Pemberton, Ohio. Hog-feeder. No. 1,358,525; Nov. 9; v. 280; p. 319.
Cottrell, C. B., & Sons Company. (See Barber, Howard M., assignor.)
Cottrell, C. B., and Sons Company. (See Knowles, Bernard D., assignor.)
Cottrell, C. B., & Sons Company. (See Leonard, Henry E., assignor.)
Cottrell, Edgar H., Westerly, R. I. Newspaper. No. 1,341,633; June 1; v. 275; p. 4.
Cottrell, Edgar H., Westerly, R. I. Newspaper. No. 1,341,634; June 1; v. 275; p. 4.
Cottrell, John J. (See Mackie, J., and Cottrell.)
Cottrell, Leon A., and W. B. Holloway, Washington, D. C. Signal for motor-vehicles. No. 1,329,957; Feb. 3; v. 271; p. 115.
Cottrell, William, Los Angeles, Calif. Concentrator. No. 1,332,863; Mar. 2; v. 272; p. 131.
Cottrell, William, Los Angeles, Calif. Panning-movement. No. 1,332,864; Mar. 2; v. 272; p. 131.
Cottrell, William, Chicago, Ill. Fuse-plug. No. 1,355,314; Oct. 12; v. 279; p. 224.
Cottrell, William, Riverside, assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Air-blast pressure attachment for presses. No. 1,337,000; Apr. 13; v. 273; p. 306.
Cottrell, William, assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Fuse-plug. No. 1,355,313; Oct. 12; v. 279; p. 224.
Cottrell, William P., Los Angeles, Calif. Panning-movement. No. 1,363,495; Dec. 28; v. 281; p. 634.
Couch, Charles C. (See Borcherdt, Raymond, assignor.)
Couch, Elbert L., assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Washing-machine. No. 1,332,712; Mar. 2; v. 272; p. 103.
Couch, Elbert L., Farmington, and G. H. Conners, Hartford, Conn. Cigar. No. 1,349,147; Aug. 10; v. 277; p. 249.
Couch, Forrest J., assignor to Rochester Washing Machine Corporation, Rochester, N. Y. Shock-absorbing clutch. No. 1,346,078; July 6; v. 276; p. 149.
Couch, James F., Derry, N. H. Structure device. No. 1,332,381; Mar. 2; v. 272; p. 40.
Couchmin, Michel, New York, N. Y. Swimming apparatus. No. 1,361,687; Dec. 7; v. 281; p. 142.
Coughlin, Francis R. (See Davis, Frank H., assignor.)
Coughlin, Joseph D., assignor to Weln Sales Corporation, New York, N. Y. Belting. No. 1,341,973; June 1; v. 275; p. 71.
Coughtry, Charles J. (See Pink, Andrew W., and Coughtry.)
Coulson, Edward, Lake Forest, Ill. Combined self-locking clip and shield. No. 1,328,422; Jan. 20; v. 270; p. 887.
Coulson, John, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Preparation of plates for electrolytic cells. No. 1,330,581; Feb. 10; v. 271; p. 262.
Coulson, John, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrolytic pickling process. No. 1,347,897; July 27; v. 276; p. 686.
Coulson, William J., Houston, Tex. Plunger for deep-well pumps. No. 1,337,593; Apr. 20; v. 273; p. 492.
Coulson, William J., Houston, Tex. Pump-piston. No. 1,338,906; May 4; v. 274; p. 47.
Coulson, William J., Houston, Tex. Valve-flushing means. No. 1,338,907; May 4; v. 274; p. 47.
Coulson, William T., Anerley, London, England. Construction of illuminating devices. No. 1,348,698; Aug. 3; v. 277; p. 110.
Coulson, William T., Anerley, London, England. Construction of lenses for lamps, projectors, and the like. No. 1,350,957; Aug. 24; v. 277; p. 721.
Coulston, Herbert V., assignor to Smith and Furbush Machine Company, Philadelphia, Pa. Garnet-cylinder. No. 1,346,637; July 13; v. 276; p. 320.
Coultas, Fred, Bradford, and A. Pick, Eldwick, Bingley, England. Lifting apparatus for motor road-vehicles and the like. No. 1,327,905; Jan. 13; v. 270; p. 253.
Coulter, Holbrook W., trustee. (See Merritt, Frank W., assignor.)
Coulter, Holbrook W., assignor to The Betan Company, Duluth, Minn. Radiator. No. 1,358,526; Nov. 9; v. 280; p. 319.
Coulter, Hugh A., assignor to W. M. Macphail and M. J. K. Allen, Winnipeg, Manitoba, Canada. Through-rail diamond. No. 1,344,866; June 29; v. 275; p. 884.
Coulter, Joseph H., Pittsfield, Mass. Shuttle. No. 1,360,185; Nov. 23; v. 280; p. 735.
Coulter, Thomas H., Lytle, Tex. Stretching and securing wire. No. 1,338,425; Apr. 27; v. 273; p. 719.
Coumerilh, John W., Mullan, Idaho. Oven-shelf. No. 1,351,415; Aug. 31; v. 277; p. 874.
Counselman, Theodore B. (See Swart, W. G., Jordan, Davis, and Counselman.)
Coupe, Lawrence W., New Bedford, assignor to Draper Corporation, Hopedale, Mass. Shed-forming mechanism for looms. No. 1,335,876; Apr. 6; v. 273; p. 32.
Couper, William D., Chicago, Ill. Apparatus for mixing and controlling a supply of fuel for explosion-engines. No. 1,332,382; Mar. 2; v. 272; p. 40.
Couper, William D., Chicago, Ill. Apparatus for mixing and controlling a supply of fuel for explosion-engines. No. 1,353,893; Sept. 28; v. 278; p. 566.
Coups, Charles A. (See Joule, J., and Coups.)
Cournyer, James H., Oskaloosa, Iowa. Cream-remover. No. 1,355,539; Oct. 12; v. 279; p. 268.
Coursen, Louise, Lewiston, Ill. Combination dish-washer and canning device. No. 1,333,469; Mar. 9; v. 272; p. 297.
Courson, Harry E., Dewar, Okla. Spark-plug. No. 1,361,688; Dec. 7; v. 281; p. 142.
Courson, John F., Pitcairn, Pa. Draft-gear. No. 1,337,002; Apr. 13; v. 273; p. 306.
Courson, John F., Pitcairn, Pa. Draft-gear. No. 1,337,003; Apr. 13; v. 273; p. 306.
à Court Beadon, Richard R., Simla, Punjab, British India. Flexible shock-absorbing wheel and tire. No. 1,345,990; June 29; v. 275; p. 907.
Court, Emmi, Lakota, N. D. Combination-tool. No. 1,360,891; Nov. 30; v. 280; p. 941.
Court, Georges T., Basel, Switzerland, assignor to The Hoffmann-La Roche Chemical Works, New York, N. Y. Injection-syringe with protecting-hood. No. 1,336,730; Apr. 13; v. 273; p. 254.
Court, Leonard, Birmingham, England. Work-holding attachment for milling threads. No. 1,343,435; June 15; v. 275; p. 473.
Courtaulds Limited. (See Clayton, James, assignor.)
Courtney, John, Mark Center, Ohio. Automobile-lock. No. 1,354,172; Sept. 28; v. 278; p. 623.
Courtney, Thomas S., East Moline, Ill., assignor to Deere and Company, Moline, Ill. Feed-wheel for corn-shellers. No. 1,362,679; Dec. 21; v. 281; p. 435.
Courty, Leon, Windsor, Mo. Safety device for elevators. No. 1,341,112; May 25; v. 274; p. 668.
Couse, Elvin T., San Jose, Calif. Transmission mechanism. No. 1,356,601; Oct. 26; v. 279; p. 562.
Couse, Frederick A. (See Rosebourne and Couse.)
Cousino, Walter P., Curtice, Ohio. Spot-light-mounting device. No. 1,327,945; Jan. 13; v. 270; p. 260.
Cousins, Benjamin, Tulsa, Okla. Polish-rod hanger. (Reissue.) No. 14,999; Dec. 7; v. 281; p. 164.
Cousins, Henry R. (See Fuller, Charles M., assignor.)
Couture, Adelard, Arctic, R. I. Control for rotary oil-burners. No. 1,330,788; Feb. 17; v. 271; p. 369.
Couture, Josaphat, Hull, Quebec, Canada. Identification means. No. 1,350,070; Aug. 17; v. 277; p. 508.
Couve, Charles F., Aurora, Ill., assignor to Couve-Dunham Company. Manufacturing puppet-valves. No. 1,337,001; Apr. 13; v. 273; p. 306.
Couve-Dunham Company. (See Couve, Charles F., assignor.)
Covar, George P., Chester, S. C. Combined rolling-pin and culinary holder. No. 1,327,461; Jan. 6; v. 270; p. 108.
Covello, Albert, Angels Camp, Calif. Aeroplane. No. 1,355,315; Oct. 12; v. 279; p. 225.
Coveny, John F. (See Krathwohl, C. W., and Coveny.)
Covert, Ralph E., Detroit, Mich. Motor-operated rotary hammer. No. 1,341,545; May 25; v. 274; p. 752.
Covey, Frank E., San Francisco, assignor of one-fourth to H. L. Covey, Oakland, Calif. Combination reciprocal and turbine internal-combustion engine. No. 1,340,527; May 18; v. 274; p. 485.
Covey, H. M. (See Olsen, Edward A., assignor.)
Covey, Howard L. (See Covey, Frank E., assignor.)
Covington, Robert L., Morgantown, W. Va. Turning-machine. No. 1,341,495; May 25; v. 274; p. 742.
Covino, Isaac, West New York, N. J. Aeroplane. No. 1,348,983; Aug. 10; v. 277; p. 217.
Cowan, Albert W. (See Sillett, H. C., and Cowan.)
Cowan, Charles G., Driscoll, assignor of one-half to E. W. Harris, Broadmoor, Tex. Means for holding slats to belts. No. 1,345,186; June 29; v. 275; p. 935.
Cowan, Clarence P., Pont Rouge, Quebec, Canada, assignor to C. S. Bird, Walpole, Mass. Felt paper. No. 1,328,267; Jan. 20; v. 270; p. 358.

Digitized by Google

Cowan, Frank. (See Kellogg, Neff, Rogers, and Cowan.)
Cowan, Herbert W., *et al.*, trustees. (See Hennessy, D. E. and McGeorge, assignors.)
Cowan, John A., Kansas City, Mo. Traction device for vehicles. No. 1,353,318; Sept. 21; v. 278; p. 408.
Cowan, John A., Winnipeg, Manitoba, Canada. Grain-cleaning machine. No. 1,356,043; Oct. 19; v. 279; p. 406.
Cowan, John H., Kansas City, Mo. Razor-blade holder. No. 1,331,243; Feb. 17; v. 271; p. 455.
Cowan, Maurice H., Brooklyn, N. Y. Water-heater. No. 1,338,447; Apr. 27; v. 273; p. 723.
Cowan Truck Company. (See Fairchilds, George R., assignor.)
Cowan Truck Company. (See Hennessy, Daniel E., assignor.)
Cowan, William A., Brooklyn, N. Y., assignor to United Lead Company, New York, N. Y. Hard lead alloy. No. 1,360,269; Nov. 30; v. 280; p. 820.
Cowan, William G., Victoria, British Columbia, Canada. Cabinet for paper bags. No. 1,331,417; Feb. 17; v. 271; p. 487.
Cowardin, Harry A. (See Cowardin, Samuel P. and H. A.)
Cowardin, Samuel P. and H. A., Richmond, Va. Fuel-injector for internal-combustion engines. No. 1,333,541; Mar. 9; v. 272; p. 310.
Cowdery, Warren H., assignor to The American Fork and Hoe Company, Cleveland, Ohio. Making spades. No. 1,360,892; Nov. 30; v. 280; p. 942.
Cowel, John E., Crest, Colo. Mousetrap-pedal. No. 1,345,137; June 29; v. 275; p. 935.
Cowen, Mert, assignor of one-half to D. F. Casey, Binghamton, N. Y. Switch mechanism. No. 1,334,437; Mar. 23; v. 272; p. 586.
Cowgill, Frank M., assignor to The Ralston Steel Car Company, Columbus, Ohio. Roller-bearing for car-wheels. No. 1,334,018; Mar. 16; v. 272; p. 461.
Cowgill, Frank M., assignor to The Ralston Steel Car Company, Columbus, Ohio. Roller-bearing for car-wheels. No. 1,334,019; Mar. 16; v. 272; p. 461.
Cowgill, Orph W. (See Huffman, E. E., and Cowgill.)
Cowle, John T., Manaimo, British Columbia, Canada. Child's feeder-nipple. No. 1,360,893; Nov. 30; v. 280; p. 942.
Cowing, Percy F., assignor of one-half to H. F. Chappell, New York, N. Y. Manufacture of nickel-steel. No. 1,356,342; Oct. 19; v. 279; p. 466.
Cowles, C., & Company. (See Bulley, Louis T., assignor.)
Cowles, C., & Co. (See Hart, Franklin H., assignor.)
Cowles, Edwin, Cleveland, Ohio, assignor to the Government of the United States. Gyroscope. No. 1,359,333; Nov. 16; v. 280; p. 522.
Cowles, Ida S., Waverly, Pa. Drawer or shelf lining. No. 1,327,755; Jan. 13; v. 270; p. 225.
Cowles, Lucian A., Brockton, Mass. Throttle control for motors. No. 1,360,894; Nov. 30; v. 280; p. 942.
Cowley, James, and R. C. Dils, St. Louis, Mo. Auxiliary-power device. No. 1,344,582; June 22; v. 275; p. 764.
Cowley, James T., Minot, assignor to The Lamson Company, Boston, Mass. Conveyer. No. 1,351,554; Aug. 31; v. 277; p. 902.
Cowper-Coles, Sherard O., Sunbury-on-Thames, England. Manufacture of copper plates for process-printing. No. 1,362,082; Dec. 14; v. 281; p. 267.
Cowmatic Corporation. (See Lewis, John M. B., assignor.)
Cox, Abraham B., Cherry Valley, N. Y. Track-laying tractor. No. 1,355,540; Oct. 12; v. 279; p. 268.
Cox, Abraham B., Cherry Valley, N. Y. Water-jacket. No. 1,359,334; Nov. 16; v. 280; p. 522.
Cox, Allen E., assignor of one-fourth to J. C. Allen and one-fourth to R. C. Evans, Portland, Oreg. Lock. No. 1,350,989; Aug. 24; v. 277; p. 726.
Cox, Arthur, Olton, near Birmingham, England. Carbureter. No. 1,351,624; Aug. 31; v. 277; p. 915.
Cox, Arthur O., and P. Sager, Watsonville, Calif. Cultivator. No. 1,352,783; Sept. 14; v. 278; p. 244.
Cox, B. P., *et al.* (See Swatzell, David N., assignor.)
Cox Brass Manufacturing Company. (See Cox, William G., assignor.)
Cox, Charles B., Jr., Stafford Springs, Conn. Self-feeder for flock-cutters. No. 1,327,612; Jan. 13; v. 270; p. 198.
Cox, Charles C. (See Shoemaker, J. J., and Cox.)
Cox, Charles H., Los Angeles, Calif. Pneumatic shock-absorber. No. 1,328,496; Jan. 20; v. 270; p. 402.
Cox, Claude E., Detroit, Mich. Automatic oil-cup. No. 1,357,616; Nov. 2; v. 280; p. 78.
Cox, Ed, Linton, Ind. Antiskid-chain for vehicle-wheels. No. 1,362,851; Dec. 21; v. 281; p. 469.
Cox, Ernest. (See Gower, Owen, and Cox.)
Cox, Ernest H., Duncan, Okla., assignor of one-half to J. W. Chancellor, Bowie, Tex. Device for testing wells for oil, gas, &c. No. 1,347,534; July 27; v. 276; p. 612.
Cox, Frank J., San Francisco, Calif. Means for arresting particles of metal in lubricating-oil. No. 1,335,955; Apr. 6; v. 273; p. 48.
Cox, Frederick A., Chicago, Ill. Safety-signal. No. 1,362,234; Dec. 14; v. 281; p. 297.
Cox, George E., Niagara Falls, assignor to American Cyanamid Co., New York, N. Y. Apparatus for improving the grade of calcium cyanamid. No. 1,331,742; Feb. 24; v. 271; p. 569.
Cox, George S. (See Culverwell, G. H., and Cox.)
Cox, Harry M., Newark, assignor to J. M. Cox, Passaic, N. J. Banjo-support. No. 1,342,202; June 1; v. 275; p. 116.
Cox, Harry S., Clayton, N. Mex. Automobile-wheel. No. 1,339,168; May 4; v. 274; p. 96.
Cox, James L., Berghols, Ohio. Repeating shotgun. No. 1,355,316; Oct. 12; v. 279; p. 225.
Cox, John D., Clarksville, Va. Hair-clipper. No. 1,357,444; Nov. 2; v. 280; p. 46.
Cox, John L., assignor to Midvale Steel & Ordnance Company, Philadelphia, Pa. Chromium-steel alloy. No. 1,333,654; Mar. 16; v. 272; p. 393.
Cox, John M. (See Cox, Harry M., assignor.)
Cox, Joseph F., Springfield, Mass. Drop-hammer. No. 1,356,908; Oct. 26; v. 279; p. 623.
Cox, Nathan G., Livengood, Alaska. Flying-cruiser. No. 1,349,323; Aug. 10; v. 277; p. 284.
Cox, Ora E., Holladay, Tenn. Lamp-chimney holder and adjuster. No. 1,362,528; Dec. 14; v. 281; p. 354.
Cox, Paul F., Chicago, Ill. Addressing mechanism (slug). No. 1,344,384; June 22; v. 275; p. 725.
Cox, Ralph C., Wauneta, Nebr. Road-grader. No. 1,339,548; May 11; v. 274; p. 243.
Cox, Ross C., and J. F. McGinnitey, St. Joseph, Mo. Mashing and mixing machine. No. 1,351,890; Sept. 7; v. 278; p. 86.
Cox, Warren R., Cleveland, Ohio. Lock. No. 1,334,292; Mar. 23; v. 272; p. 558.
Cox, William A., Los Angeles, Calif. Menu and napkin holder. No. 1,354,026; Sept. 28; v. 278; p. 593.
Cox, William F., assignor to Sanitary Heating and Ventilating Company, Incorporated, Danville, Va. Apparatus for cleaning, moistening, and cooling air. No. 1,339,105; May 4; v. 274; p. 85.
Cox, William G., assignor to Cox Brass Manufacturing Company, Albany, N. Y. Automobile-buffer. No. 1,335,877; Apr. 6; v. 273; p. 32.
Cox, William H., Montoursville, Pa. Skewer-pin machine. No. 1,357,029; Oct. 26; v. 279; p. 646.
Coxe Travelling Grate Company. (See Lloyd, William, assignor.)
Coxe Traveling Grate Company. (See Wallen, Earl S., assignor.)
Coxey, Jasper S., Aberdeen, Wash. Aeroplane level-indicator. No. 1,361,367; Dec. 7; v. 281; p. 77.
Coxon, John, Sunderland, England. Valve. No. 1,356,130; Oct. 19; v. 279; p. 424.
Coyle, James S., St. Louis, Mo. Ignition device. No. 1,337,046; Apr. 13; v. 273; p. 315.
Coyle, John. (See Taliaferro, J. C., Robinson, and Coyle.)
Coyle, Joseph L., Vancouver, British Columbia, assignor of one-fourth to F. D. Todd, Victoria, Canada, Egg-box. No. 1,327,946; Jan. 13; v. 270; p. 260.
Coyne, Anthony, and L. Hash, Fork Ridge, Tenn. Miner's lamp. No. 1,344,867; June 29; v. 275; p. 884.
Coyne, Frederick E., assignor of one-half to John W. Eskholme, Chicago, Ill. Mail-catcher. No. 1,330,305; Feb. 10; v. 271; p. 210.
Cozart, Luther A. (See Morton, A. M., and Cozart.)
Cozart, Wallace A., Oklahoma, Okla. Wall-bracket. No. 1,345,910; July 6; v. 276; p. 115.
Cozzens, Charles O., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,359,154; Nov. 16; v. 280; p. 486.
Cozzolino, Donato. (See Van Fleet, Edwin W., assignor.)
Crabb, Isaiah, Independence, assignor to E. M. Mack, Oelwein, Iowa. Speed-responsive device. No. 1,332,808; Mar. 2; v. 272; p. 121.
Crabbs Reynolds Taylor Company. (See Gray, Harold L., assignor.)
Crabill, Frank M., San Francisco, Calif. Seat-support. No. 1,340,753; May 18; v. 274; p. 528.
Cracknell, Richard J., Streatham, England. Rotary pump or compressor. No. 1,359,792; Nov. 23; v. 280; p. 657.
Crady, Daniel R., Vernon, Tex. Train-order holder. No. 1,360,870; Nov. 30; v. 280; p. 838.
Crady, Peter E., Burlington, Vt. Individual filter. No. 1,333,011; Mar. 9; v. 272; p. 211.
Craft, Nat. (See Estep, Jesse, assignor.)
Craft, Walter D. (See Vorhauer, George F., assignor.)
Craft, Walter D., Newark, N. J., and F. F. Sorensen, Philadelphia, Pa. Milling-machine. No. 1,356,807; Oct. 26; v. 279; p. 603.
Crago, Arthur W., Detroit, Mich. Clam-digger. No. 1,336,203; Apr. 6; v. 273; p. 94.
Crago, Felix H., Hot Springs, Mont. Trap. No. 1,342,425; June 8; v. 275; p. 212.
Craig, Albert L., Stanhope, Iowa. Gasolene-engine. No. 1,360,895; Nov. 30; v. 280; p. 942.
Craig, Alexander, West Pittston, Pa. Aerial toy. No. 1,331,418; Feb. 17; v. 271; p. 488.
Craig, Alvin M., New Haven, Conn. Buffer for guns. No. 1,356,191; Oct. 19; v. 279; p. 436.
Craig, Alvin M., New Haven, Conn., assignor of one-half to M. Stine, New York, N. Y. Explosive shell. No. 1,355,130; Oct. 12; v. 279; p. 187.

Digitized by Google

Craig, Angus G., *et al.* (See Dobbins, Michael G., assignor.)
Craig, Clyde L., Washington Court House, Ohio. Float-valve. No. 1,349,267; Aug. 10; v. 277; p. 274.
Craig, Edward J., West View, assignor to H. Moore, Sewickley, Pa. Weather-strip. No. 1,343,904; June 22; v. 275; p. 631.
Craig, Harry G., Washington Court House, Ohio. Rebound-controller. No. 1,338,556; Apr. 27; v. 278; p. 744.
Craig, Joseph E., Gary, Ind. Combined dental mirror and syringe. No. 1,352,789; Sept. 14; v. 278; p. 245.
Craig, Parley W., Ensley, Ala. Automatic mechanical gear-shifting mechanism. No. 1,354,890; Oct. 5; v. 279; p. 88.
Craig, Robert, Berkeley, Calif. Screw-press. No. 1,358,418; Nov. 9; v. 280; p. 298.
Craig, Robert C., Abingdon, Va. Dental-engine handpiece. No. 1,362,680; Dec. 21; v. 281; p. 435.
Craig, Robert J., Orange, N. J. Shoe-cleaner. No. 1,336,284; Apr. 6; v. 273; p. 109.
Craig, Robert M., Wilkinsburg, Pa. Making metallic denture-backings. No. 1,353,565; Sept. 21; v. 278; p. 457.
Craig Tractor Company, The. (See Diederich, John W., assignor.)
Craig, William W., *et al.* (See Smith, William H., assignor.)
Craigie, Frank, and J. Hines, Chicago, Ill. Nozzle. No. 1,351,840; Sept. 7; v. 278; p. 25.
Craighead, James R., Schenectady, N. Y., assignor to General Electric Company. Power-limiting system. No. 1,350,921; Aug. 24; v. 277; p. 713.
Craighead, James R., and H. R. Summerhayes, Schenectady, N. Y., assignors to General Electric Company. Electrical system of power transmission. No. 1,350,920; Aug. 24; v. 277; p. 713.
Cram, Leroy V., Detroit, Mich. Rod-support. No. 1,342,099; June 1; v. 275; p. 95.
Cramer, Stuart W., and W. B. Hodge, Charlotte, N. C., assignors to Parks-Cramer Company, Fitchburg, Mass. Hygrometer for regulating humidifying and heating systems. No. 1,329,112; Jan. 27; v. 270; p. 546.
Cramer, Stuart W., and W. B. Hodge, Charlotte, N. C., assignors to Parks-Cramer Company, Fitchburg, Mass. Hygrometer for regulating humidifying and heating systems. No. 1,331,981; Feb. 24; v. 271; p. 615.
Cramer, William V. T., Cincinnati, Ohio. Roadway. No. 1,329,264; Jan. 27; v. 270; p. 575.
Crammond, Alexander, South Shields, England. Scale-removing tool. No. 1,359,793; Nov. 23; v. 280; p. 657.
Cramp, Joseph C., Philadelphia, Pa., assignor of one-half to W. E. Schoch. Securing device for vehicle-curtains, awnings, &c. No. 1,335,368; Mar. 30; v. 272; p. 821.
Cranage, Harry B., Kirkstall, assignor of four-tenths to L. Fox, Leeds, England. Ironing-machine for pressing the seams of clothing. No. 1,356,044; Oct. 19; v. 279; p. 406.
Crance, John F., Petersburg, N. Y. Landing and launching device. No. 1,361,751; Dec. 7; v. 281; p. 154.
Crandall, Floyd A., Flint, Mich. Truck-body. No. 1,328,130; Jan. 13; v. 270; p. 295.
Crandall, Lehman H., Los Angeles, Calif. Belt-buckle. No. 1,347,324; July 20; v. 276; p. 515.
Crandall, Russell A., Buttonwillow, Calif. Hay-loader. No. 1,348,091; July 27; v. 276; p. 724.
Crandell, Willis S., Elsmere, assignor to Albany Perforated Wrapping Paper Company, Albany, N. Y. Process of and machine for winding rolls of paper towels and toilet-paper, &c. No. 1,353,634; Sept. 21; v. 278; p. 471.
Crandon, Joseph B., assignor to Crandon Manufacturing Company, Portland, Me. Regulating the acidity of sulfite liquor. No. 1,340,649; May 18; v. 274; p. 509.
Crandon, Joseph B., assignor to Crandon Manufacturing Company, Portland, Me. Apparatus for regulating the acidity of sulfite liquor and other like purposes. No. 1,341,361; May 245; v. 274; p. 716.
Crandon Manufacturing Company. (See Crandon, Joseph B., assignor.)
Crane, Bert B., Rochester, N. Y. Bulkhead. No. 1,336,892; Apr. 13; v. 273; p. 286.
Crane Company. (See Houser, A. M., and Morris, assignors.)
Crane, Edward L., Denver, Colo. Dirigible headlight for automobiles. No. 1,357,957; Nov. 9; v. 280; p. 205.
Crane, Ernest E., Minneapolis, Minn., assignor to American Manganese Steel Company, Chicago, Ill. Saddle-block plate. No. 1,359,335; Nov. 16; v. 280; p. 522.
Crane, Frederick G., *et al.* (See Hammond, Grant, assignor.)
Crane, Henry H., Floral Park, assignor to Huber Mfg. Co., New York, N. Y. Lock. No. 1,335,821; Apr. 6; v. 273; p. 22.
Crane, Jasper E., Newark, assignor to The Arlington Company, Arlington, N. J. Process of gelatinizing and product thereof. No. 1,329,583; Feb. 3; v. 271; p. 45.
Crane, John P., Indian Orchard, Mass. Spinning-roll No. 1,362,603; Dec. 21; v. 281; p. 420.
Crane, John T., Maywood, Ill. Line-shaft bearing. No. 1,345,534; July 6; v. 276; p. 41.
Crane, Joshua, Westwood, assignor to Copley Motor Devices Co., Boston, Mass. Vehicle-jack. No. 1,356,697; Oct. 26; v. 279; p. 581.
Crane, Melville W., Moline, Ill. Combination geometrical instrument. No. 1,337,823; Apr. 20; v. 273; p. 536.
Crane Puller Company. (See Twombly, Harry D., assignor.)
Crane, Raymond E. (See Lawrence, E. H., and Crane.)
Crane, Richard T., Jr., Chicago, Ill. Safety-spring for berths, &c. No. 1,336,943; Apr. 13; v. 273; p. 295;
Crane, Robert W., Los Angeles, Calif. Hinge. No. 1,350,360; Aug. 24; v. 277; p. 605.
Crane, Samuel G., assignor to Toledo Scale Company, Toledo, Ohio. Automatic weighing-scale. No. 1,328,319; Jan. 20; v. 270; p. 368.
Crane, Samuel G., assignor to Toledo Scale Company, Toledo, Ohio. Electric automatic scale. No. 1,328,320; Jan. 20; v. 270; p. 368.
Crane, Samuel G., assignor to Toledo Scale Company, Toledo, Ohio. Illuminated weighing-scale. No. 1,356,602; Oct. 26; v. 279; p. 563.
Crane, Samuel G., assignor to Toledo Scale Company, Toledo, Ohio. Automatic weighing-scale. No. 1,360,186; Nov. 23; v. 280; p. 735.
Crane, William M., Company. (See Erskine, James, assignor.)
Crane, William M., Company. (See O'Dowd, Henry W., assignor.)
Cranford, Frederick L. (See Meem, James C., assignor.)
Cranford, Eli W., Albemarle, N. C. Combined window curtain and shade hanger. No. 1,332,247; Mar. 2; v. 272; p. 13.
Cranford, Frederick L. (See Meen, James C., assignor.)
Crank Case Evaporator Company. (See Cochrane, Frederick L., assignor.)
Crank, Nathaniel, Hill City, Kans. Door-stop. No. 1,357,765; Nov. 2; v. 280; p. 107.
Cranshaw, Harold B., Boston, Mass. Roll-paper guard and cutter. No. 1,351,555; Aug. 31; v. 277; p. 902.
Cranston, William C., assignor of one-half to C. Nagel, Philadelphia, Pa. Tread attachment for tires. No. 1,338,175; Apr. 27; v. 273; p. 672.
Crapo, Stanford T., and J. R. Jenkins, assignors to Huron Portland Cement Company, Detroit, Mich. Cargo-storage for boats and unloading mechanism therefor. No. 1,351,026; Aug. 31; v. 277; p. 797.
Crapps, Leon D., Las Cruces, N. Mex. Pump-valve. No. 1,363,761; Dec. 28; v. 281; p. 685.
Crate, James S., Houston, Tex. Envelop. No. 1,354,092; Sept. 28; v. 278; p. 607.
Craun, William H. (See Gregory, B. F., and Gregory.)
Craun, William H., Hoboken, N. J., and P. Mathis, Brooklyn, N. Y. Portable lathe for recutting crank-shaft pins No. 1,345,138; June 29; v. 275; p. 936.
Cravath, Austin M. (See Cravath, James R and A. M.)
Cravath, James R. and A. M., Chicago, Ill. Lighting-fixture. No. 1,334,739; Mar. 23; v. 272; p. 642.
Craven, James F., Pittsburgh, Pa. Grease-cup. No. 1,351,841; Sept. 7; v. 278; p. 25.
Craver, Howard S., assignor of one-half to H. S. Judd, Chicago, Ill. Washing-machine. No. 1,361,228; Dec. 7; v. 281; p. 49.
Crawford, Albert G., assignor of one-half to H. W. Seaman, Chicago, Ill. Refrigerating gas and making same. (Reissue.) No. 14,955; Oct. 12; v. 279; p. 318.
Crawford, Alex S., Cannonsville, N. Y. Horseshoe. No. 1,327,523; Jan. 6; v. 270; p. 120.
Crawford, Alfred, assignor to The Crawford Manufacturing Company, New Brunswick, N. J. Stop-motion. No. 1,332,031; Feb. 24; v. 271; p. 624.
Crawford, Charlotte E. (See Crawford, William H., assignor.)
Crawford, David F., assignor to Locomotive Stoker Company, Pittsburgh, Pa. Locomotive draft appliance. No. 1,356,808; Oct. 26; v. 279; p. 603.
Crawford, David F., and A. K. Kusebauch, assignors to Locomotive Stoker Co., Pittsburgh, Pa. Locomotive draft appliance. No. 1,356,809; Oct. 26; v. 279; p. 603.
Crawford, Frank S., assignor to The Crawford Manufacturing Company, New Brunswick, N. J. Stop-motion. No. 1,354,379; Sept. 28; v. 278; p. 665.
Crawford-Frost, William A., Baltimore, Md. Wave-energy motor. No. 1,346,399; July 13; v. 276; p. 272.
Crawford, George M., *et al.* (See London, Jacob M., assignor.)
Crawford, Gilbert H., Brooklyn, assignor to De La Vergne Machine Company, New York, N. Y. Method and apparatus for measuring the capacity of refrigerating plants. No. 1,349,409; Aug. 10; v. 277; p. 301.
Crawford, Harvey F., Brockton, Mass. Shoe shank-piece. No. 1,359,036; Nov. 16; v. 280; p. 464.
Crawford, Howard H., assignor to Detroit Motor Appliance Company, Detroit, Mich. Radiator-shield. No. 1,352,184; Sept. 7; v. 278; p. 90.
Crawford, John F., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Metal-bending machine. No. 1,353,365; Sept. 21; v. 278; p. 472.
Crawford, John J., New York, N. Y. Vehicle-spring shackle. No. 1,338,557; Apr. 27; v. 273; p. 744.
Crawford, John S., New London, Conn. Automatic train control. No. 1,362,027; Dec. 21; v. 281; p. 483.

Digitized by Google

Alphabetical list of patentees—Continued.

Crawford, Joseph L., Raymond, Wash. Razor. No. 1,338,908; May 4; v. 274; p. 48.
Crawford, Lyter H., and J. H. Prante, Dallas, Tex. Surgical splint. No. 1,362,398; Dec. 14; v. 281; p. 329.
Crawford Manufacturing Company, The. (See Crawford, Alfred, assignor.)
Crawford Manufacturing Company, The. (See Crawford, Frank, Sr., assignor.)
Crawford, Walter. (See Johnson, Charles, assignor.)
Crawford, Walter G., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone set. No. 1,337,692; Apr. 20; v. 273; p. 511.
Crawford, William E., Chapin, Iowa. Device for holding hayracks. No. 1,349,496; Aug. 10; v. 277; p. 318.
Crawford, William H., assignor to C. E. Crawford, Los Angeles, Calif. Drag-line scraper. No. 1,332,609; Mar. 2; v. 272; p. 83.
Crawford, William R., Pomona, Calif. Smokeless orchard-heater. No. 1,353,636; Sept. 21; v. 278; p. 472.
Crays, Oscar M., assignor of one-third to R. Bellville and one-third to C. C. Stone, Indianapolis, Ind. Motor-buck. No. 1,344,385; June 22; v. 275; p. 725.
Creamery Package Mfg. Company, The. (See Valerius, T. L., and Larsen, assignors.)
Creapo, Charles A., St. Paul, Minn. Refrigerator. No. 1,354,536; Oct. 5; v. 279; p. 18.
Crear, James, Chicago, Ill. Bicycle. No. 1,343,616; June 15; v. 275; p. 509.
Creasey, Samuel E., Sanford, Me. Squeezer. No. 1,341,496; May 25; v. 274; p. 743.
Creason, Frank, Richmond, Mo., assignor of one-half to W. A. Mullin. Cement-block mold. No. 1,342,373; June 1; v. 275; p. 148.
Creason, Frank, assignor of one-half to W. A. Mullin, Richmond, Mo. Corner-block mold. No. 1,347,015; July 20; v. 276; p. 454.
Crecelius, Lawrence P., assignor to The Electric Railway Improvement Company, Cleveland, Ohio. System of bonding rails. No. 1,327,947; Jan. 13; v. 270; p. 260.
Crecelius, Lawrence P., assignor to The Electric Railway Improvement Company, Cleveland, Ohio. Rail-bond. No. 1,335,428; Mar. 30; v. 272; p. 832.
Creedy, James S., Hamilton, Ontario, Canada. Journal-box lids. No. 1,344,175; June 22; v. 275; p. 683.
Creevy, Edward F., Chicago, Ill. Automatic-feed memorandum device. No. 1,361,566; Dec. 7; v. 281; p. 119.
Crehan, Hubert, Pittsburgh, Pa. Bolt-threading machine. No. 1,327,312; Jan. 6; v. 270; p. 80.
Creighton, Elmer E. F., Schenectady, N. Y., assignor to General Electric Company. System of electrical switching. No. 1,331,050; Feb. 17; v. 271; p. 420.
Creighton, Elmer E. F., Schenectady, N. Y., assignor to General Electric Company. Cemented insulator. No. 1,360,896; Nov. 30; v. 280; p. 942.
Creighton, Samuel H., Indianapolis, Ind. Heater for automobiles. No. 1,359,490; Nov. 23; v. 280; p. 597.
Creitz, Walter M., Bethlehem, Pa. Guard-rail structure. No. 1,352,356; Sept. 7; v. 278; p. 123.
Crell, Albert P., Grand Rapids, Mich. Fuel-reserve device for liquid-fuel tanks. No. 1,359,336; Nov. 16; v. 280; p. 522.
Crell, Albert P., assignor to New Era Spring & Specialty Company, Grand Rapids, Mich. Tire - carrier. No. 1,331,244; Feb. 17; v. 271; p. 455.
Crell, Albert P., assignor to New Era Spring & Specialty Company, Grand Rapids, Mich. Tire - carrier. No. 1,331,245; Feb. 17; v. 271; p. 455.
Cremean, William F., Wilkes-Barre, Pa. Railway-car. No. 1,336,134; Apr. 6; v. 273; p. 81.
Crenshaw, Loren O., Los Angeles, Calif., assignor to Magnetic Signal Company. Double-coil oscillating motor. No. 1,347,209; July 20; v. 276; p. 491.
Crenshaw, Loren O., Los Angeles, Calif., assignor to Magnetic Signal Company. Motor comprising a single coil. No. 1,361,229; Dec. 7; v. 281; p. 49.
Crenshaw, Marvin B., Dora, Ala. Dirigible-headlight mechanism. No. 1,329,505; Feb. 3; v. 271; p. 31.
Crescent Check Writer Company. (See O'Donnell, E. F., and Erickson, assignors.)
Crescent Washing Machine Company. (See Halsey, Norman W., assignor.)
Cresci, Anthony L., Vineland, N. J. Safety device for doors. No. 1,356,192; Oct. 19; v. 279; p. 436.
Cresmer, John H., Riverside, Calif. Form for concrete construction. No. 1,344,115; June 22; v. 275; p. 672.
Crespi, Mario. (See Cortese, E., Crespi, and Squassi.)
Cress, Horatio G., Troy, Ohio. Game. No. 1,338,493; Apr. 27; v. 273; p. 732.
Cress, Isaac N., Wakeeney, Kans. Truss. No. 1,339,946; May 11; v. 274; p. 319.
Cressey, John A., Dallas, Tex. Baking device. No. 1,335,484; Mar. 30; v. 272; p. 843.
Cressler, Albert B., L. B. Ness, and H. B. Baumbach, Middletown, Pa. Sash-weight. No. 1,344,176; June 22; v. 275; p. 684.
Cresswell, William G., Beckenham, Christchurch, New Zealand. Lifting of plows. No. 1,355,815; Oct. 19; v. 279; p. 361.
Creveling, John L. (See Milne, G. G., and Creveling.)
Creveling, John L., White Plains, N. Y., assignor to Gould Coupler Company. Electric system. No. 1,328,321; Jan. 20; v. 270; p. 868.
Creveling, John L., White Plains, N. Y., assignor to Gould Coupler Company. Electric system. No. 1,332,610; Mar. 2; v. 272; p. 83.
Creveling, John L., White Plains, N. Y., assignor to Gould Coupler Company. Electric regulation. No. 1,343,905; June 22; v. 275; p. 631.
Creveling, John L., White Plains, N. Y., assignor to Gould Coupler Company. Electric regulation. No. 1,344,222; June 22; v. 275; p. 693.
Creveling, John L., White Plains, N. Y., assignor to Gould Coupler Company. Electric regulation. No. 1,353,319; Sept. 21; v. 278; p. 408.
Creveling, John L., Tucson, Ariz., assignor to Gould Coupler Company. Electric system. No. 1,336,619; Apr. 13; v. 273; p. 232.
Creveling, John L., Tucson, Ariz., assignor to Gould Coupler Company. Electric system. No. 1,343,765; June 15; v. 275; p. 539.
Creveling, John L., Tucson, Ariz., assignor to Gould Coupler Company. Electric regulation. No. 1,348,348; Aug. 3; v. 277; p. 43.
Creveling, John L., Tucson, Ariz., assignor to Gould Coupler Company. Electric system. No. 1,361,448; Dec. 7; v. 281; p. 95.
Crew, Walter E., Memphis, Tenn. Concrete-slab construction. No. 1,361,831; Dec. 14; v. 281; p. 217.
Crick, Arthur, assignor to H. D. Sweetland and A. J. Owen, Bristol, England. Signal-flag for taxicabs. No. 1,347,210; July 20; v. 276; p. 491.
Criest, Frank, Sharpsville, Pa. Walking doll. No. 1,329,958; Feb. 3; v. 271; p. 115.
Criest, Frank, Sharpsville, Pa. Walking toy figure. No. 1,329,959; Feb. 3; v. 271; p. 115.
Crilly, William, Chicago, Ill. Unloading apparatus. No. 1,361,832; Dec. 14; v. 281; p. 217.
Crim, Joseph E., and H. E. Brower, Decatur, Ill. Gear-puller. No. 1,343,661; June 15; v. 275; p. 518.
Crinnion, John, *et al.* (See Wertz, T., and Springmeyer, assignors.)
Crippen, George F., Ypsilanti, assignor to The Crippen Manufacturing Company, Mount Pleasant, Mich. Roll-adjusting apparatus. No. 1,352,052; Sept. 7; v. 278; p. 66.
Crippen, Henry M., Athens, Ohio. Traveling illuminated display-sign. No. 1,320,658; Feb. 3; v. 271; p. 57.
Crippen, Henry M., Athens, Ohio, assignor to The Athens Bindery Company. Loose-leaf-binding machine. No. 1,346,179; July 13; v. 276; p. 229.
Crippen, Lloyd C., Parsons, and C. H. Schlinkmeier, Walnut, Kans. Lifting-jack. No. 1,330,306; Feb. 10; v. 271; p. 211.
Crippen Manufacturing Company, The. (See Crippen, George F., assignor.)
Criqui, Albert A., assignor to Buffalo Forge Company, Buffalo, N. Y. Centrifugal fan. No. 1,341,882; June 1; v. 275; p. 53.
Criqui, Charles A., and E. T. Larkin, Buffalo, N. Y.; said Larkin assignor to said Criqui. Pump. No. 1,339,500; May 11; v. 274; p. 234.
Criqui, Charles A., and E. T. Larkin; said Larkin assignor to said Criqui, Buffalo, N. Y. Mechanism for controlling lubrication of explosion-engines. No. 1,353,894; Sept. 28; v. 278; p. 566.
Crisamore, Grant, Los Angeles, Calif. Non-skid and tractor device. No. 1,344,678; June 29; v. 275; p. 848.
Crisman, Caleb, Chicago, Ill. Garden implement. No. 1,356,972; Oct. 26; v. 279; p. 635.
Crisman, Charles A. (See Sharpnack, M. C., and Crisman.)
Crist, Frank, Lima, Ohio. Washout-plug for boilers. No. 1,342,740; June 8; v. 275; p. 273.
Crist, William E., Baltimore, Md. Lubricator for journal-boxes. No. 1,337,201; Apr. 20; v. 273; p. 418.
Crist, William E., Baltimore, Md. Lubricator for journal-boxes. No. 1,337,202; Apr. 20; v. 273; p. 418.
Crissinger, Joseph J., Greensburg, Pa. Nut-lock. No. 1,353,882; Sept. 21; v. 278; p. 421.
Crisson, George. Hoboken, N. J., assignor to American Telephone and Telegraph Company. Repeater-circuit. No. 1,353,637; Sept. 21; v. 278; p. 472.
Critchett, James C., El Paso, Tex. Hydrocarbon-burner. No. 1,336,285; Apr. 6; v. 273; p. 110.
Critchett, James H., assignor to Electro Metallurgical Company, Niagara Falls, N. Y. Flexible connection for electric furnaces. No. 1,331,625; Feb. 24; v. 271; p. 547.
Crittall Manufacturing Company, The. (See Crittall, Walter F., assignor.)
Crittall, Walter F., assignor to The Crittall Manufacturing Company, Limited, Braintree, England. Applying hinges to casement-windows. No. 1,329,827; Feb. 3; v. 271; p. 90.
Crocco, Gaetano A., Rome, Italy. Perforating-machine for bank-drafts and other documents. No. 1,347,445; July 20; v. 276; p. 539.
Crocker, Arthur T. Schenectady, N. Y., assignor to General Electric Company. Controller for electric motors. No. 1,352,249; Sept. 7; v. 278; p. 103.
Crocker, Charles D., Hartford, Conn. Auto safety conduit cut-off. No. 1,359,035; Nov. 16; v. 280; p. 464.

Digitized by Google

Crocker, Clarence T., Schenectady, N. Y., assignor to General Electric Company. Motor control. No. 1,334,134; Mar. 16; v. 272; p. 483.
Crocker, Clarence T., Schenectady, N. Y., assignor to General Electric Company. Controller for electric motors. No. 1,352,250; Sept. 7; v. 278; p. 103.
Crocker, Ernest B., Stratford, assignor to The Ashcroft Manufacturing Company, Bridgeport, Conn. Pressure-gage. No. 1,346,941; July 20; v. 276; p. 439.
Crocker, Ernest B., Stratford, Conn., assignor to Manning, Maxwell & Moore, Inc., New York, N. Y. Means for securing collars to spindles. No. 1,363,496; Dec. 28; v. 281; p. 634.
Crocker, Howard M., Mankato, Minn. Silo-door latch. No. 1,330,847; Feb. 17; v. 271; p. 380.
Crocker-Wheeler Company. (See Brady, William F., assignor.)
Crockett, Arthur, Kansas City, Mo. Trap-gun. No. 1,348,543; Aug. 3; v. 277; p. 80.
Crockett, William P., Harrison, N. J., assignor to The Singer Manufacturing Company. Skiving-machine. No. 1,349,119; Aug. 10; v. 277; p. 248.
Croft, Andrew C., Armour, S. D. Cultivator. No. 1,357,140; Oct. 26; v. 279; p. 670.
Crofton, Wilfred B., Yeoville, Johannesburg, South Africa. Internal-combustion engine. No. 1,348,393; Aug. 3; v. 277; p. 52.
Crofut & Knapp Company. (See Josephs, Julius, assignor.)
Croghan, Francis. (See Finerty, J. P., and Croghan.)
Cromble, Louis A., Hicksville, N. Y. Wrench. No. 1,327,524; Jan. 6; v. 270; p. 120.
Cromer, John S. (See Neighbour, William W., assignor.)
Crommett, Charles F., Chelsea, Mass. Containing apparatus and valve system therefor. No. 1,353,320; Sept. 21; v. 278; p. 408.
Crommett, Charles F., Chelsea, Mass. Valve. No. 1,353,321; Sept. 21; v. 278; p. 409.
Crommett, Charles F. and O. J., Chelsea, assignors, by mesne assignments, to G. L. Cabot, Cambridge, Mass. Apparatus for producing liquid oxygen. No. 1,354,380; Sept. 28; v. 278; p. 665.
Crommett, Orrin J. (See Crommett, Charles F., and O. J.)
Crompton, Edwin, and C. L. Crooks, Pueblo, Colo. Latch. (Reissue.) No. 14,953; Oct. 5; v. 279; p. 132.
Crompton, Edwin, and C. L. Crooks, Pueblo, Colo. Combined latch and lock. No. 1,355,735; Oct. 12; v. 279; p. 305.
Crompton, Frank E., Brooklyn, assignor to Signature Company, New York, N. Y. Binder-board. No. 1,350,141; Aug. 17; v. 277; p. 516.
Crompton & Knowles Loom Works. (See Crossland, George, assignor.)
Crompton & Knowles Loom Works. (See Holmes, Elbridge R., assignor.)
Crompton & Knowles Loom Works. (See Hutchins, Allan S., assignor.)
Crompton & Knowles Loom Works. (See Jenckes, Lawrence B., assignor.)
Crompton & Knowles Loom Works. (See McGuiness, Benjamin F., assignor.)
Crompton & Knowles Loom Works. (See Regan, John, assignor.) (Reissue.)
Crompton & Knowles Loom Works. (See Ryon, Eppa H., assignor.)
Crompton & Knowles Loom Works. (See Stone, Charles M., assignor.)
Crompton & Knowles Loom Works. (See Wright, Charles S., assignor.)
Crompton, L. W., and W. J. Graham, Tampa, Fla. Auto emergency-tire. No. 1,358,936; Nov. 16; v. 280; p. 446.
Cromwell, John C., Cleveland, Ohio, and W. M. Mehlhorn, Pottsville, Pa. Open-hearth furnace. No. 1,338,288; Apr. 27; v. 273; p. 694.
Cronau, Otto, New York, N. Y. Tool-holder. No. 1,341,206; May 25; v. 274; p. 686.
Cronau, Otto, New York, N. Y. Relieving attachment for lathes. No. 1,350,361; Aug. 24; v. 277; p. 605.
Cronemeyer, Ernest L., Redlands, Calif. Automobile-top. No. 1,362,476; Dec. 14; v. 281; p. 343.
Cronenberger, Frederick G., White Lake, S. D. Tank. No. 1,359,673; Nov. 23; v. 280; p. 633.
Cronin, Charles I., *et al.*, executors. (See Hirst, Charles S.)
Cronowert, Winfield S., Addie, Idaho. Posthole-digger. No. 1,335,878; Apr. 6; v. 273; p. 33.
Crook, Alfred, assignor to Philadelphia Roll & Machine Company, Philadelphia, Pa. Variable statistical chart. No. 1,360,726; Nov. 30; v. 280; p. 909.
Crook, Alfred, and R. D. Chapman, Philadelphia, Pa., assignors to Taylor-Wharton Iron and Steel Company, High Bridge, N. J. Method and means for making artificial-stone products. No. 1,346,638; July 13; v. 276; p. 320.
Crook, Alfred, and R. D. Chapman, Philadelphia, Pa., assignors to Taylor-Wharton Iron and Steel Company, Highbridge, N. J. Method and means for making asbestos shingles. No. 1,352,941; Sept. 14; v. 278; p. 275.
Crook, Charles M., Chicago, Ill. Card-rack. No. 1,335,822; Apr. 6; v. 273; p. 22.
Crook, Clifford G., Pittsburgh, Pa. Machine for packing goods. No. 1,363,395; Dec. 28; v. 281; p. 614.
Crooks, Charles L. (See Crompton, E., and Crooks.) (Reissue.)
Crooks, William, Aldrich, Ala. Automatic mine-door-operating mechanism. No. 1,345,074; June 29; v. 275; p. 923.
Crookshank, Samuel M. (See Dobson and Crookshank.)
Croonholm, Nills, Cornwall, N. Y. Equalizer. No. 1,344,334; June 22; v. 275; p. 715.
Crosbie, Martin J., New York, N. Y. Fishline attachment. No. 1,351,625; Aug. 31; v. 277; p. 915.
Crosbie, Robert G., Hawthorn, Victoria, Australia. Support for curtain-poles and the like. No. 1,337,594; Apr. 20; v. 273; p. 492.
Crosby, Edwin F., New Haven, Conn., assignor of one-half to A. C. Jenney, East Providence, R. I. Heel. No. 1,335,485; Mar. 30; v. 272; p. 843.
Crosby, Edwin L., Highland Park, Mich. Electric furnace. No. 1,336,820; Apr. 13; v. 273; p. 271.
Crosby, Edwin L., and O. J. Marshick, Detroit, Mich. Journaled cable-clamp. No. 1,345,351; July 6; v. 276; p. 5.
Crosby, Frank B., Seattle, Wash. Traffic-signal device. No. 1,363,497; Dec. 28; v. 281; p. 634.
Crosby, Kenneth W., trustee. (See Baker, Malcolm H., assignor.)
Crosby, Oliver, assignor to American Hoist & Derrick Co., St. Paul, Minn. Attachment for rope-blocks. No. 1,347,211; July 20; v. 276; p. 492.
Crosby Steam Gage & Valve Company. (See Benecke, Adelbert O., assignor.)
Crosby Steam Gage & Valve Company. (See Clark, George H., assignor.)
Crosby, William H., Waterville, Me. Tire. No. 1,335,663; Mar. 30; v. 272; p. 876.
Crosman, Loring P., Portland, Me. Boring-tool. No. 1,362,477; Dec. 14; v. 281; p 344
Cross, Alonzo T., Providence, R. I. Fountain-pen-filling device. No. 1,348,211; Aug. 3; v. 277; p. 15.
Cross, Andrew B., Denver, Colo. Apparatus for recovering gasolene from natural gases. No. 1,327,906; Jan. 13; v. 270; p. 253.
Cross, Andrew J., New York, N. Y. Ophthalmic-lens blank. No. 1,340,021; May 11; v. 274; p. 332.
Cross, Andrew J., New York, N. Y. Multifocal ophthalmic lens. No. 1,360,727; Nov. 30; v. 280; p. 910.
Cross, Archibald, Bicknell, Ind., assignor to Allen & Garcia Company, Chicago, Ill. Door-operating device for self-dumping mine-cars. No. 1,361,230; Dec. 7; v. 281; p. 49.
Cross, Clifford J., New York, N. Y. Bottle-case and support. No. 1,361,752; Dec. 7; v. 281; p. 155.
Cross, Edmund R., Boston, Mass. Weighing-scale. No. 1,355,942; Oct. 19; v. 279; p. 386.
Cross, Ernest L., Paw Paw, Mich. Folding car-step. No. 1,363,396; Dec. 28; v. 281; p. 614.
Cross, George, Jeannette, Pa. Wrench. No. 1,331,956; Feb. 24; v. 271; p. 610.
Cross, Guy C., Denver, Colo. Photographic-film clip. No. 1,333,794; Mar. 16; v. 272; p. 416.
Cross, Guy C., Denver, Colo. Photographic-film hanger. No. 1,360,187; Nov. 23; v. 280; p. 735.
Cross, Harry N., Stockton, Calif. Dust-fuel carbureter. No. 1,349,751; Aug. 17; v. 277; p. 442.
Cross, Otto J. (See Barbee and Cross.)
Cross Paper Feeder Company. (See Upham, Burt F., assignor.)
Crossen, Edgar H., Franklin, Pa. Piston for internal-combustion motors. No. 1,327,462; Jan. 6; v. 270; p. 108.
Crossen, Edgar H., Franklin, Pa. Oil-engine. No. 1,338,289; Apr. 27; v. 273; p. 694.
Crossland, George, Jessups, Md., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Carpet-weaver. No. 1,349,367; Aug. 10; v. 277; p. 293.
Crossley, Francis M., Redford, Mich. Switch-tongue-holding device. No. 1,360,270; Nov. 30; v. 280; p. 820.
Crosthwait, David N., Jr., Marshalltown, Iowa. Apparatus for returning water to boilers. No. 1,353,467; Sept. 21; v. 278; p. 435.
Croston, Emard A., and K. Chrobak, Rosemont, W. Va. Trolley-wire guard. No. 1,356,603; Oct. 26; v. 279; p. 563.
Crothamel, Almon W., Ocean View, Va. Car-unloader. No. 1,337,047; Apr. 13; v. 273; p. 315.
Crouch, Clayton, Cleveland, Ohio. Brickmaking-machine. No. 1,331,328; Feb. 17; v. 271; p. 469.
Crouch, Edward L., assignor to R. J. Reynolds Tobacco Company, Winston-Salem, N. C. Can-bottoming machine. No. 1,362,083; Dec. 14; v. 281; p. 267.
Crouch, John W., St. Louis, Mo. Hose-supporter. No. 1,342,666; June 8; v. 275; p. 258.
Crouch, Thomas E., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Rim night-latch. No. 1,350,299; Aug. 24; v. 277; p. 593.
Crouch, Walker L., assignor to Ohmer Fare Register Company, Dayton, Ohio. Lock for recording-registers. No. 1,360,622; Nov. 30; v. 280; p. 889.

Digitized by Google

Crouch, Walter L., and A. E. Rust, assignors to The E. Ingraham Company, Inc., Bristol, Conn. Dial-mat fastening for clocks. No. 1,336,204; Apr. 6; v. 273; p. 95.
Crouch, William S., Stafford, Kans. Fracture apparatus. No. 1,334,596; Mar. 23; v. 272; p. 616.
Crouch, William S., Tacoma, Wash., assignor to Line Carrying Buoy Company. Buoy. No. 1,339,321; May 4; v. 274; p. 123.
Crousaz, Louis S., Shenandoah, Iowa. Ignition device. No. 1,361,689; Dec. 7; v. 281; p. 143.
Crouse, Emory, Wichita, Kans. Internal-combustion engine. No. 1,344,263; June 22; v. 275; p. 701.
Crouse, Henry M., Chicago, and George G. Newell, Congress Park, Ill. Combined autographic register and recording-machine. No. 1,355,816 Oct. 19; v. 279; p. 361.
Crouse-Hinds Company. (See Amos, John A., assignor.)
Crouse-Hinds Company. (See Bissell, C. H., and Smith, assignors.)
Crouse-Hinds Company. (See Bissell, Carl H., assignor.)
Crouse-Hinds Company. (See Hastings, H. P., and Dossert, assignors.)
Crouse-Hinds Company. (See Schneider, August H., assignor.)
Crow, Martin E., Elkhart, Ind. Vehicle-frame brace. No. 1,342,623; June 8; v. 275; p. 249.
Crowder, Philip, North Weymouth, Mass. Appliance. No. 1,349,368; Aug. 10; v. 277; p. 294.
Crowe, David F., Latrobe, Pa. Window-seat. No. 1,347,016; July 20; v. 276; p. 454.
Crowe, John M., Covington, Ky. Batten-cleat. No. 1,332,824; Mar. 2; v. 272; p. 28.
Crowe, John M., Covington, Ky. Batten-cleat. No. 1,332,325; Mar. 2; v. 272; p. 28.
Crowe, Thomas, Hamilton, Ontario, Canada. Roller journal-bearing. No. 1,344,868; June 29; v. 275; p. 885.
Crowell, Charles H., Brooklyn, N. Y. Thread-reinforced-paper gummed tape. No. 1,351,374; Aug. 31; v. 277; p. 866.
Crowell, Erd V., Tulsa, Okla. Plug. No. 1,330,480; Feb. 10; v. 271; p. 234.
Crowell, Erd V., Tulsa, Okla. Gas-energy-control head for oil-wells. No. 1,354,027; Sept. 28; v. 278; p. 593.
Crowell, Erd V., Tulsa, Okla. Packer. No. 1,357,958; Nov. 9; v. 288; p. 206.
Crowell, Frederic N., Terrace Park, Ohio. Blotting-pad or blotter. No. 1,344,335; June 22; v. 275; p. 715.
Crowell, William de F., St. Louis, Mo. Clear-vision windshield for vehicles. No. 1,334,740; Mar. 23; v. 272; p. 642.
Crowell, William de F., St. Louis, Mo. Clear-vision windshield for vehicles. No. 1,361,281; Dec. 7; v. 281; p. 50.
Crowell, William J., Jr., Lebanon, Pa. Differential-pressure gage. No. 1,336,511; Apr. 13; v. 273; p. 211.
Crowell, William J., Jr., Wyncote, Pa. Ratio-meter. No. 1,336,512; Apr. 13; v. 273; p. 212.
Crower, John S. (See Neighbour, William W., assignor.)
Crowle, William J., Easton, Pa. Box-motion for looms. No. 1,351,099; Aug. 31; v. 277; p. 810.
Crowley, Clarence H. (See Hall, S. T., and Crowley.)
Crowley, Jerome A., Randolph, N. Y. Device for tabulating bonds and other securities. No. 1,347,325; July 20; v. 276; p. 515.
Crowley, John C., Toledo, Ohio. Apparatus for making sheet-glass. No. 1,342,533; June 8; v. 275; p. 233.
Crowley, Joseph P., Toledo, Ohio, assignor to The Libbey Owens Sheet Glass Company, Charleston, W. Va. Method of and apparatus for drawing continuous sheets of glass. No. 1,328,268; Jan. 20; v. 270; p. 358.
Crown Cork and Seal Company, The. (See Angus, Donald J., assignor.)
Crown Cork and Seal Company of Baltimore City, The (See Curtiss, Nathan A., assignor.)
Crown Cork and Seal Company of Baltimore City, The. (See La Porte, Norbert M., assignor.)
Crown Cork and Seal Company of Baltimore City. (See Taylor, Samuel W., assignor.)
Crown Maltose Company. (See Stutzke, Richard W. G., assignor.)
Crowther, David, Minneapolis, Minn. Fluid-pressure-reducing device. No. 1,360,504; Nov. 30; v. 280; p. 866.
Crowther, Henry M., Kingman, Ariz. Aeroplane safety-parachute and means of launching same from aeroplanes. No. 1,327,592; Jan. 6; v. 270; p. 133.
Crowther, Henry M., Kingman, Ariz. Spark-plug. No. 1,356,129; Oct. 19; v. 279; p. 423.
Crowther, Henry M., Kingman, Ariz. Spark-plug. No. 1,363,842; Dec. 28; v. 281; p. 701.
Crowther, Henry M., Kingman, Ariz. Spark-plug. No. 1,363,843; Dec. 28; v. 281; p. 702.
Croxson, Edward C. S. (See Spicer, G., and Croxson.)
Croy, John O., Washington, D. C. Automatic pistol. No. 1,360,188; Nov. 23; v. 280; p. 735.
Crozier, Alfred O., New York, N. Y. Machine for making cementitious products. No. 1,330,172; Feb. 10; v. 271; p. 186.
Crozier, Alfred O., New York, N. Y. Apparatus for making hollow concrete bricks and other articles. No. 1,340,824; May 18; v. 274; p. 541.
Crozier, Alfred O., New York, N. Y. Machine for making hollow concrete articles. No. 1,358,419; Nov. 9; v. 280; p. 298.
Crozier, John A., Knoxville, Iowa. Window-bracket. No. 1,327,025; Jan. 6; v. 270; p. 28.
Cru Patents Corporation. (See Uebelmesser, Charles, assignor.)
Cru Patents Corporation. (See Wenderhold, William, assignor.)
Cruice, Richard J., *et al.* (See Calcaterra, Joseph, assignor.)
Cruickshank, Alexander, Matsqui, British Columbia, Canada. Cattle-guard. No. 1,342,014; June 1; v. 275; p. 79.
Cruikshank, J. W., Engineering Company. (See Cruikshank, James W., assignor.)
Cruikshank, James W., assignor to J. W. Cruikshank Engineering Company, Pittsburgh, Pa. Apparatus for supplying and grading abrasives to glass-grinding machines. No. 1,343,710; June 15; v. 275; p. 528.
Cruikshank, James W., assignor to J. W. Cruikshank Engineering Company, Pittsburgh, Pa. Supplying and grading sand to glass-grinding machines. No. 1,343,711; June 15; v. 275; p. 528.
Crum, Winfield S., Wilkinson, Ind. Therapeutic bath-cabinet. No. 1,358,060; Nov. 9; v. 280; p. 226.
Crumb, John H., Lawrence, Kans. Car-door. No. 1,363,177; Dec. 21; v. 281; p. 532.
Crumbaugh, Hallie V. D., Terrell, Tex. Thread-box. No. 1,354,598; Oct. 5; v. 279; p. 30.
Crume, George O., Jr. (See Smith, H. S., and Crume.)
Crumley, Birdie A., Hylton, Tex. Horseshoeing device. No. 1,332,809; Mar. 2; v. 272; p. 121.
Crumlish, John, Philadelphia, Pa. Milk-bottle-retaining device. No. 1,363,397; Dec. 28; v. 281; p. 614.
Crummey, Frederick E., assignor to Bean Spray Pump Co., San Jose, Calif. Spray-gun. No. 1,328,721; Jan. 20; v. 270; p. 443.
Crummey, Henry C. (See Crummey, Willie H., assignor.)
Crummey, Willie H., assignor of one-half to H. C. Crummey, Baxley, Ga. Compound tool. No. 1,344,264; June 22; v. 275; p. 701.
Crump, Eugene G., assignor to Perfection Rubber-Metal Horseshoe Co., Akron, Ohio. Horseshoe. No. 1,334,438; Mar. 23; v. 272; p. 586.
Crump, Harry, Auckland, New Zealand. Extension-table. No. 1,338,558; Apr. 27; v. 273; p. 744.
Crumpacker, Jay, McPherson, Kans. Automatic nailing-hammer. No. 1,348,544; Aug. 3; v. 277; p. 80.
Crumpton, William J., Evanston, Ill. Interrupter spark-suppression method and device. No. 1,350,300; Aug. 24; v. 277; p. 593.
Crumpton, William J., Evanston, Ill., assignor to W. R. Heath, Buffalo, N. Y. Register. No. 1,349,049; Aug. 10; v. 277; p. 230.
Crunican, Alphonsus M., London, Ontario, Canada. Cushioning-spring support for vehicles. No. 1,357,959; Nov. 9; v. 280; p. 206.
Cruse, Amandus H., assignor to R. Hoe and Co., New York, N. Y. Regulating apparatus for burners. No. 1,357,960; Nov. 9; v. 280; p. 206.
Crush, Ernest H., Bickley, England. Gas-producer. No. 1,349,497; Aug. 10; v. 277; p. 319.
Crush, William G., Muskogee, Okla. Apparatus for vulcanizing tires. No. 1,357,617; Nov. 2; v. 280; p. 78.
Cruttenden, Henry L., Northfield, Minn. Dental-cement-injecting tube. No. 1,341,736; June 1; v. 275; p. 24.
Cruver M'f'g Co. (See Grady, Thomas H., assignor.)
Cruver Manufacturing Company. (See Keplinger, George B., assignor.)
Cruver Manufacturing Company. (See Wohlhuter, Marius Z., assignor.)
Cryder, Floyd E., Chicago, Ill. Milk-sterilizing apparatus. No. 1,328,722; Jan. 20; v. 270; p. 443.
Csanyi, Henry, New York, N. Y. Producing charges for power devices. No. 1,338,836; Mar. 16; v. 272; p. 426.
Csanyi, Henry, New York, N. Y. Producing charges for power devices. No. 1,338,837; Mar. 16; v. 272; p. 426.
Csanyi, Henry, New York, N. Y. Producing charges for power devices. No. 1,338,838; Mar. 16; v. 272; p. 427.
Csanyi, Henry, New York, N. Y. Projectile-firing. No. 1,358,296; Nov. 9; v. 280; p. 272.
Cuau, Charles, Paris, France. Construction of radiators for cooling the circulating water in explosion-motors. No. 1,353,322; Sept. 21; v. 278; p. 409.
Cucchiara, Giovanni S., Needham, Mass. Non-skid appliance. No. 1,361,022; Dec. 7; v. 281; p. 8.
Cuendet, Maurice, Cordex par Vich, Switzerland. Vise. No. 1,345,665; July 6; v. 276; p. 66.
Cuevas, Ursin L., Cuevas, Miss. Spark-plug. No. 1,334,135; Mar. 16; v. 272; p. 488.
Cuke, Duncan A., and F. J. Twilley, Montreal, Quebec, Canada. Shipping-tag. No. 1,347,212; July 20; v. 276; p. 492.
Culberson, Alonzo A., Topeka, Kans. Resilient tire. No. 1,343,766; June 15; v. 275; p. 639.
Culbertson, James C., Chester, Pa. Folding bed. No. 1,359,337; Nov. 16; v. 280; p. 522.
Culkin, John L., Chatsworth, Ill. Shock forming and making machine. No. 1,361,307; Dec. 7; v. 281; p. 65.

Digitized by Google

Cullen, J. F., Midvale, and M. J. Udy, Salt Lake City, Utah, assignors to United States Smelting, Refining & Mining Company. Extracting bismuth. No. 1,360,271; Nov. 30; v. 280; p. 820.
Cullen, John A. (See Cameron, F. K., Cullen, and Hyde.)
Cullen, John A., Washington, D. C. Treating alkali-metal-salt mixtures. No. 1,363,091; Dec. 21; v. 281; p. 516.
Cullen, John A., Washington, D. C. Treating alkali-metal-salt mixtures. No. 1,363,092; Dec. 21; v. 281; p. 516.
Cullerton, William J. (See Holst, Charles T., assignor.)
Culleton, Robert A., and D. J. Leahy, Brooklyn, N. Y. Gas-meter. No. 1,351,842; Sept. 7; v. 278; p. 25.
Culley, Ralph H. (See Manthey, Otto J., assignor.)
Culligan, John C., Bombay, N. Y. Package-tie. No. 1,352,357; Sept. 7; v. 278; p. 123.
Cullin, Jasper F., assignor, by mesne assignments, to W. J. Hartwig, Detroit, Mich. Device for testing pole-windings. No. 1,345,075; June 29; v. 275; p. 923.
Cullin, Jasper F., assignor to W. J. Hartwig, Detroit, Mich. Field-coil-testing device. No. 1,346,592; July 13; v. 276; p. 311.
Cullin, Jasper F., assignor, by mesne assignments, to W. J. Hartwig, Detroit, Mich. Device for undercutting commutator insulation. No. 1,356,810; Oct. 26; v. 279; p. 603.
Culling, Merritt A., assignor to Buffum Tool Company, Louisiana, Mo. Taper-turning tool. No. 1,329,265; Jan. 27; v. 270; p. 575.
Cullman, Otto, Chicago, Ill. Holder for phonographic disk records. No. 1,327,949; Jan. 13; v. 270; p. 261.
Cully, Henry J., Modoc, Kans. Irrigation-dam. No. 1,356,268; Oct. 19; v. 279; p. 451.
Cully, Marie J., Chicago, Ill. Hair-waving device. No. 1,329,378; Feb. 3; v. 271; p. 7.
Culp, Ernest M., Paterson, N. J. Pump. No. 1,357,544; Nov. 2; v. 280; p. 64.
Cultitractor Company. (See Stahl, Michael, assignor.)
Culver, Albert V., assignor of one-half to W. A. Waddell, Frankfort, Ind. Weather-strip. No. 1,354,729; Oct. 5; v. 279; p. 56.
Culver, Charles B., Cherry Valley, Ill. Tread-mill play-cart. No. 1,350,546; Aug. 24. v. 277; p. 642.
Culver, Frank E., Port Clinton, Ohio. Retarder for calcium-sulfate products. No. 1,330,058; Feb. 10; v. 271; p. 165.
Culver, Lewis O., and J. B. Wills, West Pittston, Pa.; said Wills assignor to said Culver. Truck. No. 1,340,378; May 18; v. 274; p. 457.
Culverwell, George H., and G. S. Cox, Oak Park, Ill. Closure for barrels. No. 1,359,874; Nov. 23; v. 280; p. 673.
Cumberland, Joseph F., Clifton Heights, Pa. Shuttle-guard device. No. 1,364,038; Dec. 28; v. 281; p. 738.
Cumfer, Harry A., Chicago, Ill. Pipe-fitting. No. 1,349,663; Aug. 17; v. 277; p. 424.
Cummer, F. D., & Son Company, The. (See Cummer, Frederick H., assignor.)
Cummer, Frederick H., asignor to The F. D. Cummer & Son Company, Cleveland, Ohio. Asphalt-mixing apparatus. No. 1,329,506; Feb. 3; v. 271; p. 31.
Cummings, B. F., Perforator Company, The. (See Swanson, Hjalmar, assignor.)
Cummings, Dickinson S. (See Pierce, John, Jr., assignor.)
Cummings, Edward L., Waterford, assignor to Putnam Knitting Company, Cohoes, N. Y. Sinker mechanism for knitting-machines. No. 1,334,597; Mar. 23; v. 272; p. 616.
Cummings, George C., East Orange, N. J. Electromagnet. No. 1,333,247; Mar. 9; v. 272; p. 255.
Cummings, George C., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraphy. No. 1,352,116; Sept. 7; v. 278; p. 78.
Cummings, Henry H. (See Thompson, J. T., and Cummings.)
Cummings, Henry H., Boston, Mass. Counter and indicator. No. 1,363,846; Dec. 28; v. 281; p. 702.
Cummings, Henry H., Newton, Mass., assignor of one-half to J. T. Thompson, Newport, Ky., and one-half to T. F. Ryan, New York, N. Y. Gun lubrication. No. 1,351,626; Aug. 31; v. 277; p. 916.
Cummings, J. W. (See Campbell, Roy L., assignor.)
Cummings, Rezin H., Topeka, Kans. Cistern-filter. No. 1,337,595; Apr. 20; v. 273; p. 493.
Cummings, Wilbur E., Hollywood, Calif. Auto spring-bed. No. 1,349,268; Aug. 10; v. 277; p. 274.
Cummings, William H., Philadelphia, Pa. Envelop. No. 1,357,961; Nov. 9; v. 280; p. 206.
Cummins, James S. (See Ballard, William N., assignor.)
Cummins, Louie E., Walthill, Nebr. Pliers. No. 1,331,246; Feb. 17; v. 271; p. 456.
Cummins, William R., Glasgow, Scotland. Internal-combustion engine. No. 1,345,911; July 6; v. 276; p. 115.
Cunard, Frederic W., Liverpool, England. Self-propelled tank or redoubt for military use. No. 1,342,943; June 8; v. 275; p. 314.
Cundari, Dominick, assignor of one-half to F. Pitaro, New York, N. Y. Attachment for clotheslines. No. 1,332,611; Mar. 2; v. 272; p. 84.
Cunliffe, Cicero M., assignor to American Blower Company, Detroit, Mich. Apparatus for treating painted or varnished articles. No. 1,327,313; Jan. 6; v. 270; p. 80.
Cunliffe, Cicero M., assignor to American Blower Company, Detroit, Mich. Treating painted or varnished articles. No. 1,327,314; Jan. 6; v. 270; p. 81.
Cunniff, Edward A., New Bedford, J. V. Cunniff, Fall River, and J. K. Lanning, Boston, Mass.; said E. A. Cunniff and said J. V. Cunniff assignors to said J. K. Lanning. Weft-replenishing loom. No. 1,341,883; June 1; v. 275; p. 53.
Cunniff, John V. (See Cunniff, E. A. and J. V., and Lanning.)
Cunningham, Albert P. (See Rece, Frank S., assignor.)
Cunningham, Allan, Seattle, Wash. Hollow-base electric winch. No. 1,356,131; Oct. 19; v. 279; p. 434.
Cunningham, Clyde L., Perris, Calif. Tire. No. 1,353,726; Sept. 21; v. 278; p. 490.
Cunningham, John, Ukiah, Calif. Truss. No. 1,345,139; June 29; v. 275; p. 936.
Cunningham, John A., Bethlehem, Pa. Match-lighter. No. 1,341,785; June 1; v. 275; p. 34.
Cunningham, John S., Des Moines, Iowa. Clutch-pedal lock. No. 1,347,252; July 20; v. 276; p. 501.
Cunningham, Michael F., *et al.* (See McGrath, Lawrence A., assignor.)
Cunningham, Paul B., U. S. Army. Military rifle. No. 1,344,991; June 29; v. 275; p. 907.
Cunningham, Thomas, Philadelphia, Pa. Yarn-waxing device. No. 1,350,007; Aug. 17; v. 277; p. 490.
Cunnyngham, Victor L., Chicago, Ill. Advertising record-chart. No. 1,348,349; Aug. 3; v. 277; p. 43.
Cuno, Charles F., Meriden, Conn. Electric cigar-lighter. No. 1,346,368; July 13; v. 276; p. 267.
Cuno, Charles F., assignor to Cuno Engineering Corporation, Meriden, Conn. Automatic switch for cigar-lighters, etc. No. 1,342,015; June 1; v. 275; p. 79.
Cuno, Charles F., Meriden, Conn. Automatic switch for cigar-lighters, &c. No. 1,355,943; Oct. 19; v. 279; p. 886.
Cuno Engineering Corporation. (See Cuno, Charles F., assignor.)
Cupp, Harry N., Mars, assignor of one-half to T. G. Monahan, Pittsburgh, Pa. Valve. No. 1,349,605; Aug. 17; v. 277; p. 413.
Curless, James M., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electric heater. No. 1,328,723; Jan. 20; v. 270; p. 443.
Curless, W. A. (See Smith, Michael J., assignor.)
Curlin, Charles W. (See Curlin, Seth, assignor.)
Curlin, Seth, Hickman, Ky. Garment-fastener. No. 1,334,280; Mar. 16; v. 272; p. 500.
Curlin, Seth, assignor to C. W. Curlin, Hickman, Ky. Garment-fastener. No. 1,334,598; Mar. 23; v. 272; p. 616.
Curliss, Edgar S., Cincinnati, Ohio. Portable lavatory. No. 1,358,937; Nov. 16; v. 280; p. 446.
Curme, Henry R., Pittsburgh, Pa., assignor to Union Carbide Company, New York, N. Y. Making ethyl sulfates. No. 1,339,947; May 11; v. 274; p. 319.
Curran, Edward T. (See Mayer, T. M., and Curran, assignors.)
Curran, Edward T., Detroit, Mich. Water-heater. No. 1,335,560; Mar. 30; v. 272; p. 857.
Curran, Edward T., Detroit, Mich. Burner for gaseous fuels. No. 1,337,824; Apr. 20; v. 273; p. 536.
Curran, Edward T., Detroit, Mich. Radiator. No. 1,352,584; Sept. 14; v. 278; p. 204.
Curran, Frank, Susquehanna, Pa. Locomotive and car wheel gage. No. 1,347,684; July 27; v. 276; p. 643.
Curran, Patrick, Chicago Heights, Ill. Flytrap. No. 1,333,470; Mar. 9; v. 272; p. 297.
Curran, William, Lewiston, Me., assignor of one-third to P. F. Tremblay, Lewiston, and one-third to H. W. Oakes, Auburn, Me. Let-off-rod operator. No. 1,353,727; Sept. 21; v. 278; p. 490.
Curran, William F., Annapolis, Md. Sanitary drinking-fountain. No. 1,339,322; May 4; v. 274; p. 124.
Curren, Harold S. (See Hughes, A. H., and Curren.)
Current, George E., Mogollon, N. Mex. Rotary engine. No. 1,343,115; June 8; v. 275; p. 348.
Currey, Charles F., Topeka, Kans. Windmill. No. 1,341,045; May 25; v. 274; p. 655.
Currie, Alfred C., St. John, New Brunswick, Canada. Game-board. No. 1,327,907; Jan. 13; v. 270; p. 253.
Currie, Alexander L., Sorel, Quebec, Canada. Track-signal. No. 1,361,308; Dec. 7; v. 281; p. 65.
Currie, Alexander L., Sorel, Quebec, Canada. Track-signal. No. 1,361,309; Dec. 7; v. 281; p. 65.
Currier, Arthur L., Newton Highlands, assignor to The J. W. Moore Machine Company, Boston, Mass. Button-carding machine. No. 1,344,679; June 29; v. 275; p. 848.
Currier, Burleigh. (See Bartlett, Percy H., assignor.)
Currier, George A., St. Louis, Mo. Rotary plow. No. 1,349,875; Aug. 17; v. 277; p. 465.
Currie, James J., Bonnington Falls, British Columbia, Canada. Washboard. No. 1,356,973; Oct. 26; v. 279; p. 635.
Currie, John, and H. W. Bell, Seattle, Wash. Dust-cap for pneumatic valves. No. 1,353,125; Aug. 14; v. 278; p. 310.
Currier, Alfred M., Aberdeen, Wash. Circular saw. No. 1,357,030; Oct. 26; v. 279; p. 647.

Digitized by Google

Alphabetical list of patentees—Continued.

Currier, Hiram D., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Pole-changer. No. 1,330,059; Feb. 10; v. 271; p. 165.
Currier, Hiram D., Chicago, and H. W. Bryce, Downers Grove, assignors to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system with automatic ringing and automatic busy. No. 1,354,891; Oct. 5; v. 279; p. 89.
Currier, Howard S., Detroit, Mich. Transmission-lock. No. 1,328,724; Jan. 20; v. 270; p. 443.
Curry, Charles M., Paducah, Ky. Flytrap. No. 1,341,416; May 25; v. 274; p. 727.
Curry, David, New York, N. Y. Guard for printing-presses. No. 1,351,997; Sept. 7; v. 278; p. 56.
Curry, George, Altoona, Pa. Toy. No. 1,345,140; June 29; v. 275; p. 936.
Curry, J. P. M'f'g Co. Inc. (See Foulder, Henry B., assignor.)
Curry, Malcolm, Scarsdale, N. Y., assignor of one-half to S. H. Barnum, New Haven, Conn. Observation-window for furnaces. No. 1,349,562; Aug. 17; v. 277; p. 405.
Curry, Thomas E., Mobile, Ala. Radius-rod. No. 1,362,681; Dec. 21; v. 281; p. 436.
Curry, Thomas J., Netherton, near Dudley, assignor to N. Hingley & Sons, Limited, Dudley, England. Making forged anchors. No. 1,331,095; Feb. 17; v. 271; p. 428.
Curry, William. (See Seidenburg, Charles L., assignor.)
Curry, William J., Nettleton, Miss. Muck-shoe. No. 1,343,436; June 15; v. 275; p. 473.
Curry, William P., Syracuse, N. Y. Machine for cutting bevels. No. 1,336,731; Apr. 13; v. 273; p. 255.
Curtain Supply Company, The. (See Schneider, George, assignor.)
Curtainless Shower Company. (See Pitcher, Hugh B., assignor.)
Curtin, Andrew F., Medford, Mass. Water-closet installation. No. 1,332,660; Mar. 2; v. 272; p. 93.
Curtin, David F., Chicago, Ill. Dispenser for paper-cup blanks. No. 1,337,392; Apr. 20; v. 273; p. 454.
Curtin, Frank, assignor to Curtin-Hebert Company, Inc., Gloversville, N. Y. Hosiery-tipping plate. No. 1,349,410; Aug. 10; v. 277; p. 302.
Curtin-Hebert Company. (See Curtain, Frank, assignor.)
Curtin, John W., Worcester, Mass. Nut-lock. No. 1,352,053; Sept. 7; v. 278; p. 66.
Curtis, Arthur A., assignor of one-third to W. Lyons and one-third to F. W. Rathburn, Erie, Pa. Vacuum-container. No. 1,360,728; Nov. 30; v. 280; p. 910.
Curtis, Arthur P., assignor to Ithaca Gun Company, Ithaca, N. Y. Bolting mechanism for guns. No. 1,348,545; Aug. 3; v. 277; p. 80.
Curtis, Charles B. (See Karl, B. N., and Curtis.)
Curtis, Frederic A., assignor of three-fourths to J. C. Will and one-fourth to A. Wanner, Toledo, Ohio. Clothes-hanging means. No. 1,357,383; Nov. 2; v. 280; p. 35.
Curtis, George V., West Springfield, Mass. Cabinet for phonograph disk records. No. 1,362,235; Dec. 14; v. 281; p. 298.
Curtis, Harry D., Red Bank, N. J. Hat-size reducer. No. 1,351,893; Sept. 7; v. 278; p. 36.
Curtis, Henry A., Pomeroy, Ohio. Hoist. No. 1,357,150; Oct. 26; v. 279; p. 670.
Curtis, Henry H., North Attleboro, Mass. Belt-clasp. No. 1,356,517; Oct. 26; v. 279; p. 546.
Curtis, Jasper, Bonita, La. Handle and implement coupling. No. 1,331,806; Feb. 24; v. 271; p. 582.
Curtis, Jesse T., assignor of one-third to F. L. McClure and one-third to F. F. Le Fevre, Sebring, Ohio. Signal-operating means. No. 1,346,703; July 13; v. 276; p. 338.
Curtis, Stanley R., Royal Oak, Mich. Drinking-fountain. No. 1,346,006; July 6; v. 276; p. 434.
Curtis, Walter L., Springfield, Mass. Die for making double-ended rivets. No. 1,327,525; Jan. 6; v. 270; p. 121.
Curtis, Will E., Evanston, Ill. Device for regulating treatment of substances chronometrically. No. 1,355,817; Oct. 19; v. 279; p. 361.
Curtiss Aeroplane and Motor Corporation. (See Burgess, William S., assignor.)
Curtiss Aeroplane and Motor Corporation. (See Curtiss, Glenn H., assignor.)
Curtiss Aeroplane and Motor Corporation. (See Curtiss, Glenn H., and Gilmore.)
Curtiss Aeroplane & Motor Corporation. (See Dalton, Nelson W., assignor.)
Curtiss Aeroplane and Motor Corporation. (See Gilmore, W. L., and Meade, assignors.)
Curtiss Aeroplane and Motor Corporation. (See Kemble, Thomas S., assignor.)
Curtiss Aeroplane and Motor Corporation. (See Kirkham, Charles B., assignor.)
Curtiss Aeroplane and Motor Corporation. (See Kirkham, C. B., and Thurston, assignors.)
Curtiss Aeroplane and Motor Corporation. (See Kleckler, Henry, assignor.)
Curtiss Aeroplane and Motor Corporation. (See Meade, J. F., and Church, assignors.)
Curtiss Aeroplane and Motor Corporation. (See Musson, Edward T., assignor.)
Curtiss Aeroplane and Motor Corporation. (See Tarbox, John P., assignor.)
Curtiss Aeroplane and Motor Corporation. (See Zimmerman, Paul G., assignor.)
Curtiss, Charles E., Clinton, Wis. Tillage-blade. No. 1,336,821; Apr. 13; v. 273; p. 272.
Curtiss, Glenn H., Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Flying-boat hull. No. 1,329,336; Jan. 27; v. 270; p. 587.
Curtiss, Glenn H., assignor to Curtiss Aeroplane & Motor Corporation, Buffalo, N. Y. Hydro-aircraft. No. 1,355,736; Oct. 12; v. 279; p. 305.
Curtiss, Glenn H., Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Tripod flying-boat. No. 1,358,527; Nov. 9; v. 280; p. 319.
Curtiss, Glenn H., Buffalo, N. Y., assignor to Curtiss Aeroplane & Motor Corporation. Airplane-fitting. No. 1,363,844; Dec. 28; v. 281; p. 702.
Curtiss, Glenn H., assignor to Curtiss Aeroplane and Motor Corporation, Garden City, N. Y. Airplane-wing-structure truss. No. 1,351,743; Sept. 7. v. 278; p. 6.
Curtiss, Glenn H., Hammondsport, assignor, by mesne assignments, to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Lubricating system for traveling motors. No. 1,329,038; Jan. 27; v. 270; p. 532.
Curtiss, Glenn H., and H. Kleckler, assignors to Curtiss Aeroplane & Motor Corporation, Buffalo, N. Y. Flying-boat construction. No. 1,351,742; Sept. 7; v. 278; p. 5.
Curtiss, Glenn H., and W. L. Gilmore, Garden City, assignors, by mesne assignments, to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Hydro-aero machine. No. 1,363,845; Dec. 28; v. 281; p. 702.
Curtiss, Nathan A., assignor to The Crown Cork and Seal Company of Baltimore City, Baltimore, Md. Packaging-machine. No. 1,354,599; Oct. 5; v. 279; p. 30.
Curtright, Caskie. (See Greer, J. K., and Curtright.)
Curttright, George L., Olin, Iowa. Hog-oiler. No. 1,327,088; Jan. 6; v. 270; p. 39.
Curwen, Samuel M., assignor to The J. G. Brill Company, Philadelphia, Pa. Car-seat. No. 1,361,690; Dec. 7; v 281; p. 143.
Curzon, Michael. (See Valente, A., and Curzon.)
Curzon, Samuel. (See Valente, A., and Curzon.)
Cushing, William F., Peoria, Ill. Clothesline. No. 1,360,189; Nov. 23; v. 280; p. 736.
Cushing, William T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Molding composite materials. No. 1,358,297; Nov. 9; v. 280; p. 272.
Cushion Spring Engineering Corporation. (See Hunt, Ozello R., assignor.)
Cushman, Allerton S., Washington, D. C. Removing ink and other stains from cloth, paper, &c. No. 1,361,833; Dec. 14; v. 281; p. 217.
Cushman, Edward L., Miami, Fla. Slug. No. 1,328,725; Jan. 20; v. 270; p. 444.
Cushman, Everett B., Topeka, Kans. Splash-lubricating system. No. 1,347,685; July 27; v. 276; p. 643.
Cushman, Sarah W., Norwich, N. Y. Garment-button. No. 1,348,629; Aug. 3; v. 277; p. 97.
Cusick, Patrick H., Oregon, Wis. Radiator. No. 1,328,789; Jan. 20; v. 270; p. 456.
Cusick, Wilfred L., Follansbee, W. Va. Building-block. No. 1,334,599; Mar. 23; v. 272; p. 616.
Cussen, Daniel C., Antwerp, Ohio. Rail-joint. No. 1,329,507; Feb. 3; v. 271; p. 31.
Custenborder, John M., Mackinaw, Ill. Tractor steering device. No. 1,348,630; Aug. 3; v. 277; p. 97.
Custer, Clemm T., Martinsburg, W. Va. Safety cranking device. No. 1,360,190; Nov. 23; v. 280; p. 736.
Cutburth, Fred A., Wichita, Kans. Bottle-carrier. No. 1,355,214; Oct. 12; v. 279; p. 205.
Cuthbert, John, Company. (See Cuthbert, John, assignor.)
Cuthbert, John, assignor to John Cuthbert Company, Chicago, Ill. Metering-panel. No. 1,360,371; Nov. 30; v. 280; p. 839.
Cuthbert, John, assignor to John Cuthbert Company, Chicago, Ill. Panel-board. No. 1,360,372; Nov. 30; v. 280; p. 839.
Cuthbert, John, assignor to John Cuthbert Company, Chicago, Ill. Panel-board. No. 1,360,373; Nov. 30; v. 280; p. 839.
Cuthbert, John, assignor to John Cuthbert Company, Chicago, Ill. Cabinet structure for panel-boards. No. 1,360,374; Nov. 30; v. 280; p. 839.
Cutler, Cecil, and D. F. Morand; said Cutler assignor to E. Verey, Sydney, New South Wales, Australia. Loose-leaf binder. No. 1,346,180; July 13; v. 276; p. 230.
Cutler, Charles A., Adrian, Mich. Animal-poke. No. 1,349,324; Aug. 10; v. 277; p. 285.
Cutler, Clifford A., Buffalo, N. Y. Relative-humidity-controlling means. No. 1,340,939; May 25; v. 274; p. 634.
Cutler, Clifford A., Buffalo, N. Y. Drying-kiln. No. 1,341,884; June 1; v. 275; p. 53.
Cutler-Hammer Mfg. Co., The. (See Barnum, Thomas E., assignor.)
Cutler-Hammer Mfg. Co., The. (See Comiskey, Stanley A., assignor.)
Cutler-Hammer Mfg. Co., The. (See Cushing, William F., assignor.)
Cutler-Hammer Mfg. Co., The. (See Date, William E., assignor.)
Cutler-Hammer Mfg. Co., The. (See Evans, Clarence T., assignor.)

Digitized by Google

Cutler-Hammer Mfg. Co., The. (See Fernow, Bernard E., Jr., assignor.)
Cutler-Hammer Mfg. Co., The. (See Henderson, Clark T., assignor.)
Cutler-Hammer Mfg. Co., The. (See Holder, William H., assignor.)
Cutler-Hammer Mfg. Co., The. (See Klein, Charles J., assignor.)
Cutler-Hammer M'f'g Co., The. (See Lent, Wilmar F., assignor.)
Cutler-Hammer Mfg. Co., The. (See Lightfoot, Edwin N., assignor.)
Cutler-Hammer Mfg. Co., The. (See Meyer, Friedrich W., assignor.)
Cutler-Hammer Mfg. Co., The. (See Parker, Frank I., assignor.)
Cutler-Hammer Mfg. Co. (See Reisbach, Gustave B., assignor.)
Cutler-Hammer Mfg. Co., The. (See Richardson, Linwood T., assignor.)
Cutler-Hammer Mfg. Co., The. (See Sedgwick, H. A., and Kummer, assignors.)
Cutler-Hammer Mfg. Co., The. (See Simon, Arthur, assignor.)
Cutler-Hammer Mfg. Co., The. (See Stevens, William C., assignor.)
Cutler-Hammer Mfg. Co., The. (See Stoekle, Erwin R., assignor.)
Cutler-Hammer Mfg. Co., The. (See Thomas, Carl C., assignor.)
Cutler-Hammer Mfg. Co., The. (See Tregoning William C., assignor.)
Cutler-Hammer Mfg. Co., The. (See Yerger, Charles W., assignor.)
Culter & Proctor Stove Co. (See Sass, Fred J., assignor.)
Cutler, William C., North Glendale, Calif. Card-receptacle. No. 1,328,035; Jan. 13; v. 270; p. 277.
Cutler, William C., North Glendale, Calif. Card-suspending device. No. 1,348,546; Aug. 3; v. 277; p. 81.
Cutler, William C., North Glendale, Calif. Antiskid device. No. 1,352,403; Sept. 7; v. 278; p. 131.
Cutler, William C., North Glendale, Calif. Directory machine. No. 1,352,416; Sept. 7; v. 278; p. 134.
Cutler, William C., North Glendale, Calif. Directory-machine. No. 1,353,458; Sept. 21; v. 278; p. 435.
Cutler, William C., North Glendale, Calif. Underreamer. No. 1,358,298; Nov. 9; v. 280; p. 272.
Cutler, William C., North Glendale, Calif. Underreamer. No. 1,358,299; Nov. 9; v. 280; p. 273.
Cutler, William C., North Glendale, Calif. Underreamer. No. 1,363,178; Dec. 21; v. 281; p. 532.
Cutler, William F., Oakland, assignor of one-half to Captain P. Verdier, San Francisco, Calif. Electric water-heater. No. 1,337,120; Apr. 13; v. 273; p. 329.
Cutten, Elisha B., Kokomo, Ind. Electrolyzing cobalt solutions. No. 1,344,869; June 29; v. 275; p. 885.
Cutter, George A., Dedham, assignor to Thomson Spot Welder Company, Boston, Mass. Joining metal. No. 1,330,241; Feb. 10; v. 271; p. 199.
Cutter, John D., assignor to Climax Molybdenum Company, Brooklyn, N. Y. Case-hardening steel. No. 1,358,831; Nov. 16; v. 280; p. 425.
Cutter, William O., East Wareham, Mass. Torpedo-boat. No. 1,355,894; Oct. 19; v. 279; p. 377.
Cutting, Charles H., Alameda, Calif. Milk-strainer. No. 1,349,120; Aug. 10; v. 277; p. 244.
Cutting, Fulton, Tuxedo Park, N. Y., and B. Washington, Cambridge, Mass. Wireless telegraphy. No. 1,345,352; July 6; v. 276; p. 5.
Cutting, George A., South Paris, Me. Garment-hanger. No. 1,334,891; Mar. 23; v. 272; p. 672.
Cuttrell, William H. (See Rothwell, R., and Cuttrell.)
Cuyler, Edward H., and M. B. Patterson, assignors, by mesne assignments, to The Pacific R & H Chemical Corporation, Los Angeles, Calif. Apparatus for gasifying liquids. No. 1,336,822; Apr. 13; v. 273; p. 272.
Cuzen, Robert L., Plainfield, N. J. Phonograph-lamp attachment. No. 1,343,767; June 15; v. 275; p. 539.
Cyclomotor Corporation. (See Madden, B. L., and Evans, assignors.)
Cyclone Fence Company. (See Harter, Noah S., assignor.)
Cyclone Manufacturing Company, The. (See Speicher, Daniel E., assignor.)
Cypert, Joseph A., Kansas City, Mo. Comb. No. 1,340,379; May 18; v. 274; p. 457.
Czaran, Otto, Long Island City, N. Y. Splicing device for joining the ends of belts. No. 1,362,604; Dec. 21; v. 281; p. 420.
Czarniecki, Andrew, Plymouth, Pa. Attachment for wick-lamps. No. 1,345,141; June 29; v. 275; p. 936.
Czarnecki, Wladyslaw. (See Murphy, T. W., and Czarnecki.)
Czechowicz, Alexander K., Alden Station, Pa. Lady's combination undergarment. No. 1,343,038; June 8; v. 275; p. 333.
Czechowicz, Jacob, Terre Haute, Ind. Trolley-harp. No. 1,356,045; Oct. 19; v. 279; p. 406.
Czechowicz, Jacob, Terre Haute, assignor of one-half to S. Maciejewski, Clinton, Ind. Carpet-sweeper. No. 1,332,429; Mar. 2; v. 272; p. 49.
Czicziriga, Szilard, Coatesville, Pa. Swimming apparatus. No. 1,329,073; Jan. 27; v. 270; p. 539.
Czumpft, John, assignor to Art Woodwork Company, Brooklyn, N. Y. Curved wood tube and making same. No. 1,353,895; Sept. 28; v. 278; p. 566.
Czyzyk, Andrew, Grand Rapids, Mich. Furniture-caster. No. 1,337,344; Apr. 20; v. 273; p. 446.
D & L Mfg. Co. (See Dorn, H. C., and Luedke, assignors.)
Dabbs, Albert E. (See Hindle, A. H. Savage, Liddle, and Dabbs.)
Dabbs, Albert E., S. W. Savage, Manchester, and A. H. Hindle, Birmingham, assignors of one-eighth to A. Liddle, Manchester, and one-half to J. G. W. Gruban, Kingsway, London, England. Roller or ball bearing. No. 1,327,026; Jan. 6; v. 270; p. 28.
Dabbs, Albert E., Manchester, S. W. Savage, Choriton-cum-Hardy, and A. H. Hindle, Birmingham, assignors of one-eighth to A. Liddle, Manchester, and one-half to J. G. W. Gruban, Kingsway, London, England. Roller or ball bearing. No. 1,346,443; July 13; v. 276; p. 282.
Dabis, Carl G., Chicago, Ill. Pile and panel system for concrete construction. No. 1,362,852; Dec. 21; v. 281; p. 469.
Dabrowski, Joseph M., Brooklyn, N. Y., assignor to Moore Brothers Company, New York, N. Y. Liquid-soap dispenser. No. 1,349,121; Aug. 10; v. 277; p. 244.
Daccord, Auguste, New York, N. Y. Bottle-closure. No. 1,327,809; Jan. 13; v. 270; p. 285.
Da Costa, James S., Philadelphia, Pa., assignor of one-half to J. M. Alvey, Louisville, Ky. Pressure-controlled closure. No. 1,359,875; Nov. 23; v. 280; p. 673.
Dacunto, Nickolas, *et al.* (See Bremer, Russel H., assignor.)
Dady, Arthur O., New York, N. Y., assignor to Pfanstiehl Company, Inc., North Chicago, Ill. Ignition mechanism for internal-combustion engines. No. 1,329,508; Feb. 3; v. 271; p. 31.
Dady, Arthur O., New York, N. Y., assignor to Pfanstiehl Company, Inc., North Chicaco, Ill. Ignition mechanism for internal-combustion engines. No. 1,329,654; Feb. 3; v. 271; p. 57.
Dady, Arthur O., New York, N. Y., assignor to Pfanstiehl Company, Incorporated, North Chicago, Ill. Valve and cooling means. No. 1,332,865; Mar. 2; v. 272; p. 131.
Dady, Arthur O., New York, N. Y., assignor to Pfanstiehl Company, Incorporated, North Chicago, Ill. Valve and means for cooling same. No. 1,345,535; July 6; v. 276; p. 41.
Dagnall, Walter, Hampton Wick, England. Manufacturing parchment-paper. No. 1,334,843; Mar. 23; v. 272; p. 668.
Dagory, Alain E. A., Bois Colombes, France. Automatic removal of copper from ordnance. No. 1,359,338; Nov. 16; v. 280; p. 522.
Dagosteno, Augustine, New York, N. Y. Safety-brake. No. 1,343,116; June 8; v. 275; p. 348.
Dague, George W., Alexandria, La. Vehicle-wheel. No. 1,335,939; Apr. 6; v. 273; p. 44.
Dahl, Carl S., Duluth, Minn. Latch-hook. No. 1,358,708; Nov. 16; v. 280; p. 400.
Dahl, Emil, Minneapolis, Minn. Brace for correcting foot-angles. No. 1,340,700; May 18; v. 274; p. 519.
Dahl, Hjalmar O., Stockholm, Sweden. Draft-tube for turbines. No. 1,332,612; Mar. 2; v. 272; p. 84.
Dahl, Richard S., Charlottenlund, near Copenhagen, Denmark. Electrical commutator. No. 1,362,084; Dec. 14; v. 281; p. 268.
Dahlberg, B. G. (See Munroe, Treadway B., assignor.)
Dahlen, Martin O., Langham, Saskatchewan, Canada. Steering-gear. No. 1,332,161; Feb. 24; v. 271; p. 647.
Dahlgren, Charles J., East Orange, N. J. Garment hanger and stretcher. No. 1,331,419; Feb. 17; v. 271; p. 488.
Dahlke, Frederick J., Damascus, Ohio. Refrigerator. No. 1,349,369; Aug. 10; v. 277; p. 294.
Dahlmeyer, Karl O., Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Electrically-driven shaker molding-machine. No. 1,344,680; June 29; v. 275; p. 849.
Dahlstedt, Carl, Rockford, Ill. Valve-grinder. No. 1,338,212; Apr. 27; v. 273; p. 680.
Dahlstrom, Frank P., and Charles R. Sturdevant, Worcester, Mass., assignors to The American Steel and Wire Company of New Jersey. Brasing-car. No. 1,334,691; Mar. 23; v. 272; p. 633.
Dahlstrom, John J., Amite, La. Collapsible crate. No. 1,353,030; Sept. 14; v. 278; p. 292.
Dahne, Julius A., Stillwater, Minn. Scale. No. 1,345,587; July 6; v. 276; p. 51.
Dailey, Angus W. (See Stoddard, John G., assignor.)
Dailey, Charles E., Sr., Pittsburgh, Pa. Lamp-turning mechanism. No. 1,355,215; Oct. 12; v. 279; p. 205.
Dailey, David D., Atmore, Ala. Device for destroying boll-weevil moths. No. 1,341,706; June 1; v. 275; p. 18.
Dailey, Grover E., Rutland, Vt. Dental clamp. No. 1,358,300; Nov. 9; v. 280; p. 273.
Dailey, James W., Walkersville, Mont. Mayonnaise-mixers. No. 1,361,868; Dec. 7; v. 281; p. 78.
Dailey, John A., Burlington, Iowa. Pneumatic riveting-hammer. No. 1,360,897; Nov. 30; v. 280; p. 942.
Dailey, Roy A., Taft, Calif. Overshot. No. 1,351,744; Sept. 7; v. 278; p. 6.
Dain, A. L. (See Jones, Harry H., assignor.)

Digitized by Google

Dai-Nippon Enkei Shinju Kabushiki Kwaisha. (See Mise, Tatsuhei, assignor.)
Dain Manufacturing Company of Iowa. (See Bowers, Robert R., assignor.)
Daisy Manufacturing Company. (See Lefever, Charles F., assignor.)
Dake, Charles W., Chicago, Ill. Superheater. No. 1,360,096; Nov. 23; v. 280; p. 718.
Dakin, Isaac C., Owosso, Mich. Grain and food cooker. No. 1,339,323; May 4; v. 274; p. 124.
D'Albe, Edmund E. F. (See Barr, A., Stroud, and D'Albe.)
D'Albert, Henry T., Arlington, Va., assignor to G. Leet, Washington, D. C. Print-conveying conduit for cameras. No. 1,358,622; Nov. 9; v. 280; p. 338.
D'Albert, Henry T., Arlington, Va., assignor to G. Leet, Washington, D. C. Photographic exposure apparatus and conveying-conduit therefor. No. 1,358,623; Nov. 9; v. 280; p. 338.
Dalbey, James H., assignor to Elgin Rubber Ace Company, Elgin, Ill. Resilient core for tires. No. 1,351,894; Sept. 7; v. 278. p. 36.
Dalby, John, Pawtucket, R. I. Bobbin-winding machine. No. 1,343,768; June 15; v. 275; p. 539.
Dalby, John, Pawtucket, R. I., assignor, by mesne assignments, to Rhode Island Lace Works. Warp-winding device. No. 1,330,588; Feb. 10; v. 271; p. 262.
Dale, Glenn E., Great Falls, Mont. Vehicle-brake. No. 1,332,487; Mar. 2; v. 272; p. 60.
Dale, Horace G., Little Rock, Ark. Folding camp-stool. No. 1,338,124; Apr. 27; v. 273; p. 663.
Dale, Horace G., Little Rock, Ark. Folding camp-stool. No. 1,355,944; Oct. 19; v. 279; p. 386.
Dale, Hugh S., Pickens, Miss. Attachment for plows. No. 1,355,737; Oct. 12; v. 279; p. 306.
Dalén, Gustaf, Lidingön, Stockholm, Sweden. Apparatus for automatically opening and closing gas-conduits. No. 1,342,160; June 1; v. 275; p. 108.
Dalén, Gustaf, Lidingön, assignor to Svenska Aktiebolaget Gassaccumulator, Stockholm, Sweden. Search-light apparatus. No. 1,350,547; Aug. 24; v. 277; p. 642.
Dalén, Gustaf, Skärsätra, Lidingön, assignor to Aron Andersson, Stockholm, Sweden. Submarine floating body. No. 1,363,958; Dec. 28; v. 281; p. 723.
Dalen, Jacob S., Carbury, N. D. Agricultural implement. No. 1,329,888; Feb. 3; v. 271; p. 102.
Dales, William R., Philadelphia, Pa. Hat-retaining device. No. 1,354,892; Oct. 5; v. 279; p. 89.
Daley, Frank A. (See Freund, Herman R., assignor.)
Dalhaus, Adolf W., Quincy, Ill. Safety-holder. No. 1,357,151; Oct. 26; v. 279; p. 670.
Dalke, Edward C., Spokane, Wash., assignor of one-half to G. Hamp, Metaline Falls, Wash. Fire-escape. No. 1,357,962; Nov. 9; v. 280; p. 206.
Dallard, Lucien H., New York, N. Y. Vise. No. 1,340,477; May 18; v. 274; p. 476.
Dallas, William, Philadelphia, Pa. Cutter-clearance gage. No. 1,340,022; May 11; v. 274; p. 333.
Dallimore, George W., Oakland, Calif. Convertible freight-car. No. 1,336,682; Apr. 13; v. 273; p. 245.
Dallimore, George W., Oakland, Calif. Journal-box for roller-bearings. No. 1,358,420; Nov. 9; v. 280; p. 299.
Dalman, John W., Chicago, Ill. Producing yokes for draft-rigging. No. 1,340,528; May 18; v. 274; p. 485.
Dalmant, Sam N., Wetonka, S. D. Water-mill. No. 1,342,100; June 1; v. 275; p. 96.
Dalrymple, Philip W., Baltimore, Md. Tread. No. 1,347,253; July 20; v. 276; p. 501.
Dalrymple, William P., Chicago, Ill. Phonograph. No. 1,358,709; Nov. 16; v. 280; p. 400.
Dalton Adding Machine Company. (See Dalton and Magnus, assignors.)
Dalton, James L., and J. Magnus, Poplar Bluff, assignors to Dalton Adding Machine Company, St. Louis, Mo. Adding and recording machine. No. 1,328,822; Jan. 27; v. 270; p. 491.
Dalton, John B., Pittsburgh, Pa. Packaging ice-cream. (Reissue.) No. 14,887; June 22; v. 275; p. 770.
Dalton, Nelson W., Buffalo, N. Y., assignor to Curtiss Aeroplane & Motor Corporation. Aeroplane-wing structure. No. 1,355,738; Oct. 12; v. 279; p. 306.
Dalton, Nelson W., Buffalo, N. Y., assignor to Curtiss Aeroplane & Motor Corporation. Aeroplane. No. 1,363,847; Dec. 28; v. 281; p. 702.
Dalton, William R., Indianapolis, Ind. Front door for locomotive-cabs. No. 1,330,518; Feb. 10; v. 271; p. 251.
Daly, Ber J., administrator. (See Monahan, Louis J.)
Dalzell, Charles B., assignor to D. H. Burrell & Co., Little Falls, N. Y. Emulsifier. No. 1,363,572; Dec. 28; v. 281; p. 649.
Dalziel, Charles J. A., London, England. Recovering copper from its ores. No. 1,341,786; June 1; v. 275; p. 24.
Dalziel, Charles J. A., London, England. Extracting metals. No. 1,344,681; June 29; v. 275; p. 849.
Dam, Henry M. R., Brooklyn, N. Y., assignor to Franco Electric Corporation. Scale. No. 1,332,430; Mar. 2; v. 272; p. 49.
Damitz, Rineholdt H., Kennedy, Minn. Milk-pail. No. 1,327,704; Jan. 13; v. 270; p. 215.
Damker, William J. E., Dunellen, N. J. Stationary jack. No. 1,336,620; Apr. 13; v. 273; p. 238.
Dammann, Jurgen G., Ottawa, Ill. Fence-wire hanger and fencepost. No. 1,360,375; Nov. 30; v. 280; p. 839.
Damon, William H., Los Angeles, Calif. Automobile-lock. No. 1,328,619; Jan. 20; v. 270; p. 424.
Damon, William H., Los Angeles, Calif. Sun and rain shield for automobiles. No. 1,332,162; Feb. 24; v. 271; p. 647.
Damon, William H., Los Angeles, Calif. Theft-alarm for motor-vehicles. No. 1,332,613; Mar. 2; v. 272; p. 84.
Damon, William H., Los Angeles, Calif. Sun and rain shield for automobiles. No. 1,348,135; July 27; v. 276; p. 733.
Damon, William H., Los Angeles, Calif. Non-cumulative wax polish. (Reissue.) No. 14,930; Aug. 17; v. 277; p. 545.
Damschen, Gerhard P. A., Oconomowoc, Wis. Lightning-arrester. No. 1,338,213; Apr. 27; v. 273; p. 680.
Dana Colton Harvester Company. (See Skillins, John T., assignor.)
Dana, Edgar W., Platteville, Wis. Bottle-washer. No. 1,361,753; Dec. 7; v. 281; p. 155.
Dana, Homer J., Connell, Wash. Hydraulic stump splitter and puller. No. 1,330,687; Feb. 10; v. 271; p. 282.
Dana, Homer J., Pullman, Wash. Portable hydraulic power device. No. 1,343,117; June 8; v. 275; p. 349.
Dana, John J., Savannah, Ga. Tire for motor-vehicles. No. 1,338,290; Apr. 27; v. 273; p. 694.
Danaher, Cornelius, Philadelphia, Pa. Gas-lamp. No. 1,354,730; Oct. 5; v. 279; p. 56.
Danckwardt, Paul, Denver, Colo. Producing anhydrous aluminum chlorid. No. 1,343,662; June 15; v. 275; p. 518.
Dandoy, John J. (See McDonnell, George F., assignor.)
Dandy, Mike, Burdine, Ky. Sanding device. No. 1,349,606; Aug. 17; v. 277; p. 413.
Dane, John B., and C. S. Cannon, Elizabeth, N. J. Dollhead. No. 1,329,509; Feb. 3; v. 271; p. 32.
Danel, Joseph B. (See Roy, W. J., and Danel.)
Danforth, Harland A., Saugus, Mass. Shock-absorber. No. 1,352,724; Sept. 14; v. 278; p. 732.
Danglemeyer, Charles W., Dubuque, Iowa. Machine for forming spirals. No. 1,358,938; Nov. 16; v. 280; p. 446.
Daniel, Albert J., Boone, Iowa. Bottle-stopper. No. 1,338,494; Apr. 27; v. 273; p. 732.
Daniel, Benjamin F. (See Egeland, Peter O., assignor.)
Daniel, Dossey D., Richmond, Va. Attachment for motion-picture machines. No. 1,361,143; Dec. 7; v. 281; p. 32.
Daniels, Harry E., Fresno, Calif. Antiskidding device for automobiles, &c. No. 1,330,110; Feb. 10; v. 271; p. 175.
Daniell, Sven D. (See Kalling, B. M. S., and Daniell.)
Daniel, William A., assignor to J. B. Webb, San Antonio, Tex. Filter. No. 1,357,618; Nov. 2; v. 280; p. 79.
Daniel, Wojciech. (See Zaboy, Maciej, assignor.)
Daniele, Joseph, Needham, Mass. Door-stop. No. 1,354,469; Oct. 5; v. 279; p. 5.
Daniels, Edward G. (See Mott, Daniel V., assignor.)
Daniels, Edward T., Townsend, Del., assignor of one-half to L. M. Sherwood, Dubois, Pa. Auxiliary air attachment for automobiles. No. 1,361,519; Dec. 7; v. 281; p. 109.
Daniels, Emil, North Regina, Saskatchewan, Canada. Motor-vehicle. No. 1,359,670; Nov. 23; v. 280; p. 632.
Daniels, Frank A., Pittsburgh, and G. Schuster, Carrick borough, Pa. Rabbeting apparatus. No. 1,346,079; July 6; v. 276; p. 149.
Daniels, Harry H. Winthrop, assignor to The Service Machines Company, Boston, Mass. Stamp-affixing machine. No. 1,346,484; July 13; v. 276; p. 290.
Daniels, Lee E. (See Maechler, Walter, assignor.)
Daniels, Lee G., Rockford, Ill. Lathe-dog. No. 1,331,003; Feb. 17; v. 271; p. 411.
Daniels, Leslie A., Lee, London, England. Metal structure. No. 1,331,247; Feb. 17; v. 271; p. 456.
Daniels, Leslie N., Oak Park, Ill. Hat-protector. No. 1,330,582; Feb. 10; v. 271; p. 262.
Daniels, Oliver D., Henniker, N. H. Gage-glass holder. No. 1,333,839; Mar. 16; v. 272; p. 427.
Danielson, Albin, Chicago, Ill. Casement-adjuster. No. 1,335,429; Mar. 30; v. 272; p. 832.
Danielson, Edward. (See Forsman, V., and Danielson, assignor.)
Danielson, Frank R., Fairfield, Iowa. Footrest for tractors. No. 1,355,895; Oct. 19; v. 279; p. 377.
Danielson, Oscar A., New York, N. Y. Combined air-speed meter and angle of incidence and side slip indicator, with dial therefor. No. 1,332,810; Mar. 2; v. 272; p. 121.
Danielson, Oscar A., New York, N. Y. Combined incidence and side-slip indicator for aeroplanes and the like. No. 1,342,944; June 8; v. 275; p. 314.
Danielsson, Axel, Gottenborg, Sweden. Machine for grinding concaved spherical surfaces. No. 1,352,790; Sept. 14; v. 278; p. 245.
Danielsson, Axel, assignor to Nordiska Kullager Aktiebolaget, Gottenborg, Sweden. Ball-cage for axial-thrust ball-bearings. No. 1,351,160; Aug. 31; v. 277; p. 822.
Danke, Arthur E., Neenah, Wis., assignor to Sterling Manufacturing Company, Sterling, Ill. Hay-loader. No. 1,348,212; Aug. 3; v. 277; p. 16.
Dankmeyer, Charles H., Baltimore, Md. Belting fabric. No. 1,347,254; July 20; v. 276; p. 501.
Danks, Elisha J. B., Birmingham, England. Guard for presses and other machinery. No. 1,358,528; Nov. 9; v. 280; p. 320.

Digitized by Google

Danner, Emil C., Westmont borough, Pa. Track-fastening and making same. No. 1,340,478; May 18; v. 274; p. 476.
Danly, Robert C., Chicago, Ill. Bracket for drummer's traps. No. 1,363,231; Dec. 28; v. 281; p. 583.
Danly, Robert C., assignor to Ludwig & Ludwig, Chicago, Ill. Snare-tensioning device for drums. No. 1,354,028; Sept. 28; v. 278; p. 593.
Danly, Robert C., assignor to Ludwig & Ludwig, Chicago, Ill. Drum and the like. No. 1,356,193; Oct. 19; v. 279; p. 436.
Dann, Ernest G., Chicago, Ill., assignor to The Dann Products Company. Bearing. No. 1,337,203; Apr. 20; v. 273; p. 419.
Dann, Frederick J., Countesthorpe, England, assignor to Wallace J. Bartholomew, London, England. Spade and like digging-tool. No. 1,353,459; Sept. 21; v. 278; p. 485.
Dann Products Company, The. (See Dann, Ernest G., assignor.)
Dannelley, Dillon C., Dallas, Tex. Bottle-filling device. No. 1,336,071; Apr. 6; v. 273; p. 69.
Danner, Emil C., Westmont borough, Pa. Spring-coiling machine. No. 1,344,116; June 22; v. 275; p. 672.
Danner, William, Rochester, N. Y. Mechanical toy. No. 1,361,449; Dec. 7; v. 281; p. 95.
Dansk Staalbeholder Fabrik Akts. (See Flint, Charles F. V., assignor.)
Dansk Varmekedel Syndikat System Lange Fabrikant-Firma. (See Lange, Jens, assignor.)
Dantsizen, Christian, Schenectady, N. Y., assignor to General Electric Company. Electrical cut-out. No. 1,343,039; June 8; v. 275; p. 333.
Dantsizen, Christian, Schenectady, N. Y., assignor to General Electric Company. Porcelain. No. 1,343,040; June 8; v. 275; p. 333.
Danville Brick Company, The. (See Wood, Frank W., assignor.)
Danyluk, Iwan, Welmar, Tex. Collapsible bench. No. 1,343,810; June 15; v. 275; p. 548.
Danziger, Adolphe. (See Rider, Thomas B., assignor.)
Daoust, Joseph D., Montebello, Quebec, Canada. Window-sash lock. No. 1,355,591; Oct. 12; v. 279; p. 277.
Dapprich, Carl E. L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Centrifugally-actuated clutch. No. 1,341,635; June 1; v. 275; p. 4.
D'Aquin, Richard J., New Orleans, La. Pad for umbrella-tips. No. 1,340,476; May 18; v. 274; p. 476.
Darby, Edwin, Waterloo, assignor of one-half to W. M. Darby, Iowa City, Iowa. Oil-burner. No. 1,360,898; Nov. 30; v. 280; p. 942.
Darby, James K., Chillicothe, Ohio. Press-roll arrangement for paper-making machines. No. 1,327,225; Jan. 6; v. 270; p. 65.
Darby, John, Summit, N. J. Powder-puff. No. 1,359,232; Nov. 16; v. 280; p. 501.
Darby, John, Summit, N. J., assignor to F. B. Griffin, New York, N. Y. Motion-picture machine. No. 1,346,880; July 20; v. 276; p. 427.
Darby, John, assignor of one-half to E. F. Flindell, Summit, N. J. Film gate and tension means for motion-picture machines. No. 1,350,548; Aug. 24; v. 277; p. 842.
Darby, John, assignor of one-half to E. F. Flindell, Summit, N. J. Motion-picture-projecting machine. No. 1,359,579; Nov. 23; v. 280; p. 615.
Darby, John, assignor of one-half to E. F. Flindell, Summit, N. J. Sprocket-drum and film for motion-picture-projecting machines. No. 1,361,144; Dec. 7; v. 281; p. 32.
Darby, Martin E. (See Hanssen, R., Haug, and Darby.)
Darby, Norman C., Piermont, N. Y. Motion-picture machine. No. 1,336,775; Apr. 13; v. 273; p. 262.
Darby, Robert F., Yonkers, N. Y. Dust-guard. No. 1,356,046; Oct. 19; v. 279; p. 406.
Darby, William M. (See Darby, Edwin, assignor.)
D'Arcy, Wellington, Jackson, assignor of one-half to S. H. Benbow, Kalamazoo, Mich. Miter-box. No. 1,332,713; Mar. 2; v. 272; p. 103.
D'Arcy, Wellington, Jackson, and S. H. Benbow, Kalamazoo, Mich. Miter-box. No. 1,332,714; Mar. 2; v. 272; p. 103.
Dare, Frank G., Brooklyn, N. Y. Awning and screen. No. 1,361,747; Dec. 7; v. 281; p. 154.
Dargin, Ernest P., Denver, Colo. Spring mechanism for automobiles and other vehicles. No. 1,346,300; July 13; v. 276; p. 254.
Darier, Georges E., Chêne, near Geneva, Switzerland. Gas and liquid contact apparatus. No. 1,327,422; Jan. 6; v. 270; p. 101.
Darier, Georges E., Geneva, Switzerland. Recovery of benzene hydrocarbons from coal gas. No. 1,336,893; Apr. 13; v. 273; p. 286.
Darier, Georges, Chêne, near Geneva, and C. Goudet, assignors to Société d'Etudes Chimiques pour l'Industrie, Geneva, Switzerland. Preventing danger of explosion in the preparation and handling of dangerous explosive substances. No. 1,349,411; Aug. 10; v. 277; p. 302.
Darkes, David J., Fredericksburg, Pa. Snap-hook. No. 1,350,787; Aug. 24; v. 277; p. 689.
Darley, John W., Jr., Baltimore, Md. Button-sewing machine. No. 1,336,346; Apr. 6; v. 273; p. 121.
Darley, John W., Jr., Baltimore, Md. Projectile and means for firing said projectile. No. 1,344,992; June 29; v. 275; p. 907.
Darley, John W., Jr., Baltimore, Md. Fuse for projectiles. No. 1,351,416; Aug. 31; v. 277; p. 874.
Darley, William S., Chicago, Ill. Instrument for locating buried objects. No. 1,351,556; Aug. 31; v. 277; p. 902.
Darley, William S., Chicago, Ill. Pipe-thawing apparatus. No. 1,361,023; Dec. 7; v. 281; p. 8.
Darling, Arthur C., Petrolea, Ontario, Canada. Automobile-signal device. No. 1,363,573; Dec. 28; v. 281; p. 649.
Darling, Elton R., Montclair, N. J., assignor to Ellis-Foster Company. Making bismuth oxid. No. 1,354,806; Oct. 5; v. 279; p. 72.
Darling, Lewis A., assignor to Electric Service Supplies Company, Philadelphia, Pa. Turbine-wheel and bucket-mounting. No. 1,362,853; Dec. 21; v. 281; p. 469.
Darling, Lewis S. (See Pollard, T. J., and Darling.)
Darling, Samuel, Waupun, Wis. Arch-support. No. 1,346,444; July 13; v. 276; p. 282.
Darling Valve and Manufacturing Company. (See Thorne, R. H., and Miller, assignors.)
Darling, William A., Kansas City, Mo. Cutting-blade attachment. No. 1,359,339; Nov. 16; v. 280; p. 523.
Darlington, Philip J., Hartford, Conn. Apparatus for straining or filtering liquids. No. 1,337,756; Apr. 20; v. 273; p. 524.
Darlington, Philip J., assignor to The Roto Company, Hartford, Conn. Milling-machine. No. 1,341,300; May 25; v. 274; p. 704.
Darlington, Philip J., assignor to The Roto Company, Hartford, Conn. Tube-cleaner. No. 1,345,480; July 6; v. 276; p. 30.
Darlington, Philip J., assignor to The Roto Company, Hartford, Conn. Cutter-head for boiler-tube cleaners. No. 1,363,232; Dec. 28; v. 281; p. 583.
Darmis, Cosmas, Philadelphia, Pa. Stringed musical instrument. No. 1,360,729; Nov. 30; v. 280; p. 910.
Darmstadter, Herbert M., Pittsburgh, Pa. Hat reducer and pad. No. 1,330,789; Feb. 17; v. 271; p. 569.
Darmstadter, Herbert M., Pittsburgh, Pa. Hat-creaser. No. 1,335,486; Mar. 30; v. 272; p. 843.
Darnell, George A. (See Za Haris, Michael J., assignor.)
Da Roza, Edward L., San Francisco, Calif. Self-serving store. No. 1,354,957; Oct. 5; v. 279; p. 101.
Darr, Harry O., near Marion, Iowa. Differential-locking mechanism. No. 1,338,720; May 4; v. 274, p. 13.
Darrah, William A., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Arc-lamp. No. 1,344,757; June 29; v. 275; p. 864.
Darras, James W., Chicago, Ill. Chalk-holder. No. 1,332,431; Mar. 2; v. 272; p. 50.
Darrin, David H., Maywood, N. J. Time-switch. No. 1,346,114; July 13; v. 276; p. 217.
Darrin, Marc, Wilkinsburg, assignor to The Koppers Company, Pittsburgh, Pa. Turpentine substitute. No. 1,340,600; May 18; v. 274; p. 500.
Darrow, Burgess, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Apparatus and method for building pneumatic tires. No. 1,335,879; Apr. 6; v. 273; p. 33.
Darrow, Wilton E., Sutter Creek, Calif. Slime-thickener. No. 1,336,553; Apr. 13; v. 273; p. 220.
Darton, Willard B., Portland, Me., assignor to Marlin-Rockwell Corporation, New York, N. Y. Automatic gun. No. 1,335,487; Mar. 30; v. 272; p. 843.
Dary, Jacob A., Portland, Oreg. Amusement-swing. No. 1,330,307; Feb. 10; v. 271; p. 21.
Dasey, Percy J., Chicago, Ill. Apparatus for supplying explosive gas to internal-combustion engines. No. 1,344,793; June 29; v. 275; p. 871.
Date, William E., Westfield, N. J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Controller for motor-driven machines. No. 1,357,384; Nov. 2; v. 280; p. 35.
Dath, Charles E., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Side bearing. No. 1,342,101; June 1; v. 275; p. 96.
Dathan, Charles F., Chicago, Ill. Torpedo-net for ships. No. 1,347,363; July 20; v. 276; p. 523.
Datka, Emryk, Duluth, Minn. Twyer peek-holes. No. 1,360,191; Nov. 23; v. 280; p. 736.
Datta, Rasik L., Calcutta, India. Manufacture of caffein. No. 1,350,092; Aug. 17; v. 277; p. 507.
Daubenspeck, Henry C. (See Winder, S. E., and Daubenspeck.)
Daubenspeck, Peter E., Butler, Pa. Tire-chain. No. 1,341,301; May 25; v. 274; p. 704.
Daudelin, Eusebe H., assignor of one-half to himself and one-half to J. B. Daudelin, Fall River, Mass. Shuttle. No. 1,363,233; Dec. 28; v. 281; p. 584.
Daudelin, Jean B. (See Daudelin, Eusebe H., assignor.)
Daudelin, Jean B., Fall River, Mass. Shuttle. No. 1,356,047; Oct. 19; v. 279; p. 406.
Daudignac, Jean. (See Boillot, M. L., and Daudignac.)
Daugherty, Alvin A., New York, N. Y. Apparatus for producing gasolene and other products from hydrocarbons. No. 1,353,638; Sept. 21; v. 278; p. 472.

Digitized by Google

Alphabetical list of patentees—Continued.

Daugherty, Harry L., Carson City, Nev. Rosette for bridles and other parts of harness. No. 1,345,076; June 29; v. 275; p. 923.
Daugherty, James D., Kittanning, Pa. Combined clipper and vibrator. No. 1,357,031; Oct. 26; v. 279; p. 647.
Daugherty, Jesse C. (See Barger, Bernard J., assignor.)
Daugherty, John Q., assignor of one-fourth to K. M. Rowe, Broken Arrow, Okla. Nut-lock. No. 1,346,301; July 13; v. 276; p. 254.
Daum, Albert F., Pittsburgh, Pa. Fuse-plug. No. 1,351,204; Aug. 31; v. 277; p. 832.
Daum, George W. (See Lewis, S. G., and Daum.)
Daum, William T., Oak Park, Ill. Automobile-trailer. No. 1,343,197; June 15; v. 275; p. 428.
Daus, Joseph L. (See Hanson, J. C., and Daus.)
Dauster, John, Wilkinsburg, Pa. Fan. No. 1,339,169; May 4; v. 274; p. 96.
Dauteuil, Fernand. (See Krèe, P. M., and Dauteuil.)
Davenport, Alpha L., and A. J. James, Vancouver, British Columbia, Canada. Latch. No. 1,356,604; Oct. 26; v. 279; p. 563.
Davenport, Arthur A., Lockport, N. Y. Drop-box loom. No. 1,343,663; June 15; v. 275; p. 519.
Davenport, Eugene F., Melrose, Mass., assignor to United Shoe Machiney Corporation, Paterson, N. J. Skiving-machine. No. 1,329,294; Jan. 27; v. 270; p. 580.
Davenport, Floy E., Callaway, Nebr. Animal gun-trap. No. 1,347,255; July 20; v. 276; p. 501.
Davenport, John R., Hoxie, Ark. Timber-cutting machine. No. 1,338,977; May 4; v. 274; p. 60.
Davenport Manufacturing Company. (See Hemsing, Maurice A., assignor.)
Davey, James H. (See Gourley, Joseph H., assignor.)
Davey, Leigh H., Jersey City, N. J. Heads for barrels and other similar receptacles. No. 1,340,023; May 11; v. 274; p. 333.
David, Howard M., *et al.* (See Hoeflich, Llewellyn A., assignor.)
Davidson, James G., Vancouver, British Columbia, Canada, assignor to International Precipitation Company, Los Angeles, Calif. Apparatus for electrical treatment of gases. No. 1,334,231; Mar. 16; v. 272; p. 500.
David, James O., *et al.* (See Bair, Joseph H., assignor.)
David, John C., Springfield, Mo. Connecting means for railway-rails. No. 1,344,336; June 22; v. 275; p. 715.
Davidenia, Terentie, Detroit, Mich. Ship-salvage device. No. 1,351,100; Aug. 31; v. 277; p. 811.
Davids, William C., Rutherford, N. J. Engine-valve. No. 1,363,398; Dec. 28; v. 281; p. 614.
Davidson, Albert H., Huntington, W. Va. Child's vehicle. No. 1,359,674; Nov. 23; v. 280; p. 633.
Davidson, Arthur C., assignor to Waugh Draft Gear Company, Chicago, Ill. Antifriction draw-bar. No. 1,342,586; June 8; v. 275; p. 244.
Davidson, Charles S., assignor of one-third to F. M. Pool and one-third to J. E. Faber, Los Angeles, Calif. Dry-chemical fire-extinguisher. No. 1,354,093; Sept. 28; v. 278; p. 608.
Davidson, Clinton J., Berkeley, Calif. Slide-rule. No. 1,343,549; June 15; v. 275; p. 496.
Davidson, Donald, assignor to Bradley & Vrooman Company, Chicago, Ill. Stabilizing polysulfids and the products of such methods. No. 1,338,678; May 4; v. 274; p. 60.
Davidson, Frank B., Marseilles, Ill., assignor to National Biscuit Company, New York, N. Y. Preparing pulp having wax-impregnated fibers. No. 1,344,620; June 29; v. 275; p. 837.
Davidson, Frank B., Marseilles, Ill., assignor to National Biscuit Company, New York, N. Y. Paper or paper board and making same. No. 1,347,619; July 27; v. 276; p. 630.
Davidson, Frank B., Marseilles, Ill., assignor to National Biscuit Company, New York, N. Y. Paper-board. No. 1,353,328; Sept. 21; v. 278; p. 409.
Davidson, Frederick L., Halifax, Nova Scotia, Canada. Dish-washing machine. No. 1,360,192; Nov. 23; v. 280; p. 736.
Davidson, George, Britannia Beach, British Columbia, Canada. Device for pulling rock-drills when stuck. No. 1,339,024; May 4; v. 274; p. 69.
Davidson, George R., Lenox, Mich. Steering-wheel lock. No. 1,348,547; Aug. 3; v. 277; p. 81.
Davidson, Harry O., assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Concrete-form. No. 1,349,819; Aug. 17; v. 277; p. 454.
Davidson, Harry O., assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Sheet-metal fabric. No. 1,359,675; Nov. 23; v. 280; p. 634.
Davidson, Horatio F., and W. F. Wheeler, Hood River, Oreg. Fruit-grading machine. No. 1,358,061; Nov. 9; v. 280; p. 226.
Davidson, Ira M., assignor to Sunshine Patent Company, Kansas City, Mo. Internal-combustion engine. No. 1,357,152; Oct. 26; v. 279; p. 670.
Davidson, James A., Loveland, Colo. Blower-pipe-raising device. No. 1,359,876; Nov. 23; v. 280; p. 674.
Davidson, John, Jr., Montclair, N. J., assignor to American Telephone and Telegraph Company. Signaling-circuit for toll lines. No. 1361,024; Dec. 7; v. 281; p. 9.
Davidson, Joseph, East Point, Ga. Fluid-pressure valve. No. 1,350,438; Aug. 24; v. 277; p. 621.
Davidson, Joseph, Greenville, S. C., assignor of one-half to American Machine & Manufacturing Company. Lint-collecting system. No. 1,350,439; Aug. 24; v. 277; p. 621.
Davidson, Samuel C., Belfast, Ireland. Centrifugal fan and pump. No. 1,363,959; Dec. 28; v. 281; p. 724.
Davidson, Scott, and A. L. Schram, Hillsboro, Ill., assignors to Schram Glass Manufacturing Company, St. Louis, Mo. Apparatus for delivering mold-charges from glass-furnaces. No. 1,338,214; Apr. 27; v. 273; p. 680.
Davidson, Victor J., Tintah, Minn. Posthole-digging machine. No. 1,360,193; Nov. 23; v. 280; p. 736.
Davidson, William T., *et al.* (See Buckley, John J., assignor.)
Davies, Arthur S., Santa Cruz, Calif. Machine for cooking and draining material in cans. No. 1,355,091; Oct. 5; v. 279; p. 128.
Davies, Daniel J., Pasadena, Calif. Waterproofing composition. No. 1,329,162; Jan. 27; v. 270; p. 556.
Davies, David P., Pittsburgh, Pa. Traction device for automobile-wheels. No. 1,354,537; Oct. 5; v. 279; p. 18.
Davies, Evan W., Dowlais, Wales. Apparatus for manipulation of metal ingots and the like. No. 1,327,315; Jan. 6; v. 270; p. 81.
Davies, Henry R., assignor to Industrial Research Corporation, Toledo, Ohio. Driving mechanism. No. 1,330,848; Feb. 17; v. 271; p. 380.
Davies, Henry R., assignor to Industrial Research Corporation, Toledo, Ohio. Automatic regulator. No. 1,346,181; July 13; v. 276; p. 230.
Davies, Henry R., assignor to Electric Auto-Lite Corporation, Toledo, Ohio. Headlight. No. 1,362,085; Dec. 14; v. 281; p. 268.
Davies, John, W. H. Jones, J. Davies, and H. J. Hale, Liverpool, England. Covering or insulation for ships' decks, bulkheads, walls, floors, ceilings, and the like. No. 1,336,683; Apr. 13; v. 273; p. 245.
Davies, Joseph. (See Davies, J., Jones, and Hale.)
Davies, Laurence, New Malden, England. Water-waste preventer. No. 1,339,690; May 11; v. 274; p. 271.
Davies, Llewellyn, Sisson, Calif. Wire-binding tool. No. 1,328,423; Jan. 20; v. 270; p. 387.
Davies, Llewellyn J., Twin Lakes, Colo. Multiple-wheel drive for tractors. No. 1,350,071; Aug. 17; v. 277; p. 503.
Davies, Nelson E., Redwood City, Calif. Fluid-checking device. No. 1,347,017; July 20; v. 276; p. 454.
Davies, Samuel, Eltham, England. Hand soldering-tool. No. 1,341,497; May 25; v. 274; p. 743.
Davies, Thomas L. (See Bowen, Ernest W., assignor.)
Davies, Thomas L. (See Windsor-Bowen, Ernest, assignor.)
Davies, William R., *et al.*, executors. (See Thomas, H. S., Davies, and Thomas.)
Davino, Alphonso, Los Angeles, Calif. Cable-controlled carrying apparatus. No. 1,360,097; Nov. 23; v. 280; p. 718.
Davis, A. B. (See Fisk, Alfred A., assignor.)
Davis, A. F., *et al.* (See Pedersen, Peder, assignor.)
Davis, Aaron, Nahant, and C. M. Clark, Boston, Mass.; said Davis assignor to said Clark. Wheel-rim. No. 1,363,498; Dec. 28; v. 281; p. 634.
Davis, Alfred J., Minneapolis, Minn. Liquid-tempering device. No. 1,332,811; Mar. 2; v. 272; p. 122.
Davis, Alpha Y., Chicago, Ill. Car-wheel assembly. No. 1,357,226; Nov. 2; v. 280; p. 5.
Davis, Archibald, Schenectady, N. Y. Faulty-cable localizer. No. 1,331,051; Feb. 17; v. 271; p. 420.
Davis, Arnold. (See Bresnahan, J., and Davis.)
Davis, Arthur, Kidderminster, assignor to Thomas Bond North & Sons Limited, Stourport, England. Loom for weaving tufted fabrics such as carpets and the like. No. 1,341,417; May 25; v. 274; p. 727.
Davis, Augustine, assignor to Davis-Bournonville Company, New York, N. Y. Variable-pressure acetylene-generator. No. 1,328,227; Jan. 13; v. 270; p. 814.
Davis, Augustine, Jr., Covington, Ky. Manhole. No. 1,329,040; Jan. 27; v. 270; p. 533.
Davis, Augustine, Jr., Covington, Ky. Bucket-hook for tank-vehicles. No. 1,330,628; Feb. 10; v. 271; p. 270.
Davis, Augustine, Jr., Covington, Ky. Tank-vehicle. No. 1,332,614; Mar. 2; v. 272; p. 84.
Davis, Augustine, Jr., Covington, Ky., and A. L. Betts, Cincinnati, Ohio; said Betts assignor to said Davis. Mounting for vehicle-tanks. No. 1,329,039; Jan. 27; v. 270; p. 533.
Davis, Benjamin W., Chicago, Ill. Signal system for controlling street traffic. No. 1,328,269; Jan. 20; v. 270; p. 358.
Davis, Benjamin W., Chicago, Ill. Portable signal system. No. 1,346,531; July 13; v. 276; p. 299.
Davis-Bournonville Company. (See Buckley, William J., assignor.)
Davis-Bournonville Company. (See Buckman, Worthy C., assignor.)
Davis-Bournonville Company. (See Cave, H., and Anderson, assignors.)
Davis-Bournonville Company. (See Davis, Augustine, assignor.)
Davis-Bournonville Company. (See Plumley, Stuart, assignor.)

Digitized by Google

Davis, Budd V., Rockford, Ill. Hand-oiler. No. 1,331,004; Feb. 17; v. 271; p. 412.
Davis, Calvin R., assignor to Emerson & Brantingham Company, Rockford, Ill. Fertilizer-distributer. No. 1,327,654; Jan. 13; v. 270; p. 206.
Davis, Calvin R., assignor to Emerson-Brantingham Company, Rockford, Ill. Hay-loader. No. 1,338,215; Apr. 27; v. 273; p. 680.
Davis, Calvin R., assignor to Emerson-Brantingham Company, Rockford, Ill. Front wheel and draft structure for hay-loaders. No. 1,361,369; Dec. 7; v. 281; p. 78.
Davis, Cecil E., Montezuma, Kans. Machine for truing connecting-rod bearings. No. 1,331,052; Feb. 17; v. 271; p. 420.
Davis, Charles A., Los Angeles, Calif. Scarecrow. No. 1,357,032; Oct. 26; v. 279; p. 647.
Davis, Charles B., *et al.* (See Tisdell, Frank J., assignor.)
Davis, Charles B., New York, N. Y. Washing. No. 1,328,079; Jan. 13; v. 270; p. 286.
Davis, Charles E., Battle Creek, Mich. Clothesline-prop. No. 1,349,325; Aug. 10; v. 277; p. 285.
Davis, Charles E., assignor to Goodman Manufacturing Company, Chicago, Ill. Mining-machine. No. 1,344,201; June 22; v. 275; p. 689.
Davis, Charles E., assignor to Goodman Manufacturing Company, Chicago, Ill. Mining-machine. No. 1,350,706; Aug. 24; v. 277; p. 673.
Davis, Charles T. (See McKenna, William F., assignor.)
Davis, Charles T., Brooklyn, N. Y., assignor to H. R. Davis. Poison-tablet. No. 1,335,488; Mar. 30; v. 272; p. 843.
Davis, Charles T., New York, N. Y. Poison-tablet. No. 1,349,326; Aug. 10; v. 277; p. 285.
Davis, Charles T., New York, N. Y. Fluid applicator and package. No. 1,363,960; Dec. 28; v. 281; p. 724.
Davis, Charles W., assignor, by mesne assignments, to The Torrington Company, Torrington, Conn. Vacuum carpet-sweeper. No. 1,332,432; Mar. 2; v. 272; p. 50.
Davis, Christine, Minneapolis, Minn. Thread-holder. No. 1,336,554; Apr. 13; v. 273; p. 220.
Davis, Christopher, *et al.* (See Cooke, William J., assignor.)
Davis, Claude, Washington, D. C. Automobile-headlight. No. 1,360,899; Nov. 30; v. 280; p. 943.
Davis, Claude B., Richmond, assignor of one-half to J. W. Keeling, Danville, Va. Wringer attachment for tubs. No. 1,327,526; Jan. 6; v. 270; p. 121.
Davis, Claude B., Richmond, assignor of one-half to J. W. Keeling, Danville, Va. Wringer attachment for tubs. No. 1,327,527; Jan. 6; v. 270; p. 121.
Davis, Claude B., assignor of one-half to M. Allen, and one-fourth to W. T. Bragg, Richmond, Va. Toll-collecting mechanism. No. 1,350,958. Aug. 24; v. 277; p. 721.
Davis, Claude H., Wanganui, New Zealand. Vacuum milking-machine. No. 1,353,639; Sept. 21; v. 278; p. 472.
Davis, Cortland W., and F. R. Sunderlin, assignors to The Mantle Lamp Company of America, Chicago, Ill. Spring-actuated supporting device. No. 1,332,383; Mar. 2; v. 272; p. 41.
Davis, Cortland W., and F. R. Sunderlin, Chicago, Ill., assignors to The Mantle Lamp Co. of America. Insulated vitreous receptacle. No. 1,333,795; Mar. 16; v. 272; p. 416.
Davis, Cortland W., and F. R. Sunderlin, Chicago, Ill., assignors to The Mantle Lamp Co. of America. Insulated vitreous receptacle. No. 1,333,840; Mar. 16; v. 272; p. 427.
Davis, Daniel B., Marion, Ind. Spring device. No. 1,349,327; Aug. 10; v. 277; p. 285.
Davis, David C., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Exciting system for commutating-poles in dynamo-electric machinery. No. 1,357,227; Nov. 2; v. 280; p. 6.
Davis, David C., Wilkinsburg, and C. L. Fortescue, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Co. Relay. No. 1,351,027; Aug. 31; v. 277; p. 797.
Davis, David G. (See Patten, R. W., Davis, and Burleigh.)
Davis, David J., Haverfordwest, Wales. Permutation-lock. No. 1,329,041; Jan. 27; v. 270; p. 533.
Davis, Dean W., Fort Wayne, Ind. Storage battery. No. 1,359,491; Nov. 23; v. 280; p. 597.
Davis, Donald C., Depew, assignor to Gould Coupler Co., New York, N. Y. Buffer for railway rolling-stock. No. 1,339,743; May 11; v. 274; p. 280.
Davis, Donald C., Buffalo, assignor to Gould Coupler Company, New York, N. Y. Lid closing and holding device for journal-boxes. No. 1,360,194; Nov. 23; v. 280; p. 737.
Davis, Donald C., Buffalo, N. Y., assignor to Gould Coupler Company, New York, N. Y. Friction draft and buffing gear and the like. No. 1,363,179; Dec. 21; v. 281; p. 532.
Davis, Earl J., Appleton, Wis. Railway-rail-securing device. No. 1,329,163; Jan. 27; v. 270; p. 556.
Davis, Earl J., Appleton, Wis. Rail-fastener. No. 1,358,529; Nov. 9; v. 280; p. 320.
Davis, Edward W. (See Swart, W. G. Jordan, Davis, and Counselman.)
Davis, Edward W., Duluth, Minn. Apparatus for agglomerating ores. No. 1,350,440; Aug. 24; v. 277; p. 622.
Davis, Edwin P., Bridgeport, Conn. Thread-cutting tool. No. 1,332,289; Mar. 2; v. 272; p. 22.
Davis, Elmer A., assignor to Whiting Foundry Equipment Company, Harvey, Ill. Expansion-joint for electric-current-collector bars. No. 1,350,856; Aug. 24; v. 277; p. 701.
Davis, Elmer C., Fairfield, Iowa. Breast-collar harness. No. 1,331,488; Feb. 24; v. 271; p. 521.
Davis, F. M. (See Dillon, Robert L., assignor.)
Davis, Frank, Atlanta, Ga. Ruling-machine. No. 1,333,471; Mar. 9; v. 272; p. 297.
Davis, Frank B., Erie, Pa. Dental instrument. No. 1,328,131; Jan. 13; v. 270; p. 296.
Davis, Frank E., Bremerton, Wash. Shade for auto headlamps. No. 1,350,212; Aug. 17; v. 277; p. 530.
Davis, Frank F., Chester, Pa. Oxyacetylene, carbohydrogen, or the like torch. No. 1,359,155; Nov. 16; v. 280; p. 486.
Davis, Frank E., and D. A. Biebinger, assignors to La Crosse Plow Company, La Crosse, Wis. Plow. No. 1,338,559; Apr. 27; v. 273; p. 744.
Davis, Frank E., and W. W. Cameron, assignors to La Crosse Plow Co., La Crosse, Wis. Tractor-plow. No. 1,347,992; July 27; v. 276; p. 704.
Davis, Frank H., assignor of one-half to F. R. Coughlin, New York, N. Y. Apparatus for and method of manufacturing mounted gold-leaf. No. 1,334,947; Mar. 30; v. 272; p. 742.
Davis, Frank S. (See Gow, J. M., and Davis.)
Davis, Fred W., Council Bluffs, Iowa. Dating-stamp attachment. No. 1,361,145; Dec. 7; v. 281; p. 32.
Davis, Frederick W., Dayton, Ohio. Self-serving store. No. 1,345,481; July 6; v. 276; p. 30.
Davis, Frederick W., Dayton, Ohio. Water-station. No. 1,345,482; July 6; v. 276; p. 30.
Davis, George B., Calgary, Alberta, Canada. Safety anti-tilting device for elevators. No. 1,343,118; June 8; v. 275; p. 849.
Davis, George F., Ozona, Tex. Wood-rod elevator. No. 1,347,535; July 27; v. 276; p. 613.
Davis, George H., West Orange, N. J. Perforated music-sheet for automatic musical instruments. No. 1,353,460; Sept. 21; v. 278; p. 436.
Davis, George H., West Orange, N. J. Stairway-elevator. No. 1,358,062; Nov. 9; v. 280; p. 226.
Davis, George H. Portland, Me., and W. G. Griffin, Washington, D. C., assignors of one half to said Davis and one-half to E. T. Burrowes, Portland, Me. Auxiliary tractor for motor-vehicles. No. 1,340,024; May 11; v. 274; p. 333.
Davis, George H. E., Lynn, Mass. Shelf-facing. No. 1,344,223; June 22; v. 275; p. 693.
Davis, George P., McIntosh, N. Mex. Pump-pipe lifter. No. 1,328,648; Jan. 20; v. 270; p. 430.
Davis, George P., Fresno, Calif. Typesetting-machine. No. 1,350,707; Aug. 24; v. 277; p. 673.
Davis, Glenn L., Burrton, Kans. Aeroplane-brake. No. 1,343,769; June 15; v. 275; p. 540.
Davis, H. D., Manufacturing Company, The. (See Davis, Harry G., assignor.)
Davis, H. E., and H. A. Hartman, Milton, Pa. Shutter for motion-picture machines. No. 1,356,348; Oct. 19; v. 279; p. 466.
Davis, H. G., Manufacturing Company. (See Henry, George W., Jr., assignor.)
Davis, H. H., *et al.* (See Abbey, Eddie G., assignor.)
Davis, Hanley M., Cambridge, Mass. Fire-escape. No. 1,350,708; Aug. 24; v. 277; p. 674.
Davis, Harrison H., The Plains, Ohio. Safety-crank. No. 1,345,142; June 29; v. 275; p. 936.
Davis, Harry. (See Talbert, G. M., and Davis.)
Davis, Harry A., assignor to Draper Corporation, Hopedale, Mass. Filling-replenishing loom. No. 1,350,093; Aug. 17; v. 277; p. 507.
Davis, Harry A., assignor to Draper Corporation, Hopedale, Mass. Cam for looms. No. 1,350,094; Aug. 17; v. 277; p. 507.
Davis, Harry A., assignor to Draper Corporation, Hopedale, Mass. Beam-lock for looms. No. 1,359,580; Nov. 23; v. 280; p. 615.
Davis, Harry E., and H. A. Hartman, Milton, Pa. Shutter for motion-picture machines. No. 1,330,519; Feb. 10; v. 271; p. 251.
Davis, Harry G., assignor to The H. D. Davis Manufacturing Company, Philadelphia, Pa. Printing and inking device. No. 1,340,380; May 18; v. 274; p. 458.
Davis, Harry O., Ipswich, assignor to Spray Engineering Company, Boston, Mass. Means for applying coating. No. 1,332,544; Mar. 2; v. 272; p. 71.
Davis, Harry S., Indianapolis, Ind. Weather-strip. No. 1,352,879; Sept. 14; v. 278; p. 263.
Davis, Harry W., Edgewood Park, Pa. Section-switch. No. 1,327,463; Jan. 6; v. 270; p. 108.
Davis, Henrietta R. (See Davis, Charles T., assignor.)
Davis, Henry F., Walter, Okla. Flytrap for screen doors and windows. No. 1,357,619; Nov. 2; v. 280; p. 79.
Davis, Henry J., Waynesboro, Ga. Agricultural machine. No. 1,352,725; Sept. 14; v. 278; p. 282.
Davis, Henry P., New York, N. Y. Window-frame. No. 1,339,170; May 4; v. 274; p. 96.

Digitized by Google

Davis, Howard C. (See Row and Davis.)
Davis, Irving L., Dayton, Ohio. Arrow. No. 1,346,639; July 13; v. 276; p. 321.
Davis, Isaac. (See Davis, R. L., and Kaplan, assignors.)
Davis, J. G. (See Wylie, Arthur E., assignor.)
Davis, J. M. (See Slagle, G. R., Garner, and Rushin, assignors.)
Davis, Jacob, Cleveland, Ohio. Hanger or coupling. No. 1,350,008; Aug. 17; v. 277; p. 490.
Davis, James C., assignor to American Steel Foundries, Chicago, Ill. Core-drying means. No. 1,335,222; Mar. 30; v. 272; p. 794.
Davis, James F., assignor of one-half to S. S. Howard, Atwater, Calif. Machine for raising and cutting potato-vines and the like. No. 1,347,733; July 27; v. 276; p. 653.
Davis, James G., Buffalo, N. Y. Floor and ceiling construction. No. 1,330,370; Feb. 10; v. 271; p. 223.
Davis, James G., Buffalo, N. Y. Floor and ceiling construction. No. 1,347,146; July 20; v. 276; p. 479.
Davis, Jasper W. (See McMaster, Henry, assignor.)
Davis, Joe M., *et al.* (See Whitcomb, James, assignor.)
Davis, John, Detroit, Mich. Spring-tire. No. 1,335,046; Mar. 30; v. 272; p. 761.
Davis, John A., U. S. Navy. Turn-table for talking-machines. (Reissue.) No. 14,823; Mar. 23; v. 272; p. 683.
Davis, John A., U. S. Navy, assignor of one-half to F. S. Lincoln, Washington, D. C. Talking-machine. No. 1,334,690; Mar. 23; v. 272; p. 633.
Davis, John A., assignor of one-half to F. S. Lincoln, Washington, D. C. Talking-machine. No. 1,360,900; Nov. 30; v. 280; p. 943.
Davis, John B., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Liquid-dispensing apparatus. No. 1,341,263; May 25; v. 274; p. 697.
Davis, John B., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Liquid-dispensing apparatus. No. 1,345,837; July 6; v. 276; p. 100.
Davis, John B., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Piston. No. 1,347,082; July 20; v. 276; p. 467.
Davis, John E. (See Bauer, L. W., and Davis.)
Davis, John F. (See Wright, J. M., and Davis.)
Davis, John H., Stockton, Calif. Gang-plow construction. No. 1,358,939; Nov. 16; v. 280; p. 446.
Davis, John J., Youngstown, Ohio. Micrometer. No. 1,341,546; May 25; v. 274; p. 752.
Davis, John V., Kelseyville, Calif., assignor, by mesne assignments, to Boston Scale and Machine Co., Boston, Mass. Automatic weighing and recording scale. No. 1,352,880; Sept. 14; v. 278; p. 263.
Davis, John W., Honolulu, Hawaii. Case for holding cigarette-papers. No. 1,341,974; June 1; v. 275; p. 11.
Davis, Joseph K., assignor to Scovill Manufacturing Company, Waterbury, Conn. Air-distributer for lamp-burners. No. 1,337,825; Apr. 20; v. 273; p. 536.
Davis, Lawrence M., Galva, Iowa. Disk harrow. No. 1,362,854; Dec. 21; v. 281; p. 470.
Davis, Laurence R., Providence, R. I., assignor to Revere Rubber Company. Coating apparatus. No. 1,347,256; July 20; v. 276; p. 501.
Davis, Leroy W., and C. C. Stewart, Dodge City, Kans. Wrench. No. 1,332,168; Feb. 24; v. 271; p. 648.
Davis, Lewis K., Pelham N. Y. Building construction. No. 1,362,399; Dec. 14; v. 281; p. 329.
Davis, Lewis W., Seattle, Wash. Universal joint. No. 1,334,439; Mar. 23; v. 272; p. 586.
Davis, Lila S., Madison, Fla. Button-snap. No. 1,348,699; Aug. 3; v. 277; p. 110.
Davis Machine Tool Company. (See Farmer, Leslie D., assignor.)
Davis, Madison T., Jr., assignor to Kanawha Manufacturing Company, Charleston, W. Va. Furnace-grate. No. 1,350,990; Aug. 24; v. 277; p. 727.
Davis, Marion A., Sherman, Tex. Automobile-windlass. No. 1,337,757; Apr. 20; v. 278; p. 524.
Davis, Marion L., Sherman, Tex. Wire-fence shield. No. 1,336,205; Apr. 6; v. 273; p. 95.
Davis, Maxwell W., West Haven, Conn. Testing device. No. 1,336,424; Apr. 13; v. 273; p. 196.
Davis, Minor M., New York, N. Y. Protecting device for electrical instruments. No. 1,352,117; Sept. 7; v. 278; p. 78.
Davis, Morris A. (See Metzger, Harry C., assignor.)
Davis, Noah W., assignor of one-half to E. M. Markel, Des Moines, Iowa. Burial-vault. No. 1,339,920; May 11; v. 274; p. 314.
Davis, Orin C., Manistee, Mich. Shop-pan truck. No. 1,363,499; Dec. 28; v. 281; p. 634.
Davis, Robert H. (See Parrott, A. H., and Round, assignors.)
Davis, Robert L., and H. Kaplan; said Kaplan assignor to I. Davis, New York, N. Y. Heel. No. 1,335,664; Mar. 30; v. 272; p. 877.
Davis, Robert S., Powhatan, La. Adjustable standard and heel-knife. No. 1,347,257; July 20; v. 276; p. 502.
Davis, Robert W., Hiltonia, N. J. Right-angle power transmission. No. 1,351,470; Aug. 31; v. 277; p. 885.
Davis, Rufus T., assignor to Steel & Wire Company, Philadelphia, Pa. Hanger. No. 1,356,269; Oct. 19; v. 279; p. 451.
Davis Sewing Machine Company, The. (See Wishon, Ralph, assignor.)
Davis, Theadore B., Pennville, Ind. Tractor. No. 1,335,489; Mar. 30; v. 272; p. 843.
Davis, Theron, New York, N. Y. Oven. No. 1,330,849; Feb. 17; v. 271; p. 380.
Davis, Theron, New York, N. Y. Incandescent electric lamp. No. 1,348,350; Aug. 3; v. 277; p. 43.
Davis, Thomas, Mounds, Okla. Shock-absorber. No. 1,337,345; Apr. 20; v. 273; p. 446.
Davis, Thomas, Mounds, Okla. Shock-absorber. No. 1,337,346; Apr. 20; v. 273; p. 446.
Davis, Thomas, Detroit, Mich., assignor to The John Ford Starter Company, Baltimore, Md. Controller for air-pressure systems of automobile-starters and the like. No. 1,356,811; Oct. 26; v. 279; p. 604.
Davis, Thomas A., San Antonio, Tex. Antifreezing appliance for water-pipes. No. 1,328,649; Jan. 20; v. 270; p. 430.
Davis, Verner F., Orange, N. J. Temperature-regulator. No. 1,336,072; Apr. 6; v. 273; p. 69.
Davis, Verner F., Orange, N. J., assignor to P. D. Peters, Little Falls, N. Y. Heater for incubators. No. 1,348,784; Aug. 3; v. 277; p. 126.
Davis, Virginia, New York, N. Y. Key-ring. No. 1,333,655; Mar. 16; v. 272; p. 393.
Davis, Virginia, New York, N. Y. Key-ring. No. 1,343,495; June 15; v. 275; p. 485.
Davis, Virginia, New York, N. Y. Clothespin. No. 1,343,496; June 15; v. 275; p. 485.
Davis, W. C., *et al.* (See Maguire, Forrest R., assignor.)
Davis, Walter G., Miami, Fla. Soap-hanger. No. 1,342,844; June 8; v. 275; p. 294.
Davis, Walter N., Richmond, N. Y. Rudder. No. 1,363,961; Dec. 28; v. 281; p. 724.
Davis, Wilbur M. (See Rockwell, F. C., and Davis.)
Davis, William C., Melbourne, Victoria, Australia. Reinforced concrete construction. No. 1,348,483; Aug. 3; v. 277; p. 69.
Davis, William E., Morristown, N. J. Portable fence. No. 1,341,264; May 25; v. 274; p. 697.
Davis, William J., Bush Hill Park, England. Stamp-affixing machine. No. 1,338,978; May 4; v. 274; p. 60.
Davis, William J., assignor of one-third to L. G. Hirth, Fernandina, Fla. Method and means for catching fish. No. 1,361,691; Dec. 7; v. 281; p. 143.
Davis, William L., Petersburg, Va. Front-axle brace. No. 1,333,902; Mar. 16; v. 272; p. 439.
Davis, William Y. E., Berkley, Va. Pea-harvester. No. 1,359,794; Nov. 23; v. 280; p. 658.
Davison, Charles W., assignor to William T. Stead Memorial Center, Chicago, Ill. Automatograph. No. 1,340,529; May 18; v. 274; p. 486.
Davison, Frank G., Boston, Mass. Book or paper binder. No. 1,334,020; Mar. 16; v. 272; p. 462.
Davison, James, Lapeer, Mich. Gravel-screen. No. 1,363,762; Dec. 28; v. 281; p. 685.
Davison, Harry, and W. R. Townsend, Shelbyville, Ind.; said Townsend assignor to said Davison. Heating and liquefying apparatus. No. 1,341,046; May 25; v. 274; p. 655.
Davison, Neville C., Edgeworth, Pa. Fuel-burner. No. 1,338,679; May 4; v. 274; p. 6.
Davy Brothers. (See Hand, Thomas W., assignor.)
Davy, Robert B., Hayward, Calif. Vacuum-railway. No. 1,336,732; Apr. 13; v. 273; p. 255.
Dawkins, Harriet B., assignor of one-half to J. E. Dawkins, Charlotte, N. C. Collapsible foot-measuring device. No. 1,356,489; Oct. 19; v. 279; p. 493.
Dawkins, James E. (See Dawkins, Harriet B., assignor.)
Dawkins, Stephen F., Fayette, Miss. Seed-pan. No. 1,329,266; Jan. 27; v. 270; p. 575.
Dawley, Fred B., Detroit, Minn. Attachment for steam-heating plants. No. 1,344,292; June 22; v. 275; p. 707.
Dawley, Herbert M., Chatham, N. J. Articulated effigy. No. 1,347,903; July 27; v. 276; p. 704.
Dawley, James C. (See Ripsch, C. W., and Dawley.)
Dawley, James C. (See Ripsch, C. W., Dawley, and Derby.)
Dawson, A. T., and G. T. Buckham, Westminster, London, assignors to Vickers Limited, Westminster, England Ordnance. No. 1,355,388; Oct. 12; v. 279; p. 28.
Dawson, A. T. and G. T. Buckham, assignors to Vickers Limited, Westminster, England. Firing mechanism of ordnance. No. 1,360,731; Nov. 30; v. 280; p. 910.
Dawson, Alva K., Jacksonville, Fla. Combined head-covering and hair-comb. No. 1,327,528; Jan. 6; v. 270; p. 121.
Dawson, Arthur T., and G. T. Buckham, Westminster, London, assignors to Vickers Limited, Westminster, England. Gun-mounting. No. 1,327,084; Jan. 6; v. 270; p. 39.
Dawson, Arthur T., and G. T. Buckham, London, assignors to Vickers Limited, Westminster, England. Gun-mounting. No. 1,327,085; Jan. 6; v. 270; p. 39.
Dawson, Arthur T., and G. T. Buckham, London, assignors to Vickers Limited, Westminster, England. Machine-gun. No. 1,327,086; Jan. 6; v. 270; p. 39.

Digitized by Google

Dawson, Arthur T., and G. T. Buckham, London, assignors to Vickers Limited, Westminster, England. Breech-loading ordnance. No. 1,327,087; Jan. 6; v. 270; p. 39.

Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Ordnance-sighting apparatus. No. 1,328,914; Jan. 27; v. 270; p. 509.

Dawson, Arthur T., and G. T. Buckham, Westminster, London, England, assignors to United States Ordnance Company, Washington, D. C. Breech mechanism of ordnance. No. 1,337,004; Apr. 13; v. 273; p. 306.

Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Lock mechanism of ordnance. No. 1,337,308; Apr. 20; v. 273; p. 439.

Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Ordnance breech mechanism. No. 1,340,215; May 18; v. 274; p. 427.

Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Recoil and run-out gear for ordnance. No. 1,342,708; June 8; v. 275; p. 266.

Dawson, Arthur T., and G. T. Buckham, Westminster, London, England, assignors to Vickers Limited, London, England. Ordnance recoil and run-out apparatus. No. 1,342,709; June 8; v. 275; p. 267.

Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Ordnance recoil and run-out apparatus. No. 1,344,621; June 29; v. 275; p. 837.

Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Ordnance breech mechanism. No. 1,345,536; July 6; v. 276; p. 41.

Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Sighting device for guns. No. 1,346,303; July 13; v. 276; p. 255.

Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Electrical signaling system. No. 1,347,258; July 20; v. 276; p. 502.

Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Recoil apparatus of ordnance. No. 1,350,593; Aug. 24; v. 277; p. 652.

Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Gun-mounting. No. 1,352,791; Sept. 14; v. 278; p. 246.

Dawson, Arthur T. and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Ordnance firing mechanism. No. 1,360,195; Nov. 23; v. 280; p. 737.

Dawson, Arthur T., and G. T. Buckham, Westminster, London, assignors to Vickers Limited, Westminster, England. Sighting apparatus for anti-aircraft guns. No. 1,360,730; Nov. 30; v. 280; p. 910.

Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Indicating instrument for use in connection with fuse-setting operations. No. 1,364,039; Dec. 28; v. 281; p. 730.

Dawson, Arthur T., Westminster, London, and J. Horne, Barrow-in-Furness, assignors to Vickers Limited, Westminster, London, England. Ammunition-hoisting apparatus. No. 1,346,302; July 13; v. 276; p. 254.

Dawson, Arthur T., Westminster, and J. Horne, Barrow-in-Furness, assignors to Vickers Limited, Westminster, London, England. Sighting apparatus for use with ordnance. No. 1,364,040; Dec. 28; v. 281; p. 739.

Dawson, Arthur T., Westminster, and J. Horne, Barrow-in-Furness, assignors to Vickers Limited, Westminster, London, England. Sighting apparatus for use with ordnance. No. 1,364,041; Dec. 28; v. 281; p. 739.

Dawson, Charles, Paden City, W. Va. Glass-rolling apparatus. No. 1,341,547; May 25; v. 274; p. 752.

Dawson, Herbert R., assignor to E. R. Morley, F. Morley, and H. R. Dawson, Lewisham, London, England. Piano-player. No. 1,355,653; Oct. 12; v. 279; p. 289.

Dawson, James, Oakland, assignor to C. G. Campbell, Alameda county, Calif. Fuel-economizer for cooking-stoves. No. 1,346,445; July 13; v. 276; p. 282.

Dawson, James C., Webster Groves, Mo. Binding-strip for loose-leaf ledgers and covering same. No. 1,329,379; Feb. 3; v. 271; p. 7.

Dawson, James C., Webster Groves, Mo. Ledger. No. 1,340,157; May 18; v. 274; p. 416.

Dawson, James C., Webster Groves, Mo. Bookbinding. No. 1,358,421; Nov. 9; v. 280; p. 299.

Dawson, James V., Oskaloosa, Iowa, assignor of one-half to J. L. Mitchell, What Cheer, Iowa. Automobile shock-absorber. No. 1,347,939; July 27; v. 276; p. 693.

Dawson, Josiah, Philadelphia, Pa., assignor to The Globe Automatic Sprinkler Company. Fusible strut. No. 1,342,203; June 1; v. 275; p. 116.

Dawson Manufacturing Company. (See Dawson, Sidney, assignor.)

Dawson, Miles, New Haven, Conn. Sanitary garbage-can attachment. No. 1,360,732; Nov. 30; v. 280; p. 911.

Dawson, Richard T. (See Scribner, William L., assignor.)

Dawson, Sidney, assignor to Dawson Manufacturing Company, Chicago, Ill. Grease-cup. No. 1,345,434; July 6; v. 276; p. 21.

Dawson, Sidney, assignor to Dawson Manufacturing Company, Chicago, Ill. Grease-cup. No. 1,348,154; Aug. 3; v. 277; p. 4.

Dawson, Vernon B., Bridgeton, N. J. Combined eraser-holder and point-protector for pencils. No. 1,353,896; Sept. 28; v. 278; p. 567.

Dawson, William. (See Williams, William M., assignor.)

Dawson, William G., Mount Vernon, N. Y. Washing-machine. No. 1,349,370; Aug. 10; v. 277; p. 294.

Dawson, William L., Humble, Tex. Cotton-chopper. No. 1,354,958; Oct. 5; v. 279; p. 102.

Day, Benjamin R., Winfield, Kans. Photographer's developing-rack. No. 1,347,620; July 27; v. 276; p. 630.

Day, Charles, assignor, by mesne assignments, to L. S. Skelton, Okmulgee, Okla. Glass-drawing pot. No. 1,333,903; Mar. 16; v. 272; p. 439.

Day, Charles T., Oceanport, N. J. Wire-stripper. No. 1,349,563; Aug. 17; v. 277; p. 405.

Day, David T., Washington, D. C. Extracting oils and hydrocarbon material from shale and similar bituminous rocks. No. 1,342,741; June 8; v. 275; p. 273.

Day, Frank S., *et al.* (See Shapiro, Herman, assignor.)

Day, George H., Rochester, N. Y. Ophthalmic mounting. No. 1,335,818; Mar. 30; v. 272; p. 812.

Day, George H., Rochester, N. Y. Temple for spectacles. No. 1,335,823; Apr. 6; v. 273; p. 22.

Day, George H., Rochester, N. Y. Ophthalmic mounting. No. 1,344,293; June 22; v. 275; p. 707.

Day, George H., Cuba, Ill. Apparatus for continuously separating juices from materials. No. 1,350,788; Aug. 24. v. 277; p. 689.

Day, George H., assignor to American Optical Company, Southbridge, Mass. Eye-protector. No. 1,340,701; May 18; v. 274; p. 519.

Day, George H., assignor to American Optical Company, Southbridge, Mass. Temple. No. 1,340,879; May 25; v. 274; p. 623.

Day, George H., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,343,437; June 15; v. 275; p. 474.

Day, George H., assignor to American Optical Company, Southbridge, Mass. Forming filled mountings. No. 1,345,143. June 29; v. 275; p. 937.

Day, George H., assignor to American Optical Company, Southbridge, Mass. Eye-testing instrument. No. 1,348,092; July 27; v. 276; p. 724.

Day, George H., assignor to E. Kirstein Sons Company, Rochester, N. Y. Ophthalmic mounting. No. 1,348,155; Aug. 3; v. 277; p. 4.

Day, Herbert W., Wollaston, assignor to Spray Engineering Company, Boston, Mass. Mechanism for applying coating to shells and other articles. No. 1,347,994; July 27; v. 276; p. 704.

Day, James A., Knoxville, Tenn. Screen. No. 1,363,234; Dec. 28; v. 281; p. 584.

Day, James E., Isabella, Manitoba, Canada. Gate-hinge. No. 1,358,710; Nov. 16; v. 280; p. 400.

Day, John L., Memphis, Tenn. Fuel-tank. No. 1,352,792; Sept. 14; v. 278; p. 246.

Day, Percy C., Milwaukee, assignor to The Falk Company, Wauwatosa, Wis. Lubricating system. No. 1,334,844; Mar. 23; v. 272; p. 663.

Day, Percy C., Milwaukee, assignor to The Falk Company, Wauwatosa, Wis. Transmission-gearing. No. 1,348,963; June 22; v. 275; p. 643.

Day, Ralph E., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Method and apparatus for removing tires from cores. No. 1,332,812; Mar. 2; v. 272; p. 122.

Day, Roland B., Swarthmore, Pa.; assignor to A. B. Adams, New York, N. Y. Apparatus for treatment of hydrocarbon oils. No. 1,357,276; Nov. 2; v. 280; p. 14.

Day, Roland B., Swarthmore, Pa., assignor to A. B. Adams, New York, N. Y. Treatment of hydrocarbon oils. No. 1,357,277; Nov. 2; v. 280; p. 15.

Day, Roland B., Swarthmore, Pa., assignor to A. B. Adams, New York, N. Y. Apparatus for treatment of hydrocarbon oils. No. 1,357,278; Nov. 2; v. 280; p. 15.

Day, Thomas. (See Collins, J. H., and Day.)

Day, Wilfred E. L. (See Hamburger, A., and Day.)

Day, William E., Pittsburgh, Pa. Connecting-rod bearing. No. 1,341,548; May 25; v. 274; p. 752.

Day, William H., Hounslow, London, England. Machine for molding tablets of compressed food and the like. No. 1,341,226; May 25; v. 274; p. 690.

Day and Zimmerman. (See Remington, Joseph P., assignor.)

Dayon, Albert, Dollard, Saskatchewan, Canada. Toy. No. 1,354,381; Sept. 28; v. 278; p. 665.

Daysh, Norman J., Poughkeepsie, N. Y., assignor to The De Laval Separator Company. Milking machinery. No. 1,352,726; Sept. 14; v. 278; p. 232.

Dayton Engineering Laboratories Company, The. (See Haas, Nelson R., assignor.)

Dayton Engineering Laboratories Company, The. (See Kettering, Charles F., assignor.)

Dayton Engineering Laboratories Company, The. (See Midgley, Thomas, Jr., assignor.)

Digitized by Google

Dayton Engineering Laboratories Company, The. (See Millward, John R., assignor.)
Dayton Engineering Laboratories Company, The. (See Mooney, William H., assignor.)
Dayton Engineering Laboratories Company, The. (See Schwarz, Elmer H., assignor.)
Dayton, Frank E., Chicago, Ill. Apparatus for eye treatment No. 1,362,682; Dec. 21; v. 281; p. 436.
Dayton, James S., Cumberland, Md. Buggy and rack for handling tin. No. 1,333,472; Mar. 9; v. 272; p. 298.
Dayton Malleable Iron Company, The. (See Mason, William C., assignor.)
Dayton Steel Foundry Company, The. (See Walther, George, assignor.)
Dayton-Wright Company. (See Jacobs, James M. H., assignor.)
Daywitt, Albert N., Frankfort, Ind. Road-grader. No. 1,349,498; Aug. 10; v. 277; p. 319.
Deacon, Harlow S., Philadelphia, Pa. Sound-reproducer. No. 1,332,661; Mar. 2; v. 272; p. 93.
De Aguiar, Abelardo, Habana, Cuba. Scale. No. 1,333,473; Mar. 9; v. 272; p. 298.
De Aguiar, Pedro P., Habana, Cuba. Condiment-holder. No. 1,346,007; July 6; v. 276; p. 134.
Deak, Alexander and J., Brooklyn, N. Y. Aerial vessel. No. 1,327,529; Jan. 6; v. 270; p. 121.
Deak, Joseph. (See Deak, Alexander and J.)
Deakins, Grover C., and H. A. Harker, Fullerton, assignors of one-third to W. T. Alling, Anaheim, Calif. Overshot. No. 1,336,684; Apr. 13; v. 273; p. 245.
Deam, Henry D., Benton Harbor, Mich. Salvaging apparatus. No. 1,332,433; Mar. 2; v. 272; p. 50.
Deam, Henry D., Benton Harbor, Mich. Salvaging apparatus. No. 1,332,889; Mar. 9; v. 272; p. 288.
Deam, Henry D., Benton Harbor, Mich. Salvaging apparatus. No. 1,338,816; May 4; v. 274; p. 31.
Dean, Anthony E. (See Winters, Robert E., assignor.)
Dean, Charles L., Denver, Colo. Drying solutions. No. 1,350,072; Aug. 17; v. 277; p. 503.
Dean, Clarence. (See Ivanhoe, George C., assignor.)
Dean, Clark A., assignor, by mesne assignments, to Shurnuff Manufacturing Company, St. Louis, Mo. Automobile-axle construction. No. 1,341,265; May 25; v. 274; p. 697.
Dean, George E., assignor to Union Steel Products Company, Ltd., Albion, Mich. Metal shelf or rack. No. 1,334,293; Mar. 23; v. 272; p. 558.
Dean, James, New York, N. Y. Motor-driven vehicle. No. 1,338,680; May 4; v. 274; p. 6.
Dean, James H., assignor to Cole Manufacturing Company, Chicago, Ill. Draft attachment for stoves. No. 1,327,988; Jan. 13; v. 270; p. 268.
Dean, James H., Chicago, Ill. Sifter for flour-bins. No. 1,342,989; June 8; v. 275; p. 328.
Dean, John, Racine, Wis. Tinning or soldering aluminum. No. 1,340,264; May 18; v. 274; p. 435.
Dean, John, Racine, Wis. Bar-solder. No. 1,355,654; Oct. 12; v. 279; p. 289.
Dean, John S., Winkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Commutator-cylinder. No. 1,329,267; Jan. 27; v. 270; p. 575.
Dean, John S., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Brush-holder. No. 1,361,968; Dec. 14; v. 281; p. 245.
Dean, John S., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Brush-holder for dynamo-electric machines. No. 1,363,721; Dec. 28; v. 281; p. 678.
Dean, John S., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Brush-holder. No. 1,363,722; Dec. 28; v. 281; p. 678.
Dean, Mark, Boonville, N. Y. Signal-operating device for automobiles. No. 1,351,745; Sept. 7; v. 278; p. 6.
Dean-Osgood, Henry J., Loughborough, assignor to H. W. Sullivan, London, England. Tumbler-switch. No. 1,339,171; May 4; v. 274; p. 96.
Dean, Peter P., New York, N. Y. Driving mechanism for valves and other devices. No. 1,330,790; Feb. 17; v. 271; p. 369.
Dean, Royal H., Sioux City, Iowa. Combination-tool. No. 1,358,530; Nov. 9; v. 280; p. 320.
Dean, Thomas, Indianapolis, Ind. Machine for making book-covers. No. 1,336,944; Apr. 13; v. 273; p. 296.
Dean, Thomas H., Dayton, Ohio. Sash-lock. No. 1,357,849; Nov. 2; v. 280; p. 124.
Dean, Vernie, Detroit, Mich. Hospital or sleeping garment. No. 1,340,381; May 18; v. 274; p. 458.
Dean, William W., Stamford, Conn., assignor to Splitdorf Electrical Company, Newark, N. J. Ignition-generator. No. 1,327,375; Jan. 6; v. 270; p. 92.
Dean, William W., Wilmette, Ill., assignor to Efficiency Electric Corporation, New York, N. Y. Frictional governor. No. 1,349,050; Aug. 10; v. 277; p. 230.
Dean, William W., Rochester, N. Y., assignor to Stromberg-Carlson Telephone Manufacturing Company. Telephone-receiver. No. 1,350,594; Aug. 24; v. 277; p. 652.
Deane, Willard A., Westport, Conn., assignor to The Dorr Company. Treatment of colloid-containing mediums. No. 1,359,037; Nov. 16; v. 280; p. 464.
Deans, Frank B., Sharon Hill, and B. K. Kirk, assignors to The Baldwin Locomotive Works, Philadelphia, Pa. Mechanism for operating the reels of mine-locomotives. No. 1,337,048; Apr. 13; v. 273; p. 315.
Dearborn Truck Company. (See Williams, Harrison R., assignor.)
Deardon, Frederick S. (See Hirst, Harry R., assignor.)
Deardorff, Ralph W., San Francisco, Calif. Electrical receiving device. No. 1,358,138; Nov. 9; v. 280; p. 241.
De Arozarena y Mendive, Roberto. (See Santoz y Suarez, Isaac.)
De Arrigunaga, Manuel, New York, N. Y. Device for the preparation of coffee or like beverages. No. 1,346,485; July 13; v. 276; p. 290.
Deathridge, Arthur. (See Hope R. W., and Deathridge.)
Deats, Verne F., Tiffin, Ohio. Jar-lifter. No. 1,359,968; Nov. 23; v. 280; p. 692.
Deaver, Luther C., Culberson, N. C. Railway-rail coupling. No. 1,349,607; Aug. 17; v. 277; p. 413.
Debakey, Shiker M., Lake Charles, La. Show-case. No. 1,337,049; Apr. 13; v. 273; p. 316.
Debakey, Shiker M., Lake Charles, La. Home-store. No. 1,337,050; Apr. 13; v. 273; p. 316.
Debakey, Shirker M., Lake Charles, La. Automobile auxiliary table. No. 1,337,886; Apr. 20; v. 273; p. 458.
De Barros, Jose, Imperial, Calif. Nut-marking machine. No. 1,339,881; May 11; v. 274; p. 306.
De Bats, Jean H. L., Zelienople, Pa., assignor to New Process Metals Corporation, Wilmington, Del. Carbonizing-furnace. No. 1,333,796; Mar. 16; v. 272; p. 416.
De Bats, Jean H. L., Zelienople, Pa., assignor to New Process Metals Corporation, Wilmington, Del. Carbonizing iron and steel. No. 1,335,094; Mar. 30; v. 272; p. 770.
De Bats, Jean H. L., Stoneham, Mass., assignor to New Process Metals Corporation, Wilmington, Del. Method of and apparatus for melting and casting metals. No. 1,354,286; Sept. 28; v. 278; p. 647.
De Bats, Jean H. L., Stoneham, Mass., assignor to New Process Metals Corporation, Wilmington, Del. Graphite-mold. No. 1,359,156; Nov. 16; v. 280; p. 486.
De Baufre, William L., Annapolis, Md. System of evaporation. No. 1,361,834; Dec. 14; v. 281; p. 217.
De Baun, Harry C., M. M. Schwer, and C. Kerkhof, Hackensack, N. J. Paper bottle. No. 1,361,370; Dec. 7; v. 281; p. 78.
Debay, George C., Springdale, Pa. Building-block-molding machine. No. 1,362,928; Dec. 21; v. 281; p. 483.
De Beaumont, Norman, New York, N. Y. Belt. No. 1,345,750; July 6; v. 276; p. 83.
De Beaumont, Norman, New York, N. Y. Button. No. 1,359,038; Nov. 16; v. 280; p. 464.
De Becker, Leon A., St. Margarets-on-Thames, England. Cabinet for gramophone and like records. No. 1,336,206; Apr. 6; v. 273; p. 95.
De Beer, Jacob, Rotterdam, Netherlands. Device for the lowering of life-boats. No. 1,355,655; Oct. 12; v. 279; p. 289.
De Bella, Felippe. (See Virga, John B., assignor.)
De Bernyz, Bertrand, New York, N. Y. Instrument for use of music teachers, &c. No. 1,331,053; Feb. 17; v. 271; p. 421.
De Bernyz, Bertrand, New York, N. Y. Respiration-indicator. No. 1,357,545; Nov. 2; v. 280; p. 65.
De Boyrie, Eugène, Colonia El Sitio, Ermita, Cuba. Means for transporting harvested products. No. 1,341,042; May 25; v. 274; p. 654.
De Brandt, William F., Melbourne, Victoria, assignor to The 'Fogarty' Patent Interchangeable Harvesting Corporation Limited, Perth, Western Australia, Australia. Grain or other box or compartment of harvesting-machines. No. 1,332,813; Mar. 2; v. 272; p. 122.
De Brandt, William F., Melbourne, Victoria, assignor to The Fogarty Patent Interchangeable Harvester Corporation Limited, Perth, Western Australia, Australia. Harvesting-machine. No. 1,346,182; July 13; v. 276; p. 230.
De Brayer, Alfred, Paris, France. Machine for printing or reproducing addresses and other typed or written matter. No. 1,349,807; Aug. 17; v. 277; p. 452.
Debs, Louis H., assignor of one-half to A. Cohn, Chicago, Ill. Musical toy. No. 1,354,959; Oct. 5; v. 279; p. 102.
Decalmo Machine Co. (See Rosenfeld, Maurice S., assignor.)
De Camp, James W. (See Reynolds, Delbert J., assignor.)
De Camp, James W., Blackwell, Okla. Glass casket and carrier therefor. No. 1,349,412; Aug. 10; v. 277; p. 302.
De Camp, Ray E., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Motor-control system. No. 1,354,173; Sept. 28; v. 278; p. 623.
De Camp, Roy L., assignor to Baker Iron Works, Los Angeles, Calif. Safety door interlocking switch. No. 1,356,698; Oct. 26; v. 279; p. 582.
De Camp, William S., Chillicothe, Ohio. Shovel. No. 1,355,541; Oct. 12; v. 279; p. 268.
De Campi, Eliodoro, Chicago, Ill., assignor to United Lead Company, New York, N. Y. Lead-base alloy. No. 1,360,272; Nov. 30; v. 280; p. 820.
De Canio, Victor A., Union Hill, N. J. Mortuary refrigerator. No. 1,329,510; Feb. 3; v. 271; p. 32.
De Cano, Victor M., St. Louis, Mo., assignor, by mesne assignments, to Utility Devices Company. Ironing-board. No. 1,332,715; Mar. 2; v. 272; p. 103.
De Cano, Victor M., Chicago, assignor of one-half to W. H. Hinz, Oak Park, and one-half to R. F. Starr, Chicago, Ill. Folding ironing-board. No. 1,350,857; Aug. 24; v. 277; p. 701.

Digitized by Google

De Cardenas, Ambrose. (See Ramos, R., and de Cardenas.)
De Carlo, Vincenzo, Wireton, Pa. Field-kitchen. No. 1,335,941; Apr. 6; v. 273; p. 45.
De Cazen, Canaan, Montreal, Quebec, Canada. Means for propelling and steering ships. No. 1,337,442; Apr. 20; v. 273; p. 463.
De Cew, Judson A., Montreal, Quebec, Canada. Oil and soap solution and making same. No. 1,330,173; Feb. 10; v. 271; p. 187.
De Cew, Judson A., Montreal, Quebec, Canada. Method and apparatus for emulsifying oil solutions and the like. No. 1,330,174; Feb. 10; v. 271; p. 187.
De Cew, Judson A., Montreal, Quebec, Canada. Making lubricating composition. No. 1,336,207; Apr. 6; v. 273; p. 95.
De Cew, Judson A., Montreal, Quebec, Canada. Oil and soap solution. No. 1,337,546; Apr. 20; v. 273; p. 488.
De Cew, Judson A., New York, N. Y. Making emulsions. No. 1,347,734; July 27; v. 276; p. 653.
Dech, Henry, assignor to Mercer Tire Company, Trenton, N. J. Inner tube and making same. No. 1,340,702; May 18; v. 274; p. 519.
Dech, Henry, assignor to Mercer Tire Company, Trenton, N. J. Inner tube and method of and apparatus for making same. No. 1,340,703; May 18; v. 274; p. 519.
Dech, Henry, assignor to Mercer Tire Company, Trenton, N. J. Inner tube and making same. No. 1,340,704; May 18; v. 274; p. 519.
Dech, Henry, assignor to Mercer Tire Company, Trenton, N. J. Making inner tubes. No. 1,354,174; Sept. 28; v. 278; p. 623.
De Champtassin, Paul, Paris, France Mechanotherapeutic and gymnastic apparatus. No. 1,354,804; Oct. 5; v. 279; p. 72.
De Chew, Judson A., New York, N. Y. Producing cellulose fiber. No. 1,354,731; Oct. 5; v. 279; p. 56.
Deck, John F. A., Okmulgee, Okla. Knockdown clamp-tank. No. 1,341,049; May 25; v. 274; p. 752.
Deck, Lee, Winfield, Kans. Closure for radiator manifold-pipes. No. 1,329,700; Feb. 3; v. 271; p. 66.
Decker, Charles I., *et al.* (See Loyd, Clarence E., assignor.)
Decker, George W., assignor of one-third to E. A. Kern and one-third to G. A. Friedricks, Erie, Pa. Stop and waste cock. No. 1,350,362; Aug. 24; v. 277; p. 605.
Decker, Harry R., Houston, Tex. Well-boring apparatus. No. 1,355,896; Oct. 19; v. 279; p. 377.
Decker, Walter P. (See Longfellow, Henry W., assignor.)
Decker, Walter W., Minneapolis, Minn. Name-piece for umbrellas. No. 1,346,810; July 20; v. 276; p. 414.
Decker, William J., Detroit, Mich. Curtain-window. No. 1,347,499; July 27; v. 276; p. 606.
Decker, William L., Great Kills, N. Y. Stencil. No. 1,355,542; Oct. 12; v. 279; p. 268.
Decker, William M., Buffalo, N. Y. Cap for nursing-bottles and the like. No. 1,351,328; Aug. 31; v. 277; p. 857.
Decker, Hugh L., and H. E. Adams, assignors to The W. G. Nagel Electric Company, Toledo, Ohio. Oil-can holder. No. 1,353,898; Sept. 28; v. 278; p. 567.
De Clairmont, Adolfo, assignor to The Carbo Gas Company, Incorporated, Toledo, Ohio. Decarbonizer. No. 1,356,967; Oct. 26; v. 279; p. 634.
De Clamecy, Philippe, Boston, Mass., assignor to Corona Typewriter Company, Inc., Groton, N. Y. Collapsible typewriting-machine. No. 1,355,818; Oct. 19; v. 279; p. 362.
De Clamecy, Philippe, Charlestown, Mass., assignor to Corona Typewriter Company, Inc., Groton, N. Y., a Corporation of New York. Collapsible typewriting-machine. No. 1,355,819; Oct. 19; v. 279; p. 362.
De Clamecy, Philippe, Boston, Mass., assignor to Corona Typewriter Company, Inc., Groton, N. Y., Typewriting-machine. No. 1,355,820; Oct. 19; v. 279; p. 362.
De Clercq, Hendrik, Amsterdam, Netherlands. Drawing-board. No. 1,346,593; July 13; v. 276; p. 311.
De Correvont, Howard P., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Flexible-shaft lubrication. No. 1,357,965; Nov. 9; v. 280; p. 207.
De Correvont, Howard P., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Flexible-shaft lubrication. No. 1,357,966; Nov. 9; v. 280; p. 207.
De Costa, Arthur V., Providence, R. I. Toy. No. 1,337,758; Apr. 20; v. 273; p. 524.
De Coursey, William, San Francisco, Calif. Combined ore grinder and amalgamator. No. 1,343,041; June 8; v. 275; p. 333.
De Créquy, Paul, New Brighton, England. Aeroplane. No. 1,354,728; Oct. 5; v. 279; p. 56.
Decrette, Charles, New York, N. Y. Metal-bending machine. No. 1,333,751; Mar. 16; v. 272; p. 411.
Decuir, Joseph O. (See Runyam, Benjamin F., assignor.)
Deden, Freda L., Fort Smith, Ark. Typewriter attachment. No. 1,353,150; Sept. 21; v. 278; p. 375.
Dederer, Carleton, Los Angeles, Calif. Surgical forceps. No. 1,356,048; Oct. 19; v. 279; p. 407.
Dederich, William. (See Willner, Sigmund, assignor.)
Dedik, Yuraj, Boswell, Pa. Rail-joint. No. 1,363,574; Dec. 28; v. 281; p. 649.
De Does, Peter J., assignor to The Toledo Parlor Furniture Company, Toledo, Ohio. Foldable bed-frame. No. 1,348,156; Aug. 3; v. 277; p. 5.
De Dominicis, Vincent, and F. A. Reip, East Orange, N. J. Aeroplane control. No. 1,348,548; Aug. 3; v. 277; p. 81.
Deeds, Charles B., Savanna, Ill. Collapsible tire-rim. No. 1,358,711; Nov. 16; v. 280; p. 401.
Deem, Arthur S., assignor of one-half to C. A. Brossman, Reading, Pa. Fuse-plug. No. 1,338,426; Apr. 27; v. 273; p. 719.
Deemar, Henry V., St. Louis, Mo. Gas-burning apparatus. No. 1,341,266; May 25; v. 274; p. 697.
Deems, Edward M., Forest Hills, N. Y. Rail-bond. No. 1,333,904; Mar. 16; v. 272; p. 439.
Deen, James L. (See McGrother, J. F., and Deen.)
Deere & Company. (See Brown, Theophilus, assignor.)
Deere and Company. (See Courtney, Thomas S., assignor.)
Deere & Company. (See Dooley, Harry L., assignor.)
Deere and Company. (See Holstein, John V., assignor.)
Deere & Company. (See Howard, Otis W., assignor.)
Deere & Company. (See Neighbour, Leonard B., assignor.)
Deere and Company. (See Paul, William L., assignor.)
Deere & Company. (See Sklovsky, Max, assignor.)
Deere & Mansur Company. (See White, Charles E., assignor.)
Deering, Julius H., Brainerd, Minn. Attachment for automobile-seats. No. 1,340,754; May 18; v. 274; p. 528.
Deerr, Noël, Brooklyn, N. Y. Apparatus for macerating bagasse. No. 1,346,594; July 13; v. 276; p. 311.
Deeter, George C., Mechanicsburg, Pa. Metal alloy. No. 1,340,437; May 18; v. 274; p. 469.
Deets, Clarence L., Portland, Oreg. Fishing-reel. No. 1,353,113; Sept. 14; v. 278; p. 308.
De Esparza, Timoteo R., assignor of two-fifths to P. Barnes and one-tenth to F. Defoy, Calexico, Calif. Marine propulsion. No. 1,329,228; Jan. 27; v. 270; p. 568.
Deever, Frederick P., assignor of one-half to A. B. Cooper, Mannington, W. Va. Nut-lock. No. 1,336,733; Apr. 13; v. 273; p. 255.
D'Errico, Alfonso, Boston, Mass. Resilient wheel. No. 1,341,842; June 1; v. 275; p. 45.
De Felice, Carlo. (See Bonali, Frank, assignor.)
De-Felice, Carlo, New York, N. Y. Magazine-feed and gun for using same. No. 1,354,432; Sept. 28; v. 278; p. 676.
De-Felice, Carlo, New York, N. Y. Lens-clarifying apparatus. No. 1,354,433; Sept. 28; v. 278; p. 676.
Defenbaugh, Carl C., Winnemucca, Nev. Combination potato masher and beater. No. 1,353,520; Sept. 21; v. 278; p. 448.
De Fernelmont, Leonard H., Philadelphia, Pa. Mold for making building-tile. No. 1,342,208; June 1; v. 275; p. 117.
De Ferranti, Sebastian Z., Baslow, England. Electrical transformer. No. 1,336,894; Apr. 13; v. 273; p. 286.
Defert, Ernest, St. Chamond, France. Reversible rolling-mills and manufacture of weldless tubes and other hollow bodies. No. 1,361,025; Dec. 7; v. 281; p. 9.
Deffenbaugh, Estella, Berkeley, Calif. Auxiliary stove-top. No. 1,354,029; Sept. 28; v. 278; p. 594.
Defiance Button Machine Co. (See Bischoff, Herman, assignor.)
Defiance Check Writer Corporation. (See Plant, Henry J., assignor.)
Defiance Machine Works. (See McCarty, William F., assignor.)
De Filippis, Raymond, Brooklyn, N. Y. Variable-steering device for vehicles. No. 1,332,545; Mar. 2; v. 272; p. 71.
De Filippis, Raymond, Brooklyn, N. Y. Automatic steering device for vehicles. No. 1,357,491; Nov. 2; v. 280; p. 54.
De Forest, Edgar A., assignor to Marvel Machinery Company, Minneapolis, Minn. Boring-machine. No. 1,337,893; Apr. 20; v. 273; p. 455.
De Forest, Lee, assignor to De Forest Radio Telephone and Telegraph Company, New York, N. Y. Oscillating-current generator. No. 1,329,758; Feb. 3; v. 271; p. 77.
De Forest, Lee, assignor to De Forest Radio Telephone and Telegraph Company, New York, N. Y. Apparatus for amplifying pulsating electric currents. No. 1,348,157; Aug. 3; v. 277; p. 5.
De Forest, Lee, assignor to De Forest Radio Telephone and Telegraph Company, New York, N. Y. Radio-telephone system. No. 1,348,213; Aug. 3; v. 277; p. 16.
De Forest, Lee, assignor to De Forest Radio Telephone & Telegraph Company, New York, N. Y. Wireless telephone system. (Reissue.) No. 14,959; Oct. 19; v. 279; p. 497.
De Forest Radio Telephone and Telegraph Company. (See De Forest, Lee, assignor.)
Defoy, Fred, *et al.* (See de Esparza, Timoteo R., assignor.)
De Frain, Joseph. (See Stipes, R. R., and De Frain.)
De Franc, John R., Brooklyn, N. Y. Automobile-fender. No. 1,361,692; Dec. 7; v. 281; p. 143.
De France, Ellsworth P., Lakeside, Nebr. Bitless bridle. No. 1,338,474; Mar. 9; v. 272; p. 298.
De Froy, Jules. (See Bernier, Henry N., assignor.)

Digitized by Google

De Garay, Francis J., Brooklyn, N. Y. Apparatus for sinking excavations for foundations, piers, columns, &c. No. 1,331,186; Feb. 17; v. 271; p. 445.
Degen, Otto W., Alameda, and W. Degen, San Francisco, Calif. Dry-kiln. No. 1,332,164; Feb. 24; v. 271; p. 648.
Degen, Walter. (See Degen, O. W. and W.)
Degener, Gustave O., Brooklyn, N. Y., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,347,621; July 27; v. 276; p. 630.
Degenkolb, Paul F., Itasca, Ill. Box-opening device. No. 1,354,893; Oct. 5; v. 279; p. 89.
Degenkolb, Paul F., Itasca, Ill. Wiper for windshields and the like. No. 1,357,691; Nov. 2; v. 280; p. 92.
Degge, Marvin E., Kress, Tex. Attachment for listercultivators. No. 1,355,454; Oct. 12; v. 279; p. 251.
De Ghetto, Anselm, Clifton, N. J. Household potato-peeler. No. 1,355,393; Oct. 12; v. 279; p. 240.
D'Eglibert, William A., and B. Garland, Willows, Calif. Hog-box. No. 1,348,093; July 27; v. 276; p. 725.
De Goenaga, Augusto H., Gobleville, Mich. Combined pocket-case and sterilizer for surgical instruments. No. 1,348,938; Aug. 10; v. 277; p. 208.
De Golyer, Anthony G., Ouray, and A. E. Lund, Denver, Colo. Extraction and recovery of tungsten. No. 1,335,277; Mar. 30; v. 272; p. 804.
De Graff, Fannie, Ilwaco, Wash. Waffle-iron. No. 1,336,734; Apr. 13; v. 273; p. 255.
De Graff, George A., Milwaukee, Wis., assignor of one-half to H. J. Smith, Chicago, Ill. Hose-clamp tool. No. 1,330,431; Feb. 10; v. 271; p. 234.
De Graff, George A., Milwaukee, Wis., assignor of one-half to H. J. Smith, Chicago, Ill. Dolly extension. No. 1,336,073; Apr. 6; v. 273; p. 70.
De Graff, Jan, Detroit, Mich. Register. No. 1,359,360; Nov. 16; v. 280; p. 526.
De Graw, Abram C. (See De Graw, Wilber, assignor.)
De Graw, Wilber, Woodcliff, N. J., assignor to A. C. De Graw, New York, N. Y. Automobile-bumper. No. 1,355,592; Oct. 12; v. 279; p. 278.
Degnan, Edward, Kenosha, Wis. Wearing-apparel. No. 1,358,940; Nov. 16; v. 280; p. 447.
De Grazia, Joseph, Washington, D. C. Cap. No. 1,357,620; Nov. 2; v. 280; p. 79.
De Guenther, Edward J., Milwaukee, Wis. Cover-rim for closet-bowls. No. 1,335,095; Mar. 30; v. 272; p. 770.
De Guenther, Edward J., Milwaukee, Wis. Hinge for closet-tops. No. 1,337,643; Apr. 20; v. 273; p. 502.
Deguide, Camille. (See Ciselet, E., and Deguide.)
De Hernández, Lolamora, Buenos Aires, Argentina. Projection apparatus. No. 1,344,682; June 29; v. 275; p. 849.
Dehn, William J., Blenker, Wis. Bolt-holder. No. 1,334,352; Mar. 23; v. 272; p. 570.
Dehn, William M., Seattle, Wash. Process of and apparatus for estimating alcohol in beverages and the like. No. 1,333,905; Mar. 16; v. 272; p. 439.
Dehuff, Walter F., Glen Rock, Pa. Dough-mixer. No. 1,329,164; Jan. 27; v. 270; p. 556.
Deibert, William E., Reading, Pa. Cylinder-lock. No. 1,343,438; June 15; v. 275; p. 474.
Deiley, Harvey R. (See Lindstrom, J. T., and Deiley.)
Deiley, Harvey R., Bethlehem, assignor of one-half to J. T. Lindstrom, Allentown, Pa. Automobile safety-signal. No. 1,351,773; Sept. 7; v. 278; p. 11.
Deininger, Arthur E., St. Paul, Nebr. Vaccine-injector. No. 1,347,622; July 27; v. 276; p. 630.
Deininger, John, Blaubeuren, Germany. Screw-press. No. 1,354,446; Sept. 28; v. 278; p. 678.
Deister, Emil, assignor to Deister Machine Company, Fort Wayne, Ind. Concentrating apparatus. No. 1,334,524; Mar. 23; v. 272; p. 602.
Deister, Emil and W. F., assignors to Deister Machine Company, Fort Wayne, Ind. Ore-concentrator. No. 1,335,824; Apr. 6; v. 273; p. 23.
Deister Machine Company. (See Deister, Emil, assignor.)
Deister Machine Company. (See Deister, Emil and W. F., assignors.)
Deister, William F. (See Deister, Emil and W. F.)
Deitrich, Homer H., Hegins, Pa. Shotgun. No. 1,362,478; Dec. 14; v. 281; p. 344.
De Kalb, J. Emmons, *et al.* (See Schott, John H., assignor.)
De Khotinsky, Achilles, assignor to Central Scientific Company, Chicago, Ill. Circuit-controlling mechanism. No. 1,350,369; Aug. 24; v. 277; p. 606.
De Koning, Jacob, assignor to Grand Rapids Grinding Machine Company, Grand Rapids, Mich. Grinding-machine. No. 1,363,194; Dec. 21; v. 281; p. 535.
De Lacy, Thomas H., Trenton, N. J. Heel shaping and drying attachment for hosiery-forms. No. 1,355,317; Oct. 12; v. 279; p. 225.
Delaga, Gustave, Issy-les-Moulineaux, assignor to Societe Anonyme des Etablissements, Nieuport, Issy-les-Moulineaux, France. Apparatus for constructing sectional molds. No. 1,361,835; Dec. 14; v. 281; p. 218.
Delage, Gustave, assignor to Societe Anonyme Des Etablissements Nieuport, Issy les Moulineaux, France. Penetration-cone for aircraft. No. 1,331,187; Feb. 17; v. 271; p. 445.
Delage, Gustave, assignor to Societe Anonyme Des Etablissements Nieuport, Issy-les-Moulineaux, France. Aeroplane. No. 1,331,807; Feb. 24; v. 271; p. 582.
Delahey, George W. (See Delahey, Wallace A., and G. W.)
Delahey, Wallace A. and George W., Ottawa, Ontario, Canada. Tire-inflator. No. 1,359,795; Nov. 23; v. 280; p. 658.
Delamater, George R., Haddon Heights, N. J., assignor to Pennsylvania Crusher Company, Philadelphia, Pa. Apparatus for washing coal and the like. No. 1,332,814; Mar. 2; v. 272; p. 122.
Delamater, George R., Steelton, Pa. Mineral-washing apparatus. No. 1,352,727; Sept. 14; v. 278; p. 238.
Delamotte, Leopold. (See Mauclaire, R., and Delamotte.)
De Lander, August J., Spokane, Wash. Nail-driving implement. No. 1,340,705; May 18; v. 274; p. 519.
Delaney, Andrew E., Ashland, Wis. Card-holder. No. 1,361,310; Dec. 7; v. 281; p. 65.
Delaney, Edward C., New York, N. Y. Seating plan and class-record. No. 1,352,728; Sept. 14; v. 278; p. 233.
Delaney, James T., assignor to The Emca Manufacturing Company, Bridgeport, Conn. Fire-alarm. No. 1,356,909; Oct. 26; v. 279; p. 623.
Delaney, James T., assignor of one-half to Harry M. Williams, Bridgeport, Conn. Sprinkler-head. No. 1,362,236; Dec. 14; v. 281; p. 298.
Delaney, John S., assignor to Woodward & Cochey, Inc., Lynn, Mass. Finishing-welt. No. 1,360,196; Nov. 23; v. 280; p. 737.
Delaney, Patrick J., Shenandoah, Pa. Holder for cleansing instruments. No. 1,357,963; Nov. 9; v. 280; p. 207.
Delaney, Thomas W., St. Paul, Minn. Valve mechanism for engines. No. 1,331,188; Feb. 17; v. 271; p. 445.
De Lange, Pieter, and R. A. van Lynden, Utrecht, Netherlands, assignors, by mesne assignments, to American Thermophone Company, Boston, Mass. Sounding-chamber for thermic telephones and other apparatus. No. 1,328,620; Jan. 20; v. 270; p. 425.
Delano, James K., Jr., New York, N. Y. Electrical starting and ignition system. No. 1,330,520; Feb. 10; v. 271; p. 251.
Delano, James K., New York, N. Y. Starting device for internal-combustion engines. No. 1,337,887; Apr. 20; v. 273; p. 549.
Delano, James K., New York, N. Y. Power transmission. No. 1,339,258; May 4; v. 274; p. 112.
Delano, James K., New York, N. Y. Engine-starting system. No. 1,344,870; June 29; v. 275; p. 885.
Delano, James K., Yonkers, N. Y. Electrical starting and ignition system. (Reissue.) No. 14,842; Apr. 20; v. 273; p. 568.
Delany, Edward L., Brooklyn, N. Y. Flush-tank valve. No. 1,334,136; Mar. 16; v. 272; p. 483.
Delany, Edward L., Brooklyn, N. Y. Auxiliary toilet-seat. No. 1,334,137; Mar. 16; v. 272; p. 484.
Delany, Patrick B., South Orange, N. J., and L. W. Shumaker, New York, N. Y., assignors to Telepost Company, New York, N. Y. Apparatus for treating telegraph-tape. No. 1,350,789; Aug. 24; v. 277; p. 689.
Delany, Patrick B., South Orange, N. J., and L. W. Shumaker, New York, N. Y., assignors to Telepost Company, New York, N. Y. Telegraphy. No. 1,350,790; Aug. 24; v. 277; p. 689.
De La Pena, Simon, Central, N. Mex. Blacksmith's anvil. No. 1,361,311; Dec. 7; v. 281; p. 66.
Delaporte, Maurice, Paris, France. Steam-ejector. No. 1,328,270; Jan. 20; v. 270; p. 358.
De Lapotterie, Otto H., assignor to Townsend Company, New Brighton, Pa. Metal-working machine. No. 1,341,808; June 1; v. 275; p. 39.
De Laval, George. (See Towle, Elton L., assignor.)
De Laval Separator Company, The. (See Boyd, Frederic R. C., and Hapgood, assignors.)
De Laval Separator Company, The. (See Daysh, Norman J., assignor.)
De Laval Separator Company, The. (See Hall, Selden H., assignor.)
De Laval Separator Company, The. (See Hapgood, Cyrus H., assignor.)
De Laval Separator Company, The. (See Leitch, Meredith, assignor.)
De Laval Separator Company, The. (See Wright, Bert R., assignor.)
De Laval Steam Turbine Company. (See Waller, Carl R., assignor.)
Delavan, Sophia E., Chicago, Ill., assignor to El Dorado Jones, New York, N. Y. Exhaust-muffler. No. 1,340,158; May 18; v. 274; p. 417.
De Lavaud, Dimitri S., New York, N. Y. Rotary casting. No. 1,329,295; Jan. 27; v. 270; p. 580.
De Lavaud, Dimitri S., New York, N. Y. Rotary casting. No. 1,329,296; Jan. 27; v. 270; p. 580.
De Layaud, Dimitri S., New York, N. Y. Rotary casting. No. 1,329,754; Feb. 3; v. 271; p. 76.
De La Vergne Machine Company. (See Crawford, Gilbert H., assignor.)
De La Vergne Machine Company. (See Doelling, Louis K., assignor.)
De La Vergne Machine Company. (See Price, William T., assignor.)

Digitized by Google

Delaware Chemical Engineering Company. (See Du Pont, Francis I., assignor.)
Delaygue, Charles, Paris, France. Apparatus for ice-making and refrigerating purposes. No. 1,337,888; Apr. 20; v. 273; p. 549.
Delaygue, Charles, Paris, France. Ammonia-dissolving composition for use in refrigeration apparatus. No. 1,345,144; June 29; v. 275; p. 937.
Delbare, Hector E., Chicago, Ill. Moistening device. No. 1,356,910; Oct. 26; v. 279; p. 623.
Del Borgo, Britannio S., Paris, France. Sound-reproducing device. No. 1,354,474; Oct. 5; v. 279; p. 5.
Delco-Light Company, The. (See Kettering, Charles F., assignor.)
Delco-Light Company, The. (See Kettering, C. F., and Chryst, assignors.)
Delco-Light Company, The. (See Midgley, Thomas, Jr., assignor.)
De Leeuw, Joseph, The Hague, Netherlands. Keyless lock. No. 1,346,080; July 6; v. 276; p. 149.
De Lemos, Ernesto, New York, N. Y. Paper box. No. 1,337,507; Apr. 20; v. 273; p. 476.
Delén, Johan O., Gottenborg, Sweden. Gas-lighter. No. 1,360,197; Nov. 23; v. 280; p. 737.
De Leon, Andrés P., Manila, Philippine Islands. Automatic eraser. No. 1,363,848; Dec. 28; v. 281; p. 703.
Delieuvin, Paul A. M., Neuilly-sur-Seine, France. Device for increasing the adherence of agricultural tractors to the soil. No. 1,327,376; Jan. 6; v. 270; p. 92.
Deliman, George, Bridgeport, assignor of one-half to M. W. Galya, Fairfield, Conn. Valve-lifter. No. 1,356,194; Oct. 19; v. 279; p. 437.
De Lisle, Otto R., San Francisco, Calif., assignor, by mesne asignments, to Pacific Camera Company. Motion-picture camera and projector. No. 1,334,981; Mar. 23; v. 272; p. 681.
Delkin, Anton, Seattle, Wash. Loose-leaf device. No. 1,354,894; Oct. 5; v. 279; p. 89.
Dellert, Louis J., Brooklyn, N. Y. Suction-controlling device. No. 1,349,499; Aug. 10; v. 277; p. 319.
Dellgren, Karl, Västervik, Sweden. Liquid-pump. No. 1,327,272; Jan. 6; v. 270; p. 73.
Dellgren, Karl, Västervik, Sweden. Guard for grinding-wheels and similar rotating bodies. No. 1,335,228; Mar. 30; v. 272; p. 794.
Dellinger, Martin C. (See Kulp, H. W., and Dellinger.)
Delohi, Nicholas J., Ritchie, Ill. Automobile-door-opening device. No. 1,338,560; Apr. 27; v. 273; p. 745.
De Long, A., Scheepswerf en Machinefabrick, Firma. (See Rooker, Johannes G. F., assignor.)
De Long, Charles E., New York, N. Y. Watch-escapement. No. 1,327,226; Jan. 6; v. 270; p. 65.
De Long, Cyrus W., Gainesville, Fla. Vaginal douche and medicator. No. 1,327,705; Jan. 13; v. 270; p. 216.
De Long Hook and Eye Company, The. (See Galt, William J., Jr., assignor.)
De Long, Nelson, Chicago, Ill. Stand. No. 1,335,726; Apr. 6; v. 273; p. 4.
Delong, Nelson M., Washington, D. C. Sandpapering-machine. No. 1,331,843; Feb. 24; v. 271; p. 589.
De Long, Oscar T., Atlanta, Ga. Clamp for vulcanizing-machines. No. 1,347,213; July 20; v. 276; p. 492.
De Lorme, Alfred C., East Orange, assignor to Splitdorf Electrical Company, Newark, N. J. Safety spark-gap for magnetos. No. 1,353,566; Sept. 21; v. 278; p. 457.
De Lorme, Alfred C., East Orange, assignor to Splitdorf Electrical Company, Newark, N. J. Ignition system. No. 1,353,990; Sept. 28; v. 278; p. 586.
De Lorme, Alfred C., East Orange, assignor to Splitdorf Electrical Company, Newark, N. J. Ignition system. No. 1,360,273; Nov. 30; v. 280; p. 820.
De Lorme, Alfred C., East Orange, assignor to Splitdorf Electrical Company, Newark, N. J. Ignition system. No. 1,360,274; Nov. 30; v. 280; p. 821.
De Lorme, Alfred C., East Orange, assignor to Splitdorf Electrical Company, Newark, N. J. Ignition system. No. 1,361,313; Dec. 7; v. 281; p. 66.
De Lorme, Alfred C., East Orange, assignor to Splitdorf Electrical Company, Newark, N. J. Ignition system. No. 1,361,314; Dec. 7; v. 281; p. 66.
De los Monteros, Rafael E., New York, N. Y. Electric mercury-switch. No. 1,351,101; Aug. 31; v. 277; p. 811.
Delpark Inc. (See Hemmick, Clarence C., assignor.)
Delque, Mrs., *et al.* (See Motte, Charles M., assignor.)
Del Re, Domenico, Iron River, Mich. Life-preserver helmet. No. 1,348,094; July 27; v. 276; p. 725.
De Luca, Pasquale T., New York, N. Y. Cushion-heel for shoes. No. 1,338,817; May 4; v. 274; p. 31.
De Luce, Robert, Fresno, Calif. Producing lime-potash fertilizer from potash-bearing minerals and lime. No. 1,345,077; June 29; v. 275; p. 924.
De Lukacsevics, Charles, assignor to J. Winter, New York, N. Y. Carbureter. No. 1,337,051; Apr. 13; v. 273; p. 316.
De Luxe Brush Company, The. (See Loeben, Gustave A., assignor.)
Del Solar, Aristides, assignor to A. R. Shrigley, trustee, Boston, Mass. Torpedo-director. No. 1,346,273; July 13; v. 276; p. 249.
Del Solar, Aristides, assignor to Alfred R. Shrigley, trustee, Boston, Mass. Torpedo-director. No. 1,362,685; Dec. 21; v. 281; v. 436.
Del Valle, Antonio M., New York, N. Y. Centrifugal clarifier. No. 1,350,009; Aug. 17; v. 277; p. 491.
Del Valle, Francisco de A., San Juan, Porto Rico. Fumigating apparatus. No. 1,332,109; Feb. 24; v. 271; p. 638.
Demaine, George, Nogales, Ariz. Ore-separating machine. No. 1,339,056; May 4; v. 274; p. 76.
Demarest, Charles S., assignor to American Telephone and Telegraph Company, Brooklyn, N. Y. Vacuum-bulb for signaling apparatus. No. 1,353,031; Sept. 14; v. 278; p. 292.
Demarest, Charles, S., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Testing-circuits for repeaters equipped with automatic network-selectors. No. 1,355,897; Oct. 19; v. 279; p. 377.
Demarest, Charles S., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Testing and monitoring equipment for repeater-circuits. No. 1,355,898; Oct. 19; v. 279; p. 377.
Demarest, Charles S., and H. F. Shoffstall, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company. Testing apparatus. No. 1,361,026; Dec. 7; v. 281; p. 9.
Demarest, Thomas W., Fort Wayne, Ind. Automatic drain-valve. No. 1,343,550; June 15; v. 275; p. 496.
De Marinis, Francis, Brooklyn, N. Y. Balloon construction. No. 1,329,584; Feb. 3; v. 271; p. 45.
Demarmels, Peter, New York, N. Y., and A. Winkler, Bayonne, N. J. Wooden shoe or sandal. No. 1,341,498; May 25; v. 274; p. 743.
De Martin, Celeste, West New York, assignor to Robert Reiner, Incorporated, Weehawken, N. J. Connecting and disconnecting mechanism for embroidering-machines. No. 1,361,520; Dec. 7; v. 281; p. 110.
De Martin, Charles L., and H. C. Foster, assignors to Indiana Lamp Company, Connersville, Ind. Lamp construction. No. 1,342,426; June 8; v. 275; p. 212.
De Martino, Joseph, assignor to Simplex Corporation, Chicago, Ill. Motor-vehicle lock. No. 1,333,581; Mar. 9; v. 272; p. 318.
De Martino, Joseph, assignor to Mechanical Improvement Co., Chicago, Ill. Power-transmission mechanism. No. 1,349,328; Aug. 10; v. 277; p. 285.
Demas, Demetreos J., Pittsburgh, Pa. Resilient tire. No. 1,337,443; Apr. 20; v. 273; p. 464.
Demas, Demetreos J., Pittsburgh, Pa. Fastening means for tire-chains. No. 1,361,693; Dec. 7; v. 281; p. 143.
De Mattei, Natale, Turin, Italy. Apparatus for making coffee and the like. No. 1,357,445; Nov. 2; v. 280; p. 46.
De Matteis, Alfredo, assignor to De Matteis Broiler System Co., Inc., New York, N. Y. Meat-broiling machine. No. 1,358,365; Nov. 9; v. 280; p. 287.
De Matteis Broiler System Co. (See De Matteis, Alfredo, assignor.)
De Mattia, Constant, assignor to Wolverine Truck-Trailer Co., Detroit, Mich. Trailer. No. 1,354,175; Sept. 28; v. 278; p. 624.
Demerath, Joseph M., Rochester, N. Y. Nut-blanching machine. No. 1,350,549; Aug. 24; v. 277; p. 642.
Demeule, Dorila, Manchester, N. H., assignor to Draper Corporation, Hopedale, Mass. Protector-rod holder for looms. No. 1,331,626; Feb. 24; v. 271; p. 548.
Deming Company, The. (See Deming, W. L., and Cornwall, assignors.)
Deming, Edwin W., Redding, Conn. Range-finder. No. 1,353,151; Sept. 21; v. 278; p. 376.
Deming, Eugene W., New York, N. Y. Bag-filter. No. 1,334,692; Mar. 23; v. 272; p. 633.
Deming, William L., and C. Cornwall, assignors to The Deming Company, Salem, Ohio. Spraying device. No. 1,348,631; Aug. 3; v. 277; p. 97.
Demling, John W. (See Franck, Val F., assignor.)
Demlinger, Morris, Somerville, Mass. Hammock. No. 1,330,688; Feb. 10; v. 271; p. 282.
Demming, Albert H., Canton, Ohio. Shade-roller and curtain-pole support. No. 1,357,964; Nov. 9; v. 280; p. 207.
Demmitt, Albert V., New Carlisle, Ohio. Egg-tray. No. 1,332,110; Feb. 24; v. 271; p. 639.
Demmler, Charles A. (See Wirth and Demmler.)
Demmler, Max A. (See Markmann, D. H., and Demmler.)
Demorest, Edmurn L., Columbus, Ohio, assignor to J. E. Jones, Switchback, W. Va. Tractor-wheel. No. 1,336,074; Apr. 6; v. 273; p. 70.
De Montmollin, Guillaume, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Acid wool dyestuffs. No. 1,359,969; Nov. 23; v. 280; p. 693.
De Moulin, Ulysses S., Greenville, Ill. Legging. No. 1,341,885; June 1; v. 275; p. 53.
Dempsey, Edward M., Sidney, Ohio. Faucet. No. 1,336,026; Apr. 6; v. 273; p. 61.
Dempsey, Thomas J., Corry, Pa. Surface trimming or planing machine. No. 1,330,172; May 4; v. 274; p. 97.
Dempster Mill Manufacturing Company. (See Thomas, William, assignor.)
Demuth, Alfred M., Chicago, Ill. Slicing-machine. No. 1,337,596; Apr. 20; v. 273; p. 493.

Digitized by Google

Demuth, Alfred M., Chicago, Ill. Steam-table. No. 1,356,518; Oct. 26; v. 279; p. 546.
Demuth, Alfred M., assignor to J. A. Kelly, Chicago, Ill. Ham shaper and binder. No. 1,358,063; Nov. 9; v. 280; p. 227.
Demuth, Michael J., Dubuque, Iowa. Sign-holder. No. 1,359,492; Nov. 23; v. 280; p. 597.
Denby, Harry, Cleveland, Ohio. Wire-loom. No. 1,351,233; Aug. 31; v. 277; p. 837.
Dence, Carl, assignor of one-fourth to M. J. Joyce, Brooklyn, N. Y. Table. No. 1,353,728; Sept. 21; v. 278; p. 490.
Dendy, Nathaniel W., Asheville, N. C. Bed-warming device. No. 1,347,995; July 27; v. 276; p. 704.
Deneau, William M., assignor of one-half to H. Paschen, Chicago, Ill. Life-preserver. No. 1,339,617; May 11; v. 274; p. 256.
Denemark, Jacob, Trenton, N. J. Machine for pressing seams. No. 1,337,204; Apr. 20; v. 273; p. 419.
De Neault, William, Chicago, Ill. Sound-reproducer for phonographs. No. 1,358,624; Nov. 9; v. 280; p. 339.
Denhard, Harry W., San Francisco, Calif. Bookmark. No. 1,334,525; Mar. 23; v. 272; p. 602.
Denis, Albert D., *et al.* (See Genin, John B., assignor.)
Denis, Louis, Liege, Belgium. Sawing-machine. No. 1,346,446; July 13; v. 276; p. 283.
Denivelle, Otto E., Mount Vernon, N. Y. Doll's eye. No. 1,354,382; Sept. 28; v. 278; p. 666.
De Neergaard, Elna M., New York, N. Y. Loom. No. 1,332,165; Feb. 24; v. 271; p. 648.
De Neergaard, Elna M., New York, N. Y. Loom. No. 1,332,166; Feb. 24; v. 271; p. 648.
Denison, Charles M., East Orange, N. J. Cinder-guard. No. 1,333,063; Mar. 9; v. 272; p. 221.
Denison, George W., Cleveland, Ohio. Wall construction. No. 1,343,312; June 15; v. 275; p. 449.
De Nisson, A. C. (See Richards, Albert J., assignor.)
Denman, Hugh E., Harwood, Tex. Fork. No. 1,343,811; June 15; v. 275; p. 548.
Denmead, John W., Akron, Ohio. Attaching means for rubber heels. No. 1,344,443; June 22; v. 275; p. 737.
Denmire, Harold A., assignor of one-half to The General Tire & Rubber Company, Akron, Ohio. Collapsible tire-core. No. 1,358,941; Nov. 16; v. 280; p. 447.
Denne, Mark T., Rushden, England. Stitch-forming mechanism for sewing-machines. No. 1,346,183; July 13; v. 276; p. 230.
Dennehy, William H., *et al.* (See McGrath, Lawrence A., assignor.)
Dennert, Edward C., Detroit, Mich. Radiator. No. 1,340,382; May 18; v. 274; p. 458.
Dennert, Edward C., assignor to Westinghouse Electric and Manufacturing Company, Detroit, Mich. Beverage-preparing machine. No. 1,352,435; Sept. 14; v. 278; p. 173.
Denning, Joseph M., Denver, Colo. Fence-machine. No. 1,340,530; May 18; v. 274; p. 486.
Dennington, Arthur R., East Orange, N. J., assignor to Westinghouse Lamp Company. Optical apparatus and operating same. No. 1,338,818; May 4; v. 274; p. 31.
Dennis, Adolphus S., Cleveland, Ohio, assignor to Marchant Calculating Machine Company. Calculating-machine. No. 1,356,605; Oct. 26; v. 279; p. 563.
Dennis, Ernest A., Glenroy, New Zealand. Picnic and other food-holder. No. 1,327,948; Jan. 13; v. 270; p. 261.
Dennis, Fred C., Blair, Okla. Automatic gasolene-dispensing machine. No. 1,347,147; July 20; v. 276; p. 479.
Dennis, Louis M., Ithaca, N. Y. Sulfonation of hydrocarbons of the aromatic series. No. 1,332,203; Mar. 2; v. 272; p. 5.
Dennis, Medley, *et al.* (See Medley, Granville E., assignor.)
Dennis, Morton, *et al.* (See Medley, Granville E., assignor.)
Dennis, Samuel K., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Seed-planter. No. 1,327,089; Jan. 6; v. 270; p. 40.
Dennis, Samuel K., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Clutch mechanism for corn-planters and like machines. No. 1,327,090; Jan. 6; v. 270; p. 40.
Dennis, William K. (See Goodwin, James D., assignor.)
Dennison, Charles H., Wollaston, Mass., assignor to American Rubber Company. Coloring fibrous material. No. 1,332,974; Mar. 9; v. 272; p. 204.
Dennison, Herbert J. S. (See Thompson and Dennison.)
Dennison, William L., Columbus, Ohio. Holder for bed-covers. No. 1,328,621; Jan. 20; v. 270; p. 425.
Denny, William E., assignor to Victor Traction Gear Co., Loudonville, Ohio. Hand-operated dump-body hoist. No. 1,357,279; Nov. 2; v. 280; p. 15.
De Normanville, Samuel A., Ealing, and L. H. Kent, Stanmore, England. Visual weather-screen. No. 1,340,025; May 11; v. 274; p. 333.
Denson, Jessie D., Grand Rapids, Mich. Aeroplane. No. 1,336,982; Apr. 13; v. 273; p. 302.
Denson, Jessie D., Grand Rapids, Mich. Aeroplane. No. 1,341,886; June 1; v. 275; p. 54.
Denson, Jessie D., Grand Rapids, Mich. Landing-brake for aeroplanes. No. 1,360,901; Nov. 30; v. 280; p. 943.
Dent, Samuel H., Chicago, Ill. Hot-air furnace. No. 1,361,371; Dec. 7; v. 281; p. 78.
Dental Electric Company. (See Alden, Milton, assignor.)
Dentists' Supply Company, The. (See Off, Edward P., assignor.)
Dentists' Supply Company, The. (See Peschko, Rudolph J., assignor.)
Dentists' Supply Company, The. (See Sheppard, John R., assignor.)
Dentists' Supply Company, The. (See Whiteley, George H., Jr., assignor.)
Dentler, Charles H., *et al.* (See Warrenfeltz, Edward M., assignor.)
Denton, John, and A. L. Skinner, Bridgeport, Ill. Gas-regulator. No. 1,349,945; Aug. 17; v. 277; p. 478.
Denton, William P., assignor of one-third to G. W. Long, and one-third to G. O. Long, South Melbourne, Victoria, Australia. Air-blower. No. 1,333,294; Mar. 9; v. 272; p. 264.
Denver Fire Clay Company. (See Lindsay, George W., assignor.)
Denver Rock Drill Manufacturing Company, The. (See Chase, Harry M., assignor.)
Denver Rock Drill Manufacturing Company. (See Nell, Gustave M., assignor.)
Denver Rock Drill Manufacturing Company, The. (See Schelb, Peter, assignor.)
Denver Rock Drill Manufacturing Company, The. (See Smith, William A., assignor.)
Department of Soldiers Civil Re-Establishment, Invalided Soldiers' Commission, The. (See Birchard, Eslie R., assignor.)
Depatie, Theophile, Montreal, Quebec, Canada. Building construction. No. 1,339,596; May 11; v. 274; p. 252.
De Pere-Burton Company. (See Burton, Thomas H., assignor.)
Depew, Lewis, Phillipsburg, N. J. Chain and belt connector and holder. No. 1,355,389; Oct. 12; v. 279; p. 238.
Depew, Rufus, Brooklyn, N. Y. Gas-burner for heaters. No. 1,352,358; Sept. 7; v. 278; p. 123.
De Poe, Stanley R., Washington, D. C., assignor to Corona Typewriter Company, Inc., Groton, N. Y. Compactible typewriting-machine. No. 1,356,812; Oct. 26; v. 279; p. 604.
De Polo, Robert, Connellsville, Pa. Heater. No. 1,363,575; Dec. 28; v. 281; p. 649.
Deposited Metal Products Company. (See Hart, Austin H., assignor.)
Deppé, William P., Bay Shore, N. Y. Internal-combustion engine. No. 1,335,665; Mar. 30; v. 272; p. 877.
Deppé, William P., Bay Shore, N. Y. Superheater-manifold for internal-combustion engines. No. 1,360,098; Nov. 23; v. 280; p. 718.
Deppeler, John H., Weehawken, assignor to Metal & Thermit Corporation, Chrome, N. J. Method of and article for alloying tungsten. No. 1,350,709; Aug. 24; v. 277; p. 674.
De Prez, John D. (See Dobbins, Douglas, assignor.)
De Proszynski, Casimir, New York, N. Y. Projecting apparatus. No. 1,357,621; Nov. 2; v. 280; p. 79.
Depue, Harold T., Kensington, Md. Combination-action for organs. No. 1,349,820; Aug. 17; v. 277; p. 454.
De Pue, Stanley R., Washington, D. C., assignor to Corona Typewriter Company, Inc., Groton, N. Y. Compactible typewriting-machine. No. 1,356,813; Oct. 26; v. 279; p. 604.
Deputy, Elijah E., assignor to M. R. Deputy, East Downingtown, Pa. Paper-rolling device. No. 1,357,385; Nov. 2; v. 280; p. 35.
Deputy, Marshall P. (See Deputy, Elijah E., assignor.)
Depuy, Charles A., and C. C. Oliver, Newton, Mass. Safety steering device for automobiles. No. 1,334,082; Mar. 16; v. 272; p. 473.
De Puydt, Albert, and H. De Vleminck, Liege, Belgium. Hydraulic transmission of power. No. 1,333,012; Mar. 9; v. 272; p. 211.
Dequede, William, New Orleans, La. Mop-wringer. No. 1,350,791; Aug. 24; v. 277; p. 690.
Deranek, Joseph P., East St. Louis, Ill. Piston packing ring. No. 1,340,650; May 18; v. 274; p. 509.
Derby, Charles D. (See Ripsch, C. W., Dawley, and Derby.)
Derby, Hollis J., Amherst, Ohio. Device for stopping trains or cars. No. 1,347,996; July 27; v. 276; p. 705.
Derby, John H., and E. S. Clayton, New York, N. Y., assignors to American Fire Prevention Bureau, Inc. Electric-circuit thermostat. No. 1,347,735; July 27; v. 276; p. 653.
Derby, P., & Company. (See Bancroft, F. H., assignor.)
De Remer-Blatchford Company. (See Blum, Max, assignor.)
De Rieux, Lee O. (See Thompson, George H., assignor.)
De Ritis, Nicola, Binghamton, N. Y. Railway telephone system. No. 1,357,622; Nov. 2; v. 280; p. 80.
Derksen, Gerhard, Hales Corners, Wis. Lifting-jack. No. 1,356,699; Oct. 26; v. 279; p. 582.
Derocher, Napoleon. (See Spencer, H. B., Short, and Derocher.)
De Ros, Dudley, Greenhithe, England. Oxidation of tin. No. 1,362,237; Dec. 14; v. 281; p. 298.

Digitized by Google

De Rosier, David, Braddock, Pa. Face-mask. No. 1,342,897; June 8; v. 276; p. 305.
De Rosier, David, Braddock, Pa. Face-mask. No. 1,342,898; June 8; v. 275; p. 305.
Derr, Charles E., Detroit, Mich., assignor, by mesne assignments, to J. E. Gleason, trustee, Rochester, N. Y. Gear manufacture. No. 1,330,521; Feb. 10; v. 271; p. 251.
Derr, Charles E., Detroit, Mich., assignor, by mesne assignments, to J. E. Gleason, trustee, Rochester, N. Y. Gear-cutting machine. No. 1,339,921; May 11; v. 274; p. 314.
Derr, Claude A. (See Burns, Eugene A., assignor.)
Derr, Thomas S., Brookline, Mass. Water-level indicator. No. 1,357,850; Nov. 2; v. 280; p. 124.
Derr, William R., assignor of one-half to W. J. Lillie, New York, N. Y. Locking clothespin. No. 1,340,159; May 18; v. 274; p. 417.
Derrenbacher, William, New York, N. Y. Method and means for packing candy. No. 1,361,312; Dec. 7; v. 281; p. 66.
Derringer, Stephen, Camden, N. J., assignor to Dietz Machine Works, Philadelphia, Pa. Tube-making machine. No. 1,340,706; May 18; v. 274; p. 519.
Derrom, Donald L., Chicago, Ill. Lathe. No. 1,329,042; Jan. 27; v. 270; p. 533.
Derry, Theodore J., Windsor, Ontario, Canada. Window-cleaning device. No. 1,338,002; Apr. 27; v. 273; p. 640.
Derscha, Joseph, Flint, Mich. Amount-certification rubber check-stamp for banks. No. 1,347,259; July 20; v. 276; p. 502.
Derse, Arthur F., Union Course, and W. B. Wilshusen, Mount Vernon, N. Y. Combined case and table. No. 1,357,623; Nov. 2; v. 280; p. 80.
Derungs, Ernest A., assignor to Societe Anonyme Ateliers Otis Pifre, Paris, France. System of haulage. No. 1,346,447; July 13; v. 276; p. 283.
Derungs, Ernest A., assignor to Societe Anonyme Ateliers Otis-Pifre, Paris, France. System of haulage. No. 1,360,902; Nov. 30; v. 280; p. 943.
Dery, Rosario. (See Quintal, Domina, assignor.)
De St. Laurent, Eugene E. P. J. P. S. J., Twickenham, England, assignor to The Aluminum Solder Co. Limited. Manufacturing solder. No. 1,338,966; May 4; v. 274; p. 58.
De Saunier, Charles L. B., Paris, France. Vehicle-coupling attachment. No. 1,338,561; Apr. 27; v. 273; p. 745.
De Saunier, Charles L. B., Paris, France. Coupling-shock absorber. No. 1,356,270; Oct. 19; v. 279; p. 451.
De Saussure, Frank M., Jr., Greenville, S. C. Ladder. No. 1,341,707; June 1; v. 275; p. 18.
De Santis, Salvatore, Naples, Italy. Stabilizing flying-machines. No. 1,360,198; Nov. 23; v. 280; p. 737.
Desautels, Charles H., Springfield, Mass. Overhead switch. No. 1,337,121; Apr. 13; v. 273; p. 329.
De Save, Arthur E., Mobile, Ala. Crow's-nest for ships. No. 1,354,383; Sept. 28; v. 278; p. 666.
Des Combes, Henry C., Chilhowee, Mo. Seal. No. 1,334,353; Mar. 23; v. 272; p. 570.
Deschauer, Rudolph H., Chicago, Ill. Machine for making twist-drills. No. 1,341,636; June 1; v. 275; p. 4.
De Segundo, Edward C., London, England. Defibration of hulls of cotton or other fiber-bearing seeds. No. 1,329,828; Feb. 3; v. 271; p. 90.
Desert Fibre Company. (See Holdaway, Hall H., assignor.)
Deshane, Albert W. Cosmopolis, Wash. Tie-holder. No. 1,340,755; May 18; v. 274; p. 528.
De Sherbinin, Eric M., New York, N. Y. Holder for rocket-bombs. No. 1,332,716; Mar. 2; v. 272; p. 103.
De Sibour, Jules H., Washington, D. C. Hatband. No. 1,328,823; Jan. 27; v. 270; p. 491.
Designers Instrument Company. (See Grau, Albert, assignor.)
Desmarais, Samuel, Cleveland, Ohio. Comb. No. 1,347,260; July 20; v. 276; p. 502.
De Smet, Edgard C., assignor to S. C. Pandolfo, St. Cloud, Minn. Collapsible footrest. No. 1,327,706; Jan. 13; v. 270; p. 216.
De Smith, Henry, assignor to M. D. Knowlton Company, Rochester, N. Y. Finger-guard for box-covering and similar machines. No. 1,330,850; Feb. 17; v. 271; p. 381.
De Smith, Henry, assignor to M. D. Knowlton Company, Rochester, N. Y. Safety operating mechanism. No. 1,354,895; Oct. 5; v. 279; p. 89.
Des Moineaux, Alfred V., Denver, Colo. Detachable heel. No. 1,343,353; June 15; v. 275; p. 457.
D'Esopo, Salvator, Hartford, Conn. Mirror-bracket. No. 1,358,422; Nov. 9; v. 280; p. 299.
Desoutter, Charles, London, England. Artificial leg. No. 1,335,781; Apr. 6; v. 273; p. 15.
Desoutter, Leon C., London, England. Artificial leg. No. 1,343,617; June 15; v. 275; p. 509.
D'Espujols, Robert L., Joinville le Pont, France. Valve-gear of fluid-pressure engines. No. 1,360,099; Nov. 23; p. 280; p. 718.
Desrochers, Basile, Beauceville, Quebec, Canada. Rail-joint. No. 1,359,233; Nov. 16; v. 280; p. 501.
Dessaules, Paul, Nanterre, France. Tractor. No. 1,336,828; Apr. 13; v. 273; p. 272.
De Stefano, Angelo, Ridgefield Park, N. J. Music-leaf turner. No. 1,363,063; Dec. 21; v. 281; p. 510.
Desure, Samuel, New York, N. Y. Electric-power table. No. 1,332,434; Mar. 2; v. 272; p. 50.
Désy, Louis A., Montreal, Quebec, Canada. Plowing-machine. No. 1,349,821; Aug. 17; v. 27; p. 454.
De Teixeira, Anna L. H. (See De Teixeira, Eugenio, assignor.)
De Teixeira, Eugenio, assignor to A. L. H. De Teixeira, Setauket, N. Y. Pipe-cutting die. No. 1,334,232; Mar. 16; v. 272; p. 500.
De Teixeira, Eugenio, assignor to A. L. H. De Teixeira, Setauket, N. Y. Table implement. No. 1,353,090; Sept. 14; v. 278; p. 304.
Detmer Woolen Company. (See Kaiser, Richard C., assignor.)
Det Norske Aktieselskab for Elektrokemisk Industri. (See Hvidsten, T. M., and Ingelsrud, assignors.)
Det Norske Aktieselskab for Elektrokemisk Industri, Norsk Industri-Hypotekbank. (See Goldschmidt, Heinrich J., assignor.)
Det Norske Aktieselskab for Elektrokemisk Industri of Norway. (See Goldschmidt, V. M., and Ravner, assignors.)
Detroit Accessories Corporation. (See Strickland, Silas A., assignor.)
Detroit Auto Accessories Co. (See Young, George W., assignor.)
Detroit Automatic Lock-Nut Company. (See Murray, Edward, assignor.)
Detroit Automatic Scale Company. (See King, B. W., and Burkeiser, assignors.)
Detroit Automatic Scale Company. (See King, Bert W., assignor.)
Detroit Automatic Scale Company. (See Riedel, Charles E., assignor.)
Detroit Belt Lacer Company. (See Garilus, B., and Knott, assignors.)
Detroit Carrier and Manufacturing Company. (See Taylor, Huston, assignor.)
Detroit Closed Bushing Company. (See Temple, H. M., and Kearney, assignors.)
Detroit Electrical Branding Iron Company. (See Garner, Joseph C., assignor.)
Detroit Machine Tool Company. (See Swanson, Harry J., assignor.)
Detroit Mechanical Engineering Company. (See Lavigne, Joseph P., assignor.)
Detroit Motor Appliance Company. (See Crawford, Howard H., assignor.)
Detroit Pressed Steel Company. (See Peltier, August O., assignor.)
Detroit Steel Casting Company. (See Allen, Walter S., assignor.)
Detroit Stoker Company. (See Fitts, Edwin, assignor.)
Detroit Stove Works. (See Barbour, W. T., and Mersfelder, assignors.)
Detroit Stove Works. (See Fry, John A., assignor.)
Detroit Stove Works. (See Mersfelder, William L., assignor.)
Detroit Stove Works. (See Schall, Henry D., assignor.)
Detroit Tire Carrier Co. (See Wasserfallen, Charles F., assignor.)
Dettman, Max, San Francisco, Calif. Match-box holder. No. 1,343,354; June 15; v. 275; p. 457.
Detwiler, Charles N., Toledo, Ohio. Stud-attaching means for electric outlet members. No. 1,344,077; June 22; v. 275; p. 665.
Detwiler, Elmer E., York, Pa. Wheeled toy. No. 1,362,086; Dec. 14; v. 281; p. 268.
Detzel, Adam E., Cincinnati, Ohio. Safety-starter. No. 1,331,697; Feb. 24; v. 271; p. 560.
Deubel, Joseph, New York, N. Y. Rotary gas-engine. No. 1,362,400; Dec. 14; v. 281; p. 329.
Deutsch, Fritz, and J. H. Riedling, Memphis, Tenn., assignors of one-third to said Deutsch, one-third to said Riedling, and one-third to J. E. McCadden. Piston-ring. No. 1,360,733; Nov. 30; v. 280; p. 911.
Deutsch, Isidor, Avalon, Pa., assignor to Westinghouse Electric and Manufacturing Company. Switch for electric circuits. No. 1,339,922; May 11; v. 274; p. 314.
Deutscher, Philip, Indianapolis, Ind. Vulcanizing apparatus. No. 1,331,982; Feb. 24; v. 271; p. 615.
Devarco, Paul, West Hoboken, N. J. Reversible broom and the like. No. 1,345,353; July 6; v. 276; p. 6.
De Varebeke, Paul J. (See Copetta, César, assignor.)
De Vaughn, Harry E., assignor to United States Window Glass Company, Morgantown, W. Va. Window-glass-flattening oven. No. 1,352,881; Sept. 14; v. 278; p. 264.
De Vault, Ralph P., Battle Creek, Mich. Motion-picture apparatus. No. 1,347,326; July 20; v. 276; p. 515.
De Vault, Ralph P., Battle Creek, Mich. Intermittent gearing for motion-picture apparatus. No. 1,355,543; Oct. 12; v. 279; p. 269.
De Vault, Ralph P., Battle Creek, Mich. Motion-picture apparatus. No. 1,362,985; Dec. 21; v. 281; p. 494.
Devey, John, Lehi, assignor of two-thirds to Utah Idaho Sugar Co., Salt Lake City, Utah. Beet-harvesting machine. No. 1,331,957; Feb. 24; v. 271; p. 610.
Devey, John, Lehi, Utah. Beet-topping machine. No. 1,351,287; Aug. 31; v. 277; p. 848.

Digitized by Google

Devey, Walter A., American Fork, Utah. Automatic weighing apparatus. No. 1,345,838; July 6; v. 276; p. 100.

De Vignier, Robert M., Hollis, assignor to Western Electric Company, Incorporated, New York, N. Y. Button. No. 1,333,013; Mar. 9; v. 272; p. 212.

De Vilbiss, John A., and H. L. Miller; said De Vilbiss assignor to G. F. Ernst, St. Louis, Mo. Intensifier for spark-plugs. No. 1,335,940; Apr. 6; v. 273; p. 44.

De Vilbiss Manufacturing Company, The. (See Miskella, William J., assignor.)

De Villers, Louis A., Winnipeg, Manitoba, Canada. Blind attachment. No. 1,333,906; Mar. 16; v. 272; p. 439.

Devine, George F., Portland, Me. Locomotive roundhouse-jack. No. 1,337,347; Apr. 20; v. 273; p. 446.

De Vito, Louis, Cleveland, Ohio. Machine for making flat macaroni. No. 1,332,485; Mar. 2; v. 272; p. 50.

De Vito, William, Dorchester, Mass. Shoe-grip. No. 1,361,969; Dec. 14; v. 281; p. 245.

De Vleminck, Hippolyte. (See De Puydt, A., and Vleminck.)

Devlin, Thomas F., Philadelphia, Pa. Expansion-bolt. No. 1,361,836; Dec. 14; v. 281; p. 218.

De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Ornamental-stitch sewing-machine. No. 1,334,650; Mar. 23; v. 272; p. 625.

De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Looper mechanism for over-sewing-machines. No. 1,334,651; Mar. 23; v. 272; p. 625.

De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Strip-winding device. No. 1,334,652; Mar. 23; v. 272; p. 626.

De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Chain-stitch sewing-machine. No. 1,335,047; Mar. 30; v. 272; p. 761.

De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Sewing-machine. No. 1,336,824; Apr. 13; v. 273; p. 272.

De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Trimming mechanism for sewing-machines. No. 1,336,825; Apr. 13; v. 273; p. 273.

De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Power-stand for sewing-machines. No. 1,347,840; July 27; v. 276; p. 674.

De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Controlling means for power-transmitters. No. 1,347,841; July 27; v. 276; p. 674.

De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Belt-gearing. No. 1,347,842; July 27; v. 276; p. 675.

De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Spool-holder. No. 1,347,843; July 27; v. 276; p. 675.

De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Presser mechanisms for sewing-machines. No. 1,350,301; Aug. 24; v. 277; p. 593.

De Voe, Albert H., Westfield, N. Y., assignor to The Singer Manufacturing Company. Work-arm for sewing-machines. No. 1,355,216; Oct. 12; v. 279; p. 205.

De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Attachment for sewing-machines. No. 1,359,877; Nov. 23; v. 280; p. 674.

De Vol, Thomas E., Belgrade, Nebr. Automatic dump-lock. No. 1,341,499; May 25; v. 274; p. 743.

De Vos, Carel J. J. L., Rotterdam, Netherlands. Boat. No. 1,363,235; Dec. 28; v. 281; p. 584.

De Vries, Herman D., Grand Rapids, Mich. Ornamenting wood. No. 1,339,259; May 4; v. 274; p. 112.

De Vries, Klaas, Utrecht, Netherlands. Safety attachment for bicycles. No. 1,354,896; Oct. 5; v. 279; p. 90.

De Vry Corporation, The. (See Vry, Herman A., assignor.)

De Vry, Herman A., assignor to The De Vry Corporation, Chicago, Ill. Motion-picture machine. No. 1,360,903; Nov. 30; v. 280; p. 943.

Devereaux, Francis A., assignor of one-fourth to F. H. Keyes and one-half to H. Koeneke, International Falls, Minn. Pipe-wrench. No. 1,354,538; Oct. 5; v. 279; p. 18.

Devers, Clyde E., assignor to The McCaskey Register Company, Alliance, Ohio. Measuring-chart. No. 1,357,386; Nov. 2; v. 280; p. 35.

De Ville, Edward J., Dayton, Ohio. Drive-chain. No. 1,358,942; Nov. 16; v. 280; p. 447.

De Waele, René E., Paris, France. Submarine toy. No. 1,328,867; Jan. 27; v. 270; p. 500.

Dewald, Edward, Jr. (See Dewald, Edward, Sr., assignor.)

Dewald, Edward, Sr., assignor of one-half to E. Dewald, Jr., Cincinnati, Ohio. Swivel-plug connector. No. 1,347,577; July 27; v. 276; p. 621.

De Waters, Enos A., Flint, assignor to General Motors Corporation, Detroit, Mich. Lubricating means for valve-operating devices. No. 1,346,116; July 13; v. 276; p. 218.

De Wein, George F., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Liquid rheostat. No. 1,332,167; Feb. 24; v. 271; p. 648.

De Werthern, Oliver, St. Louis, Mo. Tire-carrying device. No. 1,359,676; Nov. 23; v. 280; p. 634.

Dewes, A., Company, The. (See Schieman, Paul W., assignor.)

Dewey, Don A. (See Luckiesh, M., and Dewey.)

Dewey, Edward B., Washington, D. C. Hairpin. No. 1,364,057; Dec. 28; v. 281; p. 742.

Dewey, Ellsworth A., Tampa, Fla. Block-making machine. No. 1,346,640; July 13; v. 276; p. 321.

Dewey, Frank H., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,344,993; June 29; v. 275; p. 907.

Dewey, Glenn L., Mansfield, assignor of one-third to D. W. Rumsey, Mainesburg, Pa. License-tag bracket. No. 1,357,033; Oct. 26; v. 279; p. 647.

Dewey, H. T., & Sons Company. (See Baulig, Herman, assignor.)

Dewey, Haywood G., assignor to F. H. Knapp Company, Westminster, Md. Method of and apparatus for wrapping cans and the like. No. 1,337,693; Apr. 20; v. 273; p. 511.

Dewey, Haywood G., Westminster, assignor to The Fred H. Knapp Company, Baltimore, Md. Can-boxing machine. No. 1,348,549; Aug. 3; v. 277; p. 81.

Dewick, Bernard, and D. B. Caddy, London, assignors to The British Ever Ready Company Limited, Holloway, London, England. Apparatus for playing a game of skill. No. 1,327,464; Jan. 6; v. 270; p. 108.

De Witt, George W. (See Nelson, Frank C., assignor.)

De Witt, Herbert M., Denver, Colo. Hydraulic air-compressor. No. 1,353,897; Sept. 28; v. 278; p. 567.

De Witt-La France Co. (See La France, D. J., and De Witt, assignors.)

De Witt, Lawrence M., Ashtabula, Ohio. Guide and sign post. No. 1,355,036; Oct. 5; v. 279; p. 116.

De Witt, W. J., *et al.* (See Lionne, Ernest, assignor.)

De Witt, William M., Elkhart, Ind. Hayrack. No. 1,355,945; Oct. 19; v. 279; p. 386.

De Witt, William P. (See La France, D. J., and De Witt.)

Dewrance, John, London, England. Multiple-way stop-valve. No. 1,345,751; July 6; v. 276; p. 83.

Dexter, Bayard P. (See Dexter, Fred A. and B. P.)

Dexter Folder Company. (See Christophel, Carl E., assignor.)

Dexter, Fred A. and B. P., Orange, Mass. Facing-tool for dressing valve-seats, &c. No. 1,337,052; Apr. 13; v. 273; p. 316.

Dexter, I. H., Co., Inc. (See Dexter, Irven H., assignor.)

Dexter, Irven H., Pearl River, assignor to I. H. Dexter Co., Inc., New York, N. Y. Flexible coupling. No. 1,359,157; Nov. 16; v. 280; p. 486.

Dexter, Irven H., Pearl River, assignor to I. H. Dexter Co., Inc., New York, N. Y. Flexible coupling. No. 1,363,849; Dec. 28; v. 281; p. 703.

Deyo, Mark R., Peoria, Ill. Culvert. No. 1,361,027; Dec. 7; v. 281; p. 9.

De Young, Dick. (See Woudema, Andrew, assignor.)

De Young, Leonard, Passaic, N. J. Idler for conveyers. No. 1,332,815; Mar. 2; v. 272; p. 122.

Dezendorf, Richard L., Richmond Hill, N. Y. Apparatus for and method of clearing service-pipes. No. 1,328,726; Jan. 20; v. 270; p. 444.

D'Harlingue, Alfred E., St. Louis, Mo. Blown-glass vacuum-brick. No. 1,342,404; June 1; v. 275; p. 154.

Dhé, Paul. (See Ribbe, F., and Dhé.)

Dhé, Paul, Paris, France. Front discharge-chamber of melting-furnaces. No. 1,361,754; Dec. 7; v. 281; p. 155.

D'Humy, Fernand E., Englewood, N. J. Electric-light fixture. No. 1,351,375; Aug. 31; v. 277; p. 867.

D'Humy, Fernand E., Englewood, N. J. Electric-light fixture. No. 1,357,034; Oct. 26; v. 279; p. 647.

D'Humy, Fernand E., Englewood, N. J., assignor to L. L. Strauss, New York, N. Y. Fire-extinguisher. No. 1,329,655; Feb. 3; v. 271; p. 58.

D'Humy, Fernand E., Englewood, N. J., assignor to Ramp Buildings Corporation, New York, N. Y. Storage-building. No. 1,349,664; Aug. 17; v. 277; p. 424.

Diamond Electric Specialties Corp. (See Rosenfeld, Francis M., assignor.)

Diamond, George, Milwaukee, Wis. Paper box. No. 1,332,204; Mar. 2; v. 272; p. 5.

Diamond Grinder Company. (See Smith, John L., assignor.)

Diamond, James E., assignor to The Aluminum Castings Company, Cleveland, Ohio. Internal-combustion engine. No. 1,331,420; Feb. 17; v. 271; p. 488.

Diamond, James E., East Cleveland, assignor to The Aluminum Castings Company, Cleveland, Ohio. Composite piston. No. 1,357,851; Nov. 2; v. 280; p. 124.

Diamond, James K., assignor to Clipper Belt Lacer Company, Grand Rapids, Mich. Belt-fastener-setting machine. No. 1,328,424; Jan. 20; v. 270; p. 387.

Diamond Expansion Bolt Company. (See Hiss, William J., assignor.)

Diamond Match Company, The. (See Donnelly, Joseph C., assignor.)

Diamond Match Company, The. (See Fairburn, William A., assignor.)

Diamond Match Company, The. (See Paridon, Michael, assignor.)

Diamond Power Specialty Company. (See Herman, S. J., and MacKenzie, assignors.)

Digitized by Google

Diamant, Sidney, New York, N. Y. Adenotome. No. 1,339,691; May 11; v. 274; p. 271.
Diamant, Sidney, New York, N. Y. Adenotome. No. 1,339,692; May 11; v. 274; p. 271.
Diamond Electric Specialties Corp. (See Rosenfeld, Francis M., assignor.)
Diamond Iron Works. (See Sprague, Charles B., assignor.)
Diamond, James E., assignor to The Aluminum Castings Company, Cleveland, Ohio. Internal-combustion engine. No. 1,341,227; May 25; v. 274; p. 690.
Diamond, James E., assignor to The Aluminum Castings Company, Cleveland, Ohio. Internal-combustion-motor cylinder. No. 1,347,478; July 20; v. 276; p. 545.
Diamond Match Company, The. (See Cooper, Simon, assignor.)
Diamond Match Company, The. (See Dixon, William H., assignor.)
Diamond Match Company, The. (See Paridon, Michael, assignor.)
Diamond Match Company, The. (See Pfersch, Clarence L., assignor.)
Diamond Match Company, The. (See Wright, Charles F., assignor.)
Diamond Power Specialty Company. (See Beebee, L., and Bowers, assignors.)
Diamond Power Specialty Company. (See Coe, Charles T., assignor.)
Diamond State Fibre Company. (See Bolduc, William H., assignor.)
Diamond State Fibre Company. (See Streijffert, August M. E., assignor.)
Diamond State Fibre Company. (See Taylor, John M., assignor.)
Dianiska, John, Dayton, assignor to The Theodor Kundtz Company, Cleveland, Ohio. Sewing-machine cabinet. No. 1,339,501; May 11; v. 274; p. 234.
Diaphone Signal Company, The. (See Sims, Frederick L. H., assignor.)
Diard, Felix V., assignor of one-half to G. Baltz, Kimswick, Mo. Lubricator. No. 1,331,698; Feb. 24; v. 271; p. 561.
Diaz, Gaspar G., New York, N. Y. Automatic advertising-bench. No. 1,348,852; Aug. 10; v. 277; p. 191.
Dibble, James R. (See Easton, Frank A., assignor.)
Dibblee, Alphonse A. (See Barro, Anthony F., assignor.)
Di Benedetto, Paolo, Springfield, Vt. Lamp-post. No. 1,359,039; Nov. 16; v. 280; p. 464.
Dibert, Loyd C., San Francisco, Calif. Bean-cleaning apparatus. No. 1,356,049; Oct. 19; v. 279; p. 407.
Dibovsky, Victor V., New York, N. Y., assignor to The Type-Release Co., Inc., Wilmington, Del. Machine-gun. No. 1,362,479; Dec. 14; v. 281; p. 344.
Di Carlo, Donato, Philadelphia, Pa. Talking-machine. No. 1,353,324; Sept. 21; v. 278; p. 409.
Di Carlo, Riccardo, Baltimore, Md. Clipper. No. 1,358,423; Nov. 9; v. 280; p. 299.
Di Carlo, Donato, Philadelphia, Pa. Diaphragm for sound-boxes. No. 1,330,060; Feb. 10; v. 271; p. 165.
Di Carlo, Louis, Cleveland, Ohio. Knockdown boat. No. 1,333,248; Mar. 9; v. 272; p. 255.
Dice, Charles W., Danville, Ill. Fishing-tackle. No. 1,362,765; Dec. 21; v. 281; p. 452.
Dice, John A., assignor of one-half to D. H. Parker, Espanola, Ontario, Canada. Folding ironing-board. No. 1,353,729; Sept. 21; v. 278; p. 490.
Dick, Burns, assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Spark-coil. No. 1,361,282; Dec. 7; v. 281; p. 50.
Dick, Joseph, assignor to The Joseph Dick Manufacturing Company, Canton, Ohio. Pipe-door. No. 1,327,877; Jan. 6; v. 270; p. 92.
Dick, Joseph, Manufacturing Company. (See Dick, Joseph, assignor.)
Dick, Joseph C. F., Stockton, Calif. Tread attachment for tractor-wheels. No. 1,347,018; July 20; v. 276; p. 455.
Dick, Ralph H., Marietta, Ohio, and P. W. Wigginton, Rahway, N. J., assignors to The Safe-Cabinet Company, Marietta, Ohio. Door for safes or cabinets. No. 1,329,511; Feb. 3; v. 271; p. 32.
Dick, Ralph H., and C. F. Wolters, assignors to Safe-Cabinet Company, Marietta, Ohio. Heat-resisting safe or cabinet. No. 1,336,347; Apr. 6; v. 273; p. 121.
Dick, Ralph H., and C. F. Wolters, assignors to The Safe-Cabinet Company, Marietta, Ohio. Heat-resisting cabinet. No. 1,342,204; June 1; v. 275; p. 116.
Dick, Ralph H., C. F. Wolters, Marietta, Ohio, and R. B. Sutter, Newark, N. J., assignors to The Safe-Cabinet Company, Marietta, Ohio. Heat-resisting safe or cabinet. No. 1,350,363; Aug. 24; v. 277; p. 605.
Dick Safety Corporation. (See Woodman, Richard N., assignor.)
Dick, William A., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Starting mechanism for automobiles. No. 1,332,032; Feb. 24; v. 271; p. 624.
Dickelman, Lizzie H., Forest, Ohio. Ventilated grain-storehouse. No. 1,328,132; Jan. 13; v. 270; p. 296.
Dickelman, Lizzie H., Forest, Ohio. Grain-storehouse construction. No. 1,336,945; Apr. 13; v. 273; p. 296.
Dickelman, Lizzie H., Forest Ohio. Grain-storage bin. No. 1,339,437; May 11; v. 274; p. 221.
Dickelmann, Lawrence H., and J. Kuchler, Milwaukee, Wis. Pipe-clip and forming same. No. 1,329,268; Jan. 27; v. 270; p. 576.
Dicken, Ralph C., Centralia, Wash. Compression-indicator. No. 1,357,153; Oct. 26; v. 279; p. 671.
Dickers, Harry W., Chicago, Ill. Fountain-pen. No. 1,356,195; Oct. 19; v. 279; p. 437.
Dickerson, Arthur, assignor to Dickerson Engine Company, Salt Lake City, Utah. Port-packing for rotary valves. No. 1,354,539; Oct. 5; v. 279; p. 19.
Dickerson Engine Company. (See Dickerson, Arthur, assignor.)
Dickerson, Joseph C., Lucedale, Miss. Wagon-hound. No. 1,356,974; Oct. 26; v. 279; p. 635.
Dickerson, Malcolm, Belleville, N. J., assignor of one-half to Societe Anonyme des Anciens Etablissements, C. & E. Chapal Freres & Cie., Brooklyn, N. Y. Machine for dyeing fur-skins. No. 1,343,355; June 15; v. 275; p. 458.
Dickerson, Marshal S., Cleveland Ranch, Nev. Gasolene automobile-tank. No. 1,343,812; June 15; v. 275; p. 548.
Dickerson, Michael O., Hayden, Colo. Fencepost. No. 1,355,754; Oct. 12; v. 279; p. 309.
Dickey, Charles T., Elizabeth, assignor to J. J. Voorhees, Jr., Jersey City, N. J. Producing grips for tool-handles. No. 1,330,791; Feb. 17; v. 271; p. 370.
Dickey, Daniel A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Forming composite bodies. No. 1,352,436; Sept. 14; v. 278; p. 174.
Dickey, Daniel A., assignor to Westinghouse Electric & Manufacturing Company, Wilkinsburg, Pa. Apparatus for use in molding propellers. No. 1,358,712; Nov. 16; v. 280; p. 401.
Dickey, Daniel A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Composite-plate-curing machine. No. 1,361,970; Dec. 14; v. 281; p. 245.
Dickey, Daniel A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Moldable reinforcing element and performing same. No. 1,361,971; Dec. 14; v. 281; p. 245.
Dickey, Daniel A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Hub-bushing for molding composite propellers. No. 1,363,723; Dec. 28; v. 281; p. 678.
Dickey, George C. (See Serwe, Philip L., assignor.)
Dickey, Walter S. (See Batliner, Carl, assignor.)
Dickey, Walter S. (See Minter, John E., assignor.)
Dickie, James. (See Jardine, J. C., and Dickie.)
Dickie, James. (See Jardine, Dickie, and Bowness.)
Dickie, James, Summerside, Prince Edward Island, Canada. Sled-pad. No. 1,341,708; June 1; v. 275; p. 18.
Dickinson, E. D., and J. Wilkinson, Schenectady, N. Y., assignors to General Electric Company. Flexible coupling. No. 1,352,251; Sept. 7; v. 278; p. 103.
Dickinson, Edgar D., Schenectady, N. Y., assignor to General Electric Company. Turbine installation for ships. No. 1,328,497; Jan. 20; v. 270; p. 402.
Dickinson, Edgar D., Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 1,347,327; July 20; v. 276; p. 515.
Dickinson, Harry E., San Antonio, Tex. Adjustable split lock-nut or union. No. 1,350,142; Aug. 17; v. 277; p. 516.
Dickinson, Harry S., Moline, Ill., assignor to Moline Plow Company. Mechanical movement. No. 1,354,470; Oct. 5; v. 279; p. 5.
Dickinson, Joseph H., assignor to The Aeolian Company, Larchmont, N. Y. Automatic musical instrument. No. 1,359,040; Nov. 16; v. 280; p. 465.
Dickinson, Joseph W., Cranford, N. J. Pressure-reserve method and mechanism for piano-players. No. 1,344,886; June 22; v. 275; p. 725.
Dickinson, Sanford B., Bath, N. Y. Steel track. No. 1,328,790; Jan. 20; v. 270; p. 456.
Dickinson, Thomas A., Youngstown, Ohio. Self-filling fountain-pen. No. 1,346,184; July 13; v. 276; p. 231.
Dickinson, Warren E., Kansas City, Mo. Well-cleaning device. No. 1,333,390; Mar. 9; v. 272; p. 282.
Dickinson, William, Spokane, Wash. Rocking-horse. No. 1,348,785; Aug. 3; v. 277; p. 126.
Dickinson, William W., Jr., Little Rock, Ark. Setting bricks mechanically in spaced relation as in kilns and the like. No. 1,332,168; Feb. 24; v. 271; p. 649.
Dickinson, William W., Jr., Little Rock, Ark. Method and means for setting brick mechanically in spaced regular relation as in kilns and the like. No. 1,334,892; Mar. 23; v. 272; p. 672.
Dickinson, William W., Jr., Little Rock, Ark. Apparatus for burning brick. No. 1,355,821; Oct. 19; v. 279; p. 362.
Dickinson, William J., Burham, near Rochester, England. Spring-motor. No. 1,362,480; Dec. 14; v. 281; p. 344.
Dickman, Bernard, Oakland, Calif. Hat-holding device. No. 1,357,546; Nov. 2; v. 280; p. 65.
Dickman, Smith V., Shavertown, N. Y. Planetary gearing. No. 1,348,095; July 27; v. 276; p. 725.
Dickson, Benjamin H., and J. E. Fry, Yuma, Colo. Stove. No. 1,343,122; June 8; v. 275; p. 350.
Dickson, George E., Chicago, Ill. Making weatherproof nails. No. 1,342,742; June 8; v. 275; p. 273.

Digitized by Google

Dickson, Horace L., Toronto, Ontario, Canada. Wrench. No. 1,348,632; Aug. 3; v. 277; p. 97.
Dickson, John, Vancouver, Wash. Pulverized-fuel-burning device. No. 1,349,148; Aug. 10; v. 277; p. 250.
Dickson, Mae S., Hubbard Woods, Ill. Can-opener. No. 1,348,484; Aug. 3; v. 277; p. 69.
Dickson, Robert C., Copeland, Wash. Animal-trap. No. 1,331,324; Feb. 17; v. 271; p. 469.
Dictograph Products Corporation. (See Koch, Henry, assignor.)
Dicus, Aaron W., Indianapolis, Ind. Signal. No. 1,339,341; Nov. 16; v. 280; p. 523.
Dicus, Charles M., Mill Spring, N. C. Road-scraper. No. 1,350,991; Aug. 24; v. 277; p. 727.
Diebold, Alfred J., Pittsburgh, Pa. Telephone-receiver holder. No. 1,345,839; July 6; v. 276; p. 100.
Diebold, Fritz, Zurich, Switzerland. Process and apparatus for atomizing liquid substances into very small particles. No. 1,346,811; July 20; v. 276; p. 414.
Diebolt, Lewis T., Logansport, Ind. Lock. No. 1,350,213; Aug. 17; v. 277; p. 530.
Dieckmann, Adolf, Cincinnati, Ohio. Sheet-metal-elbow-forming machine. No. 1,326,916; Jan. 6; v. 270; p. 6.
Dieckmann, Carl F., assignor to Eugene Dietzgen Company, Factory, Chicago, Ill. Compasses. No. 1,343,664; June 15; v. 275; p. 519.
Diederich, Hunt, New York, N. Y. Electric lamp and fan. No. 1,345,752; July 6; v. 276; p. 83.
Diederich, John W., assignor to The Craig Tractor Company, Cleveland, Ohio. Tractor. No. 1,342,427; June 8; v. 275; p. 212.
Diefendorf, Orvis G., Watertown, N. Y. Coffee-filter. No. 1,335,048; Mar. 30; v. 272; p. 761.
Dieguez y Lopez, Juan, and F. Alcañiz y Bascompte, Habana, Cuba. Lip-guard. No. 1,344,179; June 22; v. 275; p. 684.
Diehl, Adam, Springfield, Ohio. Molding-machine. No. 1,342,428; June 8; v. 275; p. 213.
Diehl, Albert C., Pensauken, N. J., assignor to Victor Talking Machine Company. Sound-box for sound-reproducing and sound-recording machines. No. 1,350,595; Aug. 24; v. 277; p. 652.
Diehl, Albert C., Pensauken, N. J., assignor to Victor Talking Machine Company. Sound-box for talking-machines. No. 1,350,596; Aug. 24; v. 277; p. 652.
Diehl, Benjamin J., New York, N. Y. Safety gas-cock. No. 1,335,666; Mar. 30; v. 272; p. 877.
Diehl Manufacturing Company. (See Marx, Gustave C., assignor.)
Diehl Manufacturing Company. (See Zenk, Charles C., assignor.)
Diem, Louis W., Scranton, Pa. Tool. No. 1,357,154; Oct. 26; v. 279; p. 671.
Diemer, Charles P., Sapulpa, Okla. Indicating device for vehicles. No. 1,329,043; Jan. 27; v. 270; p. 533.
Diepenbrock, Joseph F., Chicago, Ill. System of shop control. No. 1,340,216; May 18; v. 274; p. 427.
Dierker, Henry, Glenfield, Pa. Pressed-steel metal bedlock. No. 1,344,583; June 22; v. 275; p. 765.
Dies, Charles A., Chicago, Ill. Slicing-machine. No. 1,331,958; Feb. 24; v. 271; p. 610.
Dies, Charles A., assignor of one-half to J. V. Larson, Chicago, Ill. Lathe-dog and the like. No. 1,333,707; Mar 16; v. 272; p. 403.
Dies, Charles A., Chicago, Ill. Slicing-machine. No. 1,344,118; June 22; v. 275; p. 673.
Dies, Charles A., Chicago, Ill. Slicing-machine. No. 1,352,658; Sept. 14; v. 278; p. 218.
Dies, Charles A., Chicago, Ill. Hairpin. No. 1,358,139; Nov. 9; v. 280; p. 241.
Diesbach, Fritz G., administrator. (See Krauth, Albert.)
Dieser, Julius N., assignor of one-half to A. L. Silverstein, San Francisco, Calif. Vulcanizing-pad. No. 1,353,383; Sept. 21; v. 278; p. 421.
Diescher, Samuel E., Wilkinsburg, assignor to D. S. Wolcott, trustee, Sewickley, Pa. Water-back for furnaces. No. 1,364,042; Dec. 28; v. 281; p. 739.
Dieter Nut Company. (See Schrader, John R., assignor.)
Dieter, William, Brooklyn, N. Y. Bulkhead for torpedoes. No. 1,335,561; Mar. 30; v. 272; p. 857.
Dieter, William, Brooklyn, N. Y. Brake mechanism for motor-cars. No. 1,347,736; July 27; v. 276; p. 653.
Dieter, William, Brooklyn, N. Y. Lubricating means for the propelling mechanism of automobile torpedoes. No. 1,358,064; Nov. 9; v. 280; p. 227.
Dieter, William, assignor to E. W. Bliss Company, Brooklyn, N. Y. Gyroscope-bearing. No. 1,332,205; Mar. 2; v. 272; p. 5.
Dietrich, Charles F., Chicago, Ill. Pocket-scissors. No. 1,354,807; Oct. 5; v. 279; p. 72.
Dietrich, Richard R., Baltimore, Md. Internal-explosive engine. No. 1,340,651; May 18; v. 274; p. 509.
Dietrich, Edward C., and C. W. Bliss, South Bend, Ind. Extensible trolley-pole. No. 1,355,946; Oct. 19; v. 279; p. 387.
Dietrich, Edward C., and C. W. Bliss, South Bend, Ind. Trolley-harp fastener. No. 1,356,606; Oct. 26; v. 279; p. 563.
Dietrichs, Charles. Little Ferry, N. J. Apparatus for building concrete structures. No. 1,361,315; Dec. 7; v. 281; p. 66.
Dietsche, Adolph, Forest Hills, assignor to American Lithographic Company, New York, N. Y. Article-display retainer. No. 1,333,102; Mar. 9; v. 272; p. 228.
Dietsche, Otto, Berlin-Lichtenberg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Separating thorium from the other metals of the rare earths. No. 1,335,157; Mar. 30; v. 272; p. 788.
Dietz, Carl, Ehmen, near Fallersleben, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Manufacture of table-salt. No. 1,362,087; Dec. 14; v. 281; p. 268.
Dietz, Emil, Indianapolis, Ind. Truck. No. 1,349,500; Aug. 10; v. 277; p. 319.
Dietz, Emily K. (See McCorkindale, William P., assignor.)
Dietz, Ernest. (See Price, W. B., and Dietz.)
Dietz, John F., Loma, N. D. Sled. No. 1,335,096; Mar. 30; v. 272; p. 771.
Dietz, John T., Cleveland, Ohio. Cutting-tool. No. 1,345,320; June 29; v. 275; p. 971.
Dietz Machine Works. (See Derringer, Stephen, assignor.)
Dietz, Paul A., Fort Worth, Tex. Post structure. No. 1,360,623; Nov. 30; v. 280; p. 889.
Dietz, Paul A., Fort Worth, Tex. Skeleton structure. No. 1,362,238; Dec. 14; v. 281; p. 298.
Dietz, R. E., Company. (See Everett, Ernest C., assignor.)
Dietze, Carl H., Jr., Newark, N. J. Candle-holder. No. 1,350,710; Aug. 24; v. 277; p. 674.
Dietze, Emil, Brooklyn, N. Y. Box-strap-applying mechanism. No. 1,348,270; Aug. 3; v. 277; p. 28.
Dietze, Emil, Brooklyn, N. Y. Box-strap-fastening means. No. 1,348,271; Aug. 3; v. 277; p. 28.
Dietze, Emil, assignor to American Casting and Manufacturing Corporation, Brooklyn, N. Y. Key-lock box-strap fastener. No. 1,348,485; Aug. 3; v. 277; p. 69.
Dietzel, William, Merrick, N. Y. Electroplating apparatus. No. 1,349,549; Aug. 10; v. 277; p. 329.
Dietzel, William, Merrick, N. Y. Combination utensil. No. 1,353,222; Sept. 21; v. 278; p. 389.
Dietzgen, Eugene, Company, Factory. (See Dieckmann, Carl F., assignor.)
Diez, Conrad J. (See Meushaw, T. H., and Diez.)
Diffenbaugh, Harry G., Salt Lake City, Utah. Air-pressure liquid-transfer device. No. 1,328,138; Jan. 13; v. 270; p. 296.
Di Giacomo, Generoso, *et al.* (See Weigel, Philip A., assignor.)
Di Girolama, Giuseppe. (See Parrino, Joseph, assignor.)
Di Grazia, Archie, and R. Biagini, Charleroi, Pa. Self-propelling aerial bomb. No. 1,327,810; Jan. 13; v. 270; p. 285.
Dikran-Aram, New York, N. Y. Double draw-bar system. No. 1,360,706; Nov. 30; v. 280; p. 905.
Dilg, Charles H. J. (See Pillsbury, Edwin S., assignor.)
Dilg, Charles H. J., New York, N. Y. Motor-fan. No. 1,337,644; Apr. 20; v. 273; p. 502.
Dilg, Charles H. J., New York, N. Y. Washing-machine. No. 1,346,595; July 13; v. 276; p. 312.
Dilg, Charles H. J., New York, N. Y. Knife-controlling mechanism for cutlery-renovating machines. No. 1,346,804; July 13; v. 276; p. 354.
Diller, Charles F., Lancaster, Pa. Soil and seed innoculation. No. 1,354,808; Oct. 5; v. 279; p. 73.
Dillet, William H., Ralston, Okla. Tire-retaining ring for clencher-rims. No. 1,330,061; Feb. 10; v. 271; p. 165.
Dillingham, Charles H., administrator. (See Dillingham, William C.)
Dillingham, Elwood A., Marysville, Calif. Farm-gate. No. 1,362,929; Dec. 21; v. 281; p. 483.
Dillingham, Frederick A., assignor to The Troy Carriage Sunshade Company, Troy, Ohio. Weather-strip. No. 1,337,394; Apr. 20; v. 273; p. 455.
Dillingham, William C., deceased, Bairdstown, Calif.; C. H. Dillingham administrator. Waiter and sales check. No. 1,356,050; Oct. 19; v. 279; p. 407.
Dillingham, William C., deceased, Los Angeles, Calif.; C. H. Dillingham, administrator. Multiple punching attachment for platen printing-presses. No. 1,362,088; Dec. 14; v. 281; p. 268.
Dillmann, Edward, *et al.*, trustees. (See Bobroff, Bornett L., assignor.)
Dillmeier, Josephine M., New York, N. Y. Casserole-holder. No. 1,355,593; Oct. 12; v. 279; p. 278.
Dillon, Alexander E., Haileyville, Okla. Repair apparatus for locomotives. No. 1,341,302; May 25; v. 274, p. 704.
Dillon, Edward P., assignor to Westinghouse Electric and Manufacturing Company, Wilkinsburg, Pa. Automatically-controlled vapor-converter substation. No. 1,358,713; Nov. 16; v. 280; p. 401.
Dillon, Harry E., Philadelphia, Pa. Concrete pipe construction. No. 1,351,895; Sept. 7; v. 278; p. 36.
Dillon, James F., Crown City, Ohio, assignor to N. K. Bowman, North Lawrence, Ohio. Cable-splice. No. 1,343,251; June 15; v. 275; p. 438.
Dillon, James L., Leavenworth, Kans., assignor of one-half to F. L. Wendler, St. Louis, Mo. Wrench. No. 1,353,567; Sept. 21; v. 278; p. 457.
Dillon, James L., Leavenworth, Kans., assignor of one-half to F. L. Wendler, St. Louis, Mo. Pipe-vise. No. 1,353,568; Sept. 21; v. 278; p. 458.

Digitized by Google

Dillon, James L., Leavenworth, Kans., assignor of one-half to F. L. Wendler, St. Louis, Mo. Lifting-sling. No. 1,353,569; Sept. 21; v. 278; p. 458.
Dillon, Robert L., assignor of fifty-one per cent. to F. M. Davis, Timpson, Tex. Colter. No. 1,351,376; Aug. 31; v. 277; p. 866.
Dills, Henry S., Garrett, Ind. Fish-bait. No. 1,352,054; Sept. 7; v. 278; p. 66.
Dilly, Anderson, Brooklyn, N. Y. Signaling device. No. 1,354,030; Sept. 28; v. 278; p. 594.
Di Lorenzo, Antonino, New York, N. Y. Automobile-fender. No. 1,333,797; Mar. 16; v. 272; p. 416.
Dils, Robert C. (See Cowley, J., and Dils.)
Dilts, John B., Paul, Idaho. Subterranean camera. No. 1,331,627; Feb. 24; v. 271; p. 548.
Dilweg, Lloyd W., Milwaukee, Wis. Automobile-bumper. No. 1,340,867; May 18; v. 274; p. 549.
Dilworth-Porter & Company. (See Morrison, Andrew, assignor.)
Di Maggio, Vincenzo, New York, N. Y. Shoe-support. No. 1,346,008; July 6; v. 276; p. 134.
Di Milla, P. (See Paesano, Vincenzo, assignor.)
Dimmock, Charles, Toronto, Ontario, Canada. Coin-controlled apparatus. No. 1,353,223; Sept. 21; v. 278; p. 390.
Dinesen, Laurits, assignor to Perfection Manufacturing Company, Minneapolis, Minn. Milking apparatus. No. 1,353,570; Sept. 21; v. 278; p. 458.
Dingman, George, Flint, Mich. Hand-clamp and drill outfit. No. 1,337,205; Apr. 20; v. 273; p. 419.
Dingman, Henry, West Point, Iowa. Automatic steering device. No. 1,359,878; Nov. 23; v. 280; p. 674.
Dings, Myron, Milwaukee, Wis. Magnetic separator. No. 1,349,501; Aug. 10; v. 277; p. 319.
Dings, Ralph E., and L. Schuster, New York, N. Y. Waterproof varnish. No. 1,326,917; Jan. 6; v. 270; p. 7.
Dingwall, Jane E. (See Montgomery, B. H., and Dingwall, assignors.)
Dingwall, John B. B. (See Montgomery, B. H., and Dingwall.)
Dingwall, Nelson W. (See Holland, Joseph A., assignor.)
Dingwall, Nelson W., Mount Vernon, N. Y. Scraping-tool and the like. No. 1,341,047; May 25; v. 274; p. 655.
Dinhofer, Julius, New York, N. Y. Gem-setting. No. 1,332,206; Mar. 2; v. 272; p. 6.
Dinkins, Rosetta, Fresno, Calif. Device for fruit-preserving jars. No. 1,357,155; Oct. 26; v. 279; p. 671.
Dinsmoor, John L., assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y. Snap-seal. No. 1,363,724; Dec. 28; v. 281; p. 678.
Dinsmoor, Winfield L., Oakland, Calif. Valve-grinder. No. 1,340,756; May 18; v. 274; p. 529.
Dinsmoor, Winfield L., San Francisco, Calif. Card-file. No. 1,340,757; May 18; v. 274; p. 529.
Dinsmore, George F., Boston, Mass. Motor-fuel for internal-combustion engines. No. 1,331,054; Feb. 17; v. 271; p. 421.
Dinwiddie, John M., Cedar Rapids, Iowa. Paper-clip. No. 1,334,233; Mar. 16; v. 272; p. 500.
Dinwiddie, William W., West Orange, N. J. Production of molded articles. No. 1,353,152; Sept. 21; v. 278; p. 376.
Diodato, Frank A., North Collins, assignor to Dio-Kads Corporation, Buffalo, N. Y. Automatic or safety train-stop mechanism. No. 1,345,753; July 6; v. 276; p. 83.
Dio-Kads Corporation. (See Diodato, Frank A., assignor.)
Dion, Amédée. (See Dion, Bruno and A.)
Dion, Bruno and A., Ste. Therese de Blainville, Quebec, Canada. Band-cutter and feeder. No. 1,345,588; July 6; v. 276; p. 51.
Dirienzo, John A. (See Dirienzo, Joseph M. and J. A.)
Dirienzo, Joseph M. and J. A., Madison, Wis. Inner tube. No. 1,339,948; May 11; v. 274; p. 319.
Disbrow, Clarkson A., New Rochelle, assignor to The Rail Joint Company, New York, N. Y. Rail-joint. No. 1,332,207; Mar. 2; v. 272; p. 6.
Discher, Grant F., Milwaukee, Wis. Bumper-bracket. No. 1,342,374; June 1; v. 275; p. 148.
Di Salvatore, Anthony, Scotia, N. Y. Ladder and safety-lock. No. 1,352,055; Sept. 7; v. 278; p. 66.
Di Salvo, Joseph, assignor to Giant Auto Bumper Co., Inc., Chicago, Ill. Bumper-bar and support therefor. No. 1,363,850; Dec. 28; v. 281; p. 703.
Disbrow, Adelbert A., Stevenson, Wash. Writer's aiding device. No. 1,353,730; Sept. 21; v. 278; p. 491.
Diserens, Paul, Cincinnati, Ohio, assignor to Worthington Pump and Machinery Corporation. Condenser system and vacuum-pump. No. 1,344,994; June 29; v. 275; p. 908.
Disheroon, John E., Mena, Ark. Vehicle-seat. No. 1,330,808; Feb. 10; v. 271; p. 211.
Disinger, Ernest, assignor to Willard Storage Battery Company, Cleveland, Ohio. Machine for casting strips to storage-battery grids. No. 1,344,294; June 22; v. 275; p. 707.
Disinger, Ernest, assignor to Willard Storage Battery Company, Cleveland, Ohio. Casting-machine. No. 1,354,732; Oct. 5; v. 279; p. 56.
Disinger, Paul M., Syracuse, N. Y. China-burnishing machine. No. 1,332,385; Apr. 13; v. 273; p. 246.
Diskin, Moses B., New York, N. Y. Article-register. No. 1,339,744; May 11; v. 274; p. 280.
Diskin, Moses B., New York, N. Y. Box-making machine. No. 1,343,906; June 22; v. 275; p. 632.
Diskin, Moses B., New York, N. Y. Box-mandrel. No. 1,343,907; June 22; v. 275; p. 632.
Diskin, Moses B., New York, N. Y. Resilient wheel. No. 1,353,731; Sept. 21; v. 278; p. 491.
Diskin, Moses B., New York, N. Y. Sheet-applying machine. No. 1,355,390; Oct. 12; v. 279; p. 239.
Dismore, Paul R. (See Bogart, John C., assignor.)
Dispot, Arthur, Paris, France. Coupling for coupling pumps to electric motors. No. 1,349,329; Aug. 10; v. 277; p. 286.
Diss, Albert B., Newark, N. J., assignor to The Bassick Company, Bridgeport, Conn. Caster. No. 1,329,585; Feb. 3; v. 271; p. 45.
Dissel, Theodore A., Medford, assignor to Cameron Appliance Company, Everett, Mass. Suspension-ring for electric wires and the like. No. 1,331,248; Feb. 17; v. 271; p. 456.
Dissette, John W. (See Ranney, L., Dissette, and Tyrrell.)
Disston, Henry, & Sons. (See Arnold, John P., assignor.)
Disston, Henry, & Sons. (See Jenkins, David W., assignor.)
Distad, Lars J., *et al.* (See Burbey, George A., assignor.)
Distefano, Quirino V., Waterbury, Conn. Airship. No. 1,328,369; Jan. 20; v. 270; p. 377.
Dister, Joseph, Hamilton, Ohio, assignor to American Can Company, New York, N. Y. Can. No. 1,348,550; Aug. 3; v. 277; p. 31.
Dister, Joseph, Hamilton, Ohio, assignor to American Can Company, New York, N. Y. Transparent walled container and making same. No. 1,356,344; Oct. 19; v. 279; p. 466.
Ditchfield, Frank, Montreal, Quebec, Canada. Tire. No. 1,344,025; June 22; v. 275; p. 655.
Ditson, Jesse, Littleton, Colo., assignor, by mesne assignments, to Ingersoll-Rand Company. Fluid-operated vise. No. 1,349,330; Aug. 10; v. 277; p. 286.
Dittmar, Elmer C., Williamsport, Pa. Apparatus for coating and finishing flooring. No. 1,339,106; May 4; v. 274; p. 86.
Dittmar, Elmer C., Williamsport, Pa. Apparatus for coating and finishing flooring. No. 1,339,107; May 4; v. 274; p. 86.
Dittrich, August C., Chicago, Ill. Time control for sound-reproducing mechanism. No. 1,337,759; Apr. 20; v. 273; p. 524.
Dittrich, August C., Chicago, Ill. Time control for sound-reproducing mechanism. No. 1,337,760; Apr. 20; v. 273; p. 524.
Diuk, Phillip, St. Paul, Minn. Shoe-heel. No. 1,339,438; May 11; v. 274; p. 222.
Diver, Bertice M., Indianapolis, Ind. Automobile-body construction. No. 1,339,325; May 4; v. 274; p. 124.
Diver, Bertice M., Indianapolis, Ind. Ventilating system for motor-vehicles. No. 1,361,567; Dec. 7; v. 281; p. 119.
Diver, Daniel, Calgary, Alberta, Canada. Machine for the separation of gold, silver, and platinum from sand. No. 1,329,118; Jan. 27; v. 270; p. 547.
Divine, Robert E., assignor to The Twitchell Process Company, Cincinnati, Ohio. Recovering sulfonic acids from mineral-oil sludge. No. 1,330,624; Feb. 10; v. 271; p. 270.
Divo, John J., Brooklyn, N. Y. Automatic switch for main and auxiliary circuits. No. 1,354,897; Oct. 5; v. 279; p. 90.
Dix, Julian H. (See Fully, Fred G., assignor.)
Dixie Fruit Products Corporation. (See Colbert, Clarence F., assignor.)
Dixieland Motor Truck Company. (See Armstrong, Ira, assignor.)
Dixon, Amos F., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Selecting system. No. 1,328,986; Jan. 27; v. 270; p. 523.
Dixon, Amos F., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Selecting system. No. 1,362,605; Dec. 21; v. 281; p. 420.
Dixon, Amos F., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Counting apparatus. No. 1,356,607; Oct. 26; v. 279; p. 564.
Dixon, Amos F., and F. N. Reeves, Newark, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,340,940; May 25; v. 274; p. 634.
Dixon, David J., Tacoma, Wash. Cutter-head. No. 1,338,819; May 4; v. 274; p. 32.
Dixon, Galen J., Bishop, Calif. Fish screen or guard. No. 1,346,881; July 20; v. 276; p. 427.
Dixon, George L., Alhambra, Calif. Air-heater. No. 1,359,234; Nov. 16; v. 280; p. 501.
Dixon, H. L., Company. (See Milner, E. E., and Lytle, assignors.)
Dixon, Henry C., Tulsa, Okla. Tailor's order-blank. No. 1,339,693; May 11; v. 274; p. 271.
Dixon, John. (See Jobe, J. S., and Dixon.)
Dixon, John, Gary, Ind. Window-ventilator. No. 1,350,792; Aug. 24; v. 277; p. 690.
Dixon, John, Monaca, and J. M. Shaffer, New Brighton, assignors to United States Sanitary Manufacturing Company, Pittsburgh, Pa. Apparatus for coating castings. No. 1,348,351; Aug. 3; v. 277; p. 44.

Digitized by Google

Dixon, Lewis M., New York, N. Y. Process and apparatus for inking ribbons. No. 1,364,043; Dec. 28; v. 281; p. 740.

Dixon, Robert E., St. Louis, Mo. Combination davenport and bed. No. 1,354,540; Oct. 5; v. 279; p. 19.

Dixon, Robert T., Lexington, Va. Snow-brake bracket. No. 1,330,309; Feb. 10; v. 271; p. 211.

Dixon, Russell A. (See Mason and Dixon.)

Dixon, Samuel S., Detroit, Mich., assignor to Kalamazoo Loose Leaf Binder Co., Kalamazoo, Mich. Sheet-feeding means for accounting and typewriting machines. No. 1,348,984; Aug. 10; v. 277; p. 217.

Dixon, Thomas B., New York, N. Y. Telegraphy. No. 1,339,549; May 11; v. 274; p. 243.

Dixon, Thomas B., New York, N. Y. Telegraphy. No. 1,339,550; May 11; v. 274; p. 243.

Dixon, Thomas B., New York, N. Y. Telegraphy. No. 1,339,551; May 11; v. 274; p. 244.

Dixon, William H., London, England, assignor to The Diamond Match Company, Chicago, Ill. Match-ignition composition. No. 1,341,012; May 25; v. 274; p. 649.

Djuics, Alexander, New York, N. Y. Nursing-tool. No. 1,328,498; Jan. 20; v. 270; p. 402.

Dlugniewski, Jozef, Erie, Pa. Combination-weapon. No. 1,330,062; Feb. 10; v. 271; p. 165.

Dmitriff, Vasily N., New York, N. Y., assignor of forty per cent. to K. Khavin, Seattle, Wash. Tree-sawing apparatus. No. 1,337,395; Apr. 20; v. 278; p. 455.

Dmitrieff, Vasily N., New York, N. Y., assignor of forty per cent. to K. Khavin, Seattle, Wash. Combined pendulous table and chairs. No. 1,328,727; Jan. 20; v. 270; p. 444.

Doak, John H., Los Angeles, Calif. Roasting and boiling device. No. 1,337,122; Apr. 13; v. 273; p. 329.

Doan, Howard E., Joliet, Ill. Door opening and closing mechanism. No. 1,347,844; July 27; v. 276; p. 675.

Doane Automatic Machine Company. (See Doane, John A., assignor.)

Doane, Charles F., Eureka, Calif. Making Emmenthal or Swiss cheese. No. 1,334,693; Mar. 23; v. 272; p. 633.

Doane, John A., assignor to Doane Automatic Machine Company, Springfield, Mass. Metal-working apparatus. No. 1,332,248; Mar. 2; v. 272; p. 14.

Doane, Lewis B., New London, Conn., assignor to Electric Boat Company. Submarine vessel. No. 1,363,851; Dec. 28; v. 281; p. 703.

Doane, Samuel E., New York, N. Y. Artificial bait. No. 1,362,562; Dec. 14; v. 281; p. 361.

Doane, Samuel E., R. P. Burrows, and A. F. Sinclair, Cleveland, Ohio, assignors to General Electric Company. Illuminating device for projecting purposes. (Reissue.) No. 14,805; Feb. 17; v. 271; p. 499.

Dobbins, Douglas, assignor of one-half to J. D. De Prez, Shelbyville, Ind. Airplane. No. 1,336,946; Apr. 13; v. 273; p. 296.

Dobbins, Douglas, assignor of one-half to J. D. De Prez, Shelbyville, Ind. Airplane. No. 1,336,947; Apr. 13; v. 273; p. 296.

Dobbins, Douglas, assignor of one-half to J. D. De Prez, Shelbyville, Ind. Rotary compressed-air motor. No. 1,347,500; July 27; v. 276; p. 606.

Dobbins, George R., assignor of one-tenth to W. F. Schanbacher, Los Angeles, and one-twentieth to L. Kill, and one-twentieth to J. H. Gosling, Santa Monica, and twelve and one-half per cent. to R. W. Biddlecom, Fresno, Calif. Adjustable frame for automobile-tops. No. 1,333,798; Mar. 16; v. 272; p. 416.

Dobbins, Henry T. (See Hartman, John W., assignor.)

Dobbins, James C., Rock Hill, S. C. Brick-machine. No. 1,352,056; Sept. 7; v. 278; p. 66.

Dobbins, James C., Rock Hill, S. C. Plastic coating material. No. 1,355,131; Oct. 12; v. 279; p. 188.

Dobbins, Laura M., Orange, N. J. Bedclothes-support. No. 1,351,557; Aug. 31; v. 277; p. 902.

Dobbins, Michael G., Philadelphia, assignor of one-third to F. H. Shaw, Norristown, and one-third to A. G. Craig, Philadelphia, Pa. Soap-bubble device. No. 1,340,758; May 18; v. 274; p. 529.

Dobbins, Michael G., Philadelphia, Pa. Soap-bubble blower. No. 1,359,342; Nov. 16; v. 280; p. 523.

Dobbins, Michael G., Philadelphia, assignor of one-half to F. H. Shaw, Norristown, Pa. Wrench. No. 1,362,481; Dec. 14; v. 281; p. 344.

Doble, Abner, assignor, by mesne assignments, to Doble-Detroit Steam Motors Co., Detroit, Mich. Apparatus for burning fuel. No. 1,340,383; May 18; v. 274; p. 458.

Doble, Abner, assignor to Doble-Detroit Steam Motors Co., Detroit, Mich. Apparatus for burning fuel. No. 1,349,876; Aug. 17; v. 277; p. 465.

Doble, Abner, assignor, by mesne assignments, to Doble-Detroit Steam Motors Co., Detroit, Mich. Liquid-fuel-ignition mechanism. No. 1,349,877; Aug. 17; v. 277; p. 465.

Doble, Abner, assignor, by mesne assignments, to Doble-Detroit Steam Motors Co., Detroit, Mich. Fuel-burner. No. 1,351,944; Sept. 7; v. 278; p. 46.

Doble, Abner, assignor, by mesne assignments, to Doble-Detroit Steam Motors Co., Detroit, Mich. Brake mechanism for automobiles. No. 1,360,505; Nov. 30; v. 280; p. 866.

Doble, Abner, Detroit, Mich. Method and apparatus for draining combustion-chambers. No. 1,360,506; Nov. 30; v. 280; p. 866.

Doble-Detroit Steam Motors Company. (See Doble, Abner, assignor.)

Doble, Frank C., Winchester, Mass. High-tension telephone system. No. 1,350,922; Aug. 24; v. 277; p. 714.

Doble, John A. (See Doble, William A. and J. A.)

Doble, John A., assignor to Doble Laboratories, San Francisco, Calif. Fuel-burner control. No. 1,332,615; Mar. 2; v. 272; p. 84.

Doble, John A., assignor to Doble Laboratories, San Francisco, Calif. Fuel-burner. No. 1,332,616; Mar. 2; v. 272; p. 85.

Doble, John A., assignor to Doble Laboratories, San Francisco, Calif. Electrically-driven fuel-burner system. No. 1,359,041; Nov. 16; v. 280; p. 465.

Doble Laboratories. (See Doble, John A., assignor.)

Doble Laboratories. (See Doble, William A., assignor.)

Doble Laboratories. (See Doble, William A. and J. A., assignors.)

Doble, William A., assignor to Doble Laboratories, San Francisco, Calif. Power-propelled vehicle. No. 1,354,898; Oct. 5; v. 279; p. 90.

Doble, William A., assignor to The Pelton Water Wheel Company, San Francisco, Calif. Gear-pump. No. 1,359,235; Nov. 16; v. 280; p. 501.

Doble, William A. and J. A., assignors to Doble Laboratories, San Francisco, Calif. Fuel-control system for boilers. No. 1,359,042; Nov. 16; v. 280; p. 465.

Dobmeier, Fred, assignor to One Hand Auto Top Company, Inc., Buffalo, N. Y. Windshield-supporting device for vehicles. No. 1,361,837; Dec. 14; v. 281; p. 218.

Dobmeier, George, Buffalo, N. Y. Safety-bung. No. 1,353,732; Sept. 21; v. 278; p. 491.

Dobrick, August C., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill. Priming-cup. No. 1,332,944; Mar. 9; v. 272; p. 198.

Dobrick, August C., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill. Valve-regulating means. No. 1,339,811; May 11; v. 274; p. 295.

Dobrovits, Steve, Chicago, Ill. Hatpin-protector. No. 1,357,035; Oct. 26; v. 279; p. 647.

Dobson, Daniel J., Greenlee Station, N. C. Machine for ballasting railway-tracks. No. 1,338,681; May 4; v. 274; p. 6.

Dobson, John E., and S. M. Crookshank, Knoxville, Tenn. Device for packing silage. No. 1,328,728; Jan. 20; v. 270; p. 444.

Dobson, John S., assignor to The Niantic Sheet Music Company, Buffalo, N. Y. Sheet-music. No. 1,354,176; Sept. 28; v. 278; p. 624.

Dobson, John V., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Brush-holder. No. 1,363,644; Dec. 28; v. 281; p. 662.

Dobson, William, Blackburn, England. Warp-thread and like selecting and separating mechanism. No. 1,353,947; Sept. 28; v. 278; p. 577.

Dobson, William A., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,335,956; Apr. 6; v. 273; p. 48.

Dobyne, Stephen A., assignor to Champion Shoe Machinery Company, St. Louis, Mo. Clutch and brake mechanism. No. 1,352,585; Sept. 14; v. 278; p. 204.

Dobyne, Stephen A., assignor to Champion Shoe Machinery Company, St. Louis, Mo. Bearing-supporting column. No. 1,358,301; Nov. 9; v. 280; p. 273.

Dobyne, Stephen A., assignor to Champion Shoe Machinery Company, St. Louis, Mo. Fastener-inserting machine. No. 1,363,180; Dec. 21; v. 281; p. 532.

Dochnal, Frank, St. Louis, Mo. Manufacturing of hollow tile and the like. No. 1,348,932; Aug. 10; v. 277; p. 207.

Dochtermann, George T., Passaic, N. J. Spark-plug. No. 1,342,205; June 1; v. 275; p. 117.

Dodd, Charles H., Boston, assignor of one-half to G. H. Gibby, Winthrop, Mass. Tide or backwater gate. No. 1,334,354; Mar. 23; v. 272; p. 570.

Dodd, James E., Peoria, Ill. Garden-tool. No. 1,348,096; July 27; v. 276; p. 725.

Dodd, Martin S., administrator. (See Williams, Lacey Y.)

Dodd, Orville H., Charlestown, Ind. Seed-planter. No. 1,333,391; Mar. 9; v. 272; p. 282.

Dodds, Ethan I. (See Flannery, J. R., and Dodds.)

Dodds, Ethan I. (See Stafford, B. E. D., and Dodds.)

Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,349,822; Aug. 17; v. 277; p. 454.

Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Lighting means. No. 1,352,252; Sept. 7; v. 278; p. 104.

Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,354,600; Oct. 5; v. 279; p. 31.

Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,354,601; Oct. 5; v. 279; p. 31.

Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,354,602; Oct. 5; v. 279; p. 31.

Digitized by Google

Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Lighting system. No. 1,359,581; Nov. 23; v. 280; p. 615.
Dodds, Redus D., Houston, Tex. Device for taking samples from wells. No. 1,335,880; Apr. 6; v. 273; p. 33.
Dodds, Thomas, Thessalon, Ontario, Canada. Invalid-bed. No. 1,332,546; Mar. 2; v. 272; p. 72.
Dodge Brothers. (See Duncan, James N., assignor.))
Dodge, Barnett F., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Composition of matter. No. 1,357,852; Nov. 2; v. 280; p. 124.
Dodge Brothers. (See Macdermid, J. H., and Wells, assignors.)
Dodge, Charles B. and J. T., Morse Bluff, Nebr. Crank-shaft connection for engines. No. 1,341,709; June 1; v. 275; p. 19.
Dodge, Charles C., assignor to The Park Drop Forge Company, Cleveland, Ohio. Counterbalanced crank-shaft. No. 1,351,417; Aug. 31; v. 277; p. 874.
Dodge, Charlie B. (See Dodge, Lewis, and C. B.)
Dodge, Elbert S., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,330,063; Feb. 10; v. 271; p. 165.
Dodge, Harold A., Essex Fells, and W. J. Leatherow, assignors to Howe Baumann Balloon Co., Newark, N. J. Means for inflating balloons and the like. No. 1,329,512; Feb. 3; v. 271; p. 32.
Dodge, Harvey E., assignor to C. H. Ingersoll, South Orange, N. J. Apparatus for constructing monolithic buildings. No. 1,332,617; Mar. 2; v. 272; p. 85.
Dodge, Homer L., Iowa City, Iowa. Rheostat. No. 1,337,826; Apr. 20; v. 273; p. 536.
Dodge, Horace L., Buffalo, N. Y. Printing-machine. No. 1,344,489; June 22; v. 275; p. 746.
Dodge, Horace L., Richmond, Va. Barber's comb. No. 1,359,343; Nov. 16; v. 280; p. 523.
Dodge, James T. (See Dodge, C. B. and J. T.)
Dodge, Joseph D. (See Smith, Harry J., assignor.)
Dodge, Lewis, and C. B., Morse Bluff, Nebr. Pneumatic foot. No. 1,352,942; Sept. 14; v. 278; p. 275.
Dodge, Lewis, and C. B., Morse Bluff, Nebr. Pneumatic foot. No. 1,352,943; Sept. 14; v. 278; p. 275.
Dodge, Lyman E., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Automatic train-control system. No. 1,361,694; Dec. 7; v. 281; p. 144.
Dodge Manufacturing Company. (See Mix, Melville W., assignor.)
Dodge, Philip T., New York, N. Y., assignor to International Paper Company. Core-cap. No. 1,358,531; Nov. 9; v. 280; p. 320.
Dodge, William J., San Diego, Calif. Gas turbine-engine. No. 1,353,733; Sept. 21; v. 278; p. 491.
Dodge, William L., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,337,761; Apr. 20; v. 273; p. 524.
Dodge, William L., Dover, N. H. Envelop. No. 1,360,624; Nov. 30; v. 280; p. 890.
Dodgson, Frank L., Rochester, N. Y., assignor to General Railway Signal Company, Gates, N. Y. Railway signaling system. No. 1,352,793; Sept. 14; v. 278; p. 246.
Dods, Harry B. (See Strukell, Antony, assignor.)
Dodson, Alcada F., Milan, Mo. Calculating-machine. No. 1,336,686; Apr. 13; v. 273; p. 246.
Dodson, John C., Stone Mountain, assignor of one-half to O. L. Dodson, Lithonia, Ga. Window shade and curtain hanger. No. 1,337,827; Apr. 20; v. 273; p. 537.
Dodson, Orbert L. (See Dodson, John C., assignor.)
Doehler Die Casting Company. (See Rau, Herman, assignor.)
Doe, Joseph S., Burnham, Ill. Metallic foot-mat. No. 1,343,356; June 15; v. 275; p. 458.
Doe, Loring B., San Francisco, Calif. Trailer. No. 1,331,421; Feb. 17; v. 271; p. 488.
Doe, Loring B., assignor of one-half to E. G. Lewis, San Francisco, Calif. Draft device. No. 1,336,735; Apr. 13; v. 273; p. 255.
Doehler Die Casting Company. (See Edlund, Conrad, assignor.)
Doehler Die Casting Company. (See Gruss, A. G., and Geyer, assignors.)
Doehler Die Casting Company. (See Kralund, John, assignor.)
Doehler Die-Casting Company. (See Pack, C., and Doehler, assignors.)
Doehler Die Casting Company. (See Pack, Charles, assignor.)
Doehler, Herman H. (See Pack, C., and Doehler.)
Doehrer, Bernhardt, Bridgeport, Conn. Automatic tire-pump. No. 1,335,562; Mar. 30; v. 272; p. 857.
Doelling, Louis K., New Rochelle, assignor to De La Vergne Machine Company, New York, N. Y. Oil-engine. No. 1,328,499; Jan. 20; v. 270; p. 402.
Doellinger, Herman G., assignor to Halligan Candy Company, Davenport, Iowa. Striping-machine. No. 1,331,325; Feb. 17; v. 271; p. 470.
Doellinger, Louis F., Waterloo, Iowa. Wringer attachment. No. 1,335,957; Apr. 6; v. 273; p. 48.
Doelckner, Max A., Louisville, Ky. Toy flying-machine. No. 1,328,134; Jan. 13; v. 270; p. 296.
Doerflinger, William F., Arrochar, N. Y. Lacquer enamel. No. 1,345,354; July 6; v. 276; p. 6.
Doering, Charles, Jr. (See Doering, Henry, C., Jr., and M.)
Doering, Henry, C., Jr., and M., Chicago, Ill. Liquid cooling and dispensing apparatus. No. 1,337,206; Apr. 20; v. 273; p. 419.
Doering, Max. (See Doering, Henry, C., Jr., and M.)
Doering, Ruben, Crofton, Nebr. Twine-oiler. No. 1,335,667; Mar. 30; v. 272; p. 877.
Doerner, Henry A., Meriden, Conn. Recovery of molybdenum from its ores. No. 1,329,380; Feb. 3; v. 271; p. 7.
Doerr, Frank L., Topeka, Kans. Riveting-sleeve. No. 1,363,576; Dec. 28; v. 281; p. 650.
Doerr, Harry E., assignor to Scullin Steel Co., St. Louis, Mo. Side-frame arrangement. No. 1,343,618; June 15; v. 275; p. 509.
Doerr, Harry E., assignor to Scullin Steel Co., St. Louis, Mo. Draft mechanism. No. 1,353,224; Sept. 21; v. 278; p. 390.
Doerr, Harry E., assignor to Scullin Steel Company, St. Louis, Mo. Pedestal-truck side frame. No. 1,356,700; Oct. 26; v. 279; p. 582.
Doerr, Harry E., assignor to Scullin Steel Company, St. Louis, Mo. Truck side frame. No. 1,358,424; Nov. 9; v. 280; p. 299.
Doerr, Harry E., assignor to Scullin Steel Company, St. Louis, Mo. Pedestal truck side frame. No. 1,358,425; Nov. 9; v. 280; p. 300.
Doerschuk, Victor C., Massena, N. Y., assignor to Aluminum Company of America, Pittsburgh, Pa. Ring-furnace. No. 1,330,175; Feb. 10; v. 271; p. 187.
Doherty, Edward M., Los Angeles, and J. H. Jeffries, Inglewood, Calif. Mechanical movement. No. 1,338,427; Apr. 27; v. 278; p. 726.
Doherty, Henry L. (See Laird, Wilbur G., assignor.)
Doherty, Henry L., and Company. (See Buell, W. C., Jr., and Griswold, assignors.)
Doherty, Henry L., New York, N. Y. Purification of gas. No. 1,360,734; Nov. 30; v. 280; p. 911.
Doherty, Robert E., Schenectady, N. Y., assignor to General Electric Company. Starting synchronous motors. No. 1,331,055; Feb. 17; v. 271; p. 421.
Dohm, August J. (See Dohm, Robert O. and A. J.)
Dohm, Robert O., Dane, Wis. Hog-feeder. No. 1,359,158; Nov. 16; v. 280; p. 486.
Dohm, Robert O., Dane, Wis. Automatic-supply hog-feeder. No. 1,341,887; June 1; v. 275; p. 54.
Dohm, Robert O. and A. J., Dane, Wis. Tank-heater. No. 1,359,159; Nov. 16; v. 280; p. 486.
Dohner, Burt E., and A. J. Huff, Dayton, Ohio. Roller-bearing. No. 1,340,941; May 25; v. 274; p. 634.
Dohner, John H., Dayton, Ohio. Coupling for tubing. No. 1,337,547; Apr. 20; v. 273; p. 484.
Dohrmann, Frank C., assignor to C. A. Carnes, New York, N. Y. Phonograph-motor. No. 1,358,426; Nov. 9; v. 280; p. 300.
Dohrmann, Henry, *et al.* (See Sztanyi, William, assignor.)
Doig, James, Brooklyn, N. Y. Box-nailing machine. No. 1,335,568; Mar. 30; v. 272; p. 857.
Dolan, Arthur F., *et al.* (See Keenan, Ellsworth E., assignor.)
Dolan, George E., and S. Miller; said Dolan assignor of one-half of his right to W. T. Lloyd, San Francisco, Calif. Electric permutation-lock. No. 1,328,729; Jan. 20; v. 270; p. 444.
Dolan, John, Dayton, Ohio. Hoisting mechanism. No. 1,335,782; Apr. 6; v. 273; p. 15.
Dolan, John, Hastings, Nebr. Rail-fastening. No. 1,358,832; Nov. 16; v. 280; p. 425.
Dolan, John P., assignor of two-thirds to J. M. Motto, Hartford, Conn. Clamp. No. 1,349,331; Aug. 10; v. 277; p. 286.
Doland, Elmer E., Boonton, N. J. Gas-engine attachment. No. 1,334,355; Mar. 23; v. 272; p. 570.
Dolbear, Clinton E., San Francisco, Calif. Purifying magnesium compounds. No. 1,348,933; Aug. 10; v. 277; p. 207.
Dolbear, Samuel H., San Francisco, Calif., assignor to Minerals Separation North American Corporation. Process and apparatus for concentrating ores or other materials. No. 1,343,313; June 15; v. 275; p. 449.
Dolbey, Harry S., Providence, R. I. Safety-pin. No. 1,354,094; Sept. 28; v. 278; p. 608.
Dolecek, Joseph, Rahway, N. J. Truss. No. 1,336,513; Apr. 13; v. 273; p. 212.
Dolen, Asa, Tarrytown, N. Y. Portable leaf and waste furnace. No. 1,338,125; Apr. 27; v. 278; p. 668.
Dolensky, Eugen, Frankfort-on-the-Main, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Generator for producing water-gas. No. 1,360,089; Dec. 14; v. 281; p. 269.
Doll, Robert F., Bartonsville, Pa. Whip-socket. No. 1,336,948; Apr. 13; v. 273; p. 296.
Dollinger, Lewis L., Rochester, N. Y. Air-filter. No. 1,359,879; Nov. 23; v. 280; p. 674.
Dolomite Products Company, The. (See Sheard and Wetherbee, assignors.)
Dolman, Edgar H., Yarmouth township, Ontario, Canada. Record-holder for phonograph-cabinets. No. 1,358,833; Nov. 16; v. 280; p. 425.

Digitized by Google

Dolsby, Frank V., Dellvale, Kans. Grain-drill coupling. No. 1,361,695; Dec. 7; v. 281; p. 144.
Dolton, Lloyd A., assignor to Weller Manufacturing Company, Chicago, Ill. Method of and apparatus for backfilling. No. 1,359,582; Nov. 23; v. 280; p. 616.
Dom, Alexander, assignor to The Samuel C. Tatum Company, Cincinnati, Ohio. Drilling-machine. No. 1,347,214; July 20; v. 276; p. 492.
Doman, Albert E., Elbridge, assignor to Dyneto Electric Company, Syracuse, N. Y. Thermo-electric switch. No. 1,347,686; July 27; v. 276; p. 643.
Doman, Herman C., Oshkosh, Wis., assignor, by mesne assignments, to F. Novotny and J. Kastohryz. Driving mechanism for washing-machines. No. 1,340,329; May 18; v. 274; p. 448.
Doman, Lewis B., De Witt, assignor to The Amphion Piano Player Company, Syracuse, N. Y. Motor-mounting for bellows-pumps. No. 1,337,645; Apr. 20; v. 273; p. 502.
Dombkowski, Kazimer, Stanhope, N. J. Safeguard-lamp for automobiles. No. 1,326,918; Jan. 6; v. 270; p. 7.
Dombkowski, Kazimer, Stanhope, N. J. Sanitary cuspidor or refuse-receptacle. No. 1,326,919; Jan. 6; v. 270; p. 7.
Dombrowski, John. (See Niewiarowski, Peter, assignor.)
Domenico, Deiana, San Francisco, Calif. Windmill. No. 1,361,696; Dec. 7; v. 281; p. 144.
Domestic Electrical Company, The. (See Spielman, Milton H., assignor.)
Domestic Engineering Company, The. (See Kettering, Charles F., assignor.)
Domestic Sewing Machine Co. (See Riddell, George H., assignor.)
Dominguez, Juan I., Buenos Aires, Argentina. Safety device for cattle at railway-crossings. No. 1,345,145; June 29; v. 275; p. 937.
Domingues, Juan I., Buenos Aires, Argentina. Cattle-guard. No. 1,345,146; June 29; v. 275; p. 937.
Dominguez, Juan I., Buenos Aires, Argentina. Apparatus for catching flies. No. 1,359,796; Nov. 23; v. 280; p. 658.
Dominguez, Zacarias, Los Angeles, Calif. Garden sidehill-plow. No. 1,350,923; Aug. 24; v. 277; p. 714.
Dominicus, Cornelis, Baarn, assignor to P. G. Tideman, Apeldoorn, Netherlands. Change-speed gear. No. 1,353,461; Sept. 21; v. 278; p. 436.
Dominski, Mike. (See Wliczynski, Jósef, assignor.)
Donada, Benito J., Refugio, assignor of one-third to J. R. Dougherty, Beeville, and one-third to Benjamin Shelton, Refugio, Tex. Priming device for internal-combustion engines. No. 1,363,093; Dec. 21; v. 281; p. 516.
Donadio, Prospero, Brooklyn, N. Y. Revolver-stock. No. 1,341,843; June 1; v. 275; p. 46.
Donahue, Daniel J. (See Sabins, William A., assignor.)
Donahue, John J., Centerville, Mass. Wrench. No. 1,332,436; Mar. 2; v. 272; p. 51.
Donald, William H., Oak Ridges, assignor of one-half to S. G. Forst, Toronto, Ontario, Canada. Classifier. No. 1,330,242; Feb. 10; v. 271; p. 199.
Donald, William H., assignor of one-half to Kenneth C. Little, Toronto, Ontario, Canada. Meat-slicer. No. 1,362,855; Dec. 21; v. 281; p. 470.
Donaldson, Augustus F., assignor to The Bunting Brass & Bronze Company, Toledo, Ohio. Babbitting-machine. No. 1,332,975; Mar. 9; v. 272; p. 205.
Donaldson, Augustus F., assignor to The Bunting Brass & Bronze Company, Toledo, Ohio. Broach. No. 1,336,621; Apr. 13; v. 273; p. 233.
Donaldson, Augustus F., assignor to The Bunting & Bronze Company, Toledo, Ohio. Micrometer. No. 1,346,804; July 13; v. 276; p. 255.
Donaldson, Augustus F., assignor to Bunting Brass & Bronze Company, Toledo, Ohio. Outside broach. No. 1,361,568; Dec. 7; v. 281; p. 119.
Donaldson, Harry R. (See Donaldson, Robert M. and H. R.)
Donaldson, John, Minneapolis, Minn. Glare-shield. No. 1,331,422; Feb. 17; v. 271; p. 488.
Donaldson, Orren M., Oakland, Calif. Sleeping-car. No. 1,361,233; Dec. 7; v. 281; p. 50.
Donaldson, Raymond F., *et al.* (See Barnes, John S., assignor.)
Donaldson, Robert M. and H. R., Claysville, Pa. Carbureter-adjuster. No. 1,328,946; Jan. 27; v. 270; p. 515.
Donaldson, Roy G., Crestline, Ohio. Underfeed stoker. No. 1,355,739; Oct. 12; v. 279; p. 306.
Donaldson, William H. L., St. Paul, Minn. Air-washer. No. 1,349,608; Aug. 17; v. 277; p. 414.
Donaldson, William M., Portland, Oreg. Scaffold. No. 1,328,500; Jan. 20; v. 270; p. 402.
Donat, Joseph H., assignor to Gillis & Geoghegan, New York, N. Y. Hoisting mechanism. No. 1,333,064; Mar. 9; v. 272; p. 221.
Donavon, Joseph P., Lompoc, Calif. Insulating material. No. 1,345,666; July 6; v. 276; p. 66.
Dondo, Mathurin M., New York, N. Y. Marionette. No. 1,350,711; Aug. 24; v. 277; p. 674.
Donegan, David H., Saw Pit, Colo. Ore-concentrator. No. 1,352,882; Sept. 14; v. 278; p. 264.
Donelson, Walter E., Conway, Mass. Bushing-remover. No. 1,338,495; Apr. 27; v. 273; p. 783.
Doner, Hugh H., New York, N. Y. Signal and guide light. No. 1,328,185; Jan. 13; v. 270; p. 296.
Doner, Ralph D. Urbana, Ill. Colored design and producing same. No. 1,354,471; Oct. 5; v. 279; p. 5.
Doney, Roy N., Auburn, N. Y. Aeroplane speed-boat. No. 1,333,799; Mar. 16; v. 272; p. 420.
Donisthorpe, Frank W., Barnes, England. Color cinematography. No. 1,350,143; Aug. 17; v. 277; p. 516.
Donle, Harold P., assignor to The Connecticut Telephone & Electric Company, Meriden, Conn. Variable inductance. No. 1,332,463; Mar. 2; v. 272; p. 55.
Donley, Robert W., Philadelphia, Pa. Mop and wringer therefor. No. 1,329,961; Feb. 3; v. 271; p. 115.
Donnellan, James S., Salt Lake City, Utah. Jaw-closer. No. 1,358,625; Nov. 9; v. 280; p. 339.
Donnelly, John, Newark, N. J. Window-screen. No. 1,344,758; June 29; v. 275; p. 864.
Donnelly, Joseph C., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Mechanism for ejecting boxes from drying-conveyers. No. 1,357,387; Nov. 2; v. 280; p. 36.
Donnelly, Joseph C., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Veneer feeding and handling machine. No. 1,360,275; Nov. 30; v. 280; p. 821.
Donnelly, William T., Brooklyn, N. Y. Marine transportation vessel. No. 1,335,278; Mar. 30; v. 272; p. 804.
Donner, Carl H., Summit, N. J. Machine for grinding helical blades. No. 1,362,239; Dec. 14; v. 281; p. 298.
Donner, Philip C., Summit, N. J. Machine for grinding helical blades. No. 1,330,981; Feb. 17; v. 271; p. 407.
Donner, Stephen. (See Nordenberg, S., and Donner.)
Donoghue, Hugh, Munhall, Pa. Apparatus and method for making concrete elements. No. 1,358,225; Sept. 21; v. 278; p. 390.
Donohue, James M., Amsterdam, N. Y. Milk-bottle holder. No. 1,335,369; Mar. 30; v. 272; p. 821.
Donovan, Grover C., *et al.* (See Trapp, Charles L., assignor.)
Donovan, James P., Quincy, Mass. Handshield for riveters. No. 1,351,028; Aug. 31; v. 277; p. 797.
Donovan, Jerome J., Oakland, Calif. Combination bath-spray. No. 1,328,650; Jan. 20; v. 270; p. 430.
Donovan, John J., Oakland, Calif. Desk construction and arrangement. No. 1,357,547; Nov. 2; v. 280; p. 65.
Donovan, Leo R., Norwood, N. Y. Storm-window attachment for locomotive-cabs. No. 1,345,147; June 29; v. 275; p. 937.
Donovan, Michael L., Omaha, Nebr. Lubricator. No. 1,329,229; Jan. 27; v. 270; p. 568.
Dooley, Francis J., Boston, Mass. Acid-charging system for digesters. No. 1,338,496; Apr. 27; v. 273; p. 788.
Dooley, Harry L., Rock Island, assignor to Deere & Company, Moline, Ill. Planter. No. 1,328,730; Jan. 20; v. 270; p. 444.
Dooley, Joseph R., Mobile, Ala. Railway-tie. No. 1,343,813; June 15; v. 275; p. 549.
Dooley, Joseph R., Mobile, Ala. Crosstie. No. 1,343,814; June 15; v. 275; p. 549.
Doolittle, Chester M., Kingston, N. Y. Ax. No. 1,354,384; Sept. 28; v. 278; p. 666.
Doolittle, James W., Stamford, Conn. Force-feed oil-cup. No. 1,359,583; Nov. 23; v. 280; p. 616.
Doolittle, Orson W., Glenside, Pa. Lubricator. No. 1,348,551; Aug. 3; v. 277; p. 81.
Doolittle, Sherwood G., New Haven, Conn. Tire-chain tool. No. 1,360,199; Nov. 23; v. 280; p. 737.
Doonar, Louis, Bend, Oreg. Wrench. No. 1,344,265; June 22; v. 275; p. 701.
Doran, Daniel A., assignor to M. I. Doran, Yonkers, N. Y. Mail-box and other device. No. 1,349,413; Aug. 10; v. 277; p. 302.
Doran, Frank J., and O. H. Kirchner, Hoboken, N. J. Automobile-signal. No. 1,348,097; July 27; v. 276; p. 725.
Doran, James A., and J. G., Providence, R. I. Separable button. No. 1,337,889; Apr. 20; v. 273; p. 549.
Doran, John H., Schenectady, N. Y., assignor to General Electric Company. Extraction and mixed-pressure turbine. No. 1,349,878; Aug. 17; v. 277; p. 466.
Doran, John H., assignor to General Electric Company, Schenectady, N. Y. Dash-pot. No. 1,352,359; Sept. 7; v. 278; p. 124.
Doran, John H., Schenectady, N. Y., assignor to General Electric Company. Dash-pot. No. 1,355,217; Oct. 12; v. 279; p. 205.
Doran, John H., Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid-turbine-driven set. No. 1,362,401; Dec. 14; v. 281; p. 329.
Doran, Joseph G. (See Doran, James A., and J. G., assignors.)
Doran, Mary I. (See Doran, Daniel A., assignor.)
Doran, Robert L., Chicago, Ill. Heating plant. No. 1,338,361; Apr. 27; v. 273; p. 708.
Dorau, John P., North Fond du Lac, Wis. Driving mechanism for washing-machines. No. 1,334,021; Mar. 16; v. 272; p. 462.
Dorau, John P., North Fond du Lac, Wis. Hub-jack. No. 1,349,502; Aug. 10; v. 277; p. 320.
Dorchek, Frank, Colorado Springs, Colo. Groceryman's box. No. 1,348,552; Aug. 3; v. 277; p. 82.
Dorey, William A., Newark, Ohio, assignor to Holophane Glass Company, Inc., New York, N. Y. Illuminating appliance. No. 1,359,493; Nov. 23; v. 280; p. 598.

Digitized by Google

Dorffel, George, Oakland, Calif. Worm-drive. No. 1,336,286; Apr. 6; v. 273; p. 110.
Dorffel, George, Oakland, Calif. Submarine vessel. No. 1,336,287; Apr. 6; v. 273; p. 110.
Dorffel, George, West Seattle, Wash. Lifeboat. No. 1,351,627; Aug. 31; v. 277; p. 916.
Dorgan, John J., and M. J. Sullivan, Holyoke, Mass. Duplex envelop. No. 1,334,138; Mar. 16; v. 272; p. 484.
Dorgeloh, George H., Bloomfield, N. J., assignor to General Electric Company. Electrical resistance. No. 1,360,904; Nov. 30; v. 280; p. 943.
Dorion, Wilfrid, Charlesbourg, Quebec, Canada. Means to change the speed of driving-pulleys. No. 1,353,153; Sept. 21; v. 278; p. 376.
Dorl, Walter P., Detroit, Mich. Door-controlling apparatus. No. 1,338,073; Apr. 27; v. 273; p. 653.
Dorman, Alfred, assignor to E. D. Jones & Sons Company, Pittsfield, Mass. Bandless rolls for beating-engines and like paper-making machines. No. 1,362,606; Dec. 21; v. 281; p. 421.
Dorman, John H., New York, N. Y. Jack. No. 1,338,682; May 4; v. 274; p. 6.
Dorn, Henry C., and H. A. Luedke, assignors to D & L Mfg. Co., Milwaukee, Wis. Bottle-receptacle. No. 1,334,083; Mar. 16; v. 272; p. 473.
Dornbrook, Fred L., Milwaukee, Wis., assignor, by mesne assignments, to The Vulcan Soot Cleaner Company. Boiler soot-blower. No. 1,337,828; Apr. 20; v. 273; p. 537.
Dorneth, Julius, assignor to Typograph G. m. b. H., Berlin, Germany. Matrix setting and distributing machine. No. 1,350,793; Aug. 24; v. 277; p. 690.
Dorneth, Julius, assignor to Typograph G. m. b. H., Berlin, Germany. Mold of line-casting machines. No. 1,363,577; Dec. 28; v. 281; p. 650.
Dorr Company, The. (See Deane, Willard A., assignor.)
Dorr Company, The. (See Peck, Charles L., assignor.)
Dorr, John V., New York, N. Y. Thickener. No. 1,356,608; Oct. 26; v. 279; p. 564.
Dorrell, Harry, Peoria, Ill. Violin peg. No. 1,328,824; Jan. 27; v. 270; p. 491.
Dorris Motor Co. (See Colburn, Webster, assignor.)
Dorsay, Spencer A., St. Catharines, Ontario, Canada. Screw-bolt pliers. No. 1,333,475; Mar. 9; v. 272; p. 298.
Dorsch, Frank A., Waumatosa, Wis. Sealed-top container. No. 1,359,970; Nov. 23; v. 280; p. 693.
Dorsey, Arthur A., Lawrence, Kans. Vulcanizer. No. 1,335,783; Apr. 6; v. 273; p. 16.
Dorsey, David J., Baton Rouge, La. Shade and curtain hanger. No. 1,328,136; Jan. 13; v. 270; p. 297.
Dorsey, David J., Baton Rouge, La. Shade and curtain hanger. No. 1,330,243; Feb. 10; v. 271; p. 199.
Dorsey, Farnum F., assignor to North East Electric Company, Rochester, N. Y. Electric connection. No. 1,334,084; Mar. 16; v. 272; p. 473.
Dorsey, John W., Winnepeg, Manitoba, Canada. Method and apparatus for electric lighting and starting vapor conductors. No. 1,333,608; Mar. 16; v. 272; p. 383.
Dorsey, Philip H., Algiers, La. Cushion-wheel. No. 1,344,337; June 22; v. 275; p. 716.
Dorsk, Frank L., Baltimore, Md., assignor to Maryland Toy Manufacturing Company, Inc. Toy. No. 1,342,945; June 8; v. 275; p. 314.
Dorsk, Frank L., assignor to Maryland Toy Manufacturing Company, Inc., Baltimore, Md. Toy. (Reissue.) No. 14,995; Nov. 30; v. 280; p. 962.
Dorthen, Otto, Stillwater, Minn. Scraping-machine. No. 1,337,890; Apr. 20; v. 273; p. 549.
D'Orville, Theodore L. R., Dayton, Ohio. Electrically-controlled combustion system. No. 1,334,440; Mar. 23; v. 272; p. 586.
Dosch, Charles R. (See Dosch, Peter and C. R.)
Dosch, Peter and C. R., Stratford, Conn. Lubricator. No. 1,332,717; Mar. 2; v. 272; p. 104.
Dosenbach, Benjamin H., deceased. Butte, Mont.: E. M. Dosenbach, executrix, assignor to E. M. Dosenbach. Ore concentration. No. 1,350,364; Aug. 24; v. 277; p. 606.
Dosenbach, Benjamin H., deceased; E. M. Dosenbach, executrix. Butte, Mont. Ore-concentrating apparatus. No. 1,354,031; Sept. 28; v. 278; p. 594.
Dosenbach, Edna M., executrix. (See Dosenbach, Benjamin H.)
Doss, Oscar J. (See Fleming, Charles R., assignor.)
Dossert, John J. (See Hastings, H. P., and Dossert.)
Dostal, John R., assignor to H. Scarborough, Milwaukee, Wis. Fruits and vegetable pulping machine. No. 1,343,439; June 15; v. 275; p. 474.
Dottl, Joseph, Madison, Wis. Support. No. 1,335,881; Apr. 6; v. 273; p. 33.
Dottl, Joseph, and H. G. Hart, Madison, Wis. Support. No. 1,341,113; May 25; v. 274; p. 668.
Doty, Walter G., assignor to The Wagner Engineering Company, Dayton, Ohio. Making machine elements. No. 1,348,158; Aug. 3; v. 277; p. 5.
Doty, Edwin A., Albany, N. Y. Nut-lock. No. 1,361,838; Dec. 14; v. 281; p. 218.
Dotzer, Hugo, and S. G. Barnard, Seattle, Wash. Device for removing wheels and the like from shafts. No. 1,361,316; Dec. 7; v. 281; p. 67.
Doubet, Sylvester, Peoria, Ill. Car-coupling mechanism. No. 1,355,822; Oct. 19; v. 279; p. 363.
Double-Drive Truck Company, The. (See Keck, Robert, assignor.)
Double, Edward, and B. N. Youngken, Los Angeles, Calif. Casing-elevator. No. 1,358,943; Nov. 16; v. 280; p. 447.
Doucette, William, Revere, Mass. Drinking-fountain. No. 1,336,401; Apr. 6; v. 273; p. 131.
Douchamp, Henry J., Smethport, Pa., assignor to Smethport Glass Company. Takedown for machine-drawn cylinders. No. 1,359,236; Nov. 16; v. 280; p. 501.
Doud, Arthur N., Winthrop, N. Y. Dumping-wagon. No. 1,328,137; Jan. 13; v. 270; p. 297.
Dougan, Kennedy, Minneapolis, Minn. Projectile. No. 1,327,655; Jan. 13; v. 270; p. 206.
Dougan, Kennedy, Minneapolis, Minn. Projectile. No. 1,341,844; June 1; v. 275; p. 46.
Dougan, Kennedy, Minneapolis, Minn. Wheat-steamer. No. 1,345,840; July 6; v. 276; p. 100.
Dougan, Kennedy, Minneapolis, Minn. Submarine gun. No. 1,349,414; Aug. 10; v. 277; p. 302.
Dougherty, Edward J., St. Louis, Mo. Agricultural implement. No. 1,331,808; Feb. 24; v. 271; p. 582.
Dougherty, James R., *et al.* (See Donada, Benito J., assignor.)
Dougherty, John M., and H. C. Tabler, St. Louis, Mo. Safety device for relief-valves. No. 1,342,667; June 8; v. 275; p. 258.
Dougherty, John M., and H. C. Tabler, St. Louis, Mo. Radiator-shield. No. 1,361,372; Dec. 7; v. 281; p. 78.
Dougherty, Robert, New York, N. Y., and J. F. Kirby, Somerville, N. J. Oil-heater. No. 1,336,208; Apr. 6; v. 273; p. 95.
Doughtie, John E., *et al.* (See Krickel, Louis H., assignor.)
Doughty, Clarence D., Connerville, Okla. Wrench. No. 1,355,455; Oct. 12; v. 279; p. 251.
Doughty, Edgar S., Red Wing, Minn. Amusement apparatus. No. 1,339,502; May 11; v. 274; p. 234.
Doughty, George E. and J. W., Brooklyn, N. Y. Mechanism for cleaning glass windshields or analogous surfaces. No. 1,359,797; Nov. 23; v. 280; p. 658.
Doughty, Henry J., Providence, R. I., assignor to Doughty Tire Company, Portland, Me. Forming tires and mechanism for practising the same. No. 1,337,207; Apr. 20; v. 273; p. 419.
Doughty, Henry J., Providence, R. I., assignor to Doughty Tire Company, Portland, Me. Method of and apparatus for making tires. No. 1,356,132; Oct. 19; v. 279; p. 424.
Doughty, Herman W., Binghamton, N. Y., assignor, by mesne assignments, to The Gamewell Fire Alarm Telegraph Company, Newton Upper Falls, Mass. Signal-recorder. No. 1,345,355; July 6; v. 276; p. 6.
Doughty, John W. (See Doughty, George E. and J. W.)
Doughty Tire Company. (See Doughty, Henry J., assignor.)
Douglas, Beverly, Baltimore, Md. Surgical appliance. No. 1,356,519; Oct. 26; v. 279; p. 547.
Douglas, George, Sparta, Ill. Water-closet floor connection. No. 1,358,714; Nov. 16; v. 280; p. 401.
Douglas, Harry A., Bronson, Mich. Gun. No. 1,337,444; Apr. 20; v. 273; p. 464.
Douglas, Harry A., Bronson, Mich. Electrical conductor. No. 1,339,694; May 11; v. 274; p. 271.
Douglas, Harry A., Bronson, Mich. Circuit-continuing device. No. 1,347,737; July 27; v. 276; p. 654.
Douglas, Harry A., Bronson, Mich. Current-carrying plug. No. 1,347,738; July 27; v. 276; p. 654.
Douglas, Harry A., Bronson, Mich. Circuit-continuing device. No. 1,348,394; Aug. 3; v. 277; p. 52.
Douglas, Harry A., Bronson, Mich. Circuit-continuing device. No. 1,348,395; Aug. 3; v. 277; p. 52.
Douglas, Harry A., assignor to Douglas & Rudd Mfg. Co., Bronson, Mich. Reflecting-lamp. No. 1,339,695; May 11; v. 274; p. 271.
Douglas, Harry A., Bronson, Mich. Reflecting-lamp. No. 1,357,036; Oct. 26; v. 279; p. 648.
Douglas, Harry A., Bronson, Mich. Lamp. No. 1,358,065; Nov. 9; v. 280; p. 227.
Douglas, John, Company, The. (See Hohmeister, Arthur, assignor.)
Douglas, John, Company, The. (See McNeil, John, assignor.)
Douglas, Louis M. (See Parsons, C. A., and Douglas.)
Douglas, Louis M. (See Parsons, C. A., Cook, and Douglas.)
Douglas, Norman, Syracuse, N. Y. Column-form, shore, and scaffold clamp. No. 1,360,507; Nov. 30; v. 280; p. 866.
Douglas & Rudd Mfg. Co. (See Douglas, Harry A., assignor.)
Douglas, Theodore, Scarboro, assignor to Duplex Engine Governor Company, Inc., Brooklyn, N. Y. Transmission mechanism. No. 1,334,486; Mar. 23; v. 272; p. 595.
Douglas, Theodore, Scarboro, N. Y., assignor to The Duplex Engine-Governor Company, Inc. Governor drive mechanism. No. 1,338,362; Apr. 27; v. 273; p. 708.

Digitized by Google

Douglas, William W., and S. L. Bailey, Bristol, England. Sight-feed lubricator. No. 1,346,942; July 20; v. 276; p. 440.

Douglass, Gibson L., Duluth, Minn. Device for unloading cargo from ships. No. 1,333,065; Mar. 9; v. 272; p. 221.

Douglass, Harry B., Detroit, Mich. Gage. No. 1,339,384; May 11; v. 274; p. 211.

Douglass, Ira C., assignor to The Pfaudler Company, Rochester, N. Y. Tank. No. 1,343,169; June 8; v. 275; p. 359.

Douglass, James H., Norfield, Miss. Resilient tire. No. 1,332,816; Mar. 2; v. 272; p. 128.

Douglass, Napoleon B., Berkeley, Calif. Folding bed. No. 1,344,995; June 29; v. 275; p. 908.

Douglass, Napoleon B., Berkeley, Calif. Folding bed. No. 1,349,946; Aug. 17; v. 277; p. 478.

Doujak, Maria, New York, N. Y. Life-saver automobile attachment. No. 1,346,486; July 13; v. 276; p. 290.

Doujak, Maria, New York, N. Y. Dish-washing machine. No. 1,356,911; Oct. 26; v. 279; p. 623.

Douledes, Christ, Schenectady, N. Y. Condiment-holder. No. 1,339,173; May 4; v. 274; p. 97.

Doust, James C., Toronto, Ontario, Canada. Mousetrap. No. 1,342,255; June 1; v. 275; p. 126.

Douthit, Archie, Kansas City, Mo. Shaving-cabinet. No. 1,360,376; Nov. 30; v. 280; p. 840.

Dovas, Nicholas A., New York, N. Y. Lid-supporter. No. 1,342,325; June 1; v. 275; p. 139.

Dove, Alice B. (See Greenwood, Oliver P., assignor.)

Dove, Edward J., London, England. Means for effecting temporary repairs to broken axles of motor-cars. No. 1,358,532; Nov. 9; v. 280; p. 320.

Dove, Joseph W. (See Conner, G. F., and Dove.)

Dove, Walter T., U. S. Army. Artillery-truck. No. 1,350,644; Aug. 24; v. 277; p. 661.

Dovel, Darley B., Pickerington, Ohio. Exhibiting or sign-display apparatus. No. 1,353,734; Sept. 21; v. 278; p. 491.

Dovel, James P., Birmingham, Ala. Twyer and cooling-box. No. 1,354,032; Sept. 28; v. 278; p. 594.

Dovener, William N., Washington, D. C. Change-counter. No. 1,338,683; May 4; v. 274; p. 7.

Dover, George W., Cranston, R. I. Lathe tool. No. 1,328,947; Jan. 27; v. 270; p. 516.

Dover, George W., Cranston, R. I. Setting for jewelry. No. 1,328,948; Jan. 27; v. 270; p. 516.

Dover, George W., Cranston, R. I. Setting for jewelry. No. 1,328,949; Jan. 27; v. 270; p. 516.

Dover, George W., Incorporated. (See Peterson, Erick B., assignor.)

Dover, George W., Cranston, R. I. Semispherical ball-bearing structure. No. 1,346,400; July 13; v. 276; p. 273.

Dover, George W., Cranston, R. I. Setting for jewelry. No. 1,353,822; Sept. 28; v. 278; p. 552.

Dover, George W., Cranston, R. I. Long-bit-tool holder. No. 1,356,609; Oct. 26; v. 279; p. 564.

Dover, Horace W., Northampton, England. Hand-wheel. No. 1,331,326; Feb. 17; v. 271; p. 470.

Dover, Horace W., Northampton, England. Hand-wheel. No. 1,331,327; Feb. 17; v. 271; p. 470.

Dover Manufacturing Company, The. (See Earle, Robert W., assignor.)

Doviken, Charles, Brooklyn, N. Y. Rudder-position indicator. No. 1,344,622; June 29; v. 275; p. 837.

Dow, Alva M., Braintree, Mass. Washing-machine. No. 1,362,240; Dec. 14; v. 281; p. 299.

Dow Chemical Company, The. (See Barstow, Edwin O., assignor.)

Dow Chemical Company, The. (See Collings, W. R., and Gann, assignors.)

Dow Chemical Company, The. (See Dow, H. H., and Barstow, assignors.)

Dow Chemical Company, The. (See Dow, H. H., and Strosaker, assignor.)

Dow Chemical Company, The. (See Dow, Herbert H., assignor.)

Dow Chemical Company, The. (See Jones, Coulter W., assignor.)

Dow Chemical Company, The. (See Smith, A. W., and Veazey, assignors.)

Dow Chemical Company, The. (See Veazey, William R., assignor.)

Dow, Floyd, assignor of one-half to L. D. Edminster, Wyanet, Ill. Pipe structure. No. 1,350,073; Aug. 17; v. 277; p. 503.

Dow, Floyd, assignor of one-half to L. D. Edminster, Wyanet, Ill. Pipe-coupling. No. 1,352,118; Sept. 7; v. 278; p. 78.

Dow, Fred T., Bangor, Me. Drying apparatus. No. 1,347,478; July 20; v. 276; p. 544.

Dow, Herbert H., assignor to The Dow Chemical Company, Midland, Mich. Recovering bromin. No. 1,354,472; Oct. 5; v. 279; p. 5.

Dow, Herbert H., assignor to The Dow Chemical Company, Midland, Mich. Plastic composition. No. 1,339,552; May 11; v. 274; p. 244.

Dow, Herbert H., and C. J. Strosacker, assignors to The Dow Chemical Company, Midland, Mich. Making carbon disulfid. No. 1,350,858; Aug. 24; v. 277; p. 702.

Dow, Herbert H., and E. O. Barstow, assignors to The Dow Chemical Company, Midland, Mich. Method of making magnesium chlorid. No. 1,336,425; Apr. 13; v. 273; p. 196.

Dow, Jones & Company. (See Conger, George S., assignor.)

Dow Wire & Iron Works. (See Carson, Robert S., assignor.)

Dowd, Andrew D., Hoboken, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. No. 1,332,976; Mar. 9; v. 272; p. 205.

Dowd, Andrew D., Hoboken, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,362,607; Dec. 21; v. 281; p. 421.

Dowd, Peter, Globe, Ariz. Mosquito-mask. No. 1,342,277; June 1; v. 275; p. 130.

Dowd, Thomas, New York, N. Y. Toggle-bolt and holder. No. 1,360,200; Nov. 23; v. 280; p. 738.

Dowd, William C., Quincy, Ill. Centrifugal pump and the like. No. 1,348,633; Aug. 3; v. 277; p. 98.

Dowdall, John A., *et al.* (See Hachmann, Frederick, assignor.)

Dowdle, John W., Mineral Springs, Ark. Tying device. No. 1,349,503; Aug. 10; v. 277; p. 320.

Dowell, Alva E., Macomb, Ill. Indoor toilet. No. 1,363,459; Dec. 28; v. 281; p. 626.

Dowell, Archie G. (See Clark, Charles E., assignor.)

Dowell, Arthur E., Washington, D. C. Web-printing press. No. 1,348,553; Aug. 3; v. 277; p. 82.

Dowling, Minnie I., Chicago, Ill. Cleaning device. No. 1,355,391; Oct. 12; v. 279; p. 239.

Dowman-Dozier Mfg. Co. (See Hewitt, Strafford R., assignor.)

Down, Norman B., Sewell, Chile, assignor to Braden Copper Company. Method of and apparatus for filtering. No. 1,348,159; Aug. 3; v. 277; p. 5.

Downey, Harry C., Springfield, Ohio. Support for containers. No. 1,329,513; Feb. 3; v. 271; p. 32.

Downey, Richard F., Milwaukee, assignor of one-half to H. Schreier, Sheboygan, Wis. Ball game. No. 1,339,846; May 11; v. 274; p. 300.

Downey, Richard F., assignor of one-third to A. Leich and one-third to J. S. Berner, Milwaukee, Wis. Machine for printing and dispensing slips. No. 1,361,234; Dec. 7; v. 281; p. 50.

Downey, John B., and A. C. Edgecomb, Topsham, Me. Rod-puller. No. 1,357,853; Nov. 2; v. 280; p. 124.

Downie, James H., San Antonio, Tex. Paper-cutting machine. No. 1,347,536; July 27; v. 276; p. 613.

Downie, James H., San Antonio, Tex. Transmission-gear. No. 1,348,160; Aug. 3; v. 277; p. 5.

Downie, Robert M., assignor to Keystone Driller Company, Beaver Falls, Pa. Six-way valve. No. 1,344,490; June 22; v. 275; p. 746.

Downie, Robert M., assignor to Keystone Driller Company, Beaver Falls, Pa. Means for leveling and staying excavating-machines. No. 1,350,992; Aug. 24; v. 277; p. 727.

Downing, John W., Rockford, Ill. Card-index system. No. 1,340,384; May 18; v. 274; p. 458.

Downing, Samuel J., and F. A. Sutherland, Millinocket, Me. Ice-cream-cone-holder insert for bags. No. 1,343,252; June 15; v. 275; p. 438.

Downing, Virgil L., assignor to Winther Motor Truck Company, Kenosha, Wis. Wheel. No. 1,339,439; May 11; v. 274; p. 222.

Downs, Charles R. (See Weiss, J. M., and Downs.)

Downs, Charles, R. A. Bellwood, Kingston-upon-Hull, and T. W. Turnill, Cottingham, near Kingston-upon-Hull, England. Extracting oil from vegetable seeds, nuts, and the like. No. 1,338,909; May 4; v. 274; p. 48.

Downs, George F., and H. F. Miller, Jr., Buffalo, N. Y.; said Miller assignor to said Downs. Port construction for metallurgical furnaces. No. 1,343,314; June 15; v. 275; p. 449.

Downs, George F., and H. F. Miller, Jr., Buffalo, N. Y.; said Miller assignor to said Downs. Port construction for metallurgical furnaces. No. 1,343,315; June 15; v. 275; p. 450.

Downs, Richard, *et al.* (See Krickel, Louis H., assignor.)

Downs, William F., Chatham, N. J. Treating alunite. No. 1,338,428; Apr. 27; v. 273; p. 720.

Dows, Chester L. (See Blair, F. P., Dows, and Merrill.)

Doxford, Robert P. (See Keller, Karl O., assignor.)

Doxford, Robert P., and K. O. Keller, Sunderland, England. Valve-gear for internal-combustion engines. No. 1,334,268; Mar. 16; v. 272; p. 507.

Doyle, Clarence E., Washington, D. C., assignor to Hutchinson Egg-Case Filler Co., Hutchinson, Kans. Receptacle-closure. No. 1,347,446; July 20; v. 276; p. 538.

Doyle, Edward J. (See McCarthy, John H., assignor.)

Doyle, Elmer J., Detroit, Mich. Combined velocipede and wagon. No. 1,346,596; July 13; v. 276; p. 312.

Doyle, Helen F., Waterbury, Conn. Clothesline-coupling. No. 1,346,487; July 13; v. 276; p. 290.

Doyle, James H., Chicago, and W. J. Kenny, Cicero, Ill., assignors to American Can Company, New York, N. Y. Bail for container bodies. No. 1,351,896; Sept. 7; v. 278. p. 37.

Doyle, John R., Philadelphia, Pa. Valve. No. 1,338,562; Apr. 27; v. 273; p. 745.

Digitized by Google

Doyle, Joseph P., Lakewood, Ohio. Smoke-preventing furnace-door check. No. 1,347,261; July 20; v. 276; p. 502.
Doyle, Vernon, Seattle, Wash. Packing-tool. No. 1,341,888; June 1; v. 275; p. 54.
Doyle, William J., Brooklyn, N. Y. Medical appliance. No. 1,337,829; Apr. 20; v. 273; p. 537.
Doyle, William J., and J. J. Wollenhaupt, assignors to The Monitor Stove & Range Company, Cincinnati, Ohio. Hot-air furnace. No. 1,340,134; May 11; v. 274; p. 355.
Doyle, William J., and J. J. Wollenhaupt, assignors to The Monitor Stove & Range Company, Cincinnati, Ohio. Furnace. No. 1,346,801; July 13; v. 276; p. 354.
Doyle, William T. (See Sturtevant, T. J., and Doyle.)
Dozier, James C., Baton Rouge, La. Feeding mechanism for stapling-machines. No. 1,348,161; Aug. 3; v. 277; p. 6.
Dozier, James C., and J. L. Walker, Baton Rouge, La. Veneer-slitting machine. No. 1,356,271; Oct. 19; v. 279; p. 451.
Drabek, Charles, assignor to The Drabek Equalizer Company, Cleveland, Ohio. Spring-tire for vehicle-wheels. No. 1,337,445; Apr. 20; v. 273; p. 464.
Drabek, Charles, assignor to The Drabek Equalizer Company, Cleveland, Ohio. Spring-suspension for vehicles. (Reissue.) No. 14,918; July 20; v. 276; p. 546.
Drabek, Charles, Cleveland, Ohio. Combined spring and lever suspension for vehicles. No. 1,359,677; Nov. 23; v. 280; p. 634.
Drabek Equalizer Company, The. (See Drabek, Charles, assignor.)
Draber, Frank. (See Walden, Marcus A., assignor.)
Drabers, William H., Niles, Ohio. Wall system. No. 1,351,471; Aug. 31; v. 277; p. 885.
Drag, Nicholaus, Milwaukee, Wis. Automatic rodent-trap. No. 1,335,882; Apr. 6; v. 273; p. 33.
Dragon, Hippolyte, San Francisco, Calif. Pie-edge trimmer. No. 1,329,586; Feb. 3; v. 271; p. 46.
Dragus, Nickalaus E., Fremont, Ohio. Pruning implement. No. 1,338,216; Apr. 27; v. 273; p. 680.
Drain, John A., Philadelphia, Pa. Ingot-mold. No. 1,346,369; July 13; v. 276; p. 267.
Drake, Albert H., and P. Vandeveer, Louisville, Ky. Windshield-mirror. No. 1,362,856; Dec. 21; v. 281; p. 470.
Drake, Alden M. (See Heald, J. N., and Drake.)
Drake, Alfred E., assignor to Drake Manufacturing Company, Indianapolis, Ind. Steering device. No. 1,352,659; Sept. 14; v. 278; p. 219.
Drake, Carrie M., Fort Dodge, Iowa. Skirt evener, tucker, hemmer, and marker. No. 1,344,871; June 29; v. 275; p. 885.
Drake, Charles, Mannington, W. Va. Clamp. No. 1,363,852; Dec. 28; v. 281; p. 703.
Drake, Clarke S., Milwaukee, Wis. Humidifier. No. 1,361,028; Dec. 7; v. 281; p. 9.
Drake, Edwin Y., Davenport, Iowa. Toilet-bowl cleaner. No. 1,361,972; Dec. 14; v. 281; p. 245.
Drake, Harcourt C., and A. Slagenhauf, Brooklyn, N. Y. Headstock-brake. No. 1,327,656; Jan. 13; v. 270; p. 206.
Drake, James M., Shawano, Wis. Potato-bug-trapping machine. No. 1,344,119; June 22; v. 275; p. 673.
Drake Manufacturing Company. (See Drake, Alfred E., assignor.)
Drake, Walter H., Cleveland, Ohio. Apparatus for producing articles from pulp. (Reissue.) No. 14,973; Oct. 26; v. 279; p. 683.
Drake, Warren C. (See Priebe, Ernest B., assignor.)
Drambourg, Rudolphe, Brooklyn, N. Y., assignor, by mesne assignments, to Federal Battery Manufacturing Corporation, Washington, D. C. Storage cell. No. 1,333,295; Mar. 9; v. 272; p. 264.
Drange, Carl E. (See Scott, D. J., and Drange.)
Drane, Merritt, Lyndon, Ky. Direction-signal. No. 1,327,027; Jan. 6; v. 270; p. 28.
Drane, Merritt, and H. W. Stone, Louisville, Ky. Petcock-operating device. No. 1,355,544; Oct. 12; v. 279; p. 269.
Drange, Carl E., Plainfield, N. J., assignor to I. Scott and D. J. Scott, executors. Attaching printing-plates to cylinders. No. 1,360,377; Nov. 30; v. 280; p. 840.
Drange, Carl E., Plainfield, N. J., assignor to I. Scott and D. J. Scott, executors. Means for attaching printing-plates to cylinders. No. 1,360,378; Nov. 30; v. 280; p. 840.
Draper, Charles T., assignor to The Draper Manufacturing Company, Cleveland, Ohio. Protectively coating sheet-metal containers. No. 1,346,943; July 20; v. 276; p. 440.
Draper, Clare H., and J. Northrop, Hopedale, assignors to Hopedale Manufacturing Company, Milford, Mass. Filling-detector mechanism. No. 1,342,710; June 8; v. 275; p. 267.
Draper, Clare H., and J. Northrop, Hopedale, assignor to Hopedale Manufacturing Company, Milford, Mass. Feeler-loom. No. 1,361,839; Dec. 14; v. 281; p. 218.
Draper, Clare H., and J. Northrop, Hopedale, assignors to Hopedale Manufacturing Company, Milford, Mass. Feeler-loom. No. 1,361,973; Dec. 14; v. 281; p. 246.
Draper Corporation. (See Barlow, James H., assignor.)
Draper Corporation. (See Boisvert, Philippe, assignor.)
Draper Corporation. (See Brown, Carl D., assignor.)
Draper Corporation. (See Carter, Charlie O., assignor.)
Draper Corporation. (See Coupe, Lawrence W., assignor.)
Draper Corporation. (See Davis, Harry A., assignor.)
Draper Corporation. (See Demeule, Dorila, assignor.)
Draper Corporation. (See Freeman, John M., assignor.)
Draper Corporation. (See Gagnon, Ernest A., assignor.)
Draper Corporation. (See Lacey, Fred, assignor.)
Draper Corporation. (See Lussier, Henry, assignor.)
Draper Corporation. (See Rhodes, Albert C., assignor.)
Draper Corporation. (See Rolen, John P., assignor.)
Draper Corporation. (See Skedgell, David E., assignor.)
Draper Corporation. (See Stimpson, Edward S., assignor.)
Draper Corporation. (See Stone, Melvin L., assignor.)
Draper Corporation. (See Taranto, John, assignor.)
Draper Corporation. (See Towers, Jesse, assignor.)
Draper Corporation. (See Warren, Charles H., assignor.)
Draper Corporation. (See Wild, Arnold, assignor.)
Draper Corporation. (See Youngquist, Henry W., assignor.)
Draper, John. (See Freeze, Green, assignor.)
Draper, John M., Bridgend, England. Separator for the treatment of coal, clays, ores, and the like. No. 1,351,234; Aug. 31; v. 277; p. 837.
Draper Manufacturing Company, The. (See Draper, Charles T., assignor.)
Draper, Walter, Chorley, England. Device for cleaning the flats in carding-engines. No. 1,363,094; Dec. 21; v. 281; p. 516.
Draver, Henry C., Knoxville, Tenn., assignor to W. J. Savage Company. Feed-regulator. No. 1,357,854; Nov. 2; v. 280; p. 125.
Dray, Michael, Coatesville, Pa. Ship-raising apparatus. No. 1,332,384; Mar. 2; v. 272; p. 41.
Drayer, Ulysses S., Altoona, Pa. Wrecking, poling, wiring, lifting, and truck carrying iron for railway-cars. No. 1,341,787; June 1; v. 275; p. 35.
Drazick, George, Milwaukee, Wis. Stump-puller. No. 1,354,473; Oct. 5; v. 279; p. 5.
Dreher, Richard C., Rockville, Conn. Picking-motion for looms. No. 1,342,946; June 8; v. 275; p. 314.
Dreibelbis, Alfred S., Reading, Pa. Tie and rail-fastening. No. 1,362,608; Dec. 21; v. 281; p. 421.
Dreibrodt, Otto, Bitterfeld, Germany, assignor to Elektrochemische Werke, G. m. b. H. Method of and apparatus for forming large crystals. No. 1,353,571; Sept. 21; v. 278; p. 459.
Dreis, Herman C., Chicago, Ill. Bending-brake. No. 1,347,474; July 20; v. 276; p. 544.
Dreisbach, Robert D., Allentown, Pa. Automatic sander for locomotives and the like. No. 1,360,627; Nov. 30; v. 280; p. 890.
Drekolias, Adam, Staten Island, N. Y. Means for preventing the sinking of ships. No. 1,355,656; Oct. 12; v. 279; p. 290.
Dresch, Israel J., Toledo, Ohio. Dental-plate attachment. No. 1,339,812; May 11; v. 274; p. 293.
Drescher, Edward. (See Baldwin, George, assignor.)
Drescher, Theodore B., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Manufacture of lenses. No. 1,350,441; Aug. 24; v. 277; p. 622.
Dressler, Philip, Zanesville, Ohio., assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y. Tunnel-kiln. No. 1,354,541; Oct. 5; v. 279; p. 19.
Dressler, Philip d'H., Zanesville, Ohio, assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y. Tunnel-kiln combustion-chamber. No. 1,330,432; Feb. 10; v. 271; p. 235.
Dressler, Philip d'H., Zanesville, Ohio, assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y. Tunnel-kiln. No. 1,330,433; Feb. 10; v. 271; p. 235.
Dressler, Philip d'H., Zanesville, Ohio, assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y. Combustion-chamber. No. 1,348,486; Aug. 3; v. 277; p. 69.
Dressler, Philip d'H., Zanesville, Ohio., assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y. Gas-producer conduits. No. 1,354,542; Oct. 5; v. 279; p. 19.
Dressler, Philip d'H., Zanesville, Ohio, assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y. Combined muffle and open tunnel kiln. No. 1,360,625; Nov. 30; v. 280; p. 890.
Dressler, Philip d'H., Zanesville, Ohio, assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y. Combined muffle and open tunnel kiln. No. 1,360,626; Nov. 30; v. 280; p. 890.
Dressler, William C. (See Huggins, M. J., and Dressler.)
Drevet, Emile, Montreal, Quebec, Canada. Water-heater. No. 1,341,048; May 25; v. 274; p. 656.
Drew Carrier Company. (See Peters, E. A., and Welhoefer, assignors.)
Drew, Claude, Kings Lynn, England. Stopper-extractor. No. 1,330,689; Feb. 10; v. 271; p. 282.
Drew, Herbert H., Edgerton, Wis. Stock-watering apparatus. No. 1,328,036; Jan. 13; v. 270; p. 277.
Drew, John W., assignor to Moon Brothers Manufacturing Company, St. Louis, Mo. Pump-packing. No. 1,329,165; Jan. 27; v. 270; p. 556.
Drew, John W., assignor to Moon Brothers Manufacturing Company, St. Louis, Mo. Piston-rod packing. No. 1,355,318; Oct. 12; v. 279; p. 225.

Digitized by Google

Drew, John W., assignor to Moon Brothers Manufacturing Company, St. Louis, Mo. Pump-piston. No. 1,357,624; Nov. 2; v. 280; p. 80.
Drews, Frank, Willmar, Minn. Manually-operated rotary device. No. 1,340,026; May 11; v. 274; p. 333.
Drey Automatic Glass Machine Company. (See Schram, Alexander L., assignor.)
Drey, Leo A., St. Louis, Mo., and J. L. Hiatt, Sapulpa, Okla., assignors to Schram Glass Manufacturing Co., St. Louis, Mo. Fruit-jar fastener. No. 1,352,119; Sept. 7; v. 278; p. 78.
Drey, Wilfred J., Carlisle, Pa., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Apparatus for covering the heels of shoes. No. 1,341,737; June 1; v. 275; p. 25.
Dreyer, Frank, Elizabeth, N. J. Device for turning pocket-like articles. No. 1,355,947; Oct. 19; v. 279; p. 387.
Dreyfus, Emil B. (See Bunch, Walter R., assignor.)
Dreyfus, Henry, London, England. Manufacture of acetic anhydrid. No. 1,338,979; May 4; v. 274; p. 60.
Dreyfus, Henry, London, England. Manufacture of compositions, preparations, or articles having a basis of cellulose acetate. No. 1,353,384; Sept. 21; v. 278; p. 421.
Dreyfus, Henry, London, England. Manufacture of compositions, preparations, or articles having a basis of cellulose acetate. No. 1,353,385; Sept. 21; v. 278; p. 421.
Dreyfus, Henry, Basel, Switzerland. Manufacture of acetic aldehyde. No. 1,361,974; Dec. 14; v. 281; p. 246.
Dreyfus, Henry, London, England. Manufacture of solution, composition, or preparation having a basis of acetate of cellulose. No. 1,363,763; Dec. 28; v. 281; p. 686.
Dreyfus, Herbert D., Terre Haute, Ind. Safety device for motion-picture projectors. No. 1,342,429; June 8; v. 275; p. 213.
Dreyfus, Sylvain. (See Gaisman, Lucien, assignor.)
Dreyling, Alfred, Jamesburg, N. J., and W. C. Locke, Stamford, Conn. Making canvas wire-cloth. No. 1,337,053; Apr. 13; v. 273; p. 317.
Driggs, George W., and F. R. Henke, Elyria, Ohio. Object-holder. No. 1,346,944; July 20; v. 276; p. 440.
Dringman, Ernest, Paxton, Nebr. Sand-guard for irrigation-ditches. No. 1,348,554; Aug. 3; v. 277; p. 82.
Drinker, Richard C., Quincy, Mass. Removable partition for metal-heating furnaces. No. 1,330,244; Feb. 10; v. 271; p. 200.
Drinker, Richard C., Quincy, Mass. Truck for charges in heating-furnaces. No. 1,330,245; Feb. 10; v. 271; p. 200.
Drinker, Richard C., Quincy, Mass. Furnace-floor bar. No. 1,342,041; June 1; v. 275; p. 84.
Drinkwater, Charles M., Kokomo, Ind. Food-cabinet. No. 1,336,776; Apr. 13; v. 273; p. 263.
Drinkwater, Frank L., assignor to American Fluid Company, Kansas City, Mo. Embalming set. No. 1,335,158; Mar. 30; v. 272; p. 783.
Drinkwater, James F., Willard, Ohio. Railway-brake appliance. No. 1,328,138; Jan. 13; v. 270; p. 297.
Drisco Silo Company. (See Burkeman, Axel H., assignor.)
Driscoll, Con, Coalinga, Calif. Propelling and draft-reducing mechanism for ships and boats. No. 1,347,148; July 20; v. 276; p. 480.
Driver, Charles H., Racine, Wis. Saw-blade. No. 1,336,209; Apr. 6; v. 273; p. 95.
Driver, Frederick P., assignor to Osram-Robertson Lamp Works, Limited, London, England. Means for supporting electrodes in ionic tubes. No. 1,330,935; Feb. 17; v. 271; p. 398.
Driver, Frederick P., London, assignor to Osram-Robertson Lamp Works, Limited, Brook Green, Hammersmith, London, England. Means for supporting electrodes in ionic tubes. No. 1,335,159; Mar. 30; v. 272; p. 783.
Driver, John R. and M. B., Berkeley, Calif. Collapsible container. No. 1,336,895; Apr. 13; v. 273; p. 286.
Driver, John R. and M. B., Berkeley, Calif. Storage-container. No. 1,336,896; Apr. 13; v. 273; p. 286.
Driver, Michael B. (See Driver, John R. and M. B.)
Droelle, Otto, assignor of one-half to S. L. Vital, Detroit, Mich. Game. No. 1,331,249; Feb. 17; v. 271; p. 456.
Droiteour, Michael A., Delphos, Ohio. Sheet-advancing mechanism. No. 1,332,718; Mar. 2; v. 272; p. 104.
Droitcour, Michael A., Delphos, Ohio. Printing-press. No. 1,356,051; Oct. 19; v. 279; p. 407.
Drolet, Benjamin. (See Plante, Albert E., assignor.)
Dron, Andrew P., Fresno, Calif. Rotary pump. No. 1,363,315; Dec. 28; v. 281; p. 600.
Drope, Clarence J., Minneapolis, Minn. Tire. No. 1,346,081; July 6; v. 276; p. 149.
Drouet, Charles, Houston, Tex. Pneumatic tire. No. 1,346,945; July 20; v. 276; p. 440.
Drouillard, Elzear J., Detroit, Mich. Cone-rolling machine. No. 1,350,859; Aug. 24; v. 277; p. 702.
Drouve G., Company, The. (See Anderson, Nils H., assignor.)
Drozd, Kazimierz, Willock, Pa. Breast-drill. No. 1,350,144; Aug. 17; v. 277; p. 516.
Druar, Frank J., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,327,148; Jan. 6; v. 270; p. 50.
Drucker, August E. (See Palmer, Robert R., assignor.)
Drucker, Samuel. (See Sieck, W., Jr., and Drucker.)
Drucker, George A., W. Sieck, Jr., and S. Drucker, Chicago, Ill. Engraving or embossing means. No. 1,362,684; Dec. 21; v. 281; p. 436.
Drucker, Samuel. (See Drucker, G. A., Sieck, and Drucker.)
Druliner, George W., Minneapolis, Minn. Register. No. 1,336,210; Apr. 6; v. 273; p. 96.
Drum, William, assignor of one-half to W. J. Collins, Portland, Oreg. Piston-rod packing. No. 1,329,829; Feb. 3; v. 271; p. 91.
Drumm, Elmer E., Manitowoc, Wis. Headlight-adjusting device. No. 1,347,537; July 27; v. 276; p. 613.
Drumm, Herbert C., assignor to The Union Metal Manufacturing Company, Canton, Ohio. Foundry-flask. No. 1,335,564; Mar. 30; v. 272; p. 858.
Drumm, Herbert C., assignor to The Union Metal Manufacturing Company, Canton, Ohio. Handle for foundry-flasks. No. 1,335,565; Mar. 30; v. 272; p. 858.
Drumm, Herbert C., assignor to The Union Metal Manufacturing Company, Canton, Ohio. Core-plate for drying cores. No. 1,337,005; Apr. 13; v. 273; p. 306.
Drummond, Albert, Los Angeles, Calif. Door-catch. No. 1,336,897; Apr. 13; v. 273; p. 287.
Drummond, Edward W., Wollaston, Mass. Railway-tie and fastener. No. 1,346,305; July 13; v. 276; p. 255.
Drummond, William G., Los Angeles, Calif. Gear-shift. No. 1,346,532; July 13; v. 276; p. 299.
Drury, John J., Troy, Ohio. Washing-machine. No. 1,331,328; Feb. 17; v. 271; p. 470.
Druze, Alexey, Newark, N. J. Fruit-collector. No. 1,361,029; Dec. 7; v. 281; p. 10.
Dryen, Achille, Londerzeel, Belgium. Pump. No. 1,327,423; Jan. 6; v. 270; p. 101.
Dryden, George H., Baltimore, Md. Lightning-arrester. No. 1,359,971; Nov. 23; p. 280; p. 693.
Dryden Rubber Company. (See Burdette, James C., assignor.)
Dryden Rubber Company. (See Reeves, George C., assignor.)
Dryer, William, Topeka, Kans. Adjustable brush and weed cutter. No. 1,357,855; Nov. 2; v. 280; p. 125.
Dryfoos, Sidney L., assignor to The Duplex Hanger Company, Cleveland, Ohio. Post-cap. No. 1,355,657; Oct. 12; v. 279; p. 290.
Drysdale, Charles V., Dumbartonshire, Scotland. Alternating-current relay. No. 1,328,825; Jan. 27; v. 270; p. 491.
Drysdale & Company. (See Drysdale, J. W. W., Jr., and Young, assignors.)
Drysdale, Henry, London, England. Container or box. No. 1,362,090; Dec. 14; v. 281; p. 269.
Drysdale, John W. W., Jr., and J. Young, assignors to Drysdale & Company, Limited, Yoker, near Glasgow, Scotland. Electrically-driven rotary pump. No. 1,355,755; Oct. 12; v. 279; p. 309.
Dubee, Adelard J., Glens Falls, N. Y. Threshold. No. 1,348,396; Aug. 3; v. 277; p. 52.
Duber, Paul. (See Seufer, E., and Duber.)
Dubilier, William, New York, N. Y. Series condenser. No. 1,327,593; Jan. 6; v. 270; p. 133.
Dubilier, William, New York, N. Y. Condenser. No. 1,334,139; Mar. 16; v. 272; p. 484.
Dubilier, William, New York, N. Y. Condenser and adjusting same. No. 1,334,140; Mar. 16; v. 272; p. 484.
Dubilier, William, New York, N. Y. Insulation-testing device. No. 1,334,141; Mar. 16; v. 272; p. 484.
Dubilier, William, New York, N. Y. Condenser-plate construction. No. 1,334,142; Mar. 16; v. 272; p. 485.
Dubilier, William, New York, N. Y. Condenser and making same. No. 1,345,754; July 6; v. 276; p. 84.
Dubilier, William, New York, N. Y. Self-protecting condenser. No. 1,350,010; Aug. 17; v. 277; p. 491.
Du Bois, Clarence L., Camden, N. J. Flexible-coupling disk. No. 1,350,011; Aug. 17; v. 277; p. 491.
Dubois, Frederick, Kenora, Ontario, Canada. Hose-drying apparatus. No. 1,332,326; Mar. 2; v. 272; p. 28.
Dubois, Léon, St. Etienne, France. Punching-machine. No. 1,360,905; Nov. 30; v. 280; p. 944.
Du Bois, Thomas R. (See Zimmerman, T., and Du Bois.)
Du Bois, Thomas R., assignor, by mesne assignments, to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Engine starter and generator. No. 1,348,555; Aug. 3; v. 277; p. 82.
Du Bois, Thomas R., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Starting and generating system. No. 1,363,236; Dec. 28; v. 281; p. 584.
Du Bois, Thomas R., Orange, N. J., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Starting and lighting system. No. 1,363,237; Dec. 28; v. 281; p. 584.
Dubrisay, René, Paris, France. Producing damp-proof matches. No. 1,363,095; Dec. 21; v. 281; p. 516.
Dubrow, Frederick, Sausalito, Calif. Artificial fish-bait. No. 1,334,022; Mar. 16; v. 272; p. 462.
Du Buque, George F., Los Angeles, Calif. Dental appliance. No. 1,349,188; Aug. 10; v. 277; p. 258.
Duca, Henry, Wilson, Mich. Anchoring device. No. 1,358,715; Nov. 16; v. 280; p. 401.
Ducas, Charles. New York, N. Y. Fire-box for boilers. No. 1,353,640; Sept. 21; v. 278; p. 473.
Ducatt, Dennis C., Saranac Lake, N. Y. Toy coaster. No. 1,334,441; Mar. 23; v. 272; p. 586.

Digitized by Google

Ducharme, George A., assignor to Hotel Security Checking Company, Medford, Mass. Loose-leaf and carbon book. No. 1,357,766; Nov. 2; v. 280; p. 107.
Ducharme, Thomas. (See Varin, Joseph, assignor.)
Duchemin, George W., Newark, N. J. Machine for making airplane-propellers, &c. No. 1,363,238; Dec. 28; v. 281; p. 585.
Duchemin, Ormand, Paris, France. Apparatus for the manufacture of cyanamid. No. 1,363,096; Dec. 21; v. 281; p. 516.
Duchesne, Ernest, Montreal, Quebec, Canada. Piston-rod toggle mechanism. No. 1,361,235; Dec. 7; v. 281; p. 50.
Duchesne, Henri H., Montreal, Quebec, Canada. Motor for phonographs and like machines. No. 1,335,566; Mar. 30; v. 272; p. 858.
Duchesne, Ulric, Montreal, Quebec, Canada. Coaster-brake. No. 1,356,052; Oct. 19; v. 279; p. 407.
Duckstine, Julius, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,348,487; Aug. 3; v. 277; p. 69.
Duckworth, Dewitt T., Sapulpa, Okla. Nut-lock. No. 1,334,893; Mar. 23; v. 272; p. 672.
Duckworth, Frederick R., Dunadry, Ireland. Lamp for road-vehicles. No. 1,330,176; Feb. 10; v. 271; p. 187.
Dudash, Jacob, Rockville, Conn. Puzzle. No. 1,356,610; Oct. 26; v. 279; p. 564.
Dudek, John, Campbell, Nebr. Cap-wrench. No. 1,363,316; Dec. 28; v. 281; p. 600.
Dudgeon, John F., Norfolk, Nebr. Radiator-protector. No. 1,338,614; Apr. 27; v. 273; p. 754.
Dudley, Adolphus M. (See Barclay, D., and Dudley.)
Dudley, Clarence L. (See Mowry, C. L., and Dudley.)
Dudley, D. T., & Sons Company. (See Wilson, Robert J., assignor.)
Dudley, Edward F., Oak Park, assignor to The Miehle Printing Press and Manufacturing Company, Chicago, Ill. Buffer for printing-presses. No. 1,344,683; June 29; v. 275; p. 849.
Dudley, Howard M., Philadelphia, Pa. Dyeing-machine. No. 1,327,200; Jan. 6; v. 270; p. 60.
Dudley, Howard M., Philadelphia, Pa. Skein-dyeing machine. No. 1,327,657; Jan. 13; v. 270; p. 206.
Dudley, Howard M., Philadelphia, Pa. Dyeing-machine. No. 1,327,658; Jan. 13; v. 270; p. 206.
Dudley, Howard M., Philadelphia, Pa. Fabric-treating device. No. 1,327,659. Jan. 13; v. 270; p. 207.
Dudley, Howard M., Philadelphia, Pa. Dyeing-machine. No. 1,327,660; Jan. 13; v. 270; p. 207.
Dudley, Howard M., Philadelphia, Pa. Dyeing device. No. 1,327,661; Jan. 13; v. 270; p. 207.
Dudley, Howard M., Philadelphia, Pa. Dyeing-machine. No. 1,327,662; Jan. 13; v. 270; p. 207.
Dudley, Howard M., Philadelphia, Pa. Fiber-treating machine. No. 1,327,663; Jan. 13; v. 270; p. 208.
Dudley, Howard M., Philadelphia, Pa. Hosiery-dyeing machine. No. 1,327,756; Jan. 13; v. 270; p. 225.
Dudley, Howard M., Philadelphia, Pa. Fiber-treating machine. No. 1,328,987; Jan. 27; v. 270; p. 523.
Dudley, Howard M., Philadelphia, Pa. Hosiery-dyeing machine. No. 1,330,246; Feb. 10; v. 271; p. 200.
Dudley, Howard M., Philadelphia, Pa. Fabric-treating device. No. 1,330,247; Feb. 10; v. 271; p. 200.
Dudley, Howard M., Philadelphia, Pa. Fabric-treating machine. No. 1,331,743; Feb. 24; v. 271; p. 569.
Dudley, Howard M., Philadelphia, Pa. Dyeing device. No. 1,331,744; Feb. 24; v. 271; p. 570.
Dudley, Howard M., Philadelphia, Pa. Dyeing-machine. No. 1,332,488; Mar. 2; v. 272; p. 60.
Dudley, Howard M., Philadelphia, Pa. Dyeing-machine. No. 1,332,489; Mar. 2; v. 272; p. 60.
Dudley, Howard M., Philadelphia, Pa. Dyeing-machine. No. 1,334,526; Mar. 23; v. 272; p. 602.
Dudley, Howard M., Philadelphia, Pa. Hosiery-dyeing machine. No. 1,334,527; Mar. 23; v. 272; p. 602.
Dudley, Howard M., Philadelphia, Pa. Fabric-treating device. No. 1,334,528; Mar. 23; v. 272; p. 602.
Dudley, Howard M., Philadelphia, Pa. Textile-treating device. No. 1,334,529; Mar. 23; v. 272; p. 603.
Dudley, Howard M., Philadelphia, Pa. Fiber-treating machine. No. 1,335,097; Mar. 30; v. 272; p. 771.
Dudley, Howard M., Philadelphia, Pa. Fabric-treating device. No. 1,335,098; Mar. 30; v. 272; p. 771.
Dudley, Howard M., Philadelphia, Pa. Dyeing-machine. No. 1,338,217; Apr. 27; v. 273; p. 681.
Dudley, Howard M., Philadelphia, Pa. Dyeing-machine. No. 1,338,218; Apr. 27; v. 273; p. 681.
Dudley, Howard M., Philadelphia, Pa. Dyeing-machine. No. 1,342,711; June 8; v. 275; p. 267.
Dudley, Howard M., Philadelphia, Pa. Hosiery-dyeing machine. No. 1,344,120; June 22; v. 275; p. 673.
Dudley, Howard M., Philadelphia, Pa. Hosiery-dyeing machine. No. 1,344,121; June 22; v. 275; p. 673.
Dudley, Howard M., Philadelphia, Pa. Fiber-treating machine. No. 1,344,122; June 22; v. 275; p. 673.
Dudley, Howard M., Philadelphia, Pa. Dyeing-machine. No. 1,359,043; Nov. 16; v. 280; p. 465.
Dudley, Raymond C. (See Lively, Benjamin F., assignor.)
Dudley, Thomas J., Dallas, assignor of one-fourth to A. L. Gracey, Dallas county, Tex. Draft-equalizer. No. 1,354,033; Sept. 28; v. 278; p. 594.
Dudley, Walter J. (See Brinton, Willard C., assignor.)
Duensing, A'Quilla, Altoona, Iowa. Printing device. No. 1,353,032; Sept. 14; v. 278; p. 293.
Duesenberg, August S. (See Duesenberg, Frederick S. and A. S.)
Duesenberg, Frederick S. and A. S., Elizabeth, N. J. Internal-combustion engine. No. 1,363,500; Dec. 28; v. 281; p. 635.
Duesenberg, Frederick S. and A. S., Elizabeth, N. J. Lubricating system. No. 1,363,501; Dec. 28; v. 281; p. 635.
Dueweke, Alexander, Detroit, Mich. Fire-door. No. 1,332,111; Feb. 24; v. 271; p. 639.
Duff, Alexander, *et al.* (See Canner, Max O., assignor.)
Duff, Frank C. (See Toll, H. H., and Duff.)
Duff Manufacturing Company, The. (See Kopf, John C., assignor.)
Duff Manufacturing Company. (See Kopf and Schwerin, assignors.)
Duff, Michael J., assignor to The Moo-V Doll Manufacturing Company, Bridgeport, Conn. Doll. No. 1,340,160; May 18; v. 274; p. 417.
Duff, Sarah, *et al.* (See Canner, Max O., assignor.)
Duffee, Rebecca J., Pittsburgh, Pa. Binder for hair-dressing. No. 1,360,100; Nov. 23; v. 280; p. 718.
Duffey, Edward. (See Thompson, Joseph W., assignor.)
Duffey, Edward M., Kansas City, Mo. Battery-plate support. No. 1,353,154; Sept. 21; v. 278; p. 376.
Duffies, Alfred S., Markesan, Wis., and F. Mead, Chicago, Ill. Cushioned wheel. No. 1,353,325; Sept. 21; v. 278; p. 409.
Duffies, Alfred S., Markesan, Wis. Cushioned-wheel rim. No. 1,353,326; Sept. 21; v. 278; p. 409.
Duffy, Charles H., Chevy Chase, Md. Parachute. No. 1,328,425; Jan. 20; v. 270; p. 387.
Duffy, Charles H., Chevy Chase, Md. Spark-plug. (Reissue.) No. 14,847; Apr. 27; v. 273; p. 763.
Duffy, Charles H., Chevy Chase, Md. Spark-plug. (Reissue.) No. 14,862; May 25; v. 274; p. 767.
Duffy, Clarence O., Dallas, Tex. Producing tire-patch material. No. 1,339,696; May 11; v. 274; p. 272.
Duffy, Henry, Longmont, Colo. Vacuum sealing device. No. 1,336,211; Apr. 6; v. 273; p. 96.
Duffy, James J., Chicago, Ill. Auxiliary rail-support for temporary use. No. 1,353,572; Sept. 21; v. 278; p. 459.
Duffy, James P. (See Murphy, Thomas J., assignor.)
Duffy, James P. B. (See Murphy, Thomas J., assignor.)
Duffy, James T., San Antonio, Tex. Condensing a vapor in a natural gas. No. 1,356,196; Oct. 19; v. 279; p. 437.
Duffy, John, Chicago, Ill. Fuel-mixer. No. 1,347,997; July 27; v. 276; p. 705.
Duffy, Joseph J., Chicago, Ill. Transmission mechanism. No. 1,342,587; June 8; v. 275; p. 244.
Duffy, Philip, West Duluth, Minn. Journal-box bearing. No. 1,335,668; Mar. 30; v. 272; p. 878.
Duffin, Thomas J., Chicago, Ill. Fluid paint composition. No. 1,362,241; Dec. 14; v. 281; p. 299.
Dufour, Pierre F., Paris, France. Brake for railway-trains. No. 1,352,586; Sept. 14; v. 278; p. 204.
Dufresne, David E., St. Lambert, and W. Adamson, Maisonneuve, Quebec, Canada. Meat-inspection table or support. No. 1,333,476; Mar. 9; v. 272; p. 298.
Dufresne, David E., and W. Adamson, St. Lambert, Quebec, Canada. Defatting apparatus for abattoirs. No. 1,334,694; Mar. 23; v. 272; p. 633.
Dugan, Thomas, Wichita, Kans., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Harvester. No. 1,350,012; Aug. 17; v. 277; p. 491.
Dugan, Thomas M. (See Holmes, A. B., and Dugan.)
Duggan, Charles E., Los Angeles, Calif. Trunk and suit-case fastener. No. 1,339,174; May 4; v. 274; p. 97.
Duggan, Joseph L., Chester, Pa. Game. No. 1,353,462; Sept. 21; v. 278; p. 436.
Duggan, Thomas R., assignor to The Permutit Company, New York, N. Y. Process and apparatus for softening water. No. 1,354,604; Oct. 5; v. 279; p. 32.
Duggan, William H. (See Gardiner, W., and Duggan.)
Dugit, Maurice. (See Dugit-Gros, Pierre M. F.)
Dugit-Gros, Pierre M. F., called Maurice Dugit, Lyon, France. Indicating device for measuring apparatus. No. 1,361,697; Dec. 7; v. 281; p. 144.
Duhamel, Sydney C., Vancouver, British Columbia, Canada. Artificial fish-bait. No. 1,332,112; Feb. 24; v. 271; p. 639.
Duhem, R. A., and J. D. Grant, San Francisco, Calif. Producing stereoscopic effects in motion pictures. No. 1,351,508; Aug. 31; v. 277; p. 892.
Duich, Steven, Colfax, Iowa. Street-sweeping machine. No. 1,363,502; Dec. 28; v. 281; p. 635.
Dukas, James K., Edwardsville, Pa. Fishing-net. No. 1,351,628; Aug. 31; v. 277; p. 916.
Duke, Harry A. (See Todhunter, R. T., Duke, and Woods.)
Duke, Luther L., Edison, assignor of one-half to B. H. Johnson, Dickey, Ga. Peanut-huller. No. 1,335,669; Mar. 30; v. 272; p. 878.
Dukesmith, Frank H., assignor, by mesne assignments, to The Reliance Air Brake Company, Inc., Buffalo, N. Y. Fluid-pressure brake. No. 1,357,692; Nov. 2; v. 280; p. 93.
Duket, Henry T., Toledo, Ohio. Pliers. No. 1,346,306; July 13; v. 276; p. 255.

Digitized by Google

Dula, Caleb C., assignor to Liggett & Myers Tobacco Company, New York, N. Y. Method of and means for preserving tobacco. No. 1,346,533; July 13; v. 276; p. 300.

Dula, Caleb C., assignor to Liggett & Myers Tobacco Company, New York, N. Y. Packing and preserving plug-tobacco. No. 1,355,658; Oct. 12; v. 279; p. 290.

Du Lac, E., *et al.* (See Auger, Joseph T., assignor.)

Dulac, François C., J. C. Vagnot, and A. Bessiron, Pont-de-Claix, Isère, France. Fastener for motor-car hoods and the like. No. 1,334,845; Mar. 23; v. 272; p. 663.

Dulac, Oscar, Woonsocket, R. I. Nursing-bottle holder. No. 1,349,051; Aug. 10; v. 277; p. 230.

Du Laney, James A. (See Lamping, G. B., and Du Laney.)

Dulany, John R., Pittsburgh, Pa. Cleaning oil and gas wells. No. 1,351,945; Sept. 7; v. 278; p. 47.

Dulczewski, Sigmund, and H. Stempkowski, Buffalo, N. Y. Burglar-lock. No. 1,361,317; Dec. 7; v. 281; p. 67.

Dulgeroff, Atanas P., Paducah, Ky. Combined kitchen-table and ironing-board. No. 1,330,851; Feb. 17; v. 271; p. 381.

Dulgeroff, Atanas P., Paducah, Ky. Picture-display device. No. 1,354,245; Sept. 28; v. 278; p. 638.

Dull, Raymond W., La Grange, Ill. Apparatus for screening and washing gravel. No. 1,342,990; June 8; v. 275; p. 323.

Dulle, John G., St. Louis, Mo. Picture-frame hanger. No. 1,357,280; Nov. 2; v. 280; p. 15.

Dultmeier, Frank J., Manning, Iowa. Adjustable tongue-hound. No. 1,363,503; Dec. 28; v. 281; p. 635.

Duluth Corrugating & Roofing Company. (See Severson, Thomas, assignor.)

Duluth Show Case Company. (See Bekering, Earl H., assignor.)

Dumail, Isidore, Rouen, France. Automatic apparatus for tensioning the warp in looms. No. 1,355,319; Oct. 12; v. 279; p. 225.

Du Mauel, Edmond G., Washington, D. C. Means for transmitting high-pressure fluids. No. 1,330,310; Feb. 10; v. 271; p. 211.

Du Mauel, Edmond G. F. R., Washington, D. C., assignor to the Government of the United States. Airplane bomb-sight. No. 1,360,735; Nov. 30; v. 280; p. 911.

Dummer, Albert H., Manitowoc, Wis. Gravity water-heater. No. 1,333,841; Mar. 16; v. 272; p. 427.

Dummer, Horace B., New York, N. Y. Toy aeroplane. No. 1,327,530; Jan. 6; v. 270; p. 121.

Du Mond, Chester J., Pueblo, Colo. Buoyant drum for motor-pontoons. No. 1,360,101; Nov. 23; v. 280; p. 719.

Dunaway, William S., Carmel, Calif. Combination-brush. No. 1,339,745; May 11; v. 274; p. 280.

Dunbar, Ernest W., assignor to Apsley Rubber Company, Hudson, Mass. Shoe. No. 1,348,136; July 27; v. 276; p. 733.

Dunbar, Howard W., A. Turner, and G. H. Smith, assignors, by mesne assignments, to Norton Company, Worcester, Mass. Cam-grinding apparatus. No. 1,339,746; May 11; v. 274; p. 281.

Dunbar, Leon W., Worcester, Mass. Electromagnetic chuck. No. 1,339,553; May 11; v. 274; p. 244.

Dunbar Manufacturing Company. (See Schroyer, Harry H., assignor.)

Duncan, De Lloyd O., Rockford, Ill. Reservoir-broach. No. 1,327,149; Jan. 6; v. 270; p. 50.

Duncan Electric Manufacturing Company. (See Harris, Jesse, assignor.)

Duncan, George S., Jeffersonville, Ind. Front-wheel-drive mechanism. No. 1,340,759; May 18; v. 274; p. 529.

Duncan, James N., assignor to Dodge Brothers, Detroit, Mich. Automobile-support. No. 1,340,438; May 18; v. 274; p. 469.

Duncan, Jay R., Kewanee, Ill. Game-cards. No. 1,349,189; Aug. 10; v. 277; p. 258.

Duncan, Jay R., Kewanee, Ill. Game-board. No. 1,349,190; Aug. 10; v. 277; p. 258.

Duncan, John Boone, Iowa. Car end construction. No. 1,350,442; Aug. 24; v. 277; p. 622.

Duncan, John N., Boone, Iowa. Trolley wheel and harp. No. 1,330,177; Feb. 10; v. 271; p. 187.

Duncan, Joseph F., Etowah, Tenn. Seesaw. No. 1,363,097; Dec. 21; v. 281; p. 517.

Duncan, Joseph S., assignor to Addressograph Company, Chicago, Ill. Ejector for printing-machines. No. 1,353,899; Sept. 28; v. 278; p. 567.

Duncan, Levi H., Ben Avon, Pa. Valve-chest. No. 1,340,652; May 18; v. 274; p. 509.

Duncan, Raymond, New York, N. Y. Stop mechanism for talking-machines. No. 1,346,082; July 6; v. 276; p. 149.

Duncan, Raymond, Chicago, Ill. Means for controlling the operation of talking-machines. No. 1,357,037; Oct. 26; v. 279; p. 648.

Duncan, Raymond, Elmira, N. Y. Means for controlling the operation of talking-machines. No. 1,357,038; Oct. 26; v. 279; p. 648.

Duncan, Wayne A., Chicago, Ill. Steam-cooker. No. 1,331,005; Feb. 17; v. 271; p. 412.

Duncan, William M., Alton, Ill. Oil-still. No. 1,342,947; June 8; v. 275; p. 315.

Duncan, William M., Alton, Ill. Sweeping device. No. 1,357,693; Nov. 2; v. 280; p. 93.

Duncan, Xavier B., Newberg, Oreg. Variable-speed device. No. 1,355,948; Oct. 19; v. 279; p. 387.

Duncan, Zeona Z., assignor of one-fourth to D. A. Woods, Stanberry, Mo. Brake for trucks. No. 1,329,960; Feb. 3; v. 271; p. 115.

Duncomb, Wolf H., Spokane, Wash. Direction-indicator. No. 1,349,191; Aug. 10; v. 277; p. 258.

Duncombe, Joseph, Salt Lake City, Utah. Sheep-protector and coyote-exterminator. No. 1,349,665; Aug. 17; v. 277; p. 425.

Duncombe, Tyrrell H., Romeo, Mich. Change-speed-power-transmitting mechanism. No. 1,329,297; Jan. 27; v. 270; p. 580.

Dundas, David, Glasgow, Scotland. Ship's side light or window. No. 1,357,625; Nov. 2; v. 280; p. 80.

Dundon, Patrick F., San Francisco, Calif. Air-heating structure. No. 1,334,741; Mar. 23; v. 272; p. 648.

Dunfield, John D., Petrolia, Ontario, Canada. Shoe-tree. No. 1,353,327; Sept. 21; v. 278; p. 410.

Dunford, William T., New York, N. Y., assignor to Shurloc Elevator Safety Co., Inc. Elevator safety system. No. 1,344,266; June 22; v. 265; p. 701.

Dunham, Bert G. (See Williams, S. B., and Dunham.)

Dunham, Bert G., Hawthorne, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated. Two-wire multiple automatic telephone system. No. 1,339,175; May 4; v. 274; p. 97.

Dunham, Bert G., Hawthorne, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,355,594; Oct. 12; v. 279; p. 278.

Dunham, Charles L., Pennsboro, W. Va. Underreamer. No. 1,348,853; Aug. 10; v. 277; p. 192.

Dunham, Charles W., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Grade-crossing signal. No. 1,330,064; Feb. 10; v. 271; p. 166.

Dunham, Charles W., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electroconducting-coil. No. 1,340,027; May 11; v. 274; p. 334.

Dunham Company, The. (See Griswold, R. H., and Hammond, assignors.)

Dunham Company, The. (See Powell, Earl J., assignor.)

Dunham Company, The. (See Woodin, C. K., Karl, and Kolczynski, assignors.)

Dunham, Delbert F., Los Angeles, Calif. Valve-grinder. No. 1,342,375; June 1; v. 275; p. 148.

Dunham, George H., Orange, Tex. Combined comb, brush, and mirror. No. 1,333,907; Mar. 16; v. 272; p. 439.

Dunham, George W., Detroit, Mich., assignor to Graham Brothers, Evansville, Ind. Stabilizer. No. 1,327,811; Jan. 13; v. 270; p. 236.

Dunham, George W., Detroit, Mich. Engine construction. No. 1,329,587; Feb. 3; v. 271; p. 46.

Dunham, Henry V., Mount Vernon, N. Y. Karaya thickener and making same. No. 1,334,356; Mar. 23; v. 272; p. 571.

Dunham, Henry V., Mount Vernon, N. Y. Dried soluble karaya-gum composition and making. No. 1,334,357; Mar. 23; v. 272; p. 571.

Dunham, Henry V., Mount Vernon, N. Y. Casein composition. No. 1,334,358; Mar. 23; v. 272; p. 571.

Dunham, Henry V., Mount Vernon, N. Y. Stable casein solution and making same. No. 1,347,845; July 27; v. 276; p. 675.

Dunham, Joseph C., Oklahoma, Okla. Window. No. 1,348,127; July 27; v. 276; p. 731.

Dunham, Melbourne K., assignor to The Bastian Blessing Co., Chicago, Ill. Tip for welding-torches. No. 1,330,522; Feb. 10; v. 271; p. 251.

Dunham, Walter E., Chicago, Ill. Packless cock or valve. No. 1,362,986; Dec. 21; v. 281; p. 494.

Dunhill, Alfred, St. James, London, England. Tobacco-pipe. No. 1,341,418; May 25; v. 274; p. 727.

Dunhill, Alfred, London, England. Receptacle for cigar or cigarette holders. No. 1,345,356; July 6; v. 276; p. 6.

Dunhill, Alfred, London, and T. G. Mandeville, Arnold England. Tobacco-pipe, cigar-holder, and the like. No. 1,343,253; June 15; v. 275; p. 438.

Dunigan, Alfred D., Darwin, Okla. Torpedo-guard. No. 1,335,670; Mar. 30; v. 272; p. 878.

Dunkelberger, Lloyd P., Allentown, Pa. Cloth-measuring device. No. 1,337,891; Apr. 20; v. 273; p. 549.

Dunkin, John B., Bellingham, Wash. Framing-machine. No. 1,356,490; Oct. 19; v. 279; p. 494.

Dunkley Company. (See Dunkley, Samuel J., assignor.)

Dunkley, Melville E., Kalamazoo, Mich. Fruit-peeling machine. No. 1,341,738; June 1; v. 275; p. 25.

Dunkley, Samuel J., assignor to Dunkley Company, Kalamazoo, Mich. Machine for halving or splitting peaches. No. 1,329,755; Feb. 3; v. 271; p. 76.

Dunkley, Samuel J., assignor to Dunkley Company, Kalamazoo, Mich. Pitting-knife. No. 1,353,328; Sept. 21; v. 278; p. 410.

Dunkley, Samuel J., assignor to Dunkley Company, Kalamazoo, Mich. Water-spray section of peeling-machines. No. 1,362,930; Dec. 21; v. 281; p. 483.

Dun Lany, William P., assignor to Sears, Roebuck and Company, Chicago, Ill. Sample-affixing machine. No. 1,327,664; Jan. 13; v. 270; p. 208.

Digitized by Google

Dun Lany, William P., assignor to Sears, Roebuck and Company, Chicago, Ill. Machine for affixing samples to sheets. No. 1,327,665; Jan. 13; v. 270; p. 208.
Dun Lany, William P., Maywood, Ill., assignor to American Can Company, New York, N. Y. Coin-controlled package-dispensing apparatus. No. 1,336,514; Apr. 13; v. 273; p. 212.
Dun Lany, William P., Oak Park, Ill., assignor to American Can Company, New York, N. Y. Package-dispensing apparatus. No. 1,356,345; Oct. 19; v. 279; p. 466.
Dunlap, Charles M., South Pasadena, Calif. Ladder-bracket. No. 1,332,385; Mar. 2; v. 272; p. 41.
Dunlap, Frederick L., Chicago, Ill., and R. A. Kuever, Iowa City, Iowa. Treating fruit-juices. No. 1,338,684; May 4; v. 274; p. 7.
Dunlap, John, Camden, S. C. Footrest. No. 1,343,119; June 8; v. 275; p. 349.
Dunlap, Matthew E. (See Sponsler, O. L., Dunlap, and Henning.)
Dunlap, Matthew E., Madison, Wis., assignor to United States of America. Coating wood. No. 1,329,381; Feb. 3; v. 271; p. 7.
Dunlop, Robert R., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Electric controller. No. 1,348,397; Aug. 3; v. 277; p. 53.
Dunlop Rubber Company, The. (See Keegan, Frank J., assignor.)
Dunlop Rubber Company, The. (See Macbeth, C., and Hardeman, assignors.)
Dunlop Rubber Company, The. (See Macbeth, C., and Jones, assignors.)
Dunlop Rubber Company, The. (See Macbeth, C., and Sullivan, assignors.)
Dunlop Rubber Company, The. (See Macbeth, Colin, assignor.)
Dunlop Rubber Company, The. (See Twiss, Douglas F., assignor.)
Dunlop Rubber Company, The. (See Worthington, J. V., and Hyde, assignors.)
Dunlop Rubber Company, Limited, The. (See Macbeth, Colin, assignor.)
Dunman, Nesbit M. (See Abercrombie and Dunman.)
Dunn, Andrew C., Minneapolis, Minn. Shock-absorber. No. 1,351,843; Sept. 7; v. 278; p. 26.
Dunn, Charles, Brooklyn, N. Y. Self-filling mountain-pen. No. 1,359,880; Nov. 23; v. 280; p. 675.
Dunn, David, Philadelphia, Pa. Safety milk-bottle support and sanitary protector therefor. No. 1,336,826; Apr. 13; v. 273; p. 273.
Dunn, Edmund L. (See Dunn, Louis, assignor.)
Dunn, Edwin S. (See Leisen, F. J., and Dunn.)
Dunn, Frank P., Anderson, Ind., assignor to Toledo Scale Company, Toledo, Ohio. Weighing-scale. No. 1,339,440; May 11; v. 274; p. 222.
Dunn, Guy A. (See Eldridge, J. J., and Dunn.)
Dunn, Lillian M., Camas, Wash. Folding receptacle. No. 1,331,006; Feb. 17; v. 271; p. 412.
Dunn, Louis, assignor to E. L. Dunn, St. Paul, Minn. Safety device for point-switches. No. 1,337,054; Apr. 13; v. 273; p. 317.
Dunn, Louis, St. Paul, Minn. Safety device for point-switches. No. 1,346,597; July 13; v. 276; p. 312.
Dunn & McCarthy. (See Marshall, James F., assignor.)
Dunn, Patrick J., Holland, Ohio. Vacuum street-cleaning machine. No. 1,356,272; Oct. 19; v. 279; p. 452.
Dunn, Ralph M., Chicago, Ill. Baby-crib and stand. No. 1,362,987; Dec. 21; v. 281; p. 495.
Dunn, Thomas J., Jersey City, N. J. Telegraph instrument. No. 1,338,497; Apr. 27; v. 273; p. 733.
Dunn, William, Seattle, Wash. Nut-lock. No. 1,334,359; Mar. 23; v. 272; p. 571.
Dunn, William, Elk, Wyoming. Gearless variable-speed transmission. No. 1,343,254; June 15; v. 275; p. 438.
Dunn, William J., Montreal, Quebec, Canada. Fountain-brush. No. 1,335,671; Mar. 30; v. 272; p. 878.
Dunn, William W., Henderson, N. C., and J. H. Beasley, Norfolk, Va., assignors to Seward Trunk and Bag Company, Petersburg, Va. Hanger-retaining device for wardrobe-trunks. No. 1,344,872; June 29; v. 275; p. 885.
Dunner, Julius, Brooklyn, N. Y. Mold-support. No. 1,330,625; Feb. 10; v. 271; p. 270.
Dunner, Julius, Brooklyn, N. Y. Stuffing-machine. No. 1,330,626; Feb. 10; v. 271; p. 270.
Dunning, Eliza A., Chicago, Ill. Corset and fastener therefor. No. 1,357,694; Nov. 2; v. 280; p. 93.
Dunning, Louis, Bloomington, Ill. Safety device for automobiles. No. 1,356,053; Oct. 19; v. 279; p. 408.
Dunning, Raymond P., assignor to General Electric Company, Schenectady, N. Y. Electric heating apparatus. No. 1,362,609; Dec. 21; v. 281; p. 421.
Dunning, Raymond P., assignor to General Electric Company, Schenectady, N. Y. Electric heating apparatus. No. 1,362,610; Dec. 21; v. 281; p. 422.
Du Nolly, Pierre L., New York, N. Y. Device for moving fluids. No. 1,335,672; Mar. 30; v. 272; p. 878.
Dunsford, Emeis R., Alliance, Ohio. Machine for feeding sand to molding-flasks. No. 1,329,459; Feb. 3; v. 271; p. 22.
Dunstan, Samuel J., Barrapoort, Victoria, Australia. Bag closure or mouth clamp. No. 1,356,133; Oct. 19; v. 279; p. 424.
Dunstan, Wayne E., assignor to R. Hagen, Dayton, Ohio. Tire-carrier for vehicles. No. 1,343,964; June 22; v. 275; p. 643.
Duntley, John W., Chicago, Ill. Hydropneumatic fuel-mixing apparatus. No. 1,357,039; Oct. 26; v. 279; p. 648.
Dunton, George. (See Towner, H. F., and Dunton.)
Dunwoody, John J., New York, N. Y. Combination ironing-board and chair. No. 1,333,392; Mar. 9; v. 272; p. 282.
Duodo, Arturo, Genoa, Italy. Evaporating and distilling apparatus. No. 1,353,521; Sept. 21; v. 278; p. 448.
Duparquet, Hout & Moneuse. (See Rice, Anson S., assignor.)
Du Pasquier, Arthur, and J. M. L. Slater, Chester, England, assignors to Westinghouse Electric and Manufacturing company. Automatic circuit-interrupting device. No. 1,347,908; July 27; v. 276; p. 688.
Dupler, John C., Marietta, Pa. Antiskidding device. No. 1,353,329; Sept. 21; v. 278; p. 410.
Dupler, Raymond R., Toledo, Ohio. Wheeled harrow. No. 1,327,424; Jan. 6; v. 270; p. 101.
Duplex Engine Governor Company. (See Douglas, Theodore, assignor.)
Duplex Hanger Company, The. (See Dryfoos, Sidney L., assignor.)
Duplex Printing Press Company. (See Bechman, Henry F., assignor.)
Duplex Tractor Company. (See Robinson, Lloyd A., assignor.)
Duplex Truck Company. (See Thomas, George J., assignor.)
Duplexalite Corporation. (See White, Ernest C., assignor.)
Du Pont, Benjamin F., Dania, Fla., assignor of three-tenths to W. F. Whitman, Chicago, Ill., and three-tenths to B. E. Rainey, Miami, Fla. Excavating-machine. No. 1,359,237; Nov. 16; v. 280; p. 502.
Du Pont, E. I., de Nemours and Company. (See Andreau, Roland L., assignor.)
Du Pont, E. I., de Nemours & Company. (See Booge, James E., assignor.)
Du Pont, E. I., de Nemours & Company. (See Bryan and Swint, assignors.)
Du Pont, E. I., de Nemours and Company. (See Calvert, Robert P., assignor.)
Du Pont, E. I., de Nemours & Company. (See Casey Kellogg K. V., assignor.)
Du Pont, E. I., de Nemours and Company. (See Caskey, Samuel S., assignor.)
Du Pont, E. I., de Nemours, and Company. (See Clark, Charles T., assignor.)
Du Pont, E. I., de Nemours and Company. (See Connable, Frank L., assignor.)
Du Pont, E. I., de Nemours & Company. (See Cope, Willard C., assignor.)
Du Pont, E. I., de Nemours & Company. (See Dodge, Barnett F. assignor.)
Du Pont, E. I., de Nemours & Company. (See Emhardt, John C., assignor.)
Du Pont, E. I., de Nemours & Company. (See Flaherty Edmund M., assignor.)
Du Pont, E. I., de Nemours, & Company. (See Henning, Clarence I. B., assignor.)
Du Pont, E. I., de Nemours & Company (See Holmes, Walter C., assignor.)
Du Pont, E. I., de Nemours and Company. (See Houlehan, Arthur E., assignor.)
Du Pont, E. I., de Nemours and Company. (See Hudson Walter G., assignor.)
Du Pont, E. I., de Nemours & Company. (See Kessler, Johannes M., assignor.)
Du Pont, E. I., de Nemours & Company. (See Kirkpatrick, Littleton, assignor.)
Du Pont, E. I., de Nemours & Company. (See Marshall, John, assignor.)
Du Pont, E. I., de Nemours & Company. (See Priest, George W., assignor.)
Du Pont, E. I., de Nemours & Company. (See Schulte, Louis, assignor.)
Du Pont, E. I., de Nemours, and Company. (See Stowe, Floyd D., assignor.)
Du Pont, E. I., de Nemours and Company. (See Wardenburg, Frederic A., assignor.)
Du Pont, E. I., de Nemours and Company. (See Welch, Frank P., assignor.)
Dupont, E. I., de Nemours & Company. (See Woodbridge, R. G., Jr., Casey, and Henning.)
Du Pont, E. I., de Nemours & Company. (See Woodbridge, Richard G., Jr., assignor.)
Du Pont, E. I., de Nemours and Company. (See Woodbury, Clifford A., assignor.)
Du Pont, Eleuthere P., Montchanin, Del. Oil-strainer. No. 1,352,120; Sept. 7; v. 278; p. 79.
Du Pont, Ernest. (See Du Pont, Francis I. and E.)
Du Pont, Ernest, Wilmington, Del. Recovering solvent from smokeless powder. No. 1,334,360; Mar. 23; v. 272; p. 571.
Du Pont Fabrikoid Company. (See Arnold, Charles E., assignor.)
Du Pont Fabrikoid Company. (See Lord, George F., assignor.)

Digitized by Google

Du Pont Fabrikoid Company. (See Lynch, James, assignor.)
Du Pont, Francis I., Wilmington, Del. Explosive propellent powder. No. 1,341,207; May 25; v. 274; p. 687.
Du Pont, Francis I., assignor to Delaware Chemical Engineering Company, Wilmington, Del. Projectile-velocity-measuring chronograph. No. 1,357,281; Nov. 2; v. 280; p. 16.
Du Pont, Francis I. and E., Wilmington, Del. Perforated pellet of explosive powder and making same. No. 1,352,121; Sept. 7; v. 278; p. 79.
Dupont, Francis M., and G. A. Hanke, Milwaukee, Wis. Making calcium oxalate. No. 1,349,947; Aug. 17; v. 277; p. 478.
Dupont, Jean G., Chicago, Ill. Bonnet. No. 1,350,712; Aug. 24; v. 277; p. 674.
Dupont, Omer. (See Sargery, J. A., and Dupont.)
Dupont, Paul, Paris, France. Enameling and annealing furnace. No. 1,335,279; Mar. 30; v. 272; p. 804.
Du Pray, Maglois P., Trenton, N. J. Weaving multi-ply tubular fabric and apparatus therefor. No. 1,357,967; Nov. 9; v. 280; p. 207.
Du Pray, Maglois P., Trenton, N. J. Draw-off mechanism for looms. No. 1,357,968; Nov. 9; v. 280; p. 208.
Du Pray, Maglois P., Trenton, N. J. Shuttle. No. 1,357,969; Nov. 9; v. 280; p. 208.
Du Prey, Hartwell A. (See Wade, J., Markin, and Du Prey.)
Dupuis, Noel, Olympia, Wash. Bookbinder. No. 1,330,852; Feb. 17; v. 271; p. 381.
Du Puy, Alfred, Oak Park, Ill. Nut-lock. No. 1,348,787; Aug. 3; v. 277; p. 126.
Dupuy, Arthur O., assignor of one-half to E. W. Farr, Cleveland, Ohio. Pallet-conveyer. No. 1,357,315; Nov. 2; v. 280; p. 22.
Dupuy, Arthur O., assignor of one-half to E. W. Farr, Cleveland, Ohio. Cable, chain, or analogous drive. No. 1,357,316; Nov. 2; v. 280; p. 22.
Dupuy, Arthur O., assignor of one-half to E. W. Farr, Cleveland, Ohio. Brick-making machine. No. 1,363,853; Dec. 28; v. 281; p. 704.
Dupuy, René J., assignor to Compagnie Generale D'Electricite, Paris, France. Steam-turbine. No. 1,336,827; Apr. 13; v. 273; p. 273.
Duquette, Julien, Springfield, Mass. Starting device for engines. No. 1,356,856; Oct. 26; v. 279; p. 613.
Durable Box Co. (See Buehl, J. L., and Fritze, assignors.)
Durable Box Co. (See Kenniker, Nicholas O., assignor.)
Durable Box Co. (See Kenniker, N. O., and Fritze, assignors.)
Durand, Louis, Lawrence, Mass. Lug-strap connection. No. 1,337,055; Apr. 13; v. 273; p. 317.
Durand Steel Locker Company. (See Vance, Walter N., assignor.)
Durant Manufacturing Company. (See Wetmore, Charles P., assignor.)
Durant, Samuel E. (See Weeks, Helen, assignor.)
Durant, Samuel E., New York, N. Y. Ironing-support. No. 1,342,278; June 1; v. 275; p. 131.
Durant, William H., Somerville, Mass. Door-controller. No. 1,331,329; Feb. 17; v. 271; p. 470.
Duratex Company, The. (See Wilson, John A., assignor.)
Durbin, David W., Bridgeville, Pa. Shock-absorber. No. 1,351,558; Aug. 31; v. 277; p. 902.
Durdle, Oswald, assignor to Osram-Robertson Lamp Works Limited, London, England. Means for supporting electrodes in ionic tubes. No. 1,343,551; June 15; v. 275; p. 496.
Duresen, Andrew, Minneapolis, Minn. Two-wheeled motor-vehicle. No. 1,339,554; May 11; v. 274; p. 244.
Durgin, Edgar R., assignor to New Jersey Optical Co., Newark, N. J. Eyeglass-mounting. No. 1,347,998; July 27; v. 276; p. 705.
Durham, Charles, Chicago, Ill. Projectile. No. 1,327,531; Jan. 6; v. 270; p. 122.
Durham, Charles L., Salina, Kans. Tire-treating machine. No. 1,341,500; May 25; v. 274; p. 743.
Durham, Clifton A., assignor of two-fifths to A. W. Green, Macon, Mo. Hanger. No. 1,332,618; Mar. 2; v. 272; p. 85.
Durham Duplex Razor Company. (See Sheehan, Thomas C., assignor.)
Durgin, Edgar R., assignor to New Jersey Optical Co., Newark, N. J. Rim for eyeglasses and spectacles. No. 1,335,942; Apr. 6; v. 273; p. 45.
Durham Novelty Company. (See Tatum, James W., assignor.)
Durkee, Charles S., Grasmere, N. Y. Automatic self-contained fire-extinguisher. No. 1,345,435; July 6; v. 276; p. 21.
Durkee, Frederic J., Saginaw, Mich. Fencepost. No. 1,333,842; Mar. 16; v. 272; p. 427.
Durning, Charles, Philadelphia, Pa. Automobile rear signal. No. 1,356,814; Oct. 26; v. 279; p. 604.
Durabilt Corset Company. (See Wright, Royal J., assignor.)
Dusinberre, George B., Cleveland, Ohio, assignor, by mesne assignments, to R. S. Mueller. Clip. No. 1,356,491; Oct. 19; v. 279; p. 494.
Durr, Ernest, U. S. Navy. Rotary internal-combustion engine. No. 1,343,316; June 15; v. 275; p. 450.
Dürsteler, Wilhelm, assignor to Weidmann Dyeing Co., Ld., Thalwil, Switzerland. Apparatus for treating hanks of textile fabrics with liquids. No. 1,329,166; Jan. 27; v. 270; p. 556.
Duscher, Ernest, La Crosse, Wis., assignor, by mesne assignments, to Printograph Manufacturing Co., St. Paul, Minn. Filling-in attachment for printing-machines. No. 1,343,170; June 8; v. 275; p. 359.
Dusha, Paul F., New York, and A. Feyk, Bohemia, assignors to Holub Dusha Company, New York, N. Y. Button-holding chuck. No. 1,332,817; Mar. 2; v. 272; p. 123.
Dusha, Paul F., New York, and A. Feyk, Bohemia, N. Y., assignors to Holub-Dusha Company, New York, N. Y. Pearl-button machine. No. 1,343,042; June 8; v. 275; p. 333.
Dushman, Saul, Scotia, N. Y., assignor to General Electric Company. Ionization-manometer. No. 1,334,143; Mar. 16; v. 272; p. 485.
Dustin, Edgar R. (See Buckle, John V., assignor.)
Dustin-Roman Auto Top Company. (See Quintin, John C., assignor.)
Dustless Victory Sieve Company. (See Goddard, Walter F., assignor.)
Duston, Ernest W., assignor to The Blake & Johnson Company, Waterbury, Conn. Collapsible spool. No. 1,346,812; July 20; v. 276; p. 414.
Duston, Ernest W., assignor to The Blake & Johnson Company, Waterbury, Conn. Rolling-mill bridle. No. 1,352,587; Sept. 14; v. 278; p. 204.
Dusoevoir, Julius, Oakland, and J. R. Welch, San Jose, Calif. Engine. No. 1,329,514; Feb. 3; v. 271; p. 33.
Dussart, Louis, Kincaid, Ill. Rope or strap quick attaching and detaching device. No. 1,333,582; Mar. 9; v. 272; p. 318.
Dussart, Louis, Kincaid, Ill. Lifting-jack. No. 1,333,583; Mar. 9; v. 272; p. 318.
Dussart, Louis, Kincaid, Ill. Brace for slide rails. No. 1,333,584; Mar. 9; v. 272; p. 319.
Dusuzeau, René, assignor to Societe Des Moteurs Salmson (Systeme Canton-Unne), Billancourt, France. Double steering and unclutching apparatus for avions. No. 1,331,628; Feb. 24; v. 271; p. 548.
Dusuzeau, René G. L., assignor to Societe Des Moteurs Salmson (Systeme Canton-Unne), Billancourt, France. Magneto. No. 1,356,975; Oct. 26; v. 279; p. 636.
Dussa, John, Brooklyn, N. Y. Device for trimming linotype-slugs. No. 1,361,030; Dec. 7; v. 281; p. 10.
Dutcher, Charles, Seattle, Wash. Milk-bottle handle. No. 1,338,660; Apr. 27; v. 273; p. 763.
Dutcher, Pierpont E., Milwaukee, Wis. Self-operating latch. No. 1,338,219; Apr. 27; v. 273; p. 681.
Dutcher, Pierpont E., Milwaukee, Wis. Mechanical trip for excavators. No. 1,356,520; Oct. 26; v. 279; p. 547.
Dutchess Tool Company. (See Van Houten, Frank H., Jr., assignor.)
Dutemple, William R., Auburn, R. I. Oil-cup holder. No. 1,328,271; Jan. 20; v. 270; p. 358.
Dutreux, Auguste, assignor to Societe Anonyme pour l'Eclairage Electrique des Vehicules, Issy Les Moulineaux, France. Electric starting system for internal-combustion engines. No. 1,352,794; Sept. 14; v. 278; p. 246.
Dutro, Orville V., and A. S. Burroughs, Spokane, Wash. Punching-machine. No. 1,348,788; Aug. 3; v. 277; p. 127.
Dutro, Orville V. and A. S. Burroughs, Spokane, Wash. Winding mechanism for printing-presses. No. 1,353,948; Sept. 28; v. 278; p. 577.
Dutt, Eric E., Jabalpur, India. Manufacture of alumina. No. 1,332,113; Feb. 24; v. 271; p. 639.
Dutt, Eric E., Jabalpur, India. Manufacture of potassium chlorid. No. 1,332,114; Feb. 24; v. 271; p. 639.
Dutt, Eric E., Jabalpur, India. Manufacture of alumina. No. 1,332,115; Feb. 24; v. 271; p. 639.
Dutton, Abraham L., Otis, Colo. Leveling device for threshing-machines, &c. No. 1,328,370; Jan. 20; v. 270; p. 378.
Dutton, Clarence B. (See Rittman and Dutton.)
Dutton, Fred G., Onondaga, N. Y. Theft-preventing device for motor-cars. No. 1,335,160; Mar. 30; v. 272; p. 783.
Dutton, Frederick O. (See Lewis, A. A., and Dutton.)
Duttweiler, Albert M., Cambridge City, Ind. Heating device. No. 1,341,788; June 1; v. 275; p. 35.
Duvall, Adele, Chicago, Ill. Underwear. No. 1,352,944; Sept. 14; v. 278; p. 275.
Duvall, Charles C., Cleveland, Ohio. Rain-alarm. No. 1,329,382; Feb. 3; v. 271; p. 7.
Duvall, Flora, Chicago, Ill. Strainer. No. 1,327,532. Jan. 6; v. 270; p. 122.
Duvall, George W., and N. H. Beebe, assignors to Modern Broom Machinery Company, Davenport, Iowa. Wood-shaping machine. No. 1,331,250; Feb. 17; v. 271; p. 456.
Duvall, George W., N. H. Beebe, and H. E. Smith, assignors to Modern Broom Machinery Company, Davenport, Iowa. Combined evener and cutter. No. 1,337,056; Apr. 13; v. 273; p. 317.
Duvall, William J., Washington, D. C. Antiskid attachment. No. 1,341,789; June 1; v. 275; p. 35.

Digitized by Google

Duveck, Solomon E., Montreal, Quebec, Canada. Display device. No. 1,355,132; Oct. 12; v. 279; p. 188.
Duvendack, Henry W. (See Blake, William F., assignor.)
Dvorak, Emil, Ocheyedan, Iowa. Steering column and wheel. No. 1,330,178; Feb. 10; v. 271; p. 187.
Dwiggins Wire Fence Company. (See Van Deventer and Swank, assignors.)
Dwillard, Henry J., and A. B. Shawd, Kalamazoo, Mich. Lock or safety device for radiator-caps or the like. No. 1,356,912; Oct. 26; v. 279; p. 623.
Dwyer, David A., London, England. Washing-machine. No. 1,342,624; June 8; v. 275; p. 250.
Dwyer, Joseph F., Seattle, Wash. Device for dispensing tickets. No. 1,332,386; Mar. 2; v. 272; p. 41.
Dwyer, Joseph F., Seattle, Wash. Ticket-dispensing machine. No. 1,334,653; Mar. 23; v. 272; p. 626.
Dwyer, Joseph, Hamilton, Ontario, Canada. Miter-cutting device. No. 1,339,747; May 11; v. 274; p. 281.
Dwyer, Leo E. (See Bennett, George W., assignor.)
Dwyer, William C., Auburn, N. Y., assignor to International Harvester Company. Disk harrow. No. 1,336,687; Apr. 13; v. 273; p. 246.
Dwyer, William O., assignor to General Electrical Company, Pittsfield, Mass. Stationary induction apparatus. No. 1,352,360; Sept. 7; v. 278; p. 124.
Dyckman, Stephen W., New York, N. Y. Radiator. No. 1,339,813; May 11; v. 274; p. 293.
Dyer, Charles, Detroit, Mich. Shock-absorbing steering mechanism. No. 1,349,415; Aug. 10; v. 277; p. 302.
Dyer, Frank L., Montclair, N. J. Talking-machine. No. 1,326,920; Jan. 6; v. 270; p. 7.
Dyer, Guy S., Layton, Utah. Leaching-machine. No. 1,353,463; Sept. 21; v. 278; p. 436.
Dyer, H. B. (See Smith, David M., assignor.)
Dyer, Henry C., New York, N. Y. Combined shoe and puttee. No. 1,361,755; Dec. 7; v. 281; p. 155.
Dyer, John B. (See Hill, Hugh, assignor.)
Dyer, Leonard H., Greenwich, Conn. Internal-combustion engine. No. 1,339,176; May 4; v. 274; p. 97.
Dyer, Leonard H., Greenwich, Conn. Power plant. No. 1,339,177; May 4; v. 274; p. 97.
Dyer, Newell V., Holbrook, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Skiving-machine. No. 1,327,028; Jan. 6; v. 270; p. 28.
Dyer, Newell V., Holbrook, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Skiving-machine. No. 1,342,430; June 8; v. 275; p. 213.
Dyer, Newell V., Holbrook, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for marking materials. No. 1,360,379; Nov. 30; v. 280; p. 841.
Dyer, Robert J., Oakland, assignor of one-third to H. B. Williams, San Francisco, Calif. Interlocking wall-block. No. 1,350,490; Aug. 24; v. 277; p. 631.
Dyer, Walter C., assignor to Buda Company, Chicago, Ill. Safety control mechanism. No. 1,360,508; Nov. 30; v. 280; p. 867.
Dyer, William H. (See Robertson, S. M., and Dyer.)
Dyett, James H., assignor to Hard Manufacturing Co., Buffalo, N. Y. Folding cot. No. 1,360,201; Nov. 23; v. 280; p. 738.
Dykeman, Louis E., New Orleans, La. Candy-making machine. No. 1,343,120; June 8; v. 275; p. 349.
Dyktor, Stanislas, New York, N. Y. Razor-stropper. No. 1,334,234; Mar. 16; v. 272; p. 501.
Dyneto Electric Company. (See Doman, Albert E., assignor.)
Dyrssen, Waldemar, New York, N. Y. Machine for charging furnaces. No. 1,329,588; Feb. 3; v. 271; p. 46.
Dysart, Marby P., Huntington, Tex. Window attachment. No. 1,339,178; May 4; v. 274; p. 98.
Dysart, William L., and C. H. Lanius, Harlowton, Mont. Auto-tire scope. No. 1,338,615; Apr. 27; v. 273; p. 754.
Dysart, William L., and J. F. O'Hanlon, Harlowton, Mont. Inspection-lamp. No. 1,363,098; Dec. 21; v. 281; p. 517.
Dyson, Alfred H., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,334,294; Mar. 23; v. 272; p. 558.
Dyson, Alfred H., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,352,660; Sept. 14; v. 278; p. 219.
Dyson, Edward J., Colorado Springs, Colo. Snowplow. No. 1,344,794; June 29; v. 275; p. 871.
Dyson, Herbert K., London, England. Concrete bar. No. 1,362,931; Dec. 21; v. 281; p. 484.
Dyson, J. B., & Son. (See Payne, George, assignor.)
Dzimitowicz, Waclaw, Pittsburgh, Pa. Baby-walker. No. 1,326,921; Jan. 6; v. 270; p. 7.
Dzink, Edmond, Toledo, Ohio. Toothpick. No. 1,355,037; Oct. 5; v. 279; p. 117.
E. & K. Manufacturing Company. (See Everett, William R., assignor.)
E. Z. Waist Co. (See Haight, Everest D., assignor.)
Eaches, Amos W., Washington, D. C. Mold for columns. No. 1,331,096; Feb. 17; v. 271; p. 429.
Eachus, Iredell, assignor to The Macbeth Arc Lamp Company, Inc., Philadelphia, Pa. Arc-lamp casing. No. 1,344,938; June 29; v. 275; p. 898.
Eader, John B. (See Cashman, Clarence G., assignor.)
Eades, Charles V., Chicago, Ill. Building construction. No. 1,334,600; Mar. 23; v. 272; p. 616.
Eades, Rodger, Winchester, Ky. Hemp-brake. No. 1,327,533; Jan. 6; v. 270; p. 122.
Eads, Oscar, Okmulgee, Okla. Inking-plate. No. 1,344,026; June 22; v. 275; p. 655.
Eagar, George, Dunboyne, Ontario, Canada. Gas-saver. No. 1,339,441; May 11; v. 274; p. 222.
Eager, Frederick W. (See Barnard, W. H., and Eager.)
Eagle Pencil Company. (See Boman, Claes W., assignor.)
Eagle Puncture Proof Tire & Wheel Co. (See Harrigan, John E., assignor.)
Eagle Wagon Works, The. (See Underhill, W. A., and Avery, assignors.)
Eaglesfield, Robert D. (See Gathman, M. B., and Eaglesfield.)
Eames, George M., and J. S. Finch, Bridgeport, Conn., assignors to The Singer Manufacturing Company. Embroidery-sewing machine. No. 1,338,074; Apr. 27; v. 273; p. 654.
Eames, Robert, Detroit, Mich. Calipers. No. 1,328,651; Jan. 20; v. 270; p. 430.
Eanes, Arthur R., Jr., Draper, N. C. Pick take-up shuttle. No. 1,338,820; May 4; v. 274; p. 82.
Eanes, Louis T., Selma, Ala. Door-support. No. 1,334,442; Mar. 23; v. 272; p. 587.
Earl, Charles M., Detroit, Mich. Sealing-valve for carbonated-beverage containers. No. 1,339,555; May 11; v. 274; p. 244.
Earl, Charles M., Detroit, Mich. Dispensing device for carbonated beverages. No. 1,357,228; Nov. 2; v. 280; p. 6.
Earl, Emmit T. (See Bond, O. E., and Earl.)
Earl, Geo. G., *et al.* (See Wood, Albert B., assignor.)
Earl, Henry E., Indianapolis, Ind. Automatic weighing-scale. No. 1,339,326; May 4; v. 274; p. 124.
Earl, Schuyler H., *et al.* (See Bullock, E. W., Earl, and Bryan.
Earle, Frederick T., New York, N. Y. Lock-switch. No. 1,356,430; Oct. 19; v. 279; p. 482.
Earle Gear & Machine Company. (See Pitman, Robert A., assignor.)
Earle, H. S., Manufacturing Co. (See Earle, Horatio S., assignor.)
Earle Hardware Manufacturing Company. (See Heintzelman, Andrew C., assignor.)
Earle, Horatio S., assignor to H. S. Earle Manufacturing Co., Detroit, Mich. Handle for tools. No. 1,343,552; June 15; v. 275; p. 497.
Earle, Horatio S., Detroit, Mich. Sand-screen. No. 1,360,906; Nov. 30; v. 280; p. 944.
Earle, Robert W., assignor to The Dover Manufacturing Company, Dover, Ohio. Manufacturing electrical insulating and heat-conducting materials. No. 1,358,366; Nov. 9; v. 280; p. 287.
Earley, James A., Washington College, and J. L. Humphrey, Telford, Tenn. Apparatus for dismembering and assembling rolling-stock. No. 1,341,501; May 25; v. 274; p. 743.
Earley, John J., Washington, D. C. Flexible joint for stuccoed buildings. No. 1,355,756; Oct. 12; v. 279; p. 309.
Early, Chas. W. (See Barnes, Benie A., assignor.)
Early, William F., Marion, N. C. Flexible ladder. No. 1,328,037; Jan. 13; v. 270; p. 278.
Earney, John D., Salt Lake City, Utah. Triple-gap spark-plug. No. 1,342,431; June 8; v. 275; p. 213.
Earnheart, Lucien T., Saunemin, Ill., assignor to Safety First Devices Company. Air-valve structure. No. 1,361,570; Dec. 7; v. 281; p. 119.
Earp, Samuel, Wallasey, England. Artificial tooth. No. 1,342,376; June 1; v. 275; p. 148.
Earp-Thomas, Henry W., New York, N. Y. Attachment for penholders. No. 1,360,380; Nov. 30; v. 280; p. 841.
East, Charles M., Boyertown, Pa. Illuminating attachment for pens or pencils. No. 1,341,267; May 25; v. 274; p. 697.
Eastern Foundry and Machine Company. (See Smith, Harry E., assignor.)
Easterday, Philip S., Portland, Oreg. Reinforced-concrete culvert. No. 1,332,887; Mar. 2; v. 272; p. 41.
Eastern Manufacturing Company. (See Callan, John G., assignor.)
Eastern Manufacturing Company. (See Ladd, F. C., and Neal, assignors.)
Eastern Railway Signal Company, The. (See Schooley, Edward A., assignor.)
Eastern Tool & Mfg. Company. (See Anderson, Carl E., assignor.)
Eastern Tool & Manufacturing Company. (See Peterson, Carl E., assignor.)
Easting, Charles A., Birmingham, England. Wind-screen for motorcycle side cars. No. 1,343,440; June 15; v. 275; p. 474.
Eastlake, Lewis S., Chicago, Ill. Making lubricating-oils. No. 1,352,502; Sept. 14; v. 278; p. 187.
Eastman, Ernest A., Dayton, Ohio. Concrete construction. No. 1,344,623; June 29; v. 275; p. 837.

Digitized by Google

Eastman, James H., Detroit, Mich. Electrotherapeutic apparatus. No. 1,345,537; July 6; v. 276; p. 41.
Eastman Kodak Company. (See Barnes, F. W., and Allen, assignors.)
Eastman Kodak Company. (See Barnes, Frederick W., assignor.)
Eastman Kodak Company. (See Becker, Joseph, assignor.)
Eastman Kodak Company. (See Bordigion, John, assignor.)
Eastman Kodak Company. (See Capstaff, John G., assignor.)
Eastman Kodak Company. (See Carroll, Stewart J., assignor.)
Eastman Kodak Company. (See Clarke, Hans T., assignor.)
Eastman Kodak Company. (See Fallesen, G. J., and Farley, assignors.)
Eastman Kodak Company. (See Fohner, William F., assignor.)
Eastman Kodak Company. (See Folmer, William F., assignor.)
Eastman Kodak Company. (See Gaisman, Henry J., assignor.)
Eastman Kodak Company. (See Kroedel, Robert, assignor.)
Eastman Kodak Company. (See Love, A. F., and Nicoletti, assignors.)
Eastman Kodak Company. (See Lovejoy, Frank W., assignor.)
Eastman Kodak Company. (See Luboshez, Nahum E., assignor.)
Eastman Kodak Company. (See Marks, Paul J., assignor.)
Eastman Kodak Company. (See Oxley, Walter T., assignor.)
Eastman Kodak Company. (See Parkinson, William J., assignor.)
Eastman Kodak Company. (See Riddell, W. A., and Pirwitz, assignors.)
Eastman Kodak Company. (See Robertson, J. A., and Tierney, assignors.)
Eastman Kodak Company. (See Ross, Frank E., assignor.)
Eastman Kodak Company. (See Seel, Paul C., assignor.)
Eastman Kodak Company. (See Sheppard, Samuel E., assignor.)
Eastman Kodak Company. (See Snyder, Lloyd E., assignor.)
Eastman Kodak Company. (See Underwood, Ernest E., assignor.)
Eastman, Lester C., Silverton, Oreg. Rural mail-box. No. 1,332,818; Mar. 2; v. 272; p. 123.
Easton, Frank A., assignor of one-third to J. R. Dibble. Bakersfield, Calif. Pressure-correcting device for high-pressure gas-meters. No. 1,355,075; Oct. 5; v. 279; p. 124.
Eastwood, Arthur W., Alden, N. Y. Fuel-heating device. No. 1,332,327; Mar. 2; v. 272; p. 29.
Eastwood, Benjamin, Company. (See Zeedyk, William, assignor.)
Eastwood, Rawdon, Liscard, England. Automobile and like vehicle. No. 1,331,745; Feb. 24; v. 271; p. 570.
Eastwood Wire Manufacturing Company. (See Joule, J., and Coups, assignors.)
Eaton, Albert N., Omaha, Nebr. Stock-watering tank. No. 1,346,307; July 13; v. 276; p. 255.
Eaton, Charles F., Jr., New York, N. Y. Average-speed meter. No. 1,343,198; June 15; v. 275; p. 428.
Eaton, Clarence R., Coldwater, Kans. Engine. No. 1,361,521; Dec. 7; v. 281; p. 110.
Eaton, George C., Norwich, N. Y. Feeding device for poultry. No. 1,350,013; Aug. 17; v. 277; p. 491.
Eaton, George M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Locomotive-transmission system. No. 1,329,269; Jan. 27; v. 270; p. 576.
Eaton, George M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Locomotive construction. No. 1,336,555; Apr. 13; v. 273; p. 220.
Eaton, George M., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Locomotive. No. 1,347,898; July 27; v. 276; p. 686.
Eaton, George M., assignor to Westinghouse Electric and Manufacturing Company, Pittsburgh, Pa. Rotor for dynamo-electric machines. No. 1,351,897; Sept. 7; v. 278; p. 37.
Eaton, George M., assignor to Westinghouse Electric and Manufacturing Company, Pittsburgh, Pa. Rotatable member for dynamo-electric machines. No. 1,351,898; Sept. 7; v. 278; p. 37.
Eaton, George M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Vertical steering-gears for torpedoes. No. 1,360,276; Nov. 30; v. 280; p. 821.
Eaton, Harrison, H., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Resurfacing device. No. 1,329,383; Feb. 3; v. 271; p. 80.
Eaton, Harrison H., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Cutting-machine. No. 1,337,208; Apr. 20; v. 273; p. 420.
Eaton, John, Schenectady, N. Y., assignor to General Electric Company. Control of electric motors. No. 1,328,501; Jan. 20; v. 270; p. 403.
Eaton, John, Schenectady, N. Y., assignor to General Electric Company. Motor control. No. 1,330,627; Feb. 10; v. 271; p. 271.
Eaton, John, Schenectady, N. Y., assignor to General Electric Company. Electromagnetic switch. No. 1,334,144; Mar. 16; v. 272; p. 485.
Eaton, John, Schenectady, N. Y., assignor to General Electric Company. Control-switch. No. 1,350,924; Aug. 24; v. 277; p. 714.
Eaton, John, assignor to General Electric Company, Schenectady, N. Y. Switch mechanism for starting electric motors. No. 1,357,695; Nov. 2; v. 280; p. 93.
Eaton, Joseph E., San Francisco, Calif. Airplane. No. 1,340,707; May 18; v. 274; p. 520.
Eaton, Joseph E., San Francisco, Calif. Wire-fence stay. No. 1,343,770; June 15; v. 275; p. 540.
Eaton, Orrin O., Watsonville, Calif. Shipping package. No. 1,353,155; Sept. 21; v. 278; p. 376.
Eaton, William E., Washington, D. C., assignor to the Government of the United States. Medical pouch. No. 1,342,432; June 8; v. 275; p. 213.
Eaton, William S., Sag Harbor, N. Y. Etching-machine. No. 1,341,739; June 1; v. 275; p. 25.
Eaton, William W., Bayonne, N. J. Ruler. No. 1,334,145; Mar. 16; v. 272; p. 485.
Eaves, Augustus J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph repeating system. No. 1,353,464; Sept. 21; v. 278; p. 437.
Eaves, Augustus J., assignor to Western Electric Company, Incorporated, New York, N. Y. Secret telegraphic system. No. 1,356,701; Oct. 26; v. 279; p. 582.
Ebeling, Charles W., New York, N. Y. Toy. No. 1,336,556; Apr. 13; v. 273; p. 220.
Ebeling, R. W., Company. (See Ebeling, Robert W., assignor.)
Ebeling, Robert W., Oakland, Calif., assignor to R. W. Ebeling Company, Incorporated. Multiple-circuit-resistance control. No. 1,329,168; Jan. 27; v. 270; p. 557.
Ebeling, Robert W., Oakland, Calif., assignor to R. W. Ebeling Company, Incorporated. Rheostat. No. 1,329,167; Jan. 27; v. 270; p. 557.
Eberhardt, Ferdinand, assignor to Compac Tent Company, Indianapolis, Ind. Collapsible minnow net. No. 1,348,398; Aug. 3; v. 277; p. 53.
Eberhardt, Fred R. (See Eberhardt, Henry J. and F. R.)
Eberhardt, Henry J. and F. R., assignors to Newark Gear Cutting Machine Co., Newark, N. J. Work-arbor support. No. 1,357,696; Nov. 2; v. 280; p. 93.
Eberhart, Cleburne, Jr., assignor to Play-O-Lite Company, Incorporated, Buffalo, N. Y. Piano-lamp. No. 1,353,033; Sept. 14; v. 278; p. 293.
Eberhart, Felix, Newark, N. J., assignor to American Can Company, New York, N. Y. Talcum-powder box. No. 1,340,217; May 18; v. 274; p. 427.
Eberl, Frank, New York, N. Y. Folding attachment for beds. No. 1,347,447; July 20; v. 276; p. 539.
Eberle, John A., St. Louis, Mo. Baby-walker. No. 1,328,826; Jan. 27; v. 270; p. 491.
Eberle, John A., St. Louis, Mo. Child's rocker. No. 1,341,303; May 25; v. 274; p. 705.
Eberle, John A., St. Louis, Mo. Suspensible seat. No. 1,351,746; Sept. 7; v. 278; p. 6.
Eberman, William A., assignor of one-half to W. E. Smith, Chicago, Ill. Camera. No. 1,361,031; Dec. 7; v. 281; p. 10.
Ebert, John, Chicago, Ill. Aeroplane. No. 1,348,934; Aug. 10; v. 277; p. 207.
Ebert, Otto N., assignor of forty one-hundredths to Albert B. Swartz, Indianapolis, Ind. Means for mounting motor-vehicle bodies. No. 1,355,823; Oct. 19; v. 279; p. 363.
Ebert, William C. (See Plinske, G. A. and W. J., and Ebert.)
Eble, Frank J., Astoria, N. Y. Handbag baby-carriage. No. 1,361,698; Dec. 7; v. 281; p. 144.
Eby, Philip, assignor to Art In Buttons, Inc., Rochester, N. Y. Separating-machine. No. 1,347,215; July 20; v. 276; p. 492.
Eby, Philip, and L. Angle, assignors to Art in Buttons, Inc., Rochester, N. Y. Machine for separating button-blanks. No. 1,350,794; Aug. 24; v. 277; p. 690.
Eccentric Ferris Wheel Amusement Company. (See Hermann, Charles, assignor.)
Eccles, Frank, Redcar, England. Motor-vehicle circuit-lock. No. 1,361,450; Dec. 7; v. 281; p. 95.
Eccleston, Charles W., Los Angeles, Calif. Riffled pneumatic concentrating-table for gravitational separation of comminuted material. No. 1,343,497; June 15; v. 275; p. 485.
Eccleston, George P., Boston, Mass. Comb. No. 1,356,273; Oct. 19; v. 279; p. 452.
Echterling, Waldemar E., Crete township, Will county, Ill. Grain-elevator. No. 1,349,948; Aug. 17; v. 277; p. 478.
Eckart, George F., Lexington, Ky. Flexible coupling. No. 1,337,646; Apr. 20; v. 273; p. 502.
Eckenrode, Louis A., Chambersburg, Pa. Electrode-holder. No. 1,329,384; Feb. 3; v. 271; p. 80.

Digitized by Google

Eckenroth, Philip, Philadelphia, Pa., assignor of six-twenty-fifths to W. F. Hamilton, Cynwyd, and six twenty-fifths to F. J. Milon, William Penn, Pa. Valve. No. 1,357,767; Nov. 2; v. 280; p. 108.
Eckerman, Charles W., Alameda, Calif. Shock-absorber for typewriting-machines. No. 1,350,014; Aug. 17; v. 277; p. 491.
Eckert, Carl J., and P. J. Richman, Chicago, Ill. Waterproof combination cigarette, match, and coin case. No. 1,328,988; Jan. 27; v. 270; p. 523.
Eckert, Karl, Fällanden, Switzerland, assignor to H. Koch, Dietikon, Switzerland. Belt-holder for looms. No. 1,344,177; June 22; v. 275; p. 684.
Eckert, Joseph, Dayton, Ohio. Bottle-cap remover. No. 1,328,827; Jan. 27; v. 270; p. 492.
Eckert, William A., Buffalo, N. Y. Cutlery-handle. No. 1,333,066; Mar. 9; v. 272; p. 221.
Eckford, William, Rhyl, Wales. Bullet-making machinery. No. 1,330,853; Feb. 17; v. 271; p. 381.
Eckhard, William. (See White, J., and Eckhard.)
Eckhardt, William G., De Kalb, Ill. Means for handling ear-corn. No. 1,334,235; Mar. 16; v. 272; p. 501.
Eckler, George E., Akron, Ohio. Collapsible core. No. 1,361,840; Dec. 14; v. 281; p. 219.
Eckmann, Aron, assignor to Schweiz. Serum- und -Impfinstitut, Berne, Switzerland. Producing mercuroamino combinations. No. 1,347,083; July 20; v. 276; p. 467.
Eckmann, Siegmund H., Manchester, England, assignor to Westinghouse Electric and Manufacturing Company. Electrical system. No. 1,349,371; Aug. 10; v. 277; p. 294.
Eckroat, Peter F., Orange, Calif. Stripping mechanism. No. 1,357,087; Oct. 26; v. 279; p. 658.
Ecks, Fred, New York, Y. Air-relief valve for sprinkler systems. No. 1,326,922; Jan. 6; v. 270; p. 7.
Eclipse Machine Company. (See Bergmann, Carl, Jr.)
Eclipse Machine Company. (See McGrath, William L., assignor.)
Eclipse Stove Company. (See Robinson, Harry A., assignor.)
Eclipse Stove Company, The. (See Taylor, Thomas E., assignor.)
Econometer Company. (See Gebhart, John C., assignor.)
Economy Appliance Company. (See Collier, Frederick W., assignor.)
Economy Engineering Company. (See French, G. M., and Pavey, assignors.)
Economy Fuse & Manufacturing Company. (See Eustice, Alfred L., assignor.)
Economy Shoe Machine Co. (See Terry, George O., assignor.)
Economy Toilet Flush Company. (See Williamson, Samuel S., assignor.)
Eddington, William, Danville, Ill. Oil-motor. No. 1,331,559; Feb. 24; v. 271; p. 534.
Eddison, William B., Irvington, assignor to The Surface Combustion Co., Incorporated, New York, N. Y. Apparatus for unloading pumps. No. 1,350,095; Aug. 17; v. 277; p. 507.
Eddleman, George H., Memphis, Tenn. Truss. No. 1,345,148; June 29; v. 275; p. 937.
Eddy, Adolphus F., Berkeley, Calif. Combination-tool. No. 1,356,431; Oct. 19; v. 279; p. 483.
Eddy, Boughton U., Pittsfield, Mass., assignor to General Electric Company. Tube-loading machine. No. 1,331,902; Feb. 24; v. 271; p. 600.
Eddy, Charles H., Attleboro, Mass. Combined shade and curtain fixture. No. 1,333,163; Mar. 9; v. 272; p. 239.
Eddy, Charles W., East Providence, R. I. Metal-plating machine. No. 1,342,899; June 8; v. 275; p. 306.
Eddy, J. G. (See Brandt, Matthew A., assignor.)
Edeburn, Tod. (See Goetz, L. G., and Edeburn.)
Edelblute, William S., assignor of one-half to I. McKenzie, Delphos, Ohio. Gate. No. 1,334,846; Mar. 23; v. 272; p. 663.
Edelblute, William S., assignor of one-half to I. McKenzie, Delphos, Ohio. Feeding-trough. No. 1,335,568; Mar. 30; v. 272; p. 858.
Edelman, Philip E., Minneapolis, Minn. Electrochemical analytical control. No. 1,341,790; June 1; v. 275; p. 35.
Edelstein, Louis, Dickson, Pa. Bed. No. 1,355,545; Oct. 12; v. 279; p. 269.
Eden, James A., Jr., Springfield, Mass., assignor to W. H. Foster, New York, N. Y. Staybolt-machine. No. 1,342,534; June 8; v. 275; p. 233.
Eden, James A., Jr., Springfield, Mass., assignor to W. H. Foster, New York, N. Y. Cutter-head. No. 1,342,535; June 8; v. 275; p. 233.
Eden, James A., Jr., Springfield, Mass., assignor to W. H. Foster, New York, N. Y. Machine for making staybolts and the like. No. 1,342,536; June 8; v. 275; p. 233.
Eden, James A., Jr., Springfield, Mass., assignor to W. H. Foster, New York, N. Y. Chuck for staybolt and other machines. No. 1,361,571; Dec. 7; v. 281; p. 120.
Eden, James A., Jr., Springfield, Mass., assignor to W. H. Foster, New York, N. Y. Bolt-machine. No. 1,361,572; Dec. 7; v. 281; p. 120.
Edenborn, William, New Orleans, La. Apparatus for extracting resin and allied products. No. 1,351,629; Aug. 31; v. 277; p. 916.
Edgar, Robert A., assignor of one-fourth to H. T. Rentfroe and one-eighth to J. A. Sellers, Carlyle, Kans. Car-door. No. 1,345,755; July 6; v. 276; p. 84.
Edgar Steel Seal & Mfg. Co., The. (See Edgar, William K., assignor.)
Edgar, Walter K., St. Joseph, Mo. Engine. No. 1,356,757; Oct. 26; v. 279; p. 593.
Edgar, William K., assignor to The Edgar Steel Seal & Mfg. Co., Lawrence, Kans. Car-seal. No. 1,344,491; June 22; v. 275; p. 747.
Edgar, William K., assignor to The Edgar Steel Seal and Mfg. Co., Lawrence, Kans. Automatic feed device. No. 1,344,492; June 22; v. 275; p. 747.
Edge Moor Iron Company. (See Bradford, Henry B., assignor.)
Edge Moor Iron Company. (See Sellers, William F., assignor.)
Edgecomb, Arthur C. (See Downey, J. B., and Edgecomb.)
Edgecomb, Clark R., Eldorado, Kans. Oil-saving attachment. No. 1,357,856; Nov. 2; v. 280; p. 125.
Edgecomb, George F., Norfolk, Va. Wrench. No. 1,355,546; Oct. 12; v. 279; p. 269.
Edgerton, Roy G., Suffolk, Va. Internal-combustion-engine-testing device. No. 1,344,387; June 22; v. 275; p. 726.
Edgewater Steel Company. (See Bell, Frank B., assignor.)
Edgeworth, Kenneth E., Dublin, Ireland. Treatment of peat for fuel and apparatus therefor. No. 1,347,940; July 27; v. 276; p. 693.
Edholm, Harald, Upsala, Sweden. Vertically-movable folding grating. No. 1,356,346; Oct. 19; v. 279; p. 467.
Edington, Henry V., Chicago, Ill., assignor to Sefton Manufacturing Corporation, Millbrook, N. Y. Paper box. No. 1,347,899; July 27; v. 276; p. 686.
Edison Electric Appliance Company. (See Rankin, William A., assignor.)
Edison Electric Appliance Company. (See Richardson, Earl H., assignor.)
Edison, Karl, assignor to Harry E. Block, Spring Valley, N. Y. Gyroscopic top. No. 1,351,630; Aug. 31; v. 277; p. 916.
Edison Storage Battery Company. (See Bachman, R. A., and Norton, assignors.)
Edison Storage Battery Company. (See Monahan, James F., assignor.)
Edison Storage Battery Company. (See Smith, Roscoe J., assignor.)
Edison, Thomas A., assignor to New Jersey Patent Company, West Orange, N. J. Swaging-machine. (Reissue.) No. 14,798; Feb. 3; v. 271; p. 131.
Edison, Thomas A., Llewellyn Park, West Orange, assignor to New Jersey Patent Company, West Orange, N. J. Composition of matter for sound-records or the like and making same. No. 1,342,826; June 1; v. 275; p. 139.
Edison, Thomas A., Llewellyn Park, West Orange, N. J. Electroplating. No. 1,359,972; Nov. 23; v. 280; p. 693.
Edling, Matthias, and W. Falk, Iron River, Mich. Resilient wheel. No. 1,345,912; July 6; v. 276; p. 115.
Edlund, Conrad, assignor to Doehler Die Casting Company, Brooklyn, N. Y. Die-casting apparatus. No. 1,349,122; Aug. 10; v. 277; p. 244.
Edman Car Door Company. (See Edman, John, assignor.)
Edman, John, Minneapolis, Minn., assignor, by mesne assignments to P. M. Power, Chicago, Ill. Convertible stock and freight car. No. 1,337,348; Apr. 20; v. 273; p. 446.
Edman, John, assignor to Edman Car Door Company, Minneapolis, Minn. Car-door lock. No. 1,344,444; June 22; v. 275; p. 737.
Edminster, Llewellyn D. (See Dow, Floyd, assignor.)
Edmon, Elmer A. (See Christie and Edmon.)
Edmonds, Cleland J. (See Jacoby, S. E., and Edmonds.)
Edmonds, George F., Leavenworth, Kans. Moisture-collector. No. 1,346,742; July 13; v. 276; p. 341.
Edmonds, Henry, Birmingham, England. Fastener for bags, purses, and the like. No. 1,347,364; July 20; v. 276; p. 523.
Edmonds, Laura M., and B. E. Scott, Cleveland, Ohio. Carrying receptacle for automobiles. No. 1,356,274; Oct. 19; v. 279; p. 452.
Edmondson, Warren L., Washington, D. C. Renewable cutting-tooth point. No. 1,340,385; May 18; v. 274; p. 459.
Edmonston, William L. (See Schoolfield, Lucille D., assignor.)
Edmunds & Jones Corporation. (See Godley, Charles E., assignor.)
Edna Brass Manufacturing Company, The. (See Macneir, Edwin, assignor.)
Edsall, William H., and F. L. Lathrop, assignors to H. L. Judd Company, Wallingford, Conn. Drapery-carrier. No. 1,329,889; Feb. 3; v. 271; p. 102.
Edsen, Edward, Milwaukee, Wis. Heating system. No. 1,345,149; June 29; v. 275. p. 938.
Edser, Edwin, Brockley, and S. Tucker, London, England, assignors to Minerals Separation North American Corporation, New York, N. Y. Softening water. No. 1,333,393; Mar. 9; v. 272; p. 282.

Digitized by Google

Alphabetical list of patentees—Continued.

Edser, Edwin, Brockley, and S. Tucker, London, England, assignors to Minerals Separation North American Corporation, New York, N. Y. Concentration of ores. No. 1,337,548; Apr. 20; v. 273; p. 484.
Edstrom, Albert, Duluth, Minn. Bag-holder. No. 1,350,443; Aug. 24; v. 277; p. 622.
Edstrom, Arthur E., Elbow Lake, Minn. Draft attachment. No. 1,343,908; June 22; v. 275; p. 632.
Edthauer, Petronella, Chicago, Ill. Feed-regulator. No. 1,330,179; Feb. 10; v. 271; p. 188.
Educational Supply Association. (See Pye, Emmeline, assignor.)
Edward Valve & Manufacturing Co., The. (See Oieson, Olaf E., assignor.)
Edwards, Albert J., Indianapolis, Ind. Collar-button and necktie-slide. No. 1,342,102; June 1; v. 275; p. 96.
Edwards, Albert Y., Springfield, Ohio. Internal-combustion engine. No. 1,338,721; May 4; v. 274; p. 14.
Edwards, Alice, *et al.* (See Kemper, Marie, assignor.)
Edwards, Ara B., and C. A. Turner, Hamlet, N. C., and T. L. Reed, Atlanta, Ga. Valve-changing means. No. 1,353,114; Sept. 14; v. 278; p. 308.
Edwards, Charles K., Chingford, London, England. Vehicle-spring suspension. No. 1,349,332; Aug. 10; v. 277; p. 286.
Edwards, Charles R., Houston, Tex. Unscrewing device for pipe-joints. No. 1,334,487; Mar. 23; v. 272; p. 595.
Edwards, Charles R., Pekin, Ill. Pump. No. 1,337,057; Apr. 13; v. 273; p. 317.
Edwards Corporation. (See Buch, Max, assignor.)
Edwards, Daniel G., Woodlawn, Tenn. Explosive shell. No. 1,336,828; Apr. 13; v. 273; p. 273.
Edwards, Daniel G., Hopkinsville, Ky. Aerial bomb and launching mechanism therefor. No. 1,363,578; Dec. 28; v. 281; p. 650.
Edwards, Davey and J. M., Gamant, Carmarthen, Wales. Air-valve for internal-combustion engines. No. 1,335,099; Mar. 30; v. 272; p. 771.
Edwards, Francis E., assignor to Stromberg Motor Devices Company, Chicago, Ill. Fuel-feed system. No. 1,353,949; Sept. 28; v. 278; p. 577.
Edwards, Frank A., assignor of one-half to A. Sparrow, Chicago, Ill. Bath-faucet attachment. No. 1,360,381; Nov. 30; v. 280; p. 841.
Edwards, Frank A., assignor of one-half to A. Sparrow, Chicago, Ill. Barber's and hair-dresser's shampoo and hair-washing device. No. 1,360,382; Nov. 30; v. 280; v. 841.
Edwards, George D., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. No. 1,340,942; May 25; v. 274; p. 635.
Edwards, Henry E. (See Buch, Max, assignor.)
Edwards, Henry E., assignor to Jackson Cushion Spring Company, Jackson, Mich. Clip for spring structures. No. 1,355,133; Oct. 12; v. 279; p. 188.
Edwards, Isaac L., Aurora, Ill. Automatic railway switch and signal. No. 1,351,946; Sept. 7; v. 278; p. 47.
Edwards, James T., London, England. Apparatus for washing and cleaning test-tubes. No. 1,332,033; Feb. 24; v. 271; p. 624.
Edwards, James T., London, England. Brush for use in cleaning test-tubes, bottles, or the like. No. 1,332,034; Feb. 24; v. 271; p. 625.
Edwards, John M. (See Edwards, Davey and J. M.)
Edwards, Joseph I., Livermore, Calif. Egg-carrier. No. 1,362,482; Dec. 14; v. 281; p. 345.
Edwards, Josiah H., Los Angeles, Calif. Sash-fastener. No. 1,327,594; Jan. 6; v. 270; p. 133.
Edwards, Lake B., Anniston, Ala. Lubricating mechanism. No. 1,347,019; July 20; v. 276; p. 455.
Edwards, O. M., Company, The. (See Axe, R. T., and Chaffee, assignors.)
Edwards, O. M., Company, The. (See Axe, Roy T., assignor.)
Edwards, O. M., Company, The. (See Chaffee, Edward F., assignor.)
Edwards, Richard E. (See Schroeder, Frank H., assignor.)
Edwards, Riley. (See Raab, J. W., and Edwards.)
Edwards, Robert D., Kansas City, Mo. Motor-belt. No. 1,335,280; Mar. 30; v. 272; p. 804.
Edwards, Sidney G., Albany, N. Y. Perpetual calendar. No. 1,345,150; June 29; v. 275; p. 938.
Edwards, William A., Chicago, Ill. Two-cycle engine. No. 1,353,465; Sept. 21; v. 278; p. 437.
Edwards, William A., Chicago, Ill. Two-cycle engine. No. 1,360,383; Nov. 30; v. 280; p. 842.
Edwards, William A., assignor to Findeisen & Kropf Mfg. Co., Chicago, Ill. Carbureter. No. 1,335,430; Mar. 30; v. 272; p. 832.
Edwards, William D., assignor of one-half to H. W. Page, Maywood, Ill. Method of and apparatus for making ice. No. 1,348,352; Aug. 3; v. 277; p. 44.
Edwards, William R., assignor to The Cleveland Welding and Manufacturing Company, Cleveland, Ohio. Tube-welding machine. No. 1,356,054; Oct. 19; v. 279; p. 408.
Eells, Albert F., Rochester, N. Y. Anchor. No. 1,327,201; Jan. 6; v. 270; p. 60.
Een, Johannes B., Voss, Norway. Joint for sectional buildings. No. 1,357,626; Nov. 2; v. 280; p. 80.
Een, John, Amherst, Wis. Poison-distributer. No. 1,339,556; May 11; v. 274; p. 244.
Efficiency Building Appliance Company. (See Boughton, George B., assignor.)
Efficiency Electric Corporation. (See Dean, William W., assignor.)
Efficiency Engineering Company, The. (See Kendall, Henry E., assignor.)
Efficiency Mileage Recorder Co. (See Koehler, Charles H., assignor.)
Egan, James, Chicago, Ill. Towing attachment. No. 1,332,388; Mar. 2; v. 272; p. 41.
Egan, James J. (See Tabor, Edward P., assignor.)
Egan, John W., Toronto, Ontario, Canada. Cut-out plug. No. 1,356,611; Oct. 26; v. 279; p. 564.
Egan, W. P. (See Shepard, James P., assignor.)
Egan, William F., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Making hollow bodies. No. 1,349,372; Aug. 10; v. 277; p. 294.
Eganey, Michael A., *et al.* (See Hemmer, Frederick L., assignor.)
Egbert, Bert S., and A. T. Raynor, Toledo, Ohio. Lock. No. 1,357,446; Nov. 2; v. 280; p. 46.
Egbert, George H., Evansville, Ind. Perfume-vending machine. No. 1,355,456; Oct. 12; v. 279; p. 252.
Egbert, Louis M., assignor of one-half to F. M. Risley, Elizabeth, N. J. Vehicle-wheel lock. No. 1,361,756; Dec. 7; v. 281; p. 155.
Ege, Alexander H., Mechanicsburg, Pa. Artificial fuel. No. 1,357,627; Nov. 2; v. 280; p. 81.
Egedi, Paul, Buffalo, N. Y. Water-motor. No. 1,352,588; Sept. 14; v. 278; p. 204.
Egeland, Peter O., assignor of one-half to B. F. Daniel, Akeley, Minn. Cement-mixer. No. 1,340,880; May 25; v. 274; p. 623.
Eger, John, Geary, Okla. Socket. No. 1,330,248; Feb. 10; v. 271; p. 200.
Egersdörfer, Fritz. (See Hammer, Arthur, and Egersdörfer.)
Egerton, Henry C., Ridgewood, N. J. Shank-stiffener. No. 1,327,091; Jan. 6; v. 270; p. 40.
Egerton, Henry C., Passaic, N. J. Shoe-sole. No. 1,352,730; Sept. 14; v. 278; p. 233.
Egerton, Henry C., Ridgewood, N. J. Gripping shoe-sole. No. 1,352,731; Sept. 14; v. 278; p. 233.
Egerton, Henry C., Ridgewood, N. J. Weather-strip. No. 1,352,732; Sept. 14; v. 278; p. 234.
Egerton, Henry C., Ridgewood, N. J. Mat, &c. No. 1,352,733; Sept. 14; v. 278; p. 234.
Egerton, Henry C., Ridgewood, N. J. Gripping rubber shoe-heel. No. 1,352,734; Sept. 14; v. 278; p. 234.
Egerton, Henry C., Ridgewood, N. J. Valve member, &c. No. 1,352,735; Sept. 14; v. 278; p. 234.
Egerton, Henry C., Ridgewood, N. J. Rubber shoe-sole for turn-shoes. No. 1,352,736; Sept. 14; v. 278; p. 234.
Egerton, Henry C., Ridgewood, N. J. Partially-stiffened shoe-sole. No. 1,352,737; Sept. 14; v. 278; p. 734.
Egerton, Henry C., Ridgewood, N. J. Making boots and shoes. No. 1,352,738; Sept. 14; v. 278; p. 234.
Egerton, Henry C., Ridgewood, N. J. Fabric. No. 1,352,739; Sept. 14; v. 278; p. 234.
Egerton, Henry C., Ridgewood, N. J. Vulcanized rubber hose. No. 1,352,740; Sept. 14; v. 278; p. 235.
Egerton, Henry C., Ridgewood, N. J. Molding composite articles. No. 1,353,800; Sept. 21; v. 278; p. 504.
Egerton, Henry C., Passaic, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-amplifier. No. 1,337,694; Apr. 20; v. 273; p. 512.
Egerton, Henry C., Passaic, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone sets. No. 1,339,814; May 11; v. 274; p. 294.
Egger, Gustav, Wellsville, N. Y. Regulator for elastic-fluid turbines. No. 1,329,385; Feb. 3; v. 271; p. 8.
Egger, Gustav, Wellsville, N. Y. Elastic-fluid turbine. No. 1,329,515 Feb. 3; v. 271; p. 33.
Eggers, Anton C., Brooklyn, N. Y., assignor to The Goodyear's India Rubber Glove Manufacturing Company. Pneumatic cushion. No. 1,343,357; June 15; v. 275; p. 458.
Eggers, William A., Milwaukee, Wis. Gage for sheet-metal machines. No. 1,346,185; July 13; v. 276; p. 231.
Eggers, William J., Brooklyn, N. Y. Rubber toothbrush. No. 1,327,757; Jan. 13; v. 270; p. 226.
Eggleston Air-Cell Aeroplane Company. (See Eggleston, Thomas L., assignor.)
Eggleston, Claude M., Searcy, Ark. Gasolene-dispenser. No. 1,327,425; Jan. 6; v. 270; p. 101.
Eggleston, Thomas L., Washington, D. C., assignor to Eggleston Air-Cell Aeroplane Company. Airplane. No. 1,347,084; July 20; v. 276; p. 468.
Eggleston, William H., Grandville, assignor of one-half to D. Ritzema, Grand Rapids, Mich. Extension angle-square. No. 1,329,337; Jan. 27; v. 270; p. 587.
Egler, Nickolas F., Chicago, Ill. Heating-furnace. No. 1,338,003; Apr. 27; v. 273; p. 640.
Egli, Eduard, assignor to Maschinenfabrik Rüti formerly Caspar Honegger, Rüti, Switzerland. Weft-spindle tube for spinning and winding machines. No. 1,333,397; Mar. 9; v. 272; p. 283.

Digitized by Google

Eglit, John J., New York, N. Y. Lifeboat-davit. No. 1,336,075; Apr. 6; v. 278; p. 70.
Egnatoff, Paul, Saskatoon, Saskatchewan, Canada. Sugar-dispenser. No. 1,361,146; Dec. 7; v. 281; p. 33.
Egts, Louie M., Atlanta, Ga. Pistol. No. 1,339,949; May 11; v. 274; p. 319.
Ehlers, Albert, *et al.* (See Randolph, Chester L., assignor.)
Ehlers, George R., assignor to Automatic Counter Sinking Tool Company, Wilmington, Del. Countersinking-tool. No. 1,362,529; Dec. 14; v. 281; p. 354.
Ehlers, Lillie, Stickney, S. D. Pot-lid. No. 1,328,652; Jan. 20; v. 270; p. 430.
Ehlers, Robert J., Northport, N. Y. Wheel-bearing for furniture. No. 1,342,279; June 1; v. 275; p. 131.
Ehnborn, Clemens E., Chicago, Ill. Spool. No. 1,346,117; July 13; v. 276; p. 218.
Ehr, John N., W. J. Ehr, and G. W. Matteson, Moose Lake, Minn. Lumber composition. No. 1,348,789; Aug. 3; v. 277; p. 127.
Ehr, Walter J. (See Ehr, John N. and W. J., and Matteson.)
Ehrenfeld, Max, New York, N. Y. Cuff-link. No. 1,362,402; Dec. 14; v. 281; p. 329.
Ehret, Cornelius D., Philadelphia, Pa. Method of and apparatus for producing X-rays. No. 1,337,349; Apr. 20; v. 273; p. 447.
Ehret, Cornelius D., Philadelphia, Pa. Electrical transmission of intelligence. No. 1,352,589; Sept. 14; v. 278; p. 205.
Ehret, Cornelius D., Philadelphia, Pa. Optical pyrometry. No. 1,362,403; Dec. 14; v. 281; p. 330.
Ehrhart, Raymond N., Edgewood, Pa. Marine condenser. No. 1,352,440; Sept. 14; v. 278; p. 174.
Ehrhart, Raymond N., Edgewood, Pa. Surface condenser. No. 1,353,641; Sept. 21; v. 278; p. 473.
Ehrhart, Raymond N., Edgewood, Pa. Condenser. No. 1,353,642; Sept. 21; v. 278; p. 473.
Ehrhart, Raymond N., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Co. Condenser. No. 1,328,828; Jan. 27; v. 270; p. 492.
Ehrhart, Raymond N., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Condenser installation. No. 1,342,103; June 1; v. 275; p. 96.
Ehrhart, Raymond N., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Co. Marine turbine installation. No. 1,343,665; June 15; v. 275; p. 519.
Ehrhart, Raymond N., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Co. Heat-conserving apparatus. No. 1,343,666; June 15; v. 275; p. 519.
Ehrhart, Raymond N., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Co. Condensing apparatus. No. 1,352,437; Sept. 14; v. 278; p. 174.
Ehrhart, Raymond N., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Co. Condenser. No. 1,352,438; Sept. 14; v. 278; p. 174.
Ehrhart, Raymond N., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Co. Valve-unloading mechanism. No. 1,352,439; Sept. 14; v. 278; p. 174.
Ehrhart, Raymond N., Edgewood Park, Pa., and H. M. Graham, St. Johns, Quebec, Canada, assignors to Westinghouse Electric & Manufacturing Co. Condenser. No. 1,332,188; Feb. 24; v. 271; p. 652.
Ehrig, George B., Washington, D. C. Rotary toothbrush. No. 1,340,760; May 18; v. 274; p. 529.
Ehrlich, Leo, assignor of one-half to A. S. Partridge and one-half to A. Blair, St. Louis, Mo. Fabric-measuring and cost-computing machine. No. 1,339,748; May 11; v. 274; p. 281.
Eibner, Louisz, Wellington, Ohio. Rail-joint. No. 1,342,377; June 1; v. 275; p. 148.
Eichelberger, Lewis H., Plainfield, N. J. Mixing and discharging apparatus for cement and other substances. No. 1,334,895; Mar. 23; v. 272; p. 673.
Eichelberger, Lewis H., Plainfield, N. J., assignor to Ransome Concrete Machinery Company, New York, N. Y. Pneumatic concrete-mixer and paver. No. 1,362,242; Dec. 14; v. 281; p. 299.
Eichelberger, Lewis H., Plainfield, N. J., and R. A. Walter, Frostburg, Md., assignors to Ransome Concrete Machinery Company, New York, N. Y. Apparatus for and method of mining. No. 1,334,894; Mar. 23; v. 272; p. 672.
Eichelberger, William, Pierce, W. Va., assignor of one-half to G. B. Somerville, Johnstown, Pa. Combined egg boiler and poacher. No. 1,354,385; Sept. 28; p. 278; p. 666.
Eichenberger, Ferdinand, assignor to Aktiengesellschaft, Kumler & Matter, Aarau, Switzerland. Electric soldering-iron. No. 1,361,032; Dec. 7; v. 281; p. 10.
Eichendorff, Bruno E., San Francisco, Calif. Attachment for diestocks. No. 1,352,253; Sept. 7; v. 278; p. 104.
Eichenfeld, Daniel, Tulsa, Okla. Subirrigation system. No. 1,333,296; Mar. 9; v. 272; p. 264.
Eichengran Sales Corporation, *et al.* (See Case, William A., assignor.)
Eichengrün, Arthur, Berlin, Germany, assignor, by mesne assignments, to American Cellone Company, (Inc.), New York, N. Y. Preparing layers of acetyl cellulose for coating materials. No. 1,357,447; Nov. 2; v. 280; p. 47.
Eichhorn, Jacob C., Detroit, Mich. Storage-battery cell. No. 1,339,442; May 11; v. 274; p. 223.
Eichler, Albert, and C. Jensen, Minneapolis, Minn. Automobile-wheel puller. No. 1,361,975; Dec. 14; v. 281; p. 246.
Eichmeier, Herman C., St. Maries, Idaho. Brake. No. 1,328,502; Jan. 20; v. 270; p. 403.
Eichorn, Albert H., *et al.* (See Eichorn, Frederick C. H., assignor.)
Eichorn, Frederick C. H., assignor of two-thirds to J. W. Burke and A. H. Eichorn, Boston, Mass. Automobile-lock. No. 1,347,262; July 20; v. 276; p. 503.
Eichstedt, John A., Akron, Ohio. Key-ring holder. No. 1,327,534; Jan. 6; v. 270; p. 122.
Eick, Otto, St. Louis, Mo. Pasteurizer. No. 1,356,055; Oct. 19; v. 279; p. 408.
Eickhoff, August F., Osceola, Wis. Fire-prevention means. No. 1,355,595; Oct. 12; v. 279; p. 278.
Eickhoff, T. H., Washington, D. C., and C. A. Tunks, Cleveland, Ohio, assignors to Auto-Ordnance Corporation, New York, N. Y. Headspace-micrometer. No. 1,351,721; Aug. 31; v. 277; p. 933.
Eickhoff, Theodore H., Cleveland, Ohio, assignor, by mesne assignments, to Auto-Ordnance Corporation, New York, N. Y. Apparatus for lubricating ammunition. No. 1,350,645; Aug. 24; v. 277; p. 661.
Eickhoff, Theodore H., Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y. Magazine. No. 1,350,646; Aug. 24; v. 277; p. 661.
Eickhoff, Theodore H., Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y. Ammunition-lubrication device. No. 1,361,373; Dec. 7; v. 281; p. 79.
Eickhoff, Theodore H., and C. A. Tunks, Cleveland, Ohio, assignors to Auto-Ordnance Corporation, New York, N. Y. Ammunition lubrication. No. 1,327,878; Jan. 6; v. 270; p. 93.
Eickhoff, Theodore H., and O. V. Payne, Cleveland, Ohio, assignors to Auto-Ordnance Corporation, New York, N. Y. Breech-closure. No. 1,340,943; May 25; v. 274; p. 635.
Eidt, Fred, West New Brighton, N. Y. Cooking utensil. No. 1,356,432; Oct. 19; v. 279; p. 483.
Eig, Alexander, New York, N. Y. Apparatus for sewing-machine constructions. No. 1,351,029; Aug. 31; v. 277; p. 798.
Eilender, Walter L. E., Remscheid, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. High-speed steel. No. 1,337,209; Apr. 20; v. 273; p. 420.
Eilender, Walter L. E., Remscheid, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. High-speed tool-steel. No. 1,337,210; Apr. 20; v. 273; p. 420.
Eilermann, Frank W., *et al.* (See Heitz, Edward L., assignor.)
Eilers, Frank, Fort Wayne, Ind., assignor to Tokheim Oil Tank and Pump Company. Piston-head. No. 1,337,982; Apr. 20; v. 273; p. 567.
Eilers, Frank B., assignor to Wayne Oil Tank & Pump Company, Fort Wayne, Ind. Dispensing-faucet. No. 1,348,854; Aug. 10; v. 277; p. 192.
Eimer, August, and W. T. Wiegand, assignors to Stuyvesant Glass Company, New York, N. Y. Stopcock. No. 1,349,823; Aug. 17; v. 277; p. 545.
Einfeldt, Ernest E., assignor to French & Hecht, Davenport, Iowa. Metal wheel. No. 1,327,227; Jan. 6; v. 270; p. 65.
Einstein, Robert E., St. Louis, Mo., assignor to The American Flange Frog and Railway Improvement Company, Gainesville, Fla. Flange-frog. No. 1,339,597; May 11; v. 274; p. 253.
Einstein, Robert E., St. Louis, Mo., assignor to The American Flange Frog and Railway Improvement Company, Gainesville, Fla. Cast-metal flange-frog. No. 1,339,598; May 11; v. 274; p. 253.
Einstein, Robert E., assignor to Vaughn Rail Support Company, St. Louis, Mo. Rail-chair. No. 1,358,066; Nov. 9; v. 280; p. 227.
Einwechter, Norman C., Philadelphia, Pa. Treating steel. No. 1,359,238; Nov. 16; v. 280; p. 502.
Eisele, Charles W., Flint, Mich. Lamp-dimmer. No. 1,335,727; Apr. 6; v. 273; p. 5.
Eisele, Otto J., New York, N. Y. Rotary internal-combustion engine. No. 1,333,204; Mar. 9; v. 272; p. 247.
Eiselt, Robert O., Blue Earth, Minn. Bicycle attachment. No. 1,337,396; Apr. 20; v. 273; p. 455.
Eisemann Magneto Corporation. (See Andrew, Frederick W., assignor.)
Eisemann Magneto Corporation. (See Uhl, Henry W., assignor.)
Eisemann, Richard, Berlin, Germany. Device for regulating and maintaining constant the speed of motors. No. 1,350,214; Aug. 17; v. 277; p. 531.
Eisendecher, Ernesto, Valdivia, Chile. Wrist-watch holder. No. 1,338,563; Apr. 27; v. 273; p. 745.
Eisenhart, Samuel S., Akron, Ohio. Nut-lock. No. 1,344,684; June 29; v. 275; p. 849.

Digitized by Google

Eisenhauer, Charles P., assignor to The Burnett-Larsh Manufacturing Company, Dayton, Ohio. Water-pumping system. No. 1,328,989; Jan. 27; v. 270; p. 523.
Eisenhauer, Edward W., Jr., Los Angeles, L. F. Flormann, Silver Lake, and E. C. A. Woltmann, Los Angeles, Calif. Wood-ash furnace and extract-boiler. No. 1,341,889; June 1; v. 275; p. 54.
Eisenhauer, William, New York, N. Y. Rust-preventing solution and preparing same. No. 1,344,338; June 22; v. 275; p. 716.
Eisenhut, Frederick, Irvington, N. J. Shaving-brush. No. 1,356,134; Oct. 19; v. 279; p. 424.
Eisenman, Louis, Brooklyn, N. Y. Clothesline pulley-block. No. 1,331,629; Feb. 24; v. 271; p. 548.
Eisenmann, Carl W., Nebraska City, Nebr. Combination magnetic and electric polarity-indicator. No. 1,344,388; June 22; v. 275; p. 726.
Eisenmann, Carl W., Nebraska City, Nebr. Automatic switch. No. 1,348,098; July 27; v. 276; p. 726.
Eisenstadt Manufacturing Company. (See Jacobs, Jacob A., assignor.)
Eisinger, Ludwig W., Bronxville, N. Y. Railway-link. No. 1,327,535; Jan. 6; v. 270; p. 122.
Eisler, Charles, Bloomfield, N. J., assignor to Westinghouse Lamp Company. Filament-winding machine. No. 1,338,498; Apr. 27; v. 273; p. 733.
Eisler, Charles, Bloomfield, N. J., assignor to Westinghouse Lamp Company. Machine for making filament-supports for incandescent lamps. No. 1,338,499; Apr. 27; v. 273; p. 733.
Eisler, Charles, Bloomfield, N. J., assignor to Westinghouse Lamp Company. Machine for making incandescent-lamp stems. No. 1,338,500; Apr. 27; v. 273; p. 734.
Eisner, Max, and A. M. Freeman, Sioux Falls, S. D. Rotary toothbrush. No. 1,338,821; May 4; v. 274; p. 32.
Eitelbuss, Ward A., St. Johns, Mich. Miter-box attachment. No. 1,333,103; Mar. 9; v. 272; p. 228.
Elzerman, William H., Detroit, Mich. Pump. No. 1,332,547; Mar. 2; v. 272; p. 72.
Elzerman, William H., Detroit, Mich. Pump. No. 1,333,656; Mar. 16; v. 272; p. 393.
Eject-O-File Company. (See Howard, Emmett M., assignor.)
Ek, Arvid, Portland, Me. Paper towel. No. 1,347,020; July 20; v. 276; p. 455.
Ek, Martin A., *et al.* (See Niland, Andrew, assignor.)
Ek, Nels G., Minneapolis, assignor to Fosston-Carpenter Company, St. Paul, Minn. Grain-separator. No. 1,341,791; June 1; v. 275; p. 35.
Ek, Nels G., Minneapolis, assignor to Fosston-Carpenter Company, St. Paul, Minn. Grain-sieve. No. 1,341,792; June 1; v. 275; p. 36.
Ek, Nels G., Minneapolis, assignor to Fosston-Carpenter Company, St. Paul, Minn. Sieve-cleaning device. No. 1,341,793; June 1; v. 275; p. 36.
Ekback, Gustav H. (See Holmer, Oscar, assignor.)
Ekberg, Hjalmar J., Stockholm, assignor to O. W. E. Gosling, Stafsjö, Sweden. Briqueting-press. No. 1,330,434; Feb. 10; v. 271; p. 235.
Ekdahl, Alfred E., Nashua, N. H. Thread-breaking device. No. 1,356,275; Oct. 19; v. 279; p. 452.
Ekedahl, Karl J., Cicero, Ill. Tire-protector. No. 1,356,702; Oct. 26; v. 279; p. 582.
Ekelund, John A., Minneapolis, Minn. Walking toy. No. 1,363,460; Dec. 28; v. 281; p. 626.
Ekins, Walter R. (See Ruff, F. J., and Ekins.)
Eklind, Carl E., Chicago, Ill., assignor to W. P. Murphy, New York, N. Y. Buffer-spring for vestibule-diaphragm face-plates. No. 1,354,177; Sept. 28; v. 278; p. 624.
Eklo, Olaus. (See Skinderviken, Johan, assignor.)
Eklund, Georg, Emeryville, Calif. Child's velocipede. No. 1,332,819; Mar. 2; v. 272; p. 123.
Eklund, John G., assignor to St. Joseph Iron Works, St. Joseph, Mich. Basket-cover-stitching machine. No. 1,334,742; Mar. 23; v. 272; p. 643.
Eklund, Peter R., Little Swan, Minn. Pulley-rim. No. 1,331,489; Feb. 24; v. 271; p. 521.
Eklund, Torgny A., Stockholm, Sweden. Recovering tin from stanniferous waste products. No. 1,359,494; Nov. 23; v. 280; p. 598.
Eklundh, John G. G., C. Oden, and J. A. Schmitt, assignors to The Universal Milking Machine Company, Columbus, Ohio. Milking-machine. No. 1,337,211; Apr. 20; v. 273; p. 420.
Ekman, Andrew, Newark, N. J., assignor to Accounting Machine Company, Inc., New York, N. Y. Adding-machine. No. 1,358,427; Nov. 9; v. 280, p. 300.
Ekman, Einar P., Chicago, Ill. Piston-ring. No. 1,363,239; Dec. 28; v. 281; p. 585.
Ekman, Frederick, Ajo, Ariz., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J. Dipper-tooth. No. 1,333,394; Mar. 9; v. 272; p. 282.
Ekstrom, Ernest S., Rosholt, S. D. Latch. No. 1,345,913; July 6; v. 276; p. 116.
Ekvall, Arvid P., and H. Stake, Worcester, Mass. Can-labeling machine. No. 1,327,465; Jan. 6; v. 270; p. 108.
Elam, Samuel G. (See Buddington, Thomas C., assignor.)
Elam, William E. (See Thompson, W. L., and Elam.)
Elbertz, Frank V., assignor to B. F. Everitt Company, Detroit, Mich. Differential mechanism. No. 1,352,590; *Sept. 14; v. 278;* p. 205.
Elbertz, Frank V., assignor to B. F. Everitt Company, Detroit, Mich. Differential axle mechanism. No. 1,354,475; Oct. 5; v. 279; p. 6.
Elcock, John, Columbus, Ga. Kiln. No. 1,329,830; Feb. 3; v. 271; p. 91.
Elcock, Robert, Johannesburg, Transvaal, South Africa. Clothes-washing machine. No. 1,356,433; Oct. 19; v. 279; p. 483.
Elder, Benjamin W., Los Angeles, Calif., assignor to The Allbright-Nell Company. Catalyzer for effecting hydrogenation and making same. No. 1,331,903; Feb. 24; v. 271; p. 600.
Elder, Benjamin W., Los Angeles, Calif., assignor to The Allbright-Nell Company. Producing catalyzers for hydrogenation. No. 1,331,904; Feb. 24; v. 271; p. 600.
Elder, Benjamin W., Los Angeles, Calif., assignor to The Allbright-Nell Company. Hydrogenation. No. 1,331,905; Feb. 24; v. 271; p. 600.
Elder, Benjamin W., Los Angeles, Calif., assignor to The Allbright-Nell Company. Producing catalyzers and for effecting hydrogenation thereby. No. 1,331,906; Feb. 24; v. 271; p. 601.
Eldgedge, John W. (See Lambert, John H., assignor.)
Eldredge, Clyde T., San Francisco, Calif. Track for highways. No. 1,332,820; Mar. 2; v. 272; p. 123.
Eldridge, George L., New Brunswick, N. J. Sign. No. 1,350,302; Aug. 24; v. 277; p. 594.
Eldridge, John J., and G. A. Dunn, Oakland, Calif. Method and apparatus for drying pulp hollow ware. No. 1,352,404; Sept. 7; v. 278; p. 131.
Electric Auto-Lite Corporation. (See Davies, Henry R., assignor.)
Electric Auto-Lite Corporation. (See Kohr, Norman C., assignor.)
Electric Auto-Lite Corporation. (See Post, Truman W., assignor.)
Electric Auto-Lite Corporation. (See Saxon, Hermon R., assignor.)
Electric Boat Company. (See Bedell, Charles H., assignor.)
Electric Boat Company. (See Doane, Lewis B., assignor.)
Electric Boat Company. (See Grieshaber, Hugo E., assignor.)
Electric Boat Company. (See Gunn, Thomas M., assignor.)
Electric Boat Company. (See Smith, Simeon B., assignor.)
Electric Controller & Manufacturing Company, The, (See Canfield, Harry R., assignor.)
Electric Controller & Manufacturing Company, The. (See Rippl, Charles H., assignor.)
Electric Controller & Manufacturing Company, The. (See Stratton, Harry F., assignor.)
Electric Controller & Manufacturing Company, The. (See Wright, Reuben I., assignor.) (Reissue.)
Electric Flasher Company. (See Wood, Herbert K., assignor.)
Electric Furnace Company, The. (See Baily, T. F., and Cope, assignors.)
Electric and Ordnance Accessories Company, The. (See Wood, Frederick, assignor.)
Electric Outlet Company. (See White, Ernest C., assignor.)
Electric Ozone Company, The. (See Willford, Arthur R., assignor.)
Electric Phonograph Co. (See Shigley, Cyrus C., assignor.)
Electric Railway Improvement Company, The. (See Crecelius, Lawrence P., assignor.)
Electric Railway Improvement Company, The. (See Kjellgren, John G., assignor.)
Electric Service Supplies Company. (See Darling, Lewis A., assignor.)
Electric Tachometer Corporation, The. (See Hopkins, Nevil M., assignor.)
Electric Vacuum Cleaner Company. (See Hoff, Earl B., assignor.)
Electric Vacuum Cleaner Company. (See Kirby, James B., assignor.)
Electric Vacuum Cleaner Company. (See Robertson, Elroy C., assignor.)
Electric Vacuum Cleaner Company. (See Rosenfield, William W., assignor.)
Electric Vapor Heater Company. (See Little, William F., assignor.)
Electric Vulcanizing Rubber Company, The. (See Burke, Wilbur B., assignor.)
Electric Water Sterilizer and Ozone Company. (See Hartman, Harry B., assignor.)
Electric Weighing Company. (See Messiter, Edwin H., assignor.)
Electrical Engineers Equipment Company. (See Getts, Frank E., assignor.)
Electrical Engineers' Equipment Company. (See Jacobs, Ernest H., assignor.)
Electro Chemical Company, The. (See Gerstle, John, assignor.)
Electro Chemical Company, The. (See McDorman, Paul, assignor.)
Electro Chemical Engraving Company, The. (See Jacobus, Nelson L., assignor.)
Electro Metallurgical Company. (See Becket, Frederick M., assignor.)

Digitized by Google

Electro Metallurgical Company. (See Critchett, James H., assignor.)
Electro Metallurgical Company. (See Mardick, J. R., and Becket, assignors.)
Electro Metallurgical Company. (See Mardick, John R., assignor.)
Electro-Metals Limited. (See Bibby, J., and Boving, assignors.)
Electro-Thermophore Company. (See Lidberg, Tiodolf, assignor.)
Electrolytic Oxy-Hydrogen Laboratories. (See Levin, Isaac H., assignor.)
Electrolytic Zinc Company. (See Avery, D., and Williams.)
Electrolytic Zinc Company. (See Stevens, Royale H., assignor.)
Electromatic System Company. (See Bucher, William W., assignor.)
Electron Chemical Company. (See Allen, H. I., and Fox, assignors.)
Electron Chemical Company. (See Allen, Herbert I., assignor.)
Electropure Dairy Company, The. (See Rudd, Harry B., assignor.)
Elektra Toy & Novelty Company. (See Whitehouse, John N., assignor.)
Elektrisk Varmeteknik A/S. (See Arntzen, A., and Trosdahl, assignors.)
Elektrochemische Werk G. m. b. H. (See Dreibrodt, Otto, assignor.)
Eleman, Charles, Chicago, Ill. Truss. No. 1,360,509; Nov. 30; v. 280; p. 867.
Elevator Company of America. (See Schakel, Jacob D., assignor.)
Elevator Supplies Company. (See Parsons, Levi L., assignor.)
Elevator Supply & Repair Company. (See Parsons, Levi L., assignor.)
Eley, James E., *et al.* (See Miske, Adolph, assignor.)
Eleyet, Levi W., G. L. Ewing, H. E. Mahan, and V. R. Eleyet, New Hampshire, Ohio. Automobile-towing device. No. 1,302,404; Dec. 14; v. 281; p. 330.
Eleyet, Vernon R. (See Eleyet, L. W., Ewing, Mahan, and Eleyet.)
Elfreth, Emily A., *et al.*, executors. (See Allen, Samuel L.)
Elfstrom, Roy A., Mineapolis, Minn. Door-knob with illuminating means. No. 1,331,959; Feb. 24; v. 271; p. 610.
Elgena, Fred C., Thompson, Pa. Rail-anchor. No. 1,355,949; Oct. 19; v. 279; p. 387.
Elgin Gas Motor Company. (See Thompson, Herbert L., assignor.)
Elgin National Watch Company. (See Hulburd, De Forest, assignor.)
Elgin National Watch Company. (See Hunter, George E., assignor.)
Elgin Rubber Ace Company. (See Dalbey, James H., assignor.)
Elgin Silk Waist Co. (See Goldstein, Abraham, assignor.)
Elgin Street Sweeper Co. (See Todd, Daniel M., assignor.)
Elia, Giovanni E., Rome, Italy, assignor to Vickers Limited, Westminster, London, England. Submarine mine. No. 1,346,309; July 13; v. 276; p. 256.
Elia, Giovanni E., assignor to Vickers Limited, Westminster, London, England. Submarine mine. No. 1,352,795; Sept. 14; v. 278; p. 246.
Elia, Giovanni E., Westminster, London, and T. K. North, deceased, F. K. North, administrator, Swaffam, England, assignors to Vickers Limited, Westminster, London, England. Submarine mine. No. 1,333,752; Mar. 16; v. 272; p. 411.
Elias, Abraham J. (See Stupar, Max, assignor.)
Elias, Abraham J. (See Stupar, Maximilian F., assignor.)
Elias, Perfecto M., and F. F. Llera, Tucson, Ariz. Soldering and melting apparatus. No. 1,329,270; Jan. 27; v. 270; p. 576.
Eliasoff, Abraham L., and C. Birnbaum, New York, N. Y. Mounting for cluster-tops for rings. No. 1,351,205; Aug. 31; v. 277; p. 832.
Eliasoff, Abraham L., and C. Birnbaum, New York, N. Y. Jewelry-clasp. No. 1,352,591; Sept. 14; v. 278; p. 205.
Eliason, Axel S. (See Myvalt, J., and Eliason.)
Eliason, Frithjof H., Newark, N. J. Tone-modifier for talking-machines. No. 1,334,601; Mar. 23; v. 272; p. 616.
Elleson, Cecelia A., executrix. (See Elleson, Chaimsonovitz P.)
Elleson, Chaimsonovitz P., deceased; C. A. Elleson, executrix, London, England. Electrical accumulator-plate. No. 1,357,548; Nov. 2; v. 280; p. 65.
Elite Manufacturing Company. (See Burkholder, John H., assignor.)
Elizonda, Fernando R., Mexico, Mexico. Device for automatically announcing orders and dangers to moving trains. No. 1,347,538; July 27; v. 276; p. 613.
Elizondo, José R., New York, N. Y. Attachment for combining collars and ties. No. 1,333,398; Mar. 9; v. 272; p. 283.
Elkington, Leigh A. (See Bourke, William, assignor.)
Elkins, Abraham, Bridgeport, Conn. Ash-sifting device. No. 1,344,493; June 22; v. 275; p. 747.
Elkins, Abraham, Bridgeport, Conn. Ash-sifting device. No. 1,351,631; Aug. 31; v. 277; p. 916.
Elkins, John C., Santa Rosa, Calif. Rail-joint. No. 1,334,602; Mar. 23; v. 272; p. 617.
Elkins, Lewis F., Pontiac, Mich. Die for spring-forming machines. No. 1,331,630; Feb. 24; v. 271; p. 548.
Elliard, Jefferson, Texhoma, Okla. Aeroplane. No. 1,343,498; June 15; v. 275; p. 486.
Elledge, Robert B., Tampa, Fla. Conveyer-chain and link thereof. No. 1,335,673; Mar. 30; v. 272; p. 879.
Eller, Orlando S. (See Vertunni, J., and Eller.)
Ellerbeck, William L., Salt Lake City, Utah. Tooth-polishing device. No. 1,335,825; Apr. 6; v. 273; p. 23.
Ellerman, August, Mellen, Wis. Agricultural implement. No. 1,333,477; Mar. 9; v. 272; p. 298.
Ellert, Charles O., Brooklyn, N. Y. Hair-waver. No. 1,349,609; Aug. 17; v. 277; p. 414.
Elliasson, William A., Bridgeport, Conn., assignor to Hamel Shoe Machinery Company. Lasting-machine. No. 1,349,192; Aug. 10; v. 277; p. 258.
Elling, Albert W., Latimer, Iowa. Air and gas mixer. No. 1,348,272; Aug. 3; v. 277; p. 28.
Elling, Jens W. A., assignor to A/S Myrens Verksted, Christiania, Norway. Arrangement for drying solid liquid-containing bodies. No. 1,347,501; July 27; v. 276; p. 606.
Ellinger, William H., Bonita, Tex. Well-drill wrench. No. 1,827,379; Jan. 6; v. 270; p. 93.
Ellington, Thomas H., Rice, Va. Wagon-reach coupling. No. 1,361,699; Dec. 7; v. 281; p. 145.
Elliot, Eloise F., San Antonio, Tex., assignor of one-half to M. F. Whittlesey, New London, Conn. Shoe-securing device. No. 1,344,996; June 29; v. 275; p. 908.
Elliot, William D., Big Timber, Mont. Paper-bag holder. No. 1,328,950; Jan. 27; v. 270; p. 516.
Elliot, William R., Riverhead, N. Y. Salt and pepper box. No. 1,349,716; Aug. 17; v. 277; p. 435.
Elliott, Alexander T., assignor of one-tenth to L. M. Freeman, Los Angeles, Calif. Chemical separation of ores. No. 1,327,536; Jan. 6; v. 270; p. 122.
Elliott, Andrew B., Toledo, Ohio. Electric fluid-heater. No. 1,360,510; Nov. 30; v. 280; p. 867.
Elliott, Arthur J. (See Weniger, William, assignor.)
Elliott, Clarence V., Baton Rouge, La. Carbureter. No. 1,336,288; Apr. 6; v. 273; p. 110.
Elliott, Cloa A., Marion, Ind. Screen-door brace. No. 1,340,161; May 18; v. 274; p. 417.
Elliott Company. (See Elliott, William S., assignor.)
Elliott Company. (See Mattern, J. F., and Stoner, assignors.)
Elliott-Fisher Company. (See Foothorap, Harry A., assignor.)
Elliott Frog & Switch Company. (See Shoup, S. E., and Fairback, assignors.)
Elliott, Gilbert R., Boston, Mass. Internal-combustion engine. No. 1,361,236; Dec. 7; v. 281; p. 51.
Elliott, Harold F., Palo Alto, assignor to A. Taylor, San Francisco, Calif. Radiotelegraphy. No. 1,352,883; Sept. 14; v. 278; p. 264.
Elliott, Harvey, and E. B. Ainsworth, Detroit, Mich. Eccentric chuck. No. 1,355,757; Oct. 12; v. 279; p. 309.
Elliott, James P., Chicago, Ill. Waterproof fibrous material and making same. No. 1,352,796; Sept. 14; v. 278; p. 247.
Elliott, Joseph H., Rockford, Ill. Garment-supporter. No. 1,331,457; Feb. 17; v. 271; p. 495.
Elliott, Thomas, assignor to The Cincinnati Car Company, Cincinnati, Ohio. Steel car construction. No. 1,335,224; Mar. 30; v. 272; p. 794.
Elliott, Thomas, assignor to The Cincinnati Car Company, Cincinnati, Ohio. Car-truck. No. 1,335,225; Mar. 30; v. 272; p. 794.
Elliott, William E., Grand Rapids, Mich., assignor to American Button & Fastener Company. Button-hopper and transfer-tube. No. 1,330,854; Feb. 17; v. 271; p. 381.
Elliott, William E., Grand Rapids, Mich., assignor to American Button & Fastener Company. Threading-machine. No. 1,336,777; Apr. 13; v. 273; p. 263.
Elliott, William E., Grand Rapids, Mich., assignor to American Button & Fastener Company. Mount for nails or the like. No. 1,337,212; Apr. 20; v. 273; p. 420.
Elliott, William H., Washington, D. C. Composite railway-tie. No. 1,331,809; Feb. 24; v. 271; p. 582.
Elliott, William S., assignor to Elliott Company, Pittsburgh, Pa. Turbine. No. 1,342,845; June 8; v. 275; p. 295.
Elliott, William S., Jr., New York, N. Y. Hydraulic water-forcing apparatus. No. 1,328,189; Jan. 13; v. 270; p. 297.
Ellis, Amos, Philadelphia, Pa. Shaving-brush case. No. 1,347,263; July 20; v. 276; p. 503.
Ellis, Arthur L., *et al.* (See Golata and Roberts, assignors.)
Ellis, Arthur T., assignor of one-half to H. A. Hands, London, England. Valve of internal-combustion engines. No. 1,329,321; Jan. 27; v. 270; p. 584.
Ellis, Carleton, Montclair, N. J. Paint and varnish remover. No. 1,328,080; Jan. 13; v. 270; p. 286.

Digitized by Google

Ellis, Carleton, Montclair, N. J. Making powdered metals and reduced metallic compounds. No. 1,329,322; Jan. 27; v. 270; p. 584.
Ellis, Carleton, Montclair, N. J. Making catalytic material. No. 1,329,323; Jan. 27; v. 270; p. 585.
Ellis, Carleton, Montclair, N. J. Composition adapted for making catalyzers. No. 1,335,161; Mar. 30; v. 272; p. 783.
Ellis, Carleton, Montclair, N. J. Hydrogen-circulation process. No. 1,342,668; June 8; v. 275; p. 258.
Ellis, Carleton, Montclair, N. J. Treating fatty oils. No. 1,343,255; June 15; v. 275; p. 439.
Ellis, Carleton, Montclair, N. J. Hydrogenation. No. 1,345,589; July 6; v. 276; p. 52.
Ellis, Carleton, Montclair, N. J., assignor to C. S. Lutkins, Rye, N.Y. Making a mixture of nitrogen and hydrogen. No. 1,327,029; Jan. 6; v. 270; p. 28.
Ellis, Carleton, Montclair, N. J., assignor to National Carbon Company, Inc., New York, N. Y. Battery and duplex element therefor. No. 1,331,456; Feb. 17; v. 271; p. 495.
Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Co. Desulfurizing cast-iron. No. 1,335,370; Mar. 30; v. 272; p. 822.
Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Making gas-oil. No. 1,341,975; June 1; v. 275; p. 71.
Ellis, Carleton, Montclair, N. J., assignor, by mesne assignments, to National Carbon Company, Inc., New York, N. Y. Depolarizing agent for dry batteries and making same. No. 1,358,626; Nov. 9; v. 280; p. 339.
Ellis, Carleton, Montclair, N. J., and H. S. Riederer, New York, N. Y. Concrete-hardening. No. 1,348,099; July 27; v. 276; p. 726.
Ellis, Carleton, and A. A. Wells, Montclair, N. J., assignors, by mesne assignments, to National Carbon Company, Inc., Cleveland, Ohio. Making conducting hydrated black manganese dioxid. No. 1,330,738; Feb. 10; v. 271; p. 292.
Ellis, Carleton, and A. A. Wells, Montclair, N. J., assignors, by mesne assignments, to National Carbon Company, Inc., New York, N. Y. Dry battery. No. 1,355,899; Oct. 19; v. 279; p. 378.
Ellis, Charles E. (See Banta, Leonard A., assignor.)
Ellis, Charles P. (See Harding, John, assignor.)
Ellis, Clark P., Conneaut Lake, Pa. Saw-set. No. 1,342,327; June 1; v. 275; p. 139.
Ellis, Claude, Springville, N. Y. Window, screen, and sash locker. No. 1,360,628; Nov. 30; v. 280; p. 890.
Ellis, Clyde W., Woodbury, Ky. Egg-candler. No. 1,345,151; June 29; v. 275; p. 938.
Ellis Drier & Elevator Company. (See Ellis, Hubert C., assignor.)
Ellis-Foster Company. (See Darling, Elton R., assignor.)
Ellis-Foster Company. (See Ellis, Carleton, assignor.)
Ellis-Foster Company. (See Wells, Alfred A., assignor.)
Ellis, Ferrand F., assignor to Oneida Community, Limited, Oneida, N. Y. Game-trap. No. 1,349,717; Aug. 17; v. 277; p. 435.
Ellis, Frank A., Jr., Denver, Colo. Rope-measuring device. No. 1,340,218; May 18; v. 274; p. 427.
Ellis, George H., St. Paul, Minn. Machine for molding lath-boards. No. 1,343,909; June 22; v. 275; p. 632.
Ellis, Hallett D., Kansas City, Mo., assignor to H. G. Miller, Los Angeles, Calif. Automobile theft-signal. (Reissue.) No. 14,956; Oct. 12; v. 279; p. 318.
Ellis, Harry E., Leesburg, Fla. Caterpillar-tractor swamp-harvester. No. 1,344,624; June 29; v. 275; p. 838.
Ellis, Harry E., Leesburg, Fla. Apparatus and process for producing pulp. No. 1,344,625; June 29; v. 275; p. 838.
Ellis, Harry E., Leesburg, Fla. Aquatic-plant harvester. No. 1,344,626; June 29; v. 275; p. 838.
Ellis, Harry E., Leesburg, Fla. Crusher and shredding machine. No. 1,358,302; Nov. 9; v. 280; p. 273.
Ellis, Hartley, Cleveland, Ohio. Metal barrel or receptacle. No. 1,341,304; May 25; v. 274; p. 705.
Ellis, Hubert C., Evanston, assignor to Ellis Drier & Elevator Company, Chicago, Ill. Grain-drier. No. 1,327,863; Jan. 13; v. 270; p. 245.
Ellis, Hubert C., Evanston, assignor to Ellis Drier & Elevator Company, Chicago, Ill. Grain-drier. No. 1,331,983; Feb. 24; v. 271; p. 615.
Ellis, Hubert C., Evanston, assignor to Ellis Drier & Elevator Company, Chicago, Ill. Radiator. No. 1,355,218; Oct. 12; v. 279; p. 205.
Ellis, James M., Canton, Ill. Equalizer. No. 1,346,097; July 6; v. 276; p. 152.
Ellis, John F., Huntington, W. Va. Laying-cabinet. No. 1,342,434; June 8; v. 275; p. 214.
Ellis, Joseph, Chicago, Ill., assignor to Featheredge Rubber Company. Making rubber-type stamps. No. 1,331,169; Feb. 24; v. 271; p. 649.
Ellis, Lemuel L. and S. J., Alpaugh, Calif.; said L. L. Ellis assignor to said S. J. Ellis. Corn-header. No. 1,363,099; Dec. 21; v. 281; p. 517.
Ellis, Ridsdale, Oak Park, Ill., assignor to P. Carpenter, Glenview, Ill. Heater for cooling systems. No. 1,345,923; July 6; v. 276; p. 117.
Ellis, Roy J. (See Carpenter, C. C., and Ellis.)
Ellis, Samuel J. (See Ellis, Lemuel L. and S. J.)
Ellis, Stuart, Fredericksburg, Va. Spacer or separator for eggs. No. 1,334,603; Mar. 23; v. 272; p. 617.
Ellis, Warren E., assignor of one-half to W. M. Traylor, Lebo, Kans. Valve-actuating mechanism. No. 1,346,401; July 13; v. 276; p. 273.
Ellis, Warren E., assignor of one-half to W. N. Traylor, Lebo, Kans. Air-pump. No. 1,356,857; Oct. 26; v. 279; p. 613.
Ellis, William M. (See Blankinship and Ellis.)
Ellis, William M., and E. E. Sherman, Patoka, Ill. Piston-rod journal-bearing. No. 1,347,687; July 27; v. 276; p. 643.
Ellis, William T., Goodsprings, Nev. Power-transmitting attachment for motor-vehicles. No. 1,362,243; Dec. 14; v. 281; p. 299.
Ellison, Edward H., Jamestown, N. Y. Pedal-accelerator for automobiles. No. 1,361,374; Dec. 7; v. 281; p. 79.
Ellison, Emil E., Litchville, N. D. Wheel attachment. No. 1,357,448; Nov. 2; v. 280; p. 47.
Ellison, James E. (See Evans, G. A., and Ellison.)
Ellison, Oliver, Wasco, Calif. Receptacle for matches. No. 1,345,078; June 29; v. 275; p. 924.
Ellison, Thomas J., Terrill, Ky. Seed-dropping mechanism. No. 1,342,948; June 8; v. 275; p. 315.
Elik, William, Pittsburgh, assignor of one-half to J. Sinkovitz, Carrick, Pa. Crushing-machine. No. 1,352,797; Sept. 14; v. 278; p. 246.
Ellmann, Ernest E., F. A. Kell, and L. L. Zacharias, St. Louis, Mo.; said Kell and said Zacharias assignors to said Ellmann. Nut-lock. No. 1,351,235; Aug. 31; v. 277; p. 838.
Ellmauer, Josef, Milwaukee, Wis. Automatic sealer and lubricator for refrigerating-compressors. No. 1,336,076; Apr. 6; v. 273; p. 70.
Elms, Joseph W., Lakewood, Ohio. Apparatus for water purification. No. 1,362,611; Dec. 21; v. 281; p. 422.
Ellsworth, Fred. (See Patterson, William H., assignor.)
Ellsworth, Ross J., Philadelphia, Pa. Caster-connecting device. No. 1,346,641; July 13; v. 276; p. 321.
Ellsworth, Ross J., assignor to Bernstein Manufacturing Company, Philadelphia, Pa. Rest for springs on bedstead side rails. No. 1,357,317; Nov. 2; v. 280; p. 23.
Ellsworth, Ross J., assignor to Bernstein Manufacturing Company, Philadelphia, Pa. Couch, lounge, or cot. No. 1,363,764; Dec. 28; v. 281; p. 686.
Ellsworth, Walter C., New York, N. Y. Ribbon or tape needle. No. 1,351,418; Aug. 31; v. 277; p. 875.
Ellsworth, William B., Hudson, Ohio. Tuning-pin polisher. No. 1,329,701; Feb. 3; v. 271; p. 66.
Ellwein, Frederick, Hazen, N. D. Steering device for motor-vehicles. No. 1,337,830; Apr. 20; v. 273; p. 537.
Elman, Samuel, Syracuse, N. Y. Garment-trimming machine. No. 1,338,291; Apr. 27; v. 273; p. 694.
Elman, Samuel, Syracuse, N. Y. Sadiron. No. 1,349,052; Aug. 10; v. 277; p. 230.
Elmblad, Hjalmar, Chicago, Ill. Writing-machine. No. 1,352,405; Sept. 7; v. 278; p. 132.
Elmen, George P., Lincoln, Nebr. Vibrator. No. 1,339,179; May 4; v. 274; p. 98.
Elmendorf, Armin, Madison, Wis. Fuselage. No. 1,338,564; Apr. 27; v. 273; p. 745.
Elmer, Carl. (See Strömberg, C. B., Nielsen, and Elmer.)
Elmer, David H., Centerville, Calif. Fruit-cutter. No. 1,342,207; June 1; v. 275; p. 117.
Elmore, Frank E., Boxmoor, England. Extraction of lead and zinc from their ores. No. 1,346,642; July 13; v. 276; p. 321.
Elmore, Frank E., Boxmoor, England. Extraction of lead from its ores. No. 1,350,959; Aug. 24; v. 277; p. 721.
Elmore, Guy H., Swarthmore, Pa. Jig. No. 1,327,537; Jan. 6; v. 270; p. 123.
Elmore, Guy H., Swarthmore, Pa. Centrifugal drier. No. 1,334,023; Mar. 16; v. 272; p. 462.
Elmore, Guy H., Swarthmore, Pa. Centrifugal drier. No. 1,342,743; June 8; v. 275; p. 273.
Elmore, Guy H., Swarthmore, Pa. Centrifugal pump. No. 1,357,628; Nov. 2; v. 280; p. 81.
Elmore, Guy H., Swarthmore, and Harry L. McLean, Scranton, Pa. Discharge control for jigs and like machines. No. 1,350,647; Aug. 24; v. 277; p. 661.
Elmstrom, Anshelm B., assignor to Standard Manufacturing Company, Worcester, Mass. Shoe-stretcher. No. 1,349,333; Aug. 10; v. 277; p. 286.
Elmstrom, Carl A., Worcester, Mass. Riveting-machine. No. 1,335,227; Mar. 30; v. 272; p. 794.
Elmstrom, Robert M., Swampscott, Mass. Shoe-stretcher. No. 1,335,226; Mar. 30; v. 272; p. 794.
Elrod, Benjamin S., Omaha, Nebr. Pin-dispenser. No. 1,339,503; May 11; v. 274; p. 234.
Elrod, Henry E., Company. (See Lacy, Benjamin B., assignor.)
Elsässische Maschinenbau Gesellschaft. (See Wenning, Jean, C. A., assignor.)
Elsey, Brodehurst, C. F. Zwick, Indianapolis, and H. C. Lawson, Richmond, Ind. Glove. No. 1,333,395; Mar. 9; v. 272; p. 282.
Elsinger, Francis W., and O. Schmidt, Hartford, Wis. Reeling and unreeling device. No. 1,334,361; Mar. 23; v. 272; p. 571.
Elson, Jacob, New York, N. Y. Collar-holder. No. 1,347,999; July 27; v. 276; p. 706.

Digitized by Google

Elston, Urial A., Wilkes-Barre, Pa. Cutter-head. No. 1,358,533; Nov. 9; v. 280; p. 820.
Elton, James O. (See Laist, F., and Elton.)
Elton, James O., Great Falls, and R. B. Caples, Cascade, assignors to Anaconda Copper Mining Company, Anaconda, Mont. Treating residues containing zinc, copper, and cadmium. No. 1,343,619; June 15; v. 275; p. 510.
Elton, Olaf, Port Washington, Wis. Chair-iron. No. 1,335,883; Apr. 6; v. 273; p. 34.
Elton, Olaf, Port Washington, Wis. Chair adjustment. No. 1,335,884; Apr. 6; v. 273; p. 34.
El Vean, John A., assignor of one-half to C. A. Morrisette, Norfolk, Va. Parachute. No. 1,341,794; June 1; v. 275; p. 36.
Elvyn, Jacob W., Chicago, Ill. Indicator. No. 1,350,303; Aug. 24; v. 277; p. 594.
Elwell, George H., Detroit, Mich., assignor to C. F. Hardon, trustee, Brookline, Mass. Door-latch. No. 1,356,612; Oct. 26; v. 279; p. 564.
Elwood, James W., *et al.* (See Bonney, Bick R., assignor.)
Ely, Edwin S., *et al.* (See Clark, Cornelius S., assignor.)
Ely, Frank D., Tientsin, China. Firearm control. No. 1,329,280; Jan. 27; v. 270; p. 568.
Ely, Sumner A., New York, N. Y. Apparatus for grinding internal and external surfaces to fit. No. 1,332,437; Mar. 2; v. 272; p. 51.
Elyria Iron and Steel Company. (See Copland, James P., assignor.)
Elyria Specialty Company, The. (See Hollingsworth, Thomas L., assignor.)
Elzey, Edgar P., assignor to The Au-To Play Goods Company, Parkersburg, W. Va. Folding chair for porch-swings and the like. No. 1,361,700; Dec. 7; v. 281; p. 145.
Elzinga, William T., Mill Valley, Calif. Dental-floss holder. No. 1,332,170; Feb. 24; v. 271; p. 649.
Emanuel, Philip A., Aiken, S. C. Gas-battery. No. 1,359,881; Nov. 23; v. 280; p. 675.
Embach, Mathew P., and J. L. Bruce, Holdenville, Okla. Door-fastener. No. 1,335,100; Mar. 30; v. 272; p. 772.
Embree, Herbert, Hamilton, Ontario, Canada. Mantle-sewing machine. No. 1,342,669; June 8; v. 275; p. 258.
Embrey, Earle, New Albany, Ind. Method of and means for tying with wire. No. 1,331,560; Feb. 24; v. 271; p. 534.
Embrey, Laurence, Fenton, England. Apparatus for working dough and the like. No. 1,334,024; Mar. 16; v. 272; p. 462.
Embrey, Laurence, Fenton, England. Dough-proving apparatus. No. 1,334,025; Mar. 16; v. 272; p. 463.
Emby, Donald H. (See Mooney, D. J., and Emby.)
Emca Manufacturing Company, The. (See Delaney, James T., assignor.)
Emco Manufacturing Company. (See Taber, George H., assignor.)
Emens, Albert L., assignor to Sangamo Electric Company, Springfield, Ill. Cord-terminal for electric wires. No. 1,335,943; Apr. 6; v. 273; p. 45.
Emerick, Frank A. (See Mitchell, R. A., and Emerick.)
Emerick, George S., assignor to Emerick Mill Co., Easton, Pa. Air-separator. No. 1,355,596; Oct. 12; v. 279; p. 278.
Emerick Mill Co. (See Emerick, George S., assignor.)
Emerson, Arthur, Yale, Mich. Rule-holder. No. 1,363,765; Dec. 28; v. 281; p. 686.
Emerson-Brantingham Company. (See Clay, Harry C., assignor.)
Emerson-Brantingham Company. (See Davis, Calvin R., assignor.)
Emerson-Brantingham Company. (See North, William A., assignor.)
Emerson-Brantingham Company. (See Traphagen, Harry R., assignor.)
Emerson-Brantingham Company. (See Waterman, Lewis E., assignor.
Emerson, Charles H., Joliet, Ill. Car-uncoupling lever. No. 1,356,521; Oct. 26; v. 279; p. 547.
Emerson, Cyrus J., Westfield, Mass. Toy cannon. No. 1,332,490; Mar. 2; v. 272; p. 60.
Emerson Electric Manufacturing Company, The. (See Winter, W. G., and Finch, assignors.)
Emerson, Frank L., Mountain View, Calif. Machine for spreading fruit. No. 1,332,866; Mar. 2; v. 272; p. 131.
Emerson, George A., assignor of one-half to H. S. Bagley, San Francisco, Calif. Portable elevator. No. 1,336,949; Apr. 13; v. 273; p. 296.
Emerson, George B., and C. E. Buysse, Detroit, Mich. Mixing-valve. No. 1,351,236; Aug. 31; v. 277; p. 838.
Emerson, Marshall F., Cambria, Ill. Automatic gate. No. 1,334,992; Mar. 30; v. 272; p. 751.
Emerson, Ono B., assignor of one-fifth to F. C. Schultz, Allison, Iowa. Ice-making appliance. No. 1,335,319; Mar. 30; v. 272; p. 812.
Emerson Phonograph Co. (See Emerson, Victor H., assignor.)
Emerson Phonograph Company. (See Emerson and Pierman, assignors.)
Emerson, Stephen, Sr., Philadelphia, Pa. Sidewalk-sign fastener and protector, centrally operated. No. 1,356,056; Oct. 19; v. 270; p. 408.
Emerson, Victor H., New York, N. Y., assignor to Emerson Phonograph Co., Inc. Sound-record tablet and producing same. No. 1,341,740; June 1; v. 275; p. 25.
Emerson, Victor H., New York, N. Y., assignor to Emerson Phonograph Company, Inc., Talking-machine. No. 1,345,756; July 6; v. 276; p. 84.
Emerson, Victor H., New York, N. Y. Manufacturing sound-records. No. 1,353,522; Sept. 21; v. 278; p. 448.
Emerson, Victor H., assignor to Voice Recorder Company, Inc., New York, N. Y. Device for repointing phonograph needles. No. 1,360,511. Nov. 30; v. 280; p. 867.
Emerson, Victor H., New York, N. Y., and A. N. Pierman, Newark, N. J., assignors to Emerson Phonograph Company, Inc., New York, N. Y. Record-surfacing and production thereof. No. 1,328,871; Jan. 20; v. 270; p. 378.
Emerson, Victor L., Philadelphia, Pa. Apparatus for distillation. No. 1,337,831; Apr. 20; v. 273; p. 537.
Emerson, Victor L., Philadelphia, Pa. Apparatus for the conversion of hydrocarbon-oils. No. 1,346,797; July 13; v. 276; p. 353.
Emerson, Victor L., Philadelphia, Pa. Conversion of hydrocarbon-oils. No. 1,346,798; July 13; v. 276; p. 353.
Emerson, Victor L., Philadelphia, Pa. Closure for boiler-headers. No. 1,352,254; Sept. 7; v. 278; p. 104.
Emerson, Victor L., Philadelphia, Pa. Safety-damper for oil-stills and the like. No. 1,352,255; Sept. 7; v. 278; p. 104.
Emerson, Victor L., Philadelphia, Pa. Apparatus for distillation or the like. No. 1,356,057; Oct. 19; v. 279; p. 409.
Emerson, William F., Buffalo, N. Y. Coaster-brake. No. 1,340,386; May 18; v. 274; p. 459.
Emerson, William F., Buffalo, N. Y. Lubricating shackle-bolt. No. 1,355,950; Oct. 19; v. 279; p. 387.
Emerson, William F., Buffalo, N. Y., assignor to General Motors Corporation, Detroit, Mich. Driving and coasting mechanism for bicycles. No. 1,361,757; Dec. 7; v. 281; p. 156.
Emery, Frank A. (See Adams, A. A., and Emery.)
Emery, Frank A., Quincy, and A. A. Adams, Brookline, assignors, by mesne assignments, to Boston Scale and Machine Co., Boston, Mass. Weighing-machine. No. 1,344,295; June 22; v. 275; p. 708.
Emery, Oscar R., Milwaukee, Wis. Mud and dust shield for automobiles. No. 1,352,798; Sept. 14; v. 278; p. 247.
Emery, Plato G., Chicago, Ill. Holding device for window-shades. No. 1,327,150; Jan. 6; v. 270; p. 51.
Emery, Ralph T., Cleveland, Ohio. Trunk-band. No. 1,353,814; Sept. 21; v. 278; p. 506.
Emery, Raymond D., assignor to W. M. Whitney, Winchendon, Mass. Woodworking-machine. No. 1,337,695; Apr. 20; v. 278; p. 512.
Emhardt, John C., assignor to E. I. du Point de Nemours & Company, Wilmington, Del. Fireproof composition. No. 1,329,386; Feb. 3; v. 271; p. 8.
Emley, Joseph C., Melrose Park, Pa. Brick. No. 1,330,249; Feb. 10; v. 271; p. 201.
Emmert, George W., assignor to The Clamert Manufacturing Company, Pittsburgh, Pa. License-plate holder. No. 1,340,387; May 18; v. 274; p. 459.
Emmert, Gus. (See Tischer, Edward R., assignor.)
Emmert, John R., Chicago, Ill. Barber's chair. No. 1,347,264; July 20; v. 276; p. 503.
Emmert, William H., Chicago, Ill. Game device. No. 1,345,914; July 6; v. 276; p. 116.
Emmet, William L. R., Schenectady, N. Y., assignor to General Electric Company. Propulsion of submarine vessels. No. 1,345,757; July 6; v. 276; p. 84.
Emmet, William L. R., Schenectady, N. Y., assignor to General Electric Company. Elastic fluid turbine. No. 1,362,405; Dec. 14; v. 281; p. 330.
Emmons, Charles L., Cranford, N. J., assignor to The Aeolian Company. Adjustable tracking device. No. 1,330,065; Feb. 10; v. 271; p. 166.
Emmrick, Hans B., Giddings, Tex. Shutter-actuating apparatus. No. 1,344,997; June 29; v. 275; p. 908.
Emory, Elmer E., Canonsburg, Pa. Adjustable lifting mechanism. No. 1,352,884; Sept. 14; v. 278; p. 264.
Empire Cream Separator Company. (See Macartney, Arthur C., assignor.)
Empire Machine Company. (See Steimer, Theodore C., assignor.)
Empire Tinware Company, The. (See Breakstone, Samuel, assignor.)
Empson, Frederick J., Sydney, New South Wales, Australia. Talking-machine. No. 1,340,531; May 18; v. 274; p. 486.
Emrick, Burt, Jackson, Mich. Bottle-closure. No. 1,348,273; Aug. 3; v. 277; p. 29.
Enameled Metals Company. (See McIlroy, Peter, assignor.)
Enameled Steel Sign Company. (See Bacon, William M., assignor.)
Enberg, Elmer, Aitkin, Minn. Runner for side cars. No. 1,345,321; June 29; v. 275; p. 971.
Enberg, John C., Skärsätra, Sweden. Calculating-machine. No. 1,341,049; May 25; v. 274; p. 656.
Enck, Walter B. (See Rose, H. B., and Enck.)
Enders, Gustav A., Boston, Mass. Cornet, trumpet, and the like. No. 1,328,038; Jan. 13; v. 270; p. 278.

Digitized by Google

Endlessgraph Manufacturing Company. (See Gonsky, Peter R., assignor.)
Endres, Lawrence M. (See Endres, Michael A., and L. M.)
Endres, Michael A. and L. M., Cross Plains, Wis. Sectional wheel-rim. No. 1,337,446; Apr. 20; v. 273; p. 464.
Endreson, John, Brooklyn, N. Y. Life-buoy. No. 1,332,171; Feb. 24; v. 271; p. 649.
Endstrom, Karl A., Denver, Colo., assignor of one-half to The Weiss Instrument Company. Binocular telescope. No. 1,346,308; July 13; v. 276; p. 256.
Engel, Albert W., Chicago, Ill. Gummed seal. No. 1,351,559; Aug. 31; v. 277; p. 903.
Engel, Albert W., Chicago, Ill. Picture-mounting device. No. 1,351,560; Aug. 31; v. 277; p. 903.
Engel, Arthur, Chicago, Ill. Case-holder for books. No. 1,330,250; Feb. 10; v. 271; p. 201.
Engel, August F., Defiance, Ohio. Tire-holder. No. 1,346,083; July 6; v. 276; p. 150.
Engel, Henry, and E. Feldman, New York, N. Y. Window and wall cleaner. No. 1,352,122; Sept. 7; v. 278; p. 79.
Engel, Herman C. (See Ketler, William H., assignor.)
Engel, John, Green Bay, Wis. Machine for applying paint to embossed designs. No. 1,328,081; Jan. 13; v. 270; p. 286.
Engel, Karl, Arlington Heights, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. No. 1,360,277; Nov. 30; v. 280; p. 822.
Engel, Karl, Arlington Heights, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Making boots and shoes. No. 1,360,378; Nov. 30; v. 280; p. 842.
Engel, William C., assignor of one-third to E. L. Hohenstein and one-third to F. Schott, St. Louis, Mo. Lifting-jack. No. 1,341,305; May 25; v. 274; p. 705.
Engelberg, Arthur, Oakland, Calif. Telephone receiver and receiver-switch. No. 1,337,892; Apr. 20; v. 273; p. 550.
Engelbrecht, Julius, Boone, Colo. Carrying-truck. No. 1,345,667; July 6; v. 276; p. 66.
Engelbrecht, Julius, Boone, Colo. Scraper. No. 1,355,134; Oct. 12; v. 279; p. 188.
Engelhard, Frank. (See Engelhard, William A., F., and F. H.)
Engelhard, Frederick H. (See Engelhard, William A., F., and F. H.)
Engelhard, William A., F., and F. H., Springfield, Mass. Float. No. 1,347,217; July 20; v. 276; p. 493.
Engelmann, Carl E. A., and P. W. Hubbe, Brooklyn, N. Y. Gage. No. 1,330,311; Feb. 10; v. 271; p. 211.
Engelmann, Edward W., and W. T. MacDonald, Hayden, Ariz. Aeration-cell for flotation apparatus. No. 1,344,123; June 22; v. 275; p. 674.
Engels, Oswald, Flint, Mich. Tool-holder. No. 1,351,632; Aug. 31; v. 277; p. 917.
Engen, John, Bynesset, Bodsberg, assignor to Landhusholdningsselskapernes, Faelleskjöp, Christiania, Norway. Ditch-digging machine. No. 1,335,674; Mar. 30; v. 272; p. 879.
Enger, T. K., Christiania, Norway, assignor to Thomson Electric Welding Company, Boston, Mass. Electric metal-working apparatus. No. 1,358,428; Nov. 9; v. 280; p. 300.
Engh, Nels J., Elko, Minn. Draw-bar coupling. No. 1,362,857; Dec. 21; v. 281; p. 470.
Engineering Products Corporation. (See Burlingham, William, assignor.)
England, Henry, Chicago, Ill. Fishing-tackle. No. 1,339,697; May 11; v. 274; p. 272.
Englander, Benjamin B., assignor to Englander Spring Bed Company, Brooklyn, N. Y. Supporting means for hammocks. No. 1,357,282; Nov. 2; v. 280; p. 16.
Englander Spring Bed Company. (See Englander, Benjamin B., assignor.)
Engle, Andrew, Mound Prairie township, Jasper county, assignor of one-half to J. J. Engle, Mound Prairie township, Iowa. Disposing of waste products and conserving chemical constituents thereof. No. 1,330,435; Feb. 10; v. 271; p. 235.
Engle, Andrew, assignor of one-half to J. J. Engle, Mound Prairie township, Jasper county, Iowa. Means for disposing of waste products and conserving chemical constituents thereof. No. 1,354,733; Oct. 5; v. 279; p. 57.
Engle, Charles G., Jackson, Mich. Padlock. No. 1,341,169; May 25; v. 274; p. 679.
Engle, Eugene W. (See White, Fred G., assignor.)
Engle, George S., Cranston, R. I., assignor to American Elementary Electric Company, Washington, D. C. Producing a double-copper-oxid plate. No. 1,356,197; Oct. 19; v. 279; p. 437.
Engle, George S., Cranston, R. I., assignor to American Elementary Electric Company, Washington, D. C. Making alkaline gelatinous electrolytes. No. 1,356,434; Oct. 19; v. 279; p. 483.
Engle, George S., assignor to American Elementary Electric Company, Washington, D. C. Double-copper-oxid battery element. No. 1,356,435; Oct. 19; v. 279; p. 483.
Engle, George S., assignor to American Elementary Electric Company, Washington, D. C. Electrolyte for primary batteries. No. 1,356,436; Oct. 19; v. 279; p. 483.
Engle, Isaiah G., Philadelphia, Pa. Valve. No. 1,329,231; Jan. 27; v. 270; p. 569.
Engle, James J. (See Engle, Andrew, assignor.)
Engleman, Ernest E., Roanoke, Va. Water-pan for hot-air furnaces. No. 1,362,932; Dec. 21; v. 281; p. 484.
Engler, Charles, Austin, Tex. Cotton-chopper. No. 1,356,758; Oct. 26; v. 279; p. 593.
Engles, Albert F., and C. J. Rapp, Auburn, Nebr. Pneumatic liquid-pump. No. 1,362,858; Dec. 21; v. 281; p. 470.
English, Ada J., executrix. (See English, Philip M., assignor.)
English Electric Company, The. (See Seewer, Paul W., assignor.)
English, Fred S., assignor to The Babcock Printing Press Manufacturing Company, New London, Conn. Motor-support for printing-presses. No. 1,357,489; Nov. 2; v. 280; p. 54.
English, James and W. L., Chateaugay, N. Y. Package-tie. No. 1,331,699; Feb. 24; v. 271; p. 561.
English & Messick Co., The. (See Appleby, William H., assignor.)
English, Philip M., deceased, Bayonne, N. J., A. J. English, executrix. Flush-tank valve and appurtenances. No. 1,348,790; Aug. 3; v. 277; p. 127.
English, Samuel, Pittsburgh, Pa. Track-terminal. No. 1,334,896; Mar. 23; v. 272; p. 673.
English, Samuel, Pittsburgh, Pa. Track-gage retainer and adjuster. No. 1,363,100; Dec. 21; v. 281; p. 517.
English, William L. (See English, James and W. L.)
Englund, Carl R., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Resistance unit. No. 1,347,900; July 27; v. 276; p. 686.
Engman, Evald J., assignor to The Will & Baumer Company, Syracuse, N. Y. Hoisting apparatus for candle-finishing machines. No. 1,344,445; June 22; v. 275; p. 737.
Engman, Evald J., assignor to The Will & Baumer Company, Syracuse, N. Y. Candle-holder. No. 1,344,446; June 22; v. 275; p. 738.
Engstrom, Ivan, assignor to Hedman Manufacturing Company, Chicago, Ill. Combined adding-machine and check-protector. No. 1,334,743; Mar. 23; v. 272; p. 043.
Ennis, Laurence, Linthorpe, England. Means for transferring and handling metal plates or the like. No. 1,329,962; Feb. 3; v. 271; p. 115.
Enochs, C. D. (See Adsit, Frank W., assignor.)
Enochs, C. D., trustee. (See Thomasson, Hiram S., assignor.)
Enos, Alexander, Anchorage, Alaska. Permutation-padlock. No. 1,332,821; Mar. 2; v. 272; p. 124.
Enos, Alexander, Anchorage, Alaska. Trap. No. 1,342,328; June 1; v. 275; p. 139.
Enos, Richard E., Baltimore, Md. Shuttle tension. No. 1,340,330; May 18; v. 274; p. 448.
Enricht, Anna. (See Enricht, Louis, assignor.)
Enricht, Louis, assignor to A. Enricht, Farmingdale, N. Y. Spark-plug. No. 1,357,768; Nov. 2; v. 280; p. 108.
Enright, John W., New Orleans, La. Stationary chemical-mixing fire-extinguisher system. No. 1,353,466; Sept. 21; v. 278; p. 437.
Enright, William, assignor to Whitehead & Kales Iron Works, Detroit, Mich. Tractor-wheel. No. 1,363,461; Dec. 28; v. 281; p. 627.
Enriquez, Magdalena de los S., New York, N. Y. Lady's garter. No. 1,338,858; May 4; v. 274; p. 39.
Enscoe, Curwin. (See Kelly, John C., assignor.)
Ensfield, Clara E., Fennville, Mich. Crochet-needle. No. 1,358,067; Nov. 9; v. 280; p. 228.
Ensign, Emory S., New York, N. Y. Drive for calculating-machines. No. 1,331,561; Feb. 24; v. 271; p. 535.
Ensign, William B. (See Wadsworth, H. E., and Ensign.)
Enslin, Herbert E., Malden, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lacing-machine. No. 1,329,298; Jan. 27; v. 270; p. 580.
Enslin, Herbert E., Malden, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Edge-finishing machine. No. 1,331,056; Feb. 17; v. 271; p. 421.
Enslin, Herbert E., Malden, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for lacing shoe-uppers. No. 1,338,910; May 4; v. 274; p. 48.
Enslin, Herbert E., Malden, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Skiving-machine. No. 1,358,140; Nov. 9; v. 280; p. 242.
Ensminger, Frank R., Gilman, Iowa. Mold for making silo-staves. No. 1,354,543; Oct. 5; v. 279; p. 19.
Enström, Edvard, Lidköping, and E. H. W. Welbull, Gottenborg, Sweden. Back-pedaling brake and coaster. No. 1,346,118; July 13; v. 276; p. 218.
Ensworth, Neil C., Warren, Pa. Piston-ring tool. No. 1,354,034; Sept. 28; v. 278; p. 595.
Enterprise Bed Company. (See Locklin, Harley A., assignor.)
Enterprise Manufacturing Company. (See Adams, Walter L., assignor.)
Enterprise Manufacturing Company, The. (See Case, Francis M., assignor.)

Digitized by Google

Enterprise Manufacturing Company, The. (See Pflueger, Ernest A. and C. T., assignors.)
Enterprise Manufacturing Company of Pennsylvania, The. (See Punzelt, Edward E., assignor.)
Enterprise Railway Equipment Company. (See Batho, William F., assignor.)
Enterprise Railway Equipment Company. (See Campbell, Argyle, assignor.)
Entwisle, Ernest J., Morecambe, England. Manufacture of coir-yarn matting and in looms therefor. No. 1,355,320; Oct. 12; v. 279; p. 226.
Entwisle and Kenyon. (See Kenyon, W. H., and Shorrock, assignors.)
Entwistle, T. C., Company. (See Farrell, James E., assignor.)
Entz, Harvey H., Leesburg, Fla. Trousers. No. 1,359,973; Nov. 23; v. 280; p. 693.
Entz, Justus B., Cleveland, Ohio. Engine-starting and automobile-lighting system. No. 1,338,857; May 4; v. 274; p. 38.
Enz, Ezra. (See Abbott and Enz.)
Ephlin, Wendelend L., Chicago, Ill. Package pocket-guard for shipping-boxes. No. 1,361,318; Dec. 7; v. 281; p. 67.
Epperson, Landy D., Mount Washington, Mo. Rotary motor. No. 1,350,795; Aug. 24; v. 277; p. 690.
Eppler, Andrew, Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Shoe-sewing machine. No. 1,339,645; May 11; v. 274; p. 262.
Eppler, Andrew, Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sewing-machine. No. 1,355,824; Oct. 19; v. 279; p. 363.
Eppler, Andrew, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sewing-machine. No. 1,355,825; Oct. 19; v. 279; p. 363.
Eppler, Andrew, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole-pressing machine. No. 1,363,399; Dec. 28; v. 281; p. 614.
Eppler, John. (See Walter, Edward H., assignor.)
Eppler, John, Philadelphia, Pa. Machine for knitting lace-work. No. 1,327,228; Jan. 6; v. 270; p. 66.
Epps, Cecil L., Van Wert, Ohio. Furnace-casing. No. 1,351,633; Aug. 31; v. 277; p. 917.
Epps, Frank A., assignor, by mesne assignments, to Foamite Firefoam Company, New York, N. Y. Extinguishing fires. No. 1,355,951; Oct. 19; v. 279; p. 388.
Epps, Henry G., Waco, Tex. Coal-oil generator. No. 1,346,370; July 13; v. 276; p. 267.
Epright, Alonzo W., and W. H. Grindall, Altoona, Pa. Railway-track scale. No. 1,352,441; Sept. 14; v. 278; p. 175.
Equipment Corporation of America. (See Mosby, Alfred D.)
Eras, Vincent J. M., and H. J. J. M. Lips, Dordrecht, Netherlands. Fixing device of cylinder-locks. No. 1,343,712; June 15; v. 275; p. 529.
Erb, Cicero J., and W. J. Briant, Centralia, Wash. Railway-tie and fastener. No. 1,349,949; Aug. 17; v. 277; p. 479.
Erb, Clarence F., Youngstown, Ohio. Apparatus for recovering rubber from armored hose and the like. No. 1,349,752; Aug. 17; v. 277; p. 442.
Erb, Emil, New York, N. Y. Household article. No. 1,353,386; Sept. 21; v. 278; p. 421.
Erbe, Henry C., Java, S. D. Starter for internal-combustion engines. No. 1,331,631; Feb. 24; v. 271; p. 548.
Erbel, Adam, and J. Wuepper, Bay City, Mich. Automobile-wheel jack. No. 1,335,885; Apr. 6; v. 273; p. 34.
Erbes, Louis C., St. Paul, Minn. Tractor. No. 1,332,977; Mar. 9; v. 272; p. 205.
Erdahl, Sivert A., Madison, Minn. Apple cutter and corer. No. 1,328,503; Jan. 20; v. 270; p. 403.
Erdle, Reiner W., Weehawken, N. J., assignor to The Cold Light Manufacturing Company. Self-luminous indexhand. No. 1,330,180; Feb. 10; v. 271; p. 166.
Erdle, Reiner W., assignor to The Cold Light Manufacturing Company, Weehawken, N. J. Self-luminous device. No. 1,363,854; Dec. 28; v. 281; p. 704.
Erdley, Clarence A., Mifflinburg, Pa. Patch-holder. No. 1,352,799; Sept. 14; v. 278; p. 247.
Erdoes, Julius, and E. Sas, assignors to The Metallograph Corporation, New York, N. Y. Napkin-ring. No. 1,339,180; May 4; v. 274; p. 98.
Erdos, George G., New York, N. Y. Operating trains on multitrack city railways. No. 1,345,152; June 29; v. 275; p. 938.
Erenberg, Isador, *et al.* (See Bremer, Russell H., assignor.)
Erhardt, Oscar P., West Haven, Conn., assignor to The A. C. Gilbert Company, New Haven, Conn. Electric switch. No. 1,328,622; Jan. 20; v. 270; p. 425.
Erich, Reuben, San Jose, Calif. Washing-machine. No. 1,338,501; Apr. 27; v. 273; p. 734.
Erickson, August, assignor of one-half to A. Person, Minneapolis, Minn. Stove. No. 1,361,701; Dec. 7; v. 281; p. 145.
Erickson, Axel F., assignor to The Allsteelequip Company, Aurora, Ill. Lock-mounting plate. No. 1,327,426; Jan. 6; v. 270; p. 101.
Erickson, Axel F., assignor to Allsteelequip Company, Aurora, Ill. Drawer construction. No. 1,330,936; Feb. 17; v. 271; p. 398.
Erickson, Carl A. S., Norcross, Minn. Animal-trap. No. 1,327,229; Jan. 6; v. 270; p. 66.
Erickson, Claus E., Des Moines, Iowa. Drinking-cup package. No. 1,354,810; Oct. 5; v. 279; p. 73.
Erickson, Daniel. (See O'Donnell, E. F., and Erickson.)
Erickson, Edward. (See Johnson, L. E., Erickson, and Peterson.)
Erickson, Edward, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastening-inserting machine. No. 1,360,384; Nov. 30; v. 280; p. 842.
Erickson, Erick, Minneapolis, Minn. Sack-holder. No. 1,338,126; Apr. 27; v. 273; p. 663.
Erickson, Erick, Minneapolis, Minn. Bag-holder. No. 1,353,330; Sept. 21; v. 278; p. 410.
Erickson, Erick, Minneapolis, Minn. Hand-operated loading-machine. No. 1,360,279; Nov. 30; v. 280; p. 822.
Erickson, Frederic W., East Greenwich, R. I. Coupling for metal pipes. No. 1,352,256; Sept. 7; v. 278; p. 104.
Erickson, Gilbert O., Takoma Park, D. C. Collapsible hat-box. No. 1,331,330; Feb. 17; v. 271; p. 471.
Erickson, John, assignor to Automatic Electric Company, Chicago, Ill. Measured-service telephone system. No. 1,330,019; Feb. 3; v. 271; p. 126.
Erickson, John, assignor to Automatic Electric Company, Chicago, Ill. Relay. No. 1,330,020; Feb. 3; v. 271; p. 126.
Erickson, John, assignor to Automatic Electric Company, Chicago, Ill. Measured-service telephone system. No. 1,332,208; Mar. 2; v. 272; p. 6.
Erickson, John, assignor to Automatic Electric Company, Chicago, Ill. Relay. (Reissue.) No. 14,834; Apr. 6; v. 273; p. 133.
Erickson, John, assignor to Automatic Electric Company, Chicago, Ill. Relay. No. 1,342,256; June 1; v. 275; p. 126.
Erickson, John, assignor to Automatic Electric Company, Chicago, Ill. Measured-service telephone system. No. 1,349,373; Aug. 10; v. 277; p. 295.
Erickson, John, Chicago, Ill., assignor, by mesne assignments, to Automatic Electric Company. Automatic telephone system. No. 1,354,605; Oct. 5; v. 279; p. 32.
Erickson, John, assignor to Automatic Electric Company, Chicago, Ill. Measured-service telephone system. No. 1,358,945; Nov. 16; v. 280; p. 447.
Erickson, John, assignor to Madison Kipp Corporation, Madison, Wis. Lubricator. No. 1,359,584; Nov. 23; v. 280; p. 616.
Erickson, John E., St. Paul, Minn. Device for use in changing tires. No. 1,339,504; May 11; v. 274; p. 235.
Erickson, Leonard A., Dixon, Ill. Valve-lifter. No. 1,359,678; Nov. 23; v. 280; p. 634.
Erickson, Oscar G., Detroit, Mich. Internal-combustion engine. No. 1,331,632; Feb. 24; v. 271; p. 549.
Erickson, William, San Francisco, Calif. Rotary internal-combustion engine. No. 1,333,399; Mar. 9; v. 272; p. 283.
Ericson, Charles O., Helmetta, N. J. Grade-meter. No. 1,360,102; Nov. 23; v. 280; p. 719.
Ericson, Eric, Akron, Ohio. Clamp for tire-cores. No. 1,360,736; Nov. 30; v. 280; p. 912.
Ericson, John, assignor to D. Cole, Chicago, Ill. Temperature-controlling system for internal-combustion engines. No. 1,361,033; Dec. 7; v. 281; p. 10.
Erie Manufacturing Company. (See Riley, Patrick J., assignor.)
Erik, Emil, Ossining, assignor of twenty per cent. to E. I. Quick, Westchester county, and thirty per cent. to A. W. Harvey, New York, N. Y. Tractor-shoe-dirt eliminator. No. 1,346,186; July 13; v. 276; p. 231.
Erik, *née* Radstaake, Emilie, New York, N. Y. Mattress. No. 1,350,333; Aug. 24; v. 277; p. 600.
Eriksen, Hans J., Aarhus, Denmark. Double core-support for molding. No. 1,357,388; Nov. 2; v. 280; p. 36.
Erikson, Axel, Baltimore, Md. Knife-cleaner. No. 1,349,123; Aug. 10; v. 277; p. 244.
Eriksson, George L., Duluth, Minn. Decarbonizing and circulation-promoting attachment for internal-combustion engines. No. 1,356,437; Oct. 19; v. 279; p. 483.
Erkens, Rhenart F., New York, N. Y. Radiator for water-cooled motors. No. 1,355,900; Oct. 19; v. 279; p. 378.
Erler, Bruno G., and E. Roesler, Philadelphia, Pa. Resilient tire. No. 1,356,438; Oct. 19; v. 279; p. 484.
Erler, William C., Terre Haute, Ind. Bituminous composition. No. 1,329,232; Jan. 27; v. 270; p. 569.
Erlichman, Robert L., Philadelphia, Pa. Piston packing-ring. No. 1,354,287; Sept. 28; v. 278; p. 647.
Erlinger, Mary E. B., Belleville, Ill. Composition of matter to be used in painting. No. 1,356,913; Oct. 26; v. 279; p. 624.
Ernenwein, Philip J., New York, N. Y. Rubber tire. No. 1,360,907; Nov. 30; v. 280; p. 944.
Ernst, Charles K., Buffalo, N. Y. Truck or portable turntable for vehicles. No. 1,356,198; Oct. 19; v. 279; p. 437.
Ernst, George, Newark, N. J. Test-valve. No. 1,343,043; June 8; v. 275; p. 334.

Digitized by Google

Ernst, George F. (See De Vilbiss, J. A., and Miller, assignors.)
Ernst, Theodore, Bayfield, Wis. Baby's chair-table. No. 1,351,634; Aug. 31; v. 277; p. 917.
Erpenbeck, Theodore C., Chicago, Ill. Buckle. No. 1,353,331; Sept. 21; v. 278; p. 410.
Errett, Joseph, Cleveland, Ohio. Stake-rack iron. No. 1,331,144; Feb. 17; v. 271; p. 437.
Errett, Joseph, Cleveland, Ohio. Stake-socket. No. 1,333,396; Mar. 9; v. 272; p. 283.
Errett, Joseph, Cleveland, Ohio. Wind-shield holder. No. 1,338,004; Apr. 27; v. 273; p. 640.
Errett, Charles, New York, assignor to Public Service Cup Company, Brooklyn, N. Y. Fixture for drinking-cups. No. 1,343,965; June 22; v. 275; p. 643.
Errett, Thomas A., Seattle, Wash., assignor, by mesne assignments, to Modern Torch Co. Inc. Oxyacetylene cutting and welding torch. No. 1,335,569; Mar. 30; v. 272; p. 858.
Ersbler, Louis H., and M. Hendler, Hudson, N. Y. Bed-spring. No. 1,337,508; Apr. 20; v. 273; p. 476.
Erskine, James, Jersey City, N. J., assignor to William M. Crane Company. Heating apparatus. No. 1,342,991; June 8; v. 275; p. 323.
Erskine, James, Flint, Mich. Gage. No. 1,351,419; Aug. 31; v. 277; p. 875.
Erskine-Murray, James, and J. Robinson, Biggin Hill, England. Electromagnetic-wave navigational system. No. 1,342,257; June 1; v. 275; p. 126.
Ersley, Knud, Nijmegen, Netherlands. Improving tobacco. No. 1,331,331; Feb. 17; v. 271; p. 471.
Ersted, Alfred J., Portland, Oreg. Bale-tie. No. 1,350,860; Aug. 24; v. 277; p. 702.
Ertel, Charles M., Quincy, Ill. Power balling-press. No. 1,330,584; Feb. 10; v. 271; p. 262.
Ertl, Lorenz, Ivanhoe, Minn. Operating-table. No. 1,328,140; Jan. 13; v. 270; p. 297.
Erway, William E., Fort Erie, Ontario, Canada. Chain-pulling device. No. 1,359,160; Nov. 16; v. 280; p. 486.
Erwin, Benjamin H., assignor to National Veneer Products Company, Mishawaka, Ind. Double-acting trunk-closure. No. 1,354,606; Oct. 5; v. 279; p. 32.
Erwin, James B. and O. R., Milwaukee, Wis. Apparatus for generating foam for extinguishing fires. No. 1,340,601; May 18; v. 274; p. 500.
Erwin, Jeremiah, Chicago, Ill. Fluid dispenser and spreader. No. 1,340,028; May 11; v. 274; p. 334.
Erwin, Orlando R. (See Erwin, James B. and O. R.)
Erwin, Orlando R., and C. B. Flory, Wauwatosa, Wis., assignors to Foamite Firefoam Company, New York, N. Y. Apparatus for extinguishing fires. No. 1,331,466; Feb. 17; v. 271; p. 497.
Eschenbrenner, Henry W. (See Eschenbrenner, William E., assignor.)
Eschenbrenner, William E., assignor of one-half to H. W. Eschenbrenner, New York, N. Y. Chair-bed. No. 1,343,044; June 8; v. 275; p. 334.
Eschholz, Otto H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Arc-welding system. No. 1,329,233; Jan. 27; v. 270; p. 569.
Eschholz, Otto H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Arc-welding system. No. 1,343,199; June 15; v. 275; p. 429.
Eschholz, Otto H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Arc-welding system. No. 1,343,200; June 15; v. 275; p. 429.
Eschholz, Otto H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Arc-welding system. No. 1,343,201; June 15; v. 275; p. 429.
Eschholz, Otto H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric-arc-welding system. No. 1,343,203; June 15; v. 275; p. 429.
Eschholz, Otto H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric-arc-welding system. No. 1,343,204; June 15; v. 275; p. 429.
Eschholz, Otto H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric-arc-welding system. No. 1,343,206; June 15; v. 275; p. 430.
Eschholz, Otto H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric-arc-welding system. No. 1,343,207; June 15; v. 275; p. 430.
Eschholz, Otto H., Wilkinsburg, and H. Fahnoe, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Electric-arc-welding system. No. 1,343,202; June 15; v. 275; p. 429.
Eschholz, Otto H., Wilkinsburg, and H. Fahnoe, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Alternating-current welding system. No. 1,343,205; June 15; v. 275; p. 430.
Esdis Manufacturing Company. (See Hamilton, Paul H., assignor.)
Eshleman, David F., Waynesboro, Pa. Hay-elevator. No. 1,335,228; Mar. 30; v. 272; p. 795.
Eskholme, John W. (See Coyne, Frederick E., assignor.)
Eskilson, Sven A., Stockholm, Sweden. Apparatus for flinging off superfluous coating when tinning, painting, or the like. No. 1,327,278; Jan. 6; v. 270; p. 74.
Eskilson, Sven A., assignor to Aktiebolaget Salenius' Werkstader, Stockholm, Sweden. Inlet device for the whole-milk in centrifugal apparatus. No. 1,335,784; Apr. 6; v. 273; p. 16.
Esmarian, Garabed, and K. Kafafian, Paterson, N. J. Demountable rim. No. 1,353,573; Sept. 21; v. 278; p. 459.
Espeland, Franklin A., Oakes, N. D. Scrubbing-machine. No. 1,346,643; July 13; v. 276; p. 321.
Espenschied, Lloyd, Hollis, N. Y., assignor to American Telephone and Telegraph Company. Antenna structure. No. 1,353,735; Sept. 21; v. 278; p. 491.
Espenschied, Lloyd, assignor to American Telephone and Telegraph Company, Queens, N. Y. Plural modulation system. No. 1,361,522; Dec. 7; v. 281; p. 110.
Espenschied, Lloyd, Hollis, N. Y., assignor to American Telephone and Telegraph Company. Wireless receiving system. No. 1,362,612; Dec. 21; v. 281; p. 422.
Espenschied, Lloyd, assignor to American Telephone and Telegraph Company, Hollis, N. Y. Means for neutralizing interfering disturbances. No. 1,362,613; Dec. 21; v. 281; p. 422.
Esper, John J. (See Van Assche, Albert E., assignor.)
Esperson, Christian. (See Nelson, Frederick, assignor.)
Espinoza, Romolo J., Rosa, N. Mex. Cultivator. No. 1,353,574; Sept. 21; v. 278; p. 459.
Espy, Carl. (See Batchelor, Jamie H., assignor.)
Ess, Frank, Cincinnati, Ohio. Detachable shoe-tip protector for roller-skates. No. 1,351,509; Aug. 31; v. 277; p. 892.
Essentials Mfg. Company. (See Gibson, Adelbert R., assignor.)
Essex Motors. (See Baits, Stuart G., assignor.)
Essex Motors. (See Fekete, S. I., and Baits, assignors.)
Essex Motors. (See Fekete, Stephen I., assignor.)
Essex Motors. (See Huber, Emil, assignor.)
Essner, Eugene F., San Francisco, Calif., assignor to Bethlehem Shipbuilding Corporation, Ltd., Bethlehem, Pa. Machine for cutting off condenser-tubes. No. 1,328,089; Jan. 13; v. 270; p. 278.
Esson, Robert L., Johannesburg, Transvaal, South Africa. Loose-leaf binder. No. 1,337,124; Apr. 13; v. 273; p. 329.
Estate Stove Company, The. (See Kahn, Bertrand B., assignor.)
Estberg, William T., assignor to Penn Pressed Metal Co., Camden, N. J. Automobile-lock. No. 1,329,114; Jan. 27; v. 270; p. 547.
Estep, Jesse, assignor of fifty per cent. to N. Craft, McRoberts, Ky. Tripping device. No. 1,331,423; Feb. 17; v. 271; p. 488.
Estera, Manuel A. (See Bone, Roberto C., assignor.)
Esterline & Angus. (See Angus, Donald J., assignor.)
Estes, Elmer F., Lincoln, Nebr. Method and apparatus for sinking piling. No. 1,347,688; July 27; v. 276; p. 644.
Estes, Jerry M., Breckinridge, Okla. Derailer. No. 1,346,009; July 6; v. 276; p. 185.
Estes, Murray, St. Paul, Minn. Bed attachment. No. 1,356,613; Oct. 26; v. 279; p. 564.
Esteva-Ruiz & Co. (See Bone, Roberto C., assignor.)
Estève, Felix. (See Labrosse and Estève.)
Estey Organ Company. (See Haskell, William E., assignor.)
Estey Piano Co. (See Barnes, James W., assignor.)
Estey Piano Company. (See Lang, John R. A., assignor.)
Esturo, Raphael. New York, N. Y. Umbrella. No. 1,353,034; Sept. 14; v. 278; p. 293.
Etablissements Besnard, Maris & Antoine. (See Antoine, Marius, assignor.)
Etablissements Continsonza, Society Anonyme. (See Thevenin Georges, assignor.)
Etablissements Continsouza, Société Anonyme. (See Figour, Maurice, assignor.)
Etchells, John W., Brooklyn, N. Y. Manufacturer's hat-rack. No. 1,361,841; Dec. 14; v. 281; p. 219.
Etchison, Jesse F., Clovis, N. Mex. Window construction. No. 1,348,700; Aug. 3; v. 277; p. 110.
Etchison, Paul L., Musella, Ga. Gear-shift mechanism for mowing-machines. No. 1,352,800; Sept. 14; v. 278; p. 247.
Etiman, John M., Mapleton, N. D. Grain-car door. No. 1,359,344; Nov. 16; v. 280; p. 524.
Etrich, Ignaz, Oberaltstadt, near Trautenau, Bohemia. Process of and machine for treating, flax, straw, and the like. No. 1,331,332; Feb. 17; v. 275; p. 471.
Etrich, Ignaz, Oberaltstadt, near Trautenau, Bohemia. Heckling-machine. No. 1,331,333; Feb. 17; v. 271; p. 471.
Ette, Charles G., St. Louis, Mo. Traffic-directing signal for vehicles. No. 1,358,367; Nov. 9; v. 280; p. 287.
Etter, Harry C., Chambersburg, Pa. Non-skid device. No. 1,327,538; Jan. 6; v. 270; p. 123.
Ettler, John A., assignor of one-half to J. V. Oppel, San Francisco, Calif. Nut-lock. No. 1,350,404; Aug. 24; v. 277; p. 613.
Etzel, Frank E., Montclair, N. J. Air-valve for radiators. No. 1,347,216; July 20; v. 276; p. 493.
Etzel, John, East Pittsburgh, Pa. Garment-supporter. No. 1,328,504; Jan. 20; v. 270; p. 403.
Euard, George T., Bradford, Ill. Valve-spring lifter. No. 1,345,153; June 29; v. 275; p. 939.

Digitized by Google

Eubanks, Sayers D., Hillsboro, N. C. Check for pickersticks for looms. No. 1,353,387; Sept. 21; v. 278; p. 421.
Eubanks, Thomas G., and J. B. Bennett, Walla Walla, Wash. Plow-hitch. No. 1,354,288; Sept. 28: v. 278; p. 647.
Eulberg, John P., assignor of one-half to F. W. Wittenmeier, Chicago, Ill. Can-top and the like. No. 1,333,297; Mar. 9; v. 272; p. 264.
Eureka Screen Company. (See Rockwell, F. C., and Davis, assignors.)
Eureka Smokeless Furnace Company, The. (See Nilson, Andrew, assignor.)
Eustege, Thomas P., Wellington, New Zealand. Door-retainer. No. 1,353,523; Sept. 21; v. 278; p. 448.
Eustice, Alfred L., Chicago, Ill. Fuse. No. 1,330,066; Feb. 10; v. 271; p. 166.
Eustice, Alfred L., Chicago, Ill. Knife-blade fuse. No. 1,332,389; Mar. 2; v. 272; p. 42.
Eustice, Alfred L., Chicago, Ill. Fuse. No. 1,335,229; Mar. 30; v. 272; p. 795.
Eustice, Alfred L., Chicago, Ill. Plug-fuse. No. 1,344,296; June 22; v. 275; p. 708.
Eustice, Alfred L., Chicago, Ill. Fuse. No. 1,348,488; Aug. 3; v. 277; p. 70.
Eustice, Alfred L., assignor to Economy Fuse & Manufacturing Company, Chicago, Ill. Means for establishing electrical connections. No. 1,350,444; Aug 24; v. 277; p. 622.
Eustis, Augustus H., Milton, Mass. Recovering sulfur dioxid from gases. No. 1,341,114; May 25; v. 274; p. 668.
Eustis, Augustus H., Milton, Mass. Apparatus for recovering sulfur dioxid from gases. No. 1,341,115; May 25; v. 274; p. 668.
Eustis, Frederic A., Milton, Mass. Preparing fine ores for sintering and product thereof. No. 1,341,890; June 1; v. 275; p. 54.
Euston, Edwin, Scranton, Pa. Producing white lead. No. 1,349,334; Aug. 10; v. 277; p. 286.
Evangelist, Dominick, New York, N. Y. Folding chair. No. 1,341,050; May 25; v. 274; p. 656.
Evans, Alva A., Annona, Tex. Automatic train-stopping mechanism. No. 1,349,504; Aug. 10; v. 277; p. 320.
Evans, Andrew M. (See Windahl, Henry, assignor.)
Evans, Benjamin R., Eudora, Kans. Shirt-button. No. 1,348,985; Aug. 10; v. 277; p. 217.
Evans, Carl, Battle Creek, Mich. Ventilator. No. 1,352,257; Sept. 7; v. 278; p. 104.
Evans, Charles S., Berkeley, Calif. Vise. No. 1,347,623; July 27; v. 276; p. 631.
Evans, Charles S., Berkeley, Calif. Puzzle. No. 1,356,703; Oct. 26; v. 279; p. 582.
Evans, Clarence T. (See Morse, W. S., and Evans.)
Evans, Clarence T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Tension device. No. 1,343,910; June 22; v. 275; p. 633.
Evans, Clarence T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Circuit-breaker. No. 1,360,280; Nov. 30; v. 280; p. 822.
Evans, Clarence T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric switch. No. 1,360,281; Nov. 30; v. 280; p. 822.
Evans, Daniel W., Scranton, Pa. Draft-rigging for tractors. No. 1,347,448; July 20; v. 276; p. 539.
Evans, David C., assignor to Pioneer Suspender Company, Cincinnati, Ohio. Garter attachment. No. 1,354,095; Sept. 28; v. 278; p. 608.
Evans, Edgar A., Victoria, British Columbia, Canada. Spark arrester and quencher. No. 1,329,115; Jan. 27; v. 270; p. 547.
Evans, Edwin B. (See Page, Louis A., assignor.)
Evans, Ethel, Wenatchee, Wash. Tree-barking tool. No. 1,352,057; Sept. 7; v. 278; p. 67.
Evans, Francis J., Burbank, Wash. Pump-actuating mechanism. No. 1,347,739; July 27; v. 276; p. 654.
Evans, Frank O., Chicago, Ill. Stave. No. 1,356,347; Oct. 19; v. 279; p. 467.
Evans, Frank O., Chicago, Ill. Stave. No. 1,356,348; Oct. 19; v. 279; p. 467.
Evans, Franklin J., West Hazleton, Pa. Positioning-button. No. 1,329,234; Jan. 27; v. 270; p. 569.
Evans, Fred, Summit, N. J. Recording-machine for liquid fuel and the like. No. 1,348,791; Aug. 3; v. 277; p.127.
Evans, Frederick A. A., London, England. Vapor-lighter. No. 1,360,202; Nov. 23; v. 280; p. 738.
Evans, Frederick J., Barry, Wales. Railway-signal. No. 1,352,801; Sept. 14; v. 278; p. 248.
Evans, George, Elnora, Alberta, Canada. Combined post-hole-digger, wire-tightener, and crowbar. No. 1,336,027; Apr. 6; v. 273; p. 61.
Evans, George A., and J. E. Ellison, Layton, Utah. Automatic scale. No. 1,342,670; June 8; v. 275; p. 259.
Evans, George B., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Brush-holder. No. 1,354,899; Oct. 5; v. 279; p. 90.
Evans, George S., Corryong, near Towong, Victoria, Australia. Nut-locking device. No. 1,340,602; May 18; v. 274; p. 500.
Evans, Guy J., Buffalo, N. Y. Address-stencil. No. 1,350,992; Aug. 24; v. 277; p. 727.
Evans, Harold W., Washington, D. C. Puppet-valve. No. 1,358,429; Nov. 9; v. 280; p. 301.
Evans, Henry S., East Chicago, Ind. Street-indicator for tramcars. No. 1,327,274; Jan. 6; v. 270; p. 74.
Evans, Howard S., Pittsburgh, Pa., assignor to Macbeth-Evans Glass Company. Refractive glass for automobile-lamps. No. 1,342,744; June 8; v. 275; p. 274.
Evans, Humphrey, assignor to Holeproof Hosiery Co., Milwaukee, Wis. Knitting-machine. No. 1,335,281; Mar. 30; v. 272; p. 804.
Evans, Isaac, *et al.* (See McLeod and Quirk, assignors.)
Evans, James E., Los Angeles, Calif. Oil-burner. No. 1,363,855; Dec. 28; v. 281; p. 704.
Evans, John. (See Howitt, H. G., Prichard, and Evans.)
Evans', John, Sons. (See Evans, William, assignor.)
Evans, John, Providence, R. I. Card-holder. No. 1,331,251; Feb. 17; v. 271; p. 457.
Evans, John R., and F. H. G. Brandt, Kansas City, Kans., assignors, by mesne assignments, to Kansas City Automatic Hay Press Company. Baling-press. No. 1,333,067; Mar. 9; v. 272; p. 221.
Evans, John R., and F. H. G. Brandt, Kansas City, Kans., assignors, by mesne assignments, to Kansas City Automatic Hay Press Company. Baling-press. No. 1,333,068; Mar. 9; v. 272; p. 222.
Evans, John R., and F. H. G. Brandt, Kansas City, Kans., assignors, by mesne assignments, to Kansas City Automatic Hay Press Company. Tension-spool. No. 1,333,069; Mar. 9; v. 272; p. 222.
Evans, John W., Weyers Cave, Va. Sound-box raising and lowering attachment for phonographs. No. 1,362,859; Dec. 21; v. 281; p. 471.
Evans, Lee, Red Lake, N. Mex. Stock-guard. No. 1,359,974; Nov. 23; v. 280; p. 694.
Evans, Leigh H. (See Madden, B. L., and Evans.)
Evans, Percy. (See Tonkin, George A., assignor.)
Evans, Powell. (See Flamand, Paul, assignor.)
Evans, Powell, A. C. Rowley, and C. B. Garrett, Philadelphia, Pa., assignors to Globe Automatic Sprinkler Company, Philadelphia, Pa. Dry-pipe valve. No. 1,334,847; Mar. 23; v. 272; p. 663.
Evans, Ross C., *et al.* (See Cox, A., and Evans.)
Evans, S. C. (See Markwell, Andrew E., assignor.)
Evans, Thomas H. (See Fulton, A. J., and Evans.)
Evans, William, Uvalde, Tex. Key-Ring Clip. No. 1,345,357; July 6; v. 276; p. 6.
Evans, William, Philadelphia, Pa., assignor to John Evans' Sons, Philadelphia, Pa. Machine for forming spring-eyes. No. 1,339,443; May 11; v. 274; p. 223.
Evans, William C., Sedalia, Mo., and S. M. Bancroft, Wichita, Kans., assignors, by mesne assignments, to The Carburetor Lock Corporation. Carbureter-lock. No. 1,345,841; July 6; v. 276; p. 101.
Evans, William F., assignor of one-ninth to N. Figliolo, New York, N. Y. Nut-lock. No. 1,357,389; Nov. 2; v. 280; p. 36.
Evans, William F., Philadelphia, assignor of one-ninth to G. D. Carney, Chester, Pa., one-ninth to N. Fioliolo, New York, and one-ninth to E. J. Arghis, Brooklyn, N. Y. Nut-lock. No. 1,341,741; June 1; v. 275; p. 25.
Evans, William J., and F. M. Scott, Dayton, Iowa; said Scott assignor to said Evans. Driving and steering wheel. No. 1,330,690; Feb. 10; v. 271; p. 283.
Evans, William J., and F. M. Scott, Dayton, Iowa; said Scott assignor to said Evans. Combined driving and steering wheel for motor-vehicles. No. 1,333,908; Mar. 16; v. 272; p. 440.
Evans, William M., Tampa, Fla. Safety-razor and blade-holder. No. 1,350,960; Aug. 24; v. 277; p. 721.
Evans, William W., Salt Lake City, Utah. Flue-cleaner. No. 1,359,239; Nov. 16; v. 280; p. 502.
Evansville Arbor Press. (See Burtt, Frank, assignor.)
Evaporating and Drying Machinery Company. (See Miller, John C., assignor.)
Eveleth, Clarence M., River Forest, Ill. Automobile attachment. No. 1,334,362; Mar. 23; v. 272; p. 571.
Even, Harry A., Elkton, S. D. Funnel. No. 1,355,952; Oct. 19; v. 279; p. 388.
Evens & Howard Fire Brick Company. (See McLean, E. M., and Yoder, assignors.)
Evensen, Carl, Seabold, Wash. Bolting-up device. No. 1,343,667; June 15; v. 275; p. 519.
Evensen, William M., Chicago, Ill., assignor to Goss Printing Press Company. Cam. No. 1,331,746; Feb. 24; v. 271; p. 570.
Evensen, William M., Chicago, Ill., assignor to Goss Printing Press Company. Printing-plate clamp. No. 1,344,939; June 29; v. 275; p. 898.
Evensen, William M., assignor to Goss Printing Press Company, Chicago, Ill. Printing-plate clamp. No. 1,350,015; Aug. 17; v. 277; p. 492.
Evenson, Arthur M., Westby, Wis. Chain-fastener. No. 1,332,719; Mar. 2; v. 272; p. 104.
Eveready Mfg. Company of Boston. (See Lea, Charles, assignor.)
Everett, B. F., Company. (See Elbertz, Frank V., assignor.)
Everett, Edward A. (See Hull, S. P., and Everett.)
Everett, Ernest C., assignor to R. E. Dietz Company, New York, N. Y. Tubular lantern. No. 1,338,011; May 4; v. 274; p. 48.

Digitized by Google

Everett, Ernest C., assignor to R. E. Dietz Company, New York, N. Y. Ball-holding device for lanterns. No. 1,353,991; Sept. 28; v. 278; p. 586.
Everett, Ernest P. (See Smith, H. J., and Everett.)
Everett Fibre Products Corporation. (See Smith, H. J., and Everett, assignors.)
Everett, Howard E., Grand Rapids, Mich. Shoe-polish box. No. 1,342,537; June 8; v. 275; p. 233.
Everett, John H. (See Christopher, Calvin F., assignor.)
Everett, John H. D., Boulder, Colo. Ironing-board. No. 1,352,361; Sept. 7; v. 278; p. 124.
Everett, Willard E., Berkley Springs, W. Va. Tire-protector. No. 1,357,157; Oct. 26; v. 279; p. 671.
Everett, William R., Chicago, Ill., assignor to E. & K. Manufacturing Company, Quincy, Ill. Filing device for phonograph-records. No. 1,334,026; Mar. 16; v. 272; p. 463.
Everingham, John H., Manchester, England. Portable carriage for children. No. 1,327,864; Jan. 13; v. 270; p. 245.
Everitt, B. F., Company. (See Elbertz, Frank V., assignor.)
Everitt, Cyrus, Sidney, Ill. Valve-spring compressor. No. 1,348,701; Aug. 3; v. 277; p. 110.
Everlastik Incorporated. (See Kendrick, Solomon, assignor.)
Evers, William H. (See Pease, W. E., and Suloff, assignors.)
Evers, William H., Lakewood, Ohio. Building construction. No. 1,335,886; Apr. 6; v. 273; p. 34.
Evershed, Sydney, and W. D. Kilroy, Chiswick, London, England. Sound-emitter. No. 1,333,298; Mar. 9; v. 272; p. 264.
Everson, August, Big Sandy, Mont. Reamer. No. 1,360,908; Nov. 30; v. 280; p. 944.
Eversz, John H. F., Walla Walla, Wash. Portable filter. No. 1,335,282; Mar. 30; v. 272; p. 805.
Everton, Edward G. (See Hollarn, E. F., Hubble, Everton, and Wilcox.)
Evilsizor, John E., and C. Follrath, Springfield, Ohio. Ornament-support. No. 1,344,027; June 22; v. 275; p. 655.
Evison, Ezra T., New Virginia, Iowa. Watering-trough for live stock. No. 1,329,516; Feb. 3; v. 271; p. 33.
Evits, Charles, and C. Benner, Benton Harbor, Mich. Wrench. No. 1,349,564; Aug. 17; v. 277; p. 405.
Evitts, George E., and W. Goettlich, Waterbury, Conn. Tube-clamp. No. 1,330,523; Feb. 10; v. 271; p. 252.
Evleth, Earl M., St. Paul, Minn. Fire-extinguishers. No. 1,329,831; Feb. 3; v. 271; p. 91.
Evon, Louis C., assignor to Searight-Downs Manufacturing Co., Detroit, Mich. Molding-core. No. 1,336,212; Apr. 6; v. 273; p. 96.
Evslin, Leo E., New York, N. Y. Capsule for antiseptics and the like. No. 1,350,304; Aug. 24; v. 277; p. 594.
Evslin, Leo E., New York, N. Y. Clutch device for tool-holders. No. 1,355,659; Oct. 12; v. 279; p. 290.
Evslin, Leo E., New York, N. Y., assignor, by mesne assignments, to Lee Surgico-Dental Mfg. Co. Inc. Tooth-brush-holder. No. 1,361,842; Dec. 14; v. 281; p. 219.
Ewald, Arno A., Oakfield, Wis. Gasket for inflation-tube connections. No. 1,344,028; June 22; v. 275; p. 655.
Ewald, Arno A., Oakfield, Wis. Hose-coupling. No. 1,361,758; Dec. 7; v. 281; p. 156.
Ewart, Edward, Moosup, Conn. Shedding mechanism for loom-harness. No. 1,333,164; Mar. 9; v. 272; p. 239.
Ewart, John W. (See Ewart, Samuel and J. W., and Prangnell.)
Ewart, Samuel and J. W., London, and N. W. Prangnell, Marylebone, London, England. Ventilating for light-projectors or lanterns. No. 1,337,832; Apr. 20; v. 273; p. 538.
Ewen, Harry A., London, England, assignor, by mesne assignments, to Radio Corporation of America. Relay. No. 1,329,756; Feb. 3; v. 271; p. 77.
Ewen, Malcolm F., Chicago, Ill., assignor, by mesne assignments, to Montague Iron Works Corporation. Refrigerating-cabinet. No. 1,337,696; Apr. 20; v. 273; p. 512.
Ewing, Arthur G. (See Ewing, Clyde T. and A. G.)
Ewing, Arthur G., Los Angeles, Calif. Signal for indicating subnormal pressure in pneumatic tires. No. 1,351,237; Aug. 31; v. 277; p. 838.
Ewing, Charles E., Lincoln, Nebr. Soap-dispensing device. No. 1,343,815; June 15; v. 275; p. 549.
Ewing, Clyde T. and A. G., Los Angeles, Calif. Signal for indicating subnormal pressure in pneumatic tires. No. 1,350,016; Aug. 17; v. 277; p. 492.
Ewing, Floyd C., Jeromesville, Ohio. Bracket for vehicle-springs. No. 1,336,829; Apr. 13; v. 273; p. 273.
Ewing, Frank S., Columbus, Ohio. Scale. No. 1,332,116; Feb. 24; v. 271; p. 639.
Ewing, George L. (See Eleyet, L. W., Ewing, Mahan, and Eleyet.)
Ewing, Guss, assignor of one-third to R. Rowe, Egypt, Miss. Barber-chair. No. 1,338,616; Apr. 27; v. 273; p. 754.
Ewing, Henry R., Brooklyn, N. Y. Moving-picture film. No. 1,334,948; Mar. 30; v. 272; p. 742.
Ewing, Henry W., Columbus, Ohio. Wearing-apparel. No. 1,346,448; July 13; v. 276; p. 283.

Ewing, Howard M., Los Angeles, Calif. Artificial-lighting apparatus. No. 1,332,619; Mar. 2; v. 272; p. 85.
Ewing, James A., Springdale, and E. J. McGowan, Tarentum, Pa. Plumb-bob. No. 1,349,565; Aug. 17; v. 277; p. 405.
Ewing, William E., Houston, Tex. Furnace. No. 1,333,104; Mar. 9; v. 272; p. 228.
Ewry, Charles S., Portland, Ind. Egg-tray. No. 1,345,483; July 6; v. 276; p. 31.
Excelsior Manufacturing Company. (See Kost, Stephen A., assignor.)
Excelsior Steel Furnace Company, The. (See Scherer, Albert G., assignor.)
Exley, William H. (See Leitner, Henry, assignor.)
Exley, William H. (See Leitner and Exley.)
Exley, William L., and L. Pemberton, Chickasha, Okla. Car-seal. No. 1,356,976; Oct. 26; v. 279; p. 636.
Exline, Marcus P., Dallas, Tex. Check-book. No. 1,354,960; Oct. 5; v. 279; p. 102.
Exton, Alfred H., Chicago Heights, Ill., assignor to American Manganese Steel Company, Augusta, Me. Sectional shoe for the runner-vanes of centrifugal pumps. No. 1,327,812; Jan. 13; v. 270; p. 236.
Ey, Gustave, New York, N. Y. Plastic composition. No. 1,361,759; Dec. 7; v. 281; p. 156.
Eyles, Anton G., Cedar Rapids, Iowa, assignor of one-half to J. H. Lee, Oak Park, Ill. Tempo-control device. No. 1,328,870; Jan. 27; v. 270; p. 501.
Eynon, George A., assignor to The Sterling Manufacturing Company, Cleveland, Ohio. Spring-oiler. No. 1,360,629; Nov. 30; v. 280; p. 891.
Eynon, Harold G., Philadelphia, Pa. Centrifugal casting method and apparatus. No. 1,349,416; Aug. 10; v. 277; p. 303.
F. B. Electric & Manufacturing Company. (See Fitz Gerald, John W., assignor.)
F. & M. Novelty Co. (See Marcus, Samuel, assignor.)
F. A. B. Manufacturing Co. (See Freitag, K. J. W., and Ainsworth, assignors.)
F. O. B. Manufacturing Company. (See Boswell, Fletcher O., assignor.)
Faber, Frank M., Canton, Ohio. Method of and apparatus for making motion-picture films. (Reissue.) No. 14,906; Nov. 30; v. 280; p. 962.
Faber, John E., *et al.* (See Davidson, Charles S., assignor.)
Faccioli, Giuseppe, Pittsfield, Mass., assignor to General Electric Company. Insulation. No. 1,350,925; Aug. 24; v. 277; p. 714.
Fachman, Oswald, Lindsey, Ohio. Wire-wrapping tool. No. 1,340,029; May 11; v. 274; p. 334.
Fadco, Frank T., assignor to Pacific Car & Foundry Co., Seattle, Wash. Device for coupling trailers to tractors. No. 1,342,949; June 8; v. 275; p. 315.
Faehndrich, William, New York, N. Y. Cheese-cutting machine. No. 1,340,479; May 18; v. 274; p. 476.
Faehrmann, Hermann, Brooklyn, N. Y. Propeller or the like. No. 1,355,321; Oct. 12; v. 279; p. 226.
Faehrmann, Hermann, Brooklyn, N. Y. Propeller. No. 1,358,430; Nov. 9; v. 280; p. 301.
Faelleskjöp, Landhusholdningsselskapernes. (See Engen, John, assignor.)
Fafnir Bearing Company, The. (See Gilbert, Daniel J., assignor.)
Fafnir Bearing Company, The. (See Sellew, Roland W., assignor.)
Fagan, James P. V., H. G. Spear, and R. B. Wolf; said Fagan and said Spear assignors to Brown Company, Berlin, N. H. Manufacturing sulfite fiber and recovering sulfur dioxid. No. 1,327,666; Jan. 13; v. 270; p. 208.
Fageol, Rollie B., Oakland, Calif. Bumper for motor-vehicles. No. 1,329,517; Feb. 3; v. 271; p. 33.
Fageol, Rollie B., Oakland, Calif. Vehicle-bumper. No. 1,348,634; Aug. 3; v. 277; p. 98.
Fagergren, William. (See Margetts, I. R., and Fagergren.)
Fagerlund, Erik A., Stockholm, Sweden. Switch. No. 1,351,161; Aug. 31; v. 277; p. 822.
Fagrie, Philip T., Seattle, Wash. Plumb-bob. No. 1,336,289; Apr. 6; v. 273; p. 110.
Fahey, Thomas F. (See Lefkowitz, Joseph, assignor.)
Fahl, Eugene, Wichita, Kans. Liquid-storage apparatus. No. 1,345,154; June 29; v. 275; p. 939.
Fahnoe, Hans. (See Eschholz, O. H., and Fahnoe.)
Fahnoe, Hans, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric-arc-welding system. No. 1,343,208; June 15; v. 275; p. 430.
Fahnoe, Hans, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Co. Arc-welding system. No. 1,351,030; Aug. 31; v. 277; p. 798.
Fahrenholz, Martin H., Norfolk, Nebr. Aerial torpedo. No. 1,339,181; May 4; v. 274; p. 98.
Fahrenwald, Frank A., Cleveland, Ohio. Alloy. No. 1,333,965; Mar. 16; v. 272; p. 451.
Fahrenwald, Frank A., Cleveland Heights, Ohio. Producing chromium containing alloys. No. 1,346,187; July 13; v. 276; p. 231.
Fahrenwald, Frank A., Cleveland, Ohio. Firearm and alloy for making same. No. 1,346,188; July 13; v. 276; p. 231.

Digitized by Google

Fahrenwald, Frank A., Cleveland Heights, Ohio. Firearm and alloy for making same. No. 1,346,189; July 13; v. 276; p. 231.
Fahrenwald, Frank A., Cleveland Heights, Ohio. Firearm and alloy for making same. No. 1,346,190; July 13; v. 276; p. 231.
Fahrenwald, Frank A., Cleveland Heights, Ohio. Firearm and alloy for making same. No. 1,346,191; July 13; v. 276; p. 231.
Fahrenwald, Frank A., Cleveland Heights, Ohio. Apparatus for high-temperature uses. No. 1,357,549; Nov. 2; v. 280; p. 65.
Fahrenwald, Frank A., Cleveland, Ohio. Chemical ware or technical apparatus and alloys for making same. No. 1,357,550; Nov. 2; v. 280; p. 65.
Fahrenwald, Frank A., assignor to The Rhotanium Company, Cleveland, Ohio. Composition of matter for platinum substitute in electrical terminals and other uses. No. 1,339,505; May 11; v. 274; p. 235.
Fahrig, Ernest, assignor of one-half to A. D. Clark, Philadelphia, Pa. Artificial slate. No. 1,362,563; Dec. 14; v. 281; p. 361.
Fahrner, William E., McKittrick, Mo. Chain tongs. No. 1,355,597; Oct. 12; v. 279; p. 279.
Fahrney, John J., assignor of one-half to E. M. Hoover, Timberville, Va. Tire-heater. No. 1,343,045; June 8; v. 275; p. 334.
Fahy, Frank P. (See Holz and Fahy.)
Fahys, Joseph, & Company. (See Harman, Charles W. and E. T., assignors.)
Faichney, George H., Watertown, N. Y., assignor to The Randall-Faichney Company, Boston, Mass. Work-supporting table. No. 1,343,553; June 15; v. 275; p. 497.
Faichney, George H., Watertown, N. Y., assignor to The Randall-Faichney Company, Boston, Mass. Multiple-engraving machine. No. 1,359,240; Nov. 16; v. 280; p. 502.
Faichney, George H., Watertown, N. Y., assignor to The Randall-Faichney Company, Boston, Mass. Multiple-engraving machine. No. 1,359,241; Nov. 16; v. 280; p. 502.
Faichney, George H., Watertown, N. Y., assignor to The Randall-Faichney Company, Boston, Mass. Multiple-engraving machine. No. 1,359,242; Nov. 16; v. 280; p. 503.
Fair, George A., Detroit, Mich. Window. No. 1,345,915; July 6; v. 276; p. 116.
Fair, George A., Detroit, Mich. Window. No. 1,359,975; Nov. 23; v. 280; p. 694.
Fair, Ralph E., assignor to Lucey Manufacturing Corporation of Tennessee, Chattanooga, Tenn. Well-drilling taper tap. No. 1,335,431; Mar. 30; v. 272; p. 883.
Fairback, Dickson. (See Shoup, S. E., and Fairback.)
Fairbanks Company. (See Mattern, Frank C., assignor.)
Fairbanks, E. and T., and Company. (See Bousfield, John H. A., assignor.)
Fairbanks, Ephraim W., San Diego, Calif. Automobile-wheel. No. 1,346,084; July 6; v. 276; p. 150.
Fairbanks, James J., Gardner, Mass., assignor to The U. S. Toy & Novelties Mfg. Co., Templeton, Mass. Toy Ferris wheel. No. 1,328,829; Jan. 27; v. 270; p. 492.
Fairbanks, Luke J., Los Angeles, Calif. Insect-poison-supply container. No. 1,327,230; Jan. 6; v. 270; p. 66.
Fairbanks, Morse & Co. (See Thompson, H. E., and Bunn, assignors.)
Fairbanks, Morse & Co. (See Thompson, H. E., Lindsey, and Rix, assignors.)
Fairbanks, Morse & Co. (See Thompson, Harry E., assignor.)
Fairbanks, Morse & Company. (See Hobart, F. G., and Jahnke, assignors.)
Fairbanks, Morse & Company. (See Hobart, Franklin G., assignor.)
Fairbanks Morse & Company. (See Mahana, C. G., Glidden, and Laurent, assignors.)
Fairbourn, Joseph T. (See Jones, O. A., and Fairbourn.)
Fairburn, William A., Great Barrington, Mass., assignor to The Diamond Match Company, Chicago, Ill. Treating match-heads. No. 1,332,438; Mar. 2; v. 272; p. 51
Fairburn, William A., Short Hills, N. J., assignor to The Diamond Match Company, Chicago, Ill. Match-head composition and making same. No. 1,360,282; Nov. 30; v. 280; p. 823.
Fairburn, William A., Short Hills, N. J., assignor to The Diamond Match Company, Chicago, Ill. Composition for match-heads. No. 1,360,283; Nov. 30; v. 280; p. 823.
Fairchild, Harry P., New York, N. Y. Magazine-pencil. No. 1,345,436; July 6; v. 276; p. 21.
Fairchild, Samuel P., Mountain Home, Idaho. Auxiliary car-step. No. 1,345,668; July 6; v. 276; p. 66.
Fairchilds, George R., Holyoke, Mass., assignor to Cowan Truck Company. Motor-driven-vehicle construction. No. 1,343,358; June 15; v. 275; p. 458.
Fairey, Charles R., Hayes, England. Controlling device for aeroplanes. No. 1,334,085; Mar. 16; v. 272; p. 473.
Fairey, Charles R., Hayes, England. Aeroplane. No. 1,337,762; Apr. 20; v. 273; p. 525.
Fairey, Charles R., Hayes, England. Controlling device for aeroplanes. No. 1,350,145; Aug. 17; v. 277; p. 517.
Fairey, Charles R., Hayes, England. Controlling device for aeroplanes. No. 1,359,345; Nov. 16; v. 280; p. 524.
Fairfield, Frank M., *et al.* (See Bredsvold, Paul A., assignor.)
Fairfield Shipbuilding & Engineering Company, The. (See Robertson, William, assignor.)
Fairhurst, John T., Elizabeth, N. J. Lock for folding partitions. No. 1,351,844; Sept. 7; v. 278; p. 26.
Fairies Manufacturing Co. (See Surface, William E., assignor.)
Fairley, Taliaferro J., assignor to Southern Pine Products Co., Inc., New Orleans, La. Extraction. No. 1,353,035; Sept. 14; v. 278; p. 293.
Fairmont Gas Engine & Railway Motor Car Co. (See Kasper, Walter F., assignor.)
Fairmount Tool and Forging Co., The. (See Bartenstein, John J., assignor.)
Fairtrace, George D., Dallas, assignor to J. A. Gerrity, Dallas county, Tex. Inlet grate. No. 1,360,630; Nov 30; v. 280; p. 891.
Fairweather, Sylvester D., Newburgh, Scotland. Footwear. No. 1,331,844; Feb. 24; v. 271; p. 589.
Faistenhammer, Max, Binghamton, N. Y. Meat-hook. No. 1,354,811; Oct. 5; v. 279; p. 73.
Faistenhammer, Max, Binghamton, N. Y. Ham-hook. No 1,360,103; Nov. 23; v. 280; p. 719.
Faistenhammer, Max, Binghamton, N. Y. Ham-hook. No. 1,360,104; Nov. 23; v. 280; p. 719.
Faistl, Michael J., and G. A. Selig, Columbus, Ohio. Non-dripping spout. No. 1,357,629; Nov. 2; v. 280; p. 81.
Faithfull, Wyndham L., Folliott, Sussex, England. Stirrup-leather. No. 1,335,826; Apr. 6; v. 273; p. 23.
Faix, John and S., San Francisco, Calif. Combination-tool. No. 1,339,698; May 11; v. 274; p. 272.
Faix, Michael, Philadelphia, Pa. Collapsible chair and table. No. 1,361,034; Dec. 7; v. 281; p. 11.
Faix, Samuel. (See Faix, John and S.)
Fajman, Wilhelm. (See Vesely, Bedrich, and Fajman.)
Falcke, Philip. (See Bumpas and Falcke.)
Falcone, Antonio, Bloomfield, N. J. Fruit-crusher and juice-extractor. No. 1,356,199; Oct. 19; v. 279; p. 438.
Falconer, Harry W., Wood county, Ohio. Identifying means for automobiles. No. 1,333,478; Mar. 9; v. 272; p. 299.
Falconer, James, *et al.* (See Roots, Richard W., assignor.)
Falder, Simon N., St. Louis, Mo. Inkwell. No. 1,355,547; Oct. 12; v. 279; p. 269.
Falk Company, The. (See Day, Percy C., assignor.)
Falk, William. (See Edling, M., and Falk.)
Falkiner, Edward J., Wellington, New Zealand. Receptacle filling and measuring machine. No. 1,333,299; Mar. 9; v. 272; p. 264.
Falkiner, Edward J., Wellington, New Zealand. Receptacle filling and measuring machine. No. 1,338,429; Apr. 27; v. 273; p. 720.
Fallesen, George J., and W. L. Farley, assignors to Eastman Kodak Company, Rochester, N. Y. Roll and fastening means therefor. No. 1,332,890; Mar. 9; v. 272; p. 288.
Falls, Alexander S., Glencoe, Ill. Desk. No. 1,334,949; Mar. 30; v. 272; p. 742.
Falls, Alexander S., Glencoe, Ill. Lock. No. 1,361,702; Dec. 7; v. 281; p. 145.
Falor, Abram E., and F. J. MacDonald, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Beveling device for rubber tubes. No. 1,363,462; Dec. 28; v. 281; p. 627.
Falwell, Wray, Fitchburg, Mass. Internal-combustion engine. No. 1,356,200; Oct. 19; v. 279; p. 438.
Familet, Joseph. (See Lombardo, Carl, assignor.)
Fanberg, Clemons J. Z., Kerkhoven, Minn. Plow-trip. No. 1,331,424; Feb. 17; v. 271; p. 489.
Fandrey, Gustav A., Cedar Rapids, Iowa. Record-cleaner for sound-reproducing machines. No. 1,354,386; Sept. 28; v. 278; p. 666.
Fandrich, Ernest. (See Leonard, P. A., Maloney, and Fandrich.)
Fanger, Fred E., Mexico, Mexico. Attachment for typewriters. No. 1,338,565; Apr. 27; v. 273; p. 745.
Fanner Manufacturing Company, The. (See Gibson, Samuel H., assignor.)
Fanslow, Benjamin O., White Plains, assignor to New Era Mfg. Co., New York, N. Y. Check-protecting machine. No. 1,333,105; Mar. 9; v. 272; p. 229.
Fanslow, Benjamin O., White Plains, assignor to New Era Mfg. Co., New York, N. Y. Check-protecting machine. No. 1,333,106; Mar. 9; v. 272; p. 229.
Fanslow, Benjamin O., White Plains, assignor to New Era Mfg. Co., New York, N. Y. Feeding mechanism for check-protecting machines. No. 1,333,107; Mar. 9; v. 272; p. 229.
Fanslow, Benjamin O., White Plains, assignor to New Era Mfg. Co., New York, N. Y. Check-protecting machine. No. 1,333,108; Mar. 9; v. 272; p. 229.
Fanslow, Benjamin O., Queens county, assignor to New Era Mfg. Company, New York, N. Y. Check-writing machine. No. 1,337,006; Apr. 13; v. 273; p. 307.
Faraday Co., The. (See Barnes, A. J., and Fedder, assignors.)
Faraday Company, The. (See Boyd, F. C., and Barus, assignors.)

Digitized by Google

Farah, Mansour, Las Cruces, N. Mex. Lock for motor-vehicles. No. 1,362,685; Dec. 21; v. 281; p. 436.
Faranda, Alberto, Milan, Italy. Vacuum-discharger for lower tensions. No. 1,354,812; Oct. 5; v. 279; p. 73.
Farb, Pincus, Saginaw, Mich., assignor to Sonora Phonograph Corporation. Automatic stop. No. 1,350,796; Aug. 24; v. 277; p. 691.
Fargo, Arthur H., Wilmington, Del., assignor, by mesne assignments, to C. Tremain. Insulator. No. 1,329,656; Feb. 3; v. 271; p. 58.
Fargo, Charles R., Chicago, Ill., assignor to Wilson-Jones Loose Leaf Company. Binder-lock. No. 1,334,695; Mar. 23; v. 272; p. 633.
Fargues, Amédée G. F., Lyon, France. Welding-machine. No. 1,329,890; Feb. 3; v. 271; p. 102.
Farish, Nettie K. (See Ohman, John L., assignor.)
Farley, Henry G., Portland, Me. Machine for grinding the edges of glass plates. No. 1,328,242; Jan. 13; v. 270; p. 817.
Farley, John W., Cleveland, Ohio. Pipe-hanger. No. 1,362,244; Dec. 14; v. 281; p. 299.
Farley, John W., Cleveland, Ohio. Pipe-hanger. No. 1,362,245; Dec. 14; v. 281; p. 300.
Farley, Walter L. (See Fallesen, G. J., and Farley.)
Farlinger, James S., Verona, N. J. Funnel. No. 1,357,490; Nov. 2; v. 280; p. 54.
Farm Specialty Manufacturing Company. (See Unger, J. W., and Lahann, assignors.)
Farmer, Edwin T., Carthage, Mo. Spool-case. No. 1,333,479; Mar. 9; v. 272; p. 299.
Farmer, Frank H., assignor, by mesne assignments, to The White Motor Company, Cleveland, Ohio. Motor-truck construction. No. 1,341,306; May 25; v. 274; p. 705.
Farmer, James, assignor of one-third to James E. Conway, Pittsburgh, Pa. Bending-machine. No. 1,351,472; Aug. 31; v. 277; p. 885.
Farmer, James D., St. Louis, Mo. Valve-lock. No. 1,338,912; May 4; v. 274; p. 48.
Farmer, Leslie D., assignor to Davis Machine Tool Company, Inc., Rochester, N. Y. Lathe. No. 1,332,978; Mar. 9; v. 272; p. 205.
Farmer, Robert Z., Roseburg, Oreg. Electric drill. No. 1,358,303; Nov. 9; v. 280; p. 274.
Farnam, Elvin, Los Angeles, Calif. Scarecrow. No. 1,329,044; Jan. 27; v. 270; p. 534.
Farnham, Bion B., Kenmore, N. Y. Rotary compressor. No. 1,354,035; Sept. 28; v. 278; p. 595.
Farnham, Dana C. (See Hiner, O. W., and Farnham.)
Farnham, Eli A., Jr. (See Hiner, O. W., and Farnham.)
Farnsworth, Ralph S., Loda, Ill. Steering attachment for tractors. No. 1,354,036; Sept. 28; v. 278; p. 595.
Farnsworth, William F., Washington, D. C. Lock-washer. No. 1,335,944; Apr. 6; v. 273; p. 45.
Farnsworth, William W., Littleton, Colo. Dust-collecting bag for cleaning apparatus. No. 1,351,561; Aug. 31; v. 277; p. 903.
Farnsworth, William W., Littleton, Colo. Dust-collector for cleaning apparatus. No. 1,357,390; Nov. 2; v. 280; p. 36.
Farnsworth, William W., Littleton, Colo., assignor of one-third to E. A. Ryan, Kansas City, Mo., and one-third to E. H. White, Cumberland, Md. Means for automatically applying tire-chains to vehicle-wheels. No. 1,351,206; Aug. 31; v. 277; p. 832.
Farnum, William C., Winchendon, Mass. Elastic gear, oblique tooth. No. 1,361,035; Dec. 7; v. 281; p. 11.
Farnum, William C., assignor to Baxter D. Whitney & Son, Inc., Winchendon, Mass. Cutter. No. 1,338,822; May 4; v. 274; p. 32.
Farnum, William C., assignor to W. M. Whitney, Winchendon, Mass. Gear-cutting machine. No. 1,364,056; Dec. 28; v. 281; p. 742.
Farquhar, Charles S., *et al.* (See Alcorn, John S., assignor.)
Farquhar, Moubray G., and A. H. Hill, Edgbaston, Birmingham, England. Cartridge-magazine for rifles and machine-guns. No. 1,337,893; Apr. 20; v. 273; p. 550.
Farquhar, Moubray G., and A. H. Hill, Birmingham, England. Automatic firearm. No. 1,350,961; Aug. 24; v. 277; p. 721.
Farquhar, Moubray G., and A. H. Hill, Birmingham, England. Automatic firearm. No. 1,353,736; Sept. 21; v. 278; p. 492.
Farquhar, Moubray G., and A. H. Hill, Birmingham, England. Stand or support for firearms. No. 1,355,660; Oct. 12; v. 279; p. 290.
Farr, Arthur L. (See Stuart, Charles A. and G. E., and A. L. and C. P. Farr.)
Farr, Clarence P. (See Stuart, Charles A. and G. E., and A. L. and C. P. Farr.)
Farr, Edward C., Flint, Mich. Curled-hair fabric. No. 1,334,744; Mar. 23; v. 272; p. 643.
Farr, Edward C., Flint, Mich. Device for filling cushion-pipings and using same. No. 1,334,745; Mar. 23; v. 272; p. 643.
Farr, Ernest W. (See Dupuy, Arthur O., assignor.)
Farr, Frederick W., Northampton, England. Repairing pneumatic-tire covers. No. 1,330,855; Feb. 17; v. 271; p. 382.
Farr, Ira E., assignor of one-half to M. M. Bagg, Watertown, N. Y. Machine for making composition plugs. No. 1,348,214; Aug. 3; v. 277; p. 16.
Farr, John C. (See Hamilton, James B., assignor.)
Farr, Warren H., New York, N. Y., assignor to General Motors Corporation, Detroit, Mich. Automatically-operating hood-door-fastening device. No. 1,335,958; Apr. 6; v. 273; p. 48.
Farrand, Dudley, Newark, N. J. Pump. No. 1,342,798; June 8; v. 275; p. 286.
Farrel Foundry & Machine Company. (See Bowen, D. R., and Schnuck, assignors.)
Farrell, Frederick W., assignor to W. MacLaurin, Brookfield, Mass. Sealing-strip. No. 1,358,834; Nov. 16; v. 280; p. 425.
Farrell, James E., New Bedford, assignor to T. C. Entwistle Company, Lowell, Mass. Pneumatic lint-clearer for warping-machines. No. 1,339,182; May 4; v. 274; p. 99.
Farrell, James J., St. Louis, Mo. Drill. No. 1,331,189; Feb. 17; v. 271; p. 445.
Farrell, Samuel J. (See Overmyer, Charles C., assignor.)
Farrelly, Francis J., and A. Greiner, Hartford, Conn. X-ray tube. No. 1,334,146; Mar. 16; v. 272; p. 485.
Farrer, George A., Boonville, Calif. Commutator attachment for automobiles. No. 1,357,158; Oct. 26; v. 279; p. 671.
Farrington, Charles E., Philadelphia, Pa. Barrel-agitator. No. 1,336,830; Apr. 13; v. 273; p. 273.
Farrington, James J., Philadelphia, Pa. Vehicle-jack. No. 1,359,044; Nov. 16; v. 280; p. 466.
Farris, George R., Stanberry, Mo. Wire-stretcher. No. 1,342,625; June 8; v. 275; p. 250.
Farris, Harvey D., Spokane, Wash. Water-closet bowl. No. 1,342,016; June 1; v. 275; p. 79.
Farris, Harvey D., Spokane, Wash. Water-closet bowl. No. 1,349,193; Aug. 10; v. 277; p. 258.
Farris, Joseph, Springfield, Ill. Furnace-joint. No. 1,342,258; June 1; v. 275; p. 127.
Farriss, Charles S., De Land, Fla. Safety-razor. No. 1,354,178; Sept. 28; v. 278; p. 624.
Farup, Peder, assignor, by mesne assignments, to Titan Co. A/S., Christiania, Norway. Manufacture of titanium oxygen compounds. No. 1,341,307; May 25; v. 274; p. 705.
Farup, Peder, assignor to Titan Co. A/S. of Norway, Christiania, Norway. Producing titanium compounds. No. 1,343,441; June 15; v. 275; p. 474.
Farup, Peder, assignor to Titan Co. A/S, Christiania, Norway. White pigment. No. 1,360,737; Nov. 30; v. 280; p. 912.
Fassel, Martin J., St. Louis, Mo. Rain-guard for motor-vehicles. No. 1,347,218; July 20; v. 276; p. 493.
Fassoulis, Peter G., Syracuse, N. Y. Twine-holder. No. 1,354,434; Sept. 28; v. 278; p. 676.
Fast, Gustave, Mount Washington, assignor to The Bartlett Haywood Company, Baltimore, Md. Coupling for shafting. No. 1,356,860; Oct. 26; v. 279; p. 614.
Faulds, Thomas W., Clinton, Ind. Coupling-hook. No. 1,331,425; Feb. 17; v. 271; p. 489.
Faultless Caster Company. (See Noelting, William H., assignor.)
Faultless Rubber Company, The. (See Miller, Thomas W., assignor.)
Faunce, Benjamin F., Johnstown, Pa. Adjustable mill for rolling circular sections. No. 1,341,891; June 1; v. 275; p. 54.
Faurot, Joseph A. (See Carmody, Harold J., assignor.)
Fausse, Joseph, Brockton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. No. 1,328,322; Jan. 20; v. 270; p. 369.
Fausse, Joseph, Brocton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Trimming-machine. No. 1,350,305; Aug. 24; v. 277; p. 594.
Fausse, Joseph, Brockton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Device for making puttees. No. 1,353,823; Sept. 28; v. 278; p. 552.
Faust, Benjamin G., Unity, Oreg. Hen's nest. No. 1,329,963; Feb. 3; v. 271; p. 116.
Faust, Ephraim M., Steelton, Pa. Brake for lathes. No. 1,354,607; Oct. 5; v. 279; p. 32.
Faust, Levin, and E. B. Anderson, assignors to Mechanics Machine Company, Rockford, Ill. Automobile-locking device. No. 1,338,913; May 4; v. 274; p. 49.
Faust, Louis F., Comfort, Tex. Water-heaters. No. 1,352,802; Sept. 14; v. 278; p. 248.
Faust, Samuel D., Pittsburgh, Pa., assignor to International Gasolene Process Corporation. Apparatus for the distillation of oil. No. 1,340,532; May 18; v. 274; p. 486.
Favary, Ethelbert, New York, N. Y. Resilient tire. No. 1,363,856; Dec. 28; v. 281; p. 704.
Favary, Ethelbert, New York, N. Y. Resilient tire. No. 1,363,857; Dec. 28; v. 281; p. 704.
Fawcett, Charles H., assignor to Interstate Ever-license Company, Independence, Iowa. License-holder for motor-vehicles. No. 1,328,915; Jan. 27; v. 270; p. 510.
Fawcett, Charles H., Independence, Iowa. License holder for motor-vehicles. No. 1,330,067; Feb. 10; v. 271; p. 166.
Fawcett, Charles H., assignor to Interstate Everlicense Company, Independence, Iowa. License-holding device. No. 1,330,068; Feb. 10; v. 271; p. 167.
Fawcett, Robert, *et al.* (See Prisbrey, George W., assignor.)

Digitized by Google

Fawver, Joseph C., Kansas City, Mo. Tractor. No. 1,355,826; Oct. 19; v. 279; p. 363.
Fay, Albert E. (See Wood H. A. W., and Fay.)
Fay, Alpheus, Louisville, Ky. Mechanical movement. No. 1,329,387; Feb. 3; v. 271; p. 8.
Fay, Bernard E., Providence, R. I. Shoe-lace-tie retainer. No. 1,344,998; June 29; v. 275; p. 908.
Fay, Clarence C., Tower, Minn. Oil-tube for gas-engines. No. 1,331,700; Feb. 24; v. 271; p. 561.
Fay, Frank T., Woodhull, Ill. Gate. No. 1,355,953; Oct. 19; v. 279; p. 388.
Fay, John L. (See Harmeling, Henry G., assignor.)
Fay, Joseph W., Milwaukee, Wis. Electrode for arc-welding. No. 1,354,476; Oct. 5; v. 279; p. 6.
Fay, Joseph W., Milwaukee, Wis. Electrode for arc-welding. No. 1,359,976; Nov. 23; v. 280; p. 694.
Fay, Joseph W., assignor to A. O. Smith Corporation, Milwaukee, Wis. Electric welding. No. 1,332,186; Feb. 24; v. 271; p. 652.
Fay Manufacturing Corporation. (See Fay, William B., assignor.)
Fay Rubber Products Company, The. (See Hollingsworth, Thomas L., assignor.)
Fay, Thomas J., Brooklyn, N. Y., assignor to The Standard Parts Company, Cleveland, Ohio. Shaping and tempering metal. No. 1,346,946; July 20; v. 276; p. 440.
Fay, Thomas J., Brooklyn, N. Y., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Internal-combustion engine. No. 1,352,945; Sept. 14; v. 278; p. 275.
Fay, William B., Chicopee Falls, Mass., assignor to Fay Manufacturing Corporation, New York, N. Y. Lifting-jack. No. 1,333,966; Mar. 16; v. 272; p. 451.
Fayant, J. B. (See Manker, Charles C., assignor.)
Fayer, Charles, New York, N. Y., assignor to Wappler Electric Co. Inc. High-tension electric machine. No. 1,348,986; Aug. 10; v. 277; p. 218.
Fazio, James, Brooklyn, N. Y. Displaying device. No. 1,344,685; June 29; v. 275; p. 849.
Fazzari, Pietro P., Huntington, W. Va. Agricultural implement. No. 1,344,494; June 22; v. 275; p. 747.
Feagan, Charles R., Detroit, Mich. Air equipment for automobiles. No. 1,347,805; July 27; v. 276; p. 667.
Feagin, R. Douglas. (See Beddingfield, John A., assignor.)
Fearn, William R., Camden, N. J. Trolley-wheel. No. 1,332,891; Mar. 9; v. 272; p. 188.
Feary, Neville A. T. N., Peterborough, England. Fabric for aircraft and making same. No. 1,327,707; Jan. 13; v. 270; p. 216.
Feasey, George T., *et al.*, executors. (See Tyrer, Thomas.)
Feather, S., Company (See Hall, William R. D., assignor.)
Featheredge Rubber Company. (See Ellis, Joseph, assignor.)
Featheredge Rubber Company. (See Wedlock, Frank V., assignor.)
Featherstone, Joseph F., Logan, Utah. Machine for cleaning vegetable and other products. No. 1,335,675; Mar. 30; v. 272; p. 879.
Feazel, Clarence E., Columbus, Ohio. Air-heater. No. 1,328,272; Jan. 20; v. 270; p. 358.
Fecker, Gottlieb L., assignor to The Warner & Swasey Company, Cleveland, Ohio. Range-finder. No. 1,355,954; Oct. 19; v. 279; p. 388.
Fedden, Albert H. R., *et al.* (See Butler, Leonard F. G., assignor.)
Fedden, Alfred H. R., Bristol, England. Internal-combustion engine. No. 1,346,534; July 13; v. 276; p. 300.
Fedden, Alfred H. R., and L. F. G. Butler, assignors of one-third to The Cosmos Engineering Company, Limited, Bristol, England. Cylinder for internal-combustion engines. No. 1,346,535; July 13; v. 276; p. 300.
Fedden, Alfred H. R., and L. F. G. Butler, assignors of one-third to The Cosmos Engineering Company, Limited, Bristol, England. Cylinder for light engines. No. 1,360,909; Nov. 30; v. 280; p. 944.
Fedder, Charles A. (See Barnes, A. J., and Fedder.)
Fedders, John M., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y. Radiator-core. No. 1,327,380; Jan. 6; v. 270; p. 93.
Fedders, John M., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y. Radiator-core. No. 1,328,323; Jan. 20; v. 270; p. 369.
Fedders, John M., assignor to Fedders Mfg. Co., Inc., Buffalo, N. Y. Radiator-shutter. No. 1,329,589; Feb. 3; v. 271; p. 46.
Fedders, Martin, Masury Station, Ohio. Flying-machine. No. 1,344,297; June 22; v. 275; p. 708.
Fedders Mfg. Co. (See Feders, John M., assignor.)
Federal Adding Machine Corporation. (See Wales, Charles, assignor.)
Federal Battery Manufacturing Corporation. (See Drambourg, Rudolphe, assignor.)
Federal Corporation, The. (See Rich, James E., assignor.)
Federal Machine Products Co., The. (See Green, Lee B., assignor.)
Federal Screw Corporation. (See Green, Joseph A., assignor.)
Federal Sugar Refining Company. (See Reinhardt, James H., assignor.)
Federal Telegraph Company. (See Beal, Ralph R., assignor.)
Federal Telegraph Company. (See Fuller, Leonard F., assignor.)
Federal Telegraph Company. (See Marx, R. G., and Fuller, assignors.)
Fedor, Sandor, Oxford Furnace, N. J. Folding chair. No. 1,352,185; Sept. 7; v. 278; p. 90.
Fedorow, Peter, Chicago, Ill. Automobile-fender. No. 1,347,624; July 27; v. 276; p. 631.
Fee, Francis, assignor to Sir W. G. Armstrong, Whitworth and Company, Limited, Newcastle-upon-Tyne, England. Device for controlling power-operating mechanism. No. 1,359,079; Nov. 23; v. 280; p. 634.
Feeders Supply Company. (See Lehrack, Frederick W., assignor.)
Feeney, John M., Bridgeport, Conn. Flagpole-bracket. No. 1,355,322; Oct. 12; v. 279; p. 226.
Feeney, William P., Hudson Falls, N. Y. Stock-regulator for paper-making machines. No. 1,331,057; Feb. 17; v. 271; p. 421.
Feero, Scott H., Canton, Ohio. Card game. No. 1,332,249; Mar. 2; v. 272; p. 14.
Fegan, Elmer T., Minneapolis, Minn., assignor of one-half to A. R. Sasse, Kansas City, Mo. Bleaching and improving flour. No. 1,330,937; Feb. 17; v. 271; p. 399.
Fegley, Thomas J., assignor to North Bros. Mfg. Co., Philadelphia, Pa. Chuck. No. 1,330,111; Feb. 10; v. 271; p. 175.
Fegley, Thomas J., and G. O. Leopold, assignors to North Bros. Mfg. Co., Philadelphia, Pa. Shears. No. 1,343,079; June 8; v. 275; p. 341.
Fehan, John, Buffalo, N. Y. Reserve device for fuel-tanks. No. 1,329,074; Jan. 27; v. 270; p. 579.
Fehl, Clarence M., Harrisburg, Pa. Tool-holder. No. 1,331,490; Feb. 24; v. 271; p. 521.
Fehlhaber, William, and C. L. Smith, Highlands, N. J. Fastener for tips of billiard-cues. No. 1,354,387; Sept. 28; v. 278; p. 667.
Fehlhaber, William, and C. L. Smith, Highlands, N. J. Fastener for the tips of billiard-cues. No. 1,362,483; Dec. 14; v. 281; p. 345.
Fehlman, Adolf, and G. Hintermann, Basel, Switzerland. Internal-combustion engine. No. 1,342,950; June 8; v. 275; p. 315.
Fehniger, Martin J., Chicago, Ill. Valve mechanism for flushing-tanks. No. 1,362,246; Dec. 14; v. 281; p. 300.
Fehr, Frank, Louisville, Ky. Process and apparatus for extracting alcohol from liquids. No. 1,345,437; July 6; v. 276; p. 21.
Fehrle, Thomas F., Philadelphia, Pa. Hopper. No. 1,346,310; July 13; v. 276; p. 256.
Feick, George D., Ayton, Ontario, Canada. Discharging device for threshing-machines. No. 1,331,007; Feb. 17; v. 271; p. 412.
Felden, Peter, Jr., St. Joseph, Mo. Wheel-guard. No. 1,345,916; July 6; v. 276; p. 116.
Feige, Sterling E., Akron, Ohio. Garment. No. 1,354,289; Sept. 28; v. 278; p. 647.
Feigelson, Alexander, Beaumont, Tex. Trailer. No. 1,351,102; Aug. 31; v. 277; p. 811.
Feilbach, Arthur O., North Milwaukee, Wis. Tool for lifting valve-springs. No. 1,328,228; Jan. 13; v. 270; p. 314.
Feild, Alexander L., Lakewood, Ohio, assignor to National Carbon Company, Inc. Non-metallic resistance element and making same. No. 1,349,053; Aug. 10; v. 277; p. 231.
Feindel, Edward, Richfield, Idaho. Valve-lifting device. No. 1,329,518; Feb. 3; v. 271; p. 33.
Feingold, Bernard, New York, N. Y. Dish-drier. No. 1,348,792; Aug. 3; v. 277; p. 127.
Feist, Charles M., Sioux City, Iowa. Wheel-bearing. No. 1,344,495; June 22; v. 275; p. 747.
Feitel, Chester, *et al.* (See Feitel, Isaac, assignor.)
Feitel, Gladys, *et al.* (See Feitel, Isaac, assignor.)
Feitel, Helen G., *et al.* (See Feitel, Isaac, assignor.)
Feitel, Irvin, *et al.* (See Feitel, Isaac, assignor.)
Feitel, Isaac, deceased, New Orleans, La., assignor, by mesne assignments, of one-half to The American Well Works, Aurora, Ill., and, by judicial order, one-fourth to H. G. Feitel, widow, and one-fourth to J. F. Jaubert, I. Feitel, E. F. Heilburn, C. Feitel, and G. Feitel. Rotary boring-drill. No. 1,362,247; Dec. 14; v. 281; p. 300.
Fekete, Stephen I. (See Baits, S. G., and Fekete.)
Fekete, Stephen I., assignor, by mesne assignments, to Essex Motors, Detroit, Mich. Fuel-supply mechanism for internal-combustion engines. No. 1,328,142; Jan. 13; v. 270; p. 298.
Fekete, Stephen I., assignor to Essex Motors, Detroit, Mich. Internal-combustion engine. No. 1,330,436; Feb. 10; v. 271; p. 235.
Fekete, Stephen I., assignor, by mesne assignments, to Essex Motors, Detroit, Mich. Cooling apparatus for internal-combustion engines. No. 1,338,722; May 4; v. 274; p. 14.
Fekete, Stephen I., assignor, by mesne assignments, to Essex Motors, Detroit, Mich. Internal-combustion engine. No. 1,343,668; June 15; v. 275; p. 520.
Fekete, Stephen I., assignor to Essex Motors, Detroit, Mich. Valve mechanism. No. 1,356,914; Oct. 26; v. 279; p. 624.

Digitized by Google

Fekete, Stephen I., and S. G. Baits, assignors to Essex Motors, Detroit, Mich. Motor-vehicle body. No. 1,333,609; Mar. 16; v. 272; p. 384.

Fekete, Stephen I., and S. G. Baits, assignors to Essex Motors, Detroit, Mich. Gear-engaging mechanism for self-starters. No. 1,347,265; July 20; v. 276; p. 503.

Feldenheimer, Isaac. (See Miller, J. B., and Bruninga, assignors.)

Feldine, Michel, New York, N. Y. Waterproof magneto construction. No. 1,358,627; Nov. 9; v. 280; p. 339.

Feldman, Edward. (See Engel, H., and Feldman.)

Feldman, Manuel, New York, N. Y. Rug. No. 1,342,259; June 1; v. 275; p. 127.

Feldman, Morris, Los Angeles, Calif. Clothes-rack. No. 1,350,017; Aug. 17; v. 277; p. 492.

Feldmann, William, Chicago, Ill. Temporary binder. No. 1,337,213; Apr. 20; v. 273; p. 420.

Felix, Hugo I., Kansas City, Mo. Combined tie-fastener and soft-collar retainer. No. 1,359,495; Nov. 23; v. 280; p. 598.

Fell, Charles, Elyria, Ohio, assignor to National Tube Company, Pittsburgh, Pa. Coating mixture. No. 1,358,304; Nov. 9; v. 280; p. 274.

Felland, Olaf E., Bloomer, Wis. Bench-dog. No. 1,357,970; Nov. 9; v. 280; p. 208.

Feller, John E. O., Canton, Ohio. Automobile-locking device. No. 1,359,883; Nov. 23; v. 280; p. 675.

Fellers, William M., Warrington, Fla. Automobile-headlight. No. 1,350,491; Aug. 24; v. 277; p. 632.

Fellheimer, Alfred, New York, N. Y. Ticket-seller's case. No. 1,333,610; Mar. 16; v. 272; p. 384.

Fellows, Edwin R., Springfield, Vt. Gear-generating machine. No. 1,338,685; May 4; v. 274; p. 7.

Fels, William, assignor to M. Nydegger, Elizabeth, N. J. Buttless knitting-machine needle. No. 1,354,096; Sept. 28; v. 278; p. 608.

Felsenthal Brothers & Company. (See Felsenthal, H., and Kaestner, assignors.)

Felsenthal, Gabriel, Chicago, Ill. Powder-receptacle. No. 1,347,149; July 20; v. 276; p. 480.

Felsenthal, Henry, and L. W. Kaestner, Chicago, Ill., assignors to Felsenthal Brothers & Company. Toilet-case. No. 1,344,124; June 22; v. 275; p. 674.

Felstrup, Andrew R., Pasadena, Calif. Protector for pencils and the like. No. 1,362,406; Dec. 14; v. 281; p. 330.

Felt, Peter O., Mortlach, Saskatchewan, Canada. Water-driven machine. No. 1,363,101; Dec. 21; v. 281; p. 517.

Felt & Tarrant Manufacturing Company. (See Niemann, Frederick A., assignor.)

Felt & Tarrant M'f'g. Co. (See Turck, Joseph A. V., assignor.

Felt, Vanderlyn H., assignor of forty-nine one-hundredths to W. A. Crandall, Kendall, N. Y. Elevator. No. 1,338,127; Apr. 27; v. 273; p. 664.

Felten, Charles H., West Hoboken, N. J. Automobile-signal. No. 1,352,946; Sept. 14; v. 278; p. 276.

Felten & Guilleaume Fabrik Elektrischer Kabel, Stahl- und Kupferwerke Aktiengesellschaft. (See Knaur, Richard, assignor.)

Felter, William W., Arkansas City, Kans. Forming clamp for two-piece snow-shoes. No. 1,352,362; Sept. 7; v. 278; p. 124.

Felthousen, John H., assignor to S. Morgan Smith Company, York, Pa. Turbine. No. 1,339,183; May 4; v. 274; p. 99.

Feltman, Charles H. (See Shogran, Leonard, assignor.)

Feltman, Charles L., Brooklyn, N. Y. Amusement device. No. 1,358,305; Nov. 9; v. 280; p. 274.

Felts, Loring I., Adams, Kans. Box-opener. No. 1,363,579; Dec. 28; v. 281; p. 650.

Fend, Roland S., Chicago, Ill., assignor to The Baker R & L Company, Cleveland, Ohio. Automobile. No. 1,337,007; Apr. 13; v. 273; p. 307.

Fend, Roland S., Chicago, Ill., assignor to The Baker R & L Company, Cleveland, Ohio. Automobile. No. 1,337,008; Apr. 13; v. 273; p. 307.

Fendelman, Morris, St. Louis, Mo. Cap. No. 1,331,701; Feb. 24; v. 271; p. 561.

Fender, Joe N., Dallas, Tex. Well-cable pump. No 1,347,806; July 27; v. 276; p. 667.

Fenety, Witter W. O., Fredericton, New Brunswick, Canada. Incandescent-lamp socket. No. 1,336,736; Apr. 13; v. 273; p. 255.

Fenger-Grön, Andreas, Hellerup, Denmark. Manufacturing insulating bodies of "moler." No. 1,338,566; Apr. 27; v. 278; p. 746.

Fenn, Arthur G., Hartford, Conn. Indicator. No 1,348,162; Aug. 3; v. 277; p. 6.

Fenn, Libbie R. (See Cathrill, Jack, assignor.)

Fennelli, Robert J., New York, N. Y., assignor, by mesne assignments, to Victor X Ray Corporation, Cambridge, Mass. Dentist's record-holder. No. 1,361,703; Dec. 7; v. 281; p. 145.

Fenner, Albert C. (See Bloom, J. S., and Fenner.)

Fennessy, John P., Providence, R. I. Snap-hook for tire-chains. No. 1,338,686; May 4; v. 274; p. 7.

Fenske, Paul J., Mart, Tex. Rail-joint. No. 1,350,215; Aug. 17; v. 277; p. 581.

Fenton, Frank, assignor to The Miller Rubber Company, Akron, Ohio. Making pneumatic tires and air-bags therefor. No. 1,335,101; Mar. 30; v. 272; p. 772.

Fenton, John A., North Andover, Mass. Stop-motion. No. 1,353,226; Sept. 21; v. 278; p. 390.

Fenton, Walter, Manchester, England, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,327,908; Jan. 13; v. 270; p. 258.

Fentress, Henry C., Glen Dean, Ky. Automatic take-off device for glass-blowing machines. No. 1,336,028; Apr. 6; v. 273; p. 62.

Fentress, Henry C., Glen Dean, Ky. Automobile-starter. No. 1,352,803; Sept. 14; v. 278; p. 248.

Fentress, James, Chicago, Ill. Weaving or braiding shuttle support. No. 1,363,858; Dec. 28; v. 281; p. 705.

Fenwick, Joseph R., Hampton, assignor of three-fourths to B. M. Hay, St. John, New Brunswick, Canada, and one-quarter to T. J. White, New York, N. Y. Battery. No. 1,357,858; Nov. 2; v. 280; p. 126.

Ferch, Walter H., Milwaukee, Wis. Traction device for automobiles and the like. No. 1,346,813; July 20; v. 276; p. 414.

Ferdon, Guy W., Cresskill, N. J. Oil heating-stove. No. 1,330,691; Feb. 10; v. 271; p. 283.

Ferdon, Guy W., Cresskill, N. J. Elastic-spring-clamping-catch holder. No. 1,350,713; Aug. 24; v. 277; p. 675.

Ferdon, Guy W., Cresskill, N. J. Garbage-can. No. 1,353,127; Sept. 14; v. 278; p. 310.

Ferdon, Guy W., Cresskill, N. J. Adjustable food-carrier. No. 1,362,933; Dec. 21; v. 281; p. 484.

Fereday, Frederick T., Albany, N. Y., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. No. 1,348,101; July 27; v. 276; p. 726.

Fergus, Walter L., St. John, Kans. Gear-shifting mechanism for motor-vehicles. No. 1,331,426; Feb. 17; v. 271; p. 489.

Ferguson, E. M., *et al.* (See Auger, Joseph T., assignor.)

Ferguson, George, Wollaston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Rubber-sole shoe. No. 1,348,163; Aug. 3; v. 277; p. 6.

Ferguson, George, Wollaston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Apparatus for producing soles. No. 1,354,734; Oct. 5; v. 279; p. 57.

Ferguson, Harry D., Dowagiac, Mich. Vulcanizer for boots and shoes. No. 1,358,068; Nov. 9; v. 280; p. 228.

Ferguson, Isaac, Shelby, Ohio. Power hoisting and conveying machine. No. 1,343,966; June 22; v. 275; p. 643.

Ferguson, Louis A., Evanston, and H. S. Sines, Oak Park, Ill.; said Sines assignor to said Ferguson. Gas-metering apparatus. No. 1,327,989; Jan. 13; v. 270; p. 268.

Ferguson, Manton M., Des Moines, Iowa. Picture hanger and hook remover. No. 1,339,444; May 11; v. 274; p. 223.

Ferguson, Marie A., Newark, N. J. Water-closet seat. No. 1,327,275; Jan. 6; v. 270; p. 74.

Ferguson, Milford B., and E. Haas, Brooklyn, N. Y. Wrapping mechanism for candy. No. 1,329,236; Jan. 27; v. 270; p. 569.

Ferguson, Peter L., Sparks, Nev. Trowel. No. 1,331,097; Feb. 17; v. 271; p. 429.

Ferguson, Robert F., Detroit, Mich. Lamp-bracket. No. 1,343,499; June 15; v. 275; p. 486.

Ferguson, Thomas R., and E. L. Larson, Chicago, Ill., assignors to Alfred O. Blaich Company. Carbonizing steel. No. 1,343,359; June 15; v. 275; p. 458.

Ferguson, William D., San Antonio, Tex. Clamp. No. 1,331,491; Feb. 24; v. 271; p. 521.

Ferguson, William W., New Haven, Conn. Tree-holder. No. 1,333,480; Mar. 9; v. 272; p. 299.

Ferguson, Willis G., Cleveland, Ohio. Control system for valves and the like. No. 1,336,515; Apr. 6; v. 273; p. 212.

Fergusson, Alan R., New York, N. Y. Indexing and recording means. No. 1,344,627; June 29; v. 275; p. 838.

Fergusson, Sterling P., Washington, D. C. Kite-frame or like structure. No. 1,328,143; Jan. 13; v. 270; p. 298.

Ferko, John J., Cleveland, Ohio. Stabilizer for boats. No. 1,336,688; Apr. 13; v. 273; p. 246.

Fermier, Victor E., Forney, Tex. Toy. No. 1,332,822; Mar. 2; v. 272; p. 124.

Fernald, Mark E., Saugus, Mass. Automatic machine. No. 1,328,144; Jan. 13; v. 270; p. 298.

Fernandes, Manuel B., Jr., assignor of one-fourth to M. B. Fernandes, Sr., Lihue, Hawaii. Harrow. No. 1,348,100; July 27; v. 276; p. 726.

Fernandes, Manuel B., Sr. (See Fernandes, M. B., Jr., and Fernandes, Sr.)

Fernández, Francisco L., Habana, Cuba. Vehicle-wheel. No. 1,340,944; May 25; v. 274; p. 635.

Fernandez, Genaro. (See Alsina, V. C., and Fernandez.)

Fernandez, Guy D., Haddon Heights, N. J. Renewable fuse. No. 1,349,269; Aug. 10; v. 277; p. 274.

Fernans, Anthony W., Pawtucket, R. I. Traffic-signal for automobiles. No. 1,338,430; Apr. 27; v. 273; p. 720.

Ferngren, Enoch T., Kansas City, Mo. Glass-molding apparatus. No. 1,328,273; Jan. 20; v. 270; p. 359.

Ferngren, Enoch T., Beaver, Pa. Removing glass from furnaces. No. 1,342,042; June 1; v. 275; p. 84.

Digitized by Google

Ferngren, Enoch T., Washington, D. C., assignor to Hartford-Fairmont Company. Obtaining mold charges of glass and apparatus therefor. No. 1,362,785; Dec. 21; v. 281; p. 457.
Fernow, Bernard E., Jr., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electromagnetically-controlled brake. No. 1,338,980; May 4; v. 274; p. 61.
Feroldi, Enrico, Turin, Italy. Carbureter. No. 1,347,150; July 20; v. 276; p. 480.
Ferrari, Lorenzo, Oakland, Calif. Collapsible boat. No. 1,350,798; Nov. 23; v. 280; p. 658.
Ferrell, Arthur, Trinidad, Colo. Rotary-center knockdown table. No. 1,354,735; Oct. 5; v. 279; p. 57.
Ferrell, Elmer C. (See Brumfield, James H., assignor.)
Ferrell, George W., Sedalia, Mo. Transfer-punching machine. No. 1,363,102; Dec. 21; v. 281; p. 517.
Ferris, Alfred J., Philadelphia, Pa. Tire-holder. No. 1,349,270; Aug. 10; v. 277; p. 274.
Ferris, Henry L., assignor to Hunt, Helm, Ferris & Company, Harvard, Ill. Water-bowl and exhibiting-stand therefor. No. 1,330,437; Feb. 10; v. 271; p. 235.
Ferris, Henry L., assignor to Hunt, Helm, Ferris & Company, Harvard, Ill. Water-bowl. No. 1,330,438; Feb. 10; v. 271; p. 235.
Ferris, Henry L., assignor to Hunt, Helm, Ferris & Company, Harvard, Ill. Water-bowl. No. 1,330,439; Feb. 10; v. 271; p. 236.
Ferris, Henry L., assignor to Hunt, Helm, Ferris & Company, Harvard, Ill. Water-bowl. No. 1,330,440; Feb. 10; v. 271; p. 236.
Ferris, Henry L., assignor to Hunt, Helm, Ferris & Company, Harvard, Ill. Hay-wagon construction. No. 1,333,300; Mar. 9; v. 272; p. 285.
Ferris, Henry L., assignor to Hunt, Helm, Ferris & Company, Harvard, Ill. Stall construction. No. 1,347,941; July 27; v. 276; p. 694.
Ferris, Henry L., assignor to Hunt, Helm, Ferris & Company, Harvard, Ill. Barn-door track. No. 1,355,548; Oct. 12; v. 279; p. 270.
Ferris, Howard J., assignor to Hunt, Helm, Ferris & Company, Harvard, Ill. Solid wheel and tire. No. 1,341,308; May 25; v. 274; p. 705.
Ferris, Joe, Morris, Ill. Surface cultivator. No. 1,353,992; Sept. 28; v. 278; p. 586.
Ferris, Katharine C., deceased, Tryon, N. C.; Guaranty Trust Company of New York, executor. Fire-ladder. No. 1,359,680; Nov. 23; v. 280; p. 635.
Ferris, Philomene, Westwood, Calif. Shoe-fastener. No. 1,348,703; Aug. 3; v. 277; p. 111.
Ferris, Ralph E. (See Hellmund, R. E., and Ferris.)
Ferris, Ralph E., assignor to Westinghouse Electric & Manufacturing Company, Swissvale, Pa. System of control. No. 1,355,549; Oct. 12; v. 279; p. 270.
Ferris, Robert, Yankton, S. D. Apparatus for dispensing ice-cream or other material in paper cartons. No. 1,354,246; Sept. 28; v. 278; p. 639.
Ferris, Walter, assignor to Bucyrus Company, South Milwaukee, Wis. Car and platform for locomotive-cranes and the like. No. 1,358,835; Nov. 16; v. 280; p. 425.
Ferris, Walton C., assignor to National Manufacturing Company, Lincoln, Nebr. Safety-valve for pressure-cookers. No. 1,328,653; Jan. 20; v. 270; p. 431.
Ferriss, Edward, Carson Lake, Minn. Attachment for gas-engine radiators. No. 1,341,419; May 25; v. 274; p. 727.
Ferro Machine and Foundry Company, The. (See Brewster and Welsehan, assignors.)
Ferry, Joseph D., Niles, Calif. Exposure-indicator. No. 1,344,873; June 29; v. 275; p. 885.
Féry, Charles, Paris, France. Electric cell. No. 1,356,977; Oct. 26; v. 279; p. 636.
Fesler, Andrew, Detroit, Mich., assignor, by mesne assignments, to The Bassick Manufacturing Company. Lubricating apparatus. No. 1,342,671; June 8; v. 275; p. 259.
Fesler, Douglas F., Evanston, Ill., assignor, by mesne assignments, to The Bassick Manufacturing Company. Lubricating apparatus. No. 1,341,892; June 1; v. 275; p. 55.
Fesler, Douglas F., Evanston, assignor to Hedman Manufacturing Company, Chicago, Ill. Check. No. 1,343,865; June 15; v. 275; p. 560.
Fesler, Douglas F., assignor, by mesne assignments, to The Bassick Manufacturing Company, Evanston, Ill. Lubricating apparatus. No. 1,361,375; Dec. 7; v. 281; p. 79.
Fesler, Douglas F., and H. R. Hedman, assignors to Hedman Manufacturing Co., Chicago, Ill. Printing apparatus. No. 1,338,645; Apr. 27; v. 273; p. 760.
Fesler, John A., Detroit, Mich. Lubricating apparatus. No. 1,341,420; May 25; v. 274; p. 728.
Fesler, John A., Detroit, Mich. Lubricating apparatus. No. 1,355,901; Oct. 19; v. 279; p. 378.
Fessenden, George R., assignor to North East Electric Company, Rochester, N. Y. Wheel-puller. No. 1,357,698; Nov. 2; v. 280; p. 94.
Fessenden, Reginald A., Brookline, Mass. Method and apparatus for cooling and lubricating systems. No. 1,331,907; Feb. 24; v. 271; p. 601.
Fessenden, Reginald A., Chestnut Hill, Mass. Artificial-leather article. No. 1,357,449; Nov. 2; v. 280; p. 47.
Fessenden, Reginald A., Brookline, Mass., assignor to Submarine Signal Company, Portland, Me. Locating enemy-gun positions. No. 1,341,795; June 1; v. 275; p. 36.
Fessenden, Reginald A., Brookline, Mass., assignor to Submarine Signal Company, Portland, Me. Apparatus for submarine signaling. No. 1,348,556; Aug. 3; v. 277; p. 83.
Fessenden, Reginald A., Brookline, Mass., assignor to Submarine Signal Company, Portland, Me. Method and apparatus for detecting low-frequency impulses. No. 1,348,825; Aug. 3; v. 277; p. 133.
Fessenden, Reginald A., Brookline, Mass., assignor to Submarine Signal Company, Portland, Me. Method and apparatus for submarine signaling and detection. No. 1,348,826; Aug. 3; v. 277; p. 133.
Fessenden, Reginald A., Brookline, Mass., assignor to Submarine Signal Company, Portland, Me. Method and apparatus for submarine signaling. No. 1,348,827; Aug. 3; v. 277; p. 133.
Fessenden, Reginald A., Brookline, Mass., assignor to Submarine Signal Company, Portland, Me. Method and apparatus for sound insulation. No. 1,348,828; Aug. 3; v. 277; p. 134.
Fessenden, Reginald A., Brookline, Mass., assignor to Submarine Signal Company, Portland, Me. Method and apparatus for locating submarines. No. 1,348,855; Aug. 10; v. 277; p. 192.
Fessenden, Reginald A., Brookline, Mass., assignor to Submarine Signal Company, Portland, Me. Apparatus for directive signaling. No. 1,348,856; Aug. 10; v. 277; p. 192.
Fessenden, Reginald A., Brookline, Mass., assignor to Submarine Signal Company, Portland, Me. Apparatus for directive signaling. No. 1,355,598; Oct. 12; v. 279; p. 279.
Fessler, Frank, Des Moines, Iowa. Opera-chair. No. 1,339,445; May 11; v. 274; p. 223.
Fetcher, Theophil J., Norwalk, Wis. Manure-spreader sleigh. No. 1,334,443; Mar. 23; v. 272; p. 587.
Fetherston, John T., New York, N. Y. Loading apparatus. No. 1,333,165; Mar. 9; v. 272; p. 239.
Fette, Charlotte G., Shelton, Conn. Dustless ash-sifter. No. 1,347,151; July 20; v. 276; p. 480.
Fette, Charlotte G., Shelton, Conn. Automobile-gear lock. No. 1,363,766; Dec. 28; v. 281; p. 686.
Fetterly, John F. (See Langenberg, F. C., and Fetterly.)
Fetters, Charles A., Washington, D. C. Leash-stick. No. 1,331,633; Feb. 24; v. 271; p. 549.
Fetters, Norman C., and C. R. Richards, Alliance, Ohio. Vacuum-cleaner. No. 1,363,859; Dec. 28; v. 281; p. 705.
Fetters, Norman C., and C. R. Richards, Alliance, Ohio. Dust-collector. No. 1,363,860; Dec. 28; v. 281; p. 705.
Feuser, Conrad, Bloomfield, N. J. Radiator air-valve. No. 1,340,439; May 18; v. 274; p. 469.
Feybusch, Martin, New York, N. Y. Take-off device for gumming-machines. No. 1,355,219; Oct. 12; v. 279; p. 206.
Feyk, Anton. (See Dusha, P. F., and Feyk.)
Feyrer, Ernest C., Pittsburgh, Pa. Light-treatment apparatus. No. 1,354,813; Oct. 5; v. 279; p. 74.
Fiala, Anthony, U. S. Army. Silencer and flash-obscurer. No. 1,341,363; May 25; v. 274; p. 717.
Fibre Container Company. (See Walter, Harrison B., assignor.)
Fibre Corporation. (See Michot, Georges, assignor.)
Fibre Manufacturing Company. (See Frothingham, Samuel T., assignor.)
Fichten, Frank M., Milwaukee, Wis., assignor to F. Rigk mire, Paterson, N. J. Antiskid attachment for tires. No. 1,349,149; Aug. 10; v. 277; p. 250.
Fichtenbaum, Oscar, New York, N. Y. Convertible sofa. No. 1,363,400; Dec. 28; v. 281; p. 615.
Fickersen, Henry, Brooklyn, N. Y. Heater. No. 1,346,704; July 13; v. 276; p. 334.
Fickes, William A., Altoona, Pa. Carpet-sweeper. No. 1,344,389; June 22; v. 275; p. 726.
Fiddes, Oscar H. (See Wigmore, William J., and Fiddes.)
Fiddyment, John C., Akron, Ohio. Fluid-extracting press. No. 1,333,249; Mar. 9; v. 272; p. 255.
Fiddyment, John C., Akron, Ohio. Tire-core-sawing machine. No. 1,339,815; May 11; v. 274; p. 294.
Fiddyment, John C., Akron, Ohio. Machine for finishing tire-molds. No. 1,339,816; May 11; v. 274; p. 294.
Fidler, Francis, Wigan, and J. G. Maxwell, London, England. Kiln. No. 1,341,550; May 25; v. 274; p. 753.
Fido, Edwin G., Bombay, India. Pneumatic tire. No. 1,336,348; Apr. 6; v. 273; p. 121.
Fidrocki, Antoni B., Lynn, Mass. Permutation-lock. No. 1,339,446; May 11; v. 274; p. 223.
Fieber, John W., Shaw, Oreg. Hot-air heater. No. 1,352,804; Sept. 14; v. 278; p. 248.
Fiege, Raymond G., Cleveland, Ohio. Automatic oiler. No. 1,338,914; May 4; v. 274; p. 49.
Fiege, Raymond G., Cleveland, Ohio. Automatic oiler. No. 1,344,078; June 22; v. 275; p. 665.
Field, Crosby, Washington, D. C. Unsheathing and pulverizing machine. No. 1,346,119; July 13; v. 276; p. 218.

Digitized by Google

Field, Crosby, Brooklyn, N. Y., assignor to Chemical Machinery Corporation, New York, N. Y. Drying process and apparatus therefor. No. 1,358,431; Nov. 9; v. 280; p. 301.

Field, Edward A., assignor of one-half to E. A. Field, Jr., Chicago, Ill. Connecting-rod assembly. No. 1,329,389; Feb. 3; v. 271; p. 9.

Field, Edward A., Jr., Grand Rapids, Mich., assignor of one-fourth to E. A. Field, Sr., Chicago, Ill. Engine-lubricator. No. 1,329,388; Feb. 3; v. 271; p. 8.

Field, Edward A., Jr., Grand Rapids, Mich., assignor of one-half to E. A. Field, Sr., Chicago, Ill. Internal-combustion engine. No. 1,333,611; Mar. 16; v. 272; p. 384.

Field, Edward A., Jr., Grand Rapids, Mich., assignor of one-half to E. A. Field, Sr., Chicago, Ill. Internal-combustion engine. No. 1,339,447; May 11; v. 274; p. 224.

Field, Edward A., Jr., Oak Park, assignor of one-fourth to E. A. Field, Sr., Chicago, Ill. Governor. No. 1,354,608; Oct. 5; v. 279; p. 32.

Field, Edward A., Sr. (See Field, E. A., Jr., assignor.)

Field, Edward A., Sr. (See Field, Edward A., Jr., assignor.)

Field, Joseph C., Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. No. 1,333,014; Mar. 9; v. 272; p. 212.

Field, Joseph C., Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Selectively-operated circuit-controlling device. No. 1,343,256; June 15; v. 275; p. 439.

Field, Joseph C., Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Impulse-transmitting device. No. 1,354,814; Oct. 5; v. 279; p. 74.

Field, Millard F., and C. D. Lanning, Boston, Mass., assignors, by mesne assignments, to Barber-Colman Company, Rockford, Ill. Mechanism for operating upon warp-threads or the like. No. 1,344,795; June 29; v. 275; p. 871.

Field, Oscar S., Elizabeth, N. J., assignor to Hall Switch & Signal Co. Alternating-current relay. No. 1,333,070; Mar. 9; v. 272; p. 222.

Field, Samuel. (See Sulman, H. L., and Field.)

Field, Samuel, assignor to The Metals Extraction Corporation, Limited, London, England. Purification of zinc solutions. No. 1,331,334; Feb. 17; v. 271; p. 471.

Field, Samuel, assignor to The Metals Extraction Corporation, Limited, London, England. Purification of zinc solutions. No. 1,337,058; Apr. 13; v. 273; p. 318.

Field, Thaddeeus S., Atlanta, Ga. Horseshoe. No. 1,347,021; July 20; v. 276; p. 455.

Field, William H., Jr., Winchester, Mass. Measuring instrument. No. 1,342,992; June 8; v. 275; p. 324.

Fields, Alpheus, *et al.* (See Parker, George C., assignor.)

Fields, Cora G., Huntington, W. Va. Baby-band. No. 1,359,346; Nov. 16; v. 280; p. 524.

Fields, Elta E., Marion, Ohio. Combined curtain and shade support. No. 1,344,298; June 22; v. 275; p. 708.

Fields, James A., and J. J. Witte, San Antonio, Tex. Tire-chain. No. 1,334,363; Mar. 23; v. 272; p. 572.

Fields, William J. (See Gilbert, Battie B., assignor.)

Fiero, George M., Pittsburgh, Pa. Rail-clamp. No. 1,332,117; Feb. 24; v. 271; p. 639.

Fietsch, John F., Forest Park, Ill. Device for measuring material for tooth-fillings. No. 1,353,467; Sept. 21; v. 278; p. 437.

Fife, Ikley C., Toledo, Ohio. Garment-fastener. No. 1,360,385; Nov. 30; v. 280; p. 842.

Fife, Ikley C., Toledo, Ohio. Garment-fastener. No. 1,360,386; Nov. 30; v. 280; p. 842.

Fifield, Albert F. (See Barron, W. L., and Fifield.)

Fifield, Albert F., Newark, N. J., assignor to The Singer Manufacturing Company. Thread-severing mechanism for sewing-machines. No. 1,346,814; July 20; v. 276; p. 414.

Fifield, Chester C., Des Moines, Iowa. Non-freezable watering device. No. 1,348,489; Aug. 3; v. 277; p. 70.

Fiftal, Walter, Waterbury, Conn. Interchangeable-jawed tool. No. 1,338,005; Apr. 27; v. 273; p. 640.

Fifth Avenue Coach Company. (See Wolton, Edward, assignor.)

Figari, Francesco, Genoa, Italy. Portable testing-machine. No. 1,332,491; Mar. 2; v. 272; p. 61.

Figgshu, William L., assignor of one-half to O. Heymann, Philadelphia, Pa. Bowling-alley. No. 1,329,285; Jan. 27; v. 270; p. 569.

Figliolo, Nicolo. (See Evans, William F., assignor.)

Figour, Maurice, assignor to Etablissements Continsouza, Société Anonyme, Paris, France. Star-wheel transmission. No. 1,338,823; May 4; v. 274; p. 32.

Figueroa, Peter P., New York, N. Y. Bathing-cabinet. No. 1,330,312; Feb. 10; v. 271; p. 212.

Figueroa, Peter P., New York, N. Y. Display-exhibitor. No. 1,341,116; May 25; v. 274; p. 669.

Filbar Electric Heater, The. (See Smith, William H., assignor.)

Files, Ivan, Waterville, Me. Trap-setting device. No. 1,358,141; Nov. 9; v. 280; p. 242.

Filkins, Arthur J., Chicago, Ill. Smoke-jack. No. 1,349,666; Aug. 17; v. 277; p. 425.

Filkins, George H., Watervliet, assignor of one-half to J. F. Murray, Troy, N. Y. Automobile device. No. 1,328,654; Jan. 20; v. 270; p. 431.

Fillis, James, Wilmington, Del. Pipe-coupling. No. 1,354,815; Oct. 5; v. 279; p. 74.

Fillman, John E. (See Hays, J. M., and Fillman.)

Finberg, David H., St. Louis, Mo. Shoe-heel. No. 1,335,371; Mar. 30; v. 272; p. 822.

Finberg, Harry D., Roxbury, and S. S. Levy, Dorchester, Mass. Heater. No. 1,355,220; Oct. 12; v. 279; p. 206.

Finberg, Joseph, and C. T. Heller, Jr., St. Paul, Minn. Non-refillable bottle. No. 1,362,564; Dec. 14; v. 281; p. 361.

Finch, Albert E., assignor to Belt Grip Pulley Company, Buffalo, N. Y. Caster. No. 1,342,500; June 8; v. 275; p. 226.

Finch, Clifton R., Newark, N. J. Framework for display publicity by machine. No. 1,336,831; Apr. 13; v. 273; p. 273.

Finch, Clifton R., Newark, N. J. Exhibiting or display device. No. 1,358,534; Nov. 9; v. 280; p. 321.

Finch, Emery D., Atlanta, N. Y. Automobile-stop. No. 1,334,147; Mar. 16; v. 272; p. 485.

Finch, Herbert I. (See Winter, W. G., and Finch.)

Finch, John S. (See Eames, G. M., and Finch.)

Finch, William. (See Arnett, Albert C., assignor.)

Finch, William G. H., New York, N. Y. Wireless receiving and recording apparatus. No. 1,331,098; Feb. 17; v. 271; p. 429.

Finckh, Fritz, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Turntable for railway-guns. No. 1,359,977; Nov. 23; v. 280; p. 694.

Finckh, Fritz, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Gun with railway gun-carriage. No. 1,360,512; Nov. 30; v. 280; p. 867.

Finckh, Fritz, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Turntable for railway-guns. No. 1,360,513; Nov. 30; v. 280; p. 868.

Finckh, Fritz, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Support for the gun-carriages of railway-guns on turntables. No. 1,360,514; Nov. 30; v. 280; p. 868.

Findeisen & Kropf Mfg. Co. (See Edwards, William A., assignor.)

Findeisen & Kropf Manufacturing Company. (See Rayfield, Charles L., assignor.)

Findley, A. H., *et al.* (See Niland, Andrew, assignor.)

Findley, Charles P., Los Angeles, Calif. Oil-agitator. No. 1,363,962; Dec. 28; v. 281; p. 724.

Findley, William A., San Francisco, Calif. Tool. No. 1,351,947; Sept. 7; v. 278; p. 47.

Fine, Jacob, Louisville, Ky. Apparatus for applying fasteners. No. 1,355,457; Oct. 12; v. 279; p. 262.

Finerty, J. P., Dunmore, and F. Croghan, Scranton, Pa. Removable brass for locomotive-boxings and locking means therefor. No. 1,358,306; Nov. 9; v. 280; p. 274.

Finger, Will, Gastonia, N. C. Whiffletree. No. 1,356,058; Oct. 19; v. 279; p. 409.

Fingerhut, Carl, Chicago, Ill. Picture-frame. No. 1,363,463; Dec. 28; v. 281; p. 627.

Finizio, Thomas D., Kitchawan, N. Y. Attaching-plug. No. 1,331,634; Feb. 24; v. 271; p. 549.

Fink, Charles D., Toledo, Ohio. Hog-feeder. No. 1,333,800; Mar. 16; v. 272; p. 420.

Fink, Colin G., East Orange, N. J., assignor to General Electric Company. Alloy. No. 1,342,993; June 8; v. 275; p. 324.

Fink, Colin G., Yonkers, assignor to Chile Exploration Company, New York, N. Y. Casting ferro-manganese. No. 1,361,036; Dec. 7; v. 281; p. 11.

Fink, Esther B., Charleston, W. Va. Button-clasp. No. 1,342,161; June 1; v. 275; p. 108.

Fink, Esther B., Charleston, W. Va. Shoe-lace tip. No. 1,364,044; Dec. 28; v. 281; p. 740.

Fink, Eugene L., Deloit, Iowa. Hen's nest. No. 1,347,266; July 20; v. 276; p. 503.

Fink, Israel J., New York, N. Y. Dental drill. No 1,358,432; Nov. 9; v. 280; p. 301.

Fink, Louis, Philadelphia, Pa. Submersible destroying or salvaging vessel. No. 1,346,743; July 13; v. 276; p. 341.

Fink, William H., Diagonal, Iowa. Record-repeating device for talking-machines. No. 1,331,702; Feb. 24; v. 271; p. 561.

Fink, William H., Diagonal, Iowa. Record-repeating device. No. 1,362,091; Dec. 14; v. 281; p. 269.

Fink, William O., South Range, Wis. Cattle-guard. No. 1,338,006; Apr. 27; v. 273; p. 640.

Finkbeiner, William M., *et al.* (See Thompson, Harry W., assignor.)

Finkelstein, Joseph, Brooklyn, N. Y. Cording-machine. No. 1,334,086; Mar. 16; v. 272; p. 474.

Finkelstein, Morris F., New York, N. Y. Electrical fitting. No. 1,336,290; Apr. 6; v. 273; p. 110.

Finks, Abraham J. (See Johns, C. O., and Finks.)

Finley, Coleman, Dudley, Ill. Can-opener. No. 1,341,421; May 25; v. 274; p. 728.

Digitized by Google

Finley, Harry O., Forres, Saskatchewan, Canada. Barrel-tap. No. 1,338,007; Apr. 27; v. 273; p. 641.
Finley, Sam E., Atlanta, Ga. Treating roadways. No. 1,341,458; May 25; v. 274; p. 735.
Finley, Thomas M., Oran, Mo. Aerocruiser. No. 1,328,040; Jan. 13; v. 270; p. 278.
Finn, Thomas F., North Andover, Mass. Stop mechanism for looms. No. 1,353,824; Sept. 28; v. 278; p. 552.
Finn, William J., Washington, D. C. Automobile-theft-detection device. No. 1,335,827; Apr. 6; v. 273; p. 23.
Finnegan, Bernard J., New York, N. Y. Bottle. No. 1,336,737; Apr. 13; v. 273; p. 256.
Finneran, Patrick J., Boston, Mass. Shoe. No. 1,355,827; Oct. 19; v. 279; p. 364.
Finnerty, Andrew J., *et al.* (See Calcaterra, Joseph, assignor.)
Finney, Curtiss W., Spokane, Wash. Valve-spring retainer. No. 1,327,539; Jan. 6; v. 270; p. 123.
Finnigan, George P., Richmond, Va. Electropneumatic control. No. 1,346,882; July 20; v. 276; p. 428.
Finnup, George W. (See Osborn, Frank, assignor.)
Fino Incorporated. (See Conlon, Richard T., assignor.)
Finsness, Helen. (See Tonstad, J., and Finsness.)
Finster, Jan W., Holyoke, Mass. Oil-feeding apparatus. No. 1,335,676. Mar. 30; v. 272; p. 879.
Finstrom, Gustaf L., Chicago, Ill. Extensible rule, &c. No. 1,338,176; Apr. 27; v. 273; p. 673.
Fioliolo, Nicolo, *et al.* (See Evans, William F., assignor.)
Fiorentini, Herman, Baltimore, Md. Plate-cleaning machine. No. 1,331,984; Feb. 24; v. 271; p. 615.
Fire Protection Securities Company. (See Roberts, Odin, assignor.)
Fireman, Benzion M., Chicago, Ill. Attachment for feed-bags. No. 1,359,681; Nov. 23; v. 280; p. 635.
Firesheets, Lawrence E., Riverside, Calif. Vehicle direction-signal. No. 1,357,040; Oct. 26; v. 279; p. 648.
Firestone, Adrian A., Cleveland, Ohio. Worm-gearing. No. 1,341,309; May 25; v. 274; p. 706.
Firestone, Russell M., Appleton, Wis. Combination furniture. No. 1,333,909; Mar. 16; v. 272; p. 440.
Firestone Steel Products Company, The. (See Hargraves, Albert, assignor.)
Firestone Tire and Rubber Company, The. (See Beck, O. F., Speers, and Jones, assignors.)
Firestone Tire and Rubber Company, The. (See Goodenberger, Daniel E., assignor.)
Firestone Tire and Rubber Company, The. (See MacDonald, Frank J., assignor.)
Firestone Tire and Rubber Company, The. (See Maranville, Harvey F., assignor.)
Firestone Tire and Rubber Company, The. (See Steele, Charles W., assignor.)
Firestone Tire & Rubber Company, The. (See Stevens, Horace D., assignor.)
Firestone Tire & Rubber Company. (See Stevens, William C., assignor.)
Firestone Tire and Rubber Company, The. (See Williams, William E., assignor.)
Firner, Joseph, Prescott, Wis. Window frame and sash. No. 1,330,034; Feb. 3; v. 271; p. 128.
Firpo, Arthur L. (See Johnson, Peter F., and Firpo.)
Firsching, Joseph A., Utica, N. Y. Winding and dyeing machine and winding and dyeing yarn, thread, and the like. No. 1,339,184; May 4; v. 274; p. 99.
Firsching, Joseph A., Utica, N. Y. Dyeing-machine. No. 1,356,059; Oct. 19; v. 279; p. 409.
First, Max, Brooklyn, N. Y. Filler-slug. No. 1,334,236; Mar. 16; v. 272; p. 501.
First Trust & Savings Company, The, trustee. (See Brockett and Lord, assignors.)
First Trust & Savings Company, The, trustee. (See Freeman, Ladbrook H., assignor.)
First Trust & Savings Company, The, *et al.*, trustees. (See Sommer, John, assignor.)
Firth, William P., *et al.* (See Goodwin, W. M., and Cadenhead, assignors.)
Fisch, Benjamin, Brooklyn, N. Y. Sleigh-runner attachment for vehicles. No. 1,337,833; Apr. 20; v. 273; p. 538.
Fisch, William F. L., Birmingham, Ala. Bread-making apparatus. No. 1,345,079; June 29; v. 275; p. 924.
Fisch, William H., Otis, Colo. Flexible lister harrow. No. 1,361,037; Dec. 7; v. 281; p. 11.
Fischacher, Henry L., Chicago, Ill. Proportional measuring instrument. No. 1,330,069; Feb. 10; v. 271; p. 167.
Fischbacher, Philip, Quincy, Ill., assignor to American Sanitary Refrigeration Co., Owensboro, Ky. Compressor for refrigerating machines. No. 1,360,910; Nov. 30; v. 280; p. 945.
Fischer, Adalbert, Philadelphia, Pa., assignor to Alien Property Custodian. Apparatus for burning oil. No. 1,344,029; June 22; v. 275; p. 656.
Fischer, Albert C., Kansas City, Mo. Engine. No. 1,349,054; Aug. 10; v. 277; p. 231.
Fischer, Albert T. (See Horr, John V., assignor.)
Fischer, Alexander T., Detroit, Mich. Device for oblique firing. No. 1,341,117; May 25; v. 274; p. 669.
Fischer, Alexander T., assignor of one-third to C. Fischer and one-third to M. Fischer, Detroit, Mich. Apparatus for deflecting fire of firearms. No. 1,348,987; Aug. 10; v. 277; p. 218.
Fischer, Arthur I. (See Yeiser, L. B., and Fischer.)
Fischer, Caroline, *et al.* (See Fischer, Alexander T., assignor.)
Fischer, Christian A., Grand Forks, N. D. Marker. No. 1,336,029; Apr. 6; v. 273; p. 62.
Fischer, Emil, assignor of one-third to C. E. Thayer and one-third to F. F. Fischer, Jackson, Mich. Metal fence-post. No. 1,331,385; Feb. 17; v. 271; p. 471.
Fischer, Ernst G., Washington, D. C. Sounding apparatus. No. 1,349,718; Aug. 17; v. 277; p. 435.
Fischer, Frank F., Brooklyn, N. Y. Opera-chair. No. 1,330,692; Feb. 10; v. 271; p. 283.
Fischer, Fred F., *et al.* (See Fischer, Emil, assignor.)
Fischer, Frederik, New York, N. Y. Key-ring. No. 1,341,228; May 25; v. 274; p. 690.
Fischer, Frederick F. (See Holland, James J., assignor.)
Fischer, George F., Rochester, N. Y. Shoe-heel. No. 1,350,216; Aug. 17; v. 277; p. 531.
Fischer, Howard L. (See Kristofek, F. J., and Fischer.)
Fischer, Howard L. (See Kristofek, Frank J., assignor.)
Fischer, Howard L., and F. J. Kristofek, St. Paul, Minn. Pencil. No. 1,349,950; Aug. 17; v. 277; p. 479.
Fischer, Howard L., assignor, by mesne assignments, of one-half to F. J. Kristofek, St. Paul, Minn. Pencil. No. 1,340,331; May 18; v. 274; p. 448.
Fischer, Jacob. (See Brandenstein and Fischer.)
Fischer, Joseph H., Milwaukee, Wis. Filling apparatus for electrolytic cells. No. 1,353,332; Sept. 21; v. 278; p. 410.
Fischer, Kuno, Berlin-Charlottenburg, assignor to Siemens Schuckert Werke, G. m. b. H., Berlin, Germany. Electric relay and the like. No. 1,328,041; Jan. 13; v. 270; p. 278.
Fischer, Louis G., Pittsburgh, Pa. Jack. No. 1,363,240; Dec. 28; v. 281; p. 585.
Fischer, Martin, Zurich, Switzerland. Device for igniting gas-jets. No. 1,327,813; Jan. 13; v. 270; p. 286.
Fischer, Mary, *et al.* (See Fischer, Alexander T., assignor.)
Fischer, Max, assignor to J. R. Geigy S. A., Basel, Switzerland. Making 2-aminoanthraquinone. No. 1,338,363; Apr. 27; v. 273; p. 708.
Fischer, Max, assignor to J. R. Geigy S. A., Basel, Switzerland. Making 2-aminoanthraquinone. No. 1,338,364; Apr. 27; v. 273; p. 708.
Fischer, Max, assignor to J. R. Geigy S. A., Basel, Switzerland. Making 2-aminoanthraquinone. No. 1,340,603; May 18; v. 274; p. 500.
Fischer, Moses. (See Foster, William B., assignor.)
Fischer, Philip A., New York, N. Y. Adjustable cap. No. 1,333,708; Mar. 16; v. 272; p. 403.
Fischer, Philip A., New York, N. Y. Adjustable cap. No. 1,337,397; Apr. 20; v. 273; p. 455.
Fischer, Sigismund F. (See Buenger, Frederick L., assignor.)
Fischer, Theodore C., Philadelphia, Pa. Automobile-lock. No. 1,346,371; July 13; v. 276; p. 267.
Fischer, William C., Newark, N. J. Shade-roller. No. 1,355,458; Oct. 12; v. 279; p. 252.
Fischer, William F., Philadelphia, Pa. Machine for forming grooves. No. 1,343,554; June 15; v. 275; p. 497.
Fiscus, Adam, Alma, Nebr., assignor to P. Fiscus, Kirkman, Iowa. Veterinary forceps. No. 1,332,118; Feb. 24; v. 271; p. 639.
Fiscus, Paaren. (See Fiscus, Adam, assignor.)
Fiset, Antoine, Quebec, Quebec, Canada. Hay-press. No. 1,340,388; May 18; v. 274; p. 459.
Fish, Ambrose D., Portland, Oreg. Metal-separator. No. 1,327,667; Jan. 13; v. 270; p. 208.
Fish, Charles W., Boston, Mass. Drip-receptacle for refrigerators. No. 1,362,686; Dec. 21; v. 281; p. 437.
Fish, Edwards R., Phoenixville, Pa. Superheated steam-boiler. No. 1,350,597; Aug. 24; v. 277; p. 653.
Fish, Frederick K., Jr., assignor to Lumber Tie and Timber Vulcanizing Company, New York, N. Y. Drying lumber. No. 1,328,505; Jan. 20; v. 270; p. 403.
Fish, Frederick K., Jr., assignor to Lumber Tie and Timber Vulcanizing Company, New York, N. Y. Sterilized wood. No. 1,328,506; Jan. 20; v. 270; p. 404.
Fish, Frederick K., Jr., New York, N. Y. Drying lumber. No. 1,328,507; Jan. 20; v. 270; p. 404.
Fish, Frederick K., Jr., New York, N. Y. Drying lumber. No. 1,328,655; Jan. 20; v. 270; p. 431.
Fish, Frederick K., Jr., New York, N. Y. Sapless composite wood. No. 1,328,656; Jan. 20; v. 270; p. 431.
Fish, Frederick K., Jr., New York, N. Y. Treating and drying wood. No. 1,328,657; Jan. 20; v. 270; p. 431.
Fish, Frederick K., Jr., assignor to Lumber Tie & Timber Vulcanizing Company, New York, N. Y. Drying lumber. No. 1,328,658; Jan. 20; v. 270; p. 431.
Fish, Frederick K., Jr., assignor to Lumber Tie and Timber Vulcanizing Company, New York, N. Y. Drying lumber. No. 1,328,659; Jan. 20; v. 270; p. 432.
Fish, Frederick K., Jr., assignor to Lumber Tie and Timber Vulcanizing Company, New York, N. Y. Drying lumber. No. 1,328,660; Jan. 20; v. 270; p. 432.
Fish, Frederick K., Jr., assignor to Lumber Tie & Timber Vulcanizing Company, New York, N. Y. Drying lumber. No. 1,328,661; Jan. 20; v. 270; p. 432.
Fish, Frederick K., Jr., New York, N. Y. Drying lumber. No. 1,328,662; Jan. 20; v. 270; p. 432.

Digitized by Google

Fish, Lewin B., assignor to American Telephone and Telegraph Company, East Orange, N. J. Anchoring device. No. 1,351,845; Sept. 7; v. 278; p. 26.
Fishbaugh, Frank. (See Krieg, J. C., and Fishbaugh.)
Fishbaugh, Fred A., London, Ohio. Belt-stretching mechanism. No. 1,358,433; Nov. 9; v. 280; p. 301.
Fishbaugh, William, Newark, Ohio. Vulcanizer. No. 1,346,085; July 6; v. 276; p. 150.
Fishel, Henry W., New York, N. Y. Jewelry and manufacturing the same. No. 1,361,704; Dec. 7; v. 281; p. 146.
Fishel, Henry W., New York, N. Y. Jewelry and manufacturing the same. No. 1,361,705; Dec. 7; v. 281; p. 146.
Fisher, Alva J., Evanston, assignor to Hurley Machine Company, Chicago, Ill. Ironing-machine. No. 1,327,618; Jan. 13; v. 270; p. 198.
Fisher, Alva J., Evanston, assignor to Hurley Machine Company, Chicago, Ill. Ironing-machine. No. 1,332,892; Mar. 9; v. 272; p. 188.
Fisher, Alva J., Evanston, assignor to Hurley Machine Company, Chicago, Ill. Method of and apparatus for making spline-carrying machine elements. No. 1,333,071; Mar. 9; v. 272; p. 222.
Fisher, Alva J., Evanston, assignor to Hurley Machine Company, Chicago, Ill. Ironing-machine. No. 1,351,031; Aug. 31; v. 277; p. 798.
Fisher, Alva J., Evanston, assignor to Hurley Machine Company, Chicago, Ill. Vacuum-cleaner. No. 1,351,032; Aug. 31; v. 277; p. 798.
Fisher, Andrew S., Altoona, Pa. Marginal protector and guard for desk pads or blotters. No. 1,357,971; Nov. 9; v. 280; p. 208.
Fisher, Arthur W., Wilkinsburg, and C. S. Snavely, Pittsburgh, assignors to The Union Switch & Signal Company, Swissvale, Pa. Electrical coil. No. 1,345,484; July 6; v. 276; p. 31.
Fisher, Benjamin K., St. Louis, Mo. Protractor. No. 1,350,273; Aug. 17; v. 277; p. 542.
Fisher Body Corporation. (See Schmidt, Albert, assignor.)
Fisher, Brewster, Mount Vernon, Ill. Locomotive spark-arrester. No. 1,356,201; Oct. 19; v. 279; p. 438.
Fisher, Carl, Bridgeport, Conn. Combined safety-pin and clasp. No. 1,340,533; May 18; v. 274; p. 486.
Fisher, Carl G., *et al.* (See Angus, Donald J., assignor.)
Fisher, Carl G., *et al.* (See Kramer, Benjamin G., assignor.)
Fisher, Carl G., assignor to The Prest-O-Lite Company, Indianapolis, Ind. Highway danger-signal. No. 1,360,203; Nov. 23; v. 280; p. 738.
Fisher, Charles E., Baltimore, Md. Brush-making machine. No. 1,356,915; Oct. 26; v. 279; p. 624.
Fisher, Charley W., Coffeyville, Kans. Oil-lift. No. 1,358,628; Nov. 9; v. 280; p. 339.
Fisher, Daniel C., Boston, Mass. Stopcock. No. 1,332,492; Mar. 2; v. 272; p. 61.
Fisher, Daniel C., Boston, Mass. Apparatus for producing irregular surfaces by attrition. No. 1,335,102; Mar. 30; v. 272; p. 772.
Fisher, Edward G., Washington, D. C., and R. J. H. Moesta, Baltimore, Md. Layer-cake depositor and spreader. No. 1,358,716; Nov. 16; v. 280; p. 402.
Fisher, Edwin J., New York, N. Y. Match-lighter. No. 1,339,185; May 4; v. 274; p. 99.
Fisher, Elmer E., Kokomo, Ind. Folding chair. No. 1,349,271; Aug. 10; v. 277; p. 274.
Fisher, Elmer F., Brookfield, Mass. Self-adjusting valve-lifter. No. 1,353,993; Sept. 28; v. 278; p. 586.
Fisher, Ernest E., Essington, Pa. Stuffing-box. No. 1,354,544; Oct. 5; v. 279; p. 20.
Fisher, Eugene C., Chicago, Ill. Illuminating device. No. 1,360,387; Nov. 30; v. 280; p. 842.
Fisher, Frank E., Detroit, Mich. Starter for internal-combustion engines. No. 1,346,598; July 13; v. 276; p. 312.
Fisher, Frederick R., Baltimore, Md. Automobile. No. 1,331,492; Feb. 24; v. 271; p. 522.
Fisher, Frederick-George, Boston, Mass., assignor to National Folding Box Company, New Haven, Conn. Display-carton. No. 1,362,565; Dec. 14; v. 281; p. 861.
Fisher, George E., Honolulu, Hawaii. Pineapple-meat eradicator. No. 1,350,096; Aug. 17; v. 277; p. 507.
Fisher, George F., Roselle, N. J., assignor to The Hartford Rubber Works Company. Electric centering device for tire fabrics. No. 1,332,979; Mar. 9; v. 272; p. 205.
Fisher, George F., Plainfield, N. J., assignor to Revere Rubber Company. Tire. No. 1,349,124; Aug. 10; v. 277; p. 245.
Fisher, Henry F., Los Angeles, Calif. Bow-guide. No. 1,353,036; Sept. 14; v. 278; p. 293.
Fisher, J. Arthur. (See Fitzgerald, Robert J., assignor.)
Fisher, John A., assignor to Imperial Player Roll Company, Chicago, Ill. Note-sheet for automatic musical instruments. No. 1,359,682; Nov. 23; v. 280; p. 635.
Fisher, Joseph, Winnipeg, Manitoba, Canada. Dental meter. No. 1,361,376; Dec. 7; v. 281; p. 79.
Fisher, Joseph, assignor of one-half to J. Z. Bechtold, Girard, Ill. Milk-bottle cap. No. 1,331,336; Feb. 17; v. 271; p. 472.
Fisher, Joseph E., Denver, Colo. Door-lock. No. 1,330,693; Feb. 10; v. 271; p. 283.
Fisher, Joseph O., Washington, D. C. Apparatus for injecting fuel into combustion-chambers. No. 1,333,612; Mar. 16; v. 272; p. 384.
Fisher, Joseph O., U. S. Navy. Apparatus for muffling sounds. No. 1,341,976; June 1; v. 275; p. 71.
Fisher, Leslie D., Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y. Ordnance. No. 1,359,045; Nov. 16; v. 280; p. 466.
Fisher, Louis M., Clarksdale, Mo. Automatic automobile-jack. No. 1,345,842; July 6; v. 276; p. 101.
Fisher, Michael F., Albany, N. Y. Safety attachment. No. 1,332,328; Mar. 2; v. 272; p. 29.
Fisher, Milan H. (See Herlihy, D., and Fisher.)
Fisher, Olive, Tipton, assignor of one-half to J. A. Mayne, Kokomo, Ind. Revolving chair. No. 1,337,059; Apr. 13; v. 273; p. 318.
Fisher, Raymond, Philadelphia, Pa., assignor, by mesne assignments, to Hemphill Manufacturing Company, Pawtucket, R. I. Yarn-severing device for knitting-machines. No. 1,356,060; Oct. 19; v. 279; p. 409.
Fisher, Raymond B., Harvey, Ill., assignor to Buda Company. Bumping-post. No. 1,333,709; Mar. 16; v. 272; p. 403.
Fisher, Robert E., Chicago, Ill. Adjustable curtain-rod bracket. No. 1,341,742; June 1; v. 275; p. 26.
Fisher, Robert E., and W. M. York, Long Beach, Calif.; said Fisher assignor to said York. Pay-envelop. No. 1,346,372; July 13; v. 276; p. 268.
Fisher, Samuel L., Butler, Pa. Collapsible furniture. No. 1,331,145; Feb. 17; v. 271; p. 487.
Fisher, Seymour H. (See Schramm, Adolph F., assignor.)
Fisher, Stanley L. (See Moore, E. D., and Fisher.)
Fisher, Stanley L., Chester, assignor to The Pratt Read Player Action Company, Deep River, Conn. Player-piano. No. 1,329,702; Feb. 3; v. 271; p. 66.
Fisher, Van E., Detroit, Mich. Wind-shield hinge. No. 1,331,252; Feb. 17; v. 271; p. 457.
Fisher, William W. (See Pentecost, A., and Fisher.)
Fishman, Sam, Nashville, Tenn. Safety button-fastener. No. 1,362,786; Dec. 21; v. 281; p. 457.
Fisk, Alfred A., assignor of one-half to A. B. Davis, Pomona, Calif. Door-latch and burglar-alarm. No. 1,353,388; Sept. 21; v. 278; p. 421.
Fisk, Annie L., *et al.* (See Holmes, Anderson M., assignor.)
Fisk, Charles A., Abbotsford, Quebec, Canada. Controlling means for gramophones. No. 1,354,961; Oct. 5; v. 279; p. 102.
Fisk, Frederick C., Williamsville, N. Y. Manufacturing spark-plugs. No. 1,333,400; Mar. 9; v. 272; p. 283.
Fisk, Frederick C., Williamsville, N. Y. Manufacture of spark-plugs. No. 1,333,401; Mar. 9; v. 272; p. 283.
Fisk, Gustaf L., Harrisburg, Pa. Rail-fastener. No. 1,358,535; Nov. 9; v. 280; p. 321.
Fisk, Gustaf L., Harrisburg, Pa. Railway-tie. No. 1,358,536; Nov. 9; v. 280; p. 321.
Fisk, James, Stratford, Calif. Beehive for raising queen bees. No. 1,341,364; May 25; v. 274; p. 717.
Fisk, Leo, Bloomfield, Nebr. Feeder for corn-shellers. No. 1,329,703; Feb. 3; v. 271; p. 66.
Fisk Rubber Company, The. (See Bogardus, William H., assignor.)
Fiske Rubber Company, The. (See Bowerman, Joseph A., assignor.)
Fiske Rubber Company, The. (See Jameson, William, assignor.)
Fisk Rubber Company, The. (See Little, Thomas P., assignor.)
Fisk Rubber Company, The. (See Marquette, Melvon A., assignor.)
Fisk Rubber Company, The. (See Midgley, Thomas, assignor.)
Fisk Rubber Company, The. (See Midgley, Thomas, Sr., and T., Jr., assignors.)
Fisk Rubber Company, The. (See Naylor, Ralph B., assignor.)
Fisk Rubber Company, The. (See Pierson, Louis, B., assignor.)
Fiske, Bradley A., New York, assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Method of and means for target practice. No. 1,363,861; Dec. 28; v. 281; p. 705.
Fiske & Company. (See Cooper, Richard B., assignor.)
Fiske, Jonathan P. B., Newton, Mass. Handling clay products. No. 1,352,947; Sept. 14; v. 278; p. 276.
Fiske, Jonathan P. B., Newton, Mass. Electrical clamp. No. 1,352,948; Sept. 14; v. 278; p. 276.
Fisker, Peder A., Copenhagen, Denmark. Motorcycle. No. 1,331,747; Feb. 24; v. 271; p. 570.
Fisker, Peder A., Frederiksberg, near Copenhagen, Denmark. Universal coupling. No. 1,331,748; Feb. 24; v. 271; p. 570.
Fitch, Benjamin F. Evanston, Ill., assignor to Motor Terminals Company, Wilmington, Del. Running-gear for traveling cranes. No. 1,347,625; July 27; v. 276; p. 631.
Fitch, Benjamin F., Evanston, Ill., assignor to Motor Terminals Company, Wilmington, Del. Trolley. No. 1,350,648; Aug. 24; v. 277; p. 662.
Fitch, Charles L., New York, N. Y. Hair-curler. No. 1,338,687; May 4; v. 274; p. 7.

Digitized by Google

Fitch, Charles M., assignor, by mesne assignments, to Bird Adding Machine Company, Chicago, Ill. Adding-machine. No. 1,349,194; Aug. 10; v. 277; p. 259.
Fitch, Frank M., East Hartford, Conn. Safety device for operating dampers. No. 1,355,135; Oct. 12; v. 279; p. 188.
Fite, Cephas V., and C. C. Coddington, Charlotte, N. C. Internal-combustion engine. No. 1,339,187; May 4; v. 274; p. 99.
Fitt, Thomas C., Streatham, London, England. Bridge of violins or similar musical instruments. No. 1,356,439; Oct. 19; v. 279; p. 484.
Fitts, Edwin, assignor to Detroit Stoker Company, Detroit, Mich. Furnace. No. 1,329,891; Feb. 3; v. 271; p. 102.
Fitts, J. L., Merchantville, and W. F. Bilyeu, Riverton, assignors to Warren Webster & Company, Camden, N. J. Vent for gravity-flow meter and heater apparatus. No. 1,356,135; Oct. 19; v. 279; p. 425.
Fitts, James L., Pensauken township, Camden county, N. J., assignor to Warren Webster & Company. Thermostatic control device. No. 1,347,689; July 27; v. 276; p. 644.
Fitzberger, Thomas F., Baltimore, Md. Ash-sifter. No. 1,351,377; Aug. 31; v. 277; p. 667.
Fitz, Charles L., assignor to Visible Spark Plug Co., Chicago, Ill. Spark-plug for internal-combustion engines. No. 1,356,349; Oct. 19; v. 279; p. 467.
Fitz-Empire Double Pivot-Last Company. (See Boynton, Stanley E., assignor.)
Fitz-Empire Double Pivot Last Company. (See Brindle, Edwin J., assignor.)
Fitz-Empire Double Pivot Last Co. (See Buck, Frank S., assignor.)
Fitz-Empire Double Pivot-Last Company. (See Potter, Frederic W., assignor.)
Fitz Empire Double Pivot-Last Company. (See Prindle, Edwin J., assignor.)
Fitz-Empire Double Pivot Last Company. (See Schelter, John C., assignor.)
Fitz-Empire Double Pivot Last Company. (See Whipple, Leland B., assignor.)
Fitzgerald, Frank E., Watertown, N. Y. Trousers-support. No. 1,345,917; July 6; v. 276; p. 116.
Fitzgerald, Harry R., and H. H. Walton, Memphis, Tenn. Locomotive-headlight control. No. 1,333,205; Mar. 9; v. 272; p. 247.
Fitzgerald, John J., Los Angeles, Calif. Gage device. No. 1,347,022; July 20; v. 276; p. 455.
Fitzgerald, John M. (See Mock, J. M., and Williston, assignors.)
Fitzgerald, John W., Detroit, Mich. Spring-seat construction. No. 1,330,938; Feb. 17; v. 271; p. 399.
Fitzgerald, John W., Detroit, Mich. Battery-cover. No. 1,357,283; Nov. 2; v. 280; p. 16.
Fitzgerald, John W., assignor of one-half to E. Keating, Kansas City, Mo. Shock-absorber. No. 1,333,592; Mar. 9; v. 272; p. 320.
Fitzgerald, John W., assignor to L. A. Young Industries, Inc., Detroit, Mich. Cushion-spring. No. 1,333,801;
Fitzgerald, John W., assignor to F. B. Electric & Manufacturing Company, Detroit, Mich. Coupling-plate for storage batteries. No. 1,359,585; Nov. 23; v. 280; p. 616.
Mar. 16; v. 272; p. 420.
Fitzgerald Manufacturing Company, The. (See Fitzgerald, Patrick J., assignor.)
Fitzgerald, Maurice F., Winsted, assignor to The Fitzgerald Mfg. Co., Torrington, Conn. Automobile-horn. No. 1,353,575; Sept. 21; v. 278; p. 460.
Fitzgerald, Maurice F., Winsted, assignor to The Fitzgerald Mfg. Co., Torrington, Conn. Automobile-horn. No. 1,355,550; Oct. 12; v. 279; p. 270.
Fitzgerald Mfg. Co., The. (See Fitzgerald, Maurice F., assignor.)
Fitzgerald Mfg. Co., The. (See Fitzgerald, Patrick J., assignor.)
Fitzgerald, Patrick J., assignor to The Fitzgerald Manufacturing Company, Torrington, Conn. Massage-vibrator. No. 1,327,466; Jan. 6; v. 270; p. 109.
Fitzgerald, Patrick J., assignor to The Fitzgerald Mfg. Company, Torrington, Conn. Gasket. No. 1,338,617; Apr. 27; v. 273; p. 755.
Fitzgerald, Patrick J., assignor to The Fitzgerald Mfg. Co., Inc., Torrington, Conn. Electrically-vibrated toothbrush. No. 1,342,280; June 1; v. 275; p. 131.
Fitzgerald, Patrick J., assignor to The Fitzgerald Mfg. Company, Torrington, Conn. Bath-spray. No. 1,342,994; June 8; v. 274; p. 324.
Fitzgerald, Ray H., *et al.* (See Blain, Joseph E., assignor.)
Fitz Gerald, Ray H., Pittsburgh, Pa. Dispensing and displaying carton. No. 1,341,893; June 1; v. 275; p. 55.
Fitzgerald, Robert J., assignor of one-half to J. A. Fisher, New York, N. Y. Condenser. No. 1,337,549; Apr. 20; v. 273; p. 484.
Fitzgerald, William, Long Beach, Calif. Rivet-holder and bucker-up. No. 1,332,620; Mar. 2; v. 272; p. 85.
Fitzgerald, William S., Chicago, Ill., assignor to International Harvester Company. Sand-cutter. No. 1,330,070; Feb. 10; v. 271; p. 167.
Fitz-Gibbon, John J., Holyoke, Mass. Toothbrush. No. 1,346,536; July 13; v. 276; p. 300.
Fitzpatrick, Charles H., New York, N. Y. Projectile-throwing mechanism. No. 1,356,858; Oct. 26; v. 279; p. 613.
Fitzpatrick, David, assignor to The Cleveland Worm & Gear Company, Cleveland, Ohio. Worm-grinding machine. No. 1,340,030; May 11; v. 274; p. 334.
Fitzpatrick, David, assignor to The Cleveland Worm and Gear Company, Cleveland, Ohio. Thread-grinder. No. 1,340,031; May 11; v. 274; p. 334.
Fitzpatrick, David, assignor to The Cleveland Worm & Gear Company, Cleveland, Ohio. Gear-wheel. No. 1,358,189; Nov. 9; v. 280; p. 251.
Fitzpatrick, David, assignor to The Cleveland Worm and Gear Company, Cleveland, Ohio. Casting worm-gear wheels. No. 1,358,190; Nov. 9; v. 280; p. 251.
Fitzpatrick, David, assignor to The Cleveland Worm and Gear Company, Cleveland, Ohio. Worm gear. No. 1,358,191; Nov. 9; v. 280; p. 251.
Fitzpatrick, Frank E., Fond du Lac, Wis. Tie-plate. No. 1,338,431; Apr. 27; v. 273; p. 720.
Fitzpatrick, Henry J., Athens, Ga. Hose-coupling. No. 1,363,963; Dec. 28; v. 281; p. 724.
Fitzpatrick, James R., Grand Rapids, Mich., assignor to Haskelite Manufacturing Corporation. Frost-casing. No. 1,340,332; May 18; v. 274; p. 448.
Fitzpatrick, William T., Waterloo, Iowa. Retarded-delivery device for fountain-pens. No. 1,347,901; July 27; v. 276; p. 686.
Fitzsimmons, James, Baldwin, N. Y. End-mill. No. 1,354,097; Sept. 28; v. 278; p. 608.
Fitz Simons, William E., Freeport, N. Y. Meter. No. 1,354,816; Oct. 5; v. 279; p. 74.
Fix, Albert P., Detroit, Mich. Combination end-gate and step for trailers. No. 1,340,761; May 18; v. 274; p. 529.
Fjarli, John O., Berwick, N. D. Fly-exit for window or door screens. No. 1,334,148; Mar. 16; v. 272; p. 486.
Fjellanger, Mikal, Hvalstad, near Christiania, assignor to Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Christiania, Norway. Fertilizer and manufacture of same. No. 1,340,708; May 18; v. 274; p. 520.
Fjellman, Bengt W. (See Wingquist, S. G., and Fjellman.)
Flack, Augustus S., Los Angeles, Calif. Airplane-brake. No. 1,329,890; Feb. 3; v. 271; p. 9.
Flagg, Earl W., Tenino, Wash. Permutation hasp-lock. No. 1,335,959; Apr. 6; v. 273; p. 48.
Flagg, Roland C., East Acton, Mass. Bag holder and weigher. No. 1,359,586; Nov. 23; v. 280; p. 616.
Flagge, Philipp F., Milwaukee, assignor to Milwaukee Corrugating Company, Greenfield, Wis. Inside corner-bead. No. 1,361,843; Dec. 14; v. 281; p. 219.
Flagstad, Cornell, assignor of forty-five per cent. to H. Thorsgard and K. Thorsgard and ten per cent. to A. Markoe, Minneapolis, Minn. Draft-creating device. No. 1,340,865; May 18; v. 274; p. 549.
Flaherty, Edmund M., Parlin, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Solvent for use with pyroxylin and compositions containing same. No. 1,341,710; June 1; v. 275; p. 19.
Flaherty, Edmund M., Parlin, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Making photographic films. No. 1,350,274; Aug. 17; v. 277; p. 542.
Flaherty, Edmund M., Parlin, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Solvent of pyroxylin and compositions containing same. No. 1,356,440; Oct. 19; v. 279; p. 484.
Flaherty, John J., St. Paul, Minn. Ironing-board. No. 1,331,685; Feb. 24; v. 271; p. 549.
Flaiz, Ed, Olathe, Colo. Tractor. No. 1,346,644; July 13; v. 276; p. 322.
Flajollet, Jean, Lyon, France. Tobacco-smoking device. No. 1,344,874; June 29; v. 275; p. 886.
Flamand, Poul, assignor to P. Evans, Philadelphia, Pa. Housing for universal joints. No. 1,361,573; Dec. 7; v. 281; p. 120.
Flammang, John, assignor to O. G. Stark, St. Louis, Mo. Making pistons. No. 1,336,689; Apr. 13; v. 273; p. 246.
Flammang, John, assignor to O. G. Stark, St. Louis, Mo. Piston. No. 1,336,690; Apr. 13; v. 273; p. 247.
Flammang, John, assignor to O. G. Stark, St. Louis, Mo. Piston. No. 1,336,691; Apr. 13; v. 273; p. 247.
Flammang, John, assignor to O. G. Stark, St. Louis, Mo. Making pistons. No. 1,344,875; June 29; v. 275; p. 886.
Flammang, John, assignor to O. G. Stark, St. Louis, Mo. Making pistons. No. 1,347,449; July 20; v. 276; p. 539.
Flammang, John, assignor to O. G. Stark, St. Louis, Mo. Making pistons. No. 1,347,450; July 20; v. 276; p. 539.
Flammang, John, assignor to O. G. Stark, St. Louis, Mo. Piston. No. 1,348,988; Aug. 10; v. 277; p. 218.
Flammang, John, assignor to O. G. Stark, St. Louis, Mo. Piston. No. 1,351,238; Aug. 31; v. 277; p. 838.
Flammang, John, assignor to O. G. Stark, St. Louis, Mo. Piston. No. 1,351,239; Aug. 31; v. 277; p. 838.
Flammang, John, University City, assignor to O. G. Stark, St. Louis, Mo. Piston. No. 1,363,725; Dec. 28; v. 281; p. 678.

Digitized by Google

Flanagan, Edward, Philadelphia, Pa. Ventilating system. No. 1,361,147; Dec. 7; v. 281; p. 33.
Flanagan, James A., Toronto, Ontario, Canada. Motor-support for sewing-machines. No. 1,335,103; Mar. 30; v. 272; p. 772.
Flanagan, James U., assignor of three-fourths to F. F. Slocomb & Co., Incorporated, Wilmington, Del. Apparatus for treating skins, fabric, tobacco, and the like. No. 1,327,668; Jan. 13; v. 270; p. 209.
Flanagan, James U., assignor to F. F. Slocomb & Co., Incorporated, Wilmington, Del. Machine for seasoning or finishing leather. No. 1,352,186; Sept. 7; v. 278; p. 90.
Flanagan, John, Davenport, Iowa. Lifting-jack. No. 1,329,116; Jan. 27; v. 270; p. 547.
Flanders, George L., Warner, N. H. Automobile Running-board attachment. No. 1,330,694; Feb. 10; v. 271; p. 283.
Flanders, Henry H., Newton, Mass. Gage. No. 1,331,190; Feb. 17; v. 271; p. 445.
Flanders, Warren B., Habana, Cuba, assignor to Westinghouse Electric & Manufacturing Co. System for conserving motive fluid. No. 1,332,189; Feb. 24; v. 271; p. 652.
Flanigan, Howard T., Buffalo, N. Y. Projection apparatus. No. 1,329,892; Feb. 3; v. 271; p. 103.
Flanigan, Robert, Baltimore, Md. Closure for cans, bottles, jars, &c. No. 1,360,911; Nov. 30; v. 280; p. 945.
Flannery Bolt Company. (See Dodds, Ethan I., assignor.)
Flannery Bolt Company. (See Flannery, J. R., and Dodds, assignors.)
Flannery Bolt Company. (See Flannery, John R., assignor.)
Flannery Bolt Company. (See Flannery, John R., and Dodds, assignors.)
Flannery Bolt Company. (See Landgraf, Frederick K., assignor.)
Flannery Bolt Company. (See Mennie, Robert S., assignor.) (Reissue.)
Flannery Bolt Company. (See Stafford, B. E. D., and Dodds, assignors.)
Flannery, John L., Jr., assignor to The Boye Needle Company, Chicago, Ill. Commodity-cabinet. No. 1,361,451; Dec. 7; v. 281; p. 95.
Flannery, John R., assignor to Flannery Bolt Company, Pittsburgh, Pa. Manufacture of staybolts for boilers. No. 1,336,213; Apr. 6; v. 278; p. 96.
Flannery, John R., assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,354,611; Oct. 5; v. 279; p. 33.
Flannery, John R., assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure for steam-boilers. No. 1,359,587; Nov. 23; v. 280; p. 616.
Flannery, John R., assignor to Flannery Bolt Company, Pittsburgh, Pa. Installation of staybolt structures for boilers. No. 1,359,588; Nov. 23; v. 280; p. 617.
Flannery, John R., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Staybolt. No. 1,342,162; June 1; v. 275; p. 108.
Flannery, John R., and E. I. Dobbs, assignors to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,346,645; July 13; v. 276; p. 322.
Flannery, John R., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,347,539; July 27; v. 276; p. 614.
Flannery, John R., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure for boilers. No. 1,354,609; Oct. 5; v. 279; p. 33.
Flannery, John R., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,354,610; Oct. 5; v. 279; p. 33.
Flannery, John R., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,354,612; Oct. 5; v. 279; p. 33.
Flatau, Louis S., St. Louis, assignor of one-third to L. A. Hedges, Webster Grove, and one-third to L. A. Benecke, St. Louis, Mo. Spark-plug. No. 1,352,592; Sept. 14; v. 278; p. 205.
Flatman, Ernest C., Detroit, Mich. Toy. No. 1,353,900; Sept. 28; v. 278; p. 567.
Flatman, Ernest C., Detroit, Mich. Trundling toy. No. 1,355,459; Oct. 12; v. 279; p. 252.
Flatow, Henry W. (See Ziemann, Gustav E., assignor.)
Flattum, Albert L., Syracuse, N. Y. Aerial propeller. No. 1,344,496; June 22; v. 275; p. 748.
Flaxbaum, Samuel, New York, N. Y. Pocket-mirror. No. 1,327,865; Jan. 13; v. 270; p. 245.
Flechter, L. V., & Company. (See Kline, James A., assignor.)
Fleck, Anthony G. (See Weaver, C. R., and Fleck.)
Fleck, August H., Oklahoma, Okla. Surgical device. No. 1,334,237; Mar. 16; v. 272; p. 501.
Fleck, Herman, Golden, Colo., assignor to The Peroxide Specialty Company, St. Louis, Mo. Oxidizing barium monoxid to dioxid. No. 1,349,417; Aug. 10; v. 277; p. 303.
Fleckl, Hans, Boyds, and W. J. Boyd, Chewelah, Wash. Sleigh-runner attachment for baby-carriages and other vehicles. No. 1,343,046; June 8; v. 275; p. 334.
Fleckner, Luther M., San Francisco, Calif. Tree-shaker. No. 1,337,398; Apr. 20; v. 278; p. 456.
Fleenor, Joseph B., Seattle, Wash. Wrench. No. 1,361,237; Dec. 7; v. 281; p. 51.
Flegal, Forrest G., assignor to The Savage Tire Company, San Diego, Calif. Means for treating vehicle-tires during vulcanizing. No. 1,340,440; May 18; v. 274; p. 469.
Flegel, Harrison D., Racine, Wis. Pen attachment for pencils. No. 1,345,155; June 29; v. 275; p. 939.
Flegel, Harrison D., assignor to Hamilton-Beach Mfg. Co., Racine, Wis. Foot-controlled electric governor. No. 1,345,080; June 29; v. 275; p. 924.
Fleischer, Paul W., New York, N. Y., assignor to American Can Company. Can-closing machine. No. 1,330,071; Feb. 10; v. 271; p. 167.
Fleischer, Paul W., assignor to American Can Company, New York, N. Y. Can-closing machine. No. 1,363,767; Dec. 28; v. 281; p. 686.
Fleischmann Company, The. (See Corby, Robert L., assignor.)
Fleischmann, John, Minneapolis, Minn. Hot-water heater. No. 1,351,599; Sept. 7; v. 278; p. 37.
Fleisher, Horace T., Elkins Park, assignor to Notaseme Hosiery Company, Philadelphia, Pa. Doll. No. 1,358,069; Nov. 9; v. 280; p. 228.
Fleisher, Max, New York, N. Y. Lock. No. 1,359,347; Nov. 16; v. 280; p. 524.
Fleisher, W. L., & Co., Inc. (See Lissauer, Adolph W., assignor.)
Fleisher, Walter L. (See Lissauer, A. W., Fleisher, and Keyes.)
Fleming, Charles F., San Jose, Calif. Packing dried prunes. No. 1,356,614; Oct. 26; v. 279; p. 565.
Fleming, Charles R., assignor of one-third to O. J. Doss, Hoberg, Mo. Piano-violin. No. 1,344,497; June 22; v. 275; p. 748.
Fleming, David H., Boston, Mass. Formation-tank. No. 1,348,000; July 27; v. 276; p. 706.
Fleming, Frank A. (See Chase, S. M., and Fleming.)
Fleming, Frank E. (See Blackburn and Fleming.)
Fleming, Glen W., Cleveland, Ohio. Valve-spring support for valve-grinding. No. 1,360,515; Nov. 30; v. 280; p. 868.
Fleming, Harry P., Santa Clara county, Calif. Blending-machine. No. 1,349,505; Aug. 10; v. 277; p. 320.
Fleming, Isaac, and H. S. Hill, assignors, by mesne assignments, to J. J. Mathe, Los Angeles, Calif. Machine for cutting vents in automobile-hoods. No. 1,353,524; Sept. 21; v. 278; p. 449.
Fleming, James C., Denver, Colo. Key system for clarinets. No. 1,328,831; Jan. 27; v. 270; p. 492.
Fleming, James J. and T. F., Newark, N. J. Water-gage-glass device. No. 1,335,570; Mar. 30; v. 272; p. 859.
Fleming, James R., *et al.* (See Miller, Lorin O., assignor.)
Fleming, James R., Scranton, Pa. Axle reconstruction. No. 1,340,032; May 11; v. 274; p. 335.
Fleming, John A., New York, N. Y. Aircraft having inherent stability. No. 1,344,909; June 29; v. 275; p. 909.
Fleming, John J., Cambridge, Mass. Cigarette-package. No. 1,329,757; Feb. 3; v. 271; p. 77.
Fleming, Joseph J., assignor of one-half to R. Alberg, Boone, Iowa. Corn-knife. No. 1,355,828; Oct. 19; v. 279; p. 364.
Fleming, Lyman L. (See Moore, W. H., and Fleming.)
Fleming, Paul E., Chicago, Ill. Attachment for telephone and like brackets. No. 1,354,477; Oct. 5; v. 279; p. 6.
Fleming, Raphael S., assignor to Merrell-Soule Company, Syracuse N. Y. Manufacturing food products. No. 1,361,238; Dec. 7; v. 281; p. 51.
Fleming, Raphael S., assignor to Merrell-Soule Company, Syracuse, N. Y. Food product and manufacturing same. No. 1,361,239; Dec. 7; v. 281; p. 51.
Fleming, Thomas F. (See Fleming, James J., and T. F.)
Fleming, William. (See Horton, Samuel C., assignor.)
Fleming, William R., Newport, Ky. Laboratory apparatus. No. 1,354,736; Oct. 5; v. 279; p. 57.
Fleming, Wills M., Holyoke, Mass., assignor, by mesne assignments, to Worthington Pump and Machinery Corporation, New York, N. Y. Valve. No. 1,328,274; Jan. 20; v. 270; p. 359.
Flemming, Edward L., Easton, Pa. Adjustable shade-roller. No. 1,341,051; May 25; v. 274; p. 656.
Fletcher, Alexander. (See Alles, F. W., Fletcher, and Hitchens.)
Fletcher, Charles F., Farmington, W. Va. Wrench. No. 1,332,548; Mar. 2; v. 272; p. 72.
Fletcher, Elmer, assignor to Fletcher Works Co., Chicago, Ill. Sound-box. No. 1,331,864; Feb. 24; v. 271; p. 593.
Fletcher, George, & Company. (See Miller, James, assignor.)
Fletcher, Harold W., Houston, Tex. Load-indicator. No. 1,333,802; Mar. 16; v. 272; p. 420.
Fletcher, Harold W., Houston, Tex. Well-packer. No. 1,336,738; Apr. 13; v. 273; p. 256.
Fletcher, Harold W., Houston, Tex. Pipe-tongs. No. 1,337,509; Apr. 20; v. 273; p. 476.
Fletcher, Henry J., Brainerd, Minn. Hammer-saw or line-hammer. No. 1,347,365; July 20; v. 276; p. 523.
Fletcher, Henry P. (See Kellerman, Henry Ralph, assignor.)
Fletcher, Joseph C., assignor to Armstrong Bros. Tool Co., Chicago, Ill. Tool-holder. No. 1,343,257; June 15; v. 275; p. 439.

Digitized by Google

Fletcher, Thomas M., London, England. Lock. No. 1,330,856; Feb. 17; v. 271; p. 382.
Fletcher, Warren L., Reading, Mass. Eschallot. No. 1,363,580; Dec. 28; v. 281; p. 650.
Fletcher, William D. (See Sheppard, J. F., 2d, and Fletcher.)
Fletcher Works. (See Schaum, Otto W., assignor.)
Fletcher Works Co. (See Fletcher, Elmer, assignor.)
Flexible Metal Hose Company, The. (See Forth, Charles, assignor.)
Flexo Motive Corporation. (See Hupp, Irvin, assignor.)
Flickinger, Herschel V., Bucyrus, Ohio. Egg tray and turning mechanism. No. 1,332,893; Mar. 9; v. 272; p. 188.
Flickinger, Herschel V., Bucyrus, Ohio. Egg-turning tray for incubators. No. 1,361,038; Dec. 7; v. 281; p. 11.
Flie, Michael F., Mohawk, Ontario, Canada. Combined cradle and bed. No. 1,347,451; July 20; v. 276; p. 540.
Flinchbaugh, Clarence E., Lima, Ohio. Motor-truck frame. No. 1,346,744; July 13; v. 276; p. 341.
Flinchbaugh, Clarence E., Lima, Ohio. Stake-holder. No. 1,361,706; Dec. 7; v. 281; p. 146.
Flindell, Edwin F. (See Darby, John, assignor.)
Flink, Allen R., assignor to Flink, Smith & Company (Inc), La Salle, Ill. Seal for silos. No. 1,358,629; Nov. 9; v. 280; p. 339.
Flink, Smith & Company. (See Flink, Allen R., assignor.)
Flinn, John R., Johnstown, Pa. Garbage-can. No. 1,351,747; Sept. 7; v. 278; p. 6.
Flinn, Richard P., Brooklyn, N. Y. Shim. No. 1,361,319; Dec. 7; v. 281; p. 67.
Flint, Charles F. V., assignor to the firm of Dansk Staalbeholder Fabrik Akts, Copenhagen, Denmark. Machine for making horseshoes. No. 1,349,506; Aug. 10; v. 277; p. 320.
Flint, Frederick P., Ponders End, England. Two-stroke internal-combustion engine. No. 1,342,105; June 1; v. 275; p. 97.
Flint, John, Newport News, Va. Stove. No. 1,342,163; June 1; v. 275; p. 108.
Flint, Lewis R., Galesburg, Mich. Convertible chair. No. 1,358,142; Nov. 9; v. 280; p. 242.
Flint & Walling Manufacturing Company. (See Macomber, Herbert H., assignor.)
Flint, William H., Birmingham, Ala. Pipe-joint. No. 1,334,530; Mar. 23; v. 272; p. 603.
Flintham, George H., and P. J. Gilstrap, Topeka, Kans.; said Flintham assignor to M. C. Flintham. Mixer. No. 1,330,695; Feb. 10; v. 271; p. 284.
Flintham, Mary C. (See Flintham and Gilstrap, assignors.)
Flintkote Company, The. (See Clapp, Albert L., assignor.)
Flintkote Company, The. (See Overbury, Frederick C., assignor.)
Flintkote Company, The. (See Rahr, Chester E., assignor.)
Flintkote Manufacturing Company. (See Overbury, Frederick C., assignor.)
Flippo, John P., Covington, Va. Toy. No. 1,335,571; Mar. 30; v. 272; p. 859.
Flisek, John, Steubenville, Ohio. Boat drive and control. No. 1,360,105; Nov. 23; v. 280; p. 719.
Flohr, Otto E., Tolna, N. D. Lifting-jack. No. 1,349,195; Aug. 10; v. 277; p. 259.
Florandin, C. H. (See Bennett, Alan M., assignor.)
Floresco, Silvio, Berne, Switzerland. Means and method of treating stringed instruments to improve quality of tone. No. 1,352,442; Sept. 14; v. 278; p. 175.
Florman, Irving, New York, N. Y. Luminous attachment for indicating devices. No. 1,334,604; Mar. 23; v. 272; p. 617.
Flormann, Louis F. (See Eisenhauer, E. W., Flormann, and Waltmann.)
Florsheim, Leonard S., Chicago, Ill. Garter. No. 1,363,241; Dec. 28; v. 281; p. 585.
Flory, Curtis R. (See Erwin, O. R., and Flory.)
Flory, Curtis R., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Hydraulic installation. No. 1,358,070; Nov. 9; v. 280; p. 228.
Flory, Jesse D., Camden, Ohio. Tractor. (Reissue.) No. 14,801; Feb. 3; v. 271; p. 132.
Flory, Jesse D., Camden, Ohio. Hitch for two-wheel tractors. No. 1,350,062; Aug. 24; v. 277; p. 721.
Flournoy, Richard W., Jr., Bethesda, Md. Paper-holding clip. No. 1,359,243; Nov. 16; v. 280; p. 503.
Flower, John W., Wimborne, England. Power-hammer. No. 1,330,857; Feb. 17; v. 271; p. 382.
Flowers, Alan E., Columbus, Ohio. System of water distillation. No. 1,346,537; July 13; v. 276; p. 301.
Flowers, Albert J. (See White, Arthur H., assignor.)
Flowers, George H. and J. B., Albany, N. Y. Swimming-collar. No. 1,334,938; Mar. 23; v. 272; p. 682.
Flowers, John R. (See Flowers, George H. and J. B.)
Floyd, Charles W., Walnut Cove, N. C., assignor of one-fourth to L. A. Clark, Roanoke, Va. Collapsible hogshead or barrel. No. 1,339,749; May 11; v. 274; p. 281.
Floyd, George G., Riverside, Ill. Razor-blade sharpener. No. 1,334,295; Mar. 23; v. 272; p. 559.
Floyd, Green R., Benson, Ala. Toy. No. 1,357,159; Oct. 26; v. 279; p. 672.
Fluke, Floyd L., *et al.* (See Johnson, Albert S., assignor.)
Flum, Edward L., Highland Park, Mich., and J. A. Maschino, Seymour, Ind. Automobile-jack. No. 1,337,125; Apr. 13; v. 273; p. 329.
Flurscheim, Bernhard J., assignor to Aetna Explosives Company, Inc., New York, N. Y. Stabilising nitrostarch. No. 1,343,317; June 15; v. 275; p. 450.
Flury, Georges, Bienne, Switzerland. Belt-fastener. No. 1,328,426; Jan. 20; v. 270; p. 388.
Fly Escape Screen Company. (Reissue.) (See Mittelstaedt, George W., assignor.)
Flynn, Charles F., and A. Aragona, Kokomo, Ind. Manually-propelled vehicle. No. 1,359,348; Nov. 16; v. 280; p. 524.
Flynn, Dennis J., New Brunswick, N. J. Wall construction. No. 1,329,893; Feb. 3; v. 271; p. 108.
Flynn, Dennis J., New Brunswick, N. J. Reinforced-concrete floor construction. No. 1,338,567; Apr. 27; v. 273; p. 746.
Flynn, Dennis J., New Brunswick, N. J. Cementitious structure. No. 1,345,156; June 29; v. 275; p. 929.
Flynn, George F., Milwaukee, Wis. Motor-support. No. 1,349,418; Aug. 10; v. 277; p. 303.
Flynn, James, Soo Junction, Mich. Sheet-music moving and time-keeping apparatus. No. 1,352,363; Sept. 7; v. 278; p. 124.
Flynn, John. (See McClellan, C. D., and Flynn.)
Flynn, John H., Jr., Cincinnati, Ohio. Insulated pulley-block. No. 1,359,046; Nov. 16; v. 280; p. 466.
Flynn, John H., Jr., Cincinnati, Ohio. Hook and shackle for pulley-blocks. No. 1,363,401; Dec. 28; v. 281; p. 615.
Flynn, John H., Sr., Cincinnati, Ohio. Street-car. No. 1,332,980; Mar. 9; v. 272; p. 206.
Flynn, John J., Providence, R. I. Threading-tool. No. 1,350,861; Aug. 24; v. 277; p. 702.
Flynn, John J., Providence, R. I. Chaser. No. 1,350,862; Aug. 24; v. 277; p. 702.
Flynn, Olice A., Milton, Wash. Comic doll. No. 1,336,898; Apr. 13; v. 273; p. 287.
Flynn, Patrick A., Willamina, Oreg. Lock-nut. No. 1,363,504; Dec. 28; v. 281; p. 635.
Foamite Fireform Company. (See Epps, Frank A., assignor.)
Foamite Firefoam Company. (See Erwin, O. R., and Flory, assignors.)
Foans, Andrew B., New York, N. Y. Wagon-swing. No. 1,335,572; Mar. 30; v. 272; p. 859.
Foans, Andrew B., New York, N. Y. Wagon-rocker. No. 1,345,322; June 29; v. 275; p. 972.
Foans, Andrew B., New York, N. Y. Toy vehicle. No. 1,362,407; Dec. 14; v. 281; p. 330.
Foco Oil Company. (See Grant, Denison W., assignor.)
Foerderer, Louis S., Indianapolis, Ind. Sewer-trap. No. 1,338,432; Apr. 27; v. 273; p. 720.
Foerster, Arthur R. (See Cohen, S., and Foerster.)
Foerster, Tom J., and L. J. Pfund, Auburn, Mich. Automatically-closing bulkhead-door. No. 1,337,060; Apr. 13; v. 273; p. 318.
Foersterling, Hans, H. Philipp, and R. N. Sargent, Perth Amboy, N. J., assignors to The Roessler & Hasslacher Chemical Co., New York, N. Y. Manufacturing cyanogen compounds. No. 1,332,439; Mar. 2; v. 272; p. 51.
Fogarty Patent Interchangeable Harvesting Corporation Limited, The. (See de Brandt, William F., assignor.)
Fogg, Donald E. (See Hunt and Fogg.)
Fogg, Lester R., Quincy, Mass. Grease-cup. No. 1,361,844; Dec. 14; v. 281; p. 220.
Fogg, Newell T., Melrose, Mass. Belt. No. 1,338,859; May 4; v. 274; p. 39.
Fogg, Newell T., Melrose, Mass. Hockey-stick. No. 1,338,860; May 4; v. 274; p. 39.
Foggie, William, Brooklyn, N. Y. Manicuring device. No. 1,345,918; July 6; v. 276; p. 116.
Fogh, Carl S., Philadelphia, Pa. Treating ores and apparatus therefor. No. 1,362,408; Dec. 14; v. 281; p. 331.
Fogh, Viggo, Miles City, Mont. Harrow. No. 1,341,365; May 25; v. 274; p. 717.
Fogh, Walter B., Seattle, Wash. Device for removing semisolid oleaginous materials from containers. No. 1,350,598; Aug. 24; v. 277; p. 653.
Fogh, Walter B., Seattle, Wash. Process of removing solid oils from cans. No. 1,350,599; Aug. 24; v. 277; p. 653.
Fohman, Charles, assignor to The Theodor Kundtz Company, Cleveland, Ohio. Pedestal for combined desks and chairs. No. 1,333,301; Mar. 9; v. 272; p. 265.
Fohn, Adolf E., Montgomery, assignor to Aurora Steel Products Company, Aurora, Ill. Door-latch. No. 1,348,001; July 27; v. 276; p. 706.
Foister, John L., assignor of one-half to W. S. Roberson, Chapel Hill, N. C. Valve. No. 1,339,750; May 11; v. 274; p. 282.
Fojtik, Peter, Fayetteville, Tex. Stovepipe-cap. No. 1,340,033; May 11; v. 274; p. 335.
Folberth, William M., Cleveland, Ohio. Windshield-cleaner. No. 1,352,504; Sept. 14; v. 278; p. 187.
Foley, Charles B., Brooklyn, N. Y. Treating metals and alloys. No. 1,350,714; Aug. 24; v. 277; p. 675.
Foley, Dollner S., Montrose, Colo. Potato-cutting machine. No. 1,327,316; Jan. 6; v. 270; p. 81.
Foley, Frank, Mayview, Ark. Propeller. No. 1,355,758; Oct. 12; v. 279; p. 310.

Digitized by Google

Foley, Michael J., *et al.* (See Bonney, Bick R., assignor.)
Foley, William V., New Brunswick, N. J., assignor to India Rubber Company. Dye-stick. No. 1,337,009; Apr. 13; v. 273; p. 309.
Folger, Harry S., Chicago, Ill. Stamp-mount. No. 1,347,152; July 20; v. 276; p. 480.
Folger, Harry S., and J. C. Julien; said Folger assignor to R. D. Swisher Manufacturing Company, Chicago, Ill. Hand-stamp. No. 1,330,251; Feb. 10; v. 271; p. 201.
Folger, Harry S., and T. Ross, assignors to R. D. Swisher Manufacturing Company, Chicago, Ill. Self-inking stamp. No. 1,353,994; Sept. 28; v. 278; p. 586.
Folgman, Emanuel, Brooklyn, N. Y. Self-blowing torch. No. 1,330,696; Feb. 10; v. 271; p. 284.
Folin, Caius V., assignor to American Abrasive Metals Company, New York, N. Y. Anchor for saftey-treads. No. 1,359,978; Nov. 23; v. 280; p. 694.
Folk, Joseph. (See Luschka, A. R., and Folk.)
Folk, Joseph, assignor to U. S. Slicing Machine Company, Laporte, Ind. Slicing-machine. No. 1,340,219; May 18; v. 274; p. 427.
Folker, Howard S. (See Chittenden, F., and Folker.)
Folker, Howard S., Mill Valley, and D. M. Bidstrup, Oroville, assignors to National Safety Appliance Company, San Francisco, Calif. Means for controlling the operative field of magnets. No. 1,334,531; Mar. 23; v. 272; p. 603.
Folks, Robert L., Waycross, Ga. Internal-combustion engine. No. 1,328,141; Jan. 13; v. 270; p. 298.
Folkush, Martin, Milwaukee, Wis. Boiler. No. 1,352,505; Sept. 14; v. 278; p. 187.
Follmer, August A. (See Greenwood, Percy, assignor.)
Follrath, Carl. (See Evilsizor, J. E., and Follrath.)
Folmar, Felix, Oklahoma, Okla. Clothes-horse. No. 1,360,912; Nov. 30; v. 280; p. 945.
Folmer, William F., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic camera. No. 1,335,728; Apr. 6; v. 273; p. 5.
Folmer, William F., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic-film sheath. No. 1,351,998; Sept. 7; v. 278; p. 57.
Folsom, Arthur E., assignor to W. M. Whitney, Winchendon, Mass. Planing-machine. No. 1,333,710; Mar. 16; v. 272; p. 403.
Folsom, Arthur V., Jacksonville, Fla. Solar steam-generator. No. 1,345,758; July 6; v. 276; p. 84.
Folster, Clarence U., assignor of one-half to P. F. O'Hara, Worcester, Mass. Auto-lock. No. 1,329,391; Feb. 3; v. 271; p. 9.
Foltmer, Conrad H., Wray, Colo. Piston-ring. No. 1,348,274; Aug. 3; v. 277; p. 29.
Foltz, Ira W., Chicago, Ill. Arch for furnaces. No. 1,346,010; July 6; v. 276; p. 135.
Folwell, Frank L., Des Moines, Iowa. Self-adjusting device for holding and tensioning antiskid-chains. No. 1,338,646; Apr. 27; v. 273; p. 760.
Foncannon, James F., El Centro, Calif. Corn-planter. No. 1,329,964; Feb. 3; v. 271; p. 116.
Fones, John H., Oakland, Calif. Wrench. No. 1,362,687; Dec. 21; v. 281; p. 437.
Fontaine, Robert A., assignor of one-half to S. S. Stephens, Martinsville, Va. Brick-mold. No. 1,361,148; Dec. 7; v. 281; p. 33.
Fontaine, Walter R., assignor to Western Vulcanizer Manufacturing Company, Chicago, Ill. Clamp. No. 1,346,947; July 20; v. 276; p. 441.
Fontquerni-Vila, Emilio, New York, N. Y. Window-controlling device. No. 1,348,275; Aug. 3; v. 277; p. 29.
Fooks, Nelson H., Preston, Md. Valve. No. 1,327,540; Jan. 6; v. 270; p. 123.
Fooks, Nelson H., Preston, Md. Heat-treating food or other substance. No. 1,354,962; Oct. 5; v. 279; p. 102.
Fooks, Nelson H., Preston, Md. Apparatus for heat-treating foods or other substances. No. 1,363,103; Dec. 21; v. 281; p. 518.
Fooks, Nelson H., Mount Airy, Md. Heat-treating foods or other substances. No. 1,331,837; Feb. 17; v. 271; p. 472.
Foos, Marcus A., Jersey City, N. J., assignor to National Carbon Company, Inc. Dry-cell tamper. No. 1,329,965; Feb. 3; v. 271; p. 116.
Foote, Charles E., assignor to The Foote Company, Nunda, N. Y. Traction driving and steering mechanism for track-laying tractors. No. 1,356,615; Oct. 29; v. 279; p. 565.
Foote, Charles M., Nashua, N. H. Guard. No. 1,350,797; Aug. 24; v. 277; p. 691.
Foote Company, The. (See Foote, Charles E., assignor.)
Foote, James H., Cincinnati, Ohio. Sash-pulley. No. 1,361,240; Dec. 7; v. 281; p. 51.
Foote, Leonard, Pedro Miguel, Canal Zone, Panama. Electric motor. No. 1,338,568; Apr. 27; v. 273; p. 746.
Foote, Theodore M., Allston, assignor, by mesne assignments, to Boston Scale and Machine Co., Boston, Mass. Weighing-machine. No. 1,344,339; June 22; v. 275; p. 716.
Foote, William J., *et al.* (See Cooke, William J., assignor.)
Foothorap, Harry A., assignor to Elliott-Fisher Company, Harrisburg, Pa. Writing-adding machine. No. 1,331,388; Feb. 17; v. 271; p. 472.
Foothorap, Harry A., assignor to Elliott-Fisher Company, Harrisburg, Pa. Tabulating mechanism. No. 1,349,824; Aug. 17; v. 277; p. 455.
Footograph Company, The. (See Phillips, Austave P., assignor.)
Forbes, Archibald W., Edinburgh, Scotland. Supporting means for traveling cables and the like. No. 1,355,460; Oct. 12; v. 279; p. 253.
Forbes, Charles S., Brookline, Mass., assignor to Union Industrial Company, Kittery, Me. Spinning-ring. No. 1,333,072; Mar. 9; v. 272; p. 228.
Forbes, Leander, Flint, Mich. Track construction. No. 1,362,484; Dec. 14; v. 281; p. 345.
Forbes, Nathaniel D., West Haven, assignor to Winchester Repeating Arms Company, New Haven, Conn. Flash-light battery. No. 1,358,717; Nov. 16; v. 280, p. 402.
Forbes, Philip J., *et al.* (See Rendano, Emil, assignor.)
Forbes, Wesley N., Dartmouth, Nova Scotia, Canada. Tire-tread. No. 1,349,055; Aug. 10; v. 277; p. 231.
Force, Raymond C., assignor to California Corrugated Culvert Company, Oakland, Calif. Automatic feed-trough. No. 1,331,008; Feb. 17; v. 271; p. 412.
Force, Raymond C., assignor to California Corrugated Culvert Company, Oakland, Calif. Automatic Hog-watering trough. No. 1,363,242; Dec. 28; v. 281; p. 585.
Forcier, William G., Wollaston, Mass. Ventilating system. No. 1,348,557; Aug. 3; v. 277; p. 83.
Forcoz, Maurice, Stratford, Conn. Window-screen. No. 1,335,573; Mar. 30; v. 272; p. 859.
Ford, Andrew F., Portland, Oreg. Gearless differential. No. 1,336,950; Apr. 13; v. 273; p. 297.
Ford, Andrew F., Portland, Oreg. Friction-brake for differentials. No. 1,358,434; Nov. 9; v. 280; p. 301.
Ford, Archibald E., London, England. Collapsible boat. No. 1,333,109; Mar. 9; v. 272; p. 229.
Ford, Arthur J. (See Peel, J. A., and Ford.)
Ford, Arthur S., New York, N. Y. Frame. No. 1,331,009; Feb. 17; v. 271; p. 413.
Ford, Ben K., East Orange, N. J. Duplex board. No. 1,345,081; June 29; v. 275; p. 924.
Ford, Bruce, Philadelphia, Pa. Secondary or storage battery. No. 1,329,590; Feb. 3; v. 271; p. 46.
Ford, David O., Wauneta, Nebr. Drive-belt unshipper. No. 1,355,461; Oct. 12; v. 279; p. 253.
Ford, Eardley H. (See Baker, R. E., Ford, and Harber.)
Ford, Frank A., Glenpool, Okla. Protective means against lightning. No. 1,330,858; Feb. 17; v. 271; p. 382.
Ford, Frank G., Carlstadt, N. J. Hair-trimming gage. No. 1,355,038; Oct. 5; v. 279; p. 117.
Ford, George E., Olden, Tex. Toy grasshopper. No. 1,362,248; Dec. 14; v. 281; p. 300.
Ford, George H., Needles, Calif. Self-locking seal. No. 1,338,618; Apr. 27; v. 273; p. 755.
Ford, Hannibal C., Jamaica, N. Y. Time-of-flight clock. No. 1,355,829; Oct. 19; v. 279; p. 364.
Ford, Hannibal C., New York, N. Y., assignor to Ford Instrument Company, Inc. Target-bearing and range-finding periscope. No. 1,332,209; Mar. 2; v. 272; p. 6.
Ford, Hannibal C., Jamaica, assignor to Ford Instrument Company, Inc., New York, N. Y. Calculating instrument. No. 1,332,210; Mar. 2; v. 272; p. 6.
Ford, Henry, Dearborn, Mich. Transmission mechanism for tractors. No. 1,347,690; July 27; v. 276; p. 644.
Ford Instrument Company. (See Ford, Hannibal C., assignor.)
Ford, John O., Jacksonville, Tex. Wagon-unloading device. No. 1,329,392; Feb. 3; v. 271; p. 9.
Ford, Joseph C., assignor to French Battery & Carbon Company, Madison, Wis. Hand-lamp. No. 1,358,368; Nov. 9; v. 280; p. 287.
Ford, Louis M., Vandalia, Ill. Closure. No. 1,348,857; Aug. 10; v. 277; p. 192.
Ford, Louis M., Vandalia, Ill. Cleat for securing and protecting sheet-roofing. No. 1,348,858; Aug. 10; v. 277; p. 193.
Ford, Matthew A., Rockford, Ill. Gridiron. No. 1,345,590; July 6; v. 276; p. 52.
Ford Motor Company. (See Galamb, Joseph, assignor.)
Ford Motor Company of Delaware. (See Riemenschneider, Ernest, assignor.)
Ford, Paul B., assignor to Market Garden Tractor Co., Minneapolis, Minn. Garden-tractor. No. 1,353,156; Sept. 21; v. 278; p. 377.
Ford, Robert H., *et al.* (See Priest, H. M., Ford, Greenabaum, and Richardson.)
Ford, Silas M. (See Wniff. Henry, assignor.)
Ford, Silas M., St. Paul, Minn. Manufacturing prepared roofing. No. 1,339,327; May 4; v. 274; p. 125.
Ford Tire & Rubber Company. (See Anderson, A. V., and Morgan, assignors.)
Ford, Vincent P. (See Richards and Ford.)
Ford, William R., Jacksboro, Tex. Tire. No. 1,363,035; Dec. 21; v. 281; p. 505.
Fording, William G., assignor to J. T. Lister, Cleveland, Ohio. Putting beads on tire-carcasses. No. 1,348,164; Aug. 3; v. 277; p. 6.
Foreman, Amos L., Baltimore, Md., assignor to Foremans Systems, Incorporated, Wilmington, Del. Bottle-crate. No. 1,340,881; May 25; v. 274; p. 623.

Digitized by Google

Foreman, Lloyd M., Belva, W. Va. Temporary track for mine-cars. No. 1,342,281; June 1; v. 275; p. 131.
Foreman, William B., Louisville, Ky. Railway safety appliance. No. 1,355,599; Oct. 12; v. 279; p. 279.
Foremans Systems, Incorporated. (See Foreman, Amos L., assignor.)
Foresman, Robert, Montclair, N. J. Sound-reproducing record. No. 1,356,815; Oct. 26; v. 279; p. 604.
Forester, Herbert, assignor of one-half to A. M. Skibinsky, Cleveland, Ohio. Burner for gas or oil. No. 1,327,092; Jan. 6; v. 270; p. 40.
Forester, William H., Portage la Prairie, Manitoba, assignor of one-half to G. F. Bailey, Toronto, Ontario, Canada. Broom. No. 1,358,369; Nov. 9; v. 280; p. 287.
Forge Products Corporation. (See Waters, James P., assignor.)
Forker, Charles W., Los Angeles, Calif. Spud-machine. No. 1,362,409; Dec. 14; v. 281; p. 331.
Förland, Tormod R. (See Olsen, H., and Förland.)
Forman, Benjamin, Rochester, N. Y. Necktie. No. 1,363,243; Dec. 28; v. 281; p. 586.
Forman, Joseph, Baltimore, Md. Garment-fastener. No. 1,336,692; Apr. 13; v. 273; p. 247.
Forman, Paris R., Chicago, Ill. Automatic reversing mechanism for door-operating motors. No. 1,329,704; Feb. 3; v. 271; p. 67.
Forman, Philip, Jersey City, N. J. Combined mixing and dispensing apparatus. No. 1,336,214; Apr. 6; v. 273; p. 96.
Formby, George M., Jacksonville, Fla. Firearm. No. 1,343,444; June 15; v. 275; p. 475.
Formway, Verla L., and S. S. Sloneker, Plainview, Tex. Double-action pump. No. 1,348,353; Aug. 3; v. 277; p. 44.
Fornıraseo, Domenico, Klamath Falls, Oreg. Wrench. No. 1,337,550; Apr. 20; v. 273; p. 484.
Fornonzini, Gervaso, Lanzada, Italy. Sighting means for firearms, optical apparatus, and the like. No. 1,329,075; Jan. 27; v. 270; p. 539.
Forrest, Edwin, New York, N. Y. Phonograph. No. 1,357,492; Nov. 2; v. 280; p. 55.
Forrest, Edwin, Caney, Kans. Gas-trap for wells. No. 1,360,913; Nov. 30; v. 280; p. 945.
Forrest, James M., Jr., San Francisco, Calif. Faucet-filter. No. 1,337,061; Apr. 13; v. 273; p. 318.
Forrester, Peter C., West Tacoma, Wash. Filter. No. 1,349,056; Aug. 10; v. 277; p. 231.
Forry, Charles E., Oakland, assignor to American Can Company, San Francisco, Calif. Sealing cans. No. 1,363,581; Dec. 28; v. 281; p. 651.
Forsberg, Erik A., Stockholm, Sweden. Ball or roller bearing. No. 1,334,027; Mar. 16; v. 272; p. 463.
Forsberg, George A., New Britain, Conn. Automobile direction-signal. No. 1,351,635; Aug. 31; v. 277; p. 917.
Forsberg, Marcus. (See Forsberg, William, assignor.)
Forsberg, William, assignor of one-half to M. Forsberg, New York, N. Y. Motor control for sewing-machines. No. 1,339,817; May 11; v. 274; p. 294.
Forse, Lyndall, assignor of one-third to T. Thring and one-third to R. J. Luffman, Yeovil, Somerset, England. Manufacture of Mocha leather. No. 1,339,751; May 11; v. 274; p. 282.
Forse, William H., Jr., Anderson, Ind. Window-shade hanger. No. 1,343,771; June 15; v. 275; p. 540.
Forshee, Frank F. (See Thornton, F., Jr., and Forshee.)
Forshee, Isaac C., Germantown, Pa., and C. Gilman, Plainfield, N. J. Manhole construction. No. 1,350,306; Aug. 24; v. 277; p. 594.
Forshee, James K., Chicago, Ill. Electrode. No. 1,337,894; Apr. 20; v. 273; p. 550.
Forsheim, Joseph, Great Neck, and J. Konigsberg, New York, assignors to L. S. Forsheim, Great Neck, N. Y. Lock. No. 1,334,950; Mar. 30; v. 272; p. 742.
Forsheim, Lena S. (See Forsheim, J., and Konigsberg, assignors.)
Forslund, John E., assignor to Fulford Mfg. Co., Providence, R. I. Socket member for snap-fasteners. No. 1,360,914; Nov. 30; v. 280; p. 945.
Forsman, Viktor and E. Danielson, Detroit, Mich. Bushing-holder. No. 1,339,448; May 11; v. 274; p. 224.
Forsstrom, William, Youngstown, Ohio. Manipulator. No. 1,360,106; Nov. 23; v. 280; p. 719.
Forst, Samuel G. (See Donald, William H., assignor.)
Forster, Andrew, and J. H. Brown, Cowes, assignors to J. Samuel White & Company, Limited, East Cowes, Isle of Wight, England. Air-valve. No. 1,328,951; Jan. 27; v. 270; p. 516.
Forster, Frank J., Cleveland, Ohio. Grooving-machine for weather-strips. No. 1,361,377; Dec. 7; v. 281; p. 79.
Forster, George. (See Hadcock, A. G., and Forster.)
Forsyth Dyeing Co., The. (See Bolton, John T., assignor.)
Forsyth, Homer C., Waldo, Fla. Railway spiking-machine. No. 1,347,943; July 27; v. 276; p. 694.
Forsyth, Joseph E., Chicago, Ill. Train-pipe coupling. No. 1,360,631; Nov. 30; v. 280; p. 891.
Forsythe, Clarence E., Milwaukee, Wis. Safety-catch for cuff-links. No. 1,353,525; Sept. 21; v. 278; p. 449.
Forsythe Mfg. Co. (See Allen, Frederick B., assignor.)
Fort, George L., Des Moines, Iowa, assignor to Fort-Ified Manufacturing Company, Kansas City, Mo. Type-metal agitator. No. 1,363,402; Dec. 28; v. 281; p. 615.
Fort, O. W., *et al.* (See Brown, Egbert B., assignor.)
Fort Wayne Engineering & Manufacturing Co. (See Astrom, John, assignor.)
Fortescue, Charles L. (See Davis, David C., and Fortescue.)
Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Method of and apparatus for spot-welding. No. 1,327,814; Jan. 13; v. 270; p. 236.
Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Protective means for distributing systems. No. 1,339,923; May 11; v. 274; p. 314.
Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical protective device. No. 1,344,759; June 29; v. 275; p. 864.
Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Co. System of distribution. No. 1,351,033; Aug. 31; v. 277; p. 798.
Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of distribution. No. 1,357,229; Nov. 2; v. 280; p. 6.
Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of distribution. (Reissue.) No. 14,978; Nov. 9; v. 280; p. 352.
Fortescue, Charles L., assignor to Westinghouse Electric & Manufacturing Company, Pittsburgh, Pa. Electrical protective device. No. 1,358,718; Nov. 16; v. 280; p. 402.
Fortescue, Charles L., Pittsburgh, and Lewis W. Chubb, Edgewood Park, Pa., assignors to Westinghouse Electric and Manufacturing Company. Means for and method of producing etheric disturbances. No. 1,355,551; Oct. 12; v. 279; p. 270.
Forth, Charles, assignor to The Flexible Metal Hose Company, Ottawa, Ontario, Canada. Self-locking attachment for railway switch-handles. No. 1,353,825; Sept. 28; v. 278; p. 552.
Fortier, George W., Grand Rapids, Mich. Curtain-fastener. No. 1,363,244; Dec. 28; v. 281; p. 586.
Fortier, John J., and J. K. Sherwood, Grand Rapids, Mich.; said Sherwood, assignor to said Fortier. Oiler for loose pulleys. No. 1,345,843; July 6; v. 276; p. 101.
Fortier, Ulysses D., *et al.* (See La Point, Steve, assignor.)
Fort-Ified Manufacturing Company. (See Fort, George L., assignor.)
Fortin, Charles J., St. Paul, Minn. High-tension switch. No. 1,334,848; Mar. 23; v. 272; p. 664.
Fortin, Peter L., Lynn, Mass. Stocking-protector. No. 1,356,492; Oct. 19; v. 279; p. 494.
Forton, Frank, Washburn, Wis. Spike-puller. No. 1,344,628; June 29; v. 275; p. 838.
Forton, George, Detroit, Mich. Wrench. No. 1,347,691; July 27; v. 276; p. 644.
Fortuna, John J., George, Iowa. Plow. No. 1,331,636; Feb. 24; v. 271; p. 549.
Fortuna-Werke Albert Hirth. (See Hirth, Carl A., assignor.)
Fortuna-Werke, Specialmaschinenfabrik G. M. B. H. (See Loose, Johannes, assignor.)
Forward, Arthur J., Ottawa, Ontario, Canada. Index-clip. No. 1,347,942; July 27; v. 276; p. 694.
Forward, Frank L., Nyack, N. Y., assignor to Universal Planer Company, Inc. Portable planing-machine. No. 1,337,350; Apr. 20; v. 273; p. 447.
Fosberg, Henry C., assignor to Art Metal Construction Company, Inc., Jamestown, N. Y. File-box. No. 1,340,034; May 11; v. 274; p. 335.
Fosberg, Henry C., assignor to Art Metal Construction Company, Inc., Jamestown, N. Y. File-box and follower. No. 1,340,035; May 11; v. 274; p. 335.
Foss, Antonius, and B. F. Halvorsen, assignors to Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Christiania, Norway. Metallurgical process. No. 1,340,480; May 18; v. 274; p. 477.
Foss, Benjamin Q. P., assignor to The Foss International Ore Reduction Company, San Francisco, Calif. Apparatus for desulfurizing and treating ore. No. 1,338,292; Apr. 27; v. 273; p. 695.
Foss, Fred G., Newark, N. J., assignor to American Can Company, New York, N. Y. Apparatus for pneumatic can-drying. No. 1,361,039; Dec. 7; v. 281; p. 12.
Foss, Gustav E., Chicago, and H. G. Jensen, Berwyn, Ill. Disk-record holder. No. 1,349,272; Aug. 10; v. 277; p. 275.
Foss-Hughes Company. (See Noonan, Albert S., assignor.)
Foss International Ore Reduction Company. (See Foss, Benjamin Q. P., assignor.)
Foss, Ludvig T., Sandefjord, Norway. Motion-registering apparatus. No. 1,340,036; May 11; v. 274; p. 335.
Foss, Olaf H., Maddock, N. D. Skin-marker. No. 1,363,104; Dec. 21; v. 281; p. 518.
Foss, Olaf H., Maddock, N. D. Skin-marking device. No. 1,363,105; Dec. 21; v. 281; p. 518.
Foss, W. H. Co. (See Foss, Wallace H., assignor.)

Digitized by Google

Foss, Wallace H., Cambridge, assignor to W. H. Foss Co., Inc., Boston, Mass. Shank-stiffener. No. 1,361,452; Dec. 7; v. 281; p. 96.
Fosston, Axel A., assignor to Seal-Tite Piston Ring Company, Minneapolis, Minn. Making piston-rings. No. 1,340,037; May 11; v. 274; p. 335.
Fosston-Carpenter Company. (See Ek, Nels G., assignor.)
Foster Bros. Mfg. Co. (See Frank, William E., assignor.)
Foster Brothers Manufacturing Company. (See Foster, William B., assignor.)
Foster, Charles C., Chicago, Ill. Stove. No. 1,353,826; Sept. 28; v. 278; p. 552.
Foster, Donovan, assignor of one-fourth to J. B. Wadman, Seattle, Wash. Illusion apparatus. No. 1,351,562; Aug. 31; v. 277; p. 903.
Foster, Edward E., Beverly, Mass. Cam-path-generating machine. No. 1,347,085; July 20; v. 276; p. 468.
Foster, Edward E., Beverly, assignor to C. C. Blake, Incorporated, Boston, Mass. Stop-mechanism. No. 1,328,145; Jan. 13; v. 270; p. 298.
Foster, Ernest H., Dongan Hills, assignor to Power Specialty Company, New York, N. Y. Superheater. No. 1,347,086; July 20; v. 276; p. 468.
Foster, Ernest H., Dongan Hills, assignor to Power Specialty Company, New York, N. Y. Superheater. No. 1,357,493; Nov. 2; v. 280; p. 55.
Foster, Fletcher P. (See Brewen, W. M., and Foster.)
Foster, Frank, Kansas City, Mo. Power-transmission attachment for automobiles. No. 1,355,759; Oct. 12; v. 279; p. 310.
Foster, Frank, Kansas City, Mo. Steam carbon-remover. No. 1,358,946; Nov. 16; v. 280; p. 448.
Foster, George D., assignor to Union Land & Power Company, North Yakima, Wash. Power-windmill. No. 1,329,299; Jan. 27; v. 270; p. 581.
Foster, George W., assignor of one-half to G. Mayer, New York, N. Y. Flush-valve. No. 1,329,169; Jan. 27; v. 270; p. 557.
Foster, George W., Providence, R. I., assignor to Universal Winding Company, Boston, Mass. Winding-machine. No. 1,347,626; July 27; v. 276; p. 631.
Foster, Glyn W. A. (See Bailey, G. H., and Foster.)
Foster, Guy T., Shawnee, assignor to L. Thompson, Tulsa, Okla. Feed-water heater. No. 1,331,845; Feb. 24; v. 271; p. 589.
Foster, Harry C. (See De Martin, C. L., and Foster.)
Foster, Harry C., assignor of one-half to C. G. Setzer, Lehighton, Pa. Bearing-box. No. 1,349,449; Aug. 10; v. 277; p. 309.
Foster, Harry J., Chicago, Ill. Circle-guide for oxy-acetylene torches. No. 1,351,846; Sept. 7; v. 278; p. 26.
Foster, Henry J., assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Rim-fastening means. No. 1,341,118; May 25; v. 274; p. 669.
Foster, Henry J., and E. Gruenfeldt, assignors to Hydraulic Pressed Steel Company, Cleveland, Ohio. Sheet-metal wheel. No. 1,340,220; May 18; v. 274; p. 428.
Foster-Johnson Reamer Company. (See Johnson, William B., assignor.)
Foster, Llewellyn M., Red Bluff, Calif. Form for concrete walls. No. 1,331,191; Feb. 17; v. 271; p. 446.
Foster, Lloyd. (See Cook, T. B., and Foster.)
Foster Machine Company. (See Holt, F. A., and Kershaw, assignors.)
Foster Machine Company. (See Kylin, Oskar, assignor.)
Foster, Marcellus. (See Pope, Turner T., assignor.)
Foster Marine Boiler Corporation. (See Bell, John E., assignor.)
Foster, Merriam & Company. (See Hinckley, Percy P., assignor.)
Foster-Reinhold Laboratories. (See Reinhold, Otto F., assignor.)
Foster, Stephen A., Toledo, Ohio. Advertising weather-shelter. No. 1,327,427; Jan. 6; v. 270; p. 102.
Foster, Uri D., and J. Litke, assignors to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Feeder for metal-working machines. No. 1,350,715; Aug. 24; v. 277; p. 675.
Foster, Walter H. (See Eden, James A., Jr., assignor.)
Foster, William B., Norwood, assignor to M. Fischer, Cincinnati, Ohio. Belting. No. 1,332,390; Mar. 2; v. 272; p. 42.
Foster, William B., assignor to Foster Brothers Manufacturing Company, Utica, N. Y. Cushion for sliding-side cribs. No. 1,345,485; July 6; v. 276; p. 81.
Foster, William H., Bayside, N. Y. Journal-box. No. 1,342,164; June 1; v. 275; p. 109.
Foster, William R., Cincinnati, assignor to The Stearns and Foster Company, Lockland, Ohio. Upholstery-padding. No. 1,331,562; Feb. 24; v. 271; p. 535.
Foster, William S., Dallas, Wis. Road-planer. No. 1,336,215; Apr. 6; v. 273; p. 97.
Fotch, Ferdinand J. (See Haywood, James, assignor.)
Fothergill, Edmund W., Hartford, Conn., assignor to Hartford Rubber Works Company. Tire-vulcanizing mold. No. 1,331,146; Feb. 17; v. 271; p. 437.
Fouarge, Franz, Swansea, Wales. Roasting-furnace. No. 1,335,490; Mar. 30; v. 272; p. 843.
Fouch, James R., Los Angeles, Calif. Tractor. No. 1,342,461; June 1; v. 275; p. 153.
Fouhy, Michael A., New York, N. Y. Column. No. 1,335,104; Mar. 30; v. 272; p. 772.
Foulder, Henry B., Brooklyn, assignor to J. P. Curry M'f'g Co., Inc., New York, N. Y. Tool for twisting wire ties. No. 1,341,459; May 25; v. 274; p. 736.
Foundation Oven Corporation. (See Roberts, William E., assignor.)
Fountain, Jefferson L., Jr. (See Abbott, Cecil H., assignor.)
Fountain Tooth-Brushes Limited. (See Grace, Walter, assignor.)
Four-Drive Tractor Company, The. (See Polaski, Henry P., assignor.)
Fourneaux, Emile A., Manchester, England. Production of black upon vegetable textile fibers, silk fibers, or mixtures of same. No. 1,329,117; Jan. 27; v. 270; p. 548.
Fourneaux, Emile A., Manchester, England. Production of black upon textile fibers. (Reissue.) No. 14,824; Mar. 23; v. 272; p. 684.
Fourneaux, Emile A., Manchester, England. Production of aniline black upon vegetable textile fibers. No. 1,350,600; Aug. 24; v. 277; p. 653.
Fournier, Fred, San Francisco, Calif. Reversible window. No. 1,341,366; May 25; v. 274; p. 717.
Fournier, George P. (See Lemoine, D., and Fournier.)
Foutz, Orlando V., Vacaville, Calif. Adhesive composition. No. 1,360,915; Nov. 30; v. 280; p. 945.
Fow, Raymond S. C., assignor of seventy-nine one-hundredths to R. T. Frush and twenty-one one-hundredths to W. Thompson, Philadelphia, Pa. Slicing-machine. No. 1,328,916; Jan. 27; v. 270; p. 510.
Fowden, Joseph J., Philadelphia, Pa. Fire-grate. No. 1,337,214; Apr. 20; v. 273; p. 421.
Fowl, Percy M., *et al.* (See Heideman, Fred J., assignor.)
Fowler, Ben F., Midian, Kans. Means of sediment-drainage. No. 1,337,215; Apr. 20; v. 273; p. 421.
Fowler, Charles. (See Nicholson, John W., assignor.)
Fowler, Charles, Watseka, Ill. Deflector. No. 1,338,824; May 4; v. 274; p. 32.
Fowler, Charles, Tomkins Cove, N. Y. Potato picker or gatherer. No. 1,351,948; Sept. 7; v. 278; p. 47.
Fowler, Clarence B., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,330,252; Feb. 10; v. 271; p. 201.
Fowler, Clarence B., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,356,704; Oct. 26; v. 279; p. 583.
Fowler, Del Roy F., Melrose Park, assignor to F. P. Woll, Philadelphia, Pa. Upholstery material. No. 1,332,549; Mar. 2; v. 272; p. 72.
Fowler, Del Roy F., Melrose Park, assignor to F. P. Woll, Philadelphia, Pa. Padding-bandage. No. 1,332,550; Mar. 2; v. 272; p. 72.
Fowler, Edward, and J. V. Lewis, St. Elmo, Tenn. Agricultural implement. No. 1,337,126; Apr. 13; v. 273; p. 329.
Fowler, Edward E., Winthrop, assignor to Costmeter Company, Boston, Mass. Filing and indexing equipment. No. 1,352,506; Sept. 14; v. 278; p. 188.
Fowler, Edward E., Winthrop, assignor to Costmeter Company, Boston, Mass. Filing and indexing equipment. No. 1,352,507; Sept. 14; v. 278; p. 188.
Fowler, Fannie A., administratrix. (See Fowler, Nathaniel C., Jr.)
Fowler, Henry C., Johnson City, N. Y. Folding display-truck. No. 1,350,963; Aug. 24; v. 277; p. 722.
Fowler, John C., Syracuse, N. Y. Suspensory. No. 1,350,863; Aug. 24; v. 277; p. 702.
Fowler, John H., Lewistown, Pa. Supporting-bracket. No. 1,348,399; Aug. 3; v. 277; p. 53.
Fowler, John T., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Pulverizer. No. 1,339,950; May 11; v. 274; p. 319.
Fowler, Lewis D., assignor of one-half to J. M. Postelle, Oklahoma, Okla. Pliers. No. 1,344,629; June 29; v. 275; p. 839.
Fowler, Nathaniel C., Jr., deceased, Boston, Mass; F. A. Fowler, administratrix. Fruited flower and making same. No. 1,333,967; Mar. 16; v. 272; p. 451.
Fowler, Nathaniel C., Jr., deceased, Boston, Mass.; F. A. Fowler, administratrix. Food product. No. 1,349,753; Aug. 17; v. 277; p. 442.
Fowler, Thomas C., Auckland, New Zealand. Wire-strainer. No. 1,362,688; Dec. 21; v. 281; p. 437.
Fowles, Alfred T., Dallas, Tex. Boiler-stand. No. 1,332,119; Feb. 24; v. 271; p. 640.
Fowles, Alfred T., Dallas, Tex. Wrench. No. 1,360,916; Nov. 30; v. 280; p. 945.
Fownes Brothers & Co. (See Kaufmann, Frank J., assignor.)
Fox, Adam H., Wissahickon, assignor to Standard Car Construction Company, Sharon, Pa. Punching-machine. No. 1,334,364; Mar. 23; v. 272; p. 572.
Fox, Albert C., Lamar, Colo. Writing attachment for automobile steering-wheels. No. 1,344,498; June 22; v. 275; p. 748.
Fox, Ansley H., Company. (See Fox, A. H., and Rice, assignors.)

Digitized by Google

Fox, Ansley H., and W. J. Rice, assignors to Ansley H. Fox Company, Philadelphia, Pa. Magazine or cartridge feeding device for automatic machine-guns. No. 1,335,677; Mar. 30; v. 272; p. 879.
Fox, Elmer E., Massillon, Ohio. Railway-tie. No. 1,349,754; Aug. 17; v. 277; p. 442.
Fox, Francis C. C., Sawtelle, Calif. Electric motor. No. 1,354,388; Sept. 28; v. 278; p. 667.
Fox, Frank H. (See Wallace and Fox.)
Fox, Frank H. (See Wallace, P. B., and Fox.)
Fox, George, Wichita, Kans. Intake-manifold. No. 1,347,807; July 27; v. 276; p. 667.
Fox, George P., *et al.* (See Bear, Claude A., assignor.)
Fox, Harold E., Newtown, Sydney, New South Wales, Australia. Spring-roller blind. No. 1,342,017; June 1; v. 275; p. 79.
Fox, John F., Birmingham, Ala., assignor to Southern Wheel Company, St. Louis, Mo. Axle-truck. No. 1,355,760; Oct. 12; v. 279; p. 310.
Fox, John F., Birmingham, Ala., assignor to Southern Wheel Company, St. Louis, Mo. Lubricating device for mine-car wheels. No. 1,357,972; Nov. 9; v. 280; p. 208.
Fox, John F., Birmingham, Ala., assignor to Southern Wheel Company, St. Louis, Mo. Hollow-axle wheel. No. 1,359,683; Nov. 23; v. 280; p. 635.
Fox, John H. (See Turnbull, C. W., and Fox.)
Fox, Julius, Cleveland, Ohio. Aeroplane. No. 1,338,128; Apr. 27; v. 273; p. 664.
Fox, Kent R. (See Allen, H. I., and Fox.)
Fox, Louis. (See Cranage, Harry B., assignor.)
Fox, Louis H., Covington, Ohio. Egg-candler. No. 1,361,040; Dec. 7; v. 281; p. 12.
Fox, P. A., *et al.* (See Atteberry, William A., assignor.)
Fox, Ralph, Wooster, Ohio. Folding ironing-board. No. 1,340,265; May 18; v. 274; p. 436.
Fox, Ralph P., Harrisburg, Pa. Safety attachment for airplanes. No. 1,348,704; Aug. 3; v. 277; p. 111.
Fox, Raphael A., New York, N. Y. Shoe-tongue pad. No. 1,355,323; Oct. 12; v. 279; p. 226.
Fox, Robert W., West Frankfort, Ill. Button. No. 1,343,080; June 8; v. 275; p. 341.
Fox Typewriter Co. (See Nordmark, Henry P., assignor.)
Foxboro Company, The. (See Bristol, Edgar H., assignor.)
Fradsham, Thomas C., Carson City, Nev. Typewriting-machine. No. 1,333,166; Mar. 9; v. 272; p. 240.
Fragner, Albert G., Monroe, Mich. End chute. No. 1,354,817; Oct. 5; v. 279; p. 74.
Frahm, Henry C., Halycon, Calif. Pump. No. 1,331,846; Feb. 24; v. 271; p. 589.
Fraley, George B., Debruce, N. Y. Electric battery. No. 1,334,849; Mar. 23; v. 272; p. 664.
Framburg, Henry A., Berwyn, Ill. Lamp-socket structure. No. 1,335,828; Apr. 6; v. 273; p. 28.
Frame, Bruce, Portland, Oreg. Sweeper. No. 1,336,849; Apr. 6; v. 273; p. 122.
Frame, Frank W. (See Spurr and Randall, assignors.)
Frame, Robert N., Buffalo, N. Y. Bookmarker. No. 1,338,861; May 4; v. 274; p. 39.
Franc, Joseph M. E., St. Vallier, France. Disk wheel for motor-cars. No. 1,345,759; July 6; v. 276; p. 85.
Franc, Joseph M. E., St. Vallier, France. Lubricating device for leaf-springs. No. 1,350,217; Aug. 17; v. 277; p. 531.
Franc, Joseph M. E., Andancette, France. Air-pump for inflating pneumatic tires. No. 1,350,926; Aug. 24; v. 277; p. 714.
France, George R., Waycross, Ga. Locomotive driving-gear. No. 1,340,762; May 18; v. 274; p. 530.
France, John A., Sault Ste. Marie, Mich. Hay-cocking machine. No. 1,340,763; May 18; v. 274; p. 530.
France, Merle C., Cleveland, Ohio. Safety control for power-presses and the like. No. 1,340,333; May 18; v. 274; p. 448.
France, Walter M., and L. B. Jones, Meshoppen, Pa. Quick-adjusting bearing. No. 1,348,705; Aug. 3; v. 277; p. 111.
Francis, Charles E., assignor to Vickers Limited, Westminster, London, England. Sewing-machine. No. 1,331,099; Feb. 17; v. 271; p. 429.
Francis, Charles E., assignor to Vickers Limited, Westminster, London, England. Sewing-machine. No. 1,346,120; July 13; v. 276; p. 218.
Francis, Charles E., assignor to Vickers Limited, Westminster, London, England. Attachment for sewing-machines. No. 1,355,462; Oct. 12; v. 279; p. 253.
Francis, Charles W., Murfreesboro, Ark. Subsoiler attachment for plows. No. 1,358,836; Nov. 16; v. 280; p. 426.
Francis, Daniel H., Detroit, Mich. Valve construction. No. 1,340,481; May 18; v. 274; p. 477.
Francis, Harry G., Rushville, Ind. Veneer-press. No. 1,327,815; Jan. 13; v. 270; p. 286.
Francis, Harry G., Rushville, Ind. Roller-scraper bar for glue-spreading machines. No. 1,333,968; Mar. 16; v. 272; p. 451.
Francis, Vincent H., Drumright, Okla., assignor to Frick-Reid Supply Company, Pittsburgh, Pa. Pump. No. 1,337,834; Apr. 20; v. 273; p. 538.
Francisco, Marshall E., assignor of one-half to M. K. Wild, Fresno, Calif. Adjustable windshield-mirror. No. 1,345,157; June 29; v. 275; p. 939.
Franck, Val F., assignor of one-half to J. W. Demling, Louisville, Ky. Rail-clamp. No. 1,345,844; July 6; v. 276; p. 101.
Francke Co., The. (See Francke, William J., assignor.)
Francke, William J., Highland Park, N. J. Testing-machine. No. 1,335,887; Apr. 6; v. 273; p. 34.
Francke, William J., assignor to The Francke Co., Highland Park, N. J. Flexible coupling. No. 1,343,121; June 8; v. 275; p. 349.
Francke, William J., assignor to The Francke Co., Highland Park, N. J. Flexible coupling. No. 1,358,537; Nov. 9; v. 280; p. 321.
Franco Electric Corporation. (See Dam, Henry M. R., assignor.)
Franich, Louis. (See Solomon, George S., assignor.)
Frank, August C., Hayward, Calif. Dust-collecting receptacle. No. 1,356,061; Oct. 19; v. 279; p. 409.
Frank, Harry J. L. and L. H., assignors to Mutual Electric & Machine Company, Detroit, Mich. Starting-switch for motors. No. 1,338,825; May 4; v. 274; p. 32.
Frank, Harry S., St. Louis, Mo. Making piston-rings. No. 1,337,551; Apr. 20; v. 273; p. 484.
Frank, Harry S., St. Louis, Mo. Machine for manufacturing piston-rings. No. 1,345,000; June 29; v. 275; p. 909.
Frank, Henry. (See Yarnell, J. B., and Frank.)
Frank, Henry L. A., Plainview, Tex. Display device. No. 1,345,158; June 29; v. 275; p. 940.
Frank, Harry S., St. Louis, Mo. Making piston-rings. No. 1,353,227; Sept. 21; v. 278; p. 390.
Frank, Harry S., St. Louis, Mo. Manufacturing piston-rings. No. 1,353,576; Sept. 21; v. 278; p. 460.
Frank, Harry S., Woodmeer, N. Y. Making multiple molds and castings. No. 1,358,435; Nov. 9; v. 280; p. 302.
Frank, Isaiah, assignor of one-half to M. H. Harris, New York, N. Y. Testing the color perception and the susceptibility to light irritation of the retina of the human eye. No. 1,354,900; Oct. 5; v. 279; p. 90.
Frank, John J., Pittsfield, Mass., assignor to General Electric Company. Producing punchings. No. 1,334,149; Mar. 16; v. 272; p. 486.
Frank, John J., Pittsfield, Mass., assignor to General Electric Company. Electrical apparatus. No. 1,342,995; June 8; v. 275; p. 324.
Frank, Joseph, Frankfort-on-the-Main, Germany. Writing-tablet. No. 1,337,835; Apr. 20; v. 273; p. 538.
Frank, Leon H. (See Frank, Harry J. L. and L. H.)
Frank, Maxwell C., Piedmont, Calif. Washboard-holder. No. 1,331,427; Feb. 17; v. 271; p. 489.
Frank, Otto H., Brooklyn, N. Y. Rack for hanging articles and the like. No. 1,337,399; Apr. 20; v. 273; p. 456.
Frank, Otto H., Brooklyn, N. Y. Belt-rack for supporting articles. No. 1,342,626; June 8; v. 275; p. 250.
Frank, Ralph, Minneapolis, Minn. Filter or strainer attachment for faucets. No. 1,361,976; Dec. 14; v. 281; p. 246.
Frank, William E., assignor to Foster Bros. Mfg. Co., St. Louis, Mo. Spiral bed-spring. No. 1,327,231; Jan. 6; v. 270; p. 66.
Frankamp, Ernest H., Republic, Kans. Ice-cutting machine. No. 1,328,372; Jan. 20; v. 270; p. 378.
Franke, Frank, Cincinnati, Ohio. Valve. No. 1,353,037; Sept. 14; v. 278; p. 294.
Franke, Johan F., Santa Ana, Calif. Toy. No. 1,329,045; Jan. 27; v. 270; p. 534.
Frankeberger, Albert L., Bloomington, Ill., assignor to Illinois Specialty Manufacturing Company, McLean county, Ill. Banana heater and ripener. (Reissue.) No. 14,948; Sept. 14; v. 278; p. 312.
Frankel, Gustav, Seattle, Wash. Wrist-blotter. No. 1,351,378; Aug. 31; v. 277; p. 867.
Frankel, Gustave, New York, N. Y. Electric-lamp socket. No. 1,332,867; Mar. 2; v. 272; p. 132.
Frankel, Gustave, New York, N. Y. Flash-light. No. 1,332,868; Mar. 2; v. 272; p. 132.
Frankforter, George B. (See Hovland, H. B., and Frankforter.)
Frankforter, George B., Minneapolis, Minn. Absolute alcohol and making same. No. 1,350,254; Aug. 17; v. 277; p. 538.
Frankfurt, Sophie, assignor to Maher & Kassler, New York, N. Y. Skirt. No. 1,349,879; Aug. 17; v. 277; p. 466.
Frankis, Ernest E., Helston, England, assignor to Radio Corporation of America. Receiver of wireless signals. No. 1,354,290; Sept. 28; v. 278; p. 647.
Franklin, Charles S., London, England, assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Wireless transmission system. No. 1,359,979; Nov. 23; v. 280; p. 695.
Franklin, E. I., & Co. (See Franklin, Wallace G., assignor.)
Franklin, Floyd P., San Antonio, Tex. Tractor. No. 1,330,697; Feb. 10; v. 271; p. 284.
Franklin, Francis P., Liverpool, England. Constructional toy and educational device. No. 1,347,808; July 27; v. 276; p. 668.
Franklin, Gustave A. (See Shackleford, A. E., and Franklin.)

Digitized by Google

Franklin, H. H., Manufacturing Company. (See Holmes, Arthur, assignor.)
Franklin, Hubert F., Brooklyn, assignor, by mesne assignments, to Animated Target Company, Inc., New York, N. Y. Cinematographic target. No. 1,328,275; Jan. 20; v. 270; p. 359.
Franklin, Ira S., Boston, Mass. Vehicle-body and method of making the same. No. 1,362,249; Dec. 14; v. 281; p. 300.
Franklin, Iva A., and S. E. Mangum, Moody, Tex. Cultivator-tongue. No. 1,343,258; June 15; v. 275; p. 439.
Franklin, John F., Dlo, Miss. Gear. No. 1,343,047; June 8; v. 275; p. 334.
Franklin, Milton W., Bloomfield, N. J., assignor to General Electric Company. Ozonator. No. 1,337,062; Apr. 13; v. 273; p. 318.
Franklin, Nathan, Milwaukee, Wis. Radiator. No. 1,355,955; Oct. 19; v. 279; p. 388.
Franklin Railway Supply Company. (See Prescott, Charles F., assignor.)
Franklin Railway Supply Company. (See Stafford, Hal R., assignor.)
Franklin, Sir J., Beaver City, Nebr. Machine for manufacturing fuel. No. 1,356,759; Oct. 26; v. 279; p. 593.
Franklin Valveless Engine Company. (See Sheasley, Charles H., assignor.)
Franklin, Wallace G., assignor to E. I. Franklin & Co., North Attleboro, Mass. Cuff-button. No. 1,359,684; Nov. 23; v. 280; p. 635.
Franklin, William B., Fairfax, Ala. Bracket. No. 1,359,349; Nov. 16; v. 280; p. 525.
Frankman, Olof, Malmö, Sweden. Driving and running gear for agricultural machines and the like. No. 1,337,510; Apr. 20; v. 273; p. 477.
Frankman, Olof, Malmö, Sweden. Device for periodic emptying of receptacles. No. 1,351,636; Aug. 31; v. 277; p. 918.
Franks, Earl J., Buffalo, N. Y. Mold for type-casting machines. No. 1,364,045; Dec. 28; v. 281; p. 740.
Franks, Frederick B., Bath, Pa. Pulverizer. No. 1,363,106; Dec. 21; v. 281; p. 518.
Frankwich, Michael J., Brooklyn, N. Y. Composition for cleaning glass and cloth saturated therewith. No. 1,362,092; Dec. 14; v. 281; p. 269.
Franseen, Alfred, Iron River, Mich. Oar-lock shoulder. No. 1,360,516; Nov. 30; v. 280; p. 868.
Frantz, Grover C., Harrisburg, Pa. Dish-washing device. No. 1,358,192; Nov. 9; v. 280; p. 252.
Frantz Manufacturing Co. (See Frantz, Peter, assignor.)
Frantz Manufacturing Co. (See Martin, Cecil R., assignor.)
Frantz, Peter, assignor to Frantz Manufacturing Co., Sterling, Ill. Door-hanger track. No. 1,329,460; Feb. 3; v. 271; p. 22.
Frantz, Peter, assignor to Frantz Manufacturing Company, Sterling, Ill. Door-hanger track and housing. No. 1,329,461; Feb. 3; v. 271; p. 22.
Frantz, Peter, assignor to Frantz Manufacturing Co., Sterling, Ill. Door-hanger. No. 1,361,845; Dec. 14; v. 281; p. 220.
Franz, Gustave A. (See Smith, W. R. Wilcox, and Franz.)
Franz, John W., assignor of one-half to C. A. Marien, St. Louis, Mo. Automobile-radiator. No. 1,339,752; May 11; v. 274; p. 282.
Franzen, Frank C., Buxton, Iowa. Check-pocket. No. 1,347,452; July 20; v. 276; p. 540.
Frappart, Henry, Kincaid, Ill. Journal for car-wheels for all kinds of vehicles. No. 1,348,400; Aug. 3; v. 277; p. 53.
Frappart, Henry, and J. B. Bouvier, Kincaid, Ill. Rail-clamp. No. 1,353,577; Sept. 21; v. 278; p. 460.
Frary, Francis C., Pittsburgh, Pa. Gas-holder. No. 1,337,975; Apr. 20; v. 278; p. 566.
Frary, Francis C., Pittsburgh, Pa., and S. Temple, Perth Amboy, N. J. Drying gas. No. 1,359,047; Nov. 16; v. 280; p. 466.
Frary, Francis C., Oakmont, Pa., assignor to Aluminum Company of America. Manufacturing aluminum chlorid. No. 1,354,818; Oct. 5; v. 270; p. 74.
Fraser, Alexander, Renfrew, Ontario, Canada. Repeating device for talking-machines. No. 1,827,816; Jan. 13; v. 270; p. 236.
Fraser, Allan, assignor to Play-O-Lite Company, Inc., Buffalo, N. Y. Piano-lamp. No. 1,361,241; Dec. 7; v. 281; p. 52.
Fraser, Elijah E., *et al.* (See Hachmann, Frederick, assignor.)
Fraser, Gordon S. (See Fraser, Norman, J., and G. S.)
Fraser, James, assignor to Speakman Company, Wilmington, Del. Shower valve-body. No. 1,330,441; Feb. 10; v. 271; p. 286.
Fraser, James, assignor to Speakman Company, Wilmington, Del. Combined mixing and delivery valve system. No. 1,354,291; Sept. 28; v. 278; p. 647.
Fraser, John. (See Fraser, Norman, J., and G. S.)
Fraser, Joseph A., assignor to La Salle Institute, Glencoe, Mo. Automatic strainer and can-filler. No. 1,341,119; May 25; v. 274; p. 669.
Fraser, Le Roy B., New Haven, Conn., assignor to Sewell-Clapp-Envelopes, Chicago, Ill. Die-emptying device. No. 1,362,411; Dec. 14; v. 281; p. 331.
Fraser, Le Roy B., New Haven Conn., assignor to Sewell-Clapp-Envelopes, Chicago, Ill. Envelop-blank-cutting machinery. No. 1,362,410; Dec. 14; v. 281; p. 331.
Fraser, Norman, J., and G. S., Arbroath, Scotland. Sewing-machine for plaited-soled shoes. No. 1,351,637; Aug. 31; v. 277; p. 918.
Fraser, Norman P., Detroit, Mich. Lock. No. 1,346,815; July 20; v. 276; p. 415.
Fraser, William H., New York, N. Y. Sound-box attachment. No. 1,358,719; Nov. 16; v. 280; p. 402.
Frater, Andrew, Jr., Havre, Mont. License-number-plate bracket for automobiles. No. 1,361,574; Dec. 7; v. 281; p. 120.
Frauenheim, Joseph A., Zelienople, assignor to American Flexible Bolt Company, Pittsburgh, Pa. Forming hollow staybolts. No. 1,331,147; Feb. 17; v. 271; p. 437.
Frayer, Lee A. (See Miller, W. J., and Frayer.)
Frazer, Joseph C. W., Baltimore, Md., and C. C. Scalione, Washington, D. C. Catalyst and making it. No. 1,345,323; June 29; v. 275; p. 972.
Frazier, George E., assignor of one-half to S. C. Cobb, Clever, Mo. Automatic tatting apparatus. No. 1,350,445; Aug. 24; v. 277; p. 622.
Frazier, James W., Cleveland, Ohio. Furnace-charging apparatus. No. 1,331,703; Feb. 24; v. 271; p. 562.
Frazier, Philip L., Rockbury, Conn. Jointer-tool. No. 1,327,151; Jan. 6; v. 270; p. 51.
Frazier, Walter S., Aurora, Ill. Automobile-bumper. No. 1,338,483; Apr. 27; v. 273; p. 721.
Freborg, Charles, Kankakee, assignor to Price & Teeple Piano Company, Chicago, Ill. Controlling mechanism for player-pianos and the like. No. 1,343,442; June 15; v. 275; p. 475.
Frech, Charles, Sault Ste. Marie, Ontario, Canada. Valve for blowing-engines and the like. No. 1,326,923; Jan. 6; v. 270; p. 8.
Frech, Theodore W., assignor to The Peerless Motor Car Company, Cleveland, Ohio. V-type motor. No. 1,348,859; Aug. 10; v. 277; p. 193.
Frechette, John B., Valparaiso, Ind. Flexible and resilient shoe-sole. No. 1,348,706; Aug. 3; v. 277; p. 111.
Frecska, Julius, assignor of one-half to Z. Frecska, Amsterdam, Ohio. Aerial torpedo. No. 1,339,188; May 4; v. 274; p. 100.
Frecska, Zigmond. (See Frecska, Julius and Z.)
Frederick, Salvador H., St. Paul, Minn. Stove attachment. No. 1,346,883; July 20; v. 276; p. 428.
Fred Goat Company. (See Mortensen, Jens, assignor.)
Frederick, Louis T., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Method of and apparatus for molding tubular structures. No. 1,335,105; Mar. 30; v. 272; p. 772.
Frederick, Louis T., Valparaiso, Ind. Mica-building machine. No. 1,359,685; Nov. 23; v. 280; p. 636.
Fredericks, Enoch M., assignor to Joy Tooth Company, Chicago, Ill. Process and means for making artificial crowns for teeth. No. 1,335,872; Mar. 30; v. 272; p. 822.
Fredericksen, David E., Kenosha, Wis. Gage. No. 1,336,426; Apr. 13; v. 273; p. 196.
Fredrick, Marcus, *et al.* (See Brown, Robert B., assignor.)
Fredrickson, Carl G., Waltham, Mass. Engine-primer. No. 1,343,555; June 15; v. 275; p. 497.
Fredrickson, Edward C., Chetek, Wis. Hay-handling appliance. No. 1,354,247; Sept. 28; v. 278; p. 639.
Fredriksson, Nils, Stockholm, Sweden. Internal-combustion engine. No. 1,334,951; Mar. 30; v. 272; p. 742.
Free & Easy Belt Co. (See Piper, Mark A., assignor.)
Free, Edward E., Baltimore, Md., assignor to National Sulphur Company, New York, N. Y. Method and apparatus for preventing the spread of fire. No. 1,344,630; June 29; v. 275; p. 839.
Free, John W. (See O'Neil, D., Holmquist, and Free.)
Free, William C., Rockford, Ill. Sewing-machine. No. 1,342,435; June 8; v. 275; p. 214.
Freed, George F., Ben Avon, assignor to Pittsburgh Gage & Supply Company, Pittsburgh, Pa. Driving connection to washing-machine cylinders. No. 1,337,552; Apr. 20; v. 273; p. 484.
Freed, George F., Ben Avon, and J. R. Spencer, assignors to Pittsburgh Gage & Supply Company, Pittsburgh, Pa. Safety-lock for swing-wringers. No. 1,346,816; July 20; v. 276; p. 415.
Freede, Clement R. (See Nickols, H. T., and Freede.)
Freedlander, Abraham L., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Printing-roller composition. No. 1,344,631; June 29; v. 275; p. 839.
Freedman, Abe J., Chicago, Ill. Folding chair or couch. No. 1,334,296; Mar. 23; v. 272; p. 559.
Freedman, Benjiman, Coney Island, N. Y. Lock. No. 1,337,511; Apr. 20; v. 273; p. 477.
Freedman, Hyman, Chicago, Ill. Spring structure. No. 1,351,748; Sept. 7; v. 278; p. 7.
Freedman, Isadore. (See Natkiel, H., and Freedman.)
Freedman, Louis A., New York, N. Y. Battery-filling machine. No. 1,346,948; July 20; v. 276; p. 441.
Freedman, William, Brooklyn, N. Y. Garment. No. 1,341,120; May 25; v. 274; p. 669.
Freeland, Charles E. (See Klug and Freeland.)

Digitized by Google

Freeland, Lloyd D., Halbrite, Saskatchewan, Canada, assignor to W. J. H. Strong, Chicago, Ill. Hot-air motor. No. 1,342,501; June 8; v. 275; p. 226.
Freeland, Thomas, Indianapolis, Ind. Counter. No. 1,359,884; Nov. 23; v. 280; p. 675.
Freeling, Louis, *et al.* (See Thompson, Harry W., assignor.)
Freels, Ota, Spokane, Wash. Automobile-signal. No. 1,353,950; Sept. 28; v. 278; p. 577.
Freeman, Albert M. (See Eisner, M., and Freeman.)
Freeman, Alpheus J., assignor to M. E. Barnhart, Chicago, Ill. Collar-button. No. 1,349,825; Aug. 17; v. 277; p. 455.
Freeman, Arthur E., Toronto, Ontario, Canada. Release-hook. No. 1,350,716; Aug. 24; v. 277; p. 675.
Freeman, Arthur J., Alameda, assignor to O. Adams, San Francisco, Calif. Sign-exhibiting machine. No. 1,329,705; Feb. 3; v. 271; p. 67.
Freeman, Charles F., *et al.*, trustees. (See Freeman, Louis G., assignor.)
Freeman-Daughaday Co. (See Le Clair, Frank J., assignor.)
Freeman-Daughaday Company. (See Matteson, Frederick R., assignor.)
Freeman, E. H., Electric Company. (See Freeman, E. H., assignor.)
Freeman, Edgar H., Trenton, N. J., assignor to E. H. Freeman Electric Company. Lamp-locking construction. No. 1,326,924; Jan. 6; v. 270; p. 8.
Freeman, George L. (See Freeman, Henry B., G. L., and J.)
Freeman, Henry B., G. L., and J., Wrightstown, Wis. Vehicle. No. 1,355,221; Oct. 12; v. 279; p. 206.
Freeman, James H., Salida, Colo. Flying-machine. No. 1,345,159; June 29; v. 275; p. 940.
Freeman, John. (See Freeman, Henry B., G. L., and J.)
Freeman, John, New York, N. Y. Adjustable mechanism for furniture. No. 1,334,365; Mar. 23; v. 272; p. 572.
Freeman, John M., Hickory, N. C., assignor to Draper Corporation, Hopedale, Mass. Warp stop-motion for looms. No. 1,355,956; Oct. 19; v. 279; p. 389.
Freeman, John W., Monticello, assignor of one-half to W. E. King, Hillsboro, Ga. Lubricating mechanism. No. 1,332,120; Feb. 24; v. 271; p. 640.
Freeman, Jones L., assignor of two-fifths to E. H. Hendricks, Philadelphia, Pa. Chimney. No. 1,342,329; June 1; v. 275; p. 140.
Freeman, L. M. (See Elliott, Alexander T., assignor.)
Freeman, Ladbrook H., assignor, by mesne assignments, to The First Trust & Savings Company, trustee, Cleveland, Ohio. Ironing-machine. No. 1,329,519; Feb. 3; v. 271; p. 33.
Freeman, Ladbrook H., assignor, by mesne, assignments, to The First Trust & Savings Company, Cleveland, Ohio, trustee. Ironing-machine. No. 1,336,427; Apr. 13; v. 273; p. 196.
Freeman, Louis G., assignor to L. G. Freeman and C. F. Freeman, trustees, Cincinnati, Ohio. Heel-breast-trimming machine. No. 1,354,037; Sept. 28; v. 278; p. 595.
Freeman, Ogden A., Rockwood, Colo. Rotary vegetable-slicer. No. 1,341,894; June 1; v. 275; p. 55.
Freeman, Robert F., assignor to American Conduit Company, East Chicago, Ind. Tube-forming machine. No. 1,335,432; Mar. 30; v. 272; p. 833.
Freeman, Rufus A., Flushing, N. Y. Making articles from sheet-rubber. No. 1,340,882; May 25; v. 274; p. 623.
Freeman, Rufus A., Flushing, N. Y., assignor to I. B. Kleinert Rubber Company. Method of and apparatus for making rubber articles. No. 1,340,883; May 25; v. 274; p. 623.
Freeman, Rufus A., Flushing, N. Y. Machine for making sheet-rubber articles. No. 1,340,884; May 25; v. 274; p. 624.
Freeman, Russell M., Detroit, Mich. Foldable body for motor-vehicles. No. 1,329,894; Feb. 3; v. 271; p. 108.
Freeman, Russell M., Detroit, Mich. Convertible vehicle-body. No. 1,353,157; Sept. 21; v. 278; p. 377.
Freeman, Thomas H., Lynch Mines, Ky. Process and instrumentality for making horseshoes. No. 1,360,204; Nov. 23; v. 280; p. 738.
Freeman, Walter F., Pittsfield, Mass. Trolley-harp extension. No. 1,357,630; Nov. 2; v. 280; p. 81.
Freeman, William F. (See Smith, Stanley G., assignor.)
Freeman, Willard S., New York, N. Y. Holder for carbon-sheets. No. 1,347,692; July 27; v. 276; p. 644.
Freeman, William A., Hamilton, Ontario, Canada. Door-latch. No. 1,337,447; Apr. 20; v. 273; p. 465.
Freer, R. B. (See Mitchell, R. A., and Emerick, assignors.)
Freer, Phelps M., Detroit, Mich. Internal-combustion engine. No. 1,331,749; Feb. 24; v. 271; p. 570.
Freet, Guy L., Altoona, Pa. Copy-holding and line indicating device. No. 1,333,803; Mar. 16; v. 272; p. 420.
Freeth, Francis A., Sandiway, and H. E. Cocksedge, London, England. Removal of sodium sulfate from solution. No. 1,343,443; June 15; v. 275; p. 475.
Freeze, Green, assignor of one-half to J. Draper, Clifford, Ill. Door-operating device. No. 1,361,707; Dec. 7; v. 281; p. 146.
Freidrich, Ernest G., Indianapolis, Ind. Sanitary toilet. No. 1,346,311; July 13; v. 276; p. 256.
Freije, Alexander T. (See Cook, T. E., and Freije.)
Freikenbohm, Henry, *et al.* (See Hohmann, Adolph, assignor.)
Freile, Bruce, Bogota, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Button. No. 1,333,015; Mar. 9; v. 272; p. 212.
Freiman, Joseph A., *et al.* (See Sussis, Bernhard A., assignor.)
Freimark, Otto, Martin, Ohio. Rail-joint. No. 1,327,541; Jan. 6; v. 270; p. 124.
Freitag, Knud, J. W. and H. D. Ainsworth, assignors to F. A. B. Manufacturing Co., San Francisco, Calif. Pump overflow-pan. No. 1,340,534; May 18; v. 274; p. 487.
Freilinghuysen, George G., Morris county, N. J., assignor to Steel Utilities, Incorporated. Distance-determining mechanism for metal-working machines. No. 1,331,493; Feb. 24; v. 271; p. 522.
Fremaux, Edward C., Rayne, La. Record-cabinet. No. 1,350,146; Aug. 17; v. 277; p. 517.
French, Albert F., Detroit, Mich. Filler composition. No. 1,352,741; Sept. 14; v. 278; p. 235.
French, Alfred W., Piqua, Ohio. Expressing apparatus. No. 1,327,093; Jan. 6; v. 270; p. 40.
French, Alfred W., Piqua, Ohio. Press-plate. No. 1,355,136; Oct. 12; v. 279; p. 188.
French, Alfred W., Piqua, Ohio. Expressing apparatus. No. 1,360,205; Nov. 23; v. 280; p. 739.
French, Alfred W., and C. R. Smith; said Smith assignor to French Oil Mill Machinery Co. and said French, Piqua, Ohio. Cage-press expressing apparatus. No. 1,360,206; Nov. 23; v. 280; p. 739.
French, Arthur S. D., Bixby, Okla. Pump-jack. No. 1,335,960; Apr. 6; v. 273; p. 49.
French Battery & Carbon Company. (See Ford, Joseph C., assignor.)
French Battery & Carbon Co. (See Graves, John, assignor.)
French Battery & Carbon Co. (See Ruhoff, Otto E., assignor.)
French Battery & Carbon Company. (See Weiss, Joseph W., assignor.)
French, Charles E., *et al.* (See Heideman, Fred J., assignor.)
French, Charles L., Cambridge, Mass. Storage apparatus for liquids. No. 1,327,990; Jan. 13; v. 270; p. 269.
French, Daniel E. (See Holmes, Ephraim M., assignor.)
French, Frank H., Preston, Iowa. Tandem disk harrow. No. 1,337,448; Apr. 20; v. 273; p. 465.
French, George M., and W. B. Pavey, assignors to Economy Engineering Company, Chicago, Ill. Lifting device. No. 1,349,450; Aug. 10; v. 277; p. 309.
French, George M., and W. B. Pavey, assignors to Economy Engineering Company, Chicago, Ill. Elevating and conveying apparatus. No. 1,360,917; Nov. 30; v. 280; p. 946.
French, Harry F. (See Benner, R. C., and French.)
French, Harry F., assignor, by mesne assignments, to National Carbon Company, Inc., Fremont, Ohio. Electric battery. No. 1,357,160; Oct. 26; v. 279; p. 672.
French, Harry F., Freemont, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc. Electric battery. (Reissue.) No. 14,984; Nov. 16; v. 280; p. 551.
French, Harry F., Fremont, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc. Making battery-anodes. No. 1,359,244; Nov. 16; v. 280; p. 503.
French & Hecht. (See Einfeldt, Ernest E., assignor.)
French, Henry G., Schenectady, N. Y., assignor to General Electric Company. Electric switch. No. 1,337,895; Apr. 20; v. 273; p. 550.
French, Horatio B., Keene, Tex. Irrigating apparatus. No. 1,355,222; Oct. 12; v. 279; p. 206.
French, James B., Jamaica, N. Y. Driving connection. No. 1,332,823; Mar. 2; v. 272; p. 124.
French, James C., Kenosha, Wis., assignor to F. C. Austin, Chicago, Ill. Breast-cutter excavating-machine. No. 1,329,591; Feb. 3; v. 271; p. 46.
French, James C., assignor to F. C. Austin, Chicago, Ill. Machine for handling coal or other materials. No. 1,357,318; Nov. 2; v. 280; p. 23.
French, John B., St. Louis, Mo. Combined dirigible airship and automobile. No. 1,329,393; Feb. 3; v. 271; p. 9.
French, Morgan C., Craig, Colo. Plow. No. 1,333,969; Mar. 16; v. 272; p. 451.
French, Morgan C., Craig, Colo. Plow. No. 1,333,970; Mar. 16; v. 272; p. 451.
French, Morgan C., Craig, Colo. Brush-plow. No. 1,362,934; Dec. 21; v. 281; p. 484.
French, Morris, Waco, Tex., and M. E. Miller, Washington, D. C. Composing and typecasting machine. No. 1,362,860; Dec. 21; v. 281; p. 471.
French Oil Mill Machinery Co., The. (See Barton, Kirtland C., assignor.)
French Oil Mill Machinery Co. *et al.* (See French, A. W., and Smith, assignors.)
Frengle, Fred, Cotati, Calif. Rotary sheet-metal cutter. No. 1,353,526; Sept. 21; v. 278; p. 449.
Frensdorf, Herman R., Gibbs City, Mich. Fishing-tackle. No. 1,339,189; May 4; v. 274; p. 100.

Digitized by Google

Frentzel, Heinrich A. Th., Berlin, Germany. Device for rolling-in tubes. No. 1,362,935; Dec. 21; v. 281; p. 484.

Fretter, Nathan F., Cleveland, Ohio. Cut-off machine. No. 1,348,635; Aug. 3; v. 277; p. 98.

Fretter, Nathan F., Cleveland, Ohio. Tool for cutting tubes and the like. No. 1,348,636; Aug. 3; v. 277; p. 98.

Freud, Joseph, Chicago, Ill. Conveying mechanism. No. 1,330,524; Feb. 10; v. 271; p. 252.

Freund, Herman R., assignor to Intertype Corporation, Brooklyn, N. Y. Matrix for typographical machines. No. 1,328,146; Jan. 18; v. 270; p. 299.

Freund, Herman R., assignor of one-half to F. A. Daley, Brooklyn, N. Y. Apparatus for casting type-bars. No. 1,332,824; Mar. 2; v. 272; p. 124.

Freund, Jacob de S., Beaver, assignor to American Cement Tile Manufacturing Company, Pittsburgh, Pa. Roof and tiles therefor. No. 1,329,657; Feb. 3; v. 271; p. 58.

Freundt, Louis J., Chicago, Ill., assignor to American Can Company, New York, N. Y. Shipping and dispensing container. No. 1,351,900; Sept. 7; v. 278; p. 38.

Frey, A. J., and F. S. Hyatt, assignors to Brass Goods M'f'g Co., Brooklyn, N. Y. Tube-compressor. No. 1,357,551; Nov. 2; v. 280; p. 65.

Frey, August J., Brooklyn, N. Y. Flexible-tubing compressor. No. 1,359,980; Nov. 23; v. 280; p. 695.

Frey, Charles P. (See Brown, R. P., and Frey.)

Frey, Charles P., and F. Wagner, Philadelphia, Pa. Compensating device for measuring instruments. No. 1,363,964; Dec. 28; v. 281; p. 724.

Frey, George E., Steubenville, assignor of one-half to R. E. Snider, Mingo Junction, Ohio. Rail-chair. No. 1,328,917; Jan. 27; v. 270; p. 510.

Frey, George N., Pasadena, Calif. Circuit-breaker terminal. No. 1,332,172; Feb. 24; v. 271; p. 649.

Frey, Hannah H., administratrix. (See Frey, Herbert H.)

Frey, Henry J., Palmyra, Mo. Filter. No. 1,329,462; Feb. 3; v. 271; p. 28.

Frey, Herbert H., deceased, Chicago, Ill.; H. H. Frey, administratrix. Cushion. No. 1,361,453; Dec. 7; v. 281; p. 96.

Frey, John C., Middletown, N. Y., assignor to Ideal Wrapping Machine Company. Conveyer-belt. No. 1,339,646; May 11; v. 274; p. 262.

Frey, Oscar, New York, N. Y. Perch. No. 1,331,908; Feb. 24; v. 271; p. 601.

Frey, Peter F., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Electric conductor. No. 1,327,542; Jan. 6; v. 270; p. 124.

Frey, Richard. (See Maag, M., and Frey.)

Frey, Sigmund, assignor to Woolwine Metal Products Company, Los Angeles, Calif. Holder for containers. No. 1,337,010; Apr. 13; v. 273; p. 308.

Freyer, Walter J., London, England. Air-tight tin and canister. No. 1,333,910; Mar. 16; v. 272; p. 440.

Freygang, Walter H., Weehawken, W. Kidde, Montclair, and B. G. Worth, West Orange, N. J., assignors to W. Kidde & Company. Marine fire-indicating system. No. 1,343,911; June 22; v. 275; p. 633.

Freyholtz, Paul, Fairfax, Minn. Clothespin. No. 1,348,102; July 27; v. 276; p. 726.

Freyssinet, Eugène, assignor to Societe des Navires en Ciment Armé, Paris, France. Molding concrete ships. No. 1,349,826; Aug. 17; v. 277; p. 455.

Freytag, Ferdinand, San Rafael, Calif. Apparatus for taking serial roentgenograms. No. 1,357,391; Nov. 2; v. 280; p. 36.

Freytag, George, San Francisco, Calif. Box-toe material for footwear. No. 1,361,246; Dec. 7; v. 281; p. 52.

Frias, Ricardo. (See Canale, M. A., and Frias.)

Frick, Benjamine H., Ada, Okla. Reinforced ice-cream tub. No. 1,344,876; June 29; v. 275; p. 886.

Frick Company. (See Barnes, Samuel C., assignor.)

Frick, Frederick F. (See Laist, F., and Frick.)

Frick, Henry H., Fricks, Pa. Set-screw. No. 1,330,792; Feb. 17; v. 271; p. 370.

Frick, John, assignor to Frick and Schlosser Company, Philadelphia, Pa. Coin-controlled dispensing-machine. No. 1,356,350; Oct. 19; v. 279; p. 467.

Frick, Orlando C., assignor to Smalley Manufacturing Company, Manitowoc, Wis. Feed-mixing attachment for feed-cutters. No. 1,355,137; Oct. 12; v. 279; p. 189.

Frick-Reid Supply Company. (See Francis, Vincent H., assignor.)

Frick, Robert, Chicago, Ill. Oiler. No. 1,357,284; Nov. 2; v. 280; p. 16.

Frick and Schlosser Company. (See Frick, John, assignor.)

Frick, William, assignor to Cliff Manufacturing Works, Inc., New York, N. Y. Diaphragm and making same. No. 1,355,552; Oct. 12; v. 279; p. 270.

Fricke, Gilbert V. B. (See Henry and Fricke.)

Fricker, Anthony, Cleveland, Ohio. Snowplow. No. 1,345,438; July 6; v. 276; p. 22.

Fried, Harry, Buffalo, N. Y. Match-vending machine. No. 1,357,631; Nov. 2; v. 280; p. 81.

Fried. Krupp Aktiengesellschaft. (See Bartholdy, Max, assignor.)

Fried. Krupp Aktiengesellschaft. (See Frieling, Otto, assignor.)

Fried. Krupp Aktiengesellschaft. (See Finckh, Fritz, assignor.)

Fried. Krupp Aktiengesellschaft. (See Hartwig, Rudolf, assignor.)

Fried. Krupp Aktiengesellschaft. (See Käsaner, Alfred, assignor.)

Fried. Krupp Aktiengesellschaft. (See Kirchoff, Huga, assignor.)

Fried. Krupp Aktiengesellschaft. (See Krüger, Paul, assignor.)

Fried. Krupp Aktiengesellschaft. (See Lorenz, Rudolf, assignor.)

Fried. Krupp Aktiengesellschaft. (See Schmücking, August, assignor.)

Fried Krupp Aktiengesellschaft. (See Schön, Ludwig, assignor.)

Fried. Krupp Aktiengesellschaft. (See Ulrich, Wilhelm, assignor.)

Fried, Krupp Atkiengesellschaft. (See Wilck, Ulrich, assignor.)

Fried. Krupp Aktiengesellschaft Germaniawerft. (See Techel, Hans, assignor.)

Fried, Marcus, Lawrence, Mass. Tipping hand-tool. No. 1,328,508; Jan. 20; v. 270; p. 404.

Friedburg, Lewis H. (See Moody, H. R., and Friedburg.)

Friede, Samuel M. (See Hutchinson, W. B., and Friede.)

Fridell, Willis M., Washington, D. C. Centripetal apparatus. No. 1,359,048; Nov. 16; v. 280; p. 46.

Friedley-Voshardt Co. (See Voshardt, Herman F., assignor.)

Friedline, Frederick I., Kentland, Ind. Corn-picker. No. 1,338,728; May 4; v. 274; p. 14.

Friedman, Bernhard, New York, and S. Friedman, Brooklyn, N. Y. Tumbling apparatus for furs. No. 1,343,816; June 15; v. 275; p. 549.

Friedman, Charles. (See Rudolph, Raymond H., assignor.)

Friedman, Israel, Washington, D. C., and D. B. Galt, Riverdale, Md.; said Galt assignor to said Friedman. Gagepin for tympans. No. 1,363,768; Dec. 28; v. 281; p. 687.

Friedman, Jack, New York, N. Y. Wood and metal polish. No. 1,343,259; June 15; v. 275; p. 439.

Friedman, Joseph. (See Lundin, S. W., and Friedman.)

Friedman, Louis, New York, N. Y. Demountable rim. No. 1,332,121; Feb. 24; v. 271; p. 640.

Friedman, Louis, New York, N. Y. Wearing-apparel. No. 1,361,320; Dec. 7; v. 281; p. 68.

Friedman, Louis, New York, N. Y. Waistband and the like. No. 1,363,107; Dec. 21; v. 281; p. 518.

Friedman, Mitchell J., Washington, D. C. Calendar. No. 1,328,880; Jan. 27; v. 270; p. 492.

Friedman, Samuel. (See Friedman, Bernard and S.)

Friedman, Samuel W., Birmingham, Ala. Detachable trunk-rack for automobiles. No. 1,337,647; Apr. 20; v. 273; p. 502.

Friedman, William L., Oakland, Calif. Means for viewing pictures in relief. No. 1,358,685; Nov. 9; v. 280; p. 351.

Friedrich, Ernest G., Indianapolis, Ind. Sterilizing toilet. No. 1,333,073; Mar. 9; v. 272; p. 223.

Friedrich, Gustav E., Grand Rapids, Mich. Machine for scouring cereals. No. 1,337,127; Apr. 13; v. 273; p. 330.

Friedrichs, Frank. (See Trump, E. N., and Friedrichs.)

Friedricks, George A., *et al.* (See Decker, George W., assignor.)

Friel, Claude L., Chicago, Ill. Printing-press. No. 1,347,627; July 27; v. 276; p. 631.

Friel, Patrick H., assignor to A. Terrell, Kenosha, Wis. Metal furniture constructed from lock-seam tubing. No. 1,337,128; Apr. 13; v. 273; p. 330.

Friel, Patrick A., Bayonne, N. J. Hanger-block. No. 1,350,964; Aug. 24; v. 277; p. 722.

Frieling, Otto, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Apparatus applicable to railway-guns for transferring ammunition from an ammunition-wagon. No. 1,363,862; Dec. 28; v. 281; p. 705.

Frieman, Jacob G., Chicago, Ill. Vehicle-signal. No. 1,363,863; Dec. 28; v. 281; p. 706.

Friend, Clara, Medicine Hat, Alberta, Canada. Mirror. No. 1,356,441; Oct. 19; v. 279; p. 484.

Friend, Evert T., Wichita, Kans. Direction-indicator. No. 1,361,242; Dec. 7; v. 281; p. 52.

Friend, John L., Wilkinsburg, Pa. Toy. No. 1,348,860; Aug. 10; v. 277; p. 193.

Friend, Oscar J., Caruthersville, Mo. Cotton-picking sack. No. 1,355,740; Oct. 12; v. 279; p. 305.

Friendly, Herbert M., and A. E. Burns, Portland, Oreg.; said Burns assignor to said Friendly. Toll-telephone-switching apparatus. No. 1,342,260; June 1; v. 275; p. 127.

Friendly, Herbert M., Portland, Oreg. Signal system and apparatus. No. 1,358,720; Nov. 16; v. 280; p. 402.

Fries, Charles R. (See Fries, Winslow J., C. R., and W. P.)

Fries, Edward, Moores, Pa. Box for forming molds. No. 1,345,160; June 29; v. 275; p. 940.

Fries, Edward, Moores, Pa. Pit-flask for castings. No. 1,345,161; June 29; v. 275; p. 940.

Digitized by Google

Fries, Edward, Moores, Pa. Preparing molds for casting. No. 1,345,162; June 29; v. 275; p. 940.
Fries, Edward A. (See Randall, L. L., and Fries.)
Fries, Edward A., assignor to Randall & Fries, Boston, Mass. Machine for turning plastic material. No. 1,352,443; Sept. 14; v. 278; p. 175.
Fries, Frank J., Pacific, Mo. Plow. No. 1,361,454; Dec. 7; v. 281; p. 96.
Fries, John W., Winston-Salem, N. C. Method and product for dyeing textile fabric. No. 1,341,637; June 1; v. 275; p. 5.
Fries, William P. (See Fries, Winslow J. and W. P.)
Fries, Winslow J., C. R., and W. P., Philadelphia, Pa. Culinary device. No. 1,338,129; Apr. 27; v. 273; p. 664.
Friesen, George E., North Yakima, Wash. Vacuum gasolene-pump. No. 1,351,510; Aug. 31; v. 277; p. 893.
Friesen, Henry M., Rush Lake, Saskatchewan, Canada. Wagon-brake. No. 1,359,350; Nov. 16; v. 280; p. 525.
Friesen, John, Lehigh, Kans. Tire-guard. No. 1,345,163; June 29; v. 275; p. 941.
Friess, Gustav A., Chicago, Ill. Cylinder-adjusting mechanism for printing-presses. No. 1,330,793; Feb. 17; v. 271; p. 370.
Frimard, Peter A., Wilmette, assignor to The Burton Page Company, Chicago, Ill. Udder attachment for milking-machines. No. 1,348,401; Aug. 3; v. 277; p. 53.
Fripp, Francis E. B., Brockenhurst, England, assignor to C. H. Gordon, Christchurch, New Zealand. Apparatus for cutting tapered elliptical holes. No. 1,342,261; June 1; v. 275; p. 127.
Frisbie, George W., Scranton, Pa. Bobbin spindle and support. No. 1,358,630; Nov. 9; v. 280; p. 340.
Frisbie, Howard I., Anaconda, Mont. Electric precipitator. No. 1,329,237; Jan. 27; v. 270; p. 569.
Frisbie, James M., and E. C. Tilton, Thompson Falls, Mont. Lineman's climber. No. 1,335,945; Apr. 6; v. 273; p. 45.
Frisbie, Ray A., New York, N. Y., assignor to General Motors Corporation, Detroit, Mich. Adjustable lamp-support for motor-vehicles. No. 1,339,449; May 11; v. 274; p. 224.
Frisble, William J., assignor to Justrite Manufacturing Company, Chicago, Ill. Lamp-holder. No. 1,349,506; Aug. 17; v. 277; p. 495.
Frisch, August, Zurich, Switzerland. Method and arrangement for measuring the power of reciprocating engines. No. 1,355,661; Oct. 12; v. 279; p. 290.
Frisk, Erik J., Waukegan, Ill. Railway-spike. No. 1,354,737; Oct. 5; v. 279; p. 57.
Frisseli, Frank H. (See Krenz, Rudolph, assignor.)
Frisz, George E., and J. D. Wiltshire, Indianapolis, Ind. Wheel-puller. No. 1,328,663; Jan. 20; v. 270; p. 432.
Frisz, George E., and J. D. Wiltshire, Indianapolis, Ind.; said Wiltshire assignor to said Frisz. Pulling implement. No. 1,347,809; July 27; v. 276; p. 668.
Fritch, Eugene C., Schenectady, N. Y. Drill-stand. No. 1,357,041; Oct. 26; v. 279; p. 648.
Fritsche, John, Philadelphia, Pa. Dispensing-cabinet. No. 1,328,664; Jan. 20; v. 270; p. 432.
Fritsche, John, assignor to Horn & Hardart Company, Philadelphia, Pa. Apparatus for dispensing liquids. No. 1,356,816; Oct. 26; v. 279; p. 605.
Fritter, Nellie E., administratrix. (See Wallas, John L., assignor.)
Fritter, William C. (See Wallas, John L., assignor.)
Fritts, Jacob F., Forty Fort borough, assignor to Wales Adding Machine Company, Wilkes-Barre, Pa. Calculating-machine. No. 1,333,167; Mar. 9; v. 272; p. 240.
Fritz, Edith, Brooklyn, N. Y. Paper-file. No. 1,354,819; Oct. 5; v. 279; p. 75.
Fritz, John H. (See Green, J. R., and Fritz.)
Fritz, Lewis G., McCutchenville, Ohio, and A. A. Herzberger, Indianapolis, Ind. Thread-cutter. No. 1,348,276; Aug. 3; v. 277; p. 29.
Fritz, Louis, Los Angeles, Calif. Rail-fastening device. No. 1,354,292; Sept. 28; v. 278; p. 648.
Fritz, William, Philadelphia, Pa. Clutch. No. 1,351,240; Aug. 31; v. 277; p. 838.
Fritze, Ewald A. (See Montague, Harold E., assignor.)
Fritze, Ferdinand A., Jr. (See Buehl, J. L., and Fritze.)
Fritze, Ferdinand A., Jr. (See Kenniker, N. O., and Fritze.)
Fritze, William B. (See Byers, A. C., and Fritze.)
Fritzsch, Bernhard, Cincinnati, Ohio. Leatheroid and making the same. No. 1,334,297; Mar. 23; v. 272; p. 559.
Fritzsche, George G. H., Brooklyn, N. Y. Binder. No. 1,327,992; Jan. 13; v. 270; p. 269.
Fritzsche, George H., Brooklyn, assignor to Taplex Corporation, New York, N. Y. Fuel and producing same. No. 1,342,799; June 8; v. 275; p. 286.
Fritzsche, Hermann. (See Anderwert, E. and Fritzsche.)
Fritzsche, Hermann, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Diazotizable dyestuffs easily soluble in water. No. 1,362,936; Dec. 21; v. 281; p. 485.
Frizzell, Ralph E. (See Hendrickson, J. H., and Frizzell.)
Frodsham, John, Berkeley, Calif. Rotary pump. No. 1,329,895; Feb. 3; v. 271; p. 103.
Froehlich, Theodore H., New York, N. Y. Portable lamp. No. 1,333,302; Mar. 9; v. 272; p. 265.
Froelich, John, St. Paul, Minn. Internal-combustion engine. No. 1,332,211; Mar. 2; v. 272; p. 6.
Froelich, Russell E., St. Louis, assignor of one-sixth to M. F. Parker, Webster, Mo. Regulating device for timing camera-shutters relative to flash-lights. No. 1,332,173; Feb. 24; v. 271; p. 649.
Frog Switch & Manufacturing Company, The. (See Seal, Voorhees N., assignor.)
Froggatt, George A. (See Froggatt, George H., G. A., and T. E.)
Froggatt, George H., G. A., and T. E., Columbus, Ohio. Recording device. No. 1,338,647; Apr. 27; v. 273; p. 760.
Froggatt, Thomas E. (See Froggatt, George H., G. A., and T. E.)
Frogh, Fred A., St. Paul, Minn. Tractor. No. 1,347,502; July 27; v. 276; p. 606.
Frohman, Edward D., Pittsburgh, Pa. Refractory material. No. 1,327,758; Jan. 13; v. 270; p. 226.
Frohner, Edward H., Youngstown, Ohio, assignor to Standard Oilcloth Co., New York, N. Y. Method of and apparatus for treating oil and obtaining by-products therefrom. No. 1,329,076; Jan. 27; v. 270; p. 539.
Frohwerk, Eduard, Kansas City, Kans. Non-kick device. No. 1,348,989; Aug. 10; v. 277; p. 218.
Frome, John H., Philadelphia, Pa. Educational appliance. No. 1,329,896; Feb. 3; v. 271; p. 103.
Frommann, Franklin A., Chicago, Ill. Vehicle-wheel. No. 1,348,165; Aug. 3; v. 277; p. 6.
Fromuth, August G., Philadelphia, Pa., assignor to Alva Carpet & Rug Company. Producing tapestry pile fabrics. No. 1,330,859; Feb. 17; v. 271; p. 382.
Fromuth, August G., Philadelphia, Pa., assignor to Alva Carpet & Rug Company. Yarn and fabric and producing. No. 1,336,516; Apr. 13; v. 273; p. 213.
Fromuth, August G., Philadelphia, Pa., assignor to Alva Carpet & Rug Company. Pile fabric and yarn and making. No. 1,339,753; May 11; v. 274; p. 282.
Fronczak, Antoni, Wilkes-Barre, Pa. Harrow. No. 1,329,118; Jan. 27; v. 270; p. 548.
Fronek, Bohumil, Chicago, Ill. Hat-fastener. No. 1,347,267; July 20; v. 276; p. 504.
Fronk, Antony C., Burley, Idaho. Rotary valve for internal-combustion engines. No. 1,360,107; Nov. 23; v. 280; p. 720.
Froats, Robert O., *et al.* (See Witt, Peter S., assignor.)
Frost, Clinton E., East Cleveland, assignor to The Cleveland Osborn Manufacturing Company, Cleveland, Ohio. Rotary brush. No. 1,347,153; July 20; v. 276; p. 481.
Frost, Elmer, Muskegon Heights, Mich. Lubricator. No. 1,353,951; Sept. 28; v. 278; p. 577.
Frost, Frederick E., Worcester, Mass. Rubber-stamp attachment. No. 1,344,079; June 22; v. 275; p. 665.
Frost, Harvey, & Company. (See Frost, William, assignor.)
Frost, Horace L., Elizabethton, Tenn. Air-pump. No. 1,362,485; Dec. 14; v. 281; p. 245.
Frost, Mollie C. (See Benedict, E. J., and Frost.)
Frost, Robert T., St. Paul, Minn., assignor of one-half to A. E. Johnson, Waterloo, Iowa. Package-opening means. No. 1,343,360; June 15; v. 275; p. 458.
Frost, William, assignor to Harvey Frost & Company, Limited, London, England. Portable vulcanizer. No. 1,360,962; Nov. 30; v. 280; p. 955.
Frothingham, Samuel T., Allston, assignor to Fibre Manufacturing Company, Boston, Mass. Water-closet seat. No. 1,352,058; Sept. 7; v. 278; p. 67.
Froussard, Albert F., St. Louis, Mo. Shoe-pounding machine. No. 1,338,434; Apr. 27; v. 273; p. 721.
Frudden, Conrad E., assignor to Parrett Tractor Company, Chicago, Ill. Change-gear device. No. 1,348,935; Aug. 10; v. 277; p. 208.
Fruehauf Trailer Company. (See Hartwick, Ernest F., assignor.)
Frush, Rolland T., *et al.* (See Fow, Raymond S. C., assignor.)
Fruth, George, Denver, Colo. Tie-retainer. No. 1,361,149; Dec. 7; v. 281; p. 33.
Fry, Albert F. (See Fry, Walter U., assignor.)
Fry, David F., and C. R. Whitton, Northampton, England. Fabric. No. 1,328,623; Jan. 20; v. 270; p. 425.
Fry, H. C., Glass Company. (See Scholes, Samuel R., assignor.)
Fry, H. C., Glass Company. (See Williams, Warren S., assignor.)
Fry, Harry L. (See Sullivan, J. D., and Fry.)
Fry, Harvey E., and W. O. Keiter, Lockport, N. Y. Broom-holder. No. 1,329,394; Feb. 3; v. 271; p. 10.
Fry, Harvey E., and W. O. Keiter, Lockport, N. Y. Powder-puff. No. 1,349,057; Aug. 10; v. 277; p. 231.
Fry, Harvey E., and W. O. Keiter, Lockport, N. Y. Powder-puff. No. 1,358,538; Nov. 9; v. 280; p. 321.
Fry, J. Howard. (See Scholes and Brenner, assignors.)
Fry, Jesse E. (See Dickson, B. H., and Fry.)
Fry, John A., assignor to Detroit Stove Works, Detroit, Mich. Gas-burner. No. 1,342,436; June 8; v. 275; p. 214.
Fry, Sidney, Spreydon, Christchurch, New Zealand. Electrolytic production of oxids in neutral water solutions. No. 1,361,041; Dec. 7; v. 281; p. 12.

Digitized by Google

Fry, Walter U., assignor of one-half to A. F. Fry, Providence, R. I. Collar-holder. No. 1,359,981; Nov. 23; v. 280; p. 695.
Fry, William A., Nashville, Tenn. Combination bed, table, and cabinet. No. 1,334,998; Mar. 30; v. 272; p. 751.
Frye, Daniel M., Jr., Philadelphia, Pa., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Measuring device. No. 1,348,861; Aug. 10; v. 277; p. 193.
Frye, Edwin P., Milburn, W. Va. Invalid's bed. No. 1,345,760; July 6; v. 276; p. 85.
Frye, George H., Havana, Ill. Collapsible wagon-seat. No. 1,335,678; Mar. 30; v. 272; p. 879.
Fryer, Harry. (See Bartlett, O., and Fryer.)
Fryer, Jacob H., Syracuse, N. Y. Permutation-padlock. No. 1,363,582; Dec. 28; v. 281; p. 651.
Fryer, John A., and W. W. Wallace, Tulsa, Okla. Torpedo for shooting oil-wells. No. 1,337,063; Apr. 13; v. 273; p. 318.
Frykman, Oscar, Monessen, Pa. Gas-turbine. No. 1,341,229; May 25; v. 274; p. 691.
Ftacek, Joseph and S., Streator, Ill. Sewing-pliers. No. 1,352,508; Sept. 14; v. 278; p. 188.
Ftacek, Steve. (See Ftacek, Joseph and S.)
Fuchs, Charles, Lorton, Va. Recording device for use by storekeepers. No. 1,355,324; Oct. 12; v. 279; p. 226.
Fuchs, Ernest, Paris, assignor to L. Renault, Billancourt, France. Forging cylinders of engines and similar structures. No. 1,328,276; Jan. 20; v. 270; p. 359.
Fuchs, Ernest, assignor to L. Renault, Billancourt, France. Suspension device for caterpillar-vehicles. No. 1,336,832; Apr. 13; v. 273; p. 274.
Fuchs, Ernest, Paris, assignor to Louis Renault, Billancourt, France. Driving-chain. No. 1,338,293; Apr. 27; v. 273; p. 695.
Fuchs, Ernest, Paris, assignor to L. Renault, Billancourt, France. Forging valves and similar articles. No. 1,351,949; Sept. 7; v. 278; p. 47.
Fuchs, Ernest, assignor to L. Renault, Billancourt, France. Power-transmission device. No. 1,357,769; Nov. 2; v. 280; p. 108.
Fuchs, Ernesto, Guadalajara, Mexico. Surgical and medical instrument. No. 1,363,965; Dec. 28; v. 281; p. 725.
Fuchs, John J., Jr., Benson, Nebr. Piston packing-ring. No. 1,357,392; Nov. 2; v. 280; p. 37.
Fuchs & Lang Manufacturing Company, The. (See Lee, Albert H., assignor.)
Fuel Conservation Company Limited. (See Thomas W., and Mainwaring, assignors.)
Fuel Economy Company. (See Livingstone, Frank M., assignor.)
Fuelling, Franklin C., Roslyn, N. Y. Ironing-board. No. 1,337,512; Apr. 20; v. 273; p. 477.
Fuelling, Louis H., New York, N. Y., assignor to The United States Printing and Lithograph Co., Brooklyn, N. Y. Making embossed designs. No. 1,350,365; Aug. 24; v. 277; p. 606.
Fugate, Harry C., *et al.* (See Powers, Franklin H., assignor.)
Fugina, Arthur R., Louisville, Ky. Renitent railway-rail support. No. 1,329,077; Jan. 27; v. 270; p. 540.
Fuhrmann, Warren. (See Powers, T. B., and Fuhrmann.)
Fuhrmann, Warren. (See Soderstrom, O., and Fuhrmann.)
Fuhrmann, Warren, Westfield, N. J., assignor, by mesne assignments, to Wilkinson Brothers and Company, Incorporated, New York, N. Y. Ribbon-shifting means for calculators. No. 1,352,503; Sept. 14; v. 278; p. 205.
Fujii, Mitsuzo, Tokyo, Japan. Binoculars. No. 1,358,721; Nov. 16; v. 280; p. 403.
Fujita, Kuwakichi, and G. N. Markle, Hazleton, Pa. Burglar-chaser. No. 1,330,698; Feb. 10; v. 271; p. 284.
Fujiura, Motoi, Los Angeles, Calif. Combination fan, compressor, and motor starter. No. 1,333,753; Mar. 16; v. 272; p. 411.
Fukuda, Kinsuke, Tokyo, Japan. Elastic tire. No. 1,352,885; Sept. 14; v. 278; p. 264.
Fulcher Pulp Bottle Company, The. (See Fulcher, William H., assignor.)
Fulcher, William H., assignor to The Fulcher Pulp Bottle Company, Oakland, Calif. Machine for forming pulp hollow ware. No. 1,353,578; Sept. 21; v. 278; p. 460.
Fuld, Katherine B., Baltimore, Md. Toy. No. 1,329,338; Jan. 27; v. 270; p. 587.
Fuld, Katherine B., Baltimore, Md. Toy. No. 1,331,339; Feb. 17; v. 271; p. 472.
Fuld, Katherine B., Baltimore, Md. Toy. No. 1,333,618; Mar. 16; v. 272; p. 385.
Fulda, Edward, New York, N. Y. Metal door construction. No. 1,328,918; Jan. 27; v. 270; p. 510.
Fulda, Edward, New York, N. Y. Uniting vertical plates by electric welding. No. 1,328,919; Jan. 27; v. 270; p. 510.
Fulda, Edward, New York, N. Y. Process and product of electric welding. No. 1,344,125; June 22; v. 275; p. 674.
Fulda, Edward, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Manufacturing metal-spoke wheels. No. 1,340,945; May 25; v. 274; p. 635.
Fulford Mfg. Co. (See Forslund, John E., assignor.)
Fulgni, Benedict, and C. J. Muhsgnug, New York, N. Y. Automobile-reflector dimmer. No. 1,336,951; Apr. 13; v. 273; p. 297.
Full, Peter, Vermilion, Ohio. Ship's ladder. No. 1,349,125; Aug. 10; v. 277; p. 245.
Fullbright, Thomas, St. Louis, Mo. Wire-mill. No. 1,350,307; Aug. 24; v. 277; p. 594.
Fullenlove, McClellan C., assignor to Perfect Projection Shutter Company, Inc., Louisville, Ky. Motion-picture shutter. No. 1,353,527; Sept. 21; v. 278; p. 449.
Fullenweider, Henry N., Waveland, Ind. Shock-absorbing mechanism. No. 1,332,391; Mar. 2; v. 272; p. 42.
Fuller, Ada G., Washington, D. C. Collapsible bed-rest. No. 1,361,042; Dec. 7; v. 281; p. 12.
Fuller, Allen R., Boston, Mass. Making fibers. No. 1,357,206; Oct. 26; v. 279; p. 680.
Fuller, Alstyn. (See Gibson, B. and Fuller.)
Fuller, Charles D., Latrobe, Pa. Reversible open-hearth furnace. No. 1,362,412; Dec. 14; v. 281; p. 331.
Fuller, Charles D., Latrobe, Pa., assignor of forty per cent. to A. S. Henry, New York, N. Y. Furnace. No. 1,356,859; Oct. 26; v. 279; p. 613.
Fuller, Charles H., assignor to Fuller Davit Company, Portland, Oreg. Boat-launching apparatus. No. 1,339,647; May 11; v. 274; p. 262.
Fuller, Charles M., Hawthorne, assignor to H. R. Cousins, Hanford, Calif. Traction-belt tractor. No. 1,330,258; Feb. 10; v. 271; p. 201.
Fuller, Clarence D., Utica, N. Y. Muffler. No. 1,360,517; Nov. 30; v. 280; p. 868.
Fuller, Clarence W., Yonkers, N. Y. Dental massage and polishing appliance. No. 1,343,713; June 15; v. 275; p. 529.
Fuller Davit Company. (See Fuller, Charles H., assignor.)
Fuller, Duane P., Carlisle, Wash. Operating mechanism for whistles. No. 1,328,252; Jan. 13; v. 270; p. 319.
Fuller, Earl F., *et al.* (See Akin, Delbert A., assignor.)
Fuller, Eugene, Providence, R. I. Lacing-tip. No. 1,349,827; Aug. 17; v. 277; p. 455.
Fuller, Eugene, Providence, R. I. Bed-bottom. No. 1,353,579; Sept. 21; v. 278; p. 460.
Fuller, Frank T., *et al.* (See Manheimer, Louis B., assignor.)
Fuller, Franz A., assignor to The J. E. Mergott Company, Newark, N. J. Perpetual calendar. No. 1,327,317; Jan. 6; v. 270; p. 81.
Fuller, Franz A., assignor to The J. E. Mergott Company, Newark, N. J. Making bag-frames. No. 1,334,746; Mar. 28; v. 272; p. 644.
Fuller, Franz A., assignor to The J. E. Mergott Company, Newark, N. J. Bag-fastener. No. 1,361,378; Dec. 7; v. 281; p. 79.
Fuller, Fred E., Portland, Oreg. Commutator-grinder. No. 1,352,805; Sept. 14; v. 278; p. 249.
Fuller, Frederick C., Toledo, Ohio. Insulating screen or curtain. No. 1,361,077; Dec. 14; v. 281; p. 246.
Fuller, Frederick L., Bridgeport, Conn., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,336,693; Apr. 13; v. 273; p. 247.
Fuller, Frederick L., assignor to The National Cash Register Company, Dayton, Ohio. Multiple-ticket-issuing register. No. 1,340,221; May 18; v. 274; p. 428.
Fuller, Gaius C., Cincinnati, Ohio, assignor, by mesne assignments, to The Pistolite Manufacturing Company. Gaslighting-pistol. No. 1,358,722; Nov. 16; v. 280; p. 403.
Fuller, George E., Chicago, Ill. Sign. No. 1,336,517; Apr. 13; v. 273; p. 213.
Fuller, George F. Worcester, Mass. Method and apparatus for controlling furnace temperature. No. 1,339,190; May 4; v. 274; p. 100.
Fuller, Harvey R., Kirkville, Mo. Ruling-pen. No. 1,348,637; Aug. 3; v. 277; p. 98.
Fuller, James A., Lemoyne, Pa. Oil-can heater. No. 1,363,966; Dec. 28; v. 281; p. 725.
Fuller, James W., Catasauqua, Pa. Pulverizing-mill. No. 1,358,837; Nov. 16; v. 280; p. 426.
Fuller, James W., Catasauqua, assignor to Fuller-Lehigh Company, Fullerton, Pa. Sampling device for pulverizer-mills. No. 1,337,697; Apr. 20; v. 273; p. 512.
Fuller, James W., Catasauqua, Pa., assignor to Fuller-Lehigh Company. Pulverizer-mill. No. 1,345,082; June 29; v. 275; p. 925.
Fuller, Lawrence C., Kalamazoo, Mich. Disk-clutch. No. 1,340,885; May 25; v. 274; p. 624.
Fuller-Lehigh Company. (See Fuller, James W., assignor.)
Fuller, Leonard F. (See Marx, R. G., and Fuller.)
Fuller, Leonard F., assignor to Federal Telegraph Company, San Francisco, Calif. Radiotelegraphy. No. 1,330,254; Feb. 10; v. 271; p. 201.
Fuller, Leonard F., assignor to Federal Telegraph Company, San Francisco, Calif. Radiotelegraphy. No. 1,336,833; Apr. 13; v. 273; p. 274.
Fuller, Leonard F., assignor to Federal Telegraph Company, San Francisco, Calif. Radiotelegraphy. No. 1,339,191; May 4; v. 274; p. 100.
Fuller, Leonard F., Palo Alto, assignor to Federal Telegraph Company, San Francisco, Calif. Radiotelegraphy. No. 1,352,059; Sept. 7; v. 278; p. 67.

Digitized by Google

Fuller, Leonard F., assignor to Federal Telegraph Company, San Francisco, Calif. Radiotelegraphy. No. 1,352,886; Sept. 14; v. 278; p. 865.
Fuller, Leonard F., Palo Alto, assignor to Federal Telegraph Company, San Francisco, Calif. Radiotelegraphy. No. 1,358,143; Nov. 9; v. 280; p. 242.
Fuller, Leonard F., Palo Alto, assignor to A. Taylor, San Francisco, Calif. Radiotelegraphy. No. 1,358,144; Nov. 9; v. 280; p. 242.
Fuller, Lexie L., Pine Bluff, Ark. Time-controlled switch. No. 1,340,039; May 11; v. 274; p. 336.
Fuller, Louis F., Girard, Kans. Automobile attachment. No. 1,338,915; May 4; v. 274; p. 49.
Fuller, Mzl, Chattanooga, Tenn. Deck or covering for vehicles. No. 1,359,686; Nov. 23; v. 280; p. 636.
Fuller, Norman A., Yamhill, Oreg. Loader. No. 1,337,896; Apr. 20; v. 273; p. 550.
Fuller, Orton, Chautauqua, Kans. Cultivator attachment. No. 1,334,994; Mar. 30; v. 272; p. 752.
Fuller, Rodolphus, Detroit, Mich. Bust construction. No. 1,350,601; Aug. 24; v. 277; p. 653.
Fuller, Silas S., Lewiston, Me. Clamping device. No. 1,345,358; July 6; v. 276; p. 6.
Fuller, Silas S., Lewiston, Me., assignor to Parker Machine Company, Boston, Mass. Tool-holder. No. 1,355,902; Oct. 19; v. 279; p. 378.
Fullerton, Asa B., Washington, Iowa. Hog-waterer. No. 1,359,885; Nov. 23; v. 280; p. 671.
Fullerton, Frederick W., St. Paul, Minn. Pistol. No. 1,357,393; Nov. 2; v. 280; p. 37.
Fullmer, John H., Buffalo, N. Y. Multiple-tool holder. No. 1,352,949; Sept. 14; v. 278; p. 276.
Fully, Fred G., assignor of forty per cent. to J. H. Dix, Portland, Oreg. Coating composition. No. 1,344,686; June 29; v. 275; p. 850.
Fulname Company, The. (See Lyon, Jesse D., assignor.)
Fulper, William H. (See Case, William W., assignor.)
Fulton, Alfred J., and T. H. Evans, Johnstown, Pa. Loading apparatus. No. 1,362,566; Dec. 14; v. 281; p. 362.
Fulton, Charles, Coffeyville, Kans. Package and article carrier. No. 1,335,888; Apr. 6; v. 273; p. 35.
Fulton Company, The. (See Adams, Arthur J., assignor.)
Fulton Company, The. (See Fulton, Weston M., assignor.) (Reissue.)
Fulton Company, The. (See Giesler, Jean V., assignor.)
Fulton, Dwight W., Davenport, Iowa. Saw-handle. No. 1,334,444; Mar. 23; v. 272; p. 587.
Fulton, Harry L., Pueblo, Colo. Auto-service bulletin. No. 1,336,739; Apr. 13; v. 273; p. 256.
Fulton Iron Works Company. (See Hurter, Henry, assignor.)
Fulton, Jacob A., Astoria, Oreg. Attachment for hose. No. 1,363,967; Dec. 28; v. 281; p. 725.
Fulton, James J., Guerneville, Calif. Centrifugal clothes-washing machine. No. 1,345,761; July 6; v. 276; p. 85.
Fulton-Kenova Mine Car Company, The. (See Streby, Ray D., assignor.)
Fulton, Le Roy M., Chicago, Ill. Reel. No. 1,353,901; Sept. 28; v. 278; p. 568.
Fulton, Robert H., Los Angeles, Calif. Pipe-wrench. No. 1,327,595; Jan. 6; v. 270; p. 133.
Fulton, Samuel M., Pomona, Calif. Pump-head. No. 1,357,394; Nov. 2; v. 280; p. 37.
Fulton, Sherman J., Cleveland, Ohio. Lawn-trimmer. No. 1,331,750; Feb. 24; v. 271; p. 571.
Fulton Specialty Co. (See Russo, Michael, assignor.)
Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Tank-regulator. No. 1,328,277; Jan. 20; v. 270; p. 360.
Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Damper. No. 1,331,100; Feb. 17; v. 271; p. 429.
Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Dispensing device. No. 1,332,392; Mar. 2; v. 272; p. 42.
Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Trap. No. 1,337,064; Apr. 13; v. 273; p. 319.
Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Automatic tank regulator. (Reissue.) No. 14,843; Apr. 20; v. 273; p. 568.
Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Humidifying device. No. 1,338,916; May 4; v. 274; p. 49.
Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Means for attaching handles to valve-stems. No. 1,340,604; May 18; v. 274; p. 500.
Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Pressure-gage. No. 1,344,840; June 22; v. 275; p. 716.
Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Incased radiator. No. 1,345,591; July 6; v. 276; p. 52.
Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Heat-regulating means. No. 1,349,058; Aug. 10; v. 277; p. 231.
Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Radiator-casing in combination with humidifying devices. No. 1,349,059; Aug. 10; v. 277; p. 232.
Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Temperature-regulator. No. 1,358,071; Nov. 9; v. 280; p. 228.
Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Temperature-regulator. No. 1,358,072; Nov. 9; v. 280; p. 228.
Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Temperature-regulator. No. 1,358,073; Nov. 9; v. 280; p. 229.
Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Ventilating device. No. 1,358,193; Nov. 9; v. 280; p. 252.
Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Temperature-regulator. No. 1,358,723; Nov. 16; v. 280; p. 403.
Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Automobile-heating system. No. 1,358,838; Nov. 16; v. 280; p. 426.
Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Automobile-heating system. No. 1,358,947; Nov. 16; v. 280; p. 448.
Fulton, William H., Pittsburgh, Pa. Light-distributing means. No. 1,335,889; Apr. 6; v. 273; p. 85.
Fulton, William H., Irvington, N. J., assignor to Titeflex Metal Hose Corporation. Pipe-coupling. No. 1,329,759; Feb. 3; v. 271; p. 77.
Fulton, William H., Irvington, N. J., assignor to Titeflex Metal Hose Corporation. Swiveled pipe-union. No. 1,329,760; Feb. 3; v. 271; p. 77.
Fulton, William H., Irvington, N. J., assignor to Titeflex Metal Hose Corporation. Tube. No. 1,348,793; Aug. 3; v. 277; p. 127.
Fultz, Hugh B., Weston, assignor of one-half to W. D. Newlon, Clarksburg, W. Va. Traveling-bag lock. No. 1,359,982; Nov. 23; v. 280; p. 695.
Fumagalli, Giacomo. (See Cardone, P., Fumagalli, and Surico.)
Funahashi, Jo, Kobe, Japan. Manufacture of floor-covering. No. 1,329,170; Jan. 27; p. 270; p. 557.
Funderburk, Otis C., Detroit, Mich., assignor to Murray & Tregurtha Company, Boston, Mass. Oil-cooling apparatus. No. 1,343,669; June 15; v. 275; p. 520.
Funk, Anna L., Peterson, Iowa. Fruit-picker. No. 1,330,699; Feb. 10; v. 271; p. 284.
Funk, Arthur N., Fort Worth, Tex. Advertising attachment for scales. No. 1,346,488; July 13; v. 276; p. 291.
Funk, Bernhard, assignor of one-third to Louisa M. Brenner, Brooklyn, N. Y. Folding theater-chair. No. 1,358,194; Nov. 9; v. 280; p. 252.
Funk, Carlyle B., Chicago, Ill. Hydraulic transmission. No. 1,346,086; July 6; v. 276; p. 150.
Funk, James M., assignor of one-half to T. H. Belrose, Ottawa, Ill. Aeroplane. No. 1,327,548; Jan. 6; v. 270; p. 124.
Funk, Marion P., assignor to W. C. Allen, Enid, Okla. Steering-gear. No. 1,360,518; Nov. 30; v. 280; p. 868.
Funk, Nelson E., Montclair, N. J., assignor, by mesne assignments, to Peerless Roll Leaf Co. Inc. Die-press. No. 1,338,168; Mar. 9; v. 272; p. 240.
Funk, Rufus B., Washington, D. C., assignor to Underwood Typewriter Company, New York, N. Y. Centering scale or rule for centering typewritten or other work. No. 1,343,912; June 22; v. 275; p. 633.
Funk, T. B., Moline, and L. G. Hunt, Rock Island, assignors to Moline Plow Company, Moline, Ill. Vaporizer for internal-combustion engines. No. 1,355,076; Oct. 5; v. 279; p. 124.
Funk, Truman B., assignor to Moline Plow Company, Moline, Ill. Adjustable support for tractor-wheels. No. 1,354,545; Oct. 5; v. 279; p. 20.
Funk, Truman B., assignor to Moline Plow Company, Moline, Ill. Draft appliance for tractors. (Reissue.) No. 14,985; Nov. 16; v. 280; p. 551.
Funke, Louis. (See Berel, M., and Funke.)
Funkhouser, Luther G. (See Krusemark, F. A., Funkhouser, and Carpenter.)
Funston, Edmund B. (See Butcher, J. M., and Funston.)
Furber, Frederick M., Revere, Mass. Temperature-controlling mechanism for internal-combustion engines. No. 1,327,381; Jan. 6; v. 270; p. 93.
Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Grooving-machine. No. 1,335,049; Mar. 30; v. 272; p. 762.
Furber, Frederick M., Revere, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Toe-softener. No. 1,340,825; May 18; v. 274; p. 541.
Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Method and apparatus for conditioning prepared fabric. No. 1,350,366; Aug. 24; v. 277; p. 606.
Furber, Frederick M., Revere, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for use in operating upon the heels of boots and shoes. No. 1,362,614; Dec. 21; v. 281; p. 422.
Furber, Percy N. (See Arbuthnot, John, assignor.)
Furbish, Charles I., Amesbury, Mass. Stem winding and setting mechanism for watches. No. 1,354,179; Sept. 28; v. 278; p. 624.

Digitized by Google

Furbush, Frank L., Westford, assignor to C. G. Sargent's Sons Corporation, Graniteville, Mass. Carrier for driers and the like. No. 1,337,351; Apr. 20; v. 278; p. 447.
Furche, Charles H., Sherman, Tex. Tractor-wheel. No. 1,357,395; Nov. 2; v. 280; p. 37.
Furey, William D., Baltimore, Md. Hose-grip. No. 1,330,794; Feb. 17; v. 271; p. 370.
Furguson, Willard, *et al.* (See Stoltz, Otto W., assignor.)
Furlan, John G., Chicago, Ill. Wrench. No. 1,362,413; Dec. 14; v. 281; p. 331.
Furlong, Martin, Seattle, Wash. Mine safety apparatus. No. 1,327,596; Jan. 6; v. 270; p. 133.
Furlow, Floyd C., Montclair, assignor to Otis Elevator Company, Jersey City, N. J. Micro-drive hydraulic elevator. No. 1,352,742; Sept. 14; v. 278; p. 235.
Furman, Samuel, Worcester, assignor to United States Envelope Company, Springfield, Mass. Machine for making window-envelop blanks. (Reissue.) No. 14,936; Aug. 24; v. 277; p. 782.
Furness, William H., National Park, N. J. Method and apparatus for winding artificial silk. No. 1,338,648; Apr. 27; v. 273; p. 760.
Furnice, Ellis H., Rushville, Ill. Shade and curtain support. No. 1,335,373; Mar. 30; v. 272; p. 822.
Furr, Walter L. (See Thomas, W. E., and Furr.)
Furrow, Edward, Springfield, Ill. Railway structure. No. 1,346,312; July 13; v. 276; p. 257.
Furry, Samuel H., Lancaster, Ohio. Road-crossing. No. 1,346,011; July 6; v. 276; p. 135.
Furste, Henry, assignor to The United States Printing and Lithograph Company, Cincinnati, Ohio. Carton. No. 1,355,325; Oct 12; v. 279; p. 226.
Furstenau, Martin C., Philadelphia, Pa. Anchor. No. 1,357,552; Nov. 2; v. 280; p. 66.
Furstenau, Martin C., Philadelphia, Pa. Protection of automobile power plants from cold. No. 1,359,049; Nov. 16; v. 280; p. 467.
Furstenberg, Paul W., New York, N. Y. Advertising device or the like. No. 1,329,078; Jan. 27; v. 270; p. 540.
Furstonburg, Henry B., Shreveport, La. Lateral-take-up device for locomotive-axles. No. 1,344,267; June 22; v. 275; p. 702.
Furthmann, William N., assignor to Gray-Heath Company, Chicago, Ill. Attachment-plug for electric heating devices. No. 1,329,592; Feb. 3; v. 271; p. 47.
Furthmann, William N., assignor to Gray-Heath Company, Chicago, Ill. Transformer-coil. No. 1,359,589; Nov. 23; v. 280; p. 617.
Furuholmen, George, Minneapolis, Minn. Automatic power-actuating device for stoves, furnaces, and the like. No. 1,330,795; Feb. 17; v. 271; p. 370.
Furukawa Gomei Kaisha. (See Shiomi, Tsutomu, assignor.)
Fusch, Warnie A., Decatur, Ill. Power-operated razor. No. 1,350,717; Aug. 24; v. 277; p. 675.
Fuson, Amos J., Spokane, Wash. Gasolene-filter. No. 1,361,243; Dec. 7; v. 281; p. 52.
Fussell, George, Philadelphia, Pa. Printing device. No. 1,335,491; Mar. 30; v. 272; p. 844.
Fussell, George, Cincinnati, Ohio. Printing-press. No. 1,363,464; Dec. 28; v. 281; p. 627.
Futch, Thurston D., Columbus, Ga. Nut-sheller. No. 1,330,442; Feb. 10; v. 271; p. 236.
Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Ignition-switch. No. 1,328,990; Jan. 27; v. 270; p. 528.
Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Alternating-current motor. No. 1,335,050; Mar. 30; v. 272; p. 762.
Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Synchronous alternating-current motor. No. 1,337,648; Apr. 20; v. 273; p. 502.
Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Starting and ignition system for internal-combustion engines. No. 1,337,649; Apr. 20; v. 273; p. 503.
Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Alternating-current motor. No. 1,345,538; July 6; v. 276; p. 42.
Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Speed-regulating apparatus. No. 1,345,539; July 6; v. 276; p. 42.
Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Speed-regulating apparatus. No. 1,345,540; July 6; v. 276; p. 42.
Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Speed-regulating apparatus. No. 1,350,446; Aug. 24; v. 277; p. 623.
Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Speed-regulating apparatus. No. 1,350,447; Aug. 24; v. 277; p. 623.
Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Dynamo-electric machine. No. 1,354,901; Oct. 5; v. 279; p. 90.
Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Ignition-controlling switch. No. 1,354,902; Oct. 5; v. 279; p. 91.
Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Dynamo-electric machine. No. 1,359,687; Nov. 23; v. 280; p. 636.
Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Automatic ignition switch. No. 1,359,688; Nov. 23; v. 280; p. 636.
Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Power-transmitting apparatus. No. 1,361,244; Dec. 7; v. 281; p. 52.
Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Alternating-current motor and control. No. 1,361,245; Dec. 7; v. 281; p. 52.
G. & J. Tire Company. (See Brown, Arthur J., assignor.)
G. & W. Electric Specialty Co. (See Williams, Paul F., assignor.)
Gabbett-Fairfax, Hugh W., London, England. Automatic or semi-automatic firearm. No. 1,338,649; Apr. 27; v. 273; p. 761.
Gabbett-Fairfax, Hugh W., London, England. Automatic firearm. No. 1,344,499; June 22; v. 275; p. 748.
Gabbett-Fairfax, Hugh W., London, England. Automatic firearm. No. 1,346,012. July 6; v. 276; p. 135.
Gabbett-Fairfax, Hugh W., London, England. Machine-gun and other firearm. No. 1,348,702; Aug. 3; v. 277; p. 111.
Gabbett-Fairfax, Hugh W., London, England. Automatic firearm. No. 1,357,857; Nov. 2; v. 280; p. 125.
Gabel, Thomas R. (See Holdaway, H. H., and Gabel.)
Gabel, Thomas R., and H. H. Holdaway, assignors of two-thirds to H. P. Jones, Los Angeles, Calif., and one-third to said Gabel. Cotton-picker mechanism. No. 1,348,829; Aug. 3; v. 277; p. 134.
Gabelman, Charles, assignor to Packard Motor Car Company, Detroit, Mich. Grinding-machine. No. 1,345,919; July 6; v. 276; p. 117.
Gabor, Alexander, Philadelphia, Pa. Smoke consumer or purifier. No. 1,359,340; Nov. 16; v. 280; p. 523.
Gabriel, Antnony. (See Pogany, Alfred, assignor.)
Gabrielson, John B., Springville, N. Y. Radiator. No. 1,335,890; Apr. 6; v. 273; p. 35.
Gabrielson, John B., Hanover, Pa. Radiator. No. 1,362,615; Dec. 21; v. 281; p. 423.
Gabryszek, Andrew, Detroit, Mich. Combination washing-brush. No. 1,358,195; Nov. 9; v. 280; p. 252.
Gacnik, Frank, *et al.* (See Turk, Frank, assignor.)
Gadbois, Paul, St. Paul, Minn. Pushcart. No. 1,341,013; May 25; v. 274; p. 649.
Gaddini, Ernest C., Napa, Calif. Traction-wheel. No. 1,363,403; Dec. 28; v. 281; p. 615.
Gadeski, Philip, Mystic, Iowa. Railroad-switch. No. 1,358,196; Nov. 9; v. 280; p. 252.
Gadke, William, Philadelphia, Pa. Short-contact push-button. No. 1,335,729; Apr. 6; v. 273; p. 5.
Gadke, William, assignor to Norman Mellor, Philadelphia, Pa. Governor. No. 1,362,689; Dec. 21; v. 281; p. 437.
Gadomski, Zigmint, Jersey City, N. J. Garment-bag. No. 1,363,726; Dec. 28; v. 281; p. 679.
Gaeng, Anna E., Bloomingdale, N. Y. Yarn-holder. No. 1,353,528; Sept. 21; v. 278; p. 449.
Gaeto, Marco, New York, N. Y. Slipper. No. 1,350,965; Aug. 24; v. 277; p. 722.
Gaffers, Herman B., Watervliet, N. Y. Brace or knee. No. 1,343,445; June 15; v. 275; p. 475.
Gaffney, Augustine, New York, N. Y. Landing-stage for vessels and land-vehicles. No. 1,334,445; Mar. 23; v. 272; p. 587.
Gaffney, John F. (See Mayer, Frank A., assignor.)
Gafinowitz, Goodman, Burlington, Vt. Identification device. No. 1,350,275; Aug. 17; v. 277; p. 542.
Gage, Edward G., South Norwalk, Conn. Electrolytic oscillator. No. 1,329,761; Feb. 3; v. 271; p. 77.
Gage, Henry P., assignor to Corning Glass Works, Corning, N. Y. Condenser. No. 1,333,303; Mar. 9; v. 272; p. 265.
Gage, Henry P., and W. Churchill, assignors to Corning Glass Works, Corning, N. Y. Condensing system for optical projecting apparatus. No. 1,333,304; Mar. 9; v. 272; p. [illegible]
Gage, Jay, Los Angeles, Calif. Grade-indicator. No. 1,336,694; Apr. 13; v. 273; p. 247.
Gage, Mattie A., New York, N. Y. Alarm mechanism for clocks. No. 1,327,669; Jan. 13; v. 270; p. 209.
Gage, W. J., & Company. (See Brookes, Edward E., assignor.)
Gagné, Harvey, St. Jean D'Iberville, Quebec, Canada. Railway-switch. No. 1,364,046; Dec. 28; v. 281; p. 742.
Gagné, William G., Boston, Mass. Collapsible swivel-leg. No. 1,342,951; June 8; v. 275; p. 316.
Gagnon, Ernest A., Salem, assignor to Draper Corporation, Hopedale, Mass. Let-off mechanism for looms. No. 1,330,255; Feb. 10; v. 271; p. 202.
Gagnon, Henry J., Cohoes, N. Y. Hinge construction. No. 1,360,284; Nov. 30; v. 280; p. 823.
Gagnon, Leo O., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,361,150; Dec. 7; v. 281; p. 33.
Gagnon, Simeon, assignor of one-half to A. Pilon, Montreal, Quebec, Canada. Dispenser. No. 1,341,711; June 1; v. 275; p. 19.
Gahl, Rudolf, Miami, Ariz. Ore leaching and settling artificial building-stone with outer and inner, vertical tank. No. 1,341,208; May 25; v. 274; p. 687.

Digitized by Google

Gahl, Rudolf, Miami, Ariz., and R. M. Haskell, Lake Linden, Mich.; said Gahl assignor, by mesne assignments, to Pneumatic Process Flotation Company, New York, N. Y. Ore-flotation apparatus. No. 1,343,123; June 8; v. 275; p. 350.

Gahl, Rudolf, Miami, Ariz., assignor, by mesne assignments, to Pneumatic Process Flotation Company, New York, N. Y. Flotation ore-separator and process. No. 1,346,817; July 20; v. 276; p. 415.

Gahl, Rudolf, Miami, Ariz., assignor, by mesne assignments, to Pneumatic Process Flotation Company, New York, N. Y. Flotation ore-separator. No. 1,346,818; July 20; v. 276; p. 415.

Gahl, Rudolf, Denver, Colo., assignor, by mesne assignments, to Pneumatic Process Flotation Company, New York, N. Y. Flotation process. No. 1,346,819; July 20; v. 276; p. 415.

Gahring, Frederick A., assignor of one-half to A. Anderson, Minneapolis, Minn. Non-skid sectional tire-chain. No. 1,348,402; Aug. 3; v. 277; p. 54.

Gaida, Wale, Hillsboro, Tex. Draft attachment for tractors. No. 1,356,705; Oct. 26; v. 279; p. 583.

Gail, John F., assignor to Simmons Company, Kenosha, Wis. Feeding mechanism. No. 1,336,622; Apr. 13; v. 273; p. 233.

Gail, John F., assignor, by mesne assignments, to Simmons Company, Kenosha, Wis. Furniture construction. No. 1,352,594; Sept. 14; v. 278; p. 206.

Gaillard, Antoine, Marseille, France. Device for controlling the speed of automobile-vehicles. No. 1,331,751; Feb. 24; v. 271; p. 571.

Gaillard, Antoine, Marseille, France. Automobile-engine-control device. No. 1,363,404; Dec. 28; v. 281; p. 615.

Gaillard, Ella N., New York, N. Y. Hook and eye. No. 1,340,334; May 18; v. 274; p. 449.

Gailor, Chester F., Brooklyn, assignor to Atlantic Welding Corporation, New York, N. Y. Welded rail-joint. No. 1,361,379; Dec. 7; v. 281; p. 80.

Gainer, Frank J. (See Holland, W. W., and Gainer.)

Gainer, Simon, Chicago, Ill. Sectional spring. No. 1,343,620; June 15; v. 275; p. 510.

Gaines, Thomas R., Norwood, Ohio. Fastening device. No. 1,350,718; Aug. 24; v. 277; p. 676.

Gaines, Vincent S., Webster Groves, Mo., assignor to B. F. Bain, Pittsburgh, Pa. Mechanical toy. (Reissue.) No. 14,902; June 29; v. 275; p. 975.

Gairing, Emil, Detroit, Mich. Boring-tool. No. 1,357,042; Oct. 26; v. 279; p. 649.

Gaiser, John, Centerville, Ohio. Non-skid chain. No. 1,355,464; Oct. 12; v. 279; p. 253.

Gaisman, Henry J., New York, assignor to Eastman Kodak Company, Rochester, N. Y. Photographic apparatus. No. 1,359,245; Nov. 16; v. 280; p. 503.

Gaisman, Henry J., New York, assignor to Eastman Kodak Company, Rochester, N. Y. Apparatus for producing designations upon photographic material. No. 1,359,246; Nov. 16; v. 280; p. 503.

Gaisman, Lucien, assignor of one-half to S. Dreyfus, Manchester, England. Guard for rubber-mills and like machines. No. 1,341,422; May 25; v. 274; p. 728.

Galamb, Joseph, assignor to Ford Motor Company, Detroit, Mich. Radiator. No. 1,334,269; Mar. 16; v. 272; p. 507.

Galamb, Joseph, assignor to Ford Motor Company, Detroit, Mich. Electric switch. No. 1,353,580; Sept. 21; v. 278; p. 460.

Galbraith, Harriet L., Washington, D. C. Sadiron-support. No. 1,355,326; Oct. 12; v. 279; p. 227.

Galbraith, Hugh, Wahiawa, Oahu, Hawaii. Violin attachment. No. 1,346,013; July 6; v. 276; p. 135.

Galbraith, Joseph E., New York, N. Y. Window attachment. No. 1,350,147; Aug. 17; v. 277; p. 517.

Galbreath, Hal. P., Poplar Bluff, Mo. Collapsible coop. No. 1,344,877; June 29; v. 275; p. 886.

Galbreath, John T., Cynthiana, Ky. Spark-plug-cleaning device. No. 1,347,366; July 20; v. 276; p. 523.

Galbreath, Rush D. (See McGlaughlin, William F., assignor.)

Galco Maskinfabriks Aktiebolag. (See Granstedt, Karl E. A., assignor.)

Gale, Ernest L., Sr., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Switch-operating mechanism. No. 1,330,860; Feb. 17; v. 271; p. 382.

Gale, Ernest L., Sr., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Reverse-phase relay for use in connection with polyphase alternating-current circuits. No. 1,339,192; May 4; v. 274; p. 100.

Gale, Francis G. (See Greene, Chester W., assignor.)

Gale, Francis G., Waterville, Quebec, Canada. Chain. No. 1,341,052; May 25; v. 274; p. 657.

Gale, Francis G. (See Stearns, Frederick S., assignor.)

Gale, Oscar A., Eaton, Ohio. Device for conserving cord and twine. No. 1,350,602; Aug. 24; v. 277; p. 653.

Galeski, Joseph S., Richmond, Va. Spectacle nose-bridge. No. 1,352,887; Sept. 14; v. 278; p. 265.

Galeski, Kazimirz, Harrah, Okla. Ship-salvage device. No. 1,352,950; Sept. 14; v. 278; p. 276.

Galibert, Maurice, New York, N. Y. Labeling containers. No. 1,344,080; June 22; v. 275; p. 665.

Galibert, Maurice, New York, N. Y. Labeling-machine. No. 1,344,081; June 22; v. 275; p. 666.

Galion Metallic Vault Company, The. (See Arnold, Alfred A., assignor.)

Galipp, Hermann C., Dallas, Tex. Lawn-swing. No. 1,343,124; June 8; v. 275; p. 350.

Galitzka, George I., New York, N. Y. Listening-in signal for telephone apparatus. No. 1,360,632; Nov. 30; v. 280; p. 891.

Gall, Friedrich, and G. Stolle, Kiel, Germany. Water and pressure tight ball-joint. No. 1,349,060; Aug. 10; v. 277; p. 232.

Gall, Harry, Ishpeming, Mich. Acetylene-lamp. No. 1,332,250; Mar. 2; v. 272; p. 14.

Gallagher, Frank J., Wilkes-Barre, Pa. Propeller. No. 1,331,101; Feb. 17; v. 271; p. 429.

Gallagher, George D., Washington, D. C., assignor to Winchester Repeating Arms Company, New Haven, Conn. Battery hand-lamp. No. 1,358,839; Nov. 16; v. 280; p. 426.

Gallagher, George D., Washington, D. C., assignor to Winchester Repeating Arms Company, New Haven, Conn. Battery hand-lamp. No. 1,361,846; Dec. 14; v. 281; p. 220.

Gallagher, Hugh F., Portland, Me. Measuring instrument. No. 1,346,046; July 13; v. 276; p. 322.

Gallagher, Richard D., Jr., New York, N. Y. Friction draft-gear for railway-cars. No. 1,353,529; Sept. 21; v. 278; p. 450.

Gallagher, Stephen H., Syracuse, N. Y. Knife-sharpener. No. 1,352,888; Sept. 14; v. 278; p. 265.

Gallagher, William H., Berkeley, Calif. Display-case. No. 1,336,899; Apr. 13; v. 273; p. 287.

Gallaher, Louis, Philadelphia, Pa. Indirect system of lighting. No. 1,363,583; Dec. 28; v. 281; p. 651.

Galland, Charles N., assignor to Multicolor Printing and Machinery Company, Minneapolis, Minn. Cylindrical type-border. No. 1,331,637; Feb. 24; v. 271; p. 550.

Gallardo, Alfonso C., Washington, D. C. Determining the germinating value of seed. No. 1,330,112; Feb. 10; v. 271; p. 175.

Galleazzi, Joseph, San Francisco, Calif. Instrument for securing concave metal stoppers in barrels or the like. No. 1,338,619; Apr. 27; v. 273; p. 755.

Galleazzi, Joseph, San Francisco, Calif. Testing and tuning apparatus. No. 1,356,706; Oct. 26; v. 279; p. 583.

Galleguillos, Naviglio B., Philadelphia, Pa. Drinking utensil. No. 1,340,886; May 25; v. 274; p. 624.

Galligan, Edward H., Providence, R. I. Eye syringe and massage device. No. 1,350,719; Aug. 24; v. 277; p. 676.

Galliot, Norbert J. A., Courbevoie, and G. H. L. G. Bory, Paris, France. Arrangement for deadening the recoil of firearms and the like. No. 1,333,402; Mar. 9; v. 272; p. 284.

Galliot, Norbert J. A., Courbevoie, and G. H. L. G. Bory, Paris, France. Recoil-absorbing device for firearms. No. 1,333,403; Mar. 9; v. 272; p. 284.

Gallo, Galileo, and F. Villarboito, Vercelli, Italy. Switch. No. 1,352,889; Sept. 14; v. 278; p. 265.

Gallot, Georges, Paris, and P. Poussin, Pantin, assignors to Societe Purification Industrielle des Gaz, Paris, France. Apparatus for the electrical separation of substances in suspension in fluids. No. 1,332,981; Mar. 9; v. 272; p. 206.

Galloway, William F., Little Rock, Ark. Interest-computing device. No. 1,336,900; Apr. 13; v. 273; p. 287.

Gallup, Benjamin S., Hammond, La. Car-load brace. No. 1,358,724; Nov. 16; v. 280; p. 403.

Gallup, Edward E., Pittsfield, Mass. Bill-posting device. No. 1,327,544; Jan. 6; v. 270; p. 124.

Galopin, Henri, Melbourne, Victoria, Australia. Household-lamp. No. 1,339,699; May 11; v. 274; p. 272.

Galt, Donald A., Toronto, Ontario, Canada. Coffee-pot. No. 1,362,616; Dec. 21; v. 281; p. 423.

Galt, Dwight B. (See Friedman, Israel and Galt.)

Galt, William J., Jr., assignor to The De Long Hook and Eye Company, Philadelphia, Pa. Socket member for snap-fasteners. No. 1,362,690; Dec. 21; v. 281; p. 437.

Galwas, Stanislaus, Manistee, Mich. Stove-lid lifter. No. 1,363,968; Dec. 28; v. 281; p. 725.

Galya, Matt W. (See Deliman, George, assignor.)

Gamble, Austin A., Artesia, and W. A. Watkins, Los Angeles, Calif. Truck. No. 1,360,208; Nov. 23; v. 280; p. 739.

Gamble, Austin A., assignor to G. B. Gamble, Artesia, Calif. Wire-twisting device. No. 1,341,895; June 1; v. 275; p. 55.

Gamble, Guy B. (See Gamble, Austin A., assignor.)

Gamble, Stanley B., West Perth, Western Australia, Australia. Post and side bar of beds, furniture, and the like. No. 1,348,707; Aug. 3; v. 277; p. 111.

Gamble, William A., Macon, Ga. Planting-stick. No. 1,327,030; Jan. 6; v. 270; p. 29.

Gambill, Levi, S., Relief, Ky. Lubricator. No. 1,360,207; Nov. 23; v. 280; p. 739.

Gamewell Fire Alarm Telegraph Company, The. (See Cole, Frederick W., assignor.)

Gamewell Fire Alarm Telegraph Company, The. (See Doughty, Herman W., assignor.)

Gamewell Fire-Alarm Telegraph Company, The. (See Suren, Nathan R., assignor.)

Gamlin, George A., New Britain, Conn. Attachment for beds. No. 1,329,395; Feb. 3; v. 271; p. 10.

Digitized by Google

Gammage, Arthur L., Everett, Mass. Water-filter. No. 1,358,840; Nov. 16; v. 280; p. 426.

Gammel, Karl, Cleveland, Ohio. Drying macaroni and other edible pastes. No. 1,349,568; Aug. 17; v. 277; p. 406.

Gammel, Karl, assignor to The Cleveland Macaroni Company, Cleveland, Ohio. Noodle-laying machine. No. 1,331,752; Feb. 24; v. 271; p. 571.

Gammel, Karl, assignor to The Cleveland Macaroni Company, Cleveland, Ohio. Forming noodles. No. 1,331,753; Feb. 24; v. 271; p. 571.

Gammel, Karl, assignor to The Cleveland Macaroni Company, Cleveland, Ohio. Cooking utensil. No. 1,349,567; Aug. 17; v. 277; p. 405.

Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Bumper. No. 1,329,339; Jan. 27; v. 270; p. 587.

Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Cord-packing. No. 1,336,030; Apr. 6; v. 273; p. 62.

Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Balloon-valve. No. 1,349,335; Aug. 10; v. 277; p. 287.

Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire-mandrel and producing same. No. 1,353,158; Sept. 21; v. 278; p. 377.

Gammeter, John R., Akron, Ohio. assignor to The B. F. Goodrich Company, New York, N. Y. Balloon and parachute. No. 1,359,689; Nov. 23; v. 280; p. 636.

Gammeter, William F., Cadiz, Ohio. Stock-shell for winding fabrics. No. 1,332,329; Mar. 2; v. 272; p. 29.

Gammeter, William F., Cadiz, Ohio. Tire-machine drum. No. 1,332,330; Mar. 2; v. 272; p. 29.

Gammon, Ora, Brush, Colo. Crank-shaft bearing. No. 1,362,584; Dec. 14; v. 281; p. 365.

Gamper, Otto, deceased, Zurich, Switzerland; W. B. Greeley, administrator. Machine for facilitating packing of magnetic objects of oblong shape. No. 1,330,113; Feb. 10; v. 271; p. 175.

Gams, Alphons, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Allylester of the 2-phenylquinolin-4-carboxylic acid. No. 1,336,952; Apr. 13; v. 273; p. 297.

Gamse, H., & Bro. (See Brock, Addison W., assignor.

Gandil, Ernst V., Copenhagen, Denmark. Door-spring. No. 1,337,763; Apr. 20; v. 273; p. 525.

Gandy Belting Company of Baltimore City, The. (See Mark, George L., assignor.)

Gangmark, Harold, Seattle, Wash. Floating fish-trap. No. 1,330,757; Feb. 10; v. 271; p. 295.

Gangwisch, Albert, Bremerton, Wash. Leaf-turner. No. 1,354,820; Oct. 5; v. 279; p. 75.

Ganiere, Robert C., Los Angeles, Calif. Violin attachment. No. 1,332,621; Mar. 2; v. 272; p. 86.

Gann, John A. (See Collings, W. R., and Gann.)

Gano, Armstrong R., Sulphur Springs, Ark. Portable power-saw. No. 1,358,197; Nov. 9; v. 280; p. 253.

Gans, Robert S., New York, N. Y. Loading-indicator for vehicles. No. 1,343,556; June 15; v. 275; p. 497.

Gans, Robert S., New York, N. Y. Loading-indicator for vehicles. No. 1,355,392; Oct. 12; v. 279; p. 239.

Gans, William D., Cleveland, Ohio. Diaphragm for phonographs. No. 1,355,600; Oct. 12; v. 279; p. 279.

Ganss, William H., Toledo, Ohio. Lock. No. 1,352,890; Sept. 14; v. 278; p. 265.

Ganster, Joseph A., Philadelphia, Pa. Forming rings from solid bars. No. 1,328,509; Jan. 20; v. 270; p. 404.

Gant, Harvey, Powers, Oreg. Doubletree. No. 1,355,138; Oct. 12; v. 279; p. 189.

Ganzert, George. (See Saxon, H. R., and Ganzert.)

Ganzhorn, Philip, Chicago, Ill. Knife-holder. No. 1,330,461; Feb. 10; v. 271; p. 240.

Garami, Joseph, Newark, N. J. Coin changing and delivering machine. No. 1,350,148; Aug. 17; v. 277; p. 518.

Garbell, Abraham, Philadelphia, Pa. Toilet-box. No. 1,336,216; Apr. 6; v. 273; p. 97.

Garber, Harvey C., Columbus, Ohio. Spark-plug. No. 1,327,382; Jan. 6; v. 270; p. 93.

Garbutt, Frank A., Los Angeles, Calif. Art work and producing same. No. 1,356,442; Oct. 19; v. 279; p. 484.

Garcia, José A., New York, N. Y. Jack-centering device. No. 1,337,065; Apr. 13; v. 273; p. 310.

Garcia, Manuel R., Leavenworth, Kans. Launching apparatus for lifeboats. No. 1,363,036; Dec. 21; v. 281; p. 505.

Garcin, Edward H., New York, N. Y. Treating asbestos. No. 1,340,535; May 18; v. 274; p. 487.

Gardanier, Percy M., Bayside, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-transmission system. No. 1,355,957; Oct. 19; v. 279; p. 389.

Gardella, August, Princeton, N. J. Swimming-boat. No. 1,354,435; Sept. 28; v. 278; p. 676.

Gardella, Albert B., Cleveland, Ohio. Board drop-hammer. No. 1,363,465; Dec. 28; v. 281; p. 627.

Garden, David A., St. Louis, Mo. Adjustable reflector for headlights. No. 1,350,308; Aug. 24; v. 277; p. 595.

Gardiner, Lou M., assignor to The Iron Horse Tractor Company, San Francisco, Calif. Transmission-gearing. No. 1,349,719; Aug. 17; v. 27; p. 436.

Gardiner, Richard H., and H. C. Stacey, Minneapolis, Minn. Ice-cream-dispensing machine. No. 1,358,631; Nov. 9; v. 280; p. 340.

Gardiner, Robert F., Clarendon, Va. Production of synthetic ammonia from the air or nitrogen. No. 1,328,082; Jan. 13; v. 270; p. 286.

Gardiner, Robert F., Clarendon, Va. Apparatus for the production of synthetic ammonia. No. 1,333,404; Mar. 9; v. 272; p. 284.

Gardiner, William, Chicago, Ill. Storage-battery construction. No. 1,342,952; June 8; v. 275; p. 316.

Gardiner, William, Chicago, Ill. Cover for storage batteries. No. 1,342,954; June 8; v. 275; p. 316.

Gardiner, William, Chicago, Ill. Automatic current-control and brake-valve mechanism. No. 1,360,918; Nov. 30; v. 280; p. 946.

Gardiner, William, and W. H. Duggan, Chicago, Ill. Active material for battery-plates. No. 1,342,953; June 8; v. 275; p. 316.

Gardner, Charles F. (See Cartwright, Ernest O., assignor.)

Gardner, Charles J., Santa Ana, Calif. Harvester. No. 1,339,924; May 11; v. 274; p. 314.

Gardner, Davis S. (See Bates, Albert J., Jr., assignor.)

Gardner, Edmond J., Valliant, Okla. Watch glass and bezel gage. No. 1,330,861; Feb. 17; v. 271; p. 383.

Gardner, Edward B., assignor to Badger Tool Company, Beloit, Wis. Work-table for grinding-machines. No. 1,337,352; Apr. 20; v. 273; p. 447.

Gardner, Edward B., assignor to Badger Tool Company, Beloit, Wis. Grinding-machine. No. 1,337,353; Apr. 20; v. 273; p. 447.

Gardner, Florinda, Salt Lake City, Utah. Speed-indicator. No. 1,329,046; Jan. 27; v. 270; p. 534.

Gardner, Henry A. (See Barton, L. E., and Gardner.)

Gardner, Howard S., East Orange, N. J. Hopper and the like. No. 1,359,161; Nov. 16; v. 280; p. 487.

Gardner, James P., Chicago, Ill. Machine for treating limbs. No. 1,354,248; Sept. 28; v. 278; p. 639.

Gardner, John. (See Berger, J. J., and Gardner.)

Gardner, John A., Grifton, N. C., assignor of one-half to C. C. Cobb, Norfolk, Va. Tobacco-truck. No. 1,363,245; Dec. 28; v. 281; p. 586.

Gardner, Karl L. (See Garside, Alvin C., assignor.)

Gardner, William A. (See Webb, B., and Gardner.)

Gardner, William Broomhill, Glasgow, Scotland. Sheet-metal boat or other vessel. No. 1,340,441; May 18; v. 274; p. 470.

Gardner, William E., Pittsburgh, assignor of one-third to H. C. Black, Ben Avon, and one-third to J. Jacob, Pittsburgh, Pa. Electrical-heater resistance element. No. 1,338,294; Apr. 27; v. 273; p. 695.

Gardner, William R., assignor to M. R. Hamaker, Los Angeles, Calif. Saw-filing machine. No. 1,335,433; Mar. 30; v. 272; p. 833.

Gardner, William S., Boston, Mass. Toy cannon. No. 1,333,405; Mar. 9; v. 272; p. 284.

Garfield, Elva R., New York, N. Y. Method and apparatus for teaching manuscript-form. No. 1,328,952; Jan. 27; v. 270; p. 516.

Garfield, James R., trustee. (See Clement, Edward E., assignor.)

Garfield, James R., trustee. (See Wright, Joseph L., assignor.)

Garfinkel, Marcus, Detroit, Mich. Safe. No. 1,347,693; July 27; v. 276; p. 645.

Garford, Arthur L. (See Parkes, Walter, assignor.)

Garford Manufacturing Company, The. (See Manson, Ray H., assignor.)

Garfunkel, Sol, Utica, N. Y. Ceiling electric-light fixture. No. 1,331,494; Feb. 24; v. 271; p. 522.

Garison, Robert J., Hastings, Okla. Pan-lifter. No. 1,346,820; July 20; v. 276; p. 415.

Garl, Manious, Akron, Ohio. Combined emergency-light and manually-controlled signal. No. 1,334,995; Mar. 30; v. 272; p. 752.

Garl, Manious, Akron, Ohio. Fire-alarm system. No. 1,363,240; Dec. 28; v. 281; p. 586.

Garland, Ben. (See D'Eglibert, W. A., and Garland.)

Garland, Edward E., New York, N. Y. Stemless self-closing valve for high-pressure tanks. No. 1,348,708; Aug. 3; v. 277; p. 112.

Garland, Everett C., and N. G. Martin, Albuquerque, N. Mex. Soft-collar-display device. No. 1,335,679; Mar. 30; v. 272; p. 879.

Garlius, Bernt, and F. W. Knott, assignors to Detroit Belt Lacer Company, Detroit, Mich. Method and machine for forming ganged belt-fastening hooks. No. 1,342,712; June 8; v. 275; p. 267.

Garlock, John. (See Kinney, Thaddeus, assignor.)

Garlock, William H., Seattle, Wash. Bread-slicing device. No. 1,334,696; Mar. 23; v. 272; p. 634.

Garman, Harry B., Detroit, Mich., assignor to C. E. Thompson, Cleveland, Ohio. Transmission. No. 1,348,166; Aug. 3; v. 277; p. 6.

Garman, Harry B., Detroit, Mich., and D. V. Buck, Milton, Pa., assignors to C. E. Thompson, Cleveland, Ohio. Universal joint. No. 1,349,197; Aug. 10; v. 277; p. 259.

Garner, Arthur N. (See Slagle, G. R., Garner, and Rushin.)

Garner, Charles N. (See Wild, Edward J., assignor.)

Digitized by Google

Garner, Ernest P., Charleston, S. C. Building construction. No. 1,345,164; June 29; v. 275; p. 941.
Garner, Francis M., Beech Grove, Ark. Bed. No. 1,335,961; Apr. 6; v. 273; p. 49.
Garner, Frederick A., assignor of one-third to W. V. Nugent, Oakland, Calif. Plate tightener and fastener. No. 1,355,327; Oct. 12; v. 279; p. 227.
Garner, Henry, Moseley, J. P. Garner, Birmingham, and W. J. Parker, Moseley, England; said Parker assignor to said H. Garner and said J. P. Garner. Tractor. No. 1,348,558; Aug. 3; v. 277; p. 83.
Garner, Herman H. (See Naftel, P. F., and Garner.)
Garner, James B., Pittsburgh, Pa., and H. C. Cooper, Clarksburg, W. Va., assignor to Hope Natural Gas Company, Pittsburgh, Pa. Obtaining gasolene from natural gas. No. 1,332,290; Mar. 2; v. 272; p. 22.
Garner, James P. (See Garner, H., and J. P., and Parker.)
Garner, Joseph C., assignor to Detroit Electrical Branding Iron Company, Detroit, Mich. Branding-iron. No. 1,357,230; Nov. 2; v. 280; p. 6.
Garner, Karl, St. Marys, Pa. Folding scaffold-bracket. No. 1,347,453; July 20; v. 276; p. 540.
Garnett, Thomas W., and F. E. Torgler, Topeka, Kans. Ice-can. No. 1,348,354; Aug. 3; v. 277; p. 44.
Garnier, Ernest L., Neuilly-sur-Seine, France. Device for increasing the efficiency of firearms and the like. No. 1,327,545; Jan. 6; v. 270; p. 124.
Garniss, Charles, Newport, R. I. Top. No. 1,355,601; Oct. 12; v. 279; p. 279.
Garoff, Nikolai, Helsingfors, Finland. Leveling device for photographic cameras. No. 1,357,704; Nov. 2; v. 280; p. 95.
Garratt, Hector H., Birmingham, England. Metal window-frame. No. 1,354,821; Oct. 5; v. 279; p. 75.
Garred-Cavers Corporation. (See Cavers, Thomas W., assignor.)
Garred, Ulysses V., Louisa, Ky. Memorandum attachment for kodak-albums. No. 1,335,434; Mar. 30; v. 272; p. 833.
Garren, George S., Oak Park, assignor to Sargent Company, Chicago, Ill. Gasket. No. 1,339,599; May 11; v. 274; p. 253.
Garrett, Carlton M., *et al.* (See Garrett, Myers A., assignor.)
Garrett, Charles B. (See Evans, P., Rowley, and Garrett.)
Garrett, Myers A., Chicago, Ill., assignor of one-half to C. M. Garrett, New York, N. Y., and one-half to W. H. Taggart, Chicago, Ill. Seat construction. No. 1,356,202; Oct. 19; v. 279; p. 438.
Garrett, Walter B., and H. M. Hoffman, Caruthersville, Mo. Lock-operated circuit-closer. No. 1,346,087; July 6; v. 276; p. 150.
Garrett, Wilbur M., Lookeba, Okla. Kafir-header. No. 1,338,295; Apr. 27; v. 273; p. 695.
Garretson, Anna F., Turner, Oreg. Stovepipe-cleaner. No. 1,361,708; Dec. 7; v. 281; p. 146.
Garrigue, Florence, Danvers, Mass. Toy. No. 1,337,354; Apr. 20; v. 273; p. 447.
Garrison, Orlando, Dayton, Ohio. Grinding-machine. No. 1,328,953; Jan. 27; v. 270; p. 517.
Garrison, Perry J., assignor of one-half to W. Reed, Oxford, Mich. Combined muffler, vaporizer, and mixing-chamber for gas-engines. No. 1,349,755; Aug. 17; v. 277; p. 442.
Garrison, Walter W. (See Rattermann, G. B., and Garrison.)
Garritson, Henry R., Logansport, Ind. Shipping-crate. No. 1,329,966; Feb. 3; v. 271; p. 116.
Garry, Jerome G. (See Garry, Robert S. and J. G.)
Garry, Robert S. and J. G., Jenks, Okla. Strainer for pumps. No. 1,329,171; Jan. 27; v. 270; p. 557.
Garside, Alvin C., assignor of one-half to K. L. Gardner, Glendale, Calif. Rain and sun shield for autos. No. 1,360,919; Nov. 30; v. 280; p. 946.
Garson, Thorvald N., New York, N. Y. Crane. No. 1,337,400; Apr. 20; v. 273; p. 456.
Garst, Charles M., Independence, Mo. Paint-bucket hanger. No. 1,339,025; May 4; v. 274; p. 69.
Garst, Stephen H., Moline, Ill. Shield for cultivators. No. 1,349,419; Aug. 10; v. 277; p. 303.
Gartin, Elmer G., assignor to Sullivan Machinery Company, Claremont, N. H. Control mechanism. No. 1,363,203; Dec. 21; v. 281; p. 537.
Garver, Charles W., Ashland, Ohio. Fountain-pen cleaner. No. 1,343,621; June 15; v. 275; p. 510.
Garvey, David F., Chicago, Ill. Flushing apparatus. No. 1,358,841; Nov. 16; v. 280; p. 437.
Garvin, Cyrus M., assignor to Copper-Die Horseshoe Company, Pittsburgh, Pa. Machine for electrically welding the calk or toe-piece upon horseshoe-blanks. No. 1,329,520; Feb. 3; v. 271; p. 34.
Garvin Machine Company. (See McClellan, Edward J., assignor.)
Garvy, Christopher A., Clayton, Mo. Fountain-brush. No. 1,359,690; Nov. 23; v. 280; p. 637.
Garwitt, Louis, New York, N. Y. Shawl-muffler. No. 1,346,014; July 6; v. 276; p. 135.
Garza, Pablo G., San Antonio, Tex. Corn-flour and making same. No. 1,334,366; Mar. 23; v. 272; p. 572.
Garzoni, Chinto A., De Lancey, Pa. Air-hose coupling. No. 1,328,373; Jan. 20; v. 270; p. 378.
Gasaway, Hugh W., East Pleasant Plain, Iowa. Electric stove. No. 1,363,108; Dec. 21; v. 281; p. 518.
Gasche, Ferdinand G., Chicago, Ill. Concentration of ore. No. 1,359,496; Nov. 23; v. 280; p. 598.
Gasche, Ferdinand G., Chicago, Ill. Apparatus for the concentration of ores. No. 1,359,497; Nov. 23; v. 280; p. 598.
Gasche, Ferdinand G., Chicago, Ill. Machine for perfecting ingots. No. 1,362,988; Dec. 21; v. 281; p. 495.
Gash, Edwin C., Auckland, New Zealand. Preserving-jar and the like. No. 1,359,351; Nov. 16; v. 280; p. 525.
Gaskill, James, Cleveland, Ohio. Forced rotary-draft furnace. No. 1,357,494; Nov. 2; v. 280; p. 55.
Gaskill, James C., Fairmont, W. Va. Adjustable bar-coal screen. No. 1,351,563; Aug. 31; v. 277; p. 903.
Gaskin, Robert J. (See Tarras, Harry M., assignor.)
Gaskins, Fred, *et al.* (See Bowen, Charles, assignor.)
Gass, South W., Tenino, Wash. Snow-plow. No. 1,356,443; Oct. 19; v. 279; p. 485.
Gasser, Joseph, Trenton, N. J. Brush. No. 1,340,040; May 11; v. 274; p. 336.
Gasser, Joseph, and A. H. Barber, Trenton, N. J. Raising and lowering device. No. 1,353,737; Sept. 21; v. 278; p. 492.
Gast, William, Philadelphia, Pa. Regenerator. No. 1,361,709; Dec. 7; v. 281; p. 146.
Gaston, Ralph M., Chicago, Ill. Internal-combustion engine. No. 1,351,950; Sept. 7; v. 278; p. 48.
Gaston, Walter S., St. Petersburg, Fla. Shade-bracket. No. 1,359,352; Nov. 16; v. 280; p. 525.
Gaston, William A., *et al.* (See Young, James E., assignor.)
Gatchell, George S., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Thread-nipper-releasing device for sewing-machines. No. 1,327,232; Jan. 6; v. 270; p. 66.
Gatchell, George S., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Multiple-needle chain-stitching machine. No. 1,335,374; Mar. 30; v. 272; p. 822.
Gatchell, George S., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Thread-controlling mechanism for sewing-machines. No. 1,342,800; June 8; v. 275; p. 286.
Gatchell, George S., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Strip-guide for sewing-machines. No. 1,347,503; July 27; v. 276; p. 606.
Gatchell, George S., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Thread-controlling mechanism for sewing-machines. No. 1,361,247; Dec. 7; v. 281; p. 52.
Gatchell, Grace P., Detroit, Mich. Griddle-pan. No. 1,332,251; Mar. 2; v. 272; p. 14.
Gater, Roy, Oklahoma, Okla. Lawn-mower. No. 1,357,396; Nov. 2; v. 280; p. 37.
Gates, Abram, Carroll, near Burnetts Creek, Ind. Spark-plug. No. 1,337,216; Apr. 20; v. 273; p. 421.
Gates, Charles C., Denver, Colo. Drink-dispensing apparatus. No. 1,359,050; Nov. 16; v. 280; p. 467.
Gates, Charles C., assignor to The Gates Rubber Company, Denver, Colo. Pneumatic tire. No. 1,339,951; May 11; v. 274; p. 320.
Gates, Charles C., assignor to The Gates Rubber Company, Denver, Colo. Applying repair-tires to worn casings. No. 1,341,121; May 25; v. 274; p. 669.
Gates, Charles C., assignor, by mesne assignments, to The Gates Rubber Company, Denver, Colo. Belt-making process. (Reissue.) No. 14,875; June 8; v. 275; p. 362.
Gates, Charles C., assignor to The Gates Rubber Company, Denver, Colo. Forming endless V-belts. No. 1,354,738; Oct. 5; v. 279; p. 58.
Gates, Frederic P., assignor to The Arrow Electric Company, Hartford, Conn. Snap-switch handle. No. 1,330,628; Feb. 10; v. 271; p. 271.
Gates, Frederic P., assignor to The Arrow Electric Company, Hartford, Conn. Electric switch. No. 1,337,011; Apr. 13; v. 273; p. 308.
Gates, Frederick W. (See Park, George I., assignor.)
Gates, George B., Portland, Me. Metallic packing. No. 1,331,253; Feb. 17; v. 271; p. 457.
Gates, Harry H. (See Barnard, C., and Gates.)
Gates, Jefferson E., assignor of one-half to A. R. Harper, Gainesville, Fla. Tying device. No. 1,360,920; Nov. 30; v. 280; p. 946.
Gates, John W., Montreal, Quebec, Canada. Furnace construction. No. 1,341,896; June 1; v. 275; p. 55.
Gates, John W., Montreal, Quebec, Canada. Furnace construction. No. 1,341,977; June 1; v. 275; p. 71.
Gates, Louis W., assignor to Ternstedt Manufacturing Company, Detroit, Mich. Windshield-wiper. No. 1,345,541; July 6; v. 276; p. 42.
Gates, Philetus W., Chicago, Ill., assignor to Mumford Molding Machine Company, Jersey City, N. J. Molding-machine. No. 1,344,126; June 22; v. 275; p. 674.
Gates, Quincy A. (See Bunnell, W. O., and Gates.)
Gates, Quincy A., Wilkes-Barre, Pa. Jar-closure. No. 1,341,897; June 1; v. 275; p. 56.
Gates Rubber Company, The. (See Gates, Charles C., assignor.)
Gates Rubber Company, The. (Reissue.) (See Gates, Charles C., assignor.)

Digitized by Google

Gates Rubber Company, The. (See Yelm, Charles W., assignor.)
Gates, Sylvester A., Detroit, Mich. Automobile-curtain. No. 1,353,468; Sept. 21; v. 278; p. 437.
Gates, William H., New Haven, Conn. Die-head. No. 1,358,074; Nov. 9; v. 280; p. 229.
Gates, William H., New Haven, Conn. Collapsible tap. No. 1,358,075; Nov. 9; v. 280; p. 229.
Gatewood, Frank A., Sylvan Grove, Kans. Wrench. No. 1,327,991; Jan. 13; v. 270; p. 269.
Gatewood, William, assignor to Newport News Shipbuilding & Dry Dock Company, Newport News, Va. Erecting vessels with longitudinal framing. No. 1,357,699; Nov. 2; v. 280; p. 94.
Gathman, Monte B., Shelbyville, and R. D. Eaglesfield, said Gathman assignor to A. Vonnegut, Indianapolis, Ind. Spindle adjustment for motor-driven molders. No. 1,340,709; May 18; v. 274; p. 520.
Gathmann, Emil, Baltimore, Md. Teeming ingot-mold. No. 1,333,305; Mar. 9; v. 272; p. 266.
Gathmann, Emil, Baltimore, Md. Detonator for high-explosive shells. No. 1,340,536; May 18; v. 274; p. 487.
Gatter, L. Stewart. (See Kraft, Carl, assignor.)
Gauger, Frank A., assignor of one-fourth to A. J. Raddatz, one-fourth to W. A. Bartelt, and one-fourth to E. R. Jeske, Milwaukee, Wis. Hot-water heater. No. 1,333,614; Mar. 16; v. 272; p. 385.
Gaul, Sebastian, New York, N. Y. Clamp. No. 1,356,136; Oct. 19; v. 279; p. 425.
Gaunt, Charles F., Birmingham, England. Naval, military, and other metallic badges. No. 1,353,228; Sept. 21; v. 278; p. 391.
Gaunt, James, and D. Brookfield, London, England. Smelting furnace and the like. No. 1,344,878; June 29; v. 275; p. 886.
Gauslin, Anthony. (See White, W. M., and Gauslin.)
Gauthier, J. Alfred. (See Schwartz, A. A., and Whiteside, assignors.)
Gavin, Mary M., executrix. (See Gavin, Norman A.)
Gavin, Norman A., deceased, Kinshasha, Belgian Congo; M. M. Gavin, executrix, assignor to Lever Brothers Limited, Port Sunlight, England. Extraction of oil from vegetable fruits. No. 1,328,278; Jan. 20; v. 270; p. 360.
Gavin, William H., assignor to Pratt-Low Preserving Co., Santa Clara, Calif. Operator's seat for cannery-tables. No. 1,344,940; June 29; v. 275; p. 898.
Gaviak, Joseph G., Monongahela, Pa. Toy vehicle. No. 1,353,581; Sept. 21; v. 278; p. 461.
Gavros, George. (See Cherpech, Joseph, assignor.)
Gay, Conley, Middletown, N. Y. Game. No. 1,338,502; Apr. 27; v. 273; p. 734.
Gay, Emil W. S., Roxbury, Mass. String-fastener. No. 1,330,256; Feb. 10; v. 271; p. 202.
Gay, Frazer W., Newark, N. J. Luminous locator or marker. No. 1,361,380; Dec. 7; v. 281; p. 80.
Gay, Frazer W., Newark, N. J. Sign. No. 1,362,284; Dec. 14; v. 281; p. 307.
Gay, George L., assignor of one-half to F. Whittmann, Philadelphia, Pa. Portable baker's oven. No. 1,340,946; May 25; v. 274; p. 636.
Gay, George L., assignor of one-half to F. Whittmann, Philadelphia, Pa. Baking-oven and loading device therefor. No. 1,348,555; Aug. 3; v. 277; p. 44.
Gay, George L., Philadelphia, Pa., assignor, by mesne assignments, to A. F. Hartzell, Pittsburgh, Pa. Baker's oven. No. 1,359,886; Nov. 23; v. 280; p. 676.
Gay, Lemuel C., Bolivar, Tenn. Lamp-chimney holder. No. 1,331,010; Feb. 17; v. 271; p. 413.
Gay, Myra K., Winchester, Ky. Shoulder-purse. No. 1,361,761; Dec. 7; v. 281; p. 156.
Gay, Robert I. (See Abrams, W. B., and Gay.)
Gay, William B. D., Brookline, Mass. Ordnance device. No. 1,343,557; June 15; v. 275; p. 498.
Gayle, Samuel L., Baskerville, Va. Road-guide. No. 1,344,268; June 22; v. 275; p. 702.
Gaylor, Leonard B., Stamford, Conn. Game. No. 1,363,769; Dec. 28; v. 281; p. 687.
Gayner Pneumatic Company, The. (See Cleghorn, Charles A., assignor.)
Gaynor, Arthur C., Stratford, Conn. Ceiling and floor plate. No. 1,335,730; Apr. 6; v. 273; p. 5.
Gaynor, Arthur C., Stratford, Conn. Radiator-cap insert. No. 1,360,388; Nov. 30; v. 280; p. 842.
Gaynor, John J., assignor to Arrow Bottlers Machinery Company, trustee, Chicago, Ill. Capping mechanism. No. 1,350,405; Aug. 24; v. 277; p. 614.
Gaynor, John J., assignor to Arrow Bottlers Machinery Company, trustee, Chicago, Ill. Magnetic crown-cap selector. No. 1,358,725; Nov. 16; v. 280; p. 404.
Gazda, Adolph A., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Motor-control system. No. 1,354,180; Sept. 28; v. 278; p. 625.
Gazda, Adolph A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Switch mechanism. No. 1,354,181; Sept. 28; v. 278; p. 625.
Gazlay, Eugene M., Sidnaw, Mich. Potato-digger. No. 1,334,605; Mar. 23; v. 272; p. 617.
Gazzi, Peter, Chicago Heights, Ill. Latch. No. 1,340,605; May 18; v. 274; p. 501.
Gear Improvement Company. (See Williams, Harvey D., assignor.)
Gearhart, Alonzo W., Fresno, Calif. Hydrocarbon-burner. No. 1,355,958; Oct. 19; v. 279; p. 389.
Gearhart, Clyde M. (See Montuori, Felix, assignor.)
Gearing, Charles M., Hartford, assignor to The New Departure Manufacturing Company, Bristol, Conn. Gage. No. 1,341,978; June 1; v. 275; p. 71.
Geary, Henry H., Fostoria, Ohio. Salesman's portable office. No. 1,353,530; Sept. 21; v. 278; p. 450.
Gebauer, Charles L., Cleveland, Ohio. Producing metal bodies. No. 1,342,801; June 8; v. 275; p. 286.
Gebauer, Charles L., Cleveland, Ohio. Composition of matter. No. 1,346,192; July 13; v. 276; p. 232.
Gebauer, Charles L., Cleveland, Ohio. Producing formed metallic articles. No. 1,359,353; Nov. 16; v. 280; p. 525.
Gebhardt, Henry J., Chicago, Ill. Valve. No. 1,342,955; June 8; v. 275; p. 316.
Gebhardt, William, San Antonio, Tex. Spring-wheel. No. 1,336,031; Apr. 6; v. 273; p. 62.
Gebhart, John C., Eagle Rock, Calif., assignor to Econometer Company, St. Louis, Mo. Machine for measuring textile fabric. No. 1,356,616; Oct. 26; v. 279; p. 565.
Geddes, William L., Sussex, N. J. Automatic pump. No. 1,330,072; Feb. 10; v. 271; p. 167.
Gee, Edward, and R. L. Burns, Denver, Colo. Adjustable batten-clamp. No. 1,347,023; July 20; v. 276; p. 456.
Gee, Richard T., West Boylston, Mass. Game. No. 1,361,248; Dec. 7; v. 281; p. 53.
Geer, Harry R., Johnstown, Pa. Universal shaft-coupling. No. 1,351,420; Aug. 31; v. 277; p. 875.
Geer, Harry R., Johnstown, Pa. Universal coupling. No. 1,357,553; Nov. 2; v. 280; p. 66.
Geer, Harry R., Johnstown, Pa. Universal joint. No. 1,359,354; Nov. 16; v. 280; p. 525.
Geer, Harry R., Johnstown, Pa. Universal shaft-coupling. (Reissue.) No. 15,004; Dec. 14; v. 281; p. 365.
Geer, Rayfield, Columbus, Ohio. Lamp. No. 1,342,330; June 1; v. 275; p. 140.
Gegenheimer, Ralph E., and M. Mauran, Niagara Falls, N. Y., assignors to The Mathieson Alkali Works (Inc.), Providence, R. I. Making sulfur chlorid. No. 1,341,423; May 25; v. 274; p. 728.
Gehl, Henry M. (See Gehl, M. L., Merriam, and Gehl.)
Gehl, Michael L., A. L. Merriam, and H. M. Gehl, West Bend, Wis. Mixer. No. 1,340,947; May 25; v. 274; p. 636.
Gehrig, William F. (See Kierstead, G. J., and Gehrig.)
Gehring, Walter E., Milwaukee, Wis. Suspended arch for boilers and the like. No. 1,328,511; Jan. 20; v. 270; p. 404.
Gehring, William G., Woodhaven, N. Y. Baseball game. No. 1,346,782; July 13; v. 276; p. 350.
Gehrke, Robert H., Libby, Mont. Press. No. 1,339,193; May 4; v. 274; p. 100.
Geier, P. A., Company, The. (See Geier, P. A., and Robertson, assignors.)
Geier, P. A., Company, The. (See Geier, Philip A., assignor.)
Geier, Philip A., assignor to The P. A. Geier Company, Cleveland, Ohio. Press-body. No. 1,350,649; Aug. 24; v. 277; p. 662.
Geier, Philip A., and F. E. Robertson, assignors to The P. A. Geier Company, Cleveland, Ohio. Handle-member. No. 1,349,828; Aug. 17; v. 277; p. 456.
Geiger, Carl F., Dayton, Ohio. Ink-bottle holder. No. 1,329,593; Feb. 3; v. 271; p. 47.
Geiger, William A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Tandem draft-gear. No. 1,355,959; Oct. 19; v. 279; p. 389.
Geiger, William A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Side bearing for railway-cars. No. 1,357,770; Nov. 2; v. 280; p. 108.
Geiger, William A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Releasable door-hanger. No. 1,357,771; Nov. 2; v. 280; p. 109.
Geiger, William A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Hand-brake. No. 1,361,455; Dec. 7; v. 281; p. 96.
Geiger, William H., Oakland, Calif. Gearing for egg-beaters, cream-whippers, and the like. No. 1,327,950; Jan. 13; v. 270; p. 261.
Geigy, J. R., S. A. (See Fischer, Max, assignor.)
Geissberger, Emil C., Zurich, Switzerland. Spring suspension for vehicles. No. 1,347,154; July 20; v. 276; p. 481.
Geissinger, Harry G., New York, N. Y. Lifting-magnet. No. 1,333,542; Mar. 9; v. 272; p. 311.
Geist, Carlton. (See Wiederwax, Robert W., assignor.)
Geist, Harry F., Racine, Wis. Magneto. No. 1,334,298; Mar. 23; v. 272; p. 559.
Geist, Harry F., Sumter, S. C., assignor to Webster Electric Company, Racine, Wis. Inductor-generator. No. 1,354,546; Oct. 5; v. 279; p. 20.
Gelatt, Philo M., La Crosse, Wis. Cap for radiators. No. 1,358,307; Nov. 9; v. 280; p. 274.
Gelatt, Walter B., Seymour, Iowa. Corn-harvester. No. 1,328,791; Jan. 20; v. 270; p. 456.
Gelb, Joseph, New York, N. Y. Multiple lamp. No. 1,347,846; July 27; v. 276; p. 675.

Digitized by Google

Alphabetical list of patentees—Continued.

Gelbke, Edward, Jersey City, N. J. Window-frame support. No. 1,347,694; July 27; v. 276; p. 645.

Gelke, Henry, Brooklyn, N. Y. Lining for refrigerators. No. 1,339,328; May 4; v. 274; p. 125.

Gell, James, Branford, Conn. Wrench. No. 1,341,712; June 1; v. 275; p. 19.

Gellenbeck, Mary M., Tacoma, Wash. Garment. No. 1,331,754; Feb. 24; v. 271; p. 571.

Gellis, Samuel, New York, N. Y. Combination ladder and ironing-table. No. 1,343,500; June 15; v. 275; p. 486.

Gelman, Abraham, Chicago, Ill. Binding and fastening means for fabric bed-bottoms. No. 1,362,989; Dec. 21; v. 281; p. 495.

Gemmer Manufacturing Company. (See Ragan, Frederick H., assignor.)

Gemsey, Julius O., Montevideo, Minn. Music-leaf turner. No. 1,353,582; Sept. 21; v. 278; p. 461.

Génault, Albert, Courbevoie, France. Fuel-heater. No. 1,345,762; July 6; v. 276; p. 85.

Gendar, Harry W., Lost Hills, Calif. Oil-well meter and sampler. No. 1,341,898; June 1; v. 275; p. 56.

Gendreau, Auguste, assignor of one-half to T. Beaudette, Bemidji, Minn. Logging car or sleigh. No. 1,343,772; June 15; v. 275; p. 540.

Gendron, Camille A., Montreal, Quebec, Canada. Humidifier. No. 1,334,697; Mar. 23; v. 272; p. 634.

Genebach, George J., assignor to United Steel and Wire Co., Battle Creek, Mich. Poultry-crate. No. 1,352,444; Sept. 14; v. 278; p. 175.

General Abrasive Company. (See Chapman, Charles H., assignor.)

General American Tank Car Corporation. (See Parks, Ostrander J., assignor.)

General Automatic Scale Company, The. (See Schaper, Henry C., assignor.)

General Bakelite Company. (See Baekeland, Leo H., assignor.)

General Briquetting Company. (See Gilmore, Thomas, Jr., assignor.)

General Briquetting Company. (See Vogel, Felix A., assignor.)

General Ceramics Company. (See Scharl, John, assignor.)

General Chain Company. (See Payette, Joseph A., assignor.)

General Chain Company. (See Weinacker, Hermann, assignor.)

General Chemical Company. (See Kyrides, Lucas P., assignor.)

General Electric Company. (See Abbott, Charles C., assignor.)

General Electric Company. (See Alexanderson, E. F. W., assignor.)

General Electric Company. (See Alexanderson, Ernst F. W., assignor.)

General Electric Company. (See Allen, E. W., and Taylor, assignors.)

General Electric Company. (See Anderson, John H., assignor.)

General Electric Company. (See Atwood, Winfield A., assignor.)

General Electric Company. (See Axtell, Clinton J., assignor.)

General Electric Company. (See Barton, Theophilus F., assignor.)

General Electric Company. (See Basch, David, assignor.)

General Electric Company. (See Batchelder, Asa F., assignor.)

General Electric Company. (See Belt, Thomas A. E., assignor.)

General Electric Company. (See Berg, Ernst J., assignor.)

General Electric Company. (See Bergman, Sven R., assignor.)

General Electric Company. (See Berry, Arthur F., assignor.)

General Electric Company. (See Berry, Edward R., assignor.)

General Electric Company. (See Blackwell, F. O., and Buck, assignors.)

General Electric Company. (See Boles, E. D., and Untersee, assignors.)

General Electric Company. (See Brand, Frederick F., assignor.)

General Electric Company. (See Branson, Edward H., assignor.)

General Electric Company. (See Briggs, Robert M., assignor.) (Reissue.)

General Electric Company. (See Burnham, Joseph L., assignor.)

General Electric Company. (See Carichoff, Eugene R., assignor.)

General Electric Company. (See Carothers, Robert M., assignor.)

General Electric Company. (See Carver, James H., assignor.)

General Electric Company. (See Case, Frank E., assignor.)

General Electric Company. (See Chadwick, Ralph H., assignor.)

General Electric Company. (See Chislet, Harry, assignor.)

General Electric Company. (See Christensen, Christen, assignor.)

General Electric Company. (See Collins, Edgar F., assignor.)

General Electric Company. (See Coolidge, William D., assignor.)

General Electric Company. (See Craighead, J. R., and Summerhayes, assignors.)

General Electric Company. (See Craighead, James R., assignor.)

General Electric Company. (See Creighton, Elmer E. F., assignor.)

General Electric Company. (See Crocker, Arthur T., assignor.)

General Electric Company. (See Crocker, Clarence T., assignor.)

General Electric Company. (See Dantsizen, Christian, assignor.)

General Electric Company. (See Dickinson, E. D., and Wilkinson, assignors.)

General Electric Company. (See Dickinson, Edgar D., assignor.)

General Electric Company. (See Doane, S. E., Burrows, and Sinclair, assignors.) (Reissue.)

General Electric Company. (See Doherty, Robert E., assignor.)

General Electric Company. (See Doran, John H., assignor.)

General Electric Company. (See Dorgeloh, George H., assignor.)

General Electric Company. (See Dunning, Raymond P., assignor.)

General Electric Company. (See Dushman, Saul, assignor.)

General Electric Company. (See Dwyer, William O., assignor.)

General Electric Company. (See Eaton, John, assignor.)

General Electric Company. (See Eddy, Boughton C., assignor.)

General Electric Company. (See Emmet, William L. R., assignor.)

General Electric Company. (See Faccioli, Guiseppe, assignor.)

General Electric Company. (See Fink, Colin G., assignor.)

General Electric Company. (See Frank, John J., assignor.)

General Electric Company. (See Franklin, Milton W., assignor.)

General Electric Company. (See French, Henry G., assignor.)

General Electric Company. (See Gillett, Walter, assignor.)

General Electric Company. (See Goldsmith, A. N., and Weinberger, assignors.)

General Electric Company. (See Goldsmith, Alfred N., assignor.)

General Electric Company. (See Gomborow, Joel, assignor.)

General Electric Company. (See Green, C. E., and Clough, assignors.)

General Electric Company. (See Gumaer, Percy W., assignor.)

General Electric Company. (See Hadley, Arthur L., assignor.)

General Electric Company. (See Hall, Chester I., assignor.)

General Electric Company. (See Hamilton, Walter L., assignor.)

General Electric Company. (See Harrison, Ward, assignor.)

General Electric Company. (See Hastings, Hammond C., assignor.)

General Electric Company. (See Heisler, Charles L., assignor.)

General Electric Company. (See Hendricks, Allan B., Jr., assignor.)

General Electric Company. (See Hobart, Henry M., assignor.)

General Electric Company. (See Hoffstetter and Rippl, assignors.)

General Electric Company. (See Hull, John I., assignor.)

General Electric Company. (See Hutt, Leonard E., assignor.)

General Electric Company. (See Ives, Charles A., assignor.)

General Electric Company. (See Jacobs, Ernest H., assignor.)

General Electric Company. (See Johannesen, Svend E., assignor.)

General Electric Company. (See Jones, Benjamin W., assignor.)

General Electric Company. (See Jones, Frank E., assignor.)

General Electric Company. (See Junggren, Oscar, assignor.)

General Electric Company. (See Katzung, George W., assignor.)

General Electric Company. (See Kearsley, William K., Jr., assignor.)

General Electric Company. (See Kierstead, Friend H., assignor.)

General Electric Company. (See Korthals-Altes, William C., assignor.)

Digitized by Google

Alphabetical list of patentees—Continued.

General Electric Company. (See Krone, Ward E., assignor.)
General Electric Company. (See Kubo, Masakichi, assignor.)
General Electric Company. (See Laird, Wesley E., assignor.)
General Electric Company. (See Langmuir, Irving, assignor.)
General Electric Company. (See Laycock, Harry A., assignor.)
General Electric Company. (See Layng, John F., assignor.)
General Electric Company. (See Lemp, Hermann, assignor.)
General Electric Company. (See Libby, Sam H., assignor.)
General Electric Company. (See Linebaugh, Jesse J., assignor.)
General Electric Company. (See London, William J. A., assignor.)
General Electric Company. (See Lord, Henry C., assignor.)
General Electric Company. (See Luckiesh, M., and Dewey, assignors.)
General Electric Company. (See Lum, Walter O., assignor.)
General Electric Company, The. (See McColl, Albert E., assignor.)
General Electric Company. (See McLain, Robert H., assignor.)
General Electric Company. (See Mackay, George M. J., assignor.)
General Electric Company. (See Macloskie, George, assignor.)
General Electric Company. (See Macmillan Campbell, assignor.)
General Electric Company. (See Mapelsden, Harold H., assignor.)
General Electric Company. (See Minor, W. F., Keller, and Ralph, assignors.)
General Electric Company. (See Moody, Walter S., assignor.)
General Electric Company. (See Moore, Roy W., assignor.)
General Electric Company. (See Morse, Harold F., assignor.)
General Electric Company. (See Moss, Sanford A., assignor.)
General Electric Company. (See Murphy, Edwin J., assignor.)
General Electric Company. (See Murphy, E. J., and Thompson, assignor.)
General Electric Company. (See Otis, Albert N., assignor.)
General Electric Company. (See Overman, William J., assignor.)
General Electric Company. (See Pacz, Aladar, assignor.)
General Electric Company. (See Parsons, Robert J., assignor.)
General Electric Company. (See Peek, Frank W., Jr., assignor.)
General Electric Company. (See Perry, Charles L., assignor.)
General Electric Company. (See Place, Claude W., assignor.)
General Electric Company. (See Porter, Willard E., assignor.)
General Electric Company. (See Priest, Edward D., assignor.)
General Electric Company. (See Quay, Emile J., assignor.)
General Electric Company. (See Reichold, Ludwig, assignor.)
General Electric Company. (See Rice, Chester S., assignor.)
General Electric Company. (See Rice, Richard H., assignor.)
General Electric Company. (See Randall, J. E., and Reser, assignors.)
General Electric Company. (See Richter, William, assignor.)
General Electric Company. (See Robb, George E., assignor.)
General Electric Company. (See Roxbrough, Frederick L., assignor.)
General Electric Company. (See Runner, Claude C., assignor.)
General Electric Company. (See Ruder, William E., assignor.)
General Electric Company. (See Sanborn, Arthur R., assignor.)
General Electric Company. (See Sargent, H. R., and Koch, assignors.)
General Electric Company. (See Sheldon, Lucian A., assignor.)
General Electric Company. (See Shivers, Paul F., assignor.)
General Electric Company. (See Shorey, John A., assignor.)
General Electric Company. (See Shuttleworth, Newton, assignor.)
General Electric Company. (See Standerwick, Reginald G., assignor.)
General Electric Company. (See Stearns, Ralph W., assignor.)
General Electric Company. (See Stephens, Howard O., assignor.)
General Electric Company. (See Steenstrup, Christian, assignor.)
General Electric Company. (See Stevens, George E., assignor.)
General Electric Company. (See Stone, C. W., and Hobart, assignors.)
General Electric Company. (See Stone, Fred L., assignor.)
General Electric Company. (See Swan, Alfred, assignor.)
General Electric Company. (See Taylor, William G., assignor.)
General Electric Company. (See Templeton, William B., signor.)
General Electric Company. (See Thompson, Louis W., assignor.)
General Electric Company. (See Thomson, Elihu, assignor.)
General Electric Company. (See Thomson, Stuart, assignor.)
General Electric Company. (See Tornberg, Knut, assignor.)
General Electric Company. (See Traver, Oliver C., assignor.)
General Electric Company. (See Treat, Robert, assignor.)
General Electric Company. (See Tritle, John F., assignor.)
General Electric Company. (See Troy, Matthew O., assignor.)
General Electric Company. (See Unger, Magnus, assignor.)
General Electric Company. (See Upp, John W., assignor.)
General Electric Company. (See Valk, Eugene E., assignor.)
General Electric Company. (See Van Aller, Tycho, assignor.)
General Electric Company. (See Van Amberg, Otto H., assignor.)
General Electric Company. (See Ver Planck, William E., assignor.)
General Electric Company. (See Wagner, R. E., and Laird, assignors.)
General Electric Company. (See Waite, Harry F., assignor.)
General Electric Company. (See Wedmore, Edmund B., assignor.)
General Electric Company. (See Weed, James M., assignor.)
General Electric Company. (See Welch, Alfred F., assignor.)
General Electric Company. (See Whitmyre, Clarence A., assignor.)
General Electric Company. (See Whitney, Willis R., assignor.)
General Electric Company. (See Wilkinson, James, assignor.)
General Electric Company. (See Wilson, Leonard, assignor.)
General Electric Company. (See Winter, Fred H., assignor.)
General Electric Company. (See Wood, James J., assignor.)
General Electric Company. (See Wooldridge, William J., assignor.)
General Electric Company. (See Wright, Daniel K., assignor.)
General Electric Company. (See Zimmer, Paul H., assignor.)
General Engineering Company. (See Genter, Albert L., assignor.)
General Engineering Company, The. (See Thornhill, Edwin B., assignor.)
General Fire Extinguisher Company. (See Loepsinger, Albert J., assignor.)
General Fireproofing Company, The. (See Coryell, William C., assignor.)
General Fireproofing Company, The. (See Herbert, Arthur W., assignor.)
General Heating Corporation of America. (See Pryce, Edmund H., assignor.)
General Indurating Corporation. (See Lander, Wintworth V., assignor.)
General Lead Batteries Company. (See Handler, Eugene, assignor.)
General Machine Works. (See Swartz and Richards, assignors.)
General Manufacturing Company. (See Hossie, F. C., and Wild, assignors.)
General Motors Company. (See Blackmore, John E. L., assignor.)
General Motors Corporation. (See De Waters, Enos A., assignor.)
General Motors Corporation. (See Emerson, William F., assignor.)
General Motors Corporation. (See Farr, Warren H., assignor.)
General Motors Corporation. (See Frisbie, Ray A., assignor.)
General Motors Corporation. (See Hamilton, Alexander C., assignor.)

Digitized by Google

General Motors Corporation. (See Mason, Arthur C., assignor.)
General Motors Corporation. (See Midgley, Thomas, Jr., assignor.)
General Motors Corporation. (See Ruos, Joseph R., assignor.)
General Motors Company. (See Short, Charles R., assignor.)
General Motors Corporation. (See Stranahan, Samuel A., assignor.)
General Motors Corporation. (See Sturt, Alfred T., assignor.)
General Motors Company. (See Sweet, Ernest E., assignor.)
General Motors Corporation. (See Whitten, Frank A., assignor.)
General Patent Manufacturing Company. (See Izsak, Ignace, assignor.)
General Patent Manufacturing Company. (See Jeffers, Owen R., assignor.)
General Petroleum Corporation. (See Cannon, H., Barbre, and Leslie, assignors.)
General Petroleum Corporation. (See Leslie, E. H., and Barbre, assignors.)
General Phonograph Manufacturing Company, The. (See Manson, Ray H., assignor.)
General Pressed Steel Metal Company. (See Banes, Walter D., assignor.)
General Railway Signal Company. (See Dodge, Lyman E., assignor.)
General Railway Signal Company. (See Dodgson, Frank L., assignor.)
General Railway Signal Company. (See Henry, William S., assignor.)
General Railway Signal Company. (See Howe, Winthrop K., assignor.)
General Railway Signal Company. (See Leake, Richard C., assignor.)
General Railway Signal Company. (See Lindner, John C., assignor.)
General Railway Signal Company. (See Ohlau, Henry, assignor.)
General Railway Signal Company. (See Taylor, Herbert B., assignor.)
General Railway Signal Company. (See Wight, Sedgwick N., assignor.)
General Railway Signal Company. (See Workman, William H., assignor.)
General Rubber Company. (See Slocum, Edward M., assignor.)
General Tire & Rubber Company, The. (See Denmire, Harold A., assignor.)
Generouss, James C., Westfield, Mass. Berry-picker. No. 1,362,285; Dec. 14; v. 281; p. 307.
Genest, Homer A., Hartford, Conn., assignor to Hartford-Fairmont Company, Canajoharie, N. Y. Shear mechanism for glass-working machines. No. 1,331,847; Feb. 24; v. 271; p. 590.
Genett, Levi E. (See Miles, Edward L., assignor.)
Geneva Cutlery Corporation. (See Unsinger, Philip H., assignor.)
Genin, John B., St. Albans, Vt., assignor of one-eighth to A. D. Denis, Montreal, Canada, and one-eighth to J. O. Goyette, Rouses Point, N. Y. Train-pipe coupling. No. 1,327,031; Jan. 6; v. 270; p. 29.
Genn, John E., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Vacuum fuel-feed device. No. 1,338,008; Apr. 27; v. 273; p. 641.
Genn, John E., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Spark-plug. No. 1,328,147; Jan. 13; v. 270; p. 299.
Genn, John E., assignor to Stewart-Warner-Speedometer Corporation, Chicago, Ill. Portable signal device. No. 1,344,082; June 22; v. 275; p. 666.
Genn, John E., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Vehicle-searchlight. No. 1,346,489; July 13; v. 276; p. 291.
Gensmer, Theodore. (See Bammer, P., and Gensmer.)
Gensmer, Theodore, and G. F. Lieberman, assignors to Nu Automatic Button Attaching Machine Company, Portland, Oreg. Machine for effecting orderly distribution of articles. No. 1,336,778; Apr. 13; v. 273; p. 263.
Gent, Wm., Vending Machine Company, The. (See Larsen, Arnold, assignor.)
Genter, Helen C., executrix. (See Genter, Jacob H.)
Genter, Jacob H., deceased, Newburgh, N. Y.; H. C. Genter, (now by marriage H. C. Hart,) executrix. Film mending and inspecting table. No. 1,331,563; Feb. 24; v. 271; p. 535.
Genter, Albert L. (See Becraft, F. W., and Genter.)
Genter, Albert L., assignor of one-half to General Engineering Company, Salt Lake City, Utah. Apparatus for continuously thickening mixtures. No. 1,359,162; Nov. 16; v. 280; p. 487.
Genthner, Charles M., assignor to The Reading Stove Works, Orr, Painter & Co., Reading, Pa. Combination-stove. No. 1,348,709; Aug. 3; v. 277; p. 112.
Gentile, Frank T., assignor of one-half to K. M. Kleeman, Canton, Ohio. Automatic sprinkler. No. 1,345,592 July 6; v. 276; p. 52.
Gentile, Gaetano, New York, N. Y. Macaroni-drying plant. No. 1,333,406; Mar. 9; v. 272; p. 284.
Gentle, Cuthbert, Winthrop, Mass. Coffee-urn. No. 1,359,355; Nov. 16; v. 280; p. 525.
Gentslinger, George, Wapakoneta, Ohio. Broom-holder. No. 1,351,638; Aug. 31; v. 277; p. 918.
Genuit, Edward H., Napoleon, Ohio. Automatic poultry-feeder. No. 1,359,691; Nov. 23; v. 280; p. 637.
Genung, Benjamin W., Ulysses, Pa. Jar-lifter. No. 1,341,502; May 25; v. 274; p. 744.
Genung, Charles W., Madison, Ohio. Multiple-seeder attachment for garden-tractors. No. 1,348,862; Aug. 10; v. 277; p. 193.
Genung, John W., *et al.* (See Landers, William M., assignor.)
Geoghegan, Edward A., Chicago, Ill., assignor to M. Kraemer and E. J. Talbott, trustees. Superheater. No. 1,327,032; Jan. 6; v. 270; p. 29.
George, Albert B., Haverhill, Mass. Wood heel. No. 1,356,861; Oct. 26; v. 279; p. 614.
George, Alexander W., assignor of one-half to S. H. Baer, Brooklyn, N. Y. Machine and method for shaping and assembling blanks. No. 1,346,490; July 13; v. 276; p. 291.
George, Clarence L., and H. Hart, assignors to Linotype and Machinery Limited, London, England. Typographical composing-machine. No. 1,351,288; Aug. 31; v. 277; p. 848.
George, Edward E. (See Spencer, William O., assignor.)
George, Eleanor V., New York, N. Y. Apparatus for cleaning phonograph-records. No. 1,339,700; May 11; v. 274; p. 272.
George, Enoch, Jr., assignor to The McConway & Torley Company, Pittsburgh, Pa. Railway draft appliance. No. 1,346,538; July 13; v. 276; p. 301.
George, Enoch, Jr., assignor to The McConway & Torley Company, Pittsburgh, Pa. Draft-rigging. No. 1,362,691; Dec. 21; v. 281; p. 437.
George, Enoch, Jr., assignor to The McConway & Torley Company, Pittsburgh, Pa. Coupling and draft-yoke connection. No. 1,364,047; Dec. 28; v. 281; p. 740.
George, Frank L., Los Angeles, Calif. Damper for grand-piano actions. No. 1,353,643; Sept. 21; v. 278; p. 474.
George, Frank L., Los Angeles, Calif. Damper for upright-piano actions. No. 1,353,644; Sept. 21; v. 278; p. 474.
George, Frank L., Los Angeles, Calif. Pianissimo device for upright-piano actions. No. 1,353,645; Sept. 21; v. 278; p. 474.
George, Frank L., Los Angeles, Calif. Touch-regulator for grand-piano actions. No. 1,353,646; Sept. 21; v. 278; p. 474.
George, Frank L., Los Angeles, Calif. Action for grand pianos. No. 1,353,647. Sept. 21; v. 278; p. 475.
George, Frank L., Los Angeles, Calif. Action-bracket for grand pianos. No. 1,353,648; Sept. 21; v. 278; p. 475.
George, Frank L., Los Angeles, Calif. Combination jack-spring and touch-regulator for upright-piano actions. No. 1,353,649; Sept. 21; v. 278; p. 475.
George, Frank L., Los Angeles, Calif. Action for upright pianos. No. 1,362,414; Dec. 14; v. 281; p. 332.
George, Harry F., Chicago, Ill. Steering-gear lock for automobiles. No. 1,339,329; May 4; v. 274; p. 125.
George, Henri, and J. Hebert, Paris, France. Electrical conductor. No. 1,334,850; Mar. 23; v. 272; p. 664.
George, Henri, Paris, France. Quartz mercury-vapor lamp. No. 1,361,710; Dec. 7; v. 281; p. 147.
George, Jerome R., assignor to Morgan Construction Company, Worcester, Mass. Transferring mechanism for metal rods or bars. No. 1,359,163; Nov. 16; v. 280; p. 487.
George, John H., assignor, by mesne assignments, to The Hawthorne Company, Bridgeport, Conn. Electrical connection. No. 1,348,128; July 27; v. 276; p. 731.
George, John W., Stroud Green, England. Rotary internal-combustion engine. No. 1,348,103; July 27; v. 276; p. 726.
George, John W., Stroud Green, London, England. Internal-combustion engine. No. 1,361,978; Dec. 14; v. 281; p. 247.
George, Maude S., St. Louis, Mo. Baby-pants. No. 1,329,119; Jan. 27; v. 270; p. 548.
George, Ollie C., Chicago, Ill. Assembling truck-bodies in knockdown form. No. 1,335,574; Mar. 30; v. 272; p. 859.
George, Ralph D., Kansas City, Mo. Motor-treadmill. No. 1,358,842; Nov. 16; v. 280; p. 427.
George, William C., and F. N. Nofsger, Humboldt, Nebr. Vehicle-hoisting device. No. 1,354,038; Sept. 28; v. 278; p. 596.
Georgeson, Frank, Red Granite, Wis. Hayrack. No. 1,353,229; Sept. 21; v. 278; p. 391.
Georgeson, William J., Oneonta, N. Y. Motor-driven gearing. No. 1,342,262; June 1; v. 275; p. 127.
Georgilas, George. (See Loetscher, Alvin A., assignor.)
Gerardy, Edward, Chandler, Okla. Indicator for hay-presses. No. 1,337,553; Apr. 20; v. 273; p. 484.
Geraghty, John P., Jersey City, N. J. Permutation-lock. No. 1,343,048; June 8; v. 275; p. 335.
Geraghty, John P., Jersey City, N. J. Locking device for automobiles. No. 1,343,049; June 8; v. 275; p. 335.
Gerard, William B *et al.* (See Litchfield, Charles T., assignor.)

Digitized by Google

Alphabetical list of patentees—Continued.

Gerau, George B., Miami, Fla., assignor of one-half to S. L. Smith, Williamsburg, Ky. Internal-combustion engine. No. 1,352,187; Sept. 7; v. 278; p. 90.
Gerbaud, Charles E., Paris, France. Sparking plug for internal-combustion engines and manufacturing same. No. 1,347,367; July 20; v. 276; p. 523.
Gerben, Charles, New York, N. Y. Automobile-lock. No. 1,354,963; Oct. 5; v. 279; p. 103.
Gerber, Frederick A., New York, N. Y. Removable window-frame. No. 1,363,770; Dec. 28; v. 281; p. 687.
Gerber, George G., Portland, Oreg. Radiator-support. No. 1,357,397; Nov. 2; v. 280; p. 38.
Gerber, Martin, Iowa City, Iowa. Automobile-radiator casing. No. 1,348,710; Aug. 3; v. 277; p. 112.
Gerber, Otto, Witten-on-the-Ruhr, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Ceramic composition. No. 1,336,740; Apr. 13; v. 273; p. 256.
Gerber, Viktor, Zurich, Switzerland. Producing nitrid of aluminium from materials containing aluminic oxid. No. 1,350,149; Aug. 17; v. 277; p. 518.
Gerber, Viktor, Zurich, Switzerland. Producing aluminium from aluminic oxid. No. 1,350,150; Aug. 17; v. 277; p. 518.
Gerberich, Clarence E., assignor to Lyon Metallic Manufacturing Company, Aurora, Ill. Truck-skid. No. 1,331,704; Feb. 24; v. 271; p. 562.
Gerbig, Philip M., Alton, assignor of one-half to F. O. White, Belleville, Ill. Vehicle-awning. No. 1,336,953; Apr. 13; v. 273; p. 297.
Gerdeman, Frank H. (See White, P. H., and Gerdeman.)
Gerdien, Hans, Berlin-Schmargendorf, assignor to Siemens & Halske Aktiengesellschaft, Berlin, Germany. Arrangement for evacuating gases from vessels. No. 1,335,829; Apr. 6; v. 273; p. 24.
Gerlin, George P., and M. Mauran, Niagara Falls, N. Y., assignors to the Nitrogen Corporation, Providence, R. I. Forming a mixture of hydrogen and nitrogen for ammonia synthesis. No. 1,349,756; Aug. 17; v. 277; p. 443.
Gerhard, Werner, Chicago, Ill. Impact-machine. No. 1,327,817; Jan. 13; v. 270; p. 287.
Gerhard, William H., Austin, Tex. Tobacco-pipe. No. 1,329,396; Feb. 3; v. 271; p. 10.
Gerhardt, Leonard, assignor to Tin Decorating Company, Baltimore, Md. Apparatus for testing the leakage qualities of blanks. No. 1,359,799; Nov. 23; v. 280; p. 659.
Gerhardt, Leonard, assignor to The Tin Decorating Company of Baltimore, Baltimore, Md. Pick-off apparatus. No. 1,362,286; Dec. 14; v. 281; p. 807.
Gerhart, Jacob G., Fredericksburg, Pa. Air-pump. No. 1,351,847; Sept. 7; v. 278; p. 27.
Gericke, Alexander A., Detroit, Mich. Adjustable die. No. 1,348,403; Aug. 3; v. 277; p. 54.
Gerke, Frederic L., New York, N. Y. Non-glare headlight. No. 1,354,739; Oct. 5; v. 279; p. 58.
Gerke, Joseph and N., and E. C. Williams, Milwaukee, Wis. Indicator for automobiles. No. 1,343,361; June 15; v. 275; p. 459.
Gerke, Nicholas. (See Gerke, J. and N., and Williams.)
Gerli, Paul, and O. A. Ross, New York, N. Y. Range-finding and sighting instrument. No. 1,339,450; May 11; v. 274; p. 224.
Gerli, Paul, and O. A. Ross, New York, N. Y. Artillery-airplane or the like. No. 1,342,802; June 8; v. 275; p. 286.
Gerli, Paul, and O. A. Ross, New York, N. Y. Apparatus for reclaiming solvents. No. 1,345,083; June 29; v. 275; p. 925.
Gerlinger Steel Casting Co. (See Menningen, Adolph C., assignor.)
German-American Button Co. (See Hastings, Herbert, assignor.)
Germain, John T., Brainerd, Minn. Planter. No. 1,361,043; Dec. 7; v. 281; p. 12.
Germain, David R., Detroit, Mich. Paper-vending machine. No. 1,334,299; Mar. 23; v. 272; p. 559.
Germanson, Julius M., assignor of one-half to Milwaukee Steel Foundry Co., Milwaukee, Wis. Molding-flask. No. 1,333,971; Mar. 16; v. 272; p. 452.
Germaszewski, Pioter, South East Cleveland, Ohio. Wall-paper-hanging implement. No. 1,346,647; July 13; v. 276; p. 322.
Germer Stove Company. (See Ball, Arlington L., assignor.)
Germproof Cup Corporation. (See Avery, B. B., and Nelson, assignors.)
Germproof Cup Corporation. (See Avery, Benjamin B., assignor.)
Gernandt Motor Corporation. (See Gernandt, Waldo G., assignor.)
Gernandt, Waldo G., Chicago, Ill. Compound quick-combustion engine. No. 1,347,087; July 20; v. 276; p. 468.
Gernandt, Waldo G., assignor to Gernandt Motor Corporation, Chicago, Ill. High-compression quick-combustion engine. No. 1,359,498; Nov. 23; v. 280; p. 599.
Gernandt, Waldo G., assignor to Gernandt Motor Corporation, Chicago, Ill. High-pressure combustion-engine. No. 1,361,044; Dec. 7; v. 281; p. 18.
Gernandt, Waldo G., assignor to Gernandt Motor Corporation, Chicago, Ill. Fuel-injector for high-compression internal-combustion engines. No. 1,361,711; Dec. 7; v. 281; p. 147.
Gernsbacher, Aaron H., New Orleans, La. Safe. No. 1,341,899; June 1; v. 275; p. 56.
Gernsback, Hugo, New York, N. Y. Telephone-headband. No. 1,329,658; Feb. 3; v. 271; p. 58.
Gernsback, Hugo, New York, N. Y. Electromagnetic sounding device. No. 1,354,389; Sept. 28; v. 278; p. 667.
Gerrans, Benjamin H. (See Cassal, N. C. and C. E., and Gerrans.)
Gerrish, Edward L., Elk Grove, Calif. Coupling. No. 1,348,277; Aug. 3; v. 277; p. 29.
Gerrish, Edward W., Lynn, Mass. Last. No. 1,338,650; Apr. 27; v. 273; p. 761.
Gerritson, Jacob, and W. L. Rieck, Kankakee, Ill. Bulkhead structure. No. 1,350,603; Aug. 24; v. 277; p. 653.
Gerrity, Joe A. (See Fairtrace, George D., assignor.)
Gerry, Wilfred E., Chicago, Ill., assignor to The Wahl Company, Wilmington, Del. Chart for fountain-pens. No. 1,351,564; Aug. 31; v. 277; p. 904.
Gershkoff, Abraham, Providence, R. I. Automobile-radiator. No. 1,354,964; Oct. 5; v. 279; p. 103.
Gerstein, Frank, Toronto, Ontario, Canada. Automobile-indicator. No. 1,359,356; Nov. 16; v. 280; p. 526.
Gerstle, John, assignor to The Electro Chemical Company, Dayton, Ohio. Electrolytic cell. No. 1,342,378; June 1; v. 275; p. 149.
Gertler, Hyman, assignor to B. Levinson, Montreal, Quebec, Canada. Bed-frame. No. 1,359,692; Nov. 23; v. 280; p. 637.
Gertz, Richard W., Brookline, Mass. Piano. No. 1,353,903; Sept. 28; v. 278; p. 568.
Gertz, Richard W., Brookline, Mass. Agraffe. No. 1,353,904; Sept. 28; v. 278; p. 568.
Gertz, Richard W., Brookline, Mass. Piano-action. No. 1,353,905; Sept. 28; v. 278; p. 568.
Gervais, Wainwright B., assignor to Variety Manufacturing Company, Chicago, Ill. Counterbalanced fire-shutter. No. 1,353,333; Sept. 21; v. 278; p. 411.
Gervasoni, Pietro, and A. Zecchini, assignors to G. Ratti, Turin, Italy. Apparatus for indicating the level of liquids at distance. No. 1,347,944; July 27; v. 276; p. 694.
Gerwen, Julius A., assignor to Moline Mill Manufacturing Company, Moline, Ill. Grinding-mill. No. 1,359,357; Nov. 16; v. 280; p. 526.
Gesell, Frank A., Los Angeles, Calif. Controlling means for saving systems combined with insurance protection. No. 1,329,120; Jan. 27; v. 270; p. 548.
Geslani, Telesforo C., Olongapo, Zamb, Philippine Islands. Automatic lighter. No. 1,353,334; Sept. 21; v. 278; p. 411.
Gessler, Frederick A., Martins Ferry, Ohio. Milking-machine. No. 1,333,972; Mar. 16; v. 272; p. 452.
Gestetner, David, London, England. Duplicating, manifolding, and the like. No. 1,354,478; Oct. 5; v. 279; p. 6.
Getchell, Benjamin E., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Electric switch. No. 1,327,383; Jan. 6; v. 270; p. 94.
Getman, David D., Minneapolis, Minn., and J. P. Sternhagen, Glasgow, Mont.; said Getman assignor to said Sternhagen. Flat-tire signal. No. 1,346,599; July 13; v. 276; p. 313.
Getman, David D., White Butte, S. D. Carbon-cutter. No. 1,357,632; Nov. 2; v. 280; p. 81.
Getman, David D., White Butte, S. D. Tire-charging tube and tester. No. 1,357,633; Nov. 2; v. 280; p. 82.
Getts, Frank E., assignor to Electrical Engineers Equipment Company, Chicago, Ill. Locking-switch. No. 1,339,506; May 11; v. 274; p. 235.
Getty, William. (See Rice, Arlo E., assignor.)
Getz, Benjamin E., assignor to A. F. Meyer Mfg. Co., Morton, Ill. Grain-elevator. No. 1,353,335; Sept. 21; v. 278; p. 411.
Getz, Benjamin E., assignor to A. F. Meyer Mfg. Co., Morton, Ill. Elevator. No. 1,353,336; Sept. 21; v. 278; p. 411.
Geurink, Harry J., assignor to The Vulcan Brass Mfg. Co., Cleveland, Ohio. Self-closing faucet. No. 1,331,865; Feb. 24; v. 271; p. 593.
Geyer, Hobart W. (See Van Valer, De Witt C., assignor.)
Geyer, Jakob, Cleveland, Ohio. Fluid-fuel burner. No. 1,334,747; Mar. 23; v. 272; p. 644.
Geyer, Mary R., Pittsburgh, Pa. Safety-envelop. No. 1,349,061; Aug. 10; v. 277; p. 232.
Geyer, Philip. (See Gruss, A. G., and Geyer.)
Ghent, George A., Buhl, Idaho. Land-leveling machine. No. 1,337,355; Apr. 20; v. 273; p. 448.
Gherardi, Bancroft, Bayhead, N. J., assignor to American Telephone and Telegraph Company. Anti-abrasion cable-support. No. 1,336,558; Apr. 13; v. 273; p. 221.
Ghijsen, Huibert C., assignor to N. V. The Vitrite Works, Middelburg, Netherlands. Apparatus for the manufacturing and adjustment of contact-plates in Swan lamp-bases. No. 1,331,755; Feb. 24; v. 271; p. 572.

Digitized by Google

Ghijsen, Hulbert C., assignor to N. V. Vitrite Works, Middelburg, Netherlands. Manufacturing and adjustment of contact-plates in Swan-lamp bases. No. 1,340,041; May 11; v. 274; p. 336.
Ghittino, Alexander, New York, N. Y. Combined folding bed and bureau. No. 1,350,720; Aug. 24; v. 277; p. 676.
Giacoletto, Savino, Hancock, Mich. Brake. No. 1,345,165; June 29; v. 275; p. 941.
Giacomelli, Nazzareno, Newburgh, N. Y. Rail-chair. No. 1,348,794; Aug. 3; v. 277; p. 128.
Giangiopo, Giuseppe, Cleveland, Ohio. Gunnery-training apparatus. No. 1,354,182; Sept. 28; v. 278; p. 625.
Giant Auto Bumper Co. (See Di Salvo, Joseph, assignor.)
Giardino, Anthony, Brockton, Mass. Clasp. No. 1,344,500; June 22; v. 275; p. 748.
Giauque, Pierre L. A., Levallois-Perret, France, assignor to Societe Anonyme Des Automobiles & Cycles Peugeot, Paris, France. Packing device for valve-rods or explosion-engines. No. 1,348,936; Aug. 10; v. 277; p. 208.
Gibb, Walton, assignor to Alexander Brothers, Philadelphia, Pa. Joining leather and joint made thereby. No. 1,335,830; Apr. 6; v. 273; p. 24.
Gibbons, Charles H., and J. P. Cleal, Toronto, Ontario, Canada. Phonograph-starting device. No. 1,338,365; Apr. 27; v. 273; p. 708.
Gibbens, Clyde L., Madison, Wis. Shoe-polisher. No. 1,330,313; Feb. 10; v. 271; p. 212.
Gibbons, Francis J., Wolverhampton, England. Metal window frame and sash of the sliding-sash type. No. 1,345,669; July 6; v. 276; p. 67.
Gibbons, Fred, Yorkton, Saskatchewan, Canada. Safety-stirrup. No. 1,357,161; Oct. 26; v. 279; p. 672.
Gibbons, Nathan A., Martins Ferry, Ohio. Can-heading device. No. 1,355,465; Oct. 12; v. 279; p. 253.
Gibbons, Willis A., Flushing, N. Y., assignor to American Rubber Company. Coloring fibrous material. No. 1,332,982; Mar. 9; v. 272; p. 206.
Gibbons, Willis A., Flushing, N. Y., assignor to American Rubber Company. Vulcanizing rubber and similar materials. No. 1,350,798; Aug. 24; v. 277; p. 691.
Gibbs, Alfred J., Hay Springs, Nebr. Push-rake. No. 1,350,218; Aug. 17; v. 277; p. 531.
Gibbs, Alonzo L., assignor of one-half to O. W. Munch, Wagoner, Okla. Refrigerating-machine. No. 1,345,001; June 29; v. 275; p. 909.
Gibbs, Dwight H., San Francisco, Calif. Misframe-indicator for moving-picture films. No. 1,334,028; Mar. 16; v. 272; p. 463.
Gibbs, Frank H., Portland, Oreg. Display-cabinet. No. 1,330,181; Feb. 10; v. 271; p. 188.
Gibbs, Frederick H., Brooklyn, assignor to W. H. Woodin, New York, N. Y. Wheel-attaching device for mine-cars and other purposes. No. 1,346,193; July 13; v. 276; p. 232.
Gibbs, John C., Lancaster, Pa. Ice-cream freezer. No. 1,334,748; Mar. 23; v. 272; p. 644.
Gibbs, Robert, Portland, Oreg. Skirt-hanger. No. 1,350,219; Aug. 17; v. 277; p. 531.
Gibbs, Walter A., Church Creek, Md. Trap. No. 1,333,016; Mar. 9; v. 272; p. 212.
Gibbs, Walter A., Wilmington, Del. Trap. No. 1,333,017; Mar. 9; v. 272; p. 212.
Gibby, George H. (See Dodd, Charles H., assignor.)
Gibby, Samuel, Boston, Mass. Sign. No. 1,352,661; Sept. 14; v. 278; p. 219.
Giblin, Thomas P., Pawtucket, assignor to Commercial Radio Company of America, Providence, R. I. Electrical coil. No. 1,342,209; June 1; v. 275; p. 117.
Gibney, James W., assignor to W. P. Taylor Company, Buffalo, N. Y. Cover for service-boxes. No. 1,349,610; Aug. 17; v. 277; p. 414.
Gibney, Joseph J., Motley, Minn. Auxiliary wheel. No. 1,360,921; Nov. 30; v. 280; p. 947.
Gibraltar Tire & Rubber Company. (See Strang, Fred W., assignor.)
Gibson, Adelbert R., Chicago, Ill., assignor, by mesne assignments, to Essentials Mfg. Company. Headlight-lens. No. 1,346,705; July 13; v. 276; p. 334.
Gibson, Alexander, Kendal, England. Footplate for shovels and the like. No. 1,331,495; Feb. 24; v. 271; p. 522.
Gibson, Angus H., Salt Lake City, Utah. Centrifugal machine. No. 1,336,779; Apr. 13; v. 273; p. 263.
Gibson, Arthur H., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Centrifugal brake for power-trucks. No. 1,352,060; Sept. 7; v. 278; p. 67.
Gibson, Bedell, Nicholls, Ga. Automatic nut-tightening device. No. 1,327,152; Jan. 6; v. 270; p. 51.
Gibson, Benjamin, and A. Fuller, Hill City, Kans. Silo-brace. No. 1,339,701; May 11; v. 274; p. 273.
Gibson, Cecil C., Atlanta, Ga. Convertible chair and carriage. No. 1,355,039; Oct. 5; v. 279; p. 117.
Gibson, Charles R., *et al.* (See Baumgardner, Frank J., assignor.)
Gibson, David L., Parnell, Auckland, New Zealand. Skip for hauling coal and other cargo. No. 1,342,018; June 1; v. 275; p. 79.
Gibson, Edward T., Brooklyn, N. Y. Game-board. No. 1,352,510; Sept. 14; v. 278; p. 188.
Gibson, F. I. (See Shuey, Philip McG., assignor.)
Gibson, Francis W., West Roxbury, Mass. Signboard. No. 1,342,538; June 8; v. 275; p. 234.
Gibson, Frederick J., Oakland, Calif. Amusement device. No. 1,333,407; Mar. 9; v. 272; p. 285.
Gibson, Freeman L., Savannah, Ga. Apparatus and process for the continuous distillation of liquids. No. 1,340,653; May 18; v. 274; p. 510.
Gibson, George H., Harvey, Ill. Tank-car. No. 1,348,404; Aug. 3; v. 277; p. 54.
Gibson, George H., Montclair, N. J. Furnace regulation. No. 1,360,285; Nov. 30; v. 280; p. 823.
Gibson, Harlon O., and E. F. Ames, Wayland, N. Y.; said Gibson assignor to said Ames. Holder for motor-vehicles. No. 1,346,949; July 20; v. 276; p. 441.
Gibson, James S. (See Prior, William and W. L., and Gibson.)
Gibson, James W., Moberly, Mo. Checkrow-planter. No. 1,331,102; Feb. 17; v. 271; p. 430.
Gibson, John A., Edmonton, Alberta, Canada. Soil-tiller. No. 1,333,911; Mar. 16; v. 272; p. 440.
Gibson, John H., Bruin, Pa. Window-sash holder. No. 1,346,449; July 13; v. 276; p. 283.
Gibson, John H., Little Falls, Minn. Nailing mechanism. No. 1,348,711; Aug. 3; v. 277; p. 112.
Gibson, Lewis, *et al.* (See Ash, Richard L., assignor.)
Gibson Mandolin-Guitar Co. (See Reams, A. J., Jr., and Williams, assignors.)
Gibson, Marshal D., Webster Groves, Mo. Washing-machine. No. 1,339,818; May 11; v. 274; p. 294.
Gibson, Marshall D., Webster Groves, Mo. Washing-machine. No. 1,354,613; Oct. 5; v. 279; p. 33.
Gibson, Samuel H., assignor to The Fanner Manufacturing Company, Cleveland, Ohio. Metal-bending machine. No. 1,348,215; Aug. 3; v. 277; p. 16.
Gibson, Walter I., assignor of one-third to E. R. Greenlaw, and one-third to F. M. Mills, New Orleans, La. Sectional radiator. No. 1,347,219; July 20; v. 276; p. 493.
Gibson, William, Belfast, Ireland. Ring-spinning apparatus. No. 1,333,169; Mar. 9; v. 272; p. 240.
Gibson, William. Pittsburgh, Pa. Brake-shoe. No. 1,349,126; Aug. 10; v. 277; p. 245.
Gibson, William, Pittsburgh, Pa. Brake-shoe. No. 1,349,127; Aug. 10; v. 277; p. 245.
Gibson, William, Pittsburgh, Pa. Brake-shoe. No. 1,349,128; Aug. 10; v. 277; p. 245.
Gibson, William, Pittsburgh, Pa. Brake-shoe. No. 1,349,129; Aug. 10; v. 277; p. 245.
Gibson, William, Liverpool, England. Pattern for making molds in which metals are cast. No. 1,349,829; Aug. 17; v. 277; p. 456.
Gibson, William A. (See Jeffries, Z., and Gibson.)
Gibson, William A., and C. E. Needham, Allentown, Pa. assignors to Bradley Pulverizer Company, Boston, Mass. Air-separator. No. 1,346,015; July 6; v. 276; p. 136.
Gibson, William E. F., and I. M. James, Port Coquitlam, British Columbia, Canada. Automobile-signal. No. 1,340,537; May 18; v. 274; p. 487.
Gibson, William F., Wytheville, Va. Tram-car. No. 1,355,466; Oct. 12; v. 279; p. 253.
Gibson, William W., San Francisco, Calif. Gyratory crushing-mill. No. 1,344,584; June 22; v. 275; p. 765.
Giddens, Francis, Ottawa, Ontario, Canada. Incubator. No. 1,345,593; July 6; v. 276; p. 52.
Gidding, Fred, *et al.* (See Loyd, Clarence E., assignor.)
Giddings, Hiram W., Mansford, Wash. Clothes-drier. No. 1,350,367; Aug. 24; v. 277; p. 606.
Gidley, Nicholas M., Oxford, Ala. Automatic mill-stop. No. 1,341,268; May 25; v. 274; p. 698.
Giebel, Julius, and F. H. Zimmerman; said Giebel assignor to The Herbrand Company, Fremont, Ohio. Manufacturing dies and a hub or sinker therefor. (Reissue.) No. 14,835; Apr. 6; v. 273; p. 133.
Giebeler-Wanke, Christoph A., New York, N. Y. Jointed doll. No. 1,348,216; Aug. 3; v. 277; p. 16.
Giebeler-Wanke, Christoph A., New York, N. Y. Eye-mounting for dolls' heads. No. 1,361,847; Dec. 14; v. 281; p. 220.
Gielen, Peter G., Paterson, N. J. Loom. No. 1,336,741; Apr. 13; v. 273; p. 256.
Gielen, Peter G., Paterson, N. J. Loom. No. 1,362,287; Dec. 14; v. 281; p. 308.
Gierymski, Stanley F., Kensington, and P. Pietrzycki, Hartford, Conn. Drill-cutting machine. No. 1,360,389; Nov. 30; v. 280; p. 843.
Gies, Frank G., and E. R. Lewis, assignors, by mesne assignments, to Hercules Machinery Company, Detroit, Mich. Arbor-press. No. 1,330,462; Feb. 10; v. 271; p. 240.
Giese, John F., Portland, Oreg. Tire-tool. No. 1,358,948; Nov. 16; v. 280; p. 448.
Giese, Richard S., Pittsburgh, Pa. Electric-light fixture. No. 1,331,756; Feb. 24; v. 271; p. 572.
Giese, Richard S., Pittsburgh, Pa. Electric side light. No. 1,348,104; July 27; v. 276; p. 727.
Giesecke, Adolph, Buffalo, N. Y. Recovering protein and phosphates of calcium and magnesium from acid waste waters. No. 1,348,990; Aug. 10; v. 277; p. 218.
Giesecke, Adolph, Buffalo, N. Y. Recovering protein and phosphate of calcium and magnesium from acid waste waters. No. 1,354,822; Oct. 5; v. 279; p. 75.

Digitized by Google

Alphabetical list of patentees—Continued.

Giesecke, William E., assignor to Ray Bros. Corporation, New York, N. Y. Leaching-tank. No. 1,330,463; Feb. 10; v. 271; p. 240.
Giesecke, William E., assignor to Ray Bros. Corporation, New York, N. Y. Leaching and obtaining nitrates and chlorids. No. 1,357,973; Nov. 9; v. 280; p. 208.
Gieser, Carl, and G. Shaffer, Des Moines, Iowa; said Shaffer assignor to said Gieser. Valve-grinding tool. No. 1,346,783; July 13; v. 276; p. 350.
Giesler, Jean V., assignor to The Fulton Company, Knoxville, Tenn. Fuel-regulating device. No. 1,330,700; Feb. 10; v. 271; p. 285.
Giesler, Jean V., assignor to The Fulton Company, Knoxville, Tenn. Regulating device for thermostatically-controlled valves. No. 1,354,740; Oct. 5; v. 279; p. 58.
Giesy, John, Tacoma, Wash. Feeding device. No. 1,361,045; Dec. 7; v. 281; p. 13.
Gietzen, Peter J., Glen Ullin, N. D. Tractor. No. 1,345,166; June 29; v. 275; p. 941.
Giffin, Harrie M., Jamaica Plain, Mass. Clutch. No. 1,355,139; Oct. 12; v. 279; p. 189.
Giffin, John M. (See Roberts, F., and Giffin.)
Giffin, Otho L., Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey. Rope-hook. No. 1,361,249; Dec. 7; v. 281; p. 53.
Gifford, Bert L., assignor to Gifford Manufacturing Company, Incorporated, Barker, N. Y. Spraying device. No. 1,361,979; Dec. 14; v. 281; p. 247.
Gifford, Chester D., *et al.* (See Burbey, George A., assignor.)
Gifford, Clayton J., Manton, Mich. Cultivator. No. 1,336,217; Apr. 6; v. 273; p. 97.
Gifford Manufacturing Company. (See Gifford, Bert L., assignor.)
Gifford-Wood Company. (See Wood, Harold B., assignor.)
Gigliatti, William, North Adams, Mass. Dirigible control. No. 1,360,922; Nov. 30; v. 280; p. 947.
Giglio, John, New York, N. Y. Piano-pedal. No. 1,340,162; May 18; v. 274; p. 417.
Gilardini, Felice, Turin, Italy. Manufacturing belts. No. 1,360,923; Nov. 30; v. 280; p. 947.
Gilardini, Felice, Turin, Italy. Process and apparatus for the instantaneous tannage of hides and skins. No. 1,363,771; Dec. 28; v. 281; p. 687.
Gilarski, Frank, Chicago, Ill. Collapsible life-net. No. 1,360,924; Nov. 30; v. 280; p. 947.
Gilbert, A. C., Company, The. (See Erhardt, Oscar P., assignor.)
Gilbert, A. C., Company, The. (See Gilbert, Alfred C., assignor.)
Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Toy building construction. No. 1,329,706; Feb. 3; v. 271; p. 67.
Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Toy submarine. No. 1,344,632; June 29; v. 275; p. 839.
Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Toy submarine. No. 1,351,565; Aug. 31; v. 277; p. 904.
Gilbert & Barker Manufacturing Company. (See Davis, John B., assignor.)
Gilbert, Battle B., Huntington, W. Va., assignor of one-half to W. J. Fields, Olive Hill, Ky. Box cooking kit. No. 1,330,862; Feb. 17; v. 271; p. 383.
Gilbert, Charles E., North Chichester, N. H. Chuck. No. 1,352,951; Sept. 14; v. 278; p. 277.
Gilbert, Daniel J., assignor to The Fafnir Bearing Company, New Britain, Conn. Oiling and protecting means for ball-bearings, &c. No. 1,337,597; Apr. 20; v. 273; p. 493.
Gilbert, Fred B., Modesto, Calif. Feeding device. No. 1,343,817; June 15; v. 275; p. 549.
Gilbert, Frederick B., Modesto, Calif. Gate-operating mechanism. No. 1,337,897; Apr. 20; v. 273; p. 550.
Gilbert, George A., Brewster, and G. H. Stephens, assignors of one-third to D. M. Stephens, Patterson, N. Y. Car-step. No. 1,341,310; May 25; v. 274; p. 706.
Gilbert, Henry J., assignor to Saginaw Manufacturing Company, Saginaw, Mich. Pulley. No. 1,363,772; Dec. 28; v. 281; p. 687.
Gilbert, John L. (See Lassen, J. J., and Gilbert.)
Gilbert, John T., De Funiak Springs, Fla. Device for use in buying ice. No. 1,337,836; Apr. 20; v. 273; p. 538.
Gilbert, Joseph M. (See Carlisle, Fred B., assignor.)
Gilbert, Samuel H. (See Walker, Frank H., assignor.)
Gilbert, William L., Clock Company. (See Hyde, Charles H., assignor.)
Gilbert, William W. Santa Ana, Calif. Pattern for cutting half-soles. No. 1,339,702; May 11; v. 274; p. 273.
Gilberthorpe, George L., assignor to R. C. Phillips, Sydney, New South Wales, Australia. Latching device for casement-windows, doors, and gates. No. 1,359,800; Nov. 23; v. 280; p. 659.
Gilbertson, Otto M., La Crosse, Wis. Railway-mail-delivering apparatus. No. 1,353,738; Sept. 21; v. 278; p. 492.
Gilbertson, Roy A. (See South, Thomas W., assignor.)
Gilchrist, John L., Wilkinsburg, Pa. Bubble-pipe. No. 1,330,701; Feb. 10; v. 271; p. 285.
Gilden, Peter J., San Francisco, Calif. Well-making apparatus. No. 1,331,103; Feb. 17; v. 271; p. 430.
Gildersleeve, Willis W., Disston, Oreg. Saw-gage attachment. No. 1,356,862; Oct. 26; v. 279; p. 614.
Gile, Fred H., Saugus, assignor, by mesne assignments, to G. K. Woodworth, trustee, Brookline, Mass. Internal-combustion engine. No. 1,335,320; Mar. 30; v. 272; p. 812.
Gile, Fred H., Cliftondale, assignor, by mesne assignments, to G. K. Woodworth, trustee, Brookline, Mass. Internal-combustion engine. No. 1,335,321; Mar. 30; v. 272; p. 812.
Gile, Fred H., Cliftondale, assignor, by mesne assignments, to G. K. Woodworth, trustee, Brookline, Mass. Internal-combustion engine. No. 1,335,322; Mar. 30; v. 272; p. 812.
Gile, Fred H., Cliftondale, assignor, by mesne assignments, to G. K. Woodworth, trustee, Brookline, Mass. Internal-combustion engine. No. 1,335,323; Mar. 30; v. 272; p. 813.
Gile, Fred H., Cliftondale, assignor, by mesne assignments, to G. K. Woodworth, trustee, Brookline, Mass. Internal-combustion engine. No. 1,335,329; Mar. 30; v. 272; p. 814.
Gile, Richard F., Cliftondale, assignor, by mesne assignments, to G. K. Woodworth, trustee, Brookline, Mass. Internal-combustion engine. No. 1,335,325; Mar. 30; v. 272; p. 813.
Gile, Richard F., Cliftondale, assignor, by mesne assignments, to G. K. Woodworth, trustee, Brookline, Mass. Internal-combustion engine. No. 1,335,326; Mar. 30; v. 272; p. 813.
Gile, Richard F., Saugus, assignor, by mesne assignments, to G. K. Woodworth, trustee, Brookline, Mass. Internal-combustion engine. No. 1,335,327; Mar. 30; v. 272; p. 813.
Gile, Richard F., Cliftondale, assignor, by mesne assignments, to G. K. Woodworth, trustee, Brookline, Mass. Internal-combustion engine. No. 1,335,328; Mar. 30; v. 272; p. 814.
Gile, William A., Cliftondale, assignor, by mesne assignments to G. K. Woodworth, trustee, Brookline, Mass. Internal-combustion engine. No. 1,335,324; Mar. 30; v. 272; p. 813.
Giles, Arch C., Hanceville, Ala. Well-curb. No. 1,341,551; May 25; v. 274; p. 753.
Giles, Charles F., Louisville, Ky., assignor, by mesne assignments, to Walter P. Murphy, Chicago, Ill. Metal car end. No. 1,351,566; Aug. 31; v. 277; p. 904.
Giles, Chesley T. J., Greenville, S. C. Shutter-hanger. No. 1,357,162; Oct. 26; v. 279; p. 672.
Giles, David J., McKeesport, Pa. Reducing Tungsten ores. No. 1,348,356; Aug. 3; v. 277; p. 45.
Giles, Edgar B., Los Angeles, Calif. Trestle-joint. No. 1,352,188; Sept. 7; v. 278; p. 91.
Giles, Henry G. (See Hodgdon, H. W., and Giles.)
Gilfillan Bros. Smelting & Refining Company. (See Howard, Earl H., assignor.)
Gilfillan, Edward S., Boise, Idaho. Air-circulation garment. No. 1,360,390; Nov. 30; v. 280; p. 843.
Gilfillan, Edward S., Boise, Idaho. Air-pumping garment. No. 1,360,391; Nov. 30; v. 280; p. 843.
Gilkes, Gilbert, & Company, (Ltd.) (See Bennett, George H., assignor.)
Gill, Augustus H., Belmont, Mass. Direct-reading solution-indicator. No. 1,359,455; Nov. 16; v. 280; p. 546.
Gill, Carl L., Philadelphia, Pa. Wind-motor. No. 1,359,693; Nov. 23; v. 280; p. 637.
Gill, Charles H., Chicago, Ill. Stylus for sound-reproducing machines. No. 1,329,882; Feb. 3; v. 271; p. 91.
Gill, Charles H., Chicago, Ill. Automatic winding mechanism for springs. No. 1,332,870; Mar. 2; v. 272; p. 132.
Gill, Charles H., Chicago, Ill. Governor for motors. No. 1,350,018; Aug. 17; v. 277; p. 492.
Gill, Charles H., Chicago, Ill. Washable garter. No. 1,361,713; Dec. 7; v. 281; p. 147.
Gill, Edwin R., Yonkers, N. Y. Storing and delivering apparatus. No. 1,348,490; Aug. 3; v. 277; p. 70.
Gill, George W., Battle Creek, Mich. Car-coupling. No. 1,340,538; May 18; v. 274; p. 488.
Gill, Harry R., Ashland, Ohio. Machine for forming rolls on toy balloons. No. 1,346,706; July 13; v. 276; p 334.
Gill, Henry T., and H. Lucas, assignors of one-third to J. Potter, Edgbaston, Birmingham, England. Safety-razor. No. 1,333,306; Mar. 9; v. 272; p. 266.
Gill, Middleton S., San Francisco, Calif. Piston-ring. No. 1,354,547; Oct. 5; v. 279; p. 20.
Gill, Middleton S., San Francisco, Calif. Piston-ring. No. 1,354,548; Oct. 5; v. 279; p. 21.
Gill, Robert A., Berlin, N. H. Cuff-link. No. 1,333,018; Mar. 9; v. 272; p. 212.
Gilland, Homer E., Grand Rapids, Mich. Lock. No. 1,364,048; Dec. 28; v. 281; p. 740.
Gillarde, Frank, Springfield, Ill. Banana weigher and hanger. No. 1,338,220; Apr. 27; v. 273; p. 681.
Gillen, Daniel A., New York, N. Y. Vehicle-alarm. No. 1,361,762; Dec. 7; v. 281; p. 156.
Gillenwaters, Joseph T. B., Cave City, Ky. Shoe. No. 1,328,665; Jan. 20; v. 270; p. 433.
Gilleo, Clarence C. (See Borst, William E., assignor.)
Gilleo, Clarence C. (See Borst and Gilleo.)
Gilles, Albert L. (See Prince, J. A., and Gilles.)
Gilles, Pierre P., Springfield, Mass. Carbureter. No. 1,330,796; Feb. 17; v. 271; p. 371.

Digitized by Google

Gilles, Pierre P., Springfield, Mass. Carbureter. No. 1,330,797; Feb. 17; v. 271; p. 371.
Gilles, Pierre P., Springfield, Mass. Fuel-feeding apparatus. No. 1,330,798; Feb. 17; v. 271; p. 371.
Gilles Fuel Feeding Company. (See Gilles, Pierre P., assignor.) (Reissue.)
Gilles, Pierre P., Chicago, Ill., assignor, by mesne assignments, to Gilles Fuel Feeding Company, Holyoke, Mass. Vacuum-feed carbureter. (Reissue.) No. 14,912; July 13; v. 276; p. 354.
Gilles, Pierre P., Springfield, Mass. Vacuum-feed carbureter. No. 1,350,151; Aug. 17; v. 277; p. 518.
Gillespie, Arthur W., Chicago, Ill. Fire-door-operating mechanism. No. 1,354,183; Sept. 28; v. 278; p. 625.
Gillespie, Edward S., Detroit, Mich. Coloring moving-picture films. No. 1,342,803; June 8; v. 275; p. 287.
Gillespie, G. C., Great Kills, and F. W. Barker, New Dorp, N. Y. Airplane. No. 1,359,590; Nov. 23; v. 280; p. 617.
Gillespie, George, West View, Pa. Pantograph. No. 1,347,695; July 27; v. 276; p. 645.
Gillespie, Harvey M., Chicago, Ill. Rotary engine. No. 1,330,257; Feb. 10; v. 271; p. 202.
Gillespie, Thomas J., Homestead, assignor of one-half to H. J. Trimble, Pittsburgh, Pa. Collar-fastener. No. 1,353,739; Sept. 21; v. 278; p. 493.
Gillespie, William G., Chicago, Ill. Fuel-saver. No. 1,353,740; Sept. 21; v. 278; p. 493.
Gillet, Alexis F., assignor to Jubilee Manufacturing Company, Omaha, Nebr. Windshield-cleaner. No. 1,345,167; June 29; v. 275; p. 942.
Gillett, Clifton E., Verdigre, Nebr. Corn-hanger. No. 1,351,379; Aug. 31; v. 277; p. 868.
Gillett, Walter, East Cleveland, Ohio, assignor to General Electric Company. Apparatus for measuring and sorting rods. No. 1,344,941; June 29; v. 275; p. 898.
Gillette Safety Razor Company. (See Chadwick, Everett D., assignor.)
Gillette Safety Razor Company. (See Nickerson, William E., assignor.)
Gillette Safety Razor Company. (See Parker, Riley H., assignor.)
Gillette Safety Razor Company. (See Wharton, Edward R., assignor.)
Gillette, Walter S., Bay City, Tex. Tire-core. No. 1,363,109; Dec. 21; v. 281; p. 519.
Gillette, William W., Gloversville, N. Y. Boiler. No. 1,342,672; June 8; v. 275; p. 259.
Gilley, Zachriah E., Lamsco, Tex. Crank. No. 1,351,639; Aug. 31; v. 277; p. 918.
Gilliam, Frank F., Greenville, S. C. Bottle-dispensing apparatus. No. 1,330,799; Feb. 17; v. 271; p. 371.
Gilliam Manufacturing Company, The. (See Miller, George L., assignor.)
Gillies, Robert A., Calgary, Alberta, Canada. Collapsible table-top. No. 1,336,954; Apr. 13; v. 273; p. 297.
Gillingham, Charles A., Lakewood, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc. Battery-switch. No. 1,337,217; Apr. 20; v. 273; p. 421.
Gilliom, Daniel A., Decatur, Ind. Music-machine. No. 1,338,620; Apr. 27; v. 273; p. 755.
Gillis & Geoghegan. (See Donat, Joseph H., assignor.)
Gillis & Geoghegan. (See Rutan, William, assignor.)
Gillis, Harry, Egypt, Tex. Harrow. No. 1,348,830; Aug. 3; v. 277; p. 134.
Gillmor, Horatio G., Washington, D. C. Rail-anchor. No. 1,340,135; May 11; v. 274; p. 355.
Gillmor, Horatio G., Washington, D. C. Rail-anchor. No. 1,358,726; Nov. 16; v. 280; p. 404.
Gillmor, Horatio G., Washington, D. C. Rail-anchor. No. 1,358,727; Nov. 16; v. 280; p. 404.
Gilman, Charles. (See Forshee, I. C., and Gilman.)
Gilman, Frank L., and W. M. Baum, Los Angeles, Calif. Current-motor. No. 1,353,906; Sept. 28; v. 278; p. 568.
Gilman, George H., Claremont, N. H., assignor to Sullivan Machinery Company, Boston, Mass. Fluid-motor. No. 1,348,863; Aug. 10; v. 277; p. 194.
Gilman, George H., Claremont, N. H., assignor to Sullivan Machinery Company. Feed-controlling device. No. 1,362,990; Dec. 21; v. 281; p. 495.
Gilman, Roy L., Bristol, Conn. Process and apparatus for hardening heading-dies. No. 1,334,606; Mar. 23; v. 272; p. 617.
Gilmer, John T., Fulton, Ala. Dowel-pin. No. 1,354,549; Oct. 5; v. 279; p. 21.
Gilmer, Thomas W., Bay Minette, Ala. Strainer or receptacle. No. 1,337,898; Apr. 20; v. 273; p. 551.
Gilmore, Benjamin V., Gauley Bridge, W. Va. Convertible roadster. No. 1,363,405; Dec. 28; v. 281; p. 616.
Gilmore, Charles A., McComb, Miss. Feed-water heater. No. 1,363,773; Dec. 28; v. 281; p. 688.
Gilmore, Earl L., assignor to Vitaslide Company, San Francisco, Calif. Projector. No. 1,345,084; June 29; v. 275; p. 925.
Gilmore, Earl L., assignor to Vitaslide Company, San Francisco, Calif. Projector. No. 1,354,823; Oct. 5; v. 279; p. 75.
Gilmore, George E., Cleveland, Ohio. Resilient wheel-tire. No. 1,358,308; Nov. 9; v. 280; p. 274.
Gilmore, Millard, Chicago, Ill. Fire-door. No. 1,363,774; Dec. 28; v. 281; p. 688.
Gilmore, Samuel R., Seattle, Wash. Plate-puller. No. 1,336,291; Apr. 6; v. 273; p. 111.
Gilmore, Samuel R., Seattle, Wash. Apparatus for drawing together ship-plates. No. 1,354,390; Sept. 28; v. 278; p. 667.
Gilmore, Thomas, Jr., Brooklyn, assignor to General Briquetting Company, New York, N. Y. Briqueting-machine. No. 1,332,983; Mar. 9; v. 272; p. 206.
Gilmore, William E. (See Robbins, L. S., and Gilmore.)
Gilmour, William H., St. Landry, La. Sawmill attachment. No. 1,340,042; May 11; v. 274; p. 336.
Gilmore, William L. (See Curtiss, Glenn H., and Gilmore.)
Gilmore, William L., Garden City, and J. F. Meade, Roosevelt, assignors, by mesne assignments, to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Airplane-fuselage. No. 1,355,741; Oct. 12; v. 279; p. 306.
Gilmore, Willis B., Idaho Springs, Colo. Animal-trap. No. 1,340,442; May 18; v. 274; p. 470.
Gilpin, Garth G., Riverside, Ill., assignor to W. P. Murphy, New York, N. Y. Railway-car. No. 1,348,991; Aug. 10; v. 277; p. 218.
Gilpin, V. C., *et al.* (See Palmer, Otto F., assignor.)
Gilpin, Victor C., and J. E. McAuliffe, Brooklyn, N. Y. Fabric conduit. No. 1,344,501; June 22; v. 275; p. 749.
Gilson, Albert F. F., Closter, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-switchboard. No. 1,330,258; Feb. 10; v. 271; p. 202.
Gilson, Bert D., Chicago, Ill. Motor-pump attachment. No. 1,340,389; May 18; v. 274; p. 459.
Gilson, Henry R., New Rochelle, N. Y., assignor to New York Belting & Packing Company. Hose-coupling. No. 1,343,967; June 22; v. 275; p. 643.
Gilson, J. E., Company. (See Gilson, John, Sr., assignor.)
Gilson, John P. (See Gilson, Michael and J. P.) (Reissue.)
Gilson, John, Sr., assignor to J. E. Gilson Company, Port Washington, Wis. Adjustable weeder. No. 1,336,623; Apr. 13; v. 273; p. 233.
Gilson, Michael and J. P., Fredonia, Wis. Concrete-mixer. (Reissue.) No. 14,795; Jan. 27; v. 270; p. 590.
Gilstrap, Philip J. (See Flintham and Gilstrap.)
Gimm, Lester E. (See Brooks, J. F., and Gimm.)
Gimson Shoe Machinery Company, The. (See Bagshaw, Charles M., assignor.)
Gindrat, Louis R., assignor to The Cigar Machine Corporation of America, Baltimore, Md. Machine for applying paper molds to cigar-bunches. No. 1,343,125; June 8; v. 275; p. 350.
Gingras, Edward F., Buffalo, N. Y. Apparatus for manufacturing belting. No. 1,351,901; Sept. 7; v. 278; p. 38.
Ginn, Percy E. (See Johnson, Harry L., assignor.)
Ginn, Percy E. (See Johnson, H. L., and Raymer, assignors.)
Ginter, Christian, Jr. (See Burns, John A., assignor.)
Girard, Edward L. (See Schmidt, Fred, assignor.)
Girard, Adolph G., San Francisco, Calif. Pump-support. No. 1,338,621; Apr. 27; v. 273; p. 755.
Girard, Adolph G., San Francisco, Calif. Rat-shield. No. 1,363,406; Dec. 28; v. 281; p. 616.
Girard, Fred F., Washingtonville, Ohio. Jar wrench and holder. No. 1,337,899; Apr. 20; v. 273; p. 551.
Girard, L. B. (See Biddlecom, Roy W., assignor.)
Girard, Pedro E. (See Martinez, Regino A., assignor.)
Girardeau, Emile F. (See Bethenod, J. F. J., and Girardeau.)
Girardeau, Emile F., Paris, France. Dynamo for lighting and motor ignition. No. 1,346,821; July 20; v. 276; p. 415.
Girardi, Frank. (See Basil, J., and Girardi.)
Girardi, Frank, assignor of one-half to J. Basil, Detroit, Mich. Rotary engine. No. 1,333,615; Mar. 16; v. 272; p. 385.
Giraudias, Raoul, Montreal, Quebec, Canada. Bow-fastener. No. 1,348,795; Aug. 3; v. 277; p. 128.
Giroux, Eugene L. (See Magnuson, Terry J., assignor.)
Girtanner, Alexander, New York, N. Y. Ash-conveyer. No. 1,346,950; July 20; v. 276; p. 441.
Girtanner, Alexander, New York, N. Y. Ash-conveyer. No. 1,348,937; Aug. 10; v. 277; p. 208.
Girton, Albert R., Bloomsburg, Pa., assignor to American Car and Foundry Company, New York, N. Y. Spring-oiler. No. 1,354,903; Oct. 5; v. 279; p. 91.
Gish, John L., South Bend, Ind. Valve-operating means. No. 1,354,965; Oct. 5; v. 279; p. 103.
Gist, Roger, assignor of one-half to B. F. Blackmon, San Francisco, Calif. Clothesline-holder. No. 1,345,324; June 29; v. 275; p. 972.
Gitlitz, Solomon, Montreal, Quebec, Canada. Hygienic cuspidor. No. 1,361,712; Dec. 7; v. 281; p. 147.
Gits, Jules P., Chicago, Ill. Oil-cup. No. 1,350,721; Aug. 24; v. 277; p. 676.
Gitterman, Kurt R., Brooklyn, N. Y. Spectacle-shade. No. 1,348,712; Aug. 3; v. 277; p. 112.
Gitterman, Kurt R., Brooklyn, N. Y. Spectacle. No. 1,348,713; Aug. 3; v. 277; p. 113.
Gitzendanner, Charles, Brooklyn, N. Y. Strut-rod. No. 1,360,925; Nov. 30; v. 280; p. 947.

Digitized by Google

Given, Guy C., H. S. McQuaid, and R. A. Long, Tamaqua, Pa., assignors to Atlas Powder Company, Wilmington, Del. Manufacturing ammonium perchlorate from sodium perchlorate and ammonium sulfate. No. 1,342,956; June 8; v. 275; p. 316.
Givens, Glenn G., Newport News, Va. Comb. No. 1,340,948; May 25; v. 274; p. 636.
Gjerdrum, Hans, Olso, Minn. Non-skid device. No. 1,357,198; Oct. 26; v. 279; p. 679.
Gladue, Wilfred J., assignor to Shambow Shuttle Company, Woonsocket, R. I. Loom-shuttle. No. 1,361,714; Dec. 7; v. 281; p. 147.
Gladwin, John D., assignor to The Standard Machine Brush Company, Newark, N. J. Brush-making machine. No. 1,359,165; Nov. 16; v. 280; p. 488.
Glaeser, Walter, Brooklyn, assignor, by mesne assignments, to Potash Extraction Corporation, New York, N. Y. Pyrometer. No. 1,339,952; May 11; v. 274; p. 320.
Glaeser, Walter, Fullerton, Pa., assignor, by mesne assignments, to Potash Extraction Corporation, New York, N. Y. Apparatus for treating silicates. No. 1,347,024; July 20; v. 276; p. 456.
Glander, Charles E., Jersey City, N. J. Trap-nest. No. 1,351,103; Aug. 31; v. 277; p. 811.
Glanding, Tristram, Philadelphia, Pa., assignor to William R. Noe & Sons, New York, N. Y. Support for shade-holders. No. 1,341,845; June 1; v. 275; p. 46.
Glanz, Joseph, Hartford, Conn. Repair of bicycle-pedals. No. 1,352,445; Sept. 14; v. 278; p. 175.
Glanz, Joseph, Hartford, Conn. Crank-pedal. No. 1,352,446; Sept. 14; v. 278; p. 176.
Glascock Juvenile Goods Company. (See Gordon, Henry C., assignor.)
Glasener, Frank R., Cedar Falls, Iowa. Loading device for mixing-machines. No. 1,335,435; Mar. 30; v. 272; p. 834.
Glaser, Lillian, Detroit, Mich. Gas-mantle. No. 1,335,831; Apr. 6; v. 273; p. 24.
Glaser, William H. (See Samuelson, G. B., and Glazer.)
Glasner, Rudolph W. (See Strand, David, assignor.)
Glass, Elmer R., assignor of one-half to D. H. Baird, Altoona, Pa. Furniture-fastening device. No. 1,334,851; Mar. 22; v. 272; p. 664.
Glass, Frederick, Newburgh, N. Y. Bunk construction. No. 1,357,088; Oct. 26; v. 279; p. 658.
Glass, Joseph J., assignor of one-half to W. L. Read, and one-half to C. F. Read, Chicago, Ill. Coupling-head and making same. No. 1,354,904; Oct. 5; v. 279; p. 91.
Glass, P. R., Company. (See Glass, Perley R., assignor.)
Glass, Perley R., Brookline, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Fastener-setting machine. No. 1,334,238; Mar. 16; v. 272; p. 501.
Glass, Perley R., Brookline, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Seam-rubbing machine. No. 1,346,194; July 13; v. 276; p. 232.
Glass, Perley R., Brookline, assignor to P. R. Glass Company, Boston, Mass. Folding-machine. No. 1,346,195; July 13; v. 276; p. 232.
Glass, Perley R., Brookline, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Perforating sheet material for the reception of eyelets and the like. No. 1,356,522; Oct. 26; v. 279; p. 547.
Glass, Perley R., Brookline, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Hook-setting machine. No. 1,356,760. Oct. 26; v. 279; p. 594.
Glass, William C., Jamaica Plain, Mass. Sheet-feeding mechanism. No. 1,327,546; Jan. 6; v. 270; p. 124.
Glasser, Maurice M., Charleston, S. C. Oscillator for electric fans. No. 1,354,098; Sept. 28; v. 278; p. 608.
Glassmann, A. E., and J. Bartha, New York, N. Y. Spark-plug. No. 1,359,358; Nov. 16; v. 280; p. 526.
Glatt, Abraham, Chicago, Ill. Toothbrush. No. 1,357,285; Nov. 2; v. 280; p. 17.
Glatz, Frank, Kansas City, Mo. Driving mechanism for airplanes. No. 1,338,435; Apr. 27; v. 273; p. 721.
Glatzel, Frank, Paterson, N. J. Jacquard-machine. No. 1,332,122; Feb. 24; v. 271; p. 640.
Glauber Brass Manufacturing Company. (See Wuesthoff, Maximilian W., assignor.)
Glauber Brass Manufacturing Company. (See Yeiser, L. B., and Fischer, assignors.)
Glaudel, George, Los Angeles, Calif. Auxiliary windshield. No. 1,343,318; June 15; v. 275; p. 450.
Glaudel, George, Los Angeles, Calif. Windshield attachment. No. 1,346,402; July 13; v. 276; p. 273.
Glaze, Bruce, Andrews, Ind. Spark-plug. No. 1,360,392; Nov. 30; v. 280; p. 843.
Glaze, Frederick E., Denver, Colo. Rotary engine. No. 1,337,218; Apr. 20; v. 273; p. 421.
Glaze, Herbert L. (See McKate, J. N., and Glaze, assignors.)
Glaze, Herbert L. (See Routt, O. L., McConnell, and Glaze.)
Glaze, Herbert L., assignor, by mesne assignments, to Plastoid Products Inc., Los Angeles, Calif. Article of manufacture. No. 1,356,707; Oct. 26; v. 279; p. 583.
Gleason, Amilton M., Belcher, La. Drill-bit. No. 1,360,209; Nov. 23; v. 280; p. 740.
Gleason, Frederick J., Walpole, Mass. Brake-lining. No. 1,342,043; June 1; v. 275; p. 84.
Gleason, Homer E., Seattle, Wash. Lighting-fixture. No. 1,340,443; May 18; v. 274; p. 470.
Gleason, James E., trustee. (See Derr, Charles E., assignor.)
Gleason, James E., and A. L. Stewart, assignors to Gleason Works, Rochester, N. Y. Method of and machine for cutting gears or wheels. No. 1,349,951; Aug. 17; v. 277; p. 479.
Gleason, James E., A. L. Stewart, and E. C. Head, assignors to The Gleason Works, Rochester, N. Y. Gear-cutting machine. No. 1,344,879; June 29; v. 275; p. 887.
Gleason, L. H. (See Zahnow, Frank C., assignor.)
Gleason, Marshall W., Brooklyn, assignor to Gleason Tiebout Glass Co., New York, N. Y. Laminated glass. No. 1,342,282; June 1; v. 275; p. 131.
Gleason, Ralph A. (See Loweree, Jackson, and Gleason.)
Gleason Tiebout Glass Co. (See Gleason, Marshall W., assignor.)
Gleason Works. (See Bullock, E. W., Earl, and Bryan, assignors.
Gleason Works. (See Gleason, J. E., and Stewart, assignors.)
Gleason Works, The. (See Gleason, J. E., Stewart, and Head, assignors.)
Gledhill, Arthur H., Halifax, England. Apparatus for releasing bodies from aircraft. No. 1,338,724; May 4; v. 274; p. 14.
Gleerup-Möller, Magdelin C., Copenhagen, Denmark. Punch for perforating belts. No. 1,338,296; Apr. 27; v. 273; p. 695.
Gleeson, John R., Stockton, Calif. Insect-guard. No. 1,335,280; Mar. 30; v. 272; p. 795.
Gleeson, Mortimer B., Philadelphia, Pa. Means for preventing larceny of motor-vehicles and the like. No. 1,362,567; Dec. 14; v. 281; p. 362.
Gleeson, William E., East McKeesport, Pa. Toy vehicle. No. 1,350,492; Aug. 24; v. 277; p. 632.
Gleiche, Carl, assignor to Stock Motorpflug Gesellschaft mit Beschrankter Haftung, Berlin, Germany. Moldboard for plows. No. 1,346,600; July 13; v. 276; p. 313.
Glendy, Oscar V. (See Glendy, Thomas P. and O. V.)
Glendy, Thomas P., and O. V., Indianapolis, Ind. Front storm-window for locomotive-cabs. No. 1,360,393; Nov. 30; v. 280; p. 844.
Glenn, Arthur F., Baker, Oreg. Nut-lock. No. 1,362,288; Dec. 14; v. 281; p. 308.
Glenn, George M. (See Hormel, George W., assignor.)
Glenn, George M., Wichita, Kans. Mud-shoe. No. 1,359,887; Nov. 23; v. 280; p. 676.
Glenn, Gorman H., Durham, N. C. Tractor attachment. No. 1,362,861; Dec. 21; v. 281; p. 471.
Glenn, James H. (See Collins, F. M., and Glenn.)
Glenn, John C., assignor to Skinner Engine Company, Erie, Pa. Engine-valve mechanism. No. 1,354,966; Oct. 5; v. 279; p. 103.
Glenn, Thomas F., Ardmore, Pa., assignor to The S. S. White Dental Manufacturing Company. Mold for forming artificial teeth. No. 1,346,951; July 20; v. 276; p. 441.
Glenn, William H., El Paso, Tex. Mop. No. 1,360,926; Nov. 30; v. 280; p. 947.
Glennon, Edward, Brooklyn, N. Y. Flush-valve. No 1,345,920; July 6; v. 276; p. 117.
Gleockle, August F., Jr., Rochester, N. Y. Adjustable bracket for supporting wall-radiators. No. 1,334,749; Mar. 23; v. 272; p. 644.
Glidden Company, The. (See Tenca, Louis P., assignor.)
Glidden, Earl D. (See Mahana, C. G., Glidden, and Laurent.)
Glidden, Raymond B., assignor to Ideal Manufacturing Company, Kewanee, Ill. Bottle-capper. No. 1,358,145; Nov. 9; v. 280; p. 243.
Glidden, Walter J., Southboro, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sewing-machine. No. 1,342,165; June 1; v. 275; p. 109.
Glifograph Corporation, The. (See Pech, Jacques L., assignor.)
Glines, Frederick S., Lynn, assignor to L. Muther, Newton, Mass. Machine for applying adhesive. No. 1,341,311; May 25; v. 274; p. 706.
Glines, Frederick S., Lynn, assignor to L. Muther, Newton, Mass. Gage for perforating-machines. No. 1,341,312; May 25; v. 274; p. 706.
Globe Automatic Sprinkler Company, The. (See Dawson, Josiah, assignor.)
Globe Automatic Sprinkler Company. (See Evans, P., Rowley, and Garrett, assignors.)
Globe Automatic Sprinkler Company. (See Rowley, Arthur C., assignor.)
Globe Machine & Stamping Company. (See Holland, Frank G., assignor.)
Globe Machine and Stamping Company, The. (See Root, Ralph R., assignor.)
Globe Optical Company. (See Slade, Walter W., assignor.)
Glockemeier, Georg, assignor to C. Krause, Luderitzbucht, South West Protectorate, South Africa. Concentrating-jig. No. 1,354,550; Oct. 5; v. 279; p. 21.

Digitized by Google

Gloppe, Jean M., Lyon, France. Desk. No. 1,347,025; July 20; v. 276; p. 456.
Glor, William J., Cleveland, Ohio. Crank-shaft construction. No. 1,363,466; Dec. 28; v. 281; p. 628.
Glossbrenner, Charlotte L., York, Pa. Doll. No. 1,332,825; Mar. 2; v. 272; p. 124.
Glover, Frank B., Brooklyn, N. Y. Dividing-machine. No. 1,333,408; Mar. 9; v. 272; p. 285.
Glover, Frank B., Brooklyn, N. Y. Work-holder. No. 1,350,097; Aug. 17; v. 277; p. 507.
Glover, John B. Mattoon, Ill. Incubator. No. 1,355,602; Oct. 12; v. 279; p. 279.
Glover, Newton L., Windom, Minn. Tree and log sawing machine. No. 1,347,504; July 27; v. 276; p. 607.
Glover, William E., Coin, Iowa. Antiskidding device. No. 1,350,966; Aug. 24; v. 277; p. 722.
Gluck, Bernhard. (See Rosenfeld, Nathan, assignor.)
Gluck, Marcus, New York, N. Y. Spoon. No. 1,329,172; Jan. 27; v. 270; p. 558.
Glud, Annie, Oakland, Calif. Sanitary evaporating garbage-can. No. 1,331,428; Feb. 17; v. 271; p. 489.
Glynn, Guilford C., Kansas City, Kans., assignor to The Wilberite Roofing Company, Cleveland, Ohio. Waterproof material. No. 1,330,443; Feb. 10; v. 271; p. 236.
Glynn, Guilford C., Kansas City, Kans., assignor of one-half to P. A. Hilderbran, Kansas City, Mo. Plastic surface-covering. No. 1,348,278; Aug. 3; v. 277; p. 30.
Glynn, Stephen A., Antigo, Wis. Button. No. 1,340,390; May 18; v. 274; p. 460.
Glysyn Corporation, The. (See Saunders, H., and Sutherland, assignors.)
Gmeiner, Seymore, Appleton, assignor to Appleton Wood Products Company, Outagamie, Wis. Cutting-block. No. 1,360,286; Nov. 30; v. 280; p. 823.
Gmelin, Ernst W., El Paso, Tex. Direction-indicator. No. 1,333,973; Mar. 16; v. 272; p. 452.
Gmys, Andrew A. (See Kaminski, Albert, assignor.)
Goben, Edward F., Muskogee, assignor of one-half to P. R. Allen, McAlester, Okla. Rail-bender. No. 1,342,263; June 1; v. 275; p. 128.
Goble, Walter A., Grand Rapids, Mich. Regulating-hook for piano-actions. No. 1,351,512; Aug. 31; v. 277; p. 893.
Goch, Joseph, Chicago, Ill. Fabric laying and cutting machine. No. 1,354,614; Oct. 5; v. 279; p. 34.
Goch, Joseph, and J. Blackowiak, Chicago, Ill. Convertible furniture device, &c. No. 1,363,247; Dec. 28; 281; p. 586.
Gocher, Herbert W., North Vancouver, British Columbia, Canada. Internal-combustion engine. No. 1,332,393; Mar. 2; v. 272; p. 42.
Godard, Joseph J., Mobile, Ala. Umbrella-holder. No. 1,347,540; July 27; v. 276; p. 614.
Godchaux, Herbert, Dallas, Tex. Overalls. No. 1,341,313; May 25; v. 274; p. 706.
Goddard, Charles F. (See Stockton and Goddard.)
Goddard, Clair E., Omaha, Nebr. Recording apparatus. No. 1,351,902; Sept. 7; v. 278; p. 38.
Goddard, Frederick M., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical resistance element. No. 1,356,617; Oct. 26; v. 279; p. 566.
Goddard, John W., and A. E. Jerram, Leicester, England, assignors, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sole-sewing machine. No. 1,353,827; Sept. 28; v. 278; p. 553.
Goddard, Joseph, assignor to Seneca Camera Mfg. Co., Rochester, N. Y. Plate-holder for photographic cameras. No. 1,343,773; June 15; v. 275; p. 541.
Goddard, Robert H., Worcester, Mass. Magazine-rocket. No. 1,341,053; May 25; v. 274; p. 657.
Goddard, Robert H., Worcester, Mass. Method of and means for producing electrified jets of gas. No. 1,363,037; Dec. 21; v. 281; p. 505.
Goddard, Stewart, Toronto, Ontario, Canada. Tire-chain. No. 1,338,009; Apr. 27; v. 273; p. 641.
Goddard, Stewart, Toronto, Ontario, Canada. Tire-chain connection. No. 1,353,828; Sept. 28; v. 278; p. 553.
Goddard, Walter F., Somerville, assignor to Dustless Victory Sieve Company, Boston, Mass. Ash-sifter. No. 1,344,390; June 22; v. 275; p. 726.
Goddard, Walter T., Hamilton, Ontario, Canada, assignor to The Locke Insulator Mfg. Co., Victor, N. Y. Insulator. (Reissue.) No. 148,888; June 22; v. 275; p. 770.
Goddard, William E., Watertown, Wis. Nursing-bottle. No. 1,344,760; June 29; v. 275; p. 864.
Goddu, George, Winchester, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for making fastenings. No. 1,348,864; Aug. 10; v. 277; p. 194.
Goddu, George, Winchester, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Work-support-controlling mechanism. No. 1,356,523; Oct. 26; v. 279; p. 547.
Godefroy, Marie L., Paris, France. Exposure-meter. No 1,346,088; July 6; v. 276; p. 151.
Godfrey, Alfred, London, England. Apparatus for cutting metals and the like by a cutting-flame. No. 1,357,859; Nov. 2; v. 280; p. 126.
Godfrey, Alfred A., London, England. Manufacture of tiles of linoleum or the like and apparatus therefor. No. 1,361,456; Dec. 7; v. 281; p. 97.
Godfrey, Harold H., Los Angeles, Calif. Apparatus for extracting metal from ores and the like. No. 1,347,026; July 20; v. 276; p. 456.
Godfrey, Nellie, Fitchburg, Mass. Broiling-rack. No. 1,331,058; Feb. 17; v. 271; p. 422.
Godfrey, Warren P. (See Watts, Ben, assignor.) (Reissue.)
Godley, Charles E., assignor to Edmunds & Jones Corporation, Detroit, Mich. Lamp. No. 1,340,163; May 18; v. 274; p. 417.
Godley, Charles E., assignor to Edmunds and Jones Corporation, Detroit, Mich. Parabolic sectional reflector. No. 1,347,268; July 20; v. 276; p. 504.
Godley, Frank A., Philadelphia, Pa. Timer-brush. No. 1,333,711; Mar. 16; v. 272; p. 403.
Godsey, Cain, Bristol, Tenn. Folding baggage-rack. No. 1,333,206; Mar. 9; v. 272; p. 247.
Godward, James F., Ashtabula Harbor, Ohio. Garment-supporter. No. 1,337,901; Apr. 20; v. 273; p. 551.
Godwin, Thomas H., Exira, Iowa. Harness. No. 1,357,772; Nov. 2; v. 280; p. 169.
Godwin, William S., Cleveland, Ohio. Street-railway construction. No. 1,349,451; Aug. 10; v. 277; p. 309.
Goe, Harold H., Anaconda, Mont. Brick-machine. No. 1,344,880; June 29; v. 275; p. 887.
Goeke, George A., Waukon, Iowa. Compression-release. No. 1,343,591; June 15; v. 275; p. 486.
Goelkel, Rinaldo A., New York, N. Y. Eyeglass case and cleaning device. No. 1,339,330; May 4; v. 274; p. 125.
Goertz, August & Co. (See vom Eigen, Benno.)
Goertz, August, and Company. (See Goertz, F., and Whitcomb, assignors.)
Goertz, Frederick, Newark, and R. Whitcomb, Elizabeth, N. J. Container. No. 1,345,360; July 6; v. 276; p. 7.
Goertz, Frederick, Newark, and R. Whitcomb, Elizabeth, N. J., assignors to August Goertz and Company. Container. No. 1,345,359; July 6; v. 276; p. 6.
Goetting, Clyde E., Oklahoma, Okla. Headlight rim and glass-closure support. No. 1,361,151; Dec. 7; v. 281; p. 34.
Goetting, George W., Rochester, Minn. Check-writer. No. 1,358,146; Nov. 9; v. 280; p. 243.
Goettlich, Walter. (See Evitts and Goettlich.)
Goetz, Karl, Detroit, Mich. Window-sash. No. 1,335,492; Mar. 30; v. 272; p. 844.
Goetz, Louis G., and T. Edeburn, assignors to The Adams-Bagnall Electric Company, Cleveland, Ohio. Tiltable reflector for head-lamps. No. 1,344,687; June 29; v. 275; p. 850.
Goetz, William, Vancouver, British Columbia, Canada. Wire-rope-guy securing and releasing means. No. 1,359,051; Nov. 16; v. 280; p. 467.
Goewey, Philip W. (See Reed, Walter C., assignor.)
Goff, Frank, Camden, N. J. Controller for electropneumatic brake apparatus. No. 1,339,754; May 11; v. 274; p. 282.
Goff, William F., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Centering-ring for tire-beads. No. 1,339,451; May 11; v. 274; p. 224.
Goffaux, Felix L., Arnold, Pa. Glass-drawing machine. No. 1,354,391; Sept. 28; v. 278; p. 667.
Gogay, Henry R., Columbus, Ohio. Metallic receptacle. No. 1,341,638; June 1; v. 275; p. 5.
Gogolinski, John A., Drissa, Russia. Pump. No. 1,349,667; Aug. 17; v. 277; p. 425.
Gohr, Carl, Schuyler, Nebr. Bench-dog. No. 1,355,140; Oct. 12; v. 279; p. 189.
Gohr, Louis W., *et al.* (See Trapp, Charles L., assignor.)
Göhring, Oswald H. (See Klever, H., Lautenschläger, and Göhring.)
Going, George G., Middletown, Conn. Violin. No. 1,329,594; Feb. 3; v. 271; p. 47.
Going, William J., Trenton, N. J. Yarn-treating mechanism. No. 1,333,481; Mar. 9; v. 272; p. 299.
Going, William J., Amsterdam, N. Y., assignor, by mesne assignments, to The Klauder-Weldon Dyeing Machine Company, Jenkintown, Pa. Dyeing-machine. No. 1,343,260; June 15; v. 275; p. 439.
Goings, Clarence E., Philadelphia, Pa., assignor, by mesne assignments, to The Position-Light Signal Company. Apparatus for suppressing false signals. No. 1,335,330; Mar. 30; v. 272; p. 814.
Goissedet, Paul E. C., Paris, France. Manufacture of new products derived from cellulose. No. 1,357,450; Nov. 2; v. 280; p. 47.
Goke, Paul J. (See Betts, A. R., and Goke.)
Golanke, Alexander S., Milwaukee, Wis. Copy-holder. No. 1,336,834; Apr. 13; v. 273; p. 274.
Golata, Andrew J., and L. L. Roberts, assignors of one-tenth to W. W. Carswell and one-tenth to A. L. Ellis, Detroit, Mich. Piston. No. 1,329,238; Jan. 27; v. 270; p. 570.
Golbin, Benjamin, Chicago, Ill. Automatic circuit-closer. No. 1,351,207; Aug. 31; v. 277; p. 832.
Golby, May, Auckland, New Zealand. Egg-slicer. No. 1,332,035; Feb. 24; v. 271; p. 625.
Gold, Anna, Fredericksburg, Tex. Combination-garment. No. 1,345,763; July 6; v. 276; p. 85.

Digitized by Google

Alphabetical list of patentees—Continued.

Gold Car Heating & Lighting Company. (See Gold, Edward E., assignor.)
Gold, Edward E., New York, N. Y., assignor to Gold Car Heating & Lighting Company. Electrothermic motor for thermostatic systems. No. 1,337,764; Apr. 20; v. 273; p. 525.
Gold, Edward E., assignor to Gold Car Heating & Lighting Company, New York, N. Y. Thermostatic valve. No. 1,339,057; May 4; v. 274; p. 76.
Gold, Edward E., assignor to Gold Car Heating & Lighting Company, New York, N. Y. Vapor steam-heating system. No. 1,360,519; Nov. 30; v. 280; p. 869.
Gold, Egbert H., *et al.* (See MacFarland, H. B., and Shoemaker, assignors.)
Gold, Egbert H., Chicago, Ill. Gasket for train-pipe couplings. No. 1,350,074; Aug. 17; v. 277; p. 503.
Gold, Frank S., Toronto, Ontario, Canada. Windshield-cleaner. No. 1,347,628; July 27; v. 276; p. 632.
Gold, Michael. (See Schwarzenbach, A. J., and Tucker, assignor.)
Gold, Samuel B., Independence, Mo., assignor to S. W. Livingston, Washington, D. C. Internal-combustion engine. No. 1,350,864; Aug. 24; v. 277; p. 702.
Goldbaum, Jack J., Irvington, N. J. Bag-handle. No. 1,357,554; Nov. 2; v. 280; p. 66.
Goldberg, Charles M., New York, N. Y. Maternity-skirt. No. 1,357,828; Nov. 2; v. 280; p. 120.
Goldberg, David, Chicago, Ill. Means for removing fire-hydrant valves while under water-pressure. No. 1,349,062; Aug. 10; v. 277; p. 232.
Goldberg, Herman, assignor to Wolff Coal Saver Company, Chicago, Ill. Damper-gage. No. 1,348,939; Aug. 10; v. 277; p. 208.
Goldberg, Jacob, assignor to The Goldberg Padding Machine Company, Cincinnati, Ohio. Cloth-feed mechanism for blindstitch sewing-machines. No. 1,352,061; Sept. 7; v. 278; p. 67.
Goldberg, John S., and R. M. Anderson, assignors to Stromberg Motor Devices Company, Chicago, Ill. Carbureter. No. 1,355,960; Oct. 19; v. 279; p. 389.
Goldberg, Maximilian M., Dayton, Ohio. Speed-transformer. No. 1,328,083; Jan. 13; v. 270; p. 286.
Goldberg, Maximilian M., assignor to The National Cash Register Company, Dayton, Ohio. Registering and recording mechanism. No. 1,327,153; Jan. 6; v. 270; p. 51.
Goldberg, Nathan E., New York, N. Y. Deposit-slip. No. 1,339,321; May 4; v. 274; p. 125.
Goldberg Padding Machine Company, The. (See Goldberg, Jacob, assignor.)
Goldberg, Samuel. (See Ingram, H. G., and Goldberg.)
Goldberg, Solomon H., Chicago, Ill. Combined container and exhibiting device. No. 1,330,259; Feb. 10; v. 271; p. 202.
Goldberg, Solomon H., Chicago, Ill. Retreading tires. No. 1,336,624; Apr. 13; v. 273; p. 234.
Goldberg, Solomon H., assignor to The Hump Hairpin Manufacturing Company, Chicago, Ill. Machine for counting and arranging hairpins or like articles. No. 1,326,925; Jan. 6; v. 270; p. 8.
Goldberg, Solomon H., assignor to The West Coast Roofing and Manufacturing Company, Chicago, Ill. Producing roofing material. No. 1,345,922; July 6; v. 276; p. 117.
Goldberg, Solomon H., assignor to The Hump Hairpin Manufacturing Company, Chicago, Ill. Safety-pin. No. 1,348,865; Aug. 10; v. 277; p. 194.
Goldberger, Leo J., assignor to L. Wohl & Company, New York, N. Y. Garment. No. 1,354,967; Oct. 5; v. 279; p. 104.
Goldblatt, Albert A., Brooklyn, N. Y. Alarm device for automobiles. No. 1,327,993; Jan. 13; v. 270; p. 269.
Golden, Abe, *et al.* (See Scholes, Edmond P., assignor.)
Golden, Asher, New York, N. Y. Ball-bearing. No. 1,356,444; Oct. 19; v. 279; p. 485.
Golden, Charles F., Denver, Ind. Compass. No. 1,327,154; Jan. 6; v. 270; p. 51.
Golden, Daniel J., Brockton, Mass. Running-shoe. No. 1,333,409; Mar. 9; v. 272; p. 485.
Golden, Edward B., Hamilton, Ontario, Canada. Mop. No. 1,358,076; Nov. 9; v. 280; p. 229.
Golden Glow Sign Corporation. (See Limpert, Alexander S., assignor.)
Golden, Joseph A., New York, N. Y. Motion-picture camera. No. 1,340,539; May 18; v. 274; p. 478.
Golden, P. F. (See Beach, John, assignor.)
Golden, William E., Chicago, Ill. Intensified illuminating and advertising system. No. 1,361,457; Dec. 7; v. 281; p. 97.
Goldfaden, Samuel, New York, N. Y. Rimmed eyeglasses and spectacles. No. 1,341,503; May 25; v. 274; p. 744.
Goldfarb, Nathan J., Brooklyn, and B. Sacks, New York, N. Y. Cloth-cutter. No. 1,342,210; June 1; v. 275; p. 118.
Goldhart, Frederick H., *et al.* (See Simerson, Charles H., assignor.)
Goldie, Louis, Baltimore, Md. Headlight-beam modifier. No. 1,333,482; Mar. 9; v. 272; p. 299.
Goldie, William, Wilkinsburg, Pa. Reinforcing means for concrete structures. No. 1,344,881; June 29; v. 275; p. 887.
Goldie, William, Wilkinsburg, Pa. Reinforcing structure for concrete. No. 1,344,882; June 29; v. 275; p. 887.
Goldie, William, Wilkinsburg, Pa. Reinforcing means for concrete structures. No. 1,344,942; June 29; v. 275; p. 898.
Goldie, William, Wilkinsburg, Pa. Reinforcing means for concrete structures. (Reissue.) No. 14,941; Aug. 31; v. 277; p. 935.
Goldin, David. (See Alpert, N., and Goldin.)
Goldman, Samuel S., St. Louis, Mo. Washing-machine. No. 1,353,829; Sept. 28; v. 278; p. 553.
Goldner, Joe, New York, N. Y. Combination mattress and pillow. No. 1,359,801; Nov. 23; v. 280; p. 659.
Goldschmidt, Hans, and K. Müller, Essen, Germany, assignors, by mesne assignments, to The Chemical Foundation, Inc. Zinc alloy. No. 1,338,826; May 4; v. 274; p. 33.
Goldschmidt, Hans and K. Müller, assignors, by mesne assignments, to The Chemical Foundation, Inc., Essen, Germany. Zinc alloy. No. 1,358,147; Nov. 9; v. 280; p. 243.
Goldschmidt, Heinrich J., assignor to Det Norske Aktieselskab for Elektrokemisk Industri, Norsk Industri-Hypotekband, Christiania, Norway. Producing aluminium compounds. No. 1,354,824; Oct. 5; v. 279; p. 75.
Goldschmidt, Victor M. (See Neilsen, L., and Goldschmidt.)
Goldschmidt, Victor M., assignor to Titan Co. A/S., Christiania, Norway. Pigment and its manufacture. No. 1,343,446; June 15; v. 275; p. 475.
Goldschmidt, Victor M., assignor to Titan Co. A/S., Christiania, Norway. Pigment containing titanium-oxygen compound. No. 1,343,447; June 15; v. 275; p. 475.
Goldschmidt, Victor M., assignor, by mesne assignments, to Titan Co. A./S., Christiania, Norway. Compound of titanium and manufacture of same. No. 1,348,129; July 27; v. 276; p. 731.
Goldschmidt, Victor M., and O. Ravner, assignors to Det Norske Aktieselskab for Elektrokemisk Industri of Norway, Christiania, Norway. Producing alumina from clay and similar materials. No. 1,357,089; Oct. 26; v. 279; p. 658.
Goldsmith, Alfred N., New York, N. Y., assignor to General Electric Company. Radiosignaling system. No. 1,347,328; July 20; v. 276; p. 516.
Goldsmith, Alfred N., and J. Weinberger, New York, N. Y., assignors to General Electric Company. System for producing oscillations. No. 1,334,087; Mar. 16; v. 272; p. 474.
Goldsmith, Byron B., New York, N. Y., and H. Barker, Hoboken, N. J., assignors to American Lead Pencil Company. Process and apparatus of forming rods from plastic material. No. 1,362,093; Dec. 14; v. 281; p. 269.
Goldsmith, Byron B., New York, N. Y., and W. Burt, Sr., Delawanna, N. J., assignors to American Lead Pencil Company. Manufacturing rods from plastic material. No. 1,362,094; Dec. 14; v. 281; p. 270.
Goldsmith, Byron B., New York, N. Y., W. Burt, Sr., Delawanna, and H. Barker, Hoboken, N. J., assignors to American Lead Pencil Company. Apparatus for manufacturing rods from plastic material. No. 1,362,095; Dec. 14; v. 281; p. 270.
Goldsmith, Charles B., Waterbury, Conn. Transit-chute for safety-pin-carding apparatus. No. 1,335,731; Apr. 6; v. 273; p. 5.
Goldsmith, Daniel W., Campbell, Mo. Poultry-nest. No. 1,359,052; Nov. 16; v. 280; p. 467.
Goldsmith, David, Newark, N. J. Garment-hanger. No. 1,344,391; June 22; v. 275; p. 726.
Goldsmith, Joseph, Jr. (See Maker, Ralph K., assignor.)
Goldsmith, L., & Son. (See Osterweil, Sydney, assignor.)
Goldsmith, Marcus T., Newark, N. J. Locking device for frames of bags, purses, and like articles. No. 1,335,575; Mar. 30; v. 272; p. 859.
Goldsmith, Mary I., The Plains, Va. Corn-thinner. No. 1,343,558; June 15; v. 275; p. 498.
Goldsmith, William H., Jr., Quincy, Mass. Pneumatic card-cleaning apparatus. No. 1,338,651; Apr. 27; v. 273; p. 761.
Goldstein, Abraham, assignor to Elgin Silk Waist Co., Philadelphia, Pa. Supporting and exhibiting device for boxes. No. 1,357,700; Nov. 2; v. 280; p. 94.
Goldstein, Abe, *et al.* (See Steiff, William, assignor.)
Goldstein, Alexander. (See Moran, Walter R., assignor.)
Goldstein, Ben F. (See Bell, R. T., and Mandel, assignors.)
Goldstein, Hyman, Brooklyn, N. Y. Bottle-closure. No. 1,349,830; Aug. 17; v. 277; p. 456.
Goldstein, Isadore, *et al.* (See Steiff, William, assignor.)
Goldstein, Jacob, assignor to J. J. Munley, West Hazleton, Pa. Rotary toothbrush. No. 1,330,525; Feb. 10; v. 271; p. 252.
Goldstein, Meyer, *et al.* (See Steiff, William, assignor.)
Goldstein, Morris, Pittsburgh, Pa. Lounging-footrest. No. 1,362,692; Dec. 21; v. 281; p. 438.
Goldstein, Samuel, *et al.* (See Steiff, William, assignor.)
Goldstein, Samuel, Chicago, Ill. Bed davenport or couch. No. 1,330,982; Feb. 17; v. 271; p. 407.
Goldstein, Simon I., Baltimore, Md. Umbrella-tip. No. 1,336,218; Apr. 6; v. 273; p. 97.
Goldstein, Simon I., Baltimore, Md. Umbrella-tip. No. 1,336,219; Apr. 6; v. 273; p. 97.

Digitized by Google

Goldstone, Morris, Brooklyn, N. Y. Window-cleaner. No. 1,353,741; Sept. 21; v. 278; p. 493.
Goldstone, Saul, Brooklyn, N. Y. Oil-saving drip-pan for sewing-machines. No. 1,334,088; Mar. 16; v. 272; p. 474.
Goldthwaite, Helen A., Saco, Me. Conducting-cord holder. No. 1,329,173; Jan. 27; v. 270; p. 558.
Goldthwaite, John R., Atlanta, Ga. Electric heater. No. 1,331,496; Feb. 24; v. 271; p. 522.
Golein, Mark. (See Murphy, Mathilde R., assignor.)
Gollings, Ellick H., Chicago, Ill. Rotary power device. No. 1,341,846; June 1; v. 275; p. 46.
Gollings, Ellick H., Chicago, Ill. Rotary power device. No. 1,361,046; Dec. 7; v. 281; p. 13.
Gollner, Ervin G., New York, N. Y. Amusement device. No. 1,332,174; Feb. 24; v. 271; p. 650.
Golloher, Charles H., Bellville, Tex. Discharge device for cotton-seed unloaders. No. 1,340,164; May 18; v. 274; p. 418.
Golly, Louis, Brooklyn, assignor of fifty-one per cent. to A Albright, Jr., New York, N. Y. Bearing. No. 1,346,121; July 13; v. 276; p. 218.
Golonka, Jozef, Detroit, Mich. Tobacco-box. No. 1,360,027; Nov. 30; v. 280; p. 948.
Golstein, Albert, assignor to S. B. Hess, New York, N. Y. Electrical thermostat. No. 1,328,427; Jan. 20; v. 270; p. 388.
Gomborrow, Joel, Lynn, Mass., assignor to General Electric Company. Centrifugal compressor. No. 1,350,927; Aug. 24; v. 277; p. 715.
Gomez, Joseph, Jacksonville, Ill. Mixing device. No. 1,335,680; Mar. 30; v. 272; p. 880.
Gomler, Theophil. (See Pearson, Raymond V., assignor.)
Gomil, Paul, Brooklyn, N. Y. Watch-protector. No. 1,348,866; Aug. 10; v. 277; p. 194.
Gomory, Albert B. (See Berdon, A. E., Ringwald, and Gomory.)
Gomsrud, Axel, Portland, Oreg. Concrete construction. No. 1,346,016; July 6; v. 276; p. 136.
Gondek, John, St. Paul, Minn. Printing apparatus. No. 1,347,505; July 27; v. 276; p. 607.
Gonen, Hayman. (See Cantor, S., and Gonen.)
Gongaware, William F., Ocean Park, Calif. Title attachment for cameras. No. 1,362,787; Dec. 21; v. 281; p. 457.
Góngora, Tomás, San Antonio, Tex. Man's garment. No. 1,337,698; Apr. 20; v. 273; p. 512.
Gonsky, Peter R., Chicago, Ill. Combination phonograph and lamp. No. 1,353,469; Sept. 21; v. 278; p. 438.
Gonsky, Peter R., Chicago, Ill. Sound-amplifier. No. 1,356,351; Oct. 19; v. 279; p. 468.
Gonsky, Peter R., assignor to Endlessgraph Manufacturing Company, Detroit, Mich. Combined table light, fan, and phonograph. No. 1,359,053; Nov. 16; v. 280; p. 467.
Gontard, Georg H. Probstdeuben, and A. Keller, Leipzig-Schleussig, Germany, assignors, by mesne assignments, to The Chemical Foundation, Inc. Preparation of oxalic acid. No. 1,356,137; Oct. 19; v. 279; p. 425.
Gonzales, Feliciano, New York, N. Y. Dental tool. No. 1,356,352; Oct. 19; v. 279; p. 468.
Gonzales, Hugh F. (See Saltmarsh, T. W., and Gonzales.)
González, Joaquin M., Siboney, Firmeza, Cuba. Injector. No. 1,361,715; Dec. 7; v. 281; p. 148.
Gooch, Claiborne W., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding and subtracting machine. No. 1,327,318; Jan. 6; v. 270; p. 81.
Gooch, Claiborne W., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 1,327,319; Jan. 6; v. 270; p. 81.
Gooch, Claiborne W., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 1,327,320; Jan. 6; v. 270; p. 81.
Good Inventions Co. (See Good, John, assignor.)
Good Inventions Co. (See Lucke, C. E., and Good, assignors.)
Good, John. (See Lucke, C. E., and Good.)
Good, John, Brooklyn, N. Y. Rotary valve. No. 1,329,521; Feb. 3; v. 271; p. 34.
Good, John, Brooklyn, N. Y. Combustion-engine. No. 1,332,332; Mar. 2; v. 272; p. 29.
Good, John, Brooklyn, N. Y. Kerosene and like engine. No. 1,359,166; Nov. 16; v. 280; p. 488.
Good, John, Brooklyn, N. Y. Water-circulating system for internal-combustion engines. No. 1,359,694; Nov. 23; v. 280; p. 637.
Good, John, assignor to Good Inventions Co., Brooklyn, N. Y. Combustion apparatus. No. 1,331,985; Feb. 24; v. 271; p. 615.
Good, John, assignor to Good Inventions Co., Brooklyn, N. Y. Combustion apparatus. No. 1,334,446; Mar. 23; v. 272; p. 587.
Good, John, assignor to Good Inventions Co., Brooklyn, N. Y. Confined-combustion method. No. 1,342,901; June 8; v. 275; p. 306.
Good, John, assignor to Good Inventions Co., Brooklyn, N. Y. Heating apparatus. No. 1,345,361; July 6; v. 276; p. 7.
Good, John, assignor to Good Inventions Co., Brooklyn, N. Y. Heating apparatus. No. 1,349,668; Aug. 17; v. 277; p. 425.
Good Roads Co., The. (See Worley, G. I., and Logan, assignors.)
Good, Samuel S., Jenkintown, Pa. Sanitary hen's nest. No. 1,338,725; May 4; v. 274; p. 14.
Goodall, Howard W., Aldan, Pa. Hose. No. 1,357,701; Nov. 2; v. 280; p. 94.
Goodchild, Euclid P., Spokane, Wash. Signal for motor-vehicles. No. 1,347,945; July 27; v. 276; p. 694.
Goodell, William H., Lynn, Mass. Seal. No. 1,332,291; Mar. 2; v. 272; p. 22.
Goodenberger, Daniel E., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Adjustable die for rubber-extruding machines. No. 1,350,722; Aug. 24; v. 277; p. 676.
Goodfellow, Willard J., Bentley Springs, Md. Machine for making cigar-wrappers from tobacco-stems. No. 1,332,252; Mar. 2; v. 272; p. 14.
Goodfellow, Willard J., Bentley Springs, Md. Making cigar-wrappers. No. 1,338,827; May 4; v. 274; p. 33.
Goodfriend, Samuel, Yonkers, N. Y. Bread-pan. No. 1,336,292; Apr. 6; v. 273; p. 111.
Goodnow, Fred A., Chicago, Ill. Exhibiting device. No. 1,361,981; Dec. 14; v. 281; p. 247.
Goodhue, Julian G., Chicago, Ill. Atomizer. No. 1,329,833; Feb. 3; v. 271; p. 91.
Goodhue, Julian G., Chicago, Ill. Atomizer. No. 1,329,834; Feb. 3; v. 271; p. 92.
Goodhue, Julian G., assignor to The Universal Utilities Company of Illinois, Chicago, Ill. Atomizer. No. 1,332,622; Mar. 2; v. 272; p. 86.
Goodhue, Julian G., assignor to The Universal Utilities Company of Illinois, Chicago, Ill. Disinfecting or air-purifying apparatus. No. 1,332,623; Mar. 2; v. 272; p. 86.
Goodhue, Julian G., and P. B. Sadtler; said Sadtler assignor to said Goodhue, Chicago, Ill. Apparatus for treating food materials and other articles. No. 1,358,309; Nov. 9; v. 280; p. 275.
Goodie, Frank J., Dover, N. H. Combination protractor, bevel, and level. No. 1,344,269; June 22; v. 275; p. 702.
Goodill, William. (See Tiffin, John, assignor.)
Gooding, Charles W., Jr., Wilmington, Del. Internal-combustion engine. No. 1,330,629; Feb. 10; v. 271; p. 271.
Gooding, George E. (See Robinson and Gooding.)
Goodlake, Frederick D., Memphis, Tenn. Manifold-heater. No. 1,346,745; July 13; v. 276; p. 342.
Goodlett, Edgar N., Chicago, Ill., assignor to Monolithic Machine Company. Vibrator. No. 1,340,860; May 18; v. 274; p. 548.
Goodman, Ira V., Altoona, Pa. Toy switch. No. 1,355,467; Oct. 12; v. 279; p. 254.
Goodman, Joseph C., Columbus, Ohio. Car-ventilator. No. 1,358,198; Nov. 9; v. 280; p. 253.
Goodman Manufacturing Company. (See Davis, Charles E., assignor.)
Goodman Manufacturing Company. (See Pratt, Charles A., assignor.)
Goodman Manufacturing Company. (See Sloane, William W., assignor.)
Goodman, Milton, New York, N. Y. Toy book. No. 1,346,017; July 6; v. 276; p. 136.
Goodman, Samuel, Brooklyn, N. Y. Heating device. No. 1,343,670; June 15; v. 275; p. 520.
Goodrich, B. F., Company, The. (See Bourguignon, Jules, assignor.)
Goodrich, B. F., Company, The. (See Converse, F. B., and Butler, assignors.)
Goodrich, B. F. Company, The. (See Falor, A. E., and MacDonald, assignors.)
Goodrich, B. F., Company, The. (See Freedlander, Abraham L., assignor.)
Goodrich, B. F., Company, The. (See Gammeter, John R., assignor.)
Goodrich, B. F., Company, The. (See Goff, William F., assignor.)
Goodrich, B. F., Company, The. (See McConnell, Shank, assignor.)
Goodrich, B. F., Company, The. (See Pease, Fred I., assignor.)
Goodrich, B. F., Company, The. (See Pierce, Robert C., assignor.)
Goodrich, B. F., Company, The. (See Teed, Earl S., assignor.)
Goodrich, B. F., Company, The. (See Troche, William C., assignor.)
Goodrich, B. F., Company, The. (See Wagenhorst, James H., assignor.)
Goodrich, Chauncey M., U. S. Army. Building unit. No. 1,340,949; May 25; v. 274; p. 636.
Goodrich, Chauncey M., U. S. Army. Knockdown building. No. 1,350,493; Aug. 24; v. 277; p. 632.
Goodrich, George N., assignor to Continental Motors Corporation, Detroit, Mich. Motion-converting means. No. 1,355,468; Oct. 12; v. 279; p. 254.
Goodridge, Gilbert W., assignor to The Bryant Electric Company, Bridgeport, Conn. Fuse-plug. No. 1,330,630; Feb. 10; v. 271; p. 271.
Goodridge, Gilbert W., assignor to The Bryant Electric Company, Bridgeport, Conn. Attachment-plug. No. 1,340,856; May 18; v. 274; p. 547.

Digitized by Google

Goodridge, Gilbert W., assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn. Chain. No. 1,340,765; May 18; v. 274; p. 530.
Goodrum, Charles L. (See Clausen, H. P., and Goodrum.)
Goodrum, Charles L. (See Lattig, J. W., and Goodrum.)
Goodrum, Charles L., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Finder-starting system. No. 1,330,464; Feb. 10; v. 271; p. 241.
Goodrum, Charles L., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,334,300; Mar. 23; v. 272; p. 559.
Goodrum, Charles L., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,334,447; Mar. 23; v. 272; p. 587.
Goodrum, Charles L., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,337,309; Apr. 20; v. 273; p. 439.
Goodrum, Charles L., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,337,310; Apr. 20; v. 273; p. 439.
Goodrum, Charles L., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,337,699; Apr. 20; v. 273; p. 513.
Goodrum, Charles L., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,342,902; June 8; v. 275; p. 306.
Goodrum, Charles L., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,361,980; Dec. 14; v. 281; p. 247.
Goodrum, Charles L., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,362,096; Dec. 14; v. 281; p. 270.
Goodrum, Charles L., Brooklyn, N. Y., and J. A. Kropp, Oak Park, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Selecting-switch. No. 1,334,750; Mar. 23; v. 272; p. 644.
Goodrum, Edward F., Macon, Ga. Highway surface signal device. No. 1,357,860; Nov. 2; v. 280; p. 126.
Goodrum, Thomas J., Houston, Tex. Peanut-harvester. No. 1,358,539; Nov. 9; v. 280; p. 321.
Goodsell, Byron W., Chicago, Ill. Plastic metallic packing. No. 1,355,830; Oct. 19; v. 279; p. 364.
Goodson, Rasey J., Appleton City, Mo. Wheel construction. No. 1,351,640; Aug. 31; v. 277; p. 918.
Goodstein, Charles B., Struthers, Ohio. Air-pump. No. 1,335,051; Mar. 30; v. 272; p. 762.
Goodwin, Camillo J., London, England. Gas and liquid contact device. No. 1,360,928; Nov. 30; v. 280; p. 948.
Goodwin, Charles, East Providence, assignor to E. W. Martin, Barrington, Laurence C. Martin, Providence, R. I., and G. W. Bleecker, Chicago, Ill., trustees. Lens-grinding machine. No. 1,343,050; June 8; v. 275; p. 335.
Goodwin, Delbert C., Flat Rock, Ind. Stretcher. No. 1,332,624; Mar. 2; v. 272; p. 86.
Goodwin, Frank C., Portsmouth, Ohio. Bridge-tooth. No. 1,335,681; Mar. 30; v. 272; p. 880.
Goodwin, Frank C., Portsmouth, Ohio. Tooth having an interchangeable facing. No. 1,342,379; June 1; v. 275; p. 149.
Goodwin, George, Newtown, assignor to G. H. Lyster, Wellington, New Zealand. Bedstead. No. 1,337,012; Apr. 12; v. 273; p. 308.
Goodwin, George S., and J. J. Acker, Chicago, Ill. Clear-vision window. No. 1,327,321; Jan. 6; v. 270; p. 82.
Goodwin, Grover C. (See Goodwin, James D., and G. C.)
Goodwin, Hall, Chicago, Ill. Fire-prevention device for motion-picture apparatus. No. 1,353,389; Sept. 21; v. 278; p. 422.
Goodwin, Harley E., Washington, D. C. Shears. No. 1,354,968; Oct. 5; v. 279; p. 104.
Goodwin, James D., Richmond, Va., assignor of one-half to W. K. Dennis. Safety-razor. No. 1,327,547; Jan. 6; v. 270; p. 125.
Goodwin, James D. and G. C., Richmond, Va. Liquid-fuel burner. No. 1,351,848; Sept. 7; v. 278; p. 27.
Goodwin, John O. (See Shutts, B. A., and Goodwin.)
Goodwin, Lyle, Omaha, Nebr. Grave-lining device. No. 1,348,405; Aug. 3; v. 277; p. 54.
Goodwin, Percy V., Golders Green, London, England. Box, case, and like receptacle. No. 1,358,540; Nov. 9; v. 280; p. 322.
Goodwin, William L., *et al.* (See Goodwin, W. M., and Cadenhead, assignors.)
Goodwin, William M., and A. F. G. Cadenhead, Kingston, Ontario, Canada, assignors to W. L. Goodwin, Kingston, Canada, and W. P. Firth, Toronto, Canada. Recovering vanadium from certain iron ores. No. 1,359,473; Nov. 16; v. 280; p. 549.
Goodwirth, Emil, St. Louis, Mo. Writing and engrossing ink. No. 1,347,454; July 20; v. 276; p. 540.
Goodyear, Edward T. P., Reigate Heath, England. Facial pad adapted for use with field-glasses and other optical instruments and means for supporting the same alone or with other instruments or appliances on the head of the observer. No. 1,356,708; Oct. 26; v. 279; p. 583.
Goodyear, Ernest F., Dudley, England. Machine for rolling wheel-rims. No. 1,329,659; Feb. 3; v. 271; p. 58.
Goodyear, Ernest F., Dudley, England. Machine for finishing metallic wheel-rims. No. 1,333,170; Mar. 9; v. 272; p. 240.
Goodyear Tire & Rubber Company, The. (See Carter, William C., assignor.)
Goodyear Tire & Rubber Company, The. (See Darrow, Burgess, assignor.)
Goodyear Tire & Rubber Company, The. (See Day, Ralph B., assignor.)
Goodyear Tire & Rubber Company, The. (See Harsel, William B., assignor.)
Goodyear Tire & Rubber Company, The. (See Kraft, Herman T., assignor.)
Goodyear Tire & Rubber Company, The. (See Lewis, Arthur P., assignor.)
Goodyear Tire & Rubber Company, The. (See Metzler, William M., assignor.)
Goodyear Tire & Rubber Company, The. (See Roth, Charles H., assignor.)
Goodyear Tire & Rubber Company, The. (See Scott, Winfield, assignor.)
Goodyear Tire & Rubber Company, The. (See Steele, Frank A., assignor.)
Goodyear Tire & Rubber Company, The. (See Templeton, Edwin G., assignor.)
Goodyear Tire and Rubber Company, The. (See Tyler, William C., assignor.)
Goodyear Tire & Rubber Company, The. (See Upson, Ralph H., assignor.)
Goodyear, William E., New York, N. Y. Vending-machine. No. 1,335,493; Mar. 30; v. 272; p. 844.
Goodyear's India Rubber Glove Manufacturing Company, The. (See Eggers, Anton C., assignor.)
Goodyear's India Rubber Glove Manufacturing Company. (See Hubbell, Clarence W., assignor.)
Goodyear's Metallic Rubber Shoe Company, The. (See Price, Raymond B., assignor.)
Gookin, Sylvester L., Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Setting eyelets. No. 1,327,033; Jan. 6; v. 270; p. 29.
Goold, Everett E., assignor of one-half to C. H. Van Tilborg, Victor, Colo. Automobile throttle-lever lock. No. 1,356,863; Oct. 26; v. 279; p. 614.
Gordon, Albert J., Pawhuska, Okla., assignor of one-fourth to E. B. Colwell, one-fourth to E. Colwell, and one-fourth to C. F. Gross, Monmouth, Ill. Player-piano. No. 1,359,054; Nov. 16; v. 280; p. 468.
Gordon, Alexander W., Crossfields, Alberta, Canada. Lifting-jack. No. 1,348,867; Aug. 10; v. 277; p. 194.
Gordon, Benjamin, New York, N. Y. Tag. No. 1,353,952: Sept. 28; v. 278; p. 578.
Gordon, Byron B., Logansport, Ind. Weighing-scale. No. 1,331,757; Feb. 24; v. 271; p. 572.
Gordon, Colin H. (See Tripp, Francis E. B., assignor.)
Gordon, David D., Chicago, Ill. Plural socket. No. 1,341,054; May 25; v. 274; p. 657.
Gordon, David L., New York, N. Y. Lock-operated circuit-closer. No. 1,347,506; July 27; v. 276; p. 607.
Gordon, Frederick H., Sydney, New South Wales, Australia. Spring latch or lock for motor-car doors. No. 1,333,974; Mar. 16; v. 272; p. 452.
Gordon, Hayner H. (See Pierce, J. F., and Gordon.) (Reissue.)
Gordon, Hayner H., Washington, D. C. Electrical system. No. 1,328,374; Jan. 20; v. 270; p. 378.
Gordon, Hayner H., Washington, D. C. Dynamo-electric machine. No. 1,330,021; Feb. 3; v. 271; p. 126.
Gordon, Henry C., assignor to Glascock Juvenile Goods Company, Muncie, Ind. Collapsible baby-walker. No. 1,357,043; Oct. 26; v. 279; p. 649.
Gordon, Henry L. (See Brunelle, Arthur, assignor.)
Gordon, James, Monmouth, Ill. Rotary harrow. No. 1,331,340; Feb. 17; v. 271; p. 472.
Gordon, James, Monmouth, Ill. Mulshing-chain. No. 1,335,052; Mar. 30; v. 272; p. 762.
Gordon, James C., Monmouth, Ill. Barrel-cart. No. 1,342,437; June 8; v. 275; p. 214.
Gordon, James F., Toledo, Ohio. Kinetoscopic shutter. No. 1,340,887; May 25; v. 274; p. 624.
Gordon, John, New York, N. Y. Separating and extracting zirconium oxid (zirconia) from ores and minerals. No. 1,340,888; May 25; v. 274; p. 625.
Gordon, Johnston R. (See Simpson, G., and Gordon, assignors.)
Gordon, Myron B., Wilkinsburg, Pa., assignor to Ansco Company, Binghamton, N. Y. Automatic film-winding camera. No. 1,331,848; Feb. 24; v. 271; p. 590.
Gordon, Myron B., Wilkinsburg, Pa., assignor to Ansco Company, Binghamton, N. Y. Automatic film-winding camera. No. 1,331,849; Feb. 24; v. 271; p. 590.
Gordon, Norman Y., Rochester, N. Y., and J. Hodges, Detroit, Mich. Automobile-signal. No. 1,349,063; Aug. 10; v. 277; p. 233.
Gordon, Paca C., *et al.* (See Blankfield, George, assignor.)
Gordon, Thomas, Vancouver, British Columbia, Canada. Tire. No. 1,348,714; Aug. 3; v. 277; p. 113.
Gordon, Thomas, Philadelphia, Pa. Curling hair or similar fibrous material. No. 1,353,337; Sept. 21; v. 278; p. 412.
Gordon, Wiley P., assignor of one-half to T. B. Jacocks, Tarboro, N. C. Tire. No. 1,334,448; Mar. 23; v. 272; p. 588.

Digitized by Google

Gordon, William A., Shelton, assignor to Birmingham Iron Foundry, Derby, Conn. Pneumatic clutch. No. 1,360,304; Nov. 30; v. 280; p. 844.
Gore, Daniel W., Buffalo, N. Y. Traffic-signal. No. 1,354,249; Sept. 28; v. 278; p. 639.
Gore, Frederick W., Huntington, N. Y. Ship's-hull construction. No. 1,339,755; May 11; v. 274; p. 283.
Gore, Herbert C., Takoma Park, Md. Manufacture of dextrin and other modified starch products. No. 1,335,162; Mar. 30; v. 272; p. 783.
Gore, Jacob L., assignor of one-half to A. L. Blount, Hugo, Okla. Automatic ticket-dispensing machine. No. 1,337,837; Apr. 20; v. 273; p. 539.
Gore, Jacob L., assignor of one-half to J. M. Warren, Hugo, Okla. Station-indicator. No. 1,342,283; June 1; v. 275; p. 131.
Goreau, Nelson G., New Orleans, La. Water-heater. No. 1,346,952; July 20; v. 276; p. 442.
Gorgichuk, Nick, and F. Solomon, Regina, Saskatchewan, Canada. Pants stretcher and presser. No. 1,335,436; Mar. 30; v. 272; p. 834.
Gorham, Edwin T., assignor to Wilmarth & Morman Company, Grand Rapids, Mich. Dressing-tool for grinding-wheels. No. 1,339,452; May 11; v. 274; p. 225.
Gorham, Richard C., Kirklin, Ind. Float-valve. No. 1,355,141; Oct. 12; v. 279; p. 189.
Gorman, Horace P., New York, N. Y. Mechanical movement. No. 1,342,019; June 1; v. 275; p. 79.
Gorman, John, Boston, Mass. Pipe-coupling. No. 1,357,974; Nov. 9; v. 280; p. 209.
Gorman, John F., Portland, Oreg. Spark-controlling mechanism for internal-combustion engines. No. 1,336,850; Apr. 6; v. 273; p. 122.
Gorman, John F., Portland, Oreg. Clutch. No. 1,341,796; June 1; v. 275; p. 36.
Gorman, John F., Seattle, Wash. Stump-puller. No. 1,350,994; Aug. 24; v. 277; p. 727.
Gorman, John F., Portland, Oreg., assignor, by mesne assignments, to A. J. Kirstin Company, Escanaba, Mich. Stump-puller. No. 1,348,940; Aug. 10; v. 277; p. 209.
Gormley, Frank L., Brookline, assignor to A. O. Norton, Inc., Boston, Mass. Lifting-jack. No. 1,334,488; Mar. 23; v. 272; p. 595.
Gormley, Frank L., Brookline, assignor to A. O. Norton, Inc., Boston, Mass. Operating mechanism. No. 1,334,489; Mar. 23; v. 272; p. 595.
Gorny, Piotr, East Chicago, Ind. Floor-washing machine. No. 1,358,310; Nov. 9; v. 280; p. 275.
Gorowitz, Louis H., New York, N. Y. Lock. No. 1,334,852; Mar. 23; v. 272; p. 664.
Gorr, Louis L., Marshfield, Oreg. Downdraft-heater. No. 1,356,138; Oct. 19; v. 279; p. 425.
Gorr, Wallace H., Milwaukee, Wis. Lock-nut. No. 1,338,862; May 4; v. 274; p. 39.
Gorsline, Hathaway M., Niles, Mich. Joint-lock for frame structures. No. 1,356,062; Oct. 19; v. 279; p. 410.
Gorsuch, George J. (See Boulton, G., and Gorsuch.)
Gorsuch, George J., Rochester, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J. Work-positioning means for upper-forming machines. No. 1,349,669; Aug. 17; v. 277; p. 426.
Gorsuch, H. A., *et al.* (See Johnson, Albert S., assignor.)
Gorton, Arthur C., and G. R. Carr, Titusville, Pa. Filter. No. 1,337,066; Apr. 13; v. 273; p. 319.
Gorton, George. (See Tausch, Joseph H., assignor.)
Gorton, Robert, deceased, C. W. Noyes, administrator, Brookline, Mass. Garter. No. 1,351,567; Aug. 31; v. 277; p. 904.
Gorton, Robert, deceased; C. W. Noyes, administrator, Brookline, Mass. Making garters. No. 1,352,258; Sept. 7; v. 278; p. 105.
Gosar, Ivan, Bethlehem, Pa. Curtain and shade support. No. 1,351,289; Aug. 31; v. 277; p. 848.
Goschke, William E., Lowellville, Ohio. Musical toy. No. 1,345,085; June 29; v. 275; p. 925.
Gosline, Harold I., Worcester, Mass. Freezing attachment for microtomes. No. 1,343,051; June 8; v. 275; p. 335.
Gosling, Joseph H., *et al.* (See Dobbins, George R., assignor.)
Gosling, Otto W. E. (See Ekberg, Hjalmar J., assignor.)
Gosnell, Viola J. (See Osgood, Gilbert E., assignor.)
Goss, Charles E. (See Goss, George W., assignor.)
Goss, Charles E. (See Goss, George W. and C. E.)
Goss, Claude L., Shreveport, La. Rotary oil-well rig. No. 1,363,110; Dec. 21; v. 281; p. 519.
Goss, George D., Armour, S. D. Upsetting-preventing and hitching attachment for tractors. No. 1,356,139; Oct. 19; v. 279; p. 425.
Goss, George W., Lubbock, assignor to Pneumatic Pump Company, Dallas, Tex. Pneumatic pump. No. 1,344,883; June 29; v. 275; p. 887.
Goss, George W., assignor of one-half to C. E. Goss, Baltimore, Ohio. Gate-latch. No. 1,358,077; Nov. 9; v. 280; p. 229.
Goss, George W., assignor of one-half to C. E. Goss, Baltimore, Ohio. Gate-hinge. No. 1,362,415; Dec. 14; v. 281; p. 332.
Goss, George W. and C. E., Baltimore, Ohio. Farm-gate. No. 1,343,559; June 15; v. 275; p. 498.
Goss, Harry T., Rutherford, N. J., and J. W. Bryce, Binghamton, N. Y. Recorder. No. 1,348,217; Aug. 3; v. 277; p. 17.
Goss, Harry T., Rutherford, N. J., and J. W. Bryce, Binghamton, N. Y. Time-recorder. No. 1,348,218; Aug. 3; v. 277; p. 17.
Goss, Jeff D., Lake City, Fla. Dress-hook. No. 1,333,483; Mar. 9; v. 272; p. 299.
Goss, Jeff D., Lake City, Fla. Fishing-net. No. 1,341,552; May 25; v. 274; p. 753.
Goss Printing Press Company. (See Evensen, William M., assignor.)
Goss Printing Press Company. (See Seymour, Ralph C., assignor.)
Goss Printing Press Company, The. (See Smith, Ernest J., assignor.)
Goss Printing Press Company. (See Walser, Joseph J., assignor.)
Gossage, Charles C., Birmingham, England. Bolt-fastening for the lids of boxes, cases, and other receptacles having lids. No. 1,346,450; July 13; v. 276; p. 283.
Gosselin, Henry G., and W. B. Mahern, Berlin, N. H. High-pressure fluid-pump. No. 1,356,063; Oct. 19; v. 279; p. 410.
Gossling, Walter E. (See Noble, I. M., and Gossling.)
Gosstrom, Edith, *et al.* (See Gosstrom, Hugo, assignor.)
Gosstrom, Herman, *et al.* (See Gosstrom, Hugo, assignor.)
Gosstrom, Hugo, assignor of one-twelfth to H. Gosstrom, one-eighteenth to J. E. Gosstrom, one-eighteenth to S. Gosstrom, and one-eighteenth to E. Gosstrom, Chicago, Ill. Pressure-gage and tire-valve. No. 1,357,826; Nov. 2; v. 280; p. 17.
Gosstrom, John E., *et al.* (See Gosstrom, Hugo, assignor.)
Gosstrom, Selma, *et al.* (See Gosstrom, Hugo, assignor.)
Gothner, John, assignor of one-fifth to E. W. Cook, one-fifth to W. R. Hallem, one-fifth to J. Haney, and one-fifth to S. L. Perrin, Superior, Wis. Oil and dust guard for journal-box. No. 1,336,428; Apr. 13; v. 273; p. 196.
Gott, Ira E., and J. O. Longstreet, Los Angeles, Calif. Combination alarm and indicator for fishing-rods. No. 1,330,314; Feb. 10; v. 271; p. 212.
Gottlieb, Ethel, Newark, N. J. Combination-garment. No. 1,363,038; Dec. 21; v. 281; p. 505.
Gotto, Louis J., Green Bay, Wis. Track-motor. No. 1,359,359; Nov. 16; v. 280; p. 521.
Gottschall, Simon, *et al.* (See Case, William A., assignor.)
Gottschalk, Charles, St. Paul, Minn. Scraper. No. 1,327,155; Jan. 6; v. 270; p. 52.
Gottschalk, John J., Taunton, Mass. Coat-hanger. No. 1,342,166; June 1; v. 275; p. 109.
Gottwald, Christian, assignor to The Ric-Wil Company, Cleveland, Ohio. Vitrified-tile conduit. No. 1,357,702; Nov. 2; v. 280; p. 95.
Gotty, John G., Jacksonville, Fla. Paint. No. 1,330,022; Feb. 3; v. 271; p. 126.
Goudelock, John M., and R. E. Weinberg, Birmingham, Ala. Method and means for advertising and selling phonograph-records and sheet-music. No. 1,331,254; Feb. 17; v. 271; p. 457.
Goudet, Charles. (See Darier, G., and Goudet.)
Goudie, Charles R., assignor of one-fourth to L. Goudie, one-fourth to G. A. Goudie, and one-fourth to H. G. Carnie, Kansas City, Mo. Building structure. No. 1,363,407; Dec. 28; v. 281; p. 616.
Goudie, George A., *et al.* (See Goudie, Charles R., assignor.)
Goudie, John N., Hunters Quay, Scotland. Luffing mechanism for jib-cranes. No. 1,338,726; May 4; v. 274; p. 14.
Goudie, Le Roy, *et al.* (See Goudie, Charles R., assignor.)
Goudy, George M., Goshen, Ind. Cushion-tire. No. 1,348,105; July 27; v. 276; p. 727.
Gough, Achilles C., Pocatello, Idaho. Rotary screen. No. 1,360,929; Nov. 30; v. 280; p. 948.
Goughnour, Charles L., assignor to The United Electric Company, Canton, Ohio. Suction cleaning-nozzle. No. 1,355,553; Oct. 12; v. 279; p. 270.
Gould, Augustus W., Seattle, Wash. Convertible building. No. 1,356,709; Oct. 26; v. 279; p. 583.
Gould Coupler Company. (See Creveling, John L., assignor.)
Gould Coupler Company. (See Davis, Donald C., assignor.)
Gould Coupler Co. (See Davis, Donald C., assignor.)
Gould Coupler Company. (See Hartmann, Carl, assignor.)
Gould Coupler Company. (See Milne, G. G., and Creveling, assignors.)
Gould Coupler Company. (See Richards, Willard F., assignor.)
Gould, Dan, Sacramento, Calif. Wrecking-truck. No. 1,349,198; Aug. 10; v. 277; p. 259.
Gould, Edward R., New York, N. Y. Doll. No. 1,346,953; July 20; v. 276; p. 442.
Gould, Edwin J., Fruitvale, Calif. Shock-absorbing wheel. No. 1,343,774; June 15; v. 275; p. 541.
Gould, Edwin J., Oakland, Calif. Differential lock and reversing mechanism. No. 1,350,276; Aug. 17; v. 277; p. 542.
Gould, Frederick J., London, and E. S. Stamp, Birmingham, England. Shade-support for gas-burners and electric lights. No. 1,336,835; Apr. 13; v. 273; p. 274.

Digitized by Google

Alphabetical list of patentees—Continued.

Gould, Harry M., Portland, Me. Garment-hanger. No. 1,336,429; Apr. 13; v. 273; p. 197.
Gould Storage Battery Co. (See Chamberlain, Rufus N., assignor.)
Gould Storage Battery Company. (See Gould, William S., assignor.)
Gould Storage Battery Company. (See Haunz, Charles F., assignor.)
Gould Storage Battery Company. (See Hubbard, Albert S., assignor.)
Gould Storage Battery Company. (See Pipkin, Maurice E., assignor.)
Gould Storage Battery Company. (See Rabenalt Gustav H., assignor.)
Gould Storage Battery Co. (See Snyder, Almond H., assignor.)
Gould, William S., assignor to Gould Storage Battery Company, New York, N. Y. Storage battery. No. 1,363,645; Dec. 28; v. 281; p. 662.
Gould, William S., assignor to Gould Storage Battery Company, New York, N. Y. Storage battery. No. 1,363,646: Dec. 28; v. 281; p. 663.
Gouldbourn, Joseph. (See Jerram, A. E., and Gouldbourn.)
Goulding, Horatio C., *et al.* (See Johnson, A. L., and Alsten, assignors.)
Goulet, Delphine. (See Goulet, Omer C., assignor.)
Goulet, Omer C., assignor to D. Goulet, Fall River, Mass. Lever-chocking device. No. 1,329,079; Jan. 27; v. 270; p. 540.
Gourley, Joseph H., Milton, assignor of one-half to J. H. Davey, Quincy, Mass. Highway-signal. No. 1,356,276; Oct. 19; v. 279; p. 390.
Gove, Edward H., Biddeford, Me. Tank-siphon. No. 1,353,230; Sept. 21; v. 278; p. 891.
Gove, Emery T., Berkeley, Calif. Automobile accessory. No. 1,361,321; Dec. 7; v. 281; p. 68.
Gove, Henry H., assignor to Gove Motor Company, Biddeford, Me. Carbon shearing and compression device for internal-combustion engines. No. 1,349,757; Aug. 17; v. 277; p. 443.
Gove, Henry H., Biddeford, assignor of one-half to H. R. Whitehead, Saco, Me. Thread-tension device. No. 1,361,716; Dec. 7; v. 281; p. 148.
Gove, Henry H., Biddeford, assignor of one-half to H. R. Whitehead, Saco, Me. Loom-shuttle. No. 1,363,583; Dec. 28; v. 281; p. 651.
Gove Motor Company. (See Gove, Henry H., assignor.)
Government of the United States. (See Chase, A. H., and Boesch, assignors.)
Government of the United States. (See Cowles, Edwin, assignor.)
Government of the United States. (See Eaton, William E., assignor.)
Government of the United States. (See Mazuel, Edmond G. F. R., assignor.)
Government of the United States. (See Miller, Justin C., assignor.)
Government of the United States. (See Miller, Justin M., assignor.)
Government of the United States. (See Rockwell, Lea W., assignor.)
Government of the United States. (See Wentworth, Harry A., assignor.)
Gow, Alexander M., Duluth, Minn. Dump-car. No. 1,338,010; Apr. 27; v. 273; p. 641.
Gow, Alexander M., Duluth, Minn. Water-cooler. No. 1,359,695; Nov. 23; v. 280; p. 638.
Gow, Colin C., and D. F. Campbell, London, England. Control of power absorbed in electric furnaces. No. 1,327,548; Jan. 6; v. 270; p. 125.
Gow, John M., and F. S. Davis, Lansing, Mich. Meter-lubricator. No. 1,348,559; Aug. 3; v. 277; p. 83.
Gower, Francis W., H. J. Owen, and E. Cox, Birmingham, England. Insulated handle for aluminum saucepans. No. 1,328,510; Jan. 20; v. 270; p. 404.
Goyette, J. O., *et al.* (See Genin, John B., assignor.)
Goyette, Leo J. (See Stenger, Francis J., assignor.)
Goza, Walter D., Los Angeles, Calif. Auto bumper and wheel lock. No. 1,362,416; Dec. 14; v. 281; p. 332.
Graaff, Clemens, Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Chemical fire-extinguisher. No. 1,332,720; Mar. 2; v. 272; p. 104.
Graaff, Clemens, Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Cartridge for chemical fire-extinguishers. No. 1,338,828; May 4; v. 274; p. 33.
Graamans, Christiaan A. R., assignor to Syndicaat Graamans Patent, Rotterdam, Netherlands. Galvanic cell. No. 1,340,222; May 18; v. 274; p. 428.
Grabau, Hans E., Long Island City, assignor to A. C. Schwartz, New York, N. Y. Vehicle-tire. No. 1,350,995; Aug. 24; v. 277; p. 728.
Grabau, Hans E., Long Island City, and A. C. Schwartz, New York, N. Y.; said Grabau assignor to said Schwartz. Tire-casing. No. 1,347,847; July 27; v. 276; p. 675.
Grabau, Hans E., and A. C. Schwartz, New York, N. Y., said Grabau assignor to said Schwartz. Tire-casing fabric and making same. No. 1,347,848; July 27; v. 276; p. 676.
Grabe, Georg, Nikolassee, near Berlin, Germany, assignor to Siemens & Halske, A. G., Berlin, Germany. Telephone system. No. 1,343,714; June 15; v. 275; p. 529.
Graber, William, Brooklyn, N. Y. Skirt. No. 1,333,410; Mar. 9; v. 272; p. 285.
Grablec, Louis, Muskegon, Mich. Collar-support. No. 1,342,106; June 1; v. 275; p. 97.
Grabowski, Anton F., assignor to The Allbright-Nell Company, Chicago, Ill. Sausage stuffing and linking machine. No. 1,363,505; Dec. 28; v. 281; p. 636.
Grabowski, John, Baltimore, Md. Horseshoe. No. 1,340,764; May 18; v. 274; p. 530.
Grabowski, John, Chicago, Ill. Corn-remover. No. 1,361,982; Dec. 14; v. 281; p. 248.
Grace, Edward S., New York, N. Y. Automobile-theft-indicating device. No. 1,342,044; June 1; v. 275; p. 85.
Grace, Edwin B., Memphis, Tenn. Interchangeable sprocket. No. 1,360,930; Nov. 30; v. 280; p. 948.
Grace, John F., Kearney, N. J., assignor to Worthington Pump and Machinery Corporation. Condenser system and vacuum-pump. No. 1,340,165; May 18; v. 274; p. 418.
Grace, Walter, assignor to Fountain Toothbrushes Limited, Auckland, New Zealand. Fountain-brush. No. 1,340,043; May 11; v. 274; p. 337.
Grace, Walter, assignor to Fountain Tooth-Brushes Limited, Auckland, New Zealand. Fountain-brush. No. 1,362,937; Dec. 21; v. 281; p. 485.
Gracey, A. L. (See Dudley, Thomas J., assignor.)
Gracey, James G., assignor of one-fourth to Emanuel Longmeyer, St. Louis, Mo. Wind-motor. No. 1,352,952; Sept. 14; v. 278; p. 277.
Grady, Ronan C., East Boston, Mass. Fog-light. No. 1,362,693; Dec. 21; v. 281; p. 438.
Grady, Patrick S. (See Casper, Frank, assignor.)
Grady, Thomas H., assignor to Cruver M'f'g Co., Chicago, Ill. Badge or button. No. 1,334,239; Mar. 16; v. 272; p. 501.
Graef, Forrest J. (See Skerl, F., and Graef.)
Graeter, George C., St. Louis, Mo. Stovepipe holder and ventilator. No. 1,355,223; Oct. 12; v. 279; p. 206.
Graeves-Klusman Tool Company, The. (See Jackson, George E., assignor.)
Graf, Frederick, New York, N. Y. Ventilator. No. 1,332,493; Mar. 2; v. 272; p. 61.
Graf, Frederick C., Brooklyn, and M. J. Zwosta, Evergreen, N. Y. Device for dropping bombs or other devices. No. 1,335,283; Mar. 30; v. 272; p. 805.
Graf, Fredric O., San Francisco, Calif. Knockdown cabinet for automobiles. No. 1,337,449; Apr. 20; v. 273; p. 465.
Graf, Fritz, Sr., Collingdale, Pa. Fiber-dressing machine. No. 1,351,749; Sept. 7; v. 278; p. 7.
Graff, Louis J., Pittsburgh, Pa. Furring construction for steel ceilings. No. 1,334,607; Mar. 23; v. 272; p. 617.
Graff, Louis J., Pittsburgh, Pa. Wall-furring strip for steel ceilings. No. 1,345,002; June 29; v. 275; p. 909.
Graffenberger, Friedrich, Milwaukee, Wis. Sprinkling-spoon. No. 1,347,902; July 27; v. 276; p. 687.
Graffunder, Saruha A., assignor to Home Gas Appliance Co., Tacoma, Wash. Oil-burner. No. 1,341,797; June 1; v. 275; p. 27.
Graft, Russell R., Norfolk, Nebr. Demountable rim and lock therefor for wheels. No. 1,338,072; Apr. 27; v. 273; p. 653.
Graham, Andrew W., Buffalo, N. Y. Match-packet. No. 1,351,241; Aug. 31; v. 277; p. 839.
Graham, Andrew W., Buffalo, N. Y. Combination package wrapper or label and match-packet. No. 1,351,242; Aug. 31; v. 277; p. 839.
Graham, Bert O., Cordova, Alaska. Fly-swatter. No. 1,344,943; June 29; v. 275; p. 899.
Graham Brothers. (See Dunham, George W., assignor.)
Graham, Charles L., Saginaw, Mich. Air-supply device for internal-combustion engines. No. 1,361,575; Dec. 7; v. 281; p. 121.
Graham, Charles W., Huntington, assignor to American Can Company, New York, N. Y. Can-end-lining machine. No. 1,343,913; June 22; v. 275; p. 634.
Graham, Charles W., Allendale, N. J., assignor to American Can Company, New York, N. Y. Manufacturing gasket-lined can ends and apparatus therefor. No 1,343,914; June 22; v. 275; p. 634.
Graham, Charles W., Crestwood, assignor to American Can Company, New York, N. Y. Can-end-lining machine. No. 1,348,560; Aug. 3; v. 277; p. 83.
Graham, Charles W., Crestwood, assignor to American Can Company, New York, N. Y. Hermetic sealing device. No. 1,351,162; Aug. 31; v. 277; p. 822.
Graham, Charles W., Crestwood, assignor to American Can Company, New York, N. Y. Can-end-lining machine. No. 1,351,163; Aug. 31; v. 277; p. 823.
Graham, Charles W., Crestwood, assignor to American Can Company, New York, N. Y. Cutting and handling can-end liners. No. 1,355,040; Oct. 5; v. 279; p. 117.
Graham, Clarence R., Newark, Calif. Combined gas and coal range. No. 1,350,723; Aug. 24; v. 277; p. 676.
Graham, David F., assignor to The Graham Roller Bearing Company, Coudersport, Pa. Socket-wrench. No. 1,328,428; Jan. 20; v. 270; p. 388.

Digitized by Google

Graham, David M., Bordulac, N. D. Apparatus for stacking and storing grain. No. 1,332,494; Mar. 2; v. 272; p. 61.

Graham, David M., Bordulac, N. D. Treating wheat and like grain. No. 1,332,495; Mar. 2; v. 272; p. 61.

Graham, Dellwin S., Davenport, Iowa. Optical attachment for player-pianos. No. 1,355,469; Oct. 12; v. 279; p. 254.

Graham, Edmund, and G. Bowman, Belfast, Ireland. Liquid jacking apparatus for motor-vehicles. No. 1,327,670; Jan. 13; v. 270; p. 209.

Graham, Edward, Saginaw, Mich. Land-torpedo. No. 1,350,220; Aug. 17; v. 277; p. 532.

Graham, Edward A., Brockley, London, England. Electrical signaling or indicating apparatus especially applicable for signaling orders and numerical data. No. 1,343,362; June 15; v. 275; p. 459.

Graham, Edward A., Brockley, London, England. Electrical transmitting and indicating apparatus. No. 1,354,099; Sept. 28; v. 278; p. 609.

Graham, Frank B., Kansas City, Mo. Dilator. No. 1,328,624; Jan. 20; v. 270; p. 425.

Graham, Frederick W. (See Workman, J. M., and Graham.)

Graham, George F., and W. J. Bunyan, assignors to The Bunyan Manufacturing Company, Cleveland, Ohio. Crank-handle. No. 1,330,260; Feb. 10; v. 271; p. 202.

Graham, Harold M. (See Ehrhart, R. N., and Graham.)

Graham, Henry W. B., assignor to The Arnold-Creager Company, New London, Ohio. Apparatus for making bricks. No. 1,341,798; June 1; v. 275; p. 37.

Graham, Henry W. B., assignor to The Arnold-Creager Company, New London, Ohio. Bumping mechanism. No. 1,350,604. Aug. 24; v. 277; p. 654.

Graham, James H., assignor, by mesne assignments, to The Torrington Company, Torrington, Conn. Wire-spoke connection. No. 1,333,019; Mar. 9; v. 272; p. 212.

Graham, James H., assignor, by mesne assignments, to The Torrington Company, Torrington, Conn. Making spoke-nipples. No. 1,340,166; May 18; v. 274; p. 418.

Graham, John G., Granite City, Ill. Sheet-metal-doubling machine. (Reissue.) No. 14,907; July 6; v. 276; p. 154.

Graham, Joseph B., Evansville, Ind., and R. La France, assignors to The Owens Bottle Machine Company, Toledo, Ohio. Apparatus for conveying molten glass. No. 1,350,448; Aug. 24; v. 277; p. 623.

Graham, Joseph B., Evansville, Ind., assignor to The Owens Bottle Machine Company, Toledo, Ohio. Means for and method of flowing glass. No. 1,353,907; Sept. 28; v. 278; p. 569.

Graham, Joseph B., Evansville, Ind., assignor to The Owen Bottle Machine Company, Toledo, Ohio. Apparatus for gathering molten glass. No. 1,353,953; Sept. 28; v. 278; p. 578.

Graham, Joshua S., Detroit, Mich. Hatpin-guard. No. 1,328,954; Jan. 27; v. 270; p. 517.

Graham, Louis O., Knox City, Mo., assignor of forty one-hundredths to F. J. Hurley, New Haven, Conn. Beet-harvester. No. 1,357,163; Oct. 26; v. 279; p. 672.

Graham, Oliver B., Cleveland, Ohio, assignor, by mesne assignments, to Auto-Ordnance Corporation, New York, N. Y. Breech-closure. No. 1,340,891; May 25; v. 274; p. 625.

Graham, Oliver B., Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y. Gun lubrication. No. 1,351,164; Aug. 31; v. 277; p. 823.

Graham Roller Bearing Company, The. (See Graham, David F., assignor.)

Graham, Stanley, Los Angeles, Calif. Camera-shutter exposure-lock. No. 1,355,328; Oct. 12; v. 279; p. 227.

Graham, Thaddeus S., Los Angeles, Calif. Duplex needle-plate for sole-stitching machines. No. 1,342,903; June 8; v. 275; p. 306.

Graham, Thomas W., Grover, Colo. Friction power-transmission mechanism. No. 1,330,526; Feb. 10; v. 271; p. 252.

Graham, Wallace A., Gore, New Zealand. Friction braking means for cinematograph-film spools. No. 1,340,710; May 18; v. 274; p. 520.

Graham, William B., Waterloo, Iowa. Feeding device for poultry. No. 1,363,775; Dec. 28; v. 281; p. 688.

Graham, William J. (See Crompton, L. W., and Graham.)

Graham, William S., assignor, by mesne assignments, to International Harvester Company, Canton, Ill. Listerplow. No. 1,359,055; Nov. 16; v. 280; p. 468.

Grain Soaps Corporation. (See Aisen, Maurice, assignor.)

Graiver, Charles, New York, N. Y. String for musical instruments. No. 1,339,953; May 11; v. 274; p. 320.

Gramer, Walter W., Marinette, Wis. Testing apparatus. No. 1,349,831; Aug. 17; v. 277; p. 456.

Grammich, Frank, Brooklyn, N. Y. Holder for disk records. No. 1,336,293; Apr. 6; v. 273; p. 111.

Grammich, Frank, Brooklyn, N. Y. Holder for disk records. No. 1,339,194; May 4; v. 274; p. 101.

Grammich, Frank, Brooklyn, N. Y. Shelf. No. 1,343,818; June 15; v. 275; p. 549.

Gran, Albert, assignor to Designers Instrument Company, Chicago, Ill. Fountain ruling-pens. No. 1,355,961; Oct. 19; v. 279; p. 390.

Granade, Frank H., *et al.* (See Stimpson, Gordon G., assignor.)

Granat, Elie, assignor of one-half to Benard-Barbier & Turenne, Paris, France. Searchlight apparatus. No. 1,355,662; Oct. 12; v. 279; p. 291.

Grand, Auguste A., Paris, France. Mounting or holder for reels of gummed paper. No. 1,332,036; Feb. 24; v. 271; p. 625.

Grand Rapids Brass Co. (See Tower, Daniel W., assignor.)

Grand Rapids Grinding Machine Company. (See De Koning, Jacob, assignor.)

Grand Rapids Show Case Co. (See Vanderveld, Anthony, assignor.)

Grand Rapids Trust Company, trustee. (See Kenyon, Bertrand F., assignor.)

Grand Rapids Trust Company, trustee. (See Verner, James F., assignor.)

Grange, Arthur H., Toulon, Ill. Heating device for the crank-cases of automobiles. No. 1,356,524; Oct. 26; v. 279; p. 548.

Granger, Frank B., assignor to Hall Borchert Dress Form Company, New York, N. Y. Dress-form. No. 1,340,950; May 25; v. 274; p. 636.

Granger, William S., Duluth, Minn. Gas-mixer. No. 1,329,324; Jan. 27; v. 270; p. 585.

Granstedt, Karl E. A., assignor to Galco Maskinfabriks Aktiebolag, Stockholm, Sweden. Belt-driving. No. 1,352,511; Sept. 14; v. 278; p. 189.

Grant, Alexander W. (See Beaudet, Edmond P., assignor.)

Grant, Alexander W., Montreal, Quebec, Canada. Mop. No. 1,339,925; May 11; v. 274; p. 315.

Grant, Charles H., New York, N. Y. Apparatus for cutting helical propellers. No. 1,333,912; Mar. 16; v. 272; p. 440.

Grant, Charles W. (See Braden, R. D., and Grant.)

Grant, Denison W., assignor to Foco Oil Company, Franklin, Pa. Cooler. No. 1,336,742; Apr. 13; v. 273; p. 256.

Grant, Frank A., Cortland, N. Y. Railway-gate-control mechanism. No. 1,353,038; Sept. 14; v. 278; p. 294.

Grant, Gideon, *et al.* (See Weston, A. H., and Peters, assignors.)

Grant, Harry L., and G. Haddow, Tamaqua, assignors to Atlas Powder Company, Philadelphia, Pa. Electric detonator. No. 1,354,100; Sept. 28; v. 278; p. 609.

Grant, James W., Bridgeport, Conn., assignor to F. J. Klein, Long Island City, N. Y. Paper-fastener. No. 1,337,598; Apr. 20; v. 273; p. 493.

Grant, James W., Bridgeport, Conn., assignor to F. J. Klein, Long Island City, N. Y. Paper-fastener. (Reissue.) No. 14,974; Nov. 2; v. 280; p. 140.

Grant, John C., Barnes, London, England. Typewriting-machine for coding and decoding messages. No. 1,356,277; Oct. 19; v. 279; p. 453.

Grant, John C., Barnes, England. Liquid-raising apparatus. No. 1,358,632; Nov. 9; v. 280; p. 340.

Grant, John D. (See Duhem, R. A., and Grant.)

Grant, John J., New York, N. Y. Ball-grinding machine. No. 1,357,044; Oct. 26; v. 279; p. 649.

Grant, John J., New York, N. Y. Ball-grinding machine. No. 1,357,045; Oct. 26; v. 279; p. 650.

Grant, Josceline C. H., Chania Bridge, British East Africa. Spring-fitting for vehicle-axles. No. 1,353,470; Sept. 21; v. 278; p. 438.

Grant Motor Car Corporation. (See Howe, James M., assignor.)

Grant, Thomas H., Englewood, N. J. Golf-club. No. 1,343,998; June 22; v. 275; p. 650.

Grant, W. S., *et al.* (See Johnson, Albert S., assignor.)

Grant, Willburn C., Abilene, Tex. Ice-machine. No. 1,344,502; June 22; v. 275; p. 749.

Grant, William W., Brooklyn, N. Y. Carbureter. No. 1,327,233; Jan. 6; v. 270; p. 66.

Grant, William W., Brooklyn, N. Y. Fuel-mixture vaporizing and heating device. No. 1,359,983; Nov. 23; v. 280; p. 695.

Granville, Bernard, New York, N. Y. Armored tire. No. 1,338,011; Apr. 27; v. 273; p. 641.

Granville, R. Gordon. (See Jarman, Alfred R., assignor.)

Granz, Joseph, Duluth, Minn. Motion-picture machine. No. 1,349,420; Aug. 10; v. 277; p. 303.

Granz, Joseph, Duluth, Minn. Motion-picture machine. No. 1,349,421; Aug. 10; v. 277; p. 304.

Granz, Joseph, Duluth, Minn. Motion-picture machine. No. 1,349,422; Aug. 10; v. 277; p. 304.

Granzow, Carl A. and H. M., Dayton, Ohio. Power-transmission mechanism. No. 1,338,767; May 4; v. 274; p. 22.

Granzow, Henry M. (See Granzow, Carl A. and H. M.)

Graphoscope Company, The. (See Jenkins, Charles F., assignor.)

Graske, August, Omaha, Nebr. Grip for bow-ties. No. 1,343,623; June 15; v. 275; p. 510.

Grass, Alfred, New York, N. Y. Master-sheet for lithographic-printing surfaces and making same. No. 1,333,544; Mar. 9; v. 272; p. 511.

Grass, Jacob, Fulham, London, England. Lithographic plate for offset and direct printing. (Reissue.) No. 14,802; Feb. 10; v. 271; p. 298.

Grass, William, Weehawken, N. J. Printing-press. No. 1,358,843; Nov. 16; v. 280; p. 427.

Digitized by Google

Alphabetical list of patentees—Continued.

Grasselli Chemical Company, The. (See Taylor, Edward A., assignor.)
Grasser, Joseph, Netstal, Switzerland. Apparatus for steaming fabrics. No. 1,340,482; May 18; v. 274; p. 477.
Grassi, Peter. (See Williams, Richard J., assignor.)
Grasty, George I., *et al.* (See Brown, Leonard L., assignor.)
Gratieux, Fernand. (See Hanriot, R., and Gratieux.)
Gratkowski, John. (See Namolick, Anthony, assignor.)
Graue, Louis J., Brooklyn, N. Y. Pickling material. No. 1,331,866; Feb. 24; v. 271; p. 594.
Grauer, Joseph, Brooklyn, N. Y. Die-holder. No. 1,328,279; Jan. 20; v. 276; p. 360.
Grauer, Max J., *et al.* (See Brown, Albert, assignor.)
Gravatt, Charles M., Port Royal, Va. Marking device. No. 1,353,742; Sept. 21; v. 278; p. 493.
Gravell, James H., Brooklyn, N. Y., assignor to Thomson Spot Welder Company, Boston, Mass. Securing plates. No. 1,330,800; Feb. 17; v. 271; p. 371.
Gravell, James H., Brooklyn, N. Y., assignor to Thomson Spot Welder Company, Boston, Mass. Chemical welding. No. 1,355,224; Oct. 12; v. 279; p. 207.
Gravell, James H., Elkins Park, Pa., assignor to Thomson Electric Welding Company, Boston, Mass. Resistance welding. No. 1,342,957; June 8; v. 275; p. 816.
Gravell, James H., Elkins Park, Pa., assignor to Thomson Spot Welder Company, Boston, Mass. Slug-welding. No. 1,3454,293; Sept. 28; v. 278; p. 648.
Gravely, Julian S., assignor to Winchester Repeating Arms Co., New Haven, Conn. Chinese-wood-oil adhesive paste. No. 1,331,192; Feb. 17; v. 271; p. 446.
Graves, Eugene S., Providence, R. I. Dyeing or similarly treating textiles. No. 1,348,167; Aug. 3; v. 277; p. 7.
Graves, George W., assignor to The Graves Supply Company, Cincinnati, Ohio. Stove. No. 1,353,743; Sept. 21; v. 278; p. 493.
Graves, Henry W., assignor of one-fifth to A. Scheible, Chicago, Ill. Roof-truss. No. 1,360,931; Nov. 30; v. 280; p. 948.
Graves, Inez, Seattle, Wash. Ironing-board. No. 1,352,259; Sept. 7; v. 278; p. 105.
Graves, John, assignor to French Battery & Carbon Co., Madison, Wis. Mixing-machine. No. 1,351,243; Aug. 31; v. 277; p. 839.
Graves, Norman L., Wilmington, Del. Valve-lifter. No. 1,356,978; Oct. 26; v. 279; p. 637.
Graves, Norman L., Wilmington, Del. Rock-arm lifter. No. 1,356,979; Oct. 26; v. 279; p. 637.
Graves, Robert E., Houston, Tex. Dental handpiece. No. 1,349,832; Aug. 17; v. 277; p. 456.
Graves, Robert W., Elizabeth, N. J., and S. M. Holt, Washington, D. C., said Holt assignor to said Graves. Saw. No. 1,352,512; Sept. 14; v. 278; p. 189.
Graves, Roy R., Bethesda, Md. Pedigree-record and making the same. No. 1,364,049; Dec. 28; v. 281; p. 741.
Graves Supply Company, The. (See Graves, George W., assignor.)
Graves, Velma C., Yakima, Wash. Plate-lifting device. No. 1,337,450; Apr. 20; v. 273; p. 465.
Gravity Carburetor Company, The. (See Costa, Anthony, assignor.)
Grawcour, Henry I. (See Luke, Frederick, assignor.)
Gray, Annie E., Philadelphia, Pa. Coat. (Reissue of Design.) No. 14,960; Oct. 19; v. 279; p. 497.
Gray, B. L. (See Holmes, Frank A. B., assignor.)
Gray, Carl C., Minneapolis, Minn. Chain-tightener. No. 1,348,168; Aug. 3; v. 277; p. 7.
Gray, Charles F., Sierra Madre, Calif., assignor to The Singer Manufacturing Company. Sewing-machine. No. 1,346,884; July 20; v. 276; p. 428.
Gray, Chester E. (See Rew, William O., assignor.)
Gray, Clarence, Cleveland, Ohio. Tap for cupolas. No. 1,360,520; Nov. 30; v. 280; p. 869.
Gray, Daniel A., Des Moines, Iowa. Farm-gate. No. 1,350,967; Aug. 24; v. 277; p. 722.
Gray, David E., Highland Park, Ill. Mechanism for winding films. No. 1,327,034; Jan. 6; v. 270; p. 29.
Gray, David E., assignor to The Corning Glass Works, Corning, N. Y. Apparatus for retaining and delivering blow-irons. No. 1,357,231; Nov. 2; v. 280; p. 6.
Gray, David E., assignor to Railway Utility Company, Chicago, Ill. Electric heating system. No. 1,363,776; Dec. 28; v. 281; p. 688.
Gray & Davis. (See Holton, Jesse A., assignor.)
Gray & Davis. (See Moses, William B., assignor.)
Gray & Davis Inc. (See Moses, William B., assignor.)
Gray, Edward A., and L. C. Norman, Stockton, Calif. Animated advertising device for moving vehicles. No. 1,359,984; Nov. 23; v. 280; p. 695.
Gray, Edward E., Piano, Ill., assignor, by mesne assignments, to Ivers-Lee Company, Newark, N. J. Package. No. 1,333,411; Mar. 9; v. 272; p. 285.
Gray, Edward E., Piano, Ill., assignor, by mesne assignments, to American Seedtape Company, Newark, N. J. Machine for forming seed-tape. No. 1,364,050; Dec. 28; v. 281; p. 741.
Gray, Ellsworth, Goose Creek, Tex. Spear. No. 1,337,902; Apr. 20; v. 273; p. 551.
Gray, George F., Washington, D. C. Knockdown mast. No. 1,342,847; June 8; v. 275; p. 295.
Gray, George F., Pittsburgh, Pa. Fair-lead. No. 1,346,539; July 13; v. 276; p. 301.
Gray, George F., Pittsburgh, Pa. Signaling apparatus. No. 1,346,540; July 13; v. 276; p. 301.
Gray, Halla F., Denver, Colo. Device or machine for cleaning decorated walls. No. 1,334,240; Mar. 16; v. 272; p. 502.
Gray, Harold L., assignor to Crabbs Reynolds Taylor Company, Crawfordsville, Ind. Seed-separator electrical drier. No. 1,362,568; Dec. 14; v. 281; p. 362.
Gray, Harry A., assignor of one-half to G. R. Wright, Milwaukee, Wis. Card-holder. No. 1,326,926; Jan. 6; v. 270; p. 8.
Gray-Heath Company. (See Furthmann, William N., assignor.)
Gray, Hiram R., Chicago, Ill. Jar-holder. No. 1,331,758; Feb. 24; v. 271; p. 572.
Gray Iron Foundry Company. (See Hudson, William H., assignor.)
Gray, James A., assignor to American Can Company, San Francisco, Calif. Mechanism for seaming ends to can-bodies. No. 1,327,994; Jan. 13; v. 270; p. 269.
Gray, James A., assignor to American Can Company, San Francisco, Calif. Can-end-feed mechanism. No. 1,349,833; Aug. 17; v. 277; p. 457.
Gray, James A., assignor to American Can Company, San Francisco, Calif. Multiple-disk-cutting apparatus. No. 1,351,951; Sept. 7; v. 278; p. 48.
Gray, James A., assignor to American Can Company, San Francisco, Calif. Apparatus for flanging can-bodies. No. 1,356,980; Oct. 26; v. 279; p. 637.
Gray, James C. (See Maffett, W. L., and Gray.)
Gray, James H., New York, N. Y. Smelting tin and other ores. No. 1,340,951; May 25; v. 274; p. 636.
Gray, James W., Tacoma, Wash. Woodworking-machine. No. 1,358,148; Nov. 9; v. 280; p. 243.
Gray, John L., St. Louis, Mo. Oil-cracking still. No. 1,331,909; Feb. 24; v. 271; p. 601.
Gray, Joseph P., Los Angeles, Calif. Side-curtain holder. No. 1,345,086; June 29; v. 275; p. 925.
Gray, Leonard, *et al.* (See Jacobs, William F., assignor.)
Gray, Paul R., assignor of one-third to A. E. Wilber, Springfield, Mass. Car-loading apparatus. No. 1,334,751; Mar. 23; v. 272; p. 645.
Gray, Percy W. (See Taylor, A. and Gray.)
Gray Pneumatic Gear Shift Company. (See Bateman, William F., assignor.)
Gray, Raymond K., assignor to Graynie Corporation, Chicago, Ill. Automobile-tire lock. No. 1,348,169; Aug. 3; v. 277; p. 7.
Gray, Robert L., Newark, N. J., assignor to Rose Lithographic Corporation, New York, N. Y. Box or carton for displaying merchandise. No. 1,334,982; Mar. 23; v. 272; p. 681.
Gray, Samuel, Oregon City, Oreg. Washing-machine. No. 1,345,003; June 29; v. 275; p. 909.
Gray Telephone Pay Station Company, The, *et al.* (See Long, George A., assignor.)
Gray, Thomas T., Elizabeth, N. J. Treating petroleum hydrocarbons. No. 1,340,889; May 25; v. 274; p. 625.
Gray, William A., New Providence, N. J. Window-envelop. No. 1,358,436; Nov. 9; v. 280; p. 302.
Graybill, Bird M., Chicago, Ill., assignor to S. W. Cook, Brookline, Mass. Apparatus for indicating fuel consumption. No. 1,328,920; Jan. 27; v. 270; p. 511.
Graydon, Alexander, *et al.*, trustees. (See Brown, Lloyd, assignor.)
Graydon, Thomas H., Cincinnati, Ohio, assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe-sole-cutting machine. (Reissue.) No. 14,876; June 8; v. 275; p. 362.
Graynie Corporation. (See Gray, Raymond K., assignor.)
Grayson, Iona, Tulsa, Okla. Fish-scaler. No. 1,328,148; Jan. 13; v. 270; p. 299.
Graziano, Joseph, Newburgh, N. Y. Temperature-regulator. No. 1,352,864; Sept. 7; v. 278; p. 125.
Grazier, Doré W., Johnstown, Pa. Automobile-signal. No. 1,351,513; Aug. 31; v. 277; p. 893.
Great Lakes Dredge & Dock Company. (See Lutz, Theodore C., assignor.)
Great Lakes Dredge and Dock Company. (See Roemheld, Jules E., assignor.)
Great Northern Paper Company. (See Allen, C. H., and Trimbey, assignors.)
Great Northern Paper Company. (See Pope, Charles E., assignor.)
Great Northern Paper Company. (See Sutherland, Forrest A., assignor.)
Greb, William J., Easton, Pa. Float-valve. No. 1,355,663; Oct. 12; v. 279; p. 291.
Greble, Florence C., New York, N. Y. Mailing-frame. No. 1,347,269; July 20; v. 276; p. 504.
Greco, Vito B., assignor of one-half to W. F. Baum, Waterloo, Iowa. Heel for boots and shoes. No. 1,328,991; Jan. 27; v. 270; p. 524.
Gredell, Otto N. (See Wallace, H. C., and Gredell.)
Greeley, William B., administrator. (See Gamper, Otto.)
Green, Albert W. (See Durham, Clifton A., assignor.)
Green, Charles B. (See Maxfield, D. E., and Green.)
Green, Charles E., St. Augustine, Fla. Oil-burner. No. 1,347,458; July 20; v. 276; p. 541.

Digitized by Google

Green, Charles E., and J. H. Clough, Schenectady, N. Y., assignors to General Electric Company. Electrical discharge-tubes. No. 1,334,150; Mar. 16; v. 272; p. 486.
Green, Charles F., Defiance, Ohio. Fuel-feed system. No. 1,346,196; July 13; v. 276; p. 232.
Green, Charles F., Defiance, assignor to Industrial Research Corporation, Toledo, Ohio. Fuel-feeding system. No. 1,348,406; Aug. 3; v. 277; p. 55.
Green, Charles F., Defiance, assignor to Industrial Research Corporation, Toledo, Ohio. Fuel-feed system. No. 1,352,123; Sept. 7; v. 278; p. 79.
Green, Dallas F., Fort Wayne, Ind. Eyeglass-mounting. No. 1,334,490; Mar. 23; v. 272; p. 595.
Green, Daniel, Felt Shoe Company. (See Green, James A., assignor.)
Green Engineering Company. (See Livensparger, David A., assignor.)
Green Engineering Company. (See Poppenhusen, Herman A., assignor.)
Green Engineering Company. (See Strong, Arthur P., assignor.)
Green, Fred I., Toronto, Ontario, Canada. Lighting-fixture. No. 1,357,634; Nov. 2; v. 280; p. 82.
Green, Frederick M., and S. D. Heron, assignors to Siddeley-Deasy Motor Car Company Limited, Coventry, England. Lubrication of crank-shafts. No. 1,331,638; Feb. 24; v. 271; p. 550.
Green, Frederick M., and S. D. Heron, assignors to Siddeley-Deasy Motor Car Company Limited, Parkside, Coventry, England. Gearing for connecting coaxial shafts. No. 1,347,220; July 20; v. 276; p. 493.
Green, George, Toronto, Ontario, Canada. Lock for motor-car gear-shifting levers. No. 1,348,868; Aug. 10; v. 277; p. 194.
Green, George B., Miami, Ariz. Steam-superheater for locomotive-boilers. No. 1,356,354; Oct. 19; v. 279; p. 468.
Green, George L. (See Morley, H. J., and Green.)
Green, George W. A., O. Wans, and F. H. Livens, assignors to Ruston and Hornsby, Limited, Lincoln, England. Reversing mechanism for internal-combustion engines. No. 1,327,995; Jan. 13; v. 270; p. 270.
Green, H. G. (See White, Joseph J., Jr., assignor.)
Green, Harry E., St. John, New Brunswick, Canada. Support for pictures, plaques, and similar articles. No. 1,339,703; May 11; v. 274; p. 273.
Green, Harry J., Sebring, Ohio. Mantle-ring-forming machine. No. 1,345,845; July 6; v. 276; p. 101.
Green, Henry M., Kansas City, Mo. Sand-screen for pumps. No. 1,338,829; May 4; v. 274; p. 33.
Green, Herman H., Salt Lake City, Utah. Vehicle-tire rim. No. 1,345,670; July 6; v. 276; p. 67.
Green, Isaac, Manchester, N. H. Crochet-needle. No. 1,347,027; July 20; v. 276; p. 456.
Green, J. Birchard, assignor to Chicago Steel & Wire Company, Chicago, Ill. Reel. No. 1,361,250; Dec. 7; v. 281; p. 53.
Green, James A., Dolgeville, N. Y., assignor to Daniel Green Felt Shoe Company, Boston, Mass. Shoe and making same. No. 1,348,941; Aug. 10; v. 277; p. 209.
Green, James M., Chicago, Ill. Non-skid attachment for automobile-tires. No. 1,348,992; Aug. 10; v. 277; p. 219.
Green, John D., Ypsilanti, Mich. Annealing-oven. No. 1,360,932; Nov. 30; v. 280; p. 949.
Green, John R., and J. H. Fritz, Baxter Springs, Kans. Automobile-identification device. No. 1,342,627; June 8; v. 275; p. 250.
Green, Joseph A., Providence, R. I. Pressure-indicator. No. 1,338,436; Apr. 27; v. 273; p. 721.
Green, Joseph A., assignor to Federal Screw Corporation, Providence, R. I. Surface-gage. No. 1,361,848; Dec. 14; v. 281; p. 221.
Green, Lee B., Detroit, Mich., assignor to The Federal Machine Products Co., Cleveland, Ohio. Ignition-trouble finder. No. 1,352,662; Sept. 14; v. 278; p. 219.
Green, M. E., Manufacturing Company. (See Scott, John M., assignor.)
Green, Michael B., Memphis, Tenn. Compression-box for oil-presses. No. 1,347,455; July 20; v. 276; p. 540.
Green, Michael B., Memphis, Tenn. Compression-box for oil-presses. No. 1,347,456; July 20; v. 276; p. 540.
Green, Michael B., Memphis, Tenn. Oil-press. No. 1,348,869; Aug. 10; v. 277; p. 195.
Green, Michael B., Memphis, Tenn. Oil-press. No. 1,348,870; Aug. 10; v. 277; p. 195.
Green, Nathan F., East Haven, and J. Peterka, Shelton, Conn. Drinking-fountain. No. 1,346,122; July 13; v. 276; p. 219.
Green, Nettie, Cambridge, and S. Matison, Boston, Mass. Child's garment. No. 1,351,380; Aug. 31; v. 277; p. 868.
Green, Orren J., Afton, N. Y. Folding cot. No. 1,350,152; Aug. 17; v. 277; p. 518.
Green, Richard A., Chicago, Ill. Auxiliary air-inlet for gas-engines. No. 1,333,918; Mar. 16; v. 272; p. 440.
Green, Richard D., Seattle, Wash. Milk-can holder and protector. No. 1,346,451; July 13; v. 276; p. 283.
Green, Rina, Copenhagen, Denmark. Veil. No. 1,350,494; Aug. 24; v. 277; p. 632.
Green, Samuel G., U. S. Army. Electrically-controlled mechanism for firearms. No. 1,352,891; Sept. 14; v. 278; p. 265.
Green, Samuel G., U. S. Army. Attachment for preventing the feeding of ball-cartridges to guns. No. 1,354,825; Oct. 5; v. 279; p. 76.
Green, Samuel G., U. S. Army. Adjustable shoulder-rest. No. 1,357,232; Nov. 2; v. 280; p. 7.
Green, Thomas H. (See Clifford, W. E., and Green.)
Green, Thomas W., Trenton, N. J. Multistage centrifugal blower. No. 1,350,724; Aug. 24; v. 277; p. 677.
Green, Van Ness. (See Johnson, A. B., and Green.)
Green, Walter R., Chicago, Ill. Extra-tire carrier. No. 1,329,174; Jan. 27; v. 270; p. 558.
Green, Walter R., Chicago, Ill. Adjustable tire-carrier. No. 1,344,202; June 22; v. 275; p. 689.
Green, Walter R., Chicago, Ill. Adjustable tire-carrier. No. 1,344,944; June 29; v. 275; p. 899.
Green, Walter R., Chicago, Ill. Tire-carrier. No. 1,349,507; Aug. 10; v. 277; p. 321.
Green, Walter R., Chicago, Ill. Tire-carrier. No. 1,352,595; Sept. 14; v. 278; p. 206.
Green, Walter R., Chicago, Ill. Mud-guard brace. No. 1,352,596; Sept. 14; v. 278; p. 206.
Green, William R., Los Angeles, Calif. Safety-stirrup. No. 1,352,406; Sept. 7; v. 278; p. 182.
Greenabaum, Alexander L. (See Priest, H. M., Ford, Greenabaum, and Richardson.)
Greenawalt, Harry F., Philadelphia, Pa. Time-controlled heat-regulator for furnaces. No. 1,331,639; Feb. 24; v. 271; p. 550.
Greenawalt, John E., Denver, Colo. Apparatus for roasting or sintering ores. No. 1,348,407; Aug. 3; v. 277; p. 55.
Greenawalt, John E., Denver, Colo. Treating ores. No. 1,348,408; Aug. 3; v. 277; p. 55.
Greenawalt, William E., Denver, Colo. Metallurgical process. No. 1,328,666; Jan. 20; v. 270; p. 433.
Greenawalt, William E., Denver, Colo. Electrolytic process. No. 1,340,826; May 18; v. 274; p. 542
Greenawalt, William E., Denver, Colo. Metallurgical process. No. 1,342,804; June 8; v. 275; p. 287.
Greenawalt, William E., Denver, Colo. Metallurgical process. No. 1,344,030; June 22; v. 275; p. 656.
Greenawalt, William E., Denver, Colo. Treating liquids with gases. No. 1,344,031; June 22; v. 275; p. 656.
Greenawalt, William E., Denver, Colo. Metallurgical process. No. 1,344,127; June 22; v. 275; p. 674.
Greenawalt, William E., Denver, Colo. Extracting metals from their ores. No. 1,345,846; July 6; v. 276; p. 102.
Greenawalt, William E., Denver, Colo. Electrolytic apparatus. No. 1,347,088; July 20; v. 276; p. 468.
Greenawalt, William E., Denver, Colo. Apparatus for treating liquids with gases. No. 1,347,089; July 20; v. 276; p. 469.
Greenawalt, William E., Denver, Colo. Flotation apparatus. No. 1,350,605; Aug. 24; v. 277; p. 654.
Greenawalt, William E., Denver, Colo. Electrolytic apparatus. No. 1,353,995; Sept. 28; v. 278; p. 587.
Greenawalt, William E., Denver, Colo. Metallurgical process. No. 1,357,495; Nov. 2; v. 280; p. 55
Greenberg, Hyman L., Portland, Me. Necktie. No. 1,359,361; Nov. 16; v. 280; p. 527.
Greenberg, Jacob, *et al.* (See Mallove, Morris, assignor.)
Greenberg, Leon S., Newark, N. J. Molding-flask. No. 1,331,193; Feb. 17; v. 271; p. 446.
Greenberg, Louis, Indianapolis, Ind. Washing-machine. No. 1,330,801; Feb. 17; v. 271; p. 372.
Greenberg, Tobias. (See Kamelgar, Solomon, assignor.)
Greenbowe, James W., Weehawken, N. J. Self-adjusting hairpin. No. 1,330,802; Feb. 17; v. 271; p. 372.
Greene, Arthur W., Richmond, Va. Automatic regulator. No. 1,331,867; Feb. 24; v. 271; p. 594.
Greene, Chester W., Lynn, Mass., assignor to F. G. Gale, Waterville, Canada. Stand or support. No. 1,338,437; Apr. 27; v. 273; p. 721.
Greene, Edwin D., assignor to Arkell Safety Bag Company, New York, N. Y. Machine for making stretchable crinkled paper. No. 1,348,638; Aug. 3; v. 277; p. 99.
Greene, J. A. (See Willis, Joseph H., assignor.)
Greene, John A., Long Beach, Calif. Heater and ventilator. No. 1,354,479; Oct. 5; v. 279; p. 6.
Greene, John A., Long Beach, Calif. Heater and ventilator. No. 1,359,888; Nov. 23; v. 280; p. 676.
Greene, John S., Rochester, N. Y., assignor to Commercial Camera Company, Providence, R. I. Photographic-print-handling apparatus. No. 1,361,251; Dec. 7; v. 281; p. 53.
Greene, Lemuel A., Greenville, S. C. Soil breaking and pulverizing machine. No. 1,333,543; Mar. 9; v. 272; p. 311.
Greene, Lemuel A., Greenville, S. C. Motor-driven agricultural machine. No. 1,343,866; June 15; v. 275; p. 560.
Greene, Morgan A., Rupert, Idaho. Beet-topper. No. 1,335,962; Apr. 6; v. 273; p. 49.
Greene, Morgan A., Rupert, Idaho. Resilient tire. No. 1,354,392; Sept. 28; v. 278; p. 668.
Greene, Richard T., South Pasadena, Calif. Brush-handle. No. 1,327,597; Jan. 6; v. 270; p. 134.

Digitized by Google

Greene, Robert L., South Bend, Ind. Dispensing system. No. 1,359,696; Nov. 23; v. 280; p. 638.
Greene, Samuel J., assignor, by mesne assignments, to The Payne Valve Corporation, Roanoke, Va. Tire-valve. No. 1,334,996; Mar. 30; v. 272; p. 752.
Greenewald, Eugene L. (See Anders, Charles F. P., assignor.)
Greenewalt, Mary H., Philadelphia, Pa. Illuminating means. No. 1,345,168; June 29; v. 275; p. 942.
Greenewalt, Mary H., Philadelphia, Pa. Rheostat. No. 1,357,773; Nov. 2; v. 280; p. 109.
Greenfield, Benjamin, Bartlesville, Okla. Boiler-furnace. No. 1,338,438; Apr. 27; v. 273; p. 722.
Greenfield, Edwin T., Yonkers, N. Y. Parachute. No. 1,331,705; Feb. 24; v. 271; p. 562.
Greenfield, Edwin T., deceased, Yonkers, N. Y.; M. E. Greenfield, administratrix. Pipe and means for connecting same. No. 1,344,032; June 22; v. 275; p. 656.
Greenfield, Leon, New York, N. Y. Anatomical bridge-articulator. No. 1,353,039; Sept. 14; v. 278; p. 394.
Greenfield, Mary E., administratrix. (See Greenfield, Edwin T., assignor.)
Greenfield Tap and Die Corporation. (See Bysbe, Ernest T., assignor.)
Greenfield Tap and Die Corporation. (See Wells, Frank O., assignor.)
Greening, Eldridge, *et al.* (See Tullis, John T., assignor.)
Greenison, Nelson J., New York, N. Y. Shoe-shining stand. No. 1,328,667; Jan. 20; v. 270; p. 433.
Greenlaw, Edward R., *et al.* (See Gibson, Walter I., assignor.)
Greenleaf, George E., Plainfield, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Lubricating system for lathe-headstocks. No. 1,342,904; June 8; v. 275; p. 307.
Greenleaf, George E., Plainfield, N. J., assignor to Niles Bement-Pond Company, New York, N. Y. Headstock bearing for lathes. No. 1,345,671; July 6; v. 276 p. 67.
Greenleaf, George E., Plainfield, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Lubricating system for planers. No. 1,350,309; Aug. 24; v. 277; p. 595.
Greenleaf, George S., Chicago, Ill. Bed-bottom structure. No. 1,340,540; May 18; v. 274; p. 488.
Greenleaf, Robert P., Cleveland, Ohio, assignor to F. Billings. Loading-machine. No. 1,361,849; Dec. 14; v. 281; p. 221.
Greenleaf, Rupert L., Cambridge, Mass. Heel-scouring machine. No. 1,351,290; Aug. 31; v. 277; p. 849.
Greenleaf, William H., Hartford, Conn., assignor to Connecticut Electric Clock Co., Inc., New York, N. Y. Locking device. No. 1,338,221; Apr. 27; v. 273; p. 681.
Greenley, Joseph S., *et al.* (See Thommen, John P., assignor.)
Greenly, Arthur J., London, England. Power control for aeronautical machines and the like. No. 1,339,332; May 4; v. 274; p. 126.
Greenpoint Metallic Bed Company. (See Basile, Joseph, assignor.)
Greensfelder, Bernard, *et al.* (See Hachmann, Frederick, assignor.)
Greenstone, Samuel, Jersey City, N. J. Automobile-fender. No. 1,331,910; Feb. 24; v. 271; p. 601.
Greenstreet, Charles J., St. Louis, Mo. Conveying liquids. No. 1,329,967; Feb. 3; v. 271; p. 116.
Greenwald, Charles E., Spokane, Wash. Belt. No. 1,327,035; Jan. 6; v. 270; p. 30.
Greenwald, Charles E., deceased, Spokane, Wash.; S. B. Greenwald, administratrix. Belt. No. 1,361,983; Dec. 14; v. 281; p. 248.
Greenwald, Jacob, New York, N. Y. Combination hanger and frame-protector. No. 1,340,711; May 18; v. 274; p. 520.
Greenwald, Jacob J., Sheboygan, Wis. Window-screen. No. 1,347,946; July 27; v. 276; p. 695.
Greenwald, Sallie B., administratrix. (See Greenwald, Charles E.)
Greenwald, Simon, New York, N. Y. Constructing coat-fronts. No. 1,330,631; Feb. 10; v. 271; p. 271.
Greenwalt, Jesse A., Galveston, Tex. Tape feeding and checking register. No. 1,335,576; Mar. 30; v. 272; p. 860.
Greenwood, Conrad V., Blundellsands, near Liverpool, England. Tanning. No. 1,349,150; Aug. 10; v. 277; p. 250.
Greenwood, Guyon F., Georgeville, Quebec, Canada. Metallurgical method and apparatus. No. 1,338,439; Apr. 27; v. 273; p. 722.
Greenwood, Guyon F., Georgeville, Quebec, Canada. Production of lead. No. 1,338,440; Apr. 27; v. 273; p. 722.
Greenwood, Guyon F., Georgeville, Quebec, Canada. Vehicle-coupling. No. 1,363,777; Dec. 28; v. 281; p. 688.
Greenwood, Harold C., Putney, London, England. Synthetic production of ammonia. No. 1,329,397; Feb. 3; v. 271; p. 10.
Greenwood, Harold C., London, England. Synthetic production of ammonia. No. 1,337,908; Apr. 20; v. 273; p. 552.
Greenwood, Harold C., and W. R. Tate, London, England. Construction of catalyst-furnaces. No. 1,335,891; Apr. 6; v. 273; p. 35.
Greenwood, Oliver P., Billerica, assignor, by mesne assignments, to A. B. Dove, Andover, Mass. Distributing-machine. No. 1,339,557; May 11; v. 274; p. 244.
Greenwood, Percy, assignor to A. A. Follmer, New York, N. Y. Lace-making machine. No. 1,351,329; Aug. 31; v. 277; p. 857.
Greer, Benjamin J., Poyner, Tex. Lock-nut. No. 1,331,011; Feb. 17; v. 271; p. 413.
Greer, Butler F., San Francisco, Calif. Safe. No. 1,356,981; Oct. 26; v. 279; p. 637.
Greer, Butler F., San Francisco, Calif. Book-form bank. No. 1,357,774; Nov. 2; v. 280; p. 109.
Greer, James H., Robinson, Kans. Trap. No. 1,343,502; June 15; v. 275; p. 486.
Greer, James K., and C. Curtright, Paris, Mo. Automatic air-gage. No. 1,334,897; Mar. 23; v. 272; p. 673.
Greer, John A., Omaha, Nebr. Station-indicator and advertising device. No. 1,336,032; Apr. 6; v. 273; p. 62.
Greer, Thomas H. (See Scott, J. W., and Greer.)
Greer, Willie, Osceola, Ark. Motor-vehicle. No. 1,351,641; Aug. 31; v. 277; p. 919.
Greeson, Clarett B., Cedar Falls, Iowa. Washing-machine mechanism. No. 1,334,608; Mar. 23; v. 272; p. 617.
Grefe, John, Evansville, Ind. Tractor-wheel. No. 1,363,317; Dec. 28; v. 281; p. 600.
Gregg, Charles L., Chittenango, N. Y. Automobile-signal. No. 1,359,697; Nov. 23; v. 280; p. 638.
Gregg Company, The. (See Gregg, Otis T. and W. B., assignors.)
Gregg, Louis D., Hackensack, N. J. Cane-shifting apparatus. No. 1,332,292; Mar. 2; v. 272; p. 22.
Gregg, Otis T. and W. B., assignors to The Gregg Company, Limited, Hackensack, N. J. Side-door-car construction. No. 1,348,170; Aug. 3; v. 277; p. 7.
Gregg, William B. (See Gregg, Otis T. and W. B.)
Gregory, Benjamin F., and W. H. Craun, Hoboken, N. J. Front-wheel drive for automobiles. No. 1,361,047; Dec. 7; v. 281; p. 13.
Gregory, Eli E., Lewisport, Ky., assignor to Rangefinding Sight Company, New York, N. Y. Gun-sight. No. 1,350,153; Aug. 17; v. 277; p. 518.
Gregory, Frank J., New York, N. Y. Book-cover. No. 1,356,445; Oct. 19; v. 279; p. 485.
Gregory, George H., East Orange, N. J. Adjustable shower-spray device. No. 1,327,428; Jan. 6; v. 270; p. 102.
Gregory, James K., Seattle, Wash. Supplemental saucer. No. 1,359,056; Nov. 16; v. 280; p. 468.
Gregory, Morton. (See Hazeltine, H. H., and Gregory.)
Gregory, Ralph, Kansas City, Mo., assignor to Oil Well Reclamation Company, Chicago, Ill. Oil-well pump. No. 1,332,333; Mar. 2; v. 272; p. 30.
Gregory, Ralph, Kansas City, Mo., assignor to Oil Well Reclamation Company, Chicago, Ill. Automatic air-pump. No. 1,332,334; Mar. 2; v. 272; p. 30.
Gregory & Read Co., *et al.* (See Tisdell, Frank J., assignor.)
Gregory, Thomas, New Malden, England. Quick-release device. No. 1,360,521; Nov. 30; v. 280; p. 869.
Gregory, Thomas M., Akron, Ohio. Toy ball. No. 1,356,817; Oct. 26; v. 279; p. 605.
Gregovsky, Emmanuel J., Pensacola, Fla. Metal clamp. No. 1,334,151; Mar. 16; v. 272; p. 486.
Gregware, Harvey L., Beverly, Mass., assignor to F. M. Page, Lynnfield, Mass. Tape-moistening machine. No. 1,352,892; Sept. 14; v. 278; p. 266.
Greig, George D., Peoria, Ill. Watch-stem. No. 1,353,040; Sept. 14; v. 278; p. 294.
Greinacher, Heinrich, assignor to Arnold Bopp & Co., Zurich, Switzerland. Device for taking a regulable constant continuous current from an alternating-current line. No. 1,329,897; Feb. 3; v. 271; p. 104.
Greiner, Alfred. (See Farrelly, F. J., and Greiner.)
Greischar, Henry H. and L. E., St. James, Minn. Bicycle-stand holder. No. 1,332,826; Mar. 2; v. 272; p. 124.
Greischar, Leonard E. (See Greischar, Henry H. and L. E.)
Greist, Hubert M., assignor to Just Sew Ready-Cut Garment Company, New Haven, Conn. Dressmaking. No. 1,360,287; Nov. 30; v. 280; p. 823.
Greist Manufacturing Company, The. (See Beckert, Frederick W., assignor.)
Greist Manufacturing Company, The. (See Lent, Wilmar F., assignor.)
Grems, Glen S. (See Vandenburgh, W. E., and Grems.)
Grenagle, James B., Catonsville, Md., assignor to The Rare Metals Reduction Company. Metal alloy. No. 1,334,089; Mar. 16; v. 272; p. 474.
Grenard, Harvey R., Sioux Falls, S. D. Gate-hook. No. 1,334,997; Mar. 30; v. 272; p. 752.
Grenchus, Peter, Mechanicsville, N. Y. Cabinet for music. No. 1,333,250; Mar. 9; v. 272; p. 255.
Grenci, Bruno, Clifton City, N. J. Fluid-pipe coupling. No. 1,343,819; June 15; v. 275; p. 550.
Grendling, Edwin J., Colfax, Ill. Gate-latch. No. 1,348,715; Aug. 3; v. 277; p. 113.
Grenier, Fernand, assignor to La Société Robin, Grenier Vidy & G. Zwingelstein, Nantes, France. Carburetor for internal-combustion engines using heavy oils. No. 1,351,104; Aug. 31; v. 277; p. 811.

Digitized by Google

Grenzfelder, Julius M., St. Louis, Mo. Quick-adjustable screw-wrench. No. 1,343,448; June 15; v. 275; p. 475.
Gresham, William S., Richland, Mo. Fencepost. No. 1,339,819; May 11; v. 274; p. 295.
Gressle, Charles W. (See Manternach, J. C., and Gressle.)
Greten, Auguste C., and F. Musman, Luxemburg, Luxemburg. Four-stroke-cycle internal-combustion-engine. No. 1,354,101; Sept. 28; v. 278; p. 609.
Gretencord, Edward J., Ottawa, Ill. Sheller-drag. No. 1,338,727; May 4; v. 274; p. 15.
Greuter, Charles R., Cincinnati, Ohio. Carbureter. No. 1,350,799; Aug. 24; v. 277; p. 691.
Greuter, Charles R., Detroit, Mich. Engine-valve mechanism. No. 1,350,800; Aug. 24; v. 277; p. 691.
Greville, Ernest E., London, England. X-ray tube-stand and table. No. 1,337,904; Apr. 20; v. 273; p. 552.
Grey, Alexander M., Peever, S. D. Tractor attachment. No. 1,333,171; Mar. 9; v. 272; p. 241.
Grey, Charles M., East Orange, N. J. Die-casting. No. 1,333,754; Mar. 16; v. 272; p. 411.
Grey, Nicholas, New Brunswick, N. J. Phonograph. No. 1,361,717; Dec. 7; v. 281; p. 148.
Grey, Nicholas, New Brunswick, N. J. Phonograph. No. 1,361,718; Dec. 7; v. 281; p. 148.
Grgic, Ivan, Conway, Pa. Toy. No. 1,347,696; July 27; v. 276; p. 645.
Gridley, Fay A. (See Bilyen and Gridley.)
Grieb, Daniel A., Indianapolis, Ind. Storage-battery separator. No. 1,362,289; Dec. 14; v. 281; p. 308.
Grierson, John G., Richmond, Calif. Eccentric bushing for steam-radiators. No. 1,346,403; July 13; v. 276; p. 273.
Griesbaum, Erwin, St. Louis, Mo. Air-pump. No. 1,341,460; May 25; v. 274; p. 736.
Grieshaber, Hugo E., New London, Conn., assignor to Electric Boat Company. Torpedo-launching apparatus. No. 1,327,614; Jan. 13; v. 270; p. 198.
Grieshamer, John, Jacksonville, Fla. Automobile-light dimmer. No. 1,353,231; Sept. 21; v. 278; p. 891.
Grieve, Richard P., Boston, Mass. Internal-combustion engine. No. 1,345,169; June 29; v. 275; p. 942.
Griffey, Andrew M., Meeker, Okla. Antisetting device. No. 1,346,954; July 20; v. 276; p. 442.
Griffice, George D., Big Spring, Tex. Planter attachment. No. 1,328,375; Jan. 20; v. 270; p. 378.
Griffin, Albert A., Davenport, Iowa. Chiropractic table. No. 1,337,311; Apr. 20; v. 273; p. 439.
Griffin, Albert A., Davenport, Iowa. Chiropractic table. No. 1,337,312; Apr. 20; v. 273; p. 440.
Griffin, Alvah M., Kansas City, Mo. Electrolytic cell. No. 1,327,094; Jan. 6; v. 270; p. 41.
Griffin, Asa A. H., Butler, Pa. Combined bracket and clamp. No. 1,350,221; Aug. 17; v. 277; p. 532.
Griffin, Charles W., Nora, Nebr. Shocker attachment. No. 1,361,322; Dec. 7; v. 281; p. 68.
Griffin, Charles W., Riegelsville, N. J. Hard-stock chopper. No. 1,363,778; Dec. 28; v. 281; p. 689.
Griffin, Eddie F., Uniontown, Pa. Automobile-signal. No. 1,351,642; Aug. 31; v. 277; p. 919.
Griffin, Francis B. (See Darby, John, assignor.)
Griffin, Gordon. (See Neel, Ernest A., assignor.)
Griffin, James T., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Welding mechanism. No. 1,360,288; Nov. 30; v. 280; p. 824.
Griffin, James J., Melbourne, Victoria, Australia. Apparatus for stoning and splitting fruit. No. 1,334,449; Mar. 23; v. 272; p. 588.
Griffin, John B., Maple Hill, Conn. Phonograph. No. 1,348,357; Aug. 3; v. 277; p. 45.
Griffin, John B., Newington, Conn. Flexible tripping device for phonographs. No. 1,348,358; Aug. 3; v. 277; p. 45.
Griffin, John F., *et al.* (See Mentzer, Claude E., assignor.)
Griffin, John J., & Sons Limited. (See McAlpine, George L., assignor.)
Griffin, John P., New York, N. Y. Ash-tray. No. 1,342,805; June 8; v. 275; p. 287.
Griffin, Lorne A., Evanston, assignor to The American Steam Conveyor Corporation, Chicago, Ill. Ash-conveyer. No. 1,329,522; Feb. 3; v. 271; p. 34.
Griffin, Lorne A., Evanston, assignor to American Steam Conveyor Corporation, Chicago, Ill. Ash-conveyer. No. 1,331,986; Feb. 24; v. 271; p. 616.
Griffin, Lorne A., Evanston, assignor to American Steam Conveyor Corporation, Chicago, Ill. Ash-conveyer. No. 1,331,987; Feb. 24; v. 271; p. 616.
Griffin, Lorne A., Evanston, assignor to American Steam Conveyor Corporation, Chicago, Ill. Elbow for ash-conveyer systems. No. 1,331,988; Feb. 24; v. 271; p. 616.
Griffin, Lorne A., Evanston, assignor to American Steam Conveyor Corporation, Chicago, Ill. Conveyer-conduit. No. 1,342,167; June 1; v. 275; p. 109.
Griffin, Lorne A., Evanston, assignor to American Steam Conveyer Corporation, Chicago, Ill. Safety device for ash-conveyer discharge-conduits. No. 1,361,252; Dec. 7; v. 281; p. 53.
Griffin Mfg. Co., The, *et al.* (See Griffin, Patrick J., assignor.)
Griffin, Patrick J., Dorchester, Mass., assignor of one-half to L. H. Shipman and one-half to The Griffin Mfg. Co., Boston, Mass. Steam-drive for automobiles. No. 1,330,863; Feb. 17; v. 271; p. 883.
Griffin, Patrick J., Dorchester, Mass. Valve. No. 1,331,194; Feb. 17; v. 271; p. 446.
Griffin, Patrick J., Dorchester, Mass. Propeller. No. 1,360,933; Nov. 30; v. 280; p. 949.
Griffin, W. H., and O. C. Hartsough, Canton, Ohio. Convertible interior of automobiles. No. 1,353,232; Sept. 21; v. 278; p. 391.
Griffin Wheel Company. (See Vial, Frederick K., assignor.)
Griffin, William G. (See Davis, G. H., and Griffin.)
Griffis, Edgar A., Cozad, Nebr. Barber's seat. No. 1,361,323; Dec. 7; v. 281; p. 68.
Griffis, Merle. (See Schadt, A. M., and Griffis.)
Griffith, Albert W., Pittsburgh, Pa. Gearing. No. 1,345,847; July 6; v. 276; p. 102.
Griffith, Cedric E., Los Angeles, Calif. Fishing-tool. No. 1,363,779; Dec. 28; v. 281; p. 689.
Griffith, David W., Los Angeles, Calif. Method and apparatus for projecting moving and other pictures with color effects. No. 1,334,853; Mar. 23; v. 272; p. 665.
Griffith, Graves, San Francisco, Calif. Internal-combustion hydraulic pump. No. 1,327,036; Jan. 6; v. 270; p. 30.
Griffith, Graves, San Francisco, Calif. Optical device for the production and projection of stereoscopic pictures. No. 1,334,532; Mar. 23; v. 272; p. 603.
Griffith, John W., San Francisco, Calif. Writing-position penholder. No. 1,341,847; June 1; v. 275; p. 46.
Griffith, Melvin J., Barberton, Ohio. Septic tank. No. 1,349,452; Aug. 10; v. 277; p. 309.
Griffith, Raymond W., Milwaukee, Wis. Combination-lock. No. 1,353,583; Sept. 21; v. 278; p. 461.
Griffith, Webster E. (See Lane, Charles W., assignor.)
Griffith, William T., Irondale, Ohio. Steel vise-tie. No. 1,333,484; Mar. 9; v. 272; p. 300.
Griffiths, Daniel E., Pittsburgh, Pa. Metallurgical furnace. No. 1,350,865; Aug. 24; v. 277; p. 703.
Griffiths, David I., Frostburg, Md. Direction-signal. No. 1,348,716; Aug. 3; v. 277; p. 113.
Griffiths, Edward J. (See Griffiths, William A. and E. J.)
Griffiths, Ethel G., *et al.*, executors. (See Whitaker, Frederick B.)
Griffiths, John. (See Cook, W., Butler, and Griffiths.)
Griffiths, William A. and E. J., Homestead, Pa. Automobile-tire. No. 1,348,871; Aug. 10; v. 277; p. 195.
Griffiths, William U., Philadelphia, Pa. Safety device for operating flush-tank valves. No. 1,343,261; June 15; v. 275; p. 440.
Griffiths, William U., Philadelphia, Pa. Interlocking flush-tank lever and fulcrum. No. 1,344,128; June 22; v. 275; p. 675.
Griffiths, William U., Philadelphia, Pa. Inlet-valve for water-closet tanks. No. 1,347,507; July 27; v. 276; p. 607.
Griffiths, William U., Philadelphia, Pa. Valve-operating mechanism. No. 1,356,278; Oct. 19; v. 279; p. 453.
Grigas, Anthony, and M., Worcester, Mass. Paper-hanging apparatus. No. 1,354,184; Sept. 28; v. 278; p. 625.
Grigas, Mike. (See Grigas, Anthony and M.)
Grigg, Thomas H., Philadelphia, Pa. Sound-amplifying device. No. 1,346,491; July 13; v. 276; p. 291.
Griggs, Hiram E., Wayne, Nebr. End-gate. No. 1,351,165; Aug. 31; v. 277; p. 823.
Griggs, John O., Youngstown, Ohio. Open-hearth furnace. No. 1,331,989; Feb. 24; v. 271; p. 616.
Griggs, John O., Youngstown, Ohio. Open-hearth furnace. No. 1,353,830; Sept. 28; v. 278; p. 554.
Grignon, Ephraim P., Appleton, Wis. Bowling-pin. No. 1,351,421; Aug. 31; v. 277; p. 875.
Grigsby, Arle, assignor of one-half to J. Lynch, Olney, Ill. Draw-bar lifter and holder. No. 1,348,491; Aug. 3; v. 277; p. 70.
Grigsby, Bertram J. and O. E., Peoria, Ill. Lighting-fixture. No. 1,330,585; Feb. 10; v. 271; p. 263.
Grigsby, Owen E. (See Grigsby, Bertram J. and O. E.)
Grigsby, Ruby J., Heflin, La. Valve-controlling device. No. 1,344,633; June 29; v. 275; p. 839.
Grikscheit, William, Detroit, Mich. Cock. No. 1,332,894; Mar. 9; v. 272; p. 188.
Grikscheit, William, Detroit, Mich. Vehicle-wheel rim. No. 1,348,137; July 27; v. 276; p. 733.
Grikscheit, William, Detroit, Mich. Priming-cup. No. 1,353,584; Sept. 21; v. 278; p. 461.
Grikscheit, William, Detroit, Mich. Priming-cup. No. 1,360,108; Nov. 23; v. 280; p. 720.
Grim, Eugene S., Pittsburgh, Pa. Dispensing device. No. 1,360,211; Nov. 23; v. 280; p. 740.
Grimes, Elias O., Jr., Westminster, and O. F. Baltsley, Hagerstown, assignors to The Liberty Tool Company, Baltimore, Md. Staybolt-heading attachment for pneumatic hammers. No. 1,339,453; May 11; v. 274; p. 225.
Grimes, Harry M., Kokomo, Ind. Spark-plug. No. 1,359,591; Nov. 23; v. 280; p. 617.
Grimes, Thaddeus S., assignor to Luminus Cotton Gin Company, Columbus, Ga. Belt-tightener for elevator-boots. No. 1,358,437; Nov. 9; v. 280; p. 302.
Grimm, Clayford T., Adrian, W. Va. Tie-plate. No. 1,343,262; June 15; v. 275; p. 440.

Digitized by Google

Grimwood, Charles P., Los Angeles, Calif. Apparatus for the recovery of the contents of liquids. No. 1,348,409; Aug. 3; v. 277; p. 55.
Grindall, William H. (See Epright, A. W., and Grindall.)
Griner, Alvah A., Bayside, assignor to Renaissance Corset Co., Inc., New York, N. Y. Machine for making fabricated wire. No. 1,327,467; Jan. 6; v. 270; p. 109.
Griner, Robert N., Kokomo, Ind. Pouring vessel. No. 1,344,688; June 29; v. 275; p. 850.
Grings, Casper H., Waterloo, Iowa. Slide-loop holder. No. 1,341,314; May 25; v. 274; p. 707.
Grings, Casper H., Waterloo, Iowa. Buckle. No. 1,341,315; May 25; v. 274; p. 707.
Grings, Casper H., Waterloo, Iowa. Signaling device for vehicles. No. 1,358,438; Nov. 9; v. 280; p. 302.
Griscom-Russell Company, The. (See Jones, Russell C., assignor.)
Griscom-Russell Company, The. (See Ripley, William H., assignor.)
Grisius, Frank, Milwaukee, Wis. Shade-fixture. No. 1,330,465; Feb. 10; v. 271; p. 241.
Grissinger, Elwood, assignor to L. A. Grissinger, Buffalo, N. Y. Phonograph and analogous apparatus. No. 1,339,558; May 11; v. 274; p. 245.
Grissinger, Elwood, assignor to L. A. Grissinger, Buffalo, N. Y. Phonograph and analogous apparatus. No. 1,339,648; May 11; v. 274; p. 262.
Grissinger, Elwood, assignor to L. A. Grissinger, Buffalo, N. Y. Phonograph and analogous apparatus. No. 1,339,649; May 11; v. 274; p. 263.
Grissinger, Lucy A. (See Grissinger, Elwood, assignor.)
Griswold, Albert A., Providence, R. I., assignor of one-half to J. F. Chevalier, Brookline, Mass. Flexible shingle. No. 1,359,167; Nov. 16; v. 280; p. 488.
Griswold, Charles E., Globe, Ariz. Shaking-screen. No. 1,330,371; Feb. 10; v. 271; p. 228.
Griswold, Frederick C., assignor to O. A. Griswold, Port Jefferson, N. Y. Film-splicer. No. 1,356,761; Oct. 26; v. 279; p. 594.
Griswold Manufacturing Company. (See Hollands, John C., assignor.)
Griswold, G. W. (See Stubbs, Robert A., assignor.)
Griswold, Jesse H., and O. H. Lutz, Zion City, assignors, by mesne assignments, of one-half to J. R. H. Potts, Chicago, Ill. Control for electric-lighting systems on vehicles. No. 1,361,048; Dec. 7; v. 281; p. 14.
Griswold, John W. (See Buell, W. C., Jr., and Griswold.)
Griswold, Leslie W., Des Moines, Iowa. Air-control device for engines. No. 1,352,509; Sept. 14; v. 278; p. 188.
Griswold Manufacturing Company. (See Massing, Charles A., assignor.)
Griswold Manufacturing Company. (See Monihan, Daniel J., assignor.)
Griswold, Olive A. (See Griswold, Frederick C., assignor.)
Griswold, Ray H., and A. W. Hammond, Cleveland, assignors to The Dunham Company, Berea, Ohio. Apparatus for seeding. No. 1,340,654; May 18; v. 274; p. 510.
Griswold, William S., Guthrie, Okla. Track-sander. No. 1,356,982; Oct. 26; v. 279; p. 637.
Griswold, Williamson D., Burlington, Iowa. Automatic stop for phonographs. No. 1,339,058; May 4; v. 274; p. 76.
Gritte, Joseph. (See Camell, R., Cochet, and Gritte.)
Gritton, Alpheus J., Worthington, Minn. Automatic ventilating device for water-closets. No. 1,362,290; Dec. 14; v. 281; p. 308.
Gritzner, Silas A., Montague, Mich. Valve. No. 1,363,248; Dec. 28; v. 281; p. 587.
Grob, Arnold, assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Apparatus for producing pressed-metal articles. No. 1,345,594; July 6; v. 276; p. 53.
Grob, Henry, Detroit, Mich. Cooking utensil. No. 1,338,830; May 4; v. 274; p. 33.
Grob, Hugo, Zurich, Switzerland. Switching-over device for electrical lighting installations for railway-trains and the like. No. 1,348,171; Aug. 3; v. 277; p. 8.
Groch, Frank, Cobalt, Ontario, Canada. Apparatus for ore concentration. No. 1,333,712; Mar. 16; v. 272; p. 403.
Grochmal, Jan, Chicopee, Mass. Alcohol-stove. No. 1,339,059; May 4; v. 274; p. 77.
Groebli, Joseph A., New York, N. Y. Bead-sewing machine. No. 1,350,449; Aug. 24; v. 277; p. 623.
Groebli, Joseph A., New York, N. Y. Bead-sewing machine. No. 1,356,762; Oct. 26; v. 279; p. 594.
Groeger, Louis C. H., Chicago, Ill. Electric furnace and operation. No. 1,333,914; Mar. 16; v. 272; p. 441.
Groene, William F., assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Device for connecting tools to spindles. No. 1,337,313; Apr. 20; v. 273; p. 440.
Groene, William F., assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Lathe. No. 1,358,728; Nov. 16; v. 280; p. 404.
Groene, William F., assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Tailstock. No. 1,361,792; Dec. 7; v. 281; p. 162.
Groene, William F., assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Lathe. No. 1,363,506; Dec. 28; v. 281; p. 636.
Groene, William F., and W. G. Hoelscher, assignors to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Base and chip-pan for machine-tools. No. 1,363,969; Dec. 28; v. 281; p. 725.
Groenewold, Dick, Kiel, Okla. Grain-elevator. No. 1,340,606; May 18; v. 274; p. 501.
Groeninger, John A., St. Louis, Mo. Scaffolding-frame-work clamp. No. 1,356,618; Oct. 26; v. 279; p. 566.
Groff, Angus R., assignor to A. R. G. Auxiliary Spring Company, Birmingham, Ala. Auxiliary spring for automobiles and motor-driven vehicles. No. 1,351,105; Aug. 31; v. 277; p. 812.
Groff, James S., Newport, R. I. Electroplating. No. 1,364,051; Dec. 28; v. 281; p. 741.
Groff, Joseph G., Buffalo, N. Y. Holder for paper bags and similar articles. No. 1,340,335; May 18; v. 274; p. 449.
Groger, H. S., *et al.* (See Calentine, George C., assignor.)
Groger, R. H., *et al.* (See Calentine, George C., assignor.)
Grohs, John, Vaughn, Mont. Carrier attachment for grain binders or harvesters. No. 1,362,617; Dec. 21; v. 281; p. 423.
Gromer, Standley D., Tucson, Ariz. Bathing apparatus. No. 1,359,985; Nov. 23; v. 280; p. 696.
Gromes, Adam J., Sinking Spring, Pa. Limb and foot brace. No. 1,336,695; Apr. 13; v. 273; p. 248.
Gronbech, Christian E. A. (See Milker, Herbert P., and Gronbech.)
Gronbech, Christian E. A., New York, assignor to Charles J. Tagliabue Manufacturing Co., Brooklyn, N. Y. Syringe. No. 1,348,796; Aug. 3; v. 277; p. 128.
Grondahl, Lars O., Pittsburgh, Pa., and A. H. Pfund, Baltimore, Md. Cover for headlights. No. 1,350,277; Aug. 17; v. 277; p. 542.
Gröndal, Gustaf, Djursholm, Sweden. Mechanical-feeding furnace. No. 1,360,210; Nov. 23; v. 280; p. 740.
Gröndal, Gustaf, Djursholm, Sweden. Lixiviation of granular and pulverulent material. No. 1,363,970; Dec. 28; v. 281; p. 726.
Gronquist, Carl G., assignor to The Locomobile Company, Bridgeport, Conn. Oiling device. No. 1,356,355; Oct. 19; v. 279; p. 468.
Gronroos, Hugo, Copenhagen, Denmark. Mold for casting artificial building-stone with outer and inner vertical and horizontal through-canals. No. 1,340,952; May 25; v. 274; p. 636.
Grönroos, Hugo, Copenhagen, Denmark. Production of artificial stones or slabs of marble-like appearance. No. 1,341,979; June 1; v. 275; p. 72.
Grönroos, Jakob, Fairport Harbor, Ohio. Antiskid device for automobiles. No. 1,351,750; Sept. 7; v. 278; p. 7.
Gronseth, Luther E., Duluth, Minn. Check-writer. No. 1,349,880; Aug. 17; v. 277; p. 466.
Groomes, Harry M., Detroit, Mich. Disappearing vehicle-top. No. 1,333,844; Mar. 16; v. 272; p. 428.
Groot, Charles W., Rochester, N. Y. Folding gasolene stove with utensils. No. 1,354,393; Sept. 28; v. 278; p. 668.
Groover, John N., Birmingham, Ala. Pick. No. 1,357,451; Nov. 2; v. 280; p. 47.
Gros, Ferdinand, & Bouchardy. (See Guye, Philippe A., assignor.)
Gros, Louis F., Paris, France. Machine for cutting out and stamping out. No. 1,353,831; Sept. 28; v. 278; p. 554.
Groschke, F. E. (See Hales, Wiley J., assignor.)
Grosjean, James E., Lima, assignor of one-fourth to L. F. Montgomery, Fort Recovery, and one-fourth to F. L. Maire, Lima, Ohio. Manufacturing composite soles for boots or shoes. No. 1,344,503; June 22; v. 275; p. 749.
Grosjean, James E., Lima, assignor of one-fourth to L. F. Montgomery, Fort Recovery, and one-fourth to F. L. Maire, Lima, Ohio. Sole for boots or shoes. No. 1,344,504; June 22; v. 275; p. 749.
Gross, Annie M., Philadelphia, Pa. Curtain-holder. No. 1,345,170; June 29; v. 275; p. 942.
Gross, Charles F. (See Clark, George C., assignor.)
Gross, Charles M., Mount Union, Pa. Builder's-line holder. No. 1,344,224; June 22; v. 275; p. 693.
Gross, Clark F. (See Gordon, Albert J., assignor.)
Gross, Daniel N. South Fort Smith, Ark. Gas-stove. No. 1,339,618; May 11; v. 274; p. 257.
Gross, Elmer J. (See Arnold, G. A., and Gross.)
Gross, Frank, Louisville, Colo. Brush-cutter. No. 1,346,197; July 13; v. 276; p. 232.
Gross, Frank, Denver, Colo. Brush-cutter. No. 1,356,619; Oct. 26; v. 279; p. 566.
Gross, Frederick W., Columbus, Ohio. Silo. No. 1,340,890; May 25; v. 274; p. 625.
Gross, John E., Walla Walla, Wash. Threshing-machine. No. 1,342,806; June 8; v. 275; p. 287.
Gross Photo Supply Company, The. (See Butler, Silas E., assignor.)
Gross, William. (See Burger, W. A., and Gross.)
Gross, William J., St. Paul, Minn. Heater. No. 1,360,934; Nov. 30; v. 280; p. 949.
Gross, William M., Las Vegas, Nev. Excavating and loading machine. No. 1,332,662; Mar. 2; v. 272; p. 93.

Digitized by Google

Grossman, Harry D. and P. X., Chicago, Ill. Fountain-pen. No. 1,362,291; Dec. 14; v. 281; p. 308.
Grossman, Henry E. (See Palmer, William W., assignor.)
Grossman, Joseph. (See Altman, S., and Grossman.)
Grossman, Mollie L., New York, N. Y. Toilet article. No. 1,330,372; Feb. 10; v. 271; p. 228.
Grossman, Paul X. (See Grossman, H. D. and P. X.)
Grosvenor, William M., New York, N. Y. Stopper. No. 1,332,335; Mar. 2; v. 272; p. 30.
Grosvold, Fred E., Eau Claire, Wis. Humidifying-radiator unit. No. 1,353,744; Sept. 21; v. 278; p. 494.
Grote, Fred J., Cincinnati, Ohio. Shade and curtain bracket. No. 1,343,126; June 8; v. 275; p. 350.
Groten, Maximilian. (See Vinograd, E., and Groten.)
Grotenhuis, William J. (See Pancoast, W. G., and Grotenhuis.)
Groth, George H., Dayton, Ohio. Fluid-pressure motor. No. 1,355,962; Oct. 19; v. 279; p. 390.
Grotkowski, Stanley, Chicopee, Mass. Gas-kindling grate. No. 1,344,341; June 22; v. 275; p. 716.
Grotz, Charles A., Chicago, Ill. Transmission mechanism. No. 1,353,390; Sept. 21; v. 278; p. 422.
Grounds, Albert R., Hooker, Okla. Harvesting implement. No. 1,344,033; June 22; v. 275; p. 656.
Groupe, Andrew V. (See Brenizer, Orson W., assignor.)
Grove, Edwin W. (See Carrier, Albert H., assignor.)
Grove, Frank H. (See Major, W. R., and Grove.)
Grove, George H., Harrisburg, Pa. Automatic self-closing funnel. No. 1,343,867; June 15; v. 275; p. 560.
Grove, Otto K., Netawaka, Kans. Scoop-gate and clip therefor. No. 1,343,263; June 15; v. 275; p. 440.
Grover, Albert D., New York, N. Y., assignor, by mesne assignments, to Autosales Corporation. Coin-controlled vending-machine. No. 1,330,073; Feb. 10; v. 271; p. 167.
Grover, Albert D., New York, N. Y., assignor to Autosales Corporation. Magazine-support for vending-machines. No. 1,331,980; Feb. 24; v. 271; p. 616.
Grover, Albert D., New York, N. Y. Mute-carrier for stringed musical instruments. No. 1,332,551; Mar. 2; v. 272; p. 72.
Grover, Albert D., New York, N. Y. Attachment for banjos and the like. No. 1,332,552; Mar. 2; v. 272; p. 73.
Grover, Albert D., New York, N. Y. Head-tightening device for banjos and the like. No. 1,338,076; Apr. 27; v. 273; p. 654.
Grover, Albert D., New York, N. Y. Tailpiece for banjos and the like. No. 1,350,310; Aug. 24; v. 277; p. 595.
Grover, Albert D., New York, N. Y., and E. E. Barber, Boston, Mass., assignors, by mesne assignments, to Autosales Corporation. Vending-machine. (Reissue.) No. 14,925; July 27; v. 276; p. 735.
Grover, Arthur C., Painesville, assignor of one-third to H. E. Barnes and one-third to Charles Sanborn, Willoughby, Ohio. Advertising device. No. 1,355,664; Oct. 12; v. 279; p. 291.
Grover, Charles, Gravesend, assignor to W. T. Henley's Telegraph Works Company, Limited, London, England. Distribution of electrical energy. No. 1,337,129; Apr. 13; v. 273; p. 330.
Grower, George G., Ansonia, Conn. Registering apparatus. No. 1,346,100; July 6; v. 276; p. 153.
Grover, William H., Bay Shore, N. Y. Drip device. No. 1,339,195; May 4; v. 274; p. 101.
Groves, Barnett W., St. Petersburg, Fla. Combined pail and sprinkler. No. 1,353,650; Sept. 21; v. 278; p. 475.
Groves, Cecil D., Thornton Heath; E. H. Jarvis, London, and H. W. Bradbury, Wallington, England. Means for automatically securing sliding window-sashes. No. 1,336,696; Apr. 13; v. 273; p. 248.
Groves, Charles H., Beaumont, Tex. Shocker. No. 1,343,775; June 15; v. 275; p. 541.
Groves, George S., Alexandria, Va. Power-driven shoe-shining device. No. 1,332,123; Feb. 24; v. 271; p. 640.
Groves, George S., Mount Ida, Va. Tractor unit. No. 1,337,905; Apr. 20; v. 273; p. 552.
Grozier, Thomas H., Longueville, near Sydney, New South Wales, Australia. Apparatus for the reclaiming of used printers' roller composition. No. 1,344,270; June 22; v. 275; p. 702.
Gruban, John G. W., *et al.* (See Dabbs, Savage, and Hindle, assignors.)
Gruban, John G. W., *et al.* (See Dabbs, A. E., Savage, and Hindle, assignors.)
Gruban, John G. W. (See Hindle, A. H., Savage, Liddle, and Dabbs, assignors.)
Grubb, Charles W., Springfield, Ill. Stand for cake-boxes. No. 1,356,620; Oct. 26; v. 279; p. 566.
Grubb, Thomas, Johnston City, Ill. Mail-handling apparatus. No. 1,346,018; July 6; v. 276; p. 136.
Grubbe, Frank T. (See Morris, T. H., and Grubbe.)
Gruber, Edward, Cleveland, Ohio, assignor to Cleveland Tractor Company, Euclid, Ohio. Unit for track-belts. No. 1,359,499; Nov. 23; v. 280; p. 599.
Gruber, Fred, Newark, N. J. Valve mechanism. No. 1,342,438; June 8; v. 275; p. 214.
Gruber, James S. (See Oliver, A. S., and Gruber.)
Gruber, Louis, assignor to The National Cash Register Company, Dayton, Ohio. Electric welding. No. 1,332,394; Mar. 2; v. 272; p. 43.
Gruchacz, Bronislaw. (See Kuczynski, Stanislaw, assignor.)
Gruenberg, Alexander E., Detroit, Mich. Sprinkler. No. 1,331,255; Feb. 17; v. 271; p. 457.
Gruender, Oscar C., assignor to Chalmers & Williams, Inc., Chicago Heights, Ill. Oil-wiper and supporting means therefor. No. 1,334,090; Mar. 16; v. 272; p. 474.
Gruenfeld, Julius J., Jr., assignor to Associated Engines Company, Chicago, Ill. Christmas-tree ornament. No. 1,349,374; Aug. 10; v. 277; p. 295.
Gruenfeld, Julius J., Jr., Chicago, Ill. Sofa-bed. No. 1,352,806; Sept. 14; v. 278; p. 249.
Gruenfeldt, Emil. (See Foster, H. J., and Gruenfeldt.)
Gruenfeldt, Emil, assignor, by mesne assignments, to The Baker R & L Company, Cleveland, Ohio. Operating mechanism for vehicles. No. 1,350,450; Aug. 24; v. 277; p. 623.
Gruetzmacher, Mary E., Milwaukee, Wis. Safety device for valuables. No. 1,350,606. Aug. 24; v. 277; p. 654.
Gruhl, Irvin W., Los Angeles, Calif. Signaling device. No. 1,327,818; Jan. 13; v. 270; p. 237.
Grümberg, August W., Libau, Latwija, Russia. Apparatus for dumping concrete under water. No. 1,360,109; Nov. 23; v. 280; p. 720.
Grumme, Frederick J., assignor, by mesne assignments, to Wirebound Patents Company, Indianapolis, Ind. Wirebound-box-blank machine. (Reissue.) No. 14,951; Sept. 28; v. 278; p. 681.
Grumme, William F., assignor of one-fourth to L. Segal, New York, N. Y. Apparatus for raising ships. No. 1,344,505; June 22; v. 275; p. 749.
Grundel, Frederick W., Gypsum, Colo. Potato-digging machine. No. 1,333,485; Mar. 9; v. 272; p. 300.
Grundmann, Otto, Jersey City, N. J. Swimming device. No. 1,340,892; May 25; v. 274; p. 625.
Grundmann, William, St. Louis, Mo. Concrete-finishing tool. No. 1,348,639; Aug. 3; v. 277; p. 99.
Grunwald, Bertrand B., assignor to National Magnesia Manufacturing Company, Alameda, Calif. Manufacturing magnesium carbonate. No. 1,361,324; Dec. 7; v. 281; p. 68.
Grunwald, Bertrand B., assignor to National Magnesia Manufacturing Company, Alameda, Calif. Apparatus for manufacturing magnesium carbonate. No. 1,361,325; Dec. 7; v. 281; p. 68.
Grundy, James, Paterson, N. J. Tobacco-pouch. No. 1,357,496; Nov. 2; v. 280; p. 55.
Grundy, John R., Philadelphia, Pa. Flexible coupling. No. 1,352,953; Sept. 14; v. 278; p. 277.
Grunow, William, Newark, N. J. System of delivering mail between aeroplanes and vessels. No. 1,357,861; Nov. 2; v. 280; p. 126.
Grunow, William, Newark, N. J. Mail-carrier for sea delivery service. No. 1,357,862; Nov. 2; v. 280; p. 126.
Grünwald, Fritz, Pozsony, Hungary. Manufacturing electric insulating molded articles. No. 1,330,444; Feb. 10; v. 271; p. 236.
Grupe, Roy M., and T. S. Hunt, Broadview, Mont. Lever-lock. No. 1,341,504; May 25; v. 274; p. 744.
Grupe, Roy M., assignor of one-half to L. A. Henter, Broadview, Mont. Electrically-controlled lever-lock. No. 1,346,746; July 13; v. 276; p. 342.
Gruschka, Max, and F. Marjanko, Prague, Austria. Manufacturing press-button parts. No. 1,327,322; Jan. 6; v. 270; p. 82.
Grush, Harry, Johnstown, Pa. Combinational roof ladder and bracket. No. 1,363,864; Dec. 28; v. 281; p. 706.
Gruss, Albert G., and P. Geyer, assignors to Doehler Die Casting Company, Brooklyn, N. Y. Casting process. No. 1,341,461; May 25; v. 274; p. 736.
Gruss, George H., San Francisco, Calif. Internal-combustion engine. No. 1,341,367; May 25; v. 274; p. 718.
Gruss, Lucien R., assignor to Pneumatic Cushion Company, San Francisco, Calif. Air-spring. No. 1,330,527; Feb. 10; v. 271; p. 252.
Gruss, Lucien R., assignor to Pneumatic Cushion Company, San Francisco, Calif. Pneumatic cushion for vehicles. No. 1,331,564; Feb. 24; v. 271; p. 535.
Gruss, Lucien R., assignor to Pneumatic Cushion Company, San Francisco, Calif. Air-spring. No. 1,343,560; June 15; v. 275; p. 498.
Grüttefien, Wilhelm, Elberfeld, Germany, assignor to Alien Property Custodian. Trimethyl-acetyl-salicylic-acid compound. No. 1,338,297; Apr. 27; v. 273; p. 695.
Gruver, George F. (See Streibich, J. C., and Gruver.)
Gruwell, Robert C., Peters, Calif. Means for connecting gang-plows to tractors. No. 1,363,507; Dec. 28; v. 281; p. 636.
Grzybowski, Joseph, Huron, S. D. Corn or bean planter. No. 1,362,569; Dec. 14; v. 281; p. 362.
Gstalder, Paul A., Pittsburgh, Pa., assignor to The Ohio Varnish Company, Cleveland, Ohio. Graining. No. 1,347,028; July 20; v. 276; p. 457.
Gstalder, Paul A., Pittsburgh, Pa., assignor to The Ohio Varnish Company, Cleveland, Ohio. Graining-tool. No. 1,347,029; July 20; v. 276; p. 457.
Gstalder, Paul A., Pittsburgh, Pa., assignor to The Ohio Varnish Company, Cleveland, Ohio. Graining-tool. No. 1,347,030; July 20; v. 276; p. 457.
Guano & Raggio, Inc. (See Tybout, Richard R., assignor.)
Guarantee Visible Measure Sales Company. (See Townsend, William S., assignor.)

Digitized by Google

Guaranteed Tractors. (See Phillips, Walter C., assignor.)
Guaranty Trust Company of New York, executor. (See Ferris, Katherine C.)
Guardian Savings & Trust Company, The, *et al.*, executors. (See Hays, Louis H.)
Guardian Trust and Savings Bank of Toledo, The. (See Lott, Clyde R., assignor.)
Guastavino, Rafael. (See Sabine, W. C., and Guastavino.)
(Reissue.)
Guay, Emile J., Lynn, Mass., assignor to General Electric Company. Machine for making blanks for gear-rolls, &c., from spinnable textile fibers. No. 1,337,067; Apr. 13; v. 273; p. 519.
Gubelmann, William S., Buffalo, N. Y. Horizontal ruling mechanism for calculating and like machines. No. 1,333,307; Mar. 9; v. 272; p. 266.
Gubelmann, William S., Buffalo, N. Y. Key-interlocking mechanism for calculating and like machines. No. 1,334,533; Mar. 23; v. 272; p. 603.
Gubelmann, William S., Buffalo, N. Y. Dating mechanism for calculating and like machines. No. 1,348,942; Aug. 10; v. 277; p. 209.
Gudegast, Christian H., Richmond Hill, N. Y. Phonograph-cabinet. No. 1,340,766; May 18; v. 274; p. 530
Gudge, Benjamin J. (See Kempton, W. H., Gudge, and Lauffer.)
Gueldenhaar, Bernhard F. C., Flanagan, Ill. Seeder. No. 1,345,362; July 6; v. 276; p. 7.
Gueiff, John J., *et al.* (See St. Andre, Joseph B., assignor.)
Guerin, William F., Brooklyn, N. Y. Snow-removal and steam-heating system. No. 1,350,968; Aug. 24; v. 277; p. 723.
Guerini, Annibale A., Middleboro, Mass. Construction of concrete ships. No. 1,356,064; Oct. 19; v. 279; p. 410.
Gueritey, Charles, Brooklyn, N. Y. Self-opening container. No. 1,341,505; May 25; v. 274; p. 744.
Gueritey, Charles, assignor to Passaic Metal Ware Company, Passaic, N. J. Dredge or sifter-can. No. 1,357,555; Nov. 2; v. 280; p. 66.
Guerra, Francisco V., Habana, Cuba. Fender for motor-vehicles and the like. No. 1,358,541; Nov. 9; v. 280; p. 322.
Guerra, José V., Santiago de Cuba, Cuba. Telegraph instrument. No. 1,348,717; Aug. 3; v. 277; p. 113.
Guerra y Marreço, V., Calbarien, Cuba. Cultivator. No. 1,358,864; Nov. 16; v. 280; p. 432.
Guerreschi, Eraldo. (See Almagia L., and Guerreschi.)
Guerritore, Orazio, Rome, Italy. Percussion-fuse. No. 1,327,037; Jan. 6; v. 270; p. 30.
Guerritore, Orazio, Rome, Italy. Percussion-fuse. No. 1,357,703; Nov. 2; v. 280; p. 95.
Guerrlich, Frederick C., Stamford, Conn. Internal-combustion engine. No. 1,346,123; July 13; v. 276; p. 219.
Guerrlich, Frederick C., Stamford, Conn. Internal-combustion engine. No. 1,346,124; July 13; v. 276; p. 219.
Guertler, George J., Cincinnati, Ohio. Flytrap. No. 1,353,233; Sept. 21; v. 278; p. 392.
Guett, Monroe, assignor to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Electric switch. No. 1,327,615; Jan. 13; v. 270; p. 199.
Guett, Monroe, assignor to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Electric switch. No. 1,335,106; Mar. 30; v. 272; p. 773.
Guett, Monroe, assignor to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Electric switch. No. 1,339,820; May 11; v. 274; p. 295.
Guett, Monroe, assignor to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Electric switch. No. 1,347,629; July 27; v. 276; p. 632.
Guett, Monroe, assignor to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Electric switch. No. 1,350,725; Aug. 24; v. 277; p. 677.
Guett, Monroe, Hartford, Conn. Making character-plates. No. 1,357,046; Oct. 26; v. 279; p. 650.
Guggenbuehler, Carl, Newark, N. J. Tool for facilitating the positioning of driving-shoes in driving-box bearings of locomotives. No. 1,327,468; Jan. 6; v. 270; p. 109.
Guggenbuehler, Carl, Newark, N. J. Tool for facilitating the casting of hub-liners on bearing-boxes for locomotives or the like. No. 1,344,083; June 22; v. 275; p. 666.
Guggenheimer, Sylvan F., Richmond, Va. Combination tea and coffee pot. No. 1,360,935; Nov. 30; v. 280; p. 949.
Guhl, August C., Chicago, Ill. Collapsible can. No. 1,356,203; Oct. 19; v. 279; p. 438.
Guiberson, Richard. (See Arbon, Paul, assignor.)
Guice, William O., Seattle, Wash. Portable varnish-drying oven. No. 1,352,893; Sept. 14; v. 278; p. 266.
Guilbert, Harry, Provo, Utah. Phonograph. No. 1,342,284; June 1; v. 275; p. 132.
Guild, Waldo J., assignor to Heald Machine Company, Worcester, Mass. Internal grinding-machine. No. 1,361,850; Dec. 14; v. 281; p. 221.
Guillemet, François L., San Francisco, Calif. Aeroplane-undercarriage. No. 1,340,483; May 18; v. 274; p. 477.
Guillet, Victor. (See Mauvillin, E., and Guillet.)
Guinand, Gustavius. Los Angeles, Calif. Valve-spring lifter. No. 1,352,407; Sept. 7; v. 278; p. 132.

Guindon, Joseph S. N., Montreal, Quebec, Canada. Skate. No. 1,334,609; Mar. 23; v. 272; p. 618.
Guinzburg, Edwin A., New York, N. Y. Shoe-tongue pad. No. 1,332,331; Mar. 2; v. 272; p. 29.
Guinzburg, George K., assignor to I. B. Kleinert Rubber Company, New York, N. Y. Bathing-cap. No. 1,363,408; Dec. 28; v. 281; p. 616.
Guinzburg, Victor, assignor to I. B. Kleinert Rubber Company, New York, N. Y. Garment-shield. No. 1,363,727; Dec. 28; v. 281; p. 679.
Gulbransen, Axel G., assignor to Gulbransen-Dickinson Company, Chicago, Ill. Piano-player action. No. 1,349,273; Aug. 10; v. 277; p. 275.
Gulbransen, Axel G., assignor to Gulbransen-Dickinson Co., Chicago, Ill. Bellows construction for player-pianos and the like. No. 1,356,710; Oct. 26; v. 279; p. 584.
Gulbransen-Dickinson Company. (See Gulbransen, Axel G., assignor.)
Guldager, Walter E. (See Jantsch, H., and Guldager.)
Guldaman, Lawrence, Hoboken, N. J. Ash can or the like. No. 1,359,057; Nov. 16; v. 280; p. 468.
Guldbrandsen, Guldbrand, assignor to Streeter Amet Weighing & Recording Company, Chicago, Ill. Weighing-scale. No. 1,362,618; Dec. 21; v. 281; p. 423.
Guide, John, Arlington, Kans. Identification device. No. 1,363,409; Dec. 28; v. 281; p. 616.
Gulf Refining Company. (See Abbott, Lyle S., assignor.)
Gulf Refining Company. (See Bacon, R. F., Brooks, and Clark, assignors.)
Gulf Refining Company. (See Henderson, Herbert, assignor.)
Gulhaug, Albert K., Wolf Point, Mont. Photographic-printing frame. No. 1,363,410; Dec. 28; v. 281; p. 617.
Gulich, Gregor, New York, N. Y. Fire-escape or life-saving tower. No. 1,348,872; Aug. 10; v. 277; p. 195.
Gulick, Charles L. (See Holinger, E. F., and Gulick.)
Gulick, Edward J., assignor to C. G. Conn, Ltd., Elkhart, Ind. Key-mount for wind musical instruments. No. 1,345,486; July 6; v. 276; p. 31.
Gulick, Edward J., assignor to C. G. Conn, Ltd., Elkhart, Ind. Die for making valve-casings for wind-musical-instrument valves. No. 1,345,921; July 6; v. 276; p. 117.
Gulla, John, Wilkes-Barre, Pa. Vegetable-cutter. No. 1,359,362; Nov. 16; v. 280; p. 527.
Gullborg, Arthur V., Chicago, Ill. Lubricating apparatus. No. 1,333,412; Mar. 9; v. 272; p. 285.
Gumm, Gustave J., Superior, Wis. Electric garage-protector. No. 1,336,625; Apr. 13; v. 273; p. 234.
Gullbrandsson, Olof G., assignor to Nordiska Kullager Aktiebolaget, Regulusgatan, Lundby, Gottenborg, Sweden. Ball-cage for ball-bearings. No. 1,362,097; Dec. 14; v. 281; p. 270.
Gumbel, Edward, *et al.* (See Weigel, Philip A., assignor.)
Gumaer, Percy W., Pittsfield, Mass., assignor to General Electric Company. Heat-control system. No. 1,359,889; Nov. 23; v. 280; p. 676.
Gummed Tape Machine Company. (See Mortimer, Charles G., assignor.)
Gumprecht, William L., Hartford, Conn., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,338,012; Apr. 27; v. 273; p. 642.
Gumprecht, William L., Hartford, Conn., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,356,916; Oct. 26; v. 279; p. 624.
Gumula, John. (See Gumula, S. and J.)
Gumula, Stanley, Chicopee, and J. Gumula, Ludlow, Mass. Food-boiler. No. 1,362,862; Dec. 21; v. 281; p. 471.
Gunchick, Frank, Blanchard, Idaho. Combined card-container and table. No. 1,329,080; Jan. 27; v. 270; p. 540.
Gund Manufacturing Company. (See Pieper, Chester R., assignor.)
Gunderson, John E., Foxboro, Wis. Clothespin. No. 1,335,331; Mar. 30; v. 272; p. 814.
Gunderson, Joseph F., Seattle, Wash. Auxiliary lock. No. 1,360,289; Nov. 30; v. 280; p. 824.
Gunderson, Julius, assignor to Bramwell-Ragen Corporation, St. Paul, Minn. Garment-pocket. No. 1,342,168; June 1; v. 275; p. 109.
Gunderson, Lea, Madison, Wis. Penholder. No. 1,334,152; Mar. 16; v. 272; p. 486.
Gunderson, Ole, Schenectady, N. Y. Aeroplane. No. 1,362,292; Dec. 14; v. 281; p. 309.
Gundlach, Edward L., St. Louis, Mo. Clasp. No. 1,345,171; June 29; v. 275; p. 942.
Gundlach, Elizabeth E., Madison, Wis. Mattress. No. 1,351,166; Aug. 31; v. 277; p. 823.
Gundlach, George F., New York, N. Y. Tobacco-pipe. No. 1,359,986; Nov. 23; v. 280; p. 696.
Gunji, Hansuke, *et al.* (See Toda, Tomokichi, assignor.)
Gunn, Charles H., Emeryville, assignor of one-ninth to C. H. Black, one-ninth to F. O. Nebeker, two-ninths to J. C. Newcomb, Oakland, and two-ninths to R. A. Casarotti, Marin county, Calif. Volumetric discharge for oil-tanks. No. 1,330,939; Feb. 17; v. 271; p. 399.
Gunn, Fred W., Dedham, Mass. Hose-clamping tool. No. 1,353,338; Sept. 21; v. 278; p. 412.
Gunn, James G., Cherokee, Iowa. Cargo-handling apparatus. No. 1,351,167; Aug. 31; v. 277; p. 823.

Digitized by Google

Gunn, John C., Liverpool, England. Manufacture of cigarette and other article cases. No. 1,344,506; June 22; v. 275; p. 749.
Gunn, Thomas M., New London, Conn., assignor to Electric Boat Company. Depth-gage. No. 1,338,981; May 4; v. 274; p. 61.
Gunnarson, Frederick, Ogden, Utah. Roller-skate. No. 1,327,549; Jan. 6; v. 270; p. 125.
Gunther, George, Seattle, Wash. Nonskid device for motor-vehicles. No. 1,352,260; Sept. 7; v. 278; p. 105.
Gunther, Joseph W., Stockton, Calif. Spring-wheel. No. 1,361,984; Dec. 14; v. 281; p. 248.
Gunturiz y Santos, Nicolás, assignor of one-half to A. M Caraballo, Sagua la Grande, Santa Clara, Cuba. Juice-extractor. No. 1,345,963; July 6; v. 276; p. 126.
Gurney Scale Company, The. (See Sweet, Charles M., assignor.)
Gurney Scale Company. (See Sweet, Melvin A., assignor.)
Gussi, Arnaldo, Milan, assignor to Giorgio Rabbeno, Leghorn, Italy. Ship. No. 1,363,039; Dec. 21; v. 281; p. 505.
Gustaffson, Art, Moline, Ill. Folding umbrella. No. 1,353,234; Sept. 21; v. 278; p. 392.
Gustafson, Adolph P., assignor to M. Schulz Company, Chicago, Ill. Pneumatic action. No. 1,359,456; Nov. 16; v. 280; p. 546.
Gustafson, August J., Maywood, Ill. Furniture. No. 1,346,955; July 20; v. 276; p. 442.
Gustafson, Carl J., assignor to Hendee Manufacturing Company, Springfield, Mass. Gear-shift-lever lock. No. 1,331,759; Feb. 24; v. 271; p. 572.
Gustafson, Carl J., assignor to Hendee Manufacturing Company, Springfield, Mass. Splash lubricating system for gas-engines. No. 1,337,013; Apr. 13; v. 273; p. 308.
Gustafson, Charles, Instanter, Pa. Broom-holder. No. 1,349,274; Aug. 10; v. 277; p. 275.
Gustafson, George H., Joliet, Ill. Window-sash attachment. No. 1,336,430; Apr. 13; v. 273; p. 197.
Gustafson, John, Duluth, Minn. Vehicle. No. 1,355,063; Oct. 19; v. 279; p. 390.
Gustafsson, Karl G., Pittsburgh, Pa. Gas-burner. No. 1,362,938; Dec. 21; v. 281; p. 485.
Gustaveson, Clarence A., Whitewater, Wis. Nut-lock. No. 1,341,269; May 25; v. 274; p. 698.
Gustin, William M., Hingham, assignor of one-half to E. H. Jennison, Weston, Mass. Cloth-folding apparatus. No. 1,354,294; Sept. 28; v. 278; p. 648.
Gutberlet, Charles, Philadelphia, Pa. Cutting and folding machine. No. 1,337,900; Apr. 20; v. 273; p. 551.
Guth, Jacob, Salem, Ill. Tractor. No. 1,350,451; Aug. 24; v. 277; p. 624.
Guthrie, Edwin. (See Whitten, Wilmot W., assignor.)
Guthrie, Harrie, Chicago, Ill. Demountable rim. No. 1,330,758; Feb. 10; v. 271; p. 295.
Guthrie, James, Cleveland, Ohio, assignor to The Ohio Motor Vehicle Company. Bumper-supporting means. No. 1,350,406; Aug. 24; v. 277; p. 614.
Guthrie, Robert L., Santa Rosa, Calif. Cultivator. No. 1,342,285; June 1; v. 275; p. 132.
Guthrie, Robert L., Santa Rosa, Calif. Cultivator. No. 1,351,643; Aug. 31; v. 277; p. 919.
Guthrie, William, Motherwell, assignor of one-half to D M. Wallace, Dennistoun, Glasgow, Scotland. Motor-tractor. No. 1,335,732; Apr. 6; v. 273; p. 5.
Guthrie, William S., Terrell, Tex. Carbureter. No. 1,328,042; Jan. 13; v. 270; p. 279.
Guthrie, William S., Terrell, Tex. Controlling mechanism for exhaust-gases of internal-combustion engines. No. 1,359,168; Nov. 16; v. 280; p. 488.
Guthrie, William S., Terrell, Tex. Fuel-supply apparatus. No. 1,359,592; Nov. 23; v. 280; p. 618.
Gutmann, Ferdinand, & Company. (See Levey, Thomas J., assignor.)
Gutstein, Joseph, assignor to Hart, Schaffner & Marx, Chicago, Ill. Work-supporting rack for sewing-machines. No. 1,351,244; Aug. 31; v. 277; p. 839.
Guttridge, Joseph H., Youngstown, Ohio. Mechanical toy. No. 1,355,665; Oct. 12; v. 279; p. 291.
Gutzwiller, Herbert, Schönenwerd, Switzerland. Electric internal tube-heater. No. 1,336,559; Apr. 13; v. 273; p. 221.
Gutzwiller, Herbert, Schonenwerd, Switzerland, assignor of one-half to T. Buess, Liestal, Switzerland. Feeding polyphase-current circuits with monophase current. No. 1,347,457; July 20; v. 276; p. 541.
Guttenstein, Joseph, New York, N. Y. Exhaust-gas-actuated cooling device for motor-vehicles. No. 1,362,293; Dec. 14; v. 281; p. 309.
Guy, Albert E., U. S. Army. Applying pressure to the interior of closed vessels. No. 1,329,762; Feb. 3; v. 271; p. 78.
Guy, Charles T., Lisbon, Ohio. Cigarette-case. No. 1,332,827; Mar. 2; v. 272; p. 125.
Guy, Frank, Springfield, Ill. Water-feed appliance for acetylene-lamps. No. 1,356,711; Oct. 26; v. 279; p. 584.
Guy, Frederick M., Jackson, assignor of one-third to L. J. Moeller, Detroit, Mich., and one-third to F. R. Sunderman, New York, N. Y. Internal-combustion engine. No. 1,327,202; Jan. 6; v. 270; p. 60.
Guy, Henry L. (See Baumann, K., Guy, and Winning.)
Guy, Henry L., Manchester, England, assignor to The British Westinghouse Electric and Manufacturing Company Limited. Attachment of moving blades of elastic-fluid turbines. No. 1,347,031; July 20; v. 276; p. 457.
Guy, Henry L., Manchester, England, assignor to The British Westinghouse Electric and Manufacturing Company Limited. Fluid-pressure turbine. No. 1,360,936; Nov. 30; v. 280; p. 949.
Guy, Joseph, Humbermouth, Newfoundland. Strainer for water-supply pipes of locomotives. No. 1,327,708; Jan. 13; v. 270; p. 216.
Guy, Raymond M., Wichita, Kans. Automobile-lock. No. 1,354,102; Sept. 28; v. 278; p. 609.
Guy, Sydney S., Wolverhampton, England. Internal-combustion engine. No. 1,331,911; Feb. 24; v. 271; p. 601.
Guye, Philippe A., Geneva, Switzerland. Recovery of nitrogen oxids. No. 1,331,104; Feb. 17; v. 271; p. 430.
Guye, Philippe A., Geneva, Switzerland. Recovery of nitrous oxids. No. 1,331,105; Feb. 17; v. 271; p. 430.
Guye, Philippe A., Geneva, Switzerland, assignor to Ferdinand, Gros, & Bouchardy, Paris, France. Manufacture of concentrated nitric acid. No. 1,348,873; Aug. 10; v. 277; p. 196.
Guye, Philippe A., Geneva, Switzerland, assignor to Ferdinand, Gros, & Bouchardy, Paris, France. Manufacture of nitric anhydrid. No. 1,348,874; Aug. 10; v. 277; p. 196.
Guyer, Hans., assignor to Aktiengesellschaft der Maschinenfabriken Escher Wyss & Co., Zurich, Switzerland. Ribbed body for heat-interchange devices. No. 1,339,385; May 11; v. 274; p. 211.
Guyer, James, and G. Morales. New York, N. Y. Transmission-gearing. No. 1,337,906; Apr. 20; v. 273; p. 552.
Guyer, Joseph A., Marion, Ind. Electric iron. No. 1,353,471; Sept. 21; v. 278; p. 438.
Guynn, John M., East Newport, Ark. Door-stop. No. 1,352,456; Sept. 14; v. 278; p. 178.
Guyot, Alfred, assignor to Compagnie des Produits Chimiques d'Alais et de la Camargue, Salindres, France. Preparation of acetic aldehyde from acetylene. No. 1,343,715; June 15; v. 275; p. 529.
Guyot, Alfred, Salindres, assignor to Compagnie des Produits Chimiques d'Alais et de la Camargue, Paris, France. Preparation of trichlorethylene from tetrachlorethane. No. 1,343,716; June 15; v. 275; p. 529.
Guyot, Jean N. H. J., Paris, France. Automatic pistol. No. 1,344,884; June 29; v. 275; p. 888.
Guyot-Sionnest, René, Paris, assignor to Societe des Anciens Etablissements Weyher et Richemond, Pantin, France. Reversing-gear for motors with valve-gear worked by cams and levers. No. 1,341,368; May 25; v. 274; p. 718.
Guyot-Sionnest, René, Paris, assignor to Societe des Anciens Etablissements Weyher et Richmond, Pantin, France. Arrangement of reversing-gear for motors with valve-gear worked by cams. No. 1,359,500; Nov. 23; v. 280; p. 599.
Guyot, Walter E., Attleboro, Mass. Buckle. No. 1,360,937; Nov. 30; v. 280; p. 949.
Guzdar, Rustomji J., district of Howrah, Province of Bengal, India. Fountain-pen clip. No. 1,356,204; Oct. 19; v. 279; p. 439.
Gwatkin, B., and V. E. Randall, Battle Creek, and W. E. White, Detroit, Mich. Emergency train-stopping mechanism. No. 1,355,329; Oct. 12; v. 279; p. 227.
Gwatkin, Benjamin. (See Randall, Victor E., assignor.)
Gwin, Walter R., Los Angeles, Calif. Beet-plant-thinning machine. No. 1,331,148; Feb. 17; v. 271; p. 488.
Gwinn, George W., New York, N. Y. Machine for applying stamps, labels, or sealing-strips to containers. No. 1,343,264; June 15; v. 275; p. 440.
Gwizdowski, Joseph, Detroit, Mich. Tufting-machine. No. 1,360,522; Nov. 30; v. 280; p. 869.
Gwyer, Herbert J., Yonkers, N. Y. Refrigerator construction. No. 1,328,324; Jan. 20; v. 270; p. 369.
Gwyer, Herbert J., Yonkers, N. Y. Corner connection for cabinets. No. 1,343,209; June 15; v. 275; p. 430.
Gwyer, Herbert J., Yonkers, N. Y. Refrigerator construction and removable leg. No. 1,345,764; July 6; v. 276 p. 86.
Gwyer, Willett H. J., Yonkers, N. Y. Multiple drill. No. 1,340,953; May 25; v. 274; p. 637.
Gwynn, Susie E. (See Gwynn, William A., assignor.)
Gwynn, William A., assignor to S. E. Gwynn, St. Louis, Mo. Vulcanizer. No. 1,336,220; Apr. 6; v. 273; p. 97.
Gwynn, William A., assignor to S. E. Gwynn, St. Louis, Mo. Spark-plug. No. 1,336,221; Apr. 6; v. 273; p. 97.
Gwynn, William A., assignor, by mesne assignments, to King-Bee Spark Plug Company, St. Louis, Mo. Spark-plug. No. 14,957; Oct. 12; v. 279; p. 318.
Gynan, Edgar N. (See Morrill, L. A., and Gynan.)
Gynn, Hattie E. (See Reed, Lemon M., assignor.)
Gynn, Hattie E., Cleveland Heights, Ohio. Spring-seat. No. 1,355,225; Oct. 12; v. 279; p. 207.
Gyp Steel Products Company. (See Shuman, Cleo G., assignor.)
Gyllsdorff, Torston A., Detroit, Mich. Reamer. No. 1,334,898; Mar. 23; v. 272; p. 673.
Gyrocopter Limited. (See Berliner, Emile, assignor.)
Gyton, Thomas H., Collingwood, Victoria, Australia. Nonskid protector. No. 1,347,368; July 20; v. 276; p. 523.

Digitized by Google

Alphabetical list of patentees—Continued.

H. & F. Match Machine Corporation. (See Hutchinson, W. B., and Friede, assignors.)
H. & F. Match Machine Corporation. (See Lispenard, George, assignor.)
H. & H. Patent Developing Company. (See Hebern, Edward H., assignor.)
H. I. S. Motor Corporation. (See Sawyer, Howard I., assignor.)
H-K Toy & Novelty Co., The. (See McDaniel, Walter O., assignor.)
H-P Company, The. (See Place, Roland P., assignor.)
Haag Cabinet Company. (See Howard, Emmett M., assignor.)

Haag, Philip, Brooklyn, N. Y. Attachment for shoes. No. 1,346,019; July 6; v. 276; p. 137.
Haag, Sofia, Fort Sheridan, Ill. Hand-loom. No. 1,335,163; Mar. 30; v. 272; p. 783.
Haahr, Anton A., Copenhagen, Denmark, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Heel-pricking machine. No. 1,338,013; Apr. 27; v. 273; p. 642.
Haapanen, Henry W., Telluride, Colo. Brake attachment for automobiles. No. 1,350,726; Aug. 24; v. 277; p. 677.
Haase, Arnold, San Francisco, Calif. Foundry practice. No. 1,353,472; Sept. 21; v. 278; p. 438.
Haas, Charles, Brooklyn, N. Y. Time-measuring device. No. 1,337,014; Apr. 13; v. 273; p. 309.
Haas, Daniel A., Belleville, Ill. Shock-holder. No. 1,343,624; June 15; v. 275; p. 510.
Haas, Edward. (See Ferguson and Haas.)
Haas, Ferdinand G., St. Paul, Minn. Piston. No. 1,332,213; Mar. 2; v. 272; p. 7.
Haas, Geo., & Sons. (See Haas, Walter A., assignor.)
Haas, Leon S. (See Cary, Samuel S., assignor.)
Haas, Louis A. F., assignor to Société Anonyme L'Air Liquide, Paris, France. Blue sulfur dye and manufacturing same. No. 1,329,898; Feb. 3; v. 271; p. 104.
Haas, Nelson R., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Electric regulator. No. 1,344,689; June 29; v. 275; p. 850.
Haas, Paul C., Mendon, Mich. Truck-hoist. No. 1,340,893; May 25; v. 274; p. 625.
Haas, Philip, Dayton, Ohio. Hydraulically-operated flushing-valve mechanism. No. 1,331,706; Feb. 24; v. 271; p. 562.
Haas, Philip, Dayton, Ohio. Hydraulically-operated valve mechanism. No. 1,331,707; Feb. 24; v. 271; p. 562.
Haas, Victor E., assignor of one-half to S. E. Starr, Toledo, Ohio. Carbureter. No. 1,342,107; June 1; v. 275; p. 97.
Haas, Walter A., assignor to Geo. Haas & Sons, San Francisco, Calif. Package for ice-cream. No. 1,343,391; June 15; v. 275; p. 465.
Haas, William H. (See Roome, C., and Haas.)
Haase, Jorgen S., Camden, and S. M. Langston, Wenonah, assignors to Samuel M. Langston Company, Camden, N. J. Cut-off mechanism. No. 1,359,058; Nov. 16; v. 280; p. 468.
Habbart, John, Prairie du Chien, Wis. Grain and hay stacker. No. 1,346,020; July 6; v. 276; p. 137.
Haberman, Charles, North Bergen, assignor to Oscar Schmidt, Inc., Jersey City, N. J. Playing device for stringed musical instruments. No. 1,346,707; July 13; v. 276; p. 334.
Haberman, Zeno C., Garden City, S. D. Fabric-measuring machine. No. 1,356,446; Oct. 19; v. 279; p. 485.
Hachmann, Frederick, St. Louis, assignor of one-half to D. M. Hutchinson, Ferguson, Mo. Hose-mender. No. 1,329,121; Jan. 27; v. 270; p. 548.
Hachmann, Frederick, St. Louis, assignor of one-eighth to D. M. Hutchinson, Ferguson, Mo. Washer for hose-couplings. No. 1,329,398; Feb. 3; v. 271; p. 10.
Hachmann, Frederick, St. Louis, assignor of one-eighth to D. M. Hutchinson, Ferguson, Mo. Hose-coupling. No. 1,354,480; Oct. 5; v. 279; p. 7.
Hachmann, Frederick, St. Louis, assignor of one-eighth to D. M. Hutchinson, Ferguson, Mo. Hose-mender. No. 1,358,633; Nov. 9; v. 280; p. 340.
Hachmann, Frederick, assignor to O. Reinert, St. Louis, Mo. Vegetable-cutter. No. 1,331,497; Feb. 24; v. 271; p. 523.
Hachmann, Frederick, assignor, by mesne assignments, to National Metal Die Mold Company, St. Louis, Mo. Casting-mold. No. 1,334,029; Mar. 16; v. 272; p. 463.
Hachmann, Frederick, assignor, by mesne assignments, to National Metal Die Mold Company, St. Louis, Mo. Casting-mold. No. 1,334,030; Mar. 16; v. 272; p. 464.
Hachmann, Frederick, assignor, by mesne assignments, to National Metal Die Mold Company, St. Louis, Mo. Casting-mold. No. 1,356,714; Oct. 26; v. 279; p. 585.
Hachmann, Frederick, assignor, by mesne assignments, to National Metal Die Mold Company, St. Louis, Mo. Casting-mold. No. 1,356,715; Oct. 26; v. 279; p. 585.
Hachmann, Frederick, assignor of one-half to H. C. Stifel, St. Louis, and one-eighth to D. M. Hutchinson, Ferguson, Mo. Journal-bearing. No. 1,332,895; Mar. 2; v. 272; p. 43.
Hachmann, Frederick, assignor of one-fourth to J. A. Dowdall and one-fourth to B. Greensfelder, and one-half to National Metal Die Mold Company, St. Louis, Mo. Casting-mold. No. 1,356,712; Oct. 26; v. 279; p. 584.
Hachmann, Frederick, assignor of one-fourth to J. A. Dowdall and one-fourth to B. Greensfelder, and one-half to National Metal Die Mold Company, St. Louis, Mo. Casting method. No. 1,356,713; Oct. 26; v. 279; p. 584.
Hachmann, Frederick, St. Louis, assignor of one-half to D. M. Hutchinson, Ferguson, Mo., one-sixteenth to M. G. Price, Effingham, Ill., one-sixteenth to C. R. Watson, and one-sixteenth to P. E. Moody, Detroit, Mich. Spark-plug. No. 1,341,614; May 25; v. 274; p. 765.
Hachmann, Frederick, assignor of one-half to H. C. Stifel, St. Louis, one-eighth to D. M. Hutchinson, Ferguson, Mo., one-sixteenth to P. E. Moody, one-sixteenth to C. R. Watson, and one-sixteenth to H. A. Wright, Detroit, Mich. Piston-ring. No. 1,342,380; June 1; v. 275; p. 149.
Hachmann, Frederick, assignor of one-half to H. Stiefel, St. Louis, one-eighth to D. M. Hutchinson, Ferguson, Mo., one-sixteenth to P. E. Moody, one-sixteenth to C. R. Watson, and one-sixteenth to H. A. Wright, Detroit, Mich. Piston-ring. No. 1,348,640; Aug. 3; v. 277; p. 99.
Hachmann, Frederick, assignor of one-half to H. Stiefel, St. Louis, one-eighth to D. M. Hutchinson, Ferguson, Mo., one-sixteenth to P. E. Moody, one-sixteenth to C. R. Watson, and one-sixteenth to H. A. Wright, Detroit, Mich. Piston-ring. No. 1,348,641; Aug. 3; v. 279; p. 99.
Hachmann, Frederick, assignor of one-half to H. Stifel, St. Louis, Mo., one-sixteenth to P. E. Moody and one-sixteenth to C. R. Watson, Detroit, Mich., one-eighth to D. M. Hutchinson, Ferguson, Mo., and one-sixteenth to H. A. Wright, Detroit, Mich. Piston. No. 1,353,041; Sept. 14; v. 278; p. 294.
Hachmann, Frederick, St. Louis, Mo., assignor of one-sixteenth to C. R. Watson, one-sixteenth to P. E. Moody, and one-sixteenth to E. E. Fraser, Detroit, Mich., and three-eighths to D. M. Hutchinson, Ferguson, and one-fourth to H. C. Stifel, St. Louis, Mo. Spark-plug. No. 1,357,975; Nov. 9; v. 280; p. 209.
Hachmann, Frederick, St. Louis, assignor of three-eighths to D. M. Hutchinson, Ferguson, Mo., one-sixteenth to C. R. Watson, one-sixteenth to P. E. Moody, one-sixteenth to E. E. Fraser, Detroit, Mich., and one-fourth to H. C. Stifel, St. Louis, Mo. Spark-plug. No. 1,361,326; Dec. 7; v. 281; p. 69.
Hachmann, Frederick, St. Louis, assignor of three-eighths to D. M. Hutchinson, Ferguson, Mo., one-sixteenth to C. R. Watson, one-sixteenth to P. E. Moody, one-sixteenth to E. E. Fraser, Detroit, Mich., and one-fourth to H. C. Stifel, St. Louis, Mo. Spark-plug. No. 1,361,327; Dec. 7; v. 281; p. 69.
Hachmann, Frederick, and E. Wilson, St. Louis, Mo., assignors of one-sixteenth to C. R. Watson, one-sixteenth to P. E. Moody, Detroit, Mich., seven-twenty-fourths to D. M. Hutchinson, Ferguson, and one-fourth to H. C. Stifel, St. Louis, Mo. Spark-plug. No. 1,361,328; Dec. 7; v. 281; p. 69.
Hack, Frank W., Chicago, Ill. Reamer. No. 1,347,740; July 27; v. 276; p. 654.
Hackendahl, John B., Beechview, Pa. Stamping device. No. 1,333,487; Mar. 9; v. 272; p. 300.
Hackett, Charles H., assignor to W. W. Marsh, Waterloo, Iowa. Liner for centrifugal cream-separators. No. 1,328,084; Jan. 13; v. 270; p. 287.
Hackett, James K., New York, N. Y. Display device. No. 1,344,084; June 22; v. 275; p. 666.
Hackett, Paul J., assignor to Universal High-Power Telephone Co., Seattle, Wash. Signaling-circuit. No. 1,347,849; July 27; v. 276; p. 676.
Hackett, Paul J., assignor to Universal High-Power Telephone Co., Seattle, Wash. Despatcher's telephone apparatus. No. 1,347,850; July 27; v. 276; p. 676.
Hackfield, Arnold W., Welcome, Tex. Collapsible tent. No. 1,335,332; Mar. 30; v. 272; p. 815.
Hacking, Edward, Central Falls, R. I. Electric storage battery. No. 1,362,294; Dec. 14; v. 281; p. 309.
Hacking, Edward, Central Falls, R. I. Electrolyte for electric storage batteries. No. 1,362,295; Dec. 14; v. 281; p. 309.
Hackleman, William H., Appleton, Wis. Gear-cutting attachment. No. 1,329,175; Jan. 27; v. 270; p. 558.
Hackman, Amandes, Allentown, Pa. Bed-rest. No. 1,336,294; Apr. 6; v. 273; p. 111.
Hadaway, John B. (See Loring, Waldo F., assignor.)
Hadaway, John B., Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Welt-shoe and counter therefor. No. 1,337,219; Apr. 20; v. 273; p. 422.
Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Staple-wire. No. 1,357,319; Nov. 2; v. 280; p. 23.
Hadaway, William S., Jr., New Rochelle, N. Y. Electric broiler. No. 1,345,004; June 29; v. 275; p. 910.
Hadaway, William S., Jr., New Rochelle, N. Y. Heating apparatus. No. 1,349,130; Aug. 10; v. 277; p. 245.

Digitized by Google

Hadaway, William S., Jr., New Rochelle, N. Y. Heating apparatus. No. 1,349,131; Aug. 10; v. 277; p. 246.
Hadaway, William S., Jr., New Rochelle, N. Y. Heating apparatus. No. 1,356,818; Oct. 26; v. 279; p. 605.
Hadcock, Albert G., and G. Forster, assignors to Sir W. G. Armstrong, Whitworth and Company, Limited, Newcastle-upon-Tyne, England. Automatic gun. No. 1,360,523; Nov. 30; v. 280; p. 869.
Hadcock, James, and W. H. Naylor, Leeds, England. Labeling and like machine. No. 1,332,625; Mar. 2; v. 272; p. 86.
Haddock, Charles C., Beverly, Mass. Aeronautical apparatus. No. 1,349,336; Aug. 10; v. 277; p. 287.
Haddon, Virgil M., Omaha, Nebr. Dumping-truck. No. 1,359,363; Nov. 16; v. 280; p. 527.
Haddon, Walter. (See Constantinesco, Gogu, assignor.)
Haddow, George. (See Grant, H. L., and Haddow.)
Haddow, George, Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del. Blasting-machine. No. 1,363,585; Dec. 28; v. 281; p. 651.
Haden, Anton, Clay Center, Kans. Horseshoe. No. 1,347,630; July 27; v. 276; p. 632.
Haden, Elbridge G., Charlottesville, Va. Artificial limb. No. 1,347,947; July 27; v. 276; p. 695.
Hadfield, Robert A., Westminster, England. Manufacture of manganese-steel sheets. No. 1,344,392; June 22; v. 275; p. 726.
Hadfield, Robert A., Westminster, England. Manufacture of steel. No. 1,347,741; July 27; v. 276; p. 655.
Hadfield, Robert A., Westminster, England. Manufacture of shells. No. 1,357,705; Nov. 2; v. 280; p. 95.
Hadfield, Robert A., Westminster, and A. G. McK. J. Brincliffe, Sheffield, England. Manufacture of armor-piercing projectiles, shells, and other hollow bodies. No. 1,358,199; Nov. 9; v. 280; p. 253.
Hadfield, Robert A., Westminster, England. Manufacture of alloy steel. No. 1,362,788; Dec. 21; v. 281; p. 457.
Hadfield, Robert A., Westminster, A. G. M. Jack, Brincliffe, I. B. Milne, Totley, and E. Morse, Sheffield, England. Manufacture of caps for armor-piercing projectiles. No. 1,363,467; Dec. 28; v. 281; p. 628.
Hadinger, Ignaz, Pottsville, Pa. Wheel-lock. No. 1,351,644; Aug. 31; v. 277; p. 919.
Hadjisky, Joseph N. (See Heideman and Hadjisky.)
Hadley, Arthur L., Fort Wayne, Ind., assignor to General Electric Company. Operation of arc-lamps. No. 1,334,854; Mar. 23; v. 272; p. 665.
Hadley, Charles R., Company. (See Hadley, Charles R., assignor.)
Hadley, Charles R., assignor to Charles R. Hadley Company, Los Angeles, Calif. Extension-cover loose-leaf binder. No. 1,331,912; Feb. 24; v. 271; p. 602.
Hadley, Edwin J. (See Power, Nicholas, assignor.)
Hadley, Edwin J., Newark, N. J. Moving-picture machine. No. 1,334,450; Mar. 23; v. 272; p. 588.
Hadley, L. G. (See Allison, Jesse H., assignor.)
Hadrich, George, Highland Park, assignor of one-third to T. C. Betzoldt and one-third to M. W. Benjamin, Detroit, Mich. Spark-plug. No. 1,345,765; July 6; v. 216; p. 86.
Haeberlein, Max, Mountain Lakes, N. J. Fly-ball governor. No. 1,352,189; Sept. 7; v. 278; p. 91.
Haefele, John F., Bridgeport, Conn. Machine for carding safety-pins. No. 1,347,851; July 27; v. 276; p. 676.
Haefely, Emil, Basel, Switzerland. Winding-machine for the manufacture of hollow insulating-cylinders for electrotechnical purposes. No. 1,328,792; Jan. 20; v. 270; p. 456.
Haefliger, Herman, North Platte, Nebr. Balance-pivot straightener. No. 1,347,155; July 20; v. 276; p. 481
Haege, Louis, New Memphis, Ill. Animal-trap. No. 1,355,831; Oct. 19; v. 279; p. 364.
Haensler, Henry F., Detroit, Mich. Tool-support. No. 1,341,848; June 1; v. 275; p. 47.
Haerle, Hans. (See Reavell, W., and Haerle.)
Haeseler, Paul, assignor to The Liberty Laboratories, Inc., New York, N. Y. Producing and purifying sulfuric acid. No. 1,341,462; May 25; v. 274; p. 736.
Haessly, Stephen B., Faribault, Minn. Internal-combustion engine. No. 1,327,384; Jan. 6; v. 270; p. 94.
Haevers, Philebert A., Green Bay, Wis. Silo. No. 1,331,195; Feb. 17; v. 271; p. 446.
Hafelfinger, Emil F., Weehawken, N. J. String-tensioner for violins. No. 1,361,049; Dec. 7; v. 281; p. 14.
Hafer, Edward C., assignor to James A. Hafer, Chambersburg, Pa. Molding-jacket. No. 1,363,865; Dec. 28; v. 281; p. 706.
Hafer, James A. (See Hafer, Edward C., assignor.)
Hafner, Charles A. D., Des Moines, Iowa. Fishpole-support. No. 1,352,663; Sept. 14; v. 278; p. 219.
Hafner, Edward P., and J. T. Roberts, St. Louis, Mo. Tire-peeling machine. No. 1,329,239; Jan. 27; v. 270; p. 570.
Hagadone, Clinton A. (See Benjamin and Hagadone.)
Hagadone, Clinton A., Western Springs, Ill., assignor, by mesne assignments, to International Harvester Company. Corn-harvester. No. 1,328,668; Jan. 20; v. 270; p. 443.
Hagan Corporation, The. (See Hopwood, John M., assignor.)
Hagan, George J. Company. (See Costello, Thomas J., assignor.) (Reissue.)
Hagan, George J., Company, The. (See Talley, Randal E., assignor.)
Hagan, George J., Pittsburgh, Pa. Furnace. No. 1,362,297; Dec. 14; v. 281; p. 309.
Hagan, George J., Pittsburgh, and J. M. Hopwood, Dormont, Pa. Heating-furnace. No. 1,362,296; Dec. 14; v. 281; p. 309.
Hagan, Percy D., Uniontown, Pa. Sock. No. 1,330,315; Feb. 10; v. 271; p. 212.
Hagele, Bernard, Springfield, Ill. Labeling-machine. No. 1,330,261; Feb. 10; v. 271; p. 203.
Hagelstein, Christian H. T., assignor to The Reece Button Hole Machine Company, Boston, Mass. Button-attaching machine. No. 1,329,399; Feb. 3; v. 271; p. 10.
Hagelstein, William, New York, N. Y. Clip. No. 1,357,233; Nov. 2; v. 280; p. 7.
Hagemeyer, Henry F., assignor, by mesne assignments, to J. N. Willys, Toledo, Ohio. Vial machine. No. 1,335,733; Apr. 6; v. 273; p. 6.
Hagen, Lars J., Portland, Oreg. Ship construction. No. 1,353,235; Sept. 21; v. 278; p. 392.
Hagen, Robert. (See Dunstan, Wayne E., assignor.)
Hagenau, Henry. (See Smith, Theodore M., assignor.)
Hagenbuch, Walter, Martinez, Calif. Fireplace. No. 1,350,495; Aug. 24; v. 277; p. 632.
Hager, William R., assignor to Troy Laundry Machinery Co., Ltd., Chicago, Ill. Method of and apparatus for supplying heated liquids. No. 1,345,924; July 6; v. 276; p. 118.
Hagerstrom, John A., assignor to Victor Typewriter Company, Scranton, Pa. Main-shaft drive. No. 1,352,124; Sept. 7; v. 278; p. 79.
Hagerstrom, John A., assignor to Victor Typewriter Company, Scranton, Pa. Line-spacing mechanism. No. 1,359,501; Nov. 23; v. 280; p. 599.
Hagerstrom, John A., assignor to Victor Typewriter Company, Scranton, Pa. Ribbon-reverse mechanism. No. 1,362,098; Dec. 14; v. 281; p. 270.
Hagey, James C., assignor to The Cable Company, Chicago, Ill. Device for controlling air-pressure. No. 1,359,668; Nov. 23; v. 280; p. 638.
Haggarty, William F., Philadelphia, Pa. Safety-razor. No. 1,357,863; Nov. 2; v. 280; p. 127.
Haggerty, Patrick F., New York, N. Y. Stopping-out machine for electrotypers. No. 1,348,492; Aug. 3; v. 277; p. 70.
Haggin Estate, Inc. (See Kendall, Edward D., assignor.)
Haggott, Warren A., trustee. (See Wingett, John N., assignor.)
Hagino, Shigekichi, Koishikawa Ku, Tokyo, Japan. Fluid for treating tobacco-leaves or leaves of like plants. No. 1,334,752; Mar. 23; v. 272; p. 645.
Haglund, George W. (See Adix, A. W., and Haglund.)
Haglund, Otto E., Medina, N. D. Motor-vehicle propelling attachment. No. 1,354,103; Sept. 28; v. 278; p. 610.
Hagmaier, Harry C., assignor to United States Products Company, Pittsburgh, Pa. Bearing-fitting compound. No. 1,361,719; Dec. 7; v. 281; p. 148.
Hagmaier, William G., West Allis, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Sawshifter. No. 1,344,203; June 22; v. 275; p. 689.
Hagstrom, Carl J., Glen Cove, N. Y. Casement-adjuster. No. 1,344,507; June 22; v. 275; p. 750.
Hagstrom, Carl J., Glen Cove, N. Y. Antirattle-catch. No. 1,344,508; June 22; v. 275; p. 750.
Hagstrom, Curt W., Wilmette, Ill. Foldable bathtub. No. 1,327,866; Jan. 13; v. 270; p. 245.
Hague, Alfred G., assignor to H. R. Straight, Adel, Iowa. Off-bearing mechanism for tile-cutters. No. 1,361,985; Dec. 14; v. 281; p. 248.
Hague, Clifford P., Hartford, Conn. Vapor croup-kettle. No. 1,327,550; Jan. 6; v. 270; p. 125.
Hahlo, Charles, Manchester, England. Hat and sweatband or leather to be used therefor. No. 1,359,502; Nov. 23; v. 280; p. 600.
Hahm, George H., Kane, Pa. Glass-flattening apparatus. No. 1,331,916; Feb. 24; v. 271; p. 602.
Hahn, George F., New York, N. Y. Perpetual-calendar device. No. 1,334,031; Mar. 16; v. 272; p. 464.
Hahn, George F., New York, N. Y. Pen and pencil clip. No. 1,347,090; July 20; v. 276; p. 469.
Hahn, Herman J., Napoleon, Ohio. Stalk-raiser. No. 1,344,761; June 29; v. 275; p. 865.
Hahn, Hugo J., Chicago, Ill. Wrench. No. 1,361,050; Dec. 7; v. 281; p. 14.
Hahn, Louis C., Cincinnati, Ohio. Drafting device. No. 1,328,871; Jan. 27; v. 270; p. 501.
Hahn, Lowell R., and O. L. Miller, Kokomo, Ind. Backwater stop or valve. No. 1,348,993; Aug. 10; v. 277; p. 219.
Hahn, William, Toledo, Ohio. Cigarette-holder. No. 1,355,666; Oct. 12; v. 279; p. 292.
Hahn, William J., Philadelphia, Pa. Ruler. No. 1,343,968; June 22; v. 275; p. 644.
Hahne, Dale D., Hastings, Nebr. Leveling attachment for cameras. No. 1,341,553; May 25; v. 274; p. 753.
Hahnemann, Walter, Kitzeberg, near Kiel, Germany. Membranous or diaphragm transmitter for submarine sound-signals. No. 1,331,149; Feb. 17; v. 271; p. 488.

Digitized by Google

Alphabetical list of patentees—Continued.

Hahnemann, Walter, Kitzeberg, near Kiel, assignor to Firma Signal Gesellschaft m. b. H., Kiel, Germany. Sending device for subaqueous-current-line telegraphy. No. 1,331,640; Feb. 24; v. 271; p. 550.
Haiden, Richard. (See Van Brocklen, M. E., and Haiden.)
Haig, Paul, Chicago, Ill. Blast-furnace. No. 1,335,494; Mar. 30; v. 272; p. 844.
Haight, Everest D., New York, N. Y., assignor to E. Z Waist Co., Bennington, Vt. Undergarment. No. 1,359,802; Nov. 23; v. 280; p. 659.
Haight, Harry V., Sherbrooke, Quebec, Canada, assignor to Ingersoll-Rand Company, Jersey City, N. J. Throttle-valve for percussive tools. No. 1,350,407; Aug. 24; v. 277; p. 614.
Haight, Harry W., Princeton, N. J. Printed book. No. 1,340,713; May 18; v. 274; p. 521.
Haight, Reuben, Hudson, N. Y. Folding beds. No. 1,339,650; May 11; v. 274; p. 263.
Haight, Theodore, Brooklyn, assignor to Plant Engineering & Equipment Co., Inc., New York, N. Y. Steam-trap. No. 1,333,413; Mar. 9; v. 272; p. 286.
Hain, Albert J., Lakewood, Ohio. Preparing printing-plates. No. 1,346,885; July 20; v. 276; p. 428.
Haines, George B., Chicago, Ill. Fire-extinguisher and the like. No. 1,335,682; Mar. 30; v. 272; p. 880.
Haines, George B., Chicago, Ill. Fire-extinguisher and the like. No. 1,337,130; Apr. 13; v. 273; p. 830.
Haines, Henry, Oakland, Calif. Vault and sidewalk light. No. 1,361,720; Dec. 7; v. 281; p. 149.
Haines, Henry C., Geneseo, Ill. Gate. No. 1,334,998; Mar. 30; v. 272; p. 752.
Haines, Jones & Cadbury. (See Sharp, Joseph W., Jr., assignor.)
Haines, Jones & Cadbury Incorporated. (See Sharp, Joseph W., Jr., assignor.)
Haines, Joseph, Lawton, Mich. Planter. No. 1,354,039; Sept. 28; v. 278; p. 596.
Haines, William B., Sunbury, Pa. Spot-light for automobiles. No. 1,339,954; May 11; v. 274; p. 320.
Haines, William D., Haddonfield, N. J. Furrowing-machine. No. 1,333,845; Mar. 16; v. 272; p. 428.
Hainsey, Robert, Altoona, Pa. Fountain-paintbrush. No. 1,342,211; June 1; v. 275; p. 118.
Hainsey, Robert, Altoona, Pa. Painting apparatus. No. 1,342,212; June 1; v. 275; p. 118.
Hainsworth, Arthur F., Leeds, England. Crane. No. 1,328,793; Jan. 20; v. 270; p. 456.
Hair, Isaac M., Spartanburg, S. C. Artificial tooth. No. 1,333,804; Mar. 16; v. 272; p. 421.
Haire, Robert E., Paris, Ontario, Canada. Wall construction and process. No. 1,355,667; Oct. 12; v. 279; p. 292.
Haiss, George, New York, N. Y. Wagon-loader. No. 1,345,172; June 29; v. 275; p. 943.
Haist, Oscar W. (See Stott, F. R. L., and Shierk, assignors.)
Hajek, Joseph, Carnegie, Pa. Sound-modifying means for phonographs. No. 1,356,983; Oct. 26; v. 279; p. 637.
Hakanson, Alfred, Brooklyn, assignor to Chatham Die Casting Co., Inc., New York, N. Y. Die-casting machine. No. 1,338,622; Apr. 27; v. 273; p. 756.
Hake, George, St. Louis, Mo. Garment-supporter. No. 1,337,131; Apr. 13; v. 273; p. 331.
Hake, George, St. Louis, Mo. Garment-supporting clasp. No. 1,362,298; Dec. 14; v. 281; p. 310.
Hake, Richard C., and A. V. Vissata, St. Louis, Mo. Headlight-controlling mechanism for automobiles. No. 1,331,913; Feb. 24; v. 271; p. 602.
Hakes, Hudson W., Millbury, Mass. Automatically-threading shuttle. No. 1,327,709; Jan. 13; v. 270; p. 216.
Halbach, William M., Zurich, Switzerland. Means for use in fitting shoes. No. 1,338,623; Apr. 27; v. 273; p. 756.
Halbleib, Edward A., assignor to North East Electric Company, Rochester, N. Y. Machine for forming armature-coils. No. 1,330,317; Feb. 10; v. 271; p. 218.
Halbow, Gustav, Brooklyn, N. Y. Water-skate. No. 1,344,225; June 22; v. 275; p. 693.
Halbritter, John, assignor to Walworth Manufacturing Company, Boston, Mass. Wrench. No. 1,358,078; Nov. 9; v. 280; p. 230.
Haldeman, Bertrand C. (See Sieben, H., and Haldeman.)
Haldeman, Frederick, Canton, Ohio. Window-lock. No. 1,337,513; Apr. 20; v. 273; p. 477.
Haldeman, James C., assignor to The Silver Manufacturing Company, Salem, Ohio. Arm-binder and elevating control-shaft lock. No. 1,328,429; Jan. 20; v. 270; p. 388.
Haldeman, James C., assignor to The Silver Manufacturing Company, Salem, Ohio. Safety-nut. No. 1,336,955; Apr. 13; v. 273; p. 297.
Haldeman, John J., Sunbury, Pa. Polishing-machine. No. 1,359,364; Nov. 16; v. 280; p. 527.
Halder, George, Milwaukee, Wis. Artificial bait. No. 1,345,173; June 29; v. 275; p. 943.
Hale, Alfred L., Williamston, Mich. Concrete-mixer. No. 1,341,316; May 25; v. 274; p. 707.
Hale, Charles B., Park Ridge, Ill., assignor to Time Systems Co., Detroit, Mich. Pressure-gage. No. 1,330,466; Feb. 10; v. 271; p. 241.
Hale, Charles B., Park Ridge, Ill., assignor to Time Systems Company, Detroit, Mich. Pneumatic secondary clock. No. 1,335,053; Mar. 30; v. 272; p. 762.
Hale, David E., Kansas City, Mo., and J. E. McCormick, Kansas City, Kans. Tool for brickmasons. No. 1,342,439; June 8; v. 275; p. 215.
Hale, Frank A., assignor to Hale Specialty Company, Chicago, Ill. Holder for pad-calendars. No. 1,353,832; Sept. 28; v. 278; p. 554.
Hale, Frank R., Hartford, Conn. Shipping-crate. No. 1,350,496. Aug. 24; v. 277; p. 632.
Hale, Henry J. (See Davies, J., Jones, and Hale.)
Hale & Kilburn Corporation. (See Stubblebine, Raymond F., assignor.)
Hale, Perry T. W., Portland, assignor to M. C. Hillery, Hartford, Conn. Toy aeroplane. No. 1,346,956; July 20; v. 276; p. 442.
Hale Specialty Company. (See Hale, Frank A., assignor.)
Hales, Wiley J., Houston, assignor of one-half to F. E. Groschke, Harris county, Tex. Nut-locking device. No. 1,336,077; Apr. 6; v. 273; p. 71.
Haley, Charles, Royal Oak, Mich. Machinists' gage. No. 1,334,999; Mar. 30; v. 272; p. 752.
Haley, Dennis F., Wallace, Idaho, assignor to Metallurgical Company of America, New York, N. Y. Oil-flotation process and apparatus. No. 1,357,556; Nov. 2; v. 280; p. 66.
Haley, George S., Dubuque, Iowa, assignor to H. Mueller Manufacturing Co., Decatur, Ill. Tapping-machine. No. 1,353,833; Sept. 28; v. 278; p. 554.
Haley, Reuben, Beaver, assignor to United States Glass Company, Pittsburgh, Pa. Easel picture-frame. No. 1,338,441; Apr. 27; v. 273; p. 722.
Haley, Robert E. (See Van Vleet, C. W., and Haley.)
Halftime Cooker Company. (See Waggoner, Jacob E., assignor.)
Halgren, Gustav N., Bayonne, N. J. Crack and sag proof corner-strip. No. 1,329,899; Feb. 3; v. 271; p. 104.
Hall, A. J., and C. C. Whittaker, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,352,448; Sept. 14; v. 278; p. 176.
Hall, Albert N., Oak Park, Ill. Toy constructing material. No. 1,336,626; Apr. 13; v. 273; p. 284.
Hall, Alfred G., New Brunswick, N. J. Shoe-lace holder. No. 1,331,914; Feb. 24; v. 271; p. 602.
Hall, Arthur J., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,336,560; Apr. 13; v. 273; p. 221.
Hall, Arthur J., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,349,375; Aug. 10; v. 277; p. 295.
Hall, Arthur J., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. No. 1,352,447; Sept. 14; v. 278; p. 176.
Hall Borchert Dress Form Company. (See Granger, Frank B., assignor.)
Hall, Burton P., Fanwood, N. J. Atomizer or sprayer. No. 1,357,432; Nov. 2; v. 280; p. 48.
Hall, C. M., Lamp Company. (See Allen, Claude E., assignor.)
Hall, Charles J., Rosalia, Wash. Tractor-hitch. No. 1,341,170; May 25; v. 274; p. 679.
Hall, Charles S., assignor to The Whitehead & Hoag Company, Newark, N. J. Tool for removing bottle-caps. No. 1,355,330; Oct. 12; v. 279; p. 228.
Hall, Charles V., assignor of one-tenth to J. E. Leonard, Los Angeles, Calif. Motion-picture-projecting apparatus. No. 1,356,140; Oct. 19; v. 279; p. 426.
Hall, Charles W., Keystone, W. Va. Sand-drier. No. 1,337,220; Apr. 20; v. 273; p. 422.
Hall, Chester I., Fort Wayne, Ind., assignor to General Electric Company. Demand-indicator. No. 1,331,059; Feb. 17; v. 271; p. 422.
Hall, Chester I., Fort Wayne, Ind., assignor to General Electric Company. Demand apparatus. No. 1,331,915; Feb. 24; v. 271; p. 602.
Hall, Chester I., Fort Wayne, Ind., assignor to General Electric Company. Thermostatic-valve unit. No. 1,337,907; Apr. 20; v. 273; p. 552.
Hall, Chester I., Fort Wayne, Ind., assignor to General Electric Company. Thermostatic regulator. No. 1,347,329; July 20; v. 276; p. 516.
Hall, Chris S., and F. D. Smith, Dyersburg, Tenn. Soldering-iron holder. No. 1,333,616; Mar. 16; v. 272; p. 385.
Hall, Clarence F., Atlanta, Ga. Traction attachment. No. 1,354,826; Oct. 5; v. 279; p. 76.
Hall, Claud D. (See Lee, R., and Hiatt, assignors.)
Hall, Earl F., Denver, Colo. Reinforced well-tubing. No. 1,330,316; Feb. 10; v. 271; p. 213.
Hall, Edward, Laurium, Mich. Conduit-cleaner. No. 1,338,917; May 4; v. 274; p. 49.
Hall, Edward L., New York, N. Y. Fire-extinguisher. No. 1,326,927; Jan. 6; v. 270; p. 8.
Hall, Edward T., *et al.* (See Hall, James L., assignor.)
Hall, Edwin H. (See Mohler, James V., assignor.)
Hall, Elbert J., Berkeley, Calif. Propeller-mounting. No. 1,349,758; Aug. 17; v. 277; p. 443.
Hall, Everett E. (See Merrell, C. F., and Hall.)
Hall, Francis C., Washington, D. C. Combination article of furniture. No. 1,330,373; Feb. 10; v. 271; p. 224.
Hall, Francis C., Washington, D. C. Hanger. No. 1,343,363; June 15; v. 275; p. 459.

Digitized by Google

Hall, Frank H., Yonkers, N. Y. Toy. No. 1,349,337; Aug. 10; v. 277; p. 287.
Hall, Fred G., *et al.* (See Baird, Clifford J., assignor.)
Hall, Frederick H., Claverdon, England. Vehicle-top. No. 1,345,174; June 29; v. 275; p. 943.
Hall, George F., assignor to E. W. Kaiser, Newark, N. J. Whistle. No. 1,327,323; Jan. 6; v. 270; p. 82.
Hall, George L., Washington, D. C. Time-controlled circuit-controller. No. 1,362,299; Dec. 14; v. 281; p. 310.
Hall, George S., Chico, Calif. Apparatus for radiator-repairing. No. 1,350,866; Aug. 24; v. 277; p. 703.
Hall, Harold A., San Jose, Calif. Cylinder for internal-combustion engines. (Reissue.) No. 14,869; June 1; v. 275; p. 156.
Hall, Harry, Manton, Mich. Track-laying machine. No. 1,345,175; June 29; v. 275; p. 943.
Hall, Harry M., Willcox, Ariz. Pump. No. 1,358,891; Sept. 21; v. 278; p. 422.
Hall, Holmes. (See Kelly, James G., assignor.)
Hall, Hugh A., Philadelphia, Pa. Automatic restaurant and vending mechanism therefor. No. 1,353,996; Sept. 28; v. 278; p. 587.
Hall, Isaac F., Dayton, Ohio. Light-support. No. 1,330,528; Feb. 10; v. 271; p. 253.
Hall, James H., Mountain Grove, Mo. Trap. No. 1,349,453; Aug. 10; v. 277; p. 310.
Hall, James H., Rupert, Idaho. Pipe-wrench. No. 1,355,470; Oct. 12; v. 279; p. 254.
Hall, James H., Rupert, Idaho, and W. B. Hamilton, Delta, Utah. Oil-can. No. 1,340,954; May 25; v. 274; p. 637.
Hall, James L., Beaumont, assignor of one per cent. to V. O. Holland, Clay, one per cent. to O. Hunt, Somerville, Tex., and two per cent. to E. T. Hall, Atlanta, Ga. Cuff-link. No. 1,350,222; Aug. 17; v. 277; p. 532.
Hall, James T., Waco, Tex. Truck. No. 1,341,171; May 25; v. 274; p. 679.
Hall, John A., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Calling device. No. 1,337,314; Apr. 20; v. 273; p. 440.
Hall, John A., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,360,738; Nov. 30; v. 280; p. 912.
Hall, John T., Hacienda, Tex. Folding cot. No. 1,334,091; Mar. 16; v. 272; p. 475.
Hall, Joseph M. (See Sherman, F. A., and Hall.)
Hall, Leon W. (See Heath and Hall.)
Hall, Louis J., assignor to Columbian Bronze Corporation, Freeport, N. Y. Lifting-jack. No. 1,339,926; May 11; v. 274; p. 315.
Hall, Nelson, assignor of one-half to A. Cant, Detroit, Mich. Gear reduction and lock for steering apparatus. No. 1,339,454; May 11; v. 274; p. 225.
Hall, Peter P-G., Philadelphia, Pa. Metal-working machine. No. 1,343,503; June 15; v. 275; p. 486.
Hall Printing Press Company. (See White, J., and Eckhard, assignors.)
Hall Printing Press Company. (See White, Joseph, assignor.)
Hall, Rob R. M., Iditarod, Alaska. Cabinet for phonographs and talking-machines. No. 1,358,542; Nov. 9; v. 280; p. 322.
Hall, Robert T., East Liverpool, Ohio. Manufacture of clay mugs, &c. No. 1,344,885; June 29; v. 275; p. 888.
Hall, Roy D. (See Myers, R. E., and Hall.)
Hall, Rupert E., Chicago, Ill. Dental articulator. No. 1,338,918; May 4; v. 274; p. 49.
Hall, Rupert E., Philadelphia, Pa. Artificial teeth. No. 1,339,821; May 11; v. 274; p. 295.
Hall, Samuel J., Jacksonville, Tex. Piston-ring. No. 1,360,939; Nov. 30; v. 280; p. 950.
Hall, Samuel N., Memphis, Tenn. Pipe-wrench. No. 1,333,251; Mar. 9; v. 272; p. 256.
Hall, Selden H., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Bowl-spindle bushing for centrifugal machines. No. 1,362,619; Dec. 21; v. 281; p. 423.
Hall, Seth T., and C. H. Crowley, Boone, Iowa. Engine-head-removing device. No. 1,358,679; Nov. 9; v. 280; p. 350.
Hall, Spencer F., assignor of one-half to W. C. Palmer, Racine, Wis. Tool and tool-holder. No. 1,361,851; Dec. 14; v. 281; p. 221.
Hall, Stewart E., assignor of one-half to W. G. Moser, Akron, Ohio. Tire and rim. No. 1,333,915; Mar. 16; v. 272; p. 421.
Hall, Stewart E., Akron, assignor of one-third to E. R. Sloan, Maumee, and one-third to E. H. Workinger, Akron, Ohio. Battery-box-forming machine. No. 1,353,389; Sept. 21; v. 278; p. 412.
Hall Switch & Signal Co. (See Blake, Eli J., assignor.) (Reissue.)
Hall Switch & Signal Co. (See Field, Oscar S., assignor.)
Hall Switch & Signal Co. (See Taylor, Herbert B., assignor.)
Half, Thomas, Harrisburg, Pa. Fluid-pressure motor. No. 1,352,743; Sept. 14; v. 278; p. 235.
Hall, Thomas E., Ottumwa, Iowa. Spark-plug. No. 1,362,300; Dec. 14; v. 281; p. 310.
Hall, William B., Chicago, Ill., assignor to Union Railway Equipment Co. Railway-car. No. 1,327,095; Jan. 6; v. 270; p. 41.
Hall, William E. (See La Rue, William E., assignor.)
Hall, William G. (See Beyer, H. E., and Hall.)
Hall, William P. (See La Rue, Willis E., assignor.)
Hall, William P., Cedar Falls, N. C. Match-scratcher. No. 1,347,948; July 27; v. 276; p. 695.
Hall, William R. D., Narberth, Pa., assignor to S. Feather Company. Spinning artificial-silk waste. No. 1,340,044; May 11; v. 274; p. 337.
Halladay, Lewis P., Streator, Ill. Support for automobile-bumpers. No. 1,344,796; June 29; v. 275; p. 871.
Halladay, Lewis P., Streator, Ill. Clamp for automobile-bumpers. No. 1,344,797; June 29; v. 275; p. 872.
Halladay, Lewis P., Streator, Ill. Support for automobile-bumpers. No. 1,344,798; June 29; v. 275; p. 872.
Halladay, Lewis P., Streator, Ill. Automobile-bumper support. No. 1,344,799; June 29; v. 275; p. 872.
Halladay, Lewis P., Streator, Ill. Truss-spring bumper-bar. No. 1,362,620; Dec. 21; v. 281; p. 424.
Halladay, Lewis P., Streator, Ill. Bumper-bracket. No. 1,363,780; Dec. 28; v. 281; p. 689.
Hallam, Frank. (See Hanstine, Harry S., assignor.)
Hallam, John W., Chicago, Ill. Bracket. No. 1,330,262; Feb. 10; v. 271; p. 208.
Hallander, Erik P., Spånga, near Stockholm, Sweden. Ball and roller bearing. No. 1,358,634; Nov. 9; v. 280; p. 341.
Hallbom, Algot C., New York, N. Y. Mechanical oiling device. No. 1,361,458; Dec. 7; v. 281; p. 97.
Hallborg, Henry E., Norfolk, Va. Self-cooled impact spark-gap. No. 1,330,182; Feb. 10; v. 271; p. 188.
Hallem, William R., *et al.* (See Gothner, John, assignor.)
Hallen, Swan E., Vancouver, British Columbia, Canada. Vehicle-signal. No. 1,350,969; Aug. 24; v. 277; p. 723.
Haller, Frederick C., Wilkinsburg, Pa. Baking-oven. No. 1,359,247; Nov. 16; v. 280; p. 504.
Haller, Frederick C., Pittsburgh, Pa. Apparatus for baking bread. No. 1,363,781; Dec. 28; v. 281; p. 689.
Haller, Hans K., Copenhagen, Denmark. Transport system for postage and other goods. No. 1,327,952; Jan. 13; v. 270; p. 261.
Hallett, Fred N., Seattle, Wash. Moving-picture camera. No. 1,363,249; Dec. 28; v. 281; p. 587.
Halley, John R., Nashville, Iowa. Coin and stamp box. No. 1,353,585; Sept. 21; v. 278; p. 461.
Halliday, Louis B., Cincinnati, Ohio. Automobile-lock. No. 1,350,497; Aug. 24; v. 277; p. 633.
Halliday, William B., Los Angeles, Calif. Washing-machine. No. 1,338,442; Apr. 27; v. 273; p. 722.
Halligan Candy Company. (See Doellinger, Herman G., assignor.)
Hallinan, Thomas, Paterson, N. J. Electrical toy gun. No. 1,343,127; June 8; v. 275; p. 351.
Hallman, Charles M., Wyomissing, assignor to Wyomissing Glazed Paper Company, West Reading, Pa. Paper-glazing machine. No. 1,357,234; Nov. 2; v. 280; p. 7.
Hallner, Andrew, Arboga, Calif. Vehicle-spring. No. 1,344,204; June 22; v. 275; p. 689.
Hallner, Andrew, Arboga, Calif. Load-indicator. No. 1,350,498; Aug. 24; v. 277; p. 633.
Hallock, Fletcher D., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical system. No. 1,348,943; Aug. 10; v. 277; p. 209.
Hallock, William I., Lone Pine, Calif. Accelerator. No. 1,334,654; Mar. 23; v. 272; p. 626.
Halloway, William M., Maywood, Ill., assignor to American Can Company, New York, N. Y. Talking-machine. No. 1,349,759; Aug. 17; v. 277; p. 443.
Hallowell, Andrew H. (See Clay, W. L., and Hallowell.)
Halpern, Carl. (See Zeidler, F. W., and Halpern.)
Halpern, Carl, Newark, and F. W. Zeidler, Jersey City, N. J. Toy-actuating air-motor. No. 1,357,706; Nov. 2; v. 280; p. 95.
Halpin, Frank, *et al.* (See Burch, Willie, assignor.)
Halseth, Henry E., Virginia, Minn. Penholder. No. 1,348,410; Aug. 3; v. 277; p. 55.
Halsey, James T., deceased, S. M. M. Halsey, Philadelphia, Pa., administratrix. Brake. No. 1,348,106; July 27; v. 276; p. 727.
Halsey, Norman W., New York, N. Y., assignor, by mesne assignments, to Crescent Washing Machine Company, Incorporated. Spraying-nozzle. No. 1,362,099; Dec. 14; v. 281; p. 271.
Halsey, Sue M. M., administratrix. (See Halsey, James T.)
Halstead, Frederick H., assignor to Rivett Lathe and Grinder Company, Boston, Mass. Lathe-tool. No. 1,342,745; June 8; v. 275; p. 274.
Halstead, Frederick H., assignor to Rivett Lathe and Grinder Company, Boston, Mass. Lathe-tool. No. 1,342,746; June 8; v. 275; p. 274.
Halstead, Robert E., Los Angeles, Calif. Violin-tailpiece. No. 1,339,196; May 4; v. 274; p. 101.
Halstead, Stanley M. (See Vaughan, P. E., and Halstead.)
Halter, William, Cleveland, Ohio. Combination socket and adapter. No. 1,336,431; Apr. 13; v. 273; p. 197.
Halterman, John W., Willows, Calif. Mechanical razor. No. 1,332,553; Mar. 2; v. 272; p. 73.
Halton, William. (See Power, Henry, assignor.)
Halvorsen, Birger F. (See Foss, A., and Halvorsen.)

Digitized by Google

Alphabetical list of patentees—Continued.

Halvorsen, Birger F., Christiania, Norway. Production of alumina. No. 1,333,020; Mar. 9; v. 272; p. 213.
Halvorsen, Ole, San Francisco, Calif. Bottle-holder. No. 1,338,652; Apr. 27; v. 273; p. 761.
Halvorsen, Severin, assignor to The Newspaper Stuffing Machines Company, Seattle, Wash. Newspaper-feeding device. No. 1,361,986; Dec. 14; v. 281; p. 248.
Halverson, Christian, Seattle, Wash. Device for babbitting pulleys. No. 1,343,128; June 8; v. 275; p. 351.
Halverson, Harmon. (See Shadel, H. A., and Halverson.)
Halverson, Lars B., Sioux Falls, S. D. Posting-tray. No. 1,346,886; July 20; v. 276; p. 429.
Halverson, Otto N. (See Johnson, M. R., and Halverson.)
Ham, Albert W., Troy, N. Y. Trolley mechanism. No. 1,358,439; Nov. 9; v. 280; p. 302.
Ham, Albert W., Troy, N. Y. Trolley mechanism. No. 1,358,440; Nov. 9; v. 280; p. 303.
Ham, Thomas H., Albany, N. Y. Brake mechanism. No. 1,335,495; Mar. 30; v. 272; p. 844.
Ham, William D., Chicago, Ill. Concrete-road-building machine. No. 1,345,925; July 6; v. 276; p. 118.
Ham, William R., State College, Pa. Telescope. No. 1,339,386; May 11; v. 274; p. 212.
Hamachek, Frank, Kewaunee, Wis. Pea-huller. No. 1,340,607; May 18; v. 274; p. 501.
Hamachek, Frank, Kewaunee, Wis. Supporting-bracket for pea-hullers. No. 1,357,047; Oct. 26; v. 279; p. 650.
Hamachek, Frank, Kewaunee, Wis. Green-pea-vine-hulling machine. No. 1,361,051; Dec. 7; v. 281; p. 14.
Hamaker, M. R. (See Gardner, William R., assignor.)
Hamaker, Rudolph F., and W. H. Virgin, New Orleans, La. Interchangeable air-brush. No. 1,333,488; Mar. 9; v. 272; p. 300.
Hamann, William, Irondequoit, N. Y., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Burnishing-machine. No. 1,355,471; Oct. 12; v. 279; p. 254.
Hamburger, Aron, and W. E. L. Day, assignors to Holam, Limited, London, England. Apparatus for making multicolor films for cinematography. No. 1,332,828; Mar. 2; v. 272; p. 125.
Hamburger, Mark. (See Hamilton, E. M., and Hamburger.)
Hamburger, Mark, Baltimore, Md. Link cushion-tire. No. 1,335,496; Mar. 30; v. 272; p. 845.
Hamby, Benjamin R., Crum Creek, Okla. Pipe-coupling. No. 1,351,645; Aug. 31; v. 277; p. 919.
Hamel, Joseph O., Smith's Falls, Ontario, Canada. Self-propelled vehicle. No. 1,342,440; June 8; v. 275; p. 215.
Hamel Shoe Machinery Company. (See Angell, Otis R., assignor.)
Hamel Shoes Machinery Company. (See Elliasson, William A., assigner.)
Hamel Shoe Machinery Company. (See Laughton, R. E., and Barnes, assignors.)
Hamel Shoe Machinery Company. (See Mackey, Jay A., assignor.)
Hamel Shoe Machinery Company. (See Perkins, James O., assignor.)
Hamel Shoe Machinery Company. (See Pettengill, George M., assignor.)
Hamel Shoe Machinery Company. (See Reardon, Fred A., assignor.)
Hamel Shoe Machinery Company. (See Valois, Felix E., assignor.)
Hamer, John H., Warsaw, Ohio. Shock-absorber. No. 1,352,955; Sept. 14; v. 278; p. 277.
Hamer, Samuel H., assignor of one-half to G. S. Stark, Bellingham, Wash. Receiver attachment for telephones. No. 1,333,805; Mar. 16; v. 272; p. 421.
Hamiel & Mather. (See Hostler, Edgar D., assignor.)
Hamil, John, New York, N. Y. Surfacing. No. 1,361,763; Dec. 7; v. 281; p. 157.
Hamill, Charles C., Randsburg, Calif. Ore-feeder. No. 1,343,868; June 15; v. 275; p. 560.
Hamill, James, Lambertville, N. J., assignor to Asbestos Protected Metal Company, Pittsburgh, Pa. Apparatus for producing protected metal sheets having perforated fibrous layers. No. 1,347,852; July 27; v. 276; p. 677.
Hamilton, Alexander C., Pontiac, assignor to General Motors Corporation, Detroit, Mich. Radiator for motor-vehicles. No. 1,352,190; Sept. 7; v. 278; p. 91.
Hamilton, Arthur, Harrisburg, Ark. Stump-sawing machine. No. 1,330,940; Feb. 17; v. 271; p. 399.
Hamilton, Asbury, Brooklyn, N. Y. Mop. No. 1,333,021; Mar. 9; v. 272; p. 213.
Hamilton, Asbury, Brooklyn, N. Y. Mop or brush. No. 1,339,026; May 4; v. 274; p. 70.
Hamilton-Beach Mfg. Co. (See Flegel, Harrison D., assignor.)
Hamilton, Carroll C., Ontario, Calif. Agricultural implement. No. 1,341,231; May 25; v. 274; p. 691.
Hamilton, Clayton R. (See Hamilton, Herbert E., and C. R.)
Hamilton, Clayton R., Panora, Iowa. Self-feeder for swine. No. 1,346,784; July 13; v. 276; p. 350.
Hamilton, Clifford C. (See Hutchinson and Hamilton.)
Hamilton, Clifford C., and J. Hutchinson, Gull Lake, Saskatchewan, Canada. Grease-cup. No. 1,336,135; Apr. 6; v. 273; p. 82.
Hamilton, Douglas D., Seattle, Wash. Auto-bed. No. 1,356,141; Oct. 19; v. 279; p. 426.
Hamilton, Eddie H., Washington, D. C. Pulley-plate. No. 1,346,747; July 13; v. 276; p. 342.
Hamilton, Eddie H., Washington, D. C. Plate-fastening device. No. 1,350,223; Aug. 17; v. 277; p. 532.
Hamilton, Edward H., Midvale, Utah. Ore-reducing process and furnace. No. 1,362,570; Dec. 14; v. 281; p. 362.
Hamilton, Edward J., Baltimore, Md. Necktie-holder. No. 1,332,829; Mar. 2; v. 272; p. 125.
Hamilton, Edward L., McCrory, Ark. Display-rack. No. 1,359,987; Nov. 23; v. 280; p. 696.
Hamilton, Edward M., and M. Hamburger, Baltimore, Md. Garage. No. 1,340,045; May 11; v. 274; p. 337.
Hamilton, Frank, Burlington, Okla. Self feeding and pitching machine. No. 1,351,381; Aug. 31; v. 277; p. 868.
Hamilton, George M. (See Tygard, H. L., and Hamilton.)
Hamilton, George W., Chicago, Ill. Trolley. No. 1,359,503; Nov. 23; v. 280; p. 600.
Hamilton, H. E., and C. R., Yale, Iowa. Stock-feeding device. No. 1,352,513; Sept. 14; v. 278; p. 189.
Hamilton & Hansell. (See Herlenius, Jonas, assignor.)
Hamilton, Harold L., Fargo, N. D. Sand-separating apparatus. No. 1,350,154; Aug. 17; v. 277; p. 519.
Hamilton, Harry D., Winthrop, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Packaging articles. No. 1,330,864; Feb. 17; v. 271; p. 383.
Hamilton, James B., assignor of one-half to J. C. Farr, Hoboken, N. J. Insulating splice-cover. No. 1,354,905; Oct. 5; v. 279; p. 91.
Hamilton, James C., Arlington Heights, Mass. Pencil. No. 1,327,038; Jan. 6; v. 270; p. 80.
Hamilton, James W., Wichita, Kans. Oil-burner. No. 1,351,208; Aug. 31; v. 277; p. 832.
Hamilton, Jesse L., Terre Haute, Ind. Car-coupling. No. 1,335,683; Mar. 30; v. 272; p. 880.
Hamilton, Jesse W., Oakland, Calif. Automobile-headlight. No. 1,362,530; Dec. 14; v. 281; p. 355.
Hamilton, John E., Harrow, England. Electrically-driven luggage-trucks. No. 1,361,987; Dec. 14; v. 281; p. 249.
Hamilton, John H., Brockton, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for working uppers over lasts. No. 1,358,149; Nov. 9; v. 280; p. 243.
Hamilton, John R., Yonkers, assignor to Automatic Sprinkler Company of America, New York, N. Y. Watermotor. No. 1,327,953; Jan. 13; v. 270; p. 261.
Hamilton, John R., Yonkers, assignor to Sypho-Chemical Sprinkler Corporation, Croton-on-Hudson, N. Y. Chemical fire-extinguishing apparatus and control device therefor. No. 1,343,364; June 15; v. 275; p. 459.
Hamilton, John R., Yonkers, assignor to Automatic Sprinkler Company of America, New York, N. Y. Motor-gong. No. 1,343,365; June 15; v. 275; p. 460.
Hamilton, John V., Jr., Fort Scott, Kans. Toy. No. 1,334,241; Mar. 16; v. 272; p. 502.
Hamilton, Karl M., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Car end frame. No. 1,355,331; Oct. 12; v. 279; p. 228.
Hamilton Machine Tool Company, The. (See Baerbalck, Hans, assignor.)
Hamilton, Paul H., Cleveland, Ohio. Pressure-actuated mechanism for operating valves or the like. No. 1,362,991; Dec. 21; v. 281; p. 496.
Hamilton, Paul H., assignor to Esda Manufacturing Company, New York, N. Y. Gas-burner for water-heaters. No. 1,354,295; Sept. 28; v. 278; p. 648.
Hamilton, Robert, and E. J. Reimel, Birmingham, Ala. Drag-car. No. 1,345,439; July 6; v. 276; p. 22.
Hamilton, Robert R., La Harpe, Ill. Attachment for tobacco-cans. No. 1,329,595; Feb. 3; v. 271; p. 47.
Hamilton, Thomas H., New York, N. Y. Floating dry-dock. No. 1,335,497; Mar. 30; v. 272; p. 845.
Hamilton, Thomas S., assignor of one-half to W. E. Merrill, Kansas City, Mo. Lubricating-strip for leaf-springs. (Reissue.) No. 14,870. June 1; v. 275; p. 156.
Hamilton, Walter L., Holyoke, Mass., assignor to General Electric Company. Motor-control system. No. 1,362,301; Dec. 14; v. 281; p. 310.
Hamilton, Wesley M., Tampa, Fla. Water-heating attachment. No. 1,333,110; Mar. 9; v. 272; p. 229.
Hamilton, Wilbur F., *et al.* (See Eckenroth, Philip, assignor.)
Hamilton, William, St. John, New Brunswick, Canada. Tire. No. 1,361,721; Dec. 7; v. 281; p. 149.
Hamilton, William B. (See Hall, J. H., and Hamilton.)
Hamilton, William F., Ventura, Calif. Corn-header. No. 1,334,933; Mar. 23; v. 272; p. 681.
Hamilton, William F., Ventura, Calif. Shoe for threshing-machine teeth. No. 1,341,230; May 25; v. 274; p. 691.
Hamilton, William F., Ventura, Calif. Corn-header. No. 1,343,884; June 15; v. 275; p. 563.
Hamilton, William W., Philadelphia, Pa. Oil-heater. No. 1,362,789; Dec. 21; v. 281; p. 457.
Hamlin, Horace P., Montclair, N. J., assignor to Raymond Concrete Pile Company. Reinforced-concrete trestle. No. 1,341,270; May 25; v. 274; p. 698.
Hamlin, John H., New York, N. Y. Vegetable-peeler. No. 1,347,091; July 20; v. 276; p. 469.
Hamlyn, George A. (See Weizmann and Hamlyn.)

Digitized by Google

Hamm, George H., Athens, N. Y. Calking-tool. No. 1,336,295; Apr. 6; v. 273; p. 111.
Hamm, William, Belleville, Ill. Belt-pulley. No. 1,356,917; Oct. 26; v. 279; p. 625.
Hamm, William S., Hubbard Woods, Ill., assignor to The Adams & Westlake Co. Padlock. No. 1,335,231; Mar. 30; v. 272; p. 795.
Hamm, William S., assignor to The Adams & Westlake Company, Hubbard Woods, Ill. Sash-latch. No. 1,353,834; Sept. 28; v. 278; p. 554.
Hamm, William S., Hubbard Woods, and F. A. Scheutz, Chicago, Ill., assignors to The Adams & Westlake Co. Lantern-burner. No. 1,341,122; May 25; v. 274; p. 670.
Hammar, Harry. (See Brynge, H., and Hammer.)
Hamme, Lee F. (See Harris, W. T., and Hamme.)
Hammen, John J., Spencer, Iowa. Trenching-machine. No. 1,343,081; June 8; v. 275; p. 341.
Hammer, Arthur, Berlin, and F. Egersdörfer, Berlin-Charlottenburg, Germany; said Egersdörfer assignor to said Hammer. Machine for marking linen and the like. No. 1,337,650; Apr. 20; v. 273; p. 503.
Hammer, Charles, Queens, assignor to American Metal Cap Company, Brooklyn, N. Y. Bottle-closure. No. 1,328,280; Jan. 20; v. 270; p. 360.
Hammer, Charles, assignor to American Metal Cap Company, Brooklyn, N. Y. Metal cap. No. 1,335,054; Mar. 30; v. 272; p. 763.
Hammer, Charles, Queens, assignor to American Metal Cap Company, Brooklyn, N. Y. Sheet-metal receptacle. No. 1,335,232; Mar. 30; v. 272; p. 795.
Hammer, Charles, Queens, assignor to American Metal Cap Company, Brooklyn, N. Y. Band-receptacle closure. No. 1,335,233; Mar. 30; v. 272; p. 796.
Hammer, Charles, Queens, assignor to American Metal Cap Company, Brooklyn, N. Y. Bottle-closure. No. 1,345,363; July 6; v. 276; p. 7.
Hammer, Charles, Queens, assignor to American Metal Cap Company, Brooklyn, N. Y. Band catsup-cap. No. 1,353,801; Sept. 21; v. 278; p. 504.
Hammer, Edward M., Diboll, Tex. Hose-reel. No. 1,350,499; Aug. 24; v. 277; p. 633.
Hammer, Isaac, New York, N. Y. Door-lock. No. 1,362,417; Dec. 14; v. 281; p. 332.
Hammer, Louis, Olds, Alberta, Canada. Auto pull-out. No. 1,343,625; June 15; v. 275; p. 511.
Hammer, Sam. (See Postal, D., and Hammer.)
Hammer, Willie A., Eufaula, Okla. Combined grinder and shaker. No. 1,327,385; Jan. 6; v. 270; p. 94.
Hammerly, Fred V. (See Blanchard, George N., assignor.)
Hammerly, Richard, New York, N. Y. Piston-ring adjuster. No. 1,336,222; Apr. 6; v. 273; p. 98.
Hammermann, Fred, New York, N. Y. Anchor-bolt. No. 1,353,159; Sept. 21; v. 278; p. 377.
Hammerstein, Emma S., executrix. (See Hammerstein, O.)
Hammerstein, Emma S., executrix. (See Hammerstein, Oscar.)
Hammerstein, Oscar, deceased; S. Hammerstein, executrix, New York, N. Y. Suspenders. No. 1,360,200; Nov. 30; v. 280; p. 824.
Hammerstein, Oscar, deceased, New York, N. Y.; E. S. Hammerstein, executrix, assignor to Oscar Hammerstein's Tobacco Stripping Machine Co., Inc. Process and apparatus for stripping tobacco-leaf. No. 1,338,768; May 4; v. 274; p. 22.
Hammerstein's, Oscar, Tobacco Stripping Machine Co. Inc. (See Hammerstein, Oscar, assignor.)
Hammerstrom, Arthur, Deerfield, N. H. Sled-brake. No. 1,329,047; Jan. 27; v. 270; p. 534.
Hammitt, Marvin L., assignor of one-half to A. B. Larson, Carbonite, Idaho. Collar-button. No. 1,335,164; Mar. 30; v. 272; p. 784.
Hammon, Carl F., Hartford, Conn. Safety-razor. No. 1,344,447; June 22; v. 275; p. 738.
Hammon, James H., Vincennes, Ind. Spectacle-lens. No. 1,354,040; Sept. 28; v. 278; p. 596.
Hammond, Alfred W. (See Griswold, R. H., and Hammond.)
Hammond, Amil, Boone, Iowa. Device for use in truing connecting-rods. No. 1,333,172; Mar. 9; v. 272; p. 241.
Hammond, Benjamin R., Beloit, assignor to M. E. Rasmussen, Janesville, Wis. Lubricating device. No. 1,356,918; Oct. 26; v. 279; p. 625.
Hammond, Charles. (See Seller, William, assignor.)
Hammond, Edward V., Balham, London, England. Motorcycle. No. 1,339,387; May 11; v. 274; p. 212.
Hammond, Elmer H. (See Hathaway, L. N., Twombly, and Hammond.)
Hammond, Frank S., New York, N. Y. Internal-combustion engine. No. 1,349,952; Aug. 17; v. 277; p. 479.
Hammond, George W., Morocco, Ind. Cultivator. No. 1,334,855; Mar. 23; v. 272; p. 665.
Hammond, Grant, New Haven, Conn., assignor of one-third to A. C. Washburne, Pittsfield, and one-third to F. G. Crane, Dalton, Mass. Magazine for firearms. No. 1,348,172; Aug. 3; v. 277; p. 8.
Hammond, Grant, New Haven, Conn., assignor of one-third to Alva C. Washburne, Pittsfield, and one-third to Frederick G. Crane, Dalton, Mass. Firearm. No. 1,359,365; Nov. 16; v. 280; p. 527.
Hammond, Grant, New Haven, Conn., assignor of one-third to Alva C. Washburne, Pittsfield, and one-third to Frederick G. Crane, Dalton, Mass. Breech-bolt stop. No. 1,359,366; Nov. 16; v. 280; p. 528.
Hammond, Grant, New Haven, Conn., assignor of one-third to A. C. Washburne, Pittsfield, and one-third to F. G. Crane, Dalton, Mass. Firearm. No. 1,363,040; Dec. 21; v. 281; p. 506.
Hammond, Grant, New Haven, Conn., assignor of one-third to A. C. Washburne, Pittsfield, and one-third to F. G. Crane, Dalton, Mass. Breech-bolt lock for firearms. No. 1,363,041; Dec. 21; v. 281; p. 506.
Hammond, Harry F., South Shaftsbury, Vt. Headlight for automobiles. No. 1,357,775; Nov. 2; v. 280; p. 109.
Hammond Harry L. (See Busby, Charles C., assignor.)
Hammond, James. (See Hammond, Winslow A. and J.)
Hammond, John H., Jr., Gloucester, Mass. System of ether-wave control. No. 1,339,927; May 11; v. 274; p. 315.
Hammond, John H., Jr., Gloucester, Mass. Emergency launching system for torpedoes. No. 1,347,092; July 20; v. 276; p. 469.
Hammond, John H., Jr., Gloucester, Mass. Radiotelegraphy. No. 1,350,801; Aug. 24; v. 277; p. 691.
Hammond, John H., Jr., Gloucester, Mass. Visible guide for vessels. No. 1,357,076; Nov. 9; v. 280; p. 209.
Hammond, Laurens, Detroit, Mich. Method and apparatus for indicating heat. No. 1,345,767; July 6; v. 276; p. 86.
Hammond, Le Roy C. (See Bell, George A., assignor.)
Hammond, Mary M., Kansas City, Mo. Tray mechanism. No. 1,351,209; Aug. 31; v. 277; p. 832.
Hammond, Metta, administratrix. (See Hammond, Winslow A., and J.)
Hammond, William P. (See Horton, B. D., and Hammond.) (Reissue.)
Hammond, William P., Passaic, N. J., and E. Q. Moses, New York, N. Y. Illuminated sign. No. 1,346,493; July 13; v. 276; p. 292.
Hammond, William P., Passaic, N. J., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Pressure-gage and pump connection. No. 1,330,759; Feb. 10; v. 271; p. 296.
Hammond, William P., Passaic, N. J., assignor to A. Schrader's Son, Incorporated, New York, N. Y. Dust-cap for valves of pneumatic tires. No. 1,331,060; Feb. 17; v. 271; p. 422.
Hammond, William P., Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Cut-sole rack. No. 1,348,173; Aug. 3; v. 277; p. 8.
Hammond, William P., Passaic, N. J., and L. W. Luellen, Mountain Lakes, N. J., assignors, by mesne assignments, to Individual Drinking Cup Company, Inc. Dispensing device. No. 1,337,838; Apr. 20; v. 273; p. 539.
Hammond, Winslow A., deceased, and J. Hammond, Randolph, Nebr.; M. Hammond, administratrix. Film-developing device. No. 1,347,032; July 20; v. 276; p. 457.
Hammonds, Laurens, Detroit, Mich. Clock. No. 1,345,766; July 6; v. 276; p. 86.
Hammons, Samuel A., Leesville, La. Rail-joint. No. 1,348,107; July 27; v. 276; p. 727.
Hammontree, Charles O., and V. A. Nelson, Bremerton, Wash. Piston ring remover and inserter. No. 1,337,600; Apr. 20; v. 273; p. 494.
Hamp, Godfred. (See Dalke, Edward C., assignor.)
Hampson, Donald A., assignor to Morgans & Wilcox Mfg. Company, Middletown, N. Y. Printer's furniture. No. 1,336,223; Apr. 6; v. 273; p. 98.
Hampson, William H., Belmont, Mass. Pipe-coupling. No. 1,360,633; Nov. 30; v. 280; p. 891.
Hampton, Charles T., Des Moines, Iowa. Splicing a tube and product thereof. No. 1,342,441; June 8; v. 275; p. 215.
Hampton, Durward B., Napa, Calif. Ladder-step support. No. 1,344,886; June 29; v. 275; p. 888.
Hampton Electric and Machine Company. (See Welch, Lon L., assignor.)
Hampton, Frederic W., Indianapolis, Ind. Marine mine. No. 1,343,969; June 22; v. 275; p. 644.
Hampton, James, Southampton, assignor of one-half to John I. Thornycroft and Company Limited, London, England. Means for holding and releasing depth charges, mines, and the like on boats or ships. No. 1,353,652; Sept. 21; v. 278; p. 476.
Hampton, William C., North Manchester, Ind. Air-compressor. No. 1,344,509; June 22; v. 275; p. 750.
Hamrick, Martin D., assignor of one-half to A. E. Young, Chehalis, Wash. Draft-hook. No. 1,347,369; July 20; v. 276; p. 524.
Hamrock, Louis F. (See Murar, M. S., and Hamrock.)
Hamwi, Ernest A., St. Louis, Mo. Apparatus for making pastry forms. No. 1,342,045; June 1; v. 275; p. 85.
Hanau, Carl S., deceased; D. G. Hanau, executrix, New York, N. Y. Table-elevating device for paper-feeding machines. No. 1,334,367; Mar. 23; v. 272; p. 572.
Hanau, Carl S., deceased; D. G. Hanau, executrix, New York, N. Y. Paper-feeding machine. No. 1,334,451; Mar. 23; v. 272; p. 588.
Hanau, Dorothy G., executrix. (See Hanau, Carl S.)

Digitized by Google

Alphabetical list of patentees—Continued.

Hanauer, Michael, Tolland, Mass. Machine for stirring maple-sugar. No. 1,341,443; June 1; v. 275; p. 26.
Hanauer, Michael, Tolland, Mass. Sap-spout and cover. No. 1,347,270; July 20; v. 276; p. 504.
Hanch, Charles C., South Bend, Ind., and R. A. Brannigan, New York, N. Y., assignors to The Studebaker Corporation. Demountable rim for vehicles. No. 1,334,158; Mar. 16; v. 272; p. 486.
Hancock, Charles E. (See Vickers, W. H., and Hancock.)
Hancock, Edmund W. (See Lundell, A. E., and Hancock.)
Hancock, Frank R., and R. F. Hoffman, Kenosha, Wis. Steering-wheel. No. 1,347,156; July 20; v. 276; p. 481.
Hancock, George L., Geneva, N. Y. Dumping-vehicle. No. 1,349,760; Aug. 17; v. 277; p. 443.
Hancock, John. (See Gloemker, Henry W., assignor.)
Hancock, Lee B. (See Jenkins, Charles W., assignor.)
Hancock, Robert S., Brooklyn, N. Y. Dumping-scow. No. 1,360,291; Nov. 30; v. 280; p. 824.
Hancock, Thomas, Bow, assignor to The Reflecto-Metal Company, Limited, London, England. Manufacture of metal reflectors, mirrors, and other metal articles having a reflecting surface or surfaces. No. 1,336,224; Apr. 6; v. 273; p. 98.
Hancock, Thomas F., assignor to The Seymour Metal Goods Company, Seymour, Conn. Hose-supporter. No. 1,346,648; July 13; v. 276; p. 323.
Hancq, John B., Jamestown, N. Y. Shuttle. No. 1,327,954; Jan. 13; v. 270; p. 262.
Hand, Edgar K., Chicago, Ill. Reinforced-concrete pile and panel. No. 1,338,503; Apr. 27; v. 273; p. 734.
Hand, Edgar K., assignor of one-third to C. T. Brown, Chicago, Ill. Installing water-front walls. No. 1,347,459; July 20; v. 276; p. 541.
Hand, Erle H., Baltimore, Md. Tone-arm for talking-machines. No. 1,345,487; July 6; v. 276; p. 31.
Hand, Erle H., Baltimore, Md. Sound-conduit. No. 1,346,649; July 13; v. 276; p. 323.
Hand, Jay A. (See Kuhn, F., and Hand.)
Hand, Judson L., Sanger, Calif. Internal-combustion engine. No. 1,350,607; Aug. 24; v. 277; p. 654.
Hand, Laura L. (See Hand, Raymond H., assignor.)
Hand, Raymond H., assignor of one-half to L. L. Hand, Bridgeton, N. J. Spark-plug. No. 1,332,396; Mar. 2; v. 272; p. 43.
Hand, Thomas W., assignor to Davy Brothers, Limited, Sheffield, England. Steam hydraulic intensifier. No. 1,331,991; Feb. 24; v. 271; p. 617.
Hand, Thomas W., assignor to Davy Brothers Limited, Sheffield, England. Steam hydraulic intensifier. No. 1,346,198; July 13; v. 276; p. 233.
Hand, Townson, Orlando, Fla. Shoe-heel. No. 1,330,183; Feb. 10; v. 271; p. 188.
Handel Company, The. (See Handel, William F., assignor.)
Handel, William F., Meriden, Conn., assignor to The Handel Company. Fastening for shades. No. 1,363,782; Dec. 28; v. 281; p. 689.
Handelan, Daniel, Aberdeen, S. D. Hot-air heating system. No. 1,336,901; Apr. 13; v. 273; p. 287.
Handlan, Alexander H., Jr., St. Louis, Mo. Adjustable signal-lamp support. No. 1,330,865; Feb. 17; v. 271; p. 384.
Handlan, Alexander H., Jr., St. Louis, Mo. Railway-signal lamp. No. 1,338,769; May 4; v. 274; p. 23.
Handlan-Buck Manufacturing Company. (See Meyer, August, assignor.)
Handlan Buck Manufacturing Company. (See Rolfes, George H., assignor.)
Handlan, William C. (See Roe, William C., assignor.)
Handler, Eugene, Newark, assignor to General Lead Batteries Company, Delaware, N. J. Storage-battery element. No. 1,327,284; Jan. 6; v. 270; 67.
Handler, William, Newark, N. J. Handle. No. 1,350,650; Aug. 24; v. 277; p. 662.
Handley, George, Palmers Green, assignor of one-half to P. W. Bullock, London, England. Rotary pump. No. 1,335,577; Mar. 30; v. 272; p. 860.
Handley, George, Palmers Green, assignor to P. W. Bullock, London England. Rotary pump for pumping liquids. No. 1,353,745; Sept. 21; v. 278; p. 494.
Handley Page Limited. (See Page, Frederick H., assignor.)
Handley, Teresa, *et al.* (See Herbert, Abelardo, assignor.)
Hands, Harry A. (See Ellis, Arthur T., assignor.)
Handschiegl, Max, Los Angeles, Calif. Film-polishing machine. No. 1,334,655; Mar. 23; v. 272; p. 626.
Handschuh, Frank, Buffalo, N. Y. Automatic train-stopping apparatus. No. 1,361,253; Dec. 7; v. 281; p. 54.
Handshy, Charles F., and W. P. Potter, Springfield, Ill. Shipping-ticket. No. 1,338,770; May 4; v. 274; p. 23.
Handy Manufacturing Company. (See Bergstrom, Oscar, assignor.)
Handy, Wilfred M., Spokane, Wash. Producing refractory compounds. No. 1,330,263; Feb. 10; v. 271; p. 203.
Haner, Carl, Jr., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Furnace. No. 1,342,958; June 8; v. 275; p. 317.
Hanes, Cyrus E., Armington, Ill. Oil-measure. No. 1,327,156; Jan. 6; v. 270; p. 52.
Haney, John, *et al.* (See Gothner, John, assignor.)
Haney, Robert L., Elkmont, Ala. Wagon-brake. No. 1,336,956; Apr. 13; v. 273; p. 298.
Hanger, Courtney C., assignor of one-fourth to W. D. Coil, Madisonville, Ky. Air-pump. No. 1,332,293; Mar. 2; v. 272; p. 23.
Hanington, Charles A., Brooklyn, N. Y. Beaded fabric. No. 1,329,900; Feb. 3; v. 271; p. 104.
Hanish, Richard D., Columbus, Ohio. Treating moving-picture films. No. 1,356,356; Oct. 19; v. 279; p. 468.
Hanisko, George, Youngstown, Ohio. Semaphore. No. 1,363,111; Dec. 21; v. 281; p. 519.
Hanke, Alvin A., Cleveland, Ohio. Spring suspension. No. 1,331,810; Feb. 24; v. 271; p. 582.
Hanke, Gustav A. (See Dupont, F. M., and Hanke.)
Hankee, Harry J., Minneapolis, Minn. Traffic-signal for autos. No. 1,327,671; Jan. 13; v. 270; p. 209.
Hankins, Isaac W. H. (See Hankins, Robert J. and I. W. H.)
Hankins, Robert J. and I. W. H. Hankins, Tazewell, Va. Mail-distributing device. No. 1,340,046; May 11; v. 274; p. 337.
Hanks, David W., Davenport, Iowa. Weed-puller. No. 1,363,112; Dec. 21; v. 281; p. 519.
Hanks, Frederick A., Nunhead, England. Angle-indicator for use in gun laying and firing and fuse-timing. No. 1,363,866; Dec. 28; v. 281; p. 706.
Hanks, Frederick W., Cleveland, Ohio. Heat-confining attachment for burners. No. 1,355,226; Oct. 12; v. 279; p. 207.
Hanks, John C., Russell, Ky. Safety-hanger for brake-beams. No. 1,327,909; Jan. 13; v. 270; p. 254.
Hankulich, Michael, Stockdale, Pa. Milk-boiler. No. 1,340,336; May 18; v. 274; p. 449.
Hanley, Herbert R., Kennett, Calif. Generating gases and treating solutions therewith. No. 1,360,524; Nov. 30; v. 280; p. 870.
Hanley, Joseph P. (See Riordan, R. J., and Hanley.)
Hanley, Joseph W. (See Thatcher, H. P., and Hanley.)
Hanlon, Bernard, Lethbridge, Alberta, Canada. Hopple. No. 1,341,900; June 1; v. 275; p. 56.
Hanlon & Goodman Co. (See Hecht, Charles E., assignor.)
Hanmer, Laurence G., Brooklyn, assignor to The A-Z Company, New York, N. Y. Automobile-radiator and making same. No. 1,346,492; July 13; v. 276; p. 292.
Hanna, Gretchen R., Boston, Mass. Infant's night-garment. No. 1,341,317; May 25; v. 274; p. 707.
Hannagan, Catherine L., administratrix. (See Hannagan, Paul.)
Hannagan, Paul, deceased, Lawrence, Mass.; C. T. Hannagan, administratrix. Traffic-post. No. 1,341,318; May 25; v. 274; p. 707.
Hannam, William J., Springfield, Ohio. Trailer for camping purposes. No. 1,336,627; Apr. 13; v. 273; p. 234.
Hannan, Le Roy A. (See Black, G. W., and Hannan.)
Hänni, Ernst, Arbon, and H. Stamm, St. Gallen, assignors to Firme Adolphe Saurer, Arbon, Switzerland. Automatic rifle. No. 1,346,494; July 13; v. 276; p. 292.
Hannon, George M., Belton, Tex. Fly-killing device. No. 1,340,767; May 18; v. 274; p. 530.
Hannum, Harry A., Springfield, Mass., assignor to Winchester Repeating Arms Co., New Haven, Conn. Roller-skate wheel. No. 1,347,777; July 27; v. 276; p. 662.
Hanovia Chemical & Manufacturing Company. (See Quimby and Robinson, assignors.)
Hanrath, Theodore W., Chicago, Ill. Baby-carrier. No. 1,328,832; Jan. 27; v. 270; p. 493.
Hanriot, René, Neuilly-sur-Seine, and F. Gratieux, Paris, assignors to Societe R. Hanriot et Cie., Billancourt, France. Aeroplane. No. 1,354,827; Oct. 5; v. 279; p. 76.
Hansalpakar, Edwin, Campello, assignor to Brockton Heel Company, Inc., Brockton, Mass. Heel-press with automatic ejector. No. 1,332,037; Feb. 24; v. 271; p. 625.
Hansard, Robert L., Ranger, Tex. Rotary moving-picture machine. No. 1,359,457; Nov. 16; v. 280; p. 546.
Hanscom, Frank Z., Elmhurst, Ill. Anterior tooth and backing. No. 1,335,734; Apr. 6; v. 273; p. 6.
Hanscom, Walter G., C. H. Kohler, and E. L. Peet, Minneapolis, Minn. Weed-cutting tool. No. 1,354,969; Oct. 5; v. 279; p. 104.
Hansen, Albert E., Elkhart, Ind. Expander. No. 1,346,957; July 20; v. 276; p. 442.
Hansen, Alvin A., and E. M. Stukes, Clinton, Iowa. Carbureter. No. 1,362,302; Dec. 14; v. 281; p. 310.
Hansen, Amandus P., Tacoma, Wash. Drainage and relief valve. No. 1,359,988; Nov. 23; v. 280; p. 696.
Hansen, Andreas, Cumberland Mills, Me. Wire-stretcher. No. 1,353,835; Sept. 28; v. 278; p. 555.
Hansen, Augie L., Evanston, assignor to Justrite Manufacturing Company, Chicago, Ill. Lubricating device. No. 1,339,619; May 11; v. 274; p. 257.
Hansen, Augie L., Evanston, assignor to Justrite Manufacturing Company, Chicago, Ill. Thread-guiding device. No. 1,340,541; May 18; v. 274; p. 488.
Hansen, Augie L., Evanston, assignor to Justrite Manufacturing Company, Chicago, Ill. Spark-wheel-toothing machine. No. 1,344,299; June 22; v. 275; p. 708.
Hansen, Charles C., Forest Park, assignor to Refrigerating Specialties Company, Chicago, Ill. Refrigerating apparatus. No. 1,330,866; Feb. 17; v. 271; p. 384.
Hansen, Charles C., Forest Park, assignor to Refrigerating Specialties Company, Chicago, Ill. Refrigerating apparatus. No. 1,330,867; Feb. 17; v. 271; p. 384.

Digitized by Google

Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Throttle-valve. No. 1,345,364; July 6; v. 276; p. 7.
Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Core-drill. No. 1,358,441; Nov. 9; v. 280; p. 303.
Hansen, Charles C., Easton, Pa., assignor to Ingersoll Rand Company, Jersey City, N. J. Oil-burning forge. No. 1,361,329; Dec. 7; v. 281; p. 70.
Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Subaqueous rock-drill. No. 1,363,586; Dec. 28; v. 281; p. 652.
Hansen, Christen M., Jersey City, N. J. Revoluble seat. No. 1,337,221; Apr. 20; v. 273; p. 422.
Hansen, Clifford O., Tiffin, Ohio. Friction-clutch. No. 1,338,298; Apr. 27; v. 273; p. 695.
Hansen, Ebbe J., Los Angeles, Calif. File-clip. No. 1,329,661; Feb. 3; v. 271; p. 59.
Hansen, Ebbe J., Los Angeles, Calif. Combination-tool. No. 1,329,707; Feb. 3; v. 271; p. 67.
Hansen-Ellehammer, Jacob C., Copenhagen, Denmark. Windmill. No. 1,342,206; June 1; v. 275; p. 117.
Hansen, George T., Salt Lake City, Utah. Metallurgical process. No. 1,361,459; Dec. 7; v. 281; p. 97.
Hansen, Hans. (See Jensen, P., and Hansen.)
Hansen, Hans, New Rockford, N. D. Match-receptacle. No. 1,335,234; Mar. 30; v. 272; p. 796.
Hansen, Hans C., Seattle, Wash. Oven attachment for stoves. No. 1,327,203; Jan. 6; v. 270; p. 61.
Hansen, Jens P., Copenhagen, Denmark. Dark-room lamp. No. 1,335,684; Mar. 30; v. 272; p. 880.
Hansen, Karl H., Sewickley, assignor, by mesne assignments, to Koppel Industrial Car and Equipment Company, Pittsburgh, Pa. Axle-bearing. No. 1,328,512; Jan. 20; v. 270; p. 405.
Hansen, Lars, Kansas City, Mo. Molding-machine. No. 1,348,411; Aug. 3; v. 277; p. 56.
Hansen, Louis S., Pittsburgh, Pa. Toy house. No. 1,340,047; May 11; v. 274; p. 337.
Hansen, Marinius, assignor to Max Siegel, Brooklyn, N. Y. Eyeglasses or spectacles. No. 1,358,200; Nov. 9; v. 280; p. 253.
Hansen, Niels M., Lincoln, Nebr. Extensible hat-hanger. No. 1,359,595; Nov. 23; v. 280; p. 618.
Hansen, Oswald H., assignor of one-half to The Wisconsin Chair Company, Port Washington, Wis. Feeding device. No. 1,339,060; May 4; v. 274; p. 77.
Hansen, Oswald H., Milwaukee, Wis., assignor of one-half to The Wisconsin Chair Company, Port Washington, Wis. Can-filling machine. No. 1,359,367; Nov. 16; v. 280; p. 528.
Hansen, Peter M. (See Pearne, Tomkewitz, and Hansen.)
Hansen, Sophus P., Copenhagen, Denmark. Necktie-holder. No. 1,363,783; Dec. 28; v. 281; p. 690.
Hansen, Svend, Brooklyn, N. Y., assignor to Birmingham Iron Foundry, Derby, Conn. Quick release for brake-bands. No. 1,360,634; Nov. 30; v. 280; p. 891.
Hansen, Valentine J., Oklahoma, Okla. Composition for closing the meshes of wire fabric. No. 1,354,551; Oct. 5; v. 279; p. 21.
Hansen, Viggo N., Winnetka, assignor to Standex Manufacturing Corporation, Chicago, Ill. Engine-controlled lubricating system. No. 1,352,954; Sept. 14; v. 278; p. 277.
Hansford, Russell M., Seattle, Wash. Wheel. No. 1,361,722; Dec. 7; v. 281; p. 149.
Hansgen, Andrew J., and E. G. Oversmith, Denver, Colo. Gas-saver for internal-combustion engines. No. 1,327,551; Jan. 6; v. 270; p. 125.
Hanshew, George O., Brooklyn, assignor to International Motor Company, New York, N. Y. Demountable steel tire. No. 1,363,411; Dec. 28; v. 281; p. 617.
Hanson, Andrew C., Racine, Wis. Rotary safety-razor. No. 1,353,160; Sept. 21; v. 278; p. 377.
Hanson, Bengt M. W., Hartford, Conn. Milking-machine. No. 1,331,708; Feb. 24; v. 271; p. 563.
Hanson, Bengt M. W., Hartford, Conn. Metal-working machine. No. 1,346,822; July 20; v. 276; p. 416.
Hanson, Bengt M. W., Hartford, Conn. Metal-working machine. No. 1,355,142; Oct. 12; v. 279; p. 190.
Hanson, Bengt M. W., Hartford, Conn. Vise. No. 1,355,143; Oct. 12; v. 279; p. 190.
Hanson, Bengt M. W., Hartford, Conn. Gage. No. 1,363,250; Dec. 28; v. 281; p. 587.
Hanson, Bengt M. W., Hartford, Conn. Metal-working machine. No. 1,363,587; Dec. 28; v. 281; p. 652.
Hanson, Bengt M. W., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Cylindrical grinding-machine. No. 1,339,027; May 4; v. 274; p. 70.
Hanson, Bengt M. W., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Metal-reducing machine. No. 1,341,799; June 1; v. 275; p. 37.
Hanson, Bengt M. W., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Generating formers for contour-grinding machines. No. 1,341,800; June 1; v. 275; p. 37.
Hanson, Bengt M. W., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Drop-table mechanism for milling-machines. No. 1,347,778; July 27; v. 276; p. 662.
Hanson, David L., Wilmington, assignor to Pine Nene Products Company, Jacksonville, N. C. Recovering oils through the destructive distillation of wood. No. 1,330,632; Feb. 10; v. 271; p. 272.
Hanson, Earl C. (See Carlson, W. L., and Hanson.)
Hanson, Earl C., Washington, D. C. Wireless transmission of speech. No. 1,341,232; May 25; v. 274; p. 691.
Hanson, Earl C., Washington, D. C. Telephone apparatus for the deaf. No. 1,343,717; June 15; v. 275; p. 530.
Hanson, Earl C., Washington, D. C. Apparatus on aircraft for receiving and delivering mail and merchandise. No. 1,347,157; July 20; v. 276; p. 481.
Hanson, Ezekiel, Corning, Calif. Automatic lubricator. No. 1,334,899; Mar. 23; v. 272; p. 674.
Hanson, Frederick, Anita, Iowa. Marker for corn-planters. No. 1,363,412; Dec. 28; v. 281; p. 617.
Hanson, H. L., Butte, Mont., and M. B. Sawyer, Edmonds, Wash. Burning tree-stumps. No. 1,352,261; Sept. 7; v. 278; p. 105.
Hanson, Haakon P., Albert Lea, Minn. Cattle-stanchion. No. 1,360,940; Nov. 30; v. 280; p. 950.
Hanson, Haakon P., Albert Lea, Minn. Cattle-stanchion. No. 1,360,941; Nov. 30; v. 280; p. 950.
Hanson, Hans C., Albert Lea, Minn. Cooking utensil. No. 1,355,332; Oct. 12; v. 279; p. 228.
Hanson, Harold C., Butte, Mont., and M. B. Sawyer, Edmonds, Wash. Method of and apparatus for sawing trees. No 1,342,213; June 1; v. 275; p. 118.
Hanson, Harry, Watertown, assignor to Select Service Company, Boston, Mass. Coin-controlled vending-machine. No. 1,349,953; Aug. 17; v. 277; p. 479.
Hanson, Henry L., Worcester, Mass. Broaching-machine. No. 1,328,281; Jan. 20; v. 270; p. 360.
Hanson, Hjalmer, San Francisco, Calif. Rule and tool holder. No. 1,335,333; Mar. 30; v. 272; p. 815.
Hanson, Isaac E., Marcus, Iowa. Ditching-machine. No. 1,329,523; Feb. 3; v. 271; p. 34.
Hanson, James, and M. L. Bramson, Stafford, England. Stop-valve for fluid-pressure systems. No. 1,360,993; Nov. 30; v. 280; p. 961.
Hanson, John E., St. Paul, Minn. Carpet-beater. No. 1,347,949; July 27; v. 276; p. 695.
Hanson, John Z., Fort Worth, Tex. Advertising device. No. 1,327,552; Jan. 6; v. 270; p. 126.
Hanson, Joseph C., and J. L. Daus, Moville, Iowa. Planter. No. 1,332,830; Mar. 2; v. 272; p. 125.
Hanson, Milton E., assignor to Newton D. Baker, Secretary of War, trustee, Poughkeepsie, N. Y. Mandrel for forming receptacles from fibrous material. No. 1,358,635; Nov. 9; v. 280; p. 341.
Hanson, Nellie. (See Pope, Clarence J., assignor.)
Hanson, Olaf C. (See Johnson, J. N., and Hanson.)
Hanson, Ole R., Cadogan, Alberta, Canada. Traction-wheel. No. 1,338,299; Apr. 27; v. 273; p. 696.
Hanson, Oscar W., Salina, Kans. Piston packing-ring. No. 1,344,342; June 22; v. 275; p. 717.
Hanson, Samuel L., Albert Lea, Minn. Adjustable cattle-stall. No. 1,327,386; Jan. 6; v. 270; p. 94.
Hanson, Soren S. (See Shuman, C. S., and Hanson.)
Hanson, Swan. (See Olson, A., and Hanson.)
Hanson, T. Sophus. (See Nelson, Henry, assignor.)
Hanson & Van Winkle Company, The. (See Todd, E. N., and King, assignors.)
Hanson, Walter M., Kenosha, Wis. Method and apparatus for inserting eye-bushings. No. 1,346,199; July 13; v. 276; p. 233.
Hanssen, Ralph, P. B. Haug, Great Falls, Mont., and M. E. Darby, Tacoma, Wash. Amalgamator. No. 1,361,723; Dec. 7; v. 281; p. 149.
Hanstine, Harry S., Ambridge, assignor of one-half to F. Hallam, Fair Oaks, Pa. Molding apparatus. No. 1,347,093; July 20; v. 276; p. 469.
Hanton, Pater S., Kew, Victoria, Australia. Mixing-valve for steam-heated water-supply systems. No. 1,327,235; Jan. 6; v. 270; p. 67.
Hantsch, Alfred P., New Brunswick, N. J. Magazine plate-holder. No. 1,357,164; Oct. 26; v. 279; p. 672.
Hantsch, Arthur, Linden, N. J. Stand for bicycles. No. 1,344,226; June 22; v. 275; p. 693.
Hantzsch, Eugene G., Omaha, Nebr. Automobile attachment. No. 1,339,822; May 11; v. 274; p. 295.
Hanway, Thomas F., Chicago, Ill. Spark-plug. No. 1,334,698; Mar. 23; v. 272; p. 634.
Hapgood, Clarence H., assignor to Toledo Scale Company, Toledo, Ohio. Weighing-scale. No. 1,341,123; May 25; v. 274; p. 670.
Hapgood, Clarence H., assignor to Toledo Scale Company, Toledo, Ohio. Weighing-scale. No. 1,351,034; Aug. 31; v. 277; p. 799.
Hapgood, Cyrus H. (See Boyd, Frederic, R. C., and Hapgood.)
Hapgood, Cyrus H., Danvers, Mass., assignor to The De Laval Separator Company, New York, N. Y. Purifying lubricating-oil. No. 1,363,784; Dec. 28; v. 281; p. 690.
Hapsburg-Lothringen, Leopold S., Vienna, Austria. Motor-car. No. 1,355,853; Oct. 19; v. 279; p. 369.
Hara, Fusataro, San Francisco, Calif. Ice-cream-delivery machine. No. 1,351,903; Sept. 7; v. 278; p. 38.
Hara, Sei, executrix. (See Hara, Shibataro.)
Hara, Shibataro, deceased; Mrs. Sei Hara executrix, Musquiz, Mexico. Vehicle rear-end signal. No. 1,355,077; Oct. 5; v. 279; p. 125.

Digitized by Google

Harada, Yotaro, Stockton, Calif. Iron. No. 1,326,928; Jan. 6; v. 270; p. 9.
Harbaugh, Paul C., Portland, Oreg. Ticket-dispensing device. No. 1,339,823; May 11; v. 274; p. 295.
Harbaugh, William F., Lakota, N. D. Reel. No. 1,347,697; July 27; v. 276; p. 645.
Harbeck, Jervis R., Chicago, Ill., assignor to American Can Company, New York, N. Y. Can or container. No. 1,338,688; May 4; v. 274; p. 7.
Harber, Laurence S. (See Baker, R. E., Ford, and Harber.)
Harberson, Edward M., Los Angeles, Calif. Yoke construction for leaf-springs. No. 1,353,746; Sept. 21; v. 278; p. 494.
Harbison, Andrew J., Drexel, Mo. Brick-cleaning machine. No. 1,332,038; Feb. 24; v. 271; p. 626.
Harbord, Frederick G., Philadelphia, Pa. Vise. No. 1,361,577; Dec. 7; v. 281; p. 121.
Harbert, Herman, Madison, Wis. Chimney-cleaner. No. 1,329,596; Feb. 3; v. 271; p. 47.
Harbour, Thomas P., and B. B. Brinnon, Bellefontaine, Ohio. Commutator. No. 1,353,392; Sept. 21; v. 278; p. 422.
Harbridge, Chester C., Detroit, Mich. Demountable rim. No. 1,328,731; Jan. 20; v. 270; p. 445.
Hard Manufacturing Co. (See Dyett, James H., assignor.)
Hard Manufacturing Company. (See McKay, John, assignor.)
Hardcastle, Harry K. (See Bright, G., Holy, and Hardcastle.)
Hardee, Robert E., Savannah, Ga. Violin sound-post. No. 1,327,157; Jan. 6; v. 270; p. 52.
Hardel, Jean A., Paris, France. Apparatus for cementing wells. No. 1,330,023; Feb. 3; v. 271; p. 126.
Hardel, Jean A., Paris, France. Explosive. No. 1,337,451; Apr. 20; v. 273; p. 465.
Hardel, Jean A., Paris, France. Apparatus for and process of lining wells. No. 1,339,955; May 11; v. 274; p. 320.
Hardeman, William E. (See Macbeth, C., and Hardeman.)
Harden, Emmett S., Casey, Iowa. Device for shifting the gears of automobiles. No. 1,331,012; Feb. 17; v. 271; p. 413.
Harden, Harry, London, Ohio. Combined door holder and stop. No. 1,348,108; July 27; v. 276; p. 727.
Harden, Harry, London, Ohio. Vehicle-shaft support. No. 1,348,109; July 27; v. 276; p. 728.
Harden, Jacob L., North Platte, Nebr. Plunger-rod for spring-wheels. No. 1,337,068; Apr. 13; v. 273; p. 319.
Harder Furnace & Engineering Corporation. (See Harder, William L., assignor.)
Harder, Harry E. (See Newsom, J. N., Harder, and Leschen.)
Harder, William L., Birmingham, Ala., assignor to Harder Furnace & Engineering Corporation, New York, N. Y. Combustion-furnace. No. 1,364,741; Oct. 5; v. 279; p. 58.
Hardesty, George E., Folsom, N. Mex. Farm-gate. No. 1,361,152; Dec. 7; v. 281; p. 34.
Hardesty, John F. (See O'Conner, Paul H., assignor.)
Hardgrove, Burton C., Portland, Oreg., assignor of one-half to C. Osborne. Spark-arrester. No. 1,349,151; Aug. 10; v. 277; p. 250.
Hardie, R. W., Company. (See Hardie, Robert W., assignor.)
Hardie, Robert W., White Plains, N. Y., assignor to R. W. Hardie Company, Inc. Humidifying air. No. 1,336,225; Apr. 6; v. 273; p. 98.
Hardie, Robert W., White Plains, N. Y., assignor to R. W. Hardie Company, Inc. Air-moistener. No. 1,337,766; Apr. 20; v. 273; p. 526.
Hardie, Robert W., White Plains, N. Y., assignor to R. W. Hardie Company, Inc. Air moistening and heating system. No. 1,342,214; June 1; v. 275; p. 118.
Hardie, Robert W., White Plains, N. Y., assignor to R. W. Hardie Company, Inc. Air-moistener. No. 1,343,718; June 15; v. 275; p. 530.
Hardin, Orion G. (See Palmer, E. F., and Hardin.)
Harding, Abner C. (See Kennicott, Cass L., and Kemble, assignors.)
Harding, Henry O., Minneapolis, Minn. Conveying and elevating apparatus. No. 1,352,262; Sept. 7; v. 278; p. 105.
Harding, Henry O., assignor to Washburn Crosby Company, Minneapolis, Minn., Conveyer. No. 1,352,263; Sept. 7; v. 278; p. 105.
Harding, Henry O., assignor to Washburn Crosby Company, Minneapolis, Minn. System of handling flour in mills. No. 1,357,977; Nov. 9; v. 280; p. 209.
Harding, Henry O'B., Minneapolis, Minn. Elevating apparatus. No. 1,360,212; Nov. 23; v. 280; p. 740.
Harding, Hiram R., Tipers, Va. Organized mechanism for skinning and coring tomatoes. No. 1,356,447; Oct. 19; v. 279; p. 485.
Harding, John, Detroit, Mich., assignor of one-half to C. P. Kills, Nashville, Tenn. Heating device. No. 1,331,061; Feb. 17; v. 271; p. 422.
Harding, Lee L., Newington, assignor to The New Britain Machine Company, New Britain, Conn. Cultivator. No. 1,355,472; Oct. 12; v. 279; p. 255.
Harding, Lee L., Newington, assignor to The New Britain Machine Company, New Britain, Conn. Weeder. No. 1,355,473; Oct. 12; v. 279; p. 255.
Harding, Marcelle J., New York, N. Y. Toilet-accessory container. No. 1,346,541; July 13; v. 276; p. 801.
Hardinge Brothers. (See Hardinge, Franklin, assignor.)
Hardinge, Franklin, Chicago, Ill. Gear mechanism for lathes. No. 1,362,790; Dec. 21; v. 281; p. 457.
Hardinge, Franklin, Chicago, Ill., assignor to Hardinge Brothers. Fastener for closures. No. 1,330,184; Feb. 10; v. 271; p. 189.
Hardinge, Franklin, assignor to Hardinge Brothers, Chicago, Ill. Gear mechanism. No. 1,334,242; Mar. 16; v. 272; p. 502.
Hardinge, Harlowe. (See Hardinge, Harry W., and H.)
Hardinge, Harry W., New York, N. Y. Tube-mill. No. 1,348,642; Aug. 3; v. 277; p. 99.
Hardinge, Harry W., New York, N. Y. Conical mill. No. 1,355,474; Oct. 12; v. 279; p. 255.
Hardinge, Harry W., and H., New York, N. Y. Telethermoscope. No. 1,352,956; Sept. 14; v. 278; p. 278.
Hardingham, George G. M., assignor to The Richards Thread Milling Machine Company, (1918) Limited, Westminster, London, England. Cutter for milling screw-threads. No. 1,335,892; Apr. 6; v. 273; p. 35.
Hardman, Charles T., Albany Ala., assignor of one-half to H. K. Adams, Nashville, Tenn. Lead control for valve-gears. No. 1,360,342; Nov. 30; v. 280; p. 950.
Hardman, Peter, Willimantic, Conn. Plaiting-machine. No. 1,330,264; Feb. 10; v. 271; p. 203.
Hardnett, Merrellon F., Atlanta, Ga. Spring-fork for bicycles. No. 1,343,820; June 15; v. 275; p. 550.
Hardon, Chester F., trustee. (See Elwell, George H., assignor.)
Hardon, Francis H., New York, N. Y. Caster. No. 1,358,543; Nov. 9; v. 280; p. 322.
Hardon, Francis H., assignor of one-half to F. Palladino, New York, N. Y. Valve for compressed-air transom-operators. No. 1,361,381; Dec. 7; v. 281; p. 80.
Hardt, Benjamin F., San Saba, Tex. Flush-tank valve. No. 1,359,593; Nov. 23; v. 280; p. 618.
Hardt, Benjiman F., and S. T. Taylor, San Saba, Tex. Torch or burner. No. 1,338,653; Apr. 27; v. 273; p. 761.
Hardware Specialty Co. (See Abbott, Percy C., assignor.)
Hardwick, Archer P., Vanadium, Colo. Internal-combustion engine. No. 1,349,275; Aug. 10; v. 277; p. 275.
Hardwick, Stanley R., assignor of one-half to J. A. Wood, Toledo, Ohio. Fluid-fuel furnace. No. 1,363,867; Dec. 28; v. 281; p. 706.
Hardwick, Stanley R., assignor of one-half to J. A. Wood, Toledo, Ohio. Burner apparatus. No. 1,363,868; Dec. 28; v. 281; p. 706.
Hardwick, W. M., *et al.* (See Kien, Edward T., assignor.)
Hardy, Charles, *et al.* (See Service, William F., assignor.)
Hardy, David G., assignor of one-half to J. E. Mayfield, Washington, D. C. Lock. No. 1,360,943; Nov. 30; v. 280; p. 951.
Hardy, Edward J., Coventry, England. Universal joint of the flexible-disk type. No. 1,350,500; Aug. 24; v. 277; p. 633.
Hardy, Emery E., Brooklyn, N. Y. Roller-skate. No. 1,345,848; July 6; v. 276; p. 102.
Hardy, Forster, South Ealing, England. Fishing-rod. No. 1,351,473; Aug. 31; v. 277; p. 885.
Hardy, James W., Newton, Kans. Automatic folding chair. No. 1,330,185; Feb. 10; v. 271; p. 189.
Hardy, Lewis W., Chicago, Ill. Combination support and canopy. No. 1,363,728; Dec. 28; v. 281; p. 679.
Hardy, Robert R., Little Rock, Ark. Support. No. 1,330,818; Feb. 10; v. 271; p. 218.
Hardy, Thomas M., Pendleton, Ind. Universal joint and means for retaining lubricant therein. No. 1,357,320; Nov. 2; v. 280; p. 23.
Hare, Arthur J., Dunedin, New Zealand. Winding-reel. No. 1,340,712; May 18; v. 274; p. 520.
Hare, Wilfred A., Detroit, Mich. Underfeed stoker. No. 1,361,988; Dec. 14; v. 281; p. 249.
Hargrave, Russell R., Pasadena, Tex. Railway-crossing shock-absorber. No. 1,343,869; June 15; v. 275; p. 560.
Hargraves, Albert, assignor to The Firestone Steel Products Company, Akron, Ohio. Cast-steel wheel. No. 1,331,917; Feb. 24; v. 271; p. 603.
Hargraves, Edwin, *et al.*, executors. (See Royle, John J. and G. E.)
Hargreaves, William, Manchester, England, assignor of one-half to R. L. Ross and Company, Limited, Stockport, England. Safety-valve. No. 1,359,169; Nov. 16; v 280; p. 488.
Harker, Harry A. (See Deakins, G. C., and Harker.)
Harkins, Edwin M., Medford. Mass. Waste-plug for wash-bowls. No. 1,333,617; Mar. 16; v. 272; p. 386.
Harkins, Harry B., H. B. Holstein, and W. A. Poland, Leavenworth, Kans. Auto-protector. No. 1,360,944; Nov. 30; v. 280; p. 951.
Harkins, Thomas L. (See Auld, Hugh R., assignor.)
Harkins, Thomas L., Boston, Mass. Tire-spreader. No. 1,345,849; July 6; v. 276; p. 102.
Harkins, Thomas L., Boston, Mass. Tipping form. No. 1,358,729; Nov. 16; v. 280; p. 404.
Harkinson, Floyd R., Philadelphia, Pa. Game. No. 1,335,498; Mar. 30; v. 272; p. 845.
Harkness, John, Ayr, Scotland. Building structure. No. 1,350,019; Aug. 17; v. 277; p. 492.
Harkon, John W., Melbourne, Quebec, Canada. Sight for rifles. No. 1,358,201; Nov. 9; v. 280; p. 253.

Digitized by Google

Harland, Silas E., Ocean View, Va. Internal-combustion engine. No. 1,347,094; July 20; v. 276; p. 469.
Harland and Wolff, Limited. (See Bentley, Horatio H., assignor.)
Harle, William. (See Sparrow, J. A., and Harle.)
Harlem Contracting Company. (See Shortell, William H., assignor.)
Harlet, Emile, Fives-Lille, France. Locomotive blast-pipe. No. 1,344,887; June 29; v. 275; p. 888.
Harley-Davidson Motor Co. (See Harley, William S., assignor.)
Harley-Davidson Motor Company. (See Zetterlund, Theodor, assignor.)
Harley, Leon J., Jr. (See Hodgetts, Harold W., assignor.)
Harley-Mason, Vernon B., Cheam, England. Steam-expansion engine. No. 1,343,449; June 15; v. 275; p. 476.
Harley, Melvin G., South Bend, Ind. Headlight. No. 1,328,992; Jan. 27; v. 270; p. 524.
Harley, William S., assignor to Harley-Davidson Motor Co., Milwaukee, Wis. Automatic voltage control. No. 1,328,149; Jan. 13; v. 270; p. 299.
Harley, William S., assignor to Harley-Davidson Motor Company, Milwaukee, Wis. Combined intake and exhaust manifold. No. 1,328,150; Jan. 13; v. 270; p. 299.
Harley, William S., assignor to Harley-Davidson Motor Co., Milwaukee, Wis. Engine construction; No. 1,360,110; Nov. 23; v. 280; p. 720.
Harley, William S., assignor to Harley-Davidson Motor Co., Milwaukee, Wis. Motorcycle-windshield. No. 1,360,945; Nov. 30; v. 280; p. 951.
Harlow, Clarence B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Signaling device. No. 1,360,635; Nov. 30; v. 280; p. 892.
Harlow, Fred, *et al.* (See Pickup, George E., assignor.)
Harlow, John B., Upper Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Railway signaling system. No. 1,345,176; June 29; v. 275; p. 943.
Harlow, Lee H., Galesburg, Ill., assignor to Minneapolis Heat Regulator Company, Minneapolis, Minn. Heat-regulator. No. 1,355,041; Oct. 5; v. 279; p. 117.
Harm, Frederick H., St. Paul Minn. Optical trial-frame holder. No. 1,328,669; Jan. 20; v. 270; p. 434.
Harman, Charles W. and E. T., New Rochelle, assignors to Joseph Fabys & Company, New York, N. Y. Watch-case. No. 1,357,978; Nov. 9; v. 280; p. 209.
Harman, Edwin T. (See Harman, Charles W. and E. T.)
Harman, George H. (See Barrows, R. Y., and Harman.)
Harman, George H., Glen Ridge, N. J. Double-compartment powder-box. No. 1,360,739; Nov. 30; v. 280; p. 912.
Harman, Walter A. (See Ricketts, Lawrence M., assignor.)
Harman, William C., Johnston City, Ill. Railway-gate. No. 1,330,529; Feb. 10; v. 271; p. 253.
Harmata, Iiko, Boyel, Alberta, Canada. Candelabrum. No. 1,331,709; Feb. 24; v. 271; p. 563.
Harmeling, Henry G., Paducah, Ky., assignor of one-half to John L. Fay, St. Louis, Mo. Preparing metal to be galvanized or coated. No. 1,384,092; Mar. 16; v. 272; p. 475.
Harmer, Ernest F., Southampton, England. Method and means of springing the driving-wheels of cycles, motor-cycles, cycle-cars, or the like. No. 1,361,382; Dec. 7; v. 281; p. 80.
Harmon, Alton D., assignor of one-third to J. S. Owen and one-third to A. W. S. Strong, Erie, Pa. Computing-machine. No. 1,350,727; Aug. 24; v. 277; p. 677.
Harmon, Charles E., assignor of one-third to R. E. Cline and one-third to W. B. Aitkin, St. Paul, Minn. Spring-wheel. No. 1,332,871; Mar. 2; v. 272; p. 182.
Harmon, Frank L., Beverly, Mass. Bobbin-winding machine. No. 1,356,357; Oct. 19; v. 279; p. 469.
Harmon, Frank L., Beverly, Mass., assignor to Singer Manufacturing Company, Elizabeth, N. J. Eyeleting-machine. (Reissue.) No. 14,931; Aug. 17; v. 277; p. 545.
Harmon, Frank L., Beverly, Mass., assignor to Singer Manufacturing Company, Elizabeth, N. J. Duplex Eyeleter. (Reissue.) No. 14,932; Aug. 17; v. 277; p. 546.
Harmon, Frank W. (See Broadgate, William C., assignor.)
Harmon Paper Company. (See Warren, John J., assignor.)
Harmon, William P., Springville, Calif. Corn-header. No. 1,358,202; Nov. 9; v. 280; p. 253.
Harmon, Willis E., Worcester, Mass. Automobile-body lock. No. 1,361,052; Dec. 7; v. 281; p. 14.
Harms, Rhinehart W., Chicago, Ill., assignor to The R. Thomas and Sons Company, East Liverpool, Ohio. Insulator-pin. No. 1,328,732; Jan. 20; v. 270; p. 445.
Harn, Sherman A., Waterville, Wash. Straw-spreading attachment. No. 1,349,152; Aug. 10; v. 277; p. 250.
Harned, Charles T., Philadelphia, Pa. Flag-support. No. 1,337,222; Apr. 20; v. 273; p. 422.
Harner, John E., assignor to The Buckeye Incubator Company, Springfield, Ohio. Hover. No. 1,334,368; Mar. 23; v. 272; p. 572.
Harnes, Alvin R. (See Hirsch, O. C., and Harnes.)
Harney, Olaf H., Madison, Wis. Undersea-searchlight. No. 1,332,124; Feb. 24; v. 271; p. 641.
Harnly, David H., Chicago, Ill. Awning-guide. No. 1,357,048; Oct. 26; v. 279; p. 650.
Harnsberger, Harry H., Brooklyn, N. Y. Cigarette-holder. No. 1,359,803; Nov. 23; v. 280; p. 659.
Harnsberger, John H., Catlett, Va. Rail-joint-coupling device. No. 1,353,653; Sept. 21; v. 278; p. 476.
Harnsberger, Joseph A., Chico, Tex. Peanut-planter. No. 1,331,341; Feb. 17; v. 271; p. 473.
Harold, John A. (See Miller, Joseph B., assignor.)
Harp, Otto, Wadsworth, Ohio. Crank-handle-retaining device. No. 1,344,343; June 22; v. 275; p. 717.
Harp, Robert T., Gatliff, Ky. Horse-detacher. No. 1,354,186; Sept. 28; v. 278; p. 626.
Harp, William I., assignor of one-fourth to J. Linn, one-fourth to R. B. Todd, and one-fourth to J. E. Todd, Galax, Va. Demountable rim. No. 1,340,894; May 25; v. 274; p. 626.
Harper, A. R. (See Gates, Jefferson E., assignor.)
Harper, Alfred U., assignor to American Telephone and Telegraph Company, Evanston, Ill. Transmission-equalization arrangement. No. 1,357,979; Nov. 9; v. 280; p. 210.
Harper, Martin A. J. (See Myers, M. E., and Harper.)
Harper, William A., Somerville, Seacombe, England. Valve and connection. No. 1,355,964; Oct. 19; v. 279; p. 390.
Harper, William D., San Antonio, Tex. Vehicle-body suspension. No. 1,357,497; Nov. 2; v. 280; p. 56.
Harpman, Albert J., Owatonna, Minn. Propeller-drive for aeroplanes. No. 1,329,081; Jan. 27; v. 270; p. 540.
Harpst, Frederick E., Houston, Tex. Testing device. No. 1,337,132; Apr. 13; v. 273; p. 331.
Harr, Dean. (See Connor, Clyde O., assignor.)
Harrah, Hillis A., Kansas City, Mo., assignor of one-half to L. T. Leimbach, Rosedale, Kans. Driving-gearing for tractors. No. 1,352,125; Sept. 7; v. 278; p. 79.
Harrell, Arthur C. (See Le Baron, L., and Harrell.)
Harrell, Charlie S., Lexington, Miss. Embalming device. No. 1,342,997; June 8; v. 275; p. 325.
Harrell, William H., Dallas, Tex. Railway-signal. No. 1,363,869; Dec. 28; v. 281; p. 707.
Harrigan, John E., assignor to Eagle Puncture Proof Tire & Wheel Co., Inc., New York, N. Y. Vehicle-wheel. No. 1,332,721; Mar. 2; v. 272; p. 104.
Harrigan, William C., Jersey City, N. J., assignor to R. A. Nye, Brooklyn, N. Y. Magnetic valve-operating mechanism. No. 1,331,256; Feb. 17; v. 271; p. 457.
Harriman, Frank H., South Glastonbury, assignor of one-half to T. H. Smith, Fort Hill, Conn. Fuel-economizer. No. 1,334,952; Mar. 30; v. 272; p. 743.
Harriman, George V., New York, N. Y. Syringe. No. 1,348,412; Aug. 3; v. 277; p. 56.
Harriman, George V., New York, N. Y. Spark-plug. No. 1,360,946; Nov. 30; v. 280; p. 951.
Harriman, George W. R., Malden, Mass. Means for presenting geographical and statistical information. No. 1,362,939; Dec. 21; v. 281; p. 485.
Harriman, James H., San Francisco, Calif. Miter-block and gage. No. 1,355,333; Oct. 12; v. 279; p. 228.
Harriman National Bank of the City of New York, trustee. (See Catucci, P., and Nodel, assignors.)
Harriman National Bank of the City of New York, trustee. (See Catucci, P., and Vasselli, assignors.)
Harriman National Bank of the City of New York, trustee. (See Vasselli, Anthony.)
Harriman, Seelye P. (See Russell, E. A., and Harriman.)
Harrington, Clinton O., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Adjustment of electric lamps. No. 1,330,702; Feb. 10; v. 271; p. 285.
Harrington, Clinton O., assignor to The Union Switch & Signal Company, Swissvale, Pa. Relay. No. 1,343,719; June 15; v. 275; p. 530.
Harrington, Grover C. (See Hevel, F., Harrington and Hevel.)
Harrington, Henry, Waukegan, assignor to McKinney-Harrington Co., North Chicago, Ill. Counter attachment for conveyers or elevator systems. No. 1,333,975; Mar. 16; v. 272; p. 453.
Harrington, Henry H., Galion, Ohio. Fastening device for closures. No. 1,357,864; Nov. 2; v. 280; p. 127
Harrington, John L., Winston-Salem, N. C., assignor to Southern Implement Manufacturing Co., Columbus, Ga. Threshing-machine. No. 1,350,452; Aug. 24; v. 277; p. 624.
Harrington and King Perforating Company, The. (See Jorgensen, Hans L., assignor.)
Harrington, Tillie, Minneapolis, Minn. Tub. No. 1,342,807; June 8; v. 275; p. 287.
Harrington, Tillie, Minneapolis, Minn. Toaster. No. 1,343,129; June 8; v. 275; p. 351.
Harrington, Tillie, Minneapolis, Minn. Cooking vessel. No. 1,349,508; Aug. 10; v. 277; p. 321.
Harrington, W. C., *et al.* (See St. Andre, Joseph B., assignor.)
Harrington, William V. (See Ray, George W., assignor.)
Harris, Albert S., New York, N. Y. Diagnostic instrument. No. 1,346,200; July 13; v. 276; p. 233.
Harris, Alexander. (See Aronson and Harris.)
Harris, Alfred F., Warren, assignor to The Harris Automatic Press Company, Niles, Ohio. Delivery mechanism. No. 1,337,223; Apr. 20; v. 273; p. 422.

Digitized by Google

Alphabetical list of patentees—Continued.

Harris, Allen S. (See Inman, L. A., and Harris.)
Harris, Archer H., Barberton, Ohio. Vehicle-spring. No. 1,333,976; Mar. 16; v. 272; p. 453.
Harris, Archer H., Barberton, Ohio. Vehicle-spring. No. 1,333,977; Mar. 16; v. 272; p. 453.
Harris, Archer H., Barberton, Ohio. Collapsible core. No. 1,343,504; June 15; v. 275; p. 487.
Harris, Arthur W., Sleepy Eye, Minn. Intermittent gear. No. 1,331,760; Feb. 24; v. 271; p. 572.
Harris, Arthur W., Sleepy Eye, Minn. Carton-packing mechanism. No. 1,345,926; July 6; v. 276; p. 118.
Harris, Arthur W., Sleepy Eye, Minn. Machine for making paper boxes. No. 1,347,853; July 27; v. 276; p. 677.
Harris, Arthur W., Sleepy Eye, Minn. Package closing and locking mechanism. No. 1,348,643; Aug. 3; v. 277; p. 99.
Harris Automatic Press Company, The. (See Harris, Alfred F., assignor.)
Harris Automatic Press Company, The. (See Niles, Irving F., assignor.)
Harris Automatic Press Company, The. (See Pritchard, Carl G., assignor.)
Harris, Blaine H., assignor to Brown & Bigelow, St. Paul, Minn. Toy aeroplane. No. 1,342,998; June 8; v. 275; p. 325.
Harris, Charles H. (See Wilcox, Charles M., assignor.)
Harris, Charles J. (See Sperling, Leopold N., assignor.)
Harris, David H., Kalamazoo, Mich. Truck-body. No. 1,354,187; Sept. 28; v. 278; p. 626.
Harris, Edgar W. (See Cook, R. M., and Harris.)
Harris, Edward. Los Angeles, Calif. Retread-vulcanizer. No. 1,353,042; Sept. 14; v. 278; p. 295.
Harris, Edward B., Hillsboro, Oreg. Wagon-brake. No. 1,342,381; June 1; v. 275; p. 149.
Harris, Elmer E., Memphis, Tenn. Auto-valve lifter. No. 1,343,130; June 8; v. 275; p. 351.
Harris, Ernest G., North Vancouver, British Columbia, Canada. Dry-pipe valve for sprinkler systems. No. 1,343,776; June 15; v. 275; p. 541.
Harris, Evan W. (See Cowan, Charles G., assignor.)
Harris, Frank, Jefferson City, Mo. Coat-hanger. No. 1,356,448; Oct. 19; v. 279; p. 486.
Harris, George H., assignor to Utica Valve and Fixture Company, Utica, N. Y. Gas-cock. No. 1,339,882; May 11; v. 274; p. 307.
Harris, George H., and W. P. Jackson, Oakland, Calif. Fare-zone check. No. 1,356,621; Oct. 26; v. 279; p. 566.
Harris, George W., Liberal, Kans. Revolving reversible joint. No. 1,363,113; Dec. 21; v. 281; p. 519.
Harris, Grover D., Menasha, Wis., assignor to U. S. Tractor & Machinery Company. Centrifugally-governed clutch-pulley. (Reissue.) No. 14,857; May 18; v. 274; p. 549.
Harris, Harold H., Wilmington, N. C. Drain-board. No. 1,327,039; Jan. 6; v. 270; p. 30.
Harris, Harold W., Jr., Roanoke, Va. Bag-holder. No. 1,356,142; Oct. 19; v. 279; p. 426.
Harris, Harry. (See Maloney, Henry P., assignor.)
Harris, Harry L. (See Payne, Lawrence C., assignor.)
Harris, Henry K., Westminster, London, England. Electrical transmitting apparatus. No. 1,335,578; Mar. 30; v. 272; p. 860.
Harris, Herbert A., Pittsburgh, Pa., assignor to Beardslee Chandelier Manufacturing Company, Chicago, Ill. Lighting-fixture. No. 1,332,214; Mar. 2; v. 272; p. 7.
Harris, Isaac, Detroit, Mich. Telltale spark-plug. No. 1,343,626; June 15; v. 275; p. 511.
Harris, James W., Turbeville, S. C. Corn-cleaner. No. 1,328,872; Jan. 27; v. 270; p. 501.
Harris, Jesse, assignor to Duncan Electric Manufacturing Company, La Fayette, Ind. Electricity-meter. No. 1,332,464; Mar. 2; v. 272; p. 55.
Harris, Jesse, assignor to Duncan Electric Manufacturing Company, La Fayette, Ind. Bearing. No. 1,332,465; Mar. 2; v. 272; p. 55.
Harris, John, Lakewood, Ohio, assignor of one-half to J. R. Rose, Pittsburgh, Pa. Gas for cutting and welding purposes. No. 1,329,400; Feb. 3; v. 271; p. 10.
Harris, John, Lakewood, Ohio, assignor of one-half to J. R. Rose, Edgeworth, Pa. Welding-rod. No. 1,358,311; Nov. 9; v. 280; p. 275.
Harris, John, Lakewood, Ohio, assignor of one-half to J. R. Rose, Edgeworth, Pa. Blowpipe for welding-machines. No. 1,359,504; Nov. 23; v. 280; p. 600.
Harris, Jonathan W., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-transmitter mouthpiece. No. 1,334,093; Mar. 16; v. 272; p. 475.
Harris, Jonathan W., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Joining materials. No. 1,359,594; Nov. 23; v. 280; p. 618.
Harris, Joseph D., assignor to McCord Manufacturing Company, Detroit, Mich. Closure for the water-tanks of radiators. No. 1,363,251; Dec. 28; v. 281; p. 587.
Harris, Julius G., Philadelphia, Pa. Combined motion-picture and talking machine. No. 1,354,742; Oct. 5; v. 279; p. 58.
Harris, Luther F., Farmville, N. C. Fertilizer-distributer. No. 1,329,597; Feb. 3; v. 271; p. 48.
Harris, Moses H. (See Frank, Isaiah, assignor.)
Harris, Moses H., New York, N. Y. Vending-machine. No. 1,336,743; Apr. 13; v. 273; p. 257.
Harris, Ralph L., Northampton, Mass. Accident-preventing bottle-closure. No. 1,355,092; Oct. 5; v. 279; p. 128.
Harris, Ralph W., Newark, Ohio. Automobile attachment. No. 1,337,555; Apr. 20; v. 273; p. 485.
Harris, Raymond J., Camp Travis, Tex. Sanitary fly catcher and trap. No. 1,346,021; July 6; v. 276; p. 137.
Harris, Richard C., Fallon, Nev. Fastener for mower guard-fingers. No. 1,357,165; Oct. 26; v. 279; p. 673.
Harris, Varian M., assignor, by mesne assignments, to Popular Reflex Camera Corporation, Chicago, Ill. Reflex camera. No. 1,352,449; Sept. 14; v. 278; p. 176.
Harris, William J. B., Bonham, Tex. Safe-lock. No. 1,337,554; Apr. 20; v. 273; p. 485.
Harris, William K., Harmersville, N. J., assignor to Salem Manufacturing Company, Salem, N. J. Block-printing machine. No. 1,333,308; Mar. 9; v. 272; p. 266.
Harris, William L., Kansas City, Mo. Dead-center device. No. 1,341,849; June 1; v. 275; p. 47.
Harris, William O., Huntsville, Ala. Dressing for leather and painted and varnished surfaces. No. 1,329,968; Feb. 3; v. 271; p. 117.
Harris, William S., Bremerton, Wash. Automobile-signal. No. 1,362,531; Dec. 14; v. 281; p. 355.
Harris, William T., Virgilina, Va., and L. F. Hamme, Oxford, N. C. Cotton-picker. No. 1,334,869; Mar. 23; v. 272; p. 578.
Harris, William T., Charlottesville, Va. Feed-water heater and exhaust-steam conserver. No. 1,337,556; Apr. 20; v. 273; p. 485.
Harris, William W., New York, N. Y. Can piercing and serving device. No. 1,330,803; Feb. 17; v. 271; p. 372.
Harris, William W., New York, N. Y. Bottle-closure. No. 1,355,394; Oct. 12; v. 279; p. 240.
Harris, William W., Detroit, Mich. Priming-cup. No. 1,339,883; May 11; v. 274; p. 307.
Harris, William W., Detroit, Mich. Priming-cup. No. 1,339,884.; May 11; v. 274; p. 307.
Harrison, Arthur B., New York, N. Y. Waterproof fabric and producing same. No. 1,347,095; July 20; v. 276; p. 469.
Harrison, Arthur C., Alsager, England. Sifter for trenting potters' slip, powdered substances, and the like. No. 1,346,452; July 13; v. 276; p. 284.
Harrison, Arthur W., Boston, Mass. Method of and machine for applying stops to insulator-attaching members. No. 1,361,724; Dec. 7; v. 281; p. 149.
Harrison, Charles P., Millcreek township, Erie county, assignor to Modern Tool Company, Erie, Pa. Die. No. 1,331,498; Feb. 24; v. 271; p. 523.
Harrison, Elmer F., Arthur, Ill. Gathering apparatus. No. 1,337,452; Apr. 20; v. 273; p. 465.
Harrison, Francis, London, England. Removing film from used metallic-filament electric lamps. No. 1,353,654; Sept. 21; v. 278; p. 476.
Harrison, Francis, assignor to The Aladdin & Renew Electric Lamp Corporation, Limited, London, England. Electric incandescent lamp. No. 1,362,303; Dec. 14; v. 281; p. 311.
Harrison, Frederick J., Indianapolis, Ind. Tool. No. 1,348,413; Aug. 3; v. 277; p. 56.
Harrison, G. B., and A. L. Rawlings, Slough, England, assignors to The Sperry Gyroscope Company, Brooklyn, N. Y. Gyroscopic compass. No. 1,359,368; Nov. 16; v. 280; p. 528.
Harrison, Geoffrey B., and A. L. Rawlings, Slough, England, assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Gyroscopic compass. No. 1,362,940; Dec. 21; v. 281; p. 485.
Harrison, George, Jr., assignor to The Bassick Company, Bridgeport, Conn. Lock for automobile-doors. No. 1,354,104; Sept. 28; v. 278; p. 610.
Harrison, George, and E. G. S. Bennett, Moose Jaw, Saskatchewan, Canada. Retort. No. 1,363,588; Dec. 28; v. 281; p. 652.
Harrison, George L., East Cleveland, Ohio, assignor to The Cleveland Metal Products Company, Cleveland, Ohio. Cooking utensil. No. 1,330,868; Feb. 17; v. 271; p. 384.
Harrison, Haydn T., Westminster, England. Electric-arc lamp. No. 1,355,334; Oct. 12; v. 279; p. 228.
Harrison, Henry C., assignor to Western Electric Company, Incorporated, New York, N. Y. Receiver. No. 1,352,597; Sept. 14; v. 278; p. 206.
Harrison, Herbert C., assignor to Harrison Radiator Corporation, Lockport, N. Y. Radiator-unit. No. 1,336,136; Apr. 6; v. 273; p. 82.
Harrison, John W., Atlanta, Ga. Oil-indicator for crankcases of automobiles. No. 1,345,005; June 29; v. 275; p. 910.
Harrison, Joseph M. (See Landymore, J. W., and Harrison.)
Harrison, Mark, Denver, Colo. Socket-wrench. No. 1,334,154; Mar. 16; v. 272; p. 486.
Harrison, Poole, Kansas City, Mo., assignor to Standard Oil Company, Whiting, Ind. Apparatus for testing gasolene. No. 1,355,554; Oct. 12; v. 279; p. 271.

Digitized by Google

Harrison Radiator Corporation. (See Harrison, Herbert C., assignor.)
Harrison, Theodore M., Hawthorn, Melbourne, Victoria, Australia. Shaping of sheet metal. No. 1,329,969; Feb. 3; v. 271; p. 117.
Harrison, Ward, Cleveland, Ohio, assignor to General Electric Company. Illumination measuring device. No. 1,331,062; Feb. 17; v. 271; p. 422.
Harrison, William H. (See Wilbur, R. S., and Harrison.)
Harrison, William H., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,330,467; Feb. 10; v. 271; p. 241.
Harrison, William H., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,337,471; Apr. 20; v. 273; p. 469.
Harrison, William M. (See Krutsch, Willis W., assignor.)
Harriss, James B., Newark, N. J. Method of and apparatus for separating leaves. No. 1,328,733; Jan. 20; v. 270; p. 445.
Harriss, James B., Newark, N. J. Method and apparatus for separating leaves from packages. No. 1,328,734; Jan. 20; v. 270; p. 446.
Harriss, James B., Newark, N. J. Method and apparatus for separating leaves from packages. No. 1,328,735; Jan. 20; v. 270; p. 446.
Harriss, James B., Newark, N. J., assignor to P. Lorillard Company, New York, N. Y. Wrapper-applying mechanism. No. 1,350,608; Aug. 24; v. 277; p. 654.
Harrod, Andrew C., Newark, Ohio. Resilient tire. No. 1,362,694; Dec. 21; v. 281; p. 438.
Harrop, Carl B., Columbus, Ohio. Method and apparatus for burning clay ware. No. 1,338,771; May 4; v. 274; p. 23.
Harroun Motors Corporation. (See Harroun, Ray, assignor.)
Harroun, Ray, Highland Park, assignor to Harroun Motors Corporation, Wayne, Mich. Fan adjustment. No. 1,348,002; July 27; v. 276; p. 706.
Harsel, William B., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire-making machine. No. 1,327,910; Jan. 13; v. 270; p. 254.
Harshfield, John, Sutherland, Nebr. Liquid composition for the treatment of binding-twine. No. 1,347,508; July 27; v. 276; p. 608.
Hart, Albert A., Richmond, Calif. Hose-coupling. No. 1,339,620; May 11; v. 274; p. 257.
Hart, Alice M., London, England. Preparing a dye base. No. 1,362,879; Dec. 21; v. 281; p. 474.
Hart, Austin H., Bronxville, N. Y., assignor to Deposited Metal Products Company. Radiator. No. 1,328,151; Jan. 13; v. 270; p. 300.
Hart, Charles A., Seattle, Wash. Oil-burner. No. 1,346,373; July 13; v. 276; p. 268.
Hart, Clarence B., Brooklyn, N. Y. Game. No. 1,331,196; Feb. 17; v. 271; p. 446.
Hart, Edward W., assignor to Morris Cash and Credit Register Company, Omaha, Nebr. Paper-feed for manifolding-machines. No. 1,363,508; Dec. 28; v. 281; p. 636.
Hart, Edward W., assignor to Morris Cash and Credit Register Company, Omaha, Nebr. Automatic reversing mechanism for ink-ribbons. No. 1,363,509; Dec. 28; v. 281; p. 636.
Hart, Emil H., Little Rock, Ark. Wrench. No. 1,354,552; Oct. 5; v. 279; p. 21.
Hart, Franklin H., New Haven, Conn. Curtain-fastener. No. 1,349,569; Aug. 17; v. 277; p. 406.
Hart, Franklin H., assignor to C. Cowles & Co., New Haven, Conn. Lock for vehicle-doors. No. 1,351,568; Aug. 31; v. 277; p. 904.
Hart, Franklin H., assignor to C. Cowles & Company, New Haven, Conn. Electric cigar-lighter tip. No. 1,359,369; Nov. 16; v. 280; p. 528.
Hart, Fred V., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Stacking mechanism. No. 1,344,034; June 22; v. 275; p. 657.
Hart, Fred V., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Means for feeding articles in stacked relation. No. 1,352,744; Sept. 14; v. 278; p. 236.
Hart, Fred V., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Means for feeding articles in stacked relation. No. 1,352,745; Sept. 14; v. 278; p. 236.
Hart, Fred V., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Feed mechanism. No. 1,352,746; Sept. 14; v. 278; p. 236.
Hart, Fred V., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Feed mechanism. No. 1,352,747; Sept. 14; v. 278; p. 236.
Hart, Fred V., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Feed mechanism. No. 1,352,748; Sept. 14; v. 278; p. 236.
Hart, Fred V., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Making heels. No. 1,361,053; Dec. 7; v. 281; p. 14.
Hart, Frederick A., Newark, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,338,014; Apr. 27; v. 273; p. 642.
Hart, Frederick A., Newark, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,339,704; May 11; v. 274; p. 273.
Hart, Frederick A., Newark, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,356,279; Oct. 19; v. 279; p. 453.
Hart, Frederick A., Newark, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,356,525; Oct. 26; v. 279; p. 548.
Hart, Frederick A., Newark, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Typewriting-machine. No. 1,357,557; Nov. 2; v. 280; p. 66.
Hart, Frederick A., New Britain, Conn., assignor to Underwood Computing Machine Company, New York, N. Y. Typewriting-machine. No. 1,355,395; Oct. 12; v. 279; p. 240.
Hart, George H., Hartford, Conn. Switch. No. 1,335,499; Mar. 30; v. 272; p. 845.
Hart, George H., Hartford, Conn. Electric-heater faucet. No. 1,357,287; Nov. 2; v. 280; p. 17.
Hart, Granville M., and J. E. Wall, Plano, Tex. Cotton-chopper. No. 1,343,777; June 15; v. 275; p. 541.
Hart, Harry S., assignor to National Dump Car Co., Chicago, Ill. Door-operating mechanism. (Reissue.) No. 14,785; Jan. 6; v. 270; p. 186.
Hart & Hegeman Manufacturing Company, The. (See Foster, U. D., and Litke, assignors.)
Hart & Hegeman Manufacturing Company, The. (See Guett, Monroe, assignor.)
Hart & Hegeman Manufacturing Company, The. (See Stirling, Clarence C., assignor.)
Hart, Helen C., executrix. (See Genter, Jacob H.)
Hart, Henry. (See George, C. L., and Hart.)
Hart, Herbert G. (See Dotti, J., and Hart.)
Hart, Hubert C., Unionville, Conn. Article of cutlery. No. 1,332,254; Mar. 2; v. 272; p. 15.
Hart, Hubert C., Unionville, Conn. Article of cutlery. No. 1,332,255; Mar. 2; v. 272; p. 15.
Hart, Hubert C., Unionville, Conn. Handle construction. No. 1,332,256; Mar. 2; v. 272; p. 15.
Hart, Hubert C., Unionville, Conn. Polishing and buffing metal articles. No. 1,352,598; Sept. 14; v. 278; p. 206.
Hart, James M., Portland, Oreg. Game-cards. No. 1,357,166; Oct. 26; v. 279; p. 673.
Hart, John H., Bennington, Vt. Sailboat. No. 1,336,226; Apr. 6; v. 273; p. 98.
Hart, Lawrence H., Maypearl, Tex. Tractor-coupling. No. 1,362,863; Dec. 21; v. 281; p. 471.
Hart, Morris C., Moville, Iowa. Automobile-tire chain. No. 1,338,772; May 4; v. 274; p. 23.
Hart, Norton W., Hart, Ga. Cranking device. No. 1,330,530; Feb. 10; v. 271; p. 253.
Hart, Raymond S. (See Waltman, Walter M., assignor.)
Hart, Richard, Milwaukee, assignor to A. A. Raloff, Jr., Thiensville, Wis. Leather-flexing machine. No. 1,355,965; Oct. 19; v. 279; p. 390.
Hart, Schaffner & Marx. (See Gutstein, Joseph, assignor.)
Hart, Stanley D., *et al.* (See Bridges, William H., assignor.)
Hart, Walter V., assignor to S. F. Williams, Jacksonville, Fla. Box-press. No. 1,352,749; Sept. 14; v. 278; p. 237.
Hartdorn, Louis G., Brooklyn, N. Y. Horn. No. 1,339,559; May 11; v. 274; p. 245.
Hartelt, Adolf. (See Heller, F., and Hartelt.)
Hartenberger, Robert, Sheboygan Falls, Wis. Ventilated silo. No. 1,350,501; Aug. 24; v. 277; p. 633.
Harter, Al, Los Angeles, Calif. Amalgamator. No. 1,336,697; Apr. 13; v. 273; p. 248.
Harter, Godfrey, London, England. Construction of ships. No. 1,359,059; Nov. 16; v. 280; p. 469.
Harter Manufacturing Company. (See Harter, Marion H., assignor.)
Harter, Marion H., assignor to Harter Manufacturing Company, Minneapolis, Minn. Flexible power-transmission mechanism. No. 1,330,869; Feb. 17; v. 271; p. 384.
Harter, Noah S., assignor to Cyclone Fence Company, Waukegan, Ill. Belt conveyer. No. 1,354,553; Oct. 5; v. 279; p. 21.
Hartford, Edward V. (See Ruggles, William G., assignor.)
Hartford, Edward V., Co. (See Kuhsiek, Albert J. H., assignor.)
Hartford, Edward V., Inc. (See Kulfsiek, Albert J. H., assignor.)
Hartford, Edward V., Inc. (See Mayer, Arthur, assignor.)
Hartford, Edward V., Deal, N. J. Golf-club. No. 1,331,499; Feb. 24; v. 271; p. 523.
Hartford, Edward V., Deal, N. J. Shock-absorber. No. 1,343,970; June 22; v. 275; p. 644.
Hartford, Edward V., Deal, N. J. Electrothermostatic-controlled mechanism. No. 1,349,954; Aug. 17; v. 277; p. 480.
Hartford-Fairmont Company. (See Ferngren, Enoch T., assignor.)

Digitized by Google

Hartford-Fairmont Company. (See Genest, Homer A., assignor.)
Hartford-Fairmont Company. (See Honiss, William H., assignor.)
Hartford-Fairmont Company. (See Hunter, Alfred R. assignor.)
Hartford-Fairmont Company. (See Peiler, K. E., and Lorenz, assignors.)
Hartford-Fairmont Company. (See Peiler, Karl E., assignor.)
Hartford Rubber Works Company, The. (See Fisher, George F., assignor.)
Hartford Rubber Works Company. (See Fothergill, Edmund W., assignor.)
Hartford Rubber Works Company, The. (See Shea, John J., assignor.)
Hartford Storage Battery Manufacturing Company, The. (See Barhoff, Fred W., assignor.)
Hartill-Law, William, assignor to Beamless Car Truck Self-Adjusting Brake Company, Minneapolis, Minn. Brake mechanism for cars. No. 1,344,129; June 22; v. 275; p. 675.
Hartley, Arthur J., Peoria, Ill. Support and gearing for swinging conveyers. No. 1,327,469; Jan. 6; v. 270; p. 109.
Hartley, Charles C. (See Redfield, C., and Hartley.)
Hartley, Ralph V. L., New York, N. Y., assignor, by mesne assignments, to Western Electric Company, Incorporated. Oscillation-generator. No. 1,356,763; Oct. 26; v. 279; p. 594.
Hartley, Ralph V. L., Brooklyn, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y. Reduction of distortion of signaling-currents. No. 1,360,740; Nov. 30; v. 280; p. 912.
Hartlieb, John G., Pittsburgh, Pa. Film-clip. No. 1,335,579; Mar. 30; v. 272; p. 860.
Hartman, Charles, Sandwich, Ill., assignor to Sandwich Manufacturing Company. Hay-loader. No. 1,353,586; Sept. 21; v. 278; p. 462.
Hartman, Elies E., New York, N. Y. Foldable bed. No. 1,348,944; Aug. 10; v. 277; p. 209.
Hartman, George E., Camden, N. J. Toothbrush. No. 1,360,292; Nov. 30; v. 280; p. 824.
Hartman, Harry A. (See Davis and Hartman.)
Hartman, Harry A. (See Davis, H. E., and Hartman.)
Hartman, Harry B., assignor to Electric Water Steriliser and Ozone Company, Scottdale, Pa. Ozone water purifying apparatus. No. 1,363,589; Dec. 28; v. 281; p. 652.
Hartman, John, Milwaukee, Wis. Slicing-machine. No. 1,333,252; Mar. 9; v. 272; p. 256.
Hartman, John W., Houston, Tex., assignor of one-half to H. T. Dobbins, Lafayette, La. Engineer's safety throttle for locomotive dry pipes. No. 1,358,844; Nov. 16; v. 280; p. 427.
Hartman, Louis H., Toledo, and C. H. Hartman, Woodville, assignors to The Valve Bag Company, Toledo, Ohio. Bag-making machine. No. 1,355,966; Oct. 19; v. 279; p. 391.
Hartman, Maurice. (See Wachtel, Charles, assignor.)
Hartman, Noble W., Toledo, Ohio. Motor-car windlassing-tackle. No. 1,333,755; Mar. 16; v. 272; p. 412.
Hartman, Peter B., Watertown, N. Y. Automobile-horn. No. 1,351,904; Sept. 7; v. 278; p. 38.
Hartman, Thomas L., Pittsburgh, Pa. Temperature-equalizing coil. No. 1,331,429; Feb. 17; v. 271; p. 490.
Hartman-Townsend Company. (See Townsend, Delbert G., assignor.)
Hartman, William H., Philadelphia, Pa., and G. W. Borton, Haddonfield, N. J., assignors to Pennsylvania Crusher Company, Philadelphia, Pa. Cage-adjusting mechanism for crusher-machines. No. 1,361,054; Dec. 7; v. 281; p. 15.
Hartman, William L., Palmyra, Ind. Table attachment for bedsteads. No. 1,347,271; July 20; v. 276; p. 505.
Hartmann, Carl, Rochester, N. Y., assignor to Gould Coupler Company. Dynamo-mounting. No. 1,344,945; June 29; v. 275; p. 899.
Hartmann, Carl, Rochester, N. Y., assignor to Gould Coupler Company. Dynamo-mounting. No. 1,344,946; June 29; v. 275; p. 899.
Hartmann, Max, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Mercury compounds of glucosids and making same. No. 1,354,105; Sept. 28; v. 278; p. 610.
Hartmann, Max, and E. Wybert, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Thienylquinolin carboxylic acids. No. 1,350,408; Aug. 24; v. 277; p. 614.
Hartog, S. D., Manufacturing Company. (See Hartog, Stephen D., assignor.)
Hartog, Stephen D., assignor to S. D. Hartog Manufacturing Company, St. Louis, Mo. Manufacturing pistonrings. No. 1,329,271; Jan. 27; v. 270; p. 576.
Hartog, Stephen D., assignor to S. D. Hartog Manufacturing Company, St. Louis, Mo. Chucking device for pistons. No. 1,331,918; Feb. 24; v. 271; p. 603.
Hartog, Stephen D., assignor to S. D. Hartog Manufacturing Company, St. Louis, Mo. Piston-ring. No. 1,337,651; Apr. 20; v. 273; p. 503.
Hartog, Stephen D., assignor to S. D. Hartog Manufacturing Company, St. Louis, Mo. Valve-facing tool. No. 1,352,599; Sept. 14; v. 278; p. 206.
Hartog, Stephen D., assignor, by mesne assignments, to Inland Machine Works, St. Louis, Mo. Making pistonrings. No. 1,361,989; Dec. 14; v. 281; p. 249.
Hartshorn, Carr. (See Blackledge, John T., assignor.)
Hartshorn, Willis N., Racine, Wis. Drying, mixing, and kneading machine. No. 1,345,542; July 6; v. 276; p. 43.
Hartsock, Sherman C., assignor to D. M. Sechler Implement & Carriage Company, Moline, Ill. Fertilizer-distributer. No. 1,354,645; Oct. 5; v. 279; p. 40.
Hartsock, Sherman C., assignor to D. M. Sechler Implement & Carriage Company, Moline, Ill. Coupling. No. 1,357,049; Oct. 26; v. 279; p. 650.
Hartsook, Fred, Inc. (See Rennick, Lyle S., assignor.)
Hartsough, D. Maurice, assignor to Bull Tractor Company, Minneapolis, Minn. Tractor. No. 1,358,730; Nov. 16; v. 280; p. 404.
Hartsough, Oliver C. (See Griffin, W. H., and Hartsough.)
Hartsough, Ralph B., Minneapolis, Minn. Tractor. No. 1,348,003; July 27; v. 276; p. 706.
Hartung, Felix. (See Pihlfeldt, T. G., and Hartung.)
Hartung, Felix, assignor of one-half to T. G. Pihlfeldt, Chicago, Ill. Spring-oiling device. No. 1,332,831; Mar. 2; v. 272; p. 125.
Hartung, Felix C. (See Pihlfeldt, T., and Hartung.)
Hartung, Robert F., Chicago, Ill. Ship construction. No. 1,343,392; June 15; v. 275; p. 465.
Hartung, William R., Connell, Wash., assignor to The Thomas Manufacturing Company, Springfield, Ohio. Gearing for grain-drills. No. 1,329,901; Feb. 3; v. 271; p. 104.
Hartwell, Jean F. (See Coats, F. R., and Hartwell.)
Hartwick Ernest F., assignor to Fruehauf Trailer Company, Detroit, Mich. Fifth-wheel. No. 1,351,245; Aug. 31; v. 277; p. 840.
Hartwig, Rudolf, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Arrangement of track for railway-guns. No. 1,361,460; Dec. 7; v. 281; p. 97.
Hartwig, William J. (See Collins, Edward W., assignor.)
Hartwig, William J. (See Cullin, Jasper F., assignor.)
Hartzell, A. F. (See Gay, George L., assignor.)
Hartzell, Amos F., Knoxville borough, assignor to Standard Oven Company, Pittsburgh, Pa. Manufacture of baked goods. No. 1,350,278; Aug. 17; v. 277; p. 543.
Hartzell, Forest H. (See Wagner, F. A., and Hartzell.)
Harvard, Everett E., Los Angeles, Calif. Fingering mechanism for wind instruments. No. 1,332,336; Mar. 2; v. 272; p. 80.
Harvey, Alden W. *et al.* (See Erik, Emil, assignor.)
Harvey, Corbin L., assignor to Moon-Hopkins Billing Machine Company, St. Louis, Mo. Paper-support for combined adding and typewriting machines. No. 1,336,886; Apr. 13; v. 273; p. 275.
Harvey, Frank J., Des Moines, Iowa. Auto-lock. No. 1,341,055; May 25; v. 274; p. 657.
Harvey Frost & Company Limited. (See Welch, Walter H., assignor.)
Harvey, George T., Halstead, Kans. Repair-plug for pipes. No. 1,340,167; May 18; v. 274; p. 418.
Harvey, Gerald H., Boise, Idaho. Vehicle-lighting device. No. 1,359,804; Nov. 23; v. 280; p. 660.
Harvey, Henry C., Huntington, W. Va. Self-serving store. No. 1,350,996; Aug. 24; v. 277; p. 728.
Harvey, Herbert, Oakland, Calif. Weighing-machine. No. 1,327,553; Jan. 6; v. 270; p. 126.
Harvey, Leo M., Los Angeles, Calif. Revolving tool. No. 1,354,828; Oct. 5; v. 279; p. 76.
Harvey, Leo M., Los Angeles, Calif. Vehicle-window. No. 1,357,167; Oct. 26; v. 279; p. 673.
Harvey, Leonard C., Malden, England. Electrically-heated melting-furnace. No. 1,337,839; Apr. 20; v. 273; p. 539.
Harvey, Lindsey, Collins, Miss. Railway-switch. No. 1,341,554; May 25; v. 274; p. 754.
Harvey, Louis B., Buffalo, N. Y. Air-valve hand-hole plate for disk wheels. No. 1,338,177; Apr. 27; v. 273; p. 673.
Harvey, Peter L., Chicago, Ill. Flying-machine. No. 1,351,905; Sept. 7; v. 278; p. 39.
Harvey, Sam M. (See White, William, assignor.)
Harvey, Stanley T., Vancouver, British Columbia, Canada. Advertising display device. No. 1,337,315; Apr. 20; v. 273; p. 440.
Harvey, Walter J., Toronto, Ontario, Canada. Light-controlling device. No. 1,335,832; Apr. 6; v. 273; p. 24.
Harvey, Wilbur E., Glenshaw, Pa. Controlling proportions of pulverized-fuel mixture. No. 1,348,561; Aug. 3; v. 277; p. 84.
Harvey, William A., Scranton, Pa. Electrical appliance. No. 1,339,847; May 11; v. 274; p. 300.
Harvey, William A., Scranton, Pa. Branch connector for electric conductors. No. 1,358,731; Nov. 16; v. 280; p. 405.
Harvie, William J., Auburn, N. Y. Mechanical ticket-taker. No. 1,335,963; Apr. 6; v. 273; p. 49.

Digitized by Google

Harwood, John, Berea, Ky., assignor of one-half to J. D McColm, Huntington, W. Va. Producing duplicate patterns in granite. No. 1,349,955; Aug. 17; v. 277; p. 480.
Harwood, Leon C. (See Cheney, G. M., and Harwood.)
Harwood, Leon M., Springfield, Mass. Method and apparatus for packaging metallic leaf. No. 1,360,741; Nov. 30; v. 280; p. 912.
Harwood, Sumpter L., assignor of one-half to T. R. Long, Uniontown, Ala. Paste-dispensing device. No. 1,353,747; Sept. 21; v. 278; p. 494.
Harwood, Walter F., Richmond, Va. Tire-shipping crate. No. 1,355,042; Oct. 5; v. 279; p. 118.
Harza, Leroy F, Chicago, Ill. Hydromotive unit. No. 1,362,304; Dec. 14; v. 281; p. 311.
Hasbrook, Roy, New York, N. Y. Sanitary teeth-cleaner. No. 1,346,125; July 13; v. 276; p. 219.
Hasbrouck, Charles H. (See McCabe, Thomas W. R., assignor.)
Hasbrouck, Charles H., Binghamton, N. Y. Machine for protecting checks and the like. No. 1,357,090; Oct. 26; v. 279; p. 658.
Hasbrouck, Louis B., Elmira, N. Y. Starter for internal-combustion engines. No. 1,327,276; Jan. 6; v. 270; p. 74.
Hasburg, John W., Chicago, Ill. Staining glass. No. 1,328,833; Jan. 27; v. 270; p. 493.
Husburg, John W., Chicago, Ill. Staining glazed ceramic ware. No. 1,334,301; Mar. 23; v. 272; p. 560.
Haschke, Feodor G., assignor of one-half to J. C. Wall, Austin, Tex. Live-bait bucket. No. 1,327,040; Jan. 6; v. 270; p. 31.
Hase, Takebe, San Francisco, Calif. Collar construction. No. 1,350,600; Aug. 24; v. 277; p. 655.
Haseltine, Stacy B., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Tandem shock-absorbing mechanism. No. 1,355,967; Oct. 19; v. 279; p. 391.
Haseltine, Stacy B., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Yoke for draft-riggings. No. 1,355,968; Oct. 19; v. 279; p. 391.
Haseltine, Stacy B., assignor to W. H. Miner, Chicago, Ill. Tandem draft-rigging for railway-cars. No. 1,357,776; Nov. 2; v. 280; p. 110.
Hasendahl, Walter, San Francisco, Calif., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Pulverizer. No. 1,355,335; Oct. 12; v. 279; p. 228.
Hash, Lee. (See Coyne, A., and Hash.)
Hashimoto, Soiohi, Yuba City, Calif. Aerial toy. No. 1,332,175; Feb. 24; v. 271; p. 650.
Haskelite Manufacturing Corporation. (See Basquin, Olin H., assignor.)
Haskelite Manufacturing Corporation. (See Fitzpatrick, James R., assignor.)
Haskelite Manufacturing Corporation. (See Haskell, H. L., and Beiger, assignors.)
Haskelite Manufacturing Corporation. (See Haskell, Henry L., assignor.)
Haskell, Henry L., Ludington, assignor to Haskelite Manufacturing Corporation, Grand Rapids, Mich. Boot or shoe sole. No. 1,343,450; June 15; v. 275; p. 476.
Haskell, Henry L., Ludington, Mich., assignor to Haskelite Manufacturing Corporation, Chicago, Ill. Aeroplane-body. No. 1,344,634; June 29; v. 275; p. 840.
Haskell, Henry L., Ludington, assignor to Haskelite Manufacturing Corporation, Grand Rapids, Mich. Aeroplane. No. 1,352,600; Sept. 14; v. 278; p. 207.
Haskell, Henry L., Ludington, and J. W. Beiger, Grand Rapids, Mich., assignor to Haskelite Manufacturing Corporation. Method of and apparatus for molding sheet material. No. 1,330,804; Feb. 17; v. 271; p. 372.
Haskell, Robert M. (See Gahl, R., and Haskell.)
Haskell, William E., assignor to Estey Organ Company, Brattleboro, Vt. Speaking-pipe. No. 1,327,996; Jan. 13; v. 270; p. 270.
Haslam, Samuel, Attleboro, Mass. Vanity-case. No. 1,354,970; Oct. 5; v. 279; p. 104.
Haslam & Stretton. (See Stretton, Theodore, assignor.)
Hasler A.-G. vormals Telegraphenwerkstatte von G. Hasler. (See Aberegg, O., and Kohler, assignors.)
Haslett, John T., Winchester, Kans. Wrench. No. 1,345,850; July 6; v. 276; p. 102.
Haslup, Hugh W., Toledo, Ohio. Fountain-pen. No. 1,341,850. June 1; v. 275; p. 47.
Hasprunar, Mathew, South Norwalk, Conn. Secret pocket. No. 1,360,395; Nov. 30; v. 280; p. 844.
Hass, Nelson R., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Cut-out relay. No. 1,327,951; Jan. 13; v. 270; p. 261.
Hasse, Franklin C., Congress Park, Ill. Rail-cutting device. No. 1,342,502; June 8; v. 275; p. 226.
Hassel, Nels H., Beverly Hills, Calif. Multiple muffler and control therefor. No. 1,332,663; Mar. 2; v. 272; p. 93.
Hassel, William G., Waterbury, Conn. Fuse remover and placer. No. 1,346,022; July 6; v. 276; p. 137.
Hasselbaum, Oscar H., Fresno, Calif. Timer for internal-combustion engines. No. 1,347,370; July 20; v. 276; p. 524.
Hasselgren, Axel, and D. R. Newman, Ansonia, Conn. Pencil-clip. No. 1,356,143; Oct. 19; v. 279; p. 426.
Hasselgren, Carl P., Superior, Wis. Flytrap. No. 1,358,150; Nov. 9; v. 280; p. 244.
Hassell, John A., Bisbee, Ariz. Folding flytrap. No. 1,359,060; Nov. 16; v. 280; p. 469.
Hasselquist, Hugo S. (See Wahl, J. C., Hasselquist, and Poole.)
Hasselquist, Hugo S., Oak Park, assignor to Collins Rotary Safety Razor Company, Chicago, Ill. Adjustable razor-blade guard. No. 1,334,534; Mar. 23; v. 272; p. 604.
Hasselstrom, Ivar S., Chicago, Ill., assignor, by mesne assignments, to McGill Manufacturing Company, Valparaiso, Ind. Feeding device for punch-presses. No. 1,346,089; July 6; v. 276; p. 151.
Hassett, David J. (See Schilling, A. P., and Hassett.)
Hassinger, Adolph T., Greenville, Wis. Milk and cream tester. No. 1,355,969; Oct. 19; v. 279; p. 391.
Hassinger, Adolph T., Chicago, Ill. Milk-tester. No. 1,355,970; Oct. 19; v. 279; p. 391.
Hasskarl, William S., Philadelphia, Pa. Stilt. No. 1,348,110; July 27; v. 276; p. 728.
Hasskarl, William S., Philadelphia, Pa. Drainer for dishes. No. 1,363,590; Dec. 28; v. 281; p. 652.
Hassler, Paul M., assignor to The Louden Machinery Company, Fairfield, Iowa. Track for overhead carriers. No. 1,346,313; July 13; v. 276; p. 257.
Hassler, Paul M., and A. H. Neller, assignors to The Louden Machinery Company, Fairfield, Iowa. Track for overhead carriers. No. 1,345,851; July 6; v. 276; p. 102.
Hasslinger, Konrad, New York, N. Y. Game device. No. 1,332,832; Mar. 2; v. 272; p. 126.
Hasson, James A., Philadelphia, Pa. Combination hair-cutter and safety-razor. No. 1,358,442; Nov. 9; v. 280; p. 303.
Hastam & Stretton Limited. (See Stratton, T., and Jones, assignors.)
Hasting, Homer, Detroit, Mich. Automatic electrically-fired ordnance. No. 1,335,500; Mar. 30; v. 272; p. 845.
Hasting, Thomas, Granfils Gap, Tex. Cotton-cleaning cultivator attachment. No. 1,332,833; Mar. 2; v. 272; p. 126.
Hastings, Cornelius G., Glendale, Calif. Carrier for surveying instruments. No. 1,344,947; June 29; v. 275; p. 899.
Hastings, Cornelius G., Glendale, Calif. Tamping-machine. No. 1,351,106; Aug. 31; v. 277; p. 812.
Hastings, Cornelius G., Glendale, Calif. Tamping-machine. No. 1,351,246; Aug. 31; v. 277; p. 840.
Hastings, Cornelius G., Glendale, Calif., assignor to Hastings Tunnel System Company. Tunnel-block. No. 1,337,767; Apr. 20; v. 273; p. 526.
Hastings, Cornelius G., Glendale, Calif., assignor to Hastings Tunnel System Company. Erecting-machine. No. 1,342,503; June 8; v. 275; p. 227.
Hastings, Hammond C., Rugby, England, assignor to General Electric Company. Electromagnetic switch. No. 1,331,063; Feb. 17; v. 271; p. 423.
Hastings, Hammond C., Rugby, England, assignor to General Electric Company. Electromagnetic switch. No. 1,331,064; Feb. 17; v. 271; p. 423.
Hastings, Harold P., and J. J. Dossert, assignors to Crouse-Hinds Company, Syracuse, N. Y. Electrical appliance. No. 1,345,768; July 6; v. 276; p. 86
Hastings, Herbert, assignor to German-American Button Co., Rochester, N. Y. Button-inspecting machine. No. 1,327,672; Jan. 13; v. 270; p. 209.
Hastings, James E., Athol, Mass. Micrometer. No. 1,348,875; Aug. 10; v. 277; p. 196.
Hastings Manufacturing Co. (See Johnson, Aben E., assignor.)
Hastings, Odie L. (See Iles, E. J., and Hastings.)
Hastings Ruben C. M., assignor to The International Telephone Company, Columbus, Ohio. Automatic selective telephone system. No. 1,334,452; Mar. 23; v. 272; p. 588.
Hastings, Ruben C. M., assignor to International Telephone Co., Columbus, Ohio. Telephone system. (Reissue.) No. 14,848; Apr. 27; v. 273; p. 768.
Hastings, Ruben C. M., assignor to The International Telephone Company, Columbus, Ohio. Telephonic call system. No. 1,345,852; July 6; v. 276; p. 103.
Hastings, Russell, Brookline, Mass. Device to prevent plant-pots from tipping over. No. 1,357,777; Nov. 2; v. 280; p. 110.
Hastings Tunnel System Company. (See Hastings, Cornelius G., assignor.)
Hatch, Edward R., Turley, Okla. Tool for replacing sucker-rods. No. 1,343,821; June 15; v. 275; p. 550.
Hatch, Robert D., San Francisco, Calif. Refrigerator-vehicle. No. 1,341,744; June 1; v. 275; p. 26.
Hatcher, Oscar M., and E. A. Bye, assignors to Mayer Brothers Company, Mankato, Minn. Combined drawbar and dynamometer. No. 1,361,990; Dec. 14; v. 281; p. 249.
Hatfield, Andrew L., Hillside, N. J. Split packing-ring. No. 1,359,170; Nov. 16; v. 280; p. 489.
Hatfield, Andrew L., assignor to The Strong Machinery & Supply Co., Hillside, N. J. Gage-glass guard. No. 1,354,296; Sept. 28; v. 278; p. 648.
Hatfield, Frank D. (See Savidge, A. C., and Hatfield.)

Digitized by Google

Hatfield, Henry S., and G. Hookham, Birmingham, England. Electrolytic meter. No. 1,346,090; July 6; v. 276; p. 151.

Hatfield, Joseph M., Independence, Kans. Can-covering. No. 1,353,236; Sept. 21; v. 278; p. 392.

Hatfield, Richard H., Brooklyn, N. Y. Means for synchronizing and harmonizing moving-picture exhibitions. No. 1,352,126; Sept. 7; v. 278; p. 80.

Hathaway, Edgar F., Dorchester, Mass. Loom reed cleaning and polishing machine. No. 1,328,563; Jan. 20; v. 270; p. 414.

Hathaway, Edgar F., and C. Lea, Boston, Mass., assignors, by mesne assignments, to Barber-Colman Company, Rockford, Ill. Warp-replenishing mechanism. No. 1,339,507; May 11; v. 274; p. 235.

Hathaway, Hosea, Brookline, Mass. Boring and slotting tool. No. 1,328,430; Jan. 20; v. 270; p. 388.

Hathaway, Hosea, Brookline, Mass. Registering weighing-scale. No. 1,336,351; Apr. 6; v. 273; p. 122.

Hathaway, Louis N., M. W. Twombly, and E. H. Hammond, Laconia, N. H. Cutter-bar. No. 1,347,330; July 20; v. 276; p. 516.

Hathaway, Thomas H. E., Chicago, Ill. Combined cabinet and table. No. 1,348,220; Aug. 3; v. 277; p. 18.

Hathorne, Sherman A., Waukegan, assignor to Chicago Hardware Foundry Company, North Chicago, Ill. Lunch-room table. No. 1,357,050; Oct. 26; v. 279; p. 651.

Hatmaker, William T., assignor to The Huffman Recording Pump Company, Dayton, Ohio. Liquid-dispensing pump. No. 1,352,664; Sept. 14; v. 278; p. 220.

Hatt, Joseph A. H., Brooklyn, N. Y. Color-filter negative and preparing same. No. 1,349,956; Aug. 17; v. 277; p. 480.

Hatten, William T., Hay Creek, Oreg. Ax-handle shield and fastening. No. 1,347,371; July 20; v. 276; p. 524.

Hauber, Mathias, Jr. (See Meadows, Hauber, and Charlton.)

Haubrich, Alexander M., Chicago, Ill., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Switchboard. No. 1,356,622; Oct. 26; v. 279; p. 566.

Hauck, Arthur E., New York, N. Y. Preheating-furnace for welding castings. No. 1,344,690; June 29; v. 275; p. 850.

Hauck, Joseph J., and W. H. Whyte, Calumet, Mich. Locomotive-wheel-blocking device. No. 1,356,358; Oct. 19; v. 279; p. 469.

Hauenstein, John. (See Lander, T. E., and Hauenstein.)

Hauenstein, Peter, *et al.* (See Kugler, James R., and E. W., assignors.)

Hauffe, Chester N., Columbus, Ohio. Tire-rim. No. 1,341,124; May 25; v. 274; p. 670.

Haug, Anton J., Nashua, N. H. Drawing-board. No. 1,354,743; Oct. 5; v. 279; p. 59.

Haug, Anton J., assignor to Improved Paper Machinery Company, Nashua, N. H. Paper-making machine. No. 1,343,505; June 15; v. 275; p. 487.

Haug, Peder B. (See Hanssen, R., Haug, and Darby.)

Haugen, Henry, Stoughton, Wis. Lawn-edge trimmer. No. 1,329,176; Jan. 27; v. 270; p. 558.

Haugh, Frank A., Winfield, Kans. Underreamer. No. 1,328,955; Jan. 27; v. 270; p. 517.

Haughton Elevator and Machine Co., The. (See Ohler, Frank L., assignor.)

Haughton Elevator & Machine Co., The. (See Thurston, Ernest B., assignor.)

Hauman, Alexander W., Cape Town, South Africa. Instrument for the removal of hemorrhoids and resection of prolapsus recti. No. 1,344,227; June 22; v. 275; p. 694.

Haun, Earl G., Marion, Ind. Sunken-boat detector. No. 1,350,224; Aug. 17; v. 277; p. 532.

Haunson, Percy D., Breckenridge, Minn. Amusement apparatus. No. 1,362,864; Dec. 21; v. 281; p. 472.

Haunsperger, Simon. (See Owens, Herbert B., assignor.)

Haunz, Charles F., Lancaster, N. Y., assignor to Gould Storage Battery Company. Battery element. No. 1,363,729; Dec. 28; v. 281; p. 679.

Haupt, Mathias, Spokane, Wash. Motor-vehicle. No. 1,353,393; Sept. 21; v. 278; p. 422.

Hausberg, Ernest, Charles City, Iowa. Electrically-operated typewriter. No. 1,328,736; Jan. 20; v. 270; p. 446.

Hauschild, George W. (See Burnwatt, W. W., and Hauschild.)

Hausdorf, Erich, Berlin, Germany. Telephone-receiver. No. 1,359,061; Nov. 16; v. 280; p. 469.

Hause, Vollie, Elkhart, Ind. Seal for cocks. No. 1,333,309; Mar. 9; v. 272; p. 266.

Hausen, Charles J., New York, N. Y. Hose-supporter. No. 1,361,793; Dec. 7; v. 281; p. 162.

Hauser, Albert H., Columbus, Ohio. Water-stop. No. 1,348,562; Aug. 3; v. 277; p. 84.

Hauser, Charles R., Denver, Colo. Cylinder-grinding apparatus. No. 1,359,699; Nov. 23; v. 280; p. 638.

Hauser, Henry J., Chicago, Ill. Drill-jig. No. 1,329,970; Feb. 3; v. 271; p. 117.

Hausfeld, Joseph E., Cincinnati, Ohio. Non-crucible furnace. No. 1,336,137; Apr. 6; v. 273; p. 82.

Hausman, B., Company, Inc. (See Hausmann, Bernard, assignor.)

Hausmann, Bernard, assignor to B. Hausman Company, Inc., New York, N. Y. Window. No. 1,331,842; Feb. 17; v. 271; p. 473.

Hauss, Hermann, Philadelphia, Pa. Building construction. No. 1,339,388; May 11; v. 274; p. 212.

Havana-American Co. (See Stern, Irving L., assignor.)

Havener, Arthur R., Waltham, Mass., assignor to American Lacing Hook Co. Lacing-hook-setting machine. No. 1,327,911; Jan. 13; v. 270; p. 254.

Havener, Arthur R., Wayland, Mass., assignor to Judson L. Thomson Mfg. Co. Feeding mechanism for rivet and cap setting machines. No. 1,333,414; Mar. 9; v. 272;

Havener, Arthur R., Wayland, Mass., assignor to Judson L. Thomson Mfg. Co. Machine for feeding circular rivet-caps and the like. No. 1,342,331; June 1; v. 275; p. 140.

Havens, Clara V., New York, N. Y. Brassière. No. 1,337,224; Apr. 20; v. 273; p. 423.

Havens, Clara V., New York, N. Y. Garment-fastener. No. 1,363,591; Dec. 28; v. 281; p. 653.

Havens, George F., Jackson, Mich. Collapsible wheel-rim. No. 1,360,947; Nov. 30; v. 280; p. 952.

Havens, Henry F., Sr., Hudson Falls, N. Y. Folding table. No. 1,339,389; May 11; v. 274; p. 212.

Havens, Ira C., Kalamazoo, Mich. Valve. No. 1,360,396; Nov. 30; v. 280; p. 844.

Havenstrite, Charles D., Chicago, Ill. Oscillating-type compressor. No. 1,346,404; July 13; v. 276; p. 273.

Havenstrite, Charles D., Chicago, Ill. Compressor. No. 1,349,199; Aug. 10; v. 277; p. 260.

Haverland, Frank J. L., Jr., Humphrey, Nebr. Auxiliary oiler for automobile-engines. No. 1,362,486; Dec. 14; v. 281; p. 346.

Haverty, John M., trustee. (See Brigel, Samuel G., assignor.)

Havey, Michael, Los Angeles, Calif. Nozzle-holder. No. 1,339,885; May 11; v. 274; p. 307.

Haviland, Wood. (See Zieche, Paul R., assignor.)

Havran, John, Portland, Oreg. Shade circuit-closer. No. 1,358,636; Nov. 9; v. 280; p. 341.

Hawe, Matthew. (See Brooks, James, assignor.)

Hawes, Charlie L., Ashtabula, Ohio. Self-lubricating bearing. No. 1,334,585; Mar. 23; v. 272; p. 604.

Hawk, Wayne K. (See Irwin, H. W., and Hawk.)

Hawkes, Frederic W., New York, N. Y. Implement-holder. No 1,340,224; May 18; v. 274; p. 428.

Hawkes, Lewis A. (See Mahony, William F., assignor.)

Hawkes, Maxim, Petroskey, Mich. Railway-tie. No. 1,333,178; Mar. 9; v. 272; p. 241.

Hawkes, Theron H., Jr., Duluth, Minn. Support. No. 1,332,834; Mar. 2; v. 272; p. 126.

p. 286.

Hawkes, William H., Nyack, N. Y. Sadiron-holder. No. 1,332,039; Feb. 24; v. 271; p. 626.

Hawkesworth, Arthur L., Butte, Mont. Drill. No. 1,328,325; Jan. 20; v. 270; p. 369.

Hawkins, Alda F., Fort Worth, Tex. Battery-terminal fastening. No. 1,349,957; Aug. 17; v. 277; p. 480.

Hawkins, Alda F., Fort Worth, Tex. Battery-terminal-fastening device. No. 1,355,396; Oct. 12; v. 279; p. 240.

Hawkins, Alda F., assignor to Standard Battery Manufacturing Company, Fort Worth, Tex. Battery-plate and terminal connection. No. 1,339,061; May 4; v. 274; p. 77.

Hawkins, Edgar M., assignor to M. D. Knowlton Company, Rochester, N. Y. Machine for making corrugated paper-board. No. 1,327,158; Jan. 6; v. 270; p. 52.

Hawkins, Edgar M., assignor to M. D. Knowlton Company, Rochester, N. Y. Machine for making corrugated paper-board. No. 1,357,453; Nov. 2; v. 280; p. 48.

Hawkins, Frank, Sittingbourne, England. Spring-button, dress-fastener, and the like. No. 1,343,506; June 15; v. 275; p. 487.

Hawkins, Frank, Sittingbourne, England. Hook-and-eye dress-fastening. No. 1,359,062; Nov. 16; v. 280; p. 469.

Hawkins, George L. (See Sullivan, D. C., Hawkins, and MacMillan.)

Hawkins, James E., Glendale, Calif. Refrigerator. No. 1,328,625; Jan. 20; v. 270; p. 425.

Hawkins, James E., Glendale, Calif. Can-punch. No. 1,338,800; Apr. 27; v. 273; p. 694.

Hawkins, Jesse. (See Sanders, John C., assignor.)

Hawkins, Jesse, Harrisburg, Pa. Hose-supporter. No. 1,335,384; Mar. 30; v. 272; p. 815.

Hawkins, John L., Cincinnati, Ohio, assignor to Armstrong Cork Company, Pittsburgh, Pa. Innersole for boots and shoes and making same. No. 1,348,644; Aug. 3; v. 277; p. 100.

Hawkins, Richard L., Neasden, London, England. Propelling-pencil and the like. No. 1,357,980; Nov. 9; v. 280; p. 210.

Hawkins, Rubin C., St. Louis, Mo. Water-valve gear for pumps. No. 1,338,448; Apr. 27; v. 273; p. 722.

Hawkins, Wilford J. (See Steele, Archie W., assignor.)

Hawkins, William E., Amityville, N. Y. Shade-holder. No. 1,335,437; Mar. 30; v. 272; p. 834.

Hawkinson, Paul E., assignor, by mesne assignments, to Kehawke Mfg. Co., Minneapolis, Minn. Tire-casing holder and spreader. No. 1,352,601; Sept. 14; v. 278; p. 207.

Digitized by Google

Hawkinson, Paul E., assignor, by mesne assignments, to Kehawke Mfg. Co., Minneapolis, Minn. Tire-casing spreader. No. 1,352,807; Sept. 14; v. 278; p. 249.
Hawks, Arthur S., assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Engine fuel-pump. No. 1,341,640; June 1; v. 275; p. 5.
Hawks, Moses L., New York, N. Y. Can-opener. No. 1,337,514; Apr. 20; v. 273; p. 477.
Hawksworth, David W., assignor to Hutchins Car Roofing Company, Detroit, Mich. Running-board saddle. No. 1,338,728; May 4; v. 274; p. 15.
Hawley, Burton S., Sparta, Wis. Bedstead. No. 1,327,554; Jan. 6; v. 270; p. 126.
Hawley, De Forest, Johnson City, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Thread-controlling mechanism. No. 1,347,810; July 27; v. 276; p. 668.
Hawley, George W., Bridgeport, Conn., assignor to The Kny-Scheerer Corporation. Adjustable spring-tractor. No. 1,363,114; Dec. 21; v. 281; p. 520.
Hawley, Lee F., Madison, Wis. Manufacture of wood-alcohol. No. 1,363,730; Dec. 28; v. 281; p. 679.
Hawley Pulp and Paper Company. (See Swick, Clyde E., assignor.)
Hawley, William G., assignor to American La France Fire Engine Company, Inc., Elmira, N. Y. Rotary pump. No. 1,362,621; Dec. 21; v. 281; p. 424.
Hawley, William L., North Little Rock, Ark. Wall-flashing. No. 1,337,840; Apr. 20; v. 273; p. 539.
Hawn, William L., assignor of one-half to A. Kavanagh, Kansas City, Mo. Mattress. No. 1,328,248; Jan. 13; v. 270; p. 318.
Hawrylink, Pite. (See Wason, George E., assignor.)
Haws, Alpheus G., Berkeley, Calif. Sanitary drinking-faucet. No. 1,344,948; June 29; v. 275; p. 900.
Hawthorne, Charles W., Buffalo, assignor of one-half to Wickwire Spencer Steel Corporation, Harriet, N. Y. Ingot-skid for ingot-heating furnaces. No. 1,361,254; Dec. 7; v. 281; p. 54.
Hawthorne Company, The. (See George, John H., assignor.)
Hawthorne, Ellsworth A., Bridgeport, Conn. Illuminating apparatus. No. 1,336,837; Apr. 13; v. 273; p. 275.
Hawthorne, Ellsworth A., Bridgeport, Conn. Lamp. No. 1,342,215; June 1; v. 275; p. 119.
Hawthorne, Ellsworth A., Bridgeport, Conn. Electrical connection. No. 1,353,748; Sept. 21; v. 278; p. 494.
Hawthorne, Ellsworth A., Bridgeport, Conn. Illuminating apparatus. No. 1,356,144; Oct. 19; v. 279; p. 426.
Hawthorne, Ellsworth A., Bridgeport, Conn. Lighting apparatus. No. 1,356,145; Oct. 19; v. 279; p. 426.
Hawthorne, Ellsworth A., Bridgeport, Conn. Illuminating apparatus. No. 1,361,852; Dec. 14; v. 281; p. 221.
Hawthorne, Louis A., Newark, N. J., assignor to Steel Utilities Incorporated. Labeling-machine. No. 1,345,006; June 29; v. 275; v. 910.
Hawthorne, Louis A., Newark, N. J., assignor to Steel Utilities Incorporated. Crating apparatus. No. 1,354,250; Sept. 28; v. 278; p. 639.
Hawthorne, Louis A., Newark, N. J., assignor to Steel Utilities Incorporated. Container-collecting station for crating-machines. No. 1,361,725; Dec. 7; v. 281; p. 150.
Hawvichorst, Henry J., Tulare, Calif. Pneumatic pump. No. 1,347,033; July 20; v. 276; p. 457.
Hawxhurst, Henry I., Sierra Madre, Calif. Carbureter. No. 1,362,305; Dec. 14; v. 281; p. 311.
Hay, Burpee M., *et al.* (See Fenwick, Joseph R., assignor.)
Hay, Charles E., Essex, England. Telegraphy. No. 1,357,199; Oct. 26; v. 279; p. 679.
Hay, Marley F., The Hague, Netherlands. Sighting instrument. No. 1,350,225; Aug. 17; v. 277; p. 532.
Hayden, Don H., Cleveland, Ohio. Switch-box. No. 1,328,993; Jan. 27; v. 270; p. 524.
Hayden, Edwin J., Minneapolis, Minn. Belt-buckle. No. 1,363,731; Dec. 28; v. 281; p. 679.
Hayden Manufacturing Company, The. (See Hayden, Willard A., assignor.)
Hayden, Willard A., assignor to The Hayden Manufacturing Company, Minneapolis, Minn. Demountable wheel-rim. No. 1,362,306; Dec. 14; v. 281; p. 311.
Hayden, Willard A., assignor to The Hayden Manufacturing Company, Minneapolis, Minn. Wheel-rim. No. 1,362,307; Dec. 14; v. 281; p. 312.
Haydenville Company, The. (See Blair, Peter W., assignor.)
Hayes, Albert, New York, N. Y., assignor to A. F. Ray, Woburn, Mass. Composite motor-fuel. No. 1,338,982; May 4; v. 274; p. 61.
Hayes, Albert, New York, N. Y., assignor to A. F. Ray, Woburn, Mass. Distilling. No. 1,338,983; May 4; v. 274; p. 61.
Hayes, Albert, assignor, by mesne assignments, to G. F. McKay, New York, N. Y. Charge-forming means for internal-combustion engines. No. 1,360,742; Nov. 30; v. 280; p. 913.
Hayes, Albert, assignor, by mesne assignments, to G. F. McKay, New York, N. Y. Forming and igniting explosive charges in internal-combustion engines. No. 1,360,743; Nov. 30; v. 280; p. 913.
Hayes, Albert, New York, N. Y., assignor, by mesne assignments, to U. S. Industrial Alcohol Co. Motor-fuel. No. 1,361,153; Dec. 7; v. 281; p. 34.
Hayes, Albert, New York, N. Y., assignor, by mesne assignments, to U. S. Industrial Alcohol Co. Forming a liquid fuel. No. 1,363,870; Dec. 28; v. 281; p. 707.
Hayes, Benjamin P., Kansas City, Mo. Clamp and guard for metal-shears. No. 1,330,186; Feb. 10; v. 271; p. 189.
Hayes, Benjamin P., assignor to Automatic Bookkeeping Register Company, Kansas City, Mo. Printer-table for registers and the like. No. 1,362,792; Dec. 21; v. 281; p. 458.
Hayes, Benjamin P., and F. D. Laughlin, assignors to Automatic Bookkeeping Register Company, Kansas City, Mo. Accounting-machine. No. 1,340,827; May 18; v. 274; p. 542.
Hayes, Benjamin P., and F. D. Laughlin, assignors to Automatic Bookkeeping Register Company, Kansas City, Mo. Printer-table for registers and the like. No. 1,362,791; Dec. 21; v. 281; p. 458.
Hayes, Edward, Lawrence, N. Y. Motor-lubricating system. No. 1,330,445; Feb. 10; v. 271; p. 237.
Hayes, Frank. (See Stine, Isaac D., assignor.)
Hayes, Harry W., Indianapolis, Ind. Artificial floating fly and hook. No. 1,336,227; Apr. 6; v. 273; p. 99.
Hayes, Harvey C., and G. W. Lewis, Swarthmore, assignors to The Tinius Olsen Testing Machine Company, Philadelphia, Pa. Recording device. No. 1,334,856; Mar. 23; v. 272; p. 665.
Hayes, Henry F., Jr. (See Smith, Winfield D., assignor.)
Hayes, Jeremiah, Everett, Wash. Stake-pocket. No. 1,344,393; June 22; v. 275; p. 727.
Hayes, John E., Brooklyn, N. Y. Fountain-pen. No. 1,335,580; Mar. 30; v. 272; p. 860.
Hayes, John P., and J. E. Barnhart, Pittsburgh, Pa. Automatic-circuit-breaker switchboard. No. 1,348,359; Aug. 3; v. 277; p. 45.
Hayes, Ora O., Minneapolis, Minn. Roof-peak. No. 1,347,541; July 27; v. 276; p. 614.
Hayes, Ora O., Minneapolis, Minn. Bending-machine. No. 1,354,481; Oct. 5; v. 279; p. 7.
Hayes, Peter T. (See Jeans and Hayes.)
Hayes, Robert D., assignor to Index Visible, Incorporated, New Haven, Conn. Index or file. No. 1,328,956; Jan. 27; v. 270; p. 517.
Hayes, Stephen Q., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-interrupting system. No. 1,352,451; Sept. 14; v. 278; p. 176.
Hayes, Thomas J., Roslindale, Mass., assignor to Arbetter Felling Machine Company, Boston, Mass. Work-presenting mechanism for sewing-machines. No. 1,333,310; Mar. 9; v. 272; p. 267.
Hayes, Thomas J., Roslindale, Mass., assignor to Arbetter Felling Machine Company, Boston, Mass. Needle-bar for blindstitch sewing-machines. No. 1,334,934; Mar. 23; v. 272; p. 681.
Hayes, Thomas J., Roslindale, Mass., assignor to Arbetter Felling Machine Company, Boston, Mass. Presser-foot mechanism for blindstitch sewing-machines. No. 1,341,233; May 25; v. 274; p. 691.
Hayes, Thomas R., and L. E. Kitson, Portland, Oreg. Ball-rack. No. 1,345,769; July 6; v. 276; p. 87.
Hayes, Walter H., London, England. Vaporizer for combustion-engines. No. 1,340,444; May 18; v. 274; p. 470.
Hayes, Walter H. London, England. Internal-combustion engine. No. 1,345,927; July 6; v. 276; p. 118.
Hayes, William, Cincinnati, Ohio. Machine for applying adhesive to trimming, and hanging wall-paper. No. 1,356,716; Oct. 26; v. 279; p. 585.
Hayes, William V., New York, N. Y. Blow-out patch. No. 1,352,957; Sept. 14; v. 278; p. 278.
Hayford, Eugene S., New Orleans, La. Pneumatic-tire inflator. No. 1,348,111; July 27; v. 276; p. 728.
Hayman, Isaac, Los Angeles, Calif. Hairpin. No. 1,341,980; June 1; v 275; p. 72.
Haynes, Charles M., Chillicothe, Ohio. Eyeglass-mounting. No. 1,342,808; June 8; v. 275; p. 288.
Haynes, Charles M., Chillicothe, Ohio, assignor to American Optical Company, Southbridge, Mass. Finger-piece mounting for eyeglasses. No. 1,345,488; July 6; v. 276; p. 32.
Haynes, Fay M., Encampment, Wyo. Lock-joint for drilling-tools. No. 1,355,144; Oct. 12; v. 279; p. 190.
Haynes, Melbry, Oakland, Calif. Roller for road-surfacing graders. No. 1,330,531; Feb. 10; v. 271; p. 253.
Haynes Stellite Company. (See Udy, Marvin J., assignor.)
Hays, Caswell V., Dillon, S. C. Tablet. No. 1,343,778; June 15; v. 275; p. 542.
Hays, Charles F., Cottagegrove, Tenn. Grass-rope reel. No. 1,329,240; Jan. 27; v. 270; p. 570.
Hays, Charles M. (See Orbin, George, assignor.)
Hays, Franklin B., Indianapolis, Ind. Carbureter. No. 1,346,201; July 13; v. 276; p. 233.
Hays, Harry J., Alexandria, Va. Tobacco-pipe. No. 1,349,276; Aug. 10; v. 277; p. 275.
Hays, Jessie F., *et al.*, executors. (See Hays, Louis H.)
Hays, John M., and J. E. Fillman, Ringwood, Okla.; said Fillman assignor to said Hays. Dump-wagon. No. 1,331,811; Feb. 24; v. 271; p. 583.
Hays, Louis H. (See Isaacs, H. G., and Hays.)

Digitized by Google

Hays, Louis H., deceased; J. F. Hays and The Guardian Savings & Trust Company, executors, assignors to The Kaynee Company, Cleveland, Ohio. Machine for trimming collars and the like. No. 1,354,906; Oct. 5; v. 279; p. 92.

Hays, Walter E. (See Warner, F. D., and Hays.)

Hayward, Carle R., Quincy, F. O. Stillman, Cambridge, and H. M. Schleicher, Boston, Mass., assignors, by mesne assignments, to Moa Iron & Development Corporation, Dover, Del. Treatment of iron ores. No. 1,341,901; June 1; v. 275; p. 56.

Hayward, James A., Sage, Wyo. Rail-fastening. No. 1,355,078; Oct. 5; v. 279; p. 125.

Hayward, Martin A., Elmwood, Mass. Handling-horse for shoe-uppers. No. 1,359,370; Nov. 16; v. 280; p. 528.

Haywood, James, assignor of one-half to F. J. Fotch, Bridgeport, Conn. Lock-blade pocket-knife. No. 1,357,398; Nov. 2; v. 280; p. 38.

Haywood, John W., New York, and L. W. Horne, assignors to Horne Manufacturing Company, Brooklyn, N. Y. Water-tight plug and receptacle. No. 1,362,992; Dec. 21; v. 281; p. 496.

Hazard, Allen B., Berwyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Testing system, process, and machine. No. 1,341,463; May 25; v. 274; p. 786.

Hazard, Allen B., Berwyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Conveying mechanism. No. 1,346,314; July 13; v. 276; p. 257.

Hazard, George E., assignor to Kellogg Manufacturing Co., Rochester, N. Y. Attachment for automobile-driven tire-pumps. No. 1,334,857; Mar. 23; v. 272; p. 665.

Hazard, George E., assignor to Kellogg Manufacturing Co., Rochester, N. Y. Automobile-driven tire-pump. No. 1,334,858; Mar. 23; v. 272; p. 666.

Hazard, William H. (See Williamson, C. S., and Hazard, assignor.)

Hazel-Atlas Glass Company. (See Quarrier, Hullihen D., assignor.)

Hazel, Charles R., Charlerol, Pa., assignor to Pittsburgh Plate Glass Company. Glass-stirring machine. No. 1,361,853; Dec. 14; v. 281; p. 222.

Hazelett, Clarence W., Lakewood, Ohio, assignor to National Carbon Company, Inc. Dry cell. No. 1,331,761; Feb. 24; v. 271; p. 573.

Hazelett, Clarence W., Lakewood, Ohio, assignor to National Carbon Company, Inc. Dry cell. No. 1,331,762; Feb. 24; v. 271; p. 573.

Hazelett, Clarence W., Lakewood, Ohio, assignor to National Carbon Company, Inc. Dry cell. No. 1,331,763; Feb. 24; v. 271; p. 573.

Hazelett, Clarence W., Lakewood, Ohio, assignor to National Carbon Company, Inc. Electric battery. No. 1,331,764; Feb. 24; v. 271; p. 573.

Hazelett, Clarence W., Lakewood, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc. Storage-battery terminal. No. 1,338,130; Apr. 27; v. 273; p. 669.

Hazelett, Clarence W., Lakewood, Ohio, assignor to National Carbon Company, Inc. Storage-battery lamp. No. 1,338,222; Apr. 27; v. 273; p. 681.

Haselman, George, West Brooklyn, Ill. Plow-guide-wheel holder. No. 1,351,328; Aug. 31; v. 277; p. 868.

Hazeltine, Harry H., and M. Gregory, Tacoma, assignors to Western Rubber Company, Pierce county, Wash. Rubber substitute and producing same. No. 1,360,744; Nov. 30; v. 280; p. 913.

Hazelton, Charles H., Lakewood, Ohio, assignor to National Carbon Company, Inc., New York, N. Y. Electrode-adapter. No. 1,330,532; Feb. 10; v. 271; p. 253.

Hazelton, George, Battersea, London, England. Machine-gun. No. 1,339,390; May 11; v. 274; p. 212.

Hazelton, George, London, England. Firing of guns. No. 1,363,971; Dec. 28; v. 281; p. 726.

Hazen, Clarence A., Talent, Oreg. Dustpan. No. 1,346,958; July 20; v. 276; p. 443.

Haslett, George E., Brazil, Ind. Motor-vehicle. No. 1,331,197; Feb. 17; v. 271; p. 447.

H'Doubler, Charles W., Madison, Wis. Electrically-driven sewing-machine. No. 1,354,603; Oct. 5; v. 279; p. 31.

Head, Ernest C. (See Gleason, J. E., Stewart, and Head.)

Head, Ernest C., Van Wert, Ohio, assignor to Colburn Machine Tool Company, Franklin, Pa. Final adjusting device for machine-tools. No. 1,328,670; Jan. 20; v. 270; p. 434.

Head, Ernest C., Van Wert, Ohio, assignor to Colburn Machine Tool Company, Franklin, Pa. Speed-changing device. No. 1,343,131; June 8; v. 275; p. 351.

Head, Ernest C., Van Wert, Ohio, assignor to Colburn Machine Tool Company, Franklin, Pa. Feed-changing mechanism. No. 1,343,132; June 8; v. 275; p. 351.

Head, Ernest C., Van Wert, Ohio, assignor to Colburn Machine Tool Company, Franklin, Pa. Interchangeable positive and friction drive and reversible gearing for machine-tools. No. 1,349,958; Aug. 17; v. 277; p. 481.

Head, Ernest C., Van Wert, Ohio, assignor to Colburn Machine Tool Company, Franklin, Pa. Control mechanism. No. 1,353,836; Sept. 28; v. 278; p. 555.

Head, Ernest C., Rochester, N. Y., assignor to Colburn Machine Tool Company, Franklin, Pa. Operating device for the turrets of machine-tools. No. 1,345,770; July 6; v. 276; p. 87.

Head, Mahlon M., *et al.* (See Mentzer, Claude E., assignor.)

Head, Robert, New York, N. Y., assignor to The Aeolian Company. Sound-box. No. 1,334,094; Mar. 16; v. 272; p. 475.

Head, Robert, assignor to The Aeolian Company, New York, N. Y. Automatic stop for phonographs. No. 1,358,312; Nov. 9; v. 280; p. 275.

Head, Robert, New York, N. Y., assignor to The Aeolian Company. Making sound-records. No. 1,358,949; Nov. 16; v. 280; p. 448.

Headley, James P., Jr., New Orleans, La. Locking attachment. No. 1,342,020; June 1; v. 275; p. 80.

Headley, John W., Long Beach, Calif. Resilient wheel. No. 1,347,034; July 20; v. 276; p. 458.

Heady, Thomas J., Cottonwood, Ariz. Window-holder. No. 1,353,655; Sept. 21; v. 278; p. 476.

Heald, Clarence L., Cedar Rapids, Iowa. Artificial respirator. No. 1,337,255; Apr. 20; v. 273; p. 423.

Heald, George W., Chicago, Ill. Valve. No. 1,346,887; July 20; v. 276; p. 429.

Heald, James N., and A. M. Drake, Worcester, Mass., assignors to Heald Machine Company. Work-drive for grinding-machines. No. 1,361,854; Dec. 14; v. 281; p. 222.

Heald Machine Company. (See Guild, Waldo J., assignor.)

Heald Machine Company. (See Heald, J. N., and Drake, assignors.)

Heald Machine Company. (See Moran, John L., assignor.)

Heale, Frank, Putney, and G. W. Bryant, Southsea, England. Screen for Cinematograph-pictures and the like. No. 1,349,064; Aug. 10; v. 277; p. 233.

Healy, Daniel J., and M. L. McGee, Chicago, Ill. Handy hatbox. No. 1,335,835; Mar. 30; v. 272; p. 815.

Healy, Daniel L., San Francisco, Calif. Plowing and seeding apparatus. No. 1,336,902; Apr. 13; v. 273; p. 288.

Healy, Daniel L., San Francisco, Calif. Plow. No. 1,359,371; Nov. 16; v. 280; p. 529.

Healy, Maurice F., Watertown, Mass. Lifting-dog. No. 1,352,665; Sept. 14; v. 278; p. 220.

Healy, William P., Chicago, Ill., assignor, by mesne assignments, to Wirebounds Patents Company, Kittery, Me. Wire-bound box-blank machine. No. 1,343,561; June 15; v. 275; p. 498.

Heany, John A., Jersey City, N. J., assignor, by mesne assignments, to Industrial Research Corporation. Dynamo-electric starting, lighting, and ignition mechanism for automobiles. No. 1,328,873; Jan. 27; v. 270; p. 501.

Heany, John A., Flint, Mich., assignor, by mesne assignments, to Industrial Research Corporation. Means for supplying lighting and ignition current for automotive vehicles. No. 1,347,460; July 20; v. 276; p. 541.

Heap, Edgar, Detroit, Mich. Irrigator shut-off; No. 1,340,828; May 18; v. 274; p. 542.

Heap, Jesse J., New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Double-lap seam for sewed articles. No. 1,348,645; Aug. 3; v. 277; p. 100.

Heap, William, Stockport, and E. Newbery, Manchester, England. Manufacture of metallic chlorids. No. 1,331,257; Feb. 17; v. 271; p. 458.

Heard, Ralph G., Boston, assignor to Tolman Print, Inc., Brockton, Mass. Marking-card for milk-bottles. No. 1,353,531; Sept. 21; v. 278; p. 450.

Hearn, John F. (See Reynolds, J. N., and Hearn.)

Heasley, Charles K. (See Shriver, W. J., and Heasley.)

Heasley, Jacob M., Pittsburgh, Pa. Tobacco tin or box. No. 1,336,228; Apr. 6; v. 273; p. 99.

Heat-Ometer Company. (See Aronson and Harris, assignors.)

Heath, Arthur E., London, England. Sparking plug for ignition purposes. No. 1,343,052; June 8; v. 275; p. 336.

Heath, Arthur E., London, England. Sparking plug for ignition purposes. No. 1,349,454; Aug. 10; v. 277; p. 310.

Heath, Charles W., Cincinnati, Ohio. Method of and apparatus for analyzing gases. No. 1,342,539; June 8; v. 275; p. 234.

Heath, Clarence W., and W. P. Conlin, Bellevue borough, Pa. Railway-fare-receipt ticket. No. 1,354,297; Sept. 28; v. 278; p. 648.

Heath, Clinton L., Leslie, Mo. Tappet-wheel for planters. No. 1,350,997; Aug. 24; v. 277; p. 728.

Heath, Frank, National City, Calif. Sardine sizing and selecting apparatus. No. 1,354,251; Sept. 28; v. 278; p. 640.

Heath, Frank, National City, Calif. Sardine-preparing apparatus and method. No. 1,361,255; Dec. 7; v. 281; p. 54.

Heath, Frank C., Detroit, Mich., assignor, by mesne assignments, to L. Olsen, Indianapolis, Ind. Process and apparatus for lining a bearing-shell. No. 1,340,337; May 18; v. 274; p. 449.

Heath, Harley S., Harrod, Ohio. Distributer and packer for silos. No. 1,358,732; Nov. 16; v. 280; p. 405.

Heath, Harry C., San Francisco, Calif. Lubricator. No. 1,350,075; Aug. 17; v. 277; p. 503.

Digitized by Google

Heath, Harry E., Newark, assignor to F. Conlin, Elizabethport, N. J. Driving mechanism. No. 1,351,999; Sept. 7; v. 278; p. 57.
Heath, Henry A., Newark, N. J. Combined multiple suspenders and brace. No. 1,327,041; Jan. 6; v. 270; p. 31.
Heath, Hiram T., and L. W. Hall, Concord, N. H. Safety device for circular saws. No. 1,329,708; Feb. 3; v. 271; p. 67.
Heath, Oscar. (See Trull, Lyman A., assignor.)
Heath, Samuel, Philadelphia, Pa. Combination-bracket for screens, shades, and curtains. No. 1,337,768; Apr. 20; v. 273; p. 526.
Heath, Samuel, Roxborough, Pa. Automatic screen. No. 1,338,223; Apr. 27; v. 273; p. 682.
Heath, Spencer, Baltimore, Md. Protector for propeller-blades. No. 1,339,886; May 11; v. 274; p. 307.
Heath, Spencer, Baltimore, Md. Apparatus for machining propeller-blades. No. 1,363,972; Dec. 28; v. 281; p. 726.
Heath, Walter D., Lakeport, N. H. Timer device. No. 1,361,256; Dec. 7; v. 281; p. 54.
Heath, Wilfrid P. (See Kirkpatrick, Swordling, and Heath.)
Heath, Wilfrid P., assignor to American Conservation Service Corporation, Spokane, Wash. Titration. No. 1,358,950; Nov. 16; v. 280; p. 448.
Heath, William R. (See Crumpton, William J., assignor.)
Heatley, Thomas E. (See Jones, Joseph H., assignor.)
Heatly, Gail H., Mangum, Okla. Union-garment. No. 1,350,020; Aug. 17; v. 277; p. 493.
Heaton, Charles. (See Chapdelaine, Norbert, assignor.)
Heaton, Frederick, Matatoki, New Zealand. Means for use in the insertion of rigid fittings within rubber rings or cylinders. No. 1,362,308; Dec. 14; v. 281; p. 312.
Heaton, John T. (See Ault, J. H., and Heaton.)
Heberger, Charles W., Rochester, N. Y. Driving mechanism for grinding-tools. No. 1,353,902; Sept. 28; v. 278; p. 568.
Heberling, John, Rochester, N. Y. Indicating-lock. No. 1,337,401; Apr. 20; v. 273; p. 456.
Heberling, John, Rochester, N. Y. Automatic fuel-feeding mechanism. No. 1,348,414; Aug. 3; v. 277; p. 56.
Heberling, John, assignor of one-half to H. H. Simms, Rochester, N. Y. Printing-machine. No. 1,338,866; Apr. 27; v. 273; p. 709.
Heberling, John, assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt-buckle. No. 1,363,318; Dec. 28; v. 281; p. 600.
Hebern, Edward H., assignor to H & H Patent Developing Company, Oakland, Calif. Direction-preindicator. No. 1,346,453; July 13; v. 276; p. 284.
Hebern, William. (See Rial, L., and Hebern.)
Hebert, Calixte, Parma, Idaho. Soil-pulverizer. No. 1,357,235; Nov. 2; v. 280; p. 7.
Hebert, Ignatieus A., assignor to The Hebert Life Saving Device Co., Inc., New Orleans, La. Life-saving device. No. 1,347,872; July 20; v. 276; p. 524.
Hebert, Jean. (See George, H., and Hebert.)
Hebert, Joseph A., Freeport, Tex. Apparatus for raising liquids from deep wells. No. 1,339,621; May 11; v. 274; p. 257.
Hebert, Joseph A. H. (See Lemire, Joseph, assignor.)
Hebert Life Saving Device Co., The. (See Hebert, Ignatieus A., assignor.)
Hebert, Ovila G., Holyoke, Mass. Printing apparatus. No. 1,330,374; Feb. 10; v. 271; p. 224.
Hebert, Onesime, Montreal, Quebec, Canada, assignor to Universal Car & Hose Coupler Company, Oklahoma, Okla. Car and train-pipe coupler. No. 1,363,973; Dec. 28; v. 281; p. 726.
Hebert, Ubald, Bennington, Vt. Door-opener. No. 1,361,726; Dec. 7; v. 281; p. 150.
Hechenbleikner, Ingenuin, assignor to Chemical Construction Company, Charlotte, N. C. Cooling apparatus. No. 1,331,500; Feb. 24; v. 271; p. 523.
Hecht, Charles E., Irvington, N. J., assignor to Hanlon & Goodman Co., New York, N. Y. Brush-holder. No. 1,328,162; Jan. 13; v. 270; p. 301.
Hecht, Else, administratrix. (See Heimann, Georg.)
Hecht, Frank A., Jr., Chicago, Ill. Oiling system for elevators. No. 1,347,854; July 27; v. 276; p. 677.
Hecht, Frank A., Jr., Chicago, Ill. Electric brake. No. 1,359,700; Nov. 23; v. 280; p. 639.
Hecht, Joseph, Brooklyn, N. Y. Rotatable wicket. No. 1,346,823; July 20; v. 276; p. 416.
Hecht, Joseph, Brooklyn, N. Y., assignor to Cash Safety Window Company, New York, N. Y. Wicket or closure for windows. No. 1,342,673; June 8; v. 275; p. 259.
Hecht, Walter C., Newport News, Va. Detachable handle for trucks. No. 1,336,033; Apr. 6; v. 273; p. 63.
Heck, Charles M., Raleigh, N. C. Multiple-record-repeating phonograph. No. 1,342,442; June 8; v. 275; p. 215.
Heck, Charles M., Raleigh, N. C. Automatic phonograph. No. 1,347,096; July 20; v. 276; p. 470.
Heck, Charles M., Raleigh, N. C. Method and apparatus for comparing sounds. No. 1,356,359; Oct. 19; v. 279; p. 469.
Heck, George D., Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company. Saliva-ejector. No. 1,353,587; Sept. 21; v. 278; p. 462.
Heck, George D., Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company. Surgical engine. No. 1,361,578; Dec. 7; v. 281; p. 121.
Heckathorn, Leonard L., Nowata, Okla. Mechanic's handy holding device. No. 1,345,177; June 29; v. 275; p. 943.
Hecker, Arthur S., Cleveland, Ohio. Loading and unloading apparatus. No. 1,327,324; Jan. 6; v. 270; p. 82.
Hecker, John H., New Orleans, La. Chain-fastener. No. 1,340,484; May 18; v. 274; p. 477.
Heckle, George R., Montreal, Quebec, Canada. Pile. No. 1,349,994; Aug. 10; v. 277; p. 219.
Heckler, Winfield T. (See Maltry and Heckler.)
Heckman, Eugene M., Avalon, Pa. Heater for automobiles. No. 1,354,554; Oct. 5; v. 279; p. 21.
Heckman, James, Clarendon, Tex. Pipe-holder. No. 1,327,673; Jan. 13; v. 270; p. 209.
Heela Iron Works. (See Jackson, Alcott, assignor.)
Hector, John, Sauk Center, Minn. Animal-feed trough. No. 1,338,077; Apr. 27; v. 273; p. 654.
Hedberg, Guido A., Alingsås, Sweden. Manufacture of explosives. No. 1,335,785; Apr. 6; v. 273; p. 16.
Hedberg, Johan H., Helsingborg, Sweden. Blotting appliance. No. 1,345,087; June 29; v. 275; p. 926.
Hedberg, John A., Denver, Colo. Animal-trap. No. 1,362,695; Dec. 21; v. 281; p. 438.
Hedenburg, Oscar F., Pittsburgh, Pa., assignor to F. O. Moburg, Toledo, Ohio. Dry lime and sulfur product and making same. No. 1,336,957; Apr. 13; v. 273; p. 298.
Hedenburg, Oscar F., and D. S. Pratt, Pittsburgh, Pa., assignors to The Toledo Rex Spray Company, Toledo, Ohio. Making arsenate of lead. No. 1,344,035; June 22; v. 275; p. 657.
Hedenstrom, Ernest E. G., Brooklyn, N. Y., assignor to Springfield Motors Company, Wilmington, Del. Controlling and stabilizing device. No. 1,335,055; Mar. 30; v. 272; p. 763.
Hedenstrom, Ernest E. G., Brooklyn, N. Y., assignor to Springfield Motors Company, Wilmington, Del. Automatic switch-operating device for aeroplane mechanisms. No. 1,336,138; Apr. 6; v. 273; p. 82.
Hederich, John, Toledo, Oreg. Needle-knife. No. 1,362,993; Dec. 21; v. 281; p. 496.
Hedges, Anthony B., Brunswick, Md. Locomotive-tire limit-of-wear gages. No. 1,346,748; July 13; v. 276; p. 342.
Hedges, Arthur L. (See Speyer, John E., assignor.)
Hedges, Chester G., Chase, Kans. Fuel-vaporizer for combustion-engines. No. 1,343,053; June 8; v. 275; p. 336.
Hedges, Edwin B., Westfield, assignor to Samuel Pierce Organ Pipe Company, Reading, Mass. Plug for organ-pipe feet. No. 1,331,258; Feb. 17; v. 271; p. 458.
Hedges, Isaac A., *et al.* (See Flatau, Louis, S., assignor.)
Hedlund, Elof T., and S. E. Noyes, Portland, Oreg. Artificial teeth. No. 1,352,466; Mar. 2; v. 272; p. 56.
Hedman, Herbert R. (See Fesler, D. F., and Hedman.)
Hedman Manufacturing Co. (See Fesler, D. F., and Hedman, assignors.)
Hedman Manufacturing Company. (See Engstrom, Ivan, assignor.)
Hedman Manufacturing Company. (See Fesler, Douglas F., assignor.)
Hedström, Herman O., Djursholm, Sweden. Producing compounds of radium. No. 1,338,831; May 4; v. 274; p. 33.
Hedström, Herman O., Djursholm, Sweden. Producing compounds of radium. No. 1,353,532; Sept. 21; v. 278; p. 450.
Heeger, John R., Springfield, Ohio. Calibrating-machine. No. 1,330,319; Feb. 10; v. 271; p. 218.
Heenan & Froude. (See Walker, George H., assignor.)
Heenan & Froude. (See Wheal, Walter, assignor.)
Heer, Otto F., and O. Johnson, Ontario, Calif. Concrete-pipe machine. No. 1,330,760; Feb. 10; v. 271; p. 296.
Heeter, Albert, North Manchester, Ind. Rail-tie. No. 1,361,579; Dec. 7; v. 281; p. 121.
Heeter, Charles M., Butler, Pa. Valve for deep wells. No. 1,351,906; Sept. 7; v. 278; p. 39.
Heeter, Thomas E., assignor to Wm. Waltke & Company, St. Louis, Mo. Wrapping, cartoning, and packing machine. No. 1,336,838; Apr. 13; v. 273; p. 275.
Hefferman, James E. (See, King, J. G., and Hefferman.)
Heffernan, James W., Brooklyn, N. Y. Multiple valve. No. 1,355,832; Oct. 19; v. 279; p. 364.
Heffernan, Thomas, East Molesey, England. Moving platform or staircase apparatus for purposes of amusement or diversion. No. 1,354,744; Oct. 5; v. 279; p. 59.
Heffner, Benjamin F., *et al.* (See Whitcomb, James, assignor.)
Hegarty, William J., Lawsonville, Cork, Ireland. Hand or armpit support for water-closets. No. 1,353,749; Sept. 21; v. 278; p. 494.
Hegelman, Theodore, Oak Park, Ill. Ball-bearing. No. 1,336,352; Apr. 6; v. 273; p. 122.
Heger, Godfrey, New York, N. Y. Combined sled and truck. No. 1,331,501; Feb. 24; v. 271; p. 524.
Hegerhorst, John, Jefferson Barracks, Mo., assignor to J. S. Bricknell, Hammond, Ind. Satchel-handle. No. 1,333,618; Mar. 16; v. 272; p. 386.
Heggie, James. (See Corrall, H., and Heggie.)
Heggs, William R., Merino, Colo. Disk-sharpener. No. 1,344,888; June 29; v. 275; p. 888.

Digitized by Google

Alphabetical list of patentees—Continued.

Hegland, William, Plentywood, Mont. Cultivator. No. 1,329,598; Feb. 3; v. 271; p. 48.
Hegybeli, Ferenc, Cleveland, Ohio. Station-indicator. No. 1,357,558; Nov. 2; v. 280; p. 67.
Heiby, Carl G., J. Burkam, D. E. Lindquist, E. W. Allen, F. L. Riggin, and R. Lau, Sarnia, Canada, assignors, by mesne assignments, to Mueller Metals Company, Port Huron, Mich. Casting metal bars. No. 1,331,919; Feb. 24; v. 271; p. 603.
Heiby, Carl G., J. Burkam, D. E. Lindquist, F. L. Riggin, E. W. Allen, and R. Lau, Sarnia, Canada, assignors, by mesne assignments, to Mueller Metals Company, Port Huron, Mich. Mold for casting metal bars. No. 1,331,920; Feb. 24; v. 271; p. 603.
Heiby, Carl G., J. Burkam, D. E. Lindquist, F. L. Riggin, E. W. Allen, and R. Lau, Sarnia, Canada, assignors, by mesne assignments, to Mueller Metals Company, Port Huron, Mich. Base-plug for time-fuses. No. 1,331,921; Feb. 24; v. 271; p. 603.
Heiby, Carl G., J. Burkam, D. E. Lindquist, F. L. Riggin, E. W. Allen, and R. Lau, Sarnia, Canada, assignors, by mesne assignmens, to Mueller Metals Company, Port Huron, Mich. Primer for shells. No. 1,331,922; Feb. 24; v. 271; p. 603.
Heichert, Herman S., Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Apparatus for supporting glass cylinders. No. 1,361,855; Dec. 14; v. 281; p. 222.
Held, Charles M., Erie, Pa. Signal appliance for motor-vehicles. No. 1,359,476; Nov. 16; v. 280; p. 550.
Held, John B., Tulsa, Okla. Tower construction. No. 1,330,875; Feb. 10; v. 271; p. 224.
Heidbreder, George E., Quincy, Ill. Cooking range or stove. No. 1,330,187; Feb. 10; v. 271; p. 189.
Heide, William, Detroit, Mich. Priming device. No. 1,337,226; Apr. 20; v. 273; p. 423.
Heide, William A., Detroit, Mich. Carbureter control-valve. No. 1,356,360; Oct. 19; v. 279; p. 469.
Heideman, Fred J., Detroit, Mich., assignor to Kelvinator Corporation, Wilmington, Del. Fitting for refrigerating machinery. No. 1,334,753; Mar. 23; v. 272; p. 645.
Heideman, Fred J., assignor to Household Utilities Corporation, Detroit, Mich. Refrigerating-tank. No. 1,350,453; Aug. 24; v. 277; p. 624.
Heideman, Fred J., assignor to Household Utilities Corporation, Detroit, Mich. Control-valve for compressors. No. 1,356,205; Oct. 19; v. 279; p. 439.
Heideman, Fred J., assignor, by mesne assignments, to P. M. Fowl, H. R. Krueger, C. E. French, and F. J. Heideman, Detroit, Mich. Thermostat. No. 1,336,518; Apr. 13; v. 273; p. 213.
Heideman, Fred J., and J. N. Hadjisky, Detroit, Mich., assignors to Kelvinator Corporation, Wilmington, Del. Means and method of regulating automatic mechanical refrigerators. No. 1,329,350; Jan. 27; v. 270; p. 589.
Heideman, Fred J., and J. N. Hadjisky, Detroit, Mich., assignors to Kelvinator Corporation, Wilmington, Del. Pressure-operated-regulating apparatus. No. 1,329,351; Jan. 27; v. 270; p. 589.
Heidemann, William H., Eau Claire, Wis. Drain-trap. No. 1,363,732; Dec. 28; v. 281; p. 679.
Heidman, George, *et al.* (See Blood, Burr B., assignor.)
Heidorf, Christopher J., Hudson Falls, N. Y. Wall-paper finish. No. 1,353473; Sept. 21; v. 278; p. 438.
Heidorf, Christopher J., Glens Falls, N. Y. Binding composition for wall-paper colors. No. 1,358,151; Nov. 9; v. 280; p. 244.
Heidtmann, Ernest A., Richmond Hill, N. Y. Chest. No. 1,341,125; May 25; v. 274; p. 670.
Height, Robert J., and R. C. Whiteway, Waterbury, Conn. Automatic line-clamp. No. 1,360,938; Nov. 30; v. 280; p. 950.
Heil, Jesse P., Wheeling, W. Va. Power-operated shears. No. 1,351,569; Aug. 31; v. 277; p. 905.
Heilenday, Richard A., Jersey City, assignor to Standard Oil Company, Newark, N. J. Globe-holder. No. 1,357,559; Nov. 2; v. 280; p. 67.
Heilhecker, Eugene C. (See Ashton, John T., assignor.)
Heiligenstein, Joseph, Altamont, Ill. Box-opener. No. 1,343,627; June 15; v. 275; p. 511.
Heiliger, Paul, assignor of one-third to L. J. Clarke and one-third to E. E. Clarke, Chicago, Ill. Pumping mechanism for stationary vacuum-cleaners. No. 1,351,210; Aug. 31; v. 277; p. 833.
Heilman, Guy C., Philadelphia, Pa. Heating arrangement for kilns and other structures. (Reissue.) No. 14,972; Oct. 26; v. 279; p. 683.
Heilpern, Ethel F., *et al.* (See Feitel, Isaac, assignor.)
Heim, Adam, Liberty, Ind. Plug for railway-ties and the like. No. 1,338,444; Apr. 27; v. 273; p. 722.
Heimann, Georg, deceased, Charlottenburg, Germany; E. Hecht, administratrix. Graded-service electromechanical telephone-exchange system. No. 1,341,801; June 1; v. 275; p. 38.
Heimgartner, George, Chicago, Ill. Funnel. No. 1,333,756; Mar. 16; v. 272; p. 412.
Hein, Paul, Essen-Rüttenscheid, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Refining raw wood-pulp liquor. No. 1,344,691; June 29; v. 275; p. 851.
Hein, Paul P., New York, N. Y. Extension-base lamp-bulb. No. 1,339,338; May 4; v. 274; p. 126.
Hein, Paul P., New York, N. Y. Headlight-dimmer. No. 1,346,708; July 13; v. 276; p. 334.
Heindl, William C., assignor to Bastian Brothers Co., Rochester, N. Y. Coin-receptacle. No. 1,330,703; Feb. 10; v. 271; p. 285.
Heindlhofer, Kalman, Springfield, Mass. High-speed-roller bearing. No. 1,332,176; Feb. 24; v. 271; p. 650.
Heindrich, Frank K., *et al.* (See Carbi, Joseph L., assignor.)
Heine, Albert F., Quincy, Ill. Bath device. No. 1,358,733; Nov. 16; v. 280; p. 405.
Heine, Charles H., Lexington, Nebr. Mail-box. No. 1,362,941; Dec. 21; v. 281; p. 486.
Heine, Herman, Brooklyn, assignor to A. Kimball Company, New York, N. Y. Pin-ticket machine. No. 1,339,887; May 11; v. 274; p. 307.
Heine, Herman, Brooklyn, assignor to A. Kimball Company, New York, N. Y. Pin-pointing machine. No. 1,351,849; Sept. 7; v. 278; p. 27.
Heinecke, Fredrich G., Gaylord, Minn. Cornstalk-cutter. No. 1,327,997; Jan. 13; v. 270; p. 270.
Heinel, John, Rockford, Ill. Body structure for traveling bags, cases, and the like. No. 1,346,495; July 13; v. 276; p. 292.
Heinen, John, Atchison, Kans. Lifting-jack. No. 1,345,178; June 29; v. 275; p. 944.
Heinig, Frank M., Watertown, Wis. Traction-wheel. No. 1,333,074; Mar. 9; v. 272; p. 223.
Heininger, Peter J., Plymouth, Fla. Hose-coupling. No. 1,361,856; Dec. 14; v. 281; p. 222.
Heinkel, Christian F., Cleveland, Ohio. Boring and reaming tool. No. 1,337,015; Apr. 13; v. 273; p. 309.
Heinle, Lawrence A., Toledo, Ohio. Heat-insulated container. No. 1,330,704; Feb. 10; v. 271; p. 285.
Heino, John, New York, N. Y. Phonograph-needle. No. 1,343,507; June 15; v. 275; p. 487.
Heino, Louis, Oakland, Calif. Washtray. No. 1,342,046; June 1; v. 275; p. 85.
Heinrich, Carl, Somerville, Mass., assignor to Bertrand L. Makepeace, Inc. Dumpy-level. No. 1,341,209; May 25; v. 274; p. 687.
Heinrich, Carl, Somerville Mass., assignor to Bertrand L. Makepeace, Inc. Locking device for surveying instruments and the like. No. 1,341,210; May 25; v. 274; p. 687.
Heinrich, Frank J., Yakima, Wash. Bearing-puller. No. 1,346,023; July 6; v. 276; p. 137.
Heinrich, S. J., *et al.* (See Lionne, Ernest, assignor.)
Heinrich, Walter A., assignor to W. N. Matthews and Brother, Inc., St. Louis, Mo. Incandescent-lamp guard. No. 1,351,474; Aug. 31; v. 277; p. 886.
Heinrichs, Berg, assignor to Mid-West Box Company, Anderson, Ind. Box-sealing machine. No. 1,355,227; Oct. 12; v. 279; p. 207.
Heinrichs, Joseph, New York, N. Y. Coffee or tea pot. No. 1,357,051; Oct. 26; v. 279; p. 651.
Heintz, James C., and G. Ruf, Cleveland, Ohio; said Ruf assignor to said Heintz. Vulcanizer. (Reissue.) No. 14,913; July 13; v. 276; p. 355.
Heintz, James E., Elkhart, Kans. Disk-bearing. No. 1,339,455; May 11; v. 274; p. 225.
Heintzelman, Andrew C., South Pasadena, Calif., assignor to Earle Hardware Manufacturing Company. Surface bolt. No. 1,354,646; Oct. 5; v. 279; p. 40.
Heinze, John O., Lowell, Mass., assignor of one-half to A. F. Knobloch, Indianapolis, Ind. Lubricating system. No. 1,331,765; Feb. 24; v. 271; p. 573.
Heinze, John O., Lowell, Mass., assignor of one-half to A. E. Knobloch, Indianapolis, Ind. Water-cooling system. No. 1,356,066; Oct. 19; v. 279; p. 411.
Heinze, John O., Springfield, Ohio, assignor of one-half to A. F. Knobloch, Indianapolis, Ind. Auxiliary power system for internal-combustion engines. No. 1,356,065; Oct. 19; v. 279; p. 410.
Heiser, Joseph B., Williamsport, Pa. Self-locking paper carton. No. 1,339,334; May 4; v. 274; p. 126.
Heising, Raymond A., East Orange, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated. Telegraph system. No. 1,339,824; May 11; v. 274; p. 295.
Heising, Raymond A., East Orange, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated. Modulation of high-frequency currents. No. 1,341,211; May 25; v. 274; p. 687.
Heising, Raymond A., East Orange, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated. Control means for vacuum-tube circuits. No. 1,343,562; June 15; v. 275; p. 499.
Heising, Raymond A., Orange, N. J., assignor, by mesne assignments, to American Telephone & Telegraph Company, East Orange, N. J. System for the transmission of intelligence. (Reissue.) No. 14,967; Oct. 26; v. 279; p. 682.
Heisler, Aaron, Pittsburgh, Pa. Grinding-machine. No. 1,356,361; Oct. 19; v. 279; p. 469.
Heisler, Aaron, Pittsburgh, Pa. Safety device for elevators. No. 1,358,734; Nov. 16; v. 280; p. 406.
Heisler, Charles L., Schenectady, N. Y., assignor to General Electric Company. Fluid-operated motor. No. 1,353,656; Sept. 21; v. 278; p. 476.

Digitized by Google

Heisler, Lewis E., *et al.* (See Powers, Franklin H., assignor.)
Heisterkamp, Alexander, Hoboken, N. J. Account-book. No. 1,343,082; June 8; v. 275; p. 341.
Heitler, Kurt, New York, N. Y. Garment-protector. No. 1,353,750; Sept. 21; v. 278; p. 495.
Heitmiller, Charles C., Seattle, Wash. Rim-contractor. No. 1,344,889; June 29; v. 275; p. 889.
Heitz, Edward L., assignor of one-tenth to F. W. Ellermann, one-tenth to W. McGuire, and one-tenth to A. W. Jaeger, St. Louis, Mo. Rotary internal-combustion engine. No. 1,332,397; Mar. 2; v. 272; p. 43.
Heitzenreder, Jacob, Jr., Detroit, Mich. Upholstering. No. 1,353,340; Sept. 21; v. 278; p. 412.
Held, Siegfried, assignor of one-half to A. Kaestner, Chicago, Ill. Ozone-generator. No. 1,358,443; Nov. 9; v. 280; p. 303.
Helenbolt, George S, Middleport, assignor to The Rex Company, Rochester, N. Y. Sorting apparatus. No. 1,338,729; May 4; v. 274; p. 15.
Helfrich, Gustav P., New York, N. Y. Tunnel construction. No. 1,363,115; Dec. 21; v. 281; p. 520.
Helgerson, Thomas O., Minneapolis, Minn. Grain-separator. No. 1,336,958; Apr. 13; v. 273; p. 298.
Helleland, Olav. (See Nielsen, C., and Helleland.)
Hellen, Jacob L., Klöften Station, Norway. Car-underframe of iron. No. 1,356,280; Oct. 19; v. 279; p. 453.
Heller, Charles T., Jr. (See Finberg, J., and Heller.)
Heller, Emil, *et al.* (See Brewster, Guy O., assignor.)
Heller, Eugene H. (See Jaeger and Heller.)
Heller, Eugene H., assignor to The Hill Pump Valve Company, Chicago, Ill. Automobile-heater. No. 1,341,126; May 25; v. 274; p. 670.
Heller, Fritz, and A. Hartelt, Kasnau, near Pilsen, Czechoslovakia. Device for removing ashes from producers. No. 1,363,116; Dec. 21; v. 281; p. 520.
Heller, Henry R., assignor, by mesne assignments, to Auto Pneumatic Action Co., New York, N. Y. Musical instrument. No. 1,352,958; Sept. 14; v. 278; p. 278.
Heller, Jesse B., assignor to Kerner Manufacturing Company, Pittsburgh, Pa. Making bolts. No. 1,343,720; June 15; v. 275; p. 530.
Heller, Micajah B., Westminster, S. C. Plow. No. 1,331,502; Feb. 24; v. 271; p. 524.
Helling, Charles H., assignor of one-half to G. C. Lester, Oakland, Calif. Switch attachment for electric irons. No. 1,342,905; June 8; v. 275; p. 307.
Helliwell, John O., Pasadena, Calif. Pneumatic-tire valve. No. 1,337,316; Apr. 20; v. 273; p. 440.
Hellmann, Lui F., and W. W. Baxter, assignors to Air Brake Safety Appliance Co., Indianapolis, Ind. Automatic railway safety control. No. 1,340,861; May 18; v. 274; p. 548.
Hellmund, Rudolf E., Swissvale, Pa. System of control for single-phase alternating-current motors. No. 1,339,928; May 11; v. 274; p. 315.
Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,327,819; Jan. 13; v. 270; p. 237.
Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,327,820; Jan. 13; v. 270; p. 237.
Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,329,243; Jan. 27; v. 270; p. 571.
Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,335,107; Mar. 30; v. 272; p. 773.
Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Phase-converter system. No. 1,335,108; Mar. 30; v. 272; p. 773.
Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of motor control. No. 1,336,561; Apr. 13; v. 273; p. 221.
Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control for dynamo-electric machines. No. 1,347,903; July 27; v. 276; p. 687.
Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system. No. 1,349,376; Aug. 10; v. 277; p. 295.
Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,349,377; Aug. 10; v. 277; p. 295.
Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Co. Dynamo-electric machine. No. 1,351,035; Aug. 31; v. 277; p. 799.
Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system. No. 1,354,188; Sept. 28; v. 278; p. 626.
Hellmund, Rudolf E., assignor to Westinghouse Electric and Manufacturing Company, Pittsburgh, Pa. Phase-converter. No. 1,360 293; Nov. 30; v. 280; p. 825.
Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,363,647; Dec. 28; v. 281; p. 663.
Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Dynamo-electric machine. No. 1,327,821; Jan. 13; v. 270; p. 237.
Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,327,822; Jan. 13; v. 270; p. 238.
Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,327,823; Jan. 18; v. 270; p. 238.
Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,328,513; Jan. 20; v. 270; p. 405.
Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,328,514; Jan. 20; v. 270; p. 405.
Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,328,515; Jan. 20; v. 270; p. 405.
Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Coil-supporting device for dynamo-electric machines. No. 1,329,242; Jan. 27; v. 270; p. 570.
Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Phase-converter system. No. 1,335,109; Mar. 30; v. 272; p. 773.
Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Commutating means for dynamo-electric machines. No. 1,335,110; Mar. 30; v. 272; p. 773.
Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,335,111; Mar. 30; v. 272; p. 774.
Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,335,112; Mar. 30; v. 272; p. 774.
Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,336,562; Apr. 13; v. 273; p. 222.
Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Single-phase motor-control system. No. 1,338,367; Apr. 27; v. 273; p. 709.
Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control for alternating-current commutator-motors. No. 1,338,368; Apr. 27; v. 273; p. 709.
Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,339,929; May 11; v. 274; p. 315.
Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,343,210; June 15; v. 275; p. 431.
Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and manufacturing Company. System of control. No. 1,343,211; June 15; v. 275; p. 431.
Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,344,762; June 29; v. 275; p. 865.
Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Co. System of control. No. 1,344,763; June 29; v. 275; p. 865.
Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Regenerative control for alternating-current commutator-motors. No. 1,347,904; July 27; v. 276; p. 687.
Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,347,905; July 27; v. 276; p. 687.
Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,355,475; Oct. 12; v. 279; p. 255.
Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,358,735; Nov. 16; v. 280; p. 406.
Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Commutator-cylinder. No. 1,358,736; Nov. 16; v. 280; p. 406.
Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,358,737; Nov. 16; v. 280; p. 406.
Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,358,738; Nov. 16; v. 280; p. 406.
Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,360,745; Nov. 30; v. 280; p. 913.
Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,360,746; Nov. 30; v. 280; p. 913.
Hellmund, Rudolf E., assignor to Westinghouse Electric & Manufacturing Company, Swissvale, Pa. System of control. No. 1,361,991; Dec. 14; v. 281; p. 250.
Hellmund, Rudolf E., assignor to Westinghouse Electric & Manufacturing Company, Swissvale, Pa. System of control. No. 1,361,992; Dec. 14; v. 281; p. 250.
Hellmund, Rudolf E., assignor to Westinghouse Electric & Manufacturing Company, Swissvale, Pa. System of control. No. 1,361,993; Dec. 14; v. 281; p. 250.
Hellmund, Rudolf E., assignor to Westinghouse Electric & Manufacturing Company, Swissvale, Pa. System of control. No. 1,361,994; Dec. 14; v. 281; p. 250.
Hellmund, Rudolf E., assignor to Westinghouse Electric & Manufacturing Company, Swissvale, Pa. System of control. No. 1,361,995; Dec. 14; v. 281; p. 250.

Digitized by Google

Alphabetical list of patentees—Continued.

Hellmund, Rudolf E., Swissvale, and B. S. Moore, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Shaft-bearing. No. 1,329,241; Jan. 27; v. 270; p. 570.
Hellmund, Rudolf E., Pittsburgh, and R. E. Ferris, Swissvale, Pa., assignors to Westinghouse Electric & Manufacturing Co. Dynamo-electric machine. No. 1,351,036; Aug. 31; v. 277; p. 799.
Hellmund, R. E., Swissvale, and B. S. Moore, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Arrangement of leads for dynamo-electric machines. No. 1,351,907; Sept. 7; v. 278; p. 39.
Hellweg, Rudolph F., El Paso, Tex. Bed. No. 1,350,155; Aug. 17; v. 277; p. 519.
Hellyer, Clement D., Los Angeles, Calif. Adjustable spring camping-bed. No. 1,330,533; Feb. 10; v. 271; p. 253.
Hellyer, Lloyd M., Holden, W. Va. Wire-splicer. No. 1,357,454; Nov. 2; v. 280; p. 48.
Helm, John, St. Louis, Mo. Tool for heavy pipe-fittings. No. 1,357,707; Nov. 2; v. 280; p. 96.
Helm, William A., Traverse City, Mich. Tire-protector. No. 1,340,608; May 18; v. 274; p. 501.
Helman, Calvin C., Cleveland, Ohio. Automobile-bumper. No. 1,339,756; May 11; v. 274; p. 283.
Helmbold, August, Jr., Newport, Ky. Implement. No. 1,357,091; Oct. 26; v. 279; p. 658.
Helmers, Hlo J., Sibley, Iowa. Tractor attachment. No. 1,354,252; Sept. 28; v. 278; p. 640.
Helmich, Daniel P., Chicago, Ill. Pier. No. 1,358,951; Nov. 16; v. 280; p. 448.
Helmond, William F., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,328,626; Jan. 20; v. 270; p. 426.
Helmond, William F., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,354,298; Sept. 28; v. 278; p. 649.
Helmond, William F., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,360,747; Nov. 30; v. 280; p. 913.
Helms, Louis A., Decatur, Ga. Agricultural machine. No. 1,331,641; Feb. 24; v. 271; p. 550.
Helmstaedter, George O., Chicago, Ill. Bearing-box. No. 1,358,444; Nov. 9; v. 280; p. 303.
Helpling, James E., Los Angeles, Calif. Windshields for side cars of motorcycles. No. 1,347,461; July 20; v. 276; p. 542.
Helt, Edward H., Bellevue borough, Pa. Coin-operated mechanism. No. 1,347,742; July 27; v. 276; p. 655.
Heltzel, John N., Warren, Ohio. Concrete-form. No. 1,329,177; Jan. 27; v. 270; p. 559.
Heltzel, John N., assignor to The Heltzel Steel Form & Iron Co., Warren, Ohio. Concrete-mold-form stay. No. 1,345,179; June 29; v. 275; p. 944.
Heltzel Steel Form & Iron Co., The. (See Heltzel, John N., assignor.)
Helwig, Herman H., assignor to Pivot Button Company, Inc., Philadelphia, Pa. Button. No. 1,349,761; Aug. 17; v. 277; p. 443.
Helwitz, Ellis S., Brooklyn, N. Y. Shoe-heel. No. 1,346,709; July 13; v. 276; p. 334.
Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Weighing-scale. No. 1,348,174; Aug. 3; v. 277; p. 8.
Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Pendulum weighing-scale. No. 1,360,213; Nov. 23; v. 280; p. 740.
Hembree, Samuel S., and A. L. Johnson, Farris, Okla. Power-transmission mechanism. No. 1,337,908; Apr. 20; v. 273; p. 552.
Hemingway, Frank, Boundbrook, N. J. Manufacture of pure ferric oxid. No. 1,337,402; Apr. 20; v. 273; p. 456.
Hemingway, George H., Coventry, England. Internal-combustion turbine-engine. No. 1,331,766; Feb. 24; v. 271; p. 574.
Hemingway, Horace B., assignor to Winchester Repeating Arms Co., New Haven, Conn. Two-part self-locking rivet. No. 1,339,197; May 4; v. 274; p. 101.
Hemingway, Horace B., assignor to Winchester Repeating Arms Co., New Haven, Conn. Two-part self-locking rivet for tool-handles. No. 1,339,198; May 4; v. 274; p. 101.
Hemleb, Martin. (See Kopf, E. A., and Hemleb.)
Hemmer, Frederick L., Lincoln, assignor of one-third to J. L. Schneider, New Market, and one-third to M. A. Eganey, Boundbrook, N. J. Nut-lock. No. 1,337,700; Apr. 20; v. 273; p. 513.
Hemmi, Jiro, Tokyo, Japan. Slide-rule. No. 1,329,902; Feb. 3; v. 271; p. 105.
Hemmick, Clarence C., Chicago, Ill. Soft collar. No. 1,358,544; Nov. 9; v. 280; p. 322.
Hemmick, Clarence C., Chicago, Ill., assignor to Delpark, Inc., New York, N. Y. Collar. No. 1,363,871; Dec. 28; v. 281; p. 707.
Hemming, Otto L., assignor to Winchester Repeating Arms Co., New Haven, Conn. Pocket-knife. No. 1,337,769; Apr. 20; v. 273; p. 526.
Hemphill Company. (See Bosworth, George P., assignor.)
Hemphill Company. (See Jones, Frank E., assignor.)
Hemphill, Elverton M., Elmira, N. Y. Lubricating-cup. No. 1,355,668; Oct. 12; v. 279; p. 292.
Hemphill Manufacturing Company. (See Fisher, Raymond, assignor.)
Hempy-Cooper Manufacturing Co. (See Hempy, Wilbur J., assignor.)
Hempy, Wilbur J., Ottawa, Kans. Convertible vehicle-rack. No. 1,351,475; Aug. 31; v. 277; p. 886.
Hempy, Wilbur J., Kansas City, Mo., assignor to Hempy-Cooper Manufacturing Co. Combination ladle and babbitting-jig. No. 1,351,247; Aug. 31; v. 277; p. 840.
Hemsing, Maurice A., assignor to Davenport Manufacturing Company, Davenport, Iowa. Cigar-lighter. No. 1,328,516; Jan. 20; v. 270; p. 405.
Hemstreet, George P., Hastings-upon-Hudson, N. Y., assignor to The International Pavement Company, Hartford, Conn. Making anchor-blocks. No. 1,327,710; Jan. 13; v. 270; p. 217.
Henault, Lewis N., Albany, N. Y. Deck-sash support. No. 1,328,874; Jan. 27; v. 270; p. 501.
Hench & Dromgold Company. (See Birnstock, William W., assignor.)
Henchoz, Gustave. (See Walther, H. S., and Henchoz.)
Henckler, William, St. Louis, Mo. Automobile-lock. No. 1,345,672; July 6; v. 276; p. 67.
Hendee, Lem E., Milwaukee, Wis. Support for line-conductors. No. 1,339,391; May 11; v. 274; p. 212.
Hendee Manufacturing Company. (See Gustafson, Carl J., assignor.)
Hendershott, Chauncey M., Hornell, N. Y. Elevating-truck. No. 1,346,710; July 13; v. 276; p. 335.
Henderson, Adelbert A., Wilkinsburg, Pa. Lift-bridge. No. 1,352,450; Sept. 14; v. 278; p. 176.
Henderson, Albert, Jersey City, N. J. Napkin-holder. No. 1,336,744; Apr. 13; v. 273; p. 257.
Henderson, Albert H., Baltimore, Md. Manufacture of steel. No. 1,361,383; Dec. 7; v. 281; p. 80.
Henderson, Carl, assignor to Miehle Printing Press & Mfg. Co., Chicago, Ill. Shifting-plate clamp. No. 1,362,100; Dec. 14; v. 281; p. 271.
Henderson, Charley C. (See Page, B. E. and Henderson.)
Henderson, Christie H., Oakland, Calif. Sanitation appliance. No. 1,340,338; May 18; v. 274; p. 449.
Henderson, Clark T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Method and means for shaping rolls and the like. No. 1,338,178; Apr. 27; v. 273; p. 673.
Henderson, Clark T., assignor to The Cutler Hammer Mfg. Co., Milwaukee, Wis. Circuit-controller. No. 1,339,456; May 11; v. 274; p. 225.
Henderson, Clark T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controller. No. 1,339,930; May 11; v. 274; p. 316.
Henderson, Clark T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Switch. No. 1,342,674; June 8; v. 275; p. 260.
Henderson, Clark T., assignor to Niagara Smelting Corporation, Niagara Falls, N. Y. Chlorin liquefaction. No. 1,338,654; Apr. 27; v. 273; p. 762.
Henderson, George. (See Barter, Douglas, assignor.)
Henderson, Harold D., Yarraville, Victoria, Australia. Concrete-block mold. No. 1,360,214; Nov. 23; v. 280; p. 741.
Henderson, Henry, Halstad, Minn. Shock-loader. No. 1,338,369; Apr. 27; v. 273; p. 709.
Henderson, Herbert, Port Arthur, Tex., assignor to Gulf Refining Company, Pittsburgh, Pa. Still and still-setting. No. 1,335,488; Mar. 30; v. 272; p. 834.
Henderson, James B., Lee, England. Controlling guns. No. 1,327,204; Jan. 6; v. 270; p. 61.
Henderson, Jerry and P., Courteney, N. D. Railway-tie. No. 1,363,733; Dec. 28; v. 281; p. 680.
Henderson, John, Chicago, Ill. Internal-combustion engine. No. 1,352,127; Sept. 7; v. 278; p. 80.
Henderson, John G., Charlottesville, Va. Ball-bearing construction for worm-gear and other purposes. No. 1,361,154; Dec. 7; v. 281; p. 34.
Henderson, Lee, Stanley, Wis. Derrick. No. 1,354,745; Oct. 5; v. 279; p. 59.
Henderson, Perry. (See Henderson, Jerry and P.)
Henderson, Robert B., and R. E. James, Oklahoma, Okla.; said Henderson assignor to said James. Refrigerating apparatus. No. 1,339,622; May 11; v. 274; p. 257.
Henderson, Robert L., West, Tex. Automatic rotary weighing-scale. No. 1,354,394; Sept. 28; v. 278; p. 668.
Henderson Rubber Company, The. (See Mahon, Joseph T., assignor.)
Henderson, Sparks D., St. Louis, Mo. Railway-rail. No. 1,357,635; Nov. 2; v. 280; p. 82.
Henderson, Thomas E., Fort Worth, Tex. Cold process of repairing radiators of internal-combustion engines. No. 1,340,655; May 18; v. 274; p. 510.
Henderson, Turner, Abingdon, England. Insulating building-slab. No. 1,356,764; Oct. 26; v. 279; p. 594.
Henderson, Warren H., Lubbock, Tex. Plow. No. 1,360,636; Nov. 30; v. 280; p. 892.
Henderson, William A., Larchmont, N. Y. Window-support. No. 1,338,445; Apr. 27; v. 273; p. 723.

Digitized by Google

Henderson, William A., Larchmont, assignor to Holbrook Company, New York, N. Y. Vehicle-top. No. 1,338,446; Apr. 27; v. 273; p. 723.
Henderson, William T., Oklahoma, Okla. Mounting. No. 1,329,401; Feb. 3; v. 271; p. 11.
Hendey Machine Company. (See Bouillon, Constant, assignor.)
Hendler, Max. (See Ershler, L. H., and Hendler.)
Hendricks, Adam C., Martinsburg, W. Va. Automatic phonograph-stop. No. 1,327,955; Jan. 13; v. 270; p. 262.
Hendricks, Allan B., Jr., Pittsfield, Mass., assignor to General Electric Company. Electric heater. No. 1,362,622; Dec. 21; v. 281; p. 424.
Hendricks, Basil W., Barry, Ill. Gasolene-engine. No. 1,359,890; Nov. 23; v. 280; p. 677.
Hendricks, Benjamin L., Macon, Ga. Auto safety locking device. No. 1,331,642; Feb. 24; v. 271; p. 551.
Hendricks, Benjamin L., Macon, Ga. Locking device. No. 1,338,131; Apr. 27; v. 273; p. 664.
Hendricks, Carl R., Jersey City, N. J. Etching apparatus. No. 1,339,457; May 11; v. 274; p. 226.
Hendricks, Essex H. (See Freeman, Jones L., assignor.)
Hendricks, Grover C., Dugger, Ind. Carbid-lamp. No. 1,331,430; Feb. 17; v. 271; p. 490.
Hendricks, Walter L., Aurora, Ill. Tractor. No. 1,338,919; May 4; v. 274; p. 50.
Hendricks, Walter L., Aurora, Ill. Harvesting-machine. No. 1,344,130; June 22; v. 275; p. 675.
Hendrickson, Arnt, Minneapolis, Minn. Adjustable deflector for hot-air furnaces. No. 1,354,746; Oct. 5; v. 279; p. 59.
Hendrickson, John H., Cleveland, Ohio. Laundry-machine. No. 1,332,257; Mar. 2; v. 272; p. 15.
Hendrickson, John H., assignor to The Hendrickson Machine Company, Cleveland, Ohio. Gearing for laundry machinery. No. 1,347,221; July 20; v. 276; p. 494.
Hendrickson, John H., and R. E. Frizzell, Cleveland, Ohio; said Frizzell assignor to said Hendrickson. Ice-cream-cutting machine. No. 1,346,405; July 13; v. 276; p. 274.
Hendrickson Machine Company, The. (See Hendrickson, John H., assignor.)
Hendrickson, Mary A. K., Loup City, Nebr. Envelop-sealer. No. 1,333,489; Mar. 9; v. 272; p. 300.
Hendrickson, William A., assignor to McWhorter Manufacturing Company, Riverton, N. J. Fertilizer-distributer. No. 1,346,650; July 13; v. 276; p. 323.
Hendron, James M., Springfield, Ill. Automatic injector. No. 1,347,035; July 20; v. 276; p. 458.
Hendry, William F., Ossining, assignor to Western Electric Company, Incorporated, New York, N. Y. Welding-machine. No. 1,360,948; Nov. 30; v. 280; p. 952.
Henebergh, John A., assignor of one-half to B. T. Hickman, Kansas City, Mo. Corn-planter. No. 1,330,586; Feb. 10; v. 271; p. 263.
Henegar, James E., Vandalia, Mo. Self-locking washer. No. 1,332,626; Mar. 2; v. 272; p. 87.
Henemier, Robert H., New York, N. Y. Pneumatic tire. No. 1,330,587; Feb. 10; v. 271; p. 263.
Henger, Edwin W., assignor to The Chase Companies, Inc., Waterbury, Conn. Terminal post for battery-carbons. No. 1,345,853; July 6; v. 276; p. 103.
Henger, Edwin W., assignor to The Chase Companies Inc., Waterbury, Conn. One-piece wrought-metal pipe connection for bathtubs. No. 1,363,181; Dec. 21; v. 281; p. 533.
Henggi, Gottfried, Bellingham, Wash. Wire-reel. No. 1,354,555; Oct. 5; v. 279; p. 22.
Hengstenberg, Paul M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Switch. No. 1,332,040; Feb. 24; v. 271; p. 626.
Henig, August J., and J. E. Titus, assignors to Henig Engine Co., Chicago, Ill. Rotary engine. No. 1,332,468; Mar. 2; v. 272; p. 56.
Henig Engine Co. (See Henig, A. J., and Titus, assignors.)
Henig Engine Co. (See Henig, Frank L., assignor.)
Henig, Frank L., Chicago, Ill., assignor, by mesne assignments, to Henig Engine Co. Inlet or check valve. No. 1,342,216; June 1; v. 275; p. 119.
Henig, Frank L., Chicago, Ill., assignor, by mesne assignments, to Henig Engine Co. Inlet or check valve. No. 1,350,610; Aug. 24; v. 277; p. 655.
Henig, Frank L., assignor to Henig Engine Co., Chicago, Ill., Pneumatic tool. No. 1,352,191; Sept. 7; v. 278; p. 91.
Henigman, August, Bokoshe, Okla. Target. No. 1,327,998; Jan. 13; v. 270; p. 270.
Henius, Max, assignor to F. Mendelsohn, Chicago, Ill. Treating oranges. No. 1,343,915; June 22; v. 275; p. 634.
Henke, Frank R. (See Driggs, G. W., and Henke.)
Henley, George S., Rochester, N. Y. Lock. No. 1,355,043; Oct. 5; v. 279; p. 118.
Henley's, W. T., Telegraph Works Company. (See Grover, Charles, assignor.)
Henne, Isabelle. (See Preo, J. L., and Henne.)
Henneböhle, Frank, Chicago, Ill. Back-pressure and relief valve. No. 1,344,300; June 22; v. 275; p. 708.
Henner, George W., Rochester, N. Y. Fuel-supply system for internal-combustion engines. No. 1,334,491; Mar. 23; v. 272; p. 595.
Hennessy, Daniel E., Holyoke, Mass., assignor to Cowan Truck Company. Hydraulic jack. No. 1,327,470; Jan. 6; v. 270; p. 109.
Hennessy, Daniel E., Holyoke, assignor to The Sturdi-Truck Company, Northampton, Mass. Wheeled elevating device. No. 1,359,372; Nov. 16; v. 280; p. 529.
Hennessy, Daniel E., Holyoke, Mass., assignor to The Sturdi-Truck Company, Northampton, Mass. Wheeled elevating device. No. 1,360,112; Nov. 23; v. 280; p. 721.
Hennessy, Daniel E., Cudahy, Wis., assignor to Cowan Truck Company. Elevating-truck. No. 1,361,257; Dec. 7; v. 281; p. 54.
Hennessy, Daniel E., and J. McGeorge, assignors to H. W. Cowan, J. L. Wyckoff, and E. N. White, trustees, Holyoke, Mass. Electrically-operated elevating-platform truck. No. 1,331,198; Feb. 17; v. 271; p. 447.
Hennicke, Charles A., Cleveland, Ohio. Coupling device or splice for wagon or trailer tongues. No. 1,339,335; May 4; v. 274; p. 126.
Hennicke, Charles A., Cleveland, Ohio. Extension-bracket for platform-bolsters of motor-trucks. No. 1,363,785; Dec. 28; v. 281; p. 690.
Henning, Albert, Leytonstone, London, England. Agent for refrigeration plants. No. 1,356,765; Oct. 26; v. 279; p. 595.
Henning, August H., Milwaukee, Wis. Brush and making same. No. 1,326,929; Jan. 6; v. 270; p. 9.
Henning, Clarence I. B. (See Woodbridge, R. J., Jr., Casey, and Henning.)
Henning, Clarence I. B., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Propellent powder and making same. No. 1,336,463; Apr. 13; v. 273; p. 208.
Henning, Clarence I. B., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Propellent powder, and making same. No. 1,357,865; Nov. 2; v. 280; p. 127.
Henning, Sherburne B. (See Sponsler, O. L., Dunlap and Henning.)
Henning, Sherburne B., Madison, Wis., assignor to the United States of America. Manufacturing plywood. No. 1,329,402; Feb. 3; v. 271; p. 11.
Henning, Sherburne B., Rhinelander, Wis., assignor to the United States of America. Glue and manufacturing same. No. 1,329,599; Feb. 3; v. 271; p. 48.
Henriksen, Lars J., Kållinge, Sweden. Shoe-heel and producing same. No. 1,328,249; Jan. 13; v. 270; p. 318.
Henriksen, Lars J., Kållinge, Sweden. Machine for joining of pieces of leather. No. 1,337,069; Apr. 13; v. 273; p. 320.
Henrikson, Bernhardt, Chicago, Ill. Hose-clamp tool. No. 1,347,579; July 27; v. 276; p. 622.
Henry, A. S. (See Fuller, Charles D., assignor.)
Henry, Abner E., Greensburg, Pa. Demountable wheel-rim. No. 1,327,759; Jan. 13; v. 270; p. 226.
Henry, Albert, and G. V. B. Fricke, Hoboken, N. J. Shoe-protector. No. 1,328,957; Jan. 27; v. 270; p. 518.
Henry, Charles, Manayunk, Pa. Auger. No. 1,358,545; Nov. 9; v. 280; p. 323.
Henry, Charles A., Paris, France. Rail-fastening. No. 1,348,112; July 27; v. 276; p. 728.
Henry, David C., New York, N. Y. System of differential magnetic transmission. No. 1,333,415; Mar. 9; v. 272; p. 286.
Henry, Emile, Paris, France, assignor to Societe Anonyme Des Hauts-Fourneaux et Fonderies de Pont-A-Mousson, Meurthe et Moselle, France. Pavement. No. 1,347,855; July 27; v. 276; p. 677.
Henry, Ernest J., Cedar Rapids, Iowa. Window-bed. No. 1,340,609; May 18; v. 274; p. 501.
Henry, Eugene E., Stockton, Calif. Hacksaw-grinder. No. 1,336,959; Apr. 13; v. 273; p. 298.
Henry, George R., Denver, Colo. Flying-machine. No. 1,339,336; May 4; v. 274; p. 126.
Henry, George W., Jr., assignor to H. G. Davis Manufacturing Company, Philadelphia, Pa. Numbering attachment for pin-ticketing machines. No. 1,352,959; Sept. 14; v. 278; p. 278.
Henry, George W., Jr., assignor to H. G. Davis Manufacturing Company, Philadelphia, Pa. Pin-tag. No. 1,358,546; Nov. 9; v. 280; p. 323.
Henry, Hubert K., Detroit, Mich., assignor to Rex Typewriter Company, Chicago, Ill. Typewriting-machine. No. 1,341,424; May 25; v. 274; p. 728.
Henry, Hubert K., Detroit, Mich., assignor, by mesne assignments, to Rex Typewriter Company, Inc., Fond du Lac, Wis. Escapement mechanism for typewriting-machines. No. 1,362,696; Dec. 21; v. 281; p. 438.
Henry, Jeremiah F., Ansonia, Conn. Air-pump. No. 1,332,041; Feb. 24; v. 271; p. 626.
Henry, John W., New York, N. Y. Seat-fastening device No. 1,355,669; Oct. 12; v. 279; p. 292.
Henry, John W., Crawfordsville, Ind. Making rugs. No. 1,361,055; Dec. 7; v. 281; p. 15.
Henry, Louis I., Toulon, France. Automatic stabilising apparatus. No. 1,335,893; Apr. 6; v. 273; p. 36.
Henry, Mary L., Jacksonville, Ill. Window-polisher. No. 1,344,890; June 29; v. 275; p. 889.
Henry, Murray, assignor of one-eighth to R. C. Scarborough, South San Antonio, Tex. Burner. No. 1,331,431; Feb. 17; v. 271; p. 490.

Digitized by Google

Henry, Nelson B., assignor, by mesne assignments, to M. H. Miller, Atlanta, Ga. Baling fibrous materials. No. 1,327,471; Jan. 6; v. 270; p. 109.
Henry, Nelson B., assignor, by mesne assignments, to M. H. Miller, Atlanta, Ga. Compress. No. 1,327,472; Jan. 6; v. 270; p. 110.
Henry, Nelson B., Atlanta, Ga., assignor to The Murray Company, Dallas, Tex. Press-plate for cotton-seed and other oil presses. No. 1,348,004; July 27; v. 276; p. 706.
Henry, Nelson B., Atlanta, Ga., assignor to The Murray Company, Dallas, Tex. Oil-expressing cage and press. No. 1,356,623; Oct. 26; v. 279; p. 567.
Henry, Nelson B., Atlanta, Ga., assignor to The Murray Company, Dallas, Tex. Cage for oil-presses. No. 1,357,052; Oct. 26; v. 279; p. 651.
Henry, Oliver H., Chicago, Ill. Wrench. No. 1,333,174; Mar. 9; v. 272; p. 241.
Henry, Thomas B., Northville, Mich. Combined towel and antiseptic pad. No. 1,353,854; Sept. 28; v. 278; p. 578.
Henry, William J., Akron, Ohio. Device for mechanically aiding the hand in writing. No. 1,336,432; Apr. 13; v. 273; p. 197.
Henry, William S., New York, assignor to General Railway Signal Company, Gates, N. Y. Circuit-controller. No. 1,352,215; Mar. 2; v. 272; p. 7.
Henry, William S., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Protective device for electric interlocking systems. No. 1,334,900; Mar. 23; v. 272; p. 674.
Hensal, Elmer A., Panora, Iowa. Extension-table. No. 1,328,243; Jan. 13; v. 270; p. 317.
Hensal, Elmer A., Panora, Iowa. Implement-tongue. No. 1,333,846; Mar. 16; v. 272; p. 428.
Hensal, Elmer A., Panora, Iowa. Non-skid device. No. 1,346,785; July 13; v. 276; p. 350.
Hensal, Elmer A., Panora, Iowa. Combined dishpan and rinser. No. 1,356,362; Oct. 19; v. 279; p. 470.
Henschel, Charles J., Brooklyn, N. Y. Electrically-operated vibratory motor. No. 1,336,519; Apr. 13; v. 273; p. 213.
Hensel, George A., Waterville, Wash. Straw-spreader. No. 1,343,265; June 15; v. 275; p. 440.
Hensel, Henry F., New London, and W. J. Stake, Sugar Bush, Wis. Manure-conveyer. No. 1,342,217; June 1; v. 275; p. 119.
Hensel, John S., Stevens Point, Wis. Traction-lug. No. 1,327,867; Jan. 13; v. 270; p. 246.
Hensel, William J., Auburn, Iowa. Shock-tying device. No. 1,358,845; Nov. 16; v. 280; p. 427.
Henshaw, F. R., trustee. (See Worden, Stanley B. T., assignor.)
Henske, Edward A. (See Trammell, Charles M., assignor.)
Hensley, Bird E., assignor of one-half to C. W. Meeker, Salem, Oreg. Bridle-bit. No. 1,335,964; Apr. 6; v. 273; p. 49.
Hensley, James Robert, Portland, Oreg. Fuel-mixer. No. 1,333,978; Mar. 16; v. 272; p. 453.
Henson, John C., Zwolle, La. Shade-bracket. No. 1,346,749; July 13; v. 276; p. 342.
Henson, John H., Firebaugh, Calif. Knife. No. 1,347,036; July 20; v. 276; p. 458.
Henter, Leo A. (See Grupe, Roy M., assignor.)
Hentig, Edward R., San Diego, Calif. Grease-gun. No. 1,329,662; Feb. 3; v. 271; p. 59.
Hentschel, Paul J., Baltimore, Md. Bottle-stopper. No. 1,352,062; Sept. 7; v. 278; p. 68.
Hentschke, Paul, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Reversible combustion-engine. No. 1,333,416; Mar. 9; v. 272; p. 286.
Henwood, Abraham, Cynwyd, Pa. Oxidizing ammonia to nitric acid. No. 1,347,158; July 20; v. 276; p. 482.
Henwood, Abraham, Cynwyd, Pa. Oxidizing ammonia to nitric acid. No. 1,347,159; July 20; v. 276; p. 482.
Henwood, Abraham, Cynwyd, Pa. Catalytically combining gases. No. 1,347,160; July 20; v. 276; p. 482.
Hepburn, Charles J., *et al.* (See Matthiessen, Conrad S., assignor.)
Heppes, Otto A., Chicago, Ill., and C. E. Rahr, Brookline, Mass. Making prepared roofing. No. 1,338,624; Apr. 27; v. 273; p. 756.
Hepworth, S. S., Company, *et al.* (See Mackintosh, Edward D., assignor.)
Herb, Jacob J., Toronto, Ontario, Canada. Clothes-wringer attachment for washtubs. No. 1,348,797; Aug. 3; v. 277; p. 128.
Herbeil, Louis, Carcassonne, France. Apparatus for supplying electric current to a moving vehicle. No. 1,329,403; Feb. 3; v. 271; p. 11.
Herbert, Abelardo, assignor of twenty-five one-hundredths to T. de los Heros y Jacome and thirty-seven and one-half one-hundredths to T. Handley, Lima, Peru. Graphophone. No. 1,332,722; Mar. 2; v. 272; p. 105.
Herbert, Abelardo, assignor of twenty-five one-hundredths to T. de los Heros y Jacome and thirty-seven and one-half one-hundredths to T. Handley, Lima, Peru. Graphophone. No. 1,332,723; Mar. 2; v. 272; p. 105.
Herbert, Arthur W., Youngstown, Ohio, assignor to The General Fireproofing Company. Safety-tread structure. No. 1,328,875; Jan. 27; v. 270; p. 502.
Herbert, Clarence C., Lincoln, Nebr. Sterilizing-pan. No. 1,343,779; June 15; v. 275; p. 542.
Herbert, Jacob. Detroit, Mich. Portrait finger-ring. No. 1,334,859; Mar. 23; v. 272; p. 666.
Herbert, Pitt H., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,347,462; July 20; v. 276; p. 542.
Herbert, Pitt H., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,349,378; Aug. 10; v. 277; p. 296.
Herbrand Company, The. (See Giebel, J., and Zimmerman, assignors.) (Reissue.)
Herbst, Robert L., Hortonville, Wis. Pulley. No. 1,348,415; Aug. 3; v. 277; p. 56.
Herbst, Samuel H., Jr., Fullerton, Pa. Compound grinder and pulverizer. No. 1,358,739; Nov. 16; v. 280; p. 407.
Herbst, William B., Columbus, Ind. Wind-shield screen. No. 1,337,472; Apr. 20; v. 273; p. 469.
Herche, James, Oakland, Calif. Grinding-machine. No. 1,355,093; Oct. 5; v. 279; p. 128.
Herchert, Edwin J., Postville, Iowa. Tire-cover. No. 1,342,169; June 1; v. 275; p. 109.
Herck, Jean, New York, N. Y., assignor to La Societe Lyonnaise Des Rechauds Catalytiques, Camell, Cochet, Gritte & Cie., Lyon, France. Catalytic heating apparatus. No. 1,347,631; July 27; v. 276; p. 632.
Hercules Manufacturing Company. (See Berkeley, Laurence J., assignor.)
Hercules Machinery Company. (See Gies and Lewis, assignors.)
Hercules Powder Company. (See Banigan, Thomas F., assignor.)
Hercules Powder Company. (See Vanderkleed, Charles E., assignor.)
Herd, W. M., *et al.* (See Johnson, Albert S., assignor.)
Herdman, William J., Toronto, Ontario, Canada. Thermostatic valve. No. 1,327,277; Jan. 6; v. 270; p. 74.
Hering, Carl, Philadelphia, Pa. Apparatus for aerial navigation. No. 1,353,955; Sept. 28; v. 278; p. 578.
Hering, Carl, Philadelphia, Pa. Destroying cellular structures. No. 1,355,476; Oct. 12; v. 279; p. 255.
Hering, Charles, New York, N. Y. Tank attachment. No. 1,355,742; Oct. 12; v. 279; p. 306.
Herington, Thomas E. (See Hughes, J. E., and Herington.)
Herink, Henry J. (See Ward, F. M., Bygrave, and Herink.)
Herle, Chester A., Rochester, N. Y. Coin-actuated appliance. No. 1,330,870; Feb. 17; v. 271; p. 385.
Herlenius, Jonas, Brooklyn, assignor to Hamilton & Hansell, Inc., New York, N. Y. Electric furnace. No. 1,338,631; Apr. 27; v. 273; p. 757.
Herlihy, Daniel, and M. H. Fisher, Chicago, Ill.; said Fisher assignor to said Herlihy. Wrench. No. 1,349,762; Aug. 17; v. 277; p. 444.
Herman, Claude A., Bridgeport, Conn. Screwdriver. No. 1,362,697; Dec. 21; v. 281; p. 439.
Herman, Jacob E., *et al.* (See Kuhn, Adam M., assignor.)
Herman, Joseph L., assignor to Keystone Steel & Wire Company, Bartonville, Ill. Bundling-press. No. 1,358,952; Nov. 16; v. 280; p. 449.
Herman, Leo, and F. J. Karg, Akron, Ohio. Change-speed gearing. No. 1,358,547; Nov. 9; v. 280; p. 328.
Herman Pneumatic Machine Company. (See Ringle, Robert F., assignor.)
Herman, Samuel J., and C. M. MacKenzie, assignors to Diamond Power Specialty Company, Detroit, Mich. Boiler-tube cleaner. No. 1,337,557; Apr. 20; v. 273; p. 485.
Herman, William M., San Jose, Calif. Spray-nozzle. No. 1,346,750; July 13; v. 276; p. 343.
Hermani, Henry, Baltimore, and J. S. D. Auld, Highlandtown, assignors to Tin Decorating Company, Baltimore, Md. Apparatus for assembling formed blanks. No. 1,331,503; Feb. 24; v. 271; p. 524.
Hermann, Charles, assignor to Eccentric Ferris Wheel Amusement Company, Incorporated, New York, N. Y. Amusement apparatus. No. 1,354,436; Sept. 28; v. 278; p. 676.
Hermann, Charles Z., Los Angeles, Calif. Non-stretchable mattress. No. 1,333,979; Mar. 16; v. 272; p. 458.
Hermann, Max P., Philadelphia, Pa. Ruling-pen. No. 1,340,895; May 25; v. 274; p. 626.
Hermanowich, Stephen, Ellwood City, Pa. Combination-lock. No. 1,358,445; Nov. 9; v. 280; p. 303.
Hermanson, Albert G., Prescott, Wis. Clothespin. No. 1,363,592; Dec. 28; v. 281; p. 653.
Hermanson, Dora, Albert Lea, Minn. Fastener. No. 1,331,106; Feb. 17; v. 271; p. 430.
Herminghuysen, Christ. Van Wert, Ohio. Railway-tie. No. 1,346,651; July 13; v. 276; p. 323.
Hernacki, John, Alexandria, La. Shade-roller support. No. 1,352,264; Sept. 7; v. 278; p. 105.
Hernandez y Perez, Francisco, Habana, Cuba. Lubricated hinge. No. 1,338,251; Apr. 27; v. 273; p. 687.
Herndon, O. K., *et al.* (See Sherman, Louie A., assignor.)
Herndon, William T., Parkton, N. C. Plow. No. 1,351,850; Sept. 7; v. 278; p. 28.
Hero, Numa C., New Orleans, La. Machine for drying foodstuffs. No. 1,358,313; Nov. 9; v. 280; p. 276.
Herold, Harry H., Fort Worth, Tex., and T. F. Williams, Quincy, Mass, said Herold assignor to said Williams. Automobile-radiator. No. 1,360,949; Nov. 30; v. 280; p. 952.
Heron, Sam D. (See Green, F. M., and Heron.)

Digitized by Google

Heros y Jacome, Teodomiro de los, *et al.* (See Herbert, Abelardo, assignor.)
Herpst, Herman A., Norway, Mich. Pump. No. 1,327,868; Jan. 13; v. 270; p. 246.
Herr, Abram B., assignor of one-third to E. M. Royer and one-third to J. H. Moseman, Lancaster, Pa. Can-washing machine. No. 1,340,768; May 18; v. 274; p. 531.
Herr, Herbert T., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Geared turbine. No. 1,339,508; May 11; v. 274; p. 235.
Herr, Herbert T., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Power-developing apparatus. No. 1,343,671; June 15; v. 275; p. 520.
Herr, Herbert T., Pittsburgh, Pa. Transmission mechanism. No. 1,346,888; July 20; v. 276; p. 429.
Herr, Park A., Saybrook, N. J., assignor to The Singer Manufacturing Company. Sewing-machine. No. 1,329,763; Feb. 3; v. 271; p. 78.
Herren, Willard H., Heppner, Oreg. Safety gun-trigger. No. 1,360,950; Nov. 30; v. 280; p. 952.
Herreshoff, Alexander G. (See Leipert, A. H., and Herreshoff, assignors.)
Herreshoff, Alexander G. (See Masury, A. F., and Herreshoff.)
Herreshoff, Algernon S. D., Bristol, R. I. Oil-burning boiler. No. 1,348,563; Aug. 3; v. 277; p. 84.
Herrick, Gerardus P., New York, N. Y. Tool for tensioning wire. No. 1,330,705; Feb. 10; v. 271; p. 285.
Herrick, Henry N., Bakersfield, Calif. Apparatus for separating solids from liquids. No. 1,349,881; Aug. 17; v. 277; p. 466.
Herrick, Percy H., Pittsburgh, Pa. Toy vehicle. No. 1,349,509; Aug. 10; v. 277; p. 321.
Herrick, Smith J., Santa Cruz, Calif. Vaporizer. No. 1,359,373; Nov. 16; v. 280; p. 529.
Herrin, E. F., *et al.* (See Porter, Frank S., assignor.)
Herring, Harlo M., Marshall, Minn. Air-supplying apparatus. No. 1,331,473; Feb. 17; v. 271; p. 498.
Herring, Samuel R., Delhi, La. Plow. No. 1,346,751; July 13; v. 276; p. 343.
Herrington, John A. D., Tupelo, Miss., assignor of one-fourth to E. B. Hulsey, Earle, Ark., one-fourth to W. A. Blair, and one-fourth to G. H. Hill, Tupelo, Miss. Testing apparatus. No. 1,350,368; Aug. 24; v. 277; p. 606.
Herrman, George E. (See Herrman, John L. and G. E.)
Herrman, John L. and G. E., Mica, Wash. Bag-holder. No. 1,340,714; May 18; v. 274; p. 521.
Herrmann, Arthur L., Detroit, Mich. Armband. No. 1,346,374; July 13; v. 276; p. 268.
Herrmann, Dora L., and A. A. Johnson, Washington, D. C. Cook-book and the like. No. 1,354,395; Sept. 28; v. 278; p. 668.
Herrmann, Frederick G. (See Mevers, Charles W., and Herrmann.)
Herrmann, George E., Morristown, and Benjamin W. Tucker, South Orange, N. J.; said Tucker assignor to said Herrmann. Barrel. No. 1,358,203; Nov. 9; v. 280; p. 254.
Herrmann, Oscar, New York, N. Y. Educational device for objective teaching. No. 1,343,721; June 15; v. 275; p. 531.
Herrmann, Raymond R., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone set. No. 1,340,955; May 25; v. 274; p. 637.
Herron, Horace B. (See Case, William E., assignor.)
Herron, William L., Brooklyn, N. Y. Blowpipe apparatus. No. 1,358,637; Nov. 9; v. 280; p. 341.
Herschede Hall Clock Company, The. (See Herschede, W. J. and Cohan, assignors.)
Herschede, W. J., and C. Cohan, assignors to The Herschede Hall Clock Company, Cincinnati, Ohio. Speed-regulating device. No. 1,352,419; Sept. 7; v. 278; p. 134.
Herschmann, Arthur J., New York, N. Y. Fluid-container. No. 1,351,330; Aug. 31; v. 277; p. 857.
Herschmann, Arthur J., New York, N. Y. Fluid-receptacle. No. 1,351,331; Aug. 31; v. 277; p. 857.
Hersee, Frederick C., Boston, Mass. Timer. No. 1,338,015; Apr. 27; v. 273; p. 642.
Hershaw, Grindrod. (See Holt, F. A., and Hershaw.)
Hershey, C. K. (See Kent, Alexander W., assignor.)
Hershey, Harry E. (See Yanochowski, G. A., and Hershey.)
Hershey, Harry E., Whitewater, Kans., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,338,370; Apr. 27; v. 273; p. 709.
Hershey, Martin E., Arlington, N. J. Air-exhauster for steam-radiators. No. 1,352,265; Sept. 7; v. 278; p. 106.
Hershey, Omer E., Gap, Pa. Spring-seat. No. 1,341,555; May 25; v. 274; p. 754.
Herskovitz, Max. Chicago, Ill. Electric attachment-plug. No. 1,359,171; Nov. 16; v. 280; p. 489.
Herskovitz, Max, assignor to Peerless Light Company, Chicago, Ill. Electric-light structure. No. 1,361,461; Dec. 7; v. 281; p. 98.
Herst, Hiram H., Ocean View, Va. Shirt. No. 1,342,906; June 8; v. 275; p. 307.
Hertel, Charles, and J. Simpson, Shamokin, Pa. Machine for twisting and setting threads. No. 1,330,534; Feb. 10; v. 271; p. 254.
Hertel, Otto H., Glen Ellyn, assignor, by mesne assignments, to Krehbiel Company, Chicago, Ill. Automatic air control for furnaces. No. 1,358,204; Nov. 9; v. 280; p. 254.
Hertel, Otto H., Glen Ellyn, assignor, by mesne assignments, to Krehbiel Company, Chicago, Ill. Furnace. No. 1,363,734; Dec. 28; v. 281; p. 680.
Hertner Electric Company, The. (See Hertner, John H., assignor.)
Hertner, John H., Lakewood, assignor, by mesne assignments, to The Hertner Electric Company, Cleveland, Ohio. Protecting means for dynamo-electric machines. No. 1,336,520; Apr. 13; v. 273; p. 213.
Hertner, John H., assignor, by mesne assignments, to The Hertner Electric Company, Cleveland, Ohio. Method and apparatus for starting motors. No. 1,343,451; June 15; v. 275; p. 476.
Hervieu, Gaston, and P. M. G. Maréchal, London, England. Shed for airships, aeroplanes, and the like. No. 1,353,956; Sept. 28; v. 278; p. 579.
Herwick, Owen P., Portland, Oreg. Coaster. No. 1,362,865; Dec. 21; v. 281; p. 472.
Herz, Alfred, Chicago, Ill. Relay mechanism for flow-meters and other uses. No. 1,331,065; Feb. 17; v. 271; p. 428.
Herz, Alfred, assignor of one-half to Edmund O. Schweitzer, Chicago, Ill. Fuse device. (Reissue.) No. 14,844; Apr. 20; v. 173; p. 568.
Herz, Gustave L., New York, N. Y. Spark-plug. No. 1,361,580; Dec. 7; v. 281; p. 121.
Herzberger, Alfred A. (See Fritz, L. G., and Herzberger.)
Herzog, John, Saginaw, Mich. Wood-turning machine. No. 1,343,319; June 15; v. 275; p. 450.
Herzog, John, Saginaw, Mich. Warped panel and forming same. No. 1,343,320; June 15; v. 275; p. 451.
Herzog, John, Saginaw, Mich., assignor to Sonora Phonograph Company, Inc., New York, N. Y. Lid-support for talking-machines. No. 1,352,602; Sept. 14; v. 278; p. 207.
Herzog, Soma, New York, N. Y. Hobby-horse or similar article. No. 1,338,448; Apr. 27; v. 273; p. 723.
Herzog, Soma, New York, N. Y. Toy. No. 1,338,449; Apr. 27; v. 273; p. 724.
Hescock, Ethan N., Westfield, N. J., and E. F. Smith, Woodhaven, N. Y., assignors to New Jersey Foundry and Machine Company. Portable elevator. No. 1,344,271; June 22; v. 275; p. 703.
Hescock, Ethan N., Westfield, N. J., and E. F. Smith, Woodhaven, N. Y., assignors to New Jersey Foundry and Machine Company. Portable elevator. No. 1,344,272; June 22; v. 275; p. 703.
Hescock, Ethan N., Westfield, N. J., and E. F. Smith, Woodhaven, N. Y., assignor to New Jersey Foundry & Machine Company. Portable elevator. No. 1,356,281; Oct. 19; v. 279; p. 454.
Heslewood, William R., assignor of one-third to P. J. Rowland, Oakland, Calif. Carbureter. No. 1,327,205; Jan. 6; v. 270; p. 61.
Hess-Bright Manufacturing Company. (See Hottinger, Emil, assignor.)
Hess-Bright Manufacturing Company. (See Sherman, Cortis F., assignor.)
Hess, Charles. (See Kabaci, John, assignor.)
Hess, Clare W., Flint, Mich. Carbureter. No. 1,354,041; Sept. 28; v. 278; p. 596.
Hess, George H., La Grange Park, Ill. Furnace. No. 1,358,370; Nov. 9; v. 280; p. 288.
Hess, Henry, Philadelphia, Pa. Pencil. No. 1,327,236; Jan. 6; v. 270; p. 67.
Hess, Henry, Philadelphia, Pa. Pencil. No. 1,358,548; Nov. 9; v. 280; p. 323.
Hess, Henry, assignor to Hess-Ives Corporation, Philadelphia, Pa. Roll-film or similar camera for color photography. No. 1,330,535; Feb. 10; v. 271; p. 254.
Hess, Henry K., Syracuse, N. Y. Treating timber. No. 1,344,891; June 29; v. 275; p. 889.
Hess-Ives Corporation. (See Hess, Henry, assignor.)
Hess, Meyer S., Baltimore, Md. Shoe. No. 1,354,971; Oct. 5; v. 279; p. 104.
Hess, Meyer S., Baltimore, Md. Shoe. No. 1,354,972; Oct. 5; v. 279; p. 104.
Hess, Michael, Indianapolis, Ind., assignor to International Printing Company. Box-forming machine. No. 1,335,735; Apr. 6; v. 273; p. 6.
Hess, Simon B. (See Goldstein, Albert, assignor.)
Hess, Simon B., Jamaica, N. Y. Electric signaling system. No. 1,351,422; Aug. 31; v. 277; p. 875.
Hess, Simon B., New York, N. Y. Fire-alarm system. No. 1,351,514; Aug. 31; v. 277; p. 893.
Hess, Simon B., Jamaica, N. Y. Fire-alarm system. (Reissue.) No. 15,005; Dec. 14; v. 281; p. 366.
Hess, Willis C. (See Morden, M., and Hess.)
Hesse, Leopold, Oberbruch, near Aachen, assignor to Vereinigte Glanzstoff-Fabriken A. G., Elberfeld, Germany. Manufacturing tubular products of cellulose or compounds of cellulose. No. 1,341,745; June 1; v. 275; p. 26.
Hesse, Otto H., assignor to Wm. G. Hesse & Son Mfg. Company, Leavenworth, Kans. Fifth-wheel and turning-bolster for trailers. No. 1,330,805; Feb. 17; v. 271; p. 372.

Digitized by Google

Alphabetical list of patentees—Continued.

Hesse, Wm. G., & Son Mfg. Company. (See Hesse, Otto H., assignor.)
Hessel, William F., New York, N. Y. Electrical switch device. (Reissue.) No. 14,950; Sept. 21; v. 278; p. 507.
Hesselman, Knut J. E., Saltsjö-Storängen, Sweden. Fluid-pump for multicylinder-internal-combustion engine. No. 1,348,646; Aug. 3; v. 277; p. 100.
Hessey, John L., Philadelphia, Pa. Mixing-knife. No. 1,350,098; Aug. 17; v. 277; p. 508.
Hessler, John O. (See Richer, J. R., and Hessler.)
Hester, Edgar A., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system for electric furnaces. No. 1,349,379; Aug. 10; v. 277; p. 296.
Hester, George C., assignor to Brasco Manufacturing Company, Chicago, Ill. Making sheet-metal-covered members. No. 1,363,413; Dec. 28; v. 281; p. 617.
Hester, George C., assignor to Hester Manufacturing Company, Chicago, Ill. Store-front construction. No. 1,363,735; Dec. 28; v. 281; p. 680.
Hester, Luther. (See Latham, C. L., and Hester.)
Hester Manufacturing Company. (See Hester, George C., assignor.)
Hester, Walter F. (See Pickens, J. A., and Hester.)
Hestley, Walter W., Greensboro, N. C. Loom picker-stick check. No. 1,337,070; Apr. 13; v. 273; p. 320.
Hetherington, Carl F., Indianapolis, Ind. Combined asphalt-kettle and steam-generating plant. No. 1,350,502; Aug. 24; v. 277; p. 634.
Hetherington, George, Philadelphia, Pa. Sound-box for talking-machines. No. 1,339,337; May 4; v. 274; p. 127.
Hettrich, John, Lincoln, Nebr. Mechanical movement. No. 1,348,880; Aug. 10; v. 277; p. 197.
Hettrich, John, Lincoln, Nebr. Mechanical movement. No. 1,357,288; Nov. 2; v. 280; p. 17.
Hetzel, Frederic V., West Chester, Pa., assignor to Link-Belt Company, Chicago, Ill. Manufacturing wheels, rollers, and like machine parts. No. 1,331,259; Feb. 17; v. 271; p. 458.
Heuser, Herman, Evanston, Ill. Manufacture of alcohol-reduced beer. (Reissue.) No. 14,889; June 22; v. 275; p. 771.
Heusser, Wilfrid, Salt Lake City, Utah. Multiple-weight attachment for precision-balances. No. 1,345,180; June 29; v. 275; p. 944.
Hevel, Frank, G. C. Harrington, and Wm. Hevel, McCune, Kans. Corn-planter. No. 1,348,130; July 27; v. 276; p. 732.
Hevel, William. (See Hevel, F., Harrington, and Hevel.)
Hewes, Lewis J., Oak Park, Ill., assignor to Traylor Engineering & Mfg. Co., Allentown, Pa. Crusher. No. 1,329,835; Feb. 3; v. 271; p. 92.
Hewett, John R., Schenectady, N. Y. Breach-mat. No. 1,345,771; July 6; v. 276; p. 87.
Hewett, Robert J., Westfield, N. J. Directionally-controlled signal system. No. 1,362,994; Dec. 21; v. 281; p. 496.
Hewett, Robert J., Westfield, N. J., and S. M. Ward, Jr., Woodmere, assignors to J. T. Clarke, New York, N. Y. Block-signaling system. No. 1,362,942; Dec. 21; v. 281; p. 486.
Hewey, Peleg T., Malden, Mass. Knockdown tool-box. No. 1,350,099; Aug. 17; v. 277; p. 508.
Hewitt, Edgar R., Plattsburg, N. Y. Double-heading air-brake system. No. 1,345,181; June 29; v. 275; p. 944.
Hewitt, Frank W., Arlington, assignor to Simplex Electric Heating Company, Cambridge, Mass. Electric heating unit. No. 1,328,229; Jan. 13; v. 270; p. 314.
Hewitt, Fred L., assignor to M. E. Converse & Son Co., Winchendon, Mass. Refrigerator. No. 1,327,473; Jan. 6; v. 270; p. 110.
Hewitt, George W., Wheeling, W. Va., and A. Steinbart, Pittsburgh, Pa. Apparatus for cleaning gases. No. 1,344,585; June 22; v. 275; p. 765.
Hewitt, Harry, Manchester, assignor of one-half to Joseph Baker & Sons Limited, London, England. Dividing dough. No. 1,326,930; Jan. 6; v. 270; p. 9.
Hewitt, Hazel M., North Glendale, Calif. Reading-table. No. 1,332,835; Mar. 2; v. 272; p. 126.
Hewitt, Peter C., Ringwood Manor, N. J. Electric circuit. No. 1,328,326; Jan. 20; v. 270; p. 369.
Hewitt, Peter C., Ringwood Manor, N. J. Electric circuit. No. 1,328,327; Jan. 20; v. 270; p. 370.
Hewitt, Peter C., Ringwood Manor, N. J. Cooling fire-arms. No. 1,329,903; Feb. 3; v. 271; p. 105.
Hewitt, Peter C., Ringwood Manor, N. J. Flying-machine. No. 1,350,454; Aug. 24; v. 277; p. 624.
Hewitt, Peter C., Ringwood Manor, N. J. Helicopter. No. 1,350,455; Aug. 24; v. 277; p. 625.
Hewitt, Peter C., Ringwood Manor, N. J. Helicopter. No. 1,350,456; Aug. 24; v. 277; p. 625.
Hewitt, Strafford R., assignor of one-half to Dowman-Dozier Mfg. Co., Atlanta, Ga. Metal sash-bar. No. 1,329,600; Feb. 3; v. 271; p. 48.
Hewitt, Thomas J., Grand Forks, N. D. Finger-board attachment. No. 1,351,570; Aug. 31; v. 277; p. 905.
Hewitt, William B., Holyoke, Mass., assignor, by mesne assignments, to Worthington Pump and Machinery Corporation, New York, N. Y. Pump. No. 1,331,504; Feb. 24; v. 271; p. 524.
Hewitt, William R., San Francisco, Calif. Woodworking-machine. No. 1,363,593; Dec. 28; v. 281; p. 653.
Hewson, Edward M., Jr., assignor of one-half to E. M. Hewson, Sr., Waterford, N. Y. Automatic train-stop. No. 1,329,709; Feb. 3; v. 271; p. 68.
Hexter, Julian S., Kansas City, Mo., assignor to Underwood Typewriter Company, New York, N. Y. Sheet-collating. No. 1,330,871; Feb. 17; v. 271; p. 385.
Hey, John G., Cincinnati, Ohio. Belt-gearing for drill-presses. No. 1,363,786; Dec. 28; v. 281; p. 690.
Heydecke, Emil L., Orange, N. J. Folding scaffold. No. 1,356,819; Oct. 26; v. 279; p. 605.
Heyder, Richard, Forest Hills, assignor to Williamsburg Chemical Company, Inc., Brooklyn, N. Y. Nitrating chlorbenzol. No. 1,330,074; Feb. 10; v. 271; p. 168.
Heydon, Edward, Indianapolis, Ind. Trolley-wheel. No. 1,358,205; Nov. 9; v. 280; p. 254.
Heydt, George H., assignor to Western Electric Company, Incorporated, New York, N. Y. Substation-sender. No. 1,355,971; Oct. 19; v. 279; p. 391.
Heyerdahl, Thorvald, Christiania, Norway. Telescopic joint for high-pressure water-conduits. No. 1,382,886; Mar. 2; v. 272; p. 126.
Heyerdahl, Thorvald, Christiania, Norway. Connection between a water-tube and a pressure-basin mounting the water-tube. No. 1,342,286; June 1; v. 275; p. 132.
Heyl, Firm Cornelius. (See Schulz, Heinrich, assignor.)
Heyl, Frederick, New York, N. Y. Clothespin. No. 1,330,320; Feb. 10; v. 271; p. 213.
Heyl & Patterson, Incorporated. (See Bickley, R. M., and Mason, assignors.)
Heyl & Patterson, Incorporated. (See Brown, Raymond E., assignor.)
Heylman, Edward M., assignor to Oliver Chilled Plow Works, South Bend, Ind. Agricultural implement. No. 1,333,980; Mar. 16; v. 272; p. 454.
Heylman, Edward M., assignor to Oliver Chilled Plow Works South Bend, Ind. Plow. No. 1,344,586; June 22; v. 275; p. 765.
Heylman, Frederick C., Martinez, Calif. Stop-cock. No. 1,354,460; Sept. 28; v. 278; p. 681.
Heylman, Frederick C., Martinez, Calif. Expansion pipe-joint. No. 1,363,974; Dec. 28; v. 281; p. 726.
Heylmun, Harry H., Long Beach, Calif. Optical instrument. No. 1,355,397; Oct. 12; v. 279; p. 240.
Heyman, Albert, and C. C. Vervoort, Brooklyn, N. Y. Compensating safety clothesline-hanger. No. 1,360,951; Nov. 30; v. 280; p. 952.
Heyman, Harry R., Berkeley, Calif. Circle-spacing device. No. 1,344,587; June 22; v. 275; p. 766.
Heymann, Oscar. (See Figenshu, William L., assignor.)
Heymann, Philip S. (See Heymann, Sidney, assignor.)
Heymann, Sidney, Far Rockaway, N. Y., assignor of one-half to P. S. Heymann, Pittsburgh, Pa. Automobile-jack. No. 1,344,036; June 22; v. 275; p. 657.
Heymann, Sidney, Far Rockaway, N. Y., assignor of one-half to P. S. Heymann, Pittsburgh, Pa. Automobile-jack. No. 1,344,037; June 22; v. 275; p. 657.
Heyroth, Albert H., Geraldine, Mont. Wind-wheel electric generator. No. 1,352,960; Sept. 14; v. 278; p. 278.
Heys, John J., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. No. 1,341,746; June 1; v. 275; p. 27.
Heywood Brothers and Wakefield Company. (See Lang, E. C., and Van Derveer, assignors.)
Heywood, Charles. (See Heywood, James and C.)
Heywood, Frederick W., Prahran, Melbourne, Australia. Metal-cutting tool. No. 1,348,279; Aug. 3; v. 277; p. 30.
Heywood, James, Manchester, and C. Heywood, Stockport, England. Roller-lap stop-motion. No. 1,342,713; June 8; v. 275; p. 268.
Heywood, Vincent E. Worcester, Mass. Making window-envelops. No. 1,353,588; Sept. 21; v. 278; p. 462.
Hezmalhalch, Thomas, *et al.* (See Yeats, Samuel W., assignor.)
Hiatt, Charles A. (See Lee, R., and Hiatt.)
Hiatt, Elwood D., Broken Arrow, Okla. Well-rig. No. 1,332,496; Mar. 2; v. 272; p. 62.
Hiatt, George M. (See Stick, J. E., and Hiatt.)
Hiatt, James L. (See Drey, L. A., and Hiatt.)
Hiatt, James L., Sapulpa, Okla., assignor to Schram Glass Manufacturing Company, St. Louis, Mo. Conveyer. No. 1,334,453; Mar. 23; v. 272; p. 589.
Hiatt, Ray, Esbon, Kans. Balanced slide-valve. No. 1,363,872; Dec. 28; v. 281; p. 707.
Hibarger, Oscar C., Wichita, Kans. Holder. No. 1,360,215; Nov. 23; v. 280; p. 741.
Hibba, Cassell D., Fort Worth, Tex. Adjustable tire-mold. No. 1,361,764; Dec. 7; v. 281; p. 157.
Hibbard, Henry D., Plainfield, N. J. Furnace. No. 1,362,532; Dec. 14; v. 281; p. 355.
Hibner, Philip D., Seattle, Wash. Internal-combustion engine. No. 1,342,108; June 1; v. 275; p. 97.
Hibner, Philip D., Seattle, Wash. Throttle-valve. No. 1,345,772; July 6; v. 276; p. 87.
Hibner, Philip D., Seattle, Wash. Rotary engine. No. 1,345,773; July 6; v. 276; p. 88.
Hibner, Philip D., Seattle, Wash. Valve. No. 1,361,581; Dec. 7; v. 281; p. 122.
Hick, Harry J., Alliance, Ohio. Equalizing-retainer for tire-chains. No. 1,335,165; Mar. 30; v. 272; p. 784.

Digitized by Google

Hickam, Charlie C., Portsmouth, Va. Envelop. No. 1,358,846; Nov. 16; v. 280; p. 428.
Hickey, John J., New York, N. Y. Drip-water safe. No. 1,342,287; June 1; v. 275; p. 132.
Hickey, Thomas F. (See Law, George A., assignor.)
Hickey, Timothy W., Abington, Mass. Hinge. No. 1,336,780; Apr. 13; v. 273; p. 264.
Hickman, Brooking T. (See Henebergh, John A., assignor.)
Hickman, Harry, Port Penn, Del. Train-stopping apparatus. No. 1,332,837; Mar. 2; v. 272; p. 126.
Hickman, William J., Springfield, Ill. Article-support. No. 1,361,056; Dec. 7; v. 281; p. 15.
Hickok, Emory, Engle, and A. H. Hollenbeck, Fair View, N. Mex. Cattle-guard. No. 1,344,535; June 22; v. 275; p. 755.
Hickok, Henry N., Rochester, N. Y. Fruit-harvester. No. 1,339,338; May 4; v. 274; p. 127.
Hickok Manufacturing Company. (See Heberling, John, assignor.)
Hickok, Phil M., San Jose, Calif. Automobile driving-axle. No. 1,331,565; Feb. 24; v. 271; p. 536.
Hickok, W. O., Manufacturing Company. (See Broadmeyer, Albert, assignor.)
Hicks, Benjamin, Sedley, Va. Fertilizer-distributer. No. 1,332,125; Feb. 24; v. 271; p. 641.
Hicks, Charles L., Easley, S. C. Bobbin-cleaning machine. No. 1,339,888; May 11; v. 274; p. 308.
Hicks, Clifton J., Riverdale, Md. Filing-cabinet. No. 1,354,973; Oct. 5; v. 279; p. 105.
Hicks, John, Calgary, Alberta, Canada. Ore-separator No. 1,346,824; July 20; v. 276; p. 416.
Hicks, Linzy, Omaha, Nebr., assignor to The O'Brien-Hicks Iceless Container Company. Heat-insulating container. No. 1,334,302; Mar. 23; v. 272; p. 560.
Hicks, Rex P., assignor to Hicks Tractor Company, Milwaukee, Wis. Tractor. No. 1,341,851; June 1; v. 275; p. 47.
Hicks, Rex P., assignor to Hicks Tractor Company, Milwaukee, Wis. Control mechanism for tractors. No. 1,355,336; Oct. 12; v. 279; p. 229.
Hicks, Rex P., assignor to Hicks Tractor Company, Milwaukee, Wis. Steering mechanism. No. 1,359,505; Nov. 23; v. 280; p. 600.
Hicks Tractor Company. (See Hicks, Rex P., assignor.)
Hidalgo, Oscar, Valparaiso, Chile. Duplicator. No. 1,347,743; July 27; v. 276; p. 655.
Hidden, Charles P., Brookline, assignor to The Lamson Company, Boston, Mass. Pneumatic-despatch tube. No. 1,332,895; Mar. 9; v. 272; p. 189.
Hidden, Charles P., Providence, R. I., assignor to Nitrogen Products Company. Furnace. No. 1,348,175; Aug. 3; v. 277; p. 8.
Hidden, Charles P., assignor to Nitrogen Products Company, Providence, R. I. Process and means for producing metallic cyanids. No. 1,352,192; Sept. 7; v. 278; p. 91.
Hidden, Charles P., Providence, R. I., assignor to Nitrogen Products Company. Fixing atmospheric nitrogen. No. 1,352,193; Sept. 7; v. 278; p. 92.
Hide Leather & Belting Company. (See Kinnaird, R. S., assignor.)
Hleatzman, Arthur H., Baltimore, Md. Meat-slicing machine. No. 1,339,623; May 11; v. 274; p. 258.
Hiegel, Joseph L., Dallas, Tex., assignor to H. W. Caldwell & Son Company, Chicago, Ill. Coupling. No. 1,359,989; Nov. 23; v. 280; p. 696.
Hien, Phillip, assignor of one-eighth to T. F. Sheridan and one-eighth to G. L. Wilkinson, Chicago, Ill. Shock-absorber. No. 1,338,371; Apr. 27; v. 273; p. 709.
Higdon, Emma, Elwood, Ind. Turning sheet and pad. No. 1,334,901; Mar. 23; v. 272; p. 674.
Higdon, Orville B., Waterloo, Iowa. Card-indexing device. No. 1,359,990; Nov. 23; v. 280; p. 697.
Higgins, Albert G., Kansas City, Mo. Shield attachment for picks. No. 1,358,206; Nov. 9; v. 280; p. 254.
Higgins, Albert L., Bar Harbor, Me. Bottle-cap remover. No. 1,345,182; June 29; v. 275; p. 944.
Higgins, Camillus B. (See Machek, L., and Higgins.)
Higgins, Frank G., Spokane, Wash. Catamenial bandage. No. 1,342,588; June 8; v. 275; p. 244.
Higgins, Frank G., and R. L. Miller, Spokane, Wash. Automatic railway-train stop. No. 1,363,594; Dec. 28; v. 281; p. 653.
Higgins, Frank G., and R. L. Miller, Spokane, Wash. Automatic-controlled railway stopping system. No. 1,363,595; Dec. 28; v. 281; p. 653.
Higgins, George E., Modesto, Calif. Shock-absorber. No. 1,359,701; Nov. 23; p. 280; p. 639.
Higgins, George H. (See Jennison, J., and Higgins.)
Higgins, Joseph W., Bordentown, N. J. Demountable rim. No. 1,339,651; May 11; v. 274; p. 263.
Higgins, Thomas G., Brierley Hill, England. Draw-bar coupling. No. 1,341,556; May 25; v. 274; p. 754.
Higgons, Warren W., Port Chester, N. Y. Plaited dress goods and manufacturing the same. No. 1,362,698; Dec. 21; v. 281; p. 439.
Higgs, John A., Wareham, Mass. Bottle-opener. No. 1,351,646; Aug. 31; v. 277; p. 920.
Higgs, William H., Detroit, Mich. Slicing-gage. No. 1,356,067; Oct. 19; v. 279; p. 411.
High, John E., Great Falls, Mont. Match-scratcher. No. 1,338,920; May 4; v. 274; p. 50.
High Temperature Generators Limited. (See Bynoe, Frederick O., assignor.)
Higham, Harold. (See Bayles, E. A., and Higham.)
Highkin, David S., Baltimore, Md. Dental bridgework. No. 1,345,595; July 6; v. 276; p. 53.
Highkin, David S., Baltimore, Md. Posterior interchangeable tooth and backing for bridgework. No. 1,348,798; Aug. 3; v. 277; p. 128.
Highkin, David S., Baltimore, Md. Posterior interchangeable tooth and backing for bridgework. No. 1,348,799; Aug. 3; v. 277; p. 128.
Highkin, David S., Baltimore, Md. Interchangeable tooth and backing for bridgework. No. 1,357,289; Nov. 2; v. 280; p. 17.
Highway Tractor Company, The. (See McCutchen, Charles G., assignor.)
Highway Tractor Company. (See Schaaf, A. E., and Mills, assignors.)
Higley, Herman W., Yonkers, N. Y. Sanitary dish-washer. No. 1,362,533; Dec. 14; v. 281; p. 355.
Higley, Walter C., Toledo, Ohio. Aeroplane. No. 1,356,206; Oct. 19; v. 279; p. 439.
Higson, Albert J., Jersey City, N. J., assignor to The J. G. Wilson Corporation. Folding partition. No. 1,360,525; Nov. 30; v. 280; p. 870.
Higuchi, Monnosuke, College Point, N. Y. Rice-cake-baking apparatus. No. 1,330,706; Feb. 10; v. 271; p. 286.
Hilbert, Baptiste, deceased, assignor of one-half to G. H. Hilbert, Worcester, Mass.; J. L. Hilbert, executrix. Loom. No. 1,351,515; Aug. 31; v. 277; p. 893.
Hilbert, George H. (See Hilbert, Baptiste, assignor.)
Hilbert, Julie L., executrix. (See Hilbert, Baptiste.)
Hilbish, John E., La Grange, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. No. 1,337,976; Apr. 20; v. 273; p. 566.
Hildahl, George J., assignor of one-haf to O. H. Jerve, Clarkfield, Minn. Cable stretcher and holder. No. 1,334,370; Mar. 23; v. 272; p. 573.
Hildebrand, Harry D., Pittsburgh, Pa. Heat-exchanger. No. 1,340,266; May 18; v. 274; p. 436.
Hildebrand, Harry D., Mount Vernon, Ohio. Exchanging heat. No. 1,340,267; May 18; v. 274; p. 436.
Hildebrand, Reinhard, Webster Groves, Mo., assignor of one-half to G. D. Pogue, Philadelphia, Pa. Reversing mechanism for internal-combustion engines. No. 1,356,820; Oct. 26; v. 279; p. 605.
Hildebrand, Richard E., Chicago, Ill. Spark-plug intensifier. No. 1,353,657; Sept. 21; v. 278; p. 477.
Hildebrand, William R., assignor to Printing Press Extension Delivery Company, New York, N. Y. Printing-press attachment. No. 1,358,152; Nov. 9; v. 280; p. 244.
Hildenbiddle, Homer. (See Carver, A. E., and Hildenbiddle.)
Hilder, Stuart, Glencarlyn, Va., assignor to F. Berenstein, Chelsea, Mass. Rubber tread for boots and shoes. No. 1,330,638; Feb. 10; v. 271; p. 272.
Hilderbran, P. A. (See Glynn, Guilford C., assignor.)
Hildreth, Clarence G. (See Rodgers, Stewart D., assignor.)
Hildreth, Lawrence, Lexington, Ky. Door-latch. No. 1,335,235; Mar. 30; v. 272; p. 796.
Hildreth, Lawrence, Lexington, Ky. Door-lock. No. 1,359,374; Nov. 16; v. 280; p. 529.
Hildreth, Ned E., Lincoln, Nebr. Engine-support. No. 1,341,902; June 1; v. 275; p. 57.
Hildreth, Ned E., Lincoln, Nebr. Cooling system for engines. No. 1,357,981; Nov. 9; v. 280; p. 210.
Hilemon, Joseph J., Chicago, Ill. Hose-supporter. No. 1,333,417; Mar. 9; v. 272; p. 286.
Hiley, Alfred. (See Thurston, T. G. O., and Hiley.)
Hilferty, Charles D., Yonkers, assignor to Locomotive Superheater Company, New York, N. Y. Drifting and by-pass valve. No. 1,351,168; Aug. 31; v. 277; p. 824.
Hillaker, August, Salem, Oreg. Prune-treating machine. No. 1,346,315; July 13; v. 276; p. 257.
Hilger, Adam, Limited. (See Banfield, Arthur C., assignor.)
Hilger, Adam, Limited. (See Twyman, Frank, assignor.)
Hilger, Anthony J., Milwaukee, and R. Urchniak, West Allis, Wis. Vehicle signaling device. No. 1,338,078; Apr. 27; v. 273; p. 654.
Hilger, George, Chicago, Ill. Ammonia-compressor. No. 1,354,190; Sept. 28; v. 278; p. 627.
Hilgers, Gerrit, Rotterdam, Netherlands. Locking and releasing device for boat-tackles. No. 1,331,432; Feb. 17; v. 271; p. 490.
Hilgers, Gerrit, Rotterdam, Netherlands. Tackle-block. No. 1,356,363; Oct. 19; v. 279; p. 470.
Hilk, William A. (See Tranmer, Fred, assignor.)
Hilkey, Charles J., Des Moines, Iowa. Book-holder and line-guide. No. 1,357,053; Oct. 26; v. 279; p. 651.
Hill, Aaron, Los Angeles, Calif. Lubricating device for gang-drills. No. 1,329,663; Feb. 3; v. 271; p. 59.
Hill, Alfred N., Lund, Sweden. Measuring instrument. No. 1,328,876; Jan. 27; v. 270; p. 502.
Hill, Arthur H. (See Farquhar, M. G., and Hill.)

Digitized by Google

Hill, Arthur W., Belmond, Iowa. Electric-conductor take-up; No. 1,340,268; May 18; v. 274; p. 436.
Hill, Charles B., San Francisco, Calif. Linotype-mold. No. 1,343,171; June 8; v. 275; p. 359.
Hill, Charles K., Cleveland, Ohio, assignor to Pressure Proof Piston Ring Company, Boston, Mass. Piston-ring. No. 1,359,596; Nov. 23; v. 280; p. 618.
Hill, Charles W., Forest City, Ill. Rail-clamp. No. 1,338,450; Apr. 27; v. 278; p. 724.
Hill, Charles W., Edgewood, Pa., assignor to Westinghouse Electric and Manufacturing Company. Solder. No. 1,333,619; Mar. 16; v. 272; p. 886.
Hill, Chauncy H., assignor of one-half to Minneapolis Threshing Machine Co., Hopkins, Minn. Band-cutter and feeder. No. 1,350,802; Aug. 24; v. 277; p. 692.
Hill, Chester L., Lancaster, Pa. Bleaching asbestos. No. 1,346,316; July 13; v. 276; p. 257.
Hill, Clarence A., Columbus, assignor to The Champion Kerosene-Burner Company, Kenton, Ohio. Kerosene-gas-burning furnace. No. 1,352,063; Sept. 7; v. 278; p. 68.
Hill, Cortland L., *et al.* (See Anderson, Chester H., assignor.)
Hill, Ernst V., Worcester, assignor to National Sales Machine Company, Boston, Mass. Coin-selector. No. 1,354,647; Oct. 5; v. 279; p. 40.
Hill, Ernst V., Worcester, assignor to National Sales Machine Company, Boston, Mass. Coin-selector. No. 1,354,648; Oct. 5; v. 279; p. 41.
Hill, George. (See Boozer, Arthur G., assignor.)
Hill, George H., *et al.* (See Herrington, John A. D., assignor.)
Hill, George H., deceased; H. T. Hill, administratrix, Schenectady, N. Y. Ignition system for internal-combustion engines. No. 1,334,095; Mar. 16; v. 272; p. 475.
Hill, George S., Strafford, N. H., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Buttonhole-sewing machine. No. 1,332,664; Mar. 2; v. 272; p. 93.
Hill, George S., Strafford, N. H., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sewing-machine. No. 1,352,514; Sept. 14; v. 278; p. 189.
Hill, George S., Strafford, N. H., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sewing-machine. No. 1,353,837; Sept. 28; v. 278; p. 555.
Hill, George S., Strafford, N. H., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sewing-machine. No. 1,358,847; Nov. 16; v. 280; p. 428.
Hill, George S., Strafford, N. H., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Take-up mechanism. No. 1,361,057; Dec. 7; v. 281; p. 15.
Hill, George W., New York, N. Y., assignor to American Tobacco Company. Cigarette-pouch package. No. 1,344,635; June 29; v. 275; p. 840.
Hill, Guy. (See Steinberger, L., and Hill.)
Hill, Guy, Washington, D. C. Combined wave-changer and wave-meter. No. 1,338,984; May 4; v. 274; p. 61.
Hill, Guy, Washington, D. C. Wave-changer for radio signaling apparatus. No. 1,345,007; June 29; v. 275; p. 910.
Hill, Harry W., assignor to American Optical Company, Southbridge, Mass. Forming lenses. No. 1,332,724; Mar. 2; v. 272; p. 105.
Hill, Harry W., assignor to American Optical Company, Southbridge, Mass. Lens-molding machine. No. 1,332,725; Mar. 2; v. 272; p. 105.
Hill, Harry W., assignor to American Optical Company, Southbridge, Mass. Lens. No. 1,340,715; May 18; v. 274; p. 521.
Hill, Harry W., assignor to American Optical Company, Southbridge, Mass. Chart. No. 1,351,332; Aug. 31; v. 277; p. 858.
Hill, Harry W., assignor to American Optical Company, Southbridge, Mass. Optical lens. No. 1,362,309; Dec. 14; v. 281; p. 312.
Hill, Hazel T., administratrix. (See Hill, George H.)
Hill, Herbert M., New York, N. Y., assignor to Paper Utilities Corporation. Coin-controlled device for dispensing cups. No. 1,344,692; June 29; v. 275; p. 851.
Hill, Herbert R., Exeter, Nebr. Automobile-radiator curtain. No. 1,334,270; Mar. 16; v. 272; p. 507.
Hill, Homer A., Washington, D. C. Flying-machine. No. 1,330,321; Feb. 10; v. 271; p. 214.
Hill, Howard L. (See Lorber, J., and Hill.)
Hill, Hugh, and J. B. Dyer, Anderson, Ind.; said Dyer assignor to said Hill. Dust-separator. No. 1,339,757; May 11; v. 274; p. 283.
Hill, Hugh G., assignor, by mesne assignments, to Whitaker-Glessner Company, Wheeling, W. Va. Mechanical movement. No. 1,342,170; June 1; v. 275; p. 110.
Hill, Hugh S. (See Fleming, I., and Hill.)
Hill, James D., Scottdale, Pa. Internal-combustion engine. No. 1,347,856; July 27; v. 276; p. 678.
Hill, James D., Scottdale, Pa. Airplane. No. 1,347,857; July 27; v. 276; p. 678.
Hill, James F., Salem, Ohio. Combination spear and cutter. No. 1,338,773; May 4; v. 274; p. 28.
Hill, John, Jr., Dandridge, Tenn. Sawmill-knee-adjusting mechanism. No. 1,327,555; Jan. 6; v. 270; p. 126.
Hill, John G., Chattanooga, Tenn. Rail plate and fastener. No. 1,338,016; Apr. 27; v. 273; p. 642.
Hill, Joseph H., Wilmington, Del. Tire. No. 1,340,339. May 18; v. 274; p. 450.
Hill, Joseph M., Twin Falls, Idaho. Portable general-utility derrick. No. 1,345,008; June 29; v. 275; p. 910.
Hill, Josephus, Tunesassa, N. Y. Combination weeder and transplanter. No. 1,356,146; Oct. 19; v. 279; p. 427.
Hill, Lemreaux, Elvins, Mo. Bank-protector. No. 1,358,638; Nov. 9; v. 280; p. 341.
Hill, Lottie M. (See Chapman, G., and Hill.)
Hill, Louis A., Washington, D. C. Vehicle-windshield. No. 1,341,464; May 25; v. 274; p. 736.
Hill, Melvin E., Los Angeles, Calif. Match-lighter. No. 1,336,698; Apr. 13; v. 273; p. 248.
Hill, Myron F., New York, N. Y. Electric welding-machine. No. 1,330,468; Feb. 10; v. 271; p. 241.
Hill, Nellie N., Moultrie, Ga. Cigar-lighter. No. 1,330,941; Feb. 17; v. 271; p. 399.
Hill, Norman C., Freeport, Pa., and H. L. Moyler, Petersburg, Va. Manufacture of nitric acid. No. 1,362,418; Dec. 14; v. 281; p. 331.
Hill Pump Valve Company, The. (See Heller, Eugene H., assignor.)
Hill Pump Valve Company, The. (See Jaeger and Heller, assignors.)
Hill Pump Valve Company. (See Reich, Ernest, assignor.)
Hill, Raymond I., assignor to The Hill Rubber Heel Company, Elyria, Ohio. Resilient heel or heel-lift. No. 1,328,564; Jan. 20; v. 270; p. 414.
Hill, Raymond I., assignor to The Hill Rubber Heel Company, Elyria, Ohio. Method of inserting inserts in rubber heels. No. 1,329,524; Feb. 3; v. 271; p. 35.
Hill, Raymond I., assignor to The Hill Rubber Heel Company, Elyria, Ohio. Rubber heel. No. 1,331,199; Feb. 17; v. 271; p. 447.
Hill, Reginald J. H., assignor of one-half to M. J. Railing, London, England. Electric cigar-lighter, pipe-lighter, and the like. No. 1,340,716; May 18; v. 274; p. 521.
Hill, Richard D., Electra, Tex. Pipe-tongs. No. 1,332,984; Mar. 9; v. 272; p. 206.
Hill, Robert R., Verona, N. J. Spark-plug. No. 1,345,440; July 6; v. 276; p. 22.
Hill, Robert R., Verona, N. J. Spark-plug. No. 1,360,294; Nov. 30; v. 280; p. 825.
Hill, Rowland C., assignor to Simonds Manufacturing Company, Fitchburg, Mass. Tool-handle. No. 1,360,991; Nov. 30; v. 280; p. 961.
Hill, Roy L., Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del. Explosive mixture. No. 1,334,303; Mar. 23; v. 272; p. 560.
Hill, Roy L., Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del. Explosive mixture. No. 1,360,397; Nov. 30; v. 280; p. 844.
Hill, Roy L., Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del. Explosive mixture. No. 1,360,398; Nov. 30; v. 280; p. 845.
Hill, Roy L., Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del. Explosive mixture. No. 1,360,399; Nov. 30; v. 280; p. 845.
Hill Rubber Heel Company, The. (See Hill, Raymond I., assignor.)
Hill, Sylvester, Newark, N. J. Safety appliance for automobiles. No. 1,334,371; Mar. 23; v. 272; p. 573.
Hill, Thomas, New York, N. Y. Attachment means for receptacle-covers. No. 1,334,243; Mar. 16; v. 272; p. 502.
Hill, Thomas, New York, N. Y. Radiator-cap lock. No. 1,358,549; Nov. 9; v. 280; p. 323.
Hill, Thomas A., Brooklyn, N. Y., assignor, by mesne assignments, to The J. G. Wilson Corporation. Roller for partitions and doors. No. 1,328,043; Jan. 13; v. 270; p. 279.
Hill, Thomas J. (See Thompson, Charles E., assignor.)
Hill, Walter C., Los Angeles, Calif. Arch-support. No. 1,351,248; Aug. 31; v. 277; p. 840.
Hill, Walter G., Chicago, Ill. Scribing device. No. 1,351,476; Aug. 31; v. 277; p. 886.
Hill, William E., Alton, N. H. Incubator attachment. No. 1,351,647; Aug. 31; v. 277; p. 920.
Hill, William G., Brooklyn, N. Y. Male urinal device. No. 1,327,042; Jan. 6; v. 270; p. 31.
Hill, William G., Brooklyn, N. Y. Sanitary urinal. No. 1,330,588; Feb. 10; v. 271; p. 263.
Hill, William G., Brooklyn, N. Y. Dustless chalk-trough. No. 1,331,767; Feb. 24; v. 271; p. 574.
Hill, William H., Manati, Porto Rico. Self-cleaning tractor-wheel attachment. No. 1,334,699; Mar. 23; v. 272; p. 634.
Hill, William H., Canton, Ohio. Vehicle-spring construction. No. 1,334,700; Mar. 23; v. 272; p. 634.
Hill, William J., Montreal, Quebec, Canada. Refractory furnace. No. 1,363,787; Dec. 28; v. 281; p. 690.
Hill, William P., and A. B. Smith; said Smith assignor to G. R. Steinhauser, St. Louis, Mo. Clasp-suspender for trousers and the like. No. 1,333,075; Mar. 9; v. 272; p. 223.
Hill, William W., Sarona, Wis. Regulator for engines. No. 1,327,999; Jan. 13; v. 270; p. 270.

Digitized by Google

Hill, Willis C., Philadelphia, Pa. Shock-loader. No. 1,342,959; June 8; v. 275; p. 317.
Hill, Willis C., Philadelphia, Pa. Needle-threader. No. 1,360,400; Nov. 30; v. 280; p. 845.
Hillard, Frederic W., Tottenville, N. Y., assignor of one-half to M. R. Hillard, Middlebury, Conn. Typewriter. No. 1,337,977; Apr. 20; v. 273; p. 566.
Hillard, Frederic W., Tottenville, N. Y., assignor of one-half to F. R. Hillard, Middlebury, Conn. Typewriter-carriage and parts acting in conjunction therewith. No. 1,356,282; Oct. 19; v. 279; p. 454.
Hillard, Mary R. (See Hillard, Frederic W., assignor.)
Hille, Frank, Long Island City, N. Y. Automatic toothpick and match picker. No. 1,361,857; Dec. 14; v. 281; p. 222.
Hiller, Charles, assignor of one-half to S. G. Stahlhuth, St. Louis, Mo. Hot-air furnace, stove, and the like. No. 1,340,340; May 18; v. 274; p. 450.
Hiller, Joseph L., Mattapoisett, Mass., assignor to Pennsylvania Crusher Company, Philadelphia, Pa. Proportioning and dividing hopper. No. 1,354,747; Oct. 5; v. 279; p. 59.
Hiller, Nicolai H., Carbondale, Pa. Condenser and condensation. No. 1,360,748; Nov. 30; v. 280; p. 914.
Hiller, Theodore, and W. R. Myers, assignors to The Berger Manufacturing Company, Canton, Ohio. Posting appliance. No. 1,362,310; Dec. 14; v. 281; p. 312.
Hillery, Martin C. (See Hale, Perry T. W., assignor.)
Hilley, Seaborn A., Leonard, Tex. Jar and can lifter. No. 1,348,416; Aug. 3; v. 277; p. 57.
Hilley, William P., Des Moines, Iowa. Operating device for window-sashes. No. 1,329,178; Jan. 27; v. 270; p. 559.
Hillfield Body Company, The. (See Schofield, Frederick C., assignor.)
Hilliard, Albert W., Wheelersburg, Ohio. Hydraulic gear-jack. No. 1,344,510; June 22; v. 275; p. 750.
Hilliard, John M., assignor of one-half to C. W. Lott, Waco, Tex. Shear-trimmer. No. 1,328,671; Jan. 20; v. 270; p. 434.
Hilliker, Edwin E., East Aurora, N. Y. Liquid-fuel burner. No. 1,347,858; July 27; v. 276; p. 678.
Hillman, Ernest C., Los Angeles, Calif. Auxiliary windshield. No. 1,339,889; May 11; v. 274; p. 308.
Hillman, Herbert H., assignor to Challenge Refrigerator Company, Grand Haven, Mich. Refrigerator. No. 1,329,340; Jan. 27; v. 270; p. 588.
Hillman, Herbert H., assignor to Challenge Refrigerator Company, Grand Haven, Mich. Refrigerator. No. 1,362,101; Dec. 14; v. 281; p. 271.
Hillman, Swan, Rockford, Ill. Tool. No. 1,331,566; Feb. 24; v. 271; p. 536.
Hillman, Theodore H., Spooner, Wis. Weed-destroyer. No. 1,329,404; Feb. 3; v. 271; p. 11.
Hills, Agnes M., Stanfield, Oreg. Washing-machine. No. 1,333,916; Mar. 16; v. 272; p. 441.
Hills, Edward R. (See Borresen, Helge A., assignor.)
Hills, George T., Chicago, Ill. Universal lock and release for pulleys. No. 1,345,673; July 6; v. 276; p. 68.
Hills, Harry B., Tompkinsville, assignor to Steward Davit & Equipment Corporation, New York, N. Y. Ship's davit. No. 1,332,337; Mar. 2; v. 272; p. 30.
Hills, Harry B., Tompkinsville, assignor to Steward Davit & Equipment Corporation, New York, N. Y. Line-carrying gun. No. 1,332,338; Mar. 2; v. 272; p. 31.
Hills, Harry B., Tompkinsville, assignor to Steward Davit & Equipment Corporation, New York, N. Y. Ship's davit. No. 1,351,571; Aug. 31; v. 277; p. 905.
Hills, Henry A., Grand Rapids, Mich. Hydrocarbon-filter. No. 1,328,044; Jan. 13; v. 270; p. 279.
Hills, Henry A., Grand Rapids, Mich. Multistage adjustable filtering apparatus. No. 1,328,045; Jan. 13; v. 270; p. 279.
Hills, Henry A., Grand Rapids, Mich. Unitary multistage filter apparatus. No. 1,328,046; Jan. 13; v. 270; p. 279.
Hills, Henry A., Grand Rapids, Mich. Filter. No. 1,352,961; Sept. 14; v. 278; p. 279.
Hills, Ray D., Blanchard, Iowa. Flexible adjustable magneto-coupling. No. 1,340,610; May 18; v. 274; p. 502.
Hills, Sidney C., assignor to The Turner & Seymour Manufacturing Company, Torrington, Conn. Curtain-fixture. No. 1,361,058; Dec. 7; v. 281; p. 15.
Hillyer, James S., Duluth, Minn. Furnace. No. 1,356,147; Oct. 19; v. 279; p. 427.
Hilsee, Charles M., Philadelphia, Pa., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,331,768; Feb. 24; v. 271; p. 574.
Hilsee, Charles M., Philadelphia, Pa., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,340,542; May 18; v. 274; p. 488.
Hilsee, Charles M., Philadelphia, Pa., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,347,097; July 20; v. 276; p. 470.
Hilton, Fred, Manchester, England. Coin-freed-stamping apparatus. No. 1,336,960; Apr. 13; v. 273; p. 298.
Hilton, Herbert, New Bedford, Mass. Polish for automobiles. No. 1,331,260; Feb. 17; v. 271; p. 458.
Hilton, R. W. (See Catlin, G. L., and Morrison, assignors.)
Hilton, Ralph M., Newport News, Va. Hay-press. No. 1,332,177; Feb. 24; v. 271; p. 650.
Hilton, Roland C., Boston, assignor to E. N. Hunt, Reading, Mass. Air-pump. No. 1,363,788; Dec. 28; v. 281; p. 690.
Hilty, Frederick, Waukegan, assignor to L. R. Wilder, Chicago, Ill. Centsifugal valve-casting machine. No. 1,329,179; Jan. 27; v. 270; p. 559.
Hilty, Frederick, Waukegan, assignor to L. R. Wilder, Cook county, Ill. Cast puppet-valve. No. 1,347,542; July 27; v. 276; p. 614.
Hiltz, George S., Brooklyn, N. Y., assignor to Stock Quotation Telegraph Company. Printing-telegraph. No. 1,347,580; July 27; v. 276; p. 622.
Him, Thomas P. (See Hoffman, E. A., and Him.)
Himes, Burnie L., Brasfield, Ark. Loading and unloading device. No. 1,337,356; Apr. 20; v. 273; p. 448.
Himes Cohen Tractor Co. (See Himes, Walter H., assignor.)
Himes, Orville J., Oswego, N. Y. Umbrella-staff. No. 1,326,931; Jan. 6; v. 270; p. 9.
Himes, Walter H., assignor to Himes Cohen Tractor Co., Grove City, Pa. Tractor-plow. No. 1,348,995; Aug. 10; v. 277; p. 219.
Himmel, Solomon. (See Miller, Andrew E., assignor.)
Himmel, Solomon. (See Reymann, Joseph F., assignor.)
Himmel, Solomon. (See Woltz, Albert M., assignor.)
Himrod, Kirk, Ironton, Minn., assignor to P. W. McKay, trustee, Waterford, Pa. Kiln. No. 1,339,705; May 11; v. 274; p. 273.
Hinchey, Charlotte, Buffalo, N. Y. Denture. No. 1,327,674; Jan. 13; v. 270; p. 210.
Hinchman, Mortimer L., Brooklyn, N. Y. Safety-envelop blank. No. 1,351,851; Sept. 7; v. 278; p. 28.
Hinckley, Arthur T., Niagara Falls, N. Y., assignor to National Carbon Company, Inc. Refractory composition and making same. No. 1,346,959; July 20; v. 276; p. 448.
Hinckley, Frank C., assignor, by mesne assignments, to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Start and stop mechanism for talking-machines. No. 1,357,560; Nov. 2; v. 280; p. 67.
Hinckley, Percy P., assignor to Foster, Merriam & Company, Meriden, Conn. Combined valve-lifter and hand-vise. No. 1,350,803; Aug. 24; v. 277; p. 692.
Hinckley, Percy P., Meriden, Conn., assignor to Foster, Merriam & Company. Valve grinder. No. 1,350,804; Aug. 24; v. 277; p. 692.
Hindle, A. H., Birmingham, S. W. Savage, A. Liddle, and A. E. Dabbs, Manchester, assignors of one-half to J. G. W. Gruban, London, England. Cage for roller or ball bearings. No. 1,358,848; Nov. 16; v. 280; p. 428.
Hindle, Alfred H. (See Dabbs, A. E., Savage, and Hindle.)
Hindle, Alfred H., Brooklands, England. Roller-bearing. No. 1,356,766; Oct. 26; v. 279; p. 505.
Hindmarsh, Percy J., Lincoln, Nebr. Fencepost. No. 1,359,891; Nov. 23; v. 280; p. 677.
Hinds, Sherwood, Fort Wayne, Ind. Curb-pump. No. 1,345,774; July 6; v. 276; p. 88.
Hinds, Wheeler C., Geneva, Ill. Grain-separator. No. 1,333,757; Mar. 16; v. 272; p. 412.
Hindshaw, Henry H., Ann Arbor, Mich. Method and apparatus for treating peat and the like. No. 1,334,492; Mar. 23; v. 272; p. 596.
Hine, Efird L., Winston-Salem, N. C. Foot-measurer. No. 1,359,375; Nov. 16; v. 280; p. 529.
Hine, Lyman N. (See Pape, Frederic, A. G., assignor.)
Hiner, Ora W., and D. C. and E. A. Farnham, Jr., Butler, Ind. Animal-feeder. No. 1,346,024; July 6; v. 276; p. 137.
Hiner, Ora W., and D. C. and E. A. Farnham, Jr., Butler, Ind. Automatic stock-feeder. No. 1,346,025; July 6; v. 276; p. 138.
Hiner, Ora W., D. C. and E. A. Farnham, Jr., Butler, Ind. Swine-feeding apparatus. No. 1,346,026; July 6; v. 276; p. 138.
Hiner, Ora W., D. C. and E. A. Farnham, Jr., Butler, Ind. Automatic animal-feeder. No. 1,346,027; July 6; v. 276; p. 138.
Hinerfeld, Irving, New York, N. Y. Envelop sealing and stamping machine. No. 1,348,493; Aug. 3; v. 277; p. 70.
Hines, Edwin G., Drums, Pa. Draft-head for plow-beams. No. 1,344,131; June 22; v. 275; p. 675.
Hines, Frank H., Buffalo, Kans. Gear-adjuster. No. 1,333,490; Mar. 9; v. 272; p. 301.
Hines, John. (See Craigie, F., and Hines.)
Hiney, Joseph M., Middleton, Wis. Clutch-control device. No. 1,359,248; Nov. 16; v. 280; p. 504.
Hingley, N., & Sons. (See Curry, Thomas J., assignor.)
Hiniker, Frank, Chinese Camp, Calif. Combined plow and scraper. No. 1,359,376; Nov. 16; v. 280; p. 530.
Hinkle, Allison, Sedalia, Mo. Rake. No. 1,343,366; June 15; v. 275; p. 460.
Hinkle, Jerome B. (See Mildren, Lory J., assignor.)
Hinkson, Clair L., Newaygo, Mich. Kerosene-burning torch. No. 1,341,127; May 25; v. 274; p. 671.
Hinman, Arthur V. and R. L., Oneida, N. Y. Milking-machine. No. 1,330,114; Feb. 10; v. 271; p. 176.
Hinman, Charles W., Winchester, Mass. Gas-handling apparatus. No. 1,341,056; May 25; v. 274; p. 657.

Digitized by Google

Hinman Milking Machine Company. (See Hinman, Ralph L., assignor.)
Hinman, Ralph L. (See Hinman, Arthur V. and R. L.)
Hinman, Ralph L., assignor to Hinman Milking Machine Company, Oneida, N. Y. Milking-machine. No. 1,330,872; Feb. 17; v. 271; p. 385.
Hinnard, Oscar H. (See Nelson, A., and Hinnard.)
Hinnekens, Florent, Paterson, N. J. Tentering-clip. No. 1,339,509; May 11; v. 274; p. 236.
Hinricher, Gerhard A., Kansas City, Mo. Dumping device. No. 1,362,534; Dec. 14; v. 281; p. 355.
Hinrichs, Christian W., St. Louis, Mo. Refrigerator show-case. No. 1,356,283; Oct. 19; v. 279; p. 454.
Hinsdale, Frank G., New York, N. Y. Harpoon. No. 1,344,693; June 29; v. 275; p. 851.
Hinsdale, Winfield E., Trenton, N. J. Pipe-casing. No. 1,359,892; Nov. 23; v. 280; p. 677.
Hinsdale, Winfield E., assignor to Trenton Potteries Company, Trenton, N. J. Drinking-fountain. No. 1,329,601; Feb. 3; v. 271; p. 48.
Hinsdale, Winfield E., assignor to Trenton Potteries Company, Trenton, N. J. Sanitary fixture. No. 1,335,056; Mar. 30; v. 272; p. 768.
Hinsdale, Winfield E., assignor to Trenton Potteries Company, Trenton, N. J. Sanitary fixture. No. 1,340,611; May 18; v. 274; p. 502.
Hinshaw, Claud J., and H. B. Castor, Lapel, Ind. Pump. No. 1,346,652; July 13; v. 276; p. 323.
Hinson, John K., assignor of one-half to D. R. McCallum, Sumter, S. C. Ditch-drain. No. 1,362,419; Dec. 14; v. 281; p. 333.
Hintermann, Gottlieb. (See Fehlmann, A., and Hintermann.)
Hinton, Frank, Decatur, Ill. Means to prevent flooding basements &c. No. 1,329,405; Feb. 3; v. 271; p. 11.
Hinton, U. S. G. (See Rice, Orrin, assignor.)
Hinton, Ulysses S. G., Monterey Park, Calif. Automatic air control. No. 1,330,265; Feb. 10; v. 271; p. 208.
Hintz, Ernst, Wiesbaden, and H. Schulz, Worms, Germany. Drying patent-leather. No. 1,346,091; July 6; v. 276; p. 151.
Hintz, Joseph, Chicago, Ill. Cart. No. 1,339,624; May 11; v. 274; p. 258.
Hinz, Leo, Perth Amboy, N. J., assignor of one-half to F. Martin, New York, N. Y. Aeroplane. No. 1,353,957; Sept. 28; v. 278; p. 579.
Hinz, William H., *et al.* (See De Cano, Victor M., assignor.)
Hipes, Margaret, Santa Barbara, Calif. Dish-washing machine. No. 1,347,698; July 27; v. 276; p. 646.
Hipkins, Jesse N., Wheeling, W. Va., and F. C. Coss, Martins Ferry, Ohio. Water-motor. No. 1,348,800; Aug. 3; v. 277; p. 128.
Hipple, Oliver P., Wilkins township, Allegheny county, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,349,380; Aug. 10; v. 277; p. 296.
Hipple, Oliver P., assignor to Westinghouse Electric and Manufacturing Company, Bryn Mawr, Wilkinsburg township, Allegheny county, Pa. Control apparatus. No. 1,358,740; Nov. 16; v. 280; p. 407.
Hipple, Samuel S., Spring City, Pa. Stove. No. 1,355,556; Oct. 12; v. 279; p. 271.
Hire, Willis, Detroit, Mich. Envelop. No. 1,339,392; May 11; v. 274; p. 213.
Hirner, Emil A., Allentown, Pa. Spring-needle knitting-machine. No. 1,349,132; Aug. 10; v. 277; p. 246.
Hirsch, David, San Francisco, Calif. Artificial hand. No. 1,362,793; Dec. 21; v. 281; p. 458.
Hirsch, Morris, assignor to Bijur Motor Appliance Company, New York, N. Y. Electrical system for motor-vehicles and the like. No. 1,352,266; Sept. 7; v. 278; p. 106.
Hirsch, Oscar C., and A. R. Harnes, Cape Girardeau, Mo. Separator for storage batteries. No. 1,358,207; Nov. 9; v. 280; p. 255.
Hirschfeld, H., sen. (See Meyer, L., and Schiff, assignors.)
Hirschkind, Wilhelm, Pittsburg, assignor to California Alkali Company, San Francisco, Calif. Recovery or purification of potassium salts. No. 1,343,508; June 15; v. 275; p. 487.
Hirschwitz, Aaron, New Orleans, La. Miniature cotton-bale box. No. 1,357,866; Nov. 2; v. 280; p. 127.
Hirschy Company, The. (See Hirschy, Herman C., assignor.)
Hirschy, Herman C., Minneapolis, Minn. Washing-machine. No. 1,336,781; Apr. 13; v. 273; p. 264.
Hirschy, Herman C., assignor to The Hirschy Company, Minneapolis, Minn. Washing-machine. No. 1,349,338; Aug. 10; v. 277; p. 287.
Hirsh, Milton A., assignor to Cohn Goldwater Co., Los Angeles, Calif. Undergarment. No. 1,331,433; Feb. 17; v. 271; p. 490.
Hirshfeld, Jerome, New York, N. Y. Locking apparatus for dumb-waiter doors. No. 1,361,582; Dec. 7; v. 281; p. 122.
Hirshleimer, Harry J. (See Cameron, William W., assignor.)
Hirshstein, Joseph, St. Louis, Mo. Double-drainage roof-drain and sediment-cup. No. 1,348,945; Aug. 10; v. 277; p. 210.
Hirsohn, Isaac, New York, N. Y. Bucket-closure. No. 1,328,672; Jan. 20; v. 270; p. 434.
Hirst, Charles S., deceased, Philadelphia, Pa., C. I. Cronin and Logan Trust Company, executors. Culinary utensil. No. 1,350,651; Aug. 24; v. 277; p. 662.
Hirst, Franklin G., Philadelphia, Pa. Lubricator. No. 1,327,043; Jan. 6; v. 270; p. 31.
Hirst, Franklin G., Philadelphia, Pa. Trap. No. 1,338,079; Apr. 27; v. 273; p. 654.
Hirst, Harry R., Trenton, N. J. Repair-tool for tires. No. 1,343,971; June 22; v. 275; p. 644.
Hirst, Harry R., Trenton, N. J. Tool for inserting plugs in tires. No. 1,348,005; July 27; v. 276; p. 707.
Hirst, Harry R., assignor of one-half to F. S. Dearden, Trenton, N. J. Chalk-hanger. No. 1,360,295; Nov. 30; v. 280; p. 825.
Hirst, Henry, Dewsbury, England. Heading or tunneling machine. No. 1,361,996; Dec. 14; v. 281; p. 251.
Hirth, Carl A., Cannstatt, near Stuttgart, assignor to Fortuna-Werke Albert Hirth, Cannstatt, Germany. Machine for skiving leather. No. 1,348,221; Aug. 3; v. 277; p. 18.
Hirth, Louis G. (See Davis, William J., assignor.)
Hisamoto, Junzo, Nagoya City, assignor to Toyo-Kagaku-Yakin-Kabushiki-Kaisha (The Oriental Chemical Metallurgic Company, Limited), Tokyo, Japan. Drawing refractory metal. No. 1,345,441; July 6; v. 276; p. 22.
Hiss, Nelson, New York, N. Y., and F. D. Potter, Linden, N. J. Process of and apparatus for conveying motor-vehicles through tunnels and keeping tunnels free from noxious gases. No. 1,361,583; Dec. 7; v. 281; p. 122.
Hiss, William J., assignor to Diamond Expansion Bolt Company, New York, N. Y. Cable-clamp. No. 1,328,376; Jan. 20; v. 270; p. 379.
Hiss, William J., assignor to Diamond Expansion Bolt Company, New York, N. Y. Cable-clamp. No. 1,328,377; Jan. 20; v. 270; p. 379.
Histand, Harry H., Doylestown, Pa. Child's velocipede. No. 1,348,113; July 27; v. 276; p. 728.
Hitchcock Experiment Company. (See Hitchcock, Halbert K., assignor.)
Hitchcock, Halbert K., Pittsburgh, Pa. Apparatus for applying abrasives to grinding and smoothing mechanism. No. 1,336,521; Apr. 13; v. 273; p. 213.
Hitchcock, Halbert K., Pittsburgh, Pa. Sole. No. 1,340,341; May 18; v. 274; p. 450.
Hitchcock, Halbert K., Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Glass-drawing apparatus. No. 1,328,673; Jan. 20; v. 270; p. 434.
Hitchcock, Halbert K., assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Glass-drawing bait and using it. No. 1,349,200; Aug. 10; v. 277; p. 260.
Hitchcock, Halbert K., Pittsburgh, Pa., assignor of one-half to Hitchcock Experiment Company. Apparatus for drawing glass sheets. No. 1,349,201; Aug. 10; v. 277; p. 260.
Hitchens, George E. (See Alles, F. W., Fletcher, and Hitchens.)
Hitchner, Joseph C., Philadelphia, Pa. Repeating attachment for talking-machines. No. 1,339,199; May 4; v. 274; p. 102.
Hiteshew, Harvey B., Cleveland, Ohio. Making a composite casting of aluminum and another metal. No. 1,339,956; May 11; v. 274; p. 321.
Hitner, Harry F., Wilkinsburg, Pa., assignor to Pittsburgh Plate Glass Company. Ladling glass. No. 1,342,960; June 8; v. 275; p. 317.
Hitner, Harry F., Wilkinsburg, Pa., assignor to Pittsburgh Plate Glass Company. Device for severing glass. No. 1,359,172; Nov. 16; v. 280; p. 489.
Hitner, Harry F., Creighton, Pa., and T. E. Oakes, Mount Vernon, Ohio, assignors to Pittsburgh Plate Glass Company. Device for capping off glass cylinders. No. 1,339,200; May 4; v. 274; p. 102.
Hitt, Samuel E., Elyria, Ohio. Disappearing turret. No. 1,351,383; Aug. 31; v. 277; p. 868.
Hitzigrath, Paul E., Rockville Center, N. Y. Package. No. 1,352,962; Sept. 14; v. 278; p. 279.
Hix, Galen F., Portland, Me. Card-holder. No. 1,357,561; Nov. 2; v. 280; p. 67.
Hix, William L., Nashville, Tenn. Ice-cream-dispensing device. No. 1,342,675; June 8; v. 275; p. 260.
Hjelm, Alfred, Westby, Mont., assignor to Lock Pocket Garment Company, Minneapolis, Minn. Duplex pocket. No. 1,355,044; Oct. 5; v. 279; p. 118.
Hjorth, David, Bridgeport, Conn. Pull-socket. No. 1,360,218; Nov. 23; v. 280; p. 741.
Hjorth, Oscar B., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Speedometer-magnet drive. No. 1,335,833; Apr. 6; v. 273; p. 24.
Hladilek, Otto, Chicago, Ill. Centering-punches. No. 1,360,296; Nov. 30; v. 280; p. 825.
Hlasko, Vatslav A., New York, N. Y. Puzzle. No. 1,349,456; Aug. 10; v. 277; p. 310.
Hlavaty, Joe, Jr., Wallis, Tex. Sunken-ship indicator. No. 1,352,000; Sept. 7; v. 278; p. 57.
Hleb, Peter, Elizabeth, N. J., assignor to The Singer Manufacturing Company. Transmitter-guard for power-tables. No. 1,339,758; May 11; v. 274; p. 283.
Hmirak, John, New York, N. Y. Combination bayonet and wire-cutter. No. 1,342,382; June 1; v. 275; p. 149.

Digitized by Google

Hoadley, Alfred H., New York, N. Y. Ignition device. No. 1,338,625; Apr. 27; v. 273; p. 756.
Hoagland, Frank O., Bridgeport, Conn. Plug or thread gage. No. 1,350,311; Aug. 24; v. 277; p. 595.
Hoagland, Frank O., assignor to The Bilton Machine Tool Company, Bridgeport, Conn. Vise. No. 1,332,898; Mar. 2; v. 272; p. 48.
Hoard, Allen P., Taunton, Mass. Machine for beveling the edges of mounts and prints. No. 1,343,972; June 22; v. 275; p. 644.
Hobart, Franklin G., Beloit, Wis., assignor to Fairbanks, Morse & Company, Chicago, Ill. Oil-engine-feeding device. No. 1,337,770; Apr. 20; v. 273; p. 526.
Hobart, Franklin G., and C. B. Jahnke, Beloit, Wis., assignors to Fairbanks, Morse & Company, Chicago, Ill. Oil-engine. No. 1,337,771; Apr. 20; v. 273; p. 527.
Hobart, Henry M. (See Stone, C. W., and Hobart.)
Hobart, Henry M., Schenectady, N. Y., assignor to General Electric Company. Electric ship propulsion. No. 1,331,940; Feb. 24; v. 271; p. 607.
Hobart, Henry M., Schenectady, N. Y., assignor to General Electric Company. Electricity transforming and converting apparatus. No. 1,337,071; Apr. 13; v. 273; p. 820.
Hobbie, Edward H., Boonton, N. J., assignor to Saferlite Lens Company, Inc., New York, N. Y. Headlight. No. 1,341,128; May 25; v. 274; p. 671.
Hobbs, Clarence W., deceased, Worcester, Mass.; C. W. Hobbs, Jr., and S. T. Hobbs, administrators. Safety device. No. 1,345,442; July 6; v. 276; p. 22.
Hobbs, Clarence W., and E. A. Copeland, assignors to Hobbs Manufacturing Company, Worcester, Mass. Coin-controlled vending-machine. No. 1,348,876; Aug. 10; v. 277; p. 196.
Hobbs, Clarence W., Jr., *et al.*, administrators. (See Hobbs, Clarence W.)
Hobbs, Jared L., San Diego, Calif. Knockdown mold for cement products. No. 1,335,501; Mar. 30; v. 272; p. 846.
Hobbs Manufacturing Company. (See Hobbs, C. W., and Copeland, assignors.)
Hobbs, Samuel T., *et al.*, administrators. (See Hobbs, Clarence W.)
Hobbs Wall & Co. (See Burrows, Robert W., assignor.)
Hobbs, William I. (See Hudgins, Iverson D., assignor.)
Hobbs, Willis F., assignor to The Bridgeport Hardware Manufacturing Corporation, Bridgeport, Conn. Sheet-metal pliers. No. 1,332,726; Mar. 2; v. 272; p. 105.
Hoberg, Frank H., Green Bay, Wis. Locking device for cabinets. No. 1,342,961; June 8; v. 275; p. 317.
Hoberg, Fritz G., Woonsocket, R. I. Machine for automatically assembling wire heddles. No. 1,355,670; Oct. 12; v. 279; p. 292.
Hobert, Clayton, Philadelphia, Pa. Mattress. No. 1,356,148; Oct. 19; v. 279; p. 427.
Hoblitt, Frederic M., New York, N. Y. Vehicle-body. No. 1,349,959; Aug. 17; v. 277; p. 481.
Hobson, John S., assignor to Massey Concrete Products Company, Chicago, Ill. Foundation and housing for railway signal apparatus. No. 1,342,962; June 8; v. 275; p. 317.
Hobson & Motzer Co., The. (See Motzer, Alfred, assignor.)
Hobson, Oliver J., assignor of one-half to O. Q. Beckworth, Chicago, Ill. Tire-tread for pneumatic-tire casings and making and attaching same. No. 1,327,912; Jan. 13; v. 270; p. 254.
Hocevar, Josip, *et al.* (See Turk, Frank, assignor.)
Hochberger, John, Chicago, Ill. Gasket. No. 1,362,623; Dec. 21; v. 281; p. 424.
Hochriem, Gustav F. (See Paupa, J., and Hochriem.)
Hochstein, Luis B., Endicott, N. Y. Clasp. No. 1,345,183; June 29; v. 275; p. 945.
Hochstetter, Frederick W., assignor of one-half to W. I. Ohmer, Dayton, Ohio. Process and apparatus for making a translucent medium for use in the photographic arts. No. 1,345,184; June 29; v. 275; p. 945.
Hockaday, Frank W., Wichita, Kans. Highway-marker. No. 1,327,387; Jan. 6; v. 270; p. 94.
Hockenberry, James H., Winterset, Iowa. Door-fastening device. No. 1,359,702; Nov. 23; v. 280; p. 639.
Hockett, Albert G., Cheyenne, Wyo. Permutation-lock. No. 1,335,581; Mar. 30; v. 272; p. 860.
Hockett, Charles P., Vinita, Okla. Automobile-signal. No. 1,332,258; Mar. 2; v. 272; p. 15.
Hoddle, Charles, Westminster, London, assignor of one-half to Thorn & Hoddle Acetylene Company, Limited, Westminster, London, England. Work-holder. No. 1,336,229; Apr. 6; v. 273; p. 99.
Hodgdon, Herbert W., Pittsburgh, and Henry G. Giles, McCandless township, Allegheny county, Pa.; said Giles assignor to said Hodgdon. Portioning mechanism. No. 1,334,304; Mar. 23; v. 272; p. 560.
Hodge, George H., and J. C. Robinson, London, England. Steam baking-oven. No. 1,332,216; Mar. 2; v. 272; p. 7.
Hodge, George H., and J. C. Robinson, London, England. Baker's oven. No. 1,337,909; Apr. 20; v. 273; p. 558.
Hodge, George O., Bristol, Conn. Motor. No. 1,360,637; Nov. 30; v. 280; p. 892.
Hodge & Graves Company. (See Knights, George L., assignor.)
Hodge, Thomas D., Duluth, Minn. Roll-cooling means. No. 1,339,108; May 4; v. 274; p. 86.
Hodge, William B. (See Cramer, S. W., and Hodge.)
Hodges, Allan R., Chicago, Ill., assignor of one-half to C. A. McAllister, Memphis, Tenn. Feed-water heater for locomotive-boilers. No. 1,335,439; Mar. 30; v. 272; p. 834.
Hodges, Arthur O., Independence, Mo. Weighing attachment for refrigerators. No. 1,358,849; Nov. 16; v. 280; p. 428.
Hodges, Charles H., New York, N. Y., assignor to Consolidated Gas Company of New York. Automatic valve-regulator. No. 1,341,319; May 25; v. 274; p. 707.
Hodges, Chauncey W., Grand Rapids, Mich. Anti-skid device. No. 1,355,972; Oct. 19; v. 279; p. 392.
Hodges, Earl H., Killam, Alberta, Canada. Non-skid chain. No. 1,338,626; Apr. 27; v. 273; p. 756.
Hodges, Edward, Eastleigh, near Southampton, England. Repair of the axles of motor-vehicles. No. 1,346,202; July 13; v. 276; p. 233.
Hodges, Edward G., Marshalltown, Iowa. Carbureter. No. 1,330,024; Feb. 3; v. 271; p. 127.
Hodges, Edward G., Marshalltown, Iowa. Governor-controlled auxiliary air device for internal-combustion engines. No. 1,333,847; Mar. 16; v. 272; p. 428.
Hodges, Edward G., Marshalltown, Iowa. Speed-limiting device. No. 1,348,831; Aug. 3; v. 277; p. 184.
Hodges, Edward G., Marshalltown, Iowa. Air-control and heat-regulating device for internal-combustion engines. No. 1,351,477; Aug. 31; v. 277; p. 886.
Hodges, George E., Statesboro, Ga. Apparatus for gathering boll-weevils. No. 1,356,864; Oct. 26; v. 279; p. 614.
Hodges, John. (See Gordon, N. Y., and Hodges.)
Hodges, John B., Hulett, Wyo. Road-grader. No. 1,331,812; Feb. 24; v. 271; p. 583.
Hodges, Lewis E., Tarboro, N. C. Commutator. No. 1,351,648; Aug. 31; v. 277; p. 920.
Hodges, Ralph T. (See Stevens, Howard M., assignor.)
Hodgetts, Harold W., assignor to L. J. Harley, Jr., Springfield, Mass. Casket-handle. No. 1,342,443; June 8; v. 275; p. 215.
Hodgin, Joe E., *et al.* (See Stoltz, Otto W., assignor.)
Hodgins, James S. (See Powell, James F., assignor.)
Hodgkins, Albert A., Bridgeport, Conn. Shuttle-motion for two-bank looms. No. 1,348,417; Aug. 3; v. 277; p. 57.
Hodgkins, Charles H. (See Starker, C. W., and Hodgkins.)
Hodgkins, Charles H., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Controller. No. 1,354,191; Sept. 28; v. 278; p. 627.
Hodgkinson, Francis, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Co. Governing mechanism for compound engines. No. 1,337,176; Apr. 13; v. 273; p. 339.
Hodgkinson, Francis, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Elastic-fluid turbine. No. 1,345,674; July 6; v. 276; p. 68.
Hodgkinson, Francis, assignor to The Westinghouse Gear & Dynamometer Company, Edgewood, Pa. Reduction-gearing. No. 1,357,931; Nov. 2; v. 280; p. 139.
Hodgkinson, Francis, assignor to The Westinghouse Gear & Dynamometer Company, Edgewood, Pa. Reduction-gearing. No. 1,357,932; Nov. 2; v. 280; p. 140.
Hodgman, Willis K., Taunton, Mass. Apparatus for operating alarms or other devices. No. 1,328,994; Jan. 27; v. 270; p. 524.
Hodgman, Willis K., Taunton, Mass., assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Sheet-delivery mechanism. No. 1,332,665; Mar. 2; v. 272; p. 94.
Hodgman, Willis K., Taunton, Mass., assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Planographic printing-press. No. 1,348,006; July 27; v. 276; p. 707.
Hodgson, Carl W., Denver, Colo. Tunneling-machine. No. 1,353,908; Sept. 28; v. 278; p. 569.
Hodgson, John G., Maywood, Ill., assignor to American Can Company. Forming hermetic closures. No. 1,332,838; Mar. 2; v. 272; p. 127.
Hodgson, John G., Maywood, Ill., assignor to American Can Company, New York, N. Y. Container. No. 1,332,839; Mar. 2; v. 272; p. 127.
Hodgson, William, New York, N. Y. Fluid-temperature regulator. No. 1,337,701; Apr. 20; v. 273; p. 518.
Hodgson, William, New York, N. Y. Regulator. No. 1,338,080; Apr. 27; v. 273; p. 655.
Hodgson, William, New York, N. Y. Regulator. No. 1,338,081; Apr. 27; v. 273; p. 655.
Hodgson, William, New York, N. Y. Diaphragm for regulators. No. 1,361,727; Dec. 7; v. 281; p. 150.
Hodson, Frank S., Philadelphia, Pa. Metallic alloy. No. 1,335,284; Mar. 30; v. 272; p. 805.
Hoe, R., and Co. (See Busk, Anthony S., assignor.)
Hoe, R., and Co. (See Cruse, Amandus H., assignor.)
Hoe, R., and Co. (See Raabe, Otto L., assignor.)
Hoe, R., and Co. (See Reynolds, Howard, assignor.)
Hoe, R., and Co. (See Schmidt, Louis A., assignor.)
Hoe, R., and Co. (See Sheldon, Edward P., assignor.)

Digitized by Google

Alphabetical list of patentees—Continued.

Hoe, Robert, New York, N. Y. Sheet-feeding mechanism for printing-presses. No. 1,328,877; Jan. 27; v. 279; p. 502.
Hoecker, Albert C., Collinsville, Ill. Contractor-expander. No. 1,337,652; Apr. 20; v. 273; p. 508.
Hoefen, Walter V., Pittsburgh, Pa. Plow. No. 1,331,200; Feb. 17; v. 271; p. 447.
Hoefener, Edward W., Los Angeles, Calif. Traveling stool attachment for barbers' chairs. No. 1,352,409; Sept. 7; v. 278; p. 132.
Hoefer, Charles C. (See Sieben, H., and Haldeman, assignors.)
Hoeflich, Llewellyn A., Pleasantville, assignor of one-third to H. M. David, Atlantic City, N. J., and one-third to A. M. Oppenheimer, Pittsburgh, Pa. Securing device. No. 1,361,858; Dec. 14; v. 281; p. 223.
Hoeft, John F., Grand Island, Nebr. Eyeglass-rim. No. 1,356,449; Oct. 19; v. 279; p. 486.
Hoeglund, Herman, Hawley, Minn. Combination table and ironing-board. No. 1,342,109; June 1; v. 275; p. 98.
Hoehn, Charles A., Pittsburgh, Pa. Seat structure. No. 1,343,916; June 22; v. 275; p. 634.
Hoelscher, William G. (See Groene, W. F., and Hoelscher.)
Hoeltge, Fred W. (See Wildberg, H., and Hoeltge.)
Hoenig, Harry E., assignor of one-half to J. T. Smith, East Liverpool, Ohio. Fastening device. No. 1,354,396; Sept. 28; v. 278; p. 668.
Hoepner, George, Chicago, Ill. Machine for mixing powdered or granular materials. No. 1,349,960; Aug. 17; v. 277; p. 481.
Hoerger, John J., New York, N. Y., assignor to Troy Laundry Machinery Company, Ltd., Chicago, Ill. Dry-cleaning machine. No. 1,335,502; Mar. 30; v. 272; p. 846.
Hoerle, Christian G. (See Bryant and Hoerle.)
Hoerle, Christian K., Waterbury, Conn. Ball-bearing. No. 1,359,506; Nov. 23; v. 280; p. 600.
Hoerner, Frank, Los Angeles, Calif. Adjustable valve-seat facer. No. 1,349,153; Aug. 10; v. 277; p. 251.
Hoesel, Harry T., Elmhurst, N. Y., assignor to August Mietz Corporation, New York, N. Y. Controlling mechanism for internal-combustion engines. No. 1,354,748; Oct. 5; v. 279; p. 60.
Hoesing, Louis, Crofton, Nebr. Attachment for hay-sweeps. No. 1,340,391; May 18; v. 274; p. 460.
Hoey, Nicholas I., Wilmore, Ky. Railway switch-lamp. No. 1,335,503; Mar. 30; v. 272; p. 846.
Hofen, Simon E., Dacoma, assignor of one-half to J. R. Barter, Hopeton, Okla. Two-row lister. No. 1,333,312; Mar. 9; v. 272; p. 267.
Hofer, Joseph L., Bridgewater, S. D. Steering-gear. No. 1,327,616; Jan. 13; v. 270; p. 199.
Hoff, Earl B., assignor to Electric Vacuum Cleaner Company, Inc., East Cleveland, Ohio. Washing-machine. No. 1,334,096; Mar. 16; v. 272; p. 475.
Hoff, Earl B., Cleveland, Ohio, assignor to Electric Vacuum Cleaner Company, Inc. Washing-machine. No. 1,334,097; Mar. 16; v. 272; p. 476.
Hoff, John A., assignor to Pure Carbonic Company, Chicago, Ill. Gas-valve. No. 1,361,059; Dec. 7; v. 281; p. 16.
Hoff, Joseph M., Dorchester, Wis. Film-developing machine. No. 1,363,117; Dec. 21; v. 281; p. 520.
Hoff, Leslie D., Newark, N. J. Combination slitter and perforator. No. 1,351,751; Sept. 7; v. 278; p. 7.
Hoff, Olaf C. (See Johannessen, J. E., Sether, Hoff, and Christiansen.)
Hoffay, Jose, South Kensington, London, England. Gramophone, phonograph, and the like. No. 1,326,932; Jan. 6; v. 270; p. 10.
Hoffay, Joseph, New York, N. Y. Phonograph-control. No. 1,349,763; Aug. 17; v. 277; p. 444.
Hoffer, Ivan L., Marcus, Wash. Puzzle. No. 1,351,384; Aug. 31; v. 277; p. 868.
Hoffine, Fred G., Kansas City, Mo. Vibrator. No. 1,352,894; Sept. 14; v. 278; p. 266.
Hoffine, Fred G., Kansas City, Mo. Fan and guard coupling. No. 1,355,145; Oct. 12; v. 279; p. 190.
Hoffman, Andrew, Mfg. Co. (See Sebastian, Alphonse A., assignor.)
Hoffman, Arthur H., Ames, Iowa. Charging storage batteries. No. 1,362,794; Dec. 21; v. 281; p. 458.
Hoffman, Aubrey F., Longford, Kans. Radiator-cover. No. 1,352,968; Sept. 14; v. 278; p. 279.
Hoffman, Charles M., and J. Thomisser, Chicago, Ill. Automotive vestibule-curtain holder. No. 1,348,114; July 27; v. 276; p. 729.
Hoffman, Daniel E., Plymouth, Ohio. Sieve for threshing-machines. No. 1,327,325; Jan. 6; v. 270; p. 83.
Hoffman, Daniel E., Plymouth, Ohio. Adjustable sieve for separators. No. 1,339,560; May 11; v. 274; p. 245.
Hoffman, Edgar J., Akron, Ohio. Hanger. No. 1,352,895; Sept. 14; v. 278; p. 266.
Hoffman, Edwin A., and T. P. Him, Wilkes-Barre, Pa. Rail-bond for electric railways. No. 1,353,237; Sept. 21; v. 278; p. 392.
Hoffman, George A., Chicago, Ill. Envelop. No. 1,344,394; June 22; v. 275; p. 727.
Hoffman, George D., Pasadena, Calif., assignor to Hoffman Specialty Company, Chicago, Ill. Steam-trap for radiators. No. 1,351,037; Aug. 31; v. 277; p. 799.
Hoffman, George D., Pasadena, Calif., assignor to Hoffman Specialty Company, Chicago, Ill. Thermo-valve. No. 1,352,808; Sept. 14; v. 278; p. 249.
Hoffman, Gordon S., Buntingville, Calif. Telephone-exchange system. No. 1,334,755; Mar. 23; v. 272; p. 645.
Hoffman, Gustav, Chicago, Ill. Type-holder. No. 1,343,917; June 22; v. 275; p. 634.
Hoffman, Harry and L., Philadelphia, Pa. Water connection for automobiles. No. 1,337,227; Apr. 20; v. 273; p. 428.
Hoffman, Harry and L., Philadelphia, Pa. Water connection for automobiles. No. 1,337,228; Apr. 20; v. 273; p. 428.
Hoffman, Harry and L., Philadelphia, Pa. Seepage-intercepting cowl for motor-vehicles. No. 1,334,372; Mar. 23; v. 272; p. 573.
Hoffman, Harry M. (See Garrett, W. B., and Hoffman.)
Hoffman, Henry, East Rutherford, N. J. Display-form. No. 1,351,516; Aug. 31; v. 277; p. 894.
Hoffman, Homer M., assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Polishing-block. No. 1,332,896; Mar. 9; v. 272; p. 189.
Hoffman, John F., Rochester, N. Y. Refrigerating apparatus. No. 1,350,550; Aug. 24; v. 277; p. 643.
Hoffman, John N., Forest Grove, Oreg. Automobile-dimmer shade. No. 1,362,866; Dec. 21; v. 281; p. 472.
Hoffman, Joseph K., *et al.* (See Barnhart, Clarence V., assignor.)
Hoffman, Joseph M., Brooklyn, N. Y. Spark-plug. No. 1,361,462; Dec. 7; v. 281; p. 98.
Hoffman, Kenneth T., Mount Vernon, Ill. Stop. No. 1,355,337; Oct. 12; v. 279; p. 229.
Hoffman, Louis. (See Hoffman, Harry and L.)
Hoffman, Louis F., and W. J. Unkel, Kinder, La. Steam-boiler. No. 1,327,159; Jan. 6; v. 270; p. 52.
Hoffman, Marguerite, and P. Jopling, deceased; L. Zerba, administratrix, Rock Island, Ill. Drill. No. 1,331,458; Feb. 17; v. 271; p. 495.
Hoffman, Otto P., Chicago, Ill. Battery-plate. No. 1,341,713; June 1; v. 275; p. 19.
Hoffman, Peter A., Hastings, Minn. Folding box. No. 1,339,339; May 4; v. 274; p. 127.
Hoffman Products Corporation. (See Hoffman, William M., assignor.)
Hoffman, Ray, Newport, Ky., assignor to National Marking Machine Company, Cincinnati, Ohio. Laundry-marking clip. No. 1,349,570; Aug. 17; v. 277; p. 406.
Hoffman, Reuben F., Hamilton, Ohio. Automatic gas-regulator. No. 1,358,953; Nov. 16; v. 280; p. 449.
Hoffman, Ronald F. (See Hancock, F. R., and Hoffman.)
Hoffman, Roscoe C., Indianapolis, Ind. Disk wheel and hub for vehicles. No. 1,341,465; May 25; v. 274; p. 737.
Hoffman, Roscoe C., Indianapolis, Ind. Disk-wheel construction. No. 1,358,850; Nov. 16; v. 280; p. 429.
Hoffman, Roscoe C., Argos, Ind. Disk wheel. No. 1,353,161; Sept. 21; v. 278; p. 377.
Hoffman, Rudolph, Kankakee, assignor to Sears, Roebuck and Co., Chicago, Ill. Oil-burner. No. 1,343,673; June 15; v. 275; p. 521.
Hoffman, Rudolph, Kankakee, assignors to Sears, Roebuck and Company, Chicago, Ill. Oil-stove. No. 1,345,775; July 6; v. 276; p. 88.
Hoffman, Samuel. (See Morgen, S., and Hoffman.)
Hoffman, Samuel O., assignor of one-third to Albert Abrams, San Francisco, Calif. Method of and apparatus for detecting and observing objects in the dark. No. 1,343,398; June 15; v. 275; p. 465.
Hoffman Specialty Company. (See Hoffman, George D., assignor.)
Hoffman, William A., Dayton, Ohio. Air blower and distributer. No. 1,339,510; May 11; v. 274; p. 236.
Hoffman, William M., assignor to Hoffman Products Corporation, Buffalo, N. Y. Oil-burner. No. 1,335,166; Mar. 30; v. 272; p. 784.
Hoffman, William M., assignor to Hoffman Products Corporation, Buffalo, N. Y. Apparatus for operating and controlling fuel-oil burners. No. 1,341,642; June 1; v. 275; p. 5.
Hoffman, William M., assignor to Hoffman Products Corporation, Buffalo, N. Y. Fuel-oil burner. No. 1,341,643; June 1; v. 275; p. 5.
Hoffman, William M., assignor to Hoffman Products Corporation, Buffalo, N. Y. Fuel-oil burner. No. 1,341,644; June 1; v. 275; p. 6.
Hoffmann, Frank F., Los Angeles, Calif. Direction-indicator. No. 1,327,605; Jan. 6; v. 270; p. 135.
Hoffmann, Fredrick, Louisville, Ky. Mattress. No. 1,335,965; Apr. 6; v. 273; p. 50.
Hoffmann-La Roche Chemical Works, The. (See Court, Georges T., assignor.)
Hoffmann-La Roche Chemical Works, The. (See Müller, Emil, assignor.)
Hoffmann, Michael, assignor of one-half to F. R. Kluczny, Ivanhoe, Minn. Spark-plug. No. 1,344,892; June 29; v. 275; p. 889.
Hoffmann, Philip C., assignor to Virginia-Carolina Chemical Company, Richmond, Va. Fertilizer and making same. No. 1,360,401; Nov. 30; v. 280; p. 845.

Digitized by Google

Hoadley, Alfred H., New York, N. Y. Ignition device. No. 1,338,625; Apr. 27; v. 273; p. 756.
Hoagland, Frank O., Bridgeport, Conn. Plug or thread gage. No. 1,350,311; Aug. 24; v. 277; p. 595.
Hoagland, Frank O., assignor to The Bilton Machine Tool Company, Bridgeport, Conn. Vise. No. 1,332,898; Mar. 2; v. 272; p. 48.
Hoard, Allen P., Taunton, Mass. Machine for beveling the edges of mounts and prints. No. 1,343,972; June 22; v. 275; p. 644.
Hobart, Franklin G., Beloit, Wis., assignor to Fairbanks, Morse & Company, Chicago, Ill. Oil-engine-feeding device. No. 1,337,770; Apr. 20; v. 273; p. 526.
Hobart, Franklin G., and C. B. Jahnke, Beloit, Wis., assignors to Fairbanks, Morse & Company, Chicago, Ill. Oil-engine. No. 1,337,771; Apr. 20; v. 273; p. 527.
Hobart, Henry M. (See Stone, C. W., and Hobart.)
Hobart, Henry M., Schenectady, N. Y., assignor to General Electric Company. Electric ship propulsion. No. 1,331,940; Feb. 24; v. 271; p. 607.
Hobart, Henry M., Schenectady, N. Y., assignor to General Electric Company. Electricity transforming and converting apparatus. No. 1,337,071; Apr. 13; v. 273; p. 320.
Hobbie, Edward H., Boonton, N. J., assignor to Saferlite Lens Company, Inc., New York, N. Y. Headlight. No. 1,341,128; May 25; v. 274; p. 671.
Hobbs, Clarence W., deceased, Worcester, Mass.; C. W. Hobbs, Jr., and S. T. Hobbs, administrators. Safety device. No. 1,345,442; July 6; v. 276; p. 22.
Hobbs, Clarence W., and E. A. Copeland, assignors to Hobbs Manufacturing Company, Worcester, Mass. Coin-controlled vending-machine. No. 1,348,876; Aug. 10; v. 277; p. 196.
Hobbs, Clarence W., Jr., *et al.*, administrators. (See Hobbs, Clarence W.)
Hobbs, Jared L., San Diego, Calif. Knockdown mold for cement products. No. 1,335,501; Mar. 30; v. 272; p. 846.
Hobbs Manufacturing Company. (See Hobbs, C. W., and Copeland, assignors.)
Hobbs, Samuel T., *et al.*, administrators. (See Hobbs, Clarence W.)
Hobbs Wall & Co. (See Burrows, Robert W., assignor.)
Hobbs, William I. (See Hudgins, Iverson D., assignor.)
Hobbs, Willis F., assignor to The Bridgeport Hardware Manufacturing Corporation, Bridgeport, Conn. Sheet-metal pliers. No. 1,332,726; Mar. 2; v. 272; p. 105.
Hoberg, Frank H., Green Bay, Wis. Locking device for cabinets. No. 1,342,961; June 8; v. 275; p. 317.
Hoberg, Fritz G., Woonsocket, R. I. Machine for automatically assembling wire heddles. No. 1,355,670; Oct. 12; v. 279; p. 292.
Hobert, Clayton, Philadelphia, Pa. Mattress. No. 1,356,148; Oct. 19; v. 279; p. 427.
Hoblitt, Frederic M., New York, N. Y. Vehicle-body. No. 1,349,959; Aug. 17; v. 277; p. 481.
Hobson, John S., assignor to Massey Concrete Products Company, Chicago, Ill. Foundation and housing for railway signal apparatus. No. 1,342,962; June 8; v. 275; p. 317.
Hobson & Motzer Co., The. (See Motzer, Alfred, assignor.)
Hobson, Oliver J., assignor of one-half to O. Q. Beckworth, Chicago, Ill. Tire-tread for pneumatic-tire castings and making and attaching same. No. 1,327,912; Jan. 13; v. 270; p. 254.
Hocevar, Josip, *et al.* (See Turk, Frank, assignor.)
Hochberger, John, Chicago, Ill. Gasket. No. 1,362,623; Dec. 21; v. 281; p. 424.
Hochriem, Gustav F. (See Paupa, J., and Hochriem.)
Hochstein, Luis B., Endicott, N. Y. Clasp. No. 1,345,183; June 29; v. 275; p. 945.
Hochstetter, Frederick W., assignor of one-half to W. I. Ohmer, Dayton, Ohio. Process and apparatus for making a translucent medium for use in the photographic arts. No. 1,345,184; June 29; v. 275; p. 945.
Hockaday, Frank W., Wichita, Kans. Highway-marker. No. 1,327,387; Jan. 6; v. 270; p. 94.
Hockenberry, James H., Winterset, Iowa. Door-fastening device. No. 1,359,702; Nov. 23; v. 280; p. 639.
Hockett, Albert G., Cheyenne, Wyo. Permutation-lock. No. 1,335,581; Mar. 30; v. 272; p. 860.
Hockett, Charles P., Vinita, Okla. Automobile-signal. No. 1,332,258; Mar. 2; v. 272; p. 15.
Hoddle, Charles, Westminster, London, assignor of one-half to Thorn & Hoddle Acetylene Company, Limited, Westminster, London, England. Work-holder. No. 1,336,229; Apr. 6; v. 273; p. 99.
Hodgdon, Herbert W., Pittsburgh, and Henry G. Giles, McCandless township, Allegheny county, Pa.; said Giles assignor to said Hodgdon. Portioning mechanism. No. 1,334,304; Mar. 23; v. 272; p. 560.
Hodge, George H., and J. C. Robinson, London, England. Steam baking-oven. No. 1,332,216; Mar. 2; v. 272; p. 7.
Hodge, George H., and J. C. Robinson, London, England. Baker's oven. No. 1,337,909; Apr. 20; v. 273; p. 553.
Hodge, George O., Bristol, Conn. Motor. No. 1,360,637; Nov. 30; v. 280; p. 892.
Hodge & Graves Company. (See Knights, George L., assignor.)
Hodge, Thomas D., Duluth, Minn. Roll-cooling means. No. 1,339,108; May 4; v. 274; p. 86.
Hodge, William B. (See Cramer, S. W., and Hodge.)
Hodges, Allan R., Chicago, Ill., assignor of one-half to C. A. McAllister, Memphis, Tenn. Feed-water heater for locomotive-boilers. No. 1,335,439; Mar. 30; v. 272; p. 834.
Hodges, Arthur O., Independence, Mo. Weighing attachment for refrigerators. No. 1,358,849; Nov. 16; v. 280; p. 428.
Hodges, Charles H., New York, N. Y., assignor to Consolidated Gas Company of New York. Automatic valve-regulator. No. 1,341,319; May 25; v. 274; p. 707.
Hodges, Chauncey W., Grand Rapids, Mich. Anti-skid device. No. 1,355,972; Oct. 19; v. 279; p. 392.
Hodges, Earl H., Killam, Alberta, Canada. Non-skid chain. No. 1,338,626; Apr. 27; v. 273; p. 756.
Hodges, Edward, Eastleigh, near Southampton, England. Repair of the axles of motor-vehicles. No. 1,346,202; July 13; v. 276; p. 233.
Hodges, Edward G., Marshalltown, Iowa. Carbureter. No. 1,330,024; Feb. 3; v. 271; p. 127.
Hodges, Edward G., Marshalltown, Iowa. Governor-controlled auxiliary air device for internal-combustion engines. No. 1,333,847; Mar. 16; v. 272; p. 428.
Hodges, Edward G., Marshalltown, Iowa. Speed-limiting device. No. 1,348,831; Aug. 3; v. 277; p. 134.
Hodges, Edward G., Marshalltown, Iowa. Air-control and heat-regulating device for internal-combustion engines. No. 1,351,477; Aug. 31; v. 277; p. 886.
Hodges, George E., Statesboro, Ga. Apparatus for gathering boll-weevils. No. 1,356,864; Oct. 26; v. 279; p. 614.
Hodges, John. (See Gordon, N. Y., and Hodges.)
Hodges, John B., Hulett, Wyo. Road-grader. No. 1,331,812; Feb. 24; v. 271; p. 583.
Hodges, Lewis E., Tarboro, N. C. Commutator. No. 1,351,648; Aug. 31; v. 277; p. 920.
Hodges, Ralph T. (See Stevens, Howard M., assignor.)
Hodgetts, Harold W., assignor to L. J. Harley, Jr., Springfield, Mass. Casket-handle. No. 1,342,443; June 8; v. 275; p. 215.
Hodgin, Joe E., *et al.* (See Stoltz, Otto W., assignor.)
Hodgins, James S. (See Powell, James F., assignor.)
Hodgkins, Albert A., Bridgeport, Conn. Shuttle-motion for two-bank looms. No. 1,348,417; Aug. 3; v. 277; p. 57.
Hodgkins, Charles H. (See Starker, C. W., and Hodgkins.)
Hodgkins, Charles H., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Controller. No. 1,354,191; Sept. 28; v. 278; p. 627.
Hodgkinson, Francis, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Co. Governing mechanism for compound engines. No. 1,337,176; Apr. 13; v. 273; p. 339.
Hodgkinson, Francis, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Elastic-fluid turbine. No. 1,345,674; July 6; v. 276; p. 68.
Hodgkinson, Francis, assignor to The Westinghouse Gear & Dynamometer Company, Edgewood, Pa. Reduction-gearing. No. 1,357,931; Nov. 2; v. 280; p. 139.
Hodgkinson, Francis, assignor to The Westinghouse Gear & Dynamometer Company, Edgewood, Pa. Reduction-gearing. No. 1,357,932; Nov. 2; v. 280; p. 140.
Hodgman, Willis K., Taunton, Mass. Apparatus for operating alarms or other devices. No. 1,328,994; Jan. 27; v. 270; p. 524.
Hodgman, Willis K., Taunton, Mass., assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Sheet-delivery mechanism. No. 1,332,665; Mar. 2; v. 272; p. 94.
Hodgman, Willis K., Taunton, Mass., assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Planographic printing-press. No. 1,348,006; July 27; v. 276; p. 707.
Hodgson, Carl W., Denver, Colo. Tunneling-machine. No. 1,353,908; Sept. 28; v. 278; p. 569.
Hodgson, John G., Maywood, Ill., assignor to American Can Company. Forming hermetic closures. No. 1,332,838; Mar. 2; v. 272; p. 127.
Hodgson, John G., Maywood, Ill., assignor to American Can Company, New York, N. Y. Container. No. 1,332,839; Mar. 2; v. 272; p. 127.
Hodgson, William, New York, N. Y. Fluid-temperature regulator. No. 1,337,701; Apr. 20; v. 273; p. 518.
Hodgson, William, New York, N. Y. Regulator. No. 1,338,080; Apr. 27; v. 273; p. 655.
Hodgson, William, New York, N. Y. Regulator. No. 1,338,081; Apr. 27; v. 273; p. 655.
Hodgson, William, New York, N. Y. Diaphragm for regulators. No. 1,361,727; Dec. 7; v. 281; p. 150.
Hodson, Frank S., Philadelphia, Pa. Metallic alloy. No. 1,335,284; Mar. 30; v. 272; p. 805.
Hoe, R., and Co. (See Busk, Anthony S., assignor.)
Hoe, R., and Co. (See Cruse, Amandus H., assignor.)
Hoe, R., and Co. (See Raabe, Otto L., assignor.)
Hoe, R., and Co. (See Reynolds, Howard, assignor.)
Hoe, R., and Co. (See Schmidt, Louis A., assignor.)
Hoe, R., and Co. (See Sheldon, Edward P., assignor.)

Digitized by Google

Hoe, Robert, New York, N. Y. Sheet-feeding mechanism for printing-presses. No. 1,328,877; Jan. 27; v. 270; p. 502.

Hoecker, Albert C., Collinsville, Ill. Contractor-expander. No. 1,337,652; Apr. 20; v. 273; p. 503.

Hoefen, Walter V., Pittsburgh, Pa. Plow. No. 1,331,200; Feb. 17; v. 271; p. 447.

Hoefener, Edward W., Los Angeles, Calif. Traveling stool attachment for barbers' chairs. No. 1,352,409; Sept. 7; v. 278; p. 132.

Hoefer, Charles C. (See Sieben, H., and Haldeman, assignors.)

Hoelich, Llewellyn A., Pleasantville, assignor of one-third to H. M. David, Atlantic City, N. J., and one-third to A. M. Oppenheimer, Pittsburgh, Pa. Securing device. No. 1,361,858; Dec. 14; v. 281; p. 223.

Hoeft, John F., Grand Island, Nebr. Eyeglass-rim. No. 1,356,449; Oct. 19; v. 279; p. 486.

Hoeglund, Herman, Hawley, Minn. Combination table and ironing-board. No. 1,342,109; June 1; v. 275; p. 98.

Hoehn, Charles A., Pittsburgh, Pa. Seat structure. No. 1,343,916; June 22; v. 275; p. 634.

Hoelscher, William G. (See Groene, W. F., and Hoelscher.)

Hoeltge, Fred W. (See Wildberg, H., and Hoeltge.)

Hoenig, Harry E., assignor of one-half to J. T. Smith, East Liverpool, Ohio. Fastening device. No. 1,354,396; Sept. 28; v. 278; p. 668.

Hoepner, George, Chicago, Ill. Machine for mixing powdered or granular materials. No. 1,349,960; Aug. 17; v. 277; p. 481.

Hoerger, John J., New York, N. Y., assignor to Troy Laundry Machinery Company, Ltd., Chicago, Ill. Dry-cleaning machine. No. 1,335,502; Mar. 30; v. 272; p. 846.

Hoerle, Christian G. (See Bryant and Hoerle.)

Hoerle, Christian K., Waterbury, Conn. Ball-bearing. No. 1,359,506; Nov. 23; v. 280; p. 600.

Hoerner, Frank, Los Angeles, Calif. Adjustable valve-seat facer. No. 1,349,153; Aug. 10; v. 277; p. 251.

Hoesel, Harry T., Elmhurst, N. Y., assignor to August Mietz Corporation, New York, N. Y. Controlling mechanism for internal-combustion engines. No. 1,354,748; Oct. 5; v. 279; p. 60.

Hoesing, Louis, Crofton, Nebr. Attachment for hay-sweeps. No. 1,340,391; May 18; v. 274; p. 460.

Hoey, Nicholas I., Wilmore, Ky. Railway switch-lamp. No. 1,335,503; Mar. 30; v. 272; p. 846.

Hofen, Simon E., Dacoma, assignor of one-half to J. R. Baxter, Hopeton, Okla. Two-row lister. No. 1,333,312; Mar. 9; v. 272; p. 267.

Hofer, Joseph L., Bridgewater, S. D. Steering-gear. No. 1,327,616; Jan. 13; v. 270; p. 199.

Hoff, Earl B., assignor to Electric Vacuum Cleaner Company, Inc., East Cleveland, Ohio. Washing-machine. No. 1,334,096; Mar. 16; v. 272; p. 475.

Hoff, Earl B., Cleveland, Ohio, assignor to Electric Vacuum Cleaner Company, Inc. Washing-machine. No. 1,334,097; Mar. 16; v. 272; p. 476.

Hoff, John A., assignor to Pure Carbonic Company, Chicago, Ill. Gas-valve. No. 1,361,059; Dec. 7; v. 281; p. 16.

Hoff, Joseph M., Dorchester, Wis. Film-developing machine. No. 1,363,117; Dec. 21; v. 281; p. 520.

Hoff, Leslie D., Newark, N. J. Combination slitter and perforator. No. 1,351,751; Sept. 7; v. 278; p. 7.

Hoff, Olaf C. (See Johannessen, J. E., Sether, Hoff, and Christiansen.)

Hoffay, Jose, South Kensington, London, England. Gramophone, phonograph, and the like. No. 1,326,932; Jan. 6; v. 270; p. 10.

Hoffay, Joseph, New York, N. Y. Phonograph-control. No. 1,349,763; Aug. 17; v. 277; p. 444.

Hoffer, Ivan L., Marcus, Wash. Puzzle. No. 1,351,384; Aug. 31; v. 277; p. 868.

Hoffine, Fred G., Kansas City, Mo. Vibrator. No. 1,352,894; Sept. 14; v. 278; p. 266.

Hoffine, Fred G., Kansas City, Mo. Fan and guard coupling. No. 1,355,145; Oct. 12; v. 279; p. 190.

Hoffman, Andrew, Mfg. Co. (See Sebastian, Alphonse A., assignor.)

Hoffman, Arthur H., Ames, Iowa. Charging storage batteries. No. 1,362,794; Dec. 21; v. 281; p. 458.

Hoffman, Aubrey F., Longford, Kans. Radiator-cover. No. 1,352,968; Sept. 14; v. 278; p. 279.

Hoffman, Charles M., and J. Thomisser, Chicago, Ill. Automotive vestibule-curtain holder. No. 1,348,114; July 27; v. 276; p. 729.

Hoffman, Daniel E., Plymouth, Ohio. Sieve for threshing-machines. No. 1,327,325; Jan. 6; v. 270; p. 83.

Hoffman, Daniel E., Plymouth, Ohio. Adjustable sieve for separators. No. 1,339,560; May 11; v. 274; p. 245.

Hoffman, Edgar J., Akron, Ohio. Hanger. No. 1,352,895; Sept. 14; v. 278; p. 266.

Hoffman, Edwin A., and T. P. Him, Wilkes-Barre, Pa. Rail-bond for electric railways. No. 1,353,237; Sept. 21; v. 278; p. 392.

Hoffman, George A., Chicago, Ill. Envelop. No. 1,344,394; June 22; v. 275; p. 727.

Hoffman, George D., Pasadena, Calif., assignor to Hoffman Specialty Company, Chicago, Ill. Steam-trap for radiators. No. 1,351,037; Aug. 31; v. 277; p. 799.

Hoffman, George D., Pasadena, Calif., assignor to Hoffman Specialty Company, Chicago, Ill. Thermo-valve. No. 1,352,808; Sept. 14; v. 278; p. 249.

Hoffman, Gordon S., Buntingville, Calif. Telephone-exchange system. No. 1,334,755; Mar. 23; v. 272; p. 645.

Hoffman, Gustav, Chicago, Ill. Type-holder. No. 1,343,917; June 22; v. 275; p. 634.

Hoffman, Harry and L., Philadelphia, Pa. Water connection for automobiles. No. 1,337,227; Apr. 20; v. 273; p. 423.

Hoffman, Harry and L., Philadelphia, Pa. Water connection for automobiles. No. 1,337,228; Apr. 20; v. 273; p. 423.

Hoffman, Harry and L., Philadelphia, Pa. Seepage-intercepting cowl for motor-vehicles. No. 1,334,372; Mar. 23; v. 272; p. 573.

Hoffman, Harry M. (See Garrett, W. B., and Hoffman.)

Hoffman, Henry, East Rutherford, N. J. Display-form. No. 1,351,516; Aug. 31; v. 277; p. 894.

Hoffman, Homer M., assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Polishing-block. No. 1,332,896; Mar. 9; v. 272; p. 189.

Hoffman, John F., Rochester, N. Y. Refrigerating apparatus. No. 1,350,550; Aug. 24; v. 277; p. 643.

Hoffman, John N., Forest Grove, Oreg. Automobile-dimmer shade. No. 1,362,866; Dec. 21; v. 281; p. 472.

Hoffman, Joseph K., *et al.* (See Barnhart, Clarence V., assignor.)

Hoffman, Joseph M., Brooklyn, N. Y. Spark-plug. No. 1,361,462; Dec. 7; v. 281; p. 98.

Hoffman, Kenneth T., Mount Vernon, Ill. Stop. No. 1,355,337; Oct. 12; v. 279; p. 229.

Hoffman, Louis. (See Hoffman, Harry and L.)

Hoffman, Louis F., and W. J. Unkel, Kinder, La. Steam-boiler. No. 1,327,159; Jan. 6; v. 270; p. 52.

Hoffman, Marguerite, and P. Jopling, deceased; L. Zerba, administratrix, Rock Island, Ill. Drill. No. 1,331,458; Feb. 17; v. 271; p. 495.

Hoffman, Otto P., Chicago, Ill. Battery-plate. No. 1,341,713; June 1; v. 275; p. 19.

Hoffman, Peter A., Hastings, Minn. Folding box. No. 1,339,339; May 4; v. 274; p. 127.

Hoffman Products Corporation. (See Hoffman, William M., assignor.)

Hoffman, Ray, Newport, Ky., assignor to National Marking Machine Company, Cincinnati, Ohio. Laundry-marking clip. No. 1,349,570; Aug. 17; v. 277; p. 406.

Hoffman, Reuben F., Hamilton, Ohio. Automatic gas-regulator. No. 1,358,953; Nov. 16; v. 280; p. 449.

Hoffman, Ronald F. (See Hancock, F. R., and Hoffman.)

Hoffman, Roscoe C., Indianapolis, Ind. Disk wheel and hub for vehicles. No. 1,341,465; May 25; v. 274; p. 737.

Hoffman, Roscoe C., Indianapolis, Ind. Disk-wheel construction. No. 1,358,850; Nov. 16; v. 280; p. 420.

Hoffman, Roscoe C., Argos, Ind. Disk wheel. No. 1,353,161; Sept. 21; v. 278; p. 377.

Hoffman, Rudolph, Kankakee, assignor to Sears, Roebuck and Co., Chicago, Ill. Oil-burner. No. 1,343,673; June 15; v. 275; p. 521.

Hoffman, Rudolph, Kankakee, assignors to Sears, Roebuck and Company, Chicago, Ill. Oil-stove. No. 1,345,775; July 6; v. 276; p. 88.

Hoffman, Samuel. (See Morgen, S., and Hoffman.)

Hoffman, Samuel O., assignor of one-third to Albert Abrams, San Francisco, Calif. Method of and apparatus for detecting and observing objects in the dark. No. 1,343,393; June 15; v. 275; p. 465.

Hoffman Specialty Company. (See Hoffman, George D., assignor.)

Hoffman, William A., Dayton, Ohio. Air blower and distributer. No. 1,339,510; May 11; v. 274; p. 236.

Hoffman, William M., assignor to Hoffman Products Corporation, Buffalo, N. Y. Oil-burner. No. 1,335,166; Mar. 30; v. 272; p. 784.

Hoffman, William M., assignor to Hoffman Products Corporation, Buffalo, N. Y. Apparatus for operating and controlling fuel-oil burners. No. 1,341,642; June 1; v. 275; p. 5.

Hoffman, William M., assignor to Hoffman Products Corporation, Buffalo, N. Y. Fuel-oil burner. No. 1,341,643; June 1; v. 275; p. 5.

Hoffman, William M., assignor to Hoffman Products Corporation, Buffalo, N. Y. Fuel-oil burner. No. 1,341,644; June 1; v. 275; p. 6.

Hoffmann, Frank F., Los Angeles, Calif. Direction-indicator. No. 1,327,605; Jan. 6; v. 270; p. 135.

Hoffmann, Fredrick, Louisville, Ky. Mattress. No. 1,335,965; Apr. 6; v. 273; p. 50.

Hoffmann-La Roche Chemical Works, The. (See Court, Georges T., assignor.)

Hoffmann-La Roche Chemical Works, The. (See Müller, Emil, assignor.)

Hoffmann, Michael, assignor of one-half to F. R. Kluczny, Ivanhoe, Minn. Spark-plug. No. 1,344,892; June 29; v. 275; p. 889.

Hoffmann, Philip C., assignor to Virginia-Carolina Chemical Company, Richmond, Va. Fertilizer and making same. No. 1,360,401; Nov. 30; v. 280; p. 845.

Digitized by Google

Hoffmann, Philip C., assignor to The Virginia-Carolina Chemical Company, Richmond, Va. Fertilizer and making same. No. 1,360,402; Nov. 30; v. 280; p. 845.
Hoffmann, William R., New York, N. Y. Safety instrument-holder. No. 1,348,718; Aug. 3; v. 277; p. 113.
Hoffner, George, Pittsburgh, Pa. Drinking-fountain. No. 1,332,554; Mar. 2; v. 272; p. 73.
Hoffstetter, Frank B., Warren, and F. J. Rippl, Cleveland, Ohio, assignors to General Electric Company. Automatic glass-blowing machine. No. 1,330,707; Feb. 10; v. 271; p. 286.
Hofman, John R., and C. Laughlin, Berkeley, Calif., assignors, by mesne assignments, to Ansco Company, Binghamton, N. Y. Exposure-identification attachment for cameras. No. 1,363,414; Dec. 28; v. 281; p. 617.
Hofman, Josef, Baumaroche, Switzerland. Pneumatic shock-absorber. No. 1,354,482; Oct. 5; v. 279; p. 7.
Hofmann, Alfred, Zurich, Switzerland. Automatic apparatus for lubricating railway and tramway track wheels and rails. No. 1,329,406; Feb. 3; v. 271; p. 11.
Hofmann, Alfred, Zurich, Switzerland. Washing-machine. No. 1,340,543; May 18; v. 274; p. 488.
Hofmann, Alfred, Zurich, Switzerland. Apparatus for drying goods in layers. No. 1,344,893; June 29; v. 275; p. 889.
Hofmann, George, assignor to Hofmann-Morgan Rubber Company, Chicago, Ill. Pneumatic tire. No. 1,347,950; July 27; v. 276; p. 695.
Hofmann, George W., and W. R. Muray, assignors to Standard Separator Company, Milwaukee, Wis. Yielding upper bearing for centrifugal separators. No. 1,353,958; Sept. 28; v. 278; p. 579.
Hofmann, Julius, assignor to Hope Webbing Company, Providence, R. I. Merchandise-package. No. 1,345,185; June 29; v. 275; p. 945.
Hofmann-Morgan Rubber Company. (See Hofmann, George, assignor.)
Hofmann, William G., assignor to Howard B. Sherman, Battle Creek, Mich. Cover-locking device for grease-cups. No. 1,352,064; Sept. 7; v. 278; p. 68.
Hofmeister, Leo, Milwaukee, Wis. Flat-tire alarm. No. 1,333,076; Mar. 9; v. 272 p. 223.
Hofmeister, Leo, Milwaukee, Wis. Automobile-tire. No. 1,336,139; Apr. 6; v. 273; p. 82.
Hofmeister, Leo, Milwaukee, Wis. Vehicle-wheel. No. 1,350,457; Aug. 24; v. 277; p. 625.
Hofmeister, Leo, Milwaukee, Wis. Footwear. No. 1,356,717; Oct. 26; v. 279; p. 585.
Hofsté, Maarten, Amsterdam, Netherlands. Production of textile fibrous material. No. 1,345,776; July 6; v. 276; p. 88.
Hofstetter, Charles, Peoria, Ill. Ventilator. No. 1,349,764; Aug. 17; v. 277; p. 444.
Hofto, Theona K. (See Loyland, Betsie K., assignor.)
Hogan, Donald P. (See Rendahl, George A., assignor.)
Hogan, George F., Chicago, Ill. Envelop. No. 1,359,063; Nov. 16; v. 280; p. 469.
Hogan, Jay J., Erie, Pa. Priming device. No. 1,337,772; Apr. 20; v. 273; p. 527.
Hogan, John L., Jr., assignor, by mesne assignments, to International Radio Telegraph Company, Brooklyn, N. Y. Radiosignaling. No. 1,350,100; Aug. 17; v. 277; p. 508.
Hogan, John L., Jr., New York, N. Y., assignor to S. M. Kintner and H. M. Barrett, receivers of National Electric Signaling Company. Receiver for wireless telegraphy. No. 1,363,319; Dec. 28; v. 281; p. 600.
Hogdin, John H., A. Z. Coats, and L. M. Miller, Newbern, Tenn. Cotton-scraper. No. 1,358,208; Nov. 9; v. 280; p. 255.
Hoge, Joseph F. D., New York, N. Y. Thermostat. No. 1,329,122; Jan. 27; v. 270; p. 548.
Hoge Manufacturing Company, The. (See Saunders, William M., assignor.)
Hoge Manufacturing Company, The. (See Terrell, Frank J., assignor.)
Hogen, Charles C., Cleveland, Ohio. Coupling. No. 1,360,526; Nov. 30; v. 280; p. 870.
Hogg, Arthur D., Grand Forks, N. D. Spare wheel for vehicles. No. 1,340,485; May 18; v. 274; p. 478.
Hogg, Leonard J., Philadelphia, Pa. Filling-receptacle. No. 1,347,272; July 20; v. 276; p. 505.
Hogg, William S., Washington, D. C. Sound-direction indicator. No. 1,354,299; Sept. 28; v. 278; p. 649.
Hogle, Harry C., Chicago, Ill. Locomotive-cab window. No. 1,348,647; Aug. 3; v. 277; p. 100.
Hogston, John H., Minneapolis, Minn. Antiskid attachment for wheels. No. 1,344,273; June 22; v. 275; p. 703.
Hogue, Frank G., Birmingham, Ala. Window-shade bracket. No. 1,354,297; Sept. 28; v. 278; p. 669.
Hogue, Oliver D., Brookline, assignor to C. H. Maxwell, Boston, Mass. Shoe-filling machine. No. 1,329,407; Feb. 3; v. 271; p. 12.
Hohenstein, Edward L., *et al.* (See Engel, William C., assignor.)
Hohenstein, George, Ringwood, Ill. Corn-husking rolls. No. 1,361,463; Dec. 7; v. 281; p. 98.
Hohl, George I., Newark, N. J., assignor to Any Package Wrapping Co. Wrapping-machine. No. 1,362,311; Dec. 14; v. 281; p. 313.
Hohman, Henry, Stockton, Calif. Dredger. No. 1,356,624; Oct. 26; v. 279; p. 567.
Hohmann, Adolph, deceased, assignor of one-half to H. Kreikenbohm, Cleveland; H. C. Hohmann, administrator, assignor of one-half to H. C. Hohmann, Lakewood, Ohio. Universal joint. No. 1,355,603; Oct. 12; v. 279; p. 280.
Hohmann, H. C., administrator. (See Hohmann, Adolph.)
Hohmann, Helmuth C., *et al.* (See Hohmann, Adolph, assignor.)
Hohmann, Henry C., Louisville, Ky. Stop and waste cock plug. No. 1,347,951; July 27; v. 276; p. 696.
Hohmann, Richard K., Sioux City, Iowa. Sewing-machine. No. 1,343,823; June 15; v. 275; p. 550.
Hohmeister, Arthur, assignor to The John Douglas Company, Cincinnati, Ohio. Ball-cock. No. 1,338,179; Apr. 27; v. 273; p. 678.
Holland, Albert, Fargo, N. D. Automatic reversible fan for explosive-engines. (Reissue.) No. 14,838; Apr. 18; v. 273; p. 340.
Hollo, Michael, Clifton Heights, Pa. Folding bed. No. 1,358,209; Nov. 9; v. 280; p. 255.
Hoisington, William A. J., Dallas, Oreg. Stem-clipping device for fruit and vegetable pickers. No. 1,347,098; July 20; v. 276; p. 470.
Hojgaard, Anders, C. E., Copenhagen, Denmark. Device for automatic extinction or dampening of the flame in gas-cookers. No. 1,352,001; Sept. 7; v. 278; p. 57.
Hokanson, Charles, assignor of one-third to E. Hokanson and one-third to E. Koeppe, Crookston, Minn. Safety or lock hook. No. 1,363,873; Dec. 28; v. 281; p. 707.
Hokanson, Emanuel, *et al.* (See Hokanson, Charles, assignor.)
Hokanson, Martin, Duluth, Minn. Shovel-testing machine. No. 1,350,458; Aug. 24; v. 277; p. 625.
Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Typewriter. No. 1,348,946; Aug 10; v. 277; p. 210.
Hoke, Charles E. (See Block, Otto B., assignor.)
Hoke, Jacob F., Jr. (See Holcomb, J. I., and Hoke, Jr.)
Holaday, Albert H., *et al.* (See Zwicker, Frederick P., assignor.)
Holahan, William H., assignor to Hol-Mor Wheel Company, San Francisco, Calif. Wheel. No. 1,334,493; Mar. 23; v. 272; p. 596.
Holahan, William H., assignor to Hol-Mor Wheel Company, San Francisco, Calif. Wheel. No. 1,334,494; Mar. 23; v. 272; p. 596.
Holam, Limited. (See Hamburger, A., and Day, assignors.)
Holbrook Company. (See Henderson, William A., assignor.)
Holbrook, Eugene and M. E., Oakland, Calif. Rotary character toy. No. 1,349,202; Aug. 10; v. 277; p. 260.
Holbrook, Harry R., Attleboro, Mass. Key and container. No. 1,340,850; May 18; v. 274; p. 546.
Holbrook, Mollie E. (See Holbrook, Eugene and M. E.)
Holcomb & Hoke Manufacturing Company. (See Booth, Earl C., assignor.)
Holcomb and Hoke Manufacturing Company. (See Holcomb, J. I., and Hoke, Jr., assignors.)
Holcomb & Hoke Manufacturing Company. (See Tripp, Charles E., assignor.)
Holcomb and Hoke M'f'g Co. (See Tripp, Charles A., assignor.)
Holcomb, James I., and J. F. Hoke, Jr., assignors to Holcomb and Hoke Manufacturing Company, Indianapolis, Ind. Amusement apparatus. No. 1,352,666; Sept. 14; v. 278; p. 220.
Holcomb, Ulysses O., Terre Haute, Ind. Necktie attachment. No. 1,330,708; Feb. 10; v. 271; p. 286.
Holczer, Mike, Norfolk, Va. Tractor-hitch. No. 1,327,611; Jan. 13; v. 270; p. 199.
Holczer, Mike, Norfolk, Va. Tractor control. No. 1,335,237; Mar. 30; v. 272; p. 796.
Holdaway, Hall H. (See Gabel, T. R., and Holdaway.)
Holdaway, Hall H., Los Angeles, Calif. Machine for extracting fiber from palms and the like. No. 1,342,714; June 8; v. 275; p. 268.
Holdaway, Hall H., Los Angeles, Calif., assignor to Desert Fibre Company. Machine for extracting fiber from yucca and the like. No. 1,339,825; May 11; v. 274; p. 296.
Holdaway, Hall H., Los Angeles, Calif., assignor, by mesne assignments, to The Adams-Campbell Company, Incorporated. Vehicle-tire. No. 1,345,777; July 6; v. 276; p. 88.
Holdaway, Hall H., and T. R. Gabel, assignors of two-thirds to H. P. Jones, Los Angeles, Calif., and one-third to said Gabel. Product-picking nozzle. No. 1,344,205; June 22; v. 275; p. 689.
Holdaway, William S., Jr., Salt Lake City, Utah. Power-transmission machine. No. 1,328,517; Jan. 20; v. 270; p. 406.
Holdefer, Charles, Donnellson, Iowa. Truck. No. 1,361,728; Dec. 7; v. 281; p. 150.
Holden, David R., Peoria, Ill. Fertilizer-distributer. (Reissue.) No. 14,804; Feb. 10; v. 271; p. 299.
Holden, Edward A. T., Duluth, Minn. Grain-scraper. No. 1,353,341; Sept. 21; v. 278; p. 412.
Holden, Edward R., Los Angeles, Calif. Electrochemical precipitation of metals. (Reissue.) No. 14,849; Apr. 27; v. 273; p. 764.

Digitized by Google

Holden, Harry, Los Angeles, Calif. Current-motor. No. 1,332,178; Feb. 24; v. 271; p. 650.
Holden, Joseph B., Syracuse, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,347,632; July 27; v. 276; p. 632.
Holder, James E., Green Lane, Pa. Metal alloy. No. 1,359,064; Nov. 16; v. 280; p. 470.
Holder, William H., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electrical controller. No. 1,352,896; Sept. 14; v. 278; p. 266.
Holderle, Carl L. (See Holderle, Frederick W. and C. L.)
Holderle, Carl L. and F. W., Rochester, N. Y. Faucet for dispensing high-pressure liquids. No. 1,340,769; May 18; v. 274; p. 531.
Holderle, Frederick W. (See Holderle, Carl L. and F. W.)
Holderle, Frederick W. and C. L., Rochester, N. Y. Apparatus for dispensing beverages. No. 1,332,945; Mar. 9; v. 272; p. 198.
Holdorf, William H., Minneapolis, Minn. Fuse-indicator. No. 1,337,357; Apr. 20; v. 273; p. 448.
Holdredge, Henry J., Wilkes-Barre, Pa. Electrical snap-switch. No. 1,353,589; Sept. 21; v. 278; p. 462.
Holdsworth, Byron H., Los Angeles, Calif. Removing the rear wheels of automobiles from their axles. No. 1,342,907; June 8; v. 275; p. 307.
Holdsworth, Fred D., assignor to Sullivan Machinery Corporation, Claremont, N. H. Compressor-controlling mechanism. No. 1,363,204; Dec. 21; v. 281; p. 537.
Holdsworth, Fred D., assignor to Sullivan Machinery Company, Claremont, N. H. Truck. No. 1,363,205; Dec. 21; v. 281; p. 538.
Holdsworth, Oliver, Oakland, Calif. Window-sash lock. No. 1,345,928; July 6; v. 276; p. 119.
Holdsworth, Willie, Providence, R. I. Faller-bar. No. 1,329,904; Feb. 3; v. 271; p. 105.
Holdsworth, Willie, Providence, R. I. Adjustable saddle for gill-drawing frames. No. 1,347,331; July 20; v. 276; p. 516.
Holecek, Louis, Oakland, Calif. Combined periscope and gun. No. 1,351,649; Aug. 31; v. 277; p. 920.
Holen, John O., Tono, Wash. Vise. No. 1,326,933; Jan. 6; v. 270; p. 10.
Holeproof Hosiery Co. (See Evans, Humphrey, assignor.)
Holifield, Joseph A., Mobile, Ala. Arc-current regulator. No. 1,333,301; Apr. 27; v. 273; p. 696.
Hollinger, Emil F., Jersey City., and C. L. Gulick, Orange, N. J. Shipping container or case for shipping film-reels. No. 1,359,458; Nov. 16; v. 280; p. 546.
Holish, Stephen P., Chicago, Ill. Combination-tool. No. 1,363,874; Dec. 28; v. 281; p. 707.
Holl, Alfred. (See Singer and Holl.)
Holland, Charles E., New York, N. Y. Dust-collector. No. 1,354,483; Oct. 5; v. 279; p. 7.
Holland, Charles W., Altoona, Pa. Tool for removing wheels from their axles. No. 1,345,186; June 29; v. 275; p. 945.
Holland, Frank G., assignor to The Globe Machine & Stamping Company, Cleveland, Ohio. Grinding-machine. No. 1,356,068; Oct. 19; v. 279; p. 411.
Holland Furnace Company. (See Nystrom, Oscar P., assignor.)
Holland, James H., assignor to Holland Manufacturing Co., St. Louis, Mo. Attachment for soda-fountain faucets. No. 1,347,373; July 20; v. 276; p. 524.
Holland, James J., assignor of one-half to F. F. Fischer, Philadelphia, Pa. Sprayer. No. 1,331,648; Feb. 24; v. 271; p. 551.
Holland, Joseph A., Brooklyn, assignor to N. W. Dingwall, Mount Vernon, N. Y. Mechanical scraper. No. 1,341,369; May 25; v. 274; p. 718.
Holland, Joseph B., Youngstown, Ohio. Train-coupling. No. 1,348,947; Aug. 10; v. 277; p. 210.
Holland, Joseph P., Key West, Fla. Chair-seat. No. 1,345,187; June 29; v. 275; p. 945.
Holland Lighting & Specialty Co. (See Olinger, Thomas, assignor.)
Holland Lighting and Specialty Company. (See Olinger, T., and Stalker, assignors.)
Holland, Luther W., Pleasant Hill, Mo. Latch. No. 1,341,802; June 1; v. 275; p. 38.
Holland Manufacturing Co. (See Holland, James H., assignor.)
Holland, Nellie G., Boston, Mass. Sheet, blanket, or the like. No. 1,327,824; Jan. 13; v. 270; p. 288.
Holland, Newman H., assignor to New Jersey Patent Company, West Orange, N. J. Phonograph. No. 1,359,991; Nov. 23; v. 280; p. 697.
Holland, Robert B., Yakima, Wash. Folding automobile camp-table. No. 1,339,028; May 4; v. 274; p. 70.
Holland, Van O., *et al.* (See Hall, James L., assignor.)
Holland, Walter E. (See Pearson, L. J., and Holland.)
Holland, Walter E., and J. M. Skinner, assignors to Philadelphia Storage Battery Company, Philadelphia, Pa. Storage-battery separator. No. 1,329,180; Jan. 27; v. 270; p. 559.
Holland, Walter E., Philadelphia, and L. J. Pearson, Wyncote, assignors to Philadelphia Storage Battery Company, Philadelphia, Pa. Storage battery and preparing same. No. 1,329,181; Jan. 27; v. 270; p. 560.
Holland, Walter J., Fairoaks, assignor of one-fourth to P. M. Pike and A. R. Johnson, San Francisco, Calif. Drill-bit. No. 1,345,854; July 6; v. 276; p. 103.
Holland, William W., and F. J. Gainer, Woodriver, Ill. Hand-hole cover. No. 1,339,340; May 4; v. 274; p. 127.
Hollander, Erik E., Newark, N. J. Tool for making holes non-circular. No. 1,328,085; Jan. 13; v. 270; p. 287.
Hollands, Franklin A., Newark, N. J. Card-holder. No. 1,363,468; Dec. 28; v. 281; p. 623.
Hollands, John C., assignor to Griswold Manufacturing Company, Erie, Pa. Receptacle. No. 1,333,917; Mar. 16; v. 272; p. 441.
Hollarn, Edward F., L. Hubble, E. G. Everton, and F. Wilcox, assignors to Johnson Automobile Sheet Metal Works, Richmond, Ind. Sheet-metal-forming machine. No. 1,360,403; Nov. 30; v. 280; p. 845.
Hollaway, William T., Alliance, Ohio. Loading and unloading truck. No. 1,342,628; June 8; v. 275; p. 250.
Holle, Alexander A., London, England. Aerofoil for aeroplanes and the like. No. 1,337,515; Apr. 20; v. 273; p. 477.
Holle, Joseph, Newark, N. J. Cam and push-rod machine. No. 1,340,717; May 18; v. 274; p. 521.
Hollenback, George M., Lewistown, Mont. Oven or furnace. No. 1,331,644; Feb. 24; v. 271; p. 551.
Hollenback, George M., Los Angeles, Calif. Oven or furnace. No. 1,341,903; June 1; v. 275; p. 57.
Hollenbeck, Albert H. (See Hickok, E., and Hollenbeck.)
Hollenbeck, Michael J., Gloversville, N. Y. One-piece slipper. No. 1,359,377; Nov. 16; v. 280; p. 530.
Hollenbeck, William H., Portland, Oreg. Floor and paving block. No. 1,348,418; Aug. 3; v. 277; p. 57.
Holley, Clarence M., and F. W. Robison, assignors to Utility Compressor Company, Detroit, Mich. Expansion-coil for refrigerating systems. No. 1,352,964; Sept. 14; v. 278; p. 280.
Hollick, Walter J., Manchester, England. Grabs, lifting-dogs, and like lifting and lowering apparatus. No. 1,339,341; May 4; v. 274; p. 127.
Holliday, Jeremiah R., Winnsboro, S. C. Body-brace. No. 1,347,037; July 20; v. 276; p. 459.
Holliday, Jeremiah R., Winnsboro, S. C. Chair. No. 1,350,021; Aug. 17; v. 277; p. 493.
Holliday, John S., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling and high-frequency selective device for use in connection therewith. No. 1,362,624; Dec. 21; v. 281; p. 424.
Holliday, L. B., & Co. (See Badler, L. G., and Holliday, assignors.)
Holliday, Lionel B. (See Badler, L. G., and Holliday.)
Hollings, Ernest, Cleveland, Ohio. Making nut-blanks. No. 1,342,676; June 8; v. 275; p. 260.
Hollings, Ernest, Cleveland, Ohio. Nut-machine. No. 1,346,889; July 20; v. 276; p. 429.
Hollings, Ernest, Cleveland, Ohio. Making nut-blanks. (Reissue.) No. 14,358; Oct. 12; v. 279; p. 318.
Hollings, John C., Boston, Mass. Globe or shade holder for electric lamps. No. 1,346,375; July 13; v. 276; p. 268.
Hollingsworth, Thomas L., assignor to The Elyria Specialty Company, Elyria, Ohio. Elastic sprinkler-cap. No. 1,355,973; Oct. 19; v. 279; p. 392.
Hollingsworth, Thomas L., assignor to The Fay Rubber Products Company, Elyria, Ohio. Heel-retaining device. No. 1,359,805; Nov. 23; v. 280; p. 660.
Hollis, Thomas H., Pittsburgh, Pa. Water-distributing system. No. 1,358,741; Nov. 16; v. 280; p. 407.
Hollister, Clarence P., New York, N. Y. Compression packing-ring and valve. No. 1,362,312; Dec. 14; v. 281; p. 313.
Hollister, Clarence P., New York, N. Y. Piston and making same. No. 1,362,313; Dec. 14; v. 281; p. 313.
Hollister, G. S., Boston, and E. B. Cooper, Newton, Mass., assignor to The Oil Wells Renewal Company, Boston, Mass. Oil-well heater. No. 1,360,404; Nov. 30; v. 280; p. 845.
Hollister Lumber Company, The. (See Spencer, Thomas G., assignor.)
Hollister, Mark, Jr., Fort Dodge, Iowa. Demountable rim. No. 1,345,332; June 29; v. 275; p. 973.
Hollister, William C., Chicago, Ill. Ruled linotype-form and means for producing same. No. 1,349,720; Aug. 17; v. 277; p. 436.
Hollmann, William H., Loretto, Tenn. Cultivator. No. 1,353,342; Sept. 21; v. 278; p. 413.
Hollmann, William H., Loretto, Tenn. Farming implement. No. 1,358,742; Nov. 16; v. 280; p. 407.
Hollow Structure and Aircraft Company. (See Prior, W. and W. L., and Gibson, assignors.)
Holloway, Madge M., Montgomery, Ala. Means for advertising quarters, lodgings, or the like. No. 1,338,135; Apr. 27; v. 273; p. 665.
Holloway, Oscar P., Detroit, Mich. Toy. No. 1,332,253; Mar. 2; v. 272; p. 15.
Holloway, Sarah A., Hereford, Tex. Roasting-pan. No. 1,339,625; May 11; v. 274; p. 258.
Holloway, William B. (See Cottrell and Holloway.)
Holloway, William M., Austin, assignor to Charles W. Shonk Company, Chicago, Ill. Adding-machine. No. 1,337,599; Apr. 20; v. 273; p. 493.
Holloway, William M., Maywood, Ill., assignor to American Can Company, New York, N. Y. Listing-adder. No. 1,348,564; Aug. 3; v. 277; p. 84.

Digitized by Google

Holm, Charles A., Tigerton, Wis. Sharpener for feed-cutters. No. 1,339,511; May 11; v. 274; p. 236.
Holm, Christian, Bowman, N. D. Expansible core. No. 1,337,910; Apr. 20; v. 273; p. 553.
Holm, John A., New York, N. Y. Timer. No. 1,344,395; June 22; v. 275; p. 727.
Holm, Svante V., Stockholm, Sweden. Device for the carrying of curtain-rods and the like. No. 1,355,974; Oct. 19; v. 279; p. 392.
Holm, Svante V., Stockholm, Sweden. Device for carrying curtain-rods and the like. No. 1,357,054; Oct. 26; v. 279; p. 651.
Holman, Daniel F., Farmersville, Ohio. Appliance for the protection and preservation of drains and small sewers. No. 1,327,278; Jan. 6; v. 270; p. 75.
Holman, Harry V., Chicago, Ill. Multiple miter-clamp. No. 1,359,597; Nov. 23; v. 280; p. 619.
Holman, Joseph H. (See Nettle, W. E., Selby, Blyth, and Holman.)
Holman, Ralph H., Stoneham, and F. D. Shenk, Medford, assignors to The Legalite Corporation, Boston, Mass. Headlight. No. 1,331,813; Feb. 24; v. 271; p. 583.
Holman, Stephen W. (See Andrews, M. L., and Holman.)
Holman, Stephen W. (See Andrews, M. V., and Holman.)
Holmberg, Axel F., San Mateo, Calif. Metal reinforcement and support for concrete tanks. No. 1,359,065; Nov. 16; v. 280; p. 470.
Holmer, Oscar, assignor of one-third to G. H. Ekback, Seattle, Wash. Milk-strainer. No. 1,357,867; Nov. 2; v. 280; p. 127.
Holmes, Albert B., and T. M. Dugan, McKeesport, Pa. Spray-valve. No. 1,337,516; Apr. 20; v. 273; p. 478.
Holmes, Anderson M., Baltimore, Md., assignor of fifteen one-hundredths to M. Smith, fifteen one-hundredths to A. L. Fisk, nineteen one-hundredths to O. I. Woodley, eighteen one-hundredths to W. F. Metcalf, and thirty-three one-hundredths to E. L. Torsch. Atomizer. No. 1,351,012; Aug. 24; v. 277; p. 731.
Holmes, Andrew A. (See McKee, R. H., and Holmes.)
Holmes, Andrew E., New York, N. Y. Drink mixer and dispenser. No. 1,348,222; Aug. 3; v. 277; p. 18.
Holmes, Arthur, Syracuse, N. Y., assignor to The Holmes Automobile Company, Canton, Ohio. Valve-operating mechanism for gas-engines. No. 1,332,294; Mar. 2; v. 272; p. 23.
Holmes, Arthur, assignor to H. H. Franklin Manufacturing Company, Syracuse, N. Y. Valve-mechanism support. No. 1,352,897; Sept. 14; v. 278; p. 266.
Holmes Automobile Company, The. (See Holmes, Arthur, assignor.)
Holmes, Chester H. (See Mummelthy, F., and Holmes.)
Holmes, Clyde E., Elyria, Ohio. Can-opener. No. 1,361,859; Dec. 14; v. 281; p. 223.
Holmes, Edward, St. Louis, Mo. Sign character. No. 1,349,670; Aug. 17; v. 277; p. 426.
Holmes, Edward L., assignor to Printing Trades Manufacturing Company, Seattle, Wash. Linotype-mold. No. 1,337,358; Apr. 20; v. 273; p. 448.
Holmes, Elbridge R., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Warp stop-motion. No. 1,360,638; Nov. 30; v. 280; p. 892.
Holmes, Ephraim M., Minneapolis, Minn., assignor to D. E. French, Stuart, Fla. Tractor. No. 1,333,418; Mar. 9; v. 272; p. 287.
Holmes, Ephraim M., Minneapolis, Minn., assignor to D. E. French, Stuart, Fla. Traction-engine. No. 1,348,877; Aug. 10; v. 277; p. 196.
Holmes, Ernest, Chattanooga, Tenn. Derrick-truck. No. 1,359,378; Nov. 16; v. 280; p. 530.
Holmes, Ernest, Chattanooga, Tenn. Derrick-truck. No. 1,359,379; Nov. 16; v. 280; p. 530.
Holmes, Frank A. B., assignor to B. L. Gray, Chicago, Ill. Automatic air-chuck. No. 1,362,699; Dec. 21; v. 281; p. 438.
Holmes, Frank M., assignor to Miller Vehicle Heater Company, Crawfordsville, Ind. Temperate drinking-fount. No. 1,357,868; Nov. 2; v. 280; p. 127.
Holmes, Fred W., Lowell, Mass. Device for attaching coverings to rolls. No. 1,332,467; Mar. 2; v. 272; p. 56.
Holmes, Gwyllym R., Baltimore, Md. Marine torch. No. 1,333,313; Mar. 9; v. 272; p. 267.
Holmes, Harleigh R., Denver, Colo. Power-transmission mechanism. (Reissue.) No. 14,808; Mar. 2; v. 272; p. 133.
Holmes, James S., assignor to James Spicer and Sons Limited, London, England. Apparatus for winding paper cardboard and like tubes. No. 1,335,894; Apr. 6; v. 273; p. 36.
Holmes, Johannes A., Eureka, Calif. Window-shade roller. No. 1,346,406; July 13; v. 276; p. 274.
Holmes, John H., Anoka, Minn. Winch. No. 1,358,238; Sept. 21; v. 278; p. 393.
Holmes, Leslie W., assignor to The Holmes Mfg. Co., Shelton, Conn. Antiskid device for autotruck-wheels. No. 1,329,764; Feb. 3; v. 271; p. 78.
Holmes, Leslie W., assignor to Holmes Manufacturing Co., Shelton, Conn. Antiskid device for autotruck-wheels. No. 1,329,765; Feb. 3; v. 271; p. 78.
Holmes, Leslie W., assignor to Holmes Manufacturing Co., Shelton, Conn. Antiskid device for dual-tire auto-truck-wheels. No. 1,329,766; Feb. 3; v. 271; p. 78.
Holmes Mfg Co., The. (See Holmes, Leslie W., assignor.)
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Trucks. No. 1,342,407; June 1; v. 275; p. 155.
Holmes, Morris P., Claremont, N. H., assignor, by mesne assignments, to Jeffrey Manufacturing Company, Columbus, Ohio. Clutch-controlling mechanism. No. 1,347,811; July 27; v. 276; p. 668.
Holmes, Oscar J., St. Louis, Mo. Automatic fire-extinguishing apparatus for oil-tanks. No. 1,356,207; Oct. 19; v. 279; p. 439.
Holmes, Oscar J., St. Louis, Mo. Fire-extinguisher for projecting foam and liquid. No. 1,361,997; Dec. 14; v. 281; p. 251.
Holmes, Roy M. (See Andrews, H. N., and Holmes.)
Holmes, Stanley B., Seattle, Wash. Automobile-tire. No. 1,363,976; Dec. 28; v. 281; p. 727.
Holmes, Thomas E., Glasgow, Scotland. Connection with plate and like rolling mills. No. 1,342,264; June 1; v. 275; p. 128.
Holmes, Thomas E., Glasgow, Scotland. Cogging and like mill for tires. No. 1,357,055; Oct. 26; v. 279; p. 652.
Holmes, Thomas J., Chicago, Ill. Car-journal lubricator. No. 1,327,429; Jan. 6; v. 270; p. 102.
Holmes, Walter C., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Obtaining a liquid of high acidity from niter cake. No. 1,354,649; Oct. 5; v. 279; p. 41.
Holmes, William K., Brooklyn, N. Y. Pencil. No. 1,346,711; July 13; v. 276; p. 335.
Holmes, William T. (See Whittingham, G. H., and Holmes.)
Holmgren, Torsten A. F., Stockholm, and C. T. Thorssell, assignors to Aktiebolaget Kvofveindustri, Gottenborg, Sweden. Heating of material or the performance of chemical processes in electrical furnaces, together with apparatus intended therefor. No. 1,342,809; June 8; v. 275; p. 288.
Holmon, Joseph H. (See Nettle, W. E., Selby, Blythe, and Holmon.)
Hol-Mor Wheel Company. (See Holahan, William H., assignor.)
Holmquist, John A. (See O'Neil, D., Holmquist, and Free, assignors.)
Holmström, Johan A., Aérovik, Viggbyholm, Sweden. Multicylinder engine. No. 1,358,954; Nov. 16; v. 280; p. 449.
Holmstrom, Victor, Detroit, Mich. Collapsible boat. No. 1,359,806; Nov. 23; v. 280; p. 660.
Holophane Glass Company. (See Dorey, William A., assignor.)
Holroyd, Thomas H., London, assignor of one-half to R. D. D. McLean, Westminster, England. Apparatus for generating power. No. 1,355,671; Oct. 12; v. 279; p. 293.
Holsey, Arthur, assignor to International Harvester Company, Chicago, Ill. Lister-plow. No. 1,362,795; Dec. 21; v. 281; p. 459.
Holslag, Claude J., South Orange, N. J. Welding system. No. 1,354,398; Sept. 28; v. 278; p. 669.
Holst, Charles T., assignor of one-half to W. J. Cullerton, Chicago, Ill. Guarding mechanism for spark-plugs of internal-combustion engines. No. 1,353,959; Sept. 28; v. 278; p. 579.
Holst, John, Oakland, Calif. Pump. No. 1,334,935; Mar. 23; v. 272; p. 681.
Holst, Lodewyk, J. R. (See Brock, A., Jr., Holst, and Mottlau.)
Holst, Louie A., Columbia, S. C. Drifting device for locomotives. No. 1,331,013; Feb. 17; v. 271; p. 418.
Holstein, Henry B. (See Harkins, H. B., Holstein, and Poland.)
Holstein, John V., assignor to Deere and Company, Moline, Ill. Two-row cultivator. No. 1,346,317; July 13; v. 276; p. 258.
Holstein, Michael B., Richland, Pa. Pump. No. 1,330,266; Feb. 10; v. 271; p. 203.
Holstrom, Enoch N. (See Sederholm, John E., assignor.)
Holt Auto Devices Company. (See Holt, Edward E., assignor.)
Holt, Ben C., Spokane, Wash., assignor to The Holt Manufacturing Company, Stockton, Calif. Combined harvester and thresher. No. 1,344,396; June 22; v. 275; p. 727.
Holt, Benjamin, Stockton, Calif. Link tread-track. No. 1,327,556; Jan. 6; v. 270; p. 126.
Holt, Clarence E., Henryetta, Okla. Frame-adjuster. No. 1,358,210; Nov. 9; v. 280; p. 255.
Holt, Daniel S., assignor to Strathmore Paper Company, Mittineague, Mass. Recording-hydrometer. No. 1,341,014; May 25; v. 274; p. 649.
Holt, Edward E., assignor to Holt Auto Devices Company, Chicago, Ill. Valve-cap. No. 1,329,182; Jan. 27; v. 270; p. 560.
Holt, Frank A., Rochdale, and G. Kershaw, Whitworth, England, assignors, by mesne assignments, to Foster Machine Company, Westfield, Mass. Winding-machine. No. 1,353,474; Sept. 21; v. 278; p. 438.

Digitized by Google

Holt, Frank A., Rochdale, and G. Kershaw, Whitworth, England, assignors, by mesne assignments, to Foster Machine Company, Westfield, Mass. Winding-machine. No. 1,353,475; Sept. 21; v. 278; p. 439.

Holt, Frank A., Rochdale, and G. Kershaw, Whitworth, England, assignors, by mesne assignments, to Foster Machine Company, Westfield, Mass. Yarn-tension device. No. 1,353,476; Sept. 21; v. 278; p. 439.

Holt, Frederick A., Arlington, N. J., assignor to Jewel Tool Specialty Company, New York, N. Y. Screw-driver. No. 1,355,743; Oct. 12; v. 279; p. 307.

Holt, Frederick B., Antrobus, near Northwich, England, assignor to Westinghouse Electric and Manufacturing Company. Circuit-interrupter. No. 1,327,825; Jan. 13; v. 270; p. 238.

Holt, Frederick B., Antrobus, near Northwich, England, assignor to Westinghouse Electric and Manufacturing Company. Circuit-interrupter. No. 1,335,113; Mar. 30; v. 272; p. 774.

Holt, George H. F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Storage-battery locomotive. No. 1,352,452; Sept. 14; v. 278; p. 177.

Holt, Harold E. S., Farmborough, England. Parachute-flare. No. 1,346,454; July 13; v. 276; p. 284.

Holt, Harold E. S., Farnborough, England. Flare for use on aircraft. No. 1,360,527; Nov. 30; v. 280; p. 870.

Holt, Harris B., Dormont, assignor to Rosedale Foundry & Machine Company, Pittsburgh, Pa. Furnace construction. No. 1,342,908; June 8; v. 275; p. 307.

Holt, John W., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Method of and apparatus for electric welding. No. 1,334,756; Mar. 23; v. 272; p. 646.

Holt, Louie H., Carmen, Okla. Riding cultivating-machine. No. 1,354,556; Oct. 5; v. 279; p. 22.

Holt Manufacturing Company, The. (See Ball, Charles F., assignor.)

Holt Manufacturing Company, The. (See Best, Clarence L., assignor.)

Holt Manufacturing Company, The. (See Holt, Ben C., assignor.)

Holt Manufacturing Company, The. (See Holt, Pliny E., assignor.)

Holt Manufacturing Company, The. (See Mayall, Edwin L., assignor.)

Holt Manufacturing Company, The. (See Norelius, E. F., and Turnbull, assignors.)

Holt Manufacturing Company, The. (See Norelius, Emil F., assignor.)

Holt Manufacturing Company, The. (See Turnbull, William, assignor.)

Holt Manufacturing Company, The. (See Wickersham, Elmer E., assignor.)

Holt, Pliny E., Stockton, Calif. Draft-rigging. No. 1,327,557; Jan. 6; v. 270; p. 126.

Holt, Pliny E., assignor to The Holt Manufacturing Company, Stockton, Calif. Tractor. No. 1,336,961; Apr. 13; v. 273; p. 298.

Holt, Pliny E., assignor to The Holt Manufacturing Company, Stockton, Calif. Gun-carriage. No. 1,344,397; June 22; v. 275; p. 727.

Holt, Pliny E., assignor to The Holt Manufacturing Company, Stockton, Calif. Track-chain. No. 1,344,398; June 22; v. 275; p. 727.

Holt, Pliny E., assignor to The Holt Manufacturing Company, Stockton, Calif. Steering-clutch. No. 1,344,399; June 22; v. 275; p. 728.

Holt, Pliny E., assignor to The Holt Manufacturing Company, Stockton, Calif. Fluid-transmission control. No. 1,356,718; Oct. 26; v. 279; p. 580.

Holt, Samuel M. (See Graves, R. W., and Holt.)

Holt, Stephen S., Superior, Wis. Film-rewinding machine. No. 1,361,860; Dec. 14; v. 281; p. 223.

Holtan, Horace A., Falkirk, N. D. Grain-cleaner. No. 1,354,750; Oct. 5; v. 279; p. 60.

Holtby, Wilkie H. (See McBride, Oscar C., assignor.)

Holthaus, Elmo G., St. Louis, Mo. Internal-combustion engine. No. 1,359,598; Nov. 23; v. 280; p. 619.

Holtom, Albert O., New York, N. Y. Vehicle-body. No. 1,327,558; Jan. 6; v. 270; p. 127.

Holton-Abbott Manufacturing Company. (See Holton, Edwin C., assignor.)

Holton, Birchard E., Los Angeles, Calif. Air-brush. No. 1,349,154; Aug. 10; v. 277; p. 251.

Holton, Edward C., Olmsted Falls, assignor to Sherwin-Williams Company, Cleveland, Ohio. Treating polysulfid solutions. (Reissue.) No. 14,890; June 22; v. 275; p. 771.

Holton, Edwin C., Somerville, assignor to Holton-Abbott Manufacturing Company, West Somerville, Mass. Handle for valves and other uses. No. 1,354,106; Sept. 28; v. 278; p. 610.

Holton, Frank, Elkhorn, Wis. Musical wind instrument. No. 1,350,806; Feb. 17; v. 271; p. 372.

Holton, Frank, & Company. (See Ackley, William D., assignor.)

Holton, Henry R., Chicago, Ill. Intake-manifold shield. No. 1,362,796; Dec. 21; v. 281; p. 459.

Holton, Jesse A., East Orange, N. J., assignor to Gray & Davis Inc., Cambridge, Mass. Engine-starter. No. 1,359,703; Nov. 23; v. 280; p. 639.

Holtsclaw, George W., and H. Larson, Gowrie, Iowa. Seed-corn stringer. No. 1,360,239; Nov. 23; v. 280; p. 745.

Holtvoigt, Henry B., Dayton, Ohio. Kite and making same. No. 1,337,403; Apr. 20; v. 273; p. 456.

Holtvoigt, Henry B., assignor to The Ohio Rake Company, Dayton, Ohio. Combined side-delivery rake and tedder. No. 1,334,958; Mar. 30; v. 272; p. 748.

Holtzman, Abraham M., Brooklyn, N. Y. Self-propelled sadiron. No. 1,331,107; Feb. 17; v. 271; p. 430.

Holtzman, Abraham M., Brooklyn, N. Y. Sole-stitching machine. No. 1,347,038; July 20; v. 276; p. 459.

Holub, Charles J., assignor to The W. E. Lamneck Company, Columbus, Ohio. Furnace structure. No. 1,358,550; Nov. 9; v. 280; p. 324.

Holub Dusha Company. (See Dusha, P. F., and Feyk, assignors.)

Holway, Arthur W., Los Angeles, Calif. Timer. No. 1,357,455; Nov. 2; v. 280; p. 48.

Holwick, Daniel L., Canton, Ohio. Drying-rack for hot-air registers. No. 1,334,032; Mar. 16; v. 272; p. 464.

Holwick, Daniel L., Canton, Ohio. Toy. No. 1,354,739; Oct. 5; v. 279; p. 60.

Holy, George H. F. (See Bright, G., Holy, and Hardcastle.)

Holy, George H. F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Co. Locomotive. No. 1,351,038; Aug. 31; v. 277; p. 800.

Holy, George H. F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Co. Electric locomotive. No. 1,351,039; Aug. 31; v. 277; p. 800.

Holy, James R., assignor of one-half to Segelke & Kohlhaus Mfg. Co., La Crosse, Wis. Glazier's point-setter. No. 1,342,110; June 1; v. 275; p. 98.

Holyoke Plush Company. (See Cameron, William J., assignor.)

Holz, Herman A., and F. P. Fahy, New York, N. Y.; said Fahy assignor to said Holz. Scoring metal. No. 1,333,311; Mar. 9; v. 272; p. 267.

Holzapfel, Albert C., and P. Walther, New York, N. Y. Composition for coating new iron and steel. No. 1,328,282; Jan. 20; v. 270; p. 360.

Holzapfel, Albert C., New York, N. Y. Floor-covering. No. 1,358,371; Nov. 9; v. 280; p. 288.

Holzapfel, Albert C., and P. Walther, New York, N. Y. Composition for coating iron, steel, and wood. No. 1,338,921; May 4; v. 274; p. 50.

Holzbauer, Albert J. (See Baker, Charles, assignor.)

Holzbauer, Albert J. (See Sebald, George J., assignor.)

Holze, Homer M., Cleveland, Ohio. Internal-combustion motor. No. 1,340,223; May 18; v. 274; p. 428.

Holzinger, William H., Annawan, Ill. Automobile-spring. No. 1,333,806; Mar. 16; v. 272; p. 421.

Homan, Annie N., Titusville, Pa. Needle-shield. No. 1,360,952; Nov. 30; v. 280; p. 953.

Homan, Frank W., Philadelphia, Pa. Turned shoe. No. 1,350,156; Aug. 17; v. 277; p. 519.

Homan, John G., Steubenville, Ohio, assignor, by mesne assignments, to W. H. Keller, Norton, Va. Alloy. No. 1,352,367; Sept. 7; v. 278; p. 125.

Homan, Louis V., South Dartmouth, Mass. Power-operated sliding door. No. 1,332,727; Mar. 2; v. 272; p. 105.

Homan, Walter A., Denver, Colo. Adding-machine. No. 1,333,253; Mar. 9; v. 272; p. 256.

Homan, Walter A., Denver, Colo. Rotary engine. No. 1,349,882; Aug. 17; v. 277; p. 466.

Homans, James E., New York, N. Y. Apparatus for and method of transmitting photographs and other pictures telegraphically. No. 1,356,767; Oct. 26; v. 279; p. 595.

Homans, Thomas S., Hempstead, assignor to Intertype Corporation, Brooklyn, N. Y. Assembler-entrance for typographical machines. No. 1,331,343; Feb. 17; v. 271; p. 473.

Homans, Thomas S., Hempstead, assignor to Intertype Corporation, Brooklyn, N. Y. Distributer for typographical machines. No. 1,334,098; Mar. 16; v. 272; p. 476.

Homans, Thomas S., Hempstead, assignor to Intertype Corporation, Brooklyn, N. Y. Magazine for typographical machines. No. 1,338,627; Apr. 27; v. 273; p. 757.

Homans, Thomas S., Hempstead, assignor to Intertype Corporation, Brooklyn, N. Y. Typographical machine. No. 1,338,628; Apr. 27; v. 273; p. 757.

Homans, Thomas S., Hempstead, assignor to Intertype Corporation, Brooklyn, N. Y. Typographical machine. No. 1,352,965; Sept. 14; v. 278; p. 280.

Home Gas Appliance Co. (See Graffunder, Saraha A., assignor.)

Homeniuk, John, Sturgis, Saskatchewan, Canada. Automatic gate. No. 1,332,899; Mar. 2; v. 272; p. 43.

Homeniuk, Werona, Woodlight, Saskatchewan, Canada. Envelop. No. 1,350,928; Aug. 24; v. 277; p. 715.

Honda, Kotaro, Yonega-Fukuro, Sendai, assignor to Sumitomo Chukosho, Ltd., Osaka, Japan. Magnet-steel. No. 1,338,132; Apr. 27; v. 273; p. 664.

Honda, Kotaro, Yonega-Fukuro, Sendai, assignor to Sumitomo Chukosho, Ltd., Osaka, Japan. Magnet-steel. No. 1,338,133; Apr. 27; v. 273; p. 665.

Digitized by Google

Honda, Kotaro, Yonega-Fukuro, Sendai, assignor to Sumitomo Chukosho, Ltd., Osaka, Japan. Magnet-steel. No. 1,338,184; Apr. 27; v. 273; p. 665.
Honda Tomotake, Ongagun, assignor to H. Nishimura, Tokyo, Japan. Manufacturing elastic imitation hemp. No. 1,351,385; Aug. 31; v. 277; p. 868.
Honetchlager, George. (See Babcock, Howard, assignor.)
Honetschlager, George. (See Kelly, James, assignor.)
Honeywell, Edward R., Garber, Okla. Walking-tractor. No. 1,351,752; Sept. 7; v. 278; p. 7.
Honig, Charles A., St. Louis, Mo. Dressing for automobile-tops and the like. No. 1,353,289; Sept. 21; v. 278; p. 393.
Hönig, Edgar, Wilmersdorf-Berlin, assignor to the Firm Optische Signale Gesellschaft mit beschränkter Haftung, Berlin, Germany. Optical sign. No. 1,349,277; Aug. 10; v. 277; p. 276.
Honiss, William H., Hartford, Conn., assignor to Hartford-Fairmont Company, Canajoharie, N. Y. Adjustment and indicator for glass-working machines. No. 1,331,467; Feb. 17; v. 271; p. 497.
Honold, Gottlob, Stuttgart, and A. Krauss, Cannstatt, Germany, assignors, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Priming system for internal-combustion engines. No. 1,327,430; Jan. 6; v. 270; p. 102.
Honsinger, Ornan A., Tacoma, Wash. Folding davenport-bed. No. 1,349,883; Aug. 17; v. 277; p. 467.
Honstedt, Orra V., Upland, Calif. Tree-protecting apparatus. No. 1,351,249; Aug. 31; v. 277; p. 840.
Hood, Benjamin M., Atlanta, Ga. Machine for forming clay tower-spirals. No. 1,346,786; July 13; v. 276; p. 351.
Hood, Bunt, Columbus, Ga. Aeroplane. No. 1,347,952; July 27; v. 276; p. 696.
Hood, Carlyle E., Memphis, Tenn. Fountain-pen. No. 1,338,629; Apr. 27; v. 273; p. 757.
Hood, Ernest K., deceased, Indianapolis, Ind.; H. H. Hood, administratrix. Operating mechanism for slicing-machines. No. 1,340,829; May 18; v. 274; p. 542.
Hood, Harriet H., administratrix. (See Hood, Ernest K.)
Hood, Henry, Philadelphia, Pa. Screwdriver. No. 1,345,443; July 6; v. 276; p. 23.
Hood, James J., assignor of twenty-five per cent. to S. A. Saxon, Ponder, Ga. Circuit-closer for locks. No. 1,347,039; July 20; v. 276; p. 459.
Hood, John J., London, England. Purification of sulfur. No. 1,331,645; Feb. 24; v. 271; p. 551.
Hood, John J., London, England. Purification of sulfur. No. 1,331,646; Feb. 24; v. 271; p. 551.
Hood Rubber Company. (See Perrault, Joseph E., assignor.)
Hood, William C., Chicago, Ill. Commutator-brush. No. 1,352,408; Sept. 7; v. 278; p. 132.
Hoodwin, Joseph W., Chicago, Ill. Crimping and folding machine. No. 1,353,590; Sept. 21; v. 278; p. 462.
Hoofer, Charles F., Seattle, Wash. Automatic means for operating flange-oilers, &c. No. 1,343,973; June 22; v. 275; p. 644.
Hoofnagle, Charles H., Laporte, Ind. Thread-holder. No. 1,336,903; Apr. 13; v. 273; p. 288.
Hook, Alexander E., assignor of one-half to W. W. Steed, Stockton, Calif. Chuck. No. 1,359,992; Nov. 23; v. 280; p. 697.
Hook, Charles B., Muncie, Ind. Cultivator-fender. No. 1,328,518; Jan. 20; v. 270; p. 406.
Hook, Jacob, Reno, Nev. Shield for covers for radiators. No. 1,329,836; Feb. 3; v. 271; p. 92.
Hook, Jacob, Reno, Nev. Dental-floss-tape lip-protector. No. 1,329,837; Feb. 3; v. 271; p. 92.
Hook, William D., Savannah, Ga. Tire. No. 1,363,596; Dec. 28; v. 281; p. 654.
Hooker Electrochemical Company. (See Marsh, William J., assignor.)
Hooker, Leslie E., Lowell, Mass. Machine for making cartridge-shells. No. 1,352,194; Sept. 7; v. 278; p. 92.
Hooker, Leslie E., Lowell, Mass. Machine for heading cartridge-shells. No. 1,363,597; Dec. 28; v. 281; p. 654.
Hooker, Ross B., Lowell, Mass. Making radiator-tubes. No. 1,363,416; Dec. 28; v. 281; p. 618.
Hookham, George. (See Hatfield, H. S., and Hookham.)
Hookless Fastener Company. (See Sundback, Gideon, assignor.)
Hooper, F. X., Company. (See Mast, John C., assignor.)
Hooper, Forest, Edmonton, Alberta, Canada. Connection between vehicle poles and yokes. No. 1,360,528; Nov. 30; v. 280; p. 870.
Hooper, Harri G., Los Angeles, Calif. Aeroplane construction. o. 1,331,150; Feb. 17; v. 271; p. 438.
Hooper, Harris G., Los Angeles, Calif. Aeroplane construction. No. 1,347,040; July 20; v. 276; p. 459.
Hooper, Harris G., San Francisco, Calif. Aeroplane construction. No. 1,348,996; Aug. 10; v. 277; p. 219.
Hooper, Harris G., San Francisco, Calif. Aeroplane construction. No. 1,351,852; Sept. 7; v. 278; p. 28.
Hooper, Harry L. (See Blanton, R. H., and Hooper.)
Hooper, Thomas D., Jr., Philadelphia, Pa. Amusement apparatus. No. 1,360,953; Nov. 30; v. 280; p. 953.
Hoopes, Charles L., San Diego, Calif. Submerged pile and means for constructing the same. No. 1,360,986; Nov. 30; v. 280; p. 960.
Hoops, Herman H., New York, N. Y. Combined sifter and funnel. No. 1,333,419; Mar. 9; v. 272; p. 287.
Hooven Automatic Typewriter Corporation. (See Pilling, John H., assignor.)
Hooven Radiator Company. (See Spery, Charles F., assignor.)
Hoover, C. V., and C. K. Schenck, New York, N. Y. Automatic window-lock. No. 1,357,636; Nov. 2; v. 280; p. 82.
Hoover, Edward M., assignor to The Hoover Manufacturing Company, Anderson, Ind. Lathe-center. No. 1,338,451; Apr. 27; v. 273; p. 724.
Hoover, Ernest M. (See Fahrney, John J., assignor.)
Hoover, Herbert W., assignor to The Hoover Suction Sweeper Company, New Berlin, Ohio. Method of and apparatus for protecting the bearings of suction-cleaners. No. 1,349,765; Aug. 17; v. 277; p. 445.
Hoover, Howard E., Chicago, Ill., assignor to The Hoover Suction Sweeper Company, New Berlin, Ohio. Cleaner. No. 1,328,737; Jan. 20; v. 270; p. 446.
Hoover, Howard E., Chicago, Ill., assignor to Hoover Suction Sweeper Company, New Berlin, Ohio. Cleaner. No. 1,329,048; Jan. 27; v. 270; p. 534.
Hoover, Howard E., Chicago, Ill., assignor to Hoover Suction Sweeper Company, New Berlin, Ohio. Brush for suction-cleaners. No. 1,332,897; Mar. 9; v. 272; p. 189.
Hoover, Howard E., Chicago, Ill., assignor to The Hoover Suction Sweeper Company, New Berlin, Ohio. Suction-sweeper. No. 1,334,757; Mar. 23; v. 272; p. 646.
Hoover, Howard E., Chicago, Ill., assignor to The Hoover Suction Sweeper Company, North Canton, Ohio. Suction-cleaner. No. 1,336,078; Apr. 6; v. 273; p. 71.
Hoover Manufacturing Company, The. (See Hoover, Edward M., assignor.)
Hoover, Ralph W., Armstrongs Mills, Ohio. Fishing-tool for pumps. No. 1,347,041; July 20; v. 276; p. 459.
Hoover Spring Company. (See Little, Edward M., assignor.)
Hoover Suction Sweeper Co., The. (See Hoover, Herbert W., assignor.)
Hoover Suction Sweeper Company, The. (See Hoover, Howard E., assignor.)
Hoover Suction Sweeper Company, The. (See Staples, Albert F., assignor.)
Hoover, Thomas A., Fresno, Calif. Tire-carrier. No. 1,337,911; Apr. 20; v. 273; p. 553.
Hoover, Walter I., Aurora, Ill. Combined steam generator and engine. No. 1,361,330; Dec. 7; v. 281; p. 70.
Hopaidaszka, Frederick, Cobalt, Ontario, Canada. Cradle. No. 1,354,907; Oct. 5; v. 279; p. 92.
Hope, John, Providence, R. I. Ball-bearing screw. No. 1,357,562; Nov. 2; v. 280; p. 68.
Hope, John F., and E. Lambert, Kansas City, Mo. Process of and apparatus for drying wood veneer or other substances. No. 1,353,591; Sept. 21; v. 278; p. 463.
Hope Natural Gas Company. (See Garner, J. B., and Cooper, assignors.)
Hope, Ralph W., and A. Deathridge, Birmingham, England. Casement-fastener. No. 1,334,610; Mar. 23; v. 272; p. 618.
Hope Webbing Company. (See Hofmann, Julius, assignor.)
Hope, William H., Providence, R. I. Roll-container. No. 1,342,909; June 8; v. 275; p. 308.
Hopedale Manufacturing Company. (See Draper, C. H. and Northrop, assignors.)
Hopedale Manufacturing Company. (See Northrop, Jonas, assignor.)
Hopedale Manufacturing Company. (See Wentz, Earle J., assignor.)
Hopffgarten, John H., Boise, Idaho. Signboard. No. 1,363,736; Dec. 28; v. 281; p. 680.
Hopfield, Lewis D., Natoma, Calif. Land-leveling device. No. 1,332,872; Mar. 2; v. 272; p. 133.
Hopkins, Alfred, Boston, Mass. Curtain-stretcher. No. 1,328,995; Jan. 27; v. 270; p. 524.
Hopkins, Arthur T., Cleveland, Ohio, assignor to The Mechanical Rubber Company. Bulb for tank-valves. No. 1,343,890; June 15; v. 275; p. 564.
Hopkins, Burdett P., Clintonville, Wis. Pneumatic ejector-pump. No. 1,333,713; Mar. 16; v. 272; p. 404.
Hopkins, Charles E., Plainfield, N. J. Semi-automatic stereotype-plate casting and cooling machine. No. 1,330,942; Feb. 17; v. 271; p. 400.
Hopkins, Charles E., Plainfield, N. J. Machine for casting and finishing tubular stereotype-plates. No. 1,341,557; May 25; v. 274; p. 754.
Hopkins, Charles E., Plainfield, N. J. Stereotype-finishing apparatus. No. 1,354,751; Oct. 5; v. 279; p. 60.
Hopkins, Charles E., New York, N. Y. Machine for finishing stereotype printing-plates. No. 1,346,601; July 13; v. 276; p. 313.
Hopkins, Edward V. (See Turner, A., and Ripley, assignors.)
Hopkins, Ernest R., Independence, Mo. Dust-collector. No. 1,341,129; May 25; v. 274; p. 671.
Hopkins, Frank H., Somerville, assignor to American Steam Gauge & Valve Manufacturing Company, Boston, Mass. Diaphragm-gage. No. 1,349,884; Aug. 17; v. 277; p. 467.

Digitized by Google

Alphabetical list of patentees—Continued.

Hopkins, Frank H., Somerville, assignor to American Steam Gauge & Valve Manufacturing Company, Boston, Mass. Differential-pressure gage. No. 1,363,415; Dec. 28; v. 281; p. 618.
Hopkins, Gordon B. (See Knee, A. E., and Hopkins.)
Hopkins, Harry A., Norfolk, Va. Tile and mosaic wall-covering. No. 1,359,893; Nov. 23; v. 280; p. 677.
Hopkins, Hubert, assignor to Moon-Hopkins Billing Machine Co., St. Louis, Mo. Calculating-machine. No. 1,336,904; Apr. 13; v. 273; p. 288.
Hopkins, James L., St. Louis, Mo. Street-cleaner. No. 1,328,738; Jan. 20; v. 270; p. 446.
Hopkins, Luther S., Dubuque, Iowa. Shifting device and stop mechanism for talking-machines. No. 1,332,389; Mar. 2; v. 272; p. 31.
Hopkins, Morton K., assignor to J. L. Kennedy, Chicago, Ill. Fusible link. No. 1,356,919; Oct. 26; v. 279; p. 625.
Hopkins, Nevil M., Washington, D. C. Antiskid device for motor-propelled vehicles. No. 1,328,739; Jan. 20; v. 270; p. 447.
Hopkins, Nevil M., Washington, D. C. Antiskid device. No. 1,330,115; Feb. 10; v. 271; p. 176.
Hopkins, Nevil M., Washington, D. C. Apparatus for treating footwear. No. 1,340,544; May 18; v. 274; p. 489.
Hopkins, Nevil M., Washington, D. C., assignor to The Electric Tachometer Corporation, Philadelphia, Pa. Indicator. No. 1,335,238; Mar. 30; v. 272; p. 796.
Hopkins, Ralph Z., Detroit, Mich. Vehicle-shipping apparatus. No. 1,339,890; May 11; v. 274; p. 308.
Hopkins, Ralph Z., Detroit, Mich. Building construction. No. 1,350,805; Aug. 24; v. 277; p. 692.
Hopkins, Richard M., New York, N. Y., assignor to American District Telegraph Company, Jersey City, N. J. Recording system and apparatus. No. 1,331,151; Feb. 17; v. 271; p. 488.
Hopkins, Richard M., New York, N. Y., assignor to American District Telegraph Company, Jersey City, N. J. Signaling system. No. 1,349,961; Aug. 17; v. 277; p. 481.
Hopkins, Richard M., New York, N. Y., assignor to American District Telegraph Company, Jersey City, N. J. Signaling system. No. 1,360,954; Nov. 30; v. 280; p. 953.
Hopkins, Walter G., Buffalo, N. Y., and F. J. Sullivan, assignors to Atlas Bread Company, Boston, Mass. Baker's oven. No. 1,336,782; Apr. 13; v. 273; p. 264.
Hopkinson, Austin, Guide Bridge, England. Method of and apparatus for driving tunnels for military or other purposes in earth or soft rock. No. 1,347,332; July 20; v. 276; p. 516.
Hopkinson, Ernest, New York, N. Y. Making pneumatic-tire casings. No. 1,349,423; Aug. 10; v. 277; p. 304.
Hopkinson, Ernest, New York, N. Y. Apparatus for making pneumatic-tire casings. No. 1,349,424; Aug. 10; v. 277; p. 304.
Hopkinson, Ernest, New York, N. Y. Apparatus for use in vulcanizing pneumatic-tire casings for vehicles. No. 1,349,721; Aug. 17; v. 277; p. 436.
Hopkinson, Joseph, assignor to The Computing Scale Company, Dayton, Ohio. Scale. No. 1,339,759; May 11; v. 274; p. 283.
Hopkinson, Joseph, assignor to The Computing Scale Company, Dayton, Ohio. Table-feeding device for meat-slicers. No. 1,356,284; Oct. 19; v. 279; p. 454.
Hopkinson, Joseph, assignor to The Computing Scale Company, Dayton, Ohio. Knife-guard for meat-slicing machines. No. 1,361,998; Dec. 14; v. 281; p. 251.
Hopp, Geo. (See Hopp, Hermann and L.)
Hopp, Hermann and L., New York, N. Y. Price-marker system. No. 1,346,028; July 6; v. 276; p. 138.
Hopper, Ernest W., Seattle, Wash. Retort. No. 1,331,066; Feb. 17; v. 271; p. 428.
Hopper, John G., Neuilly-sur-Seine, France. Luminous indicating device for the night landing of aeroplanes. No. 1,356,285; Oct. 19; v. 279; p. 454.
Hoppin, Mary G., New York, N. Y. Book-rest. No. 1,334,373; Mar. 23; v. 272; p. 573.
Hopwood, John M. (See Brown, F. H., and Hopwood.)
Hopwood, John M. (See Brown, Francis H., assignor.)
Hopwood, John M. (See Hagan, G. J., and Hopwood.)
Hopwood, John M. (See Peebles, Thomas A., assignor.)
Hopwood, John M., Pittsburgh, Pa. Regulating combustion-furnaces. No. 1,338,922; May 4; v. 274; p. 50.
Hopwood, John M., Dormont, Pa. Controlling combustion by flow and pressure. No. 1,338,923; May 4; v. 274; p. 50.
Hopwood, John M., Dormont, Pa. Controlling combustion by flow and pressure. No. 1,338,924; May 4; v. 274; p. 50.
Hopwood, John M., Dormont, Pa. Controlling combustion by flow and pressure. No. 1,338,925; May 4; v. 274; p. 51.
Hopwood, John M., Dormont, Pa. Controlling combustion by flow and pressure. No. 1,338,926; May 4; v. 274; p. 51.
Hopwood, John M., Dormont, Pa. Controlling combustion by flow and pressure. No. 1,338,927; May 4; v. 274; p. 51.
Hopwood, John M., Dormont, Pa. Regulation and apparatus therefor. No. 1,338,928; May 4; v. 274, p. 51.
Hopwood, John M., Dormont, Pa. Regulating mechanism. No. 1,338,929; May 4; v. 274; p. 51.
Hopwood, John M., Dormont, assignor to D. S. Wolcott, trustee, Sewickley, Pa. Hollow grate-bar. No. 1,330,536; Feb. 10; v. 271; p. 254.
Hopwood, John M., assignor to The Hagan Corporation, Pittsburgh, Pa. Ash-conveyer. No. 1,351,572; Aug. 31; v. 277; p. 905.
Hopwood, John M., Dormont, assignor to The Hagan Corporation, Pittsburgh, Pa. Ash-conveyer. No. 1,351,573; Aug. 31; v. 277; p. 905.
Horgan, Patrick J., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastener-setting machine. No. 1,337,229; Apr. 20; v. 273; p. 423.
Horgan, Stephen H., Orange, N. J. Art and apparatus for making printing-surfaces. No. 1,340,342; May 18; v. 274; p. 450.
Horie, Masaji, Los Angeles, Calif. Camera self-timer. No. 1,333,918; Mar. 16; v. 272; p. 441.
Horine, Clarence, Lima, Ohio. Blow-out patch for pneumatic tires. No. 1,359,380; Nov. 16; v. 280; p. 530.
Horiuchi, Hirosuke, Taiwan, Japan. Water-tube boiler. No. 1,348,824; June 15; v. 275; p. 551.
Horiuchi, Hirosuke, Taihokucho, Taiwan, Japan. Pipe-coupling. No. 1,363,320; Dec. 28; v. 281; p. 601.
Horkave, Michael J., assignor of one-half to S. Blaner, Gary, Ind. Safety gas-valve. No. 1,330,075; Feb. 10; v. 271; p. 168.
Horman, Alfred E., New York, N. Y. Rotary mechanism. No. 1,344,085; June 22; v. 275; p. 666.
Hormel, George W., assignor to G. M. Glenn, Wichita, Kans. Stovepipe-lock. No. 1,345,778; July 6; v. 276; p. 89.
Horn, Aaron C., New York, N. Y. Spot-ground. No. 1,347,633; July 27; v. 276; p. 632.
Horn, Abraham E., New York, N. Y. Treating lime. No. 1,348,494; Aug. 3; v. 277; p. 71.
Horn, Ernest H., assignor to Waterbury Clock Co., Waterbury, Conn. Stem-winding and stem-setting watch. No. 1,354,300; Sept. 28; v. 278; p. 649.
Horn, Guido, Weissensee, near Berlin, Germany. Apparatus for holding the thread tense in circular-braiding machines. No. 1,343,452; June 15; v. 275; p. 476.
Horn & Hardart Company. (See Fritsche, John, assignor.)
Horn, Jeremiah M., Richmond, Ind. Horseshoe. No. 1,357,399; Nov. 2; v. 280; p. 38.
Horn, Joe, Kelvin, Ariz. Rubber-set riffle. No. 1,351,250; Aug. 31; v. 277; p. 841.
Horn, John, Cleveland, Ohio. Automatic reverser. (Reissue.) No. 14,815; Mar. 9; v. 272; p. 321.
Horn, Joseph A., Los Angeles, Calif. Overalls. No. 1,341,506; May 25; v. 274; p. 744.
Horn, Milton J., and W. Watson Roland, Manitoba, Canada. Door-latch. No. 1,354,752; Oct. 5; v. 270; p. 61.
Horn, Morris M., Eau Claire, Wis. Combination-overalls. No. 1,356,864; Oct. 19; v. 279; p. 470.
Horn, Nicholas, Paterson, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,343,509; June 15; v. 275; p. 488.
Horn, Walter M. W., Teplitz, Austria, assignor, by mesne assignments, to The Chemical Foundation, Inc. Ceramic article and making same. No. 1,335,167; Mar. 30; v. 272; p. 734.
Hornbeck, Richard E., Richmond, Calif. Separable holder for buttonhole-bouquets, badges, and emblems. No. 1,359,381; Nov. 16; v. 280; p. 531.
Hornby, Frank, Liverpool, England. Element for use in building constructional toys or models. No. 1,355,975; Oct. 19; v. 279; p. 392.
Horne, Henry M., assignor of one-half to W. J. Sudderth, Sulphur Springs, Tex. Spring-wheel. No. 1,349,339; Aug. 10; v. 277; p. 287.
Horne, James. (See Dawson, A. T., and Horne.)
Horne, James A., Newark, N. J. Resilient tire. No. 1,347,953; July 27; v. 276; p. 696.
Horne, James W., Centerville, Ind. Drive-gate. No. 1,363,737; Dec. 28; v. 281; p. 680.
Horne, Lawrence W. (See Haywood, J. W., and Horne.)
Horne Manufacturing Company. (See Haywood, J. W., and Horne, assignors.)
Horne, Robert A., Toledo, Ohio. Fluid-pressure power means for presses. No. 1,332,840; Mar. 2; v. 272; p. 31.
Horne, Samuel E., Toronto, Ontario, Canada. Combined bumper and fender for automobiles. No. 1,347,699; July 27; v. 276; p. 646.
Horne, Samuel E., E. and A. Lucas, Toronto, Ontario, Canada. Automobile-fender. No. 1,363,738; Dec. 28; v. 281; p. 681.
Horning, Harry L., assignor to Waukesha Motor Co., Waukesha, Wis. Internal-combustion engine. No. 1,338,342; Apr. 27; v. 273; p. 704.
Hornquist, Frank, Mount Jewett, Pa. Rubber sole. No. 1,351,291; Aug. 31; v. 277; p. 849.
Hornsby, Harry H., Chicago, Ill. Means for treating plants. No. 1,331,261; Feb. 17; v. 271; p. 458.
Hornung, Anton N., Los Angeles, Calif. Cold-storage-door adjustable hinge. No. 1,340,862; May 18; v. 274; p. 548.

Digitized by Google

Hornung, Anton N., Los Angeles, Calif. Refrigerator-counter display-case. No. 1,347,161; July 20; v. 276; p. 482.
Hornung, John C., Chicago, Ill. Valve mechanism. No. 1,327,675; Jan. 13; v. 270; p. 210.
Horr, John V., East Cleveland, assignor to A. T. Fischer, Cleveland, Ohio. Display-carton. No. 1,347,273; July 20; v. 276; p. 505.
Horrocks, Henry H., assignor to William Horrocks & Son, Philadelphia, Pa. Tire-carrier. No. 1,338,630; Apr. 27; v. 273; p. 757.
Horrocks, William, & Son. (See Horrocks, Henry H., assignor.)
Horsch, William G. (See Wilson, R. E., and Horsch.)
Horschmann, Mary E., Springfield, Mo. Belt or girdle support. No. 1,328,958; Jan. 27; v. 270; p. 518.
Horsey, Melvin, Crisfield, Md. Advertising device. No. 1,352,368; Sept. 7; v. 278; p. 125.
Horsman, William H., assignor of one-fourth to C. Bancroft, San Francisco, Calif. Slug-lock. No. 1,335,966; Apr. 6; v. 273; p. 50.
Horst, Emil C., San Francisco, Calif. Stem-picker. No. 1,348,139; July 27; v. 276; p. 784.
Horstman, Edward C., St. Louis, Mo. Handle for suit-cases and the like. No. 1,342,677; June 8; v. 275; p. 260.
Horstmann, Ernst E., assignor to F. A. McAllister, Los Angeles, Calif. Concentrator. No. 1,335,504; Mar. 30; v. 272; p. 846.
Horswell, Percy A., assignor, by mesne assignments, to The Cleveland Phonograph Company, Cleveland, Ohio. Talking-machine. No. 1,354,301; Sept. 28; v. 278; p. 649.
Horthy, William A., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Cooling means for internal-combustion engines. No. 1,334,536; Mar. 23; v. 272; p. 604.
Horton, Aaron, Detroit, Mich. Washboard. No. 1,338,930; May 4; v. 274; p. 52.
Horton, Albert J., White Plains, N. Y. Circuit-controller. No. 1,347,859; July 27; v. 276; p. 678.
Horton, Allen A., Highland Park, assignor to Burroughs Adding Machine Company, Detroit, Mich. Recording mechanism. No. 1,334,758; Mar. 23; v. 272; p. 646.
Horton, Allen A., Highland Park, assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 1,359,173; Nov. 16; v. 280; p. 489.
Horton, Bryson D., Detroit, Mich. Electrical switch. No. 1,335,834; Apr. 6; v. 273; p. 24.
Horton, Bryson D., Detroit, Mich. Service and meter-test system and associated apparatus. No. 1,338,180; Apr. 27; v. 273; p. 673.
Horton, Bryson D., Detroit, Mich. Hole-closure. No. 1,345,489; July 6; v. 276; p. 32.
Horton, Bryson D., Detroit, Mich., and W. P. Hammond, Passaic, N. J.; said Hammond assignor to said Horton. Electrical switch. (Reissue.) No. 14,942; Aug. 31; v. 277; p. 935.
Horton, Charles M., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Mechanism for fastening together nested tire-casings. No. 1,327,287; Jan. 6; v. 270; p. 67.
Horton, Charles S., Huntley, Mont. Manifold-heater. No. 1,340,770; May 18; v. 274; p. 531.
Horton, Dock G., Birmingham, Ala. Shade-roller. No. 1,352,410; Sept. 7; v. 278; p. 133.
Horton, Eugene L., San Francisco, Calif. Adjustable shade-hanger. No. 1,359,066; Nov. 16; v. 280; p. 470.
Horton, Frederick W., Hackensack, N. J. Treating celluloid products. No. 1,350,157; Aug. 17; v. 277; p. 519.
Horton, George T. (See Small, Kenneth I., assignor.)
Horton, Jesse D., New York, N. Y. Valve for oil-burners. No. 1,360,955; Nov. 30; v. 280; p. 953.
Horton, Joseph B., Tennille, Ga. Automatic sash-lock. No. 1,341,234; May 25; v. 274; p. 692.
Horton Manufacturing Company, The. (See Thorpe, Samuel T., assignor.)
Horton, Ross W., and J. E. Molesworth, New Athens, Ohio. Mail-bag-transfer mechanism. No. 1,361,729; Dec. 7; v. 281; p. 150.
Horton, Samuel C., assignor of one-half to W. Fleming, St. Paul, Minn. Trunk. No. 1,332,666; Mar. 2; v. 272; p. 94.
Horton, W. R. (See Scott, George W., assignor.)
Horton, Waverley G., Chicago, Ill. Golf-club head. No. 1,361,258; Dec. 7; v. 281; p. 55.
Horvath, Louis, and T. J. Blackburn, Mingo Junction, Ohio. Switch-frog. No. 1,342,332; June 1; v. 275; p. 140.
Horváth, Steven F., Buffalo, N. Y. Bread-knife. No. 1,342,383; June 1; v. 275; p. 150.
Horvitz, Aaron, Chicago, Ill. Burglar-protector. No. 1,345,444; July 6; v. 276; p. 23.
Hoscelt, William J., Chicago, Ill., assignor to National Dump Car Company. Railway-car cover. No. 1,363,195; Dec. 21; v. 281; p. 536.
Hosch, Annie M., administratrix. (See Hosch, Walter E.) (Reissue.)
Hosch, Greene C., assignor to The Measuregraph Company, St. Louis, Mo. Fabric-cutting device. No. 1,343,722; June 15; v. 275; p. 530.
Hosch, Walter E., deceased; A. M. Hosch, administratrix, assignor to The Measuregraph Company, St. Louis, Mo. Calculating apparatus. No. 1,327,044; Jan. 6; v. 270; p. 31.
Hosch, Walter E., deceased; A. M. Hosch, administratrix, assignor to Measuregraph Company, St. Louis, Mo. Fabric measuring and computing machine. No. 1,336,230; Apr. 6; v. 273; p. 99.
Hosch, Walter E., deceased; A. M. Hosch, administratrix, assignor to The Measuregraph Company, St. Louis, Mo. Carriage for counter attachment. No. 1,336,231; Apr. 6; v. 273; p. 100.
Hosch, Walter E., deceased; A. M. Hosch, administratrix, assignor to The Measuregraph Company, St. Louis, Mo. Counter apparatus. No. 1,343,723; June 15; v. 275; p. 531.
Hosch, Walter E., deceased; A. M. Hosch, administratrix, assignor to The Measuregraph Company, St. Louis, Mo. Counter attachment. No. 1,356,625; Oct. 26; v. 279; p. 567.
Hosch, Walter E., deceased, by A. M. Hosch, administratrix, St. Louis, Mo. Cloth-measuring-machine-roller construction. (Reissue.) No. 15,012; Dec. 21; v. 281; p. 539.
Hose, Titus S., Little Falls, N. Y. Hammer. No. 1,362,797; Dec. 12; v. 281; p. 459.
Hoseless Sprinkler Company, The. (See Meise, Harmon D., assignor.)
Hosford, Leo W., Alameda, Calif. Hat-mirror. No. 1,358,551; Nov. 9; v. 280; p. 324.
Hosford, William F., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Wire-tinning machine. No. 1,346,825; July 20; v. 276; p. 416.
Hosier, Abel R., Toronto, Ontario, Canada. Hinge. No. 1,327,431; Jan. 6; v. 270; p. 102.
Hoskwith, George M. (See Komow, N., and Hoskwith.)
Hosmer, Arthur, Chicago, Ill. Overalls. No. 1,345,779; July 6; v. 276; p. 89.
Hosmer, Edward E., New York, N. Y. Spinal traction-chair. No. 1,356,365; Oct. 19; v. 279; p. 470.
Hosse, Ella M., Nashville, Tenn. Window-shade bracket. No. 1,335,114; Mar. 30; v. 272; p. 774.
Hossfeld, Albert, assignor to The Hossfeld Manufacturing Co., Inc., Lewiston, Minn. Manure-loader. No. 1,345,088; June 29; v. 275; p. 926.
Hossfeld Manufacturing Co., The. (See Hossfeld, Albert, assignor.)
Hossie, Frank C., and H. Wild, assignors to General Manufacturing Company, Detroit, Mich. Tool. No. 1,332,898; Mar. 9; v. 272; p. 189.
Host, Lloyd N., Grand Rapids, Mich. Record-placer. No. 1,349,611; Aug. 17; v. 277; p. 414.
Hostler, Edgar D., Tipton, Iowa, assignor of one-half to Hamiel & Mather. Vulcanizer. No. 1,338,569; Apr. 27; v. 273; p. 746.
Hotaling, Omar J., East Orange, N. J. Newspaper-vending machine. No. 1,345,855; July 6; v. 276; p. 103.
Hotchkin, Paul M., assignor to National X-Ray Reflector Co., Chicago, Ill. Headlight-reflector. No. 1,351,169; Aug. 31; v. 277; p. 824.
Hotchkiss, Charles R., Pleasanton, Calif. Traction-wheel. No. 1,361,331; Dec. 7; v. 281; p. 70.
Hotchkiss, Mark S., Binghamton, N. Y. Staking device for road-rails. No. 1,349,340; Aug. 10; v. 277; p. 288.
Hotel Security Checking Company. (See Ducharme, George A., assignor.)
Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Cracker-can. No. 1,357,321; Nov. 2; v. 280; p. 23.
Hoting, Hans C., assignor to Troy Laundry Machinery Co., Ltd., Chicago, Ill. Control mechanism for pressing-machines. No. 1,335,835; Apr. 6; v. 273; p. 25.
Hotka, Frank G., Cudahy, Wis. Glove-sewing machine. No. 1,348,176; Aug. 3; v. 277; p. 9.
Hottenstein, Philip, Gleason, Wis. Sign. No. 1,352,065; Sept. 7; v. 278; p. 68.
Hottinger, Emil, assignor to Hess-Bright Manufacturing Company, Philadelphia, Pa. Expanding arbor. No. 1,346,890; July 20; v. 276; p. 429.
Hottman, Charles W., assignor to C. Offenhauser, Philadelphia, Pa. Mixer and separator. No. 1,349,203; Aug. 10; v. 277; p. 260.
Hottmann, Charles W., assignor to The Hottmann Machine Company, Philadelphia, Pa. Condenser and separator. No. 1,342,810; June 8; v. 275; p. 288.
Hottmann Machine Company, The. (See Hottmann, Charles W., assignor.)
Houck, George H., Tonawanda, N. Y. Wrecking-trailer for automobiles. No. 1,352,898; Sept. 14; v. 278; p. 267.
Houck, John D., Chicago, Ill. Can-opener. No. 1,354,399; Sept. 28; v. 278; p. 669.
Houck, Martin, assignor to Vacuum Heat Manufacturing Company, Minneapolis, Minn. Automatic vaporiser for hot-water heating systems. No. 1,344,894; June 29; v. 275; p. 889.
Houck, William A., Reading, Pa. Cop-mounting. No. 1,353,960; Sept. 28; v. 278; p. 580.
Hough, Frank G., Chicago, Ill. License-plate attachment. No. 1,360,405; Nov. 30; v. 280; p. 846.

Digitized by Google

Alphabetical list of patentees—Continued.

Hough, Samuel, Atco, N. J. Tone-modifier for talking-machines. No. 1,330,469; Feb. 10; v. 271; p. 241.
Hough, Samuel, Atco, N. J., and S. Baader, Philadelphia, Pa. Grease-cup. No. 1,327,289; Jan. 6; v. 270; p. 67.
Hough, Samuel, Atco, N. J., and S. Baader, Philadelphia, Pa. Grease-cup. No. 1,332,440; Mar. 2; v. 272; p. 51.
Houghton, Carley E., Mulberry, Kans. Steam-shovel trip. No. 1,348,719; Aug. 3; v. 277; p. 114.
Houghton, E. F., & Co. (See Peirson, C. H., and Butler, assignors.)
Houghton, Frank B. (See Cobb, Arthur, assignor.)
Houghton, Herbert H., Filer, Idaho. Valved coupling for lubricators. No. 1,342,678; June 8; v. 275; p. 260.
Houghton, Lewis T., Worcester, Mass. Yarn-tension device. No. 1,344,400; June 22; v. 275; p. 728.
Hougland, Albert C., St. Paul, Minn. Milking-machine. No. 1,347,162; July 20; v. 276; p. 482.
Hougland, Clarence W., Seal Beach, Calif. Vegetable-topper. No. 1,349,204; Aug. 10; v. 277; p. 261.
Houk, James P., New Albany, Miss. Railway-crossing. No. 1,341,320; May 25; v. 274; p. 708.
Houk, Louis H., Tulsa, Okla. Automobile-wheel indicator. No. 1,360,111; Nov. 23; v. 280; p. 721.
Houlehan, Arthur E., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Manufacture of lower-boiling hydrocarbons from higher-boiling hydrocarbons. No. 1,334,033; Mar. 16; v. 272; p. 464.
Houlehan, Arthur E., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Production of lower-boiling hydrocarbons from higher-boiling hydrocarbons. No. 1,337,317; Apr. 20; v. 273; p. 441.
Houlehan, Arthur E., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Chlorination process. No. 1,358,851; Nov. 16; v. 280; p. 429.
House, Albert B., Brooklyn, N. Y., assignor to International Motor Company, New York, N. Y. Motor fire-engine. No. 1,357,982; Nov. 9; v. 280; p. 210.
House, Albert B., Brooklyn, assignor to International Motor Company, New York, N. Y. Motor fire-engine. No. 1,362,102; Dec. 14; v. 281; p. 271.
House, Ernest W., assignor of one-fourth to B. M. Allen, Birmingham, Ala. Dimmer for headlights. No. 1,360,529; Nov. 30; v. 280; p. 870.
House, Frank R., Brooklyn, N. Y., assignor, by mesne assignments, to M. Tjader, Darien, Conn. Automatic elevating or lowering apparatus. No. 1,359,993; Nov. 23; v. 280; p. 697.
House Hardware Company. (See House, Thomas M., assignor.)
House, Henry A., Jr., Springfield, Mass., assignor to Wire Wheel Corporation of America, Buffalo, N. Y. Wire wheel. No. 1,353,394; Sept. 21; v. 278; p. 423.
House, Henry A., Jr., Springfield, Mass., assignor to Wire Wheel Corporation of America, Buffalo, N. Y. Forming wire-spoke nipples. No. 1,353,395; Sept. 21; v. 278; p. 423.
House, Henry A., Jr., Buffalo, assignor to Wire Wheel Corporation of America, New York, N. Y. Wire-wheel-truing stand. No. 1,357,056; Oct. 26; v. 279; p. 652.
House, Henry A., Jr., Long Hill, Conn., assignor to Wire Wheel Corporation of America, New York, N. Y. Detachable wheel. No. 1,363,598; Dec. 28; v. 281; p. 654.
House, Horace, Rayl, Calif. Tractor. No. 1,349,065; Aug. 10; v. 277; p. 233.
House, James A., Dyer, Tenn. Cuspidor-caster. No. 1,330,376; Feb. 10; v. 271; p. 224.
House, Thomas M., assignor to House Hardware Company, Richmond, Va. Cutter-mounting for paper-roll holders. No. 1,333,022; Mar. 9; v. 272; p. 213.
House, Thomas M., assignor of one-half to A. S. Kellam, Richmond, Va. Foldable basket and handle therefor. No. 1,354,253; Sept. 28; v. 278; p. 640.
Houser, Arthur M., Chicago, Ill., and W. B. Morris, Philadelphia, Pa., assignors to Crane Company, Chicago, Ill. Valve-operating mechanism. No. 1,361,060; Dec. 7; v. 281; p. 16.
Household Utilities Corporation. (See Heideman, Fred J., assignor.)
Houseman, Harold E., assignor to Standard Machine Company, Philadelphia, Pa. Circular-knitting machine. No. 1,359,249; Nov. 16; v. 280; p. 504.
Houseman, Harold E., assignor to Standard Machine Company, Philadelphia, Pa. Clamp and cutter actuating mechanism. No. 1,359,250; Nov. 16; v. 280; p. 504.
Houskeeper, William G., Philadelphia, Pa., assignor to Western Electric Company, Incorporated, New York, N. Y. Transmitter. No. 1,328,996; Jan. 27; v. 270; p. 525.
Houskeeper, William G., assignor to Western Electric Company, Incorporated, New York, N. Y. Leading-in wire. No. 1,357,498; Nov. 2; v. 280; p. 56.
Housley, Robert B., Indianapolis, Ind. Washout-plug. No. 1,346,496; July 13; v. 276; p. 293.
Houston, Albert L., *et al.* (See Lambeth, Acey L., assignor.)
Houston, Constance M. M., Papanui, Christchurch, New Zealand. Typewriting-machine. No. 1,347,333; July 20; v. 276; p. 517.
Houston Fountain Pen Company. (See Borbeck, Martin, assignor.)
Houston, George D., Rushville, Ill. Disk cultivator. No. 1,335,057; Mar. 30; v. 272; p. 763.
Houston, Percival T., assignor to Alphaero Engines (Foreign Patents) Limited, London, England. Internal-combustion engine. No. 1,339,760; May 11; v. 274; p. 283.
Houston, Percival T., assignor to Alphaero Engines (Foreign Patents) Limited, London, England. Internal-combustion engine. No. 1,355,744; Oct. 12; v. 279; p. 307.
Houston, Roger A. (See McMahon, F., and Houston.)
Hout, Frank W., (See Watson, William F., assignor.)
Hover, Charles F., Conrad, Mont. Mechanical movement. No. 1,351,753; Sept. 7; v. 278; p. 7.
Hovis, Charles W., Clintonville, Pa. Door-locking means. No. 1,350,226; Aug. 17; v. 277; p. 533.
Hovland, Henry B., Zumbrota, Minn. Apparatus for metallurgical and other purposes. No. 1,345,596; July 6; v. 276; p. 53.
Hovland, Henry B., Duluth, and G. B. Frankforter, Minneapolis, Minn.; said Frankforter assignor to said Hovland. Treating metalliferous materials. No. 1,335,000; Mar. 30; v. 272; p. 753.
Hovland, Henry B., Duluth, and G. B. Frankforter, Minneapolis, Minn.; said Frankforter assignor to said Hovland. Metallurgical process. No. 1,335,001; Mar. 30; v. 272; p. 753.
Howard, A. B., *et al.* (See Nesmith, Ralph A., assignor.)
Howard, Albert L., Montello, Mass. Apparatus for teaching projection. No. 1,327,474; Jan. 6; v. 270; p. 110.
Howard, Albertson, assignor of one-third to M. F. Lane and one-third to F. T. Peterman, Indianapolis, Ind. Storage-battery case. No. 1,354,302; Sept. 28; v. 278; p. 650.
Howard, Allen F. (See Leonard, C. L., and Howard.)
Howard, Bloomfield H., Washington, D. C., and E. J. Turner, Pittsburgh, Pa. Ingot-mold. No. 1,335,685; Mar. 30; v. 272; p. 881.
Howard, Charles B., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cutting sheet material. No. 1,340,225; May 18; v. 274; p. 428.
Howard, Charles C., Toronto, Ontario, Canada. Motor for automobile-washers. No. 1,362,420; Dec. 14; v. 281; p. 333.
Howard, Charles H., Saugus, assignor to Paper Products Machine Company, Boston, Mass. Paper bag or container. No. 1,333,714; Mar. 16; v. 272; p. 404.
Howard, Charles H., Saugus, assignor to Paper Products Machine Company, Boston, Mass. Paper-reinforcing machine. No. 1,337,702; Apr. 20; v. 273; p. 513.
Howard, Charles H., Saugus, assignor to Paper Products Machine Company, Boston, Mass. Paper-reinforcing machine. No. 1,341,981; June 1; v. 275; p. 72.
Howard, Charles H., Saugus, assignor to Paper Products Machine Company, Boston, Mass. Bag. No. 1,363,196; Dec. 21; v. 281; p. 536.
Howard, Charles W., Albion, N. Y. Toy vehicle. No. 1,361,584; Dec. 7; v. 281; p. 122.
Howard, Earl H., assignor to Gilfillan Bros. Smelting & Refining Company, Los Angeles, Calif. Universal joint for spot-lights. No. 1,344,344; June 22; v. 275; p. 717.
Howard, Elsie R., executrix. (See Howard, Elverton I.)
Howard, Elverton I., deceased, Westfield, N. Y., E. R. Howard, executrix; A. Thompson executor of said E. R. Howard, deceased; said A. Thompson, executor, assignor to Primolite Company, Indianapolis, Ind. Lens-holder for headlights. No. 1,344,694; June 29; v. 275; p. 851.
Howard, Elverton I., deceased, Westfield, N. Y., E. R. Howard, executrix; A. Thompson executor of said E. R. Howard, deceased; said A. Thompson, executor, assignor to Primolite Company, Indianapolis, Ind. Lens-holder for headlights. No. 1,344,695; June 29; v. 275; p. 851.
Howard, Emmett M., assignor to Eject-O-File Company, High Point, N. C. Talking-machine. No. 1,334,374; Mar. 23; v. 272; p. 573.
Howard, Emmett M., Merchantville, N. J., assignor to Haag Cabinet Company, Philadelphia, Pa. Combined phonographic-disk-record and talking-machine cabinet. No. 1,335,967; Apr. 6; v. 273; p. 50.
Howard, Ernest E., Kansas City, Mo. Rail-lock. No. 1,332,179; Feb. 24; v. 271; p. 650.
Howard, Frank E., Lamanda Park, Calif. Garment-supporter for hosiery. No. 1,353,592; Sept. 21; v. 278; p. 463.
Howard, Frank W. (See Cannon, G. B., Jr., and Howard.)
Howard, Frank W., New York, N. Y. Raincoat. No. 1,358,852; Nov. 16; v. 280; p. 429.
Howard, Hermon E., assignor to Weller Manufacturing Co., Chicago, Ill. Belt conveyer. No. 1,363,469; Dec. 28; p. 281; p. 628.
Howard, Ira T., Nappanee, Ind. Anticreeper. No. 1,343,563; June 15; v. 275; p. 499.
Howard, James R. (See Piercy, J. W., and Howard.)
Howard, James H., Jacksonville, Fla. Dispensing-can closure. No. 1,343,825; June 15; v. 275; p. 551.
Howard, Jesse C., Columbus, Ohio. Pumping device. No. 1,358,153; Nov. 9; v. 280; p. 244.
Howard, Jesse R., assignor of one-fourth to E. M. Lannes, Chicago, Ill. Portable building. No. 1,354,753; Oct. 5; v. 279; p. 61.
Howard, John A., Sr., West New Brighton, N. Y. Cooking utensil. No. 1,344,511; June 22; v. 275; p. 750.

Digitized by Google

Howard, John A., Sr., West New Brighton, N. Y., assignor to Camward Engineering Co., Inc. Window-cleaner. No. 1,357,869; Nov. 2; v. 280; p. 128.
Howard, Lawrence W., Manchester, N. H. Draft-controller for smoke-conduits. No. 1,328,565; Jan. 20; v. 270; p. 415.
Howard, Lemuel F., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. No. 1,341,982; Jan. 1; v. 275; p. 72.
Howard, Merton W., assignor to A. E. Little Company, Lynn, Mass. Machine for inserting plugs. No. 1,329,710; Feb. 3; v. 271; p. 68.
Howard, Monroe S., Waukon, Iowa. Player-piano-control apparatus. No. 1,339,848; May 11; v. 274; p. 300.
Howard, Obadiah D., and H. W. Keep, St. Paul, Minn. Comb for drying and straightening hair. No. 1,349,425; Aug. 10; v. 277; p. 304.
Howard, Otis W., assignor to Deere & Company, Moline, Ill. Cultivator-wheel adjustment. No. 1,346,318; July 13; v. 276; p. 258.
Howard, Raymond M., Detroit, Mich. Variable-pitch propeller. No. 1,337,133; Apr. 13; v. 273; p. 331.
Howard, Silas S. (See Davis, James F., assignor.)
Howard, Stanley R., Boston, assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Sheet-feeding mechanism. No. 1,335,336; Mar. 30; v. 272; p. 815.
Howard, Stanley R., Boston, assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Carton opening and feeding mechanism. No. 1,342,047; June 1; v. 275; p. 85.
Howard, Thomas. (See Stohn, A. G., and Howard.)
Howard, William D. M., Boston, Mass. Automatic variable-speed power-transmission mechanism. No. 1,335,168; Mar. 30; v. 272; p. 784.
Howard, William D. M., Boston, Mass. Automatic automotive transmission. No. 1,335,169; Mar. 30; v. 272; p. 784.
Howard, William S., Hazlehurst, Miss. Toilet-paper holder. No. 1,336,140; Apr. 6; v. 273; p. 83.
Howarth, Arthur. (See King, Richard J., assignor.)
Howarth, Harry A. S., Pittsburgh, Pa. Crank-pin-lubricating means. No. 1,363,789; Dec. 28; v. 281; p. 691.
Howarth, Harry A. S., assignor to A. Kingsbury, Pittsburgh, Pa. Thrust-bearing. No. 1,331,108; Feb. 17; v. 271; p. 430.
Howarth, Harry A. S., assignor to A. Kingsbury, Pittsburgh, Pa. Thrust-bearing. No. 1,342,384; June 1; v. 275; p. 150.
Howarth, Mark, Padgate, Warrington, England. Means for drawing wires and rods. No. 1,355,745; Oct. 12; v. 279; p. 307.
Howcottt, H. A. W., *et al.* (See Stephens, James W. T., assignor.)
Howden, George W., Holly, Mich. Electric generating plant. No. 1,355,672; Oct. 12; v. 279; p. 293.
Howden, James, & Company. (See Hume, James H., assignor.)
Howe, Albert A., Terrill, Iowa. Nursery-seat. No. 1,339,891; May 11; v. 274; p. 308.
Howe, Albert A., Terril, Iowa. Folding commode-chair. No. 1,342,715; June 8; v. 275; p. 268.
Howe, Andrew F., assignor, by mesne assignments, to Howe Safety Appliance Company, Granite City, Ill. Safety-guard for rotary grinding-machines. No. 1,351,908; Sept. 7; v. 278; p. 39.
Howe Baumann Balloon Co. (See Dodge and Leatherow, assignors.)
Howe, Charles W., Healdton, Okla. Lightning-arrester. No. 1,342,111; June 1; v. 275; p. 98.
Howe, Clinton W., Chicago, Ill. Pawl-and-ratchet mechanism. No. 1,352,603; Sept. 14; v. 278; p. 207.
Howe, Dale E., assignor of one-half to J. M. Newton, Sioux Falls, S. D. Toy-furniture set. No. 1,328,921; Jan. 27; v. 270; p. 511.
Howe, Earl W., Norfolk, Va. Collapsible steam-chest and oven. No. 1,328,152; Jan. 13; v. 270; p. 300.
Howe, Earl W., Norfolk, Va. Letter-outliner. No. 1,331,262; Feb. 17; v. 271; p. 458.
Howe, Earl W., Norfolk, Va. Griddle. No. 1,342,444; June 8; v. 275; p. 215.
Howe, Frank D. (See Bloesinger, A., and Howe.)
Howe, Harry, Bellevue, Pa., assignor to Pressed Steel Car Company, Pittsburgh, Pa. Metallic annealing-box. No. 1,360,639; Nov. 30; v. 280; p. 893.
Howe, James F., Worcester, Mass. Rope-sling. No. 1,334,244; Mar. 16; v. 272; p. 502.
Howe, James M., Cleveland Heights, assignor to The S. W. H. Engineering Company, Cleveland, Ohio. Tractor. No. 1,347,163; July 20; v. 276; p. 483.
Howe, James M., assignor to Grant Motor Car Corporation, Cleveland, Ohio. Packless joint. No. 1,354,192; Sept. 28; v. 278; p. 627.
Howe Lamp & Mfg. Co. (See Nelson, Arvid, assignor.)
Howe, Olaf L., Missoula, Mont. Air-motor. No. 1,342,811; June 8; v. 275; p. 288.
Howe, Olaf L., Missoula, Mont. Gun attachment. No. 1,347,509; July 27; v. 276; p. 608.
Howe, Paul J., Ridgewood, N. J. Apparatus for piercing timber. No. 1,346,126; July 13; v. 276; p. 220.
Howe, Paul J., Ridgewood, N. J., assignor to Western Union Telegraph Company, New York, N. Y. Adjustable condenser. No. 1,350,279; Aug. 17; v. 277; p. 543.
Howe, Paul J., Ridgewood, N. J., assignor to Western Union Telegraph Company, New York, N. Y. Adjustable rheostat. No. 1,350,280; Aug. 17; v. 277; p. 543.
Howe, Perley G., Anderson, Ind. Motor-vehicle gearing. No. 1,363,875; Dec. 28; v. 281; p. 708.
Howe Rubber Corporation. (See Schmidt, John, assignor.)
Howe Safety Appliance Company. (See Howe, Andrew F., assignor.)
Howe Scale Company. (See Souander, Andrew, assignor.)
Howe, Solon G., Detroit, Mich. Sand-base road. No. 1,355,833; Oct. 19; v. 279; p. 365.
Howe, Winthrop K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Speed-responsive device. No. 1,334,902; Mar. 23; v. 272; p. 674.
Howe, Winthrop K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. System for governing railway traffic. No. 1,354,254; Sept. 28; v. 278; p. 640.
Howe, Winthrop K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Automatic train-control system. No. 1,360,219; Nov. 23; v. 280; p. 741.
Howe, Winthrop K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Automatic train-control system. No. 1,360,749; Nov. 30; v. 280; p. 914.
Howe, Winthrop K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. System for automatically controlling railway-trains. No. 1,360,750; Nov. 30; v. 280; p. 914.
Howell, Albert S., assignor to Bell & Howell Company, Chicago, Ill. Photographic-printing apparatus. (Reissue.) No. 14,799; Feb. 3; v. 271; p. 131.
Howell, Albert S., assignor to Bell & Howell Company, Chicago, Ill. Safety and automatic adjustment device for film-splicing apparatus. No. 1,334,903; Mar. 23; v. 272; p. 675.
Howell, Archie H., Sacramento, Calif. Axle-shaft bearing. No. 1,363,118; Dec. 21; v. 281; p. 520.
Howell, Austin W., Hanover, Ohio. Chair. No. 1,327,475; Jan. 6; v. 270; p. 111.
Howell, Clarence S., assignor, by mesne assignments, of one-half to L. McGuire, New York, N. Y. Concrete-pile construction. No. 1,352,128; Sept. 7; v. 278; p. 80.
Howell, Davis P., Modesto, Calif. System for collecting water. No. 1,342,679; June 8; v. 275; p. 261.
Howell, Edward B., Butte, Mont. Non-skid chain. No. 1,329,838; Feb. 3; v. 271; p. 93.
Howell, Edward D., Springfield, assignor to Tuttle & Bailey Mfg. Co., New York, N. Y. Register or grill. No. 1,348,360; Aug. 3; v. 277; p. 45.
Howell, Frank J., Stoneham, Mass. Dauber. No. 1,361,861; Dec. 14; v. 281; p. 223.
Howell, George W., Los Angeles, Calif. Rock-drill or impact engine. No. 1,348,280; Aug. 3; v. 277; p. 30.
Howell, Harry H., Hope, Ark. Cultivator. No. 1,358,743; Nov. 16; v. 280; p. 407.
Howell, Harry H., Hope, Ark. Fencepost. No. 1,359,704; Nov. 23; v. 280; p. 640.
Howell, Henry M., *et al.* (See Krickel, Louis H., assignor.)
Howell, Kenneth B., Millburn, N. J., assignor to The Barrett Company. Removing fumes from materials. No. 1,348,140; July 27; v. 276; p. 734.
Howell, Lorenzo E., Farmington, Ill. Steering-knuckle. No. 1,356,984; Oct. 26; v. 279; p. 638.
Howell, Robert R., Minneapolis, Minn. Device for grinding-mills. No. 1,328,834; Jan. 27; v. 270; p. 493.
Howell, Samuel M., Zanesville, Ohio. Metallurgical furnace. No. 1,337,703; Apr. 20; v. 273; p. 513.
Howell, Samuel M., Zanesville, Ohio. Metallurgical furnace. (Reissue.) No. 14,914; July 13; v. 276; p. 355.
Howell, Squire S., Des Moines, Iowa. Signal device for automobiles. No. 1,347,274; July 20; v. 276; p. 505.
Howell, Sylvester S., assignor to United Chemical & Organic Products Co., Chicago, Ill. Means for separating mixtures. No. 1,355,477; Oct. 12; v. 279; p. 256.
Howenstine, Charles C., Highland Park, Mich. Light-meter. No. 1,361,999; Dec. 14; v. 281; p. 251.
Hower, James H., New Staunton, Pa. Spring-bed. No. 1,341,714; June 1; v. 275; p. 19.
Howes, George W., assignor to The Beckwith Company, Dowagiac, Mich. Combination solid-fuel and gas range or cooking-stove. No. 1,355,338; Oct. 12; v. 279, p. 229.
Howes, Willis E., assignor of one-fourth to B. & D. Manufacturing Company, Rock Island, Ill., and one-fourth to H. E. Winters, Davenport, Iowa. Hobby-cycle. No. 1,347,099; July 20; v. 276; p. 470.
Howitt, Herbert G., and W. J. Prichard, Merthyr Tydfil, Wales, and J. Evans, Eltham, London, England. Internal-combustion rotary engine and the like. No. 1,354,189; Sept. 28; v. 278; p. 626.
Howk, John S., Kansas City, Mo. Spring-controller. No. 1,355,555; Oct. 12; v. 279; p. 271.
Howland Bag and Paper Company. (See Smith, Charles F., assignor.)
Howland, Ephraim, Pontiac, Mich. Army-trailer. No. 1,327,326; Jan. 6; v. 270; p. 83.
Howland, Henry S., *et al.* (See Van Vleet, Charles W., assignor.)

Digitized by Google

Alphabetical list of patentees—Continued.

Howland, Joseph L., Cleveland, Ohio. Cuff-protector. No. 1,360,530; Nov. 30; v. 280; p. 871.
Howlett, Grayle W., assignor to The Research Laboratories Company, Toledo, Ohio. Container for alkaline substances. No. 1,355,976; Oct. 19; v. 279; p. 392.
Howlett, Isaac C., Bangs, Tex. Tire-oven. No. 1,345,188; June 29; v. 275; p. 946.
Howser, Robert C., Indianola, Iowa. Agricultural machine. No. 1,345,189; June 29; v. 275; p. 946.
Hoy, John E., assignor of one-half to R. P. Place, Midland, Mich. Puzzle. No. 1,345,490; July 6; v. 276; p. 32.
Hoya, Ferdinand A., Milwaukee, Wis. Tire-tread attachment. No. 1,357,322; Nov. 2; v. 280; p. 24.
Höyberg, Hans M., Frederiksberg, near Copenhagen, Denmark. Ascertaining the quantity of fat in milk and cream. No. 1,329,183; Jan. 27; v. 270; p. 560.
Høyberg, Hans M., Frederiksberg, near Copenhagen, Denmark. Method of and solution for ascertainment of the quantity of fat in cream. No. 1,357,168; Oct. 26; v. 279; p. 673.
Hoynack, Nick, Caledonia, Ontario, Canada. Agricultural implement. No. 1,343,564; June 15; v. 275; p. 499.
Hoyt, Daniel, East Orange, assignor to The National Lock Washer Company, Newark, N. J. Curtain-fixture. No. 1,335,968; Apr. 6; v. 273; p. 50.
Hoyt, Jennie A., assignor to S. E. Allen, H. D. Rives, and F. Carroll, Los Angeles, Calif. Swing-spout measuring-can. No. 1,330,537; Feb. 10; v. 271; p. 254.
Hoyt, Le Roy W., Stamford, Conn. Internally-heated throttle-valve for hydrocarbon engines. No. 1,354,484; Oct. 5; v. 279; p. 8.
Hoyt, Ray S., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Impedance-equalizer for use with transformers. No. 1,333,111; Mar. 9; v. 272; p. 280.
Hoyt, Royal E., assignor to S. E. Allen, H. D. Rives, and F. Carroll, Los Angeles, Calif. Swing-spout oil-can. No. 1,330,538; Feb. 10; v. 271; p. 254.
Hoyte, Edward B., Nashville, Tenn. Control device for internal-combustion engines. No. 1,338,017; Apr. 27; v. 273; p. 643.
Hruska, Frank J., assignor to Le Febure Ledger Company, Cedar Rapids, Iowa. Cabinet. No. 1,330,267; Feb. 10; v. 271; p. 204.
Hruska, Frank J., assignor to Le Febure Ledger Company, Cedar Rapids, Iowa. Binder-tray. No. 1,358,853; Nov. 16; v. 280; p. 429.
Hruza, William. (See Bennet, G. Henry, assignor.)
Hubback, Charles E. (See Clark, N. M., and Hubback.)
Hubback, Malcolm H., Seattle, Wash. Hydraulically-operated loading device. No. 1,356,149; Oct. 19; v. 279; p. 427.
Hubbard, Albert S., New York, assignor to Gould Storage Battery Company, Depew, N. Y. Storage battery. No. 1,363,648; Dec. 28; v. 281; p. 663.
Hubbard, Albert S., assignor to Gould Storage Battery Company, New York, N. Y. Storage battery. No. 1,363,649; Dec. 28; v. 281; p. 663.
Hubbard, Albert S., New York, assignor to Gould Storage Battery Company, Depew, N. Y. Storage battery. No. 1,363,650; Dec. 28; v. 281; p. 664.
Hubard, Archibald B., Ogontz, Pa. Antifriction roller and ball-bearing. No. 1,351,754; Sept. 7; v. 278; p. 8.
Hubbard, Arthur O., Minneapolis, Minn. Washing-machine. No. 1,355,045; Oct. 5; v. 279; p. 118.
Hubbard, Burtt J., Kokomo, Ind. Universal joint. No. 1,362,000; Dec. 14; v. 281; p. 251.
Hubbard, Burtt J., Kokomo, Ind., assignor of one-half to J. T. Powell, Pittsburgh, Pa. Loading-skid. No. 1,341,904; June 1; v. 275; p. 57.
Hubbard, Charles W., Weston, Mass. Twine-holder. No. 1,344,274; June 22; v. 275; p. 703.
Hubbard, Fred, Humboldt, Ariz. Brake for conveyers. No. 1,327,559; Jan. 6; v. 270; p. 127.
Hubbard, James W., Eau Claire, Wis. Combined signal and emergency train-stopping device. No. 1,361,862; Dec. 14; v. 281; p. 223.
Hubbard, Morris V., San Jose, Calif. Stretcher. No. 1,338,774; May 4; v. 274; p. 24.
Hubbard, Norman, Elizabeth, N. J., assignor of one-half to P. M. Stewart, New York, N. Y. Water-heater. No. 1,349,571; Aug. 17; v. 277; p. 406.
Hubbard, Richard W., Ashtabula, Ohio. Hinge. No. 1,346,029; July 6; v. 276; p. 139.
Hubbard, Walter L., Ferris, Ill. Mechanism for adjusting propeller-pitch. No. 1,350,312; Aug. 24; v. 277; p. 596.
Hubbe, Paul W. (See Engelmann, Carl E. A. and B. W.)
Hubbell, Clarence W., Naugatuck, Conn., assignor to The Goodyear's India Rubber Glove Manufacturing Company. Boot. No. 1,349,572; Aug. 17; v. 277; p. 406.
Hubbell, Harvey, Incorporated. (See Newton, William J., assignor.)
Hubbell, Harvey, Bridgeport, Conn. Electric-switch mechanism. No. 1,352,604; Sept. 14; v. 278; p. 207.
Hubbell, Henry S., Ashburnham, Mass. Chuck. No. 1,338,775; May 4; v. 274; p. 24.
Hubbell, Henry S., assignor to T. R. Almond Manufacturing Company, Ashburnham, Mass. Chuck. No. 1,328,627; Jan. 20; v. 270; p. 426.
Hubbell, John E., New York, assignor of one-third to L. Wilputte and two-thirds to A. A. Wilputte, New Rochelle, N. Y. Door-handling machine. No. 1,357,057; Oct. 26; v. 279; p. 652.
Hubbell, John E., New York, assignor of one-third to L. Wilputte and two-thirds to A. A. Wilputte, New Rochelle, N. Y. Door-handling machine. No. 1,357,058; Oct. 26; v. 279; p. 652.
Hubbell, Lindley D., Hartford, Conn. Firearm. No. 1,352,267; Sept. 7; v. 278; p. 106.
Hubble, Joel W., Jacksonville, Ill. Tire-chain fastener. No. 1,362,314; Dec. 14; v. 281; p. 313.
Bubble, Leonard. (See Hollarn, E. F., Hubble, Everton, and Wilcox.)
Huber, Charles E., Morrison, Ill. Can-marking machine. No. 1,359,807; Nov. 23; v. 280; p. 660.
Huber, Emil, assignor to Essex Motors, Detroit, Mich. Carburetor. No. 1,344,696; June 29; v. 275; p. 851.
Huber, Joseph H., Peru, Ind. Work-support for calculating-machines. No. 1,335,239; Mar. 30; v. 272; p. 797.
Huber Mfg. Co. (See Crane, Henry H., assignor.)
Huber, Sigmund V. (See Williamson, A. G., and Huber.)
Hubert, Romeo, Lowell, Mass. Robe-holder. No. 1,355,604; Oct. 12; v. 279; p. 280.
Hubka, Stanley, Narka, Kans. Luggage-carrier. No. 1,354,829; Oct. 5; v. 279; p. 76.
Hubner, Anthony, Bloomingdale, N. J., assignor of one-half to L. J. Lichtenberger, New York, N. Y. Paper-toy amusement device. No. 1,347,042; July 20; v. 276; p. 460.
Hubshman, Louis. (See Morgan, William J., assignor.)
Huckabee, Otis A. and W. T., Texarkana, Ark. Tractor frame and carriage. No. 1,363,977; Dec. 28; v. 281; p. 727.
Huckabee, Otis A. and W. T., Texarkana, Ark. Tractor. No. 1,363,978; Dec. 28; v. 281; p. 727.
Huckabee, William T. (See Huckabee, Otis A. and W. T.)
Huckle, Oscar R., Joliet, Ill. Carbureter. No. 1,340,956; May 25; v. 274; p. 637.
Huculak, Hryhoryj, Clearing, Ill. Baby-carriage. No. 1,350,806; Aug. 24; v. 277; p. 692.
Huda, Frank, Perth Amboy, N. J. Non-skid for wheels. No. 1,340,048; May 11; v. 274; p. 337.
Hudd, Alfred E., Melbourne, and G. H. Wion, Brighton, Victoria, Australia. Electrical point-detector for railways. No. 1,343,133; June 8; v. 275; p. 352.
Huddleston, Loyd E, Kansas City, Mo. Burglar-proof sash-lock. No. 1,353,533; Sept. 21; v. 278; p. 450.
Hudgins, Iverson D., Kirkwood, assignor of one-third to W. I. Hobbs, Gainesville, Ga. Water-motor. No. 1,329,244; Jan. 27; v. 270; p. 571.
Hudson, Albert E., Calgary, Alberta, Canada. Spark-arrester. No. 1,347,374; July 20; v. 276; p. 525.
Hudson, Charles H. (See Pinkerton, Edward E., assignor.)
Hudson, Clark. (See Byrne, John, assignor.)
Hudson, David W., assignor to Hudson-Sharp Machine Company, Green Bay, Wis. Machine for perforating, slitting, and rewinding paper. No. 1,328,431; Jan. 20; v. 270; p. 389.
Hudson, Edwin B., Middletown, Ohio. Pneumatic wheel. No. 1,344,401; June 22; v. 275; p. 728.
Hudson, Frank W., assignor to H. E. Johnstone, Bakersfield, Calif. Game. No. 1,340,612; May 18; v. 274; p. 502.
Hudson, George W., Lancaster, Ohio. Combined table and ironing-board. No. 1,336,433; Apr. 13; v. 273; p. 197.
Hudson, Henry, Malvern, Victoria, Australia. Insert for concrete and the like, to receive nails and other fasteners, or building elements. No. 1,348,801; Aug. 3; v. 277; p. 129.
Hudson, Joseph E. (See Hudson, Richard W. and J. E.)
Hudson Metal Bed Co. (See Meadoff, Abraham S., assignor.)
Hudson Motor Car Company. (See Baits, S. G., and Fekete, assignors.)
Hudson Motor Specialties Company. (See Hudson, William F., assignor.)
Hudson, Richard W. and J. E., Toledo, Ohio. Twist-drill machine. No. 1,342,963; June 8; v. 275; p. 318.
Hudson-Sharp Machine Company. (See Hudson, David W., assignor.)
Hudson, Walter G., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Explosive composition. No. 1,329,525; Feb. 3; v. 271; p. 35.
Hudson, Warren R., assignor to The Troy Wagon Works Company, Troy, Ohio. Coupling mechanism for vehicles. No. 1,358,955; Nov. 16; v. 280; p. 449.
Hudson, William F., assignor to Hudson Motor Specialties Company, Philadelphia, Pa. Radius-rod truss. No. 1,336,353; Apr. 6; v. 273; p. 123.
Hudson, William F., assignor to Hudson Motor Specialties Company, Philadelphia, Pa. Muffler attachment for motor-vehicles. No. 1,336,354; Apr. 6; v. 273; p. 123.
Hudson, William F., assignor to Hudson Motor Specialties Company, Philadelphia, Pa. Propulsion connection for motor-vehicles. No. 1,341,615; May 25; v. 274; p. 765.
Hudson, William F., assignor to Hudson Motor Specialties Company, Philadelphia, Pa. Propulsion connection for motor-vehicles. No. 1,341,616; May 25; v. 274; p. 765.

Hudson, William F., assignor to Hudson Motor Specialties Company, Philadelphia, Pa. Propulsion connection for motor-vehicles. No. 1,358,079; Nov. 9; v. 280; p. 230.
Hudson, William H., Wyomissing Hills, assignor to Gray Iron Foundry Company, Reading, Pa. Concrete-mixer. No. 1,355,478; Oct. 12; v. 279; p. 256.
Huebner-Bleistein Patents Company. (See Huebner, William C., assignor.)
Huebner, Julius. (See Clayton, R. H., Huebner, and Williams.)
Huebner, Otto E., Brooklyn, N. Y. Means for establishing auxiliary convection in liquid-containers. No. 1,350,728; Aug. 24; v. 277; p. 678.
Huebner, Otto E., assignor to Industrial Research Corporation, Toledo, Ohio. Starting and ignition system. No. 1,361,259; Dec. 7; v. 281; p. 55.
Huebner, William C., assignor to Huebner-Bleistein Patents Company, Buffalo, N. Y. Electromagnetic clutch and brake. No. 1,334,759; Mar. 23; v. 272; p. 646.
Huelsdonk, William A., San Francisco, Calif. Combination excavator, crusher, and dredger. No. 1,340,445; May 18; v. 274; p. 470.
Huestis, Frederick W. (See Rice, Aubrey L., assignor.)
Huey, George W., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Starting device for electric motors. No. 1,343,212; June 15; v. 275; p. 431.
Huey, Harold I., Saylesville, R. I. Window-closing device. No. 1,348,181; July 27; v. 276; p. 732.
Huey, Sidney B., deceased; F. C. Burkhalter administrator, Wichita, Kans. Pressure-clamp for vulcanizing apparatus. No. 1,354,754; Oct. 5; v. 279; p. 61.
Huff, Albert J. (See Dohner, B. E., and Huff.)
Huff, Furman, Marysville, Calif. Sickle-bar head for mowing-machines. No. 1,341,212; May 25; v. 274; p. 687.
Huff, Gilbert L., St. Louis, Mo. Coin-controlled mechanism. No. 1,343,999; June 22; v. 275; p. 650.
Huff, Gilbert L., Holdenville, Okla. Coin-controlled mechanism. No. 1,344,086; June 22; v. 275; p. 667.
Huff, John W., Flagstaff, Ariz. Car-stake. No. 1,358,154; Nov. 9; v. 280; p. 244.
Huff, Russell, assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,339,512; May 11; v. 274; p. 236.
Huff, William D., La Fayette, La., assignor of one-half to J. J. Connolly, Roanoke, Va. Electric water-heater. No. 1,343,134; June 8; v. 275; p. 352.
Huffer, Arthur J., Philadelphia, Pa. Window-lock. No. 1,351,650; Aug. 31; v. 277; p. 920.
Huffman, Charles C., *et al.* (See Block, David J., assignor.)
Huffman, Edwin E., and O. W. Cowgill; said Cowgill assignor to New Standard Adding Machine Company, St. Louis, Mo. Depth-indicating device. No. 1,332,341; Mar. 2; v. 272; p. 31.
Huffman, John W., Marion, Mich. Dumping-bed for wagons. No. 1,347,375; July 20; v. 276; p. 525.
Huffman, Louis, Toronto, Ontario, Canada. Knob-lock. No. 1,358,211; Nov. 9; v. 280; p. 255.
Huffman, Orla L., Weatherford, Tex. Tire-filler. No. 1,335,115; Mar. 30; v. 272; p. 774.
Huffman, Orla L., Weatherford, Tex. Pump-operating mechanism. No. 1,354,557; Oct. 5; v. 279; p. 22.
Huffman, Orla L., Weatherford, Tex. Power-transmitting device. No. 1,362,700; Dec. 21; v. 281; p. 439.
Huffman Recording Pump Company, The. (See Hatmaker, William T., assignor.)
Huffnagle, John, Germantown, Pa. Photographic-film developing apparatus. No. 1,359,382; Nov. 16; v. 280; p. 531.
Hufschmidt, Louis A., San Francisco, Calif. Lighting-fixture bowl-hook. No. 1,327,598; Jan. 6; v. 270; p. 134.
Hufschmidt, Louis A., San Francisco, Calif. Index and memorandum pad holder. No. 1,347,222; July 20; v. 276; p. 494.
Hug, George A. (See Baron, Robert R., assignor.)
Hugg, Edmund C., Irvington, N. J. Dumping mechanism for autotrucks. No. 1,334,375; Mar. 23; v. 272; p. 574.
Huggins, Charlie T., Hemingway, S. C. Cultivator. No. 1,328,740; Jan. 20; v. 270; p. 447.
Huggins, Edward M. (See Macdonald, A. S., and Huggins.)
Huggins, Merion J., New York, N. Y. Automobile-speed-control mechanism. No. 1,357,563; Nov. 2; v. 280; p. 68.
Huggins, Merion J., assignor to Automotive Development Co., Inc., New York, N. Y. Speed-controlling mechanism for automobiles. No. 1,326,935; Jan. 6; v. 270; p. 10.
Huggins, Merion J., and W. C. Dressler, said Huggins assignor to Automotive Development Co., Inc., New York, N. Y. Speed-controlling mechanism for automobiles. No. 1,354,303; Sept. 28; v. 278; p. 650.
Huggins, Milton R., Bethel, Ohio. Letter and package tying device. No. 1,359,383; Nov. 16; v. 280; p. 531.
Huggins, Ulysses S., Chicago, Ill. Game. No. 1,346,826; July 20; v. 276; p. 417.
Hughel, Clarence, Indianapolis, Ind. Dispensing-pump. No. 1,339,626; May 11; v. 274; p. 258.
Hughes, A. H., and H. S. Curren, Rochester, N. Y. Fuel-tank for automobiles. No. 1,360,406; Nov. 30; v. 280; p. 846.
Hughes, A. H., and H. S. Curren, assignors to Hughes & Curren Company, Inc., Rochester, N. Y. Vehicle-top. No. 1,360,407; Nov. 30, v. 280; p. 846.
Hughes, Alexander, assignor to H. Hughes and Son, Limited, London, England. Sextant. No. 1,339,342; May 4; v. 274; p. 128.
Hughes, Arthur J. (See Starling, S. G., and Hughes.)
Hughes, Arthur S., Mansfield, Ohio. Gravity-hinge. No. 1,327,045; Jan. 6; v. 270; p. 82.
Hughes, Benjamin A., Colorado Springs, Colo. Ore-concentrating table. No. 1,343,266; June 15; v. 275; p. 440.
Hughes, Charles J., Summerville, S. C. Automobile-signal. No. 1,350,998; Aug. 24; v. 277; p. 728.
Hughes & Curren Company. (See Hughes, A. H., and Curren.)
Hughes, Edward. (See Hughes, George, assignor.)
Hughes, Emily W., administratrix. (See Hughes, Johnson.)
Hughes, Frederick G., assignor to The New Departure Manufacturing Company, Bristol, Conn. Clutch mechanism. No. 1,341,983; June 1; v. 275; p. 72.
Hughes, George, assignor of one-half to E. Hughes, St. Louis, Mo. Resilient wheel. No. 1,327,096; Jan. 6; v. 270; p. 41.
Hughes Granite Company, The. (See Hughes, W. E., and King, assignors.)
Hughes, Harry, Saxonville, assignor to Roxbury Carpet Company, Boston, Mass. Tuft-pile-fabric loom. No. 1,362,625; Dec. 21; v. 281; p. 424.
Hughes, Harry, Saxonville, assignor to Roxbury Carpet Company, Boston, Mass. Tuft-pile-fabric loom. No. 1,363,790; Dec. 28; v. 281; p. 691.
Hughes, Harry F. (See Klocke, William H., assignor.)
Hughes, Henry, and Son. (See Hughes, Alexander, assignor.)
Hughes, Henry & Son Limited. (See Starling, S. G., and Hughes, assignors.)
Hughes, Henry A., London, and T. Y. Baker, Slough, England. Sextant. No. 1,337,912; Apr. 20; v. 273; p. 553.
Hughes, Henry T., Co. (See Sherman, William T., assignor.)
Hughes, Howard R., Houston, Tex. Rotary boring-drill. No. 1,327,913; Jan. 13; v. 270; p. 254.
Hughes, Howard R., Houston, Tex. Tunneling-machine. No. 1,333,491; Mar. 9; v. 272; p. 361.
Hughes, Howard R., Houston, Tex. Cross-roller drill-bit. No. 1,348,419; Aug. 3; v. 277; p. 57.
Hughes, Howard R., Houston, Tex. Regulating the load on rotary drills. No. 1,357,564; Nov. 2; v. 280; p. 68.
Hughes, James H. (See Wiedeman, G. J., and Hughes.)
Hughes, James W., Philadelphia, Pa. Offset stylus-arm. No. 1,349,205; Aug. 10; v. 277; p. 261.
Hughes, James W., Haddon Heights, N. J., assignor to Hughes-Lippincott Company. Coin-controlling register. No. 1,336,628; Apr. 13; v. 273; p. 234.
Hughes, James W., Haddon Heights, N. J., assignor to Hughes-Lippincott Company. Apparatus for delivering articles through a partition. No. 1,362,798; Dec. 21; v. 281; p. 459.
Hughes, Joe A., and T. E. Herington, Mallard, Iowa. Umbrella. No. 1,344,132; June 22; v. 275; p. 675.
Hughes, John J., Brooklyn, N. Y. Combined pen and pencil. No. 1,334,860; Mar. 23; v. 272; p. 666.
Hughes, Johnson, deceased; E. W. Hughes, administratrix, Philadelphia, Pa. Electrode-holder. No. 1,335,895; Apr. 6; v. 273; p. 36.
Hughes, Johnson, deceased; E. W. Hughes, administratrix, Philadelphia, Pa. Electric furnace. No. 1,339,393; May 11; v. 274; p. 213.
Hughes, Lawrence D., Oklahoma, Okla. Resilient tire. No. 1,343,172; June 8; v. 275; p. 359.
Hughes, Lionel W., Port Said, Egypt. Packing-case. No. 1,345,856; July 6; v. 276; p. 103.
Hughes-Lippincott Company. (See Hughes, James W., assignor.)
Hughes, Morris E., Clare, Iowa. Vehicle lifter or jack. No. 1,335,969; Apr. 6; v. 273; p. 50.
Hughes, Robert R., Jr., New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine. No. 1,329,245; Jan. 27; v. 270; p. 571.
Hughes, Robert R., Jr., New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Ruffling mechanism for sewing-machines. No. 1,334,611; Mar. 23; v. 272; p. 618.
Hughes, Robert R., Jr., Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Seam. No. 1,344,000; June 22; v. 275; p. 650.
Hughes, Robert R., Jr., Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Trimming mechanism for sewing-machines. No. 1,353,534; Sept. 21; v. 278; p. 451.
Hughes, Robert R., Jr., Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Trimming mechanism for sewing-machines. No. 1,363,652; Dec. 28; v. 281; p. 664.
Hughes, Sugar H., Okmulgee, Okla. Spark-plug. No. 1,360,956; Nov. 30; v. 280; p. 954.
Hughes, Thomas J., Seattle, Wash. Collapsible rivet-mold. No. 1,353,813; Sept. 21; v. 278; p. 506.

Digitized by Google

Hughes, Thomas J., assignor of one-third to S. J. Humes, Seattle, and one-third to J. P. Patten, Elva, Wash. Cable tightener and puller. No. 1,358,552; Nov. 9; v. 280; p. 324.
Hughes Tool Company. (See Simmons, John T., assignor.)
Hughes, William, Maplewood, and O. R. Bieler, Montvale, N. J.; said Bieler assignor to said Hughes. Box-making machine. No. 1,335,686; Mar. 30; v. 272; p. 881.
Hughes, William, Taunton, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Eyeleting-machine. No. 1,361,863; Dec. 14; v. 281; p. 224.
Hughes, William E., and J. B. King, assignors to The Hughes Granite Company, Clyde, Ohio. Ventilating and drainage system. No. 1,339,761; May 11; v. 274; p. 284.
Hughes, William E., and J. B. King, assignors to The Hughes Granite Company, Clyde, Ohio. Wall construction for mausoleums. No. 1,340,656; May 18; v. 274; p. 510.
Hughes, William E., and J. B. King, assignors to The Hughes Granite Company, Clyde, Ohio. Mausoleum construction. No. 1,342,812; June 8; v. 275; p. 288.
Hughes, William E., Greenville, S. C., assignor to R. O. Brooks, Atlanta, Ga. Brush. No. 1,350,652; Aug. 24; v. 277; p. 662.
Hughes, William M., Arncliffe, near Sydney, New South Wales, Australia. Liquid-seal check-valve. No. 1,362,535; Dec. 14; v. 281; p. 356.
Hugo, John. (See Noyes, Harry W., assignor.)
Huguley, William C., assignor to The Specialty Products Company, Newark, N. J. Babbitting apparatus. No. 1,331,769; Feb. 24; v. 271; p. 574.
Huhn, John H., Morgantown, W. Va. Loading-machine. No. 1,356,985; Oct. 26; v. 279; p. 638.
Hula, Joseph, Irving, Kans. Container-holder. No. 1,345,857; July 6; v. 276; p. 104.
Hulbert, Edwin F., assignor to National Paper Can Company, South Norwalk, Conn. Paper package and closure therefor. No. 1,343,724; June 15; v. 275; p. 531.
Hulbert, Edwin F., assignor to National Paper Can Company, Milwaukee, Wis. Sheet-feeding machine. No. 1,349,133; Aug. 10; v. 277; p. 246.
Hulbert, Homer B., Springfield, Mass. Pipe-organ. No. 1,333,715; Mar. 16; v. 272; p. 404.
Hulburd, De Forest, Chicago, Ill., assignor to Elgin National Watch Company. Wrist-watch case and clamp. No. 1,326,934; Jan. 6; v. 270; p. 10.
Hulder, Joseph P., New York, N. Y., assignor to Auto Pneumatic Action Company. Player-piano mechanism. No. 1,341,425; May 25; v. 274; p. 728.
Huldt, Sven. (See Berglund, Edward S., assignor.)
Hulen, Harris, and C. F. Brown, assignors to Huttig Mill Work Company, Kansas City, Mo. Silo-door. No. 1,331,770; Feb. 24; v. 271; p. 574.
Hulett, Elzie H., Michigan City, Ind. Water-glass. No. 1,339,561; May 11; v. 274; p. 245.
Hulett, Frank A., South Londonderry, Vt. Marble-game board. No. 1,339,343; May 4; v. 274; p. 126.
Hulett, Frank E. (See Hulett, George H. and F. E.)
Hulett, George H. and F. E., Cleveland, Ohio. System and apparatus for loading vessels. No. 1,327,327; Jan. 6; v. 270; p. 83.
Huling, Clint H., El Paso, Tex. Hat shape retainer and loss preventing device. No. 1,333,314; Mar. 9; v. 272; p. 267.
Hullt, John A., assignor to Automatic Electric Company, Chicago, Ill. Selective signaling system. No. 1,356,626; Oct. 26; v. 279; p. 567.
Hull, Arthur B., Gasport, N. Y. Spray-gun. No. 1,343,780; June 15; v. 275; p. 542.
Hull, Edmund M., Buffalo, N. Y. Loading-spout. No. 1,358,446; Nov. 9; v. 280; p. 304.
Hull, Edward T., New York, N. Y. Phonograph attachment. No. 1,359,599; Nov. 23; v. 280; p. 619.
Hull, George S., Columbus, Ind. Quick-setting mechanism. No. 1,336,839; Apr. 13; v. 278; p. 275.
Hull, John I., Schenectady, N. Y., assignor to General Electric Company. Reactance-shunt for commutator-machines. No. 1,328,519; Jan. 20; v. 270; p. 406.
Hull, Matthew R., assignor to Rex Manufacturing Company, Connersville, Ind. Roof-deck for vehicles. No. 1,346,203; July 13; v. 276; p. 234.
Hull, Matthew R., assignor to Rex Manufacturing Company, Connersville, Ind. Combined sunshade and visor for vehicle-windshields. No. 1,363,510; Dec. 28; v. 281; p. 637.
Hull, Meda V., assignor to La Meda Mfg. Company, Chicago, Ill. Cosmetic. No. 1,332,190; Feb. 24; v. 271; p. 653.
Hull, Salmon Mfg. Co. (See Salmon, Edward W., Jr., assignor.)
Hull, Samuel P., Yonkers, and E. A. Everett, New York, N. Y. Screw-padlock. No. 1,363,599; Dec. 28; v. 281; p. 654.
Hull, Wallace R., Pittsburgh, Pa. Machine for assembling bolts and nuts. No. 1,358,553; Nov. 9; v. 280; p. 324.
Hull, William F. (See Kormann, Frederick A., assignor.)
Hullinger, Lynus E., Brooklyn, assignor to Pomeroy Company, New York, N. Y. Artificial-limb lock. No. 1,346,092; July 6; v. 276; p. 151.
Hulse, Frederick W., Northfield, near Birmingham, England, assignor of one-half to Armes Automatique Lewis Societe Anonyme, Antwerp, Belgium. Magazine. No. 1,330,873; Feb. 17; v. 271; p. 386.
Hulse, Frederick W., Northfield, near Birmingham, England, assignor of one-half to Armes Automatiques Lewis, Antwerp, Belgium. Cartridge-extractor for fire-arms. No. 1,352,515; Sept. 14; v. 278; p. 190.
Hulse, Horace D. (See Schaefer, P. C., Hulse, and Livingstone.)
Hulsey, Elie B., *et al.* (See Herrington, John A. A., assignor.)
Hult, Rolf H., Hyltebruk, Sweden. Boiling indirectly. No. 1,337,704; Apr. 20; v. 273; p. 514.
Hultberg, John E., Warren, Pa. Vise. No. 1,329,602; Feb. 3; v. 271; p. 48.
Hultberg, John E., Warren, Pa. Tool-handle. No. 1,353,043; Sept. 14; v. 278; p. 295.
Hultenheim, Fredrik G., San Francisco, Calif. Fluid-brake for motor-vehicles. No. 1,338,302; Apr. 27; v. 273; p. 696.
Hultgren, Axel G. E., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Method of and means for hardening bodies having the shape of solids of revolution. No. 1,342,112; June 1; v. 275; p. 98.
Hultgren, Axel G. E., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Method of and means for heating balls. No. 1,342,171; June 1; v. 275; p. 110.
Hultin, Enoch P., Flint, Mich. Pump for inflating pneumatic tires. No. 1,349,671; Aug. 17; v. 277; p. 426.
Hulting, Charles E. (See Perry, N. G., Hulting, and Thompson.)
Hultman, Charles G., Cranston, and H. Wachenheimer, Providence, R. I., assignors to Wachenheimer Bros. Inc., Providence, R. I. Clasp. No. 1,342,048; June 1; v. 275; p. 85.
Hultman, Gustaf H., Stockholm, Sweden. Manufacturing chrome alum. No. 1,343,725; June 15; v. 275; p. 531.
Hultman, Ivar, Neglinge, Saltsjöbaden, near Stockholm, Sweden. Shears for cutting sheet metal, wire, bolts, &c. No. 1,354,755; Oct. 5; v. 279; p. 61.
Hultquist, Charles A., Los Angeles, Calif. Fluid-operated tool. No. 1,342,540; June 8; v. 275; p. 234.
Humason, Charles B., Youngstown, Ohio. Oil-burning forge. No. 1,363,979; Dec. 28; v. 281; p. 727.
Humason, Granville A., Houston, Tex. Pump-piston. No. 1,327,914; Jan. 13; v. 270; p. 255.
Humason, Granville A., Houston, Tex., assignor to Humason Roller Bit Company. Drill-bit. No. 1,337,913; Apr. 20; v. 273; p. 553.
Humason, Granville A., assignor of one-half to J. W. Parker, Houston, Tex. Pump. No. 1,345,491; July 6; v. 276; p. 32.
Humason, Granville A., assignor of one-half to J. W. Parker, Houston, Tex. Swivel for rotary drills. No. 1,354,756; Oct. 5; v. 279; p. 61.
Humason Roller Bit Company. (See Humason, Granville A., assignor.)
Humbert, Richard E., Montclair, N. J. Toy. No. 1,336,434; Apr. 13; v. 273; p. 197.
Hume, James H., assignor to James Howden & Company, Limited, Glasgow, Scotland. Furnace-front. No. 1,331,152; Feb. 17; v. 271; p. 438.
Hume, James H., assignor to James Howden & Company, Limited, Glasgow, Scotland. Furnace-front. No. 1,331,153; Feb. 17; v. 271; p. 439.
Hume, James H., assignor to James Howden & Company, Limited, Glasgow, Scotland. Steam-generator fitted with superheater. No. 1,337,653; Apr. 20; v. 273; p. 503.
Hume, James H., assignor to James Howden & Company, Limited, Glasgow, Scotland. Furnace. No. 1,338,136; Apr. 27; v. 273; p. 665.
Hume, Walter R., Marleyrnong, Victoria, Australia. Means for joining the abutting ends of pipes. No. 1,357,870; Nov. 2; v. 280; p. 128.
Humes, Guy B., Chicago, Ill. Appliance for horn musical instruments. No. 1,350,409; Aug. 24; v. 277; p. 615.
Humes, Samuel J., *et al.* (See Hughes, Thomas J., assignor.)
Humfrey, John C. W., London, England. Notched-bar-testing machine. No. 1,356,821; Oct. 26; v. 279; p. 606.
Huml, Vincent G. (See Kanta and Huml.)
Humm, Hans, Brooklyn, N. Y. Match-container. No. 1,335,970; Apr. 6; v. 278; p. 51.
Hummel, Orville C., Nauvoo, Ill. Roll-film carrier. No. 1,340,957; May 25; v. 274; p. 638.
Hump Hairpin Manufacturing Company, The. (See Goldberg, Solomon H., assignor.)
Humphreville, Frank, Atlantic City, N. J. Toy rocker-carriage. No. 1,354,400; Sept. 28; v. 278; p. 669.
Humphrey, Alfred H., New York, N. Y. Gas-stove. No. 1,358,155; Nov. 9; v. 280; p. 244.
Humphrey, Clen S., Brooklyn, N. Y. Box-opening device. No. 1,334,245; Mar. 16; v. 272; p. 503.
Humphrey, Frank L., Enid, Okla. Clothes-basket carrier. No. 1,328,163; Jan. 13; v. 270; p. 302.
Humphrey Gas Pump Company. (See Trump, E. N., and Friedrichs, assignors.)

Digitized by Google

Humphrey Gas Pump Company. (See Vernon, Wilfred F., assignor.)
Humphrey, Harland. (See Klein, P., and Humphrey.)
Humphrey, Harry D., *et al.* (See Umphrey, Henry, assignor.)
Humphrey, James L. (See Earley, J. A., and Humphrey.)
Humphrey, Robert A., Giltner, Nebr. Shield for cultivators. No. 1,357,092; Oct. 26; v. 279; p. 659.
Humphrey, Starling H. (See Korff, F. H., and Humphrey.)
Humphrey, Starling H., New York, and F. H. Korff, Brooklyn, N. Y. Expansion-reamer. No. 1,349,968; Aug. 17; v. 277; p. 483.
Humphrey, William A., Sparta, Wis. Wrench. No. 1,362,867; Dec. 21; v. 281; p. 472.
Humphreys, Charles A., Bluefield, W. Va., assignor to Pittsburgh Filter Manufacturing Company, Pittsburgh, Pa. Loss-of-head gage. No. 1,338,504; Apr. 27; v. 273; p. 734.
Humphreys, Edward C. (See Archer, C. E., and Humphreys.)
Humphreys, Robert E., Whiting, Ind., and W. M. Burton, assignors to The Standard Oil Company, Chicago, Ill. Distillation of petroleum-oils. No. 1,343,674; June 15; v. 275; p. 521.
Humphreys, William L., Sarasota, Fla. Dispensing-counter. No. 1,339,652; May 11; v. 274; p. 263.
Humphris, Frank, Boscombe, England. Construction of adjustable spanners, wrenches, vises, clamps, pipe-cutters, pipe-grips, and like tools. No. 1,343,826; June 15; v. 275; p. 551.
Humphrys, Sidney E., Tolbert, Tex. Railway-signal. No. 1,331,434; Feb. 17; v. 271; p. 490.
Hundley, Charles E., Olney, Ill. Draft attachment. No. 1,363,791; Dec. 282; v. 281; p. 691.
Huneycutt, Charles F., assignor of one-half to C. F. Bretholl, Charlotte, N. C. Sheet-guide for printing-presses. No. 1,342,113; June 1; v. 275; p. 98.
Hunkins, William S., Los Angeles, Calif. Fastening device. No. 1,354,485; Oct. 5; v. 279; p. 8.
Hunsaker, Alonzo O., and J. C. Woodmancy, assignors to Stableford Truck Manufacturing Co., Chicago, Ill. Vehicle-spring. No. 1,359,705; Nov. 23; v. 280; p. 640.
Hunsberger, Herbert E., Bay City, Mich. Resilient wheel. No. 1,330,943; Feb. 17; v. 271; p. 400.
Hunsinger, John, Sr., assignor to A. M. Leibowitz, Detroit, Mich. Sinew and tendon extracting device. No. 1,338,452; Apr. 27; v. 273; p. 724.
Hunstad, Clarence J., Guttenberg, Iowa. Leak-proof oil-washer. No. 1,339,762; May 11; v. 274; p. 284.
Hunt, Alma C., New York, N. Y. Blood-removing and etherizing apparatus. No. 1,349,766; Aug. 17; v. 277; p. 444.
Hunt, Andrew M., Berkeley, and D. E. Fogg, Oakland, Calif. Apparatus for cooling and scrubbing gases. No. 1,327,599; Jan. 6; v. 270; p. 184.
Hunt, Arthur T., Chicago, Ill. Switch-cabinet. No. 1,332,555; Mar. 2; v. 272; p. 73.
Hunt, C. Howard, Pen Company. (See Marcq, Ludovic, assignor.)
Hunt, Charles T., assignor to The Hunt Trouble Light Company, Lima, Ohio. Extensible-light container. No. 1,363,417; Dec. 28; v. 281; p. 618.
Hunt, David N., Atlanta, Ga., assignor of one-half to J. M. Hunt, Fulton County, Ga. Check for picker-sticks. No. 1,356,366; Oct. 19; v. 279; p. 470.
Hunt, Edgar N. (See Hilton, Roland C., assignor.)
Hunt, George G., assignor to The Independent Harvester Company, Plano, Ill. Sweep-rake. No. 1,354,558; Oct. 5; v. 279; p. 22.
Hunt, Harry B., Foremost, Alberta, Canada. Sectional bookcase. No. 1,352,195; Sept. 7; v. 278; p. 92.
Hunt, Helm, Ferris & Company. (See Ferris, Henry L., assignor.)
Hunt, Helm, Ferris & Company. (See Ferris, Howard J., assignor.)
Hunt, Henry, Kokomo, Ind. Sharpener. No. 1,329,971; Feb. 3; v. 271; p. 117.
Hunt, Henry, Devon, and R. Schaab, Bridgeport, assignor of one-third to P. F. Zeidler, Bridgeport, Conn. Bottle opener and eloser. No. 1,338,224; Apr. 27; v. 273; p. 682.
Hunt, Homer, Springfield, Mass. Brush. No. 1,352,869; Sept. 7; v. 278; p. 125.
Hunt, Horace S., Jackson, Mich. Device for cleaning screens. No. 1,357,499; Nov. 2; v. 280; p. 56.
Hunt, J. Mallory. (See Hunt, David N., assignor.)
Hunt, James A., Mammoth, W. Va. Folding plant and shrubbery support. No. 1,361,464; Dec. 7; v. 281; p. 98.
Hunt, John, Dumont, Colo. Climbing-elevator device. No. 1,348,138; July 27; v. 276; p. 733.
Hunt, John R., assignor to International Moving Picture & Film Company, Indianapolis, Ind. Adjustable aperture-plate. No. 1,357,983; Nov. 9; v. 280; p. 211.
Hunt, Logan G. (See Funk, T. B., and Hunt.)
Hunt, Louis J., Sandycroft, Wales. Alternating-current dynamo-electric machine adapted for synchronous working. No. 1,328,520; Jan. 20; v. 270; p. 406.
Hunt, Nannie K., Adolphus, Ky. Finger-ring and photo-mount for the same. No. 1,362,095; Dec. 21; v. 281; p. 496.
Hunt, Nathaniel H., assignor of one-half to W. G. Kent, London, England. Means for measuring the velocity of a moving body. No. 1,352,809; Sept. 14; v. 278; p. 249.
Hunt, Ocie, *et al.* (See Hall, James L., assignor.)
Hunt, Ormond E., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,348,997; Aug. 10; v. 277; p. 220.
Hunt, Ormond E., assignor to Packard Motor Car Company, Detroit, Mich. Windshield. No. 1,355,079; Oct. 5; v. 279; p. 125.
Hunt, Otto H., Walla Walla, Wash. Clamp. No. 1,352,810; Sept. 14; v. 278; p. 250.
Hunt, Ozello R., assignor to Cushion Spring Engineering Corporation, Chicago, Ill. Spring structure. No. 1,343,565; June 15; v. 275; p. 499.
Hunt, Ozello R., assignor to Cushion Spring Engineering Corporation, Chicago, Ill. Spring structure. No. 1,345,780; July 6; v. 276; p. 89.
Hunt, Paul B., West Allis, assignor to H. C. Case, Milwaukee, Wis. Fuel-mixer. No. 1,361,260; Dec. 7; v. 281; p. 55.
Hunt, Sylvester H., Milwaukee, Wis. Ore-loader. No. 1,334,454; Mar. 23; v. 272; p. 589.
Hunt, Thomas S. (See Grupe, R. M., and Hunt.)
Hunt Trouble Light Company, The. (See Hunt, Charles T., assignor.)
Hunt, Wilfred, Hillhead, Glasgow, Scotland. Rotary mechanism for transmission of power at varying speeds. No. 1,360,216; Nov. 23; v. 280; p. 741.
Hunt, William E., assignor to Ottumwa Box Car Loader Co., Ottumwa, Iowa. Metallic belt conveyer. No. 1,330,116; Feb. 10; v. 271; p. 176.
Hunt, William H. (See Macintosh and Hunt.)
Hunt, William H., National City, Calif. Gas-engine crank-case-charging device. No. 1,360,217; Nov. 23; v. 280; p. 741.
Hunter, Albert, Portland, Oreg. Holder-on. No. 1,341,870; May 25; v. 274; p. 718.
Hunter, Alfred R., Hartford, Conn., assignor to Hartford-Fairmont Company, Canajoharie, N. Y. Glass-working machine. No. 1,353,115; Sept. 14; v. 278; p. 308.
Hunter, Andrew R., Welbeck, near Worksop, England. Crutch. No. 1,331,109; Feb. 17; v. 271; p. 431.
Hunter, Annie C., Plant City, Fla. Curtain and shade bracket. No. 1,354,974; Oct. 5; v. 279; p. 105.
Hunter, Annie M., Akron, Ohio. Footrest. No. 1,344,402; June 22; v. 275; p. 728.
Hunter Arms Company, The. (See Stafford, Francis A., assignor.)
Hunter, Arthur G., Sherman, Tex. Nut and pipe wrench. No. 1,359,894; Nov. 23; v. 280; p. 678.
Hunter Fan and Motor Co. (See Parker, Linus J., assignor.)
Hunter, Fred, *et al.* (See Ballantine, William, assignor.)
Hunter, Frederick W. (See Wells, P. L., and Hunter.)
Hunter Gas Engine and Development Company, The. (See Kershaw, Edwin T., assignor.)
Hunter, George C., New Haven, Conn. Eraser attachment for pencils. No. 1,363,876; Dec. 28; v. 281; p. 708.
Hunter, George E., Elgin, assignor to Elgin National Watch Company, Chicago, Ill. Shipping-box for watch-movements. No. 1,331,263; Feb. 17; v. 271; p. 458.
Hunter, James W., Mobile, and E. Williamson, Selma, Ala. Automobile-lock. No. 1,351,651; Aug. 31; v. 277; p. 920.
Hunter, Marcus C. I., Glasgow, Scotland. Construction and arrangement of motor-vehicles. No. 1,361,864; Dec. 14; v. 281; p. 224.
Hunter, Percy E., Pittsburgh, Pa. Metal supporting and transferring table. No. 1,352,811; Sept. 14; v. 278; p. 250.
Hunter, Philip V., Purley, and J. R. Beard, Benton, England. Protection of electric distribution systems. No. 1,339,394; May 11; v. 274; p. 213.
Hunter, Rudolph M., Philadelphia, Pa, assignor to H. W. Butterworth & Sons Company. Apparatus for feeding and guiding cloth. No. 1,339,826; May 11; v. 274; p. 296.
Hunter, Samuel, Bellevue, Pa. Electric routing-machine. No. 1,352,196; Sept. 7; v. 278; p. 92.
Hunter, Thomas B., San Francisco, Calif. Preparing and packing raisins. No. 1,341,057; May 25; v. 274; p. 658.
Hunter, William, Blackpool, England. Force-pump for liquids. No. 1,362,315; Dec. 14; v. 281; p. 313.
Huntington, Henry J., *et al.* (See Lippitt, Elihu, assignor.)
Huntington, Paul O., Brighton, assignor to H. M. Sawyer & Sons, Cambridge, Mass. Raincoat. No. 1,335,505; Mar. 30; v. 272; p. 846.
Huntington, Robert, Rosebank, N. Y. Spherical triangle calculator. No. 1,338,730; May 4; v. 274; p. 15.
Huntley Manufacturing Co. (See Morse, Theodore F., assignor.)
Huntley Manufacturing Company. (See Leonard, George S., assignor.)
Huntoon, Charles F., Chicago, Ill. Brake-beam strut. No. 1,340,168; May 18; v. 274; p. 418.
Huntoon, Charles F., Chicago, Ill. Brake-beam. No. 1,354,650; Oct. 5; v. 279; p. 41.

Digitized by Google

Huntoon, William C., Providence, R. I. Die for extruding collapsible tubes. No. 1,348,007; July 27; v. 276; p. 707.
Hunsicker, Walter W., Mansfield, Ohio. Method and apparatus for preventing and removing obstructions in fluid-pressure systems. No. 1,336,905; Apr. 13; v. 273; p. 288.
Hunsicker, Walter W., assignor to The Ohio Brass Company, Mansfield, Ohio. Slack-adjuster. No. 1,336,522; Apr. 13; v. 273; p. 214.
Hunsicker, Walter W., assignor to The Ohio Brass Company, Mansfield, Ohio. Slack-adjuster. No. 1,341,321; May 25; v. 274; p. 708.
Hunsicker, Walter W., assignor to The Ohio Brass Company, Mansfield, Ohio. Automatic slack-adjuster. No. 1,347,634; July 27; v. 276; p. 633.
Hunsicker, Walter W., assignor to The Ohio Brass Company, Mansfield, Ohio. Trolley-wire support. No. 1,355,605; Oct. 12; v. 279; p. 280.
Hunsiker, Benjamin F., assignor to J. F. Hunsiker, Minneapolis, Minn. Cigarette-case. No. 1,354,042; Sept. 28; v. 278; p. 597.
Hunsiker, Julius F. (See Hunsiker, Benjamin F., assignor.)
Hupp, Albert, Washington, D. C. Automatic transmission mechanism. No. 1,358,447; Nov. 9; v. 280; p. 304.
Hupp, Albert, assignor to Hupp Automatic Mail Exchange Company, Washington, D. C. Railway mail-crane. No. 1,354,559; Oct. 5; v. 279; p. 22.
Hupp, Albert, Washington, D. C., assignor to Hupp Automatic Mail Exchange Company, a Corporation of Delaware. Car-door-operating mechanism. No. 1,363,980; Dec. 28; v. 281; p. 727.
Hupp Automatic Mail Exchange Company. (See Hupp, Albert, assignor.)
Hupp, Incorporated. (See Hupp, Irvin, assignor.)
Hupp, Irvin, Chicago, Ill., assignor to Hupp, Incorporated. Flexible coupling. No. 1,334,537; Mar. 23; v. 272; p. 604.
Hupp, Irvin, assignor to Flexo Motive Corporation, Chicago, Ill. Transmission mechanism. No. 1,338,303; Apr. 27; v. 273; p. 696.
Hupp Motor Car Corporation. (See Watts, Frank E., assignor.)
Hurd, Benjamin W., San Francisco, Calif. Gear-pump. No. 1,346,960; July 20; v. 276; p. 443.
Hurd, Enos A., Woodward, Okla. Lifting-handle for storage batteries. No. 1,349,457; Aug. 10; v. 277; p. 310.
Hurez, Eugène, Petit Couronne, near Grand Couronne, France. Regenerative furnace. No. 1,333,716; Mar. 16; v. 272; p. 404.
Hurff, Harry L., Peoria, Ill. Gage attachment for wood-working-machines. No. 1,342,218; June 1; v. 275; p. 119.
Hurford, Ross H., Canton, Ohio. Ice-cutting machine. No. 1,336,563; Apr. 13; v. 273; p. 222.
Huriburt, Edward N., assignor to Taylor Instrument Companies, Rochester, N. Y. Metastatic thermometer. No. 1,350,158; Aug. 17; v. 277; p. 519.
Huribut, Clarke S., Philadelphia, Pa. Easel. No. 1,343,054; June 8; v. 275; p. 336.
Huribut, Frank A., Kansas City, Mo. Thermostatic control for cooling mediums. No. 1,348,420; Aug. 3; v. 277; p. 57.
Hurley, Frank J. (See Graham, Louis O., assignor.)
Hurley, Justin T., New York, N. Y. Adding-machine. No. 1,345,781; July 6; v. 276; p. 89.
Hurley Machine Company. (See Fisher, Alva J., assignor.)
Hurley, Neil C. (See Wood, James J., assignor.)
Hurlimann, Ernst. (See Schneider, J., Hurlimann, and Billon.)
Hurlimann, Ernst, Zuchwil, near Solothurn, assignor to the Firm Scintilla, Solothurn, Switzerland. Mechanism for regulating the point of ignition in magneto-electric ignition apparatus. No. 1,349,278; Aug. 10; v. 277; p. 276.
Hürlimann, Ernst, Zuchwil, assignor to Firm Scintilla, Solothurn, Switzerland. Magneto-electric ignition-machine. No. 1,360,640; Nov. 30; v. 280; p. 893.
Hurni, Ford M., St. Joe, Ind. Steering attachment for tractors. No. 1,341,426; May 25; v. 274; p. 729.
Huron Portland Cement Company. (See Crapo, S. T., and Jenkins, assignor.)
Hurst, Charles, Limited. (See Patton, Alexander M., assignor.)
Hurst, George A., Louisville, Ky. Concrete roof construction. No. 1,346,752; July 13; v. 276; p. 343.
Hurst, Henry, *et al.* (See McNerny, Clyde J., assignor.)
Hurst, Max, *et al.* (See Link, William, assignor.)
Hurst, William, Winnipeg, Manitoba, Canada. Electrical radiator-heater. No. 1,327,279; Jan. 6; v. 270; p. 75.
Hurst, William C., New York, N. Y. Combustion-engine. No. 1,344,228; June 22; v. 275; p. 694.
Hurst, Willis T., Pittsburgh, Pa. Pig-metal-casting machine. No. 1,354,975; Oct. 5; v. 279; p. 105.
Hurt, George C., Blackstone, Va. Combined cap and funnel for radiator-filling tubes. No. 1,339,562; May 11; v. 274; p. 245.
Hurt, George F., New York, N. Y. Pulverising-mill. No. 1,334,701; Mar. 23; v. 272; p. 634.
Hurt, George F., assignor to Pratt Engineering & Machine Company, Atlanta, Ga. Storage-building. No. 1,330,709; Feb. 10; v. 271; p. 286.
Hurt, Granville R., Chanute, Kans. Adjustable shoe-last. No. 1,338,981; Mar. 16; v. 272; p. 454.
Hurt, Henry H., Yonkers, assignor to Robeson Process Company, New York, N. Y. Burning fuel. No. 1,329,300; Jan. 27; v. 270; p. 581.
Hurteau, Jean B., Terrebonne, Quebec, Canada. Boot and shoe. No. 1,340,049; May 11; v. 274; p. 338.
Hurter, Henry, assignor to Fulton Iron Works Company, St. Louis, Mo. Cane-crushing apparatus. No. 1,339,600; May 11; v. 274; p. 253.
Hurtig, Josef, Rochester, N. Y. Electrically-driven spindle. No. 1,327,160; Jan. 6; v. 270; p. 52.
Hurwitz, Joseph, New York, N. Y. Shirt. No. 1,327,476; Jan. 6; v. 270; p. 111.
Hurwitz, Samuel J., Youngstown, Ohio. Vulcanizer. No. 1,357,984; Nov. 9; v. 280; p. 211.
Hurxthal, Alpheus O., assignor to The Philadelphia Textile Machinery Company, Philadelphia, Pa. Rotary driers. No. 1,339,260; May 4; v. 274; p. 112.
Husband, Allen J. (See Zadora, Joseph M., assignor.)
Husbands, Frank J., Los Angeles, Calif. Traffic-signal. No. 1,335,240; Mar. 30; v. 272; p. 797.
Huseby, Albert A., Chicago, Ill. Piano-pedal action. No. 1,333,657; Mar. 16; v. 272; p. 393.
Huseby, Albert A., Chicago, Ill. Combined phonograph-cabinet and packing-case therefor. No. 1,333,658; Mar. 16; v. 272; p. 393.
Husted, Lemuel J. (See Mulvany, Alva B., assignor.)
Huston, Charles L., Coatesville, Pa. Double-head milling-machine. No. 1,339,029; May 4; v. 274; p. 70.
Huston, Edward M., Philadelphia, Pa. Valve-grinder. No. 1,341,984; June 1; v. 275; p. 73.
Huston, Sidney H., Houston, Tex. Screening device for oil-wells. No. 1,342,813; June 8; v. 275; p. 289.
Huston, Sidney H., Houston, Tex. Sample-taking device. No. 1,342,814; June 8; v. 275; p. 289.
Huston, Thomas, Kokomo, Ind. Farm-gate. No. 1,341,905; June 1; v. 275; p. 57.
Hutchens, William A., Yadkinville, N. C. Sectional overshot water-wheel. No. 1,331,110; Feb. 17; v. 271; p. 431.
Hutchings, George F. (See Julian, H. S., and Hutchings.)
Hutchins, Allan S., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft-detecting mechanism. No. 1,349,341; Aug. 10; v. 277; p. 288.
Hutchins Car Roofing Company. (See Hawksworth, D. W., assignor.)
Hutchins Car Roofing Company. (See Thompson, William D., assignor.)
Hutchins Car Roofing Company. (See Whyte, Frederick M., assignor.)
Hutchins, Carl B., Algona, Iowa. Disk-sharpener. No. 1,333,112; Mar. 9; v. 272; p. 230.
Hutchins, Colin, Leamington, Ontario, Canada. Collapsible core. No. 1,363,651; Dec. 28; v. 281; p. 664.
Hutchins, Edward, New York, N. Y., assignor to International Paper Company. Grinder for the production of wood-pulp. No. 1,333,659; Mar. 16; v. 272; p. 394.
Hutchins, Edward, New York, N. Y., assignor to International Paper Company. Grinder for the production of wood-pulp. No. 1,333,660; Mar. 16; v. 272; p. 394.
Hutchins, Frank E., *et al.* (See Rosentreter, Albert J., assignor.)
Hutchins, Otis, assignor to The Carborundum Company, Niagara Falls, N. Y. Manufacture of silicon carbid. No. 1,331,435; Feb. 17; v. 271; p. 491.
Hutchins, Otis, assignor to The Carborundum Company, Niagara Falls, N. Y. Aluminous composition and making the same. No. 1,339,344; May 4; v. 274; p. 128.
Hutchins, Otis, assignor to The Carborundum Company, Niagara Falls, N. Y. Refractory material and making it. No. 1,362,316; Dec. 14; v. 281; p. 314.
Hutchins, Otis, assignor to The Carborundum Company, Niagara Falls, N. Y. Refractory article and making the same. No. 1,362,317; Dec. 14; v. 281; p. 314.
Hutchinson, Albert A., Winchester, Mass. Hide-working machine. No. 1,339,201; May 4; v. 274; p. 102.
Hutchinson, David M., *et al.* (See Hachmann, F., and Wilson, assignors.)
Hutchinson, David M., *et al.* (See Hachmann, Frederick, assignor.)
Hutchinson Egg-Case Filler Co. (See Doyle, Clarence E., assignor.)
Hutchinson, Floyd H., Hover, Wash. Torpedo-planting device. No. 1,330,322; Feb. 10; v. 271; p. 214.
Hutchinson, Job, Brooklyn, N. Y. Means for cooling liquids. No. 1,327,560; Jan. 6; v. 270; p. 127.
Hutchinson, Job, Brooklyn, N. Y. Changeable indicator. No. 1,345,675; July 6; v. 276; p. 68.
Hutchinson, Job, Brooklyn, N. Y. Internal-combustion engine. No. 1,356,865; Oct. 26; v. 279; p. 615.
Hutchinson, Joseph. (See Hamilton, Clifford C., assignor.)
Hutchinson, Joseph, and C. C. Hamilton, Gull Lake, Saskatchewan, Canada. Wheel-lubricator. No. 1,328,959; Jan. 27; v. 270; p. 518.

Digitized by Google

Hutchinson, Joseph T., V. Shaw, and F. Barnes, Vancouver, British Columbia, Canada. Making glazing-bars. No. 1,341,271; May 25; v. 274; p. 698.
Hutchinson, Morton C., Woodbury, assignor of one-half to L. G. Buckwalter, Merchantville, N. J. Strip-pulling device for machines for making boiler-retarders. No. 1,333,254; Mar. 9; v. 272; p. 256.
Hutchinson, Morton C., Woodbury, assignor of one-half to L. G. Buckwalter, Merchantville, N. J. Reversible-taper roughing-reamer. No. 1,348,115; July 27; v. 276; p. 729.
Hutchinson, Morton C., Woodbury, assignor of one-half to L. G. Buckwalter, Merchantville, N. J. Piston and rings therefor. No. 1,348,998; Aug. 10; v. 277; p. 220.
Hutchinson, Warren B. (See Le Fevre, G. A., and Hutchinson.)
Hutchinson, Warren B., Newark, N. J., assignor of one-half to A. Blackburne, New York, N. Y. Drier. No. 1,338,731; May 4; v. 274; p. 15.
Hutchinson, Warren B., Newark, N. J., and S. M. Friede, assignors to H. & F. Match Machine Corporation, New York, N. Y. Match-machine. No. 1,334,155; Mar. 16; v. 272; p. 487.
Hutchinson, William S., Bethlehem, Pa. Girder. No. 1,344,229; June 22; v. 275; p. 694.
Hutchinson, William S., Bethlehem, Pa. Floor construction. No. 1,354,560; Oct. 5; v. 279; p. 23.
Hutchison, Arthur E., and H. Krah, New York, N. Y. Base for jacks. No. 1,350,970; Aug. 24; v. 277; p. 723.
Hutchison, Miller R., West Orange, N. J. Spool. No. 1,345,190; June 29; v. 275; p. 946.
Hutchison, Miller R., West Orange, N. J., assignor to Miller Reese Hutchison, Inc. Lock-cabinet for phonograph-records. No. 1,351,333; Aug. 31; v. 277; p. 858.
Hutchison, Miller R., assignor to Miller Reese Hutchison, Inc., West Orange, N. J. Filing-cabinet with locking-compartments. No. 1,351,423; Aug. 31; v. 277; p. 875.
Hutchison, Miller Reese, Inc. (See Hutchison, Miller R., assignor.)
Hutchison, Norman F., Balwyn, near Melbourne, Victoria, Australia. File for loose sheets. No. 1,345,365; July 6; v. 276; p. 8.
Hutchison, William, Cleveland, Ohio. Collar-clasp. No. 1,345,191; June 29; v. 275; p. 946.
Hutchison, William M., Somerville, N. J., assignor to Union Tank Line Company, New York, N. Y. Tank. No. 1,329,603; Feb. 3; v. 271; p. 48.
Huth, H. Walter, Chicago, Ill. Toy fighting-tank. No. 1,334,539; Mar. 23; v. 272; p. 605.
Huth, John H., Philadelphia, Pa. Pipe connection and making same. No. 1,345,543; July 6; v. 276; p. 43.
Huther Brothers Saw Manufacturing Company. (See Stauder, Emanuel, assignor.)
Hutsell Motor Company, The. (See Hutsell, Thomas A., assignor.)
Hutsell, Thomas A., assignor to Wright Rebound Snubber Company, Spokane, Wash. Shock-absorber. No. 1,334,455; Mar. 23; v. 272; p. 589.
Hutsell, Thomas A., assignor to The Hutsell Motor Company, Spokane, Wash. Internal-combustion engine. No. 1,361,332; Dec. 7; v. 281; p. 70.
Hutson, James C., Missoula, Mont. Door-lock. No. 1,356,526; Oct. 26; v. 279; p. 548.
Hutson, James L., Shelbyville, Tenn. Perpetual calendar. No 1,353,751; Sept. 21; v. 278; p. 495.
Hutt, Leonard E., Schenectady, N. Y., assignor to General Electric Company. Electromagnetic switch. No. 1,337,072; Apr. 13; v. 273; p. 320.
Hutt, Leonard P., Schenectady, N. Y., assignor to General Electric Company. Switch construction. No. 1,342,999; June 8; v. 275; p. 325.
Huttig Mill Work Company. (See Hulen, H., and Brown, assignors.)
Huttner, Joe, Sierra Madre, Calif. Lid-holder. No. 1,349,155; Aug. 10; v. 277; p. 251.
Hutton, Alfred, and J. M. Mahoney, Schenectady, N. Y. Oil-burning appliance for furnaces. No. 1,360,641; Nov. 30; v. 280; p. 893.
Hutton, David B., Waiuku, New Zealand. Construction of force or lift pumps. No. 1,341,906; June 1; v. 275; p. 57.
Hutton, John, Gibliston, Colinsburgh, Scotland. Machine for planting potatoes and other seed. No. 1,352,411; Sept. 7; v. 278; p. 133.
Hutton, Robert G. (See Wilson, D. H., and Hutton.)
Hutton, William F. (See Ivarson, Victor, assignor.)
Huwyler, Liberat, Goldau, Switzerland. Railway-car. No. 1,346,891; July 20; v. 276; p. 429.
Hvid, R. M., Company. (See Hvid, Rasmus M., assignor.)
Hvid, R. M., Company. (See Slonek, Frank G., assignor.)
Hvid, Rasmus M., Chicago, Ill. Oil-burning engine. No. 1,346,205; July 13; v. 276; p. 234.
Hvid, Rasmus M., assignor to R. M. Hvid Company, Chicago, Ill. Oil-burning engine. No. 1,334,376; Mar. 23; v. 272; p. 574.
Hvid, Rasmus M., assignor to R. M. Hvid Company, Chicago, Ill. Valve for hydrocarbon-engines. No. 1,346,204; July 13; v. 276; p. 234.
Hvidsten, T. M., and A. H. Ingelsrud, assignors to Det Norske Aktieselskab for Elektrokemisk Industri, Christiania, Norway. Arrangement of electric-furnace electrodes. No. 1,359,067; Nov. 16; v. 280; p. 470.
Hyams, Herbert B., St. Paul, Minn. Dispensing-receptacle. No. 1,329,184; Jan. 27; v. 270; p. 560.
Hyatt, Frank S. (See Frey, A. J., and Hyatt.)
Hyatt, Frank S., Brooklyn, N. Y. Hinged box. No. 1,348,878; Aug. 10; v. 277; p. 196.
Hyatt, Frank S., Brooklyn, N. Y. Vanity-box. No. 1,349,672; Aug. 17; v. 277; p. 426.
Hyatt, Frank S., Brooklyn, N. Y. Vanity-box. No. 1,349,673; Aug. 17; v. 277; p. 426.
Hyatt, Henry E., Singer, La. Watch detail. No. 1,332,295; Mar. 2; v. 272; p. 23.
Hyatt, John E., and H. J. Moen, Stevens Point, Wis. Coal-chute. No. 1,343,675; June 15; v. 275; p. 521.
Hyatt, Robert F. (See Laird, Robert F., assignor.)
Hyatt Roller Bearing Company. (See Bushnell, James E., assignor.)
Hyatt, Samuel W., Columbus, Ohio. Spotlight. No. 1,360,531; Nov. 30; v. 280; p. 871.
Hyatt, Seth B., Pueblo, Colo. Direction-signal. No. 1,332,497; Mar. 2; v. 272; p. 62.
Hyde, Alfred W. T. (See Worthington, J. V., and Hyde.)
Hyde, Augustus C., Perivale, England. Means to be employed in the electric welding of iron or steel or alloys thereof. No. 1,341,558; May 25; v. 274; p. 755.
Hyde, Charles H., assignor to William L. Gilbert Clock Company, Winstead, Conn. Sash for dials. No. 1,351,853; Sept. 7; v. 278; p. 28.
Hyde, Charles L., Plainfield, N. J. Automobile-signal. No. 1,356,150; Oct. 19; v. 279; p. 427.
Hyde, Claude C., Ottisville, N. Y. Snowplow. No. 1,329,123; Jan. 27; v. 270; p. 548.
Hyde, Frank, Sioux Falls, S. D. Shaving-brush. No. 1,335,896; Apr. 6; v. 273; p. 36.
Hyde, Frank, Sioux Falls, S. D. Collar-fastener. No. 1,352,268; Sept. 7; v. 278; p. 106.
Hyde, Reed W. (See Cameron, F. K. Cullen and Hyde.)
Hyden, William, Kingston, W. Va. Truck. No. 1,337,914; Apr. 20; v. 273; p. 554.
Hyder, Alvin, San Pedro, Calif. Oil-engine. No. 1,354,455; Sept. 28; v. 278; p. 680.
Hydes, Horace, Surbiton, England. Dominoes. No. 1,362,318; Dec. 14; v. 281; p. 314.
Hydragas Corporation, The. (See Shaver, George F., assignor.)
Hydraulic Clutch Company. (See Jessen, Arnold H., assignor.)
Hydraulic Press Manufacturing Company, The. (See Stevenson, Francis E., assignor.)
Hydraulic Steel Company, The. (See Copland, James P., assignor.)
Hydraulic Pressed Steel Company, The. (See Davidson, Harry O., assignor.)
Hydraulic Pressed Steel Company. (See Foster, H. J., and Gruenfeld, assignors.)
Hydraulic Pressed Steel Company, The. (See Foster, Henry J., assignor.)
Hydraulic Pressed Steel Company, The. (See Grob, Arnold, assignor.)
Hydraulic Pressed Steel Company, The. (See Klaus, Fred R., assignor.)
Hydraulic Pressed Steel Company, The. (See Sindelar, Thomas A., assignor.)
Hydraulic Pressed Steel Company, The. (See Staples, Edward C., assignor.)
Hydro-Dynamics, Limited. (See Lamplough, Frederick, assignor.)
Hygrade Engineering Co. (See Wetmore, Miner P., assignor.)
Hyland, Edward E., Chicago, Ill. Transfer-ticket. No. 1,338,018; Apr. 27; v. 273; p. 643.
Hyland, James L., Webster, Mass. Shipper-lock. No. 1,361,061; Dec. 7; v. 281; p. 16.
Hyland, Michael J., Rochester, N. Y. Bottle-holder. No. 1,342,747; June 8; v. 275; p. 274.
Hyland, Oltron R., Astoria, Oreg. Packing-auger. No. 1,350,999; Aug. 24; v. 277; p. 728.
Hyle, Jacob A., St. Louis, Mo., assignor to Railway Tie Supply Company, Metallic railway-tie. No. 1,335,241; Mar. 30; v. 272; p. 797.
Hyle, Jacob A., Philadelphia, Pa., assignor to Tri-City Steele Company, St. Louis, Mo. Metallic railway-crosstie. No. 1,339,345; May 4; v. 274; p. 128.
Hyman, Charles H., Chicago, Ill. Toy. No. 1,348,421; Aug. 3; v. 277; p. 58.
Hyman, Charles H., Chicago, Ill. Toy. No. 1,348,422; Aug. 3; v. 277; p. 58.
Hyman, Charles H., Chicago, Ill. Toy. No. 1,348,423; Aug. 3; v. 277; p. 58.
Hyman, Herbert R., Indianapolis, Ind., and T. B. Messick, Toledo, Ohio. Securing depth and relief for commercial advertising. No. 1,339,892; May 11; v. 274; p. 308.
Hymans, Charles, Cambridge, England. Range-finder or telemeter. No. 1,338,985; May 4; v. 274; p. 62.
Hymel, Clement V., New Orleans, La. Slat or louver reinforcement. No. 1,358,448; Nov. 9; v. 280; p. 304.
Hynds, Della M., Kansas City, Mo. Book or copy holder. No. 1,356,769; Oct. 26; v. 279; p. 595.

Digitized by Google

Alphabetical list of patentees—Continued.

Hynds, Della M., Kansas City, Mo. Hose-supporter. No. 1,361,865; Dec. 14; v. 281; p. 224.
Hynes, Lee P., assignor to Consolidated Car-Heating Company, Albany, N. Y. Load-operating arm. No. 1,333,113; Mar. 9; v. 272; p. 230.
Hyslin, Evan, Tacoma, Wash. Clamp-tonsillectome. No. 1,362,701; Dec. 21; v. 281; p. 440.
Hyszka, Maty, Myrtle Point, British Columbia, Canada. Ship-salvage device. No. 1,337,601; Apr. 20; v. 273; p. 494.
Iacono, Joseph, New York, N. Y. Spark-plug. No. 1,334,377; Mar. 23; v. 272; p. 574.
Ibach, Emil, assignor to Budd Wheel Corporation, Philadelphia, Pa. Piercing punch and die. No. 1,338,082; Apr. 27; v. 273; p. 655.
Ibach, Emil, assignor to Budd Wheel Corporation, Philadelphia, Pa. Method and apparatus for cutting left-handed threads. No. 1,338,083; Apr. 27; v. 273; p. 655.
Ibarra y Suris, Emilio, Habana, Cuba. Non-refillable bottle. No. 1,345,279; June 29; v. 275; p. 963.
Ibe, Kisaku, Nogi Gun, Shimane Ken, Japan. Alloy. No. 1,356,367; Oct. 19; v. 279; p. 470.
Ichiba, Rihachi, New York, N. Y. Drill and wire gage. No. 1,342,288; June 1; v. 275; p. 132.
Ickes, Peter C., Chanute, Kans. Concrete tie. No. 1,357,236; Nov. 2; v. 280; p. 7.
Icy-Hot Bottle Company, The. (See Altenberg, George P., assignor.)
Icy-Hot Bottle Company, The. (See Lindahl, Erick P., assignor.)
Iddon, Frederick, Leyland, England. Rubber mixing, grinding, sheeting, and similar mills. No. 1,342,114; June 1; v. 275; p. 99.
Ideal, Aeroplane & Supply Company. (See Palmer, Montague, assignor.)
Ideal Manufacturing Company. (See Glidden, Raymond R., assignor.)
Ideal Refrigerating Machine Company. (See Kleist, Herman W., assignor.)
Ideal Removable Body Company. (See Reynolds, Frank H., assignor.)
Ideal Sheet Metal Works. (See Wilkman, George J., assignor.)
Ideal Wheel Company, The. (See Strietelmeier, John E., assignor.)
Ideal Wrapping Machine Company. (See Frey, John C., assignor.)
Ideal Wrapping Machine Company. (See Lietz, Charles J., assignor.)
Iden, Eugene W., Cleveland, Ohio. Dental instrument. No. 1,347,275; July 20; v. 276; p. 505.
Iftiger, William C., Watts, Calif. Filler for compression grease-guns. No. 1,330,539; Feb. 10; v. 271; p. 255.
Igou, Durward B., Lakewood, Ohio. Gas-burner. No. 1,340,226; May 18; v. 274; p. 429.
Igou, Durward B., Lakewood, Ohio. Multiple diestock. No. 1,340,227; May 18; v. 274; p. 429.
Ihnat, Michael, Detroit, Mich. Railway safety appliance. No. 1,349,834; Aug. 17; v. 277; p. 457.
Ihrcke, Frank A. (See Johnston, G. S., Ihrcke, and Partenheimer.)
Ihrcke, Frank A., Chicago, Ill. Goggles and the like. No. 1,338,505; Apr. 27; v. 273; p. 735.
Ihrig, Orland L., Los Angeles, Calif. Humidifier attachment for carbureters. No. 1,355,094; Oct. 5; v. 279; p. 128.
Ihsen, Arthur H., Pittsburgh, Pa. Tube-expander. No. 1,357,059; Oct. 26; v. 279; p. 653.
Ikeda, Kikunaé, Tokyo, Japan. Manufacturing hydrogen sulfid. No. 1,351,755; Sept. 7; v. 278; p. 8.
Ile, William, New York, N. Y. Electric flash-light. No. 1,333,919; Mar. 16; v. 272; p. 442.
Iles, Charley C., Enterprise, Ohio. Insulator-bracket. No. 1,333,420; Mar. 9; v. 272; p. 287.
Iles, Elijah J., and O. L. Hastings, Alexandria, La. Curing-house for sweet-potatoes. No. 1,353,752; Sept. 21; v. 278; p. 495.
Ilg Electric Ventilating Company. (See Ilg, Robert A., assignor.)
Ilg, Robert A., assignor to Ilg Electric Ventilating Company, Chicago, Ill. Motor-support. No. 1,359,600; Nov. 23; v. 280; p. 619.
Iliff, Ilion, Detroit, Mich. Horseshoeing-jack. No. 1,330,807; Feb. 17; v. 271; p. 372.
Iliff, Ilion, Detroit, Mich. Resilient spoke. No. 1,341,907; June 1; v. 275; p. 58.
Ilich, Herbert H., New York, N. Y. Detachable shield. No. 1,332,126; Feb. 24; v. 271; p. 641.
Illias, Albert, Newark, N. J. Attachment for internal-combustion engines. No. 1,341,172; May 25; v. 274; p. 679.
Illig, Paul T., Ebensburg, Pa. Section-closer and foundation-fastener for honey-sections. No. 1,354,107; Sept. 28; v. 278; p. 610.
Illinois Engineering Company. (See MacDonald, John E., assignor.)
Illinois Glass Company. (See Seabold, Walter G., assignor.)
Illinois Pen Company. (See Kritikson, John.)
Illinois Silo Company, The. (See Springer, William N., assignor.)
Illinois Specialty Manufacturing Company. (See Frankeberger, Albert L., assignor.)
Illinois Tool Works. (See Olson, C. G., and Trbojevich, assignors.)
Illinois Tool Works. (See Olson, Carl G., assignor.)
Illuminated Taillight Company. (See Overtree, Augustus, assignor.)
Imans, Pierre, Paris, France. Arms for exhibition lay figures. No. 1,340,446; May 18; v. 274; p. 470.
Imaoka, Akira, Tokyo, Japan. Manufacturing paper. No. 1,333,255; Mar. 9; v. 272; p. 256.
Imbach, Frank J., Baltimore, Md. Hose appliance. No. 1,331,923; Feb. 24; v. 271; p. 603.
Imbery, Arthur. (See Alexander, H., Vint, and Imbery.)
Imbery, Arthur, Halifax, York, England. Electric rivet-heater. No. 1,363,877; Dec. 28; v. 281; p. 708.
Imboden, Doremus N. (See Strohl, H. B., Imboden, and McCashen.)
Imhoff, Ralph R., Jersey City, N. J. Fireproof cabinet. No. 1,362,421; Dec. 14; v. 281; p. 333.
Impalea, Vito, Chicago, Ill. Gage attachment for planes. No. 1,357,985; Nov. 9; v. 280; p. 211.
Imperial Brass Manufacturing Company, The. (See Dobrick, August C., assignor.)
Imperial Electric Company. (See Schurch, Jacob, assignor.)
Imperial Player Roll Company. (See Fisher, John A., assignor.)
Imperial Tunnelling Machine Company. (See Temple, Robert, assignor.)
Imperial Typewriter Company Limited. (See Pilblad, E. J., and Tomlinson, assignors.)
Import and By Products Company, The. (See Appelbaum, Alan I., assignor.)
Improved Equipment Company, The. (See Abbott, Lyle S., assignor.)
Improved Paper Machinery Company. (See Haug, Anton J., assignor.)
Improved Paper Machinery Company. (See Chapman, Frank M., assignor.)
Ince, Frank L., Maplewood, Mo. Puzzle. No. 1,327,388; Jan. 6; v. 270; p. 95.
Indahl, Maurits C. (See Bancroft and Indahl.)
Indahl, Mauritz C., Philadelphia, Pa. Differential-gear mechanism. No. 1,352,269; Sept. 7; v. 278; p. 106.
Indahl, Mauritz C., assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Semitic type-casting machine. No. 1,356,450; Oct. 19; v. 279; p. 486.
Indahl, Maurits C., assignor to Lanston Monotype Machine Company, Philadelphia, Pa Typographic matrix and method of making the same. No. 1,363,042; Dec. 21; v. 281; p. 506.
Independent Button Fastener Machine Co. (See Sneierson, Samuel L., assignor.)
Independent Harvester Company, The. (See Hunt, George G., assignor.)
Independent Lamp and Wire Company. (See Liebmann, A. J., and Laise, assignors.)
Independent Mines Smelting Company. (See Ward, Randolph G., assignor.)
Independent Pneumatic Tool Company. (See Levedahl, Axel, assignor.)
Independent Trunk and Bag Company. (See Plummer, Henry L., assignor.)
Index Visible. (See Hayes, Robert D., assignor.)
India Rubber Company. (See Foley, William V., assignor.)
India Rubber Company. (See Weida, Harry, assignor.)
India Rubber Company, The. (See Weida, Harry, assignor.)
Indiana Air Pump Company. (Reissue.) (See Pruitt, Oran M., assignor.)
Indiana Lamp Company. (See De Martin, C. L., and Foster, assignors.)
Indiana Silo and Tractor Company. (See White, P. H., and Gerdeman, assignors.)
Indiana Veneer and Panel Company. (See Ruoff, John, assignor.)
Individual Drinking Cup Company. (See Hammond, W. P., and Luellen, assignors.)
Individual Drinking Cup Company. (See Luellen, Lawrence W., assignor.)
Industrial Chemical Company. (See Randall, James W. H., assignor.)
Industrial Controller Company. (See Van Valkenburg, Hermon L., assignor.)
Industrial Electric Furnace Company. (See Snyder, Frederick T., assignor.)
Industrial Research Corporation. (See Belden, Edward H., assignor.)
Industrial Research Corporation. (See Brockway, Carl P., assignor.)
Industrial Research Corporation. (See Davies, Henry R., assignor.)
Industrial Research Corporation. (See Green, Charles F., assignor.)
Industrial Research Corporation. (See Heany, John A., assignor.)
Industrial Research Corporation. (See Huebner, Otto E., assignor.)
Industrial Research Corporation. (See Jerdone, Francis, Jr., assignor.)

Digitized by Google

Industrial Research Corporation. (See Jones, George G., assignor.)
Industrial Research Corporation. (See Myers, Don D., assignor.)
Industrial Research Corporation. (See Saxon, H. R., and Ganzert, assignors.)
Industrial Research Corporation. (See Saxon, Herman R., assignor.)
Industrial Track Construction Company. (See Billman, H. E., and Kell, assignors.)
Industrie & Nijnbouw Maatschappij "Titan." (See Van der Toorn, Jacobus J. W. H., assignor.)
Ingalls, Norris C., Newburyport, Mass. Hoisting-hook. No. 1,341,427; May 25; v. 274; p. 729.
Ingalls, Ralph T. (See Rasmussen, Charles, assignor.)
Ingebrigtsen, Ole A., New York, N. Y. Artificial ankle-joint. No. 1,334,861; Mar. 23; v. 272; p. 666.
Ingebrigtsen, Ralph L., Aberdeen, Wash. Ruling-pen attachment. No. 1,360,751; Nov. 30; v. 280; p. 914.
Ingells, James, Muskegon, Mich. Aeroplane-tractor. No. 1,353,961; Sept. 28; v. 278; p. 580.
Ingels, James, Springfield, Ill. Insulator for spark-plugs. No. 1,341,747; June 1; v. 275; p. 27.
Ingelsrud, Arne H. (See Hvidsten, T. M., and Ingelsrud.)
Ingersoll, Charles H. (See Dodge, Harvey E., assignor.)
Ingersoll, George B., Detroit, Mich. Selective change-speed gearing and control mechanism. No. 1,353,240; Sept. 21; v. 278; p. 393.
Ingersoll, Howard L., White Plains, N. Y. Booster-motor for locomotives. No. 1,339,395; May 11; v. 274; p. 213.
Ingersoll, Howard L., White Plains, N. Y. Governor control for booster-motors for locomotives. No. 1,339,513; May 11; v. 274; p. 236.
Ingersoll-Rand Company. (See Abrams, Herbert T., assignor.)
Ingersoll-Rand Company. (See Ambrose, Robert L., assignor.)
Ingersoll-Rand Company. (See Bancel, Paul A., assignor.)
Ingersoll-Rand Company. (See Bayles, Lewis C., assignor.)
Ingersoll-Rand Company. (See Bayles, L. C., and Slater, assignors.)
Ingersoll-Rand Company. (See Beyer, H. E., and Hall, assignors.)
Ingersoll-Rand Company. (See Boyer, Lewis E., assignor.)
Ingersoll-Rand Company. (See Christmas, Adolph F., assignor.)
Ingersoll-Rand Company. (See Ditson, Jesse, assignor.)
Ingersoll-Rand Company. (See Gibson, Arthur H., assignor.)
Ingersoll-Rand Company. (See Haight, Harry V., assignor.)
Ingersoll-Rand Company. (See Hansen, Charles C., assignor.)
Ingersoll-Rand Company. (See Jimerson, Francis A., assignor.)
Ingersoll-Rand Company. (See Longacre, Frederick D., assignor.)
Ingersoll-Rand Company. (See Longacre, Frederick V. D., assignor.)
Ingersoll-Rand Company. (See Prellwitz, William, assignor.)
Ingersoll-Rand Company. (See Slater, Fred M., assignor.)
Ingersoll-Rand Company. (See Smith, William A., assignor.)
Ingersoll-Rand Company. (See Stage, Harold I., assignor.)
Ingersoll-Rand Company. (See Wilhelm, Russell H., assignor.)
Ingersoll, Robert H. & Bros. (See Maloney, William T., assignor.)
Ingham, Clarence H., and W. H. Wilcox, Cooper, Iowa. Reversible plow-shovel. No. 1,340,392; May 18; v. 274; p. 460.
Ingham, Emanuel, San Diego, Calif. Method and apparatus for weaving textile fabrics. No. 1,328,794; Jan. 20; v. 270; p. 457.
Ingle, Arthur H. (See Putnam, Salmon W., 3d., assignor.)
Ingle, Arthur H. (See Trosch, Alfred, assignor.)
Ingle, Arthur H., and W. E. Ward, Rochester, N. Y.; said Ward assignor to said Ingle. Apron mechanism for lathes. No. 1,345,676; July 6; v. 276; p. 68.
Ingle, Eliza, Baltimore, Md. Scale. No. 1,356,987; Oct. 26; v. 279; p. 638.
Ingle, Arthur H., and W. E. Ward, Rochester, N. Y., said Ward assignor to said Ingle. Apron mechanism for lathes. No. 1,362,626; Dec. 21; v. 281; p. 425.
Ingle, William D., Oakland City, Ind. Switch-stand. No. 1,363,653; Dec. 28; v. 281; p. 664.
Inglehart, Walter A., Oakville, Ontario, Canada. Oil-burner and driving means therefor. No. 1,362,001; Dec. 14; v. 281; p. 251.
Inglis, Walter E., Bridgeport, Conn., assignor, by mesne assignments, to Remington Arms Company, Inc., New York, N. Y. Cartridge-box. No. 1,359,895; Nov. 23; v. 280; p. 678.
Ingold, Paul A., Basel, Switzerland. Artificial leg. No. 1,361,062; Dec. 7; v. 281; p. 16.
Ingoldsby Automatic Car Company, The. (See Ingoldsby, Frank S., assignor.)
Ingoldsby, Frank S., Pine Lake, Mich., assignor to The Ingoldsby Automatic Car Company, Cleveland, Ohio. Dump-car. No. 1,344,403; June 22; v. 275; p. 729.
Ingoldby, Maurice K., assignor to Vickers Limited, Westminster, London, England. Power-transmission device. No. 1,340,447; May 18; v. 274; p. 471.
Ingraham, E., Company, The. (See Crouch, W. L., and Rust, assignors.)
Ingraham, George J. (See Burr, H. M., and Ingraham.)
Ingraham, Jerome H., assignor of one-half to C. W. Pullig, Knox City, Tex. Hot-air mixer. No. 1,333,114; Mar. 9; v. 272; p. 230.
Ingraham, Leon. (See Wood, E., and Ingraham.)
Ingram, Alfred and H., assignors to Ingrams Incorporated, Brooklyn, N. Y. Closure for jars, bottles, and other receptacles. No. 1,346,653; July 13; v. 276; p. 323.
Ingram, Alfred and H., assignors to Ingrams Incorporated, Brooklyn, N. Y. Closure for jars, bottles, and other receptacles. No. 1,346,654; July 13; v. 276; p. 324.
Ingram, Alfred, and H. I., assignors to Ingrams Incorporated, Brooklyn, N. Y. Closure for jars, bottles, and other receptacles. No. 1,353,396; Sept. 21; v. 278; p. 423.
Ingram, Alfred and H., assignors to Ingrams Incorporated, Brooklyn, N. Y. Closure for jars, bottles, and other receptacles. No. 1,353,397; Sept. 21; v. 278; p. 423.
Ingram, Alfred and H., assignors to Ingrams Incorporated, Brooklyn, N. Y. Closure for tumblers, jars, bottles, and other receptacles. No. 1,353,398; Sept. 21, v. 278; p. 424.
Ingram, Alfred and H., assignors to Ingrams Incorporated, Brooklyn, N. Y. Closure for jars, bottles and other receptacles. No. 1,353,399; Sept. 21; v. 278; p. 424.
Ingram, Alfred and H., assignors to Ingrams Incorporated, Brooklyn, N. Y. Closure for jars, bottles, and other receptacles. No. 1,353,400; Sept. 21; v. 278; p. 424.
Ingram, Alfred and H., Brooklyn, assignors to Ingrams Incorporated, New York, N. Y. Closure for jars, bottles, and other receptacles. No. 1,353,909; Sept. 28; v. 278; p. 569.
Ingram, David R., Kansas City, Mo. Hydraulic oil-elevator. No. 1,355,606; Oct. 12; v. 279; p. 280.
Ingram, Finch P., Fairlight, England. Life-saving appliance. No. 1,341,908; June 1; v. 275; p. 58.
Ingram, Harry. (See Ingram, Alfred and H.)
Ingram, Horace G., Juniata, and S. Goldberg, Altoona, Pa. Powder-dispensing device. No. 1,341,174; May 25; v. 274; p. 680.
Ingram, Nathan D., Miami, Fla. Hair-cutting shears. No. 1,332,296; Mar. 2; v. 272; p. 23.
Ingram, Oscar L., Walla Walla, Wash. Demountable rim. No. 1,343,394; June 15; v. 275; p. 465.
Ingram, Sleeper T., assignor of thirty per cent. to J. E. Newell, St. Louis, Mo. Tractor rotary plow. No. 1,342,815; June 8; v. 275; p. 289.
Ingram, Walter M., Baltimore, Md. Marking-machine. No. 1,331,924; Feb. 24; v. 271; p. 604.
Ingrams Incorporated. (See Ingram, Alfred and H., assignors.)
Inlaid Company, The. (See Butler, David H., assignor.)
Inland Automatic Thrasher and Machinery Company. (See Shanks, John N., assignor.)
Inland Machine Works. (See Hartog, Stephen D., assignor.)
Inman, Harry A. and W. H., Amsterdam, N. Y. Box folding and stacking machine. No. 1,355,398; Oct. 12; v. 279; p. 240.
Inman, Lewis A., and A. S. Harris, Dodson, Mont. Flux. No. 1,357,871; Nov. 2; v. 280; p. 128.
Inman Manufacturing Company. (See Joslin, Frank M., assignor.)
Inman, Thomas M. (See Bygrave, L. C., and Inman.)
Inman, Walter V., Ridgley, Tenn. Tractor. No. 1,359,296; Nov. 16; v. 280; p. 513.
Inman, William H. (See Inman, Harry A. and W. H.)
Innes, George, and J. H. Prall, Philadelphia, Pa. Grain-shocker. No. 1,346,542; July 13; v. 276; p. 302.
Innes, George, and J. H. Prall, Philadelphia, Pa. Grain-shocker. No. 1,346,543; July 13; v. 276; p. 302.
Innes, George. (See Prall, James H., assignor.)
Insko, Walter D., Anselmo, Nebr. Brooder. No. 1,350,971; Aug. 24; v. 277; p. 723.
Insley Manufacturing Company. (See Insley, W. H., and Rasmussen, assignors.)
Insley, William H., and A. C. Rasmussen, assignors to Insley Manufacturing Company, Indianapolis, Ind. Derrick-base. No. 1,348,008; July 27; v. 276; p. 707.
Insley, William H., and A. C. Rasmussen, assignors to Insley Manufacturing Company, Indianapolis, Ind. Concrete-handling machine. No. 1,362,002; Dec. 14; v. 281; p. 252.
Interlocking Cord Tire and Belt Company, The. (See Kline, Walter, assignor.)
International Aerial Navigation Company. (See Keppel, Jesse E., assignor.)
International Army and Navy Equipment Company, The. (See Seymour, Benjamin F., assignor.)
International Calliphone Corporation. (See Kurman, Nathan A., assignor.)

Digitized by Google

Alphabetical list of patentees—Continued.

International Cellulose Company. (See Ostenberg, Zeno, assignor.)
International Coal Products Corporation. (See Runge, Walter, assignor.)
International Coal Products Corporation. (See Smith, Charles H., assignor.)
International Conveyor Corporation. (See Stuart, Francis L., assignor.)
International Conveyor Corporation. (See Steuart, Francis L., assignor.)
International Cork Company. (See Allatt, Thomas, assignor.)
International Cork Company. (See Alberti, Emilio, assignor.)
International Corset Company. (See Schopbach, Charles H., assignor.)
International Coupler Company. (See White, Walter C., assignor.)
International Earth-Boring Machine. (See Moore, William E., assignor.)
International Farm Implement Company. (See Pile, John R., assignor.)
International Fuel Conservation Co. (See Anderson, Robert J., assignor.)
International Gasolene Process Corporation. (See Faust, Samuel D., assignor.)
International Harvester Company. (See Benjamin, Bert R., assignor.)
International Harvester Company. (See Benjamin and Hagadone, assignors.)
International Harvester Company. (See Bloesinger, A., and Howe, assignors.)
International Harvester Company. (See Burgess, Edward M., assignor.)
International Harvester Company. (See Burgess, Edward W., assignor.)
International Harvester Company. (See Cady, Sherman W., assignor.)
International Harvester Company. (See Dennis, Samuel K., assignor.)
International Harvester Company. (See Dwyer, William C., assignor.)
International Harvester Company. (See Fitzgerald, William S., assignor.)
International Harvester Company. (See Graham, William S., assignor.)
International Harvester Company. (See Hagadone, Clinton A., assignor.)
International Harvester Company. (See Holsey, Arthur, assignor.)
International Harvester Company. (See Horthy, William A., assignor.)
International Harvester Company. (See Johnston, E. A., and Kane, assignors.)
International Harvester Company. (See Lindgren, Alexus C., assignor.)
International Heater Company. (See Lyman, C. M., and Butters, assignors.)
International Harvester Company. (See Merwin, George M., assignor.)
International Harvester Company. (See Mott, Carl W., assignor.)
International Harvester Company. (See Mowry, Edward, assignor.)
International Harvester Company. (See Peterson, Walter R., assignor.)
International Harvester Company. (See Raney, Clemma R., assignor.)
International Harvester Company. (See Rice, George L., assignor.)
International Harvester Company. (See Ryan, Ralph J., assignor.)
International Harvester Company. (See Sharp, Charles S., assignor.)
International Harvester Company of Canada. (See Bozard, Harrison B., assignor.)
International Manufacturing Company. (See Thompson, R. A., and Morris, assignors.)
International Manufacturing Company of Texas. (See Thompson, R. A., and Morris, assignors.)
International Money Machine Company. (See Mann, Miles H., assignor.)
International Motor Company. (See Bolger, Robert S., assignor.)
International Motor Company. (See Hanshew, George O., assignor.)
International Motor Company. (See House, Albert B., assignor.)
International Motor Company. (See Leipjert, A. H., and Herreshoff.)
International Motor Company. (See Leipert, August H., assignor.)
International Motor Company. (See Lucand, Alexander, assignor.)
International Motor Company. (See Masury, A. F., and Bolger, assignors.)
International Motor Company. (See Masury, A. F., and Herreshoff, assignors.)
International Moving Picture & Film Company. (See Hunt, John R., assignor.)
International Moving Picture and Film Company. (See Killman, Thomas A., assignor.)
International Munitions Company, Inc. of Delaware. (See Knight, Herbert, assignor.)
International Nickel Company, The. (See Stanley, Robert C., assignor.)
International Nitrogen Company. (See Reid, James H., assignor.)
International Oxygen Company. (See Benjamin, Edward O., assignor.)
International Paper Company. (See Dodge, Philip T., assignor.)
International Paper Company. (See Hutchins, Edward, assignor.)
International Pavement Company, The. (See Hemstreet, George P., assignor.)
International Precipitation Company. (See Anderson, E., and Moon, assignors.)
International Precipitation Company. (See Davidson, James G., assignor.)
International Precipitation Company. (See Nesbit, Arthur F., assignor.)
International Precipitation Company. (See Schmidt, W. A., and Roberts, assignors.)
International Precipitation Company. (See Schmidt, Walter A., assignor.)
International Precipitation Company. (See Stringfield, Raymond B., assignor.)
International Precipitation Company. (See Welch, Harry V., assignor.)
International Precipitation Company. (See Wolcott, Edson R., assignor.)
International Printing Company. (See Hess, Michael, assignor.)
International Radio Telegraph Company. (See Hogan, John L., Jr., assignor.)
International Signal Co., The. (See Webb, Jean F., Jr., assignor.)
International Steel Corporation. (See MacDermott, Roger J., assignor.)
International Telephone Co. (See Hastings, Ruben C. M., assignor. (Reissue.)
International Time Recording Company. (See Carroll, Fred M., assignor.)
International Time Recording Company. (See Larrabee, Clinton E., assignor.)
International Time Recording Company of New York. (See Bryce, James W., assignor.)
International Time Recording Company of New York. (See Krautter, William F., assignor.)
International Time Recording Company of New York, The. (See Larrabee, Clinton E., assignor.)
International Time Recording Company, The. (See Bryce, James W., assignor.)
International Torpedo Boat Corporation. (See Shearer, William B., assignor.)
Interstate Ever-license Company. (See Fawcett, Charles H., assignor.)
Interstate Oil and Equipment Corporation. (See Carden, David A., assignor.)
Interstate Tool and Manufacturing Company. (See Balthasar, Harry G., assignor.)
Intertype Corporation. (See Berry, Alfred M., assignor.)
Intertype Corporation. (See Freund, Herman R., assignor.)
Intertype Corporation. (See Homans, Thomas S., assignor.)
Interwoven Mills, The. (See Smith, William E., assignor.)
Invincible Cinema Camera Corporation. (See Lawhun, Samuel M., assignor.)
Invisible Ink Company. (See Marvin, P. B., and Phelan, assignors.)
Inwood, Mary C., administratrix. (See Inwood, Richard G.)
Inwood, Richard G., South Bend, Ind., assignor to Wirebounds Patents Company, Kittery, Me. Box. No. 1,328,328; Jan. 20; v. 270; p. 370.
Inwood, Richard G., deceased; M. C. Inwood administratrix, South Bend, Ind., assignor to Wirebounds Patents Company, Kittery, Me. Machine for use in making box parts or boxes. No. 1,332,728; Mar. 2; v. 272; p. 106.
Inzalata, Donato, *et al.* (See Morelli and Solimeo, assignors.)
Ioka, Unji Sakai, Osaka-Fu, Japan. Removing the odor from fish-oil. No. 1,340,050; May 11; v. 274; p. 338.
Ionides, Alexander C., Jr., and S. V. Cooke, London, England; said Cooke assignor to said Ionides. Gas-furnace-regulating system. No. 1,347,954; July 27; v. 276; p. 696.
Ionides, Alexander C., Jr., London, England. Gaseous combustion. No. 1,347,955; July 27; v. 276; p. 696.
Ionides, Alexander C., Jr., London, England. Heating apparatus. No. 1,349,279; Aug. 10; v. 277; p. 276.
Iowa Dairy Separator Company. (See Anderson, Gustaf M., assignor.)
Ira Co. Fabrique Suisse d' Articles en bois, Schweizerische Holzwarenfabrik. (See Baumgartner, Arthur, assignor.)
Ireland, George C., Brantford, Ontario, Canada. Quick-acting clamp. No. 1,331,505; Feb. 24; v. 271; p. 524.
Ireland, Robert H., Brooklyn, N. Y. Parlor baseball-game. No. 1,337,773; Apr. 20; v. 273; p. 527.

Digitized by Google

Ireland, Ward S., assignor to National Shorthand Machine Company, St. Louis, Mo. Shorthand-machines. No. 1,339,346; May 4; v. 274; p. 128.
Irenius, Joseph V., Newark, N. J., assignor to Ferdinand Strauss, Inc., New York, N. Y. Mechanical toy. No. 1,337,705; Apr. 20; v. 273; p. 514.
Irion, Christian, assignor to Fred Medart Manufacturing Company, St. Louis, Mo. Latching mechanism. No. 1,335,375; Mar. 30; v. 272; p. 823.
Irion, Thomas E., Des Moines, Iowa. Automobile lock. No. 1,359,068; Nov. 16; v. 280; p. 470.
Irish, David J., Barberton, Ohio, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Liquid-atomizer. No. 1,332,667; Mar. 2; v. 272; p. 94.
Irish, Elwood W., Richmond, Va. Brake-lever lock for automobiles. No. 1,330,117; Feb. 10; v. 271; p. 176.
Iron City Products Company. (See Arnold, Edwin E., assignor.)
Iron Horse Tractor Company, The. (See Gardiner, Lon M., assignor.)
Irons, Robert H., Harrisburg, Pa. Paving-block. No. 1,344,895; June 29; v. 275; p. 890.
Irons, Robert H., assignor to Central Iron & Steel Company, Harrisburg, Pa. Manufacturing steel. No. 1,345,192; June 29; v. 275; p. 946.
Ironside, Edward A., London, England. Pliers. No. 1,336,464; Apr. 13; v. 273; p. 203.
Ironton Engine Company, The. (See Williams, Albert R., assignor.)
Irrgang, Hans F., St. Maries, Idaho. Electric switch. No. 1,352,966; Sept. 14; v. 278; p. 280.
Irrgang, William F., assignor to The Warren & Irrgang Company, Springfield, Mass. Truck. No. 1,339,109; May 4; v. 274; p. 86.
Irsch, Jacob, New York, N. Y. Amusement device. No. 1,343,083; June 8; v. 275; p. 342.
Irvin, James R. (See Smith, W. I., and Irvin.)
Irvin, King, and A. Lennox, Washington, D. C. Method of and apparatus for pouring molten metal. No. 1,350,972; Aug. 24; v. 277; p. 723.
Irvin, Roy. (See Kohman, H. A., and Irvin.)
Irvine, Benjamin, Everett, Wash. Leaf-supporting mechanism. No. 1,350,503; Aug. 24; v. 277; p. 634.
Irvine, Charles R., Petrolia, Ontario, Canada. Vehicle-tire. No. 1,352,370; Sept. 7; v. 278; p. 125.
Irvine, Richard S., San Francisco, Calif. Selective organ-player mechanism. No. 1,331,506; Feb. 24; v. 271; p. 524.
Irvine, Robin H., Bay City, Mich. Tree-sawing machine. No. 1,345,492; July 6; v. 276; p. 32.
Irving, Robert H., Gramercy, La. Fuel-regulator. No. 1,334,612; Mar. 23; v. 272; p. 618.
Irving, Roy F. (See Mangnall, A. R. and Irving.)
Irving, Walter E., Glenbrook, Conn. Support for gratings. No. 1,327,711; Jan. 13; v. 270; p. 217.
Irwin, Beatrice, New York, N. Y. Light-filter. No. 1,351,756; Sept. 7; v. 278; p. 8.
Irwin, De Witt D., assignor of one-half to E. M. Knowles, East Liverpool, Ohio. Drying-machine. No. 1,329,082; Jan. 27; v. 270; p. 540.
Irwin, George H., and F. A. Martin, Lindsay, Ontario, Canada. Stringed instrument of the mandolin or guitar variety. No. 1,355,977; Oct. 19; v. 279; p. 392.
Irwin, George T., Toronto, Ontario, Canada. Standard electric lamp. No. 1,361,333; Dec. 7; v. 281; p. 70.
Irwin, Howard W., and W. K. Hawk, Philadelphia, Pa. Theft-detecting means for vehicles. No. 1,336,745; Apr. 13; v. 273; p. 257.
Irwin, John E. (See Morton, T. L., and Irwin.)
Irwin, Samuel D., Floydada, Tex. Powder-sprayer. No. 1,360,642; Nov. 30; v. 280; p. 893.
Irwin, William A., New York, N. Y., and L. F. Jackson, Taunton, Mass. Automobile-lamp. No. 1,328,153; Jan. 13; v. 270; p. 300.
Irwin, William I., *et al.* (Sherman, Harry L., assignor.)
Isaacs, Harry G., Cleveland, and L. H. Hays, Cleveland Heights, assignors to The Kaynee Company, Cleveland, Ohio. Case for shipping and displaying merchandise. No. 1,360,532; Nov. 30; v. 280; p. 871.
Isaacs, Herbert M., Newark, N. J. Pocket ornament. No. 1,361,384; Dec. 7; v. 281; p. 81.
Isaacs, Moses, New York, N. Y. Cloth-laying machine. No. 1,338,570; Apr. 27; v. 273; p. 746.
Isaak, Gotthilf. (See Isaak, Nathaniel G. and G.)
Isaak, Nathaniel G. and G., American Falls, Idaho. Rotary-rod weeder. No. 1,329,839; Feb. 3; v. 271; p. 93.
Isachson, Norman, Albion, Idaho. Timer attachment. No. 1,336,296; Apr. 6; v. 273; p. 112.
Ischinger, Eric, assignor to E. R. Saalmann, Rochester, N. Y. Child's vehicle. No. 1,343,566; June 15; v. 275; p. 499.
Iseli, Frederick. (See Christoffel, Thomas, assignor.)
Iseman, R. F., and E. L. Snyder, Canton, Ohio. Photographic-plate holder. No. 1,355,146; Oct. 12; v. 279; p. 190.
Iseman, Will D., Detroit, Mich. Egg-candler. No. 1,351,757; Sept. 7; v. 278; p. 8.
Isgrig, Walter V., assignor to Badger Manufacturing Corporation, Milwaukee, Wis. Automobile- bumper. No. 1,353,241; Sept. 21; v. 278; p. 398.
Isko Company, The. (See Joy, Henry B., assignor.)
Isko Company, The. (See McCuen, Charles L., assignor.)
Isko Company, The. (See Wolf, Fred W., assignor.)
Isko Company, The. (See Yates, Charles E., assignor.)
Isler, Max. (See Jagerspacher, C., and Isler.)
Isley, George H., Worcester, Mass. Talking-machine. No. 1,355,080; Oct. 5; v. 279; p. 125.
Isley, George H., Worcester, Mass. Talking-machine. No. 1,355,081; Oct. 5; v. 279; p. 125.
Isliker, Albert, assignor of one-half to Motosacoche Société Anonyme, Geneva, Switzerland. Two-stroke internal-combustion engine. No. 1,336,232; Apr. 6; v. 273; p. 100.
Isom, Walter L., Crows Landing, Calif. Grain-reclaimer. No. 1,331,710; Feb. 24; v. 271; p. 563.
Isphording, Richard C., Cincinnati, Ohio, and G. H. Schultz, Fort Thomas, Ky. Gasolene-reservoir for automobiles. No. 1,343,173; June 8; v. 275; p. 359.
Iten Biscuit Co. (See Phillips, John G., assignor.)
Ithaca Gun Company. (See Curtis, Arthur P., assignor.)
Ittner, Anthony F., *et al.* (See Smith, James F., assignor.)
Iucolano, Frank, New York, N. Y. Window-lock. No. 1,341,173; May 25; v. 274; p. 680.
Ivanhoe, George C., assignor to C. Dean, Port Lavaca, Tex. Automatic train-gate. No. 1,330,035; Feb. 3; v. 271; p. 128.
Ivarson, Victor, Cleghorn, assignor of one-half to W. F. Hutton, Cherokee, Iowa. Tractor. No. 1,329,711; Feb. 3; v. 271; p. 68.
Ivers-Lee Company. (See Gray, Edward E., assignor.)
Iversen, Herbert, Chicago, Ill. Separable button. No. 1,328,432; Jan. 20; v. 270; p. 389.
Iversen, Ragnar, Christiania, Norway. Solder for metals, particularly aluminium. No. 1,332,899; Mar. 9; v. 272; p. 190.
Iversen, Lorenz Pittsburgh, Pa. Universal coupling. No. 1,359,601; Nov. 23; v. 280; p. 620.
Iverson, Eric, Omaha, Nebr. Cuspidor. No. 1,329,124; Jan. 27; v. 270; p. 549.
Iverson Piano Player Company. (See Peterson, Claus E., assignor.)
Ives, Charles A., Erie, Pa., assignor to General Electric Company. Fluid-pressure-brake apparatus. No. 1,334,862; Mar. 23; v. 272; p. 666.
Ives, Edward L., Chicago, Ill. Blowpipe for blast-furnaces. No. 1,362,702; Dec. 21; v. 281; p. 440.
Ives, Minnie A. P. (See Boardman, Solomon, assignor.)
Ives, Minnie P., administratrix, *et al.* (See Boardman, Solomon.)
Ivey, John D. C., Fitzgerald, Ga. Brake. No. 1,336,435; Apr. 13; v. 273; p. 198.
Ivey, Percy D., Guelph, Ontario, and A. J. Salisbury, Toronto, Canada. Drain device for storage batteries. No. 1,330,634; Feb. 10; v. 271; p. 272.
Ivey, Percy D., Guelph, and A. J. Salisbury, Toronto, Ontario, Canada. Storage battery. No. 1,340,269; May 18; v. 274; p. 436.
Ivey, Percy D., Guelph, Ontario, and A. J. Salisbury, Toronto, Ontario, Canada, assignors to The Ivey Storage Batteries, Limited, Toronto, Canada. Battery-cell hydrometer. No. 1,354,255; Sept. 28; v. 278; p. 641.
Ivey, Percy D., Guelph, and A. J. Salisbury, assignors to The Ivey Storage Batteries, Limited, Toronto, Ontario, Canada. Battery cell. No. 1,354,256; Sept. 28; v. 278; p. 641.
Ivey Storage Batteries, The. (See Ivey, P. D., and Salisbury, assignors.)
Ivory, James W., Philadelphia, Pa. Dental hand port-polisher. No. 1,327,477; Jan. 6; v. 270; p. 111.
Ivory, James W., Philadelphia, Pa. Tobacco-pipe. No. 1,336,233; Apr. 6; v. 273; p. 100.
Ivory, James W., Philadelphia, Pa. Rubber-dam-clamp appliance. No. 1,336,746; Apr. 13; v. 273; p. 257.
Ivory, James W., Philadelphia, Pa. Rubber-dam-clamp forceps. No. 1,349,767; Aug. 17; v. 277; p. 445.
Izod, Norman H., assignor of one-half to W. Jackson, Samarai, British New Guinea. Excavator for fleshing divided cocoanuts. No. 1,356,527; Oct. 26; v. 279; p. 548.
Izquierdo, Juan M., Habana, Cuba. Filtering apparatus. No. 1,337,517; Apr. 20; v. 273; p. 478.
Izsak, Ignace, Chicago, Ill., assignor to General Patent Manufacturing Company. Wheel-lock. No. 1,358,744; Nov. 16; v. 280; p. 408.
J and B Manufacturing Company. (See Jacobson, Edward B., assignor.)
Jaccard, Alexis, St. Croix, Switzerland, and J. Koff, London, England. Fan with folding blades. No. 1,356,286; Oct. 19; v. 279; p. 455.
Jachimowicz, Szymon, Geneva, Switzerland. Turret-lathe. No. 1,346,892; July 20; v. 276; p. 430.
Jack, Alexander G. M. (See Hadfield, R. A., and Jack.)
Jack, Alexander G. M. (See Hadfield, R. A., Jack, Milne, and Morse.)
Jackerson, Benjamin, Brooklyn, N. Y. Cushion-heel. No. 1,328,154; Jan. 13; v. 270; p. 300.
Jackman, Charles W. (See Jackman, Miles M. and C. W.)
Jackman, George C., *et al.* (See Litchfield, Charles T., assignor.)
Jackman, Miles M. and C. W., Waterloo, Ind. Rotary engine-valve. No. 1,331,711; Feb. 24; v. 271; p. 563.
Jackson, Alfred A., Denver, Colo. Means for introducing auxiliary air. No. 1,340,228; May 18; v. 274; p. 429.

Digitized by Google

Alphabetical list of patentees—Continued.

Jackson, Anthony G., Philadelphia, Pa. Crank-case reinforcement or repair arm. No. 1,332,840; Mar. 2; v. 272; p. 127.
Jackson, Avis, East St. Louis, Ill. Automobile-lock. No. 1,327,432; Jan. 6; v. 270; p. 108.
Jackson, Avis, East St. Louis, Ill. Automobile-lock. No. 1,340,051; May 11; v. 274; p. 338.
Jackson, Carl J., Superior, Wis. Door construction. No. 1,332,441; Mar. 2; v. 272; p. 51.
Jackson Compressor Company, The. (See Jackson, Henry O., assignor.) (Reissue.)
Jackson, Corwill, Kalamazoo, Mich. Tamper. No. 1,329,049; Jan. 27; v. 270; p. 534.
Jackson, Corwill, Kalamazoo, Mich. Drilling, riveting, and like machine. No. 1,338,019; Apr. 27; v. 273; p. 643.
Jackson, Corwill, Kalamazoo, Mich. Grinder. No. 1,344,133; June 22; v. 275; p. 676.
Jackson, Corwill, Kalamazoo, Mich. Grinder. No. 1,346,893; July 20; v. 276; p. 430.
Jackson, Corwill, Kalamazoo, Mich. Tamper. No. 1,361,261; Dec. 7; v. 281; p. 55.
Jackson Cushion Spring Company. (See Edwards, Henry E., assignor.)
Jackson Cushion Spring Company. (See Smith, W. E., Wilcox, and Franz, assignors.)
Jackson, Edith A., Prahran, near Melbourne, Victoria, Australia. Device for cleansing the interior of bottles and other receptacles. No. 1,350,807; Aug. 24; v 277; p. 693.
Jackson, Edward J., Willcox, Ariz. Self-oiling vehicle-spring. No. 1,343,453; June 15; v. 275; p. 476.
Jackson Fence Company. (See Mills, Anson C., assignor.)
Jackson, George B., Chicago, Ill. Friction transmission for motor-driven vehicles. No. 1,327,206; Jan. 6; v. 270; p. 61.
Jackson, George B., Philadelphia, Pa. Trainman's kit. No. 1,341,559; May 25; v. 274; p. 755.
Jackson, George B., Chicago, Ill. Radiator and process of and apparatus for producing same. No. 1,350,022; Aug. 17; v. 277; p. 493.
Jackson, George F. (See Loweree, Jackson, and Gleason.)
Jackson, George E., assignor to The Greaves-Klusman Tool Company, Cincinnati, Ohio. Belt-shifter. No. 1,335,736; Apr. 6; v. 273; p. 6.
Jackson, George W., Belleville, Ill. Hoisting-truck. No. 1,355,479; Oct. 12; v. 279; p. 256.
Jackson, Gilbert, New York, N. Y. Bottle-valve. No. 1,348,116; July 27; v. 276; p. 729.
Jackson, Harry, Brooklyn, N. Y. Pump. No. 1,339,347; May 4; v. 274; p. 128.
Jackson, Henry M., Montreal, Quebec, Canada. Spring-bed. No. 1,344,636; June 29; v. 275; p. 840.
Jackson, Henry O., assignor to The Jackson Compressor Company, Denver, Colo. Check-valve. (Reissue.) No. 14,943; Aug. 31; v. 277; p. 935.
Jackson, Henry O., assignor to The Jackson Compressor Company, Denver, Colo. Rotary air-compressor. No. 1,352,750; Sept. 14; v. 278; p. 237.
Jackson, Henry O., assignor to The Jackson Compressor Company, Denver, Colo. Rotary air-compressor. No. 1,352,751; Sept. 14; v. 278; p. 237.
Jackson, John L., River Forest, Ill. Indicator for pneumatic tires. No. 1,346,961; July 20; v. 276; p. 448.
Jackson, John W., Henryetta, Okla. Telegraph-sounder. No. 1,329,905; Feb. 3; v. 271; p. 105.
Jackson, Joseph W., Anderson, Ind. Electric butt-welding and molding device for metal wheel-rims. No. 1,348,948; Aug. 10; v. 277; p. 210.
Jackson, Leo F. (See Irwin and Jackson.)
Jackson, Lester P., Lordsburg, N. Mex. Dirigible headlight. No. 1,362,703; Dec. 21; v. 281; p. 440.
Jackson, Minnesota B., Guthrie, Okla. Brassière. No. 1,361,115; Dec. 7; v. 281; p. 34.
Jackson, Munsell B., Jr. (See Clipsham, K. M., and Jackson, Jr.)
Jackson, Olcott, assignor to Hecla Iron Works, Brooklyn, N. Y. Grating and constructing same. No. 1,356,151; Oct. 19; v. 279; p. 428.
Jackson, Oscar, assignor of forty-eight one-hundredths to O. E. Newman, Danville, Ill. Railway-signal. No. 1,338,632; Apr. 27; v. 273; p. 758.
Jackson, Patrick T., Jr., Cambridge, assignor to Paper Products Machine Company, Boston, Mass. Paper bag or container. No. 1,333,717; Mar. 16; v. 272; p. 405.
Jackson, Patrick T., Jr., Cambridge, assignor to Paper Products Machine Company, Boston, Mass. Paper-reinforcing machine. No. 1,333,718; Mar. 16; v. 272; p. 405.
Jackson, Patrick T., Jr., Cambridge, assignor to Paper Products Machine Company, Boston, Mass. Reinforced paper. No. 1,335,058; Mar. 30; v. 272; p. 763.
Jackson, Philip T., Toronto, Ontario, Canada. Cooking apparatus. No. 1,329,408; Feb. 3; v. 271; p. 12.
Jackson, Robert E., and B. O. Yearwood, Princeton, W. Va. Transmission-gearing. No. 1,340,486; May 18; v. 274; p. 478.
Jackson, Roy A., Springfield, N. J. Apparatus for teaching arithmetic. No. 1,340,052; May 11; v. 274; p. 338.
Jackson, Thomas C. (See Rodgers, R. E., and Jackson.)
Jackson, Thomas H., Philadelphia, Pa. Electric lantern. No. 1,333,077; Mar. 9; v. 272; p. 224.
Jackson, Walter A., Laurel, Ind. Tractor-steering control for plowing. No. 1,349,342; Aug. 10; v. 277; p. 288.
Jackson, Walter B. (See Reeder, Leonard F., and Jackson.)
Jackson, Walter C., Denver, Colo. Ironing-board fastener. No. 1,337,073; Apr. 13; v. 273; p. 320.
Jackson, Walter M., New York, N. Y. Slitting attachment for cigars. No. 1,345,677; July 6; v. 276; p. 68.
Jackson, Walter W., Sewaren, N. J., assignor to The Regina Company, New York, N. Y. Brush for vacuum-cleaners. No. 1,355,978; Oct. 19; v. 279; p. 393.
Jackson, Walter W., Sewaren, and C. Paulsen, Rahway, N. J., assignors to The Regina Company. Convertible sound-box for talking-machines. No. 1,329,906; Feb. 3; v. 271; p. 105.
Jackson, William. (See Izod, Norman H., assignor.)
Jackson, William P. (See Harris, G. H., and Jackson.)
Jackson, William S., Toronto, Ontario, Canada. Peat-drier. No. 1,334,495; Mar. 23; v. 272; p. 596.
Jacob, Charles S., Elizabeth, N. J. Sketching-board. No. 1,356,719; Oct. 26; v. 279; p. 586.
Jacob, Ernst A. H., San Antonio, Tex. Cotton-tramper. No. 1,352,129; Sept. 7; v. 278; p. 80.
Jacob, Julius, *et al.* (See Gardner, William E., assignor.)
Jacob, Thomas H., Wausau, Wis. Front-axle-radius-rod structure. No. 1,347,286; July 20; v. 276; p. 507.
Jacob, Thomas H., Wausau, Wis. Motor-vehicle rear-axle stand. No. 1,361,262; Dec. 7; v. 281; p. 56.
Jacobe, Charles C., Riverdale, Calif. Accessory for transmitting power from truck-engines. No. 1,358,212; Nov. 9; v. 280; p. 255.
Jacobi, Edward N. (See Briggs, S. F., and Jacobi.)
Jacobi, Karl J., Roselle Park, N. J., assignor to Pacific Coast Borax Company, New York, N. Y. Recovery of potassium salts and borax. No. 1,349,184; Aug. 10; v. 277; p. 246.
Jacobs, Albert. (See Jacobs, Joseph and A.)
Jacobs, Albert J., *et al.* (See Jacobs, William F., assignor.)
Jacobs, Charles B., assignor, by mesne assignments, to Air Reduction Company, Incorporated, Bloomfield, N. J. Forming nitrogen compounds. No. 1,354,561; Oct. 5; v. 279; p. 23.
Jacobs, Charles C., *et al.* (See Jacobs, William F., assignor.)
Jacobs, Charles F., Chicago, Ill. Welding objects. No. 1,330,446; Feb. 10; v. 271; p. 287.
Jacobs, Charles F., Chicago, Ill. Welding railway-rails. No. 1,330,761; Feb. 10; v. 271; p. 296.
Jacobs, Charles E., Minneapolis, Minn. Toy game apparatus. No. 1,357,778; Nov. 2; v. 280; p. 110.
Jacobs, Charles M., Longmeadow, Mass. Window-sash-locking device. No. 1,344,038; June 22; v. 275; p. 657.
Jacobs, Edwin E., Ashland, Ohio. Program-clock. No. 1,330,944; Feb. 17; v. 271; p. 400.
Jacobs, Ernest H., Schenectady, N. Y., assignor to General Electric Company. Electric switch. No. 1,331,067; Feb. 17; v. 271; p. 423.
Jacobs, Ernest H., Chicago, Ill., assignor to General Electric Company. Electric switch. No. 1,347,779; July 27; v. 276; p. 662.
Jacobs, Ernest H., assignor to Electrical Engineers' Equipment Company, Chicago, Ill. Lightning-arrester and mounting. No. 1,356,720; Oct. 26; v. 279; p. 586.
Jacobs, Frederick, Cincinnati, Ohio. Husking, snapping, and shocking device. No. 1,346,894; July 20; v. 276; p. 430.
Jacobs, George, Detroit, Mich. Resilient wheel. No. 1,352,752; Sept. 14; v. 278; p. 238.
Jacobs, George, Detroit, Mich. Motor-vehicle. No. 1,361,523; Dec. 7; v. 281; p. 110.
Jacobs, George, and F. C. Ruppel, Detroit, Mich. Signal-lamp. No. 1,337,230; Apr. 20; v. 273; p. 424.
Jacobs, George S., assignor to Standard Detroit Tractor Co., Detroit, Mich. Tractor attachment for automobiles. No. 1,335,836; Apr. 6; v. 273; p. 25.
Jacobs, Hannah. (See Jacobs, Harry and H.)
Jacobs, Harry and H., New York, N. Y. Hair-waving comb. No. 1,360,643; Nov. 30; v. 280; p. 893.
Jacobs, Harry and H., New York, N. Y. Piping-stem. No. 1,360,644; Nov. 30; v. 280; p. 894.
Jacobs, Henry W. (See Levy, E. D., and Jacobs.)
Jacobs, Henry, *et al.* (See Jacobs, William F., assignor.)
Jacobs, Jacob A., St. Louis, Mo., assignor to Eisenstadt Manufacturing Company. Cuff-button. No. 1,341,130; May 25; v. 274; p. 671.
Jacobs, Jacob L., New York, N. Y. Stamping-machine. No. 1,360,220; Nov. 23; v. 280; p. 742.
Jacobs, James M. H., assignor, by mesne assignments, to Dayton-Wright Company, Dayton, Ohio. Steering device. No. 1,342,385; June 1; v. 275; p. 150.
Jacobs, Joseph, Lake Charles, La., and A. Jacobs, New York, N. Y. Garment-hanger. No. 1,344,697; June 29; v. 275; p. 852.
Jacobs, Joseph H., Denver, Colo. Automatic cooker. No. 1,341,748; June 1; v. 275; p. 27.
Jacobs, Oliver B., assignor to American Telephone and Telegraph Company, East Orange, N. J. Network-selecting device. No. 1,355,147; Oct. 12; v. 279; p. 190.
Jacobs, Oscar E., Kalamazoo, Mich. Drying and curing lumber. No. 1,333,848; Mar. 16; v. 272; p. 429.

Digitized by Google

Jacobs, Philip C., Chicago, Ill., assignor to H. W. Johns-Manville Company. Flexible pipe-covering. No. 1,329,409; Feb. 3; v. 271; p. 12.
Jacobs, William F., *et al.* (See Jacobs, William F., assignor.)
Jacobs, William F., Toledo, Ohio, assignor to C. C. Jacobs, H. Jacobs, L. Gray, A. J. Jacobs, and W. F. Jacobs. Portable step. No. 1,363,418; Dec. 28; v. 281; p. 618.
Jacobsen, Emil. (See Martin, T. G., and Jacobsen.)
Jacobsen, Emil, assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,332,217; Mar. 2; v. 272; p. 8.
Jacobsen, Emil, assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,346,093; July 6; v. 276; p. 152.
Jacobsen, Emil, assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,349,381; Aug. 10; v. 277; p. 296.
Jacobsen, Emil, Evanston, assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,352,605; Sept. 14; v. 278; p. 208.
Jacobsen, Era C., Oak Park, Ill. Fuel-burning apparatus. No. 1,361,263; Dec. 7; v. 281; p. 56.
Jacobsen, Jens N., assignor of one-half to J. J. Stevenson, Oakland, Calif. Head for heat-exchange coils. No. 1,356,822; Oct. 26; v. 279; p. 606.
Jacobsen, Roy A., St. Louis, Mo. Solder for aluminum. No. 1,341,508; May 25; v. 274; p. 745.
Jacobson, Charles E. (See Loring, W. C., and Jacobson.)
Jacobson, Edward B., assignor to J and B Manufacturing Company, Pittsfield, Mass. Ignition-timer. No. 1,333,587; Mar. 9; v. 272; p. 319.
Jacobson, Edward B., assignor to J and B Manufacturing Company, Pittsfield, Mass. Induction-coil. No. 1,335,837; Apr. 6; v. 273; p. 25.
Jacobson, Eric A., Lindsay, Ontario, Canada. Turbine water-wheel. No. 1,345,493; July 6; v. 276; p. 33.
Jacobson, John, Rockford, Ill. Car-replacer. No. 1,346,962; July 20; v. 276; p. 443.
Jacobson, John H., Jerome, Idaho. Card rack and box. No. 1,335,337; Mar. 30; v. 272; p. 816.
Jacobson, John O., Nielsville, Minn. Potato-cutting machine. No. 1,362,103; Dec. 14; v. 281; p. 271.
Jacobson, Ole, assignor to Safety Burglar Alarm Co., Grand Rapids, Mich. Burglar-alarm. No. 1,344,178; June 22; v. 275; p. 684.
Jacobson, Theodore, Hartford, Conn. Antifriction-bearing. No. 1,343,321; June 15; v. 275; p. 451.
Jacobsson, Axel T., Cleveland, Ohio. Frame for moving-picture screens. No. 1,353,242; Sept. 21; v. 278; p. 393.
Jacobsson, Clas J., New York, N. Y. False bottom for garbage-receptacles. No. 1,341,507; May 25; v. 274; p. 745.
Jacobstein, Hyman. (See Jacobstein, Meyer, and H.)
Jacobstein, Meyer and H., Rochester, N. Y. Cigar-package. No. 1,358,956; Nov. 16; v. 280; p. 450.
Jacobus, Daniel C., Caldwell, N. J. Receptacle-closure device. No. 1,357,708; Nov. 2; v. 280; p. 96.
Jacobus, Daniel C., Caldwell, N. J. Combined shovel and ash-sifter. No. 1,357,709; Nov. 2; v. 280; p. 96.
Jacobus, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Superheat-limiting device. No. 1,328,997; Jan. 27; v. 270; p. 525.
Jacobus, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Heat-economizer. No. 1,329,767; Feb. 3; v. 271; p. 78.
Jacobus, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Steam-boiler economizer and operating same. No. 1,341,213; May 25; v. 274; p. 688.
Jacobus, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Furnace-wall. No. 1,341,645; June 1; v. 275; p. 6.
Jacobus, Edward, Montclair, N. J. Lightning-arrester. No. 1,340,657; May 18; v. 274; p. 510.
Jacobus, Martin R., Ridgefield, N. J. Poultry-feeder. No. 1,359,808; Nov. 23; v. 280; p. 661.
Jacobus, Nelson L., Garden City Estates, N. Y., assignor to The Electro Chemical Engraving Company, Brooklyn, N. Y. Producing figure-wheels and the like. No. 1,357,565; Nov. 2; v. 280; p. 68.
Jacoby, Charles N. (See Richardson, D., and Jacoby.)
Jacoby, Henry C. E. (See Mossay, P. A. H., and Jacoby.)
Jacoby, Raymond E., Philadelphia, Pa. Wrench. No. 1,347,780; July 27; v. 276; p. 663.
Jacoby, Stanley E., and C. J. Edmonds, Brimfield, Ind. Headlight control. No. 1,340,771; May 18; v. 274; p. 531.
Jacocks, Thomas B. (See Gordon, Wiley P., assignor.)
Jacquemin, Auguste F., assignor to Rogers Fibre Company, Kennebunk, Me. Counter-molding machine. No. 1,332,259; Mar. 2; v. 272; p. 16.
Jacquemin, Auguste F., assignor to Rogers Fibre Company, Kennebunk, Me. Doffer mechanism for counter-molding machines. No. 1,346,030; July 6; v. 276; p. 139.
Jacot, Paul, La Chaux-de-Fonds, Switzerland. Oil-lubricator. No. 1,359,069; Nov. 16; v. 280; p. 470.
Jacques, Fernando O., Jr. (See Jaques, Fernando O., Sr., assignor.)
Jacques, George L., Neillsville, Wis. Power transmission. No. 1,336,747; Apr. 13; v. 273; p. 257.
Jacques, George L., Neillsville, Wis. Friction transmission. No. 1,354,486; Oct. 5; v. 279; p. 8.
Jacquet, Robert A., Paris, France. Hair-cutting apparatus. No. 1,333,315; Mar. 9; v. 272; p. 268.
Jaeger, Albert W., *et al.* (See Heitz, Edward L., assignor.)
Jaeger, August, Grand Rapids, Mich. Draw-board fastener. No. 1,348,142; July 27; v. 276; p. 734.
Jaeger, August, Sr., Grand Rapids, Mich. Sliding door. No. 1,354,562; Oct. 5; v. 279; p. 23.
Jaeger, Edward B., and E. H. Heller, assignors to The Hill Pump Valve Company, Chicago, Ill. Aeroplane. No. 1,327,869; Jan. 13; v. 270; p. 246.
Jaeger, Emory F., Chicago, Ill. Support. No. 1,363,321; Dec. 28; v. 281; p. 601.
Jaeger, Hans, Woodside, and W. Kuenzler, New York, N. Y. Salad-dressing. No. 1,354,563; Oct. 5; v. 279; p. 23.
Jaeger, Hans, Woodside, and W. Kuenzler, New York, N. Y. Mayonnaise or salad dressing. No. 1,354,564; Oct. 5; v. 279; p. 23.
Jaeger, Otto, Elkins Park, Pa., assignor to H. S. Kelsey, Boston, Mass. Dispensing-machine. No. 1,327,712; Jan. 13; v. 270; p. 217.
Jaeger, Otto, Elkins Park, Pa., assignor to H. S. Kelsey, Boston, Mass. Coin-dispensing device. No. 1,341,749; June 1; v. 275; p. 27.
Jaeger, William, Menomonie, Wis. Two-blade knife-switch. No. 1,358,554; Nov. 9; v. 280; p. 324.
Jaeger, William J. (See Schlesinger, Henry, assignor.)
Jaenichen, Louis, assignor to The Standard Computing Scale Company, Detroit, Mich. Scale. No. 1,356,287; Oct. 19; v. 279; p. 455.
Jagenberg, Emil, Dusseldorf, Germany. Apparatus for drying yarn windings, particularly of paper yarn. No. 1,330,025; Feb. 3; v. 271; p. 127.
Jagerspacher, Carl, and M. Isler, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Disazodyestuffs dyeing mordanted fibers. No. 1,338,506; Apr. 27; v. 273; p. 735.
Jagger, Frank and R. C., Oldham, England. Musical wind instrument. No. 1,349,722; Aug. 17; v. 277; p. 436.
Jagger, Richard C. (See Jagger, Frank and R. C.)
Jahn, Max H., Mayfield, N. Y. Silo. No. 1,330,118; Feb. 10; v. 271; p. 177.
Jahnke, Charles B. (See Hobart, F. G., and Jahnke.)
Jahns, William, Marathon, Wis. Grain-bag holder. No. 1,337,134; Apr. 13; v. 273; p. 331.
Jahoda, Emil, New York, N. Y. Safety electric welding-torch. No. 1,340,270; May 18; v. 274; p. 436.
Jak Tire Corporation. (See Jakovleff, Alexis, assignor.)
Jaklich, Ivan, Gary, Ind. Folding bedside-crib. No. 1,331,647; Feb. 24; v. 271; p. 551.
Jakob, Victor. (See Mizer, J. J., and Jakob.)
Jakobb, Christian A., New York, N. Y. Work-support. No. 1,362,319; Dec. 14; v. 281; p. 314.
Jakobsen, Andreas. (See Jespersen, J., and Jakobsen.)
Jakobson, Max, New York, N. Y. Cup or box. No. 1,343,726; June 15; v. 275; p. 531.
Jakova-Merturi, Gaspard, Paris, France. Directly and completely transforming and reducing iron ores into iron, steel, or cast-iron. No. 1,329,055; Jan. 27; v. 270; p. 536.
Jakovleff, Alexis, assignor to Jak Tire Corporation, San Francisco, Calif. Multiple-tread pneumatic tire. No. 1,335,710; Mar. 30; v. 272; p. 885.
Jakovleff, Alexis, assignor to Jak Tire Corporation, San Francisco, Calif. Dual sectional pneumatic tire. No. 1,335,711; Mar. 30; v. 272; p. 885.
Jakovleff, Alexis, assignor to Jak Tire Corporation, San Francisco, Calif. Sectional pneumatic tire. No. 1,335,712; Mar. 30; v. 272; p. 885.
Jakovleff, Alexis, assignor to Jak Tire Corporation, San Francisco, Calif. Vehicle-tire. No. 1,335,713; Mar. 30; v. 272; p. 886.
Jakovleff, Alexis, assignor to Jak Tire Corporation, San Francisco, Calif. Vehicle-wheel. No. 1,343,567; June 15; v. 275; p. 500.
Jakubecz, Joseph. (See Kropacz, John, assignor.)
Jakubowski, John, Webster, Mass. Invalid's table. No. 1,332,498; Mar. 2; v. 272; p. 62.
Jakuricz, Joseph. (See Kropacz, John, assignor.)
Jambor, John E., Milwaukee, Wis., assignor to Westinghouse Lamp Company. Tray for lamp-stems or the like. (Reissue.) No. 14,877; June 8; v. 275; p. 362.
James, Albert J., Albuquerque, N. Mex. School-desk. No. 1,361,524; Dec. 7; v. 281; p. 110.
James, Arthur J. (See Davenport, A. L., and James.)
James, Carlton C., Honolulu, Hawaii. Phosphatic fertilizer and manufacturing same. No. 1,348,495; Aug. 3; v. 277; p. 71.
James, Charles A., London, England. Vessel navigable in water, air, or both. No. 1,331,925; Feb. 24; v. 271; p. 604.
James, Charles C. (See James, John M. and C. C.)
James, Edgar, Lincolnton, N. C. Automobile-drive. No. 1,352,131; Sept. 7; v. 278; p. 81.
James, Edward, Cleveland, Ohio. Thread-protector. No. 1,361,525; Dec. 7; v. 281; p. 111.
James, Eugene, Lincolnton, N. C. Automobile-drive. No. 1,352,130; Sept. 7; v. 278; p. 80.

Digitized by Google

Alphabetical list of patentees—Continued.

James, Henry D., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Motor-control system. No. 1,330,589; Feb. 10; v. 271; p. 264.
James, Henry D., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Brake mechanism. No. 1,330,590; Feb. 10; v. 271; p. 264.
James, Henry D., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Controller. No. 1,354,193; Sept. 28; v. 278; p. 628.
James, Henry D., assignor to Westinghouse Electric and Manufacturing Company, Edgewood Park, Pa. Controller. No. 1,362,003; Dec. 14; v. 281; p. 252.
James, Henry V., Radlett, England. Electromagnetic brake. No. 1,327,046; Jan. 6; v. 270; p. 32.
James, Henry V., Radlett, England. Controlling means for electromagnetic feed-reel brakes. No. 1,353,401; Sept. 21; v. 278; p. 424.
James, Ida M. (See Gibson, W. E. F., and James.)
James, Ira W., Woodland Park, Colo. Screwdriver. No. 1,359,384; Nov. 16; v. 280; p. 531.
James, Iver, Seattle, Wash. Extension attachment for carpenters' planes. No. 1,354,651; Oct. 5; v. 279; p. 41.
James, John F., Houston, Tex. Furniture-polish. No. 1,363,419; Dec. 28; v. 281; p. 618.
James, John M. and C. C., New York, N. Y. Advertising apparatus. No. 1,333,920; Mar. 16; v. 272; p. 442.
James, Joseph R., Silver City, Miss. Monument-base. No. 1,363,511; Dec. 28; v. 281; p. 637.
James, Leroy S., Philadelphia, Pa. Swift. No. 1,354,565; Oct. 5; v. 279; p. 23.
James Manufacturing Company. (See Shodron, John G., assignor.)
James, Nephanus E., Birmingham, Ala. Automobile-lock. No. 1,343,870; June 15; v. 275; p. 561.
James, Perry C., Sciota, Ill. Fencepost-clamp. No. 1,330,808; Feb. 17; v. 271; p. 378.
James, Perry C., Macomb, Ill. Metallic fence. No. 1,330,809; Feb. 17; v. 271; p. 378.
James, Robert E. (See Henderson, R. B., and James.)
James, Ulysses S., Newark, N. J. Shock-absorbing vehicle-tire. No. 1,327,478; Jan. 6; v. 270; p. 111.
James, Willard C., Los Angeles, Calif., assignor to F. L. Belknap, Chicago, Ill. Vertically-pivoted wall-bed. No. 1,353,162; Sept. 21; v. 278; p. 378.
James, Willard C., Los Angeles, Calif., assignor to F. L. Belknap, Chicago, Ill. Screened bed having vertical pivots. No. 1,353,163; Sept. 21; v. 278; p. 378.
James, Willard C., Los Angeles, Calif., assignor to F. L. Belknap, Chicago, Ill. Bedroom furniture. No. 1,354,615; Oct. 5; v. 279; p. 34.
James, William A., Providence, R. I. Hair-trimmer. No. 1,338,507; Apr. 27; v. 273; p. 735.
James, William A., Providence, R. I. Hair-cutter. No. 1,353,243; Sept. 21; v. 278; p. 393.
James, William A., Woonsocket, R. I. Milling-cutter. No. 1,351,386; Aug. 31; v. 277; p. 868.
James, William E. (See Copeland, James P., assignor.)
James, William T., Chicago, Ill. Wagon-loading apparatus. No. 1,351,040; Aug. 31; v. 277; p. 800.
James, William T., Chicago, Ill. Mailing-receptacle. No. 1,363,252; Dec. 28; v. 281; p. 587.
Jameson, Charles V., Chicago, Ill. Pneumatic action for musical instruments. No. 1,353,753; Sept. 21; v. 278; p. 495.
Jameson, William, Springfield, assignor to The Fiske Rubber Company, Chicopee Falls, Mass. Apparatus for making strand fabric. No. 1,327,826; Jan. 13; v. 270; p. 238.
Jameson, Winthrop M., Cambridge, Mass. Hose-supporter. No. 1,345,193; June 29; v. 275; p. 946.
Jameson, Winthrop S., Belmont, Mass. Automobile-lock. No. 1,347,463; July 20; v. 276; p. 542.
Jamieson, Frank F., Montreal, Quebec, Canada, assignor to Mechanical Rubber Company. Apparatus for making tobacco-pouches. No. 1,353,477; Sept. 21; v. 278; p. 439.
Jamieson, George G. (See Sweet, F. A., and Jamieson.)
Jamin, Cornelis D. J., Rotterdam, Netherlands. Electro-mechanical chronometer driving mechanism. No. 1,329,083; Jan. 27; v. 270; p. 541.
Jamison, Frank L., Pittsburgh, Pa. Ingot-casting device. No. 1,336,234; Apr. 6; v. 273; p. 100.
Jamison, William, West Homestead, Pa. Curtain-holder. No. 1,334,034; Mar. 16; v. 272; p. 464.
Jancek, Joseph, New York, N. Y. Toy. No. 1,334,954; Mar. 30; v. 272; p. 743.
Janda, John, Noble, Okla. Dirigible airship. No. 1,340,053; May 11; v. 274; p. 338.
Jandron, Wilfred J., Minneapolis, Minn. Dispensing-cabinet. No. 1,343,974; June 22; v. 275; p. 645.
Janes, Clarence, Oneida, N. Y. Projectile. No. 1,329,972; Feb. 3; v. 271; p. 117.
Janes, George H., 3d, Medford, Mass. Boring-tool. No. 1,354,830; Oct. 5; v. 279; p. 76.
Janes, Martin L., New York, N. Y. Combined blood-transfusion and aspirating apparatus. No. 1,346,127; July 13; v. 276; p. 220.
Janesville Products Company. (See Benson, Andrew, assignor.)
Janicki, Andrew, Milwaukee, Wis. Sweat-pad for horse-collars. No. 1,338,931; May 4; v. 274; p. 52.
Janicki, John, assignor to Ursus Motor Company, Chicago, Ill. Speed-reducing mechanism. No. 1,355,607; Oct. 12; v. 279; p. 280.
Janik, Johan, Johnstown, Pa. Ball-joint. No. 1,347,370; July 20; v. 276; p. 525.
Jankower, David. (See Robertson, James H., assignor.)
Jankower, David. (See Robertson, J. H., and Jankower.)
Jankower, David, New York, N. Y. Cylindrical interest-calculator. No. 1,333,078; Mar. 9; v. 272; p. 224.
Jankower, David, New York, N. Y. Disk typewriter. No. 1,337,318; Apr. 20; v. 273; p. 441.
Jankower, David, New York, N. Y. Cylindrical typewriter. No. 1,341,131; May 25; v. 274; p. 871.
Janney, Peyton R., Detroit, Mich. Flexible draft connection. No. 1,327,827; Jan. 13; v. 270; p. 238.
Janney, Peyton R., Detroit, Mich. Cultivator. No. 1,327,828; Jan. 13; v. 270; p. 239.
Janney, Peyton R., Detroit, Mich. Detachable steering device. No. 1,327,829; Jan. 13; v. 270; p. 239.
Janney, Robert E. L. (See Kaney, Alonzo W., assignor.)
Janney, Robert E. L., Chicago, Ill. Carbureter. No. 1,342,445; June 8; v. 275; p. 216.
Janney, Thomas A., Garfield, Utah. Flotation-machine. No. 1,342,115; June 1; v. 275; p. 99.
Janni, Alfredo C., New York, N. Y. Reinforced-concrete vessel and building same. No. 1,342,408; June 1; v. 275; p. 155.
Janot, Louis, Vincennes, assignor to Compagnie Generale Des Etablissements Pathe Freres, Phonographe et Cinematographe, Paris, France. Cinematograph. No. 1,357,566; Nov. 2; v. 280; p. 68.
Jansen, Chester S., Buffalo, N. Y. Vehicle-wheel attachment. No. 1,358,156; Nov. 9; v. 280; p. 245.
Jansen, Henry J., Breese, Ill. Drill. No. 1,332,841; Mar. 2; v. 272; p. 127.
Jansen, Theodore W., Des Moines, Iowa. Machine for burning in and burnishing engine-bearings. No. 1,353,164; Sept. 21; v. 278; p. 378.
Jansen, Victor, Los Angeles, Calif. Painter's striping mechanism. No. 1,341,803; June 1; v. 275; p. 38.
Jansma, Jacob, Hospers, Iowa. Device for holding shingles. No. 1,339,458; May 11; v. 274; p. 226.
Janson, Carl G., and C. J. Braun, Oakland, Calif. Bunk. No. 1,349,962; Aug. 17; v. 277; p. 482.
Janssen, Albert, Sibley, Iowa. Potato-bug-killing machine. No. 1,334,863; Mar. 23; v. 272; p. 666.
Janssen, Henry, assignor to Textile Machine Works, Wyomissing, Pa. Jacquard mechanism. No. 1,339,957; May 11; v. 274; p. 321.
Jantsch, Ernst, Cincinnati, Ohio. Combined armchair and bed. No. 1,346,206; July 13; v. 276; p. 234.
Jantsch, Hugo, and W. E. Guldager, Detroit, Mich. Perpendicularity-indicator. No. 1,345,597; July 6; v. 276; p. 53.
Janzer, Ignatz, Chicago, Ill. Clutch. No. 1,361,585; Dec. 7; v. 281; p. 123.
Jaquemot, Eugène. (See Pattay, M., and Jaquemot.)
Jaques, Fernando O., Sr., Providence, assignor to The Central Tool Company, Cranston, R. I. Micrometer-gage. No. 1,338,932; May 4; v. 274; p. 52.
Jaques, Fernando O., Sr., assignor to F. O. Jaques, Jr., Providence, R. I. Micrometer-caliper. No. 1,349,612; Aug. 17; v. 277; p. 414.
Jaques, Fernando O., Jr., Providence, R. I. Measuring instrument. No. 1,357,323; Nov. 2; v. 280; p. 24.
Jaques, Fernando O., Jr. (See Jaques, Fernando O., Sr., assignor.)
Jaques, Fernando O., Sr., assignor to F. O. Jaques, Jr., Providence, R. I. Micrometer-calipers. No. 1,361,156; Dec. 7; v. 281; p. 35.
Jaques, Rufus S., Spokane, Wash. Automobile-lock. No. 1,340,393; May 18; v. 274; p. 460.
Jardin, Albert A., Congress Park, Ill. Railway-track appliance. No. 1,344,134; June 22; v. 275; p. 676.
Jardine, A. B., & Company. (See Jardine, Peter, assignor.)
Jardine, James C., and J. Dickie, Summerside, Prince Edward Island, Canada. Shoe. No. 1,336,355; Apr. 6; v. 273; p. 123.
Jardine, James C., and J. Dickie, Summerside, Prince Edward Island, Canada. Bridle. No. 1,341,715; June 1; v. 275; p. 20.
Jardine, James C., J. Dickie, and G. A. Bowness, Summerside, Prince Edward Island, Canada. Cart-saddle. No. 1,328,922; Jan. 27; v. 270; p. 511.
Jardine, James L., Penicuik, Scotland, assignor to Bamboo Paper Company, Limited, London, England. Apparatus for preparing bamboo and kindred material for pulp extraction. No. 1,329,973; Feb. 3; v. 271; p. 117.
Jardine, Peter, assignor to A. B. Jardine & Company, Limited, Hespeler, Ontario, Canada. Collapsible tap. No. 1,362,799; Dec. 21; v. 281; p. 459.
Jardine, Peter, assignor to A. B. Jardine & Co., Limited, Hespeler, Ontario, Canada. Collapsible tap. No. 1,362,800; Dec. 21; v. 281; p. 460.
Jarman, Alfred R., Philadelphia, Pa., assignor of one-half to R. G. Granville, New York, N. Y. Oscillating valve. No. 1,339,110; May 4; v. 274; p. 86.
Jarmie, Michael, East Haven, Conn. Spring-lubricator. No. 1,342,172; June 1; v. 275; p. 110.

Digitized by Google

Jarrett, Edwin S., New York, N. Y. Mixing-container. No. 1,332,985; Mar. 9; v. 272; p. 206.
Jarrett, Lois E., Asheville, N. C. Stovepipe-thimble. No. 1,333,486; Mar. 9; v. 272; p. 300.
Jarry, Frederick, New Bedford, Mass. Tension device for spooling-machines. No. 1,329,341; Jan. 27; v. 270; p. 588.
Jarusz, Leon, Milwaukee, Wis. Floor-washing machine. No. 1,329,604; Feb. 3; v. 271; p. 49.
Jarvies, Thomas B., Kansas City, Mo. Oil-burner. No. 1,334,456; Mar. 23; v. 272; p. 589.
Jarvis, Edward H. (See Groves, C. D., Jarvis, and Bradbury.)
Jarvis, Herbert C., Renton, assignor to Pacific Car & Foundry Co., Seattle, Wash. Brake-operating means for trailers. No. 1,336,235; Apr. 6; v. 273; p. 100.
Jarvis, Herbert C., Toronto, Ontario, Canada. Taping-machine. No. 1,355,228; Oct. 12; v. 279; p. 207.
Jarvis, John G., Stamford, N. Y. Acetyl cellulose composition and making same. No. 1,343,135; June 8; v. 275; p. 352.
Jarvis, John G., Stamford, N. Y. Pyroxylin sheet of low inflammability. No. 1,349,156; Aug. 10; v. 277; p. 251.
Jarvis, John G., Stamford, N. Y. Making pyroxylin products. No. 1,351,652; Aug. 31; v. 277; p. 921.
Jarvis, John G., Stamford, N. Y. Nitrocellulose film of low inflammability. No. 1,354,401; Sept. 28; v. 278; p. 670.
Jarvis, Marshall N., Gildersleeve, Conn. Holder for metal-working machines. No. 1,361,730; Dec. 7; v. 281; p. 150.
Jasina, John, Detroit, Mich. Telephone-reminder. No. 1,337,319; Apr. 20; v. 273; p. 441.
Jasper, Joseph H., Philadelphia, Pa. Dump-wagon. No. 1,328,923; Jan. 27; v. 270; p. 511.
Jasper, Virgil G., Elyria, Ohio. Penwiper. No. 1,347,164; July 20; v. 276; p. 483.
Jasura, Peter, Sparta, assignor of one-half to J. Krutal, Gilbert, Minn. Rail-tie. No. 1,334,613; Mar. 23; v. 272; p. 618.
Jaubert, Jessie F., *et al.* (See Feitel, Isaac, assignor.)
Javelet, Albert, New Orleans, La. Amusement device. No. 1,343,136; June 8; v. 275; p. 352.
Jay, Webb. (See Lepère, Eugène M. G., assignor.)
Jay, Webb, Chicago, Ill. Signal device for automobiles. No. 1,330,076; Feb. 10; v. 271; p. 168.
Jayne, Irving, Edwall, Wash. Differential. No. 1,361,731; Dec. 7; v. 281; p. 151.
Jayne, Robert K., Jackson, Miss. Sleeping-cabinet. No. 1,353,754; Sept. 21; v. 278; p. 495.
Jaynes, Charles B., Kansas City, Mo. Eaves-trough. No. 1,356,368; Oct. 19; v. 279; p. 470.
Jeal, Willie S., West Norwood, London, England. Means for starting internal-combustion engines. No. 1,359,896; Nov. 280; p. 678.
Jeannet, Lazare P. X., Paris, France. Thermometer operated by the pressure of saturated vapor. No. 1,343,454; June 15; v. 275; p. 477.
Jeannotte, Charles E., Montreal, Quebec, Canada. Water-heater. No. 1,337,473; Apr. 20; v. 273; p. 469.
Jeannotte, Charles E., Montreal, Quebec, Canada. Radiator. No. 1,342,680; June 8; v. 275; p. 261.
Jeans, Allen E., and P. T. Hayes, Liverpool, England. Apparatus for automatically feeding the melting-pots of type-bar-making machines. No. 1,326,936; Jan. 6; v. 270; p. 10.
Jeans, Allan E., and P. T. Hayes, Liverpool, England. Metal-pot of type-bar-making machines. No. 1,331,264; Feb. 17; v. 271; p. 458.
Jeans, Allan E., and P. T. Hayes, Liverpool, England. Metal-pot of type-bar-making machines. No. 1,332,842; Mar. 2; v. 272; p. 127.
Jeantin, Antoine, Geneva, Switzerland. Suspension device. No. 1,345,089; June 29; v. 275; p. 926.
Jebsen, Gustav, assignor, by mesne assignments, to Titan Co. A/S., Christiania, Norway. Extracting titanium compounds from titaniferous material and the product obtained thereby. No. 1,333,819; Mar. 16; v. 272; p. 423.
Jebsen, Gustav, assignor to Titan Co. A/S., Christiania, Norway. Elimination of undesired acid substances from titanium hydrates and the product obtained thereby. No. 1,361,866; Dec. 14; v. 281; p. 224.
Jebsen, Gustav, assignor, by mesne assignments, to Titan Co. A/S., Christiania, Norway. Removal of undesired acid substance from titanium hydrates and the product obtained thereby. No. 1,361,867; Dec. 14; v. 281; p. 224.
Jefferies, Charlie Q., Fort Worth, Tex. Rotary engine. No. 1,338,304; Apr. 27; v. 273; p. 697.
Jefferies-Norton Corporation. (See Norton, Fred E., assignors.)
Jefferies, Richard H., Richmond, Va. Device to prevent mouth-breathing. No. 1,354,652; Oct. 5; v. 279; p. 41.
Jefferis, Richard W., Philadelphia, Pa. Rack for shelving. No. 1,341,852; June 1; v. 275; p. 47.
Jeffers, Bert H., Chicago, Ill. Attachment for furniture-legs. No. 1,329,605; Feb. 3; v. 271; p. 49.
Jeffers, Owen R., assignor to General Patent Manufacturing Company, Chicago, Ill. Bathing-cap. No. 1,349,206; Aug. 10; v. 277; p. 261.
Jefferson, Benjamin H., and W. I. Kirk, assignors to Lyon & Healy, Chicago, Ill. Piano-pedal and like device. No. 1,353,755; Sept. 21; v. 278; p. 496.
Jefferson, Daniel H., Los Angeles, assignor to F. E. Andeis, Alhambra, Calif. Gaging means. No. 1,352,270; Sept. 7; v. 278; p. 107.
Jeffery De Witt Company. (See Johnston, Robert M., assignor.)
Jeffrey Manufacturing Company, The. (See Ball, Albert, assignor.)
Jeffrey Manufacturing Company, The. (See Briggs, Robert E., assignor.)
Jeffrey Manufacturing Company, The. (See Dunlop, Robert R., assignor.)
Jeffrey Manufacturing Company, The. (See Fowler, John T., assignor.)
Jeffrey Manufacturing Company. (See Holmes, Morris P., assignor.)
Jeffrey Manufacturing Company, The. (See Jeffrey, Robert H., assignor.)
Jeffrey Manufacturing Company, The. (See Levin, Nils D., assignor.)
Jeffrey Manufacturing Company, The. (See Liggett, William K., asignor.)
Jeffrey, Robert H., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining-machine. No. 1,354,831; Oct. 5; v. 279; p. 77.
Jeffrey, William G., Reading, Mass. Reed-organ pipe. No. 1,359,897; Nov. 23; v. 280; p. 678.
Jeffries, Carl F., Detroit, Mich. Internal-combustion engine. No. 1,340,229; May 18; 274; p. 429.
Jeffries, John H. (See Doherty, E. M., and Jeffries.)
Jeffries, Oscar S., Sr., assignor to J. B. Miller, Philadelphia, Pa. Variable-speed, mechanism. No. 1,337,602; Apr. 20; v. 273; p. 494.
Jeffries, Oscar S., Sr., assignor of one-half to G. W. Kirk, Philadelphia, Pa. Shock-absorber. No. 1,350,318; Aug. 24; v. 277; p. 596.
Jeffries, Oscar S., Sr., assignor of one-half to G. W. Kirk, Philadelphia, Pa. Muffler. No. 1,353,478; Sept. 21; v. 278; p. 489.
Jeffries, Winfield S., Great Falls, Mont. Seed-separating device. No. 1,350,973; Aug. 24; v. 277; p. 724.
Jeffries, Z., and W. A. Gibson, assignors to The Aluminum Castings Company, Cleveland, Ohio. Alloy. No. 1,352,271; Sept. 7; v. 278; p. 107.
Jeffries, Z., and W. A. Gibson, assignors to The Aluminum Castings Company, Cleveland, Ohio. Alloy. No. 1,352,272; Sept. 7; v. 278; p. 107.
Jeffries, Zay. (See Wesson and Jeffries.)
Jeffries, Zay, East Cleveland, assignor to The Aluminum Castings Company, Cleveland, Ohio. Internal-combustion motor. No. 1,347,479; July 20; v. 276; p. 545.
Jeffries, Zay, East Cleveland, assignor to The Aluminum Castings Company, Cleveland, Ohio. Internal-combustion motor. No. 1,347,480; July 20; v. 276; p. 545.
Jeffries, Zay, East Cleveland, assignor to The Aluminum Castings Company, Cleveland, Ohio. Making castings. No. 1,347,481; July 20; v. 276; p. 545.
Jelinek, Anton, Elizabeth, N. J. Violin-bow. No. 1,327,433; Jan. 6; v. 270; p. 103.
Jelinek, Rudolph, Chicago, Ill. Toy gun. No. 1,332,556; Mar. 2; v. 272; p. 73.
Jelley, Henry. (See Jelley, James and H.)
Jelley, James. Coventry, and H. Jelley, Birmingham, England. Producing composite rubber and fabric cycle saddle-tops. No. 1,358,957; Nov. 16; v. 280; p. 450.
Jemison, Elden H. (See Gustin, William M., assignor.)
Jemmison, John W., assignor to Clayton & Company (Huddersfield) Limited, Huddersfield, England. Road-sweeping machine. No. 1,328,521; Jan. 20; v. 270; p. 406.
Jenclek, Stephen, assignor to G. A. Schanze, Cleveland, Ohio. Indicating mechanism. No. 1,331,771; Feb. 24; v. 271; p. 574.
Jenckes Knitting Machine Company. (See Miller, Max C., assignor.)
Jenckes, Lawrence B., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft-bobbin. No. 1,337,706; Apr. 20; v. 273; p. 514.
Jenckes Spinning Company. (See Wood, William P., assignor.)
Jendryke, Benjamin, San Francisco, Calif. Resilient wheel. No. 1,354,304; Sept. 28; v. 278; p. 650.
Jenglowski, Karol, Chicago, Ill. Combination davenport, bed, and table. No. 1,357,567; Nov. 2; v. 280; p. 69.
Jenkins, Alexander F., Baltimore, Md. Truck for portable lights. No. 1,341,235; May 25; v. 274; p. 692.
Jenkins, Alexander H., assignor to J. B. Brooks and Company Limited, Birmingham, England. Fastening or securing device. No. 1,346,655; July 13; v. 276; p. 324.
Jenkins, Arthur H., Ruleville, Miss. Motor-repair stand. No. 1,341,322; May 25; v. 274; p. 708.
Jenkins, Benjamin, Washington, D. C. Flushing device for lavatory-bowls. No. 1 329,840; Feb. 3; v. 271; p. 93.
Jenkins, Benjamin, Washington, D. C. Plumbing device. No. 1,330,377; Feb. 10; v. 271; p. 224.
Jenkins, Charles, Delevan, N. Y. Potato-grader. No. 1,345,858; July 6; v. 276; p. 104.

Digitized by Google

Jenkins, Charles F., assignor to The Graphoscope Company, Washington, D. C. Picture-projecting apparatus. No. 1,327,280; Jan. 6; v. 270; p. 75.
Jenkins, Charles F., Washington, D. C. Flexible reinforced transparent sheet. No. 1,327,281; Jan. 6; v. 270; p. 75.
Jenkins, Charles F., assignor to The Graphoscope Company, Washington, D. C. Motion-picture machine. No. 1,342,681; June 8; v. 275; p. 261.
Jenkins, Charles F., Washington, D. C. Film-reel. No. 1,343,628; June 15; v. 275; p. 511.
Jenkins, Charles F., Washington, D. C. Limiting combustion of picture-films. No. 1,348,177; Aug. 3; v. 277; p. 9.
Jenkins, Charles F., Washington, D. C. Fire-extinguisher for motion-picture apparatus. No. 1,348,565; Aug. 3; v. 277; p. 85.
Jenkins, Charles F., Washington, D. C. Motion-picture framing. No. 1,348,566; Aug. 3; v. 277; p. 85.
Jenkins, Charles W., Ellerson, assignor of one-half to L. B. Hancock, Richmond, Va. Auxiliary air and water supplying device. No. 1,351,170; Aug. 31; v. 277; p. 824.
Jenkins, Clarence E., Keene, N. H. Potato-masher. No. 1,349,885; Aug. 17; v. 277; p. 467.
Jenkins, D. C., Glass Company. (See Jenkins, David A., assignor.)
Jenkins, David, and L. G. Willson, Glens Falls, N. Y. Journal-box. No. 1,359,898; Nov. 23; v. 280; p. 678.
Jenkins, David A., assignor to D. C. Jenkins Glass Company, Kokomo, Ind. Removable top for pitchers and the like. No. 1,344,404; June 22; v. 275; p. 729.
Jenkins, David W., Seattle, Wash., assignor to Henry Disston & Sons, Incorporated, Philadelphia, Pa. Detachable-tooth saw. No. 1,337,016; Apr. 13; v. 273; p. 309.
Jenkins, Edward W., Norristown, Pa. Machine for tying bundles, &c. No. 1,339,396; May 11; v. 274; p. 213.
Jenkins, Evan H., Abertillery, England. Rear-springing device for motorcycles or tricars. No. 1,347,100; July 20; v. 276; p. 470.
Jenkins, Frank E., Medford, Oreg. Valve-spring compressor. No. 1,351,424; Aug. 31; v. 277; p. 876.
Jenkins, George M. O., Paris, France, assignor to Western Electric Company, Incorporated, New York, N. Y. Portable telephone set. No. 1,354,908; Oct. 5; v. 279; p. 92.
Jenkins, Henry C., London, England. Electrolytic cell. No. 1,335,338; Mar. 30; v. 272; p. 816.
Jenkins, Jennie A., executrix. (See Jenkins, Thomas W.)
Jenkins, Joseph R. (See Crapo, Standford T., and Jenkins, assignors.)
Jenkins, Massey P., Newport News, Va. Sealed lock for car-doors. No. 1,349,280; Aug. 10; v. 277; p. 276.
Jenkins, Parker, Philadelphia, Pa. Dimmer-shield for lamps. No. 1,346,497; July 13; v. 276; p. 293.
Jenkins, Robert C., Bessemer, Ala. Automobile-lock. No. 1,352,132; Sept. 7; v. 278; p. 81.
Jenkins, Stanley S., Chicago, Ill. Means for lifting and transporting invalids. No. 1,349,674; Aug. 17; v. 277; p. 426.
Jenkins, Thomas W., deceased, Philadelphia, Pa.; J. A. Jenkins executrix. Elevator interlocking device. No. 1,336,748; Apr. 13; v. 273; p. 257.
Jenkins, William M., and W. H. Vaughan, Dallas, Tex. Ventilated body-garment. No. 1,363,981; Dec. 28; v. 281; p. 728.
Jenkins, Wilton F., Richmond, Va. Temperature-indicator for automobile-radiators. No. 1,340,830; May 18; v. 274; p. 542.
Jenks, Edward T., Gary, Ind. Chain-type lathe-dog. No. 1,330,710; Feb. 10; v. 271; p. 286.
Jenner, James W., Louisville, Ky. Engraving-plate holder. No. 1,347,101; July 20; v. 276; p. 471.
Jennerich, John, *et al.* (See Wickliffe, Charles E., assignor.)
Jenney, Arthur C. (See Crosby, Edwin F., assignor.)
Jennings, Arthur B., New York, N. Y. Air-lift footpiece. No. 1,343,510; June 15; v. 275; p. 488.
Jennings, Arthur V., assignor to V. J. Kubanyi, New York, N. Y. Fruit-pitting machine. No. 1,361,765; Dec. 7; v. 281; p. 157.
Jennings, Chester S., assignor to The Lamson Company, Boston, Mass. Twist-belt conveyer for newspapers and the like. No. 1,332,900; Mar. 9; v. 272; p. 190.
Jennings, Chester S., Wellesley Farms, assignor to The Lamson Company, Boston, Mass. Carrier. No. 1,332,901; Mar. 9; v. 272; p. 190.
Jennings, David J., Cleveland, Ohio. Device for making paper receptacles. No. 1,346,827; July 20; v. 276; p. 417.
Jennings, Emerson P., Lehighton, Pa. Gripping device for sheets of paper and the like. No. 1,337,231; Apr. 20; v. 273; p. 424.
Jennings, Emerson P., Jr., Lehighton, Pa. Sheet-feeding mechanism. No. 1,342,629; June 8; v. 275; p. 250.
Jennings, Emerson P., Jr., Lehighton, Pa. Sheet-separating device. No. 1,342,630; June 8; v. 275; p. 251.
Jennings, Emerson P., Lehighton, Pa. Roller-carriage for printing-presses and the like. No. 1,355,979; Oct. 19; v. 279; p. 393.
Jennings, Henry, Eureka, Ill. Tire-pump-driving mechanism. No. 1,356,451; Oct. 19; v. 279; p. 486.
Jennings, John E., Brooklyn, N. Y., assignor to Milliken Brothers Mfg. Co. Inc. Building construction. No. 1,342,021; June 1; v. 275; p. 80.
Jennings, John T., Birmingham, England. Carbureter. No. 1,349,835; Aug. 17; v. 277; p. 457.
Jennings, McKinley, Detroit, Mich. Corn-planter and fertilizer-distributer. No. 1,342,338; June 1; v. 275; p. 140.
Jennings, Morris W., *et al.* (See Bridges, William H., assignor.)
Jennings, Myron A., Santa Cruz, Calif. Die for power-hammers. No. 1,337,474; Apr. 20; v. 273; p. 470.
Jennings, Oliver S., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Mechanical rectifier and means for improving the operation of the same. No. 1,336,564; Apr. 13; v. 273; p. 222.
Jennings, Richard, *et al.* (See Musebeck, George E., assignor.)
Jennings, Robert G., Elmira, N. Y. Yarn-cleaner. (Reissue.) No. 14,818; Mar. 16; v. 272; p. 508.
Jennings, Victor H., assignor, by mesne assignments, to Mills Woven Cartridge Belt Company, Worcester, Mass. Receptacle or pocket and making same. No. 1,338,776; May 4; v. 274; p. 24.
Jennings, Victor H., Worcester, Mass., assignor to Universal Patents Company, Woonsocket, R. I. Machine-gun belt and the like. No. 1,346,207; July 13; v. 276; p. 235.
Jennings, Victor H., Worcester, Mass., assignor to Universal Patents Company, Woonsocket, R. I. Machine-gun belt and the like. No. 1,346,208; July 13; v. 276; p. 235.
Jennings, Victor H., assignor, by mesne assignments, to F. R. Batchelder, Worcester, Mass. Woven pocketed carrier. No. 1,352,133; Sept. 7; v. 278; p. 81.
Jennings, Victor H., Worcester, Mass., assignor, by mesne assignments, to F. R. Batchelder. Woven carrier. No. 1,352,453; Sept. 14; v. 278; p. 177.
Jennings, William, Camp Nelson, and C. J. Armstrong, Louisville, Ky. Surgical-bandage heater and wringer. No. 1,340,772; May 18; v. 274; p. 532.
Jennison, Harry G., Toledo, Ohio. Block-pavement. No. 1,340,896; May 25; v. 274; p. 626.
Jennison, Jesse, and G. H. Higgins, Cortland, N. Y. Bow. No. 1,361,157; Dec. 7; v. 281; p. 35.
Jensen, Agnes M., administratrix. (See Jensen, Rasmus.)
Jensen, Carl W., Winifred, Mont. Method and apparatus for conducting mining operations. No. 1,332,986; Mar. 9; v. 272; p. 207.
Jensen, Christ. (See Eichler, A., and Jensen.)
Jensen, Frederik, Rochester, N. Y. Fuel-tank for internal-combustion engines. No. 1,350,808; Aug. 24; v. 277; p. 693.
Jensen, George C., Oakland, Calif. Shifter-device lock. No. 1,329,526; Feb. 3; v. 271; p. 85.
Jensen, George C., Oakland, Calif. Transmission-lock. No. 1,332,902; Mar. 9; v. 272; p. 190.
Jensen, George C., Oakland, Calif. Lock, retainer, and interlock for shifter devices. No. 1,337,654; Apr. 20; v. 273; p. 504.
Jensen, George C., Oakland, Calif. Automobile-lock. No. 1,342,748; June 8; v. 275; p. 275.
Jensen, George C., Oakland, Calif. Shift-block lock and retainer. No. 1,348,802; Aug. 3; v. 277; p. 129.
Jensen, George C., Oakland, Calif. Lock for shifter-blocks. No. 1,348,803; Aug. 3; v. 277; p. 129.
Jensen, Harry G. (See Foss, G. E., and Jensen.)
Jensen, Karl K., Berkeley, Calif. Portable bath-shower. No. 1,336,034; Apr. 6; v. 273; p. 63.
Jensen, Lawrence, Wickliffe, Ohio. Wall-papering machine. No. 1,331,436; Feb. 17; v. 271; p. 491.
Jensen, Lawrence H., St. Charles, Ill. Pump. No. 1,362,004; Dec. 14; v. 281; p. 252.
Jensen, Niels C. F., Southall, England. Preservation of metal and metallic articles. No. 1,354,487; Oct. 5; v. 279; p. 8.
Jensen, Olaf. (See Bergve, E., and Jensen.)
Jensen, Otto H., assignor to The Republic Metalware Company, Buffalo, N. Y. Beading-machine. No. 1,344,405; June 22; v. 275; p. 729.
Jensen, Peter, Wayne, Alberta, Canada. Reversing-fan. No. 1,347,377; July 20; v. 276; p. 525.
Jensen, Peter, and H. Hansen, Trenton, N. J. Quick-detachable nut. No. 1,360,297; Nov. 30; v. 280; p. 825.
Jensen, Peter L. (See Pridham and Jensen.)
Jensen, Peter L., assignor to The Magnavox Company, San Francisco, Calif. Telephone-transmitter. No. 1,332,873; Mar. 2; v. 272; p. 133.
Jensen, Peter W., Princeton, Minn. Halter. No. 1,340,271; May 18; v. 274; p. 437.
Jensen, Rasmus, deceased, Los Angeles, Calif.; A. M. Jensen, administratrix. Carbureter. No. 1,333,982; Mar. 16; v. 272; p. 454.
Jensen, Rasmus, deceased, Los Angeles, Calif.; A. M. Jensen, administratrix. Carbureter. No. 1,343,455; June 15; v. 275; p. 477.
Jensen, Victor G., Chicago, Ill. Multiple-fuse plug. No. 1,359,174; Nov. 16; v. 280; p. 489.
Jenson, Ole E., Rosebeg, Alberta, Canada. Pouring-spout lid and strainer. No. 1,344,039; June 22; v. 275; p. 658.

Digitized by Google

Jepson, John W., Buffalo, N. Y. Fastening and take-up device for antiskid-chains. No. 1,330,591; Feb. 10; v. 271; p. 264.
Jerabek, Charles, assignor to Louis Rothschild, Philadelphia, Pa. Auto-tire-tube carrier. No. 1,351,517; Aug. 31; v. 277; p. 894.
Jerdone, Francis, Jr., assignor to Industrial Research Corporation, Toledo, Ohio. Fuel-reserve-supply system. No. 1,357,986; Nov. 9; v. 280; p. 211.
Jerdone, Francis, Jr., assignor to Industrial Research Corporation, Toledo, Ohio. Fuel-reserve-supply system. No. 1,357,987; Nov. 9; v. 280; p. 211.
Jerdone, Francis, Jr., assignor to Industrial Research Corporation, Toledo, Ohio. Fuel-reserve-supply system. No. 1,357,988; Nov. 9; v. 280; p. 211.
Jermain, Herbert F., assignor to Winchester Repeating Arms Co., New Haven, Conn. Coloring iron or steel articles. No. 1,342,910; June 8; v. 275; p. 308.
Jermyn, Percy V., Port Credit, Ontario, Canada. Toy. No. 1,345,000; June 29; v. 275; p. 911.
Jerome, William E., Rockville Center, N. Y. Lighting-fixture. No. 1,350,809; Aug. 24; v. 277; p. 693.
Jerram, Arthur E. (See Bassett, R. W. C., and Jerram.)
Jerram, Arthur E. (See Goddard, J. W., and Jerram.)
Jerram, Arthur E., Leicestershire, England. Precision machine-tool. No. 1,344,536; June 22; v. 275; p. 755.
Jerram, Arthur E., and J. Gouldbourn, Leicester, England, assignors, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Work-support. No. 1,359,507; Nov. 23; v. 280; p. 601.
Jerrim, James H., Bromsgrove, England. Machine or other vise. No. 1,349,963; Aug. 17; v. 277; p. 482.
Jerve, Ole H. (See Hildahl, George J., assignor.)
Jeske, E. R., *et al.* (See Gauger, Frank A., assignor.)
Jesnig, Charles, Philadelphia, Pa. Universal work-holder. No. 1,341,646; June 1; v. 275; p. 6.
Jespersen, Jens, and A. Jakobsen, Skjern, Denmark. Squaring-up machine with electric motor. No. 1,331,992; Feb. 24; v. 271; p. 617.
Jesse, Eoline B., Nuttsville, Va. Pie-plate holder. No. 1,351,387; Aug. 31; v. 277; p. 869.
Jessen, Arnold H., assignor to Hydraulic Clutch Company, Los Angeles, Calif. Variable-speed power-transmitting device. No. 1,336,749; Apr. 13; v. 273; p. 258.
Jessen, Arnold H., assignor to Big Four Wheel Company, Los Angeles, Calif. Variable-speed device. No. 1,350,255; Aug. 17; v. 277; p. 538.
Jessen, James, assignor of one-half to J. A. McNulty, Minneapolis, Minn. Internal-combustion engine and charging same. No. 1,330,874; Feb. 17; v. 271; p. 386.
Jessen, James, assignor to The Line Drive Tractor, Inc., Milwaukee, Wis. Tractor. No. 1,340,169; May 18; v. 274; p. 418.
Jessup, Albert H., assignor to American Sterilizer Company, Erie, Pa. Sterilizer. No. 1,331,468; Feb. 17; v. 271; p. 497.
Jessup, George C., Camden, N. J. Power transmission. No. 1,338,832; May 4; v. 274; p. 34.
Jessup, Wardlow M., Camden, N. J. Shoe. No. 1,341,323; May 25; v. 274; p. 708.
Jester, Ernest R., Walton, N. Y. Plastic mold. No. 1,337,074; Apr. 13; v. 273; p. 320.
Jester, Herbert W., Dallas, Tex. Churning device. No. 1,348,496; Aug. 3; v. 277; p. 71.
Jester, Marvin H., Chicago, Ill. Structure for partitions, ceilings, and the like. No. 1,348,009; July 27; v. 276; p. 707.
Jester, Ronald B., New Cumberland, W. Va. Jack. No. 1,348,879; Aug. 10; v. 277; p. 197.
Jewel Tool Specialty Company. (See Holt, Frederick A., assignor.)
Jewell, James E., Kansas City, Mo. Measuring and delivering bin for potatoes, &c. No. 1,351,251; Aug. 31; v. 277; p. 841.
Jewell, Omar H., assignor to Chlorine Products Company, Chicago, Ill. Electrolytic cell. No. 1,357,400; Nov. 2; v. 280; p. 38.
Jewell, William M., assignor to Chlorine Products Company, Chicago, Ill. Pressure-controlling device. No. 1,334,457; Mar. 23; v. 272; p. 589.
Jewell, William M., assignor to Chlorine Products Company, Chicago, Ill. Lubrication. No. 1,350,551; Aug. 24; v. 277; p. 643.
Jewell, William M., assignor to Chlorine Products Company, Chicago, Ill. Electrolytic cell and using same. No. 1,357,401; Nov. 2; v. 280; p. 38.
Jewett, Arthur C., assignor to Winchester Repeating arms Co., New Haven, Conn. Shot-shell. No. 1,363,043; Dec. 21; v. 281; p. 506.
Jewett, Charles E., North Andover, Mass. Bur-conveyer attachment for wool-cards. No. 1,351,653; Aug. 31; v. 277; p. 921.
Jewsbury, Joseph, assignor to James Archdale & Company Limited, Birmingham, England. Radial-arm drilling-machine. No. 1,354,488; Oct. 5; v. 279; p. 8.
Jezik, Joseph J., assignor of one-half to F. F. Kretek, East Bernard, Tex. Rail-joint. No. 1,328,155; Jan. 13; v. 270; p. 300.
Jezler, Hubert, Zurich, Switzerland. Guide-ring for projectiles. No. 1,361,158; Dec. 7; v. 281; p. 35.
Jezova, Mary, Wallis, Tex. Chimney-cowl. No. 1,358,314; Nov. 9; v. 280; p. 276.
Jiffy Automatic Wrench Corporation. (See Schlote, Guido F., assignor.)
Jillard, William W., Philadelphia, Pa. Fastener. No. 1,328,628; Jan. 20; v. 270; p. 426.
Jimerson, Francis A., Athens, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Reversing mechanism for fluid-engines. No. 1,338,732; May 4; v. 274; p. 16.
Jiminez, Anthony, New York, N. Y. Resilient wheel. No. 1,342,289; June 1; v. 275; p. 132.
Jinkner, John F., Buffalo, N. Y. Detachable wire wheel. No. 1,340,773; May 18; v. 274; p. 532.
Jippson, Adolf B., assignor to The Ohio Blower Company, Cleveland, Ohio. Furniture. No. 1,345,366; July 6; v. 276; p. 8.
Jobe, John S., Rochester, and J. Dixond, Monaca, assignors to United States Sanitary Manufacturing Company, Pittsburgh, Pa. Method and apparatus for coating or enameling metal. No. 1,348,361; Aug. 3; v. 277; p. 46.
Jobke, August F., Detroit, Mich. Copying-camera. No. 1,344,896; June 29; v. 275; p. 890.
Jobke, August F., Pittsburgh, Pa. Magnetic ore-separator. No. 1,346,544; July 13; v. 276; p. 302.
Jobling, Richard, Calumet, Mich. Cabinet. No. 1,351,654; Aug. 31; v. 277; p. 921.
Jobski, Otto H., assignor to The Standard Parts Company, Cleveland, Ohio. Rim. No. 1,329,768; Feb. 3; v. 271; p. 79.
Jobski, Otto H., assignor to The Standard Parts Company, Cleveland, Ohio. Vehicle-wheel rim. No. 1,347,581; July 27; v. 276; p. 623.
Jochumsen, Harry A., Wheeling, W. Va. Boiler-closure for hand-holes. No. 1,349,510; Aug. 10; v. 277; p. 321.
Jochumsen, John, and G. A. Netcott, assignors to L. C. Simmons, A. C. Burkhart, C. V. Rosenberger, J. T. Barnett, and A. H. Trask, Independence, Iowa. Swing. No. 1,345,333; June 29; v. 275; p. 974.
Joeck, Thomas D., assignor to Winchester Repeating Arms Co., New Haven, Conn. Telescope-sight mount. No. 1,361,063; Dec. 7; v. 281; p. 17.
Joeck, Thomas D., assignor to Winchester Repeating Arms Co., New Haven, Conn. Telescope-mounting for fire-arms. No. 1,362,320; Dec. 14; v. 281; p. 314.
Joedicke, Louis U., Webster Groves, Mo. Means for forming lines of stitches. No. 1,333,545; Mar. 9; v. 272; p. 311.
Joel, Alfred, Zurich, Switzerland. Spring-support for saddles. No. 1,358,315; Nov. 9; v. 280; p. 276.
Joel, Henry F., Sr. (See Mawdsley, J. H. S., and Joel.)
Joerns, Cora A. (See Joerns, Frederick, assignor.)
Joerns, Frederick, St. Paul, Minn. Pump. No. 1,358,213; Nov. 9; v. 280; p. 256.
Joerns, Frederick, assignor to C. A. Joerns, St. Paul, Minn. Hydraulic hoist. No. 1,353,244; Sept. 21; v. 278; p. 394.
Joffe, Isaac. (See Shapiro, H., and Joffe.)
Joffe, Philip, New York, N. Y. Music-sheet. No. 1,331,993; Feb. 24; v. 271; p. 617.
Johannesen, Svend E., Pittsfield, Mass., assignor to General Electric Company. Transformer. No. 1,331,068; Feb. 17; v. 271; p. 424.
Johannesen, Svend E., Pittsfield, Mass., assignor to General Electric Company. High-voltage transformer. No. 1,337,915; Apr. 20; v. 273; p. 554.
Johannesen, Svend E., Pittsfield, Mass., assignor to General Electric Company. High-voltage transformer. (Reissue.) No. 14,891; June 22; v. 275; p. 771.
Johannesen, Svend E., assignor to General Electric Company, Pittsfield, Mass. Stationary induction apparatus. No. 1,360,752; Nov. 30; v. 280; p. 914.
Johannessen, J. E., J. A. Sether, O. C. Hoff, and C. J. Christiansen, Brooklyn, N. Y. Non-sinkable vessel with conning-tower. No. 1,358,555; Nov. 9; v. 280; p. 325.
Johansen, Harry, assignor to Sullivan Machinery Company, Chicago, Ill. Clamping mechanism. No. 1,355,082; Oct. 5; v. 279; p. 126.
Johansen, Oscar, Christiania, Norway. Waste-making machine. No. 1,363,420; Dec. 28; v. 281; p. 618.
Johanson, Andrew A., Cordova, Alaska. Can-opener. No. 1,331,437; Feb. 17; v. 271; p. 491.
Johanson, Axel V., Stockholm, Sweden. Autogenous-welding apparatus. No. 1,357,324; Nov. 2; v. 280; p. 24.
Johanson, Charles, Dover, N. J. Pattern-controlled mechanism. No. 1,353,756; Sept. 21; v. 278; p. 496.
Johanson, Emil G., assignor to J. McLaughlin, Chicago, Ill. Power-transmission mechanism. No. 1,360,533; Nov. 30; v. 280; p. 871.
Johanson, Georg K. V., Stockholm, Sweden. Apparatus for causing pulsation of air. No. 1,363,878; Dec. 28; v. 281; p. 708.
Johanson, George K. V., Stockholm, Sweden. Coin-controlled vending apparatus. No. 1,354,653; Oct. 5; v. 279; p. 41.
Johanson, Gustaf E., Sundsvall, Sweden. Sorting device for sawn wood. No. 1,349,836; Aug. 17; v. 277; p. 457.
Johanson, Johan A., Chicago, Ill. Broom. No. 1,335,116; Mar. 30; v. 272; p. 774.
Johanson, Magnus H., assignor to Todd Protectograph Company, Inc., Rochester, N. Y. Checkwriter. No. 1,329,606; Feb. 3; v. 271; p. 49.

Digitized by Google

Alphabetical list of patentees—Continued.

Johanson, Magnus H., assignor to Todd Protectograph Co., Rochester, N. Y. Check-writer. No. 1,350,459; Aug. 24; v. 277; p. 625.
Johanson, Magnus H., Rochester, N. Y. Safety-razor and safety-razor blade. No. 1,356,627; Oct. 26; v. 279; p. 567.
Johanson, Magnus H., Rochester, N. Y. Forming blades. No. 1,356,721; Oct. 26; v. 279; p. 586.
Johanson, Thure A., St. Charles, Ill., assignor to The Cable Company, Chicago, Ill. Music-desk for pianos. No. 1,359 706; Nov. 23; v. 280; p. 640.
Johanson, Thure A., St. Charles, Ill., assignor to The Cable Company, Chicago, Ill. Piano sounding-board and frame. No. 1,359,707; Nov. 23; v. 280; p. 640.
Johansson, Carl E., assignor to Aktiebolaget C. E. Johansson, Eskilstuna, Sweden. Accurate measuring-gage. No. 1,363,654; Dec. 28; v. 281; p. 664.
Johansson, Carl E., and F. G. H. Sjökvist, Eskilstuna, assignors to Aktiebolaget C. E. Johansson, Eskilstuna, Sweden. Indicating device for measuring apparatus and measuring-tools. No. 1,334,955; Mar. 30; v. 272; p. 743.
Johansson, Johan P., Fannalund, Sweden. Adjustable support for electric lamps. No. 1,348,949; Aug. 10; v. 277; p. 210.
Johantgen, Oliver D., assignor, by mesne assignments, to The Victor Adding Machine Company, Chicago, Ill. Listing-machine. No. 1,336,840; Apr. 13; v. 273; p. 275.
John, Ernest. (See Brown, H. C., and John.)
John Ford Starter Company, The. (See Davis, Thomas, assignor.)
John, Hanns, Prague, Czechoslovakia. Manufacture of aldehyde condensation product capable of technical utilization. No. 1,355,834; Oct. 19; v. 279; p. 365.
John, Lillian, New York, N. Y. Hose-supporter. No. 1,338,733; May 4; v. 274; p. 16.
Johns, Carl O., New Haven, Conn., and A. J. Finks, Portland, Me. Type of bread. No. 1,356,988; Oct. 26; v. 279; p. 638.
Johns, Frederick C. (See Van Dohlan, Richard, assignor.)
Johns, George M., assignor to W. N. Matthews and Brother, Inc., St. Louis, Mo. Atomizer. No. 1,330,448; Feb. 10; v. 271; p. 237.
Johns, George M., assignor to W. N. Matthews and Brother, Inc., St. Louis, Mo. Atomizer. No. 1,355,339; Oct. 12; v. 279; p. 229.
Johns, George M., assignor to W. N. Matthews and Brother, Inc., St. Louis, Mo. Atomizer. No. 1,361,526; Dec. 7; v. 281; p. 111.
Johns, George M., assignor to W. N. Matthews and Brother, Inc., St. Louis, Mo. Atomizer. No. 1,361,527; Dec. 7; v. 281; p. 111.
Johns, Luther. (See Poor, Edwin L., assignor.)
Johns-Manville, H. W., Company. (See Boylan, James O., assignor.)
Johns-Manville, H. W., Company. (See Carson, Clarence, assignor.)
Johns-Manville, H. W., Company. (See Christenson, George, assignor.)
Johns-Mannville, H. W., Company. (See Jacobs, Philip C., assignor.)
Johns-Manville, H. W., Company. (See Walsh, Joseph H., assignor.)
Johns-Pratt Company, The. (See Cole, Robert C., assignor.)
Johns, Thomas W., Brooklyn, N. Y. Casting mechanism for typographical machines. No. 1,340,613; May 18; v. 274; p. 502.
Johnson, Aben E. (See Taffee, Leo H., assignor.)
Johnson, Aben E., assignor to Hastings Manufacturing Co., Hastings, Mich. Tire-carrier. No. 1,327,097; Jan. 6; v. 270; p. 41.
Johnson, Aben E., Hastings, Mich. Package for disassembled vehicle-curtain windows. No. 1,344,135; June 22; v. 275; p. 676.
Johnson, Adler G., Fort Scott, Kans. Magazine-binder. No. 1,362,005; Dec. 14; v. 281; p. 252.
Johnson, Adolph, Battle Creek, Mich. Cereal cooker and sterilizer. No. 1,336,079; Apr. 6; v. 273; p. 71.
Johnson, Adolph F., Hancock, Mich. Easel. No. 1,341,560; May 25; v 274; p. 765.
Johnson, Albert E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on soles. No. 1,344,041; June 22; v. 275; p. 658.
Johnson, Albert E., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sole-fitting machine. No. 1,349,723; Aug. 17; v. 277; p. 436.
Johnson, Albert E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Turn-shoe making. No. 1,362,627; Dec. 21; v. 281; p. 425.
Johnson, Albert H., assignor to National Electrical Supply Company, Washington, D. C. Electrical-resistance wire. No. 1,344,406; June 22; v. 275; p. 729.
Johnson, Albert H., assignor to National Electrical Supply Company, Washington, D. C. Machine for crimping wire. No. 1,345,445; July 6; v. 276; p. 23.
Johnson, Albert O., Northwood, Iowa. Adjustable showcase. No. 1,345,367; July 6; v. 276; p. 8.
Johnson, Albert S., Irwin, Mo., assignor of four-fifths to J. Peterson, J. M. Conner, W. S. Grant, F. L. Fluke, H. A. Gorsuch, J. T. Alsup, W. M. Herd, and F. R. Burritt, Delta county, Colo. Hen's nest. No. 1,347,223; July 20; v. 276; p. 494.
Johnson, Alfred, Chicago, Ill. Device for removing bushings and the like. No. 1,341,132; May 25; v. 274; p. 672.
Johnson, Alfred, Chicago, Ill. Skate-protector. No. 1,341,853; June 1; v. 275; p. 47.
Johnson, Alfred B., Blooming Grove, and V. Green, Edgerton, Wis. Hog-holder. No. 1,343,213; June 15; v. 275; p. 431.
Johnson, Alfred C., San Jose, Calif. Track-chain. No. 1,333,175; Mar. 9; v. 272; p. 241.
Johnson, Alfred C., San Jose, Calif. Driving and reversing mechanism. No. 1,333,176; Mar. 9; v. 272; p. 242.
Johnson, Alfred C., San Jose, Calif. Lifting device for draft implements. No. 1,356,770; Oct. 26; v. 279; p. 595.
Johnson, Alfred E. (See Frost, Robert T., assignor.)
Johnson, Allen D. W., Anoka, Minn. Silo. No. 1,360,408; Nov. 30; v. 280; p. 846.
Johnson, Alvin L., *et al.* (See Alsten, Alfred O., assignor.)
Johnson, Alvin L., and A. O. Alsten, assignors of one-fourth to H. C. Goulding and one-fourth to J. A. Alsten, Worcester, Mass. Pneumatic core for use in repairing tires. No. 1,337,707; Apr. 20; v. 273; p. 514.
Johnson, Alvin R., *et al.* (See Holland, Walter J., assignor.)
Johnson, Ambrose L. (See Hembree, S. S., and Johnson.)
Johnson, Andrew J., Long Prairie, Minn. Silo-heater. No. 1,340,718; May 18; v. 274; p. 521.
Johnson, Andrew J., assignor to The Johnson Perfection Burner Company, Cleveland, Ohio. Burner. No. 1,360,753; Nov. 30; v. 280; p. 915.
Johnson, Archie O. (See Moffett, Thomas S., assignor.)
Johnson, Arthur A. (See Herrmann, D. L., and Johnson.)
Johnson, Arthur A. (See Stickney, B. C., and Johnson.)
Johnson, Arthur A., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,332,218; Mar. 2; v. 272; p. 8.
Johnson, Arthur A., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,332,342; Mar. 2; v. 272; p. 32.
Johnson, Arthur E., assignor of one-half to W. B. Pierce, Chicago, Ill. Tool-holder. No. 1,327,561; Jan. 6; v. 270; p. 127.
Johnson, Arthur W., La Crosse, Wis. Tag holder and connector. No. 1,348,281; Aug. 3; v. 277; p. 80.
Johnson Automatic Sealer Co. (See Bevier, Henry R., assignor.)
Johnson Automobile Lock Co. (See Johnson, Colvin L., assignor.)
Johnson Automobile Lock Company. (See Vodoz, Frederick W., assignor.)
Johnson Automobile Sheet Metal Works. (See Hollarn, E. F., Hubble, Everton, and Wilcox, assignors.)
Johnson Automobile Sheet Metal Works. (See Scott, E. Harrison, assignor.)
Johnson, Axel, Oakland, assignor to American Can Company, San Francisco, Calif. Clenching ends to can-bodies. No. 1,333,316; Mar. 9; v. 272; p. 268.
Johnson, Axel, Oakland, assignor to American Can Company, San Francisco, Calif. Closure for sanitary cans. No. 1,348,567; Aug. 3; v. 277; p. 85.
Johnson, Axel, Oakland, assignor to American Can Company, San Francisco, Calif. Double seamer. No. 1,349,837; Aug. 17; v. 277; p. 457.
Johnson, Axel A., Hoquiam, Wash. Trolley-pole. No. 1,356,369; Oct. 19; v. 279; p. 471.
Johnson, B. H. (See Duke, Luther L., assignor.)
Johnson, Benjamin E. (See Wilkins, Frederick F., assignor.)
Johnson, Benjamin H., and B. M. Phelps, said Johnson assignor to W. S. Phelps, Roanoke, Va. Bed-frame connection. No. 1,351,758; Sept. 7; v. 278; p. 8.
Johnson, Bennett L. (See Allen, Rodney D., assignor.)
Johnson, Caleb H., Bridgeton, N. J. Motor-vehicle lock. No. 1,360,534; Nov. 30; v. 280; p. 871.
Johnson, Carl, Chicago, Ill. Acetylene-torch. No. 1,328,329; Jan. 20; v. 270; p. 370.
Johnson, Carl A., New Bedford, Mass. Lamp-bracket. No. 1,351,171; Aug. 31; v. 277; p. 824.
Johnson, Carl B., assignor to Lamb & Nash Company, Winchester, Mass. Machine for cutting sheet material. No. 1,355,796; Oct. 12; v. 279; p. 316.
Johnson, Carl E., Jarretts, Minn. Stable-cleaner. No. 1,334,458; Mar. 23; v. 272; p. 589.
Johnson, Carl E., St. Paul, Minn. Combined engine and vehicle frame. No. 1,353,245; Sept. 21; v. 278; p. 394.
Johnson, Carl E., St. Paul, Minn. Transmission mechanism. No. 1,363,044; Dec. 21; v. 281; p. 506.
Johnson, Carl G., Eau Claire, Wis. Camera. No. 1,352,134; Sept. 7; v. 278; p. 81.
Johnson, Carl R., Bartlesville, Okla. Motor-cleaning device. No. 1,363,119; Dec. 21; v. 281; p. 521.

Digitized by Google

Johnson, Carter J., Green Bay, Wis. Turnbuckle-wrench. No. 1,344,800; June 29; v. 275; p. 872.
Johnson, Charles, assignor of one-half to W. Crawford, Bedford, Ind. Fan-belt retaining and tightening device. No. 1,339,893; May 11; v. 274; p. 308.
Johnson, Charles, assignor to Johnson Rim and Parts Company, Inc., Buffalo, N. Y. Wheel-rim. No. 1,363,182; Dec. 21; v. 281; p. 533.
Johnson, Charles A., Unionville, Conn. Threading attachment. No. 1,354,305; Sept. 28; v. 278; p. 650.
Johnson, Charles E., Highland Park, Mich. Tire-alarm. No. 1,332,729; Mar. 2; v. 272; p. 106.
Johnson, Charles E., Chicago, Ill. Needle-cutter. No. 1,357,637; Nov. 2; v. 280; p. 82.
Johnson, Charles E. (See Stone, E. B., and Johnson.)
Johnson, Charles E., assignor of one-third to W. A. Johnson and one-third to S. Bitterman, Denver, Colo. Carbureter. No. 1,363,421; Dec. 28; v. 281; p. 619.
Johnson, Charles F., Hartford, Conn. Air-compressor. No. 1,354,402; Sept. 28; v. 278; p. 670.
Johnson, Charles G., Houston, Tex. Window-shade. No. 1,330,268; Feb. 10; p. 271; p. 204.
Johnson, Charles G., and J. M. Allen; said Allen assignor to H. D. Wentz, St. Louis, Mo. Moisture-inlet valve for internal-combustion engines. No. 1,356,370; Oct. 19; v. 279; p. 671.
Johnson, Charles H., Colony, Kans. Flytrap. No. 1,338,084; Apr. 27; v. 273; p. 655.
Johnson, Charles K., Danube, Minn. Riding attachment for harrows. No. 1,343,827; June 15; v. 275; p. 551.
Johnson, Charles L., Springfield, Ohio. Cap-removing tool. No. 1,342,848; June 8; v. 275; p. 295.
Johnson, Charles L., Ripley, Tenn. Clinical thermometer. No. 1,358,372; Nov. 9; v. 280; p. 288.
Johnson, Charles M., Avalon, Pa. Furnace construction. No. 1,329,907; Feb. 3; v. 271; p. 105.
Johnson, Charles M., Avalon, Pa. Steel alloy. No. 1,342,911; June 8; v. 275; p. 308.
Johnson, Charles M., Avalon, Pa. Bunsen burner. No. 1,342,912; June 8; v. 275; p. 308.
Johnson, Charles M., Avalon, Pa. Vault-plate. No. 1,342,913; June 8; v. 275; p. 308.
Johnson, Charles O., Worcester, Mass. Apparatus for drawing and straightening wire. No. 1,338,453; Apr. 27; v. 273; p. 724.
Johnson, Charles O., Worcester, Mass. Apparatus for hardening and tempering wire. No. 1,362,321; Dec. 14; v. 281; p. 314.
Johnson, Charley H., Anoka, Minn. Cement-block tamper. No. 1,344,230; June 22; v. 275; p. 694.
Johnson, Clarence O. (See Christensen, Rasmus P., assignor.)
Johnson, Clarence W., Bellevue, and T. G. Lamb, Baldwin township, Alleghony county, Pa. Temperature-controlling device for fuel. No. 1,333,546; Mar. 9; v. 272; p. 311.
Johnson, Claude, *et al.* (See Buckner, Gilbert J., assignor.)
Johnson, Colvin L., assignor to Johnson Automobile Lock Co., Chicago, Ill. Gear-shift lever. No. 1,346,209; July 13; v. 276; p. 235.
Johnson, Colvin L., assignor to Johnson Automobile Lock Co., Chicago, Ill. Automobile-spare-tire lock. No. 1,346,964; July 20; v. 276; p. 444.
Johnson, Colvin L., assignor to Johnson Automobile Lock Co., Chicago, Ill. Gear-shift-lever lock. No. 1,350,810; Aug. 24; v. 277; p. 693.
Johnson, David A., Hammond, Ind. Awning-support. No. 1,358,958; Nov. 16; v. 280; p. 450.
Johnson, David F., Fort Washington, Md. Fountain-pen-locking clip. No. 1,344,897; June 29; v. 275; p. 890.
Johnson, Dolph, Burke, Idaho, assignor of one-half to J. Carlson, Mullan, Idaho. Shears. No. 1,350,653; Aug. 24; v. 277; p. 662.
Johnson, Dorr E., Toledo, Ohio, and O. E. Parmelee, Lambertville, Mich. Spring-board for diving. No. 1,347,510; July 27; v. 276; p. 608.
Johnson, Eddie E., Jr. (See Stephens, F. P., and Johnson.)
Johnson, Edmiston P., Decatur, Ill. Direction-indicator for bicycles. No. 1,347,334; July 20; v. 276; p. 517.
Johnson, Edward E., St. Paul, Minn. Machine for grooving and filling rods. No. 1,358,745; Nov. 16; v. 280; p. 408.
Johnson, Edward I., Clement, N. D. Automobile-heater. No. 1,357,093. Oct. 26; v. 279; p. 659.
Johnson, Edward M., Blytheville, Ark. Spark-plug. No. 1,341,058; May 25; v. 274; p. 658.
Johnson, Edward P., Chicago, Ill. Mechanical movement. No. 1,349,724; Aug. 17; v. 277; p. 436.
Johnson, Eldridge R., Merion, Pa., assignor to Victor Talking Machine Company. Sound-box for sound recording and reproducing machines. No. 1,353,479; Sept. 21; v. 278; p. 439.
Johnson, Elmer, Dodgeville, Wis. Fastening device for chains. No. 1,354,194; Sept. 28; v. 278; p. 628.
Johnson, Elmer B., Blair, Wis. Shaft-coupling for vehicles. No. 1,332,343; Mar. 2; v. 272; p. 32.
Johnson, Emil A., Ruby, Wash. Material for poultry-nests. No. 1,359,602; Nov. 23; v. 280; p. 620.
Johnson, Emil F., Lamberton, Minn. Shortening attachment for reins. No. 1,352,812; Sept. 14; v. 278; p. 250.
Johnson, Ernest F., assignor to Art Metal Construction Company, Jamestown, N. Y. Sheet-metal frame. No. 1,361,586; Dec. 7; v. 281; p. 123.
Johnson, Ernest S. (See Rood, W. B., and Johnson.)
Johnson, Ernest S., Webster City, Iowa. Animal-feeding device. No. 1,339,763; May 11; v. 274; p. 284.
Johnson, Eugene A., Walla Walla, Wash. Electrical test set. No. 1,348,424; Aug. 3; v. 277; p. 58.
Johnson, Eugene M., Portland, Oreg. Fish-trap. No. 1,336,356; Apr. 6; v. 273; p. 123.
Johnson, Evans S., Eldorado, Okla. Spring-tire. No. 1,340,272; May 18; v. 274; p. 437.
Johnson Fare Box Company. See Bell, Dillwyn M., assignor.)
Johnson Fare Box Company. (See Johnson, Jay M., assignor.)
Johnson Fare Box Company. (See Woodward, Arthur H., assignor.)
Johnson, Felix G., Clarinda, Iowa, assignor of one-half to M. E. Johnson. Stock-watering tank. No. 1,337,075; Apr. 13; v. 273; p. 321.
Johnson, Fidelis, Delphos, Ohio. Combined furnace and flue-welder. No. 1,346,753; July 13; v. 276; p. 343.
Johnson, Frank, Wilmette, Ill., assignor to National Pneumatic Company, New York, N. Y. Push-button control system for elevator-door-operating devices. No. 1,329,712; Feb. 3; v. 271; p. 68.
Johnson, Frank L., Akron, Ohio. Collapsible tire-core. No. 1,352,274; Sept. 7; v. 278; p. 107.
Johnson, Frank L., Akron, Ohio. Collapsible tire-core. No. 1,356,821; Oct. 26; v. 279; p. 586.
Johnson, Frank M., Denver, Colo. Micrometer and gage attachment. No. 1,328,378; Jan. 20; v. 270; p. 879.
Johnson, Frank M., Mitcham, assignor of one-half to Cafferata & Co., Newark-on-Trent, England. Machine for the manufacture of building-slabs, &c. No. 1,361,064; Dec. 7; v. 281; p. 17.
Johnson, Frank P., assignor to H. Voeleker, Danville, Pa. Garment-hanger. No. 1,342,265; June 1; v. 275; p. 128.
Johnson, Fred V., Berkeley, Calif. Transmission. No. 1,338,777; May 4; v. 274; p. 24.
Johnson, Fred V., Berkeley, Calif. Bearing. No. 1,342,541; June 8; v. 275; p. 234.
Johnson, Frederick J., Jersey City, N. J. Means for lifting, lowering, and securing a window-sash. No. 1,343,322; June 15; v. 275; p. 451.
Johnson-Fries Marine Construction Co. (See Johnson, Peter A., assignor.)
Johnson, Fritz, Fountain, Colo. Radiator. No. 1,340,774; May 18; v. 274; p. 532.
Johnson, George H., Hattiesburg, Miss. Means for preventing clogging of sand-pipes. No. 1,341,236; May 25; v. 274; p. 692.
Johnson, George M., McDonald, Pa. Mine-shaft-safety device. No. 1,333,921; Mar. 16; v. 272; p. 442.
Johnson, George M., McDonald, Pa. Car-check. No. 1,338,225; Apr. 27; v. 273; p. 682.
Johnson, George W., Latrobe, Pa. Electric printing-machine. No. 1,351,655; Aug. 31; v. 277; p. 921.
Johnson, Gunnard E. (See Krejči, M. W., and Johnson.)
Johnson, Gust A. F., Newman Grove, Nebr. Grain-car door. No. 1,358,373; Nov. 9; v. 280; p. 288.
Johnson, Gustaf, and E. Nelson, Seattle, Wash. Nut-lock. No. 1,349,768; Aug. 17; v. 277; p. 445.
Johnson, Gustaf A., assignor of one-half to R. M. Olmsted, Manteca, Calif. Reinforced-concrete building-block. No. 1,338,509; Apr. 27; v. 273; p. 735.
Johnson, Gustaf F., Chicago, Ill. Seed-planter. No. 1,344,764; June 29; v. 275; p. 865.
Johnson, Gustaf O., Elkhart, Ind. Infant's carriage. No. 1,346,963; July 20; v. 276; p. 444.
Johnson, Gustave P., Waukegan, Ill. Pump. No. 1,339,563; May 11; v. 274; p. 246.
Johnson, Gustave T., Chicago, Ill., assignor to P. B. Yates Machine Company, Beloit, Wis. Turning-machine. No. 1,334,305; Mar. 23; v. 272; p. 560.
Johnson, Halsey M. (See Stein, Clarence L., assignor.)
Johnson, Hans C., and E. H. Percy, Fort Bragg, Calif. Protecting device for steam-turbine blades. No. 1,333,661; Mar. 16; v. 272; p. 394.
Johnson, Hans P., Racine, Wis. Auto tire-carrier. No. 1,331,926; Feb. 24; v. 271; p. 604.
Johnson, Harrie H., Brooklyn, N. Y. Mortising-machine. No. 1,356,528; Oct. 26; v. 279; p. 548.
Johnson, Harry C. (See Shaw, Levi M., assignor.)
Johnson, Harry L., *et al.* (See Buckner, Gilbert J., assignor.)
Johnson, Harry L., assignor to Percy E. Ginn, Boston, Mass. Package-sealing machine. No. 1,352,899; Sept. 14; v. 278; p. 267.
Johnson, Harry L., Boston, Mass., and M. Raymer, Battle Creek, Mich., assignors to P. E. Ginn, Boston, Mass. Machine for sealing cartons. No. 1,352,197; Sept. 7; v. 278; p. 93.
Johnson, Hayward L., Moline, Kans. Combination clutch and brake control. No. 1,359,385; Nov. 16; v. 280; p. 531.

Digitized by Google

Alphabetical list of patentees—Continued.

Johnson, Henry, Minneapolis, Minn. Shoe-shining cabinet. No. 1,329,410; Feb. 3; v. 271; p. 12.
Johnson, Henry E. (See Spiers, Edgar H., assignor.)
Johnson, Henry E., Donnybrook, N. D. Electric-light-cord reel. No. 1,361,465; Dec. 7; v. 281; p. 98.
Johnson, Henry H., Avoca, Iowa. Combined end-gate and shoveling-board. No. 1,351,656; Aug. 31; v. 277; p. 921.
Johnson, Herbert W., *et al.* (See Slee, John, assignor.)
Johnson, Herluf G., Portland, Oreg. Key-ring. No. 1,338,085; Apr. 27; v. 273; p. 656.
Johnson, Herman, and A. D. C. Walker, Marion, Ind. Flag, pennant, or banner floating bracket. No. 1,339,849; May 11; v. 274; p. 300.
Johnson, Homer B., Sheridan, Ind. Rein-operative control means for motor-cars. (Reissue.) No. 14,986; Nov. 16; v. 280; p. 551.
Johnson, Horace E., Bustleton, Pa. Adjustable window-screen and flytrap. No. 1,334,099; Mar. 16; v. 272; p. 476.
Johnson, Howard A., Norfolk, Va. Shaft-coupling. No. 1,345,446; July 6; v. 276; p. 23.
Johnson, Howard A., Norfolk, Va. Rolling door. No. 1,345,447; July 6; v. 276; p. 23.
Johnson, Howard A., Norfolk, Va. Multiple sliding door for use in airplane-hangars or other large openings. No. 1,352,606; Sept. 14; v. 278; p. 208.
Johnson, J. W., and A. J. Carpenter, Pine Bluff, Ark. Faucet. No. 1,351,657; Aug. 31; v. 277; p. 922.
Johnson, Jacob T., Atlanta, Ga. Shade-holder. No. 1,332,127; Feb. 24; v. 271; p. 641.
Johnson, Jacob T., Atlanta, Ga. Combination-faucet. No. 1,336,236; Apr. 6; v. 273; p. 101.
Johnson, Jay M., assignor, by mesne assignments, to Johnson Fare Box Company, Chicago, Ill. Coin and ticket fare box and register. No. 1,344,898; June 29; v. 275; p. 890.
Johnson, Jay M., Chicago, Ill. Weight-motor. No. 1,359,994; Nov. 23; v. 280; p. 697.
Johnson, Jeannette N., Omaha, Nebr. Combined pasteboard bassinet and doll. No. 1,332,400; Mar. 2; v. 272; p. 44.
Johnson, John, New York, N. Y. Wheel-attached sled-runner. No. 1,328,629; Jan. 20; v. 270; p. 426.
Johnson, John, New York, N. Y. Door. No. 1,335,838; Apr. 6; v. 273; p. 25.
Johnson, John, Brooklyn, N. Y. Mixer. No. 1,353,165; Sept. 21; v. 278; p. 378.
Johnson, John, Brooklyn, N. Y. Rapid dissolver. No. 1,353,166; Sept. 21; v. 278; p. 378.
Johnson, John, Brooklyn, N. Y. Mixer. No. 1,354,489; Oct. 5; v. 279; p. 8.
Johnson, John A., *et al.* (See Jonsson, Jonas, assignor.)
Johnson, John A., Baltimore, Md. Truck. No. 1,339,514; May 11; v. 274; p. 237.
Johnson, John A., Meriden, assignor to The Bassick Company, Bridgeport, Conn. Sliding shoe for furniture. No. 1,334,496; Mar. 23; v. 272; p. 596.
Johnson, John A., Meriden, assignor to The Bassick Company, Bridgeport, Conn. Sliding shoe for furniture. No. 1,341,133; May 25; v. 274; p. 672.
Johnson, John B., San Francisco, Calif. Window-wiping device. No. 1,362,801; Dec. 21; v. 281; p. 460.
Johnson, John E., and C. H. Oslund, assignors to The O. & J. Machine Company, Worcester, Mass. Label-wiping mechanism. No. 1,339,764; May 11; v. 274; p. 284.
Johnson, John H., Santa Barbara, Calif. Baker's material-cabinet. No. 1,329,607; Feb. 3; v. 271; p. 49.
Johnson, John H., Lemoore, Calif. Fork-scraper. No. 1,341,750; June 1; v. 275; p. 27.
Johnson, John L., Chicago, Ill. Molding apparatus. No. 1,328,433; Jan. 20; v. 270; p. 389.
Johnson, John L., Humble, Tex. Pump. No. 1,340,545; May 18; v. 274; p. 489.
Johnson, John M., Galva, Kans. Double-piston gas-engine. No. 1,329,974; Feb. 3; v. 271; p. 117.
Johnson, John M., Winters, Calif. Tractor. No. 1,354,108; Sept. 28; v. 278; p. 611.
Johnson, John M., assignor to The United States Automatic Fire Alarm Company, Kansas City, Mo. Thermostatic circuit-closure. No. 1,357,325; Nov. 2; v. 280; p. 24.
Johnson, John N., Albuquerque, N. Mex. Convertible hair clipper. No. 1,351,041; Aug. 31; v. 277; p. 800.
Johnson, John N., Albuquerque, N. Mex. Manually-operated hair-clippers. No. 1,354,306; Sept. 28; v. 278; p. 650.
Johnson, John N., and O. C. Hanson, Fertile, Minn. Splitting-machine. No. 1,358,556; Nov. 9; v. 280; p. 325.
Johnson, John S., Canandaigua, N. Y. Clasp. No. 1,363,655; Dec. 28; v. 281; p. 665.
Johnson, Joseph E., Jr., deceased, M. H. Johnson, executrix, New York, N. Y. Production of ferromanganese. No. 1,354,490; Oct. 5; v. 279; p. 9.
Johnson, Joseph E., Jr., deceased, M. H. Johnson, executrix, New York, N. Y. Production of ferrochromium. No. 1,354,491; Oct. 5; v. 279; p. 9.
Johnson, Joseph F., assignor of one-half to D. W. Stepisich, Long Beach, Miss. Sanitary measure and funnel combined. No. 1,327,889; Jan. 6; v. 270; p. 95.
Johnson, Joseph L., Kelley, Iowa. Shingle-baler. No. 1,334,904; Mar. 23; v. 272; p. 675.
Johnson, Joseph M., Harrisburg, Pa. Tire. No. 1,361,065; Dec. 7; v. 281; p. 17.
Johnson, Joseph R., Louisville, Ky. Mechanical movement. No. 1,328,379; Jan. 20; v. 270; p. 379.
Johnson, Josiah F., Edgewood, Pa., assignor to Westinghouse Electric & Mfg. Company. Blade. No. 1,335,002; Mar. 30; v. 272; p. 753.
Johnson, Karl A., Pullman, Ill. Amusement device. No. 1,354,909; Oct. 5; v. 279; p. 92.
Johnson, Knute J., Minneapolis, Minn. Cut-out valve. No. 1,331,960; Feb. 24; v. 271; p. 610.
Johnson, Laura L., Pocopson, Pa. Rug. No. 1,331,927; Feb. 24; v. 271; p. 604.
Johnson, Lawrence E., Melrose, E. Erickson, Lynn, and O. T. Peterson, Malden, Mass. Presser-foot mechanism for sewing-machines. No. 1,357,237; Nov. 2; v. 280; p. 7.
Johnson, Lawrence E., assignor to M. S. Johnson, Melrose, Mass. Lifting-jack. No. 1,336,906; Apr. 13; v. 273; p. 288.
Johnson, Lawrence E., assignor, by mesne assignments, to Mattie S. Johnson, Melrose, Mass. Method of and apparatus for heat-treating metals. No. 1,351,909; Sept. 7; v. 278; p. 39.
Johnson, Leonard L., Keysville, Va. Subsoil attachment for plows. No. 1,360,409; Nov. 30; v. 280; p. 847.
Johnson, Lew P., Salt Lake City, Utah. Pass-book and the like. No. 1,363,120; Dec. 21; v. 281; p. 521.
Johnson, Lewis H., assignor, by mesne assignments, to Western Electric Company, Bloomfield, N. J. Telephone system. No. 1,353,910; Sept. 28; v. 278; p. 570.
Johnson, Lewis O., Ralston, Nebr. Table-drawer. No. 1,345,194; June 29; v. 275; p. 946.
Johnson, Louis D., and E. J. Biedenkopf, Blue Island, Ill. Skid-chain fastener for motor-vehicles. No. 1,342,631; June 8; v. 275; p. 251.
Johnson, Louis J., South Bend, Ind. Traction-wheel. No. 1,341,466; May 25; v. 274; p. 737.
Johnson, Ludwig, Helena, Mont. Tractor. No. 1,348,720; Aug. 3; v. 277; p. 114.
Johnson, M. Duval, Lake Village, Ark. Desk-pad. No. 1,362,487; Dec. 14; v. 281; p. 346.
Johnson, Marcus, Brooklyn, N. Y. Pleasure-railway. No. 1,351,658; Aug. 31; v. 277; p. 922.
Johnson, Margaret H., executrix. (See Johnson, Joseph E., Jr.)
Johnson, Martha E. (See Johnson, Felix G., assignor.)
Johnson, Mattie S. (See Johnson, Lawrence E., assignor.)
Johnson, Maurice, Newark, N. J. Paper-file. No. 1,342,504; June 8; v. 275; p. 227.
Johnson, Maxwell O., Waipio, Hawaii. Treating fruit-juice. No. 1,362,868; Dec. 21; v. 281; p. 472.
Johnson, Maxwell O., Waipio, Hawaii. Making jelly. No. 1,362,869; Dec. 21; v. 281; p. 473.
Johnson, Maxwell O., Waipio, Hawaii. Making fruit syrup. No. 1,362,870; Dec. 21; v. 281; p. 473.
Johnson, Melvin A., Tenstrike, Minn. Pitman-protector for harvesting-machines. No. 1,335,897; Apr. 6; v. 273; p. 36.
Johnson, Morrison R., and O. N. Halverson, Lewistown, Mont. Carpet-cleaning apparatus. No. 1,343,137; June 8; v. 275; p. 352.
Johnson, Olaf. (See Heer and Johnson.)
Johnson, Ole, Hayti, S. D. Toy gun. No. 1,354,566; Oct. 5; v. 279; p. 24.
Johnson, Oliver W., Cleveland, Ohio. Operating mechanism for gang-plows. No. 1,333,207; Mar. 9; v. 272; p. 247.
Johnson, Oscar W., and R. Milne, assignors to Ward Pump Company, Rockford, Ill. Sprayer. No. 1,345,598; July 6; v. 276; p. 83.
Johnson, Otto, Freeland, Mich. Wagon-bed. No. 1,332,848; Mar. 2; v. 272; p. 128.
Johnson, Owen, New York, N. Y. Amusement device. No. 1,359,508; Nov. 23; v. 280; p. 601.
Johnson Perfection Burner Company, The. (See Johnson, Andrew J., assignor.)
Johnson, Peter, Los Angeles, Calif. Abdominal support. No. 1,342,914; June 8; v. 275; p. 308.
Johnson, Peter, Minneapolis, Minn. Scissors attachment. No. 1,363,600; Dec. 28; v. 281; p. 655.
Johnson, Peter, assignor to Stoughton Wagon Co., Stoughton, Wis. Radiator-mounting for motor-driven vehicles. No. 1,361,066; Dec. 7; v. 281; p. 17.
Johnson, Peter A., assignor to Johnson-Fries Marine Construction Co., Portland, Oreg. Ship-steering apparatus. No. 1,339,850; May 11; v. 274; p. 300.
Johnson, Peter B., Seattle, Wash. Apparatus for delivering heavy lubricating oil or grease. No. 1,33,547; Mar. 9; v. 272; p. 311.
Johnson, Peter F., and A. L. Firpo, Rutherford, Calif. Dry concentrator. No. 1,333,922; Mar. 16; v. 272; p. 442.
Johnson, Philip H., Beckenham, England. Means of suspension of vehicles. No. 1,329,769; Feb. 3; v. 271; p. 79.
Johnson, Philip H., Beckenham, England. Means of suspension of vehicles. No. 1,330,119; Feb. 10; v. 271; p. 177.

Digitized by Google

Johnson, Ralph D., Fairbury, Ill. Clothesline. No. 1,352,273; Sept. 7; v. 278; p. 107.
Johnson-Randall Company. (See Perkett, L. F., and Madary, assignors.)
Johnson, Raymond D., Sea Gate, Coney Island, N. Y. Tank and forming the same. No. 1,339,062; May 4; v. 274; p. 77.
Johnson Rim and Parts Company. (See Johnson, Charles, assignor.)
Johnson, Robert, assignor of one-half to I. Yahr, Floresville, Tex. Combined rail-anchor and tie-plate. No. 1,329,664; Feb. 3; v. 271; p. 59.
Johnson, Robert J., Logan, Utah. Beet-topper. No. 1,327,760; Jan. 13; v. 270; p. 226.
Johnson, Robert W., and J. Bloom, Blue Island, Ill. Sprinkler. No. 1,336,699; Apr. 13; v. 273; p. 248.
Johnson, Roswell H. (See Silverman, A., and Johnson.)
Johnson, Royal K., assignor to The Minerva Engine Company, Cleveland, Ohio. Internal-combustion engine. No. 1,347,276; July 20; v. 276; p. 506.
Johnson, Samuel, Tooele, Utah. Weed-cutter. No. 1,341,804; June 1; v. 275; p. 38.
Johnson, Samuel P., Longacre, W. Va. Automatic mechanism for stopping trains. No. 1,345,599; July 6; v. 276; p. 54.
Johnson, Sena J. P., Kalispell, Mont. Spring-hinge catch for washboards and tubs. No. 1,362,943; Dec. 21; v. 281; p. 486.
Johnson Service Company. (See Otto, Arthur J., assignor.)
Johnson, Sophia B., Boston, Mass. Bedpan. No. 1,361,385; Dec. 7; v. 281; p. 81.
Johnson, Stephen C., assignor of one-half to L. L. Utter, Detroit, Mich. Switch-box support. No. 1,346,895; July 20; v. 276; p. 430.
Johnson, Sven A., Brooklyn, N. Y. Air-compressor. No. 1,350,159; Aug. 17; v. 277; p. 519.
Johnson, Sven P., Philadelphia, Pa., assignor to Niles-Bement-Pond Company, Jersey City, N. J. Electric feed mechanism for planers and current-controlling system therefor. No. 1,342,915; June 8; v. 275; p. 308.
Johnson, Thomas A., Rockford, Ill. Bottle-stopper protector and supporter. No. 1,352,967; Sept. 14; v. 278; p. 280.
Johnson, Thomas C., assignor to Winchester Repeating Arms Co., New Haven, Conn. Bolt-action gun. No. 1,331,154; Feb. 17; v. 271; p. 439.
Johnson, Thomas C., assignor to Winchester Repeating Arms Co., New Haven, Conn. Box-magazine for firearms. No. 1,331,155; Feb. 17; v. 271; p. 439.
Johnson, Thomas C., assignor to Winchester Repeating Arms Co., New Haven, Conn. Bolt-gun. No. 1,335,440; Mar. 30; v. 272; p. 834.
Johnson, Thomas C., assignor to Winchester Repeating Arms Co., New Haven, Conn. Bolt-action firearm. No. 1,349,675; Aug. 17; v. 277; p. 427.
Johnson, Thomas C., assignor to Winchester Repeating Arms Co., New Haven, Conn. Bolt-action gun. No. 1,355,673; Oct. 12; v. 279; p. 293.
Johnson, Thomas W., North Attleboro, Mass. Brush. No. 1,339,894; May 11; v. 274; p. 309.
Johnson, Thure A., Lynn, Mass. Holder for shelves. No. 1,347,464; July 20; v. 276; p. 542.
Johnson, Tomlinson F., Jr., Atlanta, Ga. Spark-gap indicator. No. 1,344,042; June 22; v. 275; p. 658.
Johnson, Tomlinson F., Jr., Atlanta, Ga. Spark-gap indicator. No. 1,347,378; July 20; v. 276; p. 525.
Johnson, Walter, North Loup, Nebr. Treating mineral oils. No. 1,354,257; Sept. 28; v. 278; p. 641.
Johnson, William A., *et al.* (See Johnson, Charles E., assignor.)
Johnson, William A., Yonkers, N. Y. Paper-cutter. No. 1,362,322; Dec. 14; v. 281; p. 315.
Johnson, William A., Fairmont, W. Va. Railway signal-flag. No. 1,362,704; Dec. 21; v. 281; p. 448.
Johnson, William B., Walton, Ky. Tobacco-chart. No. 1,331,567; Feb. 24; v. 271; p. 536.
Johnson, William B., Atlanta, Ga. Food composition for making cakes, &c. No. 1,335,242; Mar. 30; v. 272; p. 797.
Johnson, William B., Elkhart, Ind., assignor to Foster-Johnson Reamer Company. Adjustable reamer. No. 1,345,929; July 6; v. 276; p. 119.
Johnson, William C., Memphis, Tenn. Absorbent block. No. 1,357,989; Nov. 9; v. 280; p. 212.
Johnson, William D., Oakland, Calif. Insect-trap. No. 1,347,906; July 27; v. 276; p. 687.
Johnson, William E., Halifax, Nova Scotia, Canada. Apparatus for loading barrels. No. 1,362,488; Dec. 14; v. 281; p. 346.
Johnson, William H., *et al.* (See Scholes, Edmond P., assignor.)
Johnson, William H., Perry, Okla. Steering-balance. No. 1,346,211; July 13; v. 276; p. 235.
Johnson, William H., Paducah, Ky. Train-control apparatus. No. 1,362,104; Dec. 14; v. 281; p. 271.
Johnson, Willie H., Chicago, Ill. Globe-valve. No. 1,346,210; July 13; v. 276; p. 235.
Johnson, Willis H., Waterloo, Iowa. Lubricant-segregating means for inverted internal-combustion engines. No. 1,362,006; Dec. 14; v. 281; p. 253.
Johnson, Wilson E., Kempton, Ind. Electric heater for stock-watering tanks. No. 1,334,035; Mar. 16; v. 272; p. 464.
Johnson, Woolsey M., Hartford, Conn. Hermetic unit smelting system. No. 1,327,282; Jan. 6; v. 270; p. 75.
Johnson, Woolsey M., Hartford, Conn. Copper-lead-smelting process. No. 1,333,720; Mar. 16; v. 272; p. 405.
Johnson, Woolsey M., Hartford, Conn. Ebullient refining process. No. 1,333,721; Mar. 16; v. 272; p. 405.
Johnson, Woolsey M., Hartford, Conn. Mineral-manure process. No. 1,338,734; May 4; v. 274; p. 16.
Johnston, A. W. (See Phelps, E. B., Stevenson, and Baker, assignors.)
Johnston, Alexander G. (See Sprague, James C., and Johnston.)
Johnston, Clarence L. (See Brown and Johnston.)
Johnston, Clarence L., assignor of one-half to H. P. Brown, Oakland, Calif. Interfolding-machine. No. 1,346,602; July 13; v. 276; p. 313.
Johnston, Don D., Jasper, Mo. Clothespin. No. 1,355,148; Oct. 12; v. 279; p. 191.
Johnston, E. A., and E. J. Kane, assignors, by mesne assignments, to International Harvester Company, Chicago, Ill. Tractor steering mechanism. No. 1,351,759; Sept. 7; v. 278; p. 9.
Johnston, Edward A., Chicago, and C. W. Mott, Berwyn, Ill., assignors, by mesne assignments, to International Harvester Company. Draft connection. No. 1,354,654; Oct. 5; v. 279; p. 42.
Johnston, Edwin A., Johnstown, Pa. Closet-ventilator. No. 1,342,716; June 8; v. 275; p. 268.
Johnston, Frank B., assignor to American Safety Device Company, New York, N. Y. Safety-scaffold. No. 1,352,454; Sept. 14; v. 278; p. 177.
Johnston, Frank B., assignor to American Safety Device Company, New York, N. Y. Scaffold-supporting machine. No. 1,352,455; Sept. 14; v. 278; p. 177.
Johnston, Frank H. (See Phillips, Erbine C., assignor.)
Johnston, Frank H., assignor to Acme Card System Company, Chicago, Ill. Card-protector. No. 1,354,616; Oct. 5; v. 279; p. 34.
Johnston, Frank H., and J. C. Christensen, Indianapolis, Ind. Pulley and like element. No. 1,331,156; Feb. 17; v. 271; p. 439.
Johnston, Frank H., and J. C. Christensen, Indianapolis, Ind. Pulley and like element. No. 1,337,135; Apr. 13; v. 273; p. 331.
Johnston, Frank H., and J. C. Christensen, Indianapolis, Ind. Pulley and like element. No. 1,337,136; Apr. 13; v. 273; p. 332.
Johnston, Genevieve. (See Johnston, Horace G., assignor.)
Johnston, George H., Apollo, Pa. Calipers. No. 1,328,566; Jan. 20; v. 270; p. 415.
Johnston, George S., Company. (See Johnston, G. S., Ihrcke, and Partenheimer, assignors.)
Johnston, George S., Evanston, and F. A. Ihrcke and C. A. Partenheimer, Chicago, Ill., assignors to George S. Johnston Company, Chicago, Ill. Goggles. No. 1,338,508; Apr. 27; v. 273; p. 785.
Johnston, George W., Jr., Rathmel, Pa. Burner-tip cleaner. No. 1,338,633; Apr. 27; v. 273; p. 758.
Johnston, George W., St. Joseph, Mo. Submerged power-wheel. No. 1,360,221; Nov. 23; v. 280; p. 742.
Johnston, George W., St. Joseph, Mo. Submerged compressed-air power plant. No. 1,360,222; Nov. 23; v. 280; p. 742.
Johnston, Harry B., Seattle, Wash. Piston and piston-ring. No. 1,330,188; Feb. 10; v. 271; p. 189.
Johnston, Harry B., Seattle, Wash. Piston and piston-ring. No. 1,330,189; Feb. 10; v. 271; p. 190.
Johnston, Harry B., Seattle, Wash. Piston and piston-ring. No. 1,333,023; Mar. 9; v. 272; p. 213.
Johnston, Harry B., Seattle, Wash. Piston and piston-ring. No. 1,335,339; Mar. 30; v. 272; p. 816.
Johnston, Horace G., assignor to G. Johnston, Corsicana, Tex. Attachment for rotaries. No. 1,347,379; July 20; v. 276; p. 525.
Johnston, Horace G., assignor to G. Johnston, Corsicana, Tex. Rotary-drill head. No. 1,348,117; July 27; v. 276; p. 729.
Johnston, James A., Seattle, Wash., assignor of 20 per cent. to T. J. Claffey and five per cent. to N. Ambrose, Chicago, Ill. Drainage-trap. No. 1,363,792; Dec. 28; v. 281; p. 691.
Johnston, James S., Utica, N. Y. Machine-gun. No. 1,328,230; Jan. 13; v. 270; p. 315.
Johnston, James S., Utica, N. Y. Machine-gun. No. 1,335,839; Apr. 6; v. 273; p. 25.
Johnston, John, London, England. Rotary compressor or exhauster. No. 1,357,872; Nov. 2; v. 280; p. 128.
Johnston, John O., Newark, N. J. Motorcycle. No. 1,332,042; Feb. 24; v. 271; p. 626.
Johnston, John S., Etiwanda, Calif. Wedge-fastener for tool-handles. No. 1,343,781; June 15; v. 275; p. 542.
Johnston, Joseph S., Emporium, Pa. Sleeve-holder. No. 1,329,908; Feb. 3; v. 271; p. 105.
Johnston, Millard L., Utica, N. Y. Gun-mount. No. 1,337,359; Apr. 20; v. 273; p. 448.
Johnston, Nelson P., Anderson, Ind. Swimming device. No. 1,335,687; Mar. 30; v. 272; p. 881.

Digitized by Google

Johnston, Omer W., assignor of one-half to Larmon G. Townsend, Libby, Mont. Adjustable speed-controlling device for log-chutes. No. 1,359,386; Nov. 16; v. 280; p. 531.
Johnston, Paul D., Soquel, Calif. Combined pencil holder and sharpener. No. 1,361,732; Dec. 7; v. 281; p. 151.
Johnston, Philip D., Cold Spring, N. Y. Internal-combustion engine. No. 1,344,407; June 22; v. 275; p. 729.
Johnston, Robert M., assignor to Jeffery De Witt Company, Detroit, Mich. Insulator. No. 1,329,770; Feb. 3; v. 271; p. 79.
Johnston, Samuel C., Lancaster, S. C. Knock-off mechanism for looms. No. 1,353,343; Sept. 21; v. 278; p. 413.
Johnston, W. H., and H. J. Williams, assignors, by mesne assignments, to United Beverage Machine Company, New York, N. Y. Liquid-dispenser. No. 1,360,298; Nov. 30; v. 280; p. 826.
Johnston, Walter L. and F. L., Sidney, Nebr. Beet-topping machine. No. 1,341,909; June 1; v. 275; p. 58.
Johnston, William A., and A. W. Browne, Prince Bay, N. Y., and F. L. Wallace, Philadelphia, Pa., assignors to The S. S. White Dental Manufacturing Company, Philadelphia, Pa. Anesthetic-administering apparatus. No. 1,340,448; May 18; v. 274; p. 471.
Johnston, William H., Raleigh, N. C. Portable fireplace heating-stove. No. 1,336,700; Apr. 13; v. 273; p. 248.
Johnston, William R. (See Popcke, A. G., and Johnston.)
Johnstone, H. E. (See Hudson, Frank W., assignor.)
Johnstone, James, New York, N. Y. Roller-shade. No. 1,344,448; June 22; v. 275; p. 738.
Johnstone, Robert M., Roselle Park, N. J., assignor to Cameron Machine Company, Brooklyn, N. Y. Winding mechanism. No. 1,355,106; Oct. 5; v. 279; p. 130.
Johnstone, Robert M., Roselle Park, N. J., assignor to Cameron Machine Company, Brooklyn, N. Y. Winding mechanism. No. 1,355,107; Oct. 5; v. 279; p. 130.
Johoson, Carl E., Boundbrook, N. J. Drier-tray. No. 1,349,458; Aug. 10; v. 277; p. 311.
Jointless Fire Brick Company. (See Schaefer, William A. L., assignor.)
Joiris, Jean L., Wandre, Belgium. Shotgun and like gun. No. 1,351,952; Sept. 7; v. 278; p. 48.
Jokel, Jules, New York N. Y. Computing-table. No. 1,359,603; Nov. 23; v. 280; p. 620.
Jokisch, John, Detroit, Mich. Brush especially adapted for cleaning stovepipes. No. 1,328,164; Jan. 13; v. 270; p. 300.
Jokubaitis, Damian, Terre Haute, Ind. Starter for automobiles. No. 1,349,207; Aug. 10; v. 277; p. 261.
Jokubaitis, Damian, Terre Haute, Ind. Combined compass and quadrant. No. 1,354,195; Sept. 28; v. 278; p. 628.
Joliet Railway Supply Company. (See Burry, Vincent J., assignor.)
Jolley, Thomas M., Des Moines, Iowa. Music-leaf turner. No. 1,339,261; May 4; v. 274; p. 113.
Jolly, Benjamin R., Raleigh, N. C. Buckle and strap. No. 1,333,421; Mar. 9; v. 272; p. 287.
Jolly, Benjamin R., Raleigh, N. C. Fly-swatter. No. 1,356,371; Oct. 19; v. 279; p. 671.
Jonassen, Alfred C. and N., Whakatane, New Zealand. Resilient tire. No. 1,353,757; Sept. 21; v. 278; p. 496.
Jonassen, Jonas G., Brooklyn, N. Y. Dispensing-container. No. 1,363,656; Dec. 28; v. 281; p. 665.
Jonassen, Kristian. (See Brœkke, H. G. H., and Jonassen.)
Jones, Aaron G., Hardwood, assignor of one-half to D. A. Nolen, Olney, Okla. Air-compressing means. No. 1,333,923; Mar. 16; v. 272; p. 442.
Jones, Albert C. (See Wade, Edwin T., assignor.)
Jones, Albert D., Quincy, Calif. Automatic spark-arrester. No. 1,355,761; Oct. 12; v. 279; p. 310.
Jones, Albert R., Independence, Kans. Oil-refining apparatus. No. 1,328,522; Jan. 20; v. 270; p. 407.
Jones, Alfred, Chicago, Ill. Draft appliance for chimneys or ventilator-stacks. No. 1,345,195; June 29; v. 275; p. 947.
Jones, Allen H., Belleville, N. J. Roller-bearing and making same. No. 1,343,885; June 15; v. 275; p. 563.
Jones, Ammon K., Neosho, Mo. Plow. No. 1,348,219; Aug. 3; v. 277; p. 17.
Jones, Andrew S., Spokane, Wash. Juvenile car. No. 1,358,746; Nov. 16; v. 280; p. 408.
Jones, Arthur, Los Angeles, Calif., assignor to U. S. Smelting Furnace Company, Belleville, Ill. Smelting-furnace. No. 1,334,459; Mar. 23; v. 272; p. 590.
Jones, Arthur W., Stepps, J. Bryden, Cartcosh, and A. J. H. Mowbray, Stirling Scotland. Grip for handling slabs, bars, billets, or other material. No. 1,345,930; July 6; v. 276; p. 119.
Jones & Attwood. (See Clifford, William, assignor.)
Jones, Augustus W., and R. Kaiser, Rockville Center, N. Y. Liquid-gage. No. 1,363,982; Dec. 28; v. 281; p. 728.
Jones, Basil L., Winfield, Iowa. Mechanical race-track. No. 1,360,754; Nov. 30; v. 280; p. 915.
Jones, Bassett, Mahwah, N. J., assignor to The J. G. Wilson Corporation, Norfolk, Va. Lighting-fixture. No. 1,357,568; Nov. 2; v. 280; p. 69.
Jones, Bassett, Mahwah, N. J. Reflector. No. 1,361,587; Dec. 7; v. 281; p. 123.
Jones, Benjamin W., Schenectady, N. Y., assignor to General Electric Company. Control of electric motors. No. 1,347,781; July 27; v. 276; p. 663.
Jones, Bevan, New York, N. Y. Window construction. No. 1,357,569; Nov. 2; v. 280; p. 69.
Jones, Buddington W. (See Barnes, Carl C., assignor.)
Jones, Carl G., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Co. System of ventilation for transformers. No. 1,351,042; Aug. 31; v. 277; p. 800.
Jones, Catherine J., Allegany, N. Y. Adjustable combination-support. No. 1,361,733; Dec. 7; v. 281; p. 151.
Jones, Charles C., Los Angeles, Calif. Extracting iron from its ores. No. 1,348,804; Aug. 3; v. 277; p. 129.
Jones, Charles G., Asheville, N. C. Combination ironing-table. No. 1,328,000; Jan. 13; v. 270; p. 271.
Jones, Charles H., Medford, Mass. Mechanism for guiding and spacing candy. No. 1,352,607; Sept. 14; v. 278; p. 208.
Jones, Charles J., Cheyenne, Wyo. Weather-strip. No. 1,352,276; Sept. 7; v. 278; p. 107.
Jones, Charles K. (See Macbeth, C., and Jones.)
Jones, Charles W., St. Paul, Minn. Razor-blade holder. No. 1,339,397; May 11; v. 274; p. 214.
Jones, Clarence V., Toronto, Ontario, Canada. Window-operating device. No. 1,345,010; June 29; v. 275; p. 911.
Jones, Clayton M., Jamestown, N. Y. Wrench. No. 1,348,143; July 27; v. 276; p. 734.
Jones, Clifford C., Washington, D. C. Fire-extinguishing apparatus. No. 1,338,778; May 4; v. 274; p. 24.
Jones, Coulter W., assignor to The Dow Chemical Company, Midland, Mich. Manufacture of bromates. No. 1,343,918; June 22; v. 275; p. 635.
Jones, E. D., & Sons Company. (See Dorman, Alfred, assignor.)
Jones, Edmund V., Rock Ferry, England. Apparatus for injecting fluids and semisolids. No. 1,328,567; Jan. 20; v. 270; p. 415.
Jones, Edward C. (See Jones, J. L. and E. C.)
Jones, Edwin, Cleveland, Ohio. Uncoupling device for car couplings. No. 1,347,380; July 20; v. 276; p. 526.
Jones, Edwin C., Toronto, Ontario, Canada. Buckle. No. 1,327,434; Jan. 6; v. 270; p. 103.
Jones, El Dorado. (See Delavan, Sophia E., assignor.)
Jones, Elmer M. (See Bennett, R. W., and Jones.)
Jones, Emil J., Jamestown, N. Y. Knockdown sheet-metal drawer. No. 1,352,002; Sept. 7; v. 278; p. 57.
Jones, Ernest F., and P. F. W. Bayley, Epsom, Auckland, New Zealand. Headlight-swiveling apparatus. No. 1,332,903; Mar. 9; v. 272; p. 190.
Jones, Ernest H., Islington, London, England. Manufacture of electrodes for soldering and depositing metals by the electric arc. No. 1,339,515; May 11; v. 274; p. 237.
Jones, Ernest H., Islington, London, England. Electrode for soldering and depositing metals by the electric arc. No. 1,341,647; June 1; v. 275; p. 6.
Jones, Ernest R. (See Stott, O., and Jones.)
Jones, Francis M., Rosiclare, Ill. Lamp-bracket. No. 1,327,479; Jan. 6; v. 270; p. 111.
Jones, Frank, Kenilworth, Utah. Motor attachment for drilling-machines. No. 1,330,190; Feb. 10; v. 271; p. 190.
Jones, Frank, Salt Lake City, Utah. Beet screening, piling, and loading machine. No. 1,336,297; Apr. 6; v. 273; p. 112.
Jones, Frank, Salt Lake City, Utah. Beet-loading machine. No. 1,356,529; Oct. 26; v. 279; p. 549.
Jones, Frank A., Dayton, Ky. Automatic advertising device. No. 1,363,121; Dec. 21; v. 281; p. 521.
Jones, Frank B., Altoona, Pa. Steam-trap. No. 1,340,958; May 25; v. 274; p. 638.
Jones, Frank E., administrator. (See Jones, Harry W.)
Jones, Frank E., Central Falls, assignor, by mesne assignments, to Hemphill Company, Pawtucket, R. I. Yarn-changer mechanism for knitting-machines. No. 1,341,324; May 25; v. 274; p. 709.
Jones, Frank E., Sebring, Ohio, assignor to General Electric Company. Metal reflector and making same. No. 1,347,335; July 20; v. 276; p. 517.
Jones, Frank M., Boston, Mass. Dough-mixing machine. No. 1,335,737; Apr. 6; v. 273; p. 6.
Jones, Frank S., Lynn, Mass. Toy rapid-fire gun. No. 1,360,410; Nov. 30; v. 280; p. 847.
Jones, Fred E., Brockton, Mass. Checkwriter. No. 1,334,540; Mar. 23; v. 272; p. 605.
Jones, Fred W., Swanwick, Ill. Wrench. No. 1,335,688; Mar. 30; v. 272; p. 881.
Jones, Gentry, deceased, Redhouse, Ky.; Z. M. Jones, administratrix. Electric mail-carrier. No. 1,358,557; Nov. 9; v. 280; p. 325.
Jones, George A., Baldwin, assignor to Ordnance Engineering Corporation, New York, N. Y. Adjustable liner for type-casting machines. No. 1,340,831; May 18; v. 274; p. 543.
Jones, George A. E., New London, Conn., assignor to United States Electric Company. Riveting-machine. No. 1,331,568; Feb. 24; v. 271; p. 536.

Digitized by Google

Jones, George G., Cleveland, assignor to Industrial Research Corporation, Toledo, Ohio. Device for removing tires from rims. No. 1,352,135; Sept. 7; v. 278; p. 81.
Jones, George H. (See Wilbur, Burt, assignor.)
Jones, George H., New York, N. Y. Beam of balsa and like woods and fastening device therefor. No. 1,358,080; Nov. 9; v. 280; p. 230.
Jones, George J. (See Partington, Jones, and Brownson.)
Jones, Harry, Manchester, Ga. Planter. No. 1,358,747; Nov. 16; v. 280; p. 408.
Jones, Harry B., *et al.* (See Salsman, James E., assignor.)
Jones, Harry H., Boston, Mass. Combination electric switch. No. 1,340,230; May 18; v. 274; p. 429.
Jones, Harry H., Segundo, assignor of one-half to A. L. Dain, Trinidad, Colo. Flue-cleaning machine. No. 1,339,348; May 4; v. 274; p. 129.
Jones, Harry H., Portland, Oreg. Rifle. No. 1,343,456; June 15; v. 275; p. 477.
Jones, Harry J., Kansas City, Mo. Gear-shift for automobiles. No. 1,331,814; Feb. 24; v. 271; p. 583.
Jones, Harry W., deceased, Independence; F. E. Jones, administrator, assignor to The Kansas City Gasoline Company, Kansas City, Kans. Apparatus for refining mineral oils. No. 1,336,357; Apr. 6; v. 273; p. 123.
Jones, Harry W., deceased, Independence; F. E. Jones, administrator, assignor to The Kansas City Gasoline Company, Kansas City, Kans. Apparatus for cracking petroleum. No. 1,347,543; July 27; v. 276; p. 614.
Jones, Harry W., deceased, Independence; F. E. Jones, administrator, assignor to The Kansas City Gasoline Company, Kansas City, Kans. Treating hydrocarbons. No. 1,347,544; July 27; v. 276; p. 615.
Jones, Harry W., Independence, assignor to The Kansas City Gasoline Company, Kansas City, Kans. Apparatus for cracking petroleum. No. 1,356,208; Oct. 19; v. 279; p. 440.
Jones, Harry W., San Francisco, Calif., assignor to American Can Company, New York, N. Y. Paper box. No. 1,359,708; Nov. 23; v. 280; p. 640.
Jones, Henry P., *et al.* (See Gabel, T. R., and Holdaway, assignors.)
Jones, Henry P., *et al.* (See Holdaway, H. H., and Gabel, assignors.)
Jones, Horatio P., Danville, Pa. Implement-hitch. No. 1,360,223; Nov. 23; v. 280; p. 742.
Jones, Howard F., Warrenton, N. C. Gage. No. 1,358,374; Nov. 9; v. 280; p. 288.
Jones, Jacob, Issaquah, Wash. Carbureter attachment. No. 1,344,001; June 22; v. 275; p. 650.
Jones, Jacob, Ringling, Mont. Needle-magazine and feeding device for sound-boxes. No. 1,358,157; Nov. 9; v. 280; p. 245.
Jones, James E. (See Demorest, Edmurn L., assignor.)
Jones, James E. (See Moody, William E., assignor.)
Jones, James E. (See Wilkins, O., and Moody, assignors.)
Jones, James E. (See Newdick, N. A., and Moody, assignors.)
Jones, James E., Switchback, W. Va. Coal-handling apparatus. No. 1,357,456; Nov. 2; v. 280; p. 48.
Jones, Jay D., New York, N. Y. Light-deflector for lamps. No. 1,350,811; Aug. 24; v. 277; p. 693.
Jones, Jeff H. (See Jones, William M. and J. H.)
Jones, Jesse L., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Removing lead from copper-scrap. No. 1,349,382; Aug. 10; v. 277; p. 296.
Jones, John, Philadelphia, Pa. Hot-top for ingot-molds. No. 1,334,036; Mar. 16; v. 272; p. 465.
Jones, John C., Brookline, Mass. Coin-receptacle. No. 1,329,771; Feb. 3; v. 271; p. 79.
Jones, John B., Brookville, Pa. Rifle-cleaning rod. No. 1,347,387; July 20; v. 276; p. 526.
Jones, John D., Walla Walla, Wash. Lubricating system for explosive-engines. No. 1,355,229; Oct. 12; v. 279; p. 207.
Jones, John D., Walla Walla, Wash. Self-oiling bearing. No. 1,362,571; Dec. 14; v. 281; p. 362.
Jones, John G., Detroit, Mich. Electric-light bracket. No. 1,340,273; May 18; v. 274; p. 437.
Jones, John J., Wichita, Kans. Automobile-body construction. No. 1,352,066; Sept. 7; v. 278; p. 68.
Jones, John L. and E. C., Kansas City, Mo. Silo. No. 1,345,544; July 6; v. 276; p. 48.
Jones, John W. (See Stretton, T., and Jones.)
Jones, John W., Byers, Tex. Cotton-chopper. No. 1,359,709; Nov. 23; v. 280; p. 641.
Jones, Johnny J. (See Stock, John J., assignor.)
Jones, Jonathan S., Oak Park, Ill. Weighing-scale. No. 1,363,253; Dec. 28; v. 281; p. 588.
Jones, Joseph, Cincinnati, Ohio, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Shoe-counter. No. 1,351,172; Aug. 31; v. 277; p. 825.
Jones, Joseph H., assignor of one-half to T. E. Heatley, Winthrop, Mass. Fly-frame. No. 1,347,165; July 20; v. 276; p. 483.
Jones, Joseph W. (See Montague, Merrell S., assignor.)
Jones, Joseph W., New York, N. Y. Centrifugal tachometer. No. 1,330,120; Feb. 10; v. 271; p. 177.
Jones and Laughlin Steel Company. (See O'Neil, D. Holmquist, and Free, assignors.)
Jones, Lee V. (See Bitler, Frederic C., assignor.)
Jones, Leo D., Philadelphia, assignor to The Sharpless Specialty Company, West Chester, Pa. Extraction of fatty and oily matters from wet sludges. No. 1,328,047; Jan 13; v. 270; p. 280.
Jones, Lenora H., Wichita, Kans. Electric push-button or push-button switch. No. 1,333,115; Mar. 9; v. 272; p. 230.
Jones, Lenora H., Wichita, Kans. Lock-nut. No. 1,341,175; May 25; v. 274; p. 680.
Jones, Leonard W. (See Bell, W. T., Watson, and Jones.)
Jones, Leroy B. (See France, W. M., and Jones.)
Jones, Llewellyn, Muncie, Ind., assignor of one-third to C. Westlake, Jr., Youngstown, Ohio. Producing iron and steel bars. No. 1,354,492; Oct. 5; v. 279; p. 9.
Jones, Lloyd, assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Rolling-mill. No. 1,354,976; Oct. 5; v. 279; p. 105.
Jones, Lloyd A., assignor to O. G. Stark, St. Louis, Mo. Automobile-radiator. No. 1,335,840; Mar. 30; v. 272; p. 816.
Jones, Madeline H. (See Jones, Richard T. and M. H.)
Jones, Mattie L., Youngstown, Ohio. Self-raising window. No. 1,355,046; Oct. 5; v. 279; p. 110.
Jones, Michael, Melbourne, Victoria, Australia. Machine for making clothes-pegs and other round wooden articles. No. 1,355,340; Oct. 12; v. 279; p. 230.
Jones, Oceola, Houston, Tex. Compound air-compressor. No. 1,331,111; Feb. 17; v. 271; p. 431.
Jones, Oliver A., and J. T. Fairbourn, Bacchus, Utah. Clutch. No. 1,334,864; Mar. 23; v. 272; p. 667.
Jones, Oliver R., Welland, Ontario, Canada. Wrench. No. 1,352,186; Sept. 7; v. 278; p. 82.
Jones, Omar G., Philadelphia, Pa. Car-fender. No. 1,343,727; June 15; v. 275; p. 531.
Jones, Oscar B., and D. W. Spence, Columbus, Ohio. Valve-truing device. No. 1,342,632; June 8; v. 275; p. 251.
Jones, Oscar L., Pennville, Ind. Portable turntable. No. 1,358,748; Nov. 16; v. 280; p. 409.
Jones, Owen M., New York, N. Y. Fluid-pressure-operated controller. No. 1,335,898; Apr. 6; v. 273; p. 37.
Jones, Owen M., New York, N. Y. Valve. No. 1,364,059; Dec. 28; v. 281; p. 742.
Jones, Owen M., New York, N. Y. Valve. No. 1,364,060; Dec. 28; v. 281; p. 743.
Jones, Owen M., New York, N. Y. Pressure-regulating valve. No. 1,364,061; Dec. 28; v. 281; p. 743.
Jones, Owen M., New York, N. Y. Valve. No. 1,364,062; Dec. 28; v. 281; p. 743.
Jones, Ralph L., Gordon, Tex. Sling-shot. No. 1,346,754; July 13; v. 276; p. 344.
Jones, Richard T. and M. H., Baltimore, Md. Driving mechanism for vehicles. No. 1,330,121; Feb. 10; v. 271; p. 177.
Jones, Robert E., Bremerton, Wash. Animal-trap. No. 1,358,749; Nov. 16; v. 280; p. 409.
Jones, Robert F., Eastport, Me., assignor to W. Waltke & Co., St. Louis, Mo. Machine for boxing sardine-cans and the like. No. 1,337,404; Apr. 20; v. 273; p. 457.
Jones, Robert R. (See Beck, O. F., Spears, and Jones.)
Jones, Russell C., Garden City, N. Y., assignor to Griscom-Russell Company. High-heat-level evaporator system. No. 1,328,998; Jan. 27; v. 270; p. 525.
Jones, Russell C., Bronxville, N. Y., assignor to The Griscom-Russell Company. Oil-cooler. No. 1,335,506; Mar. 30; v. 272; p. 847.
Jones, Russell C., Bronxville, N. Y., assignor to The Griscom Russell Company. Oil-cooler. No. 1,355,980; Oct. 19; v. 279; p. 393.
Jones, Samuel H. (See Jones, William M. and J. H., assignors.)
Jones, Samuel M., assignor to Arnold Print Works, North Adams, Mass. Mercerization. No. 1,343,138; June 8; v. 275; p. 353.
Jones, Samuel M., assignor to Arnold Print Works, North Adams, Mass. Mercerization. No. 1,343,139; June 8; v. 275; p. 353.
Jones, Samuel M., assignor to Arnold Print Works, North Adams, Mass. Mercerization. No. 1,346,802; July 13; v. 276; p. 354.
Jones, Samuel M., assignor to Arnold Print Works, North Adams, Mass. Mercerization. No. 1,346,803; July 13; v. 276; p. 354.
Jones, Sidney P., Waco, Tex. Rotary cutting device for razors. No. 1,338,305; Apr. 27; v. 273; p. 697.
Jones, Sidney P., Waco, Tex. Rotary razor. No. 1,350,227; Aug. 17; v. 277; p. 583.
Jones, Sidney P., and D. P. Wallace, Waco, Tex. Hair-clipper. No. 1,356,866; Oct. 26; v. 279; p. 615.
Jones, Simon, New York, N. Y. Furniture-bracket. No. 1,345,011; June 29; v. 275; p. 911.
Jones, Simon, New York, N. Y. Holder. No. 1,345,012; June 29; v. 275; p. 911.
Jones, Slone A., Springville, Ala. Rail-joint. No. 1,346,656; July 13; v. 276; p. 324.
Jones, Thomas J., Herrin, Ill. Automatic flying-switch mechanism. No. 1,354,403; Sept. 28; v. 278; p. 670.
Jones, Thomas G., Newport, England. Metal seal. No. 1,356,152; Oct. 19; v. 279; p. 428.

Digitized by Google

Alphabetical list of patentees—Continued.

Jones, Walter, Stourbridge, England. Purification of sewage and other liquids. No. 1,341,561; May 25; v. 274; p. 755.
Jones, Walter J., New York, N. Y., assignor to B. B. Chichester, L. P. Stradley, and H. A. Stone, trustees under a Massachusetts Trust. Cutting holes in ships' walls. No. 1,351,518; Aug. 31; v. 277; p. 894.
Jones, Whitfield E., Jr., Etna, assignor to Pittsburgh Can Company, Pittsburgh, Pa. Can. No. 1,356,507; Oct. 19; v. 279; p. 497.
Jones, Whitman G., Great Falls, Mont. Sidewalk-plow. No. 1,337,076; Apr. 13; v. 273; p. 321.
Jones, William B., Vaughan, Miss. Kitchen implement. No. 1,332,260; Mar. 2; v. 272; p. 16.
Jones, William E., assignor of one-half to C. S. Williams, Ellisville, Miss. Swingletree. No. 1,335,971; Apr. 6; v. 273; p. 51.
Jones, William H. (See Davies, J., Jones, and Hale.)
Jones, William L., Philadelphia, Pa., assignor to Vibro-Dental Products, Incorporated. Dental massage-tool. No. 1,340,959; May 25; v. 274; p. 638.
Jones, William M. and J. H., assignors of one-third to S. H. Jones, New Holstein, Wis. Stump puller and piler. No. 1,341,176; May 25; v. 274; p. 680.
Jones, William P. (See Merritt, O. L., and Jones.)
Jones, Zerelda M., administratrix. (See Jones, Gentry.)
Jongepier, Jacobus F. G., Schiedam, Netherlands. Office-ledger. No. 1,343,879; June 15; v. 275; p. 562.
Jongepier, Jacobus F. G., Schiedam, Netherlands. Office-ledger. No. 1,355,903; Oct. 19; v. 279; p. 378.
Jonsson, Gustaf E., Halmstad, assignor to Aktiebolaget Mjolkningsmaskinen Manus Norrkoping, Sweden. Milking-machine. No. 1,363,739; Dec. 28; v. 281; p. 681.
Jonsson, Jonas, assignor of one-third to F. C. Miller and one-third to J. A. Johnson, Leonardville, Kans. Combined extensible or adjustable and foldable stepladder. No. 1,343,542; June 8; v. 275; p. 234.
Jopling, Pearson. (See Hoffman, M., and Jopling.)
Jordahn, Gus, Palm Beach, Fla. Floating device. No. 1,341,272; May 25; v. 274; p. 698.
Jordan, Burton S., assignor to J. E. Porter Company, Ottawa, Ill. Overhead track. No. 1,328,523; Jan. 20; v. 270; p. 407.
Jordan, Charles F., New York, N. Y. Car-door lock. No. 1,361,159; Dec. 7; v. 281; p. 35.
Jordan, Curtis S., Los Angeles, Calif. Timer. No. 1,354,655; Oct. 5; v. 279; p. 42.
Jordan, Daniel, and W. E. Belden, Harrison, Nebr. Gate-operating device. No. 1,334,460; Mar. 23; v. 272; p. 590.
Jordan, Daniel, Harrison, Nebr. Gate. No. 1,343,367; June 15; v. 275; p. 460.
Jordan, Elizabeth, Cleveland Ohio. Holder for wall-paper cleaners. No. 1,357,060; Oct 26; v. 279; p. 653.
Jordan, Frank, New York, N. Y. Artificial minnow. No. 1,361,067; Dec. 7; v. 281; p. 17.
Jordan, Fred A. (See Swart, W. G., Jordan, Davis, and Counselman.)
Jordan, Harald, Copenhagen, Denmark. Life-saving apparatus. No. 1,360,755; Nov. 30; v. 280; p. 915.
Jordan, Harry W., Syracuse, N. Y. Hose-nozzle for pneumatic cotton-picking machines. No. 1,334,760; Mar. 23; v. 272; p. 646.
Jordan, Jay B., East Rochester, N. Y. Sled. No. 1,349,066; Aug. 10; v. 277; p. 233.
Jordan, Leland K., Monticello, Ga. Stencil-stamp. No. 1,355,047; Oct. 5; v. 279; p. 119.
Jordan, Linwood F., Portland, Me. Vehicle-wheel. No. 1,338,634; Apr. 27; v. 273; p. 758.
Jordan, Linwood F., Portland, Me. Vehicle-wheel. No. 1,351,252; Aug. 31; v. 277; p. 841.
Jordan, O. F., Company. (See Bressler, Robert E., assignor.)
Jordan, Orem, Freedom, Pa. Railway-switch. No. 1,332,297; Mar. 2; v. 272; p. 28.
Jordan, Robert M., Cooper, Tex. Piston-ring. No. 1,343,828; June 15; v. 275; p. 552.
Jordan, Wesley E., Erie, Pa. Top plate for stoves. No. 1,337,774; Apr. 20; v. 273; p. 527.
Jordan, William W., Delhi, La. Watch setting-lever. No. 1,327,391; Jan. 6; v. 270; p. 95.
Jordan, William W., Delhi, La. Combined center and cannon pinion. No. 1,327,392; Jan. 6; v. 270; p. 95.
Jordon, O. F., Company. (See Bressler, Robert E., assignor.)
Jorgensen, Charles, New Orleans, La. Salt and pepper shaker. No. 1,328,568; Jan. 20; v. 270; p. 415.
Jorgensen, Hans L., assignor to The Harrington and King Perforating Company, Chicago, Ill. Screen for centrifugal machines. No. 1,333,719; Mar. 16; v. 272; p. 405.
Jorgensen, Hans P., Beloit, Wis. Horseshoe-calk wrench. No. 1,350,504; Aug. 24; v. 277; p. 634.
Jorgensen, Henry J., Jersey City, N. J. Fountain-pen. No. 1,335,841; Mar. 30; v. 272; p. 816.
Jorgensen, Theodor O., Bethlehem, Pa. Sign. No. 1,357,457; Nov. 2; v. 280; p. 48.
Jorgenson, John, Wheelock, N. D. Detachable hose-coupling. No. 1,335,582; Mar. 30; v. 272; p. 861.
Jorgenson, John, Racine, Wis. Spark-plug. No. 1,353,693; Sept. 21; v. 278; p. 463.
Joseph, Frank A. (See Rice, J. M., Joseph, and Rupp.)
Joseph, Frank A., New Haven, Conn., assignor to L. Candee & Co. Rubber shoe. No. 1,336,962; Apr. 13; v. 278; p. 299.
Joseph, Horace, *et al.* (See Palmer, Victor C., assignor.)
Joseph, Irwin S., Rahway, N. J. Recovering crude oil. No. 1,362,105; Dec. 14; v. 281; p. 272.
Joseph, Orville E., Moose Jaw, Saskatchewan, Canada. Road recorder and indicator. No. 1,336,907; Apr. 13; v. 273; p. 289.
Josephs, Julius, assignor to the Crofut & Knapp Company, New York, N. Y. Cap. No. 1,352,968; Sept. 14; v. 278; p. 281.
Josephson, Alexander E., Baton Rouge, La. Trash-can. No. 1,363,122; Dec. 21; v. 281; p. 521.
Josephson, Harry, assignor of one-half to R. C. McNeil, Bridgeport, Conn. Coal-bag. No. 1,339,851; May 11; v. 274; p. 301.
Josephson, Henry, Cleveland, Ohio. Brake mechanism for automobiles. No. 1,339,895; May 11; v. 274; p. 309.
Josias, Nathan, Philadelphia, Pa. Combination saw-table and single-spindle shaper. No. 1,327,390; Jan. 6; v. 270; p. 95.
Josias, Nathan, Philadelphia, Pa. Combination saw-table and single-spindle shaper. No. 1,346,031; July 6; v. 276; p. 139.
Josler, Angelo, assignor of one-half to F. P. Smith, Chicago, Ill. Window-guard. No. 1,346,094; July 6; v. 276; p. 152.
Joslin, Arthur E., Pontiac, Mich. Tire-holding device. No. 1,362,250; Dec. 14; v. 281; p. 301.
Joslin, Charles T., assignor to The Russ Company, Cleveland, Ohio. Measuring-faucet. No. 1,342,173; June 1; v. 275; p. 110.
Joslin, Charles T., Feura Bush, N. Y. Cabinet for cigarettes. No. 1,354,307; Sept. 28; v. 278; p. 650.
Joslin, Frank M., assignor to Inman Manufacturing Company, Inc., Amsterdam, N. Y. Machine for making partitions for boxes. No. 1,353,344; Sept. 21; v. 278; p. 413.
Joslin, Frank M., assignor to Inman Manufacturing Company, Inc., Amsterdam, N. Y. Paper-box machine. No. 1,356,771; Oct. 26; v. 279; p. 596.
Joss, Fredrick E., Brooklyn, N. Y., assignor to Lektophone Corporation. Stylus-holder for talking-machines. No. 1,359,995; Nov. 23; v. 280; p. 698.
Jost, Harry A., Chicago, Ill. Reinforced ferrule for cues. No. 1,335,376; Mar. 30; v. 272; p. 823.
Jost, John F., Leavenworth, Kans. Sash-bower. No. 1,351,659; Aug. 31; v. 277; p. 922.
Joudry, Frederick, Prince Rupert, British Columbia, Canada. Box-tie. No. 1,354,656; Oct. 5; v. 279; p. 42.
Jouffret, Henri V. J., Paris, France. Internal-combustion engine. No. 1,336,298; Apr. 6; v. 273; p. 112.
Jouffret, Henri V. J., Paris, France. Internal-combustion engine. No. 1,349,459; Aug. 10; v. 277; p. 311.
Jouffret, Henri V. J., Neuilly-sur-Seine, France. Sleeve valve internal-combustion engine. No. 1,358,558; Nov. 9; v. 280; p. 326.
Jouffret, Henri V. J., Neuilly-sur-Seine, France. Internal-combustion engine. No. 1,363,123; Dec. 21; v. 281; p. 522.
Joule, Joseph, and C. A. Coups, assignors to Eastwood Wire Manufacturing Company, Belleville, N. J. Loom. No. 1,353,962; Sept. 28; v. 278; p. 580.
Joule, Joseph, and C. A. Coups, assignors to Eastwood Wire Manufacturing Company, Belleville, N. J. Loom. No. 1,353,963; Sept. 28; v. 278; p. 580.
Jourdan, Mason F., Muskogee, Okla. Camera-tripping device. No. 1,337,603; Apr. 20; v. 273; p. 494.
Joy, Henry B., Detroit, Mich., assignor, by mesne assignments, to The Isko Company, Chicago, Ill. Refrigerating apparatus. No. 1,342,964; June 8; v. 275; p. 318.
Joy, John M., Pepperhan Heights, N. Y. Printing-telegraph receiver No. 1,354,657; Oct. 5; v. 279; p. 42.
Joy, Robert W., Brooklyn, assignor to American Car and Foundry Company, New York, N. Y. Railway-car. No. 1,336,436; Apr. 13; v. 273; p. 198.
Joy Tooth Company. (See Fredericks, Enoch M., assignor.)
Joyce, Clarence M. (See Baskerville, C., and Joyce.)
Joyce-Cridland Company, The. (See Ripsch, C. W., and Dawley, assignors.)
Joyce-Cridland Company, The. (See Ripsch, C. W., Dawley, and Derby.)
Joyce, Michael J. (See Dence, Carl, assignor.)
Joyner, George O., and G. J. White, Little Rock, Ark. Circular-saw support. No. 1,327,713; Jan. 13; v. 270; p. 217.
Joyner, Miles D., Spartanburg, S. C. Crosshead. No. 1,362,422; Dec. 14; v. 281; p. 333.
Jubilee Manufacturing Company. (See Gillet, Alexis F., assignor.)
Judd, Earldley C. B., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Closet-seat hinge. No. 1,332,557; Mar. 2; v. 272; p. 78.
Judd, H. L., Company. (See Edsall and Lathrop, assignors.)
Judd, Henry S. (See Craver, Howard S., assignor.)
Judge, J. F. (See Coombs, Frank E., assignor.)
Judge, John, New York, N. Y. Incandescent lamp. No. 1,340,054; May 11; v. 274; p. 339.

Digitized by Google

Judkins, Herbert D., Detroit, Mich. Auxiliary air-inlet valve. No. 1,329,608; Feb. 3; v. 271; p. 49.
Juelson, Edwin, Chicago, Ill. Razor-stropping device. No. 1,346,212; July 13; v. 276; p. 236.
Juengst, Charles A., assignor to himself and Juengst & Sons, Croton Falls, N. Y. Book or pamphlet covering machine. No. 1,346,799; July 13; v. 276; p. 353.
Juengst, George, & Sons. (See Juengst, Charles A., assignor.)
Juhl, Peter C., New York, N. Y. Combination tractor and repeller. No. 1,337,841; Apr. 20; v. 273; p. 539.
Juhlke, Harry, Arvilla, N. D. Grain-cleaning sieve. No. 1,334,761; Mar. 23; v. 272; p. 647.
Julian, David, Columbus, Ohio, assignor to The E. J. Manville Machine Company, Waterbury, Conn. Machine for forming nut-blanks. No. 1,330,122; Feb. 10; v. 271; p. 177.
Julian, Gideon J., Beverly, Mass., assignor, by mesne assignments, to United-Xpedite Finishing Company, Berwick, Me. Shoe-finishing tool. No. 1,335,786; Apr. 6; v. 273; p. 16.
Julian, Henry S., and G. F. Hutchings, Kansas City, Mo. Apparatus for mixing road or other materials. No. 1,332,987; Mar. 9; v. 272; p. 207.
Julien, Cyprien E. P., Paris, France. Vehicle-wheel. No. 1,344,512; June 22; v. 275; p. 751.
Julien, Joseph C. (See Folger and Julien.)
Julinsen, Hans, Chicago, Ill. Centrifugal pump. No. 1,337,916; Apr. 20; v. 273; p. 554.
Julius King Optical Co. (See King, Frederick W., and W. G., assignors.)
Junek, Rudolph O., Esterhazy, Saskatchewan, Canada. Safety-hitch. No. 1,344,899; June 29; v. 275; p. 890.
Jung, Karl T. F., Kalmar, Sweden. Distance and speed indicator for ships. No. 1,354,832; Oct. 5; v. 279; p. 77.
Jungers, John, Grafton, Wis. Firepot for ranges. No. 1,337,604; Apr. 20; v. 273; p. 494.
Jungers, John, Grafton, Wis. Stove-trimming. No. 1,337,605; Apr. 20; v. 273; p. 495.
Junggren, Oscar, Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 1,349,886; Aug. 17; v. 277; p. 467.
Junggren, Oscar, Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 1,352,276; Sept. 7; v. 278; p. 108.
Junggren, Oscar, Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 1,352,277; Sept. 7; v. 278; p. 108.
Junggren, Oscar, Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 1,352,278; Sept. 7; v. 278; p. 108.
Junggren, Oscar, Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 1,362,323; Dec. 14. v. 281; p. 315.
Junghandel, Max, San Francisco, Calif. Composition of matter for use in making artificial stone. No. 1,363,879; Dec. 28; v. 281; p. 708.
Jungk, Herbert G., assignor to Westinghouse Electric & Manufacturing Company, Pittsburgh, Pa. Brush-holder. No. 1,362,007; Dec. 14; v. 281; p. 252.
Jungling, Michael, Washington, D. C. Resilient wheel. No. 1,344,513; June 22; v. 275; p. 751.
Jungner, Ernst W., Kneippbaden, Sweden. Manufacturing simultaneously hydraulic cement and alkali from alkaliferous mineral substances and lime. No. 1,338,021; Apr. 27; v. 273; p. 643.
Jungner, Ernst W., Kneippbaden, Sweden. Producing alkali carbonate and hydraulic cement from alkaliferous silicate minerals. No. 1,357,873; Nov. 2; v. 280; p. 128.
Juras, Eddie, Newburyport, Mass. Fishing device. No. 1,334,702; Mar. 23; v. 272; p. 635.
Juresisin, George, Wilkes-Barre, Pa. Air-drill. No. 1,338,137; Apr. 27; v. 273; p. 665.
Juresisin, George, Wilkes-Barre, Pa. Self-serving table. No. 1,344,900; June 29; v. 275; p. 891.
Jurevich, John, assignor of one-half to J. K. Boshka, New York, N. Y. Belt-shifter. No. 1,333,256; Mar. 9; v. 272; p. 256.
Juricich, Josip, Pittsburgh, Pa. Horse-currying device. No. 1,335,441; Mar. 30; v. 272; p. 835.
Juricich, Josip, Pittsburgh, Pa. Self-leveling basket for aeroplanes. No. 1,336,702; Apr. 13; v. 273; p. 249.
Jurist, Martin. (See Nelson, Emil A., assignor.)
Jury, Alfred E., Newark, N. J., assignor to The United States Tire Company. Fabric-testing machine. No. 1,327,393; Jan. 6; v. 270; p. 96.
Jury, Alfred E., Newark, N. J., assignor to Morgan & Wright. Friction and flexing apparatus for testing materials. No. 1,344,301; June 22; v. 275; p. 709.
Jury, Alfred E., Newark, N. J., assignor to Morgan & Wright. Thread-twisting machine. No. 1,350,812; Aug. 24; v. 277; p. 694.
Jury, Alfred E., Newark, N. J., assignor, by mesne assignments, to Morgan & Wright, Detroit, Mich. Treating fibrous material and products obtained thereby. No. 1,356,920; Oct. 26; v. 279; p. 625.
Jurzina, Joseph, assignor of one-half to J. Petrymasz, Chicago, Ill. Time-lock attachment for letter-boxes. No. 1,359,070; Nov. 16; v. 280; p. 471.
Just, Alvah L., Syracuse, N. Y. Dust-cap. No. 1,337,606; Apr. 20; v. 273; p. 495.
Just Sew Ready-Cut Garment Company. (See Greist, Hubert M., assignor.)
Justice, Homer H., and E. J. O'Brien, Pasadena, Calif. Cooling system for gas-engines. No. 1,347,043; July 20; v. 276; p. 460.
Justice, Ithamar M., assignor to The Manufacturers Equipment Company, Dayton, Ohio. Drier for clay or ceramic products. No. 1,360,645; Nov. 30; v. 280; p. 894.
Jutila, Arthur, Plainfield, N. J. Pen-tray. No. 1,330,470; Feb. 10; v. 271; p. 242.
Justin, Joel D., Badin, N. C. Automatic gate-operating means for dams. No. 1,344,048; June 22; v. 275; p. 659.
Justrite Manufacturing Company. (See Frisbie, William J., assignor.)
Justrite Manufacturing Company. (See Hansen, Augie L., assignor.)
Justus, Henry W., Napanoch, N. Y. Trap. No. 1,355,746; Oct. 12; v. 279; p. 307.
Juszczak, Frank, Hagewisch, Ill. Combination-bed. No. 1,346,896; July 20; v. 276; p. 430.
Juthe, John C., Allston, Mass. Child's car. No. 1,348,118; July 27; v. 276; p. 729.
Jutkins, Edgar M., La Junta, Colo. Sash construction. No. 1,349,887; Aug. 17; v. 277; p. 467.
Jyrkas, Oscar L., New York Mills, Minn. Horse-detacher and vehicle-lock. No. 1,338,188; Apr. 27; v. 273; p. 665.
K. F. & C. Tire & Rubber Corporation. (See Krusemark, F. A., Funkhouser, and Carpenter, assignors.)
Kaaten, Einar, assignor to A/S Arendal Smelteverk, Eydehavn, near Arendal, Norway. Electrode-holder. No. 1,339,111; May 4; v. 274; p. 87.
Kabaci, John, assignor of one-half to C. Hess, Wyano, Pa. Locking device for mail pouches or bags. No. 1,351,388; Aug. 31; v. 277; p. 869.
Kabushiki Kaisha Tsukamoto Denki Kenkyusho. (See Tsukamoto, Kizo, assignor.)
Kabushiki-Kwaisha Mamiyado. (See Mamiya, Katsusaburo, assignor.)
Kaczmarek, Edward J., Stevens Point, Wis. Device for extracting automobiles from mudholes or the like. No. 1,342,749; June 8; v. 275; p. 275.
Kaczmarek, Frank. (See Kaczmarek, Steve J. and F.)
Kaczmarek, Steve J. and F., Toledo, Ohio. Rail-joint. No. 1,363,822; Dec. 28; v. 281; p. 601.
Kaddatz, Emil, Ortonville, Minn. Nut-lock. No. 1,329,609; Feb. 3; v. 271; p. 50.
Kade, Charles F., assignor to C. F. Kade, Jr., Plymouth, Wis. Piano-bench. No. 1,339,262; May 4; v. 274; p. 113.
Kade, Charles F., Jr. (See Kade, Charles F., assignor.)
Kadel, Byers W., Roanoke, Va. Draft-rigging. No. 1,358,449; Nov. 9; v. 280; p. 304.
Kader, Carl, Hennef, assignor, by mesne assignments, to Obrima Automatische Waagenbau-Actiengesellschaft, Munich, Germany. Automatic weighing-machine. No. 1,350,611; Aug. 24; v. 277; p. 655.
Kadish Manufacturing Company, The. (See Kadish and Buscher, assignors.)
Kadish, Richard B., and T. W. Buscher, assignors to The Kadish Manufacturing Company, Chicago, Ill. Bleaching composition. No. 1,327,394; Jan. 6; v. 270; p. 96.
Kadow, August, assignor to The Westlake Machine Company, Toledo, Ohio. Blowpipe-operating mechanism for glass-forming apparatus. No. 1,331,772; Feb. 24; v. 271; p. 575.
Kadow, August, assignor to The Westlake Machine Company, Toledo, Ohio. Glass-gathering mechanism. No. 1,350,552; Aug. 24; v. 277; p. 643.
Kadow, Richard C., Newark, N. J., assignor to S. M. Riker, Chester, N. J. Belt-buckle. No. 1,341,648; June 1; v. 275; p. 7.
Kaempfer, Effie M. W., Laredo, Tex. Front sight for firearms. No. 1,357,094; Oct. 26; v. 279; p. 659.
Kaempfer, Effie M. W., Laredo, Tex. Rear sight for guns. No. 1,357,095; Oct. 26; v. 279; p. 659.
Kaempfer, Effie M. W., Laredo, Tex. Rear sight for guns. No. 1,357,096; Oct. 26; v. 279; p. 659.
Kaercher, Nathan A., Youngstown, Ohio. Automobile-lock. No. 1,361,264; Dec. 7; v. 281; p. 56.
Kaesen, Julius H., New York, N. Y. Automobile warning-signal. No. 1,329,772; Feb. 3; v. 271; p. 79.
Kaess, Louis L., Richmond Hill, N. Y. Model-airplane. No. 1,333,257; Mar. 9; v. 272 p. 257.
Kaestner, Adolph. (See Held, Siegfried, assignor.)
Kaestner, Louis W. (See Felsenthal, H., and Kaestner.)
Kaetker, Henry, Cincinnati, Ohio. Swing-saw. No. 1,332,558; Mar. 2; v. 272; p. 74.
Kafafian, Krikor. (See Esmarian, G., and Kafafian.)
Kahl, Arthur R., Withington, England. Telephone-transmitter. No. 1,334,541; Mar. 23; v. 272; p. 605.
Kahl, John M., Heaton, N. D. Automatic-release clevis construction. No. 1,327,480; Jan. 6; v. 270; p. 111.
Kahl, William, Brooklyn, N. Y. Supporting device. No. 1,333,258 Mar. 9; v. 272; p. 257.
Kahlenberg Bros. Co. (See Kahlenberg, William R., assignor.)

Digitized by Google

Kahlenberg, William R., assignor to Kahlenberg Bros. Co., Two Rivers, Wis. Fluid-filter. No. 1,335,899; Apr. 6; v. 273; p. 37.
Kahler, Venice A. H., Pasadena, Calif. Half-spray sprinkler. No. 1,339,349; May 4; v. 274; p. 129.
Kahn, Benjamin J., Elizabeth, N. J. Tobacco-leaf stretching and sizing machine. No. 1,348,497; Aug. 3; v. 277; p. 71.
Kahn, Edward C., Milwaukee, Wis. Burner. No. 1,354,567; Oct. 5; v. 279; p. 24.
Kahn, Edward C., Milwaukee, Wis. Spark-plug. No. 1,359,996; Nov. 23; v. 280; p. 698.
Kahn, Bertrand B., Cincinnati, assignor to The Estate Stove Company, Hamilton, Ohio. Heater. No. 1,337,708; Apr. 20; v. 273; p. 514.
Kahn, Herman, Chicago, Ill. Changeable sign. No. 1,349,769; Aug. 17; v. 277; p. 445.
Kahrs, Henry J. (See Tucker, Benjamin W., assignor.)
Kahrs, Otto, Christiania, Norway. Swing-derrick for ships and the like. No. 1,330,077; Feb. 10; v. 271; p. 168.
Kain, Harry, C. L. Miles, and G. A. Wilkinson, Wabash, Ind. Electric glue-heater. No. 1,351,478; Aug. 31; v. 277; p. 886.
Kainen, Joseph, Brooklyn, N. Y. Safety appliance for automobiles, &c. No. 1,341,325; May 25; v. 274; p. 709.
Kaiser, Alfred E., assignor to Specialty Manufacturing Company, Seattle, Wash. Photographic-printing machine. No. 1,350,256; Aug. 17; v. 277; p. 538.
Kaiser, Carlotta G. (See Kaiser, Joseph, assignor.)
Kaiser, Carola G. (See Kaiser, Frank H., assignor.)
Kaiser, Emanuel W. (See Hall, George F., assignor.)
Kaiser, Emanuel W., Newark, N. J. Automobile-bumper. No. 1,328,283; Jan. 20; v. 270; p. 361.
Kaiser, Frank H., assignor to C. G. Kaiser, Buffalo, N. Y. Fuse-plug. No. 1,357,169; Oct. 26; v. 279; p. 673.
Kaiser, Frank H., assignor to C. G. Kaiser, Buffalo, N. Y. Fuse-plug. No. 1,357,170; Oct. 26; v. 279; p. 673.
Kaiser, Isaac D., *et al.* (See Popcke, A. G., and Johnston, assignors.)
Kaiser, Jacob W., East Cleveland, Ohio. Liquid-dispensing device. No. 1,347,635; July 27; v. 276; p. 633.
Kaiser, Jacob W., East Cleveland, Ohio. Pressure-release valve. No. 1,355,230; Oct. 12; v. 279; p. 208.
Kaiser, Joseph, assignor to C. G. Kaiser, San Diego, Calif. Necktie. No. 1,347,782; July 27; v. 276; p. 663.
Kaiser, Leon L., Imlay, Nev. Saw-set. No. 1,334,905; Mar. 23; v. 272; p. 675.
Kaiser, Richard C., New Rochelle, assignor to Detmer Woolen Company, New York, N. Y. Display-easel for tailors and the like. No. 1,327,618; Jan. 13; v. 270; p. 199.
Kaiser, Robert. (See Jones, Augustus W., and Kaiser.)
Kaisha, Nihon, D. K. K. (See Yanai, Teizo, assignor.)
Kaisling, William, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Polarity-indicator. No. 1,333,422; Mar. 9; v. 272; p. 287.
Kaisling, William, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Relay. No. 1,334,037; Mar. 16; v. 272; p. 465.
Kaisling, William, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Combined electromagnetically and manually operable organ-stop. No. 1,353,594; Sept. 21; v. 278; p. 468.
Kaisling, William, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Calling device. No. 1,360,113; Nov. 23; v. 280; p. 721.
Kaisling, William, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Ignition and lighting switch for automobiles. No. 1,360,411; Nov. 30; v. 280; p. 847.
Kaisling, William, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Ignition-timer. No. 1,363,512; Dec. 28; v. 281; p. 637.
Kako, Shintaro, Los Angeles, Calif. Electric steam-iron. No. 1,347,224; July 20; v. 276; p. 494.
Kalamen, John, Perth Amboy, N. J. Runabout rattling toy. No. 1,361,386; Dec. 7; v. 281; p. 81.
Kalamazoo Loose Leaf Binder Co. (See Dixon, Samuel S., assignor.)
Kalamazoo Loose Leaf Binder Co. (See Wigginton, George P., assignor.)
Kalamazoo Tank Silo Company. (See Youmans, George P., assignor.)
Kalata, Frank, Springfield, Ill. Car-coupling. No. 1,352,516; Sept. 14; v. 278; p. 190.
Kalberer, Gustav, Knoxville, Pa. Tool-holder. No. 1,344,537; June 22; v. 275; p. 756.
Kalbfus, Oliver A., Baltimore, Md. Aeroplane. No. 1,340,960; May 25; v. 274; p. 638.
Kalbfus, Oliver A., Baltimore, Md. Vacuum-cleaning machine. No. 1,349,964; Aug. 17; v. 277; p. 482.
Kaldenberg, Marines T., Vinton, Iowa. Shoe-form. No. 1,332,499; Mar. 2; v. 272; p. 63.
Kaler, Henry, Rantoul, Ill. Grain-door. No. 1,357,326; Nov. 2; v. 280; p. 25.
Kales Stamping Company. (See Zink, Fred W., assignor.)
Kaley, Charles L., Chicago, Ill. Display-stand. No. 1,361,334; Dec. 7; v. 281; p. 71.
Kali Company of America. (See Blackmore, Henry S., assignor.)
Kalicki, Walenty, Grafton, Ohio. Plow construction. No. 1,342,386; June 1; v. 275; p. 150.
Kalivoda, John, Cuba, Kans. Scraper. No. 1,348,119; July 27; v. 276; p. 730.
Kalix, John, White Plains, N. Y. Carrier. No. 1,352,969; Sept. 14; v. 278; p. 281.
Kalkbrenner, George, Marion, Ohio. Identification device. No. 1,338,181; Apr. 27; v. 273; p. 673.
Kallenbach, Oscar G. H., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Protector for vision-apertures of marine vessels. No. 1,335,059; Mar. 30; v. 272; p. 763.
Kalling, Bo M. S., and S. D. Danieli, Trollhattan, Sweden, assignors to Aktiebolaget Ferrolegeringar, Stockholm, Sweden. Method for producing manganese or alloys of manganese. No. 1,363,657; Dec. 28; v. 281; p. 665.
Kallom, F. W., Malden, and P. S. Toennesen, Everett, Mass. Sanding device. No. 1,351,760; Sept. 7; v. 278; p. 9.
Kalman, Paul J., Company. (See White, William E., assignor.)
Kalmus Comstock & Wescott. (See Comstock, Daniel F., assignor.) (Reissue.)
Kalmus Comstock & Westcott. (See Wall, Edward J., assignor.)
Kalmus, Comstock & Wescott. (See Wescott, William B., assignor.)
Kalteis, Frank, Milwaukee, Wis. Soil-pulverizer. No. 1,333,492; Mar. 9; v. 272; p. 301.
Kaltenbach, Gordon, Birmingham, England. Combined button and fastener. No. 1,334,656; Mar. 23; v. 272; p. 626.
Kaltenbach, Robert W., assignor to The McMyler Interstate Company, Cleveland, Ohio. Box-car unloader. No. 1,352,608; Sept. 14; v. 278; p. 208.
Kalton, Martin A., Minneapolis, Minn. Door-spring. No. 1,354,196; Sept. 28; v. 278; p. 628.
Kaltz, William J., Windsor, Ontario, Canada, assignor to Kelsey Wheel Company, Detroit, Mich. Assembling spoked wheels. (Reissue.) No. 14,803; Feb. 10; v. 271; p. 298.
Kamelgar, Solomon, assignor of one-half to Tobias Greenberg, Paterson, N. J. Stop-motion for looms. No. 1,358,214; Nov. 9; v. 280; p. 256.
Kamienski, Edward, Chrome, N. J. Rail-tie. No. 1,357,570; Nov. 2; v. 280; p. 69.
Kaminski, Albert, assignor of one-half to A. A. Gmys, Pittsburgh, Pa. Parachute. No. 1,344,044; June 22; v. 275; p. 659.
Kaminski, Andzei, Uniontown, Pa. Aviator's helmet. No. 1,349,950; Aug. 10; v. 277; p. 211.
Kamm, Oliver, Urbana, and E. H. Vollweiler, assignors to The Abbott Laboratories, Chicago, Ill. Di (normal) butyl barbituric acid. No. 1,331,712; Feb. 24; v. 271; p. 563.
Kamm, Oliver, R. Adams, Urbana, and E. H. Volwiler, assignors to The Abbott Laboratories, Chicago, Ill. Anesthetic compound. No. 1,358,750; Nov. 16; v. 280; p. 409.
Kamm, Oliver, R. Adams, Urbana, and E. H. Volwiler, assignors to The Abbott Laboratories, Chicago, Ill. Anesthetic compound. No. 1,358,751. Nov. 16; v. 280; p. 409.
Kammerer, Firm of Fr. (See Trunk, Rudolf, assignor.)
Kammerich, Andrew, Syracuse, Mo., assignor to Kammerich Manufacturing Company. Armored fixture. No. 1,338,372; Apr. 27; v. 273; p. 710.
Kammerich Manufacturing Company. (See Kammerich, Andrew, assignor.)
Kammermann, Arthur, London, England. Apparatus for washing crockery, cutlery, and the like. No. 1,355,341; Oct. 12; v. 279; p. 230.
Kammeyer, Charles T., Niagara Falls, N. Y. Type-gage. No. 1,354,977; Oct. 5; v. 279; p. 105.
Kammitter, Frank, New York, N. Y. Automobile-bumper. No. 1,342,290; June 1; v. 275; p. 133.
Kampe, John E., Waltham, Mass. Bit socket or chuck. No. 1,361,335; Dec. 7; v. 281; p. 71.
Kampes, Louise R., Atlantic City, N. J. Doll-head. No. 1,357,779; Nov. 2; v. 280; p. 110.
Kampfe, Otto., Bellmore, N. Y., assignor of one-half to H. C. Walker, Boston, Mass. Tool. No. 1,334,100; Mar. 16; v. 272; p. 476.
Kamuf, Peter J. (See Tiernon, L. B., and Kamuf.)
Kanawha Manufacturing Company. (See Davis, Madison T., Jr., assignor.)
Kandlbinder, Emelia F., Springfield, Ill. Die. No. 1,344,637; June 29; v. 275; p. 840.
Kandlbinder, Emelia F., Springfield, Ill. Combined cover and closure-remover for bottles. No. 1,349,511; Aug. 10; v. 277; p. 321.
Kane, Edmund J. (See Johnston E. H., and Kane.)
Kane, Edmund J., Chicago, Ill., assignor to Webster Electric Company, Racine, Wis. Electric igniter. No. 1,333,548; Mar. 9; v. 272; p. 312.
Kane, John C., Detroit, Mich. Telephone-receiver. No. 1,362,008; Dec. 14; v. 281; p. 253.
Kane, John L., Philadelphia, Pa. Production of azo dyes. No. 1,333,807; Mar. 16; v. 272; p. 421.
Kane, John L, Philadelphia, Pa. Producing dyes of the magenta type. No. 1,355,048; Oct. 5; v. 279; p. 119.

Digitized by Google

Kane, Peter C., Youngstown, Ohio. Anti-skidding device. No. 1,356,288; Oct. 19; v. 279; p. 455.
Kane, Thomas H., Youngstown, Ohio. Clamp. No. 1,332,442; Mar. 2; v. 272; p. 51.
Kane, Thomas M., Baltimore, Md. Safety-razor. No. 1,354,658; Oct. 5; v. 279; p. 43.
Kane, Walter, Sarnia, Ontario, Canada. Car-door fastener. No. 1,361,868; Dec. 14; v. 281; p. 224.
Kane, William, Philadelphia, Pa. Automatic gas-regulator. No. 1,361,336; Dec. 7; v. 281; p. 71.
Kanegafuchi Boseki Kabushiki Kwaisha. (See Kido, Suekichi, assignor.)
Kaney, Alonzo W., assignor of one-third to E. L. Janney, Chicago, Ill. Pneumatic shovel. No. 1,351,425; Aug. 31; v. 277; p. 876.
Kangas Pappersbruks Aktiebolag. (See Suursalmi, Onni, assignor.)
Kangasniemi, Ferdinand, White Plains, N. Y. Toy. No. 1,355,674; Oct. 12; v. 279; p. 293.
Kanik, Rudolph M., Clintonville, Wis. Steering mechanism. No. 1,357,327; Nov. 2; v. 280; p. 25.
Kansas City Automatic Hay Press Company. (See Evans, J. R., and Brandt, assignors.)
Kansas City Gasoline Company, The. (See Jones, Harry W., assignor.)
Kansas City Gasoline Company, The. (See Wellman, Frank E., assignor.)
Kansas City Gasoline Company, The. (See Wellman, F. E., and Sibley, assignors.)
Kansas City Refining Company, The. (See Lasher, Henry M., assignor.)
Kansas City Structural Steel Company, The. (See Meyers, Alfred M., assignor.)
Kanta, Joseph, and V. G. Huml, assignors to Ajax Quilting and Manufacturing Company, Chicago, Ill. Quilting-machine. No. 1,329,411; Feb. 3; v. 271; p. 12.
Kanter, Marcus E., assignor to The Cleveland Hardware Company, Cleveland, Ohio. Ferrule. No. 1,354,659; Oct. 5; v. 279; p. 43.
Kanthack, Paul, Onaway, Mich. Bait-box. No. 1,354,660; Oct. 5; v. 279; p. 43.
Kantor, Paul, Sonman, Pa. Rail-joint. No. 1,356,629; Oct. 26; v. 279; p. 568.
Kanzaki, Matsunosuke, Salt Lake City, Utah. Beet-harvester. No. 1,328,231; Jan. 18; v. 270; p. 815.
Kapfer, Joseph, Cincinnati, Ohio. Toy vehicle. No. 1,330,269; Feb. 10; v. 271; p. 204.
Kapferer, Henri, Paris, assignor to Astra Societe Anonyme, Billancourt, France. Airship of the Torrés type. No. 1,360,646; Nov. 30; v. 280; p. 894.
Kaplan, Harry. (See Davis, R. L., and Kaplan.)
Kaplan, Henry, San Francisco, Calif. Switch face-plate and lock. No. 1,337,137; Apr. 13; v. 273; p. 332.
Kaplan, Ladislav. (See Muller, Otto J., assignor.)
Kaplan, Nathan, Covington, Ga. Bed-slat. No. 1,328,878; Jan. 27; v. 270; p. 502.
Kaplan, Nathan, Covington, Ga. Shirt. No. 1,337,917; Apr. 20; v. 273; p. 554.
Kappeler, Jean, Melligen, Switzerland. Braiding-machine. No. 1,330,323; Feb. 10; v. 271; p. 214.
Kaps, Richard A., assignor to The Cincinnati Ball Crank Company, Cincinnati, Ohio. Steering reach-rod. No. 1,337,138; Apr. 13; v. 273; p. 332.
Karamanos, Demetrios, Donora, Pa. Operating mechanism for egg-beaters. No. 1,362,164; Dec. 14; v. 281; p. 283.
Karas, Louis, New York, N. Y. Toothbrush. No. 1,335,689; Mar. 30; v. 272; p. 881.
Karasevicz, Jouzas, South Amboy, N. J. Lock. No. 1,336,080; Apr. 6; v. 273; p. 71.
Karasevicz, Jouzas, South Amboy, N. J. Baby-coach awning. No. 1,337,360; Apr. 20; v. 273; p. 448.
Karchitz, Frank, Bridgeport, Conn. Toy swing-chair and sulky. No. 1,343,000; June 8; v. 275; p. 325.
Karck, George S., and S. H. Varndell, London, England. Coin-freed delivery apparatus. No. 1,330,540; Feb. 10; v. 271; p. 255.
Karg, Ernest, assignor of one-half to R. G. Richard, New York, N. Y. Toy. No. 1,359,809; Nov. 23; v. 280; p. 661.
Karg, Frank J. (See Herman, L., and Karg.)
Karl, Andrew J., and B. F. Webb, Sistersville, W. Va. Transmission-gearing. No. 1,345,494; July 6; v. 276; p. 33.
Karl, Beatrice N., and C. B. Curtis, Milwaukee, Wis. Illuminated-signal indicator. No. 1,362,324; Dec. 14; v. 281; p. 315.
Karl, Ernest, Litchfield, Conn. Adjustable chase and lockup for printing, cutting, and creasing presses. No. 1,353,758; Sept. 21; v. 278; p. 496.
Karl, George E. (See Woodin, C. K., Karl, and Kolcsynski.)
Karl, Heinrich, New York, N. Y. Electric switch controlled by railway rolling-stock. No. 1,329,773; Feb. 3; v. 271; p. 80.
Karl, Julius E., Peoria, Ill. Vehicle-top. No. 1,356,921; Oct. 26; v. 279; p. 625.
Karle, John D., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Oil-can. No. 1,339,765; May 11; v. 274; p. 284.
Karle, John D., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Guard for power-table driving mechanisms. No. 1,339,766; May 11; v. 274; p. 285.
Karles, Michael D., Delray, Mich. Pneumatic tool. No. 1,345,495; July 6; v. 276; p. 33.
Karlsson, Georg. (See Wiberg, O. A., and Karlsson.)
Karlsson, Karl W., East Boston, Mass. Feeding attachment for bitstocks. No. 1,339,958; May 11; v. 274; p. 321.
Karmen, Bernard H., New York, N. Y. Powder-puff. No. 1,357,990; Nov. 9; v. 280; p. 212.
Karn, Edwin B., Parma, Idaho. Plow. No. 1,358,158; Nov. 9; v. 280; p. 245.
Karnes, Walter C., Joplin, Mo. Timer. No. 1,347,636; July 27; v. 276; p. 633.
Karnes, William E., Arlington, N. J. Brake for aeroplanes. No. 1,356,289; Oct. 19; v. 279; p. 455.
Karpinski, Roman, Export, Pa. Beehive. No. 1,336,523; Apr. 13; v. 273; p. 214.
Karr, Burton A., Los Angeles, Calif. Pneumatic tire. No. 1,339,516; May 11; v. 274; p. 287.
Karr, Francis, Holland, Mich. Spring-mattress. No. 1,337,320; Apr. 20; v. 273; p. 441.
Karr, John C., Chicago, Ill. Road-drag. No. 1,347,336; July 20; v. 276; p. 517.
Karr, Moses M., Fair Oaks, Ind. Fluid-pressure generator. No. 1,334,614; Mar. 23; v. 272; p. 619.
Karper, Bernard V. (See Matz, Charles F., and M. G., and Kerper.)
Karpp, Charles, New York, N. Y. Type and type-bar. No. 1,359,604; Nov. 23; v. 280; p. 620.
Karro, Gustave J., New York, N. Y. Alarm. No. 1,332,180; Feb. 24; v. 271; p. 651.
Karro, Gustave J., New York, N. Y. Window-screen. No. 1,335,583; Mar. 30; v. 272; p. 861.
Karro, William W., Great Neck, N. Y. Cane. No. 1,347,382; July 20; v. 276; p. 526.
Karro, William W., Great Neck, N. Y. Vacuum-cleaner for shoes. No. 1,361,068; Dec. 7; v. 281; p. 17.
Karro, William W., Great Neck, N. Y. Mat. No. 1,361,069; Dec. 7; v. 281; p. 18.
Karschitz, Frank, Bridgeport, Conn. Combination-chair. No. 1,353,595; Sept. 21; v. 278; p. 463.
Karschitz, Frank, Bridgeport, Conn. Toy chair. No. 1,362,489; Dec. 14; v. 281; p. 346.
Karst, George, assignor to Taylor Instruments Companies, Rochester, N. Y. Valve mechanism. No. 1,351,426; Aug. 31; v. 277; p. 876.
Kasack, Frederick W., Jr., assignor to Winchester Repeating Arms Co., New Haven, Conn. Hand-package for clay pigeons. No. 1,356,069; Oct. 19; v. 279; p. 411.
Kasbaum, Landon C., Laporte, Ind. Street-indicator for cars. No. 1,347,545; July 27; v. 276; p. 615.
Kasbohm, William F., Van Wert, Ohio. Window-shade and curtain-pole bracket. No. 1,341,562; May 25; v. 274; p. 755.
Kasbohm, William F., Van Wert, Ohio. Sectional casing for furnaces. No. 1,350,257; Aug. 17; v. 277; p. 538.
Kasematis, George N., and B. A. Stamatelopoulos, New York, N. Y. Aeroplane. No. 1,349,460; Aug. 10; v. 277; p. 311.
Kashitani, Saburo, Imamiya, Machi, Japan. Treating cotton and cotton manufactures. No. 1,360,224; Nov. 23; v. 280; p. 742.
Kaskouras, Thomas, St. Paul, Minn. Butter container and cutter. No. 1,348,805; Aug. 3; v. 277; p. 129.
Kasley, Alexander T., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Turbine. No. 1,328,835; Jan. 27; v. 270; p. 493.
Kasley, Alexander T., Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Co. Mounting for turbine-buckets. No. 1,345,678; July 6; v. 276; p. 69.
Kaspar, John, and R. F. Bernan, Moulton, Tex. Water-level. No. 1,349,613; Aug. 17; v. 277; p. 414.
Kasper, Christian J., Rochester, N. Y. Sash-lock. No. 1,326,937; Jan. 6; v. 270; p. 11.
Kasper, Stanley, Buxton, Iowa. Convertible ladder and bench. No. 1,337,361; Apr. 20; v. 273; p. 449.
Kasper, Walter F., assignor to Fairmont Gas Engine & Railway Motor Car Co., Fairmont, Minn. Cutter-bar control for weed-mowers. No. 1,328,836; Jan. 27; v. 270; p. 493.
Kasper, Walter F., assignor to Fairmont Gas Engine & Railway Motor Car Co., Fairmont, Minn. Weed-cutter. No. 1,337,655; Apr. 20; v. 273; p. 504.
Kasper, Walter F., assignor to Fairmont Gas Engine & Railway Motor Car Co., Fairmont, Minn. Gas-engine bearing. No. 1,337,656; Apr. 20; v. 273; p. 504.
Kass, Samuel M., Philadelphia, Pa. Floating heater. No. 1,328,630; Jan. 20; v. 270; p. 426.
Kasson, Charles L., Mattapan, Mass. Automatic timing device. No. 1,332,844; Mar. 2; v. 272; p. 128.
Kast, Edward R., Pearl River, assignor to Kast Inserting and Gathering Machine Company, New York, N. Y. Book-trimmer. No. 1,327,915; Jan. 13; v. 270; p. 255.
Kast Inserting and Gathering Machine Company. (See Kast, Edward R., assignor.)
Kastengren, Gustavus E., assignor to Concrete Craft Corporation, Seattle, Wash. Reinforced-concrete-ship mold. No. 1,345,013; June 29; v. 275; p. 912.
Kastenholz, Charles C., *et al.* (See Kugler, James R., and E. W., assignors.)

Digitized by Google

Kästner, Alfred, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft Essen-on-the-Ruhr, Germany. Foundation for guns with wheeled gun-carriages. No. 1,359,997; Nov. 23; v. 280; p. 698.
Kastohryz, Joseph, *et al.* (See Doman, Herman C., assignor.)
Kathe, John, Quincy, Ill. Gas-engine governor. No. 1,351,660; Aug. 31; v. 277; p. 922.
Katulka, John, Nanticoke, Pa. Mine-drill. No. 1,361,734; Dec. 7; v. 281; p. 151.
Katz, Joseph M., Brooklyn, N. Y. Bag or suitcase. No. 1,339,653; May 11; v. 274; p. 263.
Katzberg, William M., Hastings, Nebr. Door-latch. No. 1,327,916; Jan. 13; v. 270; p. 255.
Katzmarek, Michael, Duluth, Minn. Snap-fastener. No. 1,350,314; Aug. 24, v. 277; p. 596.
Katzmarek, Michael, Duluth, Minn. Wrench. No. 1,350,315; Aug. 24; v. 277; p. 596.
Katsung, George W., Pittsfield, Mass., assignor to General Electric Company. Connector. No. 1,331,928; Feb. 24; v. 271; p. 604.
Kaufman, Roscoe W., *et al.* (See Seymour, John K., assignor.)
Kaufman, Adolph G., New York, N. Y. Vaporizer for hydrocarbon-lights. No. 1,327,161; Jan. 6; v. 270; p. 53.
Kaufman, Adolph G., New York, N. Y. Shade-holder support for lamps. No. 1,338,635; Apr. 27; v. 273; p. 758.
Kaufman, Adolph G., New York, N. Y. Hydrocarbon-light. No. 1,338,636; Apr. 27; v. 273; p. 758.
Kaufman, Adolph G., New York, N. Y. Vaporizer and holder. No. 1,342,446; June 8; v. 275; p. 216.
Kaufman, Adolph G., New York, N. Y. Vaporizer-strainer for lamps. No. 1,342,849; June 8; v. 275; p. 296.
Kaufman, Adolph G., New York, N. Y. Vaporizer-guide. No. 1,345,448; July 6; v. 276; p. 24.
Kaufman, Alfonse, New York, N. Y., assignor, by mesne assignments, to Air Reduction Company, Incorporated. Making sodium cyanid. No. 1,339,706; May 11; v. 274; p. 274.
Kaufman, Alfred, New York, N. Y. Hydrocarbon-burner. No. 1,341,910; June 1; v. 275; p. 58.
Kaufman, David V., New York, N. Y. Airplane. No. 1,335,690; Mar. 30; v. 272; p. 881.
Kaufman, Harry, and S. Sciens, Hammond, Ind. Radiator. No. 1,355,835; Oct. 19; v. 279; p. 365.
Kaufman, Herman. (See Snider, M., and Kaufman.)
Kaufman, Irvin H., New York, N. Y., assignor to The Blackburn-Smith Corporation. Electric switch. No. 1,331,929; Feb. 24; v. 271; p. 605.
Kaufman, Isaac M., Brooklyn, N. Y. Mop-head. No. 1,339,398; May 11; v. 274; p. 214.
Kaufman, Jean F., New York, N. Y. Color-indicating chart. No. 1,351,661; Aug. 31; v. 277; p. 922.
Kaufman, John, Prairie du Sac, Wis. Spring-hinge. No. 1,344,538; June 22; v. 275; p. 756.
Kaufman, Michael M., and J. P. Lynn, Chicago, Ill., assignors to P. P. Thomas, trustee, Minneapolis, Minn. Mechanical pencil. No. 1,353,345; Sept. 21; v. 278; p. 413.
Kaufman, Samuel E., Beaver Dam, Wis. Portable adjusting-table for use of chiropractors. No. 1,338,735; May 4; v. 274; p. 16.
Kaufman, Theodore L., Carbondale, Ill. Automatic valve for funnels. No. 1,341,563; May 25; v. 274; p. 755.
Kaufmann, Frank J., Tribes Hill, N. Y., assignor to Fownes Brothers & Co., London, England. Powder-distributer. No. 1,338,079; Mar. 9; v. 272; p. 224.
Kaufmann, Frederick J., assignor of one-tenth to C. Ritchie, Charleston, W. Va. Making fatty-acid halids and phosphorus oxyhalids. No. 1,359,071; Nov. 16; v. 280; p. 471.
Kaufmann, Herbert E., West Brighton, N. Y. Hot-water bottle. No. 1,334,378; Mar. 23; v. 272; p. 574.
Kaufmann, Jacob, assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa. Heddle-frame. No. 1,359,251; Nov. 16; v. 280; p. 505.
Kaufmann, Jacob, assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa. Heddle-frame. No. 1,359,252; Nov. 16; v. 280; p. 505.
Kaufmann, Jacob, assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa. Heddle-frame. No. 1,359,253; Nov. 16; v. 280; p. 505.
Kaufmann, John W., Baltimore, Md. Reproducer for talking-machines. No. 1,347,813; July 27; v. 276; p. 668.
Kaufmann, John W., Baltimore, Md. Reproducer for talking-machine. No. 1,354,197; Sept. 28; v. 278; p. 628.
Kaufmann, Michael M., and J. P. Lynn, Chicago, Ill. Game device. No. 1,360,299; Nov. 30; v. 280; p. 826.
Kaukauna Machine Works. (See Mayer, Louis, assignor.)
Kauneckas, Antanas, Waterbury, Conn. Safety-razor-blade-stropping handle. No. 1,355,762; Oct. 12; v. 279; p. 310.
Kaunitz, Ernest L., Bay City, Mich. Power-hacksaw. No. 1,362,628; Dec. 21; v. 281; p. 425.
Kaupke, Lee H., assignor to Rock Island Plow Company, Rock Island, Ill. Clutch mechanism. No. 1,338,139; Apr. 27; v. 273; p. 666.
Kaupke, Lee H., assignor to Rock Island Plow Company, Rock Island, Ill. Hay-loader. No. 1,356,722; Oct. 26; v. 279; p. 586
Kaupke, Lee H., assignor to Rock Island Plow Company, Rock Island, Ill. Quick-detachable plowshare. No. 1,356,723; Oct. 26; v. 279; p. 587.
Kavanagh, Arch. (See Hawn, William L., assignor.)
Kavanagh, Dudley J., Bay City, Mich. Paper-filing device. No. 1,330,875; Feb. 17; v. 271; p. 388.
Kavanagh, Leo M., Baltimore, Md. Gasolene-dispensing apparatus. No. 1,344,949; June 29; v. 275; p. 900.
Kaveney, Paul J., Bloomington, Ill. Angle-cock and actuating means therefor. No. 1,349,208; Aug. 10; v. 277; p. 261.
Kavle, Oscar C., Syracuse, N. Y. Spindle-holder. No. 1,361,160; Dec. 7; v. 281; p. 35.
Kawai, Fudesuke, Kobe, Japan. Cotton belt. No. 1,329,713; Feb. 3; v. 271; p. 68.
Kawakita, Yoshinao, Hongo-Ku, Tokyo, Japan. System of electrically indicating on board ship the depth of seawater. No. 1,335,738; Apr. 6; v. 273; p. 7.
Kawashima, Haruo, North Platte, Nebr. Track lifter and liner. No. 1,329,185; Jan. 27; v. 270; p. 560.
Kawate, Hiyozo, Seattle, Wash. Internal-combustion rotary engine. No. 1,358,450; Nov. 9; v. 280; p. 304.
Kawinski, Peter, Perth Amboy, N. J. Device for raising sunken ships. No. 1,331,014; Feb. 17; v. 271; p. 413.
Kawneer Manufacturing Company. (See Macleod, Hector, assignor.)
Kawneer Manufacturing Company. (See Plym, F. J., and Barclay, assignors.)
Kawneer Manufacturing Company. (See Plym, Francis J., assignor.)
Kay, Arethusa, *et al.* (See Kay, Samuel P., assignor.)
Kay, Charles, Detroit, Mich. Oiling-cup. No. 1,356,452; Oct. 19; v. 279; p. 486.
Kay, Emily G., St. Paul, Minn. Lifting-tongs. No. 1,360,114; Nov. 23; v. 280; p. 721.
Kay, Maro P., Cle Elum, Wash. Folding bed for automobiles. No. 1,333,924; Mar. 16; v. 272; p. 443.
Kay, Samuel P., Rochester, assignor of one-half to A. K. Rownd and one-half to A. Kay, Rochester, N. Y. Pencil-holder. No. 1,338,933; May 4; v. 274; p. 52.
Kay, Samuel P., assignor of one-third to R. P. Wolf, one-third to A. K. Rownd, and one-third to A. Kay, Rochester, N. Y. Tool for setting the teeth of circular saws. No. 1,349,614; Aug. 17; v. 277; p. 415.
Kay, Samuel P., Rochester, N. Y. Heated steering-wheel. No. 1,358,451; Nov. 9; v. 280; p. 305.
Kay, William E., Elyria, Ohio. Protected pneumatic heel. No. 1,342,291; June 1; v. 275; p. 133.
Kaye, John A., Sault Ste. Marie, Ontario, Canada. Swimming device. No. 1,329,660; Feb. 3; v. 271; p. 59.
Kaye, John A., Sault Ste. Marie, Ontario, Canada. Bottle-cap. No. 1,341,177; May 25; v. 274; p. 681.
Kaye, Samuel, Columbus, Miss. Filling-head for bottling-machines. No. 1,331,015; Feb. 17; v. 271; p. 414.
Kaylor, Jacob F., Pekin, Ill. Water-carrying attachment for razors. No. 1,335,840; Apr. 6; v. 273; p. 25.
Kaylor, William, assignor of one-half to J. L. Kimmel, Muskogee, Okla. One-piece ratchet-wrench. No. 1,341,178; May 25; v. 274; p. 681.
Kaynee Company, The. (See Hays, Louis H., assignor.)
Kaynee Company, The. (See Isaacs, H. G., and Hays, assignors.)
Kaynee Company, The. (See Oathout, Charles E., assignor.)
Kays, Charles A. (See Wilhem, J., and Kays.)
Kayser, Julius, & Co. (See Webb, George S., Jr., assignor.)
Kazenmaier, August, Stuttgart, Germany, assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Automatic electric regulating device. No. 1,331,815; Feb. 24; v. 271; p. 588.
Kazenmaier, August, Stuttgart, Germany, assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Electric regulator. No. 1,333,662; Mar. 16; v. 272; p. 394.
Kazenmaier, August, Stuttgart, Germany, assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Electric starting system for internal-combustion engines. No. 1,335,507; Mar. 30; v. 272; p. 847.
Kazienko, Julian, Roseбank, N. Y. Automobile turn-indicating device. No. 1,353,964; Sept. 28; v. 278; p. 580.
Kazmann, Boris. (See Kellogg, J. L., and Kazmann.)
K'Burg, Eli W., Toledo, Ohio. Grease-cup. No. 1,348,362; Aug. 3; v. 277; p. 46.
Keables, Albert E., San Francisco, Calif. Combination concentrator and classifier. No. 1,336,963; Apr. 13; v. 273; p. 299.
Kealey, John A. (See Temple, W. S., and Kealey.)
Kealy, Michael P., Jersey City, N. J. Paving-block. No. 1,334,101; Mar. 16; v. 272; p. 476.
Kean, Ida, administratrix. (See Kean, Joseph.)
Kean, Joseph, deceased, Des Moines, Iowa; I. Kean, administratrix. Air-pump. No. 1,328,232; Jan. 13; v. 270; p. 215.
Kearney, Harry K., Lincoln, N. H. Log-hauling apparatus. No. 1,330,123; Feb. 10; v. 271; p. 177.
Kearney, Philip. (See Temple, Harry M., and Kearney.)
Kearney, William F. (See Peden, Hugh L., assignor.)

Digitized by Google

Kearsley, William K., Jr., assignor to General Electric Company, Schenectady, N. Y. Method of and apparatus for automatically removing gases. No. 1,357,710; Nov. 2; v. 280; p. 96.
Keating, Edward. (See Fitzgerald, John W., assignor.)
Keating, Robert M., Springfield, Mass. Lunch-chair. No. 1,344,901; June 29; v. 275; p. 891.
Keaton, Robert H., San Francisco, Calif. Gun. No. 1,335,342; Mar. 30; v. 272; p. 817.
Keator, Edward O., Cincinnati, Ohio. Combined wire stretching and splicing and drilling machine. No. 1,332,988; Mar. 9; v. 272; p. 207.
Kebler, Leonard, Bronxville, N. Y., assignor to Ward Leonard Electric Co. Controlling means for electric motors. No. 1,328,631; Jan. 20; v. 270; p. 427.
Kebler, Leonard, Bronxville, N. Y., assignor to Ward Leonard Electric Co. Resistance device. No. 1,347,102; July 20; v. 276; p. 471.
Kebler, Leonard, Bronxville, N. Y., assignor to Ward Leonard Electric Company. Enameling resistance units. No. 1,361,869; Dec. 14; v. 281; p. 225.
Keck, C. M., *et al.*, executors. (See Brinton, William F.)
Keck, Robert, assignor to The Double-Drive Truck Company, Chicago, Ill. Transmission mechanism. No. 1,362,490; Dec. 14; v. 281; p. 347.
Keckeissen, William T., Newark, N. J. Combined spool and needle holder. No. 1,357,874; Nov. 2; v. 280; p. 128.
Keckler, Charles W., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,333,758; Mar. 16; v. 272; p. 412.
Keckler, Charles W., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,335,789; Apr. 6; v. 273; p. 7.
Keckler, Charles W., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,352,970; Sept. 14; v. 278; p. 281.
Kee, John P. (See Wilkin and Kee.)
Keebler, Elmer, assignor to The Mechanical Manufacturing Company, Chicago, Ill. Bumping-post for freight-cars. No. 1,348,223; Aug. 3; v. 277; p. 18.
Keegan, Francis W., et al. (See Pokorny, Frank, Jr., assignor.)
Keegan, Frank J., Coventry, assignor to The Dunlop Rubber Company, Limited, Westminster, London, England. Means for securing wheel-disks to hubs. No. 1,329,527; Feb. 3; v. 271; p. 35.
Keel, Eugène, Lucerne, Switzerland. Machine for the production of hollow building-stones. No. 1,359,899; Nov. 23; v. 280; p. 678.
Keel, William H., Grant, Ala. Wire clamp and stretcher. No. 1,334,865; Mar. 23; v. 272; p. 667.
Keeler Brass Company. (See Wiesman, William A., assignor.)
Keeler, John M., assignor of one-half to C. R. Welsh, New Brighton, Pa. Adjustable spigot or faucet. No. 1,345,496; July 6; v. 276; p. 33.
Keeley, Charles A., assignor of one-fourth to C. C. Shamp and one-fourth to A. A. Myers, Cleveland, Ohio. Flagstaff. No. 1,343,140; June 8; v. 275; p. 353.
Keeling, Fred C., Rockford, Ill. Artificial bait. No. 1,345,600; July 6; v. 276; p. 54.
Keeling, George, New Haven, Conn. Automobile signaling device. No. 1,358,316; Nov. 9; v. 280; p. 276.
Keeling, Harvey A. (See Keeling, William O. and H. A.)
Keeling, J. Walter. (See Davis, Claude B., assignor.)
Keeling, Lloyd, Denver, Colo. Station-indicator. No. 1,331,778; Feb. 24; v. 271; p. 575.
Keeling, William O. and H. A., Franklin, Ind. Automatic safety aeroplane-controller. No. 1,360,756; Nov. 30; v. 280; p. 915.
Keena, Francis V., New York, N. Y. Car-float. No. 1,362,009; Dec. 14; v. 281; p. 253.
Keenan, Ellsworth E., assignor to A. F. Dolan and F. A. Bullock, Attleboro, Mass., and W. G. Bennett, Providence, R. I. Soft-collar fastener. No. 1,354,661; Oct. 5; v. 279; p. 43.
Keenan, John J., New York, N. Y. Apparatus for stopping vehicles. No. 1,356,922; Oct. 26; v. 279; p. 625.
Keene Mica Products Company. (See Waling, Donald, assignor.)
Keene, Wendell P., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Ledger-sheet. No. 1,357,458; Nov. 2; v. 280; p. 49.
Keene, Wendell P., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Ledger-sheet. No. 1,357,638; Nov. 2; v. 280; p. 82.
Keep, Harry W. (See Howard, O. D., and Keep.)
Keeran, Charles R., Chicago, Ill. Forming two-piece caps for receptacles. No. 1,340,449; May 18; v. 274; p. 471.
Keeran, Charles R., Chicago, Ill. Bomb. No. 1,340,546; May 18; v. 274; p. 489.
Keeran, Charles R., Chicago, Ill., assignor, by mesne assignments, to The Wahl Company, Wilmington, Del. Fountain-pen. No. 1,351,574; Aug. 31; v. 277; p. 906.
Keeran, Charles R., Chicago, Ill., assignor, by mesne assignments to The Wahl Company, Wilmington, Del. Fountain-pen. No. 1,351,575; Aug. 31; v. 277; p. 906.
Keeran, Charles R., assignor, by mesne assignments, to Autopoint Pencil Company, Chicago, Ill. Fountain-pen. No. 1,360,647; Nov. 30; v. 280; p. 894.
Kees, F. D., Mfg. Co. (See Kees, Frederick D., assignor.)
Kees, Frederick D. assignor to F. D. Kees Mfg. Co., Beatrice, Nebr. Draft-deflector. No. 1,359,710; Nov. 23; v. 280; p. 641.
Kees, Homer R., and E. F. Thomas, Pampa, Tex. Portable elevator. No. 1,329,084; Jan. 27; v. 270; p. 541.
Keesler, Clyde C., assignor to Watson Wagon Company, Canastota, N. Y. Motor-vehicle. No. 1,350,460; Aug. 24; v. 277; p. 625.
Keesling, Ernest L., San Jose, Calif. Convertible wheel. No. 1,350,813; Aug. 24; v. 277; p. 694.
Keeton, Monroe, Meridian, Miss. Firecracker-holder. No. 1,362,705; Dec. 21; v. 281; p. 441.
Keffer, Charles A. (See Stehle, F., and Keffer.)
Kehawke Mfg. Co. (See Hawkinson, Paul E., assignor.)
Kehn, Edward A., Denver, Colo. Railway-rail fastener. No. 1,346,965; July 20; v. 276; p. 444.
Kehoe, Richard D., Pelham Manor, N. Y. Evaporator. No. 1,363,323; Dec. 28; v. 281; p. 601.
Kehoe, Thomas J., assignor to The Willys-Overland Company, Toledo, Ohio. Universal joint. No. 1,335,740; Apr. 6; v. 273; p. 7.
Kehoe, Thomas J., assignor to The Willys-Overland Company, Toledo, Ohio. Wing construction for flying-machines. No. 1,349,770; Aug. 17; v. 277; p. 445.
Kehoe, Thomas J., assignor to The Willys-Overland Company, Toledo, Ohio. Latch-operating device. No. 1,357,991; Nov. 9; v. 280; p. 212.
Kehr, Cyrus, trustee. (See Simpson, William F., assignor.)
Keim, Ivan N., Mount Holly, N. J. Cushion-tire. No. 1,346,032; July 6; v. 276; p. 139.
Keiper, Henry B., Lancaster, Pa. Combination-tool. No. 1,328,250; Jan. 13; v. 270; p. 318.
Keiper, Henry B., Lancaster, Pa. Ball retainer and separator for thrust-bearings. No. 1,353,044; Sept. 14; v. 278; p. 295.
Keiter, Walter O. (See Fry, H. E., and Keiter.)
Keith, George, assignor of one-half to J. Keith, London, England. Apparatus for delivery of gas and air to furnaces. No. 1,363,513; Dec. 28; v. 281; p. 637.
Keith, Harold L., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Motor-control system. No. 1,330,592; Feb. 10; v. 271; p. 264.
Keith, Henry M., Frankfort, Ill. Pump. No. 1,334,906; Mar. 23; v. 272; p. 675.
Keith, Irving L. (See Stone, John A., assignor.)
Keith, James. (See Keith, George, assignor.)
Keith, James W., Lynchburg, Va. Cork-puller. No. 1,332,048; Feb. 24; v. 271; p. 627.
Keith, John W., and R. W. Williams, Hornbeak, Tenn. Harvest-sack. No. 1,346,038; July 6; v. 276; p. 139.
Keitz, Joseph F., Jersey City, N. J. Eye-shield for automobile-drivers. No. 1,353,759; Sept. 21; v. 278; p. 496.
Kelder, Nial W., Bridgeport, Conn. Liquid-fuel burner. No. 1,362,010; Dec. 14; v. 281; p. 253.
Kell, Frank A. (See Billman, H. E., and Kell.)
Kell, Frank A. (See Ellmann, E. C., Kell, and Zacharias.)
Kell, Jacob, Newark, N. J. Center-point device for lathes, &c. No. 1,345,368; July 6; v. 276; p. 8.
Kellam, Albert S. (See House, Thomas M., assignor.)
Kellam, Albert S., and N. F. Norvell, Richmond, Va. Valve. No. 1,352,900; Sept. 14; v. 278; p. 267.
Kellam, Ernest G., Gray, Ga. Train-signal. No. 1,341,179; May 25; v. 274; p. 681.
Kellan, Edward L., Chicago, Ill. Flush-valve. No. 1,337,177; Apr. 13; v. 273; p. 339.
Kellar, Fred, and W. D. Neely, North Vernon, Ind. Separator. No. 1,358,559; Nov. 9; v. 280; p. 326.
Kellar, George E., Covina, Calif., assignor to Kellar-Thomason Company. Concrete-mixer. No. 1,327,917; Jan. 13; v. 270; p. 255.
Kellar-Thomason Company. (See Kellar, George E., assignor.)
Kelleher, Mary E., Rutland, Vt. Stepladder. No. 1,337,657; Apr. 20; v. 273; p. 504.
Keller, Arthur. (See Gontard, G. H., and Keller.)
Keller, Charles L., Wyoming, Ohio. Roofing. No. 1,348,498; Aug. 3; v. 277; p. 71.
Keller, Clarence D., Los Angeles, Calif. Windshield. (Reissue.) No. 14,919; July 20; v. 276; p. 547.
Keller, Edgar S. (See Bahr, August T. J., assignor.)
Keller, Harry, Chicago, Ill. Pneumatic-tool-valve protector. No. 1,354,833; Oct. 5; v. 279; p. 77.
Keller, James H., Fort Myers, Fla. Pipe-standard. No. 1,331,930; Feb. 24; v. 271; p. 605.
Keller, Jeremiah, Chicago, Ill. Valve-rotating mechanism. No. 1,341,134; May 25; v. 274; p. 672.
Keller, John A., Bay Shore, N. Y. Clothing-ticket. No. 1,345,782; July 6; v. 276; p. 89.
Keller, John G., assignor to The Vilter Manufacturing Company, Milwaukee, Wis. Plate-valve construction. No. 1,350,101; Aug. 17; v. 277; p. 508.
Keller, Joseph F., New York, assignor to Keller Mechanical Engraving Co., Brooklyn, N. Y. Die sinking, engraving, reproducing machine and the like. No. 1,351,211; Aug. 31; v. 277; p. 833.
Keller, Julius, Jr. (See Lederman, John E., assignor.)

Digitized by Google

Keller, Karl O. (See Doxford, R. P., and Keller.)
Keller, Karl O., assignor of one-half to R. P. Doxford, Sunderland, Durham, England. Fuel-injection valve for oil-engines. No. 1,341,911; June 1; v. 275; p. 58.
Keller Mechanical Engraving Company. (See Keller, Joseph F., assignor.)
Keller, Otto. (See Williams, Harry S., assignor.)
Keller Pneumatic Tool Company. (See Keller, William H., assignor.)
Keller, Pneumatic Tool Company. (See Schinkez, Albert, assignor.)
Keller Pneumatic Tool Company. (See Sykes, Lewis, assignor.)
Keller, Phil C. (See Minor, W. F. Keller, and Rolph.)
Keller Printing Company. (See Knorr, Julius, assignor.)
Keller, Stanislaus F., Franklin, La. Settling-tank. No. 1,345,090; June 29; v. 275; p. 926.
Keller, Thomas L., Bristol, Pa., Lightning-arrester. No. 1,363,124; Dec. 21; v. 281; p. 522.
Keller, William H. (See Homan, John G., assignor.)
Keller, William H., assignor to Keller Pneumatic Tool Company, Grand Haven, Mich. Pressure-fluid-actuated tool. No. 1,329,774; Feb. 3; v. 271; p. 80.
Keller, William H., assignor to Keller Pneumatic Tool Company, Fond du Lac, Wis. Pressure-fluid-actuated mechanism. No. 1,332,845; Mar. 2; v. 272; p. 128.
Keller, William H., assignor to Keller Pneumatic Tool Company, Grand Haven, Mich. Percussion-tool. No. 1,350,505; Aug. 24; v. 277; p. 634.
Kellerman, Adolf B., New York, N. Y. Packing-form. No. 1,335,972; Apr. 6; v. 273; p. 51.
Kellerman, Henry R., assignor of one-half to H. P. Fletcher, Sydney, New South Wales, Australia. Latch for doors, gates, and the like. No. 1,350,258; Aug. 17; v. 277; p. 539.
Kelley, Carl D., Lawrence, Kans. Automatic gate. No. 1,356,989; Oct. 26; v. 279; p. 638.
Kelley, Charles E., and G. D. Speicher, Larksville, borough, Pa. Latch for doors of mine-cars. No. 1,353,760; Sept. 21; v. 278; p. 496.
Kelley, Edmund, Boston, Mass. Hydropower-beater. No. 1,327,395; Jan. 6; v. 270; p. 96.
Kelley, Edward F., Stratford, assignor to The Raybestos Company, Bridgeport, Conn. Equalizing device for trailer-brakes. No. 1,341,617; May 25; v. 274; p. 765.
Kelley, Emmor H., and G. A. Stewart, Jr., South Brownsville, Pa. Stand. No. 1,347,637; July 27; v. 276; p. 633.
Kelley, George, Portland, Oreg. Poultry-feeding appliance. No. 1,355,399; Oct. 12; v. 279; p. 241.
Kelley, George S., Cranston, R. I. Bow-holder. No. 1,353,912; Sept. 28; v. 278; p. 570.
Kelley, James. (See Reid, P. A. and W. V., and Kelley.)
Kelley, John I., Philadelphia, Pa. Garter-fastening. No. 1,346,657; July 13; v. 276; p. 324.
Kelley, John M., Rochester, N. Y. Recarbureter for gas-engines. No. 1,355,149; Oct. 12; v. 279; p. 191.
Kelley, Martin V., trustee. (See Stringham, George R., assignor.)
Kelley, Marven, Luling, Tex. Signaling-boiler. No. 1,339,350; May 4; v. 274; p. 129.
Kelley, Orea M., Lowell, Mass. Aerial bomb. No. 1,330,191; Feb. 10; v. 271; p. 190.
Kelley, Spencer D., administrator. (See Black, Josiah, assignor.)
Kelley, William V., assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Paper-feed trough. No. 1,361,588; Dec. 7; v. 281; p. 123.
Kelley, William V. D. (See Raleigh, C., and Kelley.)
Kelley, William V. D., New York, N. Y., assignor, by mesne assignments, to Prizma Incorporated. Motion-picture film. No. 1,337,775; Apr. 20; v. 273; p. 527.
Kelley, William V. D., Brooklyn, and J. Mason, New York, N. Y., assignor, by mesne assignments, to Prizma Incorporated. Photographic printing. No. 1,350,023; Aug. 17; v. 277; p. 493.
Kelley, William V. D., Brooklyn, and J. Mason, New York, N. Y., assignors, by mesne assignments, to Prizma Incorporated. Photographic image. No. 1,350,024; Aug. 17; v. 277; p. 494.
Kellner, Franz, Barmen, Germany. Braiding or lacing machine. No. 7,840,487; May 18; v. 274; p. 478.
Kellner, Henry F., Silver Lake, Kans. Silt-bed-forming device. No. 1,355,051; Oct. 5; v. 279; p. 120.
Kellner, Henry F., Silver Lake, Kans. Silt-accumulating means for water-currents. No. 1,355,052; Oct. 5; v. 279; p. 120.
Kellner, Louis, Brooklyn, N. Y. Electric switch. No. 1,354,758; Oct. 5; v. 279; p. 62.
Kellner, Louis, Brooklyn, N. Y. Electric switch. No. 1,354,759; Oct. 5; v. 279; p. 62.
Kellner, Louis, Brooklyn, N. Y. Electric switch. No. 1,354,760; Oct. 5; v. 279; p. 62.
Kellner, Louis, New York, N. Y. Double-throw snap-switch. No. 1,354,761; Oct. 5; v. 279; p. 63.
Kellner, Louis, New York, N. Y. Electric switch. No. 1,354,762; Oct. 5; v. 279; p. 63.
Kellner, Louis, Brooklyn, N. Y. Electric switch. No. 1,354,763; Oct. 5; v. 279; p. 63.
Kellner, Louis, Brooklyn, N. Y. Double-throw safety-switch. No. 1,354,764; Oct. 5; v. 279; p. 63.
Kellogg, Andrew J., Acton, Calif. Automatic lockout for lamp-sockets. No. 1,345,091; June 29; v. 275; p. 926.
Kellogg, Daniel P., *et al.* (See Sheedy, Patrick, assignor.)
Kellogg, Daniel P., A. P. Neff, W. A. Rogers, and F. Cowan, Los Angeles, Calif. Welding. No. 1,327,098; Jan. 6; v. 270; p. 41.
Kellogg, Daniel P., Los Angeles, Calif. Welding. No. 1,327,099; Jan. 6; v. 270; p. 42.
Kellogg, Daniel P., Los Angeles, Calif. Manufacturing composite tools. No. 1,327,100; Jan. 6; v. 270; p. 42.
Kellogg, Daniel P., Los Angeles, Calif. Composite tool of the revoluble type and making same. No. 1,327,101; Jan. 6; v. 270; p. 42.
Kellogg, Daniel P., and P. Sheedy, Los Angeles, Calif. Locomotive-traction increaser. No. 1,369,175; Nov. 16; v. 280; p. 490.
Kellogg, George W., Rochester, N. Y. Pump. No. 1,356,630; Oct. 26; v. 279; p. 568.
Kellogg, George W., Rochester, N. Y. Pump. No. 1,357,402; Nov. 2; v. 280; p. 38.
Kellogg, Hosford D., Haverford, Pa. Radiator. No. 1,341,649; June 1; v. 275; p. 7.
Kellogg, John L., and B. Kazmann, Battle Creek, Mich., assignors to Kellogg Toasted Corn Flake Co. Food beverage and making same. No. 1,348,999; Aug. 10; v. 277; p. 220.
Kellogg, John L., and B. Kazmann, Battle Creek, Mich, assignors to Kellogg Toasted Corn Flake Co. Food beverage and making same. No. 1,349,000; Aug. 10; v. 277; p. 220.
Kellogg, Lewis L., Denver, Colo. Non-skid device. No. 1,338,934; May 4; v. 274; p. 52.
Kellogg, M. W. Company, The. (See Pratt, William A., assignor.
Kellogg Manufacturing Company. (See Hazard, George E., assignor.)
Kellogg, Paul M., Detroit, Mich. Bolt and nut lock. No. 1,355,342; Oct. 12; v. 279; p. 230.
Kellogg Switchboard and Supply Company. (See Bohlman, Ernest A., assignor.)
Kellogg Switchboard and Supply Company. (See Bryce, Harry W., assignor.)
Kellogg Switchboard and Supply Company. (See Cassaday, Ormond F., assignor.)
Kellogg Switchboard and Supply Company. (See Currier, H. D., and Bryce, assignors.)
Kellogg Switchboard and Supply Company. (See Currier, Hiram D., assignor.)
Kellogg Switchboard and Supply Company. (See Hilbish, John E., assignor.)
Kellogg Switchboard and Supply Company. (See Kaisling, William, assignor.)
Kellogg Switchboard and Supply Company. (See Klay, Albert, assignor.)
Kellogg Switchboard and Supply Company. (See Schoenwolf, Fred, assignor.)
Kellogg Switchboard and Supply Company. (See Sparks, Charles, assignor.)
Kellogg Switchboard and Supply Company. (See Stazak, Michael B., assignor.)
Kellogg Switchboard and Supply Company. (See Wolf, George D., assignor.)
Kellogg Switchboard and Supply Company. (See Yanochowski, George A., assignor.)
Kellogg Toasted Corn Flakes Co. (See Kellogg, J. L., and Kazmann, assignors.)
Kellogg Toasted Corn Flake Company. (See Lorenzen, Frederick G., assignor.)
Kellogg, Waldo S., assignor to Austral Window Co., New York, N. Y. Balanced window. No. 1,352,971; Sept. 14; v. 278; p. 281.
Kellogg, William S., Peoria, Ill. Fuel economizer, mixer, and separator for internal-combustion engines. No. 1,362,261; Dec. 14; v. 281; p. 301.
Kellum, Lyman W., Birdsboro, Pa. Charging mechanism for cupolas. No. 1,335,741; Apr. 6; v. 273; p. 7.
Kellum, Orlando E., Los Angeles, Calif. Motor. No. 1,356,290; Oct. 19; v. 279; p. 456.
Kellum, Orlando E., Los Angeles, Calif. Musical instrument. No. 1,358,752; Nov. 16; v. 280; p. 409.
Kellum, Orlando E., and S. A. Murdock, Los Angeles, Calif.; said Murdock assignor to said Kellum. Phonograph-driving mechanism. No. 1,346,376; July 13; v. 276; p. 268.
Kelly, Adelbert F., Spokane, Wash. Spring-spoke wheel. No. 1,328,244; Jan. 13; v. 270; p. 317.
Kelly, Allen D., Ironton, Ohio. Open link. No. 1,335,377; Mar. 30; v. 272; p. 823.
Kelly, Benjamin F., Denver, Colo. Carrier. No. 1,337,518; Apr. 20; v. 273; p. 478.
Kelly Button Machine Company. (See Kelly, John, assignor.)
Kelly, Charles L., Detroit, Mich. Wrench. No. 1,351,519; Aug. 31; v. 277; p. 894.
Kelly, Daniel R., assignor to J. P. Murray, Toronto, Ontario, Canada. Duster attachment for brooms. No. 1,339,767; May 11; v. 274; p. 285.
Kelly, Ernest B., Chicago, Ill. Thumb-sucking preventer. No. 1,345,783; July 6; v. 276; p. 90.
Kelly, G. A., Plow Company. (See Kelly, Robert M., assignor.)

Digitized by Google

Kelly, Henry D., Kansas City, Mo. Coffee-urn. No. 1,334,497; Mar. 23; v. 272; p. 597.
Kelly, James, Eagle Pass, Tex., assignor of one-half to G. Honetschlager, Stanford, Mont. Ignition system for gas-engines. No. 1,353,045; Sept. 14; v. 278; p. 295.
Kelly, James G., assignor of one-half to H. Hall, Sedalia, Mo. Solder for aluminum. No. 1,336,081; Apr. 6; v. 273; p. 71.
Kelly, John, Chicago, Ill. Piston-ring. No. 1,360,535; Nov. 30; v. 280; p. 872.
Kelly, John, Chicago, Ill. Internal-combustion engine. No. 1,360,536; Nov. 30; v. 280; p. 872.
Kelly, John, assignor to Kelly Button Machine Company, Inc., Norfolk, Va. Button-setting machine. No. 1,356,772; Oct. 26; v. 279; p. 596.
Kelly, John A. (See Demuth, Alfred M., assignor.)
Kelly, John A. (See Shafer, Frank B., assignor.)
Kelly, John C., and C. Enscoe, Dayton, Ohio. Clutch and braking mechanism. No. 1,340,897; May 25; v. 274; p. 626.
Kelly, John F., Elkins, W. Va. Shoe-dauber. No. 1,340,775; May 18; v. 274; p. 532.
Kelly, John L., New York, N. Y. Dental tool. No. 1,356,372; Oct. 19; v. 279; p. 471.
Kelly, Joseph N., Dayton, Ohio. Steering-gear mechanism. No. 1,334,498; Mar. 23; v. 272; p. 597.
Kelly, Joseph N., assignor to Ohmer Fare Register Company, Dayton, Ohio. Steering-wheel. No. 1,333,024; Mar. 9; v. 272; p. 213.
Kelly, Joseph N., assignor to Ohmer Fare Register Company, Dayton, Ohio. Steering mechanism. No. 1,341,326; May 25; v. 274; p. 709.
Kelly, Lawrence, St. Paul, Minn. Hay-stacking machine. No. 1,348,178; Aug. 3; v. 277; p. 9.
Kelly, Mary C. (See Swope, Leon W., assignor.)
Kelly, Orin, Columbus, Ohio. Automatic firing device. No. 1,340,274; May 18; v. 274; p. 437.
Kelly, Robert M., assignor to G. A. Kelly Plow Company, Longview, Tex. Plow. No. 1,327,562; Jan. 6; v. 270; p. 127.
Kelly, Sherman L., Toledo, Ohio. Electric heating element and wiring therefor. No. 1,348,648; Aug. 3; v. 277; p. 101.
Kelly-Springfield Tire Company. (See Convery, John J., assignor.)
Kelly-Springfield Tire Co. (See Lacroix, J. D., and Petersen, assignors.)
Kelly, Thomas D., Hove, England. Construction of packing for piston-rings. No. 1,354,404; Sept. 28; v. 278; p. 670.
Kelly, Thomas W., Indianapolis, Ind. Reinforced-concrete curb structure. No. 1,331,265; Feb. 17; v. 271; p. 459.
Kelly, William D., Lewis Run, Pa. Scaffold. No. 1,336,141; Apr. 6; v. 273; p. 83.
Kelly, William E., Cleveland, Ohio. Adjusting means for boring-bar cutters. No. 1,342,447; June 8; v. 275; p. 216.
Kelly, William E., Cleveland, Ohio. Arbor. No. 1,362,872; Dec. 21; v. 281; p. 473.
Kelly, William E., Cleveland, Ohio. Boring-bar. No. 1,362,871; Dec. 21; v. 281; p. 473.
Kelly, William G., Hot Springs, Ark. Bunk-block. No. 1,340,055; May 11; v. 274; p. 339.
Kelly, William H., Sparks, Nev. Motion-picture-projecting machine. No. 1,341,467; May 25; v. 274; p. 737.
Kelly, William J., Jamaica, N. Y. Door-stop. No. 1,338,571; Apr. 27; v. 273; p. 746.
Kelly, William M., Jersey City, N. J. Stock indicating and recording device. No. 1,343,511; June 15; v. 275; p. 488.
Kelly, William M., assignor to American Type Founders Company, Jersey City, N. J. Printing-press. No. 1,336,841; Apr. 13; v. 273; p. 276.
Kelly, William M., assignor to American Type Founders Company, Jersey City, N. J. Gripper-actuating mechanism. No. 1,339,654; May 11; v. 274; p. 264.
Kelner, Eugene R., Minneapolis, Minn. Instrument adapted to indicate the longitudinal and lateral inclination of airplanes. No. 1,359,711; Nov. 23; v. 280; p. 641.
Kelsall, George A., Jersey City, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Loaded telephone-circuits. No. 1,360,757; Nov. 30; v. 280; p. 915.
Kelsey, Harry S. (See Jaeger, Otto, assignor.)
Kelsey, Henrietta L., Philadelphia, Pa. Knitting-needle. No. 1,327,918; Jan. 13; v. 270; p. 255.
Kelsey, Richard, Lynn, Mass. Penholder-support. No. 1,336,964; Apr. 13; v. 273; p. 299.
Kelsey Wheel Company. (See Kaltz, William J., assignor.) (Reissue.)
Kelsey Wheel Company. (See Winter, John R., assignor.)
Kelso, Benjamin F., Hemet, Calif. Fly-swatter. No. 1,334,246; Mar. 16; v. 272; p. 503.
Kelso, Benjamin F., Pasadena, Calif. Fly-swatter. No. 1,361,337; Dec. 7; v. 281; p. 71.
Kelso, Joseph. (See Kelso, William and J.)
Kelso, Ralph S. (See Moffatt, J. R., and Kelso.)
Kelso, Robert R., Seattle, Wash. Dinner-pail. No. 1,346,034; July 6; v. 276; p. 140.
Kelso, William, assignor to The McConway & Torley Company, Pittsburgh, Pa. Car-coupling. No. 1,332,500; Mar. 2; v. 272; p. 63.
Kelso, William, assignor to The McConway & Torley Company, Pittsburgh, Pa. Transition car-coupling. No. 1,333,817; Mar. 9; v. 272; p. 268.
Kelso, William, assignor to The McConway & Torley Company, Pittsburgh, Pa. Car-coupling. No. 1,338,806; Apr. 27; v. 273; p. 697.
Kelso, William, assignor to The McConway & Torley Company, Pittsburgh, Pa. Car-coupling. No. 1,339,030; May 4; v. 274; p. 70.
Kelso, William, assignor to The McConway & Torley Company, Pittsburgh, Pa. Coupling-carrier. No. 1,362,706; Dec. 21; v. 281; p. 441.
Kelso, William and J., assignors to The McConway & Torley Company, Pittsburgh, Pa. Draft appliance for railway-vehicles. No. 1,346,545; July 13; v. 276; p. 302.
Kelvinator Corporation. (See Copeland, Edmund J., assignor.)
Kelvinator Corporation. (See Heideman, Fred J., assignor.)
Kelvinator Corporation. (See Heideman and Hadjisky, assignors.)
Kelzer, Frank L., Chaska, Minn. Automobile-ventilator. No. 1,343,919; June 22; v. 275; p. 635.
Kemble, Charles P. (See Kennicott, C. L., and Kemble.)
Kemble, Duston, Cortland, Ohio. Electrically-propelled vehicle. No. 1,348,568; Aug. 3; v. 277; p. 85.
Kemble, Thomas S., assignor to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Exhaust-muffler. No. 1,357,992; Nov. 9; v. 280; p. 212.
Kemble, William I., San Francisco, Calif. Lamp-base. No. 1,339,351; May 4; v. 274; p. 120.
Keminskis, Joe, Kenosha, Wis. Wheelbarrow. No. 1,340,898; May 25; v. 274; p. 626.
Kemmer, Frank R., assignor to Republic Carbon Company, Niagara Falls, N. Y. Manufacturing graphite articles. No. 1,357,290; Nov. 2; v. 280; p. 18.
Kemmer, George A., Clintonville, Wis. Gas-engine. No. 1,357,993; Nov. 9; v. 280; p. 212.
Kemmer, Nicholas P., London, England. Car-coupling. No. 1,346,603; July 13; v. 276; p. 313.
Kemmling, August W., Springfield, Mo. Automobile-lock. No. 1,350,316; Aug. 24; v. 277; p. 596.
Kemna, Joseph, Ontario, Calif. Reamer. No. 1,362,325; Dec. 14; v. 281; p. 315.
Kemp, Robert, Washington, D. C., assignor to Westinghouse Electric & Manufacturing Company. Streamlining. No. 1,333,620; Mar. 16; v. 272; p. 386.
Kemp, Walter D., New York, N. Y. Educational game-board. No. 1,339,399; May 11; v. 274; p. 214.
Kemp, Walter D., New York, N. Y. Doll. No. 1,341,985; June 1; v. 275; p. 73.
Kemp, Walter D., New York, N. Y. Toy grenade. No. 1,348,224; Aug. 3; v. 277; p. 19.
Kempel, Frank X., Chicago, Ill. Sign-writer's pen. No. 1,358,215; Nov. 9; v. 280; p. 256.
Kemper, Charles H., Oakland, Calif. Bracelet-gage. No. 1,339,896; May 11; v. 274; p. 309.
Kemper, Earskin G. (See Williams, M. L., and Kemper.)
Kemper, Marie, Toledo, Ohio., assignor of one-third to L. Richards and one-third to A. Edwards, Washington, D. C. Shoe-tip. No. 1,355,747; Oct. 12; v. 279; p. 307.
Kemper, Robert E., Rensselaer, N. Y. Means for associating sheet-feeding mechanism with printing-presses. No. 1,357,459; Nov. 2; v. 280; p. 49.
Kemper, Robert E., Rensselaer, N. Y. Sheet-feeding machine. No. 1,357,460; Nov. 2; v. 280; p. 49.
Kemper, William H., Montgomery, Ala. Traction-chain. No. 1,360,115; Nov. 23; v. 280; p. 721.
Kempf, Roman M., Columbus, Ohio. Shoe-lace hanger. No. 1,347,277; July 20; v. 276; p. 506.
Kempin, Richard A., Rorschach, Switzerland. Toothed change-gear for driving metal-working machines. No. 1,345,497; July 6; v. 276; p. 33.
Kempton, Alonzo F., and C. E. Stady, Wawanesa, Manitoba, Canada. Spring for wagon-seats. No. 1,331,201; Feb. 17; v. 271; p. 447.
Kempton, Harrison D., Providence, R. I. Blade-sharpener. No. 1,332,044; Feb. 24; v. 271; p. 627.
Kempton, Willard H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Constructing containers. No. 1,332,045; Feb. 24; v. 271; p. 627.
Kempton, Willard H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Mold and handling device therefor. No. 1,332,046; Feb. 24; v. 271; p. 627.
Kempton, Willard H., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Flash-mold. No. 1,333,621; Mar. 16; v. 272; p. 386.
Kempton, Willard H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Mold. No. 1,352,457; Sept. 14; v. 278; p. 178.
Kempton, Willard H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Mold. No. 1,354,198; Sept. 28; v. 278; p. 628.
Kempton, Willard H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Process of and apparatus for molding. No. 1,357,238; Nov. 2; v. 280; p. 8.

Digitized by Google

Alphabetical list of patentees—Continued.

Kempton, Willard H., B. J. Gudge, Wilkinsburg, and F. P. Lauffer, Irwin, Pa., assignors to Westinghouse Electric and Manufacturing Company. Forming stream-line bodies. No. 1,344,765; June 29; v. 275; p. 865.
Kenagy, Paul J., Newton, Kans. Electric sign. No. 1,343,141; June 8; v. 275; p. 353.
Kenchen, Simon, New Haven, Conn. Vulcanizer. No. 1,342,916; June 8; v. 275; p. 309.
Kendall, Burton W., assignor to Western Electric Company, Incorporated, New York, N. Y. High-frequency signaling. No. 1,330,471; Feb. 10; v. 271; p. 242.
Kendall, Edward D., Elizabeth, N. J., assignor of one-half to Haggin Estate, Inc. Composition of matter for use in welding steels and iron. No. 1,338,736; May 4; v. 274; p. 16.
Kendall, Ernest. (See Robinson, William H., assignor.)
Kendall, Henry A., assignor to The Efficiency Engineering Company, Baltimore, Md. Lock for automobiles. No. 1,345,014; June 29; v. 275; p. 912.
Kendall, James B., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Reversing mechanism. No. 1,338,086; Apr. 27; v. 273; p. 656.
Kendall, John F., Brooklyn, N. Y. Fuel-economizer. No. 1,333,116; Mar. 9; v. 272; p. 230.
Kendall, John F., Brooklyn, N. Y. Draft-regulating apparatus. No. 1,358,854; Nov. 16; v. 280; p. 429.
Kendall, Maxwell B., Chicago, Ill. Closet clothes-hanger. No. 1,361,070; Dec. 7; v. 281; p. 18.
Kendall, Myron A., assignor to Stephens-Adamson Mfg. Co., Aurora, Ill. Coal-crusher. No. 1,352,609; Sept. 14; v. 278; p. 208.
Kendall, Sarah F. (See Kendall, William H., assignor.)
Kendall, William G., Newark, N. J. Vanity-case. No. 1,329,412; Feb. 3; v. 271; p. 13.
Kendall, William G., Newark, N. J. Rouge-powder measure. No. 1,340,275; May 18; v. 274; p. 437.
Kendall, William G., Newark, N. J. Vanity-case. No. 1,342,116; June 1; v. 275; p. 99.
Kendall, William H., assignor to S. F. Kendall, Monson, Mass. Machine for blocking and pressing hats. No. 1,343,185; June 8; v. 275; p. 361.
Kendig, Christian H. (See Kendig, Witmer J., assignor.)
Kendig, Witmer J., Lancaster, assignor of one-fourth to C. H. Kendig, Reading, Pa. Sewing-machine needle. No. 1,333,259; Mar. 9; v. 272; p. 257.
Kendrick, Karl A., assignor of one-fourth to M. C. Booth, Detroit, Mich. Lamp-operating mechanism. No. 1,361,265; Dec. 7; v. 281; p. 56.
Kendrick, Solomon, Revere, assignor to Everlastik, Incorporated, Boston, Mass. Needle-loom. No. 1,330,810; Feb. 17; v. 271; p. 373.
Kendt, William F., Buffalo, N. Y. Funnel. No. 1,347,383; July 20; v. 276; p. 526.
Kenerson, Stanley M., assignor of one-third to H. H. Marston, South Braintree, Mass. Governor. No. 1,334,499; Mar. 23; v. 272; p. 597.
Kennard, Joseph S., Jr., New York, N. Y. Combined motion-picture camera and projector. No. 1,352,003; Sept. 7; v. 278; p. 57.
Kennard, Lee W., Omaha, Nebr. Shipping-case. No. 1,356,453; Oct. 19; v. 279; p. 486.
Kennard, William W., Sewickley, Pa. Dirigible headlight. No. 1,339,352; May 4; v. 274; p. 129.
Kenneck, George, Gate, Okla. Conveyer-belt. No. 1,354,493; Oct. 5; v. 279; p. 9.
Kennedy, Absalom M., Cloverdale, Ala. Method and means for analyzing gaseous mixtures. No. 1,333,850; Mar. 16; v. 272; p. 429.
Kennedy, Alexis F., *et al.* (See Schadt, A. M., and Griffis, assignors.)
Kennedy, Benjamin H. (See Kennedy, Dewey M., assignor.)
Kennedy, Charles F., assignor to The Atlantic Refining Company, Philadelphia, Pa. Revivification of filtering agents. No. 1,356,631; Oct. 26; v. 279; p. 568.
Kennedy, Charles L., Columbia, S. C. Automatic boeing-machine. No. 1,336,299; Apr. 6; v. 273; p. 112.
Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,347,638; July 27; v. 276; p. 633.
Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,347,744; July 27; v. 276; p. 655.
Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,347,745; July 27; v. 276; p. 655.
Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,347,746; July 27; v. 276; p. 656.
Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,347,747; July 27; v. 276; p. 656.
Kennedy, Dewey M., Rochester, N. Y. Signal system. No. 1,349,001; Aug. 10; v. 277; p. 220.
Kennedy, Dewey M., assignor of one-half to B. H. Kennedy, Rochester, N. Y. Caster. No. 1,342,448; June 8; v. 275; p. 216.
Kennedy, Donald S., New York, N. Y. Resilient tire. No. 1,355,748; Oct. 12; v. 279; p. 308.
Kennedy, Edward F., Philadelphia, Pa. Treating steel. No. 1,334,379; Mar. 23; v. 272; p. 574.
Kennedy, George C., Waterloo, Iowa. Sectional crypt. No. 1,330,192; Feb. 10; v. 271; p. 190.
Kennedy, George C., Waterloo, Iowa. Mausoleum. No. 1,333,423; Mar. 9; v. 272; p. 288.
Kennedy, George D., Jefferson City, assignor of one-half to F. M. Strickland, Springfield, Mo. Air-heating attachment. No. 1,349,461; Aug. 10; v. 277; p. 311.
Kennedy, George W., Waterloo, Iowa. Cream and milk aerator. No. 1,344,902; June 29; v. 275; p. 891.
Kennedy, Harry, Buffalo, N. Y. Mud-gun. No. 1,332,298; Mar. 2; v. 272; p. 24.
Kennedy, James F., Charleston, S. C. Basket-fastener. No. 1,351,334; Aug. 31; v. 277; p. 858.
Kennedy, James G., assignor of one-half to W. H. Brown, Chicago, Ill. Nut-blancher. No. 1,350,506; Aug. 24; v. 277; p. 634.
Kennedy, James G., assignor of one-half to W. H. Brown, Chicago, Ill. Nut-blancher. No. 1,362,252; Dec. 14; v. 281; p. 801.
Kennedy, James M., Columbus, Ohio. Bolter-screen attachment. No. 1,336,300; Apr. 6; v. 273; p. 112.
Kennedy, John C., Matumata, Auckland, New Zealand. Agitator for milk and other liquids. No. 1,358,317; Nov. 9; v. 280; p. 276.
Kennedy, John E., Glens Falls, N. Y. Automatic telltale for pneumatic tires. No. 1,338,637; Apr. 27; v. 273; p. 759.
Kennedy, John L. (See Hopkins, Morton K., assignor.)
Kennedy, John S., Philadelphia, Pa. Gas-washing apparatus. No. 1,339,112; May 4; v. 274; p. 87.
Kennedy, Joseph, Richmond Hill, assignor to The Clements Co., New York, N. Y. Bolt-anchor. No. 1,352,199; Sept. 7; v. 278; p. 93.
Kennedy, Joseph, Richmond Hill, assignor, by mesne assignments, to The Orsbee Co., Inc., New York, N. Y. Bolt-anchor. No. 1,352,200; Sept. 7; v. 278; p. 93.
Kennedy, Joseph, Richmond Hill, assignor, by mesne assignments, to The Orsbee Co., Inc., New York, N. Y. Bolt-anchor. No. 1,352,201; Sept. 7; v. 278; p. 93.
Kennedy, Joseph A., Pawtucket, assignor to Chernack Manufacturing Company, Providence, R. I. Circular loom. No. 1,327,676; Jan. 13; v. 270; p. 210.
Kennedy, Joseph A., assignor to Chernack Manufacturing Company, Pawtucket, R. I. Method of and machine for producing internally coated or lined woven tubes. No. 1,327,677; Jan. 13; v. 270; p. 210.
Kennedy, Joseph A., assignor to Chernack Manufacturing Company, Pawtucket, R. I. Tension device for looms. No. 1,333,808; Mar. 16; v. 272; p. 421.
Kennedy, Joseph E., New York, N. Y. Crushing-roll machine. No. 1,356,291; Oct. 19; v. 279; p. 456.
Kennedy, Joseph E., New York, N. Y. Pulverizing apparatus. No. 1,356,292; Oct. 19; v. 279; p. 456.
Kennedy, Joseph E., New York, N. Y. Combination ball-tube mill. No. 1,360,648; Nov. 30; v. 280; p. 894.
Kennedy, Julian, Pittsburgh, Pa. Blast-furnace. No. 1,332,846; Mar. 2; v. 272; p. 128.
Kennedy, Lawrence F., St. Paul, Minn. Resilient recoil-pad for gun-stocks. No. 1,328,924; Jan. 27; v. 270; p. 511.
Kennedy, Michael F., Jr., Atlanta, Ga. Camera. No. 1,328,741; Jan. 20; v. 270; p. 447.
Kennedy, Noah A., Cando, N. D. Tractor. No. 1,356,070; Oct. 19; v. 279; p. 411.
Kennedy, Thomas, and C. B. Kiser, Newton, assignors of one-third to C. G. Loud, Dodge City, Kans. Waterglass light. No. 1,334,703; Mar. 23; v. 272; p. 635.
Kennedy, Thomas G., *et al.* (See Schadt, A. M., and Griffis, assignors.)
Kennedy, Walter, New York, N. Y. Gas-fixture. No. 1,356,153; Oct. 19; v. 279; p. 428.
Kennedy, Walter C. (See Mayer, W. S., and Kennedy.)
Kennedy, Walter J., and G. Yelle, Indian Orchard, Mass. Monument. No. 1,345,196; June 29; v. 275; p. 947.
Kennedy, William H., Chicago, Ill. Coupling. No. 1,341,135; May 25; v. 274; p. 672.
Kennedy, William P., New York, N. Y. Submarine. No. 1,358,081; Nov. 9; v. 280; p. 230.
Kenner, Nettie C. (See Osgood, Samuel W., assignor.)
Kennerly, Milton C., Stuart, Okla. Churn-support. No. 1,337,362; Apr. 20; v. 273; p. 449.
Kenneweg, Albert H., Brooklyn, N. Y. Port-light. No. 1,350,507; Aug. 24; v. 277; p. 635.
Kenney, Albert T. (See Colwell and Kenney.)
Kenney, Charles D. (See Smith, George H., assignor.)
Kenney, David T., North Plainfield, N. J. Heating system. No. 1,352,371; Sept. 7; v. 278; p. 126.
Kenney, Edward F., Philadelphia, Pa. Straightening rail. No. 1,363,601; Dec. 28; v. 281; p. 655.
Kenney, Frank E., Portland, Oreg. Hydraulic donkey-engine. No. 1,340,547; May 18; v. 274; p. 489.
Kenney, James R., Braddock, Pa., assignor to Westinghouse Electric & Manufacturing Company. Shaft-oscillator. No. 1,339,897; May 11; v. 274; p. 309.
Kenney, John J., assignor to Best Electric Company, Pittsburgh, Pa. Attachment-plug. No. 1,338,226; Apr. 27; v. 273; p. 682.
Kenney, John J., assignor to Best Electric Company, Pittsburgh, Pa. Separable attachment-plug. No. 1,341,468; May 25; v. 274; p. 737.

Digitized by Google

Kenney, Joseph C., Scottdale, Pa. Mechanism support for talking-machines. No. 1,336,842; Apr. 13; v. 273; p. 276.
Kennicott, Cass L., and C. P. Kemble, Chicago Heights; said Kennicott assignor, by mesne assignments, to A. C. Harding, Chicago, Ill. Machine for forming metal. No. 1,352,813; Sept. 14; v. 278; p. 250.
Kenniker, Nicholas O., assignor to Durable Box Co., Chicago, Ill. Binding corner connection for knockdown boxes. No. 1,335,060; Mar. 30; v. 272; p. 764.
Kenniker, Nicholas O., and F. A. Fritze, Jr., assignors to Durable Box Co., Chicago, Ill. Box. No. 1,340,119; May 11; v. 274; p. 352.
Kennington, George W., Brooklyn, N. Y. Self-seating door-handle. No. 1,337,918; Apr. 20; v. 273; p. 554.
Kennington, William O., London, England, assignor to The Remy Electric Company. Ignition system. No. 1,347,511; July 27; v. 276; p. 608.
Kennington, William O., Detroit, Mich., assignor to Remy Electric Company, Anderson, Ind. Ignition-controller. No. 1,360,758; Nov. 30; v. 280; p. 915.
Kennison, Willis E., Providence, R. I. Tie-clip. No. 1,358,560; Nov. 9; v. 280; p. 326.
Kenny, Edward C., Brooklyn, N. Y. Horseshoe. No. 1,349,888; Aug. 17; v. 277; p. 468.
Kenny, Herman C. (See Benedict, C. H., and Kenny.)
Kenny, William J. (See Doyle, J. H., and Kenny.)
Kenny, William J., Cicero, Ill., assignor to American Can Company, New York, N. Y. Bail-end-forming machine. No. 1,343,267; June 15; v. 275; p. 441.
Kenny, William J., Cicero, Ill., assignor to American Can Company, New York, N. Y. Device for attaching bails to container-bodies. No. 1,343,920; June 22; v. 275; p. 635.
Kenosha Wheel & Axle Company. (See Wood, Lloyd E., assignor.)
Kent, Alden J., assignor of one-half to S. F. Knowles, Jr., Rowley, Mass. Twisting and winding machine. No. 1,337,658; Apr. 20; v. 273; p. 505.
Kent, Alexander W., assignor of one-half to C. K. Hershey, Los Angeles, Calif. Traffic-signaling system. No. 1,357,875; Nov. 2; v. 280; p. 128.
Kent, Arthur A. (See Richter, William H., assignor.)
Kent, Arthur A., Rosemont, Pa. Electric igniting mechanism for internal-combustion engines. No. 1,341,136; May 25; v. 274; p. 672.
Kent, Charles E., assignor of one-tenth to W. L. Bowers, Los Angeles, Calif. Hose-clamping tool. No. 1,334,657; Mar. 23; v. 272; p. 627.
Kent, Earl and G., Tacoma, Wash. Stirring and dipping device. No. 1,361,766; Dec. 7; v. 281; p. 157.
Kent, George S., Buffalo, N. Y. Boiler. No. 1,355,049; Oct. 5; v. 279; p. 119.
Kent, Glenn. (See Kent, Earl and G.)
Kent, Leslie H. (See de Normanville, S. A., and Kent.)
Kent, Reese B., Wheeling, W. Va. Musical instrument. No. 1,330,078; Feb. 10; v. 271; p. 169.
Kent, Walter G. (See Hunt, Nathaniel H., assignor.)
Kent, William J., Brooklyn, N. Y., assignor to Revere Rubber Company. Shaping vulcanizable plastics. No. 1,332,847; Mar. 2; v. 272; p. 128.
Kent, William J., Brooklyn, N. Y., assignor to Revere Rubber Company. Apparatus for cutting blanks. No. 1,332,848; Mar. 2; v. 272; p. 128.
Kent, William J., Brooklyn, N. Y. assignor to The Mechanical Rubber Company. Hoof-protector. No. 1,338,986; May 4; v. 274; p. 62.
Kent, William J., assignor to The Mechanical Rubber Company, Brooklyn, N. Y. Machine for trimming rubber mats. No. 1,359,072; Nov. 16; v. 280; p. 471.
Kent, William J., Brooklyn, N. Y., assignor to The Mechanical Rubber Company. Machine for making roll-packing. No. 1,362,106; Dec. 14; v. 281; p. 272.
Kent, William J., Brooklyn, N. Y., assignor to New York Belting & Packing Company. Method and apparatus for assembling and attaching tiling. No. 1,350,410; Aug. 24; v. 277; p. 615.
Kenworthy, Abel, Waterbury, Conn. Collapsible block. No. 1,337,017; Apr. 13; v. 273; p. 309.
Kenworthy, Alvin C., Walla Walla, Wash. Friction variable-speed transmission mechanism. No. 1,361,466; Dec. 7; v. 281; p. 99.
Kenworthy, James A., Los Angeles, Calif. Hydrocarbon-burners. No. 1,359,176; Nov. 16; v. 280; p. 490.
Kenyon, Bertrand F., Grand Rapids, assignor, by mesne assignments, to Grand Rapids Trust Company, trustee, East Grand Rapids, Mich. Aeroplane control. No. 1,332,344; Mar. 2; v. 272; p. 32.
Kenyon, Bertrand F., Grand Rapids, assignor, by mesne assignments, to Grand Rapids Trust Company, trustee, East Grand Rapids, Mich. Aircraft control. No. 1,332,345; Mar. 2; v. 272; p. 32.
Kenyon, Louis L., Iowa City, Iowa. Coöperating means for banjo-heads. No. 1,349,067; Aug. 10; v. 277; p. 234.
Kenyon, Otis A., New York, N. Y. Multiple-arc welding. No. 1,340,056; May 11; v. 274; p. 339.
Kenyon, Otis A., New York, N. Y. Automatic welding-machine. No. 1,362,491; Dec. 14; v. 281; p. 347.
Kenyon, William H., and J. L. Shorrock, assignors to Entwisle and Kenyon Limited, Accrington, England. Driving attachment for vacuum cleaning apparatus. No. 1,362,423; Dec. 14; v. 281; p. 334.
Kepler, Cleli S., Keosauqua, Iowa. Cold-pack cooking device. No. 1,345,601; July 6; v. 276; p. 54.
Kepler, Darrell S., Crawfordsville, Ind., assignor of one-half to H. A. Woodworth, Sedalia, Mo. Mixing apparatus for soda-fountains. No. 1,343,829; June 15; v. 275; p. 552.
Keplinger, George B., Chicago, Ill. Broom-hanger. No. 1,350,654; Aug. 24; v. 277; p. 663.
Keplinger, George B., Chicago, Ill. Broom-hanger. No. 1,362,996; Dec. 21; v. 281; p. 496.
Keplinger, George B., assignor to Cruver Manufacturing Company, Chicago, Ill. Fly-killing implement. No. 1,331,266; Feb. 17; v. 271; p. 459.
Kepner, Eugene T., Helena, Mont. Coal-car. No. 1,357,994; Nov. 9; v. 280; p. 213.
Keppel, Jesse E., assignor to International Aerial Navigation Company, St. Louis, Mo. Tail-light signal. No. 1,352,279; Sept. 7; v. 278; p. 108.
Kerkhof, Cornelus. (See De Baun, H. C., Schwer, and Kerkhof.)
Kerkhoff, Edward F., Indianapolis, Ind. Transmission-gearing. No. 1,359,387; Nov. 16; v. 280; p. 532.
Kerlee, Charles E. (See Mulkern, Thomas A., assignor.)
Kerley, Thurman T., Cairo, Ill. Gate for street-cars. No. 1,356,632; Oct. 26; v. 279; p. 568.
Kermath, James, Detroit, Mich. Center. No. 1,336,843; Apr. 13; v. 273; p. 276.
Kermode, Elmer G., Cleveland, Ohio. Electric switch. No. 1,349,573; Aug. 17; v. 277; p. 407.
Kern, Bernice. (See Tracy, Mearl V., assignor.)
Kern, Edward A., *et al.* (See Decker, George W., assignor.)
Kern, John, Los Angeles, Calif. Reflector-mounting. No. 1,358,159; Nov. 9; v. 280; p. 245.
Kern, Maximilian H., Ridgewood, N. Y., assignor to Roberts Numbering Machine Company. Numbering-head. No. 1,337,232; Apr. 20; v. 273; p. 424.
Kern, Walter C., and W. Young, Leavenworth, Kans. Dump-body hoist. No. 1,328,837; Jan. 27; v. 270; p. 494.
Kern, William L., Alameda, Calif. Bitstock. No. 1,341,180; May 25; v. 274; p. 681.
Kernen, Emil, Weiner, Ark. Manure-loader. No. 1,339,263; May 4; v. 274; p. 113.
Kerner, Frank J. (See Layeux, Esery, assignor.)
Kerner Manufacturing Company. (See Heller, Jesse B., assignor.)
Kerngood, Allen H., assignor to Alma Manufacturing Company of Baltimore, Baltimore, Md. Apparel-buckle. No. 1,333,260; Mar. 9; v. 272; p. 257.
Kernsten, Otto, Detroit, Mich. Commutator. No. 1,340,857; May 18; v. 274; p. 547.
Kerosene Burning Carburetor Company. (See McCutchan, Harvey S., assignor.)
Kerotype, Limited. (See Middleton, Thomas P., assignor.)
Kerr, Andrew, Belfast, Ireland. Train and like control system. No. 1,363,514; Dec. 28; v. 281; p. 638.
Kerr, Charles V., assignor to The American Well Works, Aurora, Ill. Centrifugal pump. No. 1,334,461; Mar. 23; v. 272; p. 590.
Kerr, Charles V., assignor to The American Well Works, Aurora, Ill. Centrifugal pump. No. 1,337,659; Apr. 20; v. 273; p. 505.
Kerr, George W., Racine, Wis. Curtain-window. No. 1,345,602; July 6; v. 276; p. 54.
Kerr, Howard J., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Economizer for transverse drum boilers. No. 1,345,369; July 6; v. 276; p. 9.
Kerr, John H., Fort Mills, Corregidor, Philippine Islands. Combined line-reel and marker or chalker. No. 1,338,935; May 4; v. 274; 53.
Kerr, John J., Lincoln, England. Manufacture of propellers. No 1,345,859; July 6; v. 276; p. 104.
Kerr, John W., Los Angeles, Calif. Can cap and seal. No. 1,343,782; June 15; v. 275; p. 542.
Kerr, Mark B., assignor to Western Electric Company, Incorporated, New York, N. Y. Printing-telegraph receiver. No. 1,330,472; Feb. 10; v. 271; p. 242.
Kerr, Richard, Liverpool, England. Detonating device for projectiles. No. 1,331,648; Feb. 24; v. 271; p. 551.
Kerr, Robert, Sr., Manhattan, Kans. Ventilated-seat structure. No. 1,356,493; Oct. 19; v. 279; p. 494.
Kerr, William J., Smethport, Pa. Top. No. 1,338,572; Apr. 27; v. 273; p. 747.
Kerr, William J., Smethport, Pa. Top. No. 1,338,573; Apr. 27; v. 273; p. 747.
Kerr, William J., Smethport, Pa. Top. No. 1,338,574; Apr. 27; v. 273; p. 747.
Kerr, William J., Smethport, Pa. Top. No. 1,338,575; Apr. 27; v. 273; p. 747.
Kershaw, Edwin T., Denver, Colo., assignor to The Hunter Gas Engine and Development Company. Internal-combustion engine. No. 1,337,077; Apr. 13; v. 273; p. 321.
Kershaw, Edwin T., Denver, Colo., assignor to The Hunter Gas Engine and Development Company. Internal-combustion engine. No. 1,343,142; June 8; v. 275; p. 353.

Digitized by Google

Kershaw, Frederick. (See Schwartz, W. M., and Kershaw.)
Kershaw, Joseph, Joplin, Mo. Safety-lock for automobile-tires. No. 1,329,528; Feb. 3; v. 271; p. 35.
Kershaw, William E., Philadelphia, Pa. Secondary or storage multivolt battery. No. 1,341,469; May 25; v. 274; p. 737.
Kersten, Herbert R., Boston, Mass. Apparatus for use in preparing anesthetics. No. 1,362,873; Dec. 21; v. 281; p. 473.
Kersten, Karl E., Chicago, Ill. Beater-belt for hog-scrapers. No. 1,329,529; Feb. 3; v. 271; p. 35.
Kersten, Rudolf, Dresden, N. D. Stovepipe joint or coupling. No. 1,356,373; Oct. 19; v. 279; p. 471.
Kessel, Frank, assignor to The Mansfield Lock Washer Company, Mansfield, Ohio. Lock-washer-making machine. No. 1,338,737; May 4; v. 274; p. 16.
Kessel, Fred, New York, N. Y. Caster. No. 1,352,004; Sept. 7; v. 278; p. 58.
Kessel, John A., Buffalo, N. Y. Ash-sifter. No. 1,352,667; Sept. 14; v. 278; p. 220.
Kesselman, Samuel, Newark, N. J. Chair. No. 1,335,973; Apr. 6; v. 273; p. 51.
Kesselring, Fritz, Neuhausen, Switzerland. Continuous-current dynamo. No. 1,346,213; July 13; v. 276; p. 236.
Kessen, Henry, Coldwater, Ohio. Metal-bending machine. No. 1,348,806; Aug. 3; v. 277; p. 130.
Kessler, Alphonso, Dunkirk, N. Y. Scarfpin-holder. No. 1,348,120; July 27; v. 276; p. 730.
Kessler, Alphonso D., Dunkirk, N. Y. Collar-holder. No. 1,334,907; Mar. 23; v. 272; p. 675.
Kessler, Benjamin H., Tampa, Fla. Engine-valve attachment. No. 1,336,237; Apr. 6; v. 273; p. 101.
Kessler, Ernst, Biel, Switzerland. Hose-coupling especially applicable to pressure and vacuum brake pipes. No. 1,343,084; June 8; v. 275; p. 342.
Kessler, Johannes M., West Orange, assignor to The Arlington Company, Arlington, N. J. Solidified fuel. No. 1,329,610; Feb. 3; v. 271; p. 50.
Kessler, Johannes M., West Orange, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Nitrocellulose composition. No. 1,357,876; Nov. 2; v. 280; p. 129.
Kessler, Johannes M., West Orange, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Cellulose-ester composition. No. 1,360,759; Nov. 30; v. 280; p. 916.
Kessler, John H., Binghamton, N. Y. Extension window-screen. No. 1,352,372; Sept. 7; v. 278; p. 126.
Kessler, John H., Vineland, N. J. Specific-gravity tester. No. 1,360,537; Nov. 30; v. 280; p. 872.
Kestenman, Abraham, assignor to Kestenman Bros. Mfg. Company, Providence, R. I. Lingerie-clasp. No. 1,327,761; Jan. 13; v. 270; p. 226.
Kestenman Bros. Mfg. Company. (See Kestenman, Abraham, assignor.)
Kester, James A., Gastonia, N. C., assignor of one-half to H. M. Clemmer, Dallas, N. C. Roll-traverse. No. 1,336,703; Apr. 13; v. 273; p. 249.
Ketcham, Ira G. (See Andrews, Lewis G., assignor.)
Ketcham, Raymond C., *et al.* (See Powers, Franklin H., assignor.)
Ketchum, Everett H., Jamestown, N. Y. Educational block. No. 1,354,910; Oct. 5; v. 279; p. 98.
Ketchum, Zebulum C., Ottawa, Ontario, Canada. Instrument for marking cattle and other animals. No. 1,361,338; Dec. 7; v. 281; p. 72.
Ketler, William H., assignor of one-third to H. C. Engel, Camden, N. J. Toasting and boiling device. No. 1,336,565; Apr. 13; v. 273; p. 222.
Ketterer, Charles A., East St. Louis, Ill. Refrigerator. No. 1,350,655; Aug. 24; v. 277; p. 663.
Kettering, Charles F., Dayton, Ohio, assignor to The Domestic Engineering Company. Ventilating system. No. 1,331,649; Feb. 24; v. 271; p. 552.
Kettering, Charles F., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Circuit-breaker indicating device. No. 1,336,142; Apr. 6; v. 273; p. 83.
Kettering, Charles F., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Circuit-breaker indicating device. No. 1,336,143; Apr. 6; v. 273; p. 83.
Kettering, Charles F., assignor, by mesne assignments, to The Delco-Light Company, Dayton, Ohio. System of electrical distribution and control. No. 1,337,363; Apr. 20; v. 273; p. 449.
Kettering, Charles F., assignor, by mesne assignments, to The Delco-Light Company, Dayton, Ohio. System of electrical generation and control. No. 1,337,364; Apr. 20; v. 273; p. 449.
Kettering, Charles F., assignor, by mesne assignments, to The Delco-Light Company, Dayton, Ohio. System of electrical generation and control. No. 1,338,987; May 4; v. 274; p. 62.
Kettering, Charles F., assignor to Delco-Light Company, Dayton, Ohio. System of electrical control. No. 1,351,910; Sept. 7; v. 278; p. 40.
Kettering, Charles F., and W. A. Chryst, assignors, by mesne assignments, to Delco-Light Company, Dayton, Ohio. System of electrical generation. No. 1,341,327; May 25; v. 274; p. 709.
Ketteringham, George W., La Fayette, La. Drip-pan for sanitary closets. No. 1,354,199; Sept. 28; v. 278; p. 629.
Ketteringham, William K., Jr., Jackson, Miss. Fastener for trims and jambs. No. 1,348,721; Aug. 3; v. 277; p. 114.
Key, John R., Leavenworth, Kans. Road-grader. No. 1,328,233; Jan. 13; v. 270; p. 315.
Key, Lee H., assignor of one-half to A. K. Shelton, Petros, Tenn. Reverse-gear. No. 1,331,267; Feb. 17; v. 271; p. 459.
Keyes, Charles H., Denver, Colo. Brake-shoe. No. 1,353,914; Sept. 28; v. 278; p. 570.
Keyes Fibre Company. (See Williamson, Bert R., assignor.)
Keyes, Frank H., *et al.* (See Devereaux, Francis A., assignor.)
Keyes, Frederick G., assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Wire-drawing machinery. No. 1,341,986; June 1; v. 275; p. 73.
Keyes, Joseph A., assignor to Locomotive Superheater Company, New York, N. Y. Damper. No. 1,349,068; Aug. 10; v. 277; p. 234.
Keyes, Robert E. (See Lissauer, A. W., Fleisher, and Keyes.)
Keynton, Howard, West Hoboken, N. J., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Pressure-gage. No. 1,333,649; Mar. 9; v. 272; p. 312.
Keyoke Railway Equipment Company. (See Murray, George C., assignor.)
Keys, Lee L., Yakima, Wash. Tire-tool. No. 1,338,576; Apr. 27; v. 273; p. 747.
Keyser, Isaac N., Urbana, Ohio. Vermin-exterminator. No. 1,352,067; Sept. 7; v. 278; p. 69.
Keyser, John N., Washington, D. C. Automobile-signal. No. 1,331,844; Feb. 17; v. 271; p. 473.
Keystone Driller Company. (See Downie, Robert M., assignor.)
Keystone Manufacturing Company. (See Marks, Isidore, assignor.)
Keystone Snap Fastener Corporation. (See Normand, Henry S., assignor.)
Keystone Steel & Wire Company. (See Herman, Joseph L., assignor.)
Keystone Steel & Wire Company. (See Schueler, Julian L., assignor.)
Keystone Watch Case Company, The. (See Cook, Wilbur C., assignor.)
Keyworth, William C., Paterson, N. J. Swift for reeling-machines. No. 1,352,458; Sept. 14; v. 278; p. 178.
Keyzer, Joseph N. M., assignor to Southern Electro Steel Company, Inc., Lynchburg, Va. Lawn-mower. No. 1,351,520; Aug. 31; v. 277; p. 894.
Khavin, Rudolph. (See Reibin, Fedor K., assignor.)
Khun, Albert M., Elizabeth, N. J. Safety-trap. No. 1,356,580; Oct. 26; v. 279; p. 549.
Kibler, John B., Girard, Pa. Electric treating and exercising machine. No. 1,344,002; June 22; v. 275; p. 650.
Kickham, Micheal J., East St. Louis, Ill. Faucet. No. 1,363,125; Dec. 21; v. 281; p. 522.
Kicklighter, Charles H., Atlanta, Ga. Joining structural steel members by electric welding. No. 1,329,413; Feb. 3; v. 271; p. 13.
Kicklighter, Charles H., Macon, Ga. Joining metals by electric welding. No. 1,340,170; May 18; v. 274; p. 419.
Kicklighter, Charles H., Macon, Ga. Electrically welding metal plates. No. 1,347,278; July 20; v. 276; p. 506.
Kidde, Walter. (See Freygang, W. H., Kidde, and Worth.)
Kidde, Walter, & Company. (See Freygang, W. H., Kidde, and Worth, assignors.)
Kiddelsen, Charles E., Chicago, Ill. Circuit-closer for burglar-alarms. No. 1,330,478; Feb. 10; v. 271; p. 242.
Kidder, Arthur B. (See Berg, W. J., and Kidder.)
Kidder, Dwight E., Minneapolis, Minn., assignor of one-half to M. E. Olson, Vancouver, British Columbia, Canada. Automobile-headlight control. No. 1,343,143; June 8; v. 275; p. 353.
Kidder, William C., Buffalo, N. Y. Tone-transformer. No. 1,362,326; Dec. 14; v. 281; p. 315.
Kiddle, Frederick W., Leamington, assignor to Winget Limited, London, England. Mixing-machine for concrete and like substances. No. 1,361,870; Dec. 14; v. 281; p. 225.
Kidney, Harvey R., Cleveland, Ohio. Means for attaching spurs to traction-wheels. No. 1,332,261; Mar. 2; v. 272; p. 16.
Kidney, Harvey R., Cleveland, Ohio. Compensating driving mechanism for motor-vehicles. No. 1,351,761; Sept. 7; v. 278; p. 9.
Kido, Suekichi, Nishisuma, Hyogo-Ken, assignor to Kanegafuchi Boseki Kabuskiki Kwaisha, Minamikatsushika-Gun, Tokyo-Fu, Japan. Apparatus for mixing cotton. No. 1,346,828; July 20; v. 276; p. 417.
Kidwell, Edgar, Philadelphia, Pa. Steam-boiler. No. 1,348,179; Aug. 3; v. 277; p. 9.
Kidwell, Edgar, Milwaukee, Wis. Baffle for water-tube boilers. No. 1,349,574; Aug. 17; v. 277; p. 407.
Kidwell, Harry S. (See Smith, C. W., and Kidwell.)
Kidwell, James A., Lakewood, Ohio. Check-cabinet. No. 1,340,231; May 18; v. 274; p. 430.

Digitized by Google

Kiefer, Arthur W., Chicago, Ill. Pipe-wrench. No. 1,353,246; Sept. 21; v. 278; p. 394.
Kiefer, Charles J., Tiffin, Ohio. Reducer for rings. No. 1,357,200; Oct. 26; v. 279; p. 679.
Kiefer, John M., Jr., assignor to Splitdorf Electrical Company, Newark, N. J. Electric-cable-connecting means. No. 1,336,437; Apr. 13; v. 273; p. 198.
Kiefer, Otto G., assignor of one-third to A. Pfitzer, Chicago, Ill. Confectionery-machine. No. 1,341,137; May 25; v. 274; p. 673.
Kieffer, Blaise, Pittsburgh, Pa. Hardening copper. No. 1,359,810; Nov. 23; v. 280; p. 661.
Kiehl, Leslie R., Raton, N. Mex. Pump. No. 1,328,165; Jan. 13; v. 270; p. 302.
Kiehler, Frederick, assignor to Cadillac Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,345,931; July 6; v. 276; p. 119.
Kielar, Stanislaw, Milwaukee, Wis. Office-desk appliance. No. 1,333,851; Mar. 16; v. 272; p. 429.
Kien, Edward T., Elmhurst, Ill., assignor of one-half to E. S. Newton and W. M. Hardwick, Chattanooga, Tenn. Pump. No. 1,355,231; Oct. 12; v. 279; p. 209.
Kienle, Charles. (See Reid, J. E., and Kienle.)
Kiernan, Patrick W., assignor to Lowell Bleachery, Lowell, Mass. Waterproof composition and making same. No. 1,327,289; Jan. 6; v. 270; p. 68.
Kierstead, Friend H., Pittsfield, Mass., assignor to General Electric Company. Variable-reactance reactor. No. 1,362,492; Dec. 14; v. 281; p. 342.
Kierstead, George J., Newark, N. J. Toy. No. 1,330,324; Feb. 10; v. 271; p. 214.
Kierstead, George J., and W. F. Gehrig, Newark, N. J. Toy pistol. No. 1,361,071; Dec. 7; v. 281; p. 18.
Kiesel, Walter C., College Park, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,330,474; Feb. 10; v. 271; p. 242.
Kiesel, William F., Jr., Altoona, Pa. Economizer for locomotives. No. 1,343,144; June 8; v. 275; p. 354.
Kiesel, William F., Jr., Altoona, Pa. Journal-box lid. No. 1,363,324; Dec. 28; v. 281; p. 601.
Kievell, John F., Hamilton, Ontario, Canada. Peel. No. 1,327,328; Jan. 6; v. 270; p. 83.
Kieves, Phillip, *et al.* (See Mallove, Morris, assignor.)
Kiewicz, John, assignor to The Reece Button Hole Machine Company, Boston, Mass. Sewing-machine. No. 1,338,873; Apr. 27; v. 273; p. 710.
Kiewicz, John, assignor to The Reece Button Hole Machine Company, Boston, Mass. Thread-trimmer for sewing-machines. No. 1,338,874; Apr. 27; v. 273; p. 710.
Kiewicz, John, assignor to The Reece Button Hole Machine Company, Boston, Mass. Driving and stopping mechanism. No. 1,344,345; June 22; v. 275; p. 717.
Kiewicz, John, assignor to The Reece Button Hole Machine Company, Boston, Mass. Buttonhole-sewing machine. No. 1,350,729; Aug. 24; v. 277; p. 678.
Kiewicz, John, assignor to The Reece Button Hole Machine Company, Boston, Mass. Sewing-machine. No. 1,352,280; Sept. 7; v. 278; p. 108.
Kiewicz, John, assignor to The Reece Button Hole Machine Company, Boston, Mass. Buttonhole-sewing machine. No. 1,358,855; Nov. 16; v. 280; p. 430.
Kiewicz, John, assignor to The Reece Button Hole Machine Company, Boston, Mass. Work-positioning device for buttonhole-sewing machines. No. 1,359,712; Nov. 23; v. 280; p. 641.
Kiewicz, John, assignor to The Reece Button Hole Machine Company, Boston, Mass. Sewing-machine. No. 1,361,871; Dec. 14; v. 281; p. 225.
Kijima, Kenji, Los Angeles, Calif. Fish-lure. No. 1,333,318; Mar. 9; v. 272; p. 268.
Kilbourn, William D., Pueblo, Colo., assignor to United States Smelting, Refining & Mining Company. Process and apparatus for smelting volatile ores. No. 1,358,856; Nov. 16; v. 280; p. 430.
Kilbourne and Jacobs Manufacturing Company, The. (See Burner, W. L., Cotton, and Booth, assignors.)
Kilbourne and Jacobs Manufacturing Company. (See Burner, William L., assignor.)
Kilbourne and Jacobs Manufacturing Company. (See Martin, C. C., and Cotton, assignors.)
Kilby, Frog and Switch Company. (See Yolton, Robert E., assignor.)
Kilby Manufacturing Company, The. (See Terhune, Howard, assignor.)
Kilgore, Charles F., Minneapolis, Minn. Tractor. No. 1,338,510; Apr. 27; v. 273; p. 735.
Kilgore, Thad S., and G. W. Wilson, Henderson, Iowa. Binder attachment. No. 1,357,711; Nov. 2; v. 280; p. 96.
Kilian, Ernst B., Highland Falls, N. Y. Plate-lifter. No. 1,341,371; May 25; v. 274; p. 718.
Kilisztoff, Petro, Mundare, Alberta, Canada. Automatic railway-gate. No. 1,344,766; June 29; v. 275; p. 865.
Kilkenny, Michael E., Portland, Oreg. Potato-harvester No. 1,333,493; Mar. 9; v. 272; p. 301.
Kill, Leonard, *et al.* (See Dobbins, George R., assignor.)
Killam, Benjamin F., and S. Schlesinger, Jr., Denver, Colo. Elastic shoe-lace. No. 1,358,753; Nov. 16; v. 280; p 409.
Killander, Axel, assignor to Whitehead Sales Co., Chicago, Ill. Band-saw guide. No. 1,357,328; Nov. 2; v. 280; p. 25.
Killen, Edward B., London, England. Pneumatic tire. No. 1,337,660; Apr. 20; v. 278; p. 505.
Killian, Baxter R., Centralia, Wash. Shock-absorber. No. 1,334,247; Mar. 16; v. 272; p. 503.
Killian, Baxter R., Centralia, Wash. Demountable rim. No. 1,360,760; Nov. 30; v. 280; p. 916.
Killinger, William E., and F. S. Stewart, Oklahoma, Okla. Broom and the like. No. 1,361,872; Dec. 14; v. 281; p. 225.
Killinger, William E., and F. S. Stewart, Oklahoma, Okla. Broom and the like. No. 1,361,873; Dec. 14; v. 281; p. 225.
Killion, Wesley W., Terre Haute, Ind. Combined table and book-stand. No. 1,345,197; June 29; v. 275; p. 947.
Killman, Emil. (See Ruhl, George W., assignor.)
Killman, Thomas A., assignor to International Moving Picture and Film Company, Nashville, Tenn. Panoramic-motion-picture apparatus. No. 1,347,103; July 20; v. 276; p. 471.
Killough, Charles H., Wichita, Kans. Wind-motor. No. 1,359,605; Nov. 23; v. 280; p. 620.
Kilmer, Otto H., and P. Madison, Oak Harbor, Ohio. Basket-nailing machine. No. 1,349,965; Aug. 17; v. 277; p. 482.
Kilminster, Stanley, Great Falls, Mont. Handle-holder. No. 1,333,494; Mar. 9; v. 272; p. 301.
Kilpatrick, Ralph O. (See Kilpatrick, William R. and R. O.)
Kilpatrick, William R. and R. O., Boise, Idaho. Nut-lock. No. 1,333,495; Mar. 9; v. 272; p. 302.
Kilroy, Willie D. (See Evershed, S., and Kilroy.)
Kilts, Frank, and L. A. Paradis, Chicago, Ill. Oxyacetylene cutting-machine for circular plates. No. 1,348,363; Aug. 3; v. 277; p. 46.
Kimack, Peter, St. Louis, Mo. Bumping-post. No. 1,354,662; Oct. 5; v. 279; p. 43.
Kimball, A., Company. (See Anthony, Marcus O., assignor.)
Kimball, A., Company. (See Heine Herman, assignor.)
Kimball, Clarence M. (See Parkinson and Kimball.)
Kimball, Earl H., assignor to Associated Manufacturers Company, Waterloo, Iowa. Internal-combustion engine. No. 1,339,517; May 11; v. 274; p. 287.
Kimball, John A., Taylorville, Ill. Handle for battery-boxes. No. 1,355,050; Oct. 5; v. 279; p. 119.
Kimball, Robert E., Cleveland, Ohi Set-back register. No. 1,352,973; Sept. 14; v. 278; 281.
Kimbark, Eugene U., Evanston, Ill. Fastening device. No. 1,336,629; Apr. 13; v. 273; p. 234.
Kimbark, Eugene U., Evanston, Ill. Envelop. No. 1,352,972; Sept. 14; v. 278; p. 281.
Kimbell, E. H. (See McDaniel, Guy S., assignor.)
Kimber, Harry A., New Rochelle, N. Y., assignor to Quigley Furnace Specialties Co., Inc. Blowing-tank for compressed-air transport systems. No. 1,348,010; July 27; v. 276; p. 708.
Kimber, Walter E., London, England. Drapery-curtain-pole fixture. No. 1,339,353; May 4; v. 274; p. 130.
Kimber, Walter E., London, England. Manufacture of tools for turning, boring, and similar purposes. No. 1,359,459; Nov. 16; v. 280; p. 546.
Kimberly Clark Company. (See Mahler, Ernst, assignor.)
Kimberly, John A., Jr., Albany, N. Y. Paper-roll holder. No. 1,331,931; Feb. 24; v. 271; p. 605.
Kimble, Austin, assignor to Marathon Electric & Manufacturing Co., Wausau, Wis. Dynamo-electric machine. No. 1,345,370; July 6; v. 276; p. 9.
Kimble, Austin, assignor to Marathon Electric Mfg. Company, Wausau, Wis. Centrifugal governor. No. 1,357,403; Nov. 2; v. 280; p. 39.
Kimble, Martin, Highland Park, Ill. Vehicle-drive. No. 1,351,292; Aug. 31; v. 277; p. 849.
Kimble, William B., Camden, N. J. Compositor's scale. No. 1,363,126; Dec. 21; v. 281; p. 522.
Kimbley, Charles M., Owensboro, Ky. Ditching and grading machine. No. 1,327,047; Jan. 6; v. 270; p. 32.
Kime, Benjamin J., assignor of one-fourth to R. R. Micks, Seneca Falls, N. Y. Centrifugal pump. No. 1,353,915; Sept. 28; v. 278; p. 570.
Kime, George F., Eldorado, Kans. Wagon-body. No. 1,328,999; Jan. 27; v. 270; p. 525.
Kimman, Henry J., Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, Chicago, Ill. Throttle-valve for fluid-pressure tools. No. 1,350,102; Aug. 17; v. 277; p. 508.
Kimmel, George C., assignor to The Cincinnati Grinder Company, Cincinnati, Ohio. Grinding-machine. No. 1,337,139; Apr. 13; v. 273; p. 332.
Kimmel, George C., assignor to The Cincinnati Grinder Company, Cincinnati, Ohio. Grinding-machine. No. 1,337,140; Apr. 13; v. 273; p. 332.
Kimmel, J. L. (See Kaylor, William, assignor.)
Kimmel, Roger Q. (See Procunier, Frank G., assignor.)
Kimmerl, Larned T. and D. S., San Francisco, Calif. Towing-dolly for vehicles. No. 1,346,712; July 13; v. 276; p. 335.
Kimmerle, Daniel S. (See Kimmerle, Larned T. and D. S.)

Digitized by Google

Kimmerly, Joseph W., Warren, Ariz. Switch. No. 1,358,160; Nov. 9; v. 280; p. 245.
Kimura, Kanesuke, Kobe, Japan. Preparing catalytic agent for hydrogenating hard oils. No. 1,327,396; Jan. 6; v. 270; p. 96.
Kinback, William J., Bethlehem, Pa. Water-motor. No. 1,350,025; Aug. 17; v. 277; p. 494.
Kincade, John M., Springfield, Ohio. Digging-machine. No. 1,341,138; May 25; v. 274; p. 673.
Kincaid, John, Vancouver, British Columbia, Canada. Impact and reaction water-wheel. No. 1,361,467; Dec. 7; v. 281; p. 99.
Kincaid, Thomas J., Wills, Wis. Wheeled rake. No. 1,328,156; Jan. 13; v. 270; p. 300.
Kincer, Joseph B., Washington, D. C. Vehicle-spring. No. 1,341,805; June 1; v. 275; p. 38.
Kinch, George E., Quirindi, New South Wales, Australia. Lid for closet-seats. No. 1,342,505; June 8; v. 275; p. 227.
Kinch, George E., Quirindi, New South Wales, Australia. Pan-closet cabinet. No. 1,343,830; June 15; v. 275; p. 552.
Kindervater, Julius, Closter, N. J. Connecting-rod. No. 1,347,104; July 20; v. 276; p. 471.
Kindig, Samuel C., assignor of one-half to W. C. Ludwig, Baltimore, Md. Broom-holder. No. 1,329,186; Jan. 27; v. 270; p. 560.
Kindle, Andrew H., Versailles, Mo. Dirigible headlight for automobiles. No. 1,348,425; Aug. 3; v. 277; p. 58.
Kinealy, John H., Ferguson, Mo. Kerosene-burner. No. 1,327,048; Jan. 6; v. 270; p. 32.
Kines, Laura, Detroit, Mich. Milk-bottle. No. 1,329,975; Feb. 3; v. 271; p. 118.
King, Albert E., Wanganui, New Zealand. Container-piercing and tank-filling machine. No. 1,337,558; Apr. 20; v. 273; p. 485.
King, Albert S. (See Swing, Alfred J., assignor.)
King, Alex, Richmond, Ky. Liquid-measure. No. 1,360,761; Nov. 30; v. 280; p. 916.
King, Alexander C. (See Le Cerf, Joseph E., assignor.)
King, Annie C., *et al.*, executrix. (See King, George H.)
King, Augustin A., Finchley, England. Electric torch. No. 1,358,639; Nov. 9; v. 280; p. 341.
King-Bee Spark Plug Company. (Reissue.) (See Gwynn, William A., assignor.)
King, Bert W., Detroit, Mich., assignor to Detroit Automatic Scale Company, Elkhart, Ind. Counting-scale. No. 1,330,593; Feb. 10; v. 271; p. 264.
King, Bert W., assignor to Detroit Automatic Scale Company, Detroit, Mich. Thermostatic device for scales. No. 1,348,225; Aug. 3; v. 277; p. 19.
King, Bert W., and A. C. Burkheiser, Detroit, Mich., assignors to Detroit Automatic Scale Company, Elkhart, Ind. Scale and thermostat therefor. No. 1,353,997; Sept. 28; v. 278; p. 587.
King, Bertell W., Brooklyn, N. Y. Means for inscribing unexposed photographic films, plates, or the like. No. 1,351,762; Sept. 7; v. 278; p. 9.
King, Charles, Mount Sterling, Ohio. Cattle-guard. No. 1,354,405; Sept. 28; v. 278; p. 670.
King, Charles F. L., Birmingham, England. Lifting-jack. No. 1,360,762; Nov. 30; v. 280; p. 916.
King, Charles H., Ithaca, N. Y. Valve. No. 1,340,719; May 18; v. 274; p. 522.
King, Charles V., Shenandoah, Pa. Jig for separating coal and like material from foreign matter. No. 1,360,116; Nov. 23; v. 280; p. 721.
King, Clifford G., Providence, R. I. Collapsible tube. No. 1,346,897; July 20; v. 276; p. 430.
King, F. W., Optical Company, The. (See King, Louise C., assignor.)
King, Edward, Lackawanna, assignor of one-half to J. Lynch, Buffalo, N. Y. Dirigible-lamp mechanism for automobiles. No. 1,361,468; Dec. 7; v. 281; p. 99.
King, Edward M., Elida, Ohio. Game apparatus. No. 1,352,517; Sept. 14; v. 278; p. 190.
King, Elgin M., Niagara Falls, N. Y. Multiple-fuse plug. No. 1,336,238; Apr. 6; v. 273; p. 101.
King, Ernest J. (See Lillard, William W., assignor.)
King, Frederick W. and W. G., assignors to Julius King Optical Co., New York, N. Y. Respirator. No. 1,359,073; Nov. 16; v. 280; p. 471.
King, George H., deceased; A. C. King, executrix, and W. R. Bickle, executor, Woodstock, Ontario, Canada. Condensation-return trap for heating systems. No. 1,362,424; Dec. 14; v. 281; p. 334.
King, George S., Bay Shore, N. Y. Heater for automobiles. No. 1,363,880; Dec. 28; v. 281; p. 708.
King, Gustave A., Chicago, Ill. Toy. No. 1,340,394; May 18; v. 274; p. 460.
King, James B. (See Hughes, W. E., and King.)
King, James D., Meridian, Miss. Safety attachment for railway-cars. No. 1,344,231; June 22; v. 275; p. 694.
King, James D., Meridian, Miss. Safety attachment for railway-cars. No. 1,344,232; June 22; v. 275; p. 694.
King, James G., and J. E. Hefferman, Superior, Wis. Calligraphic device. No. 1,361,874; Dec. 14; v. 281; p. 226.
King, John, Valparaiso, Chile. Automatic buffer-coupling for railway-vehicles. No. 1,335,061; Mar. 30; v. 272; p. 764.
King, Joseph M., Detroit, Mich. Internal-combustion engine. No. 1,361,072; Dec. 7; v. 281; p. 18.
King, Lewis G., Deposit, N. Y. Air-pump connector for automobiles. No. 1,344,539; June 22; v. 275; p. 756.
King Lock Company, The. (See Baird, Edward P., assignor.)
King, Louise C., assignor to The F. W. King Optical Company, Cleveland, Ohio. Goggles. No. 1,335,508; Mar. 30; v. 272; p. 847.
King, Malcolm. (See Knight, Herbert, assignor.)
King, Martin, *et al.* (See Russell, Robert A., assignor.)
King, Matthew L., Des Moines, Iowa. Building-block. No. 1,350,656; Aug. 24; v. 277; p. 663.
King, Paul E., Tampa, Fla. Coating composition. No. 1,360,226; Nov. 23; v. 280; p. 843.
King, Percival F. (See Benoit, L., and King.)
King, Percival F., Vancouver, British Columbia, Canada. Hospital-mattress. No. 1,341,564; May 25; v. 274; p. 756.
King, Percival F., Vancouver, British Columbia, Canada. Umbrella. No. 1,349,281; Aug. 10; v. 277; p. 276.
King, Percival F., Vancouver, British Columbia, Canada. Wrench. No. 1,354,494; Oct. 5; v. 279; p. 9.
King, Richard J., Walthamstow, assignor to A. Howarth, Finchley, England. Metal girder-like structure. No. 1,363,127; Dec. 21; v. 281; p. 522.
King, Robert J., Stamford, Conn. Producing chloropicrin. No. 1,327,714; Jan. 13; v. 270; p. 217.
King, Roy D., assignor of one-half to J. Nelson, Chicago, Ill. Spring-die cushion. No. 1,352,911; Sept. 7; v. 278; p. 40.
King, Rufus, Plainville, assignor to Bugbee and Niles Company, North Attleboro, Mass. Slide for buckles or clasps. No. 1,329,085; Jan. 27; v. 270; p. 541.
King Sewing Machine Company. (See Smallbone, Harry E., assignor.)
King, Stewart B., Highlands, N. J. Skiff. No. 1,352,753; Sept. 14; v. 278; p. 238.
King, Thomas W., Long Island City, N. Y. Combined dress-suit case and locker. No. 1,344,408; June 22; v. 275; p. 729.
King, W. C. (See Freeman, John W., assignor.)
King, Walter G. (See King, Frederick W., and W. G.)
King, Walter N., Colorado Springs, Colo. Hydrant shut-off. No. 1,327,283; Jan. 6; v. 270; p. 75.
King, Willis R. (See Todd, E. N., and King.)
Kingkinney, Lucius A., Centralia, Wash., assignor to W. A. Carlisle, Onalaska, Wash. Briquet and binder for same. No. 1,359,074; Nov. 16; v. 280; p. 471.
Kingsbury, Albert. (See Howarth, Harry A. S., assignor.)
Kingsbury, Albert, Pittsburgh, Pa. Thrust-bearing. No. 1,349,157; Aug. 10; v. 277; p. 251.
Kingsbury, Albert, Pittsburgh, Pa. Horizontal thrust-bearing. (Reissue.) No. 14,878; June 8; v. 275; p. 363.
Kingsbury, Albert, Pittsburgh, Pa. Bearing. No. 1,361,073; Dec. 7; v. 281; p. 18.
Kingsbury, Alvin C., Gig Harbor, Wash. Automatic air-pressure control. No. 1,336,301; Apr. 6; v. 273; p. 112.
Kingsbury, Edward J. (See Kingsbury, Harry T. and E. J.)
Kingsbury, Edward J., Keene, N. H. Toy tractor. No. 1,350,026; Aug. 17; v. 277; p. 494.
Kingsbury, Edward J., New York, N. Y. Alloy for electric welding. No. 1,350,317; Aug. 24; v. 277; p. 596.
Kingsbury, Edward J. and H. T., Keene, N. H. Toy aeroplane. No. 1,347,814; July 27; v. 276; p. 668.
Kingsbury, Harry T. (See Kingsbury, E. J. and H. T.)
Kingsbury, Harry T. and E. J., Keene, N. H. Toy boat. No. 1,335,900; Apr. 6; v. 273; p. 37.
Kingsbury, Harry T. and E. J. Keene, N. H. Toy boat. No. 1,340,614; May 18; v. 274; p. 502.
Kingsbury, Harry T. and E. J., Keene, N. H. Portable baby-swing. No. 1,361,469; Dec. 7; v. 281; p. 99.
Kingsbury, John M., New York, N. Y. Fluid-flow-control mechanism. No. 1,346,898; July 20; v. 276; p. 431.
Kingsford, Walter E., Weatherford, Tex. Adjustable foot-rest. No. 1,337,919; Apr. 20; v. 273; p. 555.
Kingsland Research Syndicate, The. (See Torazzi, M. F., and Knoph, assignors.)
Kingswell, Percy N., trustee. (See Roberts, Richard H., assignor.)
Kinikin, John L., Garden City, Kans. Self-adjusting curtain-draper. No. 1,344,233; June 22; v. 275; p. 695.
Kinkead, Robert E., assignor to The Lincoln Electric Company, Cleveland, Ohio. Arc-welding electrode. No. 1,329,530; Feb. 3; v. 271; p. 35.
Kinkel, Gustavus A., Buffalo, N. Y. Pie-pan. No. 1,343,395; June 15; v. 275; p. 466.
Kinley, Oren W., Des Moines, Iowa. Spark-gap. No. 1,342,816; June 8; v. 275; p. 289.
Kinnaird, Robert S., assignor to Hide Leather & Belting Company, Indianapolis, Ind. Friction-facing on transmission-belting. No. 1,341,470; May 25; v. 274; p. 738.
Kinnard, Robert M., Trenton, N. J. Toy. No. 1,347,384; July 20; v. 276; p. 526.
Kinne, Edmund P., Alliance, Ohio, assignor to American Steel Foundries, Chicago, Ill. Coupling mechanism. No. 1,356,209; Oct. 19; v. 279; p. 440.

Digitized by Google

Kinne, Edmund P., Alliance, Ohio, assignor to American Steel Foundries, Chicago, Ill. Coupling mechanism. No. 1,356,210; Oct. 19; v. 279; p. 440.
Kinnear, Harry B., Massillon, and A. J. Townsend, Canton, Ohio. Furnace. No. 1,339,564; May 11; v. 274; p. 246.
Kinnear Manufacturing Company, The. (See Brunst, William M., assignor.)
Kinnear Manufacturing Company. (See McCloud, Edward H., assignor.)
Kinnear Manufacturing Company, The. (See Rush, Albert, assignor.)
Kinney, Charles, assignor of one-half to L. M. Ostrander, Elmira, N. Y. Tractor. No. 1,341,181; May 25; v. 274; p. 681.
Kinney, Charles, assignor of one-half to L. M. Ostrander, Elmira, N. Y. Plow. No. 1,341,182; May 25; v. 274; p. 682.
Kinney, Charles, assignor of one-half to L. M. Ostrander, Elmira, N. Y. Tractor. No. 1,360,957; Nov. 30; v. 280; p. 954.
Kinney, Charles S., Cincinnati, Ohio. Tobacco-sorter's bracket. No. 1,331,268; Feb. 17; v. 271; p. 459.
Kinney, Grayson T. (See Morgan, M. B., Collins, and Kinney.)
Kinney, J. Stanley. (See Conrad, F., and Kinney.)
Kinney, Norton W., Haverhill, Mass. Self-oiling metal bearing. No. 1,346,377; July 13; v. 276; p. 268.
Kinney, Thaddeus, assignor of one-half to J. Garlock, Milwaukee, Wis. Nut. No. 1,339,113; May 4; v. 274; p. 87.
Kinney, William L., and W. E. Cagle, Houston, Tex. Machine for extracting liquid from pulpous material. No. 1,330,711; Feb. 10; v. 271; p. 286.
Kinoshita, Yokichi, Boston, Mass. Thumb-tack. No. 1,338,988; May 4; v. 274; p. 62.
Kinraide, Thomas B., Boston, Mass. Apparatus for forming a smooth surface on metal while being milled. No. 1,336,239; Apr. 6; v. 273; p. 101.
Kinsel, Arthur V., Los Angeles, Calif. Spark-plug. No. 1,349,158; Aug. 10; v. 277; p. 252.
Kinsey, W. L., *et al.* (See Maguire, Forrest R., assignor.)
Kinsley, Lewis. (See Mott and Kinsley.)
Kinsley, Richard F., East Cleveland, Ohio, assignor to The Mechanical Rubber Company. Material for reinforcing rubber articles and making same. No. 1,343,368; June 15; v. 275; p. 461.
Kinsman, Clarence W., assignor of two-thirds to H. H. Kinsman, New York, N. Y. Perforated utensil-cover. No. 1,328,001; Jan. 13; v. 270; p. 271.
Kinsman, Frank E., Leominster, Mass. Food product and making same. No. 1,344,638; June 29; v. 275; p. 841.
Kinsman, Hermon H. (See Kinsman, Clarence W., assignor.)
Kintner, Samuel M., *et al.*, receivers. (See Hogan, John L., Jr., assignor.)
Kintsel, Eric S., Raton, N. Mex. Pencil-holder. No. 1,327,762; Jan. 13; v. 270; p. 226.
Kintzing, Reese T., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Motor-control system. No. 1,341,650; June 1; v. 275; p. 7.
Kintzing, Reese T., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Switch mechanism. No. 1,358,754; Nov. 16; v. 280; p. 410.
Kintzing, Reese T., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Motor-control system. No. 1,360,300; Nov. 30; v. 280; p. 826.
Kinzel, George F., West Orange, N. J. Cooking utensil. No. 1,334,908; Mar. 23; v. 272; p. 675.
Kinzel, George W. (See Ray, Albert D., assignor.)
Kipp, George E., assignor of one-fourth to R. J. Kipp, one-fourth to C. H. Winslow, and one-fourth to P. T. Winslow, Niverville, N. Y. Shut-off device for carbureters and the like. No. 1,348,226; Aug. 3; v. 277; p. 19.
Kipp, J. G., guardian. (See Le Pontois, L. J.)
Kipp, Robert J., *et al.* (See Kipp, George E., assignor.)
Kipper, Herman B., Muskegon, Mich. Protecting metal heated to a high temperature against oxidation. No. 1,358,161; Nov. 9; v. 280; p. 246.
Kirby, Champeau Company. (See Champeau, Lawrence X., assignor.)
Kirby, James B., Cleveland, Ohio. Washing-machine. No. 1,337,453; Apr. 20; v. 273; p. 466.
Kirby, James B., Cleveland, Ohio. Pump. No. 1,347,512; July 27; v. 276; p. 608.
Kirby, James B., Cleveland, Ohio. Clutch. No. 1,362,011; Dec. 14; v. 281; p. 254.
Kirby, James B., Cleveland, Ohio, assignor to Electric Vacuum Cleaner Company, Inc. Brush and making same. No. 1,333,663; Mar. 16; v. 272; p. 394.
Kirby, James B., Cleveland, Ohio, assignor to Electric Vacuum Cleaner Company, Inc. Suction-cleaner. No. 1,347,166; July 20; v. 276; p. 483.
Kirby, James B., Cleveland, Ohio, assignor to Electric Vacuum Cleaner Company, Inc. Suction-cleaner. No. 1,347,167; July 20; v. 276; p. 483.
Kirby, James W., Clarksburg, W. Va. Fruit-picker's platform. No. 1,362,944; Dec. 21; v. 281; p. 486.
Kirby, John F. (See Dougherty, B., and Kirby.)
Kirby, William, assignor to South Metropolitan Gas Company, London, England. Purification of carbazole. No. 1,348,722; Aug. 3; v. 277; p. 114.
Kirchhoff, Hugo, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Percussion-fuse for projectiles. No. 1,356,633; Oct. 26; v. 279; p. 568.
Kirchner, Arthur W., assignor of one-half to G. J. Pille, Denver, Colo. Running-board and fender-support for automobiles. No. 1,337,078; Apr. 13; v. 273; p. 321.
Kirchner, Henry W., assignor to River and Rail Transportation Company, St. Louis, Mo. Interchangeable-unit car. No. 1,349,209; Aug. 10; v. 277; p. 261.
Kirchner, Henry W., assignor to River and Rail Transportation Company, St. Louis, Mo. Interchangeable-unit car. No. 1,360,412; Nov. 30; v. 280; p. 847.
Kirchner, Otto H. (See Doran, F., and Kirchner.)
Kirchner, Reinhold, Mobile, Ala. Building-protector. No. 1,344,540; June 22; v. 275; p. 756.
Kirchner, Wilhelm, Stettin, Germany. Rapid-file letter-file or document-holder. No. 1,330,270; Feb. 10; v. 271; p. 204.
Kirino, Charles, Ogden, Utah. Machine for peeling tomatoes. No. 1,347,385; July 20; v. 276; p. 527.
Kiriyama, Hisataro, *et al.* (See Kojima, Edward M., assignor.)
Kirk, Benjamin K. (See Deans, F. B., and Kirk.)
Kirk, Charles J., New Castle, Pa. Sherardizing apparatus. No. 1,327,102; Jan. 6; v. 270; p. 42.
Kirk, Charles J., New Castle, Pa. Heat-treating furnace. No. 1,332,501; Mar. 2; v. 272; p. 63.
Kirk, Charles J., New Castle, Pa. Heat-treating furnace. No. 1,337,454; Apr. 20; v. 273; p. 466.
Kirk, George D., Milford, Conn. Meat-hook. No. 1,333,424; Mar. 9; v. 272; p. 288.
Kirk, George W. (See Jeffries, Oscar S., Sr., assignor.)
Kirk Latty Manufacturing Company, The. (See Sleffel, William J., assignor.)
Kirk, Robert H., Newcastle-upon-Tyne, England. Mold for plastic and similar substances. No. 1,345,932; July 6; v. 276; p. 120.
Kirk, Thomas S. (See Pringle, A., and Kirk.)
Kirk, Walter I. (See Jefferson, B. H., and Kirk.)
Kirk, Walter I., assignor to Lyon & Healy, Chicago, Ill. Tuning-fork. No. 1,328,838; Jan. 27; v. 270; p. 494.
Kirk, Walter I., assignor to Lyon & Healy, Chicago, Ill. Trunk for harps or like instruments. No. 1,352,814; Sept. 14; v. 278; p. 250.
Kirkbride, Donald K. (See Kirkbride, Oliver B., assignor.)
Kirkbride, Oliver B., assignor of one-fourth to D. K. Kirkbride, Minneapolis, Minn. Nut and bolt lock. No. 1,335,901; Apr. 6; v. 273; p. 87.
Kirke, Percy S., Westminster, London, England. Steam-superheater. No. 1,335,974; Apr. 6; v. 273; p. 51.
Kirkendall, Wilber R., and G. C. Wood, Salina, Kans. Attachment for folding music-stands. No. 1,359,811; Nov. 23; v. 280; p. 651.
Kirkham, Charles B., assignor, by mesne assignments, to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Aeronautical motor. No. 1,336,704; Apr. 13; v. 273; p. 249.
Kirkham, Charles B., assignor to Curtiss Aeroplane and Motor Corporation, Garden City, N. Y. Lubrication of internal-combustion engines. No. 1,349,676; Aug. 17; v. 277; p. 427.
Kirkham, Charles B., assignor to Curtiss Aeroplane & Motor Corporation, Buffalo, N. Y. Aeronautical motor. No. 1,351,763; Sept. 7; v. 278; p. 9.
Kirkham, Charles B., Garden City, N. Y., assignor, by mesne assignments, to Curtiss Aeroplane and Motor Corporation. Lubricating pump. No. 1,363,793; Dec. 28; v. 281; p. 691.
Kirkham, Charles B., Garden City, and A. L. Thurston, Jamaica, N. Y., assignors, by mesne assignments, to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Control mechanism. No. 1,363,794; Dec. 28; v. 281; p. 692.
Kirkman, M. L., and F. S. Wier; said Wier assignor to said Kirkman, Richmond, Ind. Lubricating system. No. 1,354,663; Oct. 5; v. 279; p. 44.
Kirkpatrick, Amandus J., Altoona, Pa. Burglar-proof structure. No. 1,330,475; Feb. 10; v. 271; p. 242.
Kirkpatrick, Frank M., assignor of one-third to J. Peterson and one-third to C. Boetcher, Adams, Wis. Railway-switch. No. 1,331,868; Feb. 24; v. 271; p. 594.
Kirkpatrick, George W., Rochester, N. Y. Guard for digging implements. No. 1,336,630; Apr. 13; v. 273; p. 235.
Kirkpatrick, Gladys L., assignor of one-half to J. E. Robbins, Greensburg, Ind. Boy's pants. No. 1,353,480; Sept. 21; v. 278; p. 440.
Kirkpatrick, Littleton, Bellevue, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Coating fabrics. No. 1,360,763; Nov. 30; v. 280; p. 916.
Kirkpatrick, Monroe C., Files Valley, assignor of one-fourth to T. Kirkpatrick and one-fourth to W. M. Shippey, Ellis County, Tex. Air-supply-valve attachment. No. 1,349,210; Aug. 10; v. 277; p. 262.
Kirkpatrick, Orville H., Lewellen, Nebr. Road-grading machine. No. 1,332,502; Mar. 2; v. 272; p. 68.

Digitized by Google

Kirkpatrick, Otey R., Fort Worth, Tex. Wrench. No. 1,356,923; Oct. 26; v. 279; p. 626.
Kirkpatrick, Robert J., S. M. Swordling, and W. P. Heath, Spokane, Wash. Ice-cream-freezing process. No. 1,329,246; Jan. 27; v. 270; p. 571.
Kirkpatrick, Thomas E., Elkhart, Ind., and G. E. Beck, Cleveland, Ohio. Conduit-support. No. 1,332,503; Mar. 2; v. 272; p. 63.
Kirkpatrick, Tim, *et al.* (See Kirkpatrick, Monroe C., assignor.)
Kirkpatrick, William, and W. Wiegner, San Francisco, Calif. Coaster. No. 1,327,240; Jan. 6; v. 270; p. 68.
Kirkpatrick, William A., Seattle, Wash. Wrench. No. 1,344,234; June 22; v. 275; p. 695.
Kirksey, John G., Seattle, Wash. Sizing apparatus. No. 1,338,227; Apr. 27; v. 278; p. 682.
Kirkwood, William, Chicago, Ill. Liquid-transferring apparatus. No. 1,334,542; Mar. 23; v. 272; p. 605.
Kirpatrick, Orson F., South English, Iowa. Muffler cut-out. No. 1,351,173; Aug. 31; v. 277; p. 825.
Kirsch, Frederick M., assignor to National Tank and Pipe Company, Portland, Oreg. Tank. No. 1,329,414; Feb. 3; v. 271; p. 13.
Kirschke, Oscar R., Grand Island, Nebr. Sand-strainer. No. 1,360,301; Nov. 30; v. 280; p. 826.
Kirschmann, Mary A., Philadelphia, Pa. Rigid hand-grip for cars. No. 1,350,657; Aug. 24; v. 277; p. 663.
Kirsh, Hugh L., Beaver Dam, Wis. Fittings for molding plants. No. 1,352,815; Sept. 14; v. 278; p. 250.
Kirstein, E. Sons Company. (See Day, George H., assignor.)
Kirstein, E., Sons Company. (See McDonell, William E., assignor.)
Kirstin, A. J., Company. (See Gorman, John F., assignor.)
Kiser, Chester E. (See Kennedy, T., and Kiser.)
Kish, Frank, Elyria, Ohio. Resilient shoe-heel lift. No. 1,333,983; Mar. 16; v. 272; p. 454.
Kish, Joseph, Johnstown, Pa. Clothesline-holder. No. 1,354,109; Sept. 28; v. 278; p. 611.
Kiss, James. (See Bachardy, S. J., and Kiss.)
Kiss, Joseph, and J. R. McGee. Milwaukee, Wis. Automatic railway-gate. No. 1,356,924; Oct. 26; v. 279; p. 626.
Kiss, Joseph, assignor of one-half to J. R. McGee, Milwaukee, Wis. Automatic stop for railway-vehicles. No. 1,331,157; Feb. 17; v. 271; p. 489.
Kissel, Michael J., Trenton, N. J. Mail-bag-transferring device. No. 1,338,228; Apr. 27; v. 273; p. 683.
Kissell, Isaac J., assignor of one-half to A. V. Smith, Colorado Springs, Colo. Circuit-closer for automobile-signals. No. 1,341,372; May 25; v. 274; p. 719.
Kissinger, George A., Alhambra, Calif. Cold-chisel. No. 1,336,631; Apr. 13; v. 273; p. 235.
Kissinger, George A., San Gabriel, Calif. Cold-chisel. No. 1,343,323; June 15; v. 275; p. 451.
Kister, Jake, Hastings, Nebr. Valve-lifter. No. 1,357,097; Oct. 26; v. 279; p. 660.
Kistler, Leo, New York, N. Y. Crutch. No. 1,329,775; Feb. 3; v. 271; p. 80.
Kitaoka, Toraki, Los Angeles, Calif. Detachable can-funnel. No. 1,344,801; June 29; v. 275; p. 872.
Kitaoka, Toraki, Los Angeles, Calif. Can funnel and spout. No. 1,354,110; Sept. 28; v. 278; p. 611.
Kitaoka, Nobuchika, Tottori-Ken, assignor to S. Nishitani, Tokyo, Japan. Injection-syringe. No. 1,363,128; Dec. 21; v. 281; p. 522.
Kitchen, Ernest B., and J. D. Price, White Post, Va. Attachment for boats. No. 1,331,202; Feb. 17; v. 271; p. 447.
Kitchen, Joseph M. W., East Orange, N. J. Fuel feeding and combustion control. No. 1,331,774; Feb. 24; v. 271; p. 575.
Kite, Lawrence W., Barberton, Ohio. Automatic electric railway block-signal system. No. 1,327,329; Jan. 6; v. 270; p. 83.
Kitselman, Alva L., Muncie, Ind. Wire-fabric machine. No. 1,353,346; Sept. 21; v. 278; p. 413.
Kitson, Lawrance E. (See Hayes, T. R., and Kitson.)
Kitson, Thomas B., Leeds, England. Furnace. No. 1,343,457; June 15; v. 275; p. 477.
Kitsteiner, Jr., John J., Cleveland, Ohio. Scaffold. No. 1,349,426; Aug. 10; v. 277; p. 305.
Kitt, William C., Cincinnati, Ohio. Box. No. 1,329,531; Feb. 3; v. 271; p. 35.
Kitt, William C., Cincinnati, Ohio. Box. No. 1,345,784; July 6; v. 276; p. 90.
Kittel, George P., Weehawken, N. J. Hydrocarbon-burner. No. 1,330,635; Feb. 10; v. 271; p. 272.
Kitterman, Alexander, Portland, Oreg. Roundabout sailing apparatus. No. 1,357,995; Nov. 9; v. 280; p. 213.
Kitterman, Jesse C. (See Watson, R. B., and Kitterman.)
Kittredge, David, administrator. (See Kittredge, Everett E. and D.)
Kittredge, Everett E., deceased, Montreal, Quebec, Canada; D. Kittredge, administrator. Stabilizing apparatus for aeroplanes and the like. No. 1,334,615; Mar. 23; v. 272; p. 619.
Kittredge, John W., Akron, Ohio. Tooth construction for digging-buckets. No. 1,333,852; Mar. 16; v. 272; p. 429.
Kivlan, John L., Boston, Mass. Jar-rack. No. 1,348,807; Aug. 3; v. 277; p. 130.
Kivlan, John L., Boston, Mass. Canning process. No. 1,348,808; Aug. 3; v. 277; p. 130.
Kivlan, John L., Boston, Mass. Jar-lifter. No. 1,360,227; Nov. 23; v. 280; p. 743.
Kjellgren, John G., assignor to The Electric Railway Improvement Company, Cleveland, Ohio. Rheostat. No. 1,348,809; Aug. 3; v. 277; p. 130.
Klaiber, Maximilian, Brooklyn, N. Y., assignor to Auto Slyde & Moving Picture Machine Co., Inc. Stereoptican apparatus. No. 1,349,725; Aug. 17; v. 277; p. 437.
Klasing, Augustus F., assignor of one-half to F. J. Stolpe, Chicago, Ill. Brake apparatus. No. 1,348,282; Aug. 3; v. 277; p. 80.
Klatt, Herman, Pueblo, Colo. Automobile-signal. No. 1,351,662; Aug. 31; v. 277; p. 923.
Klauber, Laurence M., assignor of one-half to San Diego Consolidated Gas & Electric Company, San Diego, Calif. Repeating fuse apparatus. No. 1,352,816; Sept. 14; v. 278; p. 251.
Klauber, Laurence M., assignor of one-half to San Diego Consolidated Gas & Electric Company, San Diego, Calif. Wishbone cross-arm construction for transmission-poles. No. 1,359,509; Nov. 23; v. 280; p. 601.
Klauberg, Charles, New York, N. Y. Gas-heater. No. 1,357,329; Nov. 2; v. 280; p. 25.
Klauder-Weldon Dyeing Machine Company, The. (See Going, William J., assignor.)
Klaus, Fred R., assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Wire-wheel rim and making same. No. 1,336,965; Apr. 13; v. 273; p. 299.
Klay, Albert, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Ringing and listening key. No. 1,333,117; Mar. 9; v. 272; p. 231.
Klay, Menno, Mount Hope, Ohio. Rotary internal-combustion engine. No. 1,349,512; Aug. 10; v. 277; p. 322.
Kleckler, Frank G., Bath, N. Y. Belt-shifter. No. 1,354,406; Sept. 28; v. 278; p. 670.
Kleckler, Henry. (See Curtiss, G. H., and Kleckler.)
Kleckler, Henry, Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Aeroplane construction. No. 1,329,342; Jan. 27; v. 270; p. 588.
Kleckler, Henry, Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Aeroplane-control mechanism. No. 1,336,632; Apr. 13; v. 273; p. 235.
Kleckler, Henry, Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Landing-gear for aircraft. No. 1,336,633; Apr. 13; v. 273; p. 235.
Kleckler, Henry, Garden City, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Flying-boat. No. 1,336,634; Apr. 13; v. 273; p. 235.
Kleckler, Henry, Garden City, assignor, by mesne assignments, to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Strut-fitting. No. 1,349,677; Aug. 17; v. 277; p. 427.
Kleckler, Henry, Hempstead, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Airplane. No. 1,336,405; Apr. 6; v. 273; p. 132.
Kleckler, Henry, assignor to Curtiss Aeroplane & Motor Corporation, Hempstead, N. Y. Hoisting connection for airplanes. No. 1,351,764; Sept. 7; v. 278; p. 10.
Kleeman, Karl M. (See Gentile, Frank T., assignor.)
Kleidman, Joseph, New York, N. Y. Bag. No. 1,338,875; Apr. 27; v. 273; p. 710.
Kleidman, Joseph, New York, N. Y. Aeroplane. No. 1,340,450; May 18; v. 274; p. 471.
Klein, Benjamin, New York, N. Y. Amusement device. No. 1,336,082; Apr. 6; v. 273; p. 71.
Klein, Carl, Wichita, Kans. Metallic fenceposts. No. 1,351,912; Sept. 7; v. 278; p. 40.
Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Attachment-plug. No. 1,352,817; Sept. 14; v. 278; p. 251.
Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric switch. No. 1,353,124; Sept. 14; v. 278; p. 310.
Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Lamp-socket. No. 1,357,404; Nov. 2; v. 280; p. 39.
Klein, Fred J. (See Grant, James W., assignor.) (Reissue.)
Klein, Frederick. (See Penso, M. E., and Klein.)
Klein, Frederick, New York, assignor to National Indicator Company, Long Island City, N. Y. Bobbin-carrier for braiding-machines. No. 1,358,216; Nov. 9; v. 280; p. 256.
Klein, Harry H., New York, N. Y. Hair-curler. No. 1,356,531; Oct. 26; v. 279; p. 549.
Klein, Jozef, New York, N. Y. Brazing and welding compound and preparing same. No. 1,349,966; Aug. 17; v. 277; p. 483.
Klein, Mathias J., assignor of sixty one-hundredths to H. B. Roelker, New York, N. Y. Side-force and danger indicator. No. 1,356,823; Oct. 26; v. 279; p. 606.
Klein, Otto, Paterson, N. J. Target. No. 1,342,022; June 1; v. 275; p. 80.
Klein, Philip, and H. Humphrey, Mansfield, Ohio. Detachable spring-hinge. No. 1,347,386; July 20; v. 276; p. 527.
Kleinbach, H. Richard, *et al.* (See Anderson, Chester H., assignor.)

Digitized by Google

Kleine, Elisee E., Rosthern, Saskatchewan, Canada. Device for washing photos. No. 1,348,881; Aug. 10; v. 277; p. 197.
Kleine, Harry A., Jersey City Heights, N. J. Auto-license indicating device. No. 1,342,850; June 8; v. 275; p. 296.
Kleine, Robert, Chicago, Ill. Radiator-core. No. 1,352,068; Sept. 7; v. 278; p. 69.
Kleinert, I. B., Rubber Company. (See Freeman, Rufus A., assignor.)
Kleinert, I. B., Rubber Company. (See Guinzburg, George K., assignor.)
Kleinert, I. B., Rubber Company. (See Guinzburg, Victor, assignor.)
Kleinert, I. B., Rubber Company. (See Zwicke, Martin, assignor.)
Kleinfeldt, Edward H., New York, N. Y. Wall construction. No. 1,362,327; Dec. 14; v. 281; p. 315.
Kleinshrot, Albert, Cleveland, Ohio. Tire-protector. No. 1,347,513; July 27; v. 276; p. 608.
Kleinsmith, Frederick, Indianapolis, Ind. Automobile-door latch. No. 1,348,882; Aug. 10; v. 277; p. 197.
Kleinsmith, Frederick, Indianapolis, Ind. Spring-leaf oiler. No. 1,351,174; Aug. 31; v. 277; p. 825.
Kleist, Herman W., assignor to Ideal Refrigerating Machine Company, Chicago, Ill. Combined condenser and receiver for refrigerator systems. No. 1,359,460; Nov. 16; v. 280; p. 547.
Klema, Joseph N., Austin, Minn. Lantern. No. 1,335,841; Apr. 6; v. 273; p. 26.
Klema, Joseph N., Austin, Minn. Lantern. No. 1,348,810; Aug. 3; v. 277; p. 130.
Klemm, Emil J., *et al.* (See Norwood, Harry G., assignor.)
Klemm, Emil R., Chicago, Ill. Antiskid-chain. No. 1,338,087; Apr. 27; v. 273; p. 656.
Klemme, Ernst F., Milwaukee, Wis. Water-closet ventilator. No. 1,351,854; Sept. 7; v. 278; p. 28.
Klenck, John H., Warren, Pa. Camera-shutter. No. 1,329,714; Feb. 3; v. 271; p. 69.
Klenck, John H., Warren, Pa. Camera-shutter. No. 1,329,715; Feb. 3; v. 271; p. 69.
Klenke, August C., Berkeley, Calif. Toy vehicle. No. 1,345,092; June 29; v. 275; p. 927.
Klenke, August C., Berkeley, assignor of one-half to B. L. Benson, and one-half to J. J. O. Winks, San Francisco, Calif. Clip. No. 1,337,607; Apr. 20; v. 273; p. 495.
Klepac, Joseph, and J. Kvarda, New York, N. Y. Recording device. No. 1,333,984; Mar. 16; v. 272; p. 454.
Klepper, John H., Bellefonte, Ark. Seat-brace. No. 1,358,561; Nov. 9; v. 280; p. 326.
Kletschka, Emil V., Minneapolis, Minn. Crib. No. 1,348,426; Aug. 3; v. 277; p. 59.
Klever, Archie, Hannibal, Mo. Spark-plug. No. 1,340,899; May 25; v. 274; p. 627.
Klever, Helmut, L. C. Lautenschläger, and O. H. Göhring, Karlsruhe, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Manufacturing lubricating-oils. No. 1,350,814; Aug. 24; v. 277; p. 694.
Klewanich, John, Royalton, Ill. Switch-point-actuating mechanism. No. 1,362,629; Dec. 21; v. 281; p. 425.
Kleyensteuber, Harry M. S., Birmingham, Ala. Pipe-core machine. No. 1,349,383; Aug. 10; v. 277; p. 296.
Kliavin, Rudolph. (See Dmitrieff, Vasily N., assignor.)
Kliemant, Robert M., Baltimore, Md. Toy gun. No. 1,357,061; Oct. 26; v. 279; p. 653.
Kliewer, Edward A., Tolar, Tex. Overshot fishing-tool. No. 1,337,476; Apr. 20; v. 273; p. 470.
Klimm, Frank J. (See Lyman, F. T., and Klimm.)
Klindt, Irving, Round Mountain, Nev. Concentrating-table. No. 1,360,764; Nov. 30; v. 280; p. 917.
Kline, Charles D., Cleveland, Ohio. Light-shade. No. 1,329,187; Jan. 27; v. 270; p. 561.
Kline, Clarence A., San Francisco, Calif. Sizing device for eyeglass-rims. No. 1,327,330; Jan. 6; v. 270; p. 84.
Kline, Clarence A., San Francisco, Calif. Folding auto-bed. No. 1,356,154; Oct. 19; v. 279; p. 428.
Kline Company, The. (See Barber, William J., assignor.)
Kline, Ephraim G., Millerstown, Pa. Rim construction. No. 1,329,976; Feb. 3; v. 271; p. 118.
Kline, Eugene F. (See Cory, Harvey, assignor.)
Kline, Fred J., New York, N. Y. Paper-fastener. No. 1,363,881; Dec. 28; v. 281; p. 709.
Kline, George L., St. Louis, Mo. Auto-chassis. No. 1,347,337; July 20; v. 296; p. 517.
Kline, Harmon J., Detroit, Mich. Internal-combustion engine. No. 1,360,958; Nov. 30; v. 280; p. 954.
Kline, Harry L., Portland, Oreg. Rotary internal-combustion engine. No. 1,341,854; June 1; v. 275; p. 47.
Kline, James A., York, Pa., assignor, by mesne assignments, to L. V. Flechter & Company. Carbureter. No. 1,340,720; May 18; v. 274; p. 522.
Kline, Nick W., Los Angeles, Calif. Truss. No. 1,357,405; Nov. 2; v. 280; p. 39.
Kline, Robert, Cleveland, Ohio. Dish-drainer. No. 1,349,771; Aug. 17; v. 277; p. 445.
Kline, Robert L., Indianapolis, Ind. Artificial-stone making. No. 1,344,087; June 22; v. 275; p. 667.
Kline, Samuel, Jersey City, N. J. Reel-swift brace. No. 1,356,374; Oct. 19; v. 279; p. 471.
Kline, Walter, Mogadore, Ohio. Laminated fabric. No. 1,341,987; June 1; v. 275; p. 73.
Kline, Walter, Mogadore, assignor to The Interlocking Cord Tire and Belt Company, Akron, Ohio. Pneumatic tire. No. 1,335,442; Mar. 30; v. 272; p. 835.
Kline, William, Waynesboro, Va., assignor of one-half to W. J. Moore, Washington, D. C. Sound-regulator for audible signals. No. 1,342,543; June 8; v. 275; p. 235.
Kling, Fred E., Youngstown, Ohio. Valve. No. 1,334,248; Mar. 16; v. 272; p. 503.
Kling, Robert S., West Haven, Conn. Caliper-gage for metal measuring-scales. No. 1,361,470; Dec. 7; v. 281; p. 99.
Klingback, Adam, Emmett, Idaho. Power-hammer. No. 1,353,347; Sept. 21; v. 278; p. 414.
Klingbeil, Edward G., Lander, Wyo. Heating-drum. No. 1,345,603; July 6; v. 276; p. 54.
Klingele, August. (See Bayer and Klingele.)
Klingele, August, Lorain, Ohio. Pencil-holder. No. 1,341,509; May 25; v. 274; p. 745.
Klingelsmith Electric Truck Company. (See Klingelsmith, Joseph M., assignor.)
Klingelsmith, Joseph M., assignor to Klingelsmith Electric Truck Company, Chicago, Ill. System of electric-vehicle operation. No. 1,335,243; Mar. 30; v. 272; p. 797.
Klingenberg, Irvin, Elgin, Ill. Shoe. No. 1,360,228; Nov. 23; v. 280; p. 743.
Klinger, Eugene J., South Elgin, Ill. Dimmer for electric lights. No. 1,356,293; Oct. 19; v. 279; p. 456.
Klingham, Louis, Cleveland, Ohio., assignor to American Can Company, New York, N. Y. Nozzle-can. No. 1,343,921; June 22; v. 275; p. 635.
Klinker, Orpha M., Los Angeles, Calif. Doll. No. 1,333,118; Mar. 9; v. 272; p. 281.
Klipper, Joseph, West New York, N. J. Signal device for automobiles. No. 1,342,049; June 1; v. 275; p. 85.
Klise, Clayton L., Yankton, S. D. Aerial torpedo. No. 1,343,831; June 15; v. 275; p. 552.
Klix Manufacturing Company. (See Aylsworth, Harold D., assignor.)
Klocke, William, Woodhaven, assignor to Pressed Bearing Company, Inc., Brooklyn, N. Y. Lined bearing. No. 1,331,961; Feb. 24; v. 271; p. 610.
Klocke, William, New York, assignor to Pressed Bearing Company, Inc., Brooklyn, N. Y. Forging. No. 1,338,779; May 4; v. 274; p. 24.
Klocke, William H., Woodhaven, assignor of one-half to H. F. Hughes, Brooklyn, N. Y. Reinforced rear-axle housing. No. 1,363,882; Dec. 28; v. 281; p. 709.
Kloneck, August J., New York, N. Y. Shock-absorber and dynamometer for power transmissions. No. 1,346,546; July 13; v. 276; p. 802.
Kloos, Cornelis, Bussum, Netherlands. Device for supplying a cooling liquid to pistons of internal-combustion engines. No. 1,334,866; Mar. 23; v. 272; p. 667.
Klorer, Charles P., assignor to Miller Saw-Trimmer Company, Pittsburgh, Pa. Sheet-receiving member for register devices. No. 1,330,636; Feb. 10; v. 271; p. 272.
Kloster, Ole and T., Stavanger, Norway. Fish-dressing machine. No. 1,331,932; Feb. 24; v. 271; p. 605.
Kloster, Theodor. (See Kloster, Ole and T.)
Klousnitzer, Frank, Crafton, assignor of one-half to R. Sommer, Pittsburgh, Pa. Crutch. No. 1,336,844; Apr. 13; v. 273; p. 276.
Klovstad, John A., Hope, N. D. Self-loading coal and grain truck. No. 1,353,247; Sept. 21; v. 278; p. 394.
Kluczny, F. R. (See Hoffmann, Michael, assignor.)
Kluever, Fred W., assignor to The C. F. Pease Company, Chicago, Ill. Hinged ruling-pen. No. 1,344,045; June 22; v. 275; p. 659.
Klug, Charles, Philadelphia, Pa. Attachment for pipe-cutters. No. 1,330,476; Feb. 10; v. 271; p. 243.
Klug, Frederick S., and C. E. Freeland, Wheeling, W. Va. Roll-polisher. No. 1,327,919; Jan. 13; v. 270; p. 255.
Kluga, Felix. (See Kluga, Vincent and F.)
Kluga, Vincent and F., Niagara Falls, N. Y. Oil-burner. No. 1,362,874; Dec. 21; v. 281; p. 473.
Klumpp, Gottlob, New York, N. Y. Lubricating device. No. 1,354,765; Oct. 5; v. 279; p. 64.
Klunder, Jacob, Grand Rapids, Mich. Direction-indicator and tail-light for vehicles. No. 1,351,913; Sept. 7; v. 278; p. 40.
Kluth, George F., Guttenberg, Iowa. Hinged receptacle. No. 1,355,150; Oct. 12; v. 279; p. 191.
Knap, Fred H., Company, The. (See Dewey, Haywood W., assignor.)
Knapp, Albert S., assignor to Wickwire Spencer Steel Corporation, Worcester, Mass. Loom for weaving wire-cloth. No. 1,352,610; Sept. 14; v. 278; p. 209.
Knapp Brothers Manufacturing Company. (See Knapp, George S., assignor.)
Knapp, Charles P., Rochester, Ohio. Automatic crossing-gate. No. 1,329,188; Jan. 27; v. 270; p. 561.
Knapp, Clyde S., assignor to Sexton Manufacturing Corporation, Chicago, Ill. Corrugated-paper-board box. No. 1,328,524; Jan. 20; v. 270; p. 407.
Knapp, David R., Pottsville, Pa. Manufacturing steel. No. 1,361,589; Dec. 7; v. 281; p. 123.
Knapp, E. J., Candle and Wax Company. (See Knapp, Edward J., assignor.)

Digitized by Google

Knapp, Edward J., assignor to E. J. Knapp Candle and Wax Co. Inc., Syracuse, N. Y. Sanctuary-lamp. No. 1,336,635; Apr. 13; v. 273; p. 235.
Knapp, Edward J., assignor to E. J. Knapp Candle and Wax Co., Inc., Syracuse, N. Y. Candle-lamp. No. 1,350,461; Aug. 24; v. 277; p. 626.)
Knapp, Edwin L., Anacortes, Wash. Line-holder. No. 1,331,203; Feb. 17; v. 271; p. 448.
Knapp, Fred H., Company. (See Dewey, Haywood G., assignor.)
Knapp, Fred R., Co., The. (See Blackstone, Clarence W., assignor.)
Knapp, George S., La Grange, assignor to Knapp Brothers Manufacturing Company, Chicago, Ill. Molding for plastered walls. No. 1,335,378; Mar. 30; v. 273; p. 823.
Knapp, Henry F., Lebanon, N. H. Apparatus for washing automobiles and the like. No. 1,337,477; Apr. 20; v. 273; p. 470.
Knapp, Herbert W., Kansas City, Mo. Water-level-signaling attachment for motor-cars. No. 1,344,904; June 29; v. 275; p. 892.
Knapp, Jacob, assignor to The Sechler & Company, Cincinnati, Ohio. Trailer-vehicle. No. 1,328,048; Jan. 13; v. 270; p. 280.
Knapp, John, Holland, Mich. Molding-machine. No. 1,339,354; May 4; v. 274; p. 130.
Knapp, Leo M., Wellsville, N. Y. Compression-tester. No. 1,337,455; Apr. 20; v. 273; p. 466.
Knapp Metal Barrel and Package Co. of Nevada. (See Knapp, Sewell A. and M. A., assignors.)
Knapp, Moses A. (See Knapp, Sewell A. and M. A.)
Knapp, Sewell A., Berkeley, and M. A. Knapp, Oakland, Calif., assignors to Knapp Metal Barrel and Package Co. of Nevada, Carson City, Nev. Collapsible barrel. No. 1,336,358; Apr. 6; v. 273; p. 123.
Knapp, Walter C., assignor to Liberty Bread Slicer, Inc., Rochester, N. Y. Slicing-machine. No. 1,353,802; Sept. 21; v. 278; p. 504.
Knapp, Walter C., assignor to Liberty Bread Slicer, Inc., Rochester, N. Y. Slicing-machine. No. 1,353,803; Sept. 21; v. 278; p. 504.
Knapp, William, Bayonne, N. J., assignor to American Fixture Dealers Syndicate, New York, N. Y. Gravity supporting device. No. 1,331,569; Feb. 24; v. 271; p. 536.
Knapp, William A., Washington, D. C. Drop-hammer. No. 1,327,331; Jan. 6; v. 270; p. 84.
Knapp, William B., Paterson, N. J. Screen, curtain, and the like. No. 1,355,608; Oct. 12; v. 279; p. 281.
Knaup, Clarence S. (See Belling, Bernard A., assignor.)
Knaur, Richard, assignor to Firm of Felten & Guilleaume Fabrik Elektrischer Kabel, Stahl- und Kupferwerke Aktiengesellschaft, Vienna, Austria. Wire fence. No. 1,329,189; Jan. 27; v. 270; p. 561.
Knee, Albert E., Bluefield, and G. B. Hopkins, Lex, W. Va. Mechanical long-wall coal-loading conveyer. No. 1,343,369; June 15; v. 275; p. 461.
Knell, William F., Detroit, Mich. Flushing-valve. No. 1,338,688; Apr. 27; v. 273; p. 759.
Knemeyer, William H., San Antonio, Tex. Ice-cream freezer. No. 1,348,951; Aug. 10; v. 277; p. 211.
Knepper, Asher, Redfield, S. D. Land and water engine. No. 1,357,571; Nov. 2; v. 280; p. 69.
Knick, Glenn R., Troy, Ohio. Mechanical movement. No. 1,354,766; Oct. 5; v. 279; p. 64.
Knight, Albert B., Fairmont, W. Va. Machine for grinding edges of glassware. No. 1,327,830; Jan. 13; v. 270; p. 239.
Knight American Patents Company. (See Knight, Charles Y., assignor.)
Knight, Amos L. (See Bancroft and Knight.)
Knight, Amos L. (See Bancroft, J. S., and Knight.)
Knight Charles Y., Pasadena, Calif., assignor to the Knight American Patents Company, Chicago, Ill. Ignition mechanism for internal-combustion engines. No. 1,350,815; Aug. 24; v. 277; p. 694.
Knight, George B., Camden, N. J. Head-guard attachment for caps. No. 1,345,933; July 6; v. 276; p. 120.
Knight, George R., Pittsburgh, Pa. Casket-hinge. No. 1,332,504; Mar. 2; v. 272; p. 63.
Knight, Harriet W., New York, N. Y. Ornamental telephone-concealing hood. No. 1,340,863; May 18; v. 274; p. 548.
Knight, Herbert, New York, N. Y. Process of and apparatus for soil treatment. No. 1,359,177; Nov. 16; v. 280; p. 490.
Knight, Herbert, New York, N. Y., assignor to International Munitions Company, Inc. of Delaware. Sensitive ignition device. No. 1,333,496; Mar. 9; v. 272; p. 302.
Knight, Herbert, Brockley, assignor to M. King, St. John's Wood, Middlesex, England. Carbureter and vaporizer. No. 1,344,698; June 29; v. 275; p. 852.
Knight, Herbert M., Rome, N. Y. Burial-vault. No. 1,337,559; Apr. 20; v. 273; p. 486.
Knight, Herbert M., Rome, N. Y. Concrete block construction. No. 1,353,046; Sept. 14; v. 278; p. 296.
Knight, Hervey S., *et al.* (See Bair, Joseph H., assignor.)
Knight, James H. (See Anderson, August R., assignor.)
Knight, John J., Alameda, and M. Lee, Oakland, Calif. Bearing and constructing same. No. 1,354,200; Sept. 28; v. 278; p. 629.
Knight, Joseph, Liverpool, England. Two-cycle engine. No. 1,334,380; Mar. 23; v. 272; p. 575.
Knight, Le Roy E., Bethlehem, Pa. Curtain-pole. No. 1,356,454; Oct. 19; v. 279; p. 487.
Knight, Paul A., Baltimore, Md. Valve-spring lifter. No. 1,348,570; Aug. 3; v. 277; p. 86.
Knight, Stanley H., Chicago, Ill. Dispensing-faucet. No. 1,327,162; Jan. 6; v. 270; p. 53.
Knight, Stanley H., Chicago, assignor to Chicago Hardware Foundry Company, North Chicago, Ill. Store-counter. No. 1,357,062; Oct. 26; v. 279; p. 653.
Knight, William W., Oxford, Miss. Combination baby's bed, cradle, and wardrobe. No. 1,336,240; Apr. 6; v. 273; p. 101.
Knights, George L., assignor to Hodge & Graves Company, Amesbury, Mass. Adjustable support. No. 1,348,569; Aug. 3; v. 277; p. 85.
Knipe, Henry H., Olney, Ill. Message-meter device. No. 1,348,499; Aug. 3; v. 277; p. 71.
Knistrom, August, Binghamton, N. Y., assignor to The Tabulating Machine Company. Mechanical tabulating-machine. No. 1,335,285; Mar. 30; v. 272; p. 805.
Knittel, David G., Wildewood, assignor to Knittel Krawling Tractor Company, Pittsburgh, Pa. Tractor. No. 1,361,875; Dec. 14; v. 281; p. 226.
Knittel, David G., Wildewood, assignor to Knittel Krawling Tractor Company, Pittsburgh, Pa. Tractor. No. 1,361,876; Dec. 14; v. 281; p. 226.
Knittel Krawling Tractor Company. See Knittel, David G., assignor.)
Knizek, Frank, Doty, Wash. Saw-filing tool. No. 1,330,042; Feb. 3; v. 271; p. 130.
Knoblock, Alvin F. (See Heinze, John O., assignor.)
Knoblock, James W., assignor to American La France Fire Engine Co., Inc., Elmira, N. Y. Portable electric hand-lantern. No. 1,341,471; May 25; v. 274; p. 738.
Knoblock, James W., New York, assignor to American La France Fire Engine Co., Inc., Elmira, N. Y. Focusing device for projectors. No. 1,341,472; May 25; v. 274; p. 738.
Knoblock, James W., New York, assignor to American La France Fire Engine Co., Inc., Elmira, N. Y. Supporting-bracket for lamps or lanterns. No. 1,361,339; Dec. 7; v. 281; p. 72.
Knoch, Adolph E., Los Angeles, Calif. Binder. No. 1,359,606; Nov. 23; v. 280; p. 620.
Knoch, Isaac. (See Nelson and Knoch.)
Knoch, Isaac, *et al.* (See Nelson, Anton R., assignor.)
Knoche, Bernhard N., Valley Stream, N. Y. Spool. No. 1,353,761; Sept. 21; v. 278; p. 497.
Knock, Juan F., Lewistown, Ill. Fuel-saver. No. 1,351,855; Sept. 7; v. 278; p. 28.
Knoedler, Elmer L. (See Stites and Knoedler.)
Knoedler, Elmer L., assignor to Welsbach Company, Gloucester City, N. J. Pot-furnace. No. 1,349,159; Aug. 10; v. 277; p. 252.
Knoedler, Elmer L., assignor to Welsbach Company, Gloucester City, N. J. Treating monazite sand. No. 1,361,785; Dec. 7; v. 281; p. 151.
Knoerzer, Otto, Hammond, Ind. Axle construction for sprayers. No. 1,332,219; Mar. 2; v. 272; p. 8.
Knoflicek, Frank G., Silvis, Ill. Tire-heater. No. 1,328,330; Jan. 20; v. 270; p. 370.
Knoll, Charles C. (See Pequegnat, F., and Knoll.)
Knoll, Roy C., F. J. Rode and C. Kotchl, Milwaukee, Wis. Electrode for arc-welding. No. 1,354,664; Oct. 5; v. 279; p. 44.
Knopf, Sidney M., New York, N. Y. Attachment for telephone. No. 1,341,855; June 1; v. 275; p. 48.
Knopf, Sidney M., New York, N. Y. Reflecting device for electric incandescent lamps. No. 1,353,916; Sept. 28; v. 278; p. 571.
Knöpfmacher, Arthur, assignor, by mesne assignments, to The Chemical Foundation, Inc., Vienna, Austria. Producing a highly-active decolorizing-charcoal. No. 1,358,162; Nov. 9; v. 280; p. 246.
Knoph, Robert G. (See Toraszi, M. F., and Knoph.)
Knopp, Julius W., Toledo, Ohio. Pawl-and-ratchet means. No. 1,329,000; Jan. 27; v. 270; p. 525.
Knopp, Otto A., Oakland, Calif. Compression-rheostat. No. 1,345,015; June 29; v. 275; p. 912.
Knorr, Julius, Woodhaven, assignor to Keller Printing Company, New York, N. Y. Clothing-ticket. No. 1,362,328. Dec. 14; v. 281; p. 316.
Knoss, Godfrey, Jr., Philadelphia, Pa. Fuse-handling tool. No. 1,363,515; Dec. 28; v. 281; p. 638.
Knott, Charles, New Madrid, Mo. Tractor. No. 1,341,428; May 25; v. 274; p. 729.
Knott, Frank W. (See Garlius, B., and Knott.)
Knotts, Thomas S., Little Rock, Ark. Convertible hat. No. 1,347,338; July 20; v. 276; p. 518.
Knowles, Bernard A., Azalia, Mich. Teat-cup for milking-machines. No. 1,333,261; Mar. 9; v. 272; p. 257.
Knowles, Bernard D., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Antismutting device for traveling sheets. No. 1,342,117; June 1; v. 275; p. 99.
Knowles, Clarence H. (See Nickol, F. C., and Knowles.)
Knowles, Edwin M. (See Irwin, De Witt D., assignor.)

Digitized by Google

Knowles, James A., Baltimore, Md. Universal-joint puller. No. 1,337,233; Apr. 20; v. 273; p. 424.
Knowles, Samuel F., Jr. (See Kent, Alden J., assignor.)
Knowles, William V., Hubbard, Iowa. Creeper. No. 1,327,103; Jan. 6; v. 270; p. 42.
Knowlton, Ida E., Medina, Tex. Cane-stripper. No. 1,360,765; Nov. 30; v. 280; p. 917.
Knowlton, John A., Dorchester, assignor to Universal Tide Power Co., Boston, Mass. Hydraulic air-motor. No. 1,342,682; June 8; v. 275; p. 261.
Knowlton, M. D., Company. (See De Smith, Henry, assignor.)
Knowlton, M. D., Company. (See Hawkins, Edgar M., assignor.)
Knowlton, M. D., Company. (See Seymour, Charles R., assignor.)
Knox, De Witt, *et al.* (See Margetts, I. R., and Fagergren, assignors.)
Knox, Luther L., Avalon, assignor to Blaw-Knox Company, Pittsburgh, Pa. Valve system for reversing furnaces. No. 1,351,914; Sept. 7; v. 278; p. 41.
Knox, Luther L., Avalon, assignor to Blaw-Knox Company, Pittsburgh, Pa. Reversing furnace. No. 1,351,915; Sept. 7; v. 278; p. 41.
Knox, Walter F., Port Huron, Mich. Mixing-faucet. No. 1,345,934; July 6; v. 276; p. 120.
Knox, William C., New York, N. Y. Station-indicator. No. 1,336,035; Apr. 6; v. 273; p. 63.
Knox, William J., Dubois, Pa. Drop stake-loop. No. 1,336,636; Apr. 13; v. 273; p. 236.
Knox, William J., Dubois, Pa. Locomotive-throttle-valve device. No. 1,356,925; Oct. 26; v. 279; p. 626.
Knudsen, Carl H., Brooklyn, N. Y. Internal-combustion engine. No. 1,353,481; Sept. 21; v. 278; p. 440.
Knudsen, Carl H., Brooklyn, N. Y. Valve construction for fuel-oil motors. No. 1,363,470; Dec. 28; v. 281; p. 628.
Knudsen, Charles O., Brooklyn, N. Y. Ship-salvaging. No. 1,328,434; Jan. 20; v. 270; p. 389.
Knudsen, Edward M., Ashland, Wis. Combined bottle ball and cover. No. 1,363,983; Dec. 28; v. 281; p. 728.
Knudsen, Jacob B., Chicago, Ill. Universal pipe-joint. No. 1,326,939; Jan. 6; v. 270; p. 11.
Knudsen, Jacob B., assignor of one-half to F. H. Quail, Chicago, Ill. Valve. No. 1,326,938; Jan. 6; v. 270; p. 11.
Knudsen, Knud, assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Electric switch. No. 1,328,798; Jan. 20; v. 270; p. 457.
Knudsen, Peter O. J., Copenhagen, Denmark. Locking device for motor-vehicles. No. 1,348,649; Aug. 3; v. 277; p. 101.
Knudson, Oscar O., Minot, N. D. Cement block. No. 1,332,505; Mar. 2; v. 272; p. 64.
Knuppel, Frank T. P., Klink, Calif. Furrow-cutting and scarifying machine. No. 1,354,665; Oct. 5; v. 279; p. 44.
Knutsen, John, Bowden, Alberta, Canada, assignor of one-half to C. Louttit, Prince George, British Columbia, Canada. Track-adjusting machine. No. 1,341,912; June 1; v. 275; p. 59.
Knutsen, Knute. (See Mathewson and Knutsen.)
Knutson, Alfred W., Galesburg, Ill., assignor to Bayne Manufacturing Company, Bushnell, Ill. End-gate. No. 1,331,570; Feb. 24; v. 271; p. 536.
Knutson, Knut, Bergen, Norway. Hatch-cover. No. 1,352,202; Sept. 7; v. 278; p. 94.
Knuttila, Jacob. (See Lindfors, Victor E., assignor.)
Kny-Scheerer Corporation, The. (See Hawley, George W., assignor.)
Kny-Scheerer Corporation, The. (See Weglener, Waldemar J., assignor.)
Kobayashi, Kanjiro, Tokyo, Japan. Steel-ball-making machine. No. 1,337,079; Apr. 13; v. 273; p. 321.
Kobe, Shizuo, Cleveland, Ohio. Gas-stove. No. 1,344,136; June 22; v. 275; p. 676.
Kobert, Frank P., Amityville, N. Y. Electric heating apparatus for metal-working machines. No. 1,330,477; Feb. 10; v. 271; p. 243.
Kobert, Frank P., Amityville, N. Y. Electric heating apparatus for metal-working machines. No. 1,333,080; Mar. 9; v. 272; p. 224.
Kobert, Frank P., Amityville, N. Y. Metal-working. No. 1,333,081; Mar. 9; v. 272; p. 224.
Kobert, Frank P., Amityville, N. Y. Process and machine for making certain articles of manufacture. No. 1,341,626; May 25; v. 274; p. 767.
Kobert, Frank P., Amityville, N. Y. Electric riveting-machine. No. 1,345,679; July 6; v. 276; p. 69.
Kobler-Stauder, Victor, Zurich, Switzerland. Copy-holder for typewriting-machines. No. 1,330,637; Feb. 10; v. 271; p. 273.
Kobuchi, Luis, Smithfield, Pa. Projectile. No. 1,330,079; Feb. 10; v. 271; p. 169.
Koch, Charles J., assignor to The Sales Service Company, Cincinnati, Ohio. Carrying case for motion-picture projectors. No. 1,351,765; Sept. 7; v. 278; p. 10.
Koch, Franz, assignor, by mesne assignments, to The Chemical Foundation, Inc., Görlitz, Germany. Removing fat from raw wool or analogous materials by the aid of fat-solvents. No. 1,358,163; Nov. 9; v. 280; p. 246.
Koch, Fritz, St. Paul, Minn. Apparatus for separating particles of varying size or density. No. 1,358,375; Nov. 9; v. 280; p. 288.
Koch, George, assignor to E. Cadgene and O. Berg, Paterson, N. J. Pile fabric. No. 1,342,589; June 8; v. 275; p. 244.
Koch, Gotthardt, Chicago, Ill. Engine-lock. No. 1,352,417; Sept. 7; v. 278; p. 134.
Koch, Hans. (See Eckert, Karl, assignor.)
Koch, Henry, Jamaica, N. Y., assignor to Dictograph Products Corporation. Rheostat for telephonic instruments. No. 1,356,634; Oct. 26; v. 279; p. 569.
Koch, Henry, Jamaica, N. Y., assignor to Dictograph Products Corporation. Telephone-transmitter. No. 1,361,590; Dec. 7; v. 281; p. 123.
Koch, John R., Philadelphia, Pa. Gage. No. 1,351,663; Aug. 31; v. 277; p. 923.
Koch, Lydia B. (See Robertson, William P., assignor.)
Koch, Lydia B. (See Thompson, Henry B., assignor.)
Koch, Nicholas E., Los Angeles, Calif. Roller-bearing sleeve-puller. No. 1,334,658; Mar. 23; v. 272; p. 627.
Koch, Nicholas E., Los Angeles, Calif. Roller-bearing sleeve-clamp. No. 1,363,795; Dec. 28; v. 281; p. 692.
Koch, Theodor, Newark, N. J., assignor to American Platinum Works. Alloy. No. 1,340,451; May 18; v. 274; p. 471.
Koch, Theodore A. (See Sargent, H. R., and Koch.)
Koch, William J., La Crosse, Wis. Adjustable backrest. No. 1,345,785; July 6; v. 276; p. 90.
Koch, William J., La Crosse, Wis. Shield for button-cutters' shell-tongs. No. 1,349,889; Aug. 17; v. 277; p. 468.
Koch, William J., La Crosse, assignor to Wisconsin Pearl Button Company, La Crosse county, Wis. Tailstock for button-blank-sawing machines. No. 1,328,742; Jan. 20; v. 270; p. 447.
Kocha, Jacob, Warrior Run, Peely, Pa. Monkey-wrench. No. 1,338,376; Apr. 27; v. 278; p. 710.
Kochendarfer, Sirius E., Washington, Pa. Rotary-engine. No. 1,344,137; June 22; v. 275; p. 676.
Kochendorfer, Frederic S., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Grinding, polishing, and buffing machine equipment. No. 1,339,202; May 4; v. 274; p. 102.
Kochendorfer, Frederic S., Chicago, and B. E. Balduf, Cicero, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Annealing-furnace. No. 1,352,459; Sept. 14; v. 278; p. 178.
Kocher, Rudolph A., San Francisco, Calif. System for the treatment of cellulose or the like. No. 1,362,875; Dec. 21; v. 281; p. 473.
Kochobo, John H., McKeesport, Pa. Reel-holder for moving-picture machines. No. 1,347,956; July 27; v. 276; p. 697.
Kocourek, Henry, Chicago, Ill. Aerating device for primers for internal-combustion engines. No. 1,336,144; Apr. 6; v. 273; p. 83.
Kocourek, Henry, assignor to The Chicago Flexible Shaft Company, Chicago, Ill. Hit-or-miss valve-action for internal-combustion engines. No. 1,331,507; Feb. 24; v. 271; p. 525.
Kocourek, Henry, assignor to Chicago Flexible Shaft Company, Chicago, Ill. Electric flatiron. No. 1,350,867; Aug. 24; v. 277; p. 703.
Kocourek, Henry, assignor to Chicago Flexible Shaft Company, Chicago, Ill. Belt transmission. No. 1,354,407; Sept. 28; v. 278; p. 671.
Kocourek, Henry, assignor to Chicago Flexible Shaft Company, Chicago, Ill. Telescoping pulley. No. 1,363,471; Dec. 28; v. 281; p. 629.
Kodish, Isidore, Brooklyn, N. Y. Combination-padlock. No. 1,331,933; Feb. 24; v. 271; p. 605.
Koebel, John F., Buffalo, N. Y. Valve-lock for automobiles and the like. No. 1,348,364; Aug. 3; v. 277; p. 46.
Koechlin, Albert G., Basel, Switzerland. Weft-spool changer for weaving-looms. No. 1,346,095; July 6; v. 276; p. 152.
Koechlin, Emile R., assignor to Naamlooze Vennootschap Weduwe J. Ahrend & Zoons Industrie- en Handelsvereeniging, Amsterdam, Netherlands. Drawing-table. No. 1,327,956; Jan. 13; v. 270; p. 262.
Koechlin, Emile R., assignor to Naamlooze Vennootschap Weduwe J. Ahrend & Zoons Industrie en Handelsvereeniging, Amsterdam, Netherlands. Drawing-table. No. 1,341,988; June 1; v. 275; p. 73.
Koechlin, Isaac, Paris, France. Process and apparatus for the optical study of the motion of mechanisms. No. 1,329,909; Feb. 3; v. 271; p. 106.
Koedding, William, and W. J. Lemp, St. Louis, Mo. Dealcoholizing liquids. No. 1,351,521; Aug. 31; v. 277; p. 895.
Koedding, William, St. Louis, and W. J. Lemp, St. Louis county, Mo. Apparatus for treating liquids. No. 1,351,522; Aug. 31; v. 277; p. 895.
Koegan, Richard C., South Bend, Ind. Power-excavator. No. 1,353,913; Sept. 28; v. 278; p. 570.
Koehl, George J., San Diego, Calif. Toy. No. 1,348,283; Aug. 3; v. 277; p. 30.
Koehl, George J., San Diego, Calif., assignor to Neptune Sea Food Company. Can selecting and weighing apparatus. No. 1,343,458; June 15; v. 275; p. 478.

Digitized by Google

Koehler, August, assignor to Bausch & Lomb Optical Co., Rochester, N. Y. Lens-mount safety-lock. No. 1,357,996; Nov. 9; v. 280; p. 213.
Koehler, Charles. (See McIntyre and Koehler.)
Koehler, Charles H., Chicago, Ill., assignor to Efficiency Mileage Recorder Co., Highland Park, Ky. Electrical control apparatus. No. 1,358,082; Nov. 9; v. 280; p. 230.
Koehler, George, Cincinnati, Ohio. Boring-tool. No. 1,327,049; Jan. 6; v. 270; p. 82.
Koehler, William, Cleveland, Ohio. Process and apparatus for the oxidation and reduction of gaseous compounds. No. 1,332,730; Mar. 2; v. 272; p. 106.
Koehne, John B., New London, N. H. Appliance for men's trousers. No. 1,340,276; May 18; v. 274; p. 437.
Koehring Machine Company. (See Lichtenberg, Erich H., assignor.)
Koehring Machine Company. (See Robb, John F., assignor.)
Koehring Machine Company. (See Wetmore, Charles P., assignor.)
Koellhoffer, Bernard, Newark, N. J. Game. No. 1,349,615; Aug. 17; v. 277; p. 415.
Koellner, Louie F. (See Cotton, Alfred, and Koellner.)
Koeneke, Herman, *et al.* (See Devereaux, Francis A., assignor.)
Koener, Charles L., assignor of one-half to W. S. Reid, Kansas City, Mo. Motor-meter lock. No. 1,334,500; Mar. 23; v. 272; p. 597.
Koenig, Joseph, Two Rivers, Wis. Heating apparatus. No. 1,330,478; Feb. 10; v. 271; p. 243.
Koenig, Josepn, Two Rivers, Wis. Means for securing handles and the like to receptacles. No. 1,330,479; Feb. 10; v. 271; p. 243.
Koenig, William J., deceased, Brooklyn, N. Y.; A. Allen administratrix. Emergency-lamp. No. 1,344,206; June 22; v. 275; p. 690.
Koenigkramer, Frank, Cincinnati, Ohio, assignor to J. V. McManis, Kirksville, Mo. Treatment-table. No. 1,329,611; Feb. 3; v. 271; p. 50.
Koepp, Charles W. (See Christman, A. G., and Koepp.)
Koeppe, Emma, *et al.* (See Hokanson, Charles, assignor.)
Koerner, Charles L. (See Miller, Emil A., assignor.)
Koerner, Herman W., Milwaukee, Wis. Plant-support. No. 1,359,388; Nov. 16; v. 280; p. 532.
Koetting, August, Brooklyn, N. Y. Safety-guard for punch-presses. No. 1,346,713; July 13; v. 276; p. 335.
Koetz, Francis M., Woodstock, Ill. Traction-wheel. No. 1,352,281; Sept. 7; v. 278; p. 109.
Koetzla, Frederick C., *et al.* (See Murphy, Charles E., assignor.)
Koetzle, Arthur, New York, N. Y., assignor to Rohm & Haas Company. Tanning material and producing same. No. 1,344,950; June 29; v. 275; p. 900.
Koetzle, Arthur, New York, N. Y., assignor to Rohm & Haas Company. Tanning material and producing same. No. 1,344,951; June 29; v. 275; p. 900.
Koetzle, Arthur, New York, N. Y., assignor to Rohm & Haas Company. Tanning material and producing same. No. 1,344,952; June 29; v. 275; p. 900.
Koff, Julien. (See Jaccard, A., and Koff.)
Kofoed, Axel P., and N. P. Nielsen, Copenhagen, Denmark. Tube-stopper. No. 1,335,117; Mar. 30; v. 272; p. 775.
Kofstad, Otto, Warroad, Minn. Mold for hollow walls. No. 1,345,371; July 6; v. 276; p. 9.
Kogolshsek, Joežep, Klein, Mont. Blasting-cartridge. No. 1,358,318; Nov. 9; v. 280; p. 277.
Kogolshsek, Joseph, Klein, Mont. Automobile-wheel. No. 1,363,129; Dec. 21; v. 281; p. 523.
Kohirogawa, Haruichi, Portland, Oreg. Necktie-support. No. 1,347,957; July 27; v. 276; p. 697.
Kohl, Daniel S., Jared, Wash. Cultivator mechanism. No. 1,360,649; Nov. 30; v. 280; p. 894.
Kohl, Ferdinand, Plymouth, Wis. Bow-facing oar. No. 1,345,860; July 6; v. 276; p. 104.
Kohl, Ignatz, New York, N. Y. Hatpin attachment. No. 1,331,438; Feb. 17; v. 271; p. 491.
Kohlenbrand, Anton, Buxton, Iowa. Curtain and shade bracket. No. 1,333,425; Mar. 9; v. 272; p. 288.
Kohlenbrand, Anton, Buxton, Iowa. Shade-roller and curtain-pole bracket No. 1,333,426; Mar. 9; v. 272; p. 288.
Kohler, Christian H. (See Hanscom, W. G., Kohler, and Peet.)
Kohler, Conrad, Zurich, Switzerland. Device for the recuperation of available heat on steam-locomotives provided with surface condensers. No. 1,342,544; June 8; v. 275; p. 235.
Kohler, Conrad, Zurich, Switzerland. Steam-turbine-driven vehicle. No. 1,349,282; Aug. 10; v. 277; p. 277.
Kohler, Conrad, Zurich, Switzerland. Condenser for locomotives. No. 1,363,883; Dec. 28; v. 281; p. 709.
Kohler, Ernest, Alameda, Calif. Torpedo capturing and destroying net. No. 1,337,920; Apr. 20; v. 273; p. 555.
Kohler, Ernest, Denver, Colo., assignor to The United Mines and Manufacturing Company. Amusement device, (skating-car.) No. 1,328,166; Jan. 13; v. 270; p. 302.
Kohler, George W., *et al.* (See Stoltz, Otto W., assignor.)
Köhler, John R., Stockholm, Sweden. Shellac surrogate and producing same. No. 1,327,332; Jan. 6; v. 270; p. 84.
Kohler, Ulrich. (See Aberegg, O., and Kohler.)
Kohlhaas, Otto H., Calumet, Mich. Marker for planters. No. 1,349,462; Aug. 10; v. 277; p. 311.
Kohlhepp, Frederick A., assignor to Larter & Sons, Newark, N. J. Locket. No. 1,342,817; June 8; v. 275; p. 289.
Kohlhepp, John W., Chicago, Ill., assignor to The Allbright-Nell Company. Flexible dehairing-wheel. No. 1,332,401; Mar. 2; v. 272; p. 44.
Kohlhepp, John W., Chicago, Ill., assignor to Allbright-Nell Co. Carcass-scraping wheel. No. 1,347,639; July 27; v. 276; p. 633.
Kohlhepp, John W., assignor to The Allbright-Nell Company, Chicago, Ill. Carcass-beating wheel. No. 1,357,640; Nov. 2; v. 280; p. 83.
Kohlman, Dirk L., Dordrecht, Netherlands. Collapsible baby and wheeling chair and carriage. No. 1,339,355; May 4; v. 274; p. 130.
Kohlmeyer, August H., Detroit, Mich. Gas-oven. No. 1,358,217; Nov. 9; v. 280; p. 257.
Kohlruss, Frederick, Balgonie, Saskatchewan, Canada. Stooker. No. 1,328,674; Jan. 20; v. 270; p. 434.
Kohman, Henry A., and R. Irvin, Pittsburgh, Pa. Manufacture of leavened bread. No. 1,345,680; July 6; v. 276; p. 69.
Kohn, Milton M., assignor to The Ventilator Fan Co., Inc., New York, N. Y. Ventilator-fan. No. 1,337,560; Apr. 20; v. 273; p. 486.
Kohn, Monroe. (See Cowell, John W., assignor.)
Kohn, Sigmund F., New York, N. Y. Toy whistle. No. 1,363,325; Dec. 28; v. 281; p. 602.
Kohne, Robert D., Toledo, Ohio. Tractor. No. 1,355,981; Oct. 19; v. 279; p. 393.
Kohne, Robert D., Toledo, Ohio. Tractor propulsion mechanism. No. 1,362,802; Dec. 21; v. 281; p. 460.
Kohner, Louis M., Los Angeles, Calif. Oil-burner. No. 1,352,373; Sept. 7; v. 278; p. 126.
Kohnle, Frederick, assignor to The Monarch Tag Company, Dayton, Ohio. Tag feeding and printing machine. No. 1,327,241; Jan. 6; v. 270; p. 68.
Kohout, George A., assignor to Cokal Stoker Corporation, Chicago, Ill. Stoker. No. 1,355,095; Oct. 5; v. 270; p. 128.
Kohr, Norman C., Columbus, assignor to Electric Auto-Lite Corporation, Toledo, Ohio. Transmission-gearing. No. 1,360,171; Nov. 23; v. 280; p. 732.
Kohrer, Carl A. (See Beyer, H. A., and Kohrer.)
Koiransky, Simon, Lyon, France. Apparatus for sea navigation. No. 1,344,903; June 29; v. 275; p. 891.
Koivisto, Kustaa, Portland, Oreg. Paint composition. No. 1,347,387; July 20; v. 276; p. 527.
Kojima, Edward M., Los Angeles, Calif., assignor of thirty-one one-hundredths to N. Tsuchiyama and fifteen one-hundredths to H. Kiriyama, El Monte, Calif. Combination faradic and vibratory massage implement. No. 1,338,020; Apr. 27; v. 273; p. 643.
Kok, August J. H., Delft, Zuid, Netherlands. Reversing-gearing. No. 1,357,712; Nov. 2; v. 280; p. 97.
Koken, Walter F. (See Marsh, Grant C., assignor.)
Koken, Walter F., St. Louis, Mo. Child's hair-cutting chair. No. 1,334,038; Mar. 16; v. 272; p. 465.
Koken, Walter F., St. Louis, Mo. Pedestal-base for barber-chairs. No. 1,337,608; Apr. 20; v. 273; p. 495.
Koken, Walter F., St. Louis, Mo. Seat-frame for barber-chairs. No. 1,337,609; Apr. 20; v. 273; p. 495.
Koken, Walter F., St. Louis, Mo. Sheet-metal back for barbers' chairs. No. 1,361,387; Dec. 7; v. 281; p. 81.
Kolar, Adam, Millfield, Ohio. Ash-sifter. No. 1,336,637; Apr. 13; v. 273; p. 236.
Kolbe, John L., Crookston, Minn. Removable cask-cover. No. 1,360,766; Nov. 30; v. 280; p. 917.
Kol-Ben Wheel Company. (See Kolbenstetter, C. M., and Stauffiger, assignors.)
Kolbenstetter, Charles M., and C. W. Stauffiger, assignors to Kol-Ben Wheel Company, Detroit, Mich. Demountable wheel. No. 1,357,997; Nov. 9; v. 280; p. 213.
Kolczynski, John F. (See Woodin, C. K., Karl, and Kolczynski.)
Koleroff, Boris, New York, N. Y. Propelling apparatus. No. 1,362,997; Dec. 21; v. 281; p. 497.
Kolin, Charles, Rochelle, Ill. Advertising specialty. No. 1,246,658; July 13; v. 276; p. 324.
Kolin, Charles, Rochelle, Ill. Dry-cleaning apparatus. No. 1,359,178; Nov. 16; v. 280; p. 490.
Koll, Emil, Cincinnati, Ohio. Piano-flange. No. 1,353,596; Sept. 21; v. 278; p. 464.
Koller, Oscar, New York, N. Y. Gearing. No. 1,341,237; May 25; v. 274; p. 692.
Kollin, Carl F., assignor of one-half to G. P. Thornblade, Marshalltown, Iowa. Watering device. No. 1,350,411; Aug. 24; v. 277; p. 615.
Kollmar, Emil, Pforzheim, assignor to Kollmar & Fourdan A.-G. Uhrkettenfabrik, Pforzheim, Baden, Germany. Method of and apparatus for affixing objects on cards or like supports. No. 1,354,308; Sept. 28; v. 278; p. 651.

Digitized by Google

Alphabetical list of patentees—Continued.

Kollmar & Fourdan A.-G. Uhrkettenfabrik. (See Kollmar, Emil, assignor.)
Kollock, George L., *et al.* (See Kollock, Samuel W. M., assignor.)
Kollock, Samuel W. M., assignor of one-fourth to G. L. Kollock and one-fourth to R. P. Martin and one-fourth to W. Baran, Seattle, Wash. Mechanical movement. No. 1,349,283; Aug. 10; v. 277; p. 277.
Kolodny, David R., Brooklyn, N. Y. Water-tight container for use of bathers. No. 1,331,508; Feb. 24; v. 271; p. 525.
Kolshorn, Reynold E., Red Wing, Minn. Means for agitating bath-water. No. 1,350,974; Aug. 24; v. 277; p. 724.
Kolstad, Ole O., Duluth, Minn. Tags for milk-bottles. No. 1,360,229; Nov. 23; v. 280; p. 743.
Komarcsevits, George, Cleveland, Ohio. Street-cleaner. No. 1,353,047; Sept. 14; v. 278; p. 296.
Komatar, Frank F., East Moline, Ill. Center-punch. No. 1,341,373; May 25; v. 274; p. 719.
Kometter, John, Jr., Milwaukee, Wis. Autoscope. No. 1,338,738; May 4; v. 274; p. 17.
Komorous, Joseph, Riverside, assignor to Parisian Novelty Company, Chicago, Ill. Blotter. No. 1,330,541; Feb. 10; v. 271; p. 255.
Komow, Nicolas, and G. M. Hoskwith, Brooklyn, assignors to United States Cloth Cutting Machine Co., Inc., New York, N. Y. Cloth perforating or marking machine. No. 1,335,244; Mar. 30; v. 272; p. 797.
Konar, John, Chicago, Ill. Internal-combustion chamber for engines. No. 1,342,449; June 8; v. 275; p. 216.
Kondo, Mototeru, Los Angeles, Calif. Coin-counting device. No. 1,362,803; Dec. 21; v. 281; p. 460.
Kondolf, George V., Rochester, N. Y. Slab or brick for driveways. No. 1,339,356; May 4; v. 274; p. 130.
Kondolf, Mathias R., Rochester, N. Y. Ejector for box-pressing machines. No. 1,355,113; Oct. 5; v. 279; p. 181.
Kondrat, Wladyslaw P., Cleveland, Ohio. Sash-lock. No. 1,360,413; Nov. 30; v. 280; p. 847.
Konieczny, Anton, Vienna, Austria. Photographic projection apparatus. No. 1,346,319; July 13; v. 276; p. 258.
König, Adolf, Hoboken, N. J. Machine for forming saw-blades. No. 1,341,806; June 1; v. 275; p. 38.
König, Albert, assignor to firm of Carl Zeiss, Jena, Germany. Adjustment of uniocular telemeters. No. 1,347,044; July 20; v. 276; p. 460.
Konigsberg, Joseph. (See Forsheim, J., and Konigsberg.)
Konigslow, Otto, Manufacturing Company, The. (See Konigslow, Otto, Sr., assignor.)
Konigslow, Otto, Sr., assignor to The Otto Konigslow Manufacturing Company, Cleveland, Ohio. Ignition-manifold. No. 1,330,811; Feb. 17; v. 271; p. 373.
Konyvka, Frank, Cleveland, Ohio. Piston. No. 1,352,460; Sept. 14; v. 278; p. 178.
Koontz, Victor R., assignor to Victor Tool Company, Waynesboro, Pa. Collapsible tap. No. 1,353,048; Sept. 14; v. 278; p. 296.
Koontz, Victor R., assignor to The Victor Tool Company, Waynesboro, Pa. Collapsible tap. No. 1,356,867; Oct. 26; v. 279; p. 615.
Kopecky, John. (See Cawley, Frank E., assignor.)
Kopecky, John, Mason City, Iowa. Bank-check. No. 1,344,235; June 22; v. 275; p. 695.
Koper, Fred G., Charleston, W. Va. Domestic-boiler circulator. No. 1,333,319; Mar. 9; v. 272; p. 268.
Kopf, Emil A., Newark, and M. Hemleb, Elizabeth, N. J., assignors to The Singer Manufacturing Company. Electric-sewing-machine cabinet. No. 1,349,678; Aug. 17; v. 277; p. 427.
Kopf, Emil A., Newark, and M. Hemleb, Elizabeth, N. J., assignors to The Singer Manufacturing Company. Sewing-machine cabinet. No. 1,349,679; Aug. 17; v. 277; p. 427.
Kopf, John C. (See McGinley, Thomas A., and Kopf.)
Kopf, John C., Bellevue, Pa. Mechanical movement. No. 1,338,377; Apr. 27; v. 273; p. 711.
Kopf, John C., Bellevue borough, Pa. Universal joint. No. 1,343,728; June 15; v. 275; p. 531.
Kopf, John C., Bellevue borough, assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Jack. No. 1,337,519; Apr. 20; v. 273; p. 478.
Kopf, John C., Bellevue, assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Ratchet-jack. No. 1,339,377; May 4; v. 274; p. 134.
Kopf, John C., Bellevue borough, assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Jack-bar. No. 1,341,856; June 1; v. 275; p. 48.
Kopf, John C., Bellevue borough, assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Gear-cutting machine. No. 1,343,396; June 15; v. 275; p. 466.
Kopf, John C., Bellevue borough, assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Lifting-jack. (Reissue.) No. 14,991; Nov. 23; v. 280; p. 749.
Kopf, John C., Bellevue borough, assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Spiral-gear-cutting machine. No. 1,361,161; Dec. 7; v. 281; p. 36.
Kopf, John C., Bellevue, and F. H. Schwerin, West View borough, assignors to The Duff Manufacturing Company, Pittsburgh, Pa. High-speed jack. No. 1,329,665; Feb. 3; v. 271; p. 60.
Kopf, Melrose G., assignor to The Ralko Products Company, Dayton, Ohio. Supporting-bracket for fire-extinguishers and the like. No. 1,337,234; Apr. 20; v. 273; p. 424.
Koppe, Earl W., Kingman, Ariz. Lathe attachment for grinding cylinders. No. 1,361,736; Dec. 7; v. 281; p. 152.
Koppel Industrial Car and Equipment Company. (See Hansen, Karl H., assignor.)
Koppelman, Harold I. (See Bruder, Edmund, assignor.)
Koppers Company, The. (See Becker, Joseph, assignor.)
Koppers Company, The. (See Darrin, Marc, assignor.)
Koppers Company, The. (See Koppers, Heinrich, assignor.)
Koppers Company, The. (See Rust, William F., assignor.)
Koppers Company, The. (See Williams, William L., Jr., assignor.)
Koppers Development Corporation, The. (See Koppers, Heinrich, assignor.)
Koppers, Heinrich, Essen-on-the-Ruhr, Germany, assignor to The Koppers Development Corporation. Cupola treatment of metals. No. 1,357,780; Nov. 2; v. 280; p. 110.
Koppers, Heinrich, Essen-on-the-Ruhr, Germany, assignor to The Koppers Development Corporation. Blast treatment of metals. No. 1,357,781; Nov. 2; v. 280; p. 111.
Koppers, Heinrich, Essen-on-the-Ruhr, Germany, assignor to The Koppers Development Corporation. Crucible treatment of metals. No. 1,357,782; Nov. 2; v. 280; p. 111.
Koppers, Heinrich, Essen-on-the-Ruhr, Germany, assignor, by mesne assignments, to The Koppers Company. Increasing the efficiency and the yield of ammonia in gas-producers. No. 1,360,117; Nov. 23; v. 280; p. 722.
Koppitz, Carl G., assignor to Railway and Industrial Engineering Company, Greensburg, Pa. Field-magnet frame. No. 1,327,619; Jan. 13; v. 270; p. 199.
Kopplin, Otto E., Marion, Tex. Crank-axle adjustment. No. 1,343,268; June 15; v. 275; p. 441.
Kopriva, Alvis F. (See Kopriva, Charles J., assignor.)
Kopriva, Charles J., New York, assignor to A. F. Kopriva, Stony Brook, N. Y. Ax. No. 1,339,357; May 4; v. 274; p. 130.
Kops Bros. (See Kops, Waldemar, assignor.)
Kops, Daniel, New York, N. Y. Apparel-corset. No. 1,328,086; Jan. 13; v. 270; p. 287.
Kops, Daniel, New York, N. Y. Apparel-corset. No. 1,328,675; Jan. 20; v. 270; p. 435.
Kops, Waldemar, assignor to Kops Bros., New York, N. Y. Brassière. No. 1,352,974; Sept. 14; v. 278; p. 282.
Koranek, John, assignor to E. Toman and Company, Chicago, Ill. Drill-holder. No. 1,362,012; Dec. 14; v. 281; p. 254.
Korb, Frederick W., Cleveland, Ohio. Bur-stand. No. 1,357,063; Oct. 26; v. 279; p. 653.
Korcek, Dominik, Ellsworth, Pa. Shoe-cleaner. No. 1,357,641; Nov. 2; v. 280; p. 83.
Korenge, Alexander, *et al.* (See Sussis, Bernhard A., assignor.)
Koretsky, Harry M., Brooklyn, N. Y. Portable hand-lamp. No. 1,353,348; Sept. 21; v. 278; p. 414.
Koretzky, Harry M., assignor to J. Satlow, Brooklyn, N. Y. Lamp and reflector holder for flash-lights. No. 1,333,427; Mar. 9; v. 272; p. 288.
Korff, Frederick H., Brooklyn, and S. H. Humphrey, New York, N. Y. Adjustable cutter. No. 1,349,967; Aug. 17; v. 277; p. 483.
Korhonen, John, Englewood, N. J. Snowplow. No. 1,328,157; Jan. 13; v. 270; p. 301.
Korinek, Gustav, Detroit, Mich. Jointed arm for filing-machines and similar devices. No. 1,361,074; Dec. 7; v. 281; p. 19.
Korkosz, Stanislaw, Rotterdam, N. Y. Valve. No. 1,331,439; Feb. 17; v. 271; p. 491.
Korkus, Maciej, Providence, R. I. Laundry-hanger. No. 1,351,335; Aug. 31; v. 277; p. 658.
Kormann, Frederick A., New York, assignor to W. F. Hull, Brooklyn, N. Y. Petroleum reduction. No. 1,332,849; Mar. 2; v. 272; p. 129.
Korn, Chester F., Cincinnati, Ohio. Combined compass and clock. No. 1,355,343; Oct. 12; v. 279; p. 230.
Korn, Joseph, Newark, N. J. Crease-retaining device for hats. No. 1,352,975; Sept. 14; v. 278; p. 282.
Kornaszewski, Waclaw, Detroit, Mich. Combined table and seat. No. 1,342,387; June 1; v. 275; p. 150.
Kornfeld, Charles, New York, N. Y. Manufacturing caps. No. 1,350,868; Aug. 24; v. 277; p. 703.
Kornfeld, Charles, New York, N. Y. Cap. No. 1,350,869; Aug. 24; v. 277; p. 703.
Kornicker, Arnold, New York, N. Y. Sign. No. 1,359,510; Nov. 23; v. 280; p. 601.
Kornstein, Ulrich, New York, N. Y. Hair-drying comb. No. 1,329,301; Jan. 27; v. 270; p. 581.
Kornsweet, Samiel A., Los Angeles, Calif. Sanitary ice-cream-cone holder. No. 1,338,833; May 4; v. 274; p. 34.
Kornsweet, Samiel A., Los Angeles, Calif. Cornucopia-serving device. No. 1,349,135; Aug. 10; v. 277; p. 247.
Korob, Albert S., Chicago, Ill. Gripper for printing-presses. No. 1,353,808; Sept. 21; v. 278; p. 505.

Digitized by Google

Alphabetical list of patentees—Continued.

Kors, Charles H., Poughkeepsie, N. Y. Automatically-closing receptacle. No. 1,350,816; Aug. 24; v. 277; p. 694.
Kors, Charles H., Philadelphia, Pa. Utensil-cover holder. No. 1,350,817; Aug. 24; v. 277; p. 695.
Korthals-Altes, Willem C., Schenectady, N. Y., assignor to General Electric Company. Alternating-current motor. No. 1,328,525; Jan. 20; v. 270; p. 407.
Korthals-Altes, Willem C., Schnectady, N. Y., assignor to General Electric Company. Alternating-current motor. No. 1,347,783; July 27; v. 276; p. 663.
Korthals-Altes, Willem C., Schenectady, N. Y., assignor to General Electric Company. Compensated series alternating-current motor. No. 1,359,855; Nov. 23; v. 280; p. 669.
Kory, Joseph N., Denver, Colo. Sample-carrier. No. 1,328,167; Jan. 13; v. 270; p. 302.
Korzeniewski, Czeslaw, and S. Chojnacki, Cleveland, Ohio. Fuel-oil burner. No. 1,327,763; Jan. 13; v. 270; p. 227.
Kosenko, Vasily, New Brunswick, N. J. Automatic beet-puller. No. 1,354,111; Sept. 28; v. 278; p. 611.
Kosich, Mark, New York, N. Y. Permutation-lock. No. 1,343,145; June 8; v. 275; p. 354.
Kosinski, Stanislaw, assignor of one-half to F. A. Taberski, Schenectady, N. Y. Cue-tip. No. 1,349,069; Aug. 10; v. 277; p. 234.
Kosminsky, Isaac J., Texarkana, Tex. Funnel. No. 1,358,218; Nov. 9; v. 280; p. 257.
Kossmann, Max, Brooklyn, N. Y. Lamp-shade holder. No. 1,328,331; Jan. 20; v. 270; p. 370.
Kossmann, Max, Brooklyn, N. Y. Adjustable lamp-sup port. No. 1,346,659; July 13; v. 276; p. 325.
Kost, Stephen A., Buffalo, N. Y., assignor to Excello Manufacturing Company, Cleveland, Ohio. Glazing apparatus. No. 1,363,602; Dec. 28; v. 281; p. 655.
Kost, Stephen A., and W. Yaeger, Buffalo, N. Y., assignors to The Quality Brands Company, Cleveland, Ohio. Glazing-machine. No. 1,342,450; June 8; v. 275; p. 216.
Kosteck, Nicholas P., Pitkin, Colo. Collapsible crate. No. 1,358,562; Nov. 9; v. 280; p. 326.
Kostka, John, Cleveland, Ohio. Cigar and cigarette box. No. 1,345,935; July 6; v. 276; p. 120.
Kostko, Jaroslaw K., St. Louis, Mo. Dynamo-electric machine. No. 1,353,658; Sept. 21; v. 278; p. 477.
Kostlan, Frank, Traer, Iowa. Hinge. No. 1,341,374; May 25; v. 274; p. 719.
Kotchi, Charles. (See Knoll, R. C., Rode, and Kotchi.)
Kotecki, James T., Chicago, Ill. Vehicle-signal. No. 1,356,635; Oct. 26; v. 279; p. 569.
Kothny, Gottdank L. E., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control-valve for refrigerating apparatus. No. 1,343,975; June 22; v. 275; p. 645.
Kotschevar, Henry J., Minneapolis, Minn. Gas-generating apparatus. No. 1,357,998; Nov. 9; v. 280; p. 213.
Kottinger, Victor A., San Jose, Calif. Lathe-center. No. 1,358,103; Nov. 9; v. 280; p. 246.
Kottman, Josephine C., Brooklyn, N. Y. Grater attachment. No. 1,349,616; Aug. 17; v. 277; p. 415.
Koukol, Clement J. (See Blackwell, Shaw, and Koukol.)
Kouns, Wesley, Salina, Kans. Hay-rake. No. 1,362,425; Dec. 14; v. 281; p. 334.
Kousnetzoff, Nicholas, and E. M. Kouzmin, New York, N. Y. Typewriting-machine. No. 1,328,158; Jan. 13; v. 270; p. 301.
Kouzmin, Eugene M. (See Kousnetzoff and Kouzmin.)
Kovach, John J., La Belle, Pa. Station-indicator. No. 1,349,160; Aug. 10; v. 277; p. 252.
Kovács, Louis. (See Sztary, J., and Kovács.)
Kovacs, Louis, Throop, Pa. Aeroplane safety device. No. 1,346,214; July 13; v. 276; p. 236.
Koval, Martin M., Hellwood, Pa., assignor of one-half to Frank Muller, Warren, Ohio. Station-indicator. No. 1,351,523; Aug. 31; v. 277; p. 895.
Kovzovich, Vincent J., assignor of one-half to J. Letsky, New Britain, Conn. Automobile signaling device. No. 1,337,405; Apr. 20; v. 273; p. 457.
Koyama, Spady S., Molson, Wash. Ship's chair. No. 1,358,640; Nov. 9; v. 280; p. 342.
Koza, Zuzana, Akron, Ohio. Parachute. No. 1,349,513; Aug. 10; v. 277; p. 322.
Kozak, John, Milwaukee, Wis. Trolley-retriever. No. 1,336,966; Apr. 13; v. 273; p. 299.
Kozar, Ladislav O., Middletown, Pa. Synchronizing apparatus. No. 1,362,876; Dec. 21; v. 281; p. 474.
Kozik, Joseph, U. S. Army. Protecting screen or shield. No. 1,344,588; June 22; v. 275; p. 766.
Kozik, Stanislaw, Indian Head, Md. Furniture-caster. No. 1,327,920; Jan. 13; v. 270; p. 256.
Kozlowski, Michael, Milwaukee, Wis. Clothes-tree. No. 1,358,756; Nov. 16; v. 280; p. 410.
Kozub, Louis J., Pittsburgh, Pa. Adjustable bearing. No. 1,361,471; Dec. 7; v. 281; p. 100.
Krabec, Joseph, Chicago, Ill. Driving mechanism for washing-machines. No. 1,357,999; Nov. 9; v. 280; p. 214.
Kraber, George L., Portland, Oreg., assignor, by mesne assignments, to The Turbine Air Tool Company, Cleveland, Ohio. Knife-securing means for cutter-heads. No. 1,346,215; July 13; v. 276; p. 236.
Krabol, Olaus O., Chicago, Ill. Revolving chair. No. 1,332,402; Mar. 2; v. 272; p. 44.
Kraemer, Milton, trustee, *et al.* (See Geoghegan, Edward A., assignor.)
Kraetsch, Paul H., Astoria, Oreg. Leafless photograph-album. No. 1,336,438; Apr. 13; v. 273; p. 198.
Krafft, Alfred, Honolulu, Hawaii. Direct macerating and juice-straining system. No. 1,353,349; Sept. 21; v. 278; p. 414.
Krafka, Stefan, Chicago, Ill. Window-lock. No. 1,329,977; Feb. 3; v. 271; p. 118.
Kraft, Alfred. (See Corpee, A., and Kraft.)
Kraft, Carl, assignor of one-half to L. S. Gatter, New York, N. Y. Telephone-receiver. No. 1,331,469; Feb. 17; v. 271; p. 497.
Kraft, Henry P. (See Schweinert and Kraft.)
Kraft, Henry P., Ridgewood, N. J. Valve. No. 1,329,776; Feb. 3; v. 271; p. 80.
Kraft, Henry P., Ridgewood, N. J. Swivel-nut. No. 1,330,594; Feb. 10; v. 271; p. 264.
Kraft, Henry P., Ridgewood, N. J. Packing-washer for caps or the like. No. 1,354,201; Sept. 28; v. 278; p. 629.
Kraft, Henry P., Ridgewood, N. J. Dust-cap. No. 1,357,500; Nov. 2; v. 280; p. 56.
Kraft, Henry P., Ridgewood, N. J. Making tire-valves. No. 1,359,075; Nov. 16; v. 280; p. 471.
Kraft, Henry P., Ridgewood, N. J. Inflating-coupling. No. 1,362,804; Dec. 21; v. 281; p. 460.
Kraft, Henry P., Ridgewood, N. J., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Spreader for pneumatic tires. No. 1,358,641; Nov. 9; v. 280; p. 342.
Kraft, Herman T., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Manifold. No. 1,362,578; Dec. 14; v. 281; p. 364.
Kraft, James L., Chicago, Ill. Sterilizing and packaging cheese. No. 1,350,870. Aug. 24; v. 277; p. 704.
Kraft, Jens E., Groveland, Calif. Sight for firearms. No. 1,344,639; June 29; v. 275; p. 841.
Krafve, William, Fall River, Mass. Spring. No. 1,354,978; Oct. 5; v. 279; p. 106.
Krag-Möller, Karl K., Frederiksberg, Denmark. Hand-generator. No. 1,333,119; Mar. 9; v. 272; p. 231.
Krag, Nils A. (See Rösholt, Nils, assignor.)
Krah, Harry. (See Hutchison, A. E., and Krah.)
Krajnah, Michael, and J. Madunicky, Danbury, Conn. Machine for hardening hats. No. 1,343,729; June 15; v. 275; p. 532.
Krakowsky, George, South Bend, Ind. Locomotive. No. 1,361,877; Dec. 14; v. 281; p. 226.
Kraliček, Cyrill, Chicago, Ill. Automatic organ. No. 1,350,818; Aug. 24; v. 277; p. 695.
Krall, Peter W., Cleveland, Ohio. Contact-slide for welding-machines. No. 1,360,118; Nov. 23; v. 280; p. 722.
Krall, Richard H., Philadelphia, Pa. Panel-receptacle for furniture. No. 1,333,853; Mar. 16; v. 272; p. 429.
Kralund, John, assignor to Doehler Die Casting Company, Brooklyn, N. Y. Making molds for finished castings. No. 1,335,509; Mar. 30; v. 272; p. 847.
Kramer, Andrew A. (See Livengood, Winfield S., assignor.)
Kramer, Andrew A., Kansas City, Mo. Tank construction. No. 1,341,214; May 25; v. 274; p. 688.
Kramer, Andrew A., Kansas City, Mo. Vehicle-tank construction. No. 1,341,215; May 25; v. 274; p. 688.
Kramer, Andrew A., Kansas City, Mo. Tank construction. No. 1,341,216; May 25; v. 274; p. 688.
Kramer, Andrew A., Kansas City, Mo. Can-rack. No. 1,351,253; Aug. 31; v. 277; p. 841.
Kramer, Benjamin G., assignor to C. G. Fisher and J. A. Allison, Indianapolis, Ind. Brake mechanism. No. 1,344,003; June 22; v. 275; p. 651.
Kramer, Francis J., Niles, assignor of one-half to J. Whitaker, Warren, Ohio. Building-block. No. 1,363,045; Dec. 21; v. 281; p. 507.
Kramer, George, Dysart, Iowa. Weed-destroyer. No. 1,354,043; Sept. 28; v. 278; p. 597.
Kramer, Gustav A., assignor, by mesne assignments, to Balsa Refrigerator Corporation, New York, N. Y. Lubricant-leakage-preventing device for compressors. No. 1,345,372; July 6; v. 276; p. 9.
Kramer, H. & Co. (See Parkhurst, Layton M., assignor.)
Kramer, John S., Steger, Ill. Talking-machine. No. 1,352,901; Sept. 14; v. 278; p. 267.
Kramer, John S., Steger, Ill. Locking device for drawers. No. 1,352,902; Sept. 14; v. 278; p. 267.
Kramer, Louis A., Chicago, Ill. Carcass-dehairing machine. No. 1,336,524; Apr. 13; v. 273; p. 214.
Kramer, William H., Newcastle, Ind. Saw-filing device. No. 1,328,159; Jan. 13; v. 270; p. 301.
Krannich, Emil A., Columbiana, Ohio, assignor of one-half to L. A. Andregg, Mansfield, Ohio. Tire-core. No. 1,328,676; Jan. 20; v. 270; p. 435.
Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Safety-switch mechanism. No. 1,342,219; June 1; v. 275; p. 120.
Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Safety panel-box. No. 1,342,545; June 8; v. 275; p. 235.
Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Multiple-unit safety-switchboard. No. 1,342,546; June 8; v. 275; p. 235.

Digitized by Google

Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Multiple-unit safety-switchboard. No. 1,342,547; June 8; v. 275; p. 236.
Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Switch mechanism. No. 1,342,548; June 8; v. 275; p. 236.
Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Switch mechanism with door-interlock. No. 1,342,549; June 8; v. 275; p. 236.
Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Switch-locking safety-panel. No. 1,342,550; June 8; v. 275; p. 236.
Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Double-throw switch. No. 1,363,658; Dec. 28; v. 281; p. 665.
Krantz Manufacturing Company. (See Krantz, Hubert F., assignor.)
Krantz, Max, Brooklyn, N. Y. Frame. No. 1,356,375; Oct. 19; v. 279; p. 472.
Kranz, Herman L., Brooklyn, N. Y. Pocket tool-holder. No. 1,336,083; Apr. 6; v. 273; p. 72.
Krapf, Charles H., Brooklyn, N. Y. Adjustable and releasing guard for slicing-knives. No. 1,342,292; June 1; v. 275; p. 133.
Krasa, Albert, Chicago, Ill. Yarn-dyer. No. 1,328,435; Jan. 20; v. 270; p. 389.
Krashowetz, Frank, Eddyville, Iowa. Brake mechanism for mining-cars. No. 1,333,320; Mar. 9; v. 272; p. 269.
Krasmauskis, Veronika, Chicago, Ill. Hair-dressing attachment. No. 1,351,427; Aug. 31; v. 277; p. 876.
Krason, Stanley, Gary, Ind. Bank-box. No. 1,333,177; Mar. 9; v. 272; p. 242.
Krathwohl, Charles W., and J. F. Coveny, Chicago, Ill. Ladder. No. 1,332,262; Mar. 2; v. 272; p. 16.
Krathwohl, Charles W., and J. F. Coveny, assignors to Krathwohl Manufacturing Company, Chicago, Ill. Ladder. No. 1,357,171; Oct. 26; v. 279; p. 674.
Krathwohl Manufacturing Company. (See Krathwohl, C. W., and Coveny, assignors.)
Kratochvil, Edwin J., Bancroft, Nebr. Air-washer. No. 1,345,681; July 6; v. 276; p. 69.
Kratz, Franz, assignor to Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Rolled condenser for sparking apparatus. No. 1,328,925; Jan. 27; v. 270; p. 512.
Kratz, Roy G., Omaha, assignor to L. C. Sharp, Plattsmouth, Nebr. Releasing cup-pastry from molds. No. 1,329,086; Jan. 27; v. 270; p. 541.
Krauer, Joseph, Heaton Chapel, near Manchester, England. Apparatus for treatment of loss of hair on the head. No. 1,343,512; June 15; v. 275; p. 488.
Kraus, David, New York, N. Y. Motor-vehicle. No. 1,347,279; July 20; v. 276; p. 506.
Kraus Engine Company. (See Kraus, Otto, assignor.)
Kraus, Otto, assignor to Kraus Engine Company, New York, N. Y. Constant-level oil-tank. No. 1,357,877; Nov. 2; v. 280; p. 129.
Krausch, Walter T., La Grange, Ill. Storage structure. No. 1,356,155; Oct. 19; v. 279; p. 429.
Krause, Arndt M., assignor to Central Scientific Company, Chicago, Ill. Mercurial barometer. No. 1,353,482; Sept. 21; v. 278; p. 440.
Krause, Carl. (See Glockemeier, Georg, assignor.)
Krause, Frank F., Mansfield, Wash. Water-cooling pump for internal-combustion engines. No. 1,359,389; Nov. 16; v. 280; p. 532.
Krause, George E., Canton, Ohio. Box. No. 1,335,787; Apr. 6; v. 273; p. 16.
Krause, Norman R., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Automatic friction-clutch. No. 1,330,193; Feb. 10; v. 271; p. 190.
Krause, William P., assignor to Mumford Molding Machine Company, Chicago, Ill. Plunger-guide construction. No. 1,328,526; Jan. 20; v. 270; p. 407.
Krause, William P., Chicago, Ill., assignor to Mumford Molding Machine Company, Jersey City, N. J. Molding-machine. No. 1,328,527; Jan. 20; v. 270; p. 408.
Krause, William P., Chicago, Ill., assignor to Mumford Molding Machine Company. Molding-machine. No. 1,340,658; May 18; v. 274; p. 511.
Krause, William S., North La Junta, Colo. Demountable rim. No. 1,342,118; June 1; v. 275; p. 99.
Kraushaar, Peter, Montebello, Calif. Phonograph table-cabinet. No. 1,343,622; June 15; v. 275; p. 510.
Krauss, Adolf. (See Honold and Krauss.)
Krauss, Adolf, Cannstatt, Germany, assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Mechanical interrupter for electric ignition systems. No. 1,337,456; Apr. 20; v. 273; p. 466.
Krauss, Hans G., Munich, Germany. Machine-tool. No. 1,344,236; June 22; v. 275; p. 695.
Krauss, Max, Philadelphia, Pa. Talking-machine. No. 1,341,751; June 1; v. 275; p. 27.
Krauss, Max, assignor to F. E. Barr, trustee, Philadelphia, Pa. Sound-box. No. 1,359,713; Nov. 23; v. 280; p. 641.
Kraut, Max, assignor to Southwestern Engineering Company, Los Angeles, Calif. Oil-feeder. No. 1,358,857; Nov. 16; v. 280; p. 430.
Krauth, Albert, deceased, Hamilton, Ohio; F. G. Diesbach, administrator. Manifolding-machine. No. 1,333,082; Mar. 9; v. 272; p. 225.
Krauth, Albert, deceased, Hamilton, Ohio; F. G. Diesbach, administrator. Manifolding-machine. No. 1,333,083; Mar. 9; v. 272; p. 225.
Krauth, Albert, deceased, Hamilton, Ohio; F. G. Diesbach administrator. Manifolding-machine. No. 1,338,140; Apr. 27; v. 273; p. 666.
Krautter, William F., Chicago, Ill., assignor to International Time Recording Company of New York. Relay. No. 1,330,124; Feb. 10; v. 271; p. 178.
Krebs, Emil, Clearwater, Nebr. Toy plow. No. 1,329,666; Feb. 3; v. 271; p. 60.
Krebs, Frederick H., Frederiksberg, near Copenhagen, Denmark. Device for attachment of electric conductors to insulators. No. 1,346,128; July 13; v. 276; p. 220.
Krebs, John C. L. (See Wells, Walter W., assignor.)
Krèe, Paul M., and F. Dauteuil, New York, N. Y. Automatic stop and start for phonographs. No. 1,339,203; May 4; v. 274; p. 102.
Krehbiel Company. (See Hertel, Otto H., assignor.)
Kreipke, Herman C., Los Angeles, Calif. Antiskidding device. No. 1,330,480; Feb. 10; v. 271; p. 243.
Kreisler, Jacques, New York, N. Y. Jeweler's torch. No. 1,362,877; Dec. 21; v. 281; p. 474.
Krejčí, Milo W., Chicago, Ill., and G. E. Johnson, Hammond, Ind. Diaphragm for electrolytic cells. No. 1,358,858; Nov. 16; v. 280; p. 430.
Krell, George K. (See Brandt, F. H. G., and Krell.)
Kremeniůk, Mytro, Virginia, Minn. Leather-strap cutter. No. 1,359,812; Nov. 23; v. 280; p. 661.
Kremer, Franklin W., Rutherford, N. J. Tire. No. 1,328,632; Jan. 20; v. 270; p. 427.
Kremer, Theodore C., assignor to Lightning Coupler Link Company, Sharpsburg borough, Pa. Multiple coupling. No. 1,348,811; Aug. 3; v. 277; p. 131.
Krenz, Rudolph, assignor of one-half to F. H. Frissell, Middletown, Conn. Machine for loading machine-gun cartridge-belts. No. 1,339,204; May 4; v. 274; p. 103.
Kreplin, Charles A., Enid, Okla. Necktie-clasp. No. 1,350,612; Aug. 24; v. 277; p. 655.
Krepps, Harry, Lewistown, Pa. Boring-head. No. 1,341,565; May 25; v. 274; p. 756.
Kresky, Theron J., assignor to E. C. Newton, Marysville, Calif. Magneto-governor. No. 1,339,655; May 11; v. 274; p. 264.
Kress, Willard C., Buffalo, N. Y. Pneumatic transmission for automobiles. No. 1,349,161; Aug. 10; v. 277; p. 252.
Kretek, Frank F. (See Jezik, Joseph J., assignor.)
Kreutter, Frederick W., Attica, N. Y. Evaporator. No. 1,358,165; Nov. 9; v. 280; p. 246.
Kreutz, Oscar. (See Baisch, R., and Kreutz.)
Krey, Carl, Battle Creek, Mich. Cradle. No. 1,336,302; Apr. 6; v. 273; p. 113.
Krick, George W., Los Angeles, Calif. Rear-sight mirror for vehicles. No. 1,363,608; Dec. 28; v. 281; p. 655.
Krickel, Louis H. (See Schulze, C., and Krickel.)
Krickel, Louis H., Monroe, La. Hairpin. No. 1,353,350; Sept. 21; v. 278; p. 414.
Krickel, Louis H., Monroe, La. Demountable rim. No. 1,363,604; Dec. 28; v. 281; p. 655.
Krickel, Louis H., assignor of 7½ per cent. to C. Schultze, 7½ per cent. to R. Downs, 7½ per cent. to H. M. Howell, 7½ per cent. to J. E. Doughtie, 7½ per cent. to E. L. Owens, and 7½ per cent. to S. C. Blackmon, Monroe, La. Wheel. No. 1,358,757; Nov. 16; v. 280; p. 410.
Krider, Artha A., Shirley, Ind. Cleaning-off machine. No. 1,329,841; Feb. 3; v. 271; p. 93.
Krieg, John C., and F. Fishbaugh, Newark, Ohio. Composition heel. No. 1,331,713; Feb. 24; v. 271; p. 564.
Krieg, Theodore F., Detroit, Mich. Fuel-oil burner. No. 1,339,358; May 4; v. 274; p. 131.
Kriegel, Thomas A., Chicago, Ill. Trousers-presser. No. 1,356,724; Oct. 26; v. 279; p. 587.
Krieger, Georg F., Grand Rapids, Wis. Boring-bracket. No. 1,332,731; Mar. 2; v. 272; p. 106.
Krieger, John T., assignor to Lincoln Steel and Forge Company, St. Louis, Mo. Car-axle mounting. No. 1,347,280; July 20; v. 276; p. 506.
Kriel, John J. and O. J. Taylor, Tex. Cotton-chopper. No. 1,340,057; May 11; v. 274; p. 339.
Kriel, Otto J. (See Kriel, John J. and O. J.)
Kries, Lawrence F., Baltimore, Md., assignor to Westinghouse Electric & Manufacturing Co., East Pittsburgh, Pa. Electric switch and fuse box. No. 1,351,043; Aug. 31; v. 277; p. 800.
Kries, Lawrence F., assignor to C. M. Marshall, trustee, Baltimore, Md. Cartridge-fuse. No. 1,353,123; Sept. 14; v. 278; p. 310.
Kriger, Myer, New York, N. Y. Waterproof garment. No. 1,329,777; Feb. 3; v. 271; p. 80.
Kring, Levi, Westerville, Ohio. Tractor. No. 1,328,839; Jan. 27; v. 270; p. 494.
Kring, Olof O. (See Stålhane, O., and Kring.)
Krippendorf Kalculator Company. (See Krippendorf, Paul F. W. C., assignor.)
Krippendorf, Paul F. W. C., Lynn, Mass., assignor to Krippendorf Kalculator Company, Portland, Me. Manufacture of lasts. No. 1,335,062; Mar. 30; v. 272; p. 764.
Krippendorf, Paul F. W. C., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Last and last-making. No. 1,352,518; Sept. 14; v. 278; p. 190.

Digitized by Google

Kristek, Emmerich H. (See Reardon and Kristek.)
Kristen, Charles, Chicago, Ill. Pencil, pen, and cigar-holder. No. 1,334,616; Mar. 23; v. 272; p. 619.
Kristen, Charles, Chicago, Ill. Pocket-clip for pen and pencil holders. No. 1,334,617; Mar. 23; v. 272; p. 619.
Kristofek, Frank J. (See Fischer, H. L., and Kristofek.)
Kristofek, Frank J. (See Fischer, Howard L., assignor.)
Kristofek, Frank J., assignor to Brown & Bigelow, St. Paul, Minn. Match-box. No. 1,341,139; May 25; v. 274; p. 673.
Kristofek, Frank J., assignor to Brown & Bigelow, St. Paul, Minn. Match-box. No. 1,341,140; May 25; v. 274; p. 673.
Kristofek, Frank J., assignor to Brown & Bigelow, St. Paul, Minn. Desk-pad and calendar-holder. No. 1,347,225; July 20; v. 276; p. 494.
Kristofek, Frank J., assignor to Brown & Bigelow, St. Paul, Minn. Pencil. No. 1,360,230; Nov. 23; v. 280; p. 743.
Kristofek, Frank J., and H. L. Fischer, St. Paul, Minn. Pencil. No. 1,351,916; Sept. 7; v. 278; p. 41.
Kristofek, Frank J., and H. L. Fischer, assignors to Brown & Bigelow, St. Paul, Minn. Pencil. No. 1,353,352; Sept. 21; v. 278; p. 415.
Kritikson, John, assignor to Illinois Pen Company, Chicago, Ill. Penholder-clip. No. 1,339,359; v. 274; p. 131.
Kritz, Frank, Detroit, Mich. Tube-welding machine. No. 1,363,326; Dec. 28; v. 281; p. 602.
Krivosky, Frank, and J. Stoykovich, Akron, Ohio. Washer-setter for rubber-heel molds. No. 1,344,237; June 22; v. 275; p. 695.
Kriwan, Arnold, Marlendorf, near Berlin, Germany. Rolling-mill with supported working rolls. No. 1,360,959; Nov. 30; v. 280; p. 954.
Kroedel, Robert, assignor to Eastman Kodak Company, Rochester, N. Y. Film-winding mechanism. No. 1,335,742; Apr. 6; v. 278; p. 7.
Kroedel, Robert, assignor to Eastman Kodak Company, Rochester, N. Y. Tripod-adapter. No. 1,357,639; Nov. 2; v. 280; p. 83.
Kroedel, Robert, assignor to Eastman Kodak Company, Rochester, N. Y. Photographic-film-winding mechanism. No. 1,360,538; Nov. 30; v. 280; p. 872.
Krogh, Carl A., *et al.*, administrators. (See Krogh, Ferdinand W.)
Krogh, Ferdinand W., San Francisco, Calif. Sand-protecting device for turbine-pumps. No. 1,328,234; Jan. 13; v. 270; p. 315.
Krogh, Ferdinand W., deceased, San Francisco, Calif.; C. A. Krogh and O. Poulsen, administrators. Deep-well propeller-screw pump. No. 1,342,551; June 8; v. 275; p. 236.
Krogh, Ferdinand W., deceased; C. A. Krogh, San Francisco, and O. Poulsen, Alameda, Calif., administrators. Centrifugal pump. No. 1,342,552; June 8; v. 275; p. 237.
Krohm, Nelson, Chicago, Ill., assignor to The Adams & Westlake Company. Sanitary car-hopper. No. 1,433,730; June 15; v. 275; p. 532.
Krohn, Alfred, Spokane, Wash. Fireless chicken-brooder. No. 1,327,104; Jan. 6; v. 270; p. 42.
Krohn, Herschel R., Wiggins, Miss. Tank. No. 1,361,591; Dec. 7; v. 281; p. 124.
Krohn, Nels, Chicago, Ill., assignor to The Adams & Westlake Company. Padlock. No. 1,348,884; Aug. 10; v. 277; p. 198.
Kroier, Waldemar, Jacksonville, Fla. Self-cleaning rake. No. 1,334,909; Mar. 23; v. 272; p. 676.
Krok, Josef, Bloomfield, N. J. Motorcycle and the like. No. 1,357,239; Nov. 2; v. 280; p. 8.
Kroll, Guillaume J., Luxemburg, Luxemburg. Production of alloys of alkaline-earth metals. No. 1,359,813; Nov. 23; v. 280; p. 661.
Krone, Ward E., Pittsfield, Mass., assignor to General Electric Company. Multiconducting leads. No. 1,337,080; Apr. 13; v. 273; p. 322.
Kronenberger, Ferdinand, New York, N. Y. Filler for shipping-packages. No. 1,331,509; Feb. 24; v. 271; p. 525.
Kronfeld, Gustav L. S., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Driving connection. No. 1,347,907; July 27; v. 276; p. 687.
Kronheim, Jacob, Cleveland, Ohio. Davenport-bed. No. 1,349,162; Aug. 10; v. 277; p. 252.
Kronman, Edward, New York, N. Y. Coffee-urn. No. 1,352,069; Sept. 7; v. 278; p. 69.
Kronquest, Alfred L., Chicago, Ill., assignor to Continental Can Company, Syracuse, N. Y. Detachable closure for containers. No. 1,355,151; Oct. 12; v. 279; p. 191.
Kronquest, Alfred L., Chicago, Ill., and J. C. Taliaferro, Baltimore, Md., assignors to Continental Can Co., Inc., Syracuse, N. Y. Can-closing machine. No. 1,348,650; Aug. 3; v. 277; p. 101.
Kroon, Arthur W., Glenellyn, Ill. Gate. No. 1,328,168; Jan. 13; v. 270; p. 303.
Kropacz, John, assignor of one-third to J. Jakubecz, Calgary, Alberta, Canada. Rail-support. No. 1,328,002; Jan. 13; v. 270; p. 271.
Kropacz, John, assignor of one-third to J. Jakuricz, Calgary, Alberta, Canada. Aeronautic device. No. 1,343,055; June 8; v. 275; p. 336.
Kropp, John A. (See Goodrum, C. L., and Kropp.)
Krotowych, Jhan, Lillian, W. Va. Window curtain and shade support. No. 1,353,122; Sept. 14; v. 278; p. 310.
Krotz, Alvaro S., Janesville, Wis. Rubber tire. No. 1,360,119; Nov. 23; v. 280; p. 722.
Kroupa, Lillian, Chicago, Ill. Bed. No. 1,329,612; Feb. 3; v. 271; p. 50.
Krouse, Charles C., Williamsport, Pa. Tanning. No. 1,338,307; Apr. 27; v. 273; p. 697.
Krouse, Charles C., Williamsport, Pa. Degreasing apparatus. No. 1,338,308; Apr. 27; v. 273; p. 697.
Krueger, Carl E., Glenwood Springs, Colo. Attachment to telephones. No. 1,339,518; May 11; v. 274; p. 237.
Krueger, Emil M., assignor to Badger Meter Manufacturing Company, Milwaukee, Wis. Water-meter spindle. No. 1,328,879; Jan. 27; v. 270; p. 503.
Krueger, Henry, *et al.* (See Heideman, Fred J., assignor.)
Kruesheld, Henry, assignor to The Perfection Electric Products Company, New Washington, Ohio. Electric heater. No. 1,363,206; Dec. 21; v. 281; p. 538.
Krug, William H., Oshkosh, Wis. Antiskid device. No. 1,330,194; Feb. 10; v. 271; p. 191.
Krug, William H., Fond du Lac, Wis. Means for securing antiskid-chains to vehicle-wheels. No. 1,330,876; Feb. 17; v. 271; p. 386.
Krüger, Franz, Berlin, Germany. Portable-cooker arrangement. No. 1,354,044; Sept. 28; v. 278; p. 597.
Kruger, Harry B. (See Stranders, Julien, assignor.)
Kruger, Henry B. (See Stranders, Julien, assignor.)
Kruger, Paul, Charleston, W. Va. Handcuff. No. 1,342,334; June 1; v. 275; p. 141.
Krüger, Paul, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Arrangement of rails for railway-guns. No. 1,361,472; Dec. 7; v. 281; p. 100.
Kruk Percussion Fuse Company. (See Kruk, Stanley, assignor.)
Kruk, Stanley, Clymer, assignor to Kruk Percussion Fuse Company, Latrobe, Pa. Percussion-fuse. No. 1,335,003; Mar. 30; v. 272; p. 753.
Krum, Charles L. and H. L., assignors to Morkrum Company, Chicago, Ill. Printing-telegraph. No. 1,360,231; Nov. 23; v. 280; p. 743.
Krum, Howard L. (See Krum, Charles L. and H. L.)
Krumland, Edward, Columbus, Nebr. Hauling attachment for automobiles. No. 1,353,762; Sept. 21; v. 278; p. 497.
Krupicka, Frank, Friend, Nebr. Feeding-trough for live stock. No. 1,356,636; Oct. 26; v. 279; p. 569.
Krupp, Leo A., assignor to The Buckeye Traction Ditcher Company, Findlay, Ohio. Excavating and grading machine. No. 1,347,860; July 27; v. 276; p. 678.
Krupsky, Nicolas, Chicago, Ill. Vehicle-wheel. No. 1,359,254; Nov. 16; v. 280; p. 505.
Kruschke, Alexander F., Melvin, Ill. Sign-board. No. 1,358,009; Nov. 9; v. 280; p. 214.
Kruse, August, Waimea, Hawaii. Sugar-cane mill. No. 1,331,016; Feb. 17; v. 271; p. 414.
Kruse, Edward H., Fort Wayne, Ind. Support for outlet-boxes. No. 1,354,309; Sept. 28; v. 278; p. 651.
Kruse, Ferdinand, New York, N. Y. Combined meat container and ejector. No. 1,350,160; Aug. 17; v. 277; p. 520.
Kruse, Ferdinand, New York, N. Y. Meat-presser. No. 1,350,161; Aug. 17; v. 277; p. 520.
Kruse, Ferdinand, New York, N. Y. Attachment for slicing-machines. No. 1,350,162; Aug. 17; v. 277; p. 520.
Kruse, Henry T., Gull Lake, Saskatchewan, Canada. Rail. No. 1,355,400; Oct. 12; v. 279; p. 241.
Kruse, John H., Sheldon, Iowa. No-fire circuit-breaker. No. 1,331,650; Feb. 24; v. 271; p. 552.
Kruse, Peter, assignor to E. W. Bliss Company, Brooklyn, N. Y. Machine for working on cans. No. 1,333,084; Mar. 9; v. 272; p. 225.
Kruse, Peter, assignor to E. W. Bliss Company, Brooklyn, N. Y. Can-making machine. No. 1,333,550; Mar. 9; v. 272; p. 312.
Kruse, Peter, assignor to E. W. Bliss Company, Brooklyn, N. Y. Horn-extension support. No. 1,362,805; Dec. 21; v. 281; p. 461.
Krusemark, Frederick A., L. G. Funkhouser, and H. G. Carpenter, assignors to K. F. & C. Tire & Rubber Corporation, Roanoke, Va. Cushion-tire. No. 1,344,346; June 22; v. 275; p. 718.
Krutal, John. (See Jasura, Peter, assignor.)
Kruth, William A., Minneapolis, Minn. Milk-bottle handle. No. 1,351,479; Aug. 31; v. 277; p. 887.
Krutsch, Willis W., Coffeyville, Kans., assignor of one-half to W. M. Harrison, Muskogee, Okla. Cushion-wheel. No. 1,335,245; Mar. 30; v. 272; p. 798.
Kryder, Frank L., Akron, Ohio. Reclaiming and regenerating rubber waste. No. 1,340,777; May 18; v. 274; p. 533.
Kryder, Frank L., Akron, Ohio. Cord-tire. No. 1,357,098; Oct. 26; v. 279; p. 660.
Kryder, Frank L., Akron, Ohio, and E. W. Snyder, Indianapolis, Ind. Apparatus for reclaiming rubber waste. No. 1,340,776; May 18; v. 274; p. 532.
Kryl, Joseph M., Chicago, Ill. Fire-escape. No. 1,346,787; July 13; v. 276; p. 351.
Kryvoshey, John. (See Chrobak, Kazimier, assignor.)

Digitized by Google

Kubanyi, Victor J. (See Jennings, Arthur V., assignor.)
Kubasta, Charles, assignor of one-half to B. W. Palmer, Detroit, Mich. Coil-forming apparatus. No. 1,334,704; Mar. 23; v. 272; p. 635.
Kubatzky, Otto, St. Louis, Mo. Weather-strip. No. 1,343,324; June 15; v. 275; p. 451.
Kubo, Masakichi, Tokyo, Japan, assignor to General Electric Company. Making cores for electrical apparatus. No. 1,345,786; July 6; v. 276; p. 90.
Kucab, Franciszek, Dayton, Ohio. Combination comb and brush. No. 1,356,637; Oct. 26; v. 279; p. 569.
Kuchler, John. (See Dickelmann and Kuchler.)
Kuck, William F., Bocaratone, Fla. Reversible brush. No. 1,345,198; June 29; v. 275; p. 947.
Kucki, Wincent S., Chicago, Ill. Phonograph. No. 1,352,282; Sept. 7; v. 278; p. 109.
Kuczynski, Stanislaw, assignor of one-half to B. Gruchacz, Natrona, Pa. Trolley-wheel guard. No. 1,357,642; Nov. 2; v. 280; p. 83.
Kuder, William H., Joliet, Ill. Drier. No. 1,363,130; Dec. 21; v. 281; p. 523.
Kuderer, Charles, Pittsburgh, Pa. Motorcycle back-rest. No. 1,342,388; June 1; v. 275; p. 151.
Kuderer, Charles, Pittsburgh, Pa. Motorcycle back-rest. No. 1,348,121; July 27; v. 276; p. 730.
Kudla, Peter, Thompsonville, Conn. Valve. No. 1,360,960; Nov. 30; v. 280; p. 954.
Kuebler, Elias. (See Bach, L., and Kuebler.)
Kuehlhorn, Arnold A., Chicago, Ill. Elevator attachment. No. 1,328,633; Jan. 20; v. 270; p. 427.
Kuehner, Arthur T., Elkridge, Md. Automatic cylinder-cock. No. 1,354,979; Oct. 5; v. 279; p. 106.
Kuehner, Herman R., Camden, N. J. Ball-cock. No. 1,361,878; Dec. 14; v. 281; p. 226.
Kuehner, Herman R., Camden, N. J. Ball-cock. No. 1,361,879; Dec. 14; v. 281; p. 227.
Kuen, Eugene A., assignor to The Thos. J. Corcoran Lamp Company, Cincinnati, Ohio. Fastening device for automobile-lamp closures. No. 1,334,762; Mar. 23; v. 722; p. 647.
Kuenhold, Otto J., assignor to The Scientific Heater Company, Cleveland, Ohio. Garage-heater. No. 1,329,716; Feb. 3; v. 271; p. 69.
Kuenneth, George W., Paterson, N. J. Beaming mechanism. No. 1,362,165; Dec. 14; v. 281; p. 283.
Kueny, Friedrich A., Mülhausen, Germany. Weft-replenishing mechanism for looms. No. 1,347,700; July 27; v. 276; p. 646.
Kuenzler, Walter. (See Jaeger, H., and Kuenzler.)
Kuever, Rudolph A. (See Dunlap, F. L., and Kuever.)
Kugler, Charles H., Cozad, Nebr. Tractor. No. 1,343,783; June 15; v. 275; p. 543.
Kugler, Earl W. (See Kugler, James R., and E. W.)
Kugler, James R., and E. W., Clear Lake, Iowa, assignors to P. Hauenstein, Minneapolis, and C. C. Kastenholz, St. Paul, Minn. Electric retouching-pencil. No. 1,352,976; Sept. 14; v. 278; p. 282.
Kuhajda, Joseph, New York, N. Y. Submarine vessel. No. 1,356,294; Oct. 19; v. 279; p. 457.
Kuhl, Charles P., Grinnell, Kans. Snap-hook or shackle. No. 1,363,516; Dec. 28; v. 281; p. 638.
Kuhlman, Herman D., Omaha, Nebr. Lubricator. No. 1,331,651; Feb. 24; v. 271; p. 552.
Kuhlmann, Wesley W., Woodcliff-on-Hudson, N. J. Automobilist's caution-signal. No. 1,346,714; July 13; v. 276; p. 335.
Kuhn, Adam M., assignor of one-third to C. M. Kuhn and one-third to J. E. Herman, Kearney, Nebr. Ball-and-socket joint. No. 1,337,235; Apr. 20; v. 273; p. 425.
Kuhn, Anna O., San Francisco, Calif. Aseptic appliance. No. 1,351,917; Sept. 7; v. 278; p. 41.
Kuhn, Bert M., Bloomington, Ill. Drier. No. 1,330,195; Feb. 10; v. 271; p. 191.
Kuhn, Charles M., *et al.* (See Kuhn, Adam M., assignor.)
Kuhn, Clarence A., Forks, N. Y. Crank-shaft. No. 1,337,081; Apr. 13; v. 273; p. 322.
Kuhn, F., and J. A. Hand, assignors to American Electrical Heater Company, Detroit, Mich. Electric water-heater. No. 1,363,472; Dec. 28; v. 281; p. 629.
Kuhn, F., L. H. Thomas, and J. G. Spiess, assignors to American Electrical Heater Company, Detroit, Mich. Electrically-heated tool. No. 1,363,473; Dec. 28; v. 281; p. 629.
Kuhn, F., L. H. Thomas, and J. G. Spiess, assignors to American Electrical Heater Company, Detroit, Mich. Electrically-heated tool. No. 1,363,474; Dec. 28; v. 281; p. 629.
Kuhn, Frank, and J. A. Hand, assignors to American Electrical Heater Company, Detroit, Mich. Electric cooker. No. 1,330,877; Feb. 17; v. 271; p. 387.
Kuhn, Frank, and J. A. Hand, assignors to American Electrical Heater Company, Detroit, Mich. Electric percolator. No. 1,359,390; Nov. 16; v. 280; p. 532.
Kuhn, Frank, and L. H. Thomas, assignors to American Electrical Heater Company Detroit, Mich. Electrically-heated instrument. No. 1,356,071; Oct. 19; v. 279; p. 412.
Kuhn, Frank, L. H. Thomas, and J. G. Spiess, assignors to American Electrical Heater Company, Detroit, Mich. Electrically-heated tool. No. 1,353,965; Sept. 28; v. 278; p. 581.
Kuhn, George W., assignor to American Telephone and Telegraph Company, Brooklyn, N. Y. Telephone trunk-circuits. No. 1,358,758; Nov. 16; v. 280; p. 410.
Kuhn, Gustave A., Cambridge, Mass. Spring door-catch. No. 1,330,945; Feb. 17; v. 271; p. 400.
Kuhn, William O., Seattle, Wash. Driving mechanism for motor-vehicles. No. 1,341,217; May 25; v. 274; p. 688.
Kuhne, Paul, Birmingham, Ala. Concrete floor construction. No. 1,329,978; Feb. 3; v. 271; p. 118.
Kuhne, Paul, Birmingham, Ala. Bar supporter and divider for concrete slabs. No. 1,333,120; Mar. 9; v. 272; p. 231.
Kuhnen, Alexander F., Dixon, assignor to American Wagon Company, Chicago, Ill. Shoveling-board for wagon-bodies and the like. No. 1,348,651; Aug. 3; v. 277; p. 101.
Kuhnen, Alexander F., Dixon, Ill., assignor to American Wagon Company, Chicago, Ill. Wagon-body. No. 1,353,351; Sept. 21; v. 278; p. 415.
Kuhnert, Walter A. (See Wrinkle, N., and Kuhnert.)
Kuhsiek, Albert J. H., Richmond, Hill, N. Y. Forming piston-rings No. 1,328,436; Jan. 20; v. 270; p. 390.
Kuhsiek, Albert J. H., New York, N. Y., assignor to Edward V. Hartford, Inc. Bumper-attaching bracket. No. 1,329,667; Feb. 3; v. 271; p. 60.
Kuhsiek, Albert J. H., assignor to Edward V. Hartford Co., Inc., New York, N. Y. Forming-machine. No. 1,359,255; Nov. 16; v. 280; p. 505.
Kukell, John, Pleasant City, Ohio. Railway-switch. No. 1,333,622; Mar. 16; v. 272; p. 886.
Kukell, John, Pleasant City, Ohio. Manual aeroplane. No. 1,357,240; Nov. 2; v. 280; p. 8.
Kuker, Arthur, Sumner, Iowa. Weeder or rake attachment. No. 1,333,854; Mar. 16; v. 272; p. 430.
Kulas, Andrew. (See Mohme, Charlie, assignor.)
Kulhaka, Franciszek, West Albany, N. Y. Flytrap. No. 1,359,998; Nov. 23; v. 280; p. 698.
Kulick, Andrew L., Detroit, Mich. Spark-plug. No. 1,332,904; Mar. 9; v. 272; p. 190.
Kulow, William J., Pine Bluff, Ark. Concrete-chimney form. No. 1,327,481; Jan. 6; v. 270; p. 112.
Kulp, Harry W., Lancaster, Pa. Valve-spring lifter. No. 1,330,542; Feb. 10; v. 271; p. 255.
Kulp, Harry W., and M. C. Dellinger, Lancaster, Pa. Valve-spring lifter. No. 1,359,814; Nov. 23; v. 280; p. 661.
Kulus, Matthew M., Auckland, New Zealand. Means for use in photographic reproduction. No. 1,363,517; Dec. 28; v. 281; p. 638.
Kulus, Matthew M., Auckland, New Zealand. Photographic reproduction apparatus. No. 1,363,518; Dec. 28; v. 281; p. 638.
Kummer, Kurt F. (See Sedgwick, H. A., and Kummer.)
Kummeth, Frank J., Heron Lake, Minn. Pedal-chord-player attachment for pianos. No. 1,332,668; Mar. 2; v. 272; p. 94.
Kumpf, August D. (See Oechsle and Kumpf.)
Kumpf, August D., Philadelphia, Pa. Actuating mechanism for windows, sashes, shutters, or the like. No. 1,337,776; Apr. 20; v. 273; p. 527.
Kuncus, Joseph, Chicago, Ill. Draft-detaching device. No. 1,342,119; June 1; v. 275; p. 99.
Kundtz Theodor Company, The. (See Dianiska, John, assignor.)
Kundtz, Theodor, Company, The. (See Kundtz, Theodor, assignor.)
Kundtz, Theodor, Lakewood, assignor to The Theodor Kundtz Company, Cleveland, Ohio. Cable-guide for drophead-sewing-machine cabinets. No. 1,338,834; May 4; v. 274; p. 34.
Kunicke, George O. P., Plainfield, N. J. Machine for operating on wood strips. No. 1,355,749; Oct. 12; v. 279; p. 308.
Kunisin, Leoned M., Chicago, Ill. Pneumatic signal. No. 1,331,158; Feb. 17; v. 271; p. 439.
Kunkel, Edward F. (See Schranck, E. V., and Kunkel.)
Kunkel, Frederick H. See Cassel E., and Kunkel.)
Kuns, John H., Long Beach, Calif. Brake for phonographs. No. 1,342,023; June 1; v. 275; p. 80.
Kuntz, Jake J., Oakville, Iowa. Jack. No. 1,342,389; June 1; v. 275; p. 151.
Kuntz, Joseph W., Oakville, Iowa. Adjustable concave. No. 1,334,910; Mar. 23; v. 272; p. 676.
Kuntz, Samuel L., Fort Wayne, Ind. Fish-reel. No. 1,334,763; Mar. 23; v. 272; p. 647.
Kuntz, Samuel L., Fort Wayne, Ind. Anchor-rope fastener. No. 1,347,339; July 20; v. 276; p. 518.
Kuntzler, Louis, Covington, Ky. Safety way and stop signal for automobiles and other vehicles. No. 1,356,295; Oct. 19; v. 279; p. 457.
Kunz, Edward L., assignor, by mesne assignments, to One Hand Auto Top Co., Inc., Buffalo, N. Y. Automatically-operable top frame. No. 1,334,381; Mar. 23; v. 272; p. 575.
Kunz, Edward L., assignor to One Hand Auto Top Company, Inc., Buffalo, N. Y. Automatically-operable top-frame. No. 1,334,382; Mar. 23; v. 272; p. 575.
Kunz, Edward L., assignor to One Hand Auto Top Company, Inc., Buffalo, N. Y. Balanced top-frame. No. 1,334,383; Mar. 23; v. 272; p. 575.
Kunzler, Charles J. (See Robb, Clyde S., assignor.)

Digitized by Google

Alphabetical list of patentees—Continued.

Kuo, Cheng C., Ithaca, N. Y. Photographic apparatus. No. 1,360,414; Nov. 30; v. 280; p. 847.
Kuper, Israel, *et al.* (See Blankfield, George, assignor.)
Kupetz, Adolph G., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,356,072; Oct. 19; v. 279; p. 412.
Kupfer, Samuel, New York, N. Y. Hand-guard for printing-presses. No. 1,338,780; May 4; v. 274; p. 25.
Kurek, Edmund. (See Pospisil, R. E., and Kurek.)
Kurman, Nathan A., assignor to International Calliophone Corporation, New York, N. Y. Telephonic-receiver. No. 1,356,156; Oct. 19; v. 279; p. 429.
Kurnalian, George M., Troy, N. Y. Folding-machine. No. 1,333,085; Mar. 9; v. 272; p. 225.
Kuroki, Shingo, Tokyo, Japan. Waterproof paint. No. 1,333,321; Mar. 9; v. 272; p. 269.
Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,330,878; Feb. 17; v. 271; p. 387.
Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,332,263; Mar. 2; v. 272; p. 16.
Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,340,488; May 18; v. 274; p. 478.
Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,340,900; May 25; v. 274; p. 627.
Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,345,093; June 29; v. 275; p. 927.
Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,349,890; Aug. 17; v. 277; p. 468.
Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,351,428; Aug. 31; v. 277; p. 877.
Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,356,157; Oct. 19; v. 279; p. 429.
Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,356,158; Oct. 19; v. 279; p. 429.
Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,356,926; Oct. 26; v. 279; p. 626.
Kurt, Otto A., and S. C. Bartholdi, Los Angeles, Calif. Handle-opening dished-lid container. No. 1,361,592; Dec. 7; v. 281; p. 124.
Kurtz, Benjamin F., Avalon, Pa. Nut-lock. No. 1,327,435; Jan. 6; v. 270; p. 103.
Kurtz, Stewart S., Sr. (See Leahy, William P., assignor.)
Kuryla, Michael H., Park City, Utah, assignor to The Merrill Company, San Francisco, Calif. Filtering apparatus. No. 1,345,861; July 6; v. 276; p. 104.
Kuryla, Michael H., Park City, Utah, assignor to The Merrill Company, San Francisco, Calif. Removable closure. No. 1,345,862; July 6; v. 276; p. 105.
Kurz, Jan, Prague, Czechoslovak Republic. Aeroplane load-transfer device. No. 1,356,090; Oct. 26; v. 279; p. 639.
Kusebauch, Anton K. (See Crawford, D. F., and Kusebauch.)
Kusebauch, Anton K., assignor to Locomotive Stoker Company, Pittsburgh, Pa. Locomotive draft appliance. No. 1,356,824; Oct. 26; v. 279; p. 606.
Kushlan, Anton, Brownsville, Pa. Railway-tie and rail-joint. No. 1,360,302; Nov. 30; v. 280; p. 826.
Kushner, George, Avella, Pa. Washboiler. No. 1,363,605; Dec. 28; v. 281; p. 655.
Kuster, Frederick, New York, N. Y. Antiglare appliance. No. 1,360,303; Nov. 30; v. 280; p. 827.
Kusterer, Carl C., Grand Rapids, Mich. Convertible vehicle. No. 1,358,001; Nov. 9; v. 280; p. 214.
Kusterle, Frank. (See Travis, D. C., and Kusterle.)
Kusterle, Frank, assignor to Simmons Company, Kenosha, Wis. Bed-spring corner. No. 1,359,714; Nov. 23; v. 280; p. 641.
Kusuda, Takejiro, Osaka, Japan. Belt. No. 1,329,190; Jan. 27; v. 270; p. 561.
Kusutani, Gikichi, Seattle, Wash. Tree-sawing machine. No. 1,349,772; Aug. 17; v. 277; p. 445.
Kutchka, Karl G., Youngstown, Ohio. Rotary engine or pump. No. 1,336,845; Apr. 13; v. 273; p. 277.
Kutchuk, Zachary, Pittsburgh, Pa. Tire. No. 1,351,576; Aug. 31; v. 277; p. 906.
Kutil, Louis J. (See Ross, John, assignor.)
Kutsche, Oswald, Pittsburgh, Pa. Comminuting-machine. No. 1,332,220; Mar. 2; v. 272; p. 8.
Kutsche, Oswald, Pittsburgh, Pa. Comminuting apparatus. No. 1,332,850; Mar. 2; v. 272; p. 129.
Kutscher, Theodore C., Seattle, Wash. Skirt-supporting device. No. 1,355,675; Oct. 12; v. 279; p. 293.
Kutwicz, Frank, Regina, Saskatchewan, Canada. Collapsible cane. No. 1,336,638; Apr. 13; v. 273; p. 236.
Kux, Albert S., Chicago, Ill. Compound shock-absorbing spring. No. 1,351,044; Aug. 31; v. 277; p. 801.
Kuypers, Gerard, Rotterdam, assignor of one-half to F. K. T. van Iterson, Heerlen, Netherlands. Cooling-tower of reinforced concrete. No. 1,343,832; June 15; v. 275; p. 553.
Kuyser, Jan A., Sale, England, assignor to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,329,247; Jan. 27; v. 270; p. 571.
Kuznetzoff, Timothy A., Brooklyn, N. Y. Swimming device. No. 1,349,891; Aug. 17; v. 277; p. 468.
Kuznik, August, assignor of three-fourths to A. Lillie, Cleveland, Ohio. Making molds. No. 1,347,168; July 20; v. 276; p. 483.
Kvarda, Jarry. (See Klepac, J., and Kvarda.)
Kvindlog, Henry, and C. O. Wotring, Duluth, Minn. Valve-lifter. No. 1,332,128; Feb. 28; v. 271; p. 641.
Kwasis, Wincent, Newark, N. J. Label-affixing apparatus. No. 1,351,107; Aug. 31; v. 277; p. 812.
Kyle, James A., Salt Lake City, Utah. Electric lock. No. 1,343,731; June 15; v. 275; p. 532.
Kylin, Oskar, assignor to Foster Machine Company, Elkhart, Ind. Automatic lathe. No. 1,355,480; Oct. 12; v. 279; p. 256.
Kynoch Limited. (See Stephens, Richard H., assignor.)
Kyrides, Lucas P., assignor to General Chemical Company, New York, N. Y. Producing halogenated homologues of benzene. No. 1,345,373; July 6; v. 276; p. 9.
Kysor, Walter A., assignor to Acme Motor Truck Co., Cadillac, Mich. Motor-truck construction. No. 1,342,266; June 1; v. 275; p. 128.
Kytilca, John F., Chicago, Ill. Packing-ring. No. 1,334,764; Mar. 23; v. 272; p. 647.
L. & H. Clutch Co., The. (See Lake, David, assignor.) (Reissue.)
L-W-F Engineering Company. (See Mitchell, Glenn D., assignor.)
Laabs, Max A., assignor to American Optical Company, Southbridge, Mass. Testing process. No. 1,339,031; May 4; v. 274; p. 71.
Laban, Arthur, Mackay, Queensland, Australia. Cinematograph-film spool. No. 1,330,325; Feb. 10; v. 271; p. 214.
La Bar, Bert G., Turtle Creek, Pa., assignor to Westinghouse Electric and Manufacturing Company. Gearing for electrical measuring instruments. No. 1,327,832; Jan. 13; v. 270; p. 239.
Labarthe, Jules, San Francisco, Calif. Smelting-furnace for lead ores and the like. No. 1,356,159; Oct. 19; v. 279; p. 429.
La Batt, William D., Chicago, Ill. Package-fastener. No. 1,347,861; July 27; v. 276; p. 679.
La Beef, Charles H., Oneida, N. Y. Bottle-capping machine. No. 1,333,086; Mar. 9; v. 272; p. 225.
Labitotière, Edouard, Bezons, France. Crank for light high-speed engines. No. 1,342,683; June 8; v. 275; p. 261.
Labitotière, Edouard, Bezons, France. Machine for applying driving-bands on high-explosive shells. No. 1,346,455; July 13; v. 276; p. 284.
Labofish, Charles S., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,342,174; June 1; v. 275; p. 110.
La Bombard, Leon E., assignor to Specialty Automatic Machine Company, Chelsea, Mass. Machine for making boxes. No. 1,346,899; July 20; v. 276; p. 431.
La Bombard, Leon E., assignor to Specialty Automatic Machine Company, Chelsea, Mass. Machine for making double wall-boxes. No. 1,352,283; Sept. 7; v. 278; p. 109.
La Bombard, Leon E., assignor to Specialty Automatic Machine Company, Chelsea, Mass. Blank-feeder. No. 1,352,284; Sept. 7; v. 278; p. 109.
La Bour, Harry E., Chicago Heights, Ill. Centrifugal pump. No. 1,355,982; Oct. 19; v. 279; p. 394.
Labrosse, Paul, and F. Estève, Lyon, France. Circuit-breaker for magnetos. No. 1,327,284; Jan. 6; v. 270; p. 75.
La Casse, Henry, assignor of one-half to J. A. Buttress, Los Angeles, Calif. Mixing-machine. No. 1,356,296; Oct. 19; v. 279; p. 457.
Lacaze, Eduardo, Buenos Aires, Argentina. Wall resisting thrust of earth and water. No. 1,360,767; Nov. 30; v. 280; p. 917.
Lacerda, Harry A., Jersey City, N. J., assignor of one-half to R. W. Benson, Mount Vernon, N. Y. Superheater for internal-combustion engines. No. 1,338,511; Apr. 27; v. 278; p. 736.
Lacerda, Harry A., Schenectady, assignor of one-half to R. W. Benson, New York, N. Y. Lubricating-packing. No. 1,347,388; July 20; v. 276; p. 527.
Lacey, Clifford. (See Quin, A. F., and Lacey.)
Lacey, Fred, Lowell, Mass. Friction let-off for looms. No. 1,335,510; Mar. 30; v. 272; p. 847.
Lacey, Fred, Lowell, assignor to Draper Corporation, Hopedale, Mass. Filling-thread controller. No. 1,350,613; Aug. 24; v. 277; p. 655.
Lacey, Fred, Lowell, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,362,108; Dec. 14; v. 281; p. 272.
Lacey, Fred, Lowell, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,362,109; Dec. 14; v. 281; p. 273.
Lacey, Fred, Lowell, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,362,110; Dec. 14; v. 281; p. 273.

Digitized by Google

Lacey, Fred, Lowell, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,362,111; Dec. 14; v. 281; p. 273.
Lacey, Fred, Lowell, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,362,112; Dec. 14; v. 281; p. 273.
Lacey, Fred, Lowell, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,362,113; Dec. 14; v. 281; p. 274.
Lacey, Fred, Lowell, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,362,115; Dec. 14; v. 281; p. 274.
Lacey, Fred, Lowell, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,362,116; Dec. 14; v. 281; p. 274.
Lacey, Fred, Lowell, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,362,117; Dec. 14; v. 281; p. 274.
Lacey, Fred, Lowell, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,362,118; Dec. 14; v. 281; p. 275.
Lacey, Ira C., Oakland, Calif. Fuel-oil burner. No. 1,363,131; Dec. 21; v. 281; p. 523.
Lacey, Milton A., Bath, Ill. Hay and grain stacking frame. No. 1,333,497; Mar. 9; v. 272; p. 802.
La Chapelle, Andrew S., Detroit, Mich. Automobile-jack. No. 1,339,459; May 11; v. 274; p. 226.
La Chapelle, Euclid I., Brockton, Mass. Shoe-turning machine. No. 1,336,750; Apr. 13; v. 273; p. 258.
La Chapelle, Fred N., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making seams for shoe-soles. No. 1,330,879; Feb. 17; v. 271; p. 387.
La Chapelle, Fred N., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Insole and making same. No. 1,341,059; May 25; v. 274; p. 658.
La Chance, Leander H., and G. Browning, Chicago, Ill. Razor. No. 1,361,266; Dec. 7; v. 281; p. 56.
Lachman, Laurence S., New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel. No. 1,340,961; May 25; v. 274; p. 638.
Lachman, Laurence S., New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Metal-spoke wheel and making same. No. 1,355,234; Oct. 12; v. 279; p. 208.
Lachman, Maurice, assignor to Universal Electric Welding Company, New York, N. Y. Fencepost. No. 1,328,926; Jan. 27; v. 270; p. 512.
Lachman, Maurice, assignor to Universal Electric Welding Company, New York, N. Y. Pole or post. No. 1,328,927; Jan. 27; v. 270; p. 512.
Lachman, Maurice, assignor to Universal Electric Welding Company, New York, N. Y. Metal pole. No. 1,332,669; Mar. 2; v. 272; p. 94.
Lachman, Maurice, assignor to Universal Electric Welding Company, New York, N. Y. Plugging holes in metal plates. No. 1,332,670; Mar. 2; v. 272; p. 95.
Lachman, Maurice, assignor to Universal Electric Welding Company, New York, N. Y. Metallic structure. No. 1,342,818; June 8; v. 275; p. 290.
Lachman, Maurice, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Wheel. No. 1,338,936; May 4; v. 274; p. 53.
Lachman, Maurice, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel. No. 1,346,829; July 20; v. 276; p. 417.
Lachman, Maurice, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Sheet-metal wheel. No. 1,354,310; Sept. 28; v. 278; p. 651.
Lachman, Maurice, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Disk wheel. No. 1,355,233; Oct. 12; v. 279; p. 208.
Lachman, Maurice, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel. No. 1,363,519; Dec. 28; v. 281; p. 639.
Lachman, Philipp, and G. Thomas, Rahway, N. J. Vibratory disk. No. 1,336,036; Apr. 6; v. 273; p. 63.
Lachmann, Edgare S., Chicago, Ill. Metal fencepost. No. 1,349,575; Aug. 17; v. 277; p. 407.
Lachmann, Edgare S., Chicago, Ill. Metal fencepost. No. 1,357,572; Nov. 2; v. 280; p. 70.
Lachmann, Walter, Dresden, Germany. Continual process of frictionally distilling gaseous mixtures. No. 1,363,659; Dec. 28; v. 281; p. 665.
Lackawanna Steel Company. (See Boardman, Charles S., assignor.)
Lackawanna Steel Company. (See Conkling, Cloud C., assignor.)
Lackawanna Steel Company. (See Conkling and Boardman, assignors.)
Lackawanna Steel Company. (See Mathias, Thomas H., assignor.)
Lackland, James R., Creston, Iowa. Automatic angle-indicator. No. 1,346,547; July 13; v. 276; p. 303.
Lackner, John, New York, N. Y. Buffer for explosive shells. No. 1,331,510; Feb. 24; v. 271; p. 525.
Lackner, John, Long Island City, N. Y. Holder for paper dishes. No. 1,344,802; June 29; v. 275; p. 873.
Lacko, John, Portage, Pa. Carbid-lamp tool. No. 1,360,232; Nov. 23; v. 280; p. 744.
Lacoin, Louis. (See Beurrier, A., Bigourdan, and Lacoin.)
Lacoste, Emile, New Orleans, La. Violin attachment. No. 1,353,763; Sept. 21; v. 278; p. 497.
La Count, Eldridge I. (See Prince, B. A., and La Count.)
La Count, Eldridge I., assignor to Orcutt Automatic Train Control Company, Worcester, Mass. Apparatus for electrically controlling air-brakes. No. 1,336,465; Apr. 13; v. 273; p. 203.
La Cour, Carl, Dixon, Ill. Resilient tire. No. 1,349,163; Aug. 10; v. 277; p. 253.
La Cour, Jens L., assignor to Norsk Hydroelektrisk, Kvaelstofaktieselskab, Christiania, Norway. Absorption of nitrous gases. No. 1,348,227; Aug. 3; v. 277; p. 19.
Lacroix, Joseph D., and A. H. Petersen, Akron, Ohio, assignors to Kelly-Springfield Tire Co., New York, N. Y. Mixing-machine. No. 1,344,541; June 22; v. 275; p. 756.
La Crosse Plow Co. (See Davis, F. E., and Cameron, assignors.)
La Crosse Plow Company. (See Davis, F. E., and Biebinger, assignors.)
La Crosse Tractor Co. (See Melcher, Lee W., assignor.)
Lacy, Benjamin B., Houston, Tex., assignor to Henry E. Elrod Company. Power-generating unit for locomotive-headlights. No. 1,357,501; Nov. 2; v. 280; p. 56.
Lacy, Charles E., Richmond, Va. Automobile-pedal lock. No. 1,343,459; June 15; v. 275; p. 478.
Lacy Manufacturing Company. (See Pearne, Tomkewitz, and Hansen, assignors.)
Ladd, F. C., and F. G. Neal, Springfield, assignors, by mesne assignments, to Eastern Manufacturing Company, Boston, Mass. Paper-finishing machine. No. 1,352,611; Sept. 14; v. 278; p. 209.
Ladd, George T., Company. (See Remmen, Jorgen, assignor.)
Ladd, James B., Ardmore, Pa., assignor to United States Cast Iron Pipe and Foundry Company, Burlington, N. J. Centrifugal casting-machine. No. 1,344,409; June 22; v. 275; p. 730.
Ladd, James B., Ardmore, Pa., assignor to United States Cast Iron Pipe and Foundry Company, Burlington, N. J. Centrifugal casting-machine. No. 1,347,582; July 27; v. 276; p. 623.
Ladd, James B., Ardmore, Pa., assignor to United States Cast Iron Pipe and Foundry Company, Burlington, N. J. Centrifugal pipe-casting. No. 1,351,766; Sept. 7; v. 278; p. 10.
Ladd, James B. Ardmore, Pa., assignor to United States Cast Iron Pipe and Foundry Company, Burlington, N. J. Method of and apparatus for charging rotating pipe-molds. No. 1,351,767; Sept. 7; v. 278; p. 10.
Ladd, John W. (See Cassidy, James P., assignor.)
Ladd, John W. B., and R. E. Rich, Chicago, Ill. Crank-shaft transmission-pulley. No. 1,341,914; June 1; v. 275; p. 59.
Ladd, John W. B., and R. E. Rich, Chicago, Ill. Combined water and air pump for automobiles. No. 1,341,915; June 1; v. 275; p. 59.
Ladd, Walter M., Omaha, Nebr. Steam-pressure cooker and canner attachment. No. 1,362,878; Dec. 21; v. 281; p. 474.
Laddon, Isaac M., Detroit, Mich., and D. H. Reeves, Dayton, Ohio. Dual control for airplanes. No. 1,329,415; Feb. 3; v. 271; p. 13.
La Fay, Arthur J., Toronto, Ontario, Canada. Heating apparatus. No. 1,349,617; Aug. 17; v. 277; p. 415.
La Fayette Motors Company. (See Applin, John W., assignor.)
La Fayette Motors Company. (See White, D'Orsay M., assignor.)
Laffargue, John G., Noank, Conn. Game. No. 1,335,511; Mar. 30; v. 272; p. 847.
Lafferty, Harry C., New York, N. Y. Clothesline-hook. No. 1,344,589; June 22; v. 275; p. 766.
Lafferty, Herbert D. (See Chilton, Henry J., assignor.)
Lafferty, Herbert D. (See Shearer, Joe E., assignor.)
Laffoon, James F., Kansas City, Mo. Proportional distributer. No. 1,348,885; Aug. 10; v. 277; p. 198.
Lafitte, Cecile, New York, N. Y. Lamp. No. 1,333,428; Mar. 9; v. 272; p. 288.
Lafleche, Hermenegilde J. H., Casselman, Ontario, Canada. Potato-planter. No. 1,354,202; Sept. 28; v. 278; p. 629.
La Fleur, Charles E., Philadelphia, Pa. Egg-case filler. No. 1,337,978; Apr. 20; v. 273; p. 566.
La Fleur, Essaie, Chicago, Ill. Propeller. No. 1,363,660; Dec. 28; v. 281; p. 665.
La Fontaine, George A., assignor of one-half to O. Steinen, Los Angeles, Calif. Clipper-shears. No. 1,343,174; June 8; v. 275; p. 359.
Lafontaine, George A., San Pedro, Calif., assignor of one-half to O. Steinen, Los Angeles, Calif. Hair-clipper. No. 1,343,175; June 8; v. 275; p. 359.
La France, David J., and W. P. De Witt, Somerville, assignors to De Witt La France Co., Cambridge, Mass. Fountain-pen. No. 1,340,277; May 18; v. 274; p. 438.

Digitized by Google

La France, David J., Cambridge, and W. P. De Witt, Somerville, Mass., assignors, by mesne assignments, to De Witt-La France Co. Clip for fountain-pen caps or the like. No. 1,350,412; Aug. 24; v. 277; p. 615.

Lafrance, Joseph, assignor of one-half to A. Chagnon, Montreal, Quebec, Canada. Air-pump. No. 1,327,838; Jan. 13; v. 270; p. 289.

Lafrance, Joseph, assignor of one-half to Onesime Lafrance, Montreal, Quebec, Canada. Jack. No. 1,362,630; Dec. 21; v. 281; p. 425.

Lafrance, Onesime. (See Lafrance, Joseph, assignor.)

La France, Richard. (See Graham, J. B., and La France.)

La France, Richard, assignor to The Owens Bottle Machine Company, Toledo, Ohio. Apparatus for transferring glass to molds. No. 1,331,511; Feb. 24; v. 271; p. 525.

La France, Richard, assignor to The Owens Bottle Machine Company, Toledo, Ohio. Glass-forming machine. No. 1,348,365; Aug. 3; v. 277; p. 46.

La France, Richard, assignor to The Owens Bottling Machine Company, Toledo, Ohio. Bottle-handling mechanism. No. 1,355,232; Oct. 12; v. 279; p. 208.

La Ganke, Hugo C., assignor to The Osborn Crew Manufacturing Company, Cleveland, Ohio. Pulley. No. 1,349,618; Aug. 17; v. 277; p. 416.

Lagersten, Frans A., assignor to Svenska Aktiebolaget Nobel-Diesel, Nynäshamn, Sweden. Water-cooled working-cylinder for internal-combustion engines. No. 1,342,633; June 8; v. 275; p. 251.

La Grange, William J., Rensselaer, N. Y. Automobile turntable-jack. No. 1,336,037; Apr. 6; v. 273; p. 63.

La Grant, John H. (See Bailey, F. L. and La Grant.)

Lagreid, John H., and O. Becklin, Seattle, Wash. Wrench. No. 1,334,156; Mar. 16; v. 272; p. 487.

Lague, George E., North Attleboro, Mass. Telephone attachment. No. 1,358,642; Nov. 9; v. 280; p. 342.

Lahann, Herman. (See Unger, J. W., and Lahann.)

La Hodny, William, Buffalo, N. Y. Adjustable bracket for mirrors and other objects. No. 1,328,677; Jan. 20; v. 270; p. 435.

La Hodny, William, Buffalo, N. Y. Polishing-machine. No. 1,345,374; July 6; v. 276; p. 9.

Lain, Lee. (See Tolston, Elbert M., assignor.)

Laing, David F., McDonald Hills, Saskatchewan, Canada. Swingletree-clip. No. 1,353,049; Sept. 14; v. 278; p. 296.

L'Air Liquide (Societe Anonyme Pour Georges et L'Exploitation Des Procedes Georges Claude.) (See Claude, Georges, assignor.)

Laird, John H., assignor to Laird Manufacturing Company, Louisville, Ky. Automobile-headlight. No. 1,336,967; Apr. 13; v. 273; p. 300.

Laird, John W., Pasadena, Calif. Dust-cap for pneumatic-tire valves. No. 1,349,463; Aug. 10; v. 277; p. 312.

Laird Manufacturing Company. (See Laird, John H., assignor.)

Laird, Robert F., assignor of one-half to R. F. Hyatt, Anderson, Ind. Power steering-gear. No. 1,355,152; Oct. 12; v. 279; p. 192.

Laird, Wesley E. (See Wagner, R. E., and Laird.)

Laird, Wesley E., Pittsfield, Mass., assignor to General Electric Company. Double die for making L-punchings. No. 1,334,102; Mar. 16; v. 272; p. 477.

Laird, Wilbur G., assignor to H. L. Doherty, New York, N. Y. Refractory lining. No. 1,328,380; Jan. 20; v. 270; p. 379.

Laird, Wilbur G., assignor to H. L. Doherty, New York, N. Y. Gas-calorimeter. No. 1,354,568; Oct. 5; v. 279; p. 24.

Laise, Clemens A. (See Liebmann, A. L., and Laise.)

Laist, Frederick, Anaconda, Mont. Method of and apparatus for precipitating copper from hot solutions. No. 1,338,985; Mar. 16; v. 272; p. 455.

Laist, Frederick, and F. F. Frick, Anaconda, Mont. Producing sulfur dioxid. No. 1,344,905; June 29; v. 275; p. 892.

Laist, Frederick, Anaconda, and J. O. Elton, Great Falls, assignors to Anaconda Copper Mining Company, Anaconda, Mont. Extracting zinc from ores. No. 1,362,166; Dec. 14; v. 281; p. 283.

La Jeunesse, Jean B. A., Alameda, Calif. Weather-strip. No. 1,342,050; June 1; v. 275; p. 86.

La Joie, Herbert J., Orange, N. J., assignor to Autopiano Company. Electrically-driven pneumatic musical instrument. No. 1,329,613; Feb. 3; v. 271; p. 50.

La Joie, Herbert J., Orange, N. J., assignor to Autopiano Company. Expression device for automatic musical instruments. No. 1,354,045; Sept. 28; v. 278; p. 597.

Lake, Clair D., Endicott, assignor to The Tabulating Machine Company, New York, N. Y. Connector-plug. No. 1,342,819; June 8; v. 275; p. 290.

Lake, David, Cleveland, Ohio, assignor to The L. & H. Clutch Co., Norristown, Pa. Clutch. (Reissue.) No. 14,933; Aug. 17; v. 277; p. 547.

Lake, Frank, Miami, Ariz. Hay rake and racker. No. 1,342,293; June 1; v. 275; p. 133.

Lake, James, Jr., Brooklyn, N. Y. Bracket-box for indicating instruments. No. 1,330,196; Feb. 10; v. 271; p. 191.

Lake, John L., and F. D. McMahon, Cleveland, Ohio. Tractor. No. 1,338,835; May 4; v. 274; p. 34.

Lake, Simon, Milford, Conn. Extensible tool-carrying arm. No. 1,335,512; Mar. 30; v. 272; p. 848.

Lake, Simon, Milford, Conn. Method of and apparatus for welding. No. 1,335,584; Mar. 30; v. 272; p. 861.

Lake, Simon, Milford, Conn. Apparatus for rivet-setting and similar operations. No. 1,337,457; Apr. 20; v. 273; p. 466.

Lake, Simon, Milford, Conn. Submarine working and exploration vessel. No. 1,356,773; Oct. 26; v. 279; p. 596.

Lake Torpedo Boat Company of Maine, The. (See Barraja-Frauenfelder, Joseph, assignor.)

Lake Torpedo Boat Company of Maine, The. (See Brill, Philip B., assignor.)

Lakewood Engineering Company, The. (See Carr, Edward G., assignor.)

Lakey, Edgar C., assignor to B. A. Ballou & Co., Inc., Providence, R. I. Button. No. 1,346,660; July 13; v. 276; p. 325.

Lakin, J Harry, Pittsburgh, Pa. Spray element. No. 1,362,493; Dec. 14; v. 281; p. 347.

Lakin, John W., Detroit, Mich. Ball-and-socket joint. No. 1,349,002; Aug. 10; v. 277; p. 220.

Laley, Harvey M., Monessen, Pa. Tire-armor. No. 1,351,664; Aug. 31; v. 277; p. 923.

Lalin, Georg S., Råsunda, Sweden. Focusing-finder. No. 1,331,269; Feb. 17; v. 271; p. 459.

Lallié, Norbert, Nantes, France. Typewriter. No. 1,329,087; Jan. 27; v. 270; p. 541.

Lally Commercial Body Company, The. (See Lally, George W., assignor.)

Lally Commercial Body Company. (See Rose, Robert W., assignor.)

Lally, George W., assignor to The Lally Commercial Body Company, Everett, Mass. Dumping-wagon hoist. No. 1,355,763; Oct. 12; v. 279; p. 311.

Lally, John, Boston, Mass. Building construction. No. 1,329,614; Feb. 3; v. 271; p. 50.

Lally, John J., Syracuse, N. Y. Scrub-brush. No. 1,329,416; Feb. 3; v. 271; p. 13.

Lalonde, Louise. (See Lalonde, Moses, assignor.)

Lalonde, Moses, assignor of one-half to L. Lalonde, Springfield, Mass. Toy. No. 1,337,661; Apr. 20; v. 273; p. 505.

La Master, Vernon E., Beardstown, assignor of one-half to T. J. Smedley, Frederick, Ill. Automobile-radiator. No. 1,346,216; July 13; v. 276; p. 236.

La May, Arthur C. (See Todd and La May.)

La May, Arthur C., deceased, Rochester, N. Y.; B. La May, administratrix. Drafting-machine. No. 1,336,241; Apr. 6; v. 273; p. 102.

La May, Arthur C., assignor to Todd Protectograph Company, Rochester, N. Y. Checkwriting-machine. No. 1,331,934; Feb. 24; v. 271; p. 606.

La May, Bridget, administratrix. (See La May, Arthur C.)

Lamb, A. B., Washington, D. C., E. W. Miller, Akron, Ohio, and P. W. Carleton, Penns Grove, N. J. Respirator. No. 1,352,818; Sept. 14; v. 278; p. 352.

Lamb, Henry W., Brookline, Mass. Method of and apparatus for treating metal sheets. No. 1,337,458; Apr. 20; v. 273; p. 467.

Lamb, Homer M., West Frankfort, Ill. Adjustable guide-clamp. No. 1,337,921; Apr. 20; v. 273; p. 555.

Lamb, James J. (See Wright, W. M., Teeples, and Lamb.)

Lamb, John H., Los Angeles, Calif. Detachable side curtain for auto-tops. No. 1,330,762; Feb. 10; v. 271; p. 296.

Lamb, Joseph F., assignor to Landers, Frary & Clark, New Britain, Conn. Handle. No. 1,333,760; Mar. 16; v. 272; p. 412.

Lamb, Joseph F., assignor to Landers, Frary & Clark, New Britain, Conn. Knife. No. 1,355,676; Oct. 12; v. 279; p. 294.

Lamb, Joseph M., Fazakerley, near Liverpool, England. Tool-holder or tool. No. 1,336,466; Apr. 13; v. 273; p. 203.

Lamb, Morris C., London, England. Detanning chrome-leather. No. 1,340,721; May 18; v. 274; p. 522.

Lamb & Nash Company. (See Johnson, Carl B., assignor.)

Lamb, Nathan H., Fallon, Mont. Paper-hanging device. No. 1,344,906; June 29; v. 275; p. 892.

Lamb, Thomas G. (See Johnson, C. W., and Lamb.)

Lambert, Alphonse, Rome, Italy. Composition for hardening and preserving impregnable soft woods. No. 1,346,830; July 20; v. 276; p. 417.

Lambert, Alvan R., Anderson, Ind. Air-cleaner for internal-combustion engines. No. 1,340,058; May 11; v. 274; p. 339.

Lambert, Andrew. (See Peters, E., and Lambert.)

Lambert, Earl M., assignor to Boeing Airplane Company, Seattle, Wash. Wrapping-machine. No. 1,363,422; Dec. 28; v. 281; p. 619.

Lambert, Emma N., assignor of one-half to P. C. Allana, Bethlehem, Pa. Game-board. No. 1,353,764; Sept. 21; v. 278; p. 497.

Lambert, Eric. (See Hope, J. F., and Lambert.)

Lambert, Frank, Brooklyn, N. Y. Fluid-meter. No. 1,331,159; Feb. 17; v. 271; p. 440.

Lambert, Frank B., Chicago, Ill. Brick machinery. No. 1,353,917; Sept. 28; v. 278; p. 571.

Digitized by Google

Lambert, George A., Anderson, Ind. Supporting means for loose-leaf journals and ledgers combined. No. 1,329,910; Feb. 3; v. 271; p. 106.
Lambert, George W., Spangler, Pa. Antiskid attachment for vehicle-tires. No. 1,335,691; Mar. 30; v. 272; p. 882.
Lambert, Henry M., Portland, Oreg. Manufacturing tires. No. 1,351,856; Sept. 7; v. 278; p. 29.
Lambert, Henry M., Portland, Oreg. Method of and apparatus for manufacturing belts. No. 1,354,569; Oct. 5; v. 279; p. 24.
Lambert, John H., assignor of one-half to J. W. Eldgedge, Belvidere, Ill. Stove-lid lifter. No. 1,349,211; Aug. 10; v. 277; p. 262.
Lambert, Joseph A., Houston, Tex. Means for detachably securing chairs to floors. No. 1,335,842; Apr. 6; v. 273; p. 26.
Lambert Tire & Rubber Co. (See Neinaber, Louis F., assignor.)
Lambert, Walter, Yakima, Wash. Digger. No. 1,360,120; Nov. 23; v. 280; p. 722.
Lambert, Zéphirin, assignor to J. E. McLaughlin, Grand Mére, Quebec, Canada. Pneumatic drill. No. 1,339,565; May 11; v. 274; p. 246.
Lambertz, Josef, Hennef-on-the-Sieg, Germany. Closing device for the material-receptacles of automatic weighing-machines. No. 1,337,842; Apr. 20; v. 273; p. 540.
Lambeth, Acey L., Mineral Wells, assignor of one-half to C. B. Cooper and one-half to A. L. Houston, Dallas, Tex. Underreamer for reaming out producing-sands. No. 1,353,354; Sept. 21; v. 278; p. 415.
Lambley, Felix A., assignor to A. Ransome & Company, Limited. Newark-upon-Trent, England. Machine for forming the teeth of saws. No. 1,356,073; Oct. 19; v. 279; p. 412.
Lambrakos, Peter, New York, N. Y. Milk-can handle. No. 1,353,050; Sept. 14; v. 278; p. 296.
La Meda Mfg. Company. (See Hull, Meda V., assignor.)
La Mere, Robert S., Dresser Junction, Wis. Railway-signal. No. 1,349,773; Aug. 17; v. 277; p. 446.
Lamiell, Earld H., Canton, Ohio. Rim-tool. No. 1,360,415; Nov. 30; v. 280; p. 848.
Lamkin, Lorenzo O., and J. H. Berghaus, Jr., Louisville, Ky. Collapsible form. No. 1,327,333; Jan. 6; v. 270; p. 84.
Lamme, Benjamin G., and W. Sykes, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Speed control for induction-motors. No. 1,333,664; Mar. 16; v. 272; p. 395.
Lamme, Benjamin G., and W. Sykes, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company. Speed-control system for induction-motors. No. 1,336,566; Apr. 13; v. 273; p. 222.
Lammers, Edwin S., Jr., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Motor-control system. No. 1,341,651; June 1; v. 275; p. 7.
Lammers, Matthew, Sheboygan Falls, Wis. Milker-head. No. 1,328,880; Jan. 27; v. 270; p. 503.
Lammers, Matthew, Sheboygan Falls, Wis. Milking apparatus. No. 1,338,182; Apr. 27; v. 273; p. 674.
Lammers, William H., New York, N. Y. Snap-fastener. No. 1,348,011; July 27; v. 276; p. 708.
Lamming, Raymond E., Springfiel, Ill. Adjustable crutch. No. 1,358,643; Nov. 9; v. 280; p. 342.
Lamneck, W. E., Company, The. (See Holub, Charles J., assignor.)
Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Draft-arm. No. 1,347,640; July 27; v. 276; p. 634.
Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Railway-truck side frame. No. 1,355,344; Oct. 12; v. 279; p. 230.
Lamont, Lewis H., Chicago, Ill. Thermostatic control mechanism for hydrocarbon-engines. No. 1,350,871; Aug. 24; v. 277; p. 704.
La Montagne, Ivan, assignor to Bay State Corset Company, Springfield, Mass. Garment or wearing-apparel, and more particularly to corsets. No. 1,362,013; Dec. 14; v. 281; p. 254.
La Montagne, Patrick P., Burbonnais, assignor to Paramount Knitting Company, Chicago, Ill. Knitting-machine needle. No. 1,339,959; May 11; v. 274; p. 321.
La Montaine, Sidney J., Chicago, Ill. Connecting-plug. No. 1,343,676; June 15; v. 275; p. 521.
Lamoreaux, Frank W., Syracuse, N. Y. Glare-stop. No. 1,338,022; Apr. 27; v. 273; p. 644.
Lampe, Fred E., Newark, N. J. Soldering composition. No. 1,327,620; Jan. 13; v. 270; p. 199.
Lampert, Henry H., Chicago, Ill. Bar support and spacer. No. 1,361,162; Dec. 7; v. 281; p. 36.
Lampert, Henry H., Chicago, Ill. Bar-support. No. 1,362,707; Dec. 21; v. 281; p. 441.
Lamping, George B., and J. A. Du Laney, Seattle, Wash. Sand-distributing apparatus for motor-vehicles. No. 1,354,570; Oct. 5; v. 279; p. 24.
Lampkin, Walter L., Kansas City, Mo. Scrubbing-nozzle. No. 1,334,911; Mar. 23; v. 272; p. 676.
Lamplough, Frederick, Feltham, assignor to Hydro-Dynamics, Limited, London, England. Hydraulic engine. No. 1,341,328; May 25; v. 274; p. 709.
Lamplough, Frederick, Feltham, assignor to Hydro-Dynamics Limited, London, England. Hydraulic pump. No. 1,346,548; July 13; v. 276; p. 303.
Lamprecht, Emil, Philadelphia, Pa. Mouth-organ. No. 1,339,960; May 11; v. 274; p. 321.
Lams, William R. (See Snelling and Lams.)
Lamson Company, The. (See Cowley, James T., assignor.)
Lamson Company, The. (See Hidden, Charles P., assignor.)
Lamson Company, The. (See Jennings, Chester S., assignor.)
Lamson Company, The. (See Pearsall, Albert W., assignor.)
La Munyon, Lynne, Soshone, Idaho. Bell-Ringer. No. 1,340,059; May 11; v. 274; p. 339.
Lamy, Joseph P., Woonsocket, R. I. Loose pulley. No. 1,331,440; Feb. 17; v. 271; p. 492.
Lanahan, James J., Buffalo, N. Y. Signal for vehicles. No. 1,357,064; Oct. 26; v. 279; p. 654.
Lanahan, William A., Memphis, Tenn. Electric heater for soldering-irons. No. 1,330,712; Feb. 10; v. 271; p. 287.
Lancaster, Acy, Malvern, Ohio. Nut-tightening device. No. 1,363,183; Dec. 21; v. 281; p. 533.
Lancaster, Edgar T., Palatka, Fla. Power plant. No. 1,358,219; Nov. 9; v. 280; p. 257.
Lancaster, Frank W., Philadelphia, Pa. Registering contribution-box. No. 1,348,012; July 27; v. 276; p. 708.
Lancaster, George W., Richmond, Va. Window and counterbalancing ventilating window-sashes. No. 1,361,163; Dec. 7; v. 281; p. 36.
Lancaster, John T. (See Brothers, E., and Lancaster.)
Lancaster, John T., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Pulling-over machine. No. 1,333,537; Mar. 9; v. 272; p. 309.
Lancaster, John T., Haverhill, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Upper-pulling machine. No. 1,362,631; Dec. 21; v. 281; p. 426.
Lancaster Lens Company, The. (See Meth, Max, assignor.)
Lance, Alfred F., Chicago, Ill. Spring structure. No. 1,352,612; Sept. 14; v. 278; p. 209.
Lanchester, Frederick W., London, England. Clutch and change-gear mechanism. No. 1,331,714; Feb. 24; v. 271; p. 564.
Lanchester, Frederick W., London, England. Eliminating torsional vibrations in high-speed engines, &c. No. 1,346,755; July 13; v. 276; p. 344.
Lanchester, George H., assignor to The Lanchester Motor Company, Limited, Birmingham, England. Vehicle-bonnet. No. 1,356,774; Oct. 26; v. 279; p. 596.
Lanchester Motor Company. (See Lanchester, George H., assignor.)
Lancit, Louis A, and B. U. Zarger, Newark, N. J. Dental instrument. No. 1,349,464; Aug. 10; v. 277; p. 312.
Land, Robert E., Albany, Ga. Running-in machine for gasolene-motors. No. 1,344,907; June 29; v. 275; p. 892.
Land, William M., and W. R. Carter, Riverside, Calif. Grapple. No. 1,357,099; Oct. 26; v. 279; p. 660.
Landa, Louis F., assignor of one-fourth to W. F. Schmalkuche and one-fourth to W. F. Schmalkuche, Jr., Flushing, N. Y. Spark-plug. No. 1,340,232; May 18; v. 274; p. 430.
Landau, Louis V., assignor to Landau's Instantaneous Duplicator Company, Los Angeles, Calif. Copying-pad. No. 1,348,812; Aug. 3; v. 277; p. 131.
Landau's Instantaneous Duplicator Company. (See Landau, Louis V., assignor.)
Landenberger, Charles H., Philadelphia, Pa. Brooder No. 1,339,264; May 4; v. 274; p. 113.
Lander, Thomas E., and J. Hauenstein, Kansas City, Mo. Flash-light. No. 1,363,132; Dec. 21; v. 281; p. 524.
Lander, Wintworth V., Newton, Mass., assignor to General Indurating Corporation, New York, N. Y. Impregnating apparatus. No. 1,339,400; May 11; v. 274; p. 214.
Landers, Clyde W., Portland, Oreg. Direction-indicator for automobiles or the like. No. 1,345,199; June 29; v. 275; p. 947.
Landers, David L., Estill, S. C. Railway-switch. No. 1,328,003; Jan. 13; v. 270; p. 271.
Landers, Frary & Clark. (See Carlson, Frederick E., assignor.)
Landers, Frary & Clark. (See Catlin, Hoyt, assignor.)
Landers, Frary & Clark. (See Lamb, Joseph F., assignor.)
Landers, Frary & Clark. (See Smith, Herbert M., assignor.)
Landers, Upton S., Bakersfield, Calif. Rim and clamping device for pneumatic tires. No. 1,363,884; Dec. 28; v. 281; p. 709.
Landers, William M., assignor of one-third to C. E. Bair and one-third to J. W. Genung, Gracemont, Okla. Folding camp-stove. No. 1,348,427; Aug. 3; v. 277; p. 59.
Landgraf, Frederick K., assignor to Flannery Bolt Company, Pittsburgh, Pa. Applying and securing stayholt-sleeves to boiler-sheets. No. 1,352,285; Sept. 7; v. 278; p. 110.
Landgrebe, Anton, New York, N. Y. Faucet. No. 1,340,060; May 11; v. 274; p. 340.

Digitized by Google

Alphabetical list of patentees—Continued.

Landgrebe, Anton, New York, N. Y. Tube-cap. No. 1,340,061; May 11; v. 274; p. 340.
Landine, Peter N., assignor to The Rostand Manufacturing Company, Milford, Conn. Hinge-lock. No. 1,348,813; Aug. 3; v. 277; p. 131.
Landis, Abraham B., Enfield, Pa. Change-speed transmission. No. 1,353,355; Sept. 21; v. 278; p. 415.
Landis, Abraham B., Enfield, assignor to Landis Machine Company, Waynesboro, Pa. Cutter-head. No. 1,344,908; June 29; v. 275; p. 892.
Landis, Clayton B., Philadelphia, Pa. Cabinet. No. 1,342,851; June 8; v. 275; p. 296.
Landis, Harry H., Telford, Pa. Calk attachment for horseshoes. No. 1,334,705; Mar. 23; v. 272; p. 635.
Landis Machine Company. (See Landis, Abraham B., assignor.)
Landis Machinery Company. (See Anderson, Gustaf A., assignor.)
Landis, Raymond F., Reading, Pa. Valve control and releasing device. No. 1,336,084; Apr. 6; v. 273; p. 72.
Landis, Walter S., assignor to American Cyanamid Company, New York, N. Y. Cyanid compound and producing the same. No. 1,359,257; Nov. 16; v. 280; p. 506.
Landmark, Hans B., Drammen, Norway. Production of tanning extract from waste sulfite lye. No. 1,327,105; Jan. 6; v. 270; p. 43.
Landon, Horace Z., Brookline, assignor to Rockwood Sprinkler Company of Massachusetts, Worcester, Mass. Sprinkler system. No. 1,359,511; Nov. 23; v. 280; p. 602.
Landquist, Julius W., Woodland, Calif. Ax-wedge. No. 1,362,945; Dec. 21; v. 281; p. 486.
Landrin, Paul, Lyon, France. Manufacture of explosive materials. No. 1,334,462; Mar. 23; v. 272; p. 590.
Landrivon, Joanny. (See Altwegg, J., and Landrivon.)
Landrum, Francis H., Columbus, Ohio. Automatic liquid-level controller. No. 1,354,311; Sept. 28; v. 278; p. 651.
Landrum, Frank M., Dallas, Tex. Fan-oscillating device. No. 1,333,925; Mar. 16; v. 272; p. 443.
Landry, Wallace J., Baton Rouge, La. Card-holder for garment-hangers. No. 1,348,952; Aug. 10; v. 277; p. 211.
Landstad, Halvor F. (See Pollen, H. H., and Landstad.)
Landstra, Dirk S., South Orange, N. J. Molding plastic materials. No. 1,340,452; May 18; v. 274; p. 471.
Landymore, James W., West Newton, Pa., and J. M. Harrison, Cumberland, Md. Coupling device. No. 1,359,391; Nov. 16; v. 280; p. 532.
Lane, Alfred M., assignor to Monarch Metal Products Company, St. Louis, Mo. Metal window-screen. No. 1,350,027; Aug. 17; v. 277; p. 494.
Lane, Alfred M., St. Louis, Mo. Wire attachment for fenceposts. No. 1,356,991; Oct. 26; v. 279; p. 639.
Lane, Alfred M., assignor to Monarch Metal Products Company, St. Louis, Mo. Weather-strip for expansion-joints. No. 1,357,713; Nov. 2; v. 280; p. 97.
Lane, Alfred M., assignor to Monarch Metal Products Company, St. Louis, Mo. Casement-window stay. No. 1,357,714; Nov. 2; v. 280; p. 97.
Lane, Charles C., Los Angeles, Calif. Multiple-process Chilian mill. No. 1,342,917; June 8; v. 275; p. 300.
Lane, Charles G., *et al.* (See Whitcomb, James, assignor.)
Lane, Charles H., and J. H. Steele, Portland, Oreg. Name-plate. No. 1,340,778; May 18; v. 274; p. 533.
Lane, Charles W., assignor of one-half to W. E. Griffith, Madrid, N. Y. Artificial fish-bait. No. 1,334,249; Mar. 16; v. 272; p. 503.
Lane, Edwin. (See Lichtenstein, Edwin.)
Lane, Frank A., Mendon, Mo. Pump-coupling. No. 1,338,739; May 4; v. 274; p. 17.
Lane, Frederic A., assignor to D. H. Burrell & Co., Little Falls, N. Y. Milking-machine. No. 1,354,666; Oct. 5; v. 279; p. 44.
Lane, George A., Chicago, Ill., assignor to American Meter Company, Incorporated, New York, N. Y. Gas-meter. No. 1,347,340; July 20; v. 276; p. 518.
Lane, Guy S., Philadelphia, Pa. Automatic oiler. No. 1,360,768; Nov. 30; v. 280; p. 917.
Lane, Harry L., Venice, Calif. Air-valve attachment for carburetors. No. 1,328,285; Jan. 13; v. 270; p. 816.
Lane, Henry M., Detroit, Mich. Track-support for overhead cranes. No. 1,332,627; Mar. 2; v. 272; p. 87.
Lane, Henry M., Detroit, Mich. Conveying mechanism. No. 1,340,962; May 25; v. 274; p. 639.
Lane, James H., Marshalltown, Iowa. Wrench. No. 1,344,542; June 22; v. 275; p. 757.
Lane, Major A., Paola, Kans. Automobile power apparatus. No. 1,331,652; Feb. 24; v. 271; p. 552.
Lane Manufacturing Company. (See Mitchell, James R., assignor.)
Lane, Melvin F., *et al.* (See Howard, Albertson, assignor.)
Lane, Philander E., Atlantic City, N. J. Drop-hammer. No. 1,337,520; Apr. 20; v. 278; p. 479.
Lane, Walter, Holland, Mich. Pneumatic and connection for pneumatic piano-players. No. 1,346,900; July 20; v. 276; p. 481.
Lane, William E., Clinton, Iowa. Eraser-cleaner. No. 1,357,406; Nov. 2; v. 280; p. 39.
Lanfear, Harold, Amberg, Wis. Comb-cleaner. No. 1,338,937; May 4; v. 274; p. 53.
Lang, Albert B., Maplewood, Mo. Jack. No. 1,361,593; Dec. 7; v. 281; p. 124.
Lang, Charles W., Philadelphia, Pa. Rapid-fire gun. No. 1,329,979; Feb. 3; v. 271; p. 118.
Lang, Charles W., Philadelphia, Pa. Rapid-fire gun. No. 1,333,498; Mar. 9; v. 272; p. 302.
Lang, Charles W., Philadelphia, Pa. Cartridge-feed mechanism for breech-loading firearms. No. 1,359,607; Nov. 23; v. 280; p. 621.
Lang, Charles W., Philadelphia, Pa. Rapid-fire gun. No. 1,359,608; Nov. 23; v. 280; p. 621.
Lang, Charles W., East Orange, N. J. Firing mechanism for firearms. No. 1,359,609; Nov. 23; v. 280; p. 621.
Lang, Donald W., and A. D. Vaughn, Eldred, Pa. Spark-plug. No. 1,353,597; Sept. 21; v. 278; p. 464.
Lang, Edward C., Melrose, and C. A. Van Derveer, Wakefield, Mass., assignors to Heywood Brothers and Wakefield Company. Upholstered seat-cushion. No. 1,336,525; Apr. 13; v. 273; p. 214.
Lang, George H., Boston, Mass. Listing-machine. No. 1,352,070; Sept. 7; v. 278; p. 69.
Lang, George L., assignor to Splitdorf Electrical Company, Newark, N. J. Combined distributer and connector. No. 1,338,989; May 4; v. 274; p. 62.
Lang, George L., assignor to Splitdorf Electrical Company, Newark, N. J. Combined timer and distributer. No. 1,356,532; Oct. 26; v. 279; p. 549.
Lang, George R., Beaver, Pa. Apparatus for and method of tempering springs. No. 1,362,708; Dec. 21; v. 281; p. 441.
Lang, Herbert, Oakland, Calif. Manufacture of iron and steel. No. 1,340,548; May 18; v. 274; p. 489.
Lang, John, assignor to Advance Manufacturing & Supply Company, Chicago, Ill. Band-wheel for hand-stamps. No. 1,362,329; Dec. 14; v. 281; p. 316.
Lang, John R. A., Mount Vernon, N. Y., assignor to Estey Piano Company, New York, N. Y. Player-piano. No. 1,354,767; Oct. 5; v. 279; p. 64.
Lang, John W., Redondo Beach, Calif. Chair. No. 1,349,164; Aug. 10; v. 277; p. 253.
Lang, Lincoln A., assignor to The Northern Trust Company, Chicago, Ill. Power-shift mechanism. No. 1,328,437; Jan. 20; v. 270; p. 390.
Lang, Lincoln A., assignor to The Northern Trust Company, Chicago, Ill. Fluid-pressure-controlling apparatus. No. 1,358,166; Nov. 9; v. 280; p. 246.
Lang, William C., Superior, Wis. Grain-door. No. 1,357,407; Nov. 2; v. 280; p. 39.
Langan, James J., New York, N. Y. Cigarette-box. No. 1,352,613; Sept. 14; v. 278; p. 200.
Langdon, Jesse D., Waterville, Wash. Auxiliary device for gas-engines. No. 1,338,938; May 4; v. 274; p. 53.
Langdon, Jesse D., Waterville, Wash. Fuel-vaporizing system for internal-combustion engines. No. 1,350,413; Aug. 24; v. 277; p. 615.
Langdon, Jesse D., Waterville, Wash. Hydraulic air-cushion. No. 1,350,414. Aug. 24; v. 277; p. 616.
Lange, Berthold A., St. Louis, Mo. Making box-joints; No. 1,362,330; Dec. 14; v. 281; p. 316.
Lange, Jens, Hellerup, Denmark, assignor to Dansk Varmekedel Syndikat System Lange, Fabrikant-Firma, Copenhagen, Denmark. Radiator for steam and water. No. 1,327,870; Jan. 13; v. 270; p. 246.
Lange, Max E. (See Burger, W. J., and Lange.)
Lange, William F., assignor to W. F. Ackemann, Elgin, Ill. Spark-plug. No. 1,354,617; Oct. 5; v. 279; p. 36.
Lange, William L., New York, N. Y. Banjo. No. 1,348,652; Aug. 3; v. 277; p. 101.
Langehennig, Lulu W., Guthrie, Okla. Lamp-shade. No. 1,358,563; Nov. 9; v. 280; p. 326.
Langelier, Antoine J. (See Brandt, C. A. W., and Langelier.)
Langenberg, Frederick C., Cambridge, Mass., and J. F. Fetterly, Altoona, Pa. Furnace for heat treatment of armor-piercing projectiles. No. 1,358,755; Nov. 16; v. 280; p. 410.
Langfelder, Frederick, assignor to Morimura Bros., New York, N. Y. Ornament for Christmas trees. No. 1,329,615; Feb. 3; v. 271; p. 51.
Langford, Walter R., Santa Maria, Calif. Wrench. No. 1,334,250; Mar. 16; v. 272; p. 503.
Langguth, Wilhelm, Esslingen, Germany, assignor, by mesne assignments, United States Envelope Company, Springfield, Mass. Making window-envelops. No. 1,341,807; June 1; v. 275; p. 39.
Langley, Charles E., Keokuk, Iowa. Phonographic-record cabinet. No. 1,337,922; Apr. 20; v. 273; p. 555.
Langley, Jesse R., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Controller. No. 1,343,214; June 15; v. 275; p. 431.
Langley, Jesse R., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Gear-shifting mechanism. No. 1,363,661; Dec. 28; v. 281; p. 666.
Langley, Jesse R., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Gear-shifting mechanism. No. 1,363,662; Dec. 28; v. 281; p. 666.
Langley, John W., *et al.* (See Barton, Charles N., assignor.)
Langley, Kate M. (See Mendal, Henry L., assignor.)

Digitized by Google

Langlyke, Peter I., Chicago, Ill. Spring structure for cushions. No. 1,352,977; Sept. 14; v. 278; p. 282.
Langmack, John J., Portland, Oreg. Automatic oil-pump with sight-feed. No. 1,343,677; June 15; v. 275; p. 521.
Langmuir, Irving, Schenectady, N. Y., assignor to General Electric Company. Method of and means for obtaining constant direct currents or potentials. No. 1,349,892; Aug. 17; v. 277; p. 468.
Langos, Otto A., assignor of three-fourths to M. M. Ostertag, Chicago, Ill. Toy. No. 1,334,867; Mar. 23; v. 272; p. 668.
Langrell, Edward W., Penns Grove, and J. J. Nuss, Carneys Point, N. J. Collapsible crate. No. 1,344,543; June 22; v. 275; p. 757.
Langston, Samuel M. (See Haase, J. S., and Langston.)
Langston, Samuel M., Company. (See Langston, Samuel M., assignor.)
Langston, Samuel M., Wenonah, assignor to Samuel M. Langston Company, Camden, N. J. Delivery-stand for rolled material. No. 1,339,460; May 11; v. 274; p. 226.
Langston, Samuel M., Wenonah, N. J., assignor to Samuel M. Langston Company, Camden, N. J. Cut-off mechanism. No. 1,359,076; Nov. 16; v. 280; p. 472.
Langton, George H., Princeton, W. Va., assignor of one-half to J. W. Small, Atlanta, Ga. Bushing-lock. No. 1,363,663; Dec. 28; v. 281; p. 666.
Lanham, Paul, Lanham, Md. Recording-meter. No. 1,334,912; Mar. 23; v. 272; p. 676.
Lanius, Charles H. (See Dysart, W. L., and Lanius.)
Lannert, John A., Cleveland, Ohio. Wall construction. No. 1,344,803; June 29; v. 275; p. 873.
Lannes, E. M. (See Howard, Jesse R., assignor.)
Lanning, Charles D. (See Field, M. F., and Lanning.)
Lanning, Charles D., Boston, Mass. Winding mechanism. No. 1,344,449; June 22; v. 275; p. 738.
Lanning, Edwin, La Casa, Tex. Door-holder. No. 1,354,046; Sept. 28; v. 278; p. 597.
Lanning, James K. (See Cunniff, E. A. and J. V., and Lanning.)
Lanning, John G., Detroit, Mich. Safety-valve. No. 1,340,832; May 18; v. 274; p. 543.
Lanning, Leonard M., Walla Walla, Wash. Pipe-lock. No. 1,350,900; Nov. 23; v. 280; p. 679.
Lanning, Lloyd W., Winona, Wash. Gang-plank. No. 1,356,074; Oct. 19; v. 279; p. 412.
Lanston Monotype Machine Company. (See Bancroft and Indahl, assignors.)
Lanston Monotype Machine Company. (See Bancroft and Knight, assignors.)
Lanston Monotype Machine Company. (See Bancroft, Wilfred, assignor.)
Lanston Montoype Machine Company. (See Indahl, Mauritz, assignor.)
Lanston Monotype Machine Company. (See Indahl, Mauritz C., assignor.)
Lantieri, Frank and G., Newark, N. J. Hair waver or curler. No. 1,352,978; Sept. 14; v. 278; p. 282.
Lantieri, Gabriel. (See Lantieri, Frank and G.)
Lantz, Elmer G., Tillamook, Oreg. Oil-burner. No. 1,332,181; Feb. 24; v. 271; p. 651.
Lantz, Eugene, Jersey City, N. J. Releasable bearing. No. 1,327,285; Jan. 6; v. 270; v. 76.
Lantz, Eugene, Jersey City, N. J. Releasable bearing. No. 1,327,286; Jan. 6; v. 270; p. 76.
Lanum, Walter R., Savannah, Ga. Heater. No. 1,328,743; Jan. 20; v. 270; p. 447.
Lanyon, A. H., trustee. (See Perkins, Richard E., assignor.)
Lanz, Andrew, Pittsburgh, Pa. Fuel-feeding apparatus. No. 1,327,764; Jan. 13; v. 270; p. 227.
Lanz, Andrew, Pittsburgh, Pa. Apparatus for burning solid fuel. No. 1,327,765; Jan. 13; v. 270; p. 227.
Lanz, Ray S. (See Wilson, James M., assignor.)
Lanzetta, Francesco, Brooklyn, N. Y. Vise attachment. No. 1,328,049; Jan. 13; v. 270; p. 280.
La Paul, Carrie M. (See La Paul, George F., assignor.)
La Paul, George F., assignor to C. M. La Paul, Excelsior, Minn. Deflector for headlights. No. 1,330,481; Feb. 10; v. 271; p. 243.
Lape, Daniel, Fort Thomas, Ky. Stove or furnace. No. 1,334,039; Mar. 16; v. 272; p. 465.
Lapeer Tractor Truck Company. (See Winn, Sidney B., assignor.)
Lapenda, George, Chicago, Ill. Valve or cock. No. 1,342,051; June 1; v. 275; p. 86.
Lapham, Frank W., Lake Beulah, Wis. Carbueting-screen for intake-valves. No. 1,340,062; May 11; v. 274; p. 340.
Lapham, Frank W., Cicero, Ill. Carbureting-screen. No. 1,353,248; Sept. 21; v. 278; p. 394.
Lapham, Ralph E., San Francisco, Calif. Centrifugal separating-machine. No. 1,336,968; Apr. 13; v. 273; p. 300.
Lapin, Samuel, Philadelphia, Pa. Cleaning-pad. No. 1,362,426; Dec. 14; v. 281; p. 334.
Lapka, Andrzej, Simpson, Pa. Churn. No. 1,337,777; Apr. 20; v. 273; p. 528.
La Point, Steve, assignor to U. D. Fortier, and J. Burke, Tulsa, Okla. Drill tightening and loosening jack. No. 1,358,319; Nov. 9; v. 280; p. 277.
Lapointe, Donald H., Hartford, Conn. Collet-chuck. No. 1,359,077; Nov. 16; v. 280; p. 472.
Lapointe, Francis J., Ann Arbor, Mich. Cutter-bar and bushing therefor. No. 1,339,656; May 11; v. 274; p. 264.
Lapointe, Francis J., Ann Arbor, Mich. Finishing-broach. No. 1,339,657; May 11; v. 274; p. 264.
Lapointe Machine Tool Company. (See Blanchard, Harry E., assignor.)
Lapointe, Ralph R., Hudson, assignor of one-half to Benjamin F. Levy, Boston, Mass. Broach-operating mechanism. No. 1,362,536; Dec. 14; v. 281; p. 356.
La Porte, Norbert M., Baltimore, Md., assignor to The Crown Cork and Seal Company of Baltimore City. Filling and capping machine. No. 1,382,264; Mar. 2; v. 272; p. 17.
La Porte, Ralph P., Schenectady, N. Y. Electric welding appliance. No. 1,337,662; Apr. 20; v. 273; p. 505.
La Porte, Ralph P., Schenectady, N. Y. Superheater-pipe support. No. 1,363,520; Dec. 28; v. 281; p. 639.
Lappalainen, Alfred, Vancouver, British Columbia, Canada. Violin-support. No. 1,337,459; Apr. 20; v. 273; p. 467.
Lappen, James E., Winona, Minn. Electric cooker. No. 1,332,221; Mar. 2; v. 272; p. 8.
La Precision Mecanique. (See Martet, Eugène C., assignor.)
Lara, Francisco, assignor, by mesne assignments, of one-half to E. S. Mekeel, Manila, Philippine Islands. Making soap. No. 1,335,246; Mar. 30; v. 272; p. 798.
Larais, Giuseppe C., New York, N. Y. Barber-chair. No. 1,334,157; Mar. 16; v. 272; p. 487.
Laraway, William H., Grand Rapids, Mich. Coal-sifter. No. 1,361,267; Dec. 7; v. 281; p. 57.
Lard, Allan E. (See Buckley and Lard.)
Larimore, George L., Oklahoma, Okla. Fencepost. No. 1,352,203; Sept. 7; v. 278; p. 94.
Larison, Eldon L., Anaconda, Mont. Acid plant. No. 1,334,384; Mar. 23; v. 272; p. 576.
Larison, Eldon L., Anaconda, Mont. Making sulfuric acid. No. 1,342,024; June 1; v. 275; p. 81.
Lark, Edwin F., Washington, D. C. Baby-carriage. No. 1,357,878; Nov. 2; v. 280; p. 129.
Larkin, Elwood T. (See Criqui, C. A., and Larkin.)
Larkin, Francis C., Rutherford, N. J. Closure for milk-bottles. No. 1,329,248; Jan. 27; v. 270; p. 572.
Larkin, John J., Bartlesville, Okla. Making casing-shoes, &c. No. 1,348,013; July 27; v. 276; p. 708.
Larkin, Walter, assignor to H. Brinton Company, Philadelphia, Pa. Yarn-changer. No. 1,359,258; Nov. 16; v. 280; p. 506.
Larkin, William, Tacoma, Wash. Reflector. No. 1,333,551; Mar. 9; v. 272; p. 312.
Larkins, William B. (See Pape, August H., assignor.)
Larned, Carter & Company. (See Carter, David S., assignor.)
Larner, Chester W. (See Taylor, H. B., and Larner.)
Larner, Chester W., Philadelphia, Pa. Valve. No. 1,339,114; May 4; v. 274; p. 87.
Larner, Chester W., Philadelphia, Pa. Means for controlling valves. No. 1,362,331; Dec. 14; v. 281; p. 316.
Laroche, Emile, Montreal, Quebec, Canada. Fountain-brush. No. 1,350,415; Aug. 24; v. 277; p. 616.
La Roche, Frank, Hampstead, London, England. Electrically-driven road-vehicle. No. 1,333,121; Mar. 9; v. 272; p. 231.
La Rock, Barney, Kansas City, Mo. Safety-razor. No. 1,336,969; Apr. 13; v. 273; p. 300.
La Rose, Eugene E., Providence, R. I., assignor of one-half to J. J. McCabe, Glens Falls, N. Y. Resilient wheel structure. No. 1,335,443; Mar. 30; v. 272; p. 835.
Larrabee, Clinton E., Binghamton, N. Y., assignor to International Time Recording Company of New York. Recorder and registering locks. No. 1,327,334; Jan. 6; v. 270; p. 84.
Larrabee, Clinton E., Binghamton, assignor to International Time Recording Company, New York, N. Y. Coaster-recorder. No. 1,334,956; Mar. 30; v. 272; p. 743.
Larrabee, Clinton E., assignor to International Time Recording Company of New York, Binghamton, N. Y. Synchronizing-clock. No. 1,338,309; Apr. 27; v. 273; p. 698.
Larrabee, Clinton E., Binghamton, N. Y., assignor to The International Time Recording Company of New York. Elimination device for time-recorders. No. 1,357,461; Nov. 2; v. 280; p. 49.
Larrabee, Clinton E., Binghamton, assignor to International Time Recording Company of New York. Recording-lock. No. 1,357,715; Nov. 2; v. 280; p. 97.
Larrick, Charles, Los Angeles, Calif. Audiphone. No. 1,351,254; Aug. 31; v. 277; p. 841.
Larrowe Milling Company, The. (See Wertenbruch, Antony, assignor.)
Larsen, Absalon, Gentofte, near Copenhagen, Denmark. Electricity-meter of the induction-motor type for three-phase alternating current. No. 1,355,153; Oct. 12; v. 279; p. 192.
Larsen, Andrew, Shaunavon, Saskatchewan, Canada. Cultivator. No. 1,354,495; Oct. 5; v. 279; p. 9.

Digitized by Google

Larsen, Arnold, assignor to The Wm. Gent Vending Machine Company, Cleveland, Ohio. Apportioning device. No. 1,327,678; Jan. 13; v. 270; p. 210.
Larsen, Axel, Aalborg, Denmark, assignor to F. L. Smidth & Co., New York, N. Y. Rotary kiln. No. 1,358,759; Nov. 16; v. 280; p. 411.
Larsen, Axel, Aalborg, Denmark, assignor to F. L. Smidth & Co., New York, N. Y. Rotary kiln. No. 1,358,760. Nov. 16; v. 280; p. 411.
Larsen, Axel, Aalborg, Denmark, assignor to F. L. Smidth & Co., New York, N. Y. Rotary kiln. No. 1,358,761; Nov. 16; v. 280; p. 411.
Larsen, Edward A., Larkspur, Calif. Compressor-mold for forming concrete hulls. No. 1,343,176; June 8; v. 275; p. 360.
Larsen, Jullus, Copenhagen, Denmark. Pegging-machine. No. 1,346,715; July 13; v. 276; p. 336.
Larsen, Lee, Tampico, Mexico. Antifriction-buffer. No. 1,347,389; July 20; v. 276; p. 527.
Larsen, Louis, Brooklyn, assignor, to Sundh Electric Company, New York, N. Y. Electromagnet. No. 1,345,450; July 6; v. 276; p. 24.
Larsen, Magnus, Armstrong, Iowa. Wagon-dump. No. 1,333,429; Mar. 9; v. 272; p. 289.
Larsen, Martin. (See Zeuthen, A. C. A., and Larsen.)
Larsen, Olaf. (See Valerius, T. L., and Larsen.)
Larsh, Everett P., assignor to The Burnett-Larsh Manufacturing Company, Dayton, Ohio. Electric system. No. 1,347,546; July 27; v. 276; p. 615.
Larsh, John M., Terre Haute, Ind. Load-equalizer for vehicles. No. 1,363,327; Dec. 28; v. 281; p. 602.
Larson, Albert, Lucan, Minn. Spoon and fork combined. No. 1,351,045; Aug. 31; v. 277; p. 801.
Larson, Albert, Minneapolis, Minn. Spoon and fork combined. No. 1,351,046; Aug. 31; v. 277; p. 801.
Larson, Algot J. E., assignor to Art Metal Construction Company, Jamestown, N. Y. Cabinet. No. 1,329,616; Feb. 3; v. 271; p. 51.
Larson, Anna J., Sherburn, Minn. Loading device. No. 1,327,436; Jan. 6; v. 270; p. 103.
Larson, August V., Brooklyn, N. Y. Expansion-engine. No. 1,343,056; June 8; v. 275; p. 336.
Larson, Axel B. (See Hammitt, Marvin L., assignor.)
Larson, Carl F., Chicago, Ill. Measuring instrument. No. 1,338,926; Mar. 16; v. 272; p. 443.
Larson, David C., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Electric welding of alternating-current motors. No. 1,361,075; Dec. 7; v. 281; p. 19.
Larson, Edward, Hartford, Conn. Sash-lock. No. 1,336,242; Apr. 6; v. 273; p. 102.
Larson, Edward E., Thompson, Iowa. Apparatus for reboring cylinders. No. 1,344,410; June 22; v. 275; p. 730.
Larson, Edward E., Thompson, Iowa. Adjustable reamer. No. 1,344,411; June 22; v. 275; p. 730.
Larson, Edward E., Thompson, Iowa. Tractor. No. 1,352,286; Sept. 7; v. 278; p. 110.
Larson, Elmer L. (See Ferguson, T. R., and Larson.)
Larson, Enoch J., Trenton, N. J. Jar-cover remover. No. 1,358,452; Nov. 9; v. 280; p. 305.
Larson, Harry. (See Holtsclaw, G. W., and Larson.)
Larson, Helen O., Los Angeles, Calif. Cooking utensil. No. 1,338,378; Apr. 27; v. 273; p. 711.
Larson, Jonn V. (See Dies, Charles A., assignor.)
Larson, Leonard M., and C. J. Carlson, Tacoma, Wash. Clothes-tongs. No. 1,350,028; Aug. 17; v. 277; p. 494.
Larson, Louis H., Santiago, Minn. Tile-trench digger. No. 1,327,335; Jan. 6; v. 270; p. 84.
Larson, Otto, Chicago, Ill. Pneumatic-tire shoe. No. 1,355,609; Oct. 12; v. 279; p. 281.
Larson, Peter S., Beloit, Wis. Demountable rim. No. 1,348,122; July 27; v. 276; p. 730.
Larson, Walford, Detroit, Mich. Cultivator. No. 1,344,804; June 29; v. 275; p. 873.
Larson, Walter J., Wrangell, Alaska. Piston-cooling device for internal-combustion engines. No. 1,346,407; July 13; v. 276; p. 274.
Larsson, Ernst, assignor to The Ohio Brass Company, Mansfield, Ohio. Safety uncoupling device. No. 1,359,715; Nov. 23; v. 280; p. 642.
Larsson, Sven, Stockholm, Sweden. Machine applicable as pump, compressor, or motor. No. 1,348,814; Aug. 3; v. 277; p. 131.
Larsson, Thure, assignor to Norton Company, Worcester, Mass. Grinding-wheel-balancing device. No. 1,352,005; Sept. 7; v. 278; p. 58.
Larsson, Thure, assignor to Norton Company, Worcester, Mass. Sliding-machine. No. 1,361,794; Dec. 7; v. 281; p. 163.
Larter & Sons. (See Kohlhepp, Frederick A., assignor.)
La Rue, Eugene C. and M. E., South Pasadena, Calif. Infant's bath-wagon. No. 1,327,242; Jan. 6; v. 270; p. 68.
La Rue, Mabel E. (See La Rue, Eugene C. and M. E.)
La Rue, Willis E., assignor of one-half to W. P. Hall, Indianapolis, Ind. Faucet. No. 1,336,970; Apr. 13; v. 273; p. 300.
La Rue, Willis E., assignor of one-half to William P. Hall, Indianapolis, Ind. Faucet. No. 1,351,524; Aug. 31; v. 277; p. 895.
La Salle Institute. (See Fraser, Joseph A., assignor.)
La Selle, Burton R., Chicago, Ill. Hat sizing, blocking, and drying machine. No. 1,356,992; Oct. 26; v. 279; p. 639.
Laserson, Frederick M., New York, N. Y. Perforating-machine. No. 1,346,217; July 13; v. 276; p. 236.
Laserson, Frederick M., New York, N. Y. Pocket-marking machine. No. 1,353,051; Sept. 14; v. 278; p. 296.
Laserson, Frederick M., New York, N. Y. Electrical cloth-cutter. No. 1,353,052; Sept. 14; v. 278; p. 297.
Laserson, Frederick M., New York, N. Y. Portable saw. No. 1,352,519; Sept. 14; v. 278; p. 190.
Lash, Dana, Winslows Mills, Me. Bean-snipping machine. No. 1,358,002; Nov. 9; v. 280; p. 214.
Lasher, Henry M. (See Sibley and Lasher.)
Lasher, Henry M., assignor to The Kansas City Refining Company, Kansas City, Kans. Apparatus for producing hydrochloric acid. No. 1,335,743; Apr. 6; v. 273; p. 8.
Lasher, Henry M., assignor to The Kansas City Refining Company, Kansas City, Kans. Producing hydrochloric acid utilizing sludge acid. No. 1,337,141; Apr. 13; v. 273; p. 332.
Lasher, Henry M., assignor to The Kansas City Refining Company, Kansas City, Kans. Apparatus for producing hydrochloric acid utilizing sludge acid. No. 1,339,519; May 11; v. 274; p. 237.
Lasher, Willis W., Rahway, N. J., assignor to N. D. Baker, Secretary of War, trustee. Ankle-brace. No. 1,332,047; Feb. 24; v. 271; p. 627.
Lashley, Arnold B., Saichacket, Alaska. Rifling for firearms. No. 1,335,444; Mar. 30; v. 272; p. 835.
Lask, Stephan J., Cleveland, Ohio, Adjustable parallel. No. 1,335,247; Mar. 30; v. 272; p. 798.
Lask, Stephen J., Cleveland, Ohio. Curtain-fixture. No. 1,344,412; June 22; v. 275; p. 730.
Lasker, William W., Brooklyn, assignor to Powers Accounting Machine Company, New York, N. Y. Controlling means. No. 1,352,006; Sept. 7; v. 278; p. 58.
Lasker, William W., Brooklyn, assignor to Powers Accounting Machine Company, New York, N. Y. Reinking device for ribbons. No. 1,358,083; Nov. 9; v. 280; p. 231.
Lasko, Henry, New York, N. Y. Stamping-machine. No. 1,354,408; Sept. 28; v. 278; p. 671.
La Société Anonyme dite Ateliers De Constructions Electriques Du Nord Et De L'Est. (See Rouviere, Ulysse, assignor.)
La Societe Le Coke Industriel (Societe Anonyme). (See Lioud, Frank, assignor.)
La Societe Lyonnaise Des Rechauds Catalytiques, Camell, Cochet, Gritte & Cie. (See Herck, Jean, assignor.)
La Société Robin, Grenier Vidy and G. Zwingelstein. (See Grenier, Fernand, assignor.)
Lasota, Louis L., Lackawanna, N. Y. Car-coupling. No. 1,360,233; Nov. 23; v. 280; p. 744.
Lassen, Jens J., London, and J. L. Gilbert, Kew, England. Instrument for indicating or recording the flow of liquids. No. 1,355,764; Oct. 12; v. 279; p. 311.
Lassiter, Columbus K., Richmond, Va. Milling-cutter. No. 1,359,179; Nov. 16; v. 280; p. 490.
Lastinger, Albert E., Ooltewah, Tenn. Underscorer for typewriters. No. 1,350,029; Aug. 17; v. 277; p. 495.
La Taste, John J., Macon, Ga. Boat's propulsion mechanism. No. 1,329,778; Feb. 3; v. 271; p. 80.
Latham, Albert, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Shoe-sewing machine. No. 1,341,061; May 25; v. 274; p. 658.
Latham, Albert, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Skiving-machine. No. 1,342,120; June 1; v. 275; p. 100.
Latham Automatic Registering Company. (See Sauter, Herman, assignor.)
Latham, Charles L., Berkeley, and L. Hester, Vallejo, Calif. Hand-truck brake. No. 1,348,428; Aug. 3; v. 277; p. 59.
Latham, George E., and W. F. Whiteman, San Francisco, Calif. Heat-distributer. No. 1,361,795; Dec. 7; v. 281; p. 163.
Latham, Leonard, Columbus, Ohio. Liquid-fuel-vending machine. No. 1,338,229; Apr. 27; v. 273; p. 683.
Latham Machinery Company. (See Weber, H., and Richardson, assignors.)
Lathrop, Andrew C., Yantic, Conn. Closure for bottles and other receptacles. No. 1,348,014; July 27; v. 276; p. 708.
Lathrop, Edward K. (See Myers, Charles D., assignor.)
Lathrop, Frank L. O. (See Edsall and Lathrop.)
Lathrop, Harold A. (See Scheurer, R. C., and Lathrop.)
Lathrop, Harry D., Chicago, Ill. Carrier for can-washing machines. No. 1,336,568; Apr. 13; v. 273; p. 223.
Lathrop, Harry D., Chicago, Ill. Cargo-stop. No. 1,336,569; Apr. 13; v. 273; p. 223.
Lathrop, Harry D., and W. H. Paulson, Chicago, Ill; said Paulson assignor to said Lathrop. Can-reversing mechanism for can-washing machines. No. 1,336,567; Apr. 13; v. 273; p. 223.
Lathrop, Harry D., and W. H. Paulson, Chicago, Ill.; said Paulson assignor to said Lathrop. Can-washing machine. No. 1,336,570; Apr. 13; v. 273; p. 223.
Latier, Alexander, Jersey City, N. J. Calendar. No. 1,339,401; May 11; v. 274; p. 214.

Digitized by Google

La Tour, Lee, and A. F. Munnell, assignors of one-third to W. Small, Omaha, Nebr. Roller for printing-presses. No. 1,345,200; June 29; v. 275; p. 948.
Latour, Marius, Paris, France. Generator of sustained electric waves or oscillations. No. 1,354,312; Sept. 28; v. 278; p. 657.
Latour, Marius C. A., Paris, France. High-frequency electric generator. No. 1,330,638; Feb. 10; v. 271; p. 273.
Latshaw, Joseph W. (See Baines, J. E., and Latshaw.)
Latshaw, Joseph W., assignor to National Tube Company, Pittsburgh, Pa. Apparatus for dressing skelp. No. 1,349,070; Aug. 10; v. 277; p. 234.
Latta, Emmit G., Syracuse, N. Y. Typewriting-machine. No. 1,331,441; Feb. 17; v, 271; p. 492.
Latta, Emmit G., Syracuse, N. Y. Typewriting-machine. No. 1,331,442; Feb. 17; v. 271; p. 492.
Latterell, Samuel and W. E., Deepcreek, Wash. Means for tightening loose rims and spokes on automobile-wheels. No. 1,331,653; Feb. 24; v. 271; p. 552.
Latterell, William E. (See Latterell, Samuel and W. E.)
Lattig, Jacob W., Glenside, Pa., and C. L. Goodrum, Urbana, Ohio, assignors, by mesne assignments, to Western Electric Company, Incorporated. Automatic telephone-exchange system. No. 1,355,983; Oct. 19; v. 279; p. 394.
Lau, Richard. (See Heiby, C. G., Burkam, Lindquist, Allen, Riggin, and Lau.)
Laube, Arthur, New Bedford, Mass. Non-refillable bottle. No. 1,337,923; Apr. 20; v. 273; p. 555.
Laudiero, Nicholas, New York, N. Y. Toothbrush. No. 1,329,980; Feb. 3; v. 271; p. 119.
Lauer, George L., Beatrice, Nebr. Mud-shoe. No. 1,349,514; Aug. 10; v. 277; p. 322.
Lauer, Jacob, Jr., Cherokee, Iowa. Draw-bar for tractors. No. 1,337,521; Apr. 20; v. 273; p. 479.
Laufer, Ernest W. D. (See Weaver, A. T., Laufer, and von Wintzingerode.)
Lauffer, Frank P. (See Kempton, W. H., Gudge, and Lauffer.)
Laughlin, Carlisle. (See Hofmann, J. R., and Laughlin.)
Laughlin, Edward A., Port Arthur, Tex. Building construction. No. 1,353,998; Sept. 28; v. 278; p. 588.
Laughlin, Frank D. (See Hayes, B. P., and Laughlin.)
Laughlin Fruit Refiners Inc. (See Winchester, William I., assignor.)
Laughlin, Henry, Horton, Mich. Gate-hinge. No. 1,332,851; Mar. 2; v. 272; p. 129.
Laughlin, Homer, Jr. (See Winchester, W. I., and Laughlin.)
Laughton, R. E., and P. E. Barnes, assignors to Hamel Shoe Machinery Company, Haverhill, Mass. Heel-breasting machine. No. 1,352,007; Sept. 7; v. 278; p. 58.
Launbranch, Malcolm E., Chicago, Ill. Electric sign. No. 1,339,566; May 11; v. 274; p. 246.
Laurency, Nicolas, Dolhain, Belgium. Gearing for self-acting mules. No. 1,330,880; Feb. 17; v. 271; p. 387.
Laurenson, John M. (See Walker, S. L., and Laurenson.)
Laurent, Augustus D., Westfield, N. J. Rule. No. 1,360,539; Nov. 30; v. 280; p. 872.
Laurent, Milton P. (See Mahana, C. G., Glidden, and Laurent.)
Laurer, William J., and J. O'Halloran, Argyle, Minn. Dental-engine head. No. 1,333,809; Mar. 16; v. 272; p. 421.
Laursen, Laurits A., Eau Claire, Wis. Fluid-operated gear-shifting mechanism. No. 1,329,779; Feb. 3; v. 271; p. 81.
Laussucq, Henri P. L., assignor to H. Lippincott and A. J. Major, as receivers of Camden Iron Works, Camden, N. J. Filling system for presses. No. 1,357,330; Nov. 2; v. 280; p. 25.
Laussucq, Henri P. L., assignor to H. Lippincott and A. J. Major, receivers of Camden Iron Works, Camden, N. J. System of hydraulic control for intensifiers and the like. No. 1,362,253; Dec. 14; v. 281; p. 301.
Lauster, August P., Brooklyn, N. Y., assignor to H. F. Maynes, Gaines, Pa. Speedway amusement device. No. 1,353,918; Sept. 28; v. 278; p. 571.
Lauster, August P., assignor to American Rides Corporation, Brooklyn, N. Y. Amusement device. No. 1,363,133; Dec. 21; v. 281; p. 524.
Lausterer, William J., Jamestown, N. Y. Voting-key mechanism. No. 1,363,885; Dec. 28; v. 281; p. 709.
Lautenschläger, Ludwig C. (See Klever, H., Lautenschläger, and Göhring.)
Lautenschlager, William F., Cincinnati, Ohio, assignor to Lorenz Muther, Newton, Mass. Member for shoe-uppers. No. 1,351,722; Aug. 31; v. 277; p. 934.
Lauterbur, Frank X., Sidney, Ohio. Reversible double speed, friction and gear drive for dough-mixers. No. 1,336,783; Apr. 13; v. 273; p. 264.
Lautner, Ernest S., Solon township, Leelanau county, Mich. Fruit-grader. No. 1,337,924; Apr. 20; v. 273; p. 556.
Lauzon, Mabel M., Chicago, Ill. Garment. No. 1,336,303; Apr. 6; v. 273; p. 118.
Lavalee, William, Central Falls, R. I. Safety-driver for road-vehicles. No. 1,344,238; June 22; v. 275; p. 696.
La Valle, Ralph, Manistee, Mich. Coasting device. No. 1,356,725; Oct. 26; v. 279; p. 587.
Lavallee, Wilfrid J. O., Montreal, Quebec, Canada. Clutch mechanism. No. 1,334,103; Mar. 16; v. 272; p. 477.
Lave, Henry, Milwaukee, Wis. Two-wheel drive. No. 1,349,212; Aug. 10; v. 277; p. 262.
Lavenberg, Perry C., South Bend, Ind., assignor to Wirebounds Patents Company, Chicago, Ill. Box. No. 1,340,489; May 18; v. 274; p. 478.
La Vercombe, Harley H., Detroit, Mich. Device for expanding reamers. No. 1,353,535; Sept. 21; v. 278; p. 451.
Lavercombe, James. (See Rowe, C. B., and Lavercombe.)
Lavers, Harry I., West Somerville, Mass. Work-holding clamp. No. 1,353,353; Sept. 21; v. 278; p. 415.
Lavier, Charles, Syracuse, N. Y. Gearless differential. No. 1,337,460; Apr. 20; v. 273; p. 467.
Lavigne, Joseph P., assignor to Detroit Mechanical Engineering Company, Detroit, Mich. Universal joint. No. 1,331,775; Feb. 24; v. 271; p. 575.
Lavigne, Joseph P., assignor to Detroit Mechanical Engineering Company, Detroit, Mich. Hose-coupling. No. 1,349,284; Aug. 10; v. 277; p. 277.
Lavigne, Joseph P., assignor to United States Novelty Mfg. Co., Detroit, Mich. Packless valve. No. 1,353,053; Sept. 14; v. 278; p. 297.
Lavoie, Alphonse J., Montreal, Quebec, Canada. Chuck. No. 1,341,015; May 25; v. 274; p. 649.
Lavoie, Joseph P., Epping, N. H. Rail-joint. No. 1,355,154; Oct. 12; v. 279; p. 192.
Lavoisier, Lucien, Paris, France. Ignition-plug for internal-combustion engines. No. 1,327,482; Jan. 6; v. 270; p. 112.
Lavryk, Feodosy, Chicago, Ill. Life-saving device. No. 1,341,752; June 1; v. 275; p. 28.
Law, Charles H., Forest Hill, N. Y. Vault-light, skylight, or floor-light construction. No. 1,360,416; Nov. 30; v. 280; p. 848.
Law, Charles H., Forest Hill, assignor to American Bar-Lock Company, New York, N. Y. Vault-light, skylight, or floor-light construction. No. 1,353,919; Sept. 28; v. 278; p. 571.
Law, E. McIvor, Arcadia, Fla. Convertible protective covering. No. 1,346,320; July 13; v. 276; p. 258.
Law, George A., assignor of one-half to T. F. Hickey, Mechanicsville, N. Y. Automatic lock for switch-stands. No. 1,358,376; Nov. 9; v. 280; p. 289.
Law, George H., Portland, Me. Rolling automobile-jack. No. 1,339,827; May 11; v. 274; p. 296.
Law, Herbert E., and E. Pooler, San Francisco, Calif. Lath-weaving machine. No. 1,336,908; Apr. 13; v. 273; p. 289.
Lawa, Richard, New York, N. Y. Combination gas-range. No. 1,340,615; May 18; v. 274; p. 502.
Lawes, William F., Bedford, N. H. Dumping device. No. 1,328,928; Jan. 27; v. 270; p. 512.
Lawhead, Lester A., St. Joseph, Mo. Traffic-signal. No. 1,351,857; Sept. 7; v. 278; p. 29.
Lawhun, Samuel M., assignor, by mesne assignments, to Invincible Cinema Camera Corporation, Jersey City, N. J. Moving-picture camera. No. 1,359,392; Nov. 16; v. 280; p. 533.
Lawler, Edward M., Royal Oak township, Oakland county, Mich. Internal-combustion engine. No. 1,354,667; Oct. 5; v. 279; p. 44.
Lawley, Ira, Groesbeck, Tex. Air-pump. No. 1,356,160; Oct. 19; v. 279; p. 430.
Lawlor, William T., Jersey City, N. J. Railway-switch heater. No. 1,327,483; Jan. 6; v. 270; p. 112.
Lawn, William E., Rochester, N. Y. External-explosion engine. No. 1,328,160; Jan. 13; v. 270; p. 301.
Lawrence, A. C., Leather Company. (See Libby, Chester D., assignor.)
Lawrence, A. C., Leather Company. (See Merrill, Edward H., assignor.)
Lawrence Airplane Model and Supply Company. (See Thurnau, Arthur F., assignor.)
Lawrence Artificial Limb Co. (See Lawrence, Louis C., assignor.) (Reissue.)
Lawrence, Athol E. N., Rustenberg, Transvaal, South Africa. Hammer for pianos and similar instruments. No. 1,353,357; Sept. 21; v. 278; p. 416.
Lawrence, Charles L., Bayshore, N. Y. Lubricating system for high-speed engines. No. 1,338,310; Apr. 27; v. 273; p. 698.
Lawrence Duck Company. (See Barrell William L. assignor.) (Reissue.)
Lawrence, E. V., Safety Brake Company. (See Lawrence, Edward V., assignor.)
Lawrence, Edgar W., Bath, England. Self-oiling pulley. No. 1,354,768; Oct. 5; v. 279; p. 64.
Lawrence, Edward H., Cameron, W. Va., and R. E. Crane, Wilmette, Ill. Making sanitary earthenware. No. 1,337,663; Apr. 20; v. 273; p. 506.
Lawrence, Edward M., Rockland, Me. Cooking apparatus. No. 1,350,030; Aug. 17; v. 277; p. 495.
Lawrence, Edward V., Englewood, N. J., assignor to E. V. Lawrence Safety Brake Company, Inc., New York, N. Y. Automobile-brake. No. 1,350,318; Aug. 24; v. 277; p. 597.
Lawrence, Emma K. (See Lawrence, Frederick C., assignor.)
Lawrence, Franklin P., University City, Mo. Open-slot conduit. No. 1,350,658; Aug. 24; v. 277; p. 663.

Digitized by Google

Lawrence, Frederick C., assignor to E. K. Lawrence, New York, N. Y. Aeroplane. No. 1,351,918; Sept. 7; v. 278; p. 41.
Lawrence, Frederick K., Chicago, Ill. Grease-cup filler. No. 1,341,652; June 1; v. 275; p. 7.
Lawrence Frederick K. Chicago Ill. Multiple-socket head. No. 1,360,121; Nov. 23; v. 280; p. 723.
Lawrence, George L., Jr., assignor to Boston Rubber Shoe Company, Melrose, Mass. Rubber shoe and making same. No. 1,352,008; Sept. 7; v. 278; p. 58.
Lawrence, James C., West Asheville, N. C. Brace for milling-machines. No. 1,342,390; June 1; v. 275; p. 151.
Lawrence, John T., Inman, S. C. Seed-cotton culler. No. 1,340,063; May 11; v. 274; p. 340.
Lawrence, Louis C., assignor to Lawrence Artificial Limb Co., Inc., Brooklyn, N. Y. Artificial limb. (Reissue.) No. 15,006; Dec. 14; v. 281; p. 866.
Lawrence, Melvin G., Revere, Mass. Fishline-spreader. No. 1,352,979; Sept. 14; v. 278; p. 283.
Lawrence, Oscar A., San Francisco, Calif. Pressure-bar. No. 1,349,213; Aug. 10; v. 277; p. 262.
Lawrence Sperry Aircraft Company, The. (See Sperry, Lawrence B., assignor.)
Lawson, Albert F. (See Lockey, G. B., and Lawson.)
Lawson, Arthur J., Chicago, Ill. Border-light. No. 1,360,417; Nov. 30; v. 280; p. 848.
Lawson, Frank G., Aberdeen, Wash. Tool. No. 1,355,053; Oct. 5; v. 279; p. 120.
Lawson, Frans O. (See Wright, J. B., and Lawson.)
Lawson, George D., Pocahontas, Iowa. Transmission-drum clamp. No. 1,359,815; Nov. 23; v. 280; p. 662.
Lawson, Gottfirid C., Cleveland, Ohio. Pipe-wrench. No. 1,362,014; Dec. 14; v. 281; p. 254.
Lawson, Homer C. (See Elsey, B., Zwick, and Lawson.)
Lawson, Joel S. (See Maxwell, M. P., and Lawson.)
Lawson, John F., Oshawa, Ontario, Canada. Safety attachment for power-presses. No. 1,357,643; Nov. 2; v. 280; p. 83.
Lawson Manufacturing Company. (See Parisen, Robert T., assignor.)
Lawson, Thomas M., Indianapolis, Ind. Renovating used wool and cotton journal-box waste. No. 1,362,946; Dec. 21; v. 281; p. 487.
Lawson, William C., Roanoke, Va. Locomotive. No. 1,327,243; Jan. 6; v. 270; p. 68.
Lawson, William E., Rahway, and W. R. Smith, Westfield, N. J. Bottle warmer and sterilizer. No. 1,354,409; Sept. 28; v. 278; p. 671.
Lawson, William P., Fountain City, Tenn. Fastener for sliding doors. No. 1,361,594; Dec. 7; v. 281; p. 124.
Lawson, William S., Jr. (See Walker, Karl G., assignor.)
Lawton, Charles L., Hancock, Mich. Testing device for golf-clubs. No. 1,351,768; Sept. 7; v. 278; p. 10.
Lawton, Frederick H., assignor to M. G. Bowser, Grand Rapids, Mich. Vehicle spring construction. No. 1,362,254; Dec. 14; v. 281; p. 301.
Lay, Charles H., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. No. 1,356,553; Oct. 26; v. 279; p. 553.
Lay, Charles H., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Apparatus for the control of railway-switches. No. 1,359,512; Nov. 23; v. 280; p. 602.
Lay, Oscar H., Anchorage, Alaska. Combination-tool. No. 1,331,204; Feb. 17; v. 271; p. 448.
Lay, William P., Gadsden, Ala. Marine vessel. No. 1,350,259; Aug. 17; v. 277; p. 539.
Laycock, Arthur M., Kingston, Pa. Roller-bearing. No. 1,338,939; May 4; v. 274; p. 53.
Laycock, Arthur M., Kingston, Pa. Axle construction. No. 1,342,634; June 8; v. 275; p. 252.
Laycock, Harry A., Schenectady, N. Y., assignor to General Electric Company. Speed-regulator. No. 1,334,868; Mar. 23; v. 272; p. 668.
Laycook, John F., Huntingdon, Tenn. Current-motor. No. 1,332,299; Mar. 2; v. 272; p. 24.
Laydon, John, Brooklyn, N. Y. Guard for gas-stove cocks. No. 1,352,287; Sept. 7; v. 278; p. 110.
Layeux, Esery, assignor of one-half to F. J. Kerner, Minneapolis, Minn. Side-door structure for cars. No. 1,332,989; Mar. 9; v. 272; p. 207.
Layman, Hebron B., assignor to The Layman Pressed Rod Company, Inc., New York, N. Y. Connecting-rod. No. 1,340,171; May 18; v. 274; p. 479.
Layman, Hebron B., assignor to The Layman Pressed Rod Company, Inc., New York, N. Y. Connecting-rod. No. 1,340,172; May 18; v. 274; p. 419.
Layman, Hebron B., assignor to The Layman Pressed Rod Company, Inc., New York, N. Y. Connecting-rod. No. 1,340,173; May 18; v. 274; p. 419.
Layman, James C., Devilsfork, W. Va. Wire-winding device. No. 1,340,064; May 11; v. 274; p. 340.
Layman, Kent E., Cleveland, Ohio. Self-filling grease-gun. No. 1,338,743; May 4; v. 274; p. 18.
Layman Pressed Rod Company, The. (See Layman, Hebron B., assignor.)
Layne & Bowler Company. (See Layne, Lloyd F., assignor.)
Layne, Lloyd F., Houston, Tex., assignor to Layne & Bowler Company. Well-screen. No. 1,335,975; Apr. 6; v. 273; p. 51.
Layne, Mahlon E., Memphis, Tenn. Well-screen. No. 1,328,438; Jan. 20; v. 270; p. 390.
Layne, Mahlon E., Memphis, Tenn. Well-screen. No. 1,339,898; May 11; v. 274; p. 309.
Layne, Mahlon E., Los Angeles, Calif. Packer. No. 1,360,540; Nov. 30; v. 280; p. 873.
Layne, Ollyn A., Los Angeles, Calif. Impact device. No. 1,328,569; Jan. 20; v. 270; p. 415.
Layng, John F., Schenectady, N. Y., assignor to General Electric Company. Automatic decelerating device. No. 1,347,784; July 27; v. 276; p. 663.
Layng, Truman T., Winnipeg, Manitoba, Canada. Closure for containers. No. 1,361,388; Dec. 7; v. 281; p. 81.
Layton, James W., Springfield, Ill. Oil kit. No. 1,353,920; Sept. 28; v. 278; p. 571.
Lazar, William T., Appleton, Wis. Dispensing-container. No. 1,331,112; Feb. 17; v. 271; p. 431.
Lazarides, Platon, New York, N. Y. Eraser-holding clip for pencils. No. 1,339,707; May 11; v. 274; p. 274.
Lazarus, Willis H., assignor to S. Pfeiffer Manufacturing Company, St. Louis, Mo. Can or container. No. 1,328,881; Jan. 27; v. 270; p. 508.
Lazerson, Abraham, assignor to Solar Illuminating Co., Chicago, Ill. Lighting-fixture. No. 1,351,255; Aug. 31; v. 277; p. 841.
Lea, Aaron V., assignor of one-half to J. Lea, Bisbee, Ariz. Egg-carrier. No. 1,343,629; June 15; v. 275; p. 512.
Lea, Charles. (See Hathaway, E. F., and Lea.)
Lea, Charles, Boston, Mass., assignor, by mesne assignments, to McCleary, Wallin and Crouse, Amsterdam, N. Y. Mechanism for and process of constructing chenille. No. 1,328,570; Jan. 20; v. 270; p. 416.
Lea, Charles, Boston, Mass., assignor, by mesne assignments, to Barber-Colman Company, Rockford, Ill. Knotter. No. 1,354,668; Oct. 5; v. 279; p. 45.
Lea, Charles, Boston, Mass, assignor to Eveready Mfg. Company of Boston. Stapling-machine. No. 1,356,927; Oct. 26; v. 279; p. 626.
Lea, Charles, assignor to American Warp Drawing Machine Company, Boston, Mass. Tube-frame for looms. No. 1,329,302; Jan. 27; v. 270; p. 581.
Lea, Charles, assignor to American Warp Drawing Machine Company, Boston, Mass. Tube-frame. No. 1,329,303; Jan. 27; v. 270; p. 581.
Lea, Charles, assignor to American Warp Drawing Machine Company, Boston, Mass. Spacing-clamps for warp-threads and other purposes. No. 1,346,498; July 13; v. 276; p. 293.
Lea, Charles, Dorchester, assignor to A. Terkelsen, Newton Highlands, and C. J. Wennberg, East Milton, Mass. Expansion-chuck. No. 1,335,714; Mar. 30; v. 272; p. 886.
Lea, Frank D., Findlay, Ohio. Piano-lifting truck. No. 1,328,634; Jan. 20; v. 270; p. 427.
Lea, Frederick M., Birmingham, England. Heating-stove burning gas or the like. No. 1,351,525; Aug. 31; v. 277; p. 896.
Lea, Joseph. (See Lea, Aaron V., assignor.)
Leach, Basil W., Golconda, Nev. Rotary toothbrush. No. 1,341,916; June 1; v. 275; p. 59.
Leach, Corey, Capac, Mich. Clutch-control lever. No. 1,341,566; May 25; v. 274; p. 756.
Leach, Frank, Detroit, Mich. Soap-holder. No. 1,328,528; Jan. 20; v. 270; p. 408.
Leach, Glen R., Cleveland, Ohio. Door-operating mechanism. No. 1,338,379; Apr. 27; v. 273; p. 711.
Leach, Glen R., Lakewood, Ohio. Operating and control mechanism for doors and the like. No. 1,358,859; Nov. 16; v. 280; p. 430.
Leach, Mark, assignor to Liberty Milker Company, Owatonna, Minn. Milker-chamber. No. 1,332,346; Mar. 2; v. 272; p. 32.
Leach, Martin A., Los Angeles, Calif. Attachment for automobiles. No. 1,337,522; Apr. 20; v. 273; p. 479.
Leach, Vivian A., San Francisco, Calif. Valve for inner-tube valve-stems. No. 1,335,976; Apr. 6; v. 273; p. 52.
Leach, William F., Childress, Tex. Shade-roller and curtain-pole bracket. No. 1,329,249; Jan. 27; v. 270; p. 572.
Leach, William F., Childress, Tex. Rolling screen. No. 1,354,313; Sept. 28; v. 278; p. 652.
Leach, William L., Brownwood, Tex. Detachable fastener for cylindrical screens. No. 1,347,341; July 20; v. 276; p. 518.
Leachman, Edward C., assignor to Pearl Pictorial (Foreign and Colonial) Ltd., London, England. Picture-display apparatus. No. 1,357,783; Nov. 2; v. 280; p. 111.
Leager, Ira T., Ridgely, Md. Shock-absorber. No. 1,356,533; Oct. 26; v. 279; p. 549.
League, Edwin W., Plymouth, Ind. Trousers-supporter. No. 1,331,654; Feb. 24; v. 271; p. 553.
Leahy, Bernard, Bridgeport, Conn. Trunk-harness. No. 1,327,680; Jan. 13; v. 270; p. 211.
Leahy, Daniel J. (See Culleton, R. A., and Leahy.)
Leahy, Dora A., administratrix. (See Townley, W. R., and Leahy.)
Leahy, Patrick H. (See Townley, W. R., and Leahy.)
Leahy, William P., Canton, Ohio, assignor, by mesne assignments, of one-half to S. S. Kurtz, Sr. Compression-coupling. No. 1,327,106; Jan. 6; v. 270; p. 43.

Digitized by Google

Leak, Virgil T., and I. J. Thomas, Cocoanut Grove, Fla. Head-covering for protection against insects. No. 1,359,393; Nov. 16; v. 280; p. 533.
Leake, Edgar A., Lawrence, Mass. Polishing composition. No. 1,356,075; Oct. 19; v. 279; p. 412.
Leake, Richard C., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Railway signaling system. No. 1,330,125; Feb. 10; v. 271; p. 178.
Leake, Richard C., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Relay. No. 1,344,699; June 29; v. 275; p. 852.
Leake, Richard C., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Electric train-reporting mechanism. No. 1,355,054; Oct. 5; v. 279; p. 120.
Leake, Richard C., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Signal-indicating and train-reporting answer-back system. No. 1,355,055; Oct. 5; v. 279; p. 120.
Leake, Richard C., Rochester, N. Y., assignor to General Railway Signal Company, Gates, N. Y. Answer-back mechanism. No. 1,363,796; Dec. 28; v. 281; p. 692.
Leaming, Thomas H., and T. M. Susemihl, Buffalo, assignors to National Aniline & Chemical Company, Inc., New York, N. Y. Disazo dye. No. 1,363,886; Dec. 28; v. 281; p. 710.
Lean, Roderick, Manufacturing Company. (See Warne, Frederick C., assignor.)
Lear, Archie J., Rago, Kans. Pedal-holder. No. 1,350,228; Aug. 17; v. 277; p. 533.
Lear, George M., New Orleans, La. Food-heater. No. 1,357,100; Oct. 26; v. 279; p. 660.
Learmonth, William T., Portage, Wis. Jack. No. 1,347,862; July 27; v. 276; p. 679.
Leatherman, Robert L., and F. Pfrogner, Mount Pleasant, Pa. Combination desk and chair. No. 1,328,169; Jan. 13; v. 270; p. 303.
Leatherow, Walter J. (See Dodge and Leatherow.)
Leathers, Ward G., Haworth, N. J., assignor to Submarine Arms Corporation, New York, N. Y. Power generation. No. 1,349,969; Aug. 17; v. 277; p. 483.
Leathers, Ward G., Haworth, N. J., assignor to Submarine Arms Corporation, New York, N. Y. Submarine power generation. No. 1,359,513; Nov. 23; v. 280; p. 602.
Leavell, Charles, *et al.* (See Scholes, Edmond P., assignor.)
Leaver, James M., Jr., Oakland, Calif. Intermittent and oscillatory rotary cut-off saw-machine. No. 1,359,394; Nov. 16; v. 280; p. 533.
Leavitt, Benjamin F., assignor to The Leavitt Diving Armor Company, Toledo, Ohio. Diving apparatus. No. 1,327,679; Jan. 13; v. 270; p. 211.
Leavitt Diving Armor Company, The. (See Leavitt, Benjamin F., assignor.)
Leavitt, William C., Norway, Me. Handle for metallic vessels. No. 1,350,659; Aug. 24; v. 277. p. 664.
Leavitt, William H., Wichita Falls, Tex. Binding attachment for baling-presses. No. 1,348,180; Aug. 3; v. 277; p. 9.
Le Baron, Leonard, and A. C. Harrell, Pensacola, Fla. Automatic air and steam hose coupling. No. 1,359,395; Nov. 16; v. 280; p. 533.
Lebau, Louis, Pittsburgh, Pa. Gas-heater. No. 1,342,121; June 1; v. 275; p. 100.
Lebby, States L., Charleston, S. C. No-glare headlight. No. 1,327,563; Jan. 6; v. 270; p. 128.
Lebherz, Harry J., Frederick, Md. Bottle-capper. No. 1,356,161; Oct. 19; v. 279; p. 430.
Leblanc, Maurice, Val-sur-Seine, par Croissy, France, assignor to Ste. Anonyme pour l'Exploitation des Procédés Westinghouse Leblanc, Paris, France. Two-stroke and double-acting motor. No. 1,354,571; Oct. 5; v. 279; p. 25.
Le Blond R. K., Machine Tool Company, The. (See Groene, William F., assignor.)
Le Blond, R. K., Machine Tool Company, The. (See Groene, William F., and Hoelscher, assignors.)
Leblond, Richard K. (See Loder, Charles C., assignor.)
Leboucher, Paul, Paris, France. Means for measuring angular displacements. No. 1,331,069; Feb. 17; v. 271; p. 424.
Lebourg, Pierre, Philadelphia, Pa. Siphon-lubricator. No. 1,360,418; Nov. 30; v. 280; p. 848.
Lebourveau, Ulric J., and A. M. Taylor, Stamford, Conn., assignors to Atlas Powder Company, Philadelphia, Pa. Recovering volatile solvents. No. 1,355,401; Oct. 12; v. 279; p. 241.
Lebourveau, Ulric J., and A. M. Taylor, Stamford, Conn., assignors to Atlas Powder Company, Philadelphia, Pa. Recovering volatile solvents. No. 1,355,402; Oct. 12; v. 297; p. 241.
Lebovici, Justin, Oakley, Ohio, assignor to The Triumph Electric Company. Power-transmitting apparatus. No. 1,329,780; Feb. 3; v. 271; p. 81.
Le Bras, Louis, New York, N. Y. Pressure-regulator. No. 1,352,288; Sept. 7; v. 278; p. 110.
Le Cerf, Joseph E., Raymond, Wash., assignor of one-half to A. C. King, San Diego, Calif. Receptacle. No. 1,339,899; May 11; v. 274; p. 310.
Lechleiter, Peter F., Chicago, Ill. Buttonhole attachment for sewing-machines. No. 1,331,070; Feb. 17; v. 271; p. 424.
Lechner, Matthew, New York, N. Y. Electric storage battery. No. 1,359,259; Nov. 16; v. 280; p. 506.
Lechnyr, Albert, Minneapolis, Minn. Wrench. No. 1,363,740; Dec. 28; v. 281; p. 681.
Le Chot, Charles C., Akron, Ohio. Ratchet socket-wrench. No. 1,328,087; Jan. 13; v. 270; p. 287.
Lechtenberg, Leo F., Quincy, Ill., assignor, by mesne assignments, to Rowsey Gasoline Process Company, Humboldt, Kans. Tube-scraping apparatus. No. 1,343,215; June 15; v. 275; p. 432.
Leck, John, Santa Ana, Calif. Harvester for beans and the like. No. 1,345,936; July 6; v. 276; p. 120.
Le Clair, Frank J., Attleboro, assignor to Freeman-Daughaday Co., Chartley, Mass. Collar-holder. No. 1,349,071; Aug. 10; v. 277; p. 234.
Le Claire, Charles R. (See Chadwick, Lees W., assignor.)
Lecocq, Eugéne, assignor to Societe Generale de Fours À coke, systemes Lecocq, (Societe anonyme,) Brussels, Belgium. Device for reversing gaseous currents in ovens. No. 1,361,595; Dec. 7; v. 281; p. 125.
Le Cocq, Gaston L. Châteauneuf-sur-Loire, France. Hangar for dirigibles. No. 1,347,815; July 27; v. 276; p. 669.
Lecoutre, Auguste J., assignor to Royal Worcester Corset Co., Worcester, Mass. Corset-steel. (Reissue.) No. 14,892; June 22; v. 275; p. 771.
Le Craw, John W. (See Cazel, C. E., and Le Craw.)
Lécuyer, Maurice, Villers-Cotterets, France. Flying-machine. No. 1,332,129; Feb. 24; v. 271; p. 642.
Ledbetter, Ralph W., Anniston, Ala. Gravity-latching hasp. No. 1,362,167; Dec. 14; v. 281; p. 284.
Lederer, Friedrich, Milwaukee, Wis., assignor to Necedah Manufacturing Company. Rim-spreader. No. 1,335,248; Mar. 30; v. 272; p. 798.
Lederer, Friedrich and J. B., Milwaukee, Wis., assignors to Necedah Manufacturing Company. Commutator. No. 1,362,015; Dec. 14; v. 281; p. 254.
Lederer, George C., Portland, Oreg. Folding support for automobile-beds. No. 1,360,961; Nov. 30; v. 280; p. 954.
Lederer, Irving R., Providence, R. I. Soft-collar holder. No. 1,360,650; Nov. 30; v. 280; p. 895.
Lederer, Joseph B. (See Lederer, Friedrich and J. B.)
Lederer Machine Company. (See Raddatz, Richard, assignor.)
Lederer, Richard F., New York, N. Y. Airship. No. 1,358,453; Nov. 9; v. 280; p. 305.
Lederer, Sigmund L., and G. U. Meyer, assignors to Providence Stock Company, Providence, R. I. Connector for band-bracelets. No. 1,350,508; Aug. 24; v. 277; p. 635.
Lederman, John E., Chicago, Ill., assignor, by mesne assignments, to J. Keller, Jr., Philadelphia, Pa. Recording and vending machine. No. 1,344,909; June 29; v. 275; p. 893.
Ledig, Richard G., assignor to A. Mecky Company, Philadelphia, Pa. Muffle. No. 1,358,220; Nov. 9; v. 280; p. 257.
Ledig, Richard G., and A. Papini, assignors to A. Mecky Company, Philadelphia, Pa. Electrolytic water-heater. No. 1,358,377; Nov. 9; v. 280; p. 289.
Ledoux, Hector, assignor to The Stafford Company, Readville, Boston, Mass. Selvage-forming device. No. 1,344,413; June 22; v. 275; p. 730.
Leduc, William, Toronto, Ontario, Canada. Stone-picker. No. 1,338,023; Apr. 27; v. 278; p. 644.
Ledwinka, Joseph, assignor to E. G. Budd Manufacturing Company, Philadelphia, Pa. Means for vulcanizing rubber tires. No. 1,348,228; Aug. 3; v. 277; p. 19.
Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Co., Philadelphia, Pa. Duplex rotary electric welding-machine. No. 1,351,717; Aug. 31; v. 277; p. 933.
Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Tool for applying upholstery clench-rivets. No. 1,361,340; Dec. 7; v. 281; p. 72.
Lee, Albert B., Minneapolis, Minn. Gage for paring-knives. No. 1,346,321; July 13; v. 276; p. 258.
Lee, Albert P., assignor to Lee Loader & Body Co., Chicago, Ill. Dumping-hopper. No. 1,334,913; Mar. 23; v. 272; p. 677.
Lee, Albert E., Yoker, Scotland, and E. G. Milsted, Epsom, England, assignors to The Singer Manufacturing Company, Elizabeth, N. J. Sewing-machine cabinet or casing. No. 1,342,820; June 8; v. 275; p. 290.
Lee, Albert H., Portland, Oreg. Tongs. No. 1,343,057; June 8; v. 275; p. 336.
Lee, Albert H., assignor to The Fuchs & Lang Manufacturing Company, New York, N. Y. Apparatus for covering printing-rolls. No. 1,355,481; Oct. 12; v. 279; p. 257.
Lee, Albert P., assignor to Lee Loader & Body Co., Chicago, Ill. Movable loading-hopper. No. 1,342,919; June 8; v. 275; p. 809.
Lee, Albert P., assignor to Lee Loader & Body Company, Chicago, Ill. Rail construction for rolling hoppers. No. 1,349,838; Aug. 17; v. 277; p. 458.
Lee, Alfred W., Tarrytown, N. Y. Folding universal table. No. 1,340,065; May 11; v. 274; p. 340.

Digitized by Google

Alphabctical list of patentees—Continued.

Lee, Bernard S., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Stamping-machine. No. 1,327,050; Jan. 6; v. 270; p. 38.
Lee, Bernard S., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Softening apparatus. No. 1,341,183; May 25; v. 274; p. 682.
Lee, Charles A., Oneida, assignor to W. L. Smith, Syracuse, N. Y. Adjustable chair. No. 1,335,379; Mar. 30; v. 272; p. 823.
Lee, Charles G. (See Wilson, C. H., and Lee.)
Lee, Charles H., Garwood, Mo. Paper-file. No. 1,339,768; May 11; v. 274; p. 285.
Lee, Charles L., Bridgeport, Conn., assignor to The National Cash Register Company, Dayton, Ohio. Setting mechanism. No. 1,338,230; Apr. 27; v. 273; p. 683.
Lee, Charles M., Falls City, Nebr. Centrifugal exhaust-fan. No. 1,329,668; Feb. 3; v. 271; p. 60.
Lee, Charles M., Falls City, Nebr. Fan, propeller, &c. No. 1,341,653; June 1; v. 275; p. 8.
Lee, Charles O., Modesto, Calif. Irrigation-tile. No. 1,350,229; Aug. 17; v. 277; p. 533.
Lee, Earle P., assignor to North East Electric Company, Rochester, N. Y. Testing-transformer. No. 1,330,271; Feb. 10; v. 271; p. 204.
Lee, Earle P., assignor to North East Electric Company, Rochester, N. Y. Commutator. No. 1,349,003; Aug. 10; v. 277; p. 221.
Lee, Elmer T., Waterbury, Conn. Roller-skate. No. 1,346,218; July 13; v. 276; p. 287.
Lee, Frank H., Elgin, Nebr. Toy aeroplane. No. 1,359,078; Nov. 16; v. 280; p. 472.
Lee, Frank W., Spokane, Wash. Potato-planter. No. 1,353,356; Sept. 21; v. 278; p. 415.
Lee, Fred, Coventry, England. Pivot. No. 1,331,113; Feb. 17; v. 271; p. 431.
Lee, Fred S., Vanlue, Ohio. Crank-shaft for internal-combustion engines. No. 1,349,893; Aug. 17; v. 277; p. 468.
Lee, George E., Company, The. (See Lee, George E., assignor.)
Lee, George E., assignor to The George E. Lee Company, Cleveland, Ohio. Thermostat. No. 1,338,024; Apr. 27; v. 273; p. 644.
Lee, George S., Seattle, Wash., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,357,573; Nov. 2; v. 280; p. 70.
Lee, Harry A., Kansas City, Mo. Valve-stem packing-cup. No. 1,344,347; June 22; v. 275; p. 718.
Lee, Henry J., London, England. Means for setting and locking vehicle steering-wheels. No. 1,362,016; Dec. 14; v. 281; p. 254.
Lee, Herman H., Brooklyn, N. Y. Leak-detector for vessels. No. 1,348,015; July 27; v. 276; p. 709.
Lee, Herman H., Brooklyn, N. Y. Automatic valve-controlling means. No. 1,348,016; July 27; v. 276; p. 709.
Lee, Ira, Suction Cleaner Corporation. (See Sheffler, Ira L., assignor.) (Reissue.)
Lee, John H. (See Eyles, Anton G., assignor.)
Lee, Leif, Youngstown, Ohio. Air-heating furnace. No. 1,362,579; Dec. 14; v. 281; p. 364.
Lee Loader & Body Co. (See Lee, Albert P., assignor.)
Lee, Mark. (See Knight, J. J., and Lee.)
Lee, Nixon, assignor, by mesne assignments, to National Seal Company, Inc., Brooklyn, N. Y. Latch. No. 1,346,129; July 13; v. 276; p. 220.
Lee, Oluf, Rolette, N. D. Combination-tool. No. 1,344,046; June 22; v. 275; p. 659.
Lee, Oscar. (See Brager, A., and Lee.)
Lee, Oscar G., and A. Zess, Washington, Pa. Electrical safety controlling system for mine-gages. No. 1,362,880; Dec. 21; v. 281; p. 474.
Lee, Ralph, Medicine Bow, Wyo. Wrench. No. 1,346,716; July 13; v. 276; p. 336.
Lee, Ralph R. (See Miller, C. P., and Lee.)
Lee, Richard, and C. A. Hiatt, assignors, of one-half to C. D. Hall, St. Louis, Mo. Stop-indicator. No. 1,345,937; July 6; v. 276; p. 121.
Lee, Richard V., Calistoga, Calif. Hydrocarbon-burner. No. 1,362,017; Dec. 14; v. 281; p. 255.
Lee, Robert C., assignor to A. Scrivenor, Richmond, Va. Work-holding stand. No. 1,341,809; June 1; v. 275; p. 39.
Lee, Shelley E., Oroville, Calif. Self-cleaning screen. No. 1,331,935; Feb. 24; v. 271; p. 606.
Lee Surgico-Dental M'f'g Co. (See Evslin, Leo E., assignor.)
Lee, Thomas F., New York, N. Y. Window-operating mechanism. No. 1,359,901; Nov. 23; v. 280; p. 679.
Lee, Thomas H., Bremerton, Wash. Pipe-boiler. No. 1,356,162; Oct. 19; v. 279; p. 430.
Lee, Thomas L., assignor to North East Electric Company, Rochester, N. Y. Electric connection. No. 1,334,040; Mar. 16; v. 272; p. 466.
Lee, Thomas L., assignor to North East Electric Company, Rochester, N. Y. Electric switch. No. 1,353,249; Sept. 21; v. 278; p. 394.
Lee, Ulysses G., Chicago, Ill. Screen for portholes and the like. No. 1,336,038; Apr. 6; v. 273; p. 63.
Lee, W. H. (See Loudenback, John W., assignor.)
Lee, Walter O., Detroit, Mich. Button. No. 1,336,243; Apr. 6; v. 273; p. 102.
Lee, William, New Bedford, Mass. Splice-bar. No. 1,328,170; Jan. 13; v. 270; p. 303.
Lee, William A., Muskogee, Okla. Automobile-signal. No. 1,345,863; July 6; v. 276; p. 105.
Lee, William H., assignor to Syracuse Chilled Plow Company, Syracuse, N. Y. Plow construction (detachable share.) No. 1,327,921; Jan. 13; v. 270; p. 256.
Lee, William J., Eugene, Oreg. Flytrap. No. 1,340,779; May 18; v. 274; p. 533.
Lee, William K. (See Renfro, Albert L., assignor.)
Lee, William S., Flint, Mich. Rocker-arm for valve-in-head motors. No. 1,362,709; Dec. 21; v. 281; p. 441.
Leech, Frank J., and W. H. Myers, Ottawa, Ill. Combined wagon and automobile dump. No. 1,335,585; Mar. 30; v. 272; p. 861.
Leech, Henry E., Live Oak, Fla. Strainer. No. 1,351,293; Aug. 31; v. 277; p. 849.
Leeding, Ernest J., and A. A. Remington, Birmingham, England. Detachable tread for wheels and means of fixing same. No. 1,343,784; June 15; v. 275; p. 543.
Leeds, Morris E., assignor to Leeds & Northrup Company, Philadelphia, Pa. System of automatic control. No. 1,332,182; Feb. 24; v. 271; p. 651.
Leeds & Northrop Company. (See Bash, Francis E., assignor).
Leeds & Northrup Company. (See Brewer, Henry, assignor.)
Leeds & Northrup Company. (See Leeds, Morris E., assignor.)
Leeds & Northrup Company. (See Smith, Irving B., assignor.)
Leedy, A. D. (See Vancil, William N., assignor.)
Leedy Manufacturing Company. (See Wanamaker, Charles B., assignor.)
Leeper, George M., Oakland, Oreg. Drier attachment for stoves. No. 1,352,071; Sept. 7; v. 278; p. 69.
Lees, Alfred, Bayonne, N. J. Dispensing device. No. 1,355,482; Oct. 12; v. 279; p. 257.
Lees-Bradner Company, The. (See Lees, Ernest J., assignor.)
Lees-Bradner Company, The. (See Schurr, C. H., and Lees, assignors.) (Reissue.)
Lees-Bradner Company, The. (See Schurr, Charles H., assignor.)
Lees, Edgar, assignor to The Whitehead Torpedo Works (Weymouth) Limited, Weymouth, England. Gyroscopic steering mechanism of automobile-torpedoes. No. 1,328,571; Jan. 20; v. 270; p. 416.
Lees, Edgar, and H. W. Ridsdale, assignors to The Whitehead Torpedo Works (Weymouth,) Limited, Weymouth, England. Automobile-torpedo. No. 1,351,526; Aug. 31; v. 277; p. 896.
Lees, Ernest J. (See Schurr, C. H., and Lees.) (Reissue.)
Lees, Ernest J., assignor to The Lees-Bradner Company, Cleveland, Ohio. Drill-machine. No. 1,339,461; May 11; v. 274; p. 226.
Lees, Joseph, West Bethlehem, Pa. Lawn-edge-trimming gage. No. 1,343,269; June 15; v. 275; p. 441.
Lees, Kenneth F., New Haven, Conn. Pneumatic-tire pressure-gage. No. 1,328,572; Jan. 20; v. 270; p. 416.
Lees, Thomas R. (See Wallace, J., and Lees.)
Leet, Edward A., New York, assignor to Mirrorphon Talking Machine Company, Inc., Brooklyn, N. Y. Phonograph-horn. No. 1,361,164; Dec. 7; v. 281; p. 36.
Leet, Grant. (See d'Albert, Henry T., assignor.)
Le Fauve, Ferdinand, Buffalo, N. Y. Lock-nut. No. 1,357,331; Nov. 2; v. 280; p. 26.
Lefax. (See Parker, John C., assignor.)
Le Febure Ledger Company. (See Heuska, Frank J., assignor.
Lefèbvre, Paul, assignor of one-half to Societe Anonyme Les Atellers Metallurgiques, Brussels, Belgium. Axle-box for adjustable locomotive axles. No. 1,354,112; Sept. 28; v. 278; p. 611.
Lefever, Charles F., assignor to Daisy Manufacturing Company, Plymouth, Mich. Lever-arm for guns. No. 1,358,959; Nov. 16; v. 280; p. 450.
Lefever, Charles F., assignor to Daisy Manufacturing Company, Plymouth, Mich. Liquid-gun. No. 1,363,475; Dec. 28; v. 281; p. 630.
Le Fevre, Franklin F., *et al.* (See Curtis, Jesse T., assignor.)
Le Fevre, George A., Richmond Hill, N. Y., and W. B. Hutchinson, Newark, N. J., assignors to Paxflat Barrel and Crate Corporation. Container. No. 1,341,060; May 25; v. 274; p. 658.
Le Fevre, George A., Richmond Hill, assignor to Paxfla' Barrel & Crate Corporation, New York, N. Y. Barrel No. 1,361,880; Dec. 14; v. 281; p. 227.
Lefkowitz, Joseph, assignor of one-half to T. F. Fahey Schenectady, N. Y. Trolley-wheel. No. 1,332,130; Feb 24; v. 271; p. 642.
Lefler, Charles M., Winston, Mont. Grain-weigher. No. 1,358,003; Nov. 9; v. 280; p. 215.
Lefranc, Eugène L., assignor to Societe Des Moteurs Gnome et Rhone, Paris, France. Drive for cam-shafts. No. 1,345,659; Mar. 23; v. 272; p. 627.
Le Francois, William, Pawtucket, R. I. Valve. No. 1,345,682; July 6; v. 276; p. 69.
Lefteruk, William, Gonor, Manitoba, Canada. Potato-peeler. No. 1,336,526; Apr. 13; v. 273; p. 214.
Legal, Leopold. (See Grumme, William F., assignor.)

Digitized by Google

Legal Level Light Co. (See Shannahan, Thomas B., assignor.)
Legalite Corporation, The. (See Holman, R. H., and Shenk, assignors.)
Le Gear, Harvey, Chicago, Ill. Clam-shell bucket. No. 1,342,996; June 8; v. 275; p. 325.
Leger, Oswald C., Los Angeles, Calif. Billiard-cue construction and attaching the cue-tip. No. 1,340,395; May 18; v. 274; p. 461.
Legg, Andrew C., Birmingham, Ala., assignor to Legg Meat Curing Company. Smoke-curing apparatus. No. 1,333,552; Mar. 9; v. 272; p. 313.
Legg Meat Curing Company. (See Legg, Andrew C., assignor.)
Legg, Thomas A., Lumberton, Miss. Flue-pan. No. 1,342,918; June 8; v. 275; p. 309.
Legg, Thomas A., Lumberton, Miss. Flue-pan. No. 1,362,947; Dec. 21; v. 281; p. 487.
Leggett, Clinton H., New York, N. Y. Advertising or amusement device. No. 1,346,219; July 13; v. 276; p. 287.
Leggett, Ross M. (See Niece, F. G., and Leggett.)
Leggett, Ross M., Akron, Ohio, assignor to Ozone Company of America, Milwaukee, Wis. Removing phenol and other aromatic hydrocarbons from water or other liquids. No. 1,341,913; June 1; v. 275; p. 59.
Le Grande, Nicholas J., Goodwin, Ark. Valve-gear for internal-combustion engines. No. 1,345,094; June 29; v. 275; p. 927.
Legrandeur, Joseph A., Toronto, Ontario, Canada. Jeweler's pin-pointer. No. 1,347,547; July 27; v. 276; p. 615.
Legros, Gaspard, Lawrence, Mass. Airship construction. No. 1,357,502; Nov. 2; v. 280; p. 56.
Lehigh, Dan H., assignor to H. J. Richer, Chicago, Ill. Micrometer and height gage. No. 1,335,004; Mar. 30; v. 272; p. 753.
Lehman, Charles J., Jr., Philadelphia, Pa. Universal soldering-cup. No. 1,359,260; Nov. 16; v. 280; p. 506.
Lehman, Jay E., Canton, Ohio. Gasolene-motor. No. 1,332,265; Mar. 2; v. 272; p. 17.
Lehman, Joseph H., New York, N. Y. Moving-picture shutter. No. 1,335,744; Apr. 6; v. 273; p. 8.
Lehman, Joseph H., New York, N. Y. Shutter for moving-picture machines. No. 1,349,214; Aug. 10; v. 277; p. 262.
Lehman, Joseph H., New York, N. Y. Shutter for moving-picture machines. No. 1,349,215; Aug. 10; v. 277; p. 262.
Lehmann, Ferdinand A., Omaha, Nebr. Ladder attachment. No. 1,346,831; July 20; v. 276; p. 417.
Lehmann, Gotthilf, New York, N. Y. Toy. No. 1,350,103; Aug. 17; v. 277; p. 509.
Lehmann, Karl A. A., Biel, and C. Schindler, Pfäfers, Switzerland. Machine for stamping workmen's individual cards. No. 1,328,840; Jan. 27; v. 270; p. 495.
Lehner, John, Pittsburgh, Pa. Suction mechanism for dental plates. No. 1,352,614; Sept. 14; v. 278; p. 209.
Lehnhoff, Rudolph, Burnham, Ill. Wrench. No. 1,348,366; Aug. 3; v. 277; p. 47.
Lehoczky, Alex., Detroit, Mich. Non-skid tire-armor. No. 1,355,056; Oct. 5; v. 279; p. 121.
Lehr, Frank J., assignor to Stecher Lithographic Company, Rochester, N. Y. Printing-press. No. 1,351,175; Aug. 31; v. 277; p. 825.
Lehr, George C., St. Louis, Mo. Vehicle-tire. No. 1,353,921; Sept. 28; v. 278; p. 572.
Lehr, Nicholas P., Fremont, Ohio. Clod crusher and packer. No. 1,328,171; Jan. 13; v. 270; p. 303.
Lehrack, Frederick W., assignor of five-eighths to Feeders Supply Company, Kansas City, Mo. Grinding and pulverizing machine. No. 1,362,948; Dec. 21; v. 281; p. 487.
Leibner, Albert E., New York, N. Y. Ash-tray. No. 1,355,750; Oct. 12; v. 279; p. 308.
Leibowitz, Adolph M. (See Hunsinger, John, Sr., assignor.)
Leibundgut, Adolph. (See Reinhardt, C., and Leibundgut.)
Leich, Arthur, *et al.* (See Downey, Richard F., assignor.)
Leich Electric Company. (See Leich, Oscar M., assignor.)
Leich, Oscar M., assignor to Leich Electric Company, Genoa, Ill. Vibratory converter. No. 1,338,380; Apr. 27; v. 273; p. 711.
Leich, Oscar M., assignor to Leich Electric Company, Genoa, Ill. Spark-plug. No. 1,348,886; Aug. 10; v. 277; p. 198.
Leidich, Christian E. (See Leiditch, Peter C., assignor.)
Leidich, Peter C., assignor of one thirty-ninth to C. E. Leidich, Philadelphia, Pa. Power plant for vehicles. No. 1,360,122; Nov. 23; v. 280; p. 723.
Leifer, Charles E., Little Rock, Ark. Lock. No. 1,345,787; July 6; v. 276; p. 90.
Leigh, Edna F. (See Leigh, Richard A., assignor.)
Leigh, John S., Cincinnati, Ohio. Oil-refiner. No. 1,339,760; May 11; v. 274; p. 285.
Leigh, Richard A., assignor to Edna F. Leigh, Denver, Colo. Pneumatic or compressed-air cushion bed. No. 1,351,480; Aug. 31; v. 277; p. 887.
Leigh, Townes R., Georgetown, Ky., assignor to Submarine Signal Company, Portland, Me. Producing fog-screens. No. 1,358,084; Nov. 9; v. 280; p. 231.
Leighton, Albert, New York, N. Y. Buckle. No. 1,332,628; Mar. 2; v. 272; p. 87.
Leighty, William J., Chicago, Ill. Cutting device. No. No. 1,327,715; Jan. 13; v. 270; p. 217.
Leiman, Gustave A., New York, N. Y. Machine for making hollow glass bodies. No. 1,342,821; June 8; v. 275; p. 290.
Leiman, Henry, Tampa, Fla. Knockdown box. No. 1,363,984; Dec. 28; v. 281; p. 728.
Leimbach, Lizzie T. (See Harrah, Hillis A., assignor.)
Leins, Arthur, *et al.* (See Leins, Karl, assignor.)
Leins, Karl, assignor of one-third to A. Leins, and one-third to F. Reuther, New York, N. Y. Garter. No. 1,353,483; Sept. 21; v. 278; p. 440.
Leinweber, Curtis H., *et al.*, executors. (See Leinweber, Frederick H.)
Leinweber, Frederick H., deceased, Chicago, Ill.; C. H. Leinweber, W. H. Leinweber, and V. H. Leinweber, executors. Internal-combustion engine. No. 1,342,553; June 8; v. 275; p. 237.
Leinweber, Frederick H., deceased, Chicago, Ill.; C. H. Leinweber, W. H. Leinweber, and V. H. Leinweber executors. Internal-combustion engine. No. 1,344,641; June 29; v. 275; p. 841.
Leinweber, Mary C., Weimar, Tex. Horseshoe. No. 1,351,760; Sept. 7; v. 278; p. 10.
Leinweber, Victor H., *et al.*, executors. (See Leinweber, Frederick H.)
Leinweber, Victor H., assignor to Continental Air Craft & Transportation Company, Chicago, Ill. Propeller-blade. No. 1,344,640; June 29; v. 275; p. 841.
Leinweber, William H., *et al.*, executors. (See Leinweber, Frederick H.)
Leipert, August H., Brooklyn, assignor to International Motor Company, New York, N. Y. Pressed-steel transmission-case. No. 1,327,681; Jan. 13; v. 270; p. 211.
Leipert, August H., Brooklyn, and A. G. Herreshoff, New York, N. Y., assignors to International Motor Company, New York, N. Y. Gearing. No. 1,342,175; June 1; v. 275; p. 111.
Leipold, John, Clara City, Minn. Rodless end-gate. No. 1,329,981; Feb. 3; v. 271; p. 119.
Leisen, Francis J., Metuchen, N. J., and E. S. Dunn, Huntington, W. Va. Tunnel-kiln. No. 1,345,605; July 6; v. 276; p. 54.
Leist, William C., and C. Wagner, Wauseon, Ohio. Oil-burner. No. 1,354,314; Sept. 28; v. 278; p. 652.
Leister, William W. (See Seas, William J., assignor.)
Leistmann, Alfred, Brooklyn, N. Y. Gas-heater. No. 1,346,456; July 13; v. 276; p. 284.
Leitch, Frank, Detroit, Mich. Flower-pot support. No. 1,343,568; June 15; v. 275; p. 500.
Leitch, John W., Huddersfield, England. Apparatus for solidifying or concentrating materials. No. 1,343,833; June 15; v. 275; p. 553.
Leitch, Meredith, Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Opening means for centrifugal bowls. No. 1,343,325; June 15; v. 275; p. 452.
Leitch, Meredith, Poughkeepsie, N. Y., assignor to The De Laval Separator Company. Cleaning gasolene. No. 1,351,047; Aug. 31; v. 277; p. 801.
Leitch, Meredith, Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Yieldable bearing for centrifugal machines. No. 1,352,204; Sept. 7; v. 278; p. 94.
Leitch, Meredith, assignor to The De Laval Separator Company, Poughkeepsie, N. Y. Ring-inserter for milking machine teat-cups. No. 1,363,522; Dec. 28; v. 281; p. 639.
Leitch, William A., Sarles, N. D. Internal-combustion engine. No. 1,334,619; Mar. 23; v. 272; p. 619.
Leiter, Willis A., Springfield, Ohio. Holder for photographic films. No. 1,361,767; Dec. 7; v. 281; p. 157.
Leites, Frank, San Francisco, Calif. Necktie-form. No. 1,356,928; Oct. 26; v. 279; p. 627.
Leith, Alexander B., Chicago, Ill. Perambulator. No. 1,347,169; July 20; v. 276; p. 484.
Leithner, Henry, San Francisco, Calif. Auxiliary air-valve. No. 1,359,079; Nov. 16; v. 280; p. 472.
Leitner, Emil, Hoboken, N. J., assignor to Powers Photo Engraving Company, New York, N. Y. Making printing-plates. No. 1,329,088; Jan. 27; v. 270; p. 541.
Leitner, Henry, Westminster, London, England. Screw-propeller. No. 1,328,004; Jan. 13; v. 270; p. 271.
Leitner, Henry, Westminster, London, England. Screw-propeller. No. 1,328,005; Jan. 13; v. 270; p. 271.
Leitner, Henry, Westminster, London, and W. H. Exley, Harehills, Leeds, England. Manufacture of electric accumulators. No. 1,327,336; Jan. 6; v. 270; p. 85.
Leitner, Henry, London, and W. H. Exley, Pontefract, England. Manufacture of electric accumulators. No. 1,329,125; Jan. 27; v. 270; p. 549.
Leja, Jozef, Fallentimber, Pa. Coin-assorting apparatus. No. 1,346,457; July 13; v. 276; p. 285.
Le Jeune, Charles A., Burton, La. Water-automobile. No. 1,341,375; May 25; v. 274; p. 719.
Lektophone Corporation. (See Joss, Frederick E., assignor.)

Digitized by Google

Leland, Albert B., R. B. Benjamin, and G. A. Sellar, assignors to Benjamin-Sellar Manufacturing Company, Chicago, Ill. Toy mold. No. 1,330,197; Feb. 10; v. 271; p. 191.

Leland, Floyd L., Flint, Mich. Vacuum-cleaner. No. 1,352,529; Sept. 14; v. 278; p. 191.

Leland Lock Company. (See Stanley, Theodore D., assignor.)

Lelean, Percy S., Westminster, London, England. Disinfecting and destruction of vermin in clothes, bedding, and the like. No. 1,352,289; Sept. 7; v. 278; p. 110.

Lemay, Henry A., Brooklyn, N. Y. Splicing-machine. No. 1,345,375; July 6; v. 276; p. 10.

Lembas, George. (See Ormaniec, J., and Lembas.)

Lemberg, Leon, Brooklyn, N. Y. Toilet-seat. No. 1,354,496; Oct. 5; v. 279; p. 10.

Le Mesurier, Louis J., assignor of one-half to Sir W. G. Armstrong Whitworth & Company, Limited, Newcastle-upon-Tyne, England. Airplane-launching apparatus. No. 1,347,105; July 20; v. 276; p. 471.

Lemieux, Peter E. (See McLean, Charles D., assignor.)

Lemieux, Thomas D., Lakewood, Ohio. Cable-pulling device. No. 1,328,678; Jan. 20; v. 270; p. 435.

Lemieux, Thomas D., Lakewood, Ohio. Combined cylinder-head. No. 1,343,678; June 15; v. 275; p. 522.

Lemily, John B., Brooklyn, N. Y. Clothes-cabinet. No. 1,326,940; Jan. 6; v. 270; p. 11.

Leming, Frank, Hingham, Mass. Adjustable dust-cap for valve-stems. No. 1,329,126; Jan. 27; v. 270; p. 549.

Leming, Frank, Hingham, Mass. Machine for reforming ammunition shell-casings. No. 1,351,389; Aug. 31; v. 277; p. 869.

Lemire, Joseph, Drummondville, assignor of one-half to J. A. H. Hebert, Montreal, Quebec, Canada. Aerial navigation. No. 1,356,534; Oct. 26; v. 279; p. 549.

Lemke, August C., and L. L. Almeter, Wabasha, Minn. Wire stretcher and winder. No. 1,337,142; Apr. 13; v. 273; p. 333.

Lemle, William, Chicago, Ill. Theater-curtain-operating mechanism. No. 1,340,066; May 11; v. 274; p. 341.

Lemmer, Orvil G., Seattle, Wash. Trunk. No. 1,363,134; Dec. 21; v. 281; p. 524.

Lemmer, Robert, Minneapolis, Minn. Mail delivery and receiving device. No. 1,362,805; Dec. 21; v. 281; p. 461.

Lemmon, Walter S., New York, N. Y. Resonant converter. No. 1,340,963; May 25; v. 274; p. 639.

Lemoine, David, and G. P. Fournier, Whitinsville, Mass. Spindle. No. 1,336,467; Apr. 13; v. 273; p. 203.

Lemoine, Jules L., Paris, France. Smooth-band conveyer or elevator. No. 1,342,684; June 8; v. 275; p. 262.

Lemoine, Louis R., Philadelphia, Pa. assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J. Gas-burner for pipe-molds. No. 1,351,770; Sept. 7; v. 278; p. 11.

Lemon, Robert L., assignor to The Van Camp Packing Co., Indianapolis, Ind. Packing-box. No. 1,346,661; July 13; v. 276; p. 325.

Lemons, James H., assignor to J. S. Adams, Cedar Hill, Tenn. Powder-gun. No. 1,330,763; Feb. 10; v. 271; p. 296.

Lemp, Hermann, Erie, Pa., assignor to General Electric Company. Internal-combustion engine. No. 1,334,104; Mar. 16; v. 272; p. 477.

Lemp, William J. (See Koedding, W., and Lemp.)

Lempges, Theodore G., Dunkirk, N. Y. Signal device. No. 1,349,774; Aug. 17; v. 277; p. 446.

Lenchard, Walter, McKeesport, Pa. Toy doll. No. 1,350,660; Aug. 24; v. 277; p. 664.

Lenchard, Walter, McKeesport, Pa. Toy pin-board. No. 1,352,137; Sept. 7; v. 278; p. 82.

Lenchard, Walter, McKeesport, Pa. Toy shooting-gallery. No. 1,355,765; Oct. 12; v. 279; p. 311.

Lenerville, Clifford H., Peshtigo, Wis. Automatic phonograph-stop. No. 1,349,970; Aug. 17; v. 277; p. 483.

Lengel, Irvin D., and S. S. Shears, Reading, Pa.; said Lengel assignor to said Shears. Vehicle-spring. No. 1,336,468; Apr. 13; v. 273; p. 204.

Lenhart, Charles, New York, N. Y. Extension-slide for cabinet-drawers. No. 1,343,513; June 15; v. 275; p. 488.

Lenholt, John E., Leete Island, assignor of one-half to C. R. Tainter, Guilford, Conn. Pipe-wrench. No. 1,328,744; Jan. 20; v. 270; p. 447.

Lenholt, John E., assignor of one-half to C. R. Tainter, Guilford, Conn. Wrench. No. 1,352,461; Sept. 14; v. 278; p. 179.

Lennon, William, Manitou, Colo. Vaporizer for internal-combustion engines. No. 1,341,141; May 25; v. 274; p. 673.

Lennox, Andrew. (See Irvin, K., and Lennox.)

Lenser, Ferdinand, Cincinnati, Ohio. Device adapting passenger-automobiles to commercial-truck use. No. 1,360,419; Nov. 30; v. 280; p. 848.

Lent, Orlando D., Peekskill, N. Y. Harrow. No. 1,327,337; Jan. 6; v. 270; p. 85.

Leat, Wilmar F., New Haven, Conn., assignor to The Greist Manufacturing Company. Grease-cup. No. No. 1,328,573; Jan. 20; v. 270; p. 416.

Lent, Wilmar F., New York, N. Y., assignor to The Cutler-Hammer M'f'g Co., Milwaukee, Wis. Motor-controller. No. 1,347,863; July 27; v. 276; p. 679.

Lentatz, Ambrose, West Hoboken, N. J. Collar-button. No. 1,352,754; Sept. 14; v. 278; p. 238.

Lenti, Mario, Milan, Italy. Gage. No. 1,329,911; Feb. 3; v. 271; p. 106.

Lents, John M., Evansville, Ind., assignor to The Owens Bottle Machine Company, Toledo, Ohio. Apparatus for transferring charges of molten glass. No. 1,331,512; Feb. 24; v. 271; p. 526.

Lentz, Hardy B., Salisbury, N. C. Display device. No. 1,357,879; Nov. 2; v. 280; p. 129.

Lents, Harry A., Washington, D. C. Emergency repair-link. No. 1,332,559; Mar. 2; v. 272; p. 74.

Lenz, Ernst H. (See Bell, H., and Lenz.)

Lenz, Thomas, Lidgerwood, N. D. Combined bed-making and bedclothes-airing device. No. 1,363,046; Dec. 21; v. 281; p. 507.

Lenzi, Dwight, Idaho Falls, Idaho. Apparatus for drying food. No. 1,339,032; May 4; v. 274; p. 71.

Leo, Isaac L. (See Normandy, Isaac, assignor.)

Leon, Elmer G., Hubbleton, Wis. Automatic safe-closer. No. 1,348,017; July 27; v. 276; p. 709.

Leon, Kalman, Washington, D. C. Fishhook. No. 1,340,780; May 18; v. 274; p. 533.

Leonard, Caswell L., Corinth, Miss. Bread-slicing board. No. 1,345,376; July 6; v. 276; p. 10.

Leonard, Charles L., and A. F. Howard, Ionia, Mich. Beet-topping means. No. 1,353,408; Sept. 21; v. 278; p. 425.

Leonard, Chester S. (See Moore, G. R., and Leonard.)

Leonard, Chester S., Lansdowne, and R. H. and R. J. Beck, Philadelphia, Pa. Engine. No. 1,338,311; Apr. 27; v. 273; p. 698.

Leonard, Earl W., Victoria, La. Fire-escape. No. 1,358,564; Nov. 9; v. 280; p. 327.

Leonard, Elof R., Woodcliff, N. J. Fireproof door. No. 1,339,205; May 4; v. 274; p. 103.

Leonard, Elof R., Woodcliff, N. J. Fireproof partition. No. 1,339,360; May 4; v. 274; p. 131.

Leonard, Elof R., Woodcliff, N. J. Metal frame for doors and the like. No. 1,363,887; Dec. 28; v. 281; p. 710.

Leonard, George I., and C. A. Parks, Chicago, Ill. System of steam-boiler feed-water injection. No. 1,335,170; Mar. 30; v. 272; p. 785.

Leonard, George S., Minneapolis, Minn., assignor to Huntley Manufacturing Company, Silver Creek. Fan or blower. No. 1,328,679; Jan. 20; v. 270; p. 435.

Leonard, Goldstone D., New York, N. Y. Brassière. No. 1,328,439; Jan. 20; v. 270; p. 390.

Leonard, Henry E., Brooklyn, assignor to C. B. Cottrell & Sons Company, New York, N. Y. Cutting and folding machine. No. 1,337,778; Apr. 20; v. 273; p. 528.

Leonard, Henry E., Brooklyn, assignor to C. B. Cottrell & Sons Company, New York, N. Y. Sheet-registering device. No. 1,340,722; May 18; v. 274; p. 522.

Leonard, Henry E., Brooklyn, assignor to C. B. Cottrell & Sons Company, New York, N. Y. Sheet-registering device. No. 1,340,723; May 18; v. 274; p. 522.

Leonard, Henry E., Brooklyn, assignor to C. B. Cottrell & Sons Company, New York, N. Y. Cutting and folding machine. No. 1,344,302; June 22; v. 275; p. 709.

Leonard, Henry E., Brooklyn, assignor to C. B. Cottrell & Sons Company, New York, N. Y. Sheet-gripping device. No. 1,356,163; Oct. 19; v. 279; p. 430.

Leonard, Henry E., Brooklyn, assignor to C. B. Cottrell & Sons Company, New York, N. Y. Cutting and folding machine. No. 1,357,644; Nov. 2; v. 280; p. 84.

Leonard, James H., East Orange, N. J., assignor to A. B. Sands & Son Co., New York, N. Y. Trap for bathtubs, &c. No. 1,360,651; Nov. 30; v. 280; p. 895.

Leonard, James P., Joliet, Ill. Dental appliance. No. 1,345,606; July 6; v. 276; p. 55.

Leonard, John E. (See Hall, Charles V., assignor.)

Leonard, John E., assignor to The National Motion Picture Camera Company, Los Angeles, Calif. Film-moving mechanism. No. 1,336,639; Apr. 13; v. 273; p. 236.

Leonard, John E., assignor to The National Motion Picture Camera Company, Los Angeles, Calif. Film-magazine. No. 1,336,640; Apr. 13; v. 273; p. 236.

Leonard, John E., assignor to The National Motion Picture Camera Company, Los Angeles, Calif. Double-exposure mechanism for motion-picture cameras. No. 1,352,668; Sept. 14; v. 278; p. 220.

Leonard, John E., assignor to The National Motion Picture Camera Company, Los Angeles, Calif. Spot-finder. No. 1,356,868; Oct. 26; v. 279; p. 615.

Leonard, Joseph E., Cedar Rapids, Iowa. Tent-stove. No. 1,352,290; Sept. 7; v. 278; p. 111.

Leonard, Leslie V., Richmond, Victoria, Australia. Electric-heating resistance element. No. 1,337,779; Apr. 20; v. 273; p. 528.

Leonard, Merton S., assignor to B. F. Sturtevant Company, Boston, Mass. Centrifugal fan-wheel. No. 1,331,071; Feb. 17; v. 271; p. 424.

Leonard, Patrick A., M. F. Maloney, and E. Fandrich, Schenectady, N. Y. Fluid-pressure apparatus for burning powdered fuel. No. 1,338,454; Apr. 27; v. 273; p. 714.

Leonard, Roy E., Los Angeles, Calif. Controlling means for well-drilling-tool strings. No. 1,354,769; Oct. 5; v. 279; p. 64.

Leonard, Thomas K., Mecklenburg, N. Y. Ditching-machine. No. 1,355,677; Oct. 12; v. 279; p. 294.

Digitized by Google

Alphabetical list of patentees—Continued.

Leonard, Walter G., assignor of one-half to L. S. C. Nelson, Los Angeles, Calif. Music-cabinet. No. 1,335,286; Mar. 30; v. 272; p. 805.
Leonard, William B., Chicago, Ill. Chair for reinforcing-rods for reinforced concrete. No. 1,343,326; June 15; v. 275; p. 452.
Leonhardy, Mark, Buena Vista, Colo. Acetylene-gas lamp. No. 1,350,819; Aug. 24; v. 277; p. 695.
Leopard, Sarah N., Atlanta, Ga. Apparel. No. 1,341,716; June 1; v. 275; p. 20.
Leopold, George G., assignor to North Bro's M'f'g Co., Philadelphia, Pa. Lifting-jack. No. 1,343,732; June 15; v. 275; p. 532.
Leopold, George O. (See Fegley, T. J., and Leopold.)
Le Page, Charles E., Brooklyn, N. Y. Ash-truck. No. 1,344,047; June 22; v. 275; p. 659.
Le Pierre, Auguste M., San Francisco, Calif. Rotary gas-engine. No. 1,363,423; Dec. 28; v. 281; p. 619.
Lepère, Eugène M. G., Paris, France, assignor to W. Jay, Chicago, Ill. Pressure feed device for internal-combustion engines. No. 1,329,781; Feb. 3; v. 271; p. 81.
Lepley, Daniel F., Connellsville, Pa. Stop mechanism. No. 1,346,378; July 13; v. 276; p. 269.
Lepley, Daniel F., Connellsville, Pa. Reduced-speed trip for hoists. No. 1,358,378; Nov. 9; v. 280; p. 289.
Lepley, Daniel F., Connellsville, Pa. Brake control. No. 1,358,379; Nov. 9; v. 280; p. 289.
Lepley, Daniel F., Connellsville, Pa. Lock for dumping-cages. No. 1,363,985; Dec. 28; v. 281; p. 729.
Le Pontois, Leon J., Lakewood, assignor, by mesne assignments, to The Teagle Company, Cleveland, Ohio. Electric generator. No. 1,330,037; Feb. 3; v. 271; p. 129.
Le Pontois, Leon J., Lakewood, Ohio, assignor, by mesne assignments, to The Teagle Company, Cleveland, Ohio. Electric generator. No. 1,330,038; Feb. 3; v. 271; p. 129.
Le Pontois, Leon J., Lakewood, Ohio; J. G. Kipp, guardian; said Le Pontois assignor, by mesne assignments, to The Teagle Company, Cleveland, Ohio. Electric generator. No. 1,330,039; Feb. 3; v. 271; p. 129.
Lepper, John G. (See Williams, G. A., Missel, and Lepper.)
Leppert, Henry E., New Britain, Conn. Universal joint. No. 1,358,221; Nov. 9; v. 280; p. 257.
Lera, Peter, San Francisco, Calif. Rifle-grenade sight. No. 1,340,453; May 18; v. 274; p. 471.
Lerch, William F., Hartford, Conn. Liquid-dispensing device. No. 1,343,085; June 8; v. 275; p. 342.
Lerch, William G., Akron, Ohio, assignor to The Miller Rubber Company. Method of and apparatus for stripping hollow articles from forms or cores. No. 1,330,595; Feb. 10; v. 271; p. 265.
Lerner, Charles and Louis, New Brunswick, N. J. Safety device for cars. No. 1,359,396; Nov. 16; v. 280; p. 534.
Lerner, Charles and Louis, New Brunswick, N. J. Window construction. No. 1,359,397; Nov. 16; v. 280; p. 534.
Lerner, Louis. (See Lerner, Charles and L.)
Lesch, William G., Buffalo, N. Y. Window-shade bracket. No. 1,363,328; Dec. 28; v. 281; p. 602.
Leschen, William F. (See Newsom, J. N., Harder, and Leschen.)
Les Fleurs de Cristal. (See Véricel, Antoine, assignor.)
Lesiuk, Nykolaj M., New York, N. Y. Bread-cutting machine. No. 1,355,483; Oct. 12; v. 279; p. 257.
Lesiuk, Peter, Kohler, Wis. Lock. No. 1,330,378; Feb. 10; v. 271; p. 224.
Leslie, Eugene H. (See Cannon, H., Barbre, and Leslie.)
Leslie, Eugene H., and C. Barbre, Los Angeles, Calif., assignors to General Petroleum Corporation. Refining cracked oils. No. 1,337,523; Apr. 20; v. 273; p. 479.
Lessells, Allan H., New Brighton, England. Electric cable carrying or supporting means. No. 1,344,514; June 22; v. 275; p. 751.
Lessmann, Herbert F., Wayne, Nebr. Loading-machine. No. 1,337,082; Apr. 13; v. 273; p. 322.
Lessmann, Paul G., Chicago, Ill. Alarm for eight-day clocks. No. 1,333,178; Mar. 9; v. 272; p. 242.
Les Successeurs d'Albert Godde. (See Selmbille, Louis E., assignor.)
Le Sueur, Ernest A., Ottawa, Ontario, Canada. Electrolytic cell. No. 1,331,571; Feb. 24; v. 271; p. 537.
Le Sueur, Ernest A., Ottawa, Ontario, Canada. Electrolytic cell. No. 1,359,716; Nov. 23; v. 280; p. 642.
Le Sueur, Philip J., Brighton, England. Breast-drill. No. 1,343,370; June 15; v. 275; p. 461.
Le Sueur, Philip J., Brigton, England. Attachment to carpenters' and similar hand drilling-brace. No. 1,344,910; June 29; v. 275; p. 893.
Lester, Fred E., near San Jose, Calif. Machine for preparing fruit for drying. No. 1,345,607; July 6; v. 276; p. 55.
Lester, George C. (See Helling, Charles H., assignor.)
Lester, William H., New York, N. Y. Go-cart suitcase. No. 1,348,723; Aug. 3; v. 277; p. 114.
Le Tarte, Augustin J., Schenectady, N. Y. Connection device. No. 1,355,678; Oct. 12; v. 279; p. 294.
Leth, Marius, Omaha, Nebr. Garment support and stretcher. No. 1,343,397; June 15; v. 275; p. 466.
Lethern, Albert A., London, England, assignor, by mesne assignments, to F. R. Batchelder. Carrier for ammunition. No. 1,345,864; July 6; v. 276; p. 105.
Letizia, John, Johnstown, Pa. Hat-mirror. No. 1,362,537; Dec. 14; v. 281; p. 356.
Letroteur, Maurice L., Paris, France. Motor-plow. No. 1,337,929; Apr. 20; v. 273; p. 557.
Letsky, James. (See Kovzovich, Vincent J., assignor.)
Lettré, Philip H., Attleboro Falls, Mass. Match-strike. No. 1,327,244; Jan. 6; v. 270; p. 68.
Leumann, Richard, Chailly sur Lausanne, Switzerland. Device for feeding tablets of chocolate and similar articles to tables of wrapping-machines. No. 1,330,639; Feb. 10; v. 271; p. 273.
Leumann, Richard, Chailly-sur-Lausanne, Switzerland. Controlling device for charging-hoppers. No. 1,331,017; Feb. 17; v. 271; p. 414.
Leumann, Richard, Chailly sur Lausanne, Switzerland. Device for controlling the drive of machines. No. 1,332,443; Mar. 2; v. 272; p. 52.
Leumann, Richard, Chailly-sur-Lausanne, Switzerland. Conveying mechanism. No. 1,336,304; Apr. 6; v. 273; p. 113.
Leumann, Richard, Chailly-sur-Lausanne, Switzerland. Automatic weighing device. No. 1,336,705; Apr. 13; v. 273; p. 249.
Leumann, Richard, Chailly sur Lausanne, Switzerland. Paper-feeding device for wrapping-machines. No. 1,341,184; May 25; v. 274; p. 682.
Leutenegger, Alois. (See Müller, Fritz, assignor.)
Levangie, John M., South Braintree, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe-sewing machine. No. 1,342,685; June 8; v. 275; p. 262.
Levanseler, Frank E., Chicago, Ill. Support for hinged covers or members. No. 1,336,085; Apr. 6; v. 273; p. 72.
Levedahl, Axel, Aurora, assignor to Independent Pneumatic Tool Company, Chicago, Ill. Hose-clamp. No. 1,354,669; Oct. 5; v. 279; p. 45.
Levedahl, Axel, Aurora, Ill., assignor to Independent Pneumatic Tool Company, Chicago, Ill. Safety device for power-hoists. No. 1,360,652; Nov. 30; v. 280; p. 895.
Levedahl, Axel, Aurora, assignor to Independent Pneumatic Tool Company, Chicago, Ill. Hose-clamp. No. 1,363,329; Dec. 28; v. 281; p. 602.
Levene, Albert H., Philadelphia, Pa. Adjustable shelving. No. 1,336,971; Apr. 13; v. 273; p. 300.
Levene, Albert H., Philadelphia, Pa. Tote-box. No. 1,336,972; Apr. 13; v. 273; p. 300.
Levene, Albert H., Philadelphia, Pa. Movable platform. No. 1,336,973; Apr. 13; v. 273; p. 301.
Levene, Albert H., assignor to David Lupton's Sons Co., Philadelphia, Pa. Metal shelving. No. 1,343,327; June 15; v. 275; p. 452.
Levensaler, James A. (See Makowski, John F., assignor.)
Leventry, Joseph, Johnstown, Pa. Metallic railway crosstie. No. 1,328,574; Jan. 20; v. 270; p. 416.
Leventry, Joseph, Johnstown, Pa. Railway-crosstie. No. 1,354,258; Sept. 28; v. 278; p. 641.
Leventry, Louis, Johnstown, Pa. Metallic railway-crosstie. No. 1,331,114; Feb. 17; v. 271; p. 432.
Leveque, Bernard T., Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Button-attaching machine. No. 1,348,229; Aug. 3; v. 277; p. 20.
Leveque, Philip H. (See Veilleux, L., and Leveque.)
Lever Brothers Limited. (See Gavin, Norman A., assignor.)
Leverett, Amy H., Alton, Ill. Bird-bath. No. 1,354,113; Sept. 28; v. 278; p. 612.
Levesque, Ralph S., Cambridge, Auckland, New Zealand. Windmill. No. 1,359,180; Nov. 16; v. 280; p. 490.
Levey, Harold A., New Orleans, La. Manufacture of cellulose acetates. No. 1,330,543; Feb. 10; v. 271; p. 255.
Levey, John, Riverside, Ill., assignor to National Machine Works, Chicago, Ill. Valve for gas-generators. No. 1,363,047; Dec. 21; v. 281; p. 507.
Levey, Thomas J., Baltimore, Md., assignor, by mesne assignments, to Ferdinand Gutmann & Company, New York, N. Y. Capping-machine for bottles. No. 1,333,025; Mar. 9; v. 272; p. 214.
Levi, William I., St. Louis, Mo. Curtain-support. No. 1,351,919; Sept. 7; v. 278; p. 42.
Levi, Vittorio. (See Castella, Giorgio, assignor.)
Levin, Benjamin J., New York, N. Y. Connected blow-out patch. No. 1,357,784; Nov. 2; v. 280; p. 111.
Levin, Bertram, Hale, England. Manufacture of a boron derivative of pyrophosphoric acid. No. 1,336,974; Apr. 13; v. 273; p. 301.
Levin Bros. (See Levin, Jacob H., assignor.)
Levin, Harris, New York N. Y. Finger-ring guard. No. 1,341,218; May 25; v. 274; p. 689.
Levin, Isaac H., New York, N. Y. Electrolytic apparatus. No. 1,360,541; Nov. 30; v. 280; p. 873.
Levin, Isaac H., New York, N. Y. Water-feed attachment for electrolytic cells. No. 1,360,543; Nov. 30; v. 280; p. 873.
Levin, Isaac H., New York, N. Y. Electrolytic cell. No. 1,360,544; Nov. 30; v. 280; p. 874.
Levin, Isaac H., New York, N. Y. Electrode. No. 1,360,545; Nov. 30; v. 280; p. 874.

Digitized by Google

Levin, Isaac H., New York, N. Y. Indicator for electrolytic cells. No. 1,361,473; Dec. 7; v. 281; p. 100.
Levin, Isaac H., assignor to Electrolytic Oxy-Hydrogen Laboratories, Inc., New York, N. Y. Electrolytic apparatus. No. 1,360,542; Nov. 30; v. 280; p. 873.
Levin, Jacob, Springfield, Mass. Machine for extracting juice from fruit. No. 1,349,839; Aug. 17; v. 277; p. 458.
Levin, Jacob H., assignor to Levin Bros., Minneapolis, Minn. Cushion-forming machine. No. 1,331,160; Feb. 17; v. 271; p. 440.
Levin, Joseph, Baltimore, Md. Parasol. No. 1,342,451; June 8; v. 275; p. 217.
Levin, Max, Chicago, Ill. Manure-box. No. 1,327,397; Jan. 6; v. 270; p. 96.
Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Gear-wheel. No. 1,330,482; Feb. 10; v. 271; p. 244.
Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Pulley-block. No. 1,339,931. May 11; v. 274; p. 316.
Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Electric motor. No. 1,351,294; Aug. 31; v. 277; p. 850.
Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Loading-machine. No. 1,351,953; Sept. 7; v. 278; p. 48.
Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining-machine. No. 1,353,054; Sept. 14; v. 278; p. 297.
Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Conveyer. No. 1,358,167; Nov. 9; v. 280; p. 247.
Levine, Harry, Brooklyn, N. Y. Envelop-machine. No. 1,343,146; June 8; v. 275; p. 354.
Levine, Jacob, Brooklyn, N. Y. Toy animal. No. 1,359,398; Nov. 16; v. 280; p. 534.
Levine, Saul, New York, N. Y. Pocket for garments. No. 1,354,047; Sept. 28; v. 278; p. 598.
Levine, William. (See Rubin and Levine.)
Levinson, Benjamin. (See Gertler, Hyman, assignor.)
Levinson, Harry B., Brooklyn, N. Y., and W. H. Westfall, Rutherford, N. J. Trailer-truck. No. 1,327,338; Jan. 6; v. 270; p. 85.
Levinstein Limited. (See Wyler, Max, assignor.)
Leviston, Walla, and J. Perry, Kansas City, Mo. Spring-wheel. No. 1,350,370; Aug. 24; v. 277; p. 607.
Levitan, Nathan A., New York, N. Y. Toilet article. No. 1,339,265; May 4; v. 274; p. 113.
Le Vora, Thomas, Iowa City, Iowa. Gasolene-renovator. No. 1,357,101; Oct. 26; v. 279; p. 660.
Levy, Arthur B. (See Singer, J. B., and Levy.)
Levy, Benjamin F. (See Lapointe, Ralph R., assignor.)
Levy, Edward D., Springfield, Mo., and H. W. Jacobs, Topeka, Kans. Tank-car. No. 1,333,262; Mar. 9; v. 272; p. 257.
Levy, Helen and P., Rockaway Beach, N. Y. Cooking-cabinet. No. 1,332,671; Mar. 2; v. 272; p. 95.
Levy, Henri G., San Francisco, Calif. Electrical heating element. No. 1,332,852; Mar. 2; v. 272; p. 129.
Levy, Isidor, New York, N. Y. Tambourine. No. 1,350,975; Aug. 24; v. 277; p. 724.
Levy, Jennie, Philadelphia, Pa. Telephone-receiver holder No. 1,338,781; May 4; v. 274; p. 25.
Levy, Joseph. (See Agranat, Simon, assignor.)
Levy, Joseph I., Philadelphia, Pa. Sanitary toilet-seat cover. No. 1,358,222; Nov. 9; v. 280; p. 257.
Levy, M. S., and Sons. (See Moses, Herbert L., assignor.)
Levy, Morris, Denver, Colo. Spring-wheel. No. 1,339,861; May 4; v. 274; p. 131.
Levy, Philip. (See Levy, Helen and P.)
Levy, Samuel, Knoxville, Tenn. Ice-cream dipper. No. 1,352,755; Sept. 14; v. 278; p. 238.
Levy, Samuel, Knoxville, Tenn. Ice-cream dipper. No. 1,352,756; Sept. 14; v. 278; p. 238.
Levy, Samuel S. (See Finberg, H. D., and Levy.)
Levy, Solomon. (See Polk, Willis, assignor.)
Levy, William. (See Morris, D., and Levy, assignors.)
Levy, William, Paterson, N. J. Cooking device. No. 1,337,524; Apr. 20; v. 273; p. 479.
Levy, William, Paterson, N. J. Railway-passenger-ticket holder. No. 1,340,724; May 18; v. 274; p. 523.
Levy, William, Paterson, N. J. Reversible railway-ticket holder. No. 1,343,569; June 15; v. 275; p. 500.
Lewandowsky, Andrew, Lansing, Mich. Curtain-hanger No. 1,338,312; Apr. 27; v. 273; p. 698.
Lewellen, Rosa B., Hylton, Tex. Garbage-can. No. 1,352,521; Sept. 14; v. 278; p. 191.
Lewers, Robert J., New York, N. Y. Educational device. No. 1,356,929; Oct. 26; v. 279; p. 627.
Lewers, Robert J., New York, N. Y. Tie-holder. No. 1,363,888; Dec. 28; v. 281; p. 710.
Lewicki, Wilhelm, assignor, by mesne assignments, to The Chemical Foundation, Inc., Essen-on-the-Ruhr, Germany. Subdividing metal for use in plastic metallic packings. No. 1,355,984; Oct. 19; v. 279; p. 394.
Lewin, Joshua A., and G. P. Bartlett, Durban, South Africa. Disinfecting means or attachment for the flushing arrangements of water-closets, urinals, sinks, and the like. No. 1,355,155; Oct. 12; v. 279; p. 192.
Lewis, Alexander T., Brookline, Pa. Motor-control system. No. 1,357,102; Oct. 26; v. 279; p. 661.
Lewis, Alfred A., Melbourne, and F. O. Dutton, Northcote, Victoria, Australia. Safety device or appliance for use with aeroplanes, airships, and other aircraft. No. 1,339,828; May 11; v. 274; p. 296.
Lewis, Allen H., Wichita, Kans. Seat automatic gear control. No. 1,347,641; July 27; v. 276; p. 634.
Lewis, Alsynas S., assignor of one-half to George H. Lewis, Auburn, Wash. Valve-spring lifter. No. 1,354,982; Oct. 5; v. 279; p. 106.
Lewis, Arthur J., Stratford, Conn. Assembling springs in fastener members. No. 1,357,172; Oct. 26; v. 279; p. 674.
Lewis, Arthur J., Stratford, Conn. Assembling springs in fastener members. No. 1,357,173; Oct. 26; v. 279; p. 674.
Lewis, Arthur J., Stratford, Conn. Assembling springs in fastener members. No. 1,357,174; Oct. 26; v. 279; p. 674.
Lewis, Arthur J., Stratford, Conn. Assembling springs in fastener members. No. 1,357,175; Oct. 26; v. 279; p. 674.
Lewis, Arthur J., Stratford, Conn. Assembling springs in fastener members. No. 1,357,176; Oct. 26; v. 279; p. 674.
Lewis, Arthur J., Stratford, assignor to The Baird Machine Company, Bridgeport, Conn. Mechanism for forming and assembling snap-fastener springs. No. 1,351,429; Aug. 31; v. 277; p. 877.
Lewis, Arthur J., Stratford, Conn., assignor to Sta-Rite Hair Pin Company, Galesburg, Ill. Machine for making hairpins. No. 1,360,234; Nov. 23; v. 280; p. 744.
Lewis, Arthur P., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Selvage-trimmer. No. 1,333,588; Mar. 9; v. 272; p. 319.
Lewis, B. Palmer. (See Sohr, Carl, assignor.)
Lewis, Charles A., Toronto, Ontario, Canada. Pickle-fork holder. No. 1,327,437; Jan. 6; v. 270; p. 103.
Lewis, Charles A., Toronto, Ontario, Canada. Pickle-fork. No. 1,327,438; Jan. 6; v. 270; p. 104.
Lewis, Charles A., Toronto, Ontario, Canada. Pickle-fork holder. No. 1,327,439; Jan. 6; v. 270; p. 104.
Lewis, Charles A., Dayton, Ohio. Heater for hydrocarbon-fuel intakes. No. 1,335,843; Apr. 6; v. 278; p. 26.
Lewis, Charles A., and H. E. Smock, Dayton, Ohio. Automatic self-propelled toy tank. No. 1,343,834; June 15; v. 275; p. 553.
Lewis, Charles W., New York, N. Y. Collapsible box. No. 1,341,429; May 25; v. 274; p. 729.
Lewis, Daniel L., Dayton, Ohio. Rod-coupling. No. 1,331,776; Feb. 24; v. 271; p. 575.
Lewis, David M., Topeka, Kans., assignor to Lewis Draft Appliance Co., Chicago, Ill. Method of and apparatus for drafting locomotives. (Reissue.) No. 14,809; Mar. 2; v. 272; p. 133.
Lewis, David O., Detroit, Mich. Window-latch. No. 1,328,284; Jan. 20; v. 270; p. 361.
Lewis Draft Appliance Co. (See Lewis, David M., assignor.) (Reissue.)
Lewis, Earl A., *et al.* (See Mentzer, Claude E., assignor.)
Lewis, Edward G. (See Doe, Loring B., assignor.)
Lewis, Edward H., Scranton, Pa. Wheel. No. 1,346,456; July 13; v. 276; p. 344.
Lewis, Edward R. (See Gies and Lewis, assignors.)
Lewis, Elgie J., Middleport, N. Y. Fruit-coring machine. No. 1,362,807; Dec. 21; v. 281; p. 461.
Lewis, Elias, Terre Haute, Ind. Knife. No. 1,329,912; Feb. 3; v. 271; p. 106.
Lewis, Elwood A. (See Borders, H. L., and Lewis.)
Lewis, Forest, Charleston, W. Va. Lunch-box. No. 1,346,220; July 13; v. 276; p. 237.
Lewis, Francis M., assignor to A. J. Sorge, Seattle, Wash. Amalgamator. No. 1,354,497; Oct. 5; v. 279; p. 10.
Lewis, Frank D., West Orange, N. J., assignor to Pathe Freres Phonograph Company, New York, N. Y. Automatic stop for visible records corresponding to sound-records. No. 1,358,085; Nov. 9; v. 280; p. 231.
Lewis, Frank M., Chicago, Ill. Differential mechanism. No. 1,328,440; Jan. 20; v. 270; p. 390.
Lewis, Frank M., Pimlico, London, England. Tripod and like support. No. 1,351,390; Aug. 31; v. 277; p. 869.
Lewis, Fred A., Millertown, Newfoundland. Billiard-cue chalker. No. 1,341,376 May 25; v. 274; p. 719.
Lewis, Frederick K., assignor to The Ashtabula Bow Socket Company, Ashtabula, Ohio. Top for vehicles and the like. No. 1,353,129; Sept. 14; v. 278; p. 311.
Lewis, Frederick W., assignor to Chapin & Hollister Co., Providence, R. I. Belt-buckle. No. 1,350,076; Aug. 17; v. 277; p. 504.
Lewis, Frederick W., assignor to Chapin & Hollister Co., Providence, R. I. Belt-buckle. No. 1,360,123; Nov. 23; v. 280; p. 723.
Lewis, George. (See Wales, Nathaniel B., assignor.)
Lewis, George H. (See Lewis, Alsynas S., assignor.)
Lewis, George S., Springfield, assignor to J. Stevens Arms Company, Chicopee Falls, Mass. Rifle-sight. No. 1,338,183; Apr. 27; v. 273; p. 674.
Lewis, George S., Springfield, assignor to J. Stevens Arms Company, Chicopee Falls, Mass. Pistol. No. 1,338,381; Apr. 27; v. 273; p. 711.
Lewis, George S., Springfield, assignor to J. Stevens Arms Company, Chicopee Falls, Mass. Rear sight for firearms. No. 1,338,382; Apr. 27; v. 273; p. 711.

Digitized by Google

Lewis, George W. (See Hayes, H. C., and Lewis.)
Lewis, George W., Grinnell, Iowa, assignor to Lovell Manufacturing Company, Erie, Pa. Wringer. No. 1,327,766; Jan. 13; v. 270; p. 227.
Lewis, Goodrich Q., Wheaton, Ill., assignor to W. H. Miner, Chazy, N. Y. Tandem draft-rigging. No. 1,340,490; May 18; v. 274; p. 478.
Lewis, Harry A., Boston, Mass. Ejector for rifles. No. 1,335,063; Mar. 30; v. 272; p. 764.
Lewis, Harry A., Norristown, Pa. Feed-roller apparatus for rolling-mills. No. 1,356,535; Oct. 26; v. 279; p. 550.
Lewis, Harry A., Norristown, Pa. Centering apparatus for roller-tables. No. 1,360,769; Nov. 30; v. 280; p. 918.
Lewis, Harry A., Norristown, and A. D. Wood, Philadelphia, Pa. Roller-table. No. 1,342,220; June 1; v. 275; p. 120.
Lewis, Harry A., Norristown, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electromagnet apparatus. No. 1,339,900; May 11; v. 274; p. 310.
Lewis, Harvey H. (See Motts, C. W., and Lewis.)
Lewis, Henry H., Attleboro, Mass. Box for cigarettes and like articles. No. 1,341,857; June 1; v. 275; p. 48.
Lewis, Isaac N., London, England. Breech-action for firearms. No. 1,344,911; June 29; v. 275; p. 893.
Lewis, James A., Hartford City, Ind. Groove-cutting tool. No. 1,352,522; Sept. 14; v. 278; p. 191.
Lewis, James C., Boston, Mass., assignor to Lewis Rim Company. Rim for vehicle-wheels. No. 1,362,494; Dec. 14; v. 281; p. 347.
Lewis, Jesse D., assignor to S. E. Allen, H. D. Rives, and F. Carroll, Los Angeles, Calif. Measure. No. 1,347,465; July 20; v. 276; p. 542.
Lewis, Jesse L., Allentown, Pa. Tag-fastener. No. 1,330,640; Feb. 10; v. 271; p. 273.
Lewis, John D. P., St. Louis, Mo. Atomizing-primer for internal-combustion engines. No. 1,338,740; May 4; v. 274; p. 17.
Lewis, John L., Seattle, Wash. Musical stringed instrument. No. 1,346,458; July 13; v. 276; p. 285.
Lewis, John M. B., Lynchburg, Va. Animal-stanchion. No. 1,329,417; Feb. 3; v. 271; p. 14.
Lewis, John M. B., assignor to Cowmatic Corporation, Lynchburg, Va. Animal-stanchion. No. 1,337,925; Apr. 20; v. 273; p. 556.
Lewis, John M. B., assignor to Cowmatic Corporation, Lynchburg, Va. Manger partition. No. 1,337,926; Apr. 20; v. 273; p. 556.
Lewis, John M. B., assignor to Cowmatic Corporation, Lynchburg, Va. Animal-stanchion. No. 1,337,927; Apr. 20; v. 273; p. 556.
Lewis, John M. B., assignor to Cowmatic Corporation, Lynchburg, Va. Stanchion-support. No. 1,341,989; June 1; v. 275; p. 74.
Lewis, John V. (See Fowler, E., and Lewis.)
Lewis, Julian C., St. Louis, Mo. Rotary drill. No. 1,348,815; Aug. 3; v. 277; p. 131.
Lewis, Lee D., Tulsa, Okla. Wrench. No. 1,363,135; Dec. 21; v. 281; p. 524.
Lewis, Leo R., Somerville, Mass. Loose-leaf binder. No. 1,347,342; July 20; v. 276; p. 518.
Lewis, Le Roy D., Seattle, Wash. Baling and transporting device. No. 1,333,179; Mar. 9; v. 272; p. 242.
Lewis, Le Roy D., Seattle, Wash. Method for use in baling and transporting cordwood. No. 1,333,180; Mar. 9; v. 272; p. 242.
Lewis, Leroy M., Philadelphia, Pa. Alarm-controlling mechanism. No. 1,339,567; May 11; v. 274; p. 247.
Lewis, Leroy M., Philadelphia, Pa. Fusible link and strut. No. 1,339,829; May 11; v. 274; p. 297.
Lewis, Lloyd V., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-signal. No. 1,328,960; Jan. 27; v. 270; p. 518.
Lewis, Lloyd V., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Speed-controlling apparatus for railway-vehicles. No. 1,334,385; Mar. 23; v. 272; p. 576.
Lewis, Lloyd V., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. No. 1,341,753; June 1; v. 275; p. 28.
Lewis, Lloyd V., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-indicating apparatus. No. 1,342,635; June 8; v. 275; p. 252.
Lewis, Lloyd V., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. No. 1,347,045; July 20; v. 276; p. 460.
Lewis, Lloyd V., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling system. No. 1,351,771; Sept. 7; v. 278; p. 11.
Lewis, Lloyd V., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. No. 1,353,250; Sept. 21; v. 278; p. 395.
Lewis, Lloyd V., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling system. No. 1,363,254; Dec. 28; v. 281; p. 588.
Lewis, Ralph A., Grangeville, Idaho. Rocking-chair. No. 1,348,429; Aug. 3; v. 277; p. 59.
Lewis Rim Company. (See Lewis, James C., assignor.)
Lewis, Rollin C., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Time-controlled dead-locking device. No. 1,337,083; Apr. 13; v. 273; p. 322.
Lewis, Rollin C., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Time-controlled dead-locking device. No. 1,337,928; Apr. 20; v. 273; p. 556.
Lewis, Samuel H., New York, N. Y. Brake for motor-driven vehicles. No. 1,353,806; Sept. 21; v. 278; p. 505.
Lewis, Samuel R., El Paso, Tex. Crown-setter. No. 1,345,608; July 6; v. 276; p. 55.
Lewis, Seneca G., Greensburg, Pa. Watch-support. No. 1,327,051; Jan. 6; v. 270; p. 33.
Lewis, Seneca G., Greensburg, and G. W. Daum, Jeannette, Pa. Buffer. No. 1,336,527; Apr. 13; v. 273; p. 215.
Lewis, Stephen M., Sweet Home, Ark. Incubator. No. 1,346,717; July 13; v. 276; p. 336.
Lewis, Thomas E., Penygraig, Rhondda, Wales. Engine. No. 1,336,846; Apr. 13; v. 273; p. 277.
Lewis, Thomas E., Rhondda, Wales. Motion-converting device. No. 1,336,847; Apr. 13; v. 273; p. 277.
Lewis, Thomas E., Fort Worth, Tex. Apparatus for preserving and protecting poles and the like. No. 1,353,598; Sept. 21; v. 278; p. 464.
Lewis, Walter V., Schenectady, N. Y. Adjustable stand. No. 1,359,399; Nov. 16; v. 280; p. 534.
Lewis, Wilfred, Haverford, assignor to The Tabor Manufacturing Company, Philadelphia, Pa. Molding-machine. No. 1,343,835; June 15; v. 275; p. 553.
Lewis, Wilfred, Haverford, Pa. Jar-molding machine. No. 1,343,836; June 15; v. 275; p. 553.
Lewis, Wilfred, Haverford, assignor to The Tabor Manufacturing Company, Philadelphia, Pa. Molding-machine. (Reissue.) No. 14,968; Oct. 26; v. 279; p. 682.
Lewis, Willard I., Walpole, Mass. Device for opening and guiding webs of cloth, &c. No. 1,346,540; July 13; v. 276; p. 303.
Lewis, William B. (See von Schlegell, Frederick, and Lewis.)
Lewis, William H., Atwell, Colo. Irrigation means. No. 1,343,871; June 15; v. 275; p. 561.
Lewis, William K., and D. T. Blevins, Denver, Colo., assignors to The National Beet Harvester Company. Beet-harvester. No. 1,346,322; July 13; v. 276; p. 259.
Lewitzky, Lottie, Philadelphia, Pa. Baking-pan. No. 1,340,659; May 18; v. 274; p. 511.
Lewsen, Nicolaus, Portland, Me. Tire-rim-expanding jack. No. 1,353,765; Sept. 21; v. 278; p. 497.
Ley, George A., Chicago, Ill. Flash-light igniter. No. 1,332,048; Feb. 24; v. 271; p. 627.
Ley, George A., Chicago, Ill. Flash-light-testing apparatus. No. 1,345,201; June 29; v. 275; p. 948.
Ley, George A., Chicago, Ill. Flash-light bag. No. 1,350,730; Aug. 24. v. 277; p. 678.
Leyden, Andrew, Chicago, Ill. Ash-tray. No. 1,356,638; Oct. 26; v. 279; p. 569.
Leygrand & Company, Inc., trustee. (See Bergman, Axel G., assignor.)
Leymarie, Edmond A., Paris, France. Motor-tractor and the like. No. 1,335,249; Mar. 30; v. 272; p. 798.
L'heureux, Joseph E., Manville, R. I. Sash-lock. No. 1,339,362; May 4; v. 274; p. 131.
Libbey, C. A., Company. (See Rasmussen, Robert F., assignor.)
Libbey-Owens Sheet Glass Company, The. (See Colburn, Irving W., assignor.) (Reissue.)
Libbey Owens Sheet Glass Company, The. (See Crowley, Joseph P., assignor.)
Libby-Owens Sheet Glass Company, The. (See Owens, Michael J., assignor.)
Libbey-Owens Sheet Glass Company, The. (See Owens, Thomas S., assignor.)
Libbey-Owens Sheet Glass Company, The. (See Whittemore, James, assignor.)
Libbey, Samuel R., assignor of one-half to S. H. Severson, Brady, Mont. Clamp. No. 1,351,772; Sept. 7; v. 278; p. 11.
Libby, A. D. T. (See Mitchell, John A., assignor.)
Libby, Albion D. T., East Orange, and E. Borger, assignors to Splitdorf Electrical Company, Newark, N. J. Combined generator and timer-distributer bearing-head. No. 1,338,990; May 4; v. 274; p. 63.
Libby, Chester D., Malden, assignor to A. C. Lawrence Leather Company, Boston, Mass. Jointed welting. No. 1,353,251; Sept. 21; v. 278; p. 395.
Libby, Lewis L., Windsor Locks, Conn. Transmission-band lining. No. 1,357,103; Oct. 26; v. 279; p. 661.
Libby, Lewis L., Windsor Locks, Conn. Transmission-band lining. No. 1,362,495; Dec. 14; v. 281; p. 348.
Libby, Pearl A., Waldoboro, Me. Tree-protector. No. 1,353,404; Sept. 21; v. 278; p. 425.

Digitized by Google

Libby, Sam H., East Orange, N. J., assignor to General Electric Company. Electric hoist. No. 1,347,785; July 27; v. 276; p. 663.

Libenschek, Rudolf, Pittsburgh, assignor of one-half to S. Lovrencic, Bellevue, Pa. Device for holding bolts of transmission-cases. No. 1,337,084; Apr. 13; v. 273; p. 322.

Liberty Auto Lock Co. (See Saegesser, Albert W., assignor.)

Liberty Beet Topper Company. (See Smith, Marion A., assignor.)

Liberty Bread Slicer, Inc. (See Knapp, Walter C., assignor.)

Liberty Burner Co. (See Yeager, Matthias S., assignor.)

Liberty, Harry L., Duluth, Minn. Pipe-coupling. No. 1,334,306; Mar. 23; v. 272; p. 561.

Liberty Ignition Company. (See Rich, James E., assignor.)

Liberty Laboratories, Inc., The. (See Haeseler, Paul, assignor.)

Liberty Metal Products Company. (See Bean, Roscoe, assignor.)

Liberty Milker Company. (See Leach, Mark, assignor.)

Liberty Pressure Cooker Company, The. (See Luby J. L., and Treat, assignors.)

Liberty Radiator Company. (See Coffelder, Thomas H., assignor.)

Liberty Radiator Company. (See Coffelder, Thomas N., assignor.)

Liberty, Saül R., Pawtucket, R. I. Loom-shuttle. No. 1,347,170; July 20; v. 276; p. 484.

Liberty Self Service Corporation. (See Carroll, James H., assignor.)

Liberty Tool Company, The. (See Astin, Ernest S., assignor.)

Liberty Tool Company, The. (See Baltzley, Oren F., assignor.)

Liberty Tool Company, The. (See Grimes, E. O., Jr., and Baltzley, assignor.)

Liberty Tool Corporation, The. (See Baltzley, Oren F., assignor.)

Library Bureau. (See Ohnstrand, Enoch, assignor.)

Lichtenberg, Erich H., assignor to Koehring Machine Company, Milwaukee, Wis. Clutch and brake control mechanism. No. 1,328,635; Jan. 20; v. 270; p. 427.

Lichtenberg, Fred and M. M. McCarthy, Yonkers, N. Y. Building construction. No. 1,348,018; July 27; v. 276; p. 709.

Lichtenberger, Louis J. (See Hubner, Anthony, assignor.)

Lichtenstein, Alexander, Brooklyn, N. Y. Wire-scraping tool. No. 1,337,236; Apr. 20; v. 273; p. 425.

Lichtenstein, Edwin, (now by judicial change of name E. Lane,) New York, N. Y. Collar-shaper. No. 1,355,557; Oct. 12; v. 279; p. 271.

Lichtenstein, Solomon K., New York, N. Y. Cotton-gin. No. 1,350,661; Aug. 24; v. 277; p. 664.

Lichter, Malvin, New York, N. Y. Preparing plates for printing. No. 1,348,019; July 27; v. 276; p. 710.

Lichter, Malvin, New York, N. Y. Trial-sheet for typewritten matter. No. 1,362,632; Dec. 21; v. 281; p. 426.

Lichtman, Michael, New York, N. Y. Telescope. No. 1,353,766; Sept. 21; v. 278; p. 498.

Lidberg, Tiodolf, Chicago, Ill. Holder and carrier for blood-pipettes. No. 1,340,660; May 18; v. 274; p. 511.

Lidberg, Tiodolf, assignor to Electro-Thermophore Company, Chicago, Ill. Controlling temperatures. No. 1,327,207; Jan. 6; v. 270; p. 61.

Liddicoat, Caleb, Albia, Iowa. Safety attachment for elevators. No. 1,360,653; Nov. 30; v. 280; p. 895.

Liddle, Absalom, *et al.* (See Dabbs, A. E., Savage, and Hindle, assignors.)

Liddle, Absalom. (See Hindle, A. H., Savage, Liddle, and Dabbs.)

Lidseen, Gustave, Chicago, Ill. Lever operating mechanism for oil-cans. No. 1,345,788; July 6, v. 276; p. 90.

Lidseen, Gustave, Chicago, Ill. Oil-can lever mechanism. No. 1,346,130; July 13; v. 276; p. 220.

Lidseen, Gustave, Chicago, Ill. Pin cut-off and pointing machine. No. 1,363,797; Dec. 28; v. 281; p. 692.

Liebau, Richard, New Haven, Conn., assignor to The Westinghouse Air Spring Company. Hydropneumatic device. No. 1,340,233; May 18; v. 274; p. 430.

Liebau, Richard, New Haven, Conn., assignor to The Westinghouse Air Spring Company. Air-spring suspension. No. 1,363,798; Dec. 28; v. 281; p. 692.

Liebegott, George H. (See Miller and Liebegott.)

Lieberman, George F. (See Gensmer, T., and Lieberman.)

Liebermann, Verna B. (See Smith, Harvey G., assignor.)

Liebers, Earnest M., Minden, Nebr. Feeder for grain-separators. No. 1,339,206; May 4; v. 274; p. 103.

Liebers, Meyer, Yonkers, N. Y., assignor of one-half to H. Cole, Brooklyn, N. Y., and one-half to W. R. Osborn, New York, N. Y. Hairpin. No. 1,342,822; June 8; v. 275; p. 290.

Lieberthal, Robert H., Bridgeport, Conn. Toothbrush. No. 1,343,570; June 15; v. 275; p. 500.

Liebknecht, Otto, Frankfort-on-the-Main, Germany, assignor to The Roessler & Hasslacher Chemical Co., New York, N. Y. Manufacture of alkaliamids. No. 1,359,080; Nov. 16; v. 280; p. 472.

Liebler, Frederick, New York, N. Y. Signal, indicator, and recorder. No. 1,328,245; Jan. 13; v. 270; p. 318.

Liebler, Theodore A., *et al.* (See Textorius, Knut O. B., assignor.)

Liebmann, Alfred J., New York, N. Y., and C. A. Laise, Weehawken, N. J., assignors, by mesne assignments, to Independent Lamp and Wire Company, Inc., New York, N. Y. Hardened material for use in the arts as substitutes for diamonds, &c., and making same. No. 1,343,976; June 22; v. 275; p. 645.

Liebmann, Alfred J., New York, N. Y., and C. A. Laise, Weehawken, N. J., assignors, by mesne assignments, to Independent Lamp and Wire Company, Inc., New York, N. Y. Hardened material for use in the arts as substitutes for diamonds, &c., and making same. No. 1,343,977; June 22; v. 275; p. 645.

Liebowitz, Benjamin, New Rochelle, N. Y. Pivot. No. 1,335,745; Apr. 6; v. 272; p. 8.

Liebowitz, Benjamin, New Rochelle, N. Y. Friction-pivot. No. 1,348,020; July 27; v. 276; p. 710.

Liechty, Henry, Louisville, Ohio. Horsetail-holder. No. 1,343,147; June 8; v. 275; p. 354.

Liedstrand, Karl E. L., Stockholm, Sweden. Cards adapted for statistic or similar purposes and apparatus for sorting the cards. No. 1,334,957; Mar. 30; v. 272; p. 744.

Liedtke, Hugo F., Hagerstown, Md. Vibrator. No. 1,346,221; July 13; v. 276; p. 237.

Lien, Erick K., San Diego, Calif. Peeling-knife. No. 1,357,785; Nov. 2; v. 280; p. 111.

Liess, Edward T., Huntington, N. Y. Valve-extractor. No. 1,350,163; Aug. 17; v. 277; p. 520.

Lietz, Charles J., Middletown, N. Y., assignor to Ideal Wrapping Machine Company. Wrapping-machine. No. 1,359,181; Nov. 16; v. 280; p. 491.

Lietz, Herman C., assignor to The Auglaize Furniture Company, New Bremen, Ohio. Drawer-desk. No. 1,358,004; Nov. 9; v. 280; p. 215.

Lietz, Paul S., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Bed for game-tables and making same. No. 1,328,332; Jan. 20; v. 270; p. 370.

Liggett & Meyers Tobacco Company. (See Dula, Caleb C., assignor.)

Liggett & Myers Tobacco Co. (See Luckett, Edward H., assignor.)

Liggett, William K., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Single-roll crusher. No. 1,339,932; May 11; v. 274; p. 316.

Liggett, William K., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Single-roll crusher. No. 1,339,933; May 11; v. 274; p. 316.

Liggett, William K., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Crushing-machine. No. 1,358,005; Nov. 9; v. 280; p. 215.

Light, Peter, Cincinnati, Ohio. Hoisting and displaying device. No. 1,337,237; Apr. 20; v. 273; p. 425.

Lightell, William. (See Stobs, T., and Lightell.)

Lightfoot, Edwin N., New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric heater. No. 1,359,400; Nov. 16; v. 280; p. 535.

Lightfoot, Edwin N., New York, N. Y. assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Ignition device. No. 1,359,514; Nov. 23; v. 280; p. 602.

Lightfoot, Maude E., Phoenix, Ariz. Coal-scuttle and implement carrier. No. 1,357,104; Oct. 26; v. 279; p. 661.

Lightle, Lena R., Chewelah, Wash. Rotary table for ovens. No. 1,335,844; Apr. 6; v. 273; p. 26.

Lightner, Arthur D., assignor to The Willys-Overland Company, Toledo, Ohio. Rope-clamp. No. 1,343,177; June 8; v. 275; p. 360.

Lightning Coupler Link Company. (See Kremer, Theodore C., assignor.)

Ligon, Arthur L., Killeen, Tex. Deep-well pump. No. 1,332,672; Mar. 2; v. 272; p. 95.

Ligon, Harry W., Atlanta, Ga., assignor to Continental Gin Company, Birmingham, Ala. Apparatus for handling cotton and the like. No. 1,340,964; May 25; v. 274; p. 639.

Ligterink, Johannes H., Utrecht, Netherlands. Manufacture of floor-coverings as a substitute for linoleum. No. 1,348,571; Aug. 3; v. 277; p. 86.

Likly, Henry, Company. (See Likly, Henry K., assignor.)

Likly, Henry, & Company. (See Reinhard, Norman A., assignor.)

Likly, Henry K., assignor to Henry Likly Company, Rochester, N. Y. Self-closing trunk-bag. No. 1,347,390; July 20; v. 276; p. 527.

Liles, Ormand C., Goldsboro, N. C. Bed-lifter. No. 1,334,914; Mar. 23; v. 272; p. 677.

Liles, William P., assignor to L. Metcalf, Marlow, Tenn. Telegraph-key. No. 1,341,810; June 1; v. 275; p. 39.

Lilienfeld, Leon, Vienna, Austria, assignor, by mesne assignments, to The Chemical Foundation, Inc. Alkyl ether of starches and similar carbohydrates and producing same. No. 1,350,820; Aug. 24; v. 277; p. 695.

Lilienfeld, Leon, Vienna, Austria, assignor, by mesne assignments, to The Chemical Foundation, Inc. Manufacture of viscose. No. 1,355,985; Oct. 19; v. 279; p. 394.

Liljeberg, Anton W., Minneapolis, Minn. Welt-forming device. No. 1,350,731; Aug. 24; v. 277; p. 678.

Lillard, Rufus B., Newark, N. J. Lock for mail-boxes. No. 1,362,949; Dec. 21; v. 281; p. 487.

Digitized by Google

Lillard, William W., Irvington, assignor of one-half to E. J. King, Jersey City, N. J. Heating means. No. 1,349,136; Aug. 10; v. 277; p. 247.
Lillberg, John E., Dover, Mont. Gravity level and plumb. No. 1,338,639; Apr. 27; v. 273; p. 759.
Lilley, Alfred L., West Hartford, Conn. Toy or game. No. 1,340,278; May 18; v. 274; p. 438.
Lillibridge, Curtis C., Hutchinson, Kans. Fuel feeder and cut-off. No. 1,334,251; Mar. 16; v. 272; p. 504.
Lillibridge, Curtis C., Hutchinson, Kans. Burner. No. 1,362,881; Dec. 21; v. 281; p. 475.
Lillibridge, Mary A., Waterford township, Erie county, Pa. Stay-securing device. No. 1,348,021; July 27; v. 276; p. 710.
Lillie, Andrew. (See Kuznik, August, assignor.)
Lillie, Arthur C. (See Spencer, J. E., and Lillie.)
Lillie, Samuel M., Philadelphia, Pa. Surface condenser. No. 1,335,692; Mar. 30; v. 272; p. 882.
Lillie, William J. (See Derr, William R., assignor.)
Lillos, Charles G., Minneapolis, Minn. Air-pump. No. 1,328,529; Jan. 20; v. 270; p. 408.
Lillos, Charles G., Minneapolis, Minn. Air-pump. No. 1,351,176; Aug. 31; v. 277; p. 825.
Lillquist, Victor A., Superior, Wis. Wrench. No. 1,352,009; Sept. 7; v. 278; p. 59.
Lilly, Eli, and Company, The. (See Lilly, Josiah K., assignor.)
Lilly, Ford. (See Wohlgemuth and Lilly.)
Lilly, George W., Des Moines, Iowa. Bathing-platform. No. 1,358,680; Nov. 9; v. 280; p. 351.
Lilly, Jahua A. (See Lilly, William T., assignor.)
Lilly, Josiah K., assignor to The Eli Lilly and Company, Indianapolis, Ind. Enteric preparation of ipecac alkaloids. No. 1,334,463; Mar. 23; v. 272; p. 590.
Lilly, Samuel, Morehead City, N. C. Power-transmitting device for automobile-wheels. No. 1,354,070; Oct. 5; v. 279; p. 45.
Lilly, Thomas L., Minonk, Ill. Truck-hoist. No. 1,341,142; May 25; v. 274; p. 674.
Lilly, William T., Beckley, assignor of one-half to J. A. Lilly, Glen Morgan, W. Va. Plow. No. 1,330,812; Feb. 17; v. 271; p. 373.
Limacher, Walter P., Pasadena, Calif. Bumper for automobiles. No. 1,341,917; June 1; v. 275; p. 59.
Liming, Franz O., Chicago, Ill., assignor of one-half to J. M. Liming, Fairfield, Iowa. Door-controlling apparatus. No. 1,352,980; Sept. 14; v. 278; p. 283.
Liming, John M. (See Liming, Franz O., assignor.)
Limle, Edward B., Cincinnati, Ohio, assignor, by mesne assignments, to United-Xpedite Finishing Company, Berwick, Me. Finishing device. No. 1,351,177; Aug. 31; v. 277; p. 826.
Limoncello, Joseph, Chicago, Ill. Drum. No. 1,349,840; Aug. 17; v. 277; p. 458.
Limpert, Alexander S., Pittsburgh, Pa., assignor to Golden Glow Sign Corporation, New York, N. Y. Illuminated sign. No. 1,346,499; July 13; v. 276; p. 293.
Limpert, Alexander S., Pittsburgh, Pa., assignor to Golden Glow Sign Corporation, New York, N. Y. Illuminated sign. No. 1,348,816; Aug. 3; v. 277; p. 131.
Linane, James F., Santa Barbara, Calif. Polishing composition. No. 1,359,401; Nov. 16; v. 280; p. 535.
Linard, Raymond, Ougrée, Belgium. Mill-train for the manufacture of small and medium iron bars. No. 1,348,230; Aug. 3; v. 277; p. 20.
Linbarger, Silas C., assignor to The Carborundum Company, Niagara Falls, N. Y. Ceramic article. No. 1,336,751; Apr. 13; v. 273; p. 258.
Linbarger, Silas C., assignor to The Carborundum Company, Niagara Falls, N. Y. Graphite articles and making the same. No. 1,339,266; May 4; v. 274; p. 114.
Linbarger, Silas C., assignor to The Carborundum Company, Niagara Falls, N. Y. Refractory article. No. 1,356,211; Oct. 19; v. 279; p. 440.
Lince, Jacob, *et al.* (See Comb, J. M., and Peavey, assignors.)
Linch, William H., Bellaire, Ohio. Window-shade appliance. No. 1,326,941; Jan. 6; v. 270; p. 11.
Lincoln Electric Company, The. (See Kinkead, Robert E., assignor.)
Lincoln Electric Company, The. (See Lincoln, James F., assignor.)
Lincoln, Fred S. (See Davis, John A., assignor.)
Lincoln, James F., assignor to The Lincoln Electric Company, Cleveland, Ohio. Arc-welder apparatus. No. 1,329,532; Feb. 3; v. 271; p. 36.
Lincoln Steel and Forge Company. (See Krieger, John T., assignor.)
Lincoln, Ward W., Rock Falls, Ill. Folding wall-rack. No. 1,341,654; June 1; v. 275; p. 8.
Lind, Anna, Bridgeport, Conn. Spring-fan. No. 1,328,172; Jan. 13; v. 270; p. 803.
Lind, Jacob P., Columbus, Ohio. Vehicle-lock. No. 1,337,709; Apr. 20; v. 273; p. 515.
Lind, Otto S., Chicago, Ill. Flying-machine. No. 1,338,025; Apr. 27; v. 273; p. 644.
Lind, Sivert N., Streator, Ill. Line-lock. No. 1,340,851; May 18; v. 274; p. 546.
Lindahl, Anders, Hässleholm, Sweden. Sealing apparatus. No. 1,346,902; July 20; v. 276; p. 431.
Lindahl, Erick P., Pleasant Ridge, assignor to The Icy-Hot Bottle Company, Cincinnati, Ohio. Coating apparatus and coating. No. 1,338,782; May 4; v. 274; p. 25.
Lindahl, Erick P., assignor to The Icy-Hot Bottle Company, Cincinnati, Ohio. Coating apparatus. No. 1,338,940; May 4; v. 274; p. 53.
Lindahl, Erick P., assignor to The Icy-Hot Bottle Company, Cincinnati, Ohio. Method of and apparatus for manufacturing glassware. No. 1,338,941; May 4; v. 274; p. 54.
Lindbarger, Silas C., assignor to The Carborundum Company, Niagara Falls, N. Y. Refractory article and making same. No. 1,345,377; July 6; v. 276; p. 10.
Lindberg, Albin O., assignor of one-fourth to W. H. Padden, Courtenay, N. D. Differential feeding mechanism for mixing-machines. No. 1,332,300; Mar. 2; v. 272; p. 24.
Lindberg, Charles A., assignor to Sturgis Steel Go-Cart Co., Sturgis, Mich. Wheel-lock. No. 1,331,513; Feb. 24; v. 271; p. 526.
Lindberg, Charles A., assignor to Sturgis Steel Go-Cart Company, Sturgis, Mich. Carriage-top. No. 1,338,026; Apr. 27; v. 273; p. 644.
Lindberg, Charles A., assignor to Sturgis Steel Go-Cart Co., Sturgis, Mich. Running-gear for children's carriages and the like. No. 1,339,961; May 11; v. 274; p. 321.
Lindberg, Charles A., assignor to Sturgis Steel Go-Cart Company, Sturgis, Mich. Carriage-top. No. 1,340,279; May 18; v. 274; p. 438.
Lindberg, Charles A., assignor to Sturgis Steel Go-Cart Co., Sturgis, Mich. Wheel-retainer. No. 1,345,545; July 6; v. 276; p. 43.
Lindberg, Charles A., assignor to Sturgis Steel Go-Cart Company, Sturgis, Mich. Wheel-retaining spindle-cap. No. 1,354,114; Sept. 28; v. 278; p. 612.
Lindberg, Charles A., assignor to Sturgis Steel Go-Cart Company, Sturgis, Mich. Running-gear for children's carriages and the like. No. 1,359,261; Nov. 16; v. 280; p. 506.
Lindberg, Johan W., Stockholm, Sweden. Lock. No. 1,329,418; Feb. 3; v. 271; p. 14.
Lindberg, John F., Hibbing, Minn. Barn-door-operating device. No. 1,338,027; Apr. 27; v. 273; p. 645.
Lindblad, Axel R., Stockholm, Sweden. Synthetic production of cyanids and nitrids. No. 1,328,575; Jan. 20; v. 270; p. 417.
Lindblad, Egron A. (See Lindblad, Elis L. and E. A.)
Lindblad, Elis L. and E. A., Stockholm, Sweden. Money-saving clock. No. 1,363,986; Dec. 28; v. 281; p. 729.
Lindbloom, Ralph, St. Paul, Minn. Power transmission. No. 1,340,833; May 18; v. 274; p. 543.
Linde Air Products Company, The. (See Wucherer, R., and Pollitzer, assignors.
Lindeman, James E., Michigan City, Ind. Metallic car-line. No. 1,359,182; Nov. 16; v. 280; p. 491.
Lindeman, Joseph, New York, N. Y. Plastic pile. No. 1,346,222; July 13; v. 276; p. 238.
Lindemann, A. J., & Hoverson Company. (See Lindemann, Albert J. and W. C., assignors.)
Lindemann, A. J., & Hoverson Company. (See Lindemann, Walter C., assignor.)
Lindemann, A. J., & Hoverson Company. (See Wilcox, Lewis T., assignor.)
Lindemann, Albert J. and W. C., assignors to A. J. Lindemann & Hoverson Company, Milwaukee, Wis. Hydrocarbon-burner. No. 1,339,207; May 4; v. 274; p. 103.
Lindemann, Walter C. (See Lindemann, Albert J. and W. C.)
Lindemann, Walter C., assignor to A. J. Lindemann & Hoverson Company, Milwaukee, Wis. Oil heating-stove. No. 1,339,208; May 4; v. 274; p. 103.
Lindemann, William G., assignor to Ozone Company of America, Milwaukee, Wis. Filter. No. 1,362,998; Dec. 21; v. 281; p. 497.
Lindemann, William G., assignor to Ozone Company of America, Milwaukee, Wis. Ozonizing apparatus. No. 1,362,999; Dec. 21; v. 281; p. 497.
Lindemann, William G., assignor to Ozone Company of America, Milwaukee, Wis. Ozonizer. No. 1,363,000; Dec. 21; v. 281; p. 497.
Lindemer, Bernhardt A., West Allis, assignor to Badger Manufacturing Corporation, Milwaukee, Wis. Bolt. No. 1,357,291; Nov. 2; v. 280; p. 18.
Lindemuth, Lewis B., New York, N. Y. Hot-top. No. 1,332,905; Mar. 9; v. 272; p. 191.
Lindemuth, Lewis B., New York, N. Y. Hot-top. No. 1,332,906; Mar. 9; v. 272; p. 191.
Linden, Charles J., Iron Mountain, Mich. Metal road-track. No. 1,350,872; Aug. 24; v. 277; p. 704.
Linden, John P., assignor to Waterbury Clock Co., Waterbury Conn. Locking device. No. 1,343,733; June 15; v. 275; p. 532.
Lindenmuth, Harry D., Fleming, Pa. Bushing-remover. No. 1,342,852; June 8; v. 275; p. 296.
Lindenmuth, Raymond F., Quakake, Pa. Automatic padlock. No. 1,335,586; Mar. 30; v. 272; p. 861.
Lindfors, Victor E., Butte, Mont. Paper box. No. 1,358,006; Nov. 9; v. 280; p. 215.

Digitized by Google

Lindfors, Victor E., assignor of one-half to J. Knuttila, Butte, Mont. Hose or pipe connection. No. 1,331,715; Feb. 24; v. 271; p. 564.

Lindgren, Alexus C., Hamilton, Ontario, Canada, assignor, by mesne assignments, to International Harvester Company. Plow. No. 1,334,548; Mar. 23; v. 272; p. 606.

Lindgren, Alexus C., assignor, by mesne assignments, to International Harvester Company, Hamilton, Ontario, Canada. Cultivator. No. 1,354,315; Sept. 28; v. 278; p. 652.

Lindgren, Bror J., assignor to The Toledo Machine & Tool Company, Toledo, Ohio. Automatic clutch control for power-presses. No. 1,342,965; June 8; v. 275; p. 318.

Lindhe, Roland W., Stockholm, Sweden, assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Clamping-sleeve for ball-bearings and the like. No. 1,334,620; Mar. 23; v. 272; p. 620.

Lindley, Isaac C., Lupton, Mich. Implement attachment for tractors. No. 1,330,198; Feb. 10; v. 271; p. 191.

Lindman, Konrad W., assignor, by mesne assignments, to Nordiska Kullager Aktiebolaget, Gottenborg, Sweden. Ball-holder for ball-bearings. No. 1,329,089; Jan. 27; v. 270; p. 542.

Lindman, Konrad W., Stockholm, assignor, by mesne assignments, to Nordiska Kullager Aktiebolaget, Gottenborg, Sweden. Ball-bearing. No. 1,332,444; Mar. 2; v. 272; p. 52.

Lindman, Konrad W., Stockholm, assignor, by mesne assignments, to Nordiska, Kullager Aktiebolaget, Gottenborg, Sweden. Ball-holder for ball-bearings and manufacturing same. No. 1,346,323; July 13; v. 276; p. 259.

Lindner, Hans, Woodsboro, Tex. Tractor. No. 1,354,618; Oct. 5; v. 279; p. 35.

Lindner, John C., Rochester, N. Y., assignor to General Railway Signal Company, Gates, N. Y. Semaphore-signal-operating mechanism. No. 1,328,381; Jan. 20; v. 270; p. 379.

Lindner, William, Savannah, Ga. Device for supporting window-shades from upper sashes. No. 1,361,891; Dec. 14; v. 281; p. 227.

Lindquist, David E. (See Heiby, C. G., Burkam, Lindquist, Allen, Riggin, and Lau.)

Lindquist, Knut O. W., Chicago, Ill. Leaf-turner. No. 1,327,621; Jan. 13; v. 270; p. 200.

Lindquist, Leonard B., Maida, N. D. Combination rubber stamp and pen-rack. No. 1,338,184; Apr. 27; v. 273; p. 674.

Lindsay, George W., assignor to Denver Fire Clay Company, Denver, Colo. Crane-hinge for muffle-furnace doors. No. 1,346,903; July 20; v. 276; p. 432.

Lindsay, Hamilton, Willoughby, Ohio. Locomotive-stoker. No. 1,347,281; July 20; v. 276; p. 506.

Lindsay, James E., Selma, La. Hose and garment supporter. No. 1,343,514; June 15; v. 275; p. 489.

Lindsay, John H., Brooklyn, N. Y. Water-seal vacuum-valve. No. 1,353,767; Sept. 21; v. 278; p. 498.

Lindsay, Joseph G., Bartlesville, Okla. Casing-shoe. No. 1,363,987; Dec. 28; v. 281; p. 729.

Lindsay Light Company. (See Berndt, Otto N., assignor.)

Lindsay Light Company. (See Ryan, Lonnie W., assignor.)

Lindsay, William, Chicago, Ill. Agitating device. No. 1,328,576; Jan. 20; v. 270; p. 417.

Lindsay, William G., Newark, N. J., assignor to The Celluloid Company. Acetyl cellulose and making same. No. 1,338,661; Apr. 27; v. 273; p. 763.

Lindsay, William S., Newport, Vt. Fuel and air supplying apparatus. No. 1,349,465; Aug. 10; v. 277; p. 312.

Lindström, Arvid, Wästerås, Sweden. Insulating and cooling means for transformers. No. 1,334,041; Mar. 16; v. 272; p. 466.

Lindström, Carl, Berlin, Germany. Stamp-affixing machine. No. 1,329,090; Jan. 27; v. 270; p. 542.

Lindström, Charles A., assignor to Pressed Steel Car Company, Pittsburgh, Pa. Tank-valve and discharge-pipe. No. 1,335,445; Mar. 30; v. 272; p. 835.

Lindstrom, Charles J., Clinton, Mo. Safety-guard. No. 1,354,048; Sept. 28; v. 278; p. 598.

Lindstrom, Frank L., Bridgeport, Conn. Toy dump-wagon. No. 1,334,544; Mar. 23; v. 272; p. 606.

Lindstrom, Frank L., Bridgeport, Conn. Spring-movement for toy vehicles. No. 1,339,934; May 11; v. 274; p. 316.

Lindstrom, John T. (See Deiley, Harvey R., assignor.)

Lindstrom, John T., Allentown, and H. R. Deiley, Bethlehem, Pa.; said Deiley assignor to said Lindstrom. Direction-indicator. No. 1,351,774; Sept. 7; v. 278; p. 11.

Lindstrom, Nils C., Nutley, and C. F. E. Olofson, Hilton, N. J., assignors to A. B. See, Brooklyn, N. Y. Electric elevators. No. 1,360,420; Nov. 30; v. 280; p. 849.

Line Carrying Buoy Company. (See Crouch, William S., assignor.)

Line Drive Tractor, The. (See Jessen, James, assignor.)

Lineback, Thomas J., St. Louis, Mo. Holder for thread and the like. No. 1,363,255; Dec. 28; v. 281; p. 588.

Linebarger, Charles E., Chicago, Ill. Battery-temperature controller. No. 1,363,889; Dec. 28; v. 281; p. 710.

Linebaugh, Jesse J., Schenectady, N. Y., assignor to General Electric Company. Barrier or arc-deflector for dynamo-electric machines or the like. No. 1,331,936; Feb. 24; v. 271; p. 606.

Linebaugh, Jesse J., Schenectady, N. Y., assignor to General Electric Company. Protective device. No. 1,334,869; Mar. 23; v. 272; p. 668.

Lineham, Wilfrid J., deceased, Lee, England; R. S. Weddell, executrix. Thrust abutment for lead-screws. No. 1,330,881; Feb. 17; v. 271; p. 387.

Linehan, Daniel J., Chicopee, Mass. Traffic-signal. No. 1,338,028; Apr. 27; v. 273; p. 645.

Liner, Joseph I., Demarest, N. J., assignor to The Costimeter Company, Detroit, Mich. Elapsed-time recorder. No. 1,332,907; Mar. 9; v. 272; p. 191.

Lines, Fannette O., Mount Pleasant, Iowa. Headrest. No. 1,349,072; Aug. 10; v. 277; p. 34.

Lines, Jesse, Sabetha, Kans. Auto attachment. No. 1,336,305; Apr. 6; v. 273; p. 118.

Linga, Torbjörn, Winthrop Harbor, Ill. Carbureter. No. 1,345,546; July 6; v. 276; p. 43.

Lingle, George W., Silver Lake, Wis., assignor of two-fifths to W. O. Carney, Chicago, Ill. Wheel-rim and sprocket-teeth therefor. No. 1,327,107; Jan. 6; v. 270; p. 43.

Lingle, Victor A., Lewisburg, Pa. Coil-box. No. 1,353,116; Sept. 14; v. 278; p. 309.

Link, Anton, Chicago, Ill. Clamp. No. 1,339,830; May 11; v. 274; p. 297.

Link, Anton, Chicago, Ill. Mop. No. 1,349,680; Aug. 17; v. 277; p. 428.

Link-Belt Company. (See Cochrane, Harry P., assignor.)

Link-Belt Company. (See Hetzel, Frederic V., assignor.)

Link-Belt Company. (See MacLennan, Joseph A., assignor.)

Link-Belt Company. (See Oakes, Frank J., assignor.)

Link-Belt Company. (See Pratt, Howell D., assignor.)

Link-Belt Company. (See Sayers, Albert J., assignor.)

Link-Belt Company. (See Spaulding, Fenton J., assignor.)

Link, Louis, New York, N. Y. Lens-mounting. No. 1,328,441; Jan. 20; v. 270; p. 390.

Link, Manfred W., Seattle, Wash. Radius-rod for automobiles. No. 1,335,513; Mar. 30; v. 272; p. 848.

Link, Manfred W., Seattle, Wash. Front radius-rod for automobiles. No. 1,335,514; Mar. 30; v. 272; p. 848.

Link, William, assignor of one-half to J. R. Caldwell, Upper Sandusky, Ohio. Animal poke or halter. No. 1,335,118; Mar. 30; v. 272; p. 775.

Link, William, Tulsa, Okla., assignor of one-third to O. G. Allison and one-third to M. Hurst, Kansas City, Mo. Diestock. No. 1,354,316; Sept. 28; v. 278; p. 652.

Linke, Victor F., West New York, N. J. Theater-chair. No. 1,336,641; Apr. 13; v. 273; p. 236.

Linley, Charles M., London, England. Apparatus for playing a game of skill with a captive ball. No. 1,345,789; July 6; v. 276; p. 91.

Linn, Herbert R., Buffalo, N. Y. Type-holder. No. 1,362,496; Dec. 14; v. 281; p. 348.

Linn, John, *et al.* (See Harp, William I., assignor.)

Linnemeyer, Frederick W., *et al.* (See Milligan, Rockwell M., assignor.)

Linnett, Edgar B., Newark, assignor to Linnett & Schwarz, Irvington, N. J. Trunk-follower. No. 1,358,223; Nov. 9; v. 280; p. 258.

Linnett & Schwarz. (See Linnett, Edgar B., assignor.)

Linograph Company, The. (See Peterson, Hans, assignor.)

Linotype and Machinery Limited. (See Billington, John E., assignor.)

Linotype and Machinery Limited. (See George, C. L., and Hart, assignors.)

Linsley, Raymond B. (See Thompson, Harry E., Linsley, and Rix.)

Linss, John D., Oklahoma, Okla. Smokehouse. No. 1,354,317; Sept. 28; v. 278; p. 652.

Lintern, John B., Cleveland, Ohio. Sanding device. No. 1,352,206; Sept. 7; v. 278; p. 94.

Lintern, William, Cleveland, Ohio. Sanding device. No. 1,352,205; Sept. 7; v. 278; p. 94.

Linton, Jesse, Philadelphia, Pa. Dish-washer. No. 1,354,049; Sept. 28; v. 278; p. 598.

Linz, Arthur, assignor to Ultro Chemical Corporation, New York, N. Y. Colors. No. 1,358,007; Nov. 9; v. 289; v. 216.

Lionne, Ernest, Needham, assignor of one-fourth to A. E. Reinhardt, Lynn, one-fourth to W. J. DeWitt, and one-fourth to S. J. Heinrich, Newton, Mass. Protecting-covering for boots and shoes and other articles and preparing same. No. 1,339,462; May 11; v. 274; p. 227.

Lloud, Frank, assignor to La Societe Le Coke Industriel (Societe Anonyme), St. Etienne, Loire, France. Apparatus for the recuperation of waste fuel. No. 1,334,765; Mar. 23; v. 272; p. 647.

Lipar, Frank, Trommald, Minn. Cuspidor. No. 1,345,609; July 6; v. 276; p. 55.

Lipcsey, Frank L. (See MacKillican, J. A., and Lipcsey.)

Lipman, Jacob G., New Brunswick, N. J. Sulfur composition. No. 1,361,596; Dec. 7; v. 281; p. 125.

Lipman, Jacob G., New Brunswick, N. J. Phosphate composition. No. 1,361,597; Dec. 7; v. 281; p. 125.

Lipner, Abe, Indiana Harbor, Ind. Tailor's implement. No. 1,346,832; July 20; v. 276; p. 418.

Digitized by Google

Lippen, Jonathan K., assignor to Postum Cereal Company, Battle Creek, Mich. Solid soluble beverage extract and manufacturing same. No. 1,338,231; Apr. 27; v. 273; p. 688.
Lippert-Bruenauer, Otto A. J. R., Chicago, Ill. Shaft-hanger. No. 1,361,474; Dec. 7; v. 281; p. 100.
Lippert, Edward, New York, N. Y. Tooth brush and paste holder. No. 1,335,250; Mar. 30; v. 272; p. 798.
Lippert, Samuel, East Cleveland, Ohio. Condensing and vacuum pump. No. 1,339,402; May 11; v. 274; p. 215.
Lippert, Samuel, East Cleveland, Ohio. Thermostatic heat-regulator. No. 1,342,062; June 1; v. 275; p. 86.
Lippert, Samuel, Cleveland, Ohio. Thermally-controlled float. No. 1,345,938; July 6; v. 276; p. 121.
Lippert, William, Kenosha, Wis., assignor to H. Richardson, Chicago, Ill. Wire fabric. No. 1,329,782; Feb. 3; v. 271; p. 81.
Lippincott, Carrie A. (See Lippincott, John W., assignor.)
Lippincott, Fisher H., Philadelphia, Pa. Variable-speed clutch. No. 1,327,767; Jan. 13; v. 270; p. 227.
Lippincott, Heulings, *et al.* (See Laussucq, Henri, P. L., assignor.)
Lippincott, Heulings, *et al.*, receivers. (See Laussucq, Henri P. L., assignor.)
Lippincott, John W., assignor of one-half to C. A. Lippincott, Little Rock, Ark. Swimming-course. No. 1,331,270; Feb. 17; v. 271; p. 460.
Lippincott, Roy A., and E. F. Billson, Melbourne, Victoria, Australia. Fastener for hinged structures. (Reissue.) No. 14,793; Jan. 20; v. 270; p. 458.
Lipps, Emory J., Fountain Hill borough, Pa. Spool. No. 1,359,081; Nov. 16; v. 280; p. 472.
Lippitt, Elihu, Cleveland, Ohio, assignor of one-third to H. J. Huntington and one-third to S. W. Lippitt. Knitting-machine. No. 1,339,708; May 11; v. 274; p. 274.
Lippitt, Sargent V. L., San Juan, Porto Rico. Apparatus for separating fiber. No. 1,327,484; Jan. 6; v. 270; p. 112.
Lippitt, Stephen W., *et al.* (See Lippitt, Elihu, assignor.)
Lipps, Evrah C., assignor to Packard Motor Car Company, Detroit, Mich. Metal-welding. No. 1,342,717; June 8; v. 275; p. 268.
Lipps, Morris, New York, N. Y. Headrest. No. 1,349,073; Aug. 10; v. 277; p. 235.
Lips, Henricus J. J. M. (See Eras, V. J. M., and Lips.)
Lipshitz, Benjamin, Brooklyn, N. Y. Combination bedstead and wardrobe. No. 1,338,741; May 4; v. 274; p. 17.
Lipshutz, Joseph, *et al.* (See Brown, Albert, assignor.)
Liptak, Michael, St. Paul, Minn. Fire-arch for boilers. No. 1,347,514; July 27; v. 276; p. 609.
Lisenby Manufacturing Company. (See Livermore, John W., assignor.)
Lisenby Manufacturing Company. (See Quade, Frank H., Jr., assignor.)
Lish, Carl J., Louisville, Ky. Photographic-printing frame. No. 1,353,922; Sept. 28; v. 278; p. 572.
Lisowski, Maryan L., Cranford, N. J. Apparatus for forming concrete fabrics. No. 1,330,126; Feb. 10; v. 271; p. 178.
Lispenard, George, Brooklyn, assignor to H. & F. Match Machine Corporation, New York, N. Y. Match-machine attachment. No. 1,336,244; Apr. 6; v. 273; p. 102.
Lispenard, George, Brooklyn, assignor to H. & F. Match Machine Corporation, New York, N. Y. Match-boxing attachment. No. 1,336,245; Apr. 6; v. 273; p. 102.
Lispenard, George, Brooklyn, assignor to H. & F. Match Machine Corporation, New York, N. Y. Registering attachment for match-machine. No. 1,336,246; Apr. 6; v. 273; p. 102.
Lispenard, George, Brooklyn, assignor to H. & F. Match Machine Corporation, New York, N. Y. Pin-gates for match-machine hoppers. No. 1,336,247; Apr. 6; v. 273; p. 103.
Lissauer, Adolph W., assignor to W. L. Fleisher & Co. Inc., New York, N. Y. Humidifying apparatus. No. 1,338,855; Mar. 16; v. 272; p. 430.
Lissauer, Adolph W., W. L. Fleisher, and R. E. Keyes, assignors to American Drying Processes, Inc., New York, N. Y. Desiccation. No. 1,339,115; May 4; v. 274; p. 87.
List, Frank X., assignor to National Card Mounting Company, New York, N. Y. Display-box. No. 1,361,882; Dec. 14; v. 281; p. 227.
Lister, Charles H., North St. Paul, Minn. Inclined elevator. No. 1,330,813; Feb. 17; v. 271; p. 374.
Lister, Charles H., North St. Paul, Minn. Gravity carrier. No. 1,348,500; Aug. 3; v. 277; p. 72.
Lister, Charles H., North St. Paul, Minn. Bearing for conveyer-roller. No. 1,351,481; Aug. 31; v. 277; p. 887.
Lister, John T. (See Fording, William G., assignor.)
Lister, John T., Cleveland, Ohio. Tire. No. 1,355,986; 19; v. 279; p. 394.
Litchfield, Charles T., assignor to W. B. Gerard and G. C. Jackman, Spokane, Wash. Synchronizing and regulating mechanism for combination steam and explosion engines. No. 1,349,619; Aug. 17; v. 277; p. 416.
Litchfield, Henry L., Waterloo, Iowa. Combination manure and straw spreader. No. 1,347,583; July 27; v. 276; p. 623.
Litchfield, Isaac W., Newtonville, Mass. Wrench. No. 1,345,202; June 29; v. 275; p. 948.
Litchfield, Isaac W., Newtonville, assignor to Litchfield Linoplate Co., Boston, Mass. Printing-plate and making same. No. 1,351,954; Sept. 7; v. 278; p. 48.
Litchfield Linoplate Co. (See Litchfield, Isaac W., assignor.)
Litchfield, Norman, Pelham Manor, assignor to American Car and Foundry Company, New York, N. Y. Folding seat. No. 1,354,911; Oct. 5; v. 279; p. 93.
Litchfield Shuttle Company. (See Cheney, G. M., and Harwood, assignors.)
Litke, John. (See Foster, U. D., and Litke.)
Littell, Earl M., Indianapolis, Ind. Antiskid-sander for automobiles. No. 1,338,640; Apr. 27; v. 273; p. 759.
Litten, Ira E., Orange, Calif. Trailer connection. No. 1,356,076; Oct. 19; v. 279; p. 412.
Littig, Charles R., Chicago, Ill. Safety device for baling-presses. No. 1,353,252; Sept. 21; v. 278; p. 395.
Little, A. E., Company. (See Howard, Merton W., assignor.)
Little, Arthur D., Inc. (See Stevenson, Earl P., assignor.)
Little, Arthur D., Incorporated. (See Swett, Charles E., assignor.)
Little, Charles H., Cleveland, Ohio. Method of and material for making drawings and other records. No. 1,343,978; June 22; v. 275; p. 646.
Little, Dallas T. (See Smith, Daniel H., assignor.)
Little, David W. (See Carter, Joseph, assignor.)
Little, Edward M., assignor to Hoover Spring Company, San Francisco, Calif. Apparatus for manufacturing vehicle bumper-bars. No. 1,354,770; Oct. 5; v. 279; p. 65.
Little, George M., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Arc-lamp. No. 1,333,665; Mar. 16; v. 272; p. 395.
Little, James T., Missoula, Mont. Door-stop. No. 1,333,499; Mar. 9; v. 272; p. 208.
Little, Kenneth C. (See Donald, William H., assignor.)
Little, Lenard, Gainesville, Ga. Drain cut-off. No. 1,327,831; Jan. 13; v. 270; p. 239.
Little, Lillian A. (See Bowen, Philip A., assignor.)
Little, Robert H., assignor to U. S. Sanitary Specialties Corporation, Chicago, Ill. Dispensing-machine. No. 1,345,865; July 6; v. 276; p. 105.
Little, Thomas P., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Guide for calenders. No. 1,340,234; May 18; v. 274; p. 430.
Little, Thomas R., Liverpool, England. Steel or iron structural work. No. 1,328,841; Jan. 27; v. 270; p. 495.
Little, William F., St. Louis, Mo., assignor to Electric Vapor Heater Company, Wilmington, Del. Electric vapor-heater for internal-combustion engines. No. 1,344,303; June 22; v. 275; p. 709.
Littlefield, Augustine F., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Welt-beating machine. No. 1,356,536; Oct. 26; v. 279; p. 550.
Littlefield, Augustine F., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Rigid-bottom collapsible last. No. 1,359,610; Nov. 23; v. 280; p. 621.
Littlefield, Augustine F., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Rigid-bottom collapsible last. No. 1,359,611; Nov. 23; v. 280; p. 621.
Littlefield, Edgar E., Seattle, Wash. Apparatus for automatic actuation of mechanisms. No. 1,335,380; Mar. 30; v. 272; p. 824.
Littlefield, Edgar E., Seattle, Wash. Apparatus for electrically charging fluids. No. 1,360,654; Nov. 30; v. 280; p. 896.
Littlejohn, Thomas F., Plano, Tex. Dental impression-tray. No. 1,351,108; Aug. 31; v. 277; p. 812.
Littlehales, W. W. (See Weary, John, assignor.)
Littler, James H., assignor to S. Cheney & Son, Manlius, N. Y. Variable-speed clutch-pulley. No. 1,330,080; Feb. 10; v. 271; p. 169.
Littman, Zeno, New York, N. Y. Valve. No. 1,359,183; Nov. 16; v. 280; p. 491.
Littman, Zeno, New York, N. Y., assignor to Wasson Piston Ring Company, Inc., of New Brunswick, N. J. Grinding-machine. No. 1,361,883; Dec. 14; v. 281; p. 227.
Litzinger, Lewis P., P. F. Conerty, Butler, and W. Snodgrass, Bruin, Pa. Aerial condenser. No. 1,349,681; Aug. 17; v. 277; p. 428.
Lively, Benjamin F., Lenoir City, Tenn., assignor of one-half to R. C. Dudley, Chicago, Ill. Car-roof. No. 1,351,256; Aug. 31; v. 277; p. 842.
Lively, Page, Phoenix, Ariz., and R. J. Steil, Los Angeles, Calif. Demountable wheel. No. 1,361,076; Dec. 7; v. 281; p. 19.
Livengood, Winfield S., assignor to A. A. Kramer, Kansas City, Mo. Valve. No. 1,351,109; Aug. 31; v. 277; p. 812.
Livens, Frederick H. (See Green, Wans, and Livens.)
Livens, Frederick H., Lincoln, and W. H. Livens, London, England. Gas-projectile. No. 1,335,343; Mar. 30; v. 272; p. 817.
Livens, William H. (See Livens, Frederick H. and W. H.)

Digitized by Google

Alphabetical list of patentees—Continued.

Livensparger, Daniel A., Battle Creek, Mich., assignor to Green Engineering Company, East Chicago, Ind. Ash-conveying system. No. 1,339,209; May 4; v. 274; p. 104.
Livering, Charles J., St. Petersburg, Fla. Jack. No. 1,343,872; June 15; v. 275; p. 561.
Livermore, John W., assignor to Lisenby Manufacturing Company, Fresno, Calif. Tractor. No. 1,343,979; June 22; v. 275; p. 646.
Livermore, John W., assignor of one-half to Lisenby Manufacturing Company, Fresno, Calif. Tractor. No. 1,363,330; Dec. 28; v. 281; p. 602.
Livermore, John W., assignor of one-half to Lisenby Manufacturing Company, Fresno, Calif. Air-cleaner. No. 1,363,331; Dec. 28; v. 281; p. 602.
Livesay, Everett G., Princeton, assignor, by mesne assignments, to Safety Mail Crane Company, Charleston, W. Va. Mail-bag crane. No. 1,344,912; June 29; v. 275; p. 893.
Livingston, Charles F., and E. E. Lordge, San Jose, Calif. Automobile-signal. No. 1,353,253; Sept. 21; v. 278; p. 395.
Livingston, D. M., *et al.* (See Pokorny, Frank, Jr., assignor.)
Livingston, D. McRa, *et al.* (See Pokorny, Frank, Jr., assignor.)
Livingston, D McRa, New York, N. Y. Radiator. (Reissue.) No. 14,826; Mar. 30; v. 272; p. 887.
Livingston, John G. (See Newton, William J., assignor.)
Livingston, Raymond W., Springfield, Mass. Support for electric-flash-lamp cases. No. 1,363,664; Dec. 28; v. 281; p. 666.
Livingston, S. W. (See Gold, Samuel B., assignor.)
Livingston, Stanley D., Meriden, Conn., assignor to The Connecticut Telephone & Electric Company, Incorporated. Electric-switch lock. No. 1,339,267; May 4; v. 274; p. 114.
Livingston, Stanley D., and C. E. Stahl, assignors to The Connecticut Telephone & Electric Company, Incorporated, Meriden, Conn. Lock mechanism. No. 1,343,187; June 8; v. 275; p. 362.
Livingstone, Frank M., assignor to Fuel Economy Company, Springfield, Mass. Gaseous mixer device. No. 1,345,791; July 6; v. 276; p. 91.
Livingstone, George M. (See Schaefer, P. C., Hulse, and Livingstone.)
Lizzi, Alfonso, Brooklyn, N. Y. Doll. No. 1,332,782; Mar. 2; v. 272; p. 106.
Ljungström, Birger, Stockholm, and F. Ljungström, Finspong, assignors to Aktiebolaget Ljungströms Ångturbin, Stockholm, Sweden. Air-pump for evacuating air from condensers, refrigerating plants, and the like. No. 1,343,922; June 22; v. 275; p. 635.
Ljungström, Birger, Stockholm, assignor to Aktiebolaget Ljungströms Ångturbin, Lidingö-Brevik, Sweden. Spiral-cut gear-wheel. No. 1,343,923; June 22; v. 275; p. 636.
Ljungström, Birger, Stockholm, Sweden, assignor to Aktiebolaget Ljungströms Angturbin. Means for securing turbine-motors to their shafts. No. 1,347,343; July 20; v. 276; p. 519.
Ljungström, Fredrick. (See Ljungström, B. and F.)
Ljungström, Fredrik, Brevik, Lidingön, assignor to Aktiebolaget Ljungströms Ångturbin, Stockholm, Sweden. Condensing apparatus. No. 1,330,081; Feb. 10; v. 271; p. 169.
Ljungström, Frederik, Brevik, Lidingön, Sweden. Axial-flow turbine. No. 1,341,273; May 25; v. 274; p. 699.
Ljungström, Fredrik, Brevik, Lidingön, assignor to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden. Means for securing turbine-rotors to their shafts. No. 1,347,344; July 20; v. 276; p. 519.
Ljungström, Fredrik, Brevik, Lidingön, Sweden, assignor to Aktiebolaget Ljungströms Angturbin, Skarsatra, Sweden. Cooling idle-running turbines. No. 1,359,902; Nov. 23; v. 280; p. 679.
Ljungström, Fredrik, Brevik, and I. Broberg, Skarsatra, Lidington, assignors to Aktiebolaget Ljungstroms Angturbin, Stockholm, Sweden. Air-preheater for locomotives and the like. No. 1,360,546; Nov. 30; v. 280; p. 874.
Ljungström, Fredrik, Brevik, Lidingön, Sweden. Lath for boat-sails. No. 1,362,950; Dec. 21; v. 281; p. 487.
Lleó, Alberto, and C. Baradal, Barcelona, Spain. Internal-combustion engine. No. 1,355,484; Oct. 12; v. 279; p. 257.
Lleó, Alberto, and C. Baradat, Barcelona, Spain. Multi-cylinder internal-combustion engine. No. 1,355,485; Oct. 12; v. 279; p. 257.
Llera, Felix F. (See Elias and Llera.)
Lloid, Benjamin, Corvallis, Idaho. Truss. No. 1,338,991; May 4; v. 274; p. 63.
Lloyd, Charles E. H., Los Angeles, Calif. Lubricating mechanism. No. 1,329,717; Feb. 3; v. 271; p. 69.
Lloyd, Converse W., Chicago, Ill., assignor to The Sani-Fold Company of California. Folding toothbrush. No. 1,345,939; July 6; v. 276; p. 121.
Lloyd, Harry S. (See Bullock, S. M., and Lloyd.)
Lloyd, John H., Lebanon, Pa. Combined turnbuckle and sleeve-nut. No. 1,360,421; Nov. 30; v. 280; p. 849.
Lloyd, John U., Cincinnati, Ohio. Percolating and concentrating apparatus. No. 1,332,908; Mar. 9; v. 272; p. 191.
Lloyd, Marshall B., Menominee, Mich. Method of and means for binding the edges of reed fabric and the like. No. 1,336,571; Apr. 13; v. 273; p. 223.
Lloyd, Marshall B., Menominee, Mich. Method and means for producing woven reed articles. No. 1,339,063; May 4; v. 274; p. 77.
Lloyd, Marshall B., Menominee, Mich. Apparatus for producing woven reed articles. No. 1,339,064; May 4; v. 274; p. 78.
Lloyd, Richard L., Minneapolis, Minn. Game. No. 1,348,817; Aug. 3; v. 277; p. 132.
Lloyd, Richard L., Minneapolis, Minn. Household dairy-indicator. No. 1,354,983; Oct. 5; v. 279; p. 106.
Lloyd, William, Drifton, Pa. Automatic stoker. No. 1,330,041; Feb. 3; v. 271; p. 130.
Lloyd, William, Hazleton, asignor to Coxe Travelling Grate Company, Port Carbon, Pa. Furnace. No. 1,340,549; May 18; v. 274; p. 490.
Lloyd, William, Hazleton, Pa. Furnace. No. 1,340,725; May 18; v. 274; p. 523.
Lloyd, William Hazleton, assignor to Coxe Traveling Grate Company, Port Carbon, Pa. Traveling grate. No. 1,357,786; Nov. 2; v. 280; p. 111.
Lloyd, William T. (See Dolan and Miller, assignors.)
Lloyd, Winfield S. (See Zeitler, Mary S., and Lloyd.)
Loadometer Company, The. (See Troll, Frederick J., assignor.)
Lobar, Abraham J., assignor to Joseph E. Sloe, New York, N. Y. Garment-hanger. No. 1,338,783; May 4; v. 274; p. 25.
Lobe, N. B., & Co. (See Norwood, Harry G., assignor.)
Lober, George H., assignor to The Lober Radiator & Manufacturing Company, Toledo, Ohio. Radiator. No. 1,357,880; Nov. 2; v. 280; p. 129.
Lober Radiator & Manufacturing Company, The. (See Lober, George H., assignor.)
Lobl, Frederick, Boston, Mass. Disinfectant and odorizer. No. 1,340,661; May 18; v. 274; p. 511.
Lobl, Frederick, Middleboro, Mass. Inhaler. No. 1,340,662; May 18; v. 274; p. 511.
Lobsitz, George A. (See Bateman, Samuel L., assignor.)
Locarni, Vittorio, assignor to Società Anonima Italiana Gio. Ansaldo & C., Genoa, Italy. Means for the automatic equilibrium of floating cranes. No. 1,343,630; June 15; v. 275; p. 512.
Lo Casto, Antonino, Chicago, Ill. Changeable exhibitor. No. 1,344,642; June 29; v. 275; p. 841.
Lochner, Adam F., Chandler, Okla. Attachment for cooking utensils. No. 1,326,942; Jan. 6; v. 270; p. 12.
Lochner, Albert T., assignor to Wodack Electric Tool Corporation, Chicago, Ill. Power-hammer. No. 1,356,297; Oct. 19; v. 279; p. 457.
Lock Pocket Garment Company. (See Hjelm, Alfred, assignor.)
Lock Stub Check Company. (See Potter, Thomas R. F., assignor.)
Lockard, James S., Landrum, S. C. Wagon-brake. No. 1,336,909; Apr. 13; v. 273; p. 289.
Lockard, Marcus M., Meridian, Miss. Canning apparatus. No. 1,335,587; Mar. 30; v. 272; p. 861.
Lockart, Andrew B., Redlands, Calif. Valve-spring compressor. (Reissue.) No. 14,845; Apr. 20; v. 273; p. 569.
Locke, Edwin A., Jr., Everett, assignor to P. R. Warren Company, Boston, Mass. Paper box. No. 1,330,946; Feb. 17; v. 271; p. 400.
Locke Insulator Mfg. Co., The. (See Goddard, Walter T., assignor.) (Reissue.)
Locke, Leslie L., Washington, D. C. Folding portable ironing-board. No. 1,339,831; May 11; v. 274; p. 297.
Locke, William C. (See Dreyling, A., and Locke.)
Lockett, Mary F., Marion, Iowa. Spark and soot collector. No. 1,330,272; Feb. 10; v. 271; p. 204.
Lockewitz, Arthur E. C. and E. W. M., Bloomington, Ill. Spark-plug. No. 1,339,463; May 11; v. 274; p. 227.
Lockewitz, Edward W. M. (See Lockewitz, Arthur E. C. and E. W. M.)
Lockey, George B., and A. F. Lawson, Pittsburgh, Pa. Thread-gage. No. 1,337,018; Apr. 13; v. 273; p. 309.
Lockhart, Frederick R., and H. J. Ord, assignors to F. M. Beesley, Toronto, Ontario, Canada. Motion-picture-film-feed mechanism. No. 1,328,382; Jan. 20; v. 270; p. 379.
Lockhart, Frederick R., and H. G. Ord, assignors to F. M. Beesley, Toronto, Ontario, Canada. Motion-picture projector. No. 1,330,040; Feb. 3; v. 271; p. 130.
Lockhart, George, New York, N. Y. Submarine. No. 1,363,01; Dec. 21; v. 281; p. 498.
Lockhart, George W., Wellington, Ill. Harrow attachment for disk harrows. No. 1,332,049; Feb. 24; v. 271; p. 628.
Lockhart, Harold J., assignor to The Parkersburg Rig & Reel Company, Parkersburg, W. Va. Bull-wheel. No. 1,333,122; Mar. 9; v. 272; p. 232.
Lockhart, Harold J., Parkersburg, W. Va. Gearing for use in oil-well-drilling machines. No. 1,338,455; Apr. 27; v. 273; p. 725.

Digitized by Google

Lockhart, Harold J., Parkersburg, W. Va. Band-wheel construction. No. 1,339,852; May 11; v. 274; p. 301.
Lockhart, Joseph C., Wellington, Kans. Liquid-fuel burner. No. 1,344,414; June 22; v. 275; p. 731.
Lockhart, Luther B., Atlanta, Ga. Composition of matter for lubricating steam-cylinders and the like. No. 1,330,882; Feb. 17; v. 271; p. 388.
Locklin, Harley A., assignor to Enterprise Bed Company, Hammond, Ind. Bunk-bed. No. 1,357,787; Nov. 2; v. 280; p. 112.
Lockney, Thomas F. (See Walthers, Frederick W., assignor.)
Lockton, Frank B., and C. E. Christophel, Pearl River, N. Y. Universal joint or coupling. No. 1,354,912; Oct. 5; v. 279; p. 93.
Lockwood, Alfred A., Merton Park, England. Separation of ores. No. 1,329,127; Jan. 27; v. 270; p. 549.
Lockwood, Burns D., Bellevue, and G. A. Suckfield, Avalon, assignors to Pressed Steel Car Company, Pittsburgh, Pa. Car-coupling. No. 1,348,501; Aug. 3; v. 277; p. 72.
Lockwood, Burns D., Bellevue, assignor to Pressed Steel Car Company, Pittsburgh, Pa. Die. No. 1,351,048; Aug. 31; v. 277; p. 801.
Lockwood, Burns D., Bellevue, assignor to Pressed Steel Car Company, Pittsburgh, Pa. Tank-car construction. No. 1,352,981; Sept. 14; v. 278; p. 283.
Lockwood, Burns D., Bellvue, and J. F. Streib, Avalon, Pa., assignors to Pressed Steel Car Company, Pittsburgh, Pa. Car-truck. No. 1,358,320; Nov. 9; v. 280; p. 277.
Lockwood, Lee W., Minneapolis Minn. Combined rain and glare guard for the windshields of automobiles. No. 1,339,770; May 11; v. 274; p. 285.
Lockwood, Nelson A., Ogden, Utah. Knife-setting appliance. No. 1,339,210; May 4; v. 274; p. 104.
Lockwood, Ralph G., *et al.* (See Boswell, George G. F., assignor.)
Lockwood, Virgil H., *et al.* (See Boswell, George G. F., assignor.)
Locomobile Company, The. (See Alborn, Frans G., assignor.)
Locomobile Company, The. (See Riker, Andrew L., assignor.)
Locomobile Company, The. (See Roos, Delmar G., assignor.)
Locomobile Company, The. (See Rosner, Adolph, assignor.)
Locomobile Company of America, The. (See Gronquist, Carl G., assignor.)
Locomobile Company of America, The. (See Roos, Delmar G., assignor.)
Locomobile Company of America, The. (See Walter, Henry C., assignor.)
Locomotive Firebox Company. (See Nicholson, John L., assignor.)
Locomotive Pulverized Fuel Company. (See Caracristi, Virginius Z., assignor.)
Locomotive Stoker Co. (See Crawford, D. F., and Kusebauch, assignors.)
Locomotive Stoker Company. (See Crawford, David F., assignor.)
Locomotive Stoker Company. (See Kusebauch, Anton K., assignor.)
Locomotive Stoker Company. (See Lower, Nathan M., assignor.)
Locomotive Superheater Company. (See Brandt, C. A. W., and Langelier, assignors.)
Locomotive Superheater Company. (See Broido, Benjamin, assignor.)
Locomotive Superheater Company. (See Hilferty, Charles D., assignor.)
Locomotive Superheater Company. (See Keyes, Joseph A., assignor.)
Locomotive Superheater Company. (See Mourne, John E., assignor.)
Locomotive Superheater Company. (See Schmidt, Wilhelm, assignor.)
Loder, Charles C., assignor of one-third to W. P. Anderson and one-third to R. K. Leblond, Cincinnati, Ohio. Mechanical stoker. No. 1,329,617; Feb. 3; v. 271; p. 51.
Lodge Fume Company, Limited, The. (See Lodge, Lionel, assignor.)
Lodge, Lionel, assignor to The Lodge Fume Company, Limited, Birmingham, England. Electrical deposition of particles from gases. No. 1,345,790; July 6; v. 276; p. 91.
Lodien, Alberto. (See Calataynd and Lodien.)
Loe, Syver, Minneapolis, Minn. Transmission mechanism. No. 1,349,074; Aug. 10; v. 277; p. 235.
Loeb, Henry, *et al.* (See McNerny, Clyde J., assignor.)
Loeb, Rudolf, Jenkintown, Pa. Guide for fabrics being hemmed. No. 1,357,065; Oct. 26; v. 279; p. 654.
Loeb-Strongson Corporation. (See Strongson, Herman L., assignor.)
Loeben, Gustave A., Philadelphia, Pa., assignor to The De Luxe Brush Company, Wilmington, Del. Cover for brushes. No. 1,341,329; May 25; v. 274; p. 710.
Loeber, Edgar O., Cleveland, Ohio. Receptacle. No. 1,358,380; Nov. 9; v. 280; p. 290.
Loeffelholz, Mike C., Noble, Okla. Mixer. No. 1,333,856; Mar. 16; v. 272; p. 430.
Loeffler, William, Sheboygan, Wis. Chair-iron. No. 1,334,660; Mar. 23; v. 272; p. 627.
Loeffler, John, St. Louis, Mo. Vegetable-cutter. No. 1,353,484; Sept. 21; v. 278; p. 441.
Loehr, William, Bloomington, Calif. Treating fibrous plants for the recovery of fiber. No. 1,330,127; Feb. 10; v. 271; p. 178.
Loening, Grover C., Boston, assignor to Sturtevant Aeroplane Company, Jamaica Plain, Mass. Aeroplane-truck. No. 1,357,177; Oct. 26; v. 279; p. 675.
Loeper, Joseph J., Camp Meade, Md. Mechanical movement. No. 1,329,783; Feb. 3; v. 271; p. 81.
Loepsinger, Albert J., Providence, R. I., assignor to General Fire Extinguisher Company, New York, N. Y. Sealing glass bulbs. No. 1,328,530; Jan. 20; v. 270; p. 408.
Loetscher, Alvin A., assignor of one-half to G. Georgilas, Billings, Mont. Automatic fuel-mixture regulator. No. 1,350,976; Aug. 24; v. 277; p. 724.
Loetscher, Alvin A., assignor of one-half to G. Georgilas, Billings, Mont. Automatic electric fuel-mixture regulator. No. 1,360,547; Nov. 30; v. 280; p. 274.
Loeven, William, Chicago, Ill. Wrench. No. 1,338,313; Apr. 27; v. 273; p. 698.
Loewenberg, William B., Converse, Ind. Basket. No. 1,354,115; Sept. 28; v. 278; p. 612.
Lofgren, Einar G. C., Minneapolis, Minn. Teletypewriter or printing-telegraph. No. 1,348,430; Aug. 3; v. 277; p. 59.
Lofgren, John, assignor to Ralco Manufacturing Co., Chicago, Ill. Combination safety-switch and receptacle. No. 1,347,345; July 20; v. 276; p. 519.
Lofstrand, Albin P., Edmonton, Alberta, Canada. Automatic grain-shocker. No. 1,340,781; May 18; v. 274; p. 533.
Lofstrom, Robert W., Worcester, Mass. Lathe-dog. No. 1,342,122; June 1; v. 275; p. 100.
Lofton, Herbert M., Chattanooga, Tenn. Lathe. No. 1,338,742; May 4; v. 274; p. 17.
Loftus, John, Albany, N. Y. Pump. No. 1,342,176; June 1; v. 275; p. 111.
Loftus, Thomas F., West Philadelphia, and F. E. Brazeal Lansdowne, Pa. Automatic shuttle-stop for looms. No. 1,357,066; Oct. 26; v. 279; p. 654.
Logan, Albert E., Brooklyn, N. Y. Wheel-rim. No. 1,340,901; May 25; v. 274; p. 627.
Logan, Anna E., Ridgewood, N. J. Protective hood for aeroplane-pilots. No. 1,327,339; Jan. 6; v. 270; p. 85.
Logan, Archie F. (See Logan, Lindsey H. and A. F.)
Logan, Arthur. (See Stevenson, A., and Logan.)
Logan, Charles E. (See Warley, G. I., and Logan.)
Logan, Lindsey H. and A. F., Spokane, Wash. Hitch. No. 1,341,918; June 1; v. 275; p. 60.
Logan, Nels., Albert Lea, Minn. Cattle-stanchion. No. 1,336,975; Apr. 13; v. 273; p. 301.
Logan Trust Company *et al.*, executors. (See Hirst, Charles S.)
Logan, William, Auckland, New Zealand. Camera-sighter. No. 1,359,515; Nov. 23; v. 280; p. 602.
Logarzo, Emilio, Buenos Aires, Argentina. Maize or Indian-corn harvesting machine. No. 1,351,665; Aug. 31; v. 277; p. 923.
Loggie, William J., Frankfort, Ky., assignor to Union Special Machine Company, Chicago, Ill. Folder or seam-opener for sewing-machines. No. 1,340,782; May 18; v. 274; p. 533.
Lo Giudice, Arthur. (See Lo Giudice, Filippo and A.)
Lo Giudice, Filippo and A., Brooklyn, N. Y. Surgical instrument. No. 1,359,164; Nov. 16; v. 280; p. 487.
Logue, Charles H., Syracuse, N. Y. Machine for testing the operating qualities of bevel-gears. No. 1,363,799; Dec. 28; v. 281; p. 693.
Logwood, Charles V., New York, N. Y. Oscillation-generator system. No. 1,351,776; Sept. 7; v. 278; p. 12.
Lohse, Elmer H. (See Lohse, William F. and E. H.)
Lohse, Otto C., Bloomington, Ill. Automobile protective device. No. 1,336,306; Apr. 6; v. 273; p. 118.
Lohse, William F. and E. H., Omaha, Nebr. Egg-tester. No. 1,330,199; Feb. 10; v. 271; p. 191.
Loichot, Paul F., Louisville, Ohio. Meat grinder. No. 1,350,164; Aug. 17; v. 277; p. 520.
Loija, Maria R., Georgetown, British Guiana. Electrically-propelled boat. No. 1,355,156; Oct. 12; v. 279; p. 193.
Loke, Johannes J. and W. A., The Hague, Netherlands. Direct production of refined iron and refined steel from titaniferous iron ores. No. 1,328,636; Jan. 20; v. 270; p. 428.
Loke, Willem A. (See Loke, Johannes J. and W. A.)
Lokey, Allen T., Memphis, Tex. Cotton-boll-cleaning machine. No. 1,351,858; Sept. 7; v. 278; p. 29.
Lomax, Alfa, Atlanta, Ga. Photograph-cleaning device. No. 1,346,662; July 13; v. 276; p. 325.
Lomb, Henry C. (See Parker, N. D., and Lomb.)
Lombard Carbureter Company. (See Lombard, Nathaniel, assignor.)
Lombard Governor Company, The. (See Warren, H. E., and Wheildon, assignors.)
Lombard, Levi W., Mattapan, assignor of eleven-twentieths to W. S. Bartlett, Brookline, Mass. Injector for internal-combustion engines. No. 1,349,515; Aug. 10; v. 277; p. 322.

Digitized by Google

Lombard, Nathaniel, assignor to Lombard Carbureter Company, Worcester, Mass. Internal-combustion engine. No. 1,335,515; Mar. 30; v. 272; p. 848.
Lombard, Orlando. (See Alford, C. S., and Lombard.)
Lombard, Rose, Cornelia, Ga. Dish drier and holder. No. 1,351,577; Aug. 31; v. 277; p. 906.
Lombard, Walter E., Arlington, Mass. Lifting-jack. No. 1,352,207; Sept. 7; v. 278; p. 94.
Lombardi, Lamberto, Rome, Italy. Electric-arc furnace. No. 1,346,223; July 13; v. 276; p. 238.
Lombardo, Carl, assignor of one-third to J. Familet, Dunkirk, N. Y. Amusement device. No. 1,350,873; Aug. 24; v. 277; p. 704.
Lombardo, Charles, Waterford, N. J. Knockdown crate. No. 1,333,857; Mar. 16; v. 272; p. 430.
Lombardo, Charles, Waterford, N. J. Sash-lock. No. 1,344,048; June 22; v. 275; p. 660.
Londelius, C. A., & Sons Co. (See Londelius, Christian A., Jr., assignor.)
Londelius, Christian A., Jr., assignor to C. A. Londelius & Sons Co., Chicago, Ill. Pipe-support. No. 1,334,545; Mar. 23; v. 272; p. 606.
London, Jacob M., Tunnelton, assignor of one-fourth to G. M. Crawford and one-half to E. M. Refior, Pittsburgh, Pa. Coal mining and loading machine. No. 1,327,052; Jan. 6; v. 270; p. 33.
London, Jacob M., Tunnelton, assignor, by mesne assignments, of one-fourth to G. M. Crawford and one-half to E. M. Refior, Pittsburgh, Pa. Excavating and loading apparatus. No. 1,327,053; Jan. 6; v. 270; p. 33.
London Spinning Company. (See Lovett, Joseph, assignor.)
London, William J. A., Springfield, Mass., assignor to General Electric Company. Turbine-driven set. No. 1,362,497; Dec. 14; v. 281; p. 848.
Londt, David F., Columbia City, Ind. Governor for tractor-engines. No. 1,331,161; Feb. 17; v. 271; p. 440.
Londt, David F., Columbia City, Ind. Safety tractor-hitch. No. 1,347,346; July 20; v. 276; p. 519.
Long, Albert R., Ballston, Va. Two-cycle rotary-cylinder internal-combustion engine. No. 1,350,260; Aug. 17; v. 277; p. 539.
Long, Austin H. (See Storms, George W., assignor.)
Long, Charles H., Cedar Rapids, Iowa. Pocket-guard. No. 1,343,371; June 15; v. 275; p. 461.
Long, Charles M., Keota, Iowa, and M. V. Long, Rock Island, Ill. Weeding attachment for cultivators. No. 1,343,058; June 8; v. 275; p. 337.
Long, Emmet S., Los Angeles, Calif. Retreading solid rubber tires. No. 1,330,128; Feb. 10; v. 271; p. 178.
Long, Frank B., Sacramento, Calif. Articulator for phonographs. No. 1,352,291; Sept. 7; v. 278; p. 111.
Long, Frederick S., Winnipeg, Manitoba, Canada. Card index holder. No. 1,360,548; Nov. 30; v. 280; p. 874.
Long, George A., Scranton, Pa. Rotary engine. No. 1,334,252; Mar. 16; v. 272; p. 504.
Long, George A., Mooresville, Ind. Machine for handling ensilage. No. 1,353,405; Sept. 21; v. 278; p. 425.
Long, George A., assignor of one-fourth to C. Soby, and one-fourth to The Gray Telephone Pay Station Company, Hartford, Conn. System of transmitting intelligence. No. 1,351,775; Sept. 7; v. 278; p. 12.
Long, George F., New York, assignor to The G. Piel Company, Inc., Long Island City, N. Y. Horn. No. 1,328,772; Jan. 20; v. 270; p. 452.
Long, George O., *et al.* (See Denton, William P., assignor.)
Long, George W., *et al.* (See Denton, William P., assignor.)
Long, James F., San Francisco, Calif. Folding camping device. No. 1,351,178; Aug. 31; v. 277; p. 826.
Long, John T., San Diego, Calif. Clock. No. 1,344,913; June 29; v. 275; p. 893.
Long, Joseph A., East Orange, N. J. Combined grate and ash-sifter. No. 1,362,427; Dec. 14; v. 281; p. 334.
Long, Leslie R., Tipton, Iowa. Sheaf-loader. No. 1,327,834; Jan. 13; v. 270; p. 240.
Long, Levett A., assignor to F. A. Tranchant, Dayton, Ohio. Insect-trap. No. 1,335,845; Apr. 6; v. 273; p. 26.
Long, Martin V. (See Long, Charles M. and M. V.)
Long, Ralph A. (See Given, G. C., McQuaid, and Long.)
Long, Russel L., Morgantown, W. Va. Water-motor for egg-beaters. No. 1,337,478; Apr. 20; v. 273; p. 470.
Long, Samuel F., assignor to The Armor Clad Manufacturing Company, Canton, Ohio. Drawer construction. No. 1,333,263; Mar. 9; v. 272; p. 258.
Long, Samuel F., assignor to The Armor Clad Manufacturing Company, Canton, Ohio. Cabinet construction. No. 1,333,264; Mar. 9; v. 272; p. 258.
Long, Thomas R. (See Harwood, Sumpter L., assignor.)
Long, Walter H., Poplar Bluff, Mo. Weeding attachment for cultivators. No. 1,334,621; Mar. 23; v. 272; p. 620.
Long, Willard O., Mansfield, Ohio. Harrow. No. 1,336,642; Apr. 13; v. 273; p. 237.
Long, William H., New York, N. Y. Grainer for planographic plates. No. 1,346,501; July 13; v. 276; p. 293.
Longacre, Frederick V. D., Yonkers, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Electric welding apparatus. No. 1,344,415; June 22; v. 275; p. 731.
Longacre, Frederick V. D., Yonkers, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Starting means for motor-driven compressor installations. No. 1,347,786; July 27; v. 276; p. 664.
Longacre, Frederick V. D., Yonkers, N. Y., assignor to The Ingersoll-Rand Company, Jersey City, N. J. Valve. No. 1,354,318; Sept. 28; v. 278; p. 653.
Longacre, Samuel H. (See Behrens, A. G., and Longacre.)
Longcor, Frank P., Keokuk, Iowa. Track-level. No. 1,341,377; May 25; v. 274; p. 720.
Longenecker, Howard J., York, assignor to York Heating and Ventilating Corporation, Philadelphia, Pa. Corner-stay for receptacles. No. 1,355,486; Oct. 12; v. 279; p. 258.
Longest, Philip S. (See Longest, William B., and P. S.)
Longest, William B. and P. S., Louisville, Ky. Tool for testing and straightening axles. No. 1,363,890; Dec. 28; v. 281; p. 710.
Longfellow, Henry W., deceased, assignor of one-half to W. P. Decker, Boston, Mass.; M. T. B. Longfellow, administratrix. Child's vehicle. No. 1,331,072; Feb. 17; v. 271; p. 424.
Longfellow, Maria T. B., administratrix. (See Longfellow, Henry W.)
Longmeyer, Emanuel. (See Gracey, James G., assignor.)
Longo, Frank E., assignor of one-half to J. Sherman, Belvidere, Ill. Train-pipe disconnector. No. 1,330,983; Feb. 17; v. 271; p. 408.
Longstreet, Joseph O. (See Gott and Longstreet.)
Longstreth, John W., Waynesburg, Pa. Fire-extinguisher. No. 1,346,035; July 6; v. 276; p. 140.
Longstreth, William M., *et al.* (See Matthiessen, Conrad S., assignor.)
Longtin, William J., Philadelphia, assignor to Allen Hosiery Company, Wayne Junction, Germantown, Philadelphia, Pa. Stocking. No. 1,353,659; Sept. 21; v. 278; p. 477.
Longuskie, Frank J., Pontiac, Mich. Door-operating mechanism. No. 1,330,718; Feb. 10; v. 271; p. 287.
Longworth, Katherine M., Jersey City, N. J. Combined wringer and washtub. No. 1,358,762; Nov. 16; v. 280; p. 411.
Longworth, Katherine M., Jersey City, N. J. Wringer. No. 1,358,763; Nov. 16; v. 280; p. 411.
Longworth, Otis L., assignor of one-half to A. L. McCormick, Detroit, Mich. Spark-plug. No. 1,350,319. Aug. 24; v. 277; p. 597.
Lonkert, Edward T. (See Yennett, J., and Lonkert.)
Lonskey, John H., assignor to Central Specialty Company, Detroit, Mich. Molding-machine. No. 1,337,780; Apr. 20; v. 273; p. 528.
Lonson, Albert, Callaway, Minn. Traveler's check. No. 1,329,250; Jan. 27; v. 270; p. 572.
Loog, John D., New York, N. Y. Automatic graphite-lubricating system for internal-combustion-engine cylinders. No. 1,353,055; Sept. 14; v. 278; p. 297.
Loomer, Henry M., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Grinding device for rotary cutters. No. 1,353,254; Sept. 21; v. 278; p. 395.
Loomis, Allen, Detroit, Mich. Cooling system for engines. No. 1,329,419; Feb. 3; v. 271; p. 14.
Loomis, Allen, Detroit, Mich. Key mechanism for wood wind instruments. No. 1,336,359; Apr. 6; v. 273; p. 124.
Loomis, Arthur H., Las Cruces, N. M. Walking toy horse. No. 1,337,479; Apr. 20; v. 273; p. 470.
Loomis Beardsley Mfg. Co., The. (See Beardsley, Edson L., assignor.)
Loomis, Charles H., Edgeley, N. D. Bridle attachment. No. 1,355,057; Oct. 5; v. 279; p. 121.
Loomis, Crawford C., Ilion, assignor, by mesne assignments, to Remington Arms Company, Inc., New York, N. Y. Slide-bushing for pistols. No. 1,348,284; Aug. 3; v. 277; p. 31.
Loomis, Evarts G., Newark, N. J. Device for inserting crystals in bezels and rings. No. 1,344,700; June 29; v. 275; p. 852.
Loomis, Harold S., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. No. 1,331,514; Feb. 24; v. 271; p. 526.
Loomis, Harry T., Brooklyn, N. Y. Burial-garment and making same. No. 1,336,248; Apr. 6; v. 273; p. 103.
Looney, William E., Detroit, Mich. Internal-combustion engine. No. 1,338,185; Apr. 27; v. 273; p. 674.
Looney, William E., Detroit, Mich. Internal-combustion engine. No. 1,345,940; July 6; v. 276; p. 121.
Loose, Cornelius E., New York, N. Y. Belt-shifter. No. 1,357,881; Nov. 2; v. 280; p. 130.
Loose, Johannes, assignor to Fortuna-Werke. Spezialmaschinenfabrik, G. m. b. H., Stuttgart-Cannstatt, Germany. Leather-paring machine. No. 1,345,941; July 6; v. 276; p. 121.
Loose, Johannes, assignor to Fortuna-Werke, Specialmaschinenfabrik, G. m. b. H., Cannstatt-Stuttgart, Germany. Machine-tool. No. 1,348,502; Aug. 3; v. 277; p. 72.
Loose Wiles Biscuit Company. (See Shillito, James T., assignor.)
Loose Wiles Biscuit Company. (See Smith, Joseph J., assignor.)

Digitized by Google

Loose-Wiles Biscuit Company. (See Wachtel, William W., assignor.)
Lopata, John G., Berwyn, Ill. Window. No. 1,345,325; June 29; v. 275; p. 972.
Lopatka, John, Lanuke, Alberta, assignor of one-half to M. Borowski, Edmonton, Canada. Oscillating cradle. No. 1,334,042; Mar. 16; v. 272; p. 466.
López, Ambrosio V., Marianao, Cuba. Leaf-turner. No. 1,351,110; Aug. 31; v. 277; p. 812.
Lopez, Bruno, San Antonio, Tex. Roller-distributer. No. 1,349,726; Aug. 17; v. 277; p. 437.
López, Dalmacio P., San Nicolas, Cuba. Sanitary device for telephones. No. 1,331,345; Feb. 17; v. 271; p. 474.
López, David C., Chicago, Ill. Draftman's protractor. No. 1,351,527; Aug. 31; v. 277; p. 896.
Lopez, Edith L., New York, N. Y. Doll. No. 1,353,406; Sept. 21; v. 278; p. 425.
Lopez, German M., and A. Quaglia, Buenos Aires, Argentina. Mordant or dye and making same. No. 1,348,431; Aug. 3; v. 277; p. 59.
Lorange, Einar, Luverne, Minn. Bag and twine holder. No. 1,350,874; Aug. 24; v. 277; p. 704.
Lorber, J., & Co. (See Lorber, J., and Hill, assignors.)
Lorber, Jacob, New York, N. Y., and H. L. Hill, Elizabeth, assignors to J. Lorber & Co., Inc., Newark, N. J. Casing for timing devices. No. 1,330,984; Feb. 17; v. 271; p. 408.
Lord, Albert L. (See Brockett and Lord.)
Lord, Andy W., Gerster, Mo. Wire-stretcher. No. 1,354,203; Sept. 28; v. 278; p. 629.
Lord, George F., Holly Oak, assignor to du Pont Fabrikoid Company, Wilmington, Del. Combined polish and remover of grease and tar. No. 1,356,869; Oct. 26; v. 279; p. 615.
Lord, Henry C., assignor to General Electric Company, Schenectady, N. Y. Making flow-nozzles. No. 1,352,292; Sept. 7; v. 278; p. 111.
Lord, James H., Methuen, Mass. Roof attachment. No. 1,349,894; Aug. 17; v. 277; p. 469.
Lord, Joseph S. and S. S., Manchester, England. Machine for treating yarn in hank form. No. 1,346,833; July 20; v. 276; p. 418.
Lord, Joseph S. and S. S., Manchester, England. Machine for dyeing, washing, scouring, sizing, bleaching, and mercerizing yarn in hank form. No. 1,348,724; Aug. 3; v. 277; p. 114.
Lord, Sam S. (See Lord, Joseph S. and S. S.)
Lordge, Edward E. (See Livingston, C. F., and Lordge.)
Lorenson, Lorens C., assignor to C. H. Petry, Hudson, N. Y. Bagging-machine. No. 1,345,866; July 6; v. 276; p. 105.
Lorentz, Hermann G., assignor to The J. & E. Stevens Company, Cromwell, Conn. Toy firearm. No. 1,348,285; Aug. 3; v. 277; p. 31.
Lorentzen, Gustav A. (See Steely, D. G., Blake, and Lorentzen.)
Lorentzen, Hans K., New York, N. Y. Portable electric lamp. No. 1,329,051; Jan. 27; v. 270; p. 535.
Lorenz, Edward H. (See Peller, K. E., and Lorenz.)
Lorenz, Herman E. S., Chappaqua, N. Y. Coil-box protector. No. 1,339,568; May 11; v. 274; p. 247.
Lorenz, Rudolf, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Gun with railway gun-carriage. No. 1,360,549; Nov. 30; v. 280; p. 875.
Lorenz, Rudolf, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Gun with railway gun-carriage. No. 1,360,550; Nov. 30; v. 280; p. 875.
Lorenz, William A. (See Peller, K. E., and Lorenz.)
Lorenz, William A., Hartford, Conn. Can or jar and its closure. No. 1,333,761; Mar. 16; v. 272; p. 413.
Lorenz, William A., Hartford, Conn. Suction-head for disk grinding-machines. No. 1,353,966; Sept. 28; v. 278; p. 581.
Lorenz, William A., Hartford, Conn. Aeroplane-propeller blade. No. 1,361,598; Dec. 7; v. 281; p. 125.
Lorenz, William A., Hartford, Conn. Disk grinding-machine. No. 1,353,967; Sept. 28; v. 278; p. 581.
Lorenz, William A., Hartford, Conn. Disk-grinding machine. No. 1,355,345; Oct. 12; v. 279; p. 230.
Lorenz, William A., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,344,304; June 22; v. 275; p. 709.
Lorenz, William R., Denver, Colo. Lock-nut. No. 1,344,544; June 22; v. 275; p. 757.
Lorenzen, Charles F., Oak Park, Ill. Toy building and design block. No. 1,337,664; Apr. 20; v. 273; p. 506.
Lorenzen, Frederick G., assignor to Kellogg Toasted Corn Flake Company, Battle Creek, Mich. Food product and preparing same. No. 1,358,960; Nov. 16; v. 280; p. 450.
Lorillard, P., Company. (See Harris, James B., assignor.)
Lorillard, P., Company. (See Williams, George M., assignor.)
Loring, Gustavus S., Watertown, assignor of fifty-one one-hundredths to K. A. Loring, Reading, Mass. Elevator-operating mechanism for linotype-machines. No. 1,331,655; Feb. 24; v. 271; p. 553.
Loring, Kimball A. (See Loring, Gustavus S., assignor.)
Loring, Waldo F., Duxbury, assignor of one-half to J. B. Hadaway, Swampscott, Mass. Device for harvesting cranberries. No. 1,348,132; July 27; v. 276; p. 732.
Loring, William C., Hartford, and C. E. Jacobson, Manchester, assignors to A. F. Way Company, Incorporated, Hartford, Conn. Metal-working machine. No. 1,338,456; Apr. 27; v. 273; p. 725.
Loriot, Alfred J., Newark, N. J. Galley. No. 1,351,295; Aug. 31; v. 277; p. 850.
Lorking, Francis H., Wayville, South Australia, Australia. Adjustable electric contact. No. 1,347,391; July 20; v. 276; p. 528.
Lorraine, Alfred, *et al.* (See Neibel, De Witt E., assignor.)
Lorton, Pierre M., Paris, France. Construction of vessels of reinforced concrete. No. 1,349,075; Aug. 10; v. 277; p. 235.
Los Angeles Trailer Company. (See Norton, Guy A., assignor.)
Loscalzo, Angelo, New York, N. Y. Safety-fender. No. 1,352,757; Sept. 14; v. 278; p. 238.
Losee, Gilbert E., Philadelphia, Pa. Window-curtain. No. 1,331,346; Feb. 17; v. 271; p. 474.
Losson, Aldo. (See Proctor, F. D., and Losson.)
Lott, Clyde R., Washington, D. C., assignor to The Guardian Trust and Savings Bank of Toledo, Toledo, Ohio. Mechanism for transferring ware to leers. No. 1,338,992; May 4; v. 274; p. 63.
Lothrop, Marcus T., assignor to The Timken Roller Bearing Company, Canton, Ohio. Improving the machining properties of steel. No. 1,360,551; Nov. 30; v. 280; p. 875.
Lott, C. W. (See Hilliard, John M., assignor.)
Lottero, Carmen O., Buenos Aires, Argentina. Proceeding for the production of paste destined for manufacture of paper, cardboard, and the like. No. 1,341,991; June 1; v. 275; p. 74.
Lotz, William A., Newark, N. J., assignor to The R. Neumann Hardware Co. Bag-frame hinge. No. 1,341,754; June 1; v. 275; p. 28.
Loud, Charles G. (See Kennedy, T., and Kiser, assignors.)
Loud, William C., Detroit, Mich. Automobile curtain or panel. No. 1,355,558; Oct. 12; v. 279; p. 271.
Louden, Charles H., Casscoe, Ark. Weight-motor. No. 1,329,050; Jan. 27; v. 270; p. 535.
Louden, Jonathan D., assignor to J. T. Wiggins, Toronto, Ontario, Canada. Spring centering attachment for automobile steering apparatus. No. 1,335,064; Mar. 30; v. 272; p. 764.
Louden Machinery Company, The. (See Hassler, P. M., and Neller, assignors.)
Louden Machinery Company, The. (See Louden, Walter A., assignor.)
Louden Machinery Company. (See Neller, Albert H., assignor.)
Louden, Walter A., assignor to The Louden Machinery Company, Fairfield, Iowa. Trolley. No. 1,343,631; June 15; v. 275; p. 512.
Louden, William, Fairfield, Iowa. Device for bending metallic track-rails. No. 1,342,554; June 8; v. 275; p. 237.
Louden, William, Fairfield, Iowa. Pipe-coupling. No. 1,344,914; June 29; v. 275; p. 894.
Louden, William, Fairfield, Iowa. Receptacle for feed-carriers. No. 1,356,212; Oct. 19; v. 279; p. 440.
Loudenback, John W., assignor of one-third to W. H. Lee, Stuart, Iowa. Washing-machine. No. 1,331,515; Feb. 24; v. 271; p. 526.
Loudon, Dorr F., New York, N. Y. Plant-stand. No. 1,336,307; Apr. 6; v. 273; p. 114.
Loudon, Warren P., Niagara Falls, N. Y., assignor to Vapor Car Heating Company, Inc., Chicago, Ill. Valve-operating mechanism. No. 1,350,077; Aug. 17; v. 277; p. 504.
Loudon, Warren P., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Cell-post and mounting same. No. 1,362,018; Dec. 14; v. 281; p. 255.
Loudon, Warren P., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Relief mechanism for storage batteries. No. 1,363,606; Dec. 28; v. 281; p. 656.
Lough, Hector V., Hartford, Conn., assignor to Universal Fixture Corporation, New York, N. Y. Spacer for panels of display-fixtures. No. 1,344,239; June 22; v. 275; p. 696.
Lougheed, Wellington, Wyandotte, assignor of one-half to J. B. Sparks, Royal Oak, Mich. Door-lock. No. 1,352,819; Sept. 14; v. 278; p. 251.
Loughery, Joseph F., Philadelphia, Pa. Multicolor-printing machine. No. 1,349,895; Aug. 17; v. 277; p. 469.
Loughlin, Luke, Jersey City, N. J. Radiator. No. 1,353,768; Sept. 21; v. 278; p. 498.
Louis, Terrence G., assignor to Witherbee Igniter Company, Springfield, Mass. Holding means for magnets. No. 1,335,119; Mar. 30; v. 272; p. 775.
Louison, Alfred B., Rockford, Ill. Crutch. No. 1,342,506; June 8; v. 275; p. 227.
Lounsbury, Harvey J., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Yoke. No. 1,355,087; Oct. 19; v. 279; p. 394.
Louque, Carmelite. (See Louque, George A., assignor.)

Digitized by Google

Alphabetical list of patentees—Continued.

Louque, George A., assignor to C. Louque, New Orleans, La. Artificial tooth. No. 1,351,578; Aug. 31; v. 277; p. 906.
Louthan, Wallace B., Marshalltown, Iowa. Motor-vehicle. No. 1,331,205; Feb. 17; v. 271; p. 448.
Louvet, Charles. (See Knutsen, John, assignor.)
Louvrier, François, Paimboeuf, France. Electrometallurgical furnace. No. 1,342,636; June 8; v. 275; p. 252.
Love, Archie F., and J. Nicoletti, assignors to Eastman Kodak Company, Rochester, N. Y. Press-guard. No. 1,343,178; June 8; v. 275; p. 360.
Love, E. W., administrator. (See Mitchell, Henry A.)
Love, Harry, Staten Island, N. Y. Meat-roaster. No. 1,344,915; June 29; v. 275; p. 894.
Love, Ralph M. (See Vaughan, R. B., and Love.)
Love, Samuel H., assignor of one-third to H. Meacham, Sanford, Fla. Emergency-tank for automobiles. No. 1,351,336; Aug. 31; v. 277; p. 858.
Lovegrove, Edwin J., London, England. Treatment of waste tins. No. 1,363,332; Dec. 28; v. 281; p. 603.
Lovejoy, Frank W., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic film. No. 1,342,590; June 8; v. 275; p. 244.
Lovejoy, Ralph M., Meredith, N. H. Brake. No. 1,363,607; Dec. 28; v. 281; p. 656.
Lovekin, Luther D., Ardmore, Pa. Securing bed-plates to sole-plates. No. 1,344,416; June 22; v. 275; p. 731.
Lovekin, Luther D., Ardmore, Pa. Expansible washer. No. 1,344,417; June 22; v. 275; p. 731.
Lovekin, Luther D., Philadelphia, Pa. Feed-water heater. No. 1,350,320; Aug. 24; v. 277; p. 597.
Lovelace, Benjamin F. (See Patrick, W. A., Lovelace, and Miller.)
Lovelace, Benjamin F., Baltimore, Md. Producing oxid or oxids of manganese. No. 1,352,208; Sept. 7; v. 278; p. 95.
Lovelace, Paul U., Clinton, Okla. Grinding-tool. No. 1,346,036; July 6; v. 276; p. 140.
Loveland, Byron S., assignor, by mesne assignments, to Baxter D. Whitney & Son, Inc., Winchendon, Mass. Scraping-tool-forming machine. No. 1,363,476; Dec. 28; v. 281; p. 630.
Lovelee, Ray F. (See Wilbur, R. S., and Lovelee.)
Lovell, Arthur, Douthat, Okla. Roofing-tile. No. 1,354,050; Sept. 28; v. 278; p. 598.
Lovell, Arthur, Douthat, Okla. Dumping apparatus. No. 1,360,124; Nov. 23; v. 280; p. 723.
Lovell, John E., Hastings, Nebr. File-handle. No. 1,339,658; May 11; v. 274; p. 264.
Lovell, John W., Cabery, Ill. Automobile-chassis. No. 1,338,383; Apr. 27; v. 273; p. 712.
Lovell, Joseph W., St. Catherines, Ontario, Canada. Calipers. No. 1,358,321; Nov. 9; v. 280; p. 277.
Lovell Manufacturing Company. (See Lewis, George W., assignor.)
Lovell, Stanley P., Brockton, Mass. Colloid-treated fabric and producing same. No. 1,353,599; Sept. 21; v. 278; p. 464.
Lovell, Wesley S., assignor of one-half to R. R. Rockwell, Elmira, N. Y. Gearing. No. 1,352,293; Sept. 7; v. 278; p. 111.
Lovell, William V., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. High-vacuum pumping system. No. 1,346,408; July 13; v. 276; p. 274.
Lovett, Joseph, assignor of one-half to London Spinning Company, Limited, Deptford, London, England. Apparatus employed in drawing and spinning hemp, flax, and other fibrous materials. No. 1,345,203; June 29; v. 275; p. 948.
Lovington, Julius A., Port Richmond, N. Y. Toy vehicle. No. 1,363,891; Dec. 28; v. 281; p. 710.
Lovrencic, Slavko. (See Libenschek, Rudolf, assignor.)
Low, David, and A. R. Thompson, San Jose, Calif.; said Thompson assignor to said Low. Asparagus-sizing machine. No. 1,333,858; Mar. 16; v. 272; p. 430.
Low, John W., Joliet, Ill. Method of and apparatus for coating paper-board with paraffin or the like. No. 1,336,528; Apr. 13; v. 273; p. 215.
Low, Raymond G., Cambridge, Mass. Surface-indicator. No. 1,334,915; Mar. 23; v. 272; p. 677.
Lowary, Harry T. (See McFarland, E., and Lowary.)
Lowd, Wesley H., Glen Frazer, Calif. Train classification and number indicator. No. 1,354,437; Sept. 28; v. 278; p. 677.
Lowden, Hugh B., Denver, Colo. Drying materials. No. 1,339,771; May 11; v. 274; p. 286.
Lowdermilk, Alfred J., Mount Gilead, N. C. Sectional boat. No. 1,337,781; Apr. 20; v. 273; p. 528.
Lowe, Albert H., Maplewood, assignor of one-half to R. B. Maxwell, St. Louis, Mo. Clamp for plumbers' force-pumps. No. 1,327,768; Jan. 13; v. 270; p. 227.
Lowe, Clyde E. (See Clark, D. A., and Lowe.)
Lowe, David T., Ohlman, Ill. Churn. No. 1,340,491; May 18; v. 274; p. 479.
Lowe, Dempsey, Akron, Ohio. Tire-tube-making apparatus. No. 1,337,930; Apr. 20; v. 273; p. 557.
Lowe, Ernest A., Plainfield, N. J. Pivot or knuckle-joint connection. No. 1,363,477; Dec. 28; v. 281; p. 630.
Lowe, Harry W., assignor, by mesne assignments, to Sprague Canning Machinery Co., Omaha, Nebr. Exhauster. No. 1,350,104; Aug. 17; v. 277; p. 509.

Lowe, John, and John J. Lyth, Valleyfield, Quebec, Canada. Method of and apparatus for straightening weft-threads. (Reissue.) No. 14,979; Nov. 9; v. 280; p. 352.
Lowe, Leon P., trustee. (See Worthen, Burt L., assignor.)
Lowe, Leon P., San Francisco, Calif. Gas or vapor heater. (Reissue.) No. 14,903; June 29; v. 275; p. 975.
Lowe, Leon P., San Francisco, and F. C. Ruff, Los Angeles, assignors to By-Products Manufacturing Company, San Francisco, Calif. Cracking petroleum. No. 1,351,859; Sept. 7; v. 278; p. 29.
Lowe, Robert G., Clawson, Mich. Sand-sifter. No. 1,354,319; Sept. 28; v. 278; p. 653.
Lowe, Robert G., Clawson, Mich. Power-sieve. No. 1,357,292; Nov. 2; v. 280; p. 18.
Lowe, William H. (See Plettner, O. L., and Lowe.)
Lowell Bleachery. (See Kiernan, Patrick W., assignor.)
Lowenstein, Fritz, Brooklyn, N. Y. Electric sadiron. No. 1,333,722; Mar. 16; v. 272; p. 405.
Lowenstein, Fritz, Brooklyn, N. Y. Radiosignaling apparatus. No. 1,339,772; May 11; v. 274; p. 286.
Lower, Melvin S., Barberton, Ohio. Manufacturing rubber hot-water bottles. No. 1,338,314; Apr. 27; v. 273; p. 699.
Lower, Nathan M., assignor to Locomotive Stoker Company, Pittsburgh, Pa. Locomotive-stoker. No. 1,363,333; Dec. 28; v. 281; p. 603.
Loweree, Edgar R., G. F. Jackson, and R. A. Gleason, assignors to Southern Can Company, Baltimore, Md. Receptacle-feeding mechanism. No. 1,330,596; Feb. 10; v. 271; p. 265.
Lowery, William T. (See Nicholson and Lowery.)
Lowery, William T., *et al.* (See Nicholson, Howard M., assignor.)
Lowman, Adonis G. E., Winnipeg, Manitoba, Canada. Game-board. No. 1,341,185; May 25; v. 274; p. 682.
Lowry, Cassandra, Chicago, Ill. Combined salt and pepper shaker. No. 1,331,444; Feb. 17; v. 271; p. 492.
Lowry, Emmet J., Dubuque, Iowa. Convertible car. No. 1,338,942; May 4; v. 274; p. 54.
Lowry, Frank, assignor to The Ohio Grease Company, Loudonville, Ohio. Valve. No. 1,334,870; Mar. 23; v. 272; p. 668.
Lowry, Frank J., New Orleans, La. Artificial limb. No. 1,351,955; Sept. 7; v. 278; p. 49.
Lowry, Jesse R., St. Joseph, Mo. Differential for self-propelling vehicles. No. 1,336,643; Apr. 13; v. 273; p. 237.
Lowther, William P., Spokane, Wash. Valve-stem-protector hood. No. 1,332,347; Mar. 2; v. 272; p. 33.
Lox Seal Corporation. (See Behrman, Marcus B., assignor.)
Loy, Thomas H., Terre Haute, Ind. Brake mechanism for talking-machines. No. 1,349,216; Aug. 10; v. 277; p. 263.
Loyd, Clarence E., Los Angeles, Calif., assignor of one-fourth to C. I. Decker, one-fourth to J. H. Peco, one-fourth to F. Gidding, Los Angeles, Calif., and one-fourth to J. Stidel, Appleton, Wis. Auxiliary windshield. No. 1,356,213; Oct. 19; v. 279; p. 440.
Loyland, Betsie K., Thief River Falls, Minn., assignor of one-half to T. K. Hofto, Grand Forks, N. D. Picture-frame holder and hanger. No. 1,338,384; Apr. 27; v. 273; p. 712.
Loynes, Owen H., assignor to American Telephone and Telegraph Company, Woodridge, N. J. Holding-circuits for toll-switching trunks. No. 1,359,516; Nov. 23; v. 280; p. 602.
Loyster, James A., Cazenovia, N. Y. Closure for bottles and jars. No. 1,340,783; May 18; v. 274; p. 534.
Loyster, James A., Cazenovia, N. Y. Cap for milk-bottles and similar receptacles. No. 1,346,757; July 13; v. 276; p. 344.
Lozier, Harry J., Spokane, Wash. Paper receptacle. No. 1,338,008; Nov. 9; v. 280; p. 216.
Lozzitto, Rocco, and L. Moss, New York, N. Y. Bottle-holder. No. 1,346,901; July 20; v. 276; p. 431.
Lübeck, Hilding, Herserud, Sweden. Pneumatic sleeper for railways. No. 1,358,764; Nov. 16; v. 280; p. 412.
Lübeck, Hilding, Herserud, Sweden. Apparatus for exchange-batteries in electric automobiles. No. 1,362,019; Dec. 14; v. 281; p. 255.
Luboshez, Nahum E., Harrow, England. Multiple-image photography. No. 1,351,430; Aug. 31; v. 277; p. 877.
Luboshez, Nahum E., London, England, assignor to Eastman Kodak Company, Rochester, N. Y. Film-holder. No. 1,363,184; Dec. 21; v. 281; p. 533.
Luby, John L., and C. A. Treat, Denver, Colo., assignors to The Liberty Pressure Cooker Company. Safety-valve. No. 1,332,115; Feb. 17; v. 271; p. 432.
Lucand, Alexander, assignor to International Motor Company, New York, N. Y. Drive for motor-vehicles. No. 1,330,883; Feb. 17; v. 271; p. 388.
Lucas, Abram N., Milwaukee, Wis. Means for delivering air-pump and blower exhaust to locomotive-smokestacks. No. 1,329,618; Feb. 3; v. 271; p. 51.
Lucas, Alfred. (See Horne, S. E., and Lucas.)
Lucas, August L., New Haven, Conn. Combination-tool. No. 1,346,409; July 13; v. 276; p. 275.
Lucas, Blaine, Harlowton, Mont. Stove attachment. No. 1,339,268; May 4; v. 274; p. 114.

Digitized by Google

Lucas, Charles O., Dayton, Ohio. Rotary baking-oven. No. 1,328,745; Jan. 20; v. 270; p. 448.
Lucas, Earl S., Randolph, Iowa. Motor-driven tractor-cultivator. No. 1,353,923; Sept. 28; v. 278; p. 572.
Lucas, Earl S., Randolph, Iowa. Cultivator. No. 1,353,924; Sept. 28; v. 278; p. 572.
Lucas, Ernest. (See Horne, S. E., and Lucas.)
Lucas, Harry. (See Gill, H. T., and Lucas.)
Lucas, Henry M., Cleveland, Ohio. Power-press. No. 1,339,773; May 11; v. 274; p. 286.
Lucas, Henry M., Cleveland, Ohio. Power-press. No. 1,339,774; May 11; v. 274; p. 286.
Lucas, John, Bridgeport, Conn. Composition for casting molds. No. 1,338,141; Apr. 27; v. 273; p. 666.
Lucas, William H., assignor of one-half to H. H. Brown, Claremore, Okla. Fastening device. No. 1,329,191; Jan. 27; v. 270; p. 561.
Luce, Grafton E., Chicago, Ill. Brick handling and setting apparatus. No. 1,335,344; Mar. 30; v. 272; p. 817.
Luce, Henry A., and O. Sonners, Cody, Wyo. Internal brake. No. 1,334,253; Mar. 16; v. 272; p. 504.
Luce, Lorenzo L., assignor to Luce Trunk Company, Kansas City, Mo. Carrier and handle therefor. No. 1,359,461; Nov. 16; v. 280; p. 547.
Luce Trunk Company. (See Luce, Lorenzo L., assignor.)
Lucey Manufacturing Corporation of Tennessee. (See Fair, Ralph E., assignor.)
Luchetti, Amedeo, Monero, N. Mex. Railway-track. No. 1,348,286; Aug. 3; v. 277; p. 31.
Luciani, Jacques, assignor to Willy J. Solms, Paris, France. Quick-fire gun with multiple barrels. No. 1,363,608; Dec. 28; v. 281; p. 656.
Lucier, Theophelles D., Detroit, Mich. Making dies. No. 1,357,503; Nov. 2; v. 280; p. 57.
Lucius, Christian V., Massillon, Ohio. Metallic grave vault. No. 1,359,402; Nov. 16; v. 280; p. 535.
Luck, Charles A., assignor to The Conklin Pen Manufacturing Company, Toledo, Ohio. Fountain-pen. No. 1,336,572; Apr. 13; v. 273; p. 223.
Luck, Emil, Clara City, Minn. Nut-lock. No. 1,350,165; Aug. 17; v. 277; p. 521.
Luck, Hans C., Madera, Calif. Wheel-angle indicator. No. 1,362,428; Dec. 14; v. 281; p. 334.
Lucke, Charles E., New York, assignor of one-third to L. Wilputte and two-thirds to A. A. Wilputte, New Rochelle, N. Y. Coke-oven and operating same. No. 1,332,909; Mar. 9; v. 272; p. 191.
Lucke, Charles E., New York, N. Y. Producing heat. No. 1,344,049; June 22; v. 275; p. 660.
Lucke, Charles E., New York, and J. Good, assignors to Good Inventions Co., Brooklyn, N. Y. Liquid-fuel carburation. No. 1,345,378; July 6; v. 276; p. 10.
Lucke, Charles E., New York, N. Y. Method of and apparatus for measuring superficial areas. No. 1,358,086; Nov. 9; v. 280; p. 231.
Luckett, Edward H., Chicago, Ill., assignor to Liggett & Myers Tobacco Co., New York, N. Y. Container-cover-retaining means. No. 1,331,470; Feb. 17; v. 271; p. 497.
Luckett, Philip A., Philadelphia, Pa. Undergarment. No. 1,339,116; May 4; v. 274; p. 88.
Luckey, George P., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Solder. No. 1,333,666; Mar. 16; v. 272; p. 395.
Luckiesh, Matt, and D. A. Dewey, Cleveland, Ohio, assignors to General Electric Company. Composition of color-filter or absorbing-screen for artificial light. No. 1,331,937; Feb. 24; v. 271; p. 606.
Ludekens, Oona. (See Mohler, T. B., and Ludekens.)
Ludlow, Margery E. N., Haverford, Pa. Wind-shield. No. 1,328,383; Jan. 20; v. 270; p. 380.
Ludlow Typograph Company. (See Brasted, Clair H., assignor.)
Ludlum Electric Furnace Corporation. (See Trembour, Max R., assignor.)
Ludolph, Geo. R. (See Troja, Louis F., assignor.). (Reissue.)
Ludwig, Charles S., Trenton, N. J. Jelly-strainer. No. 1,353,056; Sept. 14; v. 278; p. 298.
Ludwig, De Forest W., Pittsburgh, Pa. Floral device. No. 1,336,249; Apr. 6; v. 273; p. 103.
Ludwig & Ludwig. (See Danly, Robert C., assignor.)
Ludwig, William, Bellaire, Ohio. Pipe-blister-removing device. No. 1,343,571; June 15; v. 275; p. 500.
Ludwig, William C. (See Kindig, Samuel C., assignor.)
Luebeck, Elmer, Chicago, Ill. Rotary engine. No. 1,363,256; Dec. 28; v. 281; p. 588.
Lueckenbach, Anton T., Neenah, Wis. Line-clamp. No. 1,363,002; Dec. 21; v. 281; p. 498.
Lueders, Edgar T., Lagrange, Tex. Tool for replacing transmission-covers on Ford cars. No. 1,358,860; Nov. 16; v. 280; p. 431.
Luedke, August J., assignor to Milwaukee Corrugating Company, Milwaukee, Wis. Trough and producing same. No. 1,349,841; Aug. 17; v. 277; p. 458.
Luedke, Herman. (See Dorn, H. C., and Luedke.)
Luellen, Lawrence W. (See Hammond, W. P., and Luellen.)
Luellen, Lawrence W., New York, N. Y., assignor, by mesne assignments, to Individual Drinking Cup Company, Inc. Dispensing apparatus. No. 1,336,469; Apr. 13; v. 273; p. 204.
Luellen, Lawrence W., Mountain Lakes, N. J., assignor, by mesne assignments, to Individual Drinking Cup Company. Cup-dispenser. No. 1,337,843; Apr. 20; v. 273; p. 540.
Luery, Michael, and B. S. Nelson; said Nelson assignor to Model Form Company, Chicago, Ill. Dress-form. No. 1,351,179; Aug. 31; v. 277; p. 826.
Luery, Michael, and B. S. Nelson; said Nelson assignor to Model Form Company, Chicago, Ill. Dress-form. No. 1,351,180; Aug. 31; v. 277; p. 826.
Luffman, Reginald J., *et al.* (See Forse, Lyndall, assignor.)
Lutt, Edward, St. Louis, Mo. Metallic window-screen. No. 1,339,464; May 11; v. 274; p. 227.
Lugt, Gerard J., Amsterdam, Netherlands. Device for supplying cooling liquids to pistons of internal-combustion engines. No. 1,349,516; Aug. 10; v. 277; p. 322.
Luib, Alphons and E. Steinbuch Monthey, Switzerland, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Electrolysis of aqueous solutions by means of propulsive electrodes. No. 1,354,498; Oct. 5; v. 279; p. 10.
Luis, Pedro. (See Traphagen, William E., assignor.)
Luitwieler, Clarence S., *et al.* (See Presby, Leroy Q., assignor.)
Lukaszewski, John, Chicago, Ill. Fountain-brush. No. 1,349,517; Aug. 10; v. 277; p. 323.
Lukaszewski, Stanislaw J., Detroit, Mich. Heater. No. 1,329,052; Jan. 27; v. 270; p. 535.
Luke, Frederick, assignor of one-fourth to H. I. Grawcour, Geelong, Victoria, Australia. Economization of hydrocarbon-engine fuel. No. 1,339,465; May 11; v. 274; p. 227.
Luke, James A., Cleveland, Ohio. Vehicle-spring. No. 1,351,111; Aug. 31; v. 277; p. 813.
Lukens, Alan R., Jr., Wyoming, Ohio. Shingle. No. 1,348,503; Aug. 3; v. 277; p. 72.
Lukens, C. De Witt, Surgical Manufacturing Company. (See Lukens, Clarence D., assignor.)
Lukens, Clarence D., assignor to C. De Witt Lukens Surgical Manufacturing Company, St. Louis, Mo. Aseptic ligating-package. No. 1,334,916; Mar. 23; v. 272; p. 677.
Lukens, William L. (See Sullivan, F. A., and Lukens.)
Lukens, William L., assignor to Bethlehem Steel Company, Bethlehem, Pa. Base detonating-fuse. No. 1,327,600; Jan. 6; v. 270; p. 134.
Lukomski, Anthony. (See Lukomski, John B. and A.)
Lukomski, John B. and A., Detroit, Mich. Mold. No. 1,360,655; Nov. 30; v. 280; p. 896.
Lum, Walter O. (See Albrecht and Lum.)
Lum, Walter O., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical system for automobiles. No. 1,335,120; Mar. 30; v. 272; p. 775.
Lum, Walter O., Amsterdam, N. Y., assignor to General Electric Company. Controlling means for electric circuits. No. 1,339,466; May 11; v. 274; p. 227.
Lum, Walter O., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Circuit-interrupter. No. 1,352,462; Sept. 14; v. 278; p. 179.
Lumber Tie & Timber Vulcanizing Company. (See Fish, Frederick K., Jr., assignor.)
Luminus Cotton Gin Company. (See Grimes, Thaddeus S., assignor.)
Lumley, Gascoigne, Lagos, Nigeria, West Africa. Gland and packing of centrifugal sand-pumps. No. 1,336,308; Apr. 6; v. 273; p. 114.
Lummus, Walter E., Lynn, Mass. Treating gas-vapor mixtures. No. 1,336,360; Apr. 6; v. 273; p. 124.
Lund, Albert E. (See de Golyer, A. G., and Lund.)
Lund, Peter M., Brooklyn, N. Y. Clothesline-support. No. 1,330,082; Feb. 10; v. 271; p. 169.
Lund, Gustav A., Stillwater, Minn. Padlock. No. 1,349,682; Aug. 17; v. 277; p. 428.
Lund, Hans A., Brooklyn, N. Y. Parallel-ruler. No. 1,357,462; Nov. 2; v. 280; p. 49.
Lund, Joel, San Francisco, Calif. Smelting. No. 1,360,552; Nov. 30; v. 280; p. 875.
Lund, John M., and H. Anderson, Battleview, N. D. Dust-pan. No. 1,349,165; Aug. 10; v. 277; p. 253.
Lund, Nelson C., Bridgeport, Conn. Stop-release cover-support. No. 1,362,255; Dec. 14; v. 281; p. 302.
Lund, Peter H., Minneapolis, Minn. Motor-vehicle. No. 1,363,988; Dec. 28; v. 281; p. 729.
Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Trimming-machine. No. 1,328,531; Jan. 20; v. 270; p. 408.
Lund, Thomas, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Heel-builder. No. 1,330,544; Feb. 10; v. 271; p. 255.
Lund, Thomas, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Die. No. 1,340,235; May 18; v. 274; p. 430.
Lund, Thomas, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Heeling-machine. No. 1,344,305; June 22; v. 275; p. 709.
Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Softening apparatus. No. 1,355,836; Oct. 19; v. 279; p. 365.

Digitized by Google

Alphabetical list of patentees—Continued.

Lundberg, Fred, Chicago, Ill. Lock for burial-caskets. No. 1,345,451; July 6; v. 276; p. 24.
Lundberg, Jacob O., Borge, near Fredriksstad, Norway. Steam-inlet and water-outlet of drying-cylinders. No. 1,331,994; Feb. 24; v. 271; p. 617.
Lundbom, Mattis, Orebro, Sweden. Stretcher, sick-bed, and the like. No. 1,344,088; June 22; v. 275; p. 667.
Lundell, Alben E., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,330,200; Feb. 10; v. 271; p. 192.
Lundell, Alben E., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,333,026; Mar. 9; v. 272; p. 214.
Lundell, Alben E., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-switch-controlling system. No. 1,333,027; Mar. 9; v. 272; p. 214.
Lundell, Alben E., assignor to Western Electric Company, Incorporated, New York, N. Y. Switch-controlling system. No. 1,334,105; Mar. 16; v. 272; p. 477.
Lundell, Alben E., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,334,307; Mar. 23; v. 272; p. 561.
Lundell, Alben E., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,334,766; Mar. 23; v. 272; p. 648.
Lundell, Alben E., New York, N. Y., assignor, by mesne assignments, to Western Electric Company, Incorporated. Machine-switching telephone-exchange system. No. 1,337,710; Apr. 20; v. 273; p. 515.
Lundell, Alben E., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,337,711; Apr. 20; v. 273; p. 515.
Lundell, Alben E., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No 1,337,712; Apr. 20; v. 273; p. 515.
Lundell, Alben E., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,337,782; Apr. 20; v. 273; p. 528.
Lundell, Alben E., assignor to Western Electric Company, Incorporated, New York, N. Y. Machine-switching telephone system. No. 1,341,473; May 25; v. 274; p. 738.
Lundell, Alben E., assignor to Western Electric Company, Incorporated, New York, N. Y. Call-registering system. No. 1,354,051; Sept. 28; v. 278; p. 598.
Lundell, Alben E., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,356,164; Oct. 19; v. 279; p. 430.
Lundell, Alben E., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,356,639; Oct. 26; v. 279; p. 570.
Lundell, Alben E., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,363,334; Dec. 28; v. 281; p. 603.
Lundell, Alben E., and E. H. Clark, assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,342,823; June 8; v. 275; p. 291.
Lundell, Alben E., and E. H. Clark, assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,362,020; Dec. 14; v. 281; p. 255.
Lundell, Alben E., New York, N. Y., and F. A. Stearn, Paterson, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,330,483; Feb. 10; v. 271; p. 244.
Lundell, Alben E., New York, N. Y., and F. A. Stearn, Paterson, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,345,016; June 29; v. 275; p. 912.
Lundell, Alben E., New York, N. Y., and E. W. Hancock, Wilmington, Del., assignors to Western Electric Company, Incorporated, New York, N. Y. Sender-testing system. No. 1,334,767; Mar. 23; v. 272; p. 648.
Lundell, Alben E., New York, and G. Thompson, Mount Vernon, assignors to Western Electric Company, Incorporated, New York, N. Y. Automatic telephone system. No. 1,332,222; Mar. 2; v. 272; p. 9.
Lundell, Alben E., and A. B. Sperry, assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,334,308; Mar. 23; v. 272; p. 561.
Lundén, Harald L. R. (See Thorssell, C. T., and Lundén.)
Lundgaard, Ivar, Rochester, N. Y. Fluid-proportioning apparatus. No. 1,333,986; Mar. 16; v. 272; p. 455.
Lundgaard, Ivar, Rochester, N. Y. Gas-burner. No. 1,340,902; May 25; v. 274; p. 627.
Lundgreen, Robert G., Chicago, Ill. Crank-case reinforcement. No. 1,345,204; June 29; v. 275; p. 948.
Lundgren, Edwin, assignor to Westinghouse Electric & Manufacturing Company, Pittsburgh, Pa. Refuse-discharge mechanism for furnaces. No. 1,355,487; Oct. 12; v. 279; p. 258.
Lundie, John, New York, N. Y. Railway-spike. No. 1,333,859; Mar. 16; v. 272; p. 430.
Lundie, John, New York, N. Y. Tie-plate. No. 1,333,860; Mar. 16; v. 272; p. 431.
Lundie, John, New York, N. Y. Rail-anchor. No. 1,350,321; Aug. 24; v. 277; p. 597.
Lundin, Adolf P., Bez Valley, Johannesburg, Transvaal, South Africa. Bicycle-pump lock. No. 1,329,784; Feb. 3; v. 271; p. 81.
Lundin, Adolf P., Johannesburg, Transvaal, South Africa. Bicycle-pump lock. No. 1,338,512; Apr. 27; v. 273; p. 736.
Lundin, Karl G., assignor of one-half to J. C. Morris, Detroit, Mich. Motor-vehicle construction. No. 1,339,269; May 4; v. 274; p. 114.
Lundin, Martin, assignor to Newell Sanders Plow Company, Chattanooga, Tenn. Wheel-plow. No. 1,362,710; Dec. 21; v. 281; p. 441.
Lundin, Nils, Clackamas, Oreg. Saw-guide for timber-cutters. No. 1,327,054; Jan. 6; v. 270; p. 33.
Lundin, Sol W., and J. Friedman, New York, N. Y. Bathing-shoe. No. 1,335,287; Mar. 30; v. 272; p. 806.
Lundius, Eric R., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,329,001; Jan. 27; v. 270; p. 525.
Lundius, Eric R., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,330,201; Feb. 10; v. 271; p. 192.
Lundmark, John E., Ostersund, Sweden. Ice-saw. No. 1,356,640; Oct. 26; v. 279; p. 570.
Lundmark, Lars A., Loraine, Wis. Punch. No. 1,336,529; Apr. 13; v. 273; p. 215.
Lundquist, Hjalmar J., Duluth, Minn. Skee-shaping device. No. 1,356,726; Oct. 26; v. 279; p. 587.
Lundquist, Frank A., assignor to C. L. Redfield, trustee, Chicago, Ill. Calling mechanism for telephone-exchanges. No. 1,327,622; Jan. 13; v. 270; p. 200.
Lundqvist, Nils H., assignor of one-half to C. Park, New Haven, Conn. Valve-spring lifter. No. 1,353,255; Sept. 21; v 278; p 396.
Lundstedt, Charles L., Lynn, Mass. Permutation-lock. No. 1,357,716; Nov. 2; v. 280; p. 98.
Lundstrom, Carl G., Ames, Iowa. Resilient tire. No. 1,362,123; Dec. 14; v. 281; p. 276.
Lundstrom, Roy E., St. Paul, Minn. Toy submarine. No. 1,356,377; Oct. 19; v. 279; p. 472.
Lundstrom, Victor N., Clarissa, Minn. Draft appliance. No. 1,327,871; Jan. 13; v. 270; p. 246.
Lundy, George B., Niagara Falls, South, Ontario, Canada. Auxiliary floor for threshing-machines. No. 1,338,142; Apr. 27; v. 273; p. 666.
Lundy, Joseph G., Evergreen, Ala. Garden plow or cultivator. No. 1,340,784; May 18; v. 274; p. 534.
Lundy, Lundy S., Niagara Falls, Ontario, Canada, assignor to A. van den Boom and J. W. Slate, Walnut Cove, N. C. Collapsible box. No. 1,348,725; Aug. 3; v. 277; p. 115.
Lunenfeld, Isidor, Brantford, Ontario, Canada. Ash-sifter. No. 1,351,296; Aug. 31; v. 277; p. 850.
Lungstras Dyeing & Cleaning Company. (See Owens, William A., assignor.) (Reissue.)
Lunken, Edmund H., Cincinnati, Ohio. Pocket-window. No. 1,336,145; Apr. 6; v. 273; p. 84.
Luntsford, Granville E., Corning, Ark. Train-order-delivery mechanism. No. 1,333,723; Mar. 16; v. 272; p. 406.
Luoma, Matt, Astoria, Oreg. Angle-indicator. No. 1,342,335; June 1; v. 275; p. 141.
Luplow, Ronald, Phoenix, Ariz. Combination automatic automobile-lock. No. 1,327,601; Jan. 6; v. 270; p. 135.
Lupo, James A., Homer, La. Wear-compensating device. No. 1,329,982; Feb. 3; v. 271; p. 119.
Luppino, Joseph, Brooklyn, N. Y. Davenport sofa-bed. No. 1,334,768; Mar. 23; v. 272; p. 648.
Lupton, Henry W., Los Gatos, Calif. Tractor. No. 1,327,485; Jan. 6; v. 270; p. 112.
Lupton's, David, Sons Co. (See Levene, Albert H., assignor.)
Lurie, William A., New Orleans, La. Door-lock. No. 1,352,010; Sept. 7; v. 278; p. 59.
Luschka, August R., and J. Folk, assignors to U. S. Slicing Machine Company, Laporte, Ind. Work-holder for slicing-machines. No. 1,356,165; Oct. 19; v. 279; p. 431.
Luse, William J., New York, N. Y. Automatic fire-alarm. No. 1,344,701; June 29; v. 275; p. 852.
Lusk, Raymond F., assignor of one-half to J. H. Monroe, Lima, Ohio. Shaft-bearing. No. 1,354,259; Sept. 28; v. 278; p. 641.
Lussier, Henry, Salem, assignor to Draper Corporation, Hopedale, Mass. Stopping mechanism for looms. No. 1,342,555; June 8; v. 275; p. 237.
Luten, Daniel B., Indianapolis, Ind. Arch construction. No. 1,334,871; Mar. 23; v. 272; p. 568.
Luten, Daniel B., Indianapolis, Ind. Overhead crossing. No. 1,334,872; Mar. 23; v. 272; p. 669.
Luther, Clevia J., Eldorado, assignor of one-half to L. N. Parish, Harrisburg, Ill. Slide-rail holder. No. 1,333,322; Mar. 9; v. 272; p. 269.
Luther, William M., Walla Walla, Wash. Dehydrator. No. 1,353,167; Sept. 21; v. 278; p. 378.
Lüthi, Josef A., Lachen-Vonwil, Switzerland. Snap-hook. No. 1,352,982; Sept. 14; v. 278; p. 283.
Luthy, Joseph O., San Antonio, Tex. Separator for secondary batteries. No. 1,331,018; Feb. 17; v. 271; p. 415.
Luthy, Joseph O., San Antonio, Tex. Separator for storage-battery plates. No. 1,339,853; May 11; v. 274; p. 301.
Lutkins, Clinton S. (See Ellis, Carleton, assignor.)

Digitized by Google

Lutolf, Josef, assignor to Swiss Manufacturing Company, San Francisco, Calif. Faucet. No. 1,330,379; Feb. 10; v. 271; p. 225.
Luttinger, William G., Jerome, Ariz. Burner. No. 1,346,904; July 20; v. 276; p. 432.
Luttrell, Edward J., New York, N. Y. Plastic-block mold. No. 1,339,270; May 4; v. 274; p. 114.
Luttrell, John D., Benton Harbor, Mich., assignor to Service Carbide Lamp Company, Terre Haute, Ind. Acetylene-gas generator. No. 1,336,573; Apr. 13; v. 273; p. 224.
Lutz, Alvin A., Mount Jackson, Va. Belt key-holder. No. 1,341,811; June 1; v. 275; p. 39.
Lutz, George, Cambridge, Mass. Piano. No. 1,331,572; Feb. 24; v. 271; p. 537.
Lutz, George H., Buffalo, N. Y. Revolving-cylinder engine. No. 1,335,065; Mar. 30; v. 272; p. 764.
Lutz, Julius H., New York, N. Y. Clasp for necklaces and the like. No. 1,347,515; July 27; v. 276; p. 609.
Lutz, Otto H. (See Griswold, J. H., and Lutz.)
Lutz, Theodore C., assignor to Great Lakes Dredge & Dock Company, Chicago, Ill. Tremie. No. 1,363,665; Dec. 28; v. 281; p. 666.
Lutz, William D., Allendale, N. J. Electric bell. No. 1,327,340; Jan. 6; v. 270; p. 85.
Lutz, William D., Allendale, N. J. Inflating device for pneumatic apparatus. No. 1,328,088; Jan. 13; v. 270; p. 287.
Lutz, William H., Philadelphia, Pa. Rug-rolling machine. No. 1,342,556; June 8; v. 275; p. 237.
Lux Clock Manufacturing Company, The. (See Lux, Paul, assignor.)
Lux, Lulu C., Thompson Falls, Mont. Hen's nest. No. 1,345,205; June 29; v. 275; p. 949.
Lux, Paul, assignor to The Lux Clock Manufacturing Company, Inc., Waterbury, Conn. Pawl-spring. No. 1,338,641; Apr. 27; v. 273; p. 759.
Lychyj, Iwan, Sault Ste. Marie, Ontario, Canada. Engine-driven air-compressor. No. 1,343,270; June 15; v. 275; p. 441.
Lydecker, John G., New York, N. Y., assignor of one-half to W. F. Cleary, Hawthorn, N. J. Motorcycle-support. No. 1,338,029; Apr. 27; v. 273; p. 645.
Lykken, Henry G., Minneapolis, Minn. Emergency-tire. No. 1,357,788; Nov. 2; v. 280; p. 112.
Lyle, Fate, Benton, Tenn. Automatic train-stopping means. No. 1,332,783; Mar. 2; v. 272; p. 106.
Lyle, Henry C., Beaumont, Tex. Tool-joint. No. 1,349,518; Aug. 10; v. 277; p. 323.
Lyle, Jesse L., and J. F. Broom, Danville, Va. Bunch-builder. No. 1,362,711; Dec. 21; v. 281; p. 442.
Lyman, Charles E., Asheville, N. C. Road-signal. No. 1,356,455; Oct. 19; v. 279; p. 487.
Lyman, Clarence M., New Hartford, and F. R. Butters, assignors to International Heater Company, Utica, N. Y. Furnace. No. 1,358,861; Nov. 16; v. 280; p. 431.
Lyman, Frank T., and F. J. Klimm, San Francisco, Calif. Drinking-fountain. No. 1,349,775; Aug. 17; v. 277; p. 446.
Lyman, John L., Easthampton, Mass. Garment-hanger. No. 1,335,902; Apr. 6; v. 273; p. 37.
Lyman, Kent E., Cleveland, Ohio. Bearing-lubricating device. No. 1,349,076; Aug. 10; v. 277; p. 235.
Lyman, Richard J., Kapoho, Puna, Hawaii. Circuit-closer for vehicle-signals. No. 1,331,019; Feb. 17; v. 271; p. 415.
Lynah, James, Newburgh, N. Y., assignor to du Pont Fabrikoid Company, Wilmington, Del. Producing artificial leather and product thereof. No. 1,350,281; Aug. 17; v. 277; p. 543.
Lynch, Bernard W., Wilmette, Ill. Check-book. No. 1,329,002; Jan. 27; v. 270; p. 526.
Lynch, Dixon F., Monticello, Ga. Pliers. No. 1,331,443; Feb. 17; v. 271; p. 494.
Lynch, Elizabeth, Minneapolis, Minn. Screen. No. 1,332,131; Feb. 24; v. 271; p. 642.
Lynch, James H., Buffalo, N. Y. Switch-point protector. No. 1,341,330; May 25; v. 274; p. 710.
Lynch, John. (See Grigsby, Arle, assignor.)
Lynch, John. (See King, Edward, assignor.)
Lynch, John J., Wason Flats, Mont. Concrete mixer and conveyer. No. 1,349,285; Aug. 10; v. 277; p. 277.
Lynch, John T., Toledo, Ohio. Pencil. No. 1,329,420; Feb. 3; v. 271; p. 14.
Lynch, Joseph F., Stockton, Calif. Automobile direction-signal. No. 1,357,504; Nov. 2; v. 280; p. 57.
Lynch, Robert J., Tamaqua, Pa. Stilt. No. 1,347,958; July 27; v. 276; p. 697.
Lynch, William J., Buffalo, N. Y. Dish-holding tray or basket. No. 1,341,717; June 1; v. 275; p. 20.
Lynd, Robert J., *et al.* (See Alcorn, John S., assignor.)
Lynde, Francis G., Belvedere, England. Concrete-mold. No. 1,343,572; June 15; v. 275; p. 500.
Lynde, Frederick C., Manchester, England. Pad used on crutches, artificial limbs, and sticks. No. 1,340,616; May 18; v. 274; p. 503.
Lynde, Frederick C., Manchester, England. Pad used on crutches, artificial limbs, and sticks. No. 1,340,617; May 18; v. 274; p. 503.
Lynds, Jesse H., Muskogee, Okla. Wrench. No. 1,359,403; Nov. 16; v. 280; p. 535.
Lynn, Alger M. (See Richardson, B. E., and Lynn.)
Lynn, John, New York, N. Y. Circuit-controller. No. 1,361,077; Dec. 7; v. 281; p. 19.
Lynn, John H., Coplay, Pa. Antislipping device for shoes. No. 1,361,078; Dec. 7; v. 281; p. 19.
Lynn, John P. (See Kaufmann, M. M., and Lynn.)
Lynn, Nathan O., Mendon, Mich. Water-heater. No. 1,328,161; Jan. 13; v. 270; p. 301.
Lynn, Thomas H. (See Steel, C. C., and Lynn.)
Lynn, Walter R. (See Barker, F. R., and Soper.)
Lyon, Austion, Poughkeepsie, N. Y. Aerial literature-distributer. No. 1,360,422; Nov. 30; v. 280; p. 849.
Lyon, Frank A., Milford, N. Y. Draft-equalizer. No. 1,350,821; Aug. 24; v. 277; p. 695.
Lyon, Fred C., Fayette, Ohio. Phonograph-horn. No. 1,349,286; Aug. 10; v. 277; p. 277.
Lyon, Fred M., Pontiac, Ill. Corn-grinder. No. 1,350,261; Aug. 17; v. 277; p. 539.
Lyon, George A., Philadelphia, Pa. Retainer-attacher for vehicle-buffers. No. 1,351,049; Aug. 31; v. 277; p. 801.
Lyon, George A., Philadelphia, Pa. Looped-attacher automobile-buffer. No. 1,351,050; Aug. 31; v. 277; p. 802.
Lyon, George A., Philadelphia, Pa. Resilient-loop-attacher bumper. No. 1,357,505; Nov. 2; v. 280; p. 57.
Lyon, George A., Philadelphia, Pa. Stiffened-front automobile-buffer. No. 1,357,506; Nov. 2; v. 280; p. 57.
Lyon, George A., Philadelphia, Pa. Adjustable-attachment buffer. No. 1,357,507; Nov. 2; v. 280; p. 57.
Lyon, George A., Philadelphia, Pa. Automobile-buffer attacher. No. 1,358,687; Nov. 9; v. 280; p. 351.
Lyon, George A., Philadelphia, Pa. Automobile-buffer attacher. No. 1,358,688; Nov. 9; v. 280; p. 352.
Lyon, George A., Philadelphia, Pa. Automobile-buffer attacher. No. 1,358,689; Nov. 9; v. 280; p. 352.
Lyon, George A., Arlington Heights, Mass. Work-stand. No. 1,363,478; Dec. 28; v. 281; p. 630.
Lyon, Harry A., Kansas City, Mo., assignor of one-half to J. L. Orr, Springfield, Ohio. Automatic water-feed for ensilage apparatus. No. 1,347,392; July 20; v. 276; p. 528.
Lyon & Healy. (See Jefferson, B. H., and Kirk, assignors.)
Lyon & Healy. (See Kirk, Walter I., assignor.)
Lyon, Horace K., Tulsa, Okla. Apparatus for producing sulfur dioxid. No. 1,337,561; Apr. 20; v. 273; p. 486.
Lyon, Jesse D., assignor to the Fulname Company, Cincinnati, Ohio. Golf-ball marker. No. 1,339,569; May 11; v. 274; p. 247.
Lyon Metallic Manufacturing Company. (See Gerberich, Clarence E., assignor.)
Lyon Metallic Manufacturing Company. (See O'Connor, John B., assignor.)
Lyon, Robert V., Dickinson, N. D. Means for relieving strain on vehicle-frames. No. 1,330,484; Feb. 10; v. 271; p. 244.
Lyon, Theo. B., *et al.*, trustees. (See Stringham, George R., assignor.)
Lyon, W. Wallace, *et al.*, trustees. (See Stringham, George R., assignor.)
Lyons, Alfred E., San Jose, Calif. Auto-top. No. 1,353,925; Sept. 28; v. 278; p. 572.
Lyons, Arthur H. (See Bickhart, Franklin R., assignor.)
Lyons, Arthur R., Carroll, Iowa. Reversing propeller. No. 1,348,432; Aug. 3; v. 277; p. 60.
Lyons, Frank F., Stockton, Calif. Ditch-digging machine. No. 1,343,734; June 15; v. 275; p. 533.
Lyons, Harriet R., Huntington, W. Va., assignor to The William Carter Company, Needham Heights, Mass. Undergarment. No. 1,364,058; Dec. 28; v. 281; p. 742.
Lyons, William, *et al.* (See Curtis, Arthur A., assignor.)
Lysen, Ernest. (See Beanshene, P., and Lysen.)
Lyster, Fleury J., assignor, by mesne assignments, to Minerals Separation North American Corporation, Broken Hill, New South Wales, Australia. Apparatus for the concentration of ores. No. 1,352,072; Sept. 7; v. 278; p. 69.
Lyster, Gilbert H. (See Goodwin, George N., assignor.)
Lyth, John J. (See Lowe, J., and Lyth.) (Reissue.)
Lytle, Floyd C., Jasper, Minn. Cleaning and polishing composition. No. 1,334,464; Mar. 23; v. 272; p. 590.
Lytle, James D., Baltimore, Md. Top-spinner. No. 1,334,873; Mar. 23; v. 272; p. 669.
Lytle, John B., New Holland, Ohio. Fender for ground-treating implements. No. 1,359,404; Nov. 16; v. 280; p. 535.
Lytle, John H., and J. J. McFarland, Milwaukee, Wis. Carbureter. No. 1,339,403; May 11; v. 274; p. 215.
Lytle, William J. (See Milner, E. E., and Lytle.)
Lyttle, Murray H., Chicago, Ill. Safety-desk. No. 1,358,961; Nov. 16; v. 280; p. 450.
Lytton, Cullen L., Gastonia, N. C. Tool for attaching paper tubes to winders. No. 1,343,632; June 15; v. 275; p. 512.
Lytwynec, Dmytro, Hafford, Saskatchewan, Canada. Combination bed and chair. No. 1,347,748; July 27; v. 276; p. 656.
McAdam, Charles E., Chicago, Ill. Bleaching and cleaning composition. No. 1,335,171; Mar. 30; v. 272; p. 785.
McAdam, Dunlap J., Jr., Baltimore, Md., assignor to Tinius Olsen Testing Machine Company, Philadelphia, Pa. Testing. No. 1,329,192; Jan. 27; v. 270; p. 561.

Digitized by Google

Alphabetical list of patentees—Continued.

McAdam, John V., U. S. Army, assignor to N. D. Baker, Secretary of War, trustee. Primer-casing. No. 1,362,021; Dec. 14; v. 281; p. 255.
McAdams, Victor W., Denver, Colo. Humidifying apparatus. No. 1,343,873; June 15; v. 275; p. 561.
McAllan, James, Toronto, Ontario, Canada. Bedstead. No. 1,349,287; Aug. 10; v. 277; p. 277.
McAllaster, George R., Rochester, N. Y. Folding bed. No. 1,337,321; Apr. 20; v. 273; p. 441.
McAllaster, George R., Rochester, N. Y. Folding bed. No. 1,344,450; June 22; v. 275; p. 738.
McAllister, Albert, assignor to Aspromet Company, Pittsburgh, Pa. Sash-operating mechanism. No. 1,337,461; Apr. 20; v. 273; p. 467.
McAllister, Cyrus A. (See Hodges, Allan R., assignor.)
McAllister, Frank A. (See Horstmann, Ernst E., assignor.)
McAllister, Lawrence E., Bellaire, Ohio. Method and apparatus for determination of moisture in solid materials. No. 1,347,106; July 20; v. 276; p. 472.
McAllister, Thomas A., Augusta, Ga. Vulcanizing. No. 1,340,965; May 25; v. 274; p. 639.
McAllister, William H., Linden, Pa. Caster. No. 1,344,418; June 22; v. 275; p. 732.
McAlpine, George L., Catford, assignor to J. J. Griffin & Sons, Limited, Holborn, England. Firing mechanism for shells and other explosive missiles. No. 1,337,525; Apr. 20; v. 273; p. 480.
McAlpine, Gustavus, London, England. Electric relay. No. 1,360,235; Nov. 23; v. 280; p. 744.
McAneny, William A., and D. T. May, assignors to The McMurtry Manufacturing Company, Denver, Colo. Fountain-humidor-box-lid support. No. 1,327,872; Jan. 13; v. 270; p. 247.
McAnulty, Andrew, Ottawa, Ontario, Canada. Razor. No. 1,360,423; Nov. 30; v. 280; p. 849.
McArdle, Fred W., Boston, Mass. Scale for weighing mail-matter. No. 1,340,280; May 18; v. 274; p. 438.
McArdle, Peter C., Chicago, Ill. Concrete-surface-finishing machine. No. 1,344,916; June 29; v. 275; p. 894.
McArthur, Charles H., Cleveland, Ohio. Separating-machine. No. 1,336,848; Apr. 13; v. 273; p. 277.
McArthur, Clyde E. (See Schmidt, J. E., and McArthur.)
McArthur, Cyrus W., Silverton, Colo. Multiple-port fusion-valve. No. 1,358,862; Nov. 16; v. 280; p. 431.
McArthur, George P., Rockledge, Pa. Pipe-bending mechanism. No. 1,353,168; Sept. 21; v. 278; p. 379.
McArthur, Herbert A., Montreal, Quebec, Canada. Milking-machine. No. 1,351,337; Aug. 31; v. 277; p. 859.
McArthur, John O., Council Bluffs, Iowa. Crosshead. No. 1,348,287; Aug. 3; v. 277; p. 31.
McArthur, Warren, Jr., Phoenix, Ariz. Radiator-cap. No. 1,345,379; July 6; v. 276; p. 10.
McAssey, Rollin O., San Diego, Calif. Priming device for gasolene-engines. No. 1,344,805; June 29; v. 275; p. 873.
McAuliffe, J. C., *et al.* (See Palmer, Otto F., assignor.)
McAuliffe, John C., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,330,202; Feb. 10; v. 271; p. 192.
McAuliffe, John E. (See Gilpin, V. C., and McAuliffe.)
McAuliffe, John W., Pelham, N. Y. Sanitary package of individual sealed cartons. No. 1,338,315; Apr. 27; v. 273; p. 699.
McAvoy, Francis J., Newark, N. J. Automatic train-stop. No. 1,340,068; May 11; v. 274; p. 341.
McAvoy, Francis J., Newark, N. J. Locking device for eccentric bushings. No. 1,348,022; July 27; v. 276; p. 710.
McAvoy, Francis J., Newark, N. J. Locking device for eccentric bushings. No. 1,348,023; July 27; v. 276; p. 710.
McAvoy, John A., assignor to McAvoy Manufacturing Company, Chicago, Ill. Imitation-beveled-glass panel. No. 1,345,792; July 6; v. 276; p. 91.
McAvoy Manufacturing Company. (See McAvoy, John A. assignor.)
McBee Binder Company, The. (See McBee, Charles F., assignor.)
McBee, Charles F., Athens, Ohio. Bookbinding-machine. No. 1,333,123; Mar. 9; v. 272; p. 232.
McBee, Charles F., Athens, Ohio. Loose-leaf file. No. 1,362,951; Dec. 21; v. 281; p. 487.
McBee, Charles F., assignor to The McBee Binder Company, Athens, Ohio. Perforating device. No. 1,338,457; Apr. 27; v. 273; p. 725.
McBride, Bert, Ada, Ohio. Bag-holder. No. 1,336,530; Apr. 13; v. 273; p. 215.
McBride, Bert, Ada, Ohio. Separator for grinding-mills. No. 1,360,125; Nov. 23; v. 280; p. 723.
McBride, David, Wilmington, Del. Baggage-car-side-door hanger. No. 1,328,442; Jan. 20; v. 270; p. 391.
McBride, James P., Seattle, Wash. Bolting-up and plate-tightening machine. No. 1,353,600; Sept. 21; v. 278; p. 464.
McBride, Jesse E., Highland Park, assignor to Palmer-Bee Company, Detroit, Mich. Apparatus for conveying automobile bodies and the like. No. 1,344,419; June 22; v. 275; p. 732.
McBride, Oscar C., Granite, Okla., assignor to W. H. Holtby, Mangum, Okla. Cotton gin. No. 1,345,206; June 29; v. 275; p. 949.
McBride, Robert W., Burley, Idaho. Hay-fork. No. 1,357,882; Nov. 2; v. 280; p. 130.
McBride, Thomas C., Philadelphia, Pa., assignor to Worthington Pump and Machinery Corporation. Feed-water-heating apparatus. No. 1,350,322; Aug. 24; v. 277; p. 597.
McCaa, David G., Elizabeth, N. J. Method of and apparatus for electrical communication. No. 1,344,275; June 22; v. 275; p. 703.
McCaa, David G., Lancaster, Pa. High-frequency generating system. No. 1,360,126; Nov. 23; v. 280; p. 723.
McCabe, John J. (See La Rose, Eugene E., assignor.)
McCabe, Thomas W. R., Waterbury, Conn. Time-fuse mechanism. No. 1,333,667; Mar. 16; v. 272; p. 895.
McCabe, Thomas W. R., Waterbury, Conn., assignor to C. H. Hasbrouck, Binghamton, N. Y. Check-printing machine. No. 1,353,926; Sept. 28; v. 278; p. 573.
McCadden, J. E., *et al.* (See Deutsch, F., and Riedling, assignors.)
McCaffery, Richard S., Madison Wis. Bessemerizing iron. No. 1,338,655; Apr. 27; v. 273; p. 762.
McCaffrey, Andrew A., Providence, R. I. Garment-hanger. No. 1,336,849; Apr. 13; v. 273; p. 277.
McCaffrey, Edward, Spokane, Wash. Pipe roof-flashing. No. 1,334,386; Mar. 23; v. 272; p. 576.
McCaffrey, Thomas J., Seattle, Wash. Tire. No. 1,354,984; Oct. 5; v 279; p. 107.
McCahon, Thomas S., Chicago, Ill. Automatic means for draining crude-oil tanks. No. 1,329,983; Feb. 3; v. 271; p. 119.
McCain, George L., assignor to Packard Motor Car Company, Detroit, Mich. Making valve tappet and roller holders for hydrocarbon-motors. No. 1,345,942; July 6; v. 276; p. 122.
McCain, George L., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,345,943; July 6; v. 276; p. 122.
McCain, George L., assignor to Packard Motor Car Company, Detroit, Mich. Change-gear transmission. No. 1,356,641; Oct. 26; v. 279; p. 570.
McCain, Samuel H., Jr., San Francisco, Calif. Nut-lock. No. 1,350,230; Aug. 17; v. 277; p. 533.
McCaleb, Albert G., assignor to A. L. Payton, Chicago, Ill. Fuel-feed for carbureters. No. 1,331,445; Feb. 17; v. 271; p. 493.
McCaleb, Walter F., Dallas, Tex. Combined adding and listing machine. No. 1,337,844; Apr. 20; v. 273; p. 540.
McCallister, Thomas F., Prineville, Oreg. Motor-tractor. No. 1,339,271; May 4; v. 274; p. 114.
McCallen, Robert E., Prescott, Ariz. Shoe-lace hook. No. 1,363,523; Dec. 28; v. 281; p. 639.
McCallum, Daniel W., St. Louis, Mo. Automatic gate. No. 1,354,320; Sept. 28; v. 278; p. 653.
McCallum, David R. (See Hinson, John K., assignor.)
McCallum, Edgar, Boston, assignor of one-half to J. A. Sherman, Worcester, Mass. Holder. No. 1,342,853; June 8; v. 275; p. 296.
McCallum, Herbert A., Yonkers, N. Y. View-finder for cameras. No. 1,340,618; May 18; v. 274; p. 503.
McCallum, Herbert A., Yonkers, N. Y. View-finder for cameras. No. 1,340,619; May 18; v. 274; p. 503.
McCallum, James D., Longueuil, Quebec, Canada. Squaring instrument. No. 1,358,009; Nov. 9; v. 280; p. 216.
McCann, Aaron A., Riverside, Calif. Headrest for automobiles. No. 1,358,644; Nov. 9; v. 280; p. 342.
McCann, Andrew, Northbend, Wash. Automatic balance-brake. No. 1,330,641; Feb. 10; v. 271; p. 273.
McCann, Charles A., Springfield, Ill. Gate. No. 1,350,323; Aug. 24; v. 277; p. 597.
McCann, George M. (See Stambaugh, H. J., and McCann.)
McCann, James. (See McCann, Joseph L., J. P., and J.)
McCann, John. Paterson, N. J. Shuttle. No. 1,346,037; July 6; v. 276; p. 140.
McCann, John P. (See McCann, Joseph L., J. P., and J.)
McCann, Joseph L., J. P., and J., Bridgeport, Conn. Collapsible tent-frame. No. 1,347,107; July 20; v. 276; p. 472.
McCann, Ronald A., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. No. 1,335,381; Mar. 30; v. 272; p. 824.
McCann, Ronald A., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. No. 1,344,917; June 29; v. 275; p. 894.
McCann, Ronald A., assignor to Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling system. No. 1,363,257; Dec. 28; v. 281; p. 588.
McCarroll, Edward W., Pittsburgh, Pa. Adjustable mirror attachment. No. 1,342,854; June 8; v. 275; p. 297.
McCarroll, Frank, Dallas, Tex. Folding landing-gear for aircraft. No. 1,329,533; Feb. 3; v. 271; p. 36.
McCarroll, Frank, Dallas, Tex. Foldable landing-gear for aeroplanes. No. 1,353,407; Sept. 21; v. 278; p. 425.
McCarroll, William J., Philadelphia, Pa. Means for controlling the draft in locomotive smoke-boxes. No. 1,333,861; Mar. 16; v. 272; p. 431.
McCart, Robert, Jr., El Paso, Tex. Record-filing cabinet. No. 1,349,466; Aug. 10; v. 277; p. 312.

Digitized by Google

McCarte, Samuel W., Pittsburgh, Pa. Necktie-smoothing device. No. 1,335,382; Mar. 30; v. 272; p. 824.
McCarter, George, Denver, Colo. Coal-mining machine. No. 1,336,039; Apr. 6; v. 273; p. 63.
McCarthy, Charles S., Jr., Sandusky, Ohio. Cultivator. 1,344,138; June 22; v. 275; p. 677.
McCarthy, Daniel J., Elgin, assignor to Chicago Railway Signal and Supply Company, Carpentersville, Ill. Adjustable engaging device for machine elements. No. 1,333,500; Mar. 9; v. 272; p. 302.
McCarthy, Daniel J., Elgin, assignor to Chicago Railway Signal and Supply Company, Carpentersville, Ill. Controlling-switch. No. 1,333,501; Mar. 9; v. 272; p. 303.
McCarthy, Edward F. (See Skidmore, B., Jr., and McCarthy.)
McCarthy, Florence M., assignor of one-half to J. W. Byrnes, St. Louis, Mo. Leather-working machine. No. 1,354,572; Oct 5; v. 279; p. 25.
McCarthy, Frank. (See Ofeldt, Frank W., assignor.)
McCarthy, Frank R., and E. C. Combs, Ponca City, Okla. Gate-valve lock. No. 1,357,463; Nov. 2; v. 280; p. 50.
McCarthy, John, Bellevue, Mich. Fencepost. No. 1,332,734; Mar. 2; v. 272; p. 107.
McCarthy, John H., Lyons, assignor to E. J. Doyle, Rochester, N. Y. Combined sleigh and wheel coaster. No. 1,350,929; Aug. 24; v. 277; p. 715.
McCarthy, John M., Chicago, Ill. License-indicator. No. 1,336,706; Apr. 13; v. 273; p. 250.
McCarthy, Lawrence J., assignor to Sears, Roebuck and Co., Chicago, Ill. Finger-protector. No. 1,359,717; Nov. 23; v. 280; p. 642.
McCarthy, Mary A. C., New York, N. Y. Necktie-ironing board. No. 1,356,378; Oct. 19; v. 279; p. 472.
McCarthy, Maurice P., Hartford, Conn. Gaiting-strap. No. 1,354,410; Sept. 28; v. 278; p. 671.
McCarthy, Michael M. (See Lichtenberg, F., and McCarthy.)
McCarthy, Thomas J., Newark, N. J. Vapor-primer for automobiles. No. 1,328,089; Jan. 13; v. 270; p. 287.
McCarthy, Thomas J., Newark, N. J. Brake-lock for automobiles. No. 1,362,124; Dec. 14; v. 281; p. 276.
McCarthy, William B., Jackson, Miss. Self-serving store. No. 1,348,024; July 27; v. 276; p. 711.
McCarthy, William J., Ottawa, Ontario, Canada. Loose-leaf binder. No. 1,333,124; Mar. 9; v. 272; p. 232.
McCarthy, William J., Ottawa, Ontario, Canada. Leaf-projecting device for loose-leaf binders. No. 1,341,062; May 25; v. 274; p. 659.
McCartney, Elmer B., assignor to Toro Motor Company, Minneapolis, Minn. Convertible cultivator-tractor. No. 1,345,498; July 6; v. 276; p. 34.
McCartney, Leslie C., Lincoln, Nebr. Hog-waterer. No. 1,341,919; June 1; v. 275; p. 60.
McCartney, Leslie C., Lincoln, Nebr. Hog-watering fountain. No. 1,341,920; June 1; v. 275; p. 60.
McCarty, Florence R., Erie, Pa. Mandrel for making inner tubes for pneumatic tires. No. 1,344,702; June 29; v. 275; p. 853.
McCarty, Thomas A., assignor of one-half to A. N. Corely, Washington, D. C. Weather-vane. No. 1,359,406; Nov. 16; v. 280; p. 536.
McCarty, William F., assignor to Defiance Machine Works, Defiance, Ohio. Tenoning and equalizing machine. No. 1,337,143; Apr. 13; v. 273; p. 333.
McCarty, William F., assignor to Defiance Machine Works, Defiance, Ohio. Means for lubricating machine-tools. No. 1,337,931; Apr. 20; v. 273; p. 557.
McCashen, Joseph H. (See Strohl, H. B., Imboden, and McCashen.)
McCaskell, Jasper A., Salt Lake City, Utah. Shock-absorber. No. 1,332,506; Mar. 2; v. 272; p. 64.
McCaskell, Jasper A., Salt Lake City, Utah. Filtering-belt. No. 1,338,232; Apr. 27; v. 273; p. 683.
McCasland, Charles O., St. Louis, Mo. Liquid-dispensing machine. No. 1,347,108; July 20; v. 276; p. 472.
McCaughan, Joanna V., Long Beach, Miss. Trap. No. 1,329,128; Jan. 27; v. 270; p. 550.
McCaul, Benjamin V., and V. J., and F. L. Bayley, Ayr, N. D. Clutch and operating means therefor. No. 1,359,407; Nov. 16; v. 280; p. 536.
McCaul, Verne J. (See McCaul, B. V., V. J., and Bayley.)
McCauley, John, New York, N. Y. Folding crate. No. 1,342,750; June 8; v. 275; p. 275.
McCaulley, Charles G., Washington, D. C., assignor to The Rail Joint Company, New York, N. Y. Insulated and armored rail-joint. No. 1,351,666; Aug. 31; v. 277; p. 924.
McCausland, William A., Pittsburgh, Pa. Well-drilling tool. No. 1,342,855; June 8; v. 275; p. 297.
McChesney, J. S., & Co. (See McChesney, John S., assignor.)
McChesney, John S., Chicago, Ill. Wire-tying. No. 1,357,883; Nov. 2; v. 280; p. 130.
McChesney, John S., Chicago, Ill. Wire-tying. No. 1,360,237; Nov. 23; v. 280; p. 745.
McChesney, John S., assignor to J. S. McChesney & Co., Chicago, Ill. Wire-tying appliance. No. 1,360,236; Nov. 23; v. 280; p. 744.
McChesney, Presley B., Princeton, Ky. Propelling means for motors. No. 1,349,077; Aug. 10; v. 277; p. 235.
McChesney, William, London, England. Hydro-extractor. No. 1,362,712; Dec. 21; v. 281; p. 442.
McClain, Hubert, J., Rockville, Ind. Electric toaster. No. 1,330,642; Feb. 10; v. 271; p. 274.
McClain, Hugh F., Protection, Kans. Automobile-radiator shield. No. 1,358,224; Nov. 9; v. 280; p. 258.
McClain, John B., Brooklyn, N. Y. Soft-metal furnace. No. 1,362,429; Dec. 14; v. 281; p. 335.
McClain, John R., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Finished surface for articles of manufacture. No. 1,343,216; June 15; v. 275; p. 432.
McClain, William, Manufacturing Company. (See McClain, William D., assignor.)
McClain, William D., assignor to William McClain Manufacturing Company, Chicago, Ill. Liquid-dispenser. No. 1,334,769; Mar. 23; v. 272; p. 648.
McClair, Alice P., Atlanta, Ga. Revolving window-frame. No. 1,346,663; July 13; v. 276; p. 325.
McClary, Earl E. and E. B., Pittsburg, Kans. Adjustable footrest for high chairs. No. 1,334,771; Mar. 23; v. 272; p. 649.
McClary, Edith B. (See McClary, Earl E. and E. B.)
McClary, Wallin and Crouse. (See Lea, Charles, assignor.)
McClaskey Register Company, The. (See Devers, Clyde E., assignor.)
McClave-Brooks Company. (See McClave, William, assignor.)
McClave, William, assignor to McClave-Brooks Company, Scranton, Pa. Steam-turbine blower. No. 1,328,285; Jan. 20; v. 270; p. 361.
McClave, William, assignor to McClave-Brooks Company, Scranton, Pa. Steam-turbine blower. No. 1,328,286; Jan. 20; v. 270; p. 361.
McClay, Samuel R., Canton, Ohio. Antislipping device for vehicle-wheels. No. 1,341,331: May 25; v. 274; p. 710.
McClellan, Benjamin S., Chicago, Ill. Window. No. 1,329,003; Jan. 27; v. 270; p. 526.
McClellan, Curtis D., and J. Flynn, Washington, Iowa. Figured toy. No. 1,337,932; Apr. 20; v. 273; p. 557.
McClellan, Edward J., New York, N. Y., assignor to Garvin Machine Company. Chuck. No. 1,334,772; Mar. 23; v. 272; p. 649.
McClellan, James L., Brookline, Mass. Shoe-stiffener. No. 1,353,968; Sept. 28; v. 278; p. 581.
McClellan, Walter N., Brooklyn, N. Y. Automatic railway-car door. No. 1,333,430; Mar. 9; v. 272; p. 289.
McClelland, John, Philadelphia, Pa. Combined spark-timer and oil-pump. No. 1,344,953; June 29; v. 275; p. 900.
McClellon, James M., Everett, Mass. Boiler and firebox construction. No. 1,341,474; May 25; v. 274; p. 739.
McClellon, James M., Everett, Mass. Boiler. No. 1,341,475; May 25; v. 274; p. 739.
McClenahan, Walter, San Francisco, Calif. Rail. No. 1,340,454; May 18; v. 274; p. 472.
McClenon, Raymond W., Franklin, N. Y. Door-opening mechanism. No. 1,356,077; Oct. 19; v. 279; p. 413.
McClimon, Jay S. (See Rogers and McClimon.)
McClimon, Jay S. (See Rogers, J. F., McClimon, and Wetherill.)
McClintock, Aldyth, *et al.* (See McClintock, Charles D., assignor.)
McClintock, Charles D., deceased; Rio Grande Valley Bank & Trust Co., administrator, assignor to H. R. McClintock, El Paso, Tex., trustee of six-tenths for himself and four-tenths for M. B. McClintock and A. McClintock. Vaporizing liquids and apparatus used in connection therewith. No. 1,341,476; May 25; v. 274; p. 739.
McClintock, Charles D., deceased; Rio Grande Valley Bank & Trust Company, administrator, assignor to H. R. McClintock, trustee, El Paso, Tex., of six-tenths for himself and four-tenths for M. B. McClintock and A. McClintock. Vaporizing liquids. No. 1,363,136; Dec. 21; v. 281; p. 524.
McClintock, H. R., trustee, *et al.* (See McClintock, Charles D., assignor.)
McClintock, Mabel B., *et al.* (See McClintock, Charles D., assignor.)
McClosky, George J., assignor to Columbian Printing Company, Inc., Washington, D. C. Printing numbered bands. No. 1,341,186; May 25; v. 274; p. 682.
McCloud, Edward H., assignor to The Kinnear Manufacturing Company, Columbus, Ohio. Means for releasing the fastenings of metallic parts in case of fire. No. 1,332,946; Mar. 9; v. 272; p. 199.
McCloud, Edward H., assignor to The Kinnear Manufacturing Company, Columbus, Ohio. Brake for fire-shutters. No. 1,339,380; May 4; v. 274; p. 185.
McCloud, Edward H., assignor to The Kinnear Manufacturing Company, Columbus, Ohio. Door and the like. No. 1,342,751; June 8; v. 275; p. 275.
McCloud, Edward H., assignor to The Kinnear Manufacturing Company, Columbus, Ohio. Fire-resisting door. No. 1,349,519; Aug. 10; v. 277; p. 323.
McCloud, Michael J., New York, N. Y. Siphonic flushing apparatus. No. 1,349,683; Aug. 17; v. 277; p. 428.
McClure, Francis L., *et al.* (See Curtis, Jesse T., assignor.)
McClure, Royal A., and W. W. Boulton, assignors to Universal Elevated Railway Co., Seattle, Wash. Single railway-rail. No. 1,329,304; Jan. 27; v. 270; p. 581.

Digitized by Google

Alphabetical list of patentees—Continued.

McClure, Royal A., and W. W. Boulton, assignors to Universal Elevated Railway Co., Seattle, Wash. Railway-rail. No. 1,329,305; Jan. 27; v. 270; p. 582.
McClure, Royal A., and W. W. Boulton, assignors to Universal Elevated Railway Co., Seattle, Wash. Railway-rail coupling. No. 1,329,306; Jan. 27; v. 270; p. 582.
McClure, Royal A., and W. W. Boulton, assignors to Universal Elevated Railway Co., Seattle, Wash. Railway-car truck. No. 1,336,361; Apr. 6; v. 273; p. 124.
McClure, Royal A., and W. W. Boulton, assignors to Universal Elevated Railway Company, Seattle, Wash. Turntable. No. 1,336,362; Apr. 6; v. 273; p. 124.
McClure, Royal A., and W. W. Boulton, assignors to Universal Elevated Railway Company, Seattle, Wash. Driving apparatus for monorail-trucks. No. 1,345,867; July 6; v. 276; p. 106.
McClure, Silas, Beaver Dam, Wis. Corrosion-resisting ferrous alloy. No. 1,341,992; June 1; v. 275; p. 74.
McColl, Albert E., Dumbarton, Scotland, assignor of one-half to The General Electric Company, Limited, Birmingham, England. Combined differential and reverse power relay for the protection of generators and transformers. No. 1,354,573; Oct. 5; v. 279; p. 25.
McColl, Francis P., New York, N. Y. Container. No. 1,362,713; Dec. 21; v. 281; p. 442.
McColl, Francis P., Ridgewood, N. J., and W. W. Willison, assignors to Thermokept Products Corporation, New York, N. Y. Canning shredded cocoanut and article. No. 1,330,597; Feb. 10; v. 271; p. 265.
McColl, Francis P., Ridgewood, N. J., and W. W. Willison, assignors to Thermokept Products Corporation, New York, N. Y. Food compound. No. 1,335,383; Mar. 30; v. 272; p. 824.
McColl, Francis P., Ridgewood, N. J., and W. W. Willison, assignors to Thermokept Products Corporation, New York, N. Y. Can. No. 1,337,526; Apr. 20; v. 273; p. 480.
McColl, Francis P., Ridgewood, N. J., and W. W. Willison, New York, N. Y., assignors to Thermokept Products Corporation, New York, N. Y. Preserving sensitized photographic surfaces and article. No. 1,344,240; June 22; v. 275; p. 696.
McColl, Francis P., Ridgewood, N. J., and W. W. Willison, New York, assignors to Thermokept Products Corporation, New York, N. Y. Apparatus for canning. No. 1,345,380; July 6; v. 276; p. 11.
McCollough, Charles D., Des Moines, Iowa. Core for resilient tires. No. 1,362,714; Dec. 21; v. 281; p. 442.
McCollum, Alfred F., assignor to The Magee Carpet Co., Bloomsburg, Pa. Pile-cutting mechanism. No. 1,329,251; Jan. 27; v. 270; p. 572.
McCollum, Alfred F., assignor of three-fifths to James Magee, 2d, Bloomsburg, Pa. Tension device for winding-machines. No. 1,333,862; Mar. 16; v. 272; p. 431.
McCollum, Alfred F., assignor of three-fifths to James Magee, 2d, Bloomsburg, Pa. Means for securing thread ends on winding-machines. No. 1,333,863; Mar. 16; v. 272; p. 431.
McCollum, Ernest E., Mattoon, Ill. Shock-absorber. No. 1,341,274; May 25; v. 274; p. 699.
McColm, John D. (See Harwood, John, assignor.)
McComb, Richard J., Chicago, Ill. Manufacture of splice-bars for compromise rail-joints. No. 1,333,431; Mar. 9; v. 272; p. 289.
McComb, William M., assignor to W. J. Patterson, trustee, New York, N. Y. Converting liquid hydrocarbons. No. 1,337,144; Apr. 13; v. 273; p. 333.
McConnell, Charles D., and J. M. Bryson, Oskaloosa, Iowa. Motor-handling machine. No. 1,331,938; Feb. 24; v. 271; p. 606.
McConnell, George, Grand Rapids, Mich. Gluing-machine. No. 1,339,467; May 11; v. 274; p. 228.
McConnell, Grover C. (See Routt, O. L., McConnell, and Glaze.)
McConnell, Nathaniel W., Florence, Colo. Suspender. No. 1,352,903; Sept. 14; v. 278; p. 268.
McConnell, Thomas, New Kensington, Pa. Vacuum apparatus. No. 1,355,679; Oct. 12; v. 279; p. 294.
McConnell, Thomas, Lonsdale, R. I. Roof-covering. No. 1,358,863; Nov. 16; v. 280; p. 432.
McConway & Torley Company, The. (See Buhoup, Harry C., assignor.)
McConway & Torley Company, The. (See George, Enoch, Jr., assignor.)
McConway & Torley Company. (See Kelso, William, assignor.)
McConway & Torley Company, The. (See Kelso, William and J., assignors.)
McConway & Torley Company. (See McConway, William, Jr., assignor.)
McConway & Torley Company, The. (See Milliken, Isaac H., assignor.)
McConway & Torley Company, The. (See Regan, William J., assignor.)
McConway, William, Jr., assignor to The McConway & Torley Company, Pittsburgh, Pa. Car-coupling. No. 1,332,507; Mar. 2; v. 272; p. 64.
McConway, William, Jr., assignor to The McConway & Torley Company, Pittsburgh, Pa. Draft appliance for railway-vehicles. No. 1,362,022; Dec. 14; v. 281; p. 255.
McCook, Daniel M., Manchester, Ga. Water-gage. No. 1,347,701; July 27; v. 276; p. 646.
McCord, Alvin C., Chicago, Ill. Journal-box. No. 1,337,238; Apr. 30; v. 273; p. 425.
McCord, James R., Jr., St. Louis, Mo. Roofing-cleat. No. 1,332,223; Mar. 2; v. 272; p. 9.
McCord, James R., Jr., St. Louis, Mo. Securing means for fabric roofing material. No. 1,356,930; Oct. 26; v. 279; p. 627.
McCord, John D., assignor to San Pablo Oil Mills, Limited, Manila, Philippine Islands. Copra-drying apparatus. No. 1,341,655; June 1; v. 275; p. 8.
McCord Manufacturing Company. (See Harris, Joseph D., assignor.)
McCorkell, Charles, Phillipsburg, N. J. Barrel-packing machine. No. 1,359,082; Nov. 16; v. 280; p. 473.
McCorkindale, William P., Holyoke, Mass., assignor to Emily K. Dietz, Philadelphia, Pa. Towel-dispensing cabinet. No. 1,351,956; Sept. 7; v. 278; p. 49.
McCorkle, William E., Oak Station, Pa. Nut-depositor for confectionery-machines. No. 1,343,924; June 22; v. 275; p. 636.
McCormack, Andrew J., Rochester, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole-edge-treating machine. No. 1,352,209; Sept. 7; v. 278; p. 95.
McCormack, Anthony J., assignor to The Mac-Rim Company, New Haven, Conn. Horseshoe. No. 1,327,716; Jan. 13; v. 270; p. 218.
McCormack, George E., assignor to Ballou Manufacturing Company, Incorporated, Providence, R. I. Belt-clasp. No. 1,354,771; Oct. 5; v. 279; p. 65.
McCormack, Harry, assignor to Research Laboratory of Chicago, Chicago, Ill. Making manganates. No. 1,337,239; Apr. 20; v. 273; p. 425.
McCormack, Ira A., New York, N. Y. Lock. No. 1,343,271; June 15; v. 275; p. 441.
McCormack, Ira A., New York, N. Y. Seal for locks. No. 1,352,073; Sept. 7; v. 278; p. 70.
McCormick, A. L. (See Longworth, Otis L., assignor.)
McCormick, Alexander, Highland Park, Mich. Automatic toaster. No. 1,329,421; Feb. 3; v. 271; p. 14.
McCormick, Andrew, Herculaneum, Mo. Wheel-defect and coupling-limit gage. No. 1,346,224; July 13; v. 276; p. 238.
McCormick, Anthony P., Bridgeport, Pa. Egg-holder. No. 1,362,023; Dec. 14; v. 281; p. 256.
McCormick, Charles E., assignor to Mercury Body Corporation, Lexington, Ky. Automobiles. No. 1,360,656; Nov. 30; v. 280; p. 896.
McCormick, Charles W., Pittsburgh, Pa. Shaft-coupling. No. 1,343,272; June 15; v. 275; p. 442.
McCormick, John E. (See Hale, D. E., and McCormick.)
McCormick, Langdon, New York, N. Y. Theatrical appliance. No. 1,350,614; Aug. 24; v. 277; p. 656.
McCormick, Loyd S., Leavenworth, Kans. Automobile-steering-post lock. No. 1,353,408; Sept. 21; v. 278; p. 425.
McCormick, Merton H., New Willard, Tex. Band-saw. No. 1,354,439; Sept. 28; v. 278; p. 677.
McCormick, Oscar L., Birmingham, Ala. Vulcanizer's die for preserving antiskid tire-treads. No. 1,338,233; Apr. 27; v. 273; p. 683.
McCourt, Cyril D. (See Bone, W. A., Wilson, and McCourt.)
McCoy, Charles W., Sprague, Wash. Apparatus and process for cooling vehicles. No. 1,342,123; June 1; v. 275; p. 100.
McCoy, Earnest H., Schulter, Okla. Well-capping device. No. 1,335,588; Mar. 30; v. 272; p. 862.
McCoy, Elijah, assignor to Elijah McCoy Manufacturing Company, Detroit, Mich. Air-brake-pump lubricator. No. 1,338,385; Apr. 27; v. 273; p. 712.
McCoy, Elijah, Manufacturing Company. (See McCoy, Elijah, assignor.)
McCoy, Eugene, Staples, Minn. Package-carrier for automobiles. No. 1,342,557; June 8; v. 275; p. 238.
McCoy, Fred H., assignor to Mead Manufacturing Company, Burlington, Vt. Combined folder for sewing-machines. No. 1,357,105; Oct. 26; v. 279; p. 661.
McCoy, Henry E., and F. J. Tarr, Sapulpa, Okla. Sampling device. No. 1,336,250; Apr. 6; v. 273; p. 103.
McCoy, Joseph, Minneapolis, Minn. Apparatus for refrigeration. No. 1,339,659; May 11; v. 274; p. 264.
McCoy, Walter R. (See Palmer, Walter W., assignor.)
McCoy, William W., Cincinnati, Ohio. Arch-supporting shoe. No. 1,335,172; Mar. 30; v. 272; p. 785.
McCracken, Edgar, Albia, Iowa. Automobile-lock. No. 1,351,297; Aug. 31; v. 277; p. 850.
McCracken, George B., Willimantic, Conn. Valve. No. 1,333,623; Mar. 16; v. 272; p. 386.
McCracken, John A., Rahway, N. J. Sewing-machine support. No. 1,342,686; June 8; v. 275; p. 262.
McCracken, Lemuel C., Brush, Colo. Wagon-body lifter. No. 1,353,838; Sept. 28; v. 278; p. 555.
McCray, Aaron A. (See Welchel, Herbert E., assignor.)
McCray, John M., Pueblo, Colo. Shoe-holder. No. 1,339,520; May 11; v. 274; p. 238.
McCray, Guilford, Tomales, Calif. Egg-washer. No. 1,352,138; Sept. 7; v. 278; p. 82.

Digitized by Google

McCrea, Thomas H., assignor to Brazil Hollow Brick & Tile Company, Brazil, Ind. Construction of walls. No. 1,330,203; Feb. 10; v. 271; p. 192.
McCready, Charles T., Onley, Va. Vine turner and lifter. No. 1,349,896; Aug. 17; v. 277; p. 469.
McCready, George L., Parksley, Va. Vine-cutter. No. 1,336,976; Apr. 13; v. 273; p. 301.
McCreary, Alfred W., Mount Pleasant, Pa. Combination screen-bed. No. 1,347,393; July 20; v. 276; p. 528.
McCreary, James H. (See Babcock, H. C., and McCreary.)
McCredie, Reid J., Buffalo, N. Y. Lock collar-button. No. 1,327,719; Jan. 13; v. 270; p. 218.
McCredie, Reid J., Buffalo, N. Y. Motor-vehicle radiator. No. 1,333,668; Mar. 16; v. 272; p. 895.
McCredie, Reid J., Buffalo, N. Y. Metal and elastic garter. No. 1,357,293; Nov. 2; v. 280; p. 18.
McCrimmon, John A., Garfield, Utah. Sample-holder or samplegraph. No. 1,331,073; Feb. 17; v. 271; p. 425.
McCuaig, Duncan H., Wahkon, Minn. Antikicker for cows. No. 1,337,406; Apr. 20; v. 273; p. 457.
McCuen, Charles L., Detroit, Mich., assignor, by mesne assignments, to The Isko Company, Chicago, Ill. Refrigerating device. No. 1,358,010; Nov. 9; v. 280; p. 216.
McCullar, W. A., and J. J. Ayraud, Beaumont, Tex. Pipe-coupling. No. 1,350,078; Aug. 17; v. 277; p. 504.
McCulloch, Leon, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Co. Making sound brass castings. No. 1,351,051; Aug. 31; v. 277; p. 802.
McCullough, A. M., *et al.* (See Siprelle, Harry A., assignor.)
McCullough, Alfred, Callery, Pa. Anti-skid attachment for vehicle-wheels. No. 1,339,854; May 11; v. 274; p. 301.
McCullough, William T., Pittsburgh, Pa. Signaling torpedo. No. 1,337,240; Apr. 20; v. 273; p. 426.
McCurdy, Arthur W., Victoria, British Columbia, Canada. Roll-film. No. 1,329,785; Feb. 3; v. 271; p. 82.
McCurdy, Arthur W., Victoria, British Columbia, Canada. Film-cartridge. No. 1,347,109; July 20; v. 276; p. 472.
McCurdy, Arthur W., Victoria, British Columbia, Canada. Sheet-uniting device. No. 1,350,371; Aug. 24; v. 277; p. 607.
McCurdy, Arville E., Washington, D. C. Automobile-signal. No. 1,336,644; Apr. 13; v. 273; p. 237.
McCutchan, Harvey S., assignor to Kerosene Burning Carburetor Company, Detroit, Mich. Carbureter control. No. 1,342,966; June 8; v. 275; p. 318.
McCutchen, Brunson S., Plainfield, N. J. Washing-machine. No. 1,358,168; Nov. 9; v. 280; p. 247.
McCutchen, Charles G., assignor to The Highway Tractor Company, Indianapolis, Ind. Motor-truck. No. 1,342,752; June 8; v. 275; p. 276.
McCutcheon, Charles A., Falconer, N. Y., assignor to The Norwalk Auto Parts Company, Norwalk, Ohio. Bolt. No. 1,362,633; Dec. 21; v. 281; p. 426.
McDaniel, Alexander H. (See Rawlings, F. G., and McDaniel.)
McDaniel, Charles C., Westphalia, Kans. Adjustable washstand. No. 1,335,446; Mar. 30; v. 272; p. 836.
McDaniel, Guy S., Smyrna, assignor of one-half to E. H. Kimbell, Atlanta, Ga. Treating fibrous vegetable material and resulting product. No. 1,350,031; Aug. 17; v. 277; p. 495.
McDaniel, Walter O., assignor to The H-K Toy & Novelty Co., Indianapolis, Ind. Toy machine-gun. No. 1,328,929; Jan. 27; v. 270; p. 512.
McDermott, Carl, Freehold, N. J. Electrical coin-delivery machine. No. 1,356,379; Oct. 19; v. 279; p. 472.
McDermott, Frank A., Washington, D. C. Extracting oils from the peel of citrus fruits. No. 1,353,169; Sept. 21; v. 278; p. 379.
McDermott, Keen J., Cedar, Colo. Ditch-excavating machine. No. 1,338,784; May 4; v. 274; p. 25.
McDermott, Thomas C., Utica, N. Y. Brick and wall construction. No. 1,330,884; Feb. 17; v. 271; p. 388.
McDevitt, Leslie I., Houston, Tex. Combination swing and couch. No. 1,330,204; Feb. 10; v. 271; p. 192.
McDill, Ottis A. (See Benton, George T., assignor.)
McDill, Rex D., Tampa, Fla. Food product and making same. No. 1,361,079; Dec. 7; v. 280; p. 20.
McDonah, John H., Boston, Mass. Life-boat. No. 1,349,897; Aug. 17; v. 277; p. 469.
McDonald, A. Y., M'f'g. Co. (See McDonald, John M., assignor.)
McDonald, Alexander, Detroit, Mich. Rotary engine. No. 1,341,332; May 25; v. 274; p. 710.
McDonald, Alexander, Chicago, Ill. Grain-shocking machine. No. 1,344,348; June 22; v. 275; p. 718.
McDonald, Arthur E., San Francisco, Calif. Gear-shift lock. No. 1,347,110; July 20; v. 276; p. 472.
McDonald, Charles P., Kansas City, Mo. Wire connector. No. 1,357,332; Nov. 2; v. 280; p. 26.
McDonald, Frances C., Chicago, Ill. Fastening device. No. 1,357,574; Nov. 2; v. 280; p. 70.
McDonald, Francess E., Chisuncook, Me. Ticket-holder. No. 1,344,420; June 22; v. 275; p. 732.
McDonald, Frank M., Seattle, Wash. Aeronautic landing device. No. 1,342,221; June 1; v. 275; p. 120.
McDonald, Frank M., Seattle, Wash. Fender. No. 1,342,402; June 1; v. 275; p. 153.
McDonald, Frank R., assignor of one-half to G. E. Pitts, Hamilton, Ontario, Canada. Vehicle-wheel-spoke brush. No. 1,332,266; Mar. 2; v. 272; p. 17.
McDonald, George R., Berkeley, Calif. Oil-pump trunk. No. 1,348,504; Aug. 3; v. 277; p. 72.
McDonald, James A., Fort Worth, Tex. Combined mail-box and door-bell. No. 1,327,957; Jan. 13; v. 270; p. 262.
McDonald, James D., Hayden, Ariz. Sand and slime separator. No. 1,350,509; Aug. 24; v. 277; p. 635.
McDonald, John, Montreal, Quebec, Canada. Shoe-fastening device. No. 1,336,146; Apr. 6; v. 273; p. 84.
McDonald, John, West Haven, Conn. Wire-twisting tool. No. 1,347,282; July 20; v. 276; p. 507.
McDonald, John A., Aransas Pass, Tex. Rail-joint. No. 1,356,931; Oct. 26; v. 279; p. 627.
McDonald, John M., assignor to A. Y. McDonald M'f'g. Co., Dubuque, Iowa. Valve-lock. No. 1,349,139; Aug. 10; v. 277; p. 247.
McDonald, John U., Decatur, Ill. Furnace. No. 1,349,971; Aug. 17; v. 277; p. 483.
McDonald, Marie D., Portland, Oreg. Woman's hat. No. 1,345,547; July 6; v. 276; p. 44.
McDonald, Roland A., St. Joseph, Mo. Washing-machine. No. 1,363,892; Dec. 28; v. 281; p. 711.
McDonald, Stephen F., Cleveland, Ohio. Ventilator. No. 1,336,470; Apr. 13; v. 273; p. 204.
McDonald, William, Twin Falls, Idaho. Two-way mower. No. 1,354,052; Sept. 28; v. 278; p. 599.
McDonnell, George F., Charleston, and J. J. Dandoy, Dunbar, W. Va. Glass vessel. No. 1,348,231; Aug. 3; v. 277; p. 20.
McDonnell, William E., assignor to E. Kirstein Sons Company, Rochester, N. Y. Ophthalmic-lens frame. No. 1,362,715; Dec. 21; v. 281; p. 442.
McDonough, Joseph G., Eau Claire, Wis. Lumber-marking machine. No. 1,340,966; May 25; v. 274; p. 640.
McDonough, Joseph G., Eau Claire, Wis. Lumber branding and rebranding machine for planing-mills and roller-beds. No. 1,340,967; May 25; v. 274; p. 640.
McDonough, Joseph G., Eau Claire, Wis. Lumber and timber grading machine. No. 1,351,777; Sept. 7; v. 278; p. 12.
McDonough, Martin T., Wheeling, W. Va. Miner's cap. No. 1,347,046; July 20; v. 276; p. 461.
McDorman, Paul, Niagara Falls, N. Y., assignor to The Electro Chemical Company, Dayton, Ohio. Electrolytic cell. No. 1,342,336; June 1; v. 275; p. 141.
McDougall, Alexander, Duluth, Minn. Vessel. No. 1,345,610; July 6; v. 276; p. 55.
McDougall, Alexander, Duluth, Minn. Vessel. No. 1,345,611; July 6; v. 276; p. 55.
McDougall, Alexander, Duluth, Minn. Vessel construction. No. 1,356,993; Oct. 26; v. 279; p. 639.
McDougall, Andrew H., assignor to Whiting Foundry Equipment Company, Harvey, Ill. Car-hoist. No. 1,346,324; July 13; v. 276; p. 259.
McDougall, Donald G., Ipswich, Queensland, Australia. Spark-arrester. No. 1,333,823; Mar. 9; v. 272; p. 269.
McDougall, George F., Portland, Oreg. Valve. No. 1,327,564; Jan. 6; v. 270; p. 128.
McDowell, Albert, Los Angeles, Calif. Boat-listing apparatus. No. 1,354,204; Sept. 28; v. 278; p. 630.
McDowell, Albert, assignor to T. Bradley, Los Angeles, Calif. Wrench. No. 1,342,856; June 8; v. 275; p. 297.
McDowell, Edward, Atlanta, Ga. Resilient tire-cushion. No. 1,327,717; Jan. 13; v. 270; p. 218.
McDowell, Jay G. (See Wareham and McDowell.)
McDowell, Robert H., Marshalltown, Iowa. Apparatus for drying and hardening corn. No. 1,341,275; May 25; v. 274; p. 699.
McDowell, Silas A., Richland, Oreg. Beet-harvester. No. 1,333,324; Mar. 9; v. 272; p. 269.
McDowell, Vernon, Richmond, Va. Window-sash lock. No. 1,355,403; Oct. 12; v. 279; p. 241.
McDowell, Willie M., Tacoma, Wash. Shock-absorber. No. 1,354,980; Oct. 5; v. 279; p. 106.
McEachern, Dougald, Nelson, British Columbia, Canada. Rail-joint. No. 1,352,669; Sept. 14; v. 278; p. 221.
McEldowney, Harriet, Windsor, Ontario, Canada. Child's apparel-supporter. No. 1,351,579; Aug. 31; v. 277; p. 907.
McElfresh, Franklin P., Elk Horn, Iowa. Truss. No. 1,341,333; May 25; v. 274; p. 711.
McElroy, George, Plain City, Utah. Meat-cutter. No. 1,363,741; Dec. 28; v. 281; p. 681.
McElroy, James A. Kansas City, Mo. Shocker attachment for grain-binders. No. 1,345,381; July 6; v. 276; p. 11.
McElvain, James W., Springfield, Ill. Pneumatic tire. No. 1,358,962; Nov. 16; v. 280; p. 451.
McElwee, James E., and E. J. O'Neill, Syracuse, N. Y. Shoe-counter-softening machine. No. 1,331,656; Feb. 24; v. 271; p. 553.
McEntire, Ronald G. J., Dublin, Ireland. Device for making hypodermic injections. No. 1,338,386; Apr. 27; v. 273; p. 712.
McEown, Frank, New York, N. Y. Safety-razor-blade holder. No. 1,352,011; Sept. 7; v. 278; p. 59.
McEvilla, Walter H., Philadelphia, Pa. Shaving-brush. No. 1,339,065; May 4; v. 274; p. 78.

Digitized by Google

Alphabetical list of patentees—Continued.

McEvoy, John P., Sourlake, Tex. Valve structure for oil-wells. No. 1,353,409; Sept. 21; v. 278; p. 426.
McEvoy, Luke, Chicago, Ill. Waterproof coat. No. 1,359,999; Nov. 23; v. 280; p. 698.
McEwan, Frank J., Chicago, Ill. Combination-heel. No. 1,346,038; July 6; v. 276; p. 141.
McEwen, Norman S., Nashville, Tenn. Timing device for cameras. No. 1,339,117; May 4; v. 274; p. 88.
McEwen, Willard M. (See Olson, Gustaf, assignor.)
McEwen, Willard M., Chicago, Ill. Oscillating fan. No. 1,334,958; Mar. 30; v. 272; p. 744.
McEwen, Willard M., Chicago, Ill. Extension unit for automobile-chassis. No. 1,360,770; Nov. 30; v. 280; p. 918.
McFarland, Edward, and H. T. Lowary, Aspen, Colo. Concentrator. No. 1,357,884; Nov. 2; v. 280; p. 130.
McFarland, J. C., Company. (See Treiber, Theodore R., assignor.)
McFarland, John D., St. Louis, Mo. Rouge-holder. No. 1,362,808; Dec. 21; v. 281; p. 461.
McFarland, John J. (See Lytle, J. H., and McFarland.)
McFarland, William L., Fairfield, Ill. Rotary motorr. No. 1,350,231; Aug. 17; v. 277; p. 533.
McFarlane, Percy D., assignor of one-third to O. A. Readfield and one-third to D. J. McGrath, Minneapolis, Minn. Oscillating-pedestal support. No. 1,344,806; June 29; v. 275; p. 873.
McFarlane, Thomas D., Ottawa, Ontario, Canada. Rest. No. 1,363,335; Dec. 28; v. 281; p. 603.
McFate, Joseph N., Phoenix, Ariz. Tire. No. 1,356,537; Oct. 26; v. 279; p. 550.
McFate, Joseph N., Phoenix, Ariz., and H. L. Glaze, Los Angeles, Calif.; said Glaze assignor of four-tenths of his right to said McFate. Tire. No. 1,352,074; Sept. 7; v. 278; p. 70.
McFeely, Ronald F., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Pulling-over machine. No. 1,356,538; Oct. 26; v. 279; p. 550.
McFeely, Ronald F., deceased, Beverly; E. M. Sullivan, administrator, Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. No. 1,356,539; Oct. 26; v. 279; p. 550.
McFeely, Ronald F., deceased, Beverly; E. M. Sullivan, administrator, Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for lasting boots and shoes. No. 1,356,540; Oct. 26; v. 279; p. 551.
McFeely, Ronald F., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Pulling-over machine. No. 1,356,642; Oct. 26; v. 279; p. 570.
McGahey, Robert E., Alexandria, Va. Self-locking angle-cock. No. 1,351,391; Aug. 31; v. 277; p. 869.
McGair, John F., Providence, R. I. Tomb. No. 1,362,882; Dec. 21; v. 281; p. 475.
McGall, Albert, assignor to Tubal Corporation, New York, N. Y. Safety-razor-blade-sharpener. No. 1,353,485; Sept. 21; v. 278; p. 441.
McGall, Edward. (See Constable, J. P., Michalis, and McGall.)
McGann, Owen J., Carrollton, Ohio. Automatic lubricating system for internal-combustion-engine pistons. No. 1,347,959; July 27; v. 276; p. 697.
McGann, William D., Chicago, Ill. Correspondence-packet. No. 1,356,078; Oct. 19; v. 279; p. 413.
McGann, William H., Minneapolis, Minn. Car-door. No. 1,343,925; June 22; v. 275; p. 636.
McGargill, James M., Imogene, Iowa. Gas-mask. No. 1,362,766; Dec. 21; v. 281; p. 453.
McGarry, Henry S., and J. D. Carr, Humble, Tex. Casing-head. No. 1,352,075; Sept. 7; v. 278; p. 70.
McGary, Alexander, *et al.* (See Bear, Claude A., assignor.)
McGaughy, Marshall, Pine Bluff, Ark. Roll-screen support. No. 1,360,424; Nov. 30; v. 280; p. 849.
McGauley, Harry, Philadelphia, Pa. Automatic railway signaling mechanism. No. 1,360,304; Nov. 30; v. 280; p. 827.
McGee, Frank R., Steubenville, Ohio. Apparatus for cleaning gases. No. 1,333,325; Mar. 9; v. 272; p. 269.
McGee, Frank R., Steubenville, Ohio. Method of and apparatus for cleaning gases. No. 1,338,143; Apr. 27; v. 273; p. 666.
McGee, James R. (See Kiss, J., and McGee.)
McGee, James R. (See Kiss, Joseph, assignor.)
McGee, James R., Milwaukee, Wis. Automatic elevator-door. No. 1,343,328; June 15; v. 275; p. 452.
McGee, Marie L. (See Healy, D. J., and McGee.)
McGee, Richard T., Wheeling, W. Va. Die-holder. No. 1,339,363; May 4; v. 274; p. 132.
McGee, Richard T., Wheeling, W. Va. Mold-charging device. No. 1,356,932; Oct. 26; v. 279; p. 627.
McGee, Richard T., Wheeling, W. Va. Die-casting machine. No. 1,360,771; Nov. 30; v. 280; p. 918.
McGee, Robert C., Cincinnati, Ohio. Cake-cutting machine. No. 1,357,241; Nov. 2; v. 280; p. 8.
McGee, William H. (See Berry, R. S., and McGee.)
McGeorge, Jefferson F., Marshall, Tex. Window-screen. No. 1,328,577; Jan. 20; v. 270; p. 417.
McGeorge, John. (See Hennessy, D. E., and McGeorge.)
McGeorge, William C., assignor of one-half to R. T. Ash, San Francisco, Calif. Non-skid device. No. 1,342,753; June 8; v. 275; p. 276.
McGeouch, William P., Arlington, and G. C. Beckwith, Somerville, assignors to Boston Woven Hose & Rubber Co., Boston, Mass. Apparatus for forming cartons or boxes. No. 1,337,845; Apr. 20; v. 273; p. 540.
McGhee, James W., Los Angeles, Calif. Drapery-hook. No. 1,334,661; Mar. 23; v. 272; p. 627.
McGhee, Jesse M., Estancia, N. Mex. Convertible table-bed. No. 1,348,572; Aug. 3; v. 277; p. 86.
McGhee, Jesse M., Estancia, N. Mex. Convertible ward-robe-bed. No. 1,353,536; Sept. 21; v. 278; p. 451.
McGlehan, Patrick H., New York, N. Y. Machine for printing carpets, floor-rugs, &c. No. 1,338,785; May 4; v. 274; p. 25.
McGill, George A., Memphis, Tenn. Combined driving and steering axle. No. 1,334,158; Mar. 16; v. 272; p. 487.
McGill, James K., Belledeau, La. Railway-tie. No. 1,350,416; Aug. 24; v. 277; p. 616.
McGill Manufacturing Company. (See Hasselstrom, Ivar S., assignor.)
McGill, Thomas, San Francisco, Calif. Snow-melting apparatus. No. 1,360,238; Nov. 23; v. 280; p. 745.
McGillivray, James, South Chicago, Ill. Valve device. No. 1,342,900; June 8; v. 275; p. 306.
McGinley, Thomas A., Sewickley, and J. C. Kopf, Bellevue borough, Pa. Steering-gear. No. 1,341,334; May 25; v. 274; p. 711.
McGinn, John A., Melrose, Iowa. Supporting means for motor-vehicles. No. 1,363,336; Dec. 28; v. 281; p. 603.
McGinnis, Walter R., assignor to Pilsbry-Becker Engineering & Supply Company, St. Louis, Mo. Apparatus for recovery of gasolene from casing-head gas in oil-wells. No. 1,328,680; Jan. 20; v. 270; p. 436.
McGinnis, William A., Detroit, Mich. Garment-hanger. No. 1,345,017; June 29; v. 275; p. 912.
McGinnis, William H., and C. H. Baxter, Powhattan, Kans. Chute for loading and unloading live stock, especially hogs and sheep. No. 1,332,132; Feb. 24; v. 271; p. 642.
McGinniss, William J., Washington, D. C. Expander for piston-rings. No. 1,348,953; Aug. 10; v. 277; p. 211.
McGinnitey, John F. (See Cox, R. C., and McGinnitey.)
McGinty, Anthony C., Los Angeles, Calif. Baby-carrier. No. 1,330,485; Feb. 10; v. 271; p. 244.
McGirr, Alexander F., Metcalfe, Ontario, Canada. Barn. No. 1,336,471; Apr. 13; v. 273; p. 204.
McGlaughlin, Monroe, Columbus, Ohio. Wall-paper pasting and trimming machine. No. 1,334,387; Mar. 23; v. 272; p. 576.
McGlaughlin, William F., assignor of one-half to R. D. Galbreth, Denver, Colo. Food delivering and ordering apparatus. No. 1,360,657; Nov. 30; v. 280; p. 896.
McGoldrick, Timothy. (See Tiffany, Louis L., assignor.)
McGoldrick, Timothy, Lincoln, N. H. Coal-screen and ash-sifter. No. 1,346,905; July 20; v. 276; p. 432.
McGowan, Edward J. (See Ewing, J. A., and McGowan.)
McGowan, James W., Omaha, Nebr. Vehicle-alarm. No. 1,328,173; Jan. 13; v. 270; p. 303.
McGowan, William H., Vincennes, Ind. Tire. No. 1,341,656; June 1; v. 275; p. 8.
McGranahan, Charles. (See Paar, Henry, assignor.)
McGrath, Daniel J., *et al.* (See McFarlane, Percy D., assignor.)
McGrath, Lawrence A., Winthrop, assignor of four-sixteenths to M. F. Cunningham, Randolph, and two-sixteenths to W. H. Dennehy, Brockton, Mass. Tag-stringing machine. No. 1,351,000; Aug. 24; v. 277; p. 729.
McGrath, Patrick H., Wollaston, Mass. Flycatcher. No. 1,329,534; Feb. 3; v. 271; p. 36.
McGrath, Patrick J., Brooklyn, N. Y. Shoe-form. No. 1,358,963; Nov. 16; v. 280; p. 451.
McGrath, Patrick J., Brooklyn, N. Y. Closure for paper boxes. No. 1,362,332; Dec. 14; v. 281; p. 316.
McGrath, William L., assignor to Eclipse Machine Company, Elmira, N. Y. Engine-starter. No. 1,329,535; Feb. 3; v. 271; p. 36.
McGrath, William L., assignor to Eclipse Machine Company, Elmira, N. Y. Engine-starter. No. 1,330,326; Feb. 10; v. 271; p. 214.
McGrath, William L., assignor to Eclipse Machine Company, Elmira, N. Y. Engine-starter. No. 1,330,985; Feb. 17; v. 271; p. 408.
McGrath, William L., assignor to Eclipse Machine Company, Elmira, N. Y. Engine-starter. No. 1,348,288; Aug. 3; v. 277; p. 31.
McGrath, William L., assignor to Eclipse Machine Company, Elmira, N. Y. Engine-starter. No. 1,348,289; Aug. 3; v. 277; p. 32.
McGrath, William L., assignor to Eclipse Machine Company, Elmira, N. Y. Engine-starter. No. 1,351,860; Sept. 7; v. 278; p. 29.
McGrath, William L., assignor to Eclipse Machine Company, Elmira, N. Y. Engine-starter. No. 1,363,003; Dec. 21; v. 281; p. 498.
McGraw, Edwin C., assignor to The McGraw Tire and Rubber Company, East Palestine, Ohio. Tire-making machine. No. 1,333,927; Mar. 16; v. 272; p. 443.

Digitized by Google

McGraw Tire and Rubber Company, The. (See McGraw, Edwin C., assignor.)
McGregor, Alexander, Boston, Mass. Valve. No. 1,356,298; Oct. 19; v. 279; p. 457.
McGregor, Alexander G., Warren, Ariz. Automobile-hood. No. 1,356,541; Oct. 26; v. 279; p. 551.
McGregor, Allan L., Chicago, Ill. Automobile-bumper. No. 1,358,964; Nov. 16; v. 280; p. 451.
McGregor, Allan L., Chicago, Ill. Automobile-bumper. No. 1,358,965; Nov. 16; v. 280; p. 451.
McGregor, Allan L., Chicago, Ill. Automobile-bumper. No. 1,359,184; Nov. 16; v. 280; p. 491.
McGregor, Allan L., Chicago, Ill. Bumper-attaching bracket. No. 1,359,185; Nov. 16; v. 280; p. 491.
McGregor, Allan L., Chicago, Ill. Automobile-bumper. No. 1,359,186; Nov. 16; v. 280; p. 492.
McGregor, Allan L., Chicago, Ill. Automobile-bumper. No. 1,361,599; Dec. 7; v. 281; p. 125.
McGregor, Allan L., Chicago, Ill. Automobile-bumper. No. 1,361,600; Dec. 7; v. 281; p. 125.
McGregor, Charles T., Denison, Tex. Train signaling and stopping device. No. 1,356,299; Oct. 19; v. 279; p. 458.
McGregor, Joel F., Chattanooga, Tenn. Separable fastening means. No. 1,360,425; Nov. 30; v. 280; p. 850.
McGregor, Mary M., Pasadena, Calif. Oil-well fishing-tool. No. 1,357,508; Nov. 2; v. 280; p. 58.
McGregory, Fred H., Decatur, Ill. Dustless duster. No. 1,344,545; June 22; v. 275; p. 757.
McGrory, Edward L. (See Wilcox, F. A., and McGrory.)
McGrory, James B., Norwich, Conn. Adjustable flexible belt-fastener. No. 1,355,766; Oct. 12; v. 279; p. 311.
McGrother, Joseph F., and J. L. Deen, Philadelphia, Pa. Device for preventing leakage around the valve-stems of internal-combustion engines. No. 1,338,186; Apr. 27; v. 273; p. 674.
McGuckin, John J., Brooklyn, assignor to Stevens & Company, New York, N. Y. Bicycle-crank. No. 1,337,765; Apr. 20; v. 273; p. 525.
McGuckin, John J., Brooklyn, assignor to Louis Schwab, New York, N. Y. Bicycle-crank. No. 1,358,225; Nov. 9; v. 280; p. 258.
McGuiness, Benjamin F., Saundersville, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft-detecting mechanism. No. 1,360,553; Nov. 30; v. 280; p. 875.
McGuire, Edward A. (See Bashwiner, C. and P., and Brandt, assignors.)
McGuire, John J., Yonkers, N. Y. Convertible automobile-body. No. 1,344,546; June 22; v. 275; p. 757.
McGuire, Joseph, Philadelphia, Pa. Combined shaving-brush and soap-holder. No. 1,358,565; Nov. 9; v. 280; p. 327.
McGuire, Lawrence. (See Howell, Charles S., assignor.)
McGuire, Leslie C., Brooklyn, N. Y. Motor. No. 1,355,235; Oct. 12; v. 279; p. 209.
McGuire, Patrick, Superior, Wis. Steering-wheel lock for automobiles. No. 1,329,913; Feb. 3; v. 271; p. 106.
McGuire, Phillip, Staples, Minn. Tie-spacer. No. 1,346,225; July 13; v. 276; p. 238.
McGuire, Thomas S., Carlisle, Pa. Grinding-machine. No. 1,359,718; Nov. 23; v. 280; p. 642.
McGuire, Weaver A. (See Bailey, E. R., and McGuire.)
McGuire, William, *et al.* (See Heitz, Edward L., assignor.)
McGurk, Eugene F., Wauwatosa, Wis. Money-wrapper. No. 1,333,087; Mar. 9; v. 272; p. 226.
McIlaffie, Thomas, Fusilier, Saskatchewan, Canada. Bag-fastener. No. 1,357,789; Nov. 2; v. 280; p. 112.
McHale, Michael J., Scranton, Pa. Adjustable roof-flange. No. 1,332,224; Mar. 2; v. 272; p. 9.
McHenry, Samuel B., Bloomsburg, Pa. Automobile-engine-starting means. No. 1,329,091; Jan. 27; v. 270; p. 542.
McHugh, Edward, Washington, D. C. Eyeglass-case. No. 1,333,864; Mar. 16; v. 272; p. 431.
McIlhiney, Parker C., Great Neck, N. Y., assignor to California Alkali Company, San Francisco, Calif. Recovery of potassium salts. No. 1,338,234; Apr. 27; v. 273; p. 684.
McIlhiney, Parker C., Great Neck, N. Y., assignor to California Alkali Company, San Francisco, Calif. Recovery of potassium salts. No. 1,338,235; Apr. 27; v. 278; p. 684.
McIlroy, Peter, Allison Park, assignor to Enameled Metals Company, Sharpsburg, Pa. Protector for conduits or pipes. No. 1,329,984; Feb. 3; v. 271; p. 119.
McIlvain, William C., Russellton, Pa. Section-insulator. No. 1,363,337; Dec. 28; v. 281; p. 604.
McIntire, Hervey H., South Bend, Ind. Platen. No. 1,349,384; Aug. 10; v. 277; p. 296.
McIntosh Battery and Optical Co. (See MacLagan, Hector P., assignor.)
McIntosh, Clayton, A., Palmer, Kans. Mail-box bracket. No. 1,358,322; Nov. 9; v. 280; p. 277.
McIntosh, Frank E., assignor to Cone Carrier Corporation, Burlington, Vt. Ice-cream-cone carrier. No. 1,338,744; May 4; v. 274; p. 18.
McIntosh, George. (See White, T. E., and McIntosh.)
McIntosh, James A., assignor, by mesne assignments, to Standard Tool & Manufacturing Company, Detroit, Mich. Channel-tubing. No. 1,349,684; Aug. 17; v. 277; p. 429.
McIntosh, Louis H., assignor of one-half to F. H. Austin, Cleveland, Ohio. Machine for bending rods and tubes. No. 1,330,026; Feb. 3; v. 271; p. 127.
McIntyre, Allen H., assignor to Skinner Machinery Co., Tampa, Fla. Fruit-drier. No. 1,327,486; Jan. 6; v. 270; p. 112.
McIntyre, Charles S., Monroe, Mich. Pump. No. 1,335,251; Mar. 30; v. 272; p. 799.
McIntyre, James C., *et al.* (See Ballantine, William, assignor.)
McIntyre, John A., assignor to The McIntyre Pump Company, Denver, Colo. Internal-combustion pressure-pump. No. 1,333,265; Mar. 9; v. 272; p. 258.
McIntyre, John J., Hartford, Conn. Ball-grinding machine. No. 1,334,773; Mar. 23; v. 272; p. 649.
McIntyre, John J., and C. Koehler, Hartford, Conn. Ball-lapping machine. No. 1,330,083; Feb. 10; v. 271; p. 170.
McIntyre, Joseph J., Brooklyn, N. Y. Aerial bomb. No. 1,327,487; Jan. 6; v. 270; p. 113.
McIntyre, Malcolm, Cranford, N. J., and T. A. McIntyre, New York, N. Y. Sailing-craft. No. 1,356,300; Oct. 19; v. 279; p. 458.
McIntyre, Michael M., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Vehicle-spring. No. 1,327,958; Jan. 13; v. 270; p. 262.
McIntyre, Michael M., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Vehicle-spring. No. 1,348,726; Aug. 3; v. 277; p. 115.
McIntyre, Michael M., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Vehicle spring suspension. No. 1,363,800; Dec. 28; v. 281; p. 693.
McIntyre, Patrick J., Auburn, R. I., assignor to United Wire and Supply Company. Priming device. No. 1,340,281; May 18; v. 274; p. 438.
McIntyre, Patrick J., assignor to United Wire and Supply Company, Cranston, R. I. Priming device. No. 1,355,837; Oct. 19; v. 279; p. 365.
McIntyre, Peter, Memphis, Tenn. Apparatus for preparing feed for stock. No. 1,332,629; Mar. 2; v. 272; p. 87.
McIntyre Pump Company, The. (See McIntyre, John A., assignor.)
McIntyre, Thomas A. (See McIntyre, Malcolm and T. A.)
McIver, Francis F., Jr., Chappaqua, N. Y. Heated-air-supply apparatus for cloth-driers. No. 1,338,513; Apr. 27; v. 273; p. 736.
McJilton, Lee D. (See Vervoort, Jules F., assignor.)
McJilton, Lee D., Los Angeles, Calif. Automobile-lock. No. 1,356,079; Oct. 19; v. 279; p. 413.
McKaig, Eddy T., Waukegan, Ill. Gearing for tractors. No. 1,334,917; Mar. 23; v. 272; p. 677.
McKallip, John C., Houston, Tex. Gasoline-measuring device. No. 1,352,820; Sept. 14; v. 278; p. 251.
McKay, Arthur N., and W. L. Willis, Houston, Tex. Liquid coating composition. No. 1,356,380; Oct. 19; v. 279; p. 472.
McKay Concrete Form Company. (See McKay, Stewart R., assignor.) (Reissue.)
McKay, George F. (See Hayes, Albert, assignor.)
McKay, Hugh V., Sunshine, Victoria, Australia. Threshing-machine. No. 1,352,821; Sept. 14; v. 278; p. 252.
McKay, John, assignor to Hard Manufacturing Company, Buffalo, N. Y. Head-rest for beds and the like. No. 1,327,108; Jan. 6; v. 270; p. 43.
McKay, Paul W., trustee. (See Himrod, Kirk, assignor.)
McKay, Robert J., Pittsburgh, Pa. Staybolt. No. 1,328,532; Jan. 20; v. 270; p. 409.
McKay, Stewart R., Cleveland Heights, Ohio, assignor to McKay Concrete Form Company, Sewaren, N. J. Concrete-form. (Reissue.) No. 14,807; Feb. 24; v. 271; p. 653.
McKay, Thomas J., Atlanta, Ga. Oil-cook-stove lid and fender. No. 1,330,643; Feb. 10; v. 271; p. 274.
McKay, Thomas J., Atlanta, Ga. Flytrap. No. 1,360,127; Nov. 23; v. 280; p. 724.
McKay, William F., La Grange, Ill. Making prepared roofing. No. 1,351,181; Aug. 31; v. 277; p. 826.
McKeag, John, Hamlin, Alberta, Canada. Weeding-harrow. No. 1,348,887; Aug. 10; v. 277; p. 198.
McKean, John G., Whitley Bay, England. Steam-engine of the double-cylinder type. No. 1,335,589; Mar. 30; v. 272; p. 862.
McKechnie, James, Barrow-in-Furness, assignor to Vickers Limited, Westminster, England. Fuel-injection device for internal-combustion engines. No. 1,338,316; Apr. 27; v. 273; p. 699.
McKechnie, James, Barrow-in-Furness, assignor to Vickers Limited, Westminster, London, England. Car for airships. No. 1,339,570; May 11; v. 274; p. 247.
McKechnie, James, Barrow-in-Furness, England, assignor to Vickers Limited, London, England. Valve-gear of internal-combustion engines. No. 1,352,758; Sept. 14; v. 278; p. 239.
McKechnie, James, Barrow-in-Furness, assignor to Vickers Limited, Westminster, England. Molding or like apparatus. No. 1,354,913; Oct. 5; v. 279; p. 93.
McKechnie, James, and J. P. Clear, Barrow-in-Furness, assignors to Vickers Limited, London, England. Piston. No. 1,331,573; Feb. 24; v. 271; p. 537.
McKee, Clarence E. (See Bolen, C. C., and McKee.)

Digitized by Google

Alphabetical list of patentees—Continued.

McKee, Enoch D., Eldorado, Kans. Stabilizers for motorcycles. No. 1,362,024; Dec. 14; v. 281; p. 256.
McKee, Ephraim A. (See Amos, Ora and R., and McKee.)
McKee, Garnet W., Rockford, Ill. Metal-melting furnace. No. 1,328,236; Jan. 13; v. 270; p. 316.
McKee, Garnet W., Rockford, Ill. Gas-furnace. No. 1,334,309; Mar. 23; v. 272; p. 561.
McKee, Garnet W., Rockford, Ill. Mixing-valve. No. 1,357,294; Nov. 2; v. 280; p. 18.
McKee Glass Company. (See Smith, Maurice A., assignor.)
McKee Glass Company. (See Wood, Arch K., assignor.)
McKee, Louis H., Trenton, N. J. School-desk. No. 1,355,404; Oct. 12; v. 279; p. 241.
McKee, Ralph H., New York, N. Y. Making hydrogen and zinc oxid. No. 1,355,904; Oct. 19; v. 279; p. 379.
McKee, Ralph H., New York, N. Y., and A. A. Holmes, Boston, Mass. Making paper-pulp. No. 1,360,658; Nov. 30; v. 280; p. 896.
McKee, Raymond E., Chicago, Ill. Safety-valve mechanism and pressure-signal. No. 1,359,262; Nov. 16; v. 280; p. 506.
McKeehan, John W., Berkeley, Calif. Spring-clothespin. No. 1,330,205; Feb. 10; v. 271; p. 193.
McKeen, Richard T., Chicago, Ill. Coal-loading device. No. 1,362,716; Dec. 21; v. 281; p. 443.
McKellar, Alexander, Greenock, Scotland. Means for facilitating the withdrawal of cigarettes or the like from their cases. No. 1,347,816; July 27; v. 276; p. 669.
McKellar, Alexander, Greenock, Scotland. Means by which a wristlet watch can be used as a pocket one. No. 1,359,083; Nov. 16; v. 280; p. 473.
McKelvey, Louis F., and J. A. Brandenburger, Indianapolis, Ind. Photofilm-clip. No. 1,329,422; Feb. 3; v. 271; p. 15.
McKendree, Creed H., Lakeview, Oreg. Rim. No. 1,362,430; Dec. 14; v. 281; p. 335.
McKenna, James H., Joplin, Mo. Dirt-loading machine. No. 1,329,914; Feb. 3; v. 271; p. 106.
McKenna, William F., assignor to C. T. Davis, New York, N. Y. Container-cover-mounted cutter. No. 1,361,080; Dec. 7; v. 281; p. 20.
McKenney, Galen, Bangor, Me. Adjustable handsaw. No. 1,349,427; Aug. 10; v. 277; p. 305.
McKenney, Gervis E., Chicago, Ill. Dispensing-cabinet. No. 1,355,488; Oct. 12; v. 279; p. 258.
McKenzie, Gregg. (See Carroll, Andrew L., assignor.)
McKenzie, Isaac. (See Edelblute, William S., assignor.)
McKenzie, John B., Delafield, Wis. Guard or protector for target-shooting. No. 1,357,242; Nov. 2; v. 280; p. 8.
McKenzie, Lionel B., Leonia, N. J. Umbrella attachment. No. 1,329,915; Feb. 3; v. 271; p. 107.
McKenzie, Luke C., Clinton, N. C. Cattle-grazing post. No. 1,350,732; Aug. 24; v. 277; p. 678.
McKenzie, Robert W. (See Soubliere, W. C., and McKenzie.)
McKenzie, Walter. Detroit, Mich. Tool-handle. No. 1,341,378; May 25; v. 274; p. 720.
McKenzie, Walter, Tulsa, Okla. Tool-handle. No. 1,352,012; Sept. 7; v. 278. p. 59.
McKeown, Samuel C., assignor to Splitdorf Electrical Company, Newark, N. J. Starter-coupling. No. 1,360,963; Nov. 30; v. 280; p. 955.
McKerahan, George, Avonmore, Pa. Oxygen concentrator. No. 1,339,211; May 4; v. 274; p. 104.
McKibben, Charles W., Houston, Tex. Apparatus for treatment of oil emulsions. No. 1,327,835; Jan. 13; v. 270; p. 240.
McKibbin, Alexander, Chicago, Ill. Valve. No. 1,345,382; July 6; v. 276; p. 11.
McKibbin, Alexander, Chicago, Ill. Automatic controller. No. 1,345,383; July 6; v. 276; p. 11.
McKiernan, Elbert, Fort Madison, Iowa. Draft-regulator. No. 1,352,670; Sept. 14; v. 278; p. 221.
McKiliget, Richard C., New Orleans, La. Trolley-wheel adjuster. No. 1,358,645; Nov. 9; v. 280; p. 342.
McKimmy, Fred, Beaver Dam, Ohio. Fishing-reel. No. 1,353,170; Sept. 21; v. 278; p. 380.
McKinley, Charles W., assignor to The Willys-Overland Company, Toledo, Ohio. Hood-hinge support. No. 1,346,325; July 13; v. 276; p. 259.
McKinley, Charles W., assignor to The Willys-Overland Company, Toledo, Ohio. Motor-vehicle construction. No. 1,346,326; July 13; v. 276; p. 259.
McKinley, Charles W., assignor to The Willys-Overland Company, Toledo, Ohio. Oil-can holder. No. 1,349,842; Aug. 17; v. 277; p. 458.
McKinley, James R., Seattle, Wash. Bolt. No. 1,348,727; Aug. 3; v. 277; p. 115.
McKinney, George W., Chester, Pa. Yarn-feeding device. No. 1,360,554; Nov. 30; v. 280; p. 875.
McKinney-Harrington Co. (See Harrington, Henry, assignor.)
McKinney Manufacturing Company. (See Cade, Charles W., assignor.)
McKinzie, Yoder, Louisville, Ky. Railway-crossing signal. No. 1,354,981; Oct. 5; v. 279; p. 106.
McKnight, Boyd L., assignor of one-half to J. E. Uebele, Washington, D. C. Necktie-pressing device. No. 1,352,294; Sept. 7; v. 278; p. 111.
McKnight, Charles, Jr., Sewickley, Pa. Casting metal. No. 1,331,816; Feb. 24; v. 271; p. 584.
McKnight, Oscar W., assignor to The Brunt Tile and Porcelain Company, Columbus, Ohio. Bushing-forming machine. No. 1,342,053; June 1; v. 275; p. 86.
McKnight, Thomas R., assignor to Western Wheeled Scraper Company, Aurora, Ill. Dump-car. No. 1,327,623; Jan. 13; v. 270; p. 200.
McKnight, Thomas R., assignor to Western Wheeled Scraper Company, Aurora, Ill. Grading-machine. No. 1,329,669; Feb. 3; v. 271; p. 60.
McKune, Frank B., Hamilton, Ontario, Canada. Open-hearth furnace. No. 1,339,855; May 11; v. 274; p. 302.
McLain, David. (See Carter, F., and McLain.)
McLain, Robert H., Schenectady, N. Y., assignor to General Electric Company. Motor-control system. No. 1,334,774; Mar. 23; v. 272; p. 649.
McLain, Robert H., Schenectady, N. Y., assignor to General Electric Company. Control of induction-motor. No. 1,347,751; July 27; v. 276; p. 657.
McLane, Joseph A., Morgantown, W. Va. Food-container. No. 1,332,508; Mar. 2; v. 272; p. 64.
McLane, Joseph A., assignor to The Armorcord Rubber Company, Morgantown, W. Va. Attachment for tire and tube molds. No. 1,362,717; Dec. 21; v. 281; p. 443.
McLaren-Sleight Corporation. (See McLaren, William E., assignor.)
McLaren, William E., Chicago, Ill., assignor, by mesne assignments, to McLaren-Sleight Corporation, St. Joseph, Mich. Convertible toy battleship and tank-car. No. 1,350,417; Aug. 24; v. 277; p. 616.
McLaughlin, Daniel M., Louisville, Ky. Valve. No. 1,359,187; Nov. 16; v. 280; p. 492.
McLaughlin, E. J., *et al.* (See Rial, L., and Hebern, assignors.)
McLaughlin, Frank, Philadelphia, Pa. Lather-brush for powdered soap. No. 1,354,053; Sept. 28; v. 278; p. 599.
McLaughlin, Frederick, Canton, Ill. Antiskidding armor for truck-tires. No. 1,336,363; Apr. 6; v. 273; p. 124.
McLaughlin, J. E. (See Lambert, Zéphirin, assignor.)
McLaughlin, James. (See Johanson, Emil G., assignor.)
McLaughlin, James T., Dallas, Tex. Aeroplane-kite. No. 1,356,381; Oct. 19; v. 279; p. 473.
McLaughlin, Joseph H., Chicago, Ill. Attachment for slicing-machines. No. 1,339,901; May 11; v. 274; p. 310.
McLaughlin, William H., assignor to Cassius S. Chase, Hartford, Conn. Adjustable rigid clamp. No. 1,355,610; Oct. 12; v. 279; p. 281.
McLaughlin, Wilson L., Decatur, Ill. Apparatus for treating fuel. No. 1,336,364; Apr. 6; v. 273; p. 125.
McLaughlin, Wilson L., Decatur, Ill. Drying-tower. No. 1,359,188; Nov. 16; v. 280; p. 492.
McLauthlin, Martin B., Malden, Mass., and A. K. Tylee, Montreal, Quebec, Canada. Selector for automatic hoisting apparatus. No. 1,341,143; May 25; v. 274; p. 674.
McLean, Charles D., assignor of one-third to T. Morin and one-third to P. E. Lemieux, Berlin, N. H. Instantaneous heater. No. 1,355,838; Oct. 19; v. 279; p. 365.
McLean, Charles H., Boston, Mass. Interchangeable cushion-heel. No. 1,354,499; Oct. 5; v. 279; p. 10.
McLean, Edgar M., and C. B. Yoder, assignors to Evens & Howard Fire Brick Company, St. Louis, Mo. Locomotive-fire-box arch. No. 1,357,575; Nov. 2; v. 280; p. 70.
McLean, Embury, Brooklyn, N. Y. Furnace control. No. 1,355,157; Oct. 12; v. 279; p. 193.
McLean, Gregory, Atlanta, Mich. Curtain-holder. No. 1,333,326; Mar. 9; v. 272; p. 270.
McLean, Harry L. (See Elmore, Guy H.)
McLean, John P., Hamilton, New South Wales, Australia. Means for absorbing the shock on saddles of motor and other vehicles. No. 1,333,125; Mar. 9; v. 272; p. 282.
McLean, Philip S., Bloomfield, N. J., and W. Meyner, New York, N. Y. Writing implement. No. 1,330,027; Feb. 3; v. 271; p. 127.
McLean, Philip S., Bloomfield, N. J. Music-roll. No. 1,340,175; May 18; v. 274; p. 420.
McLean, Robert D. D. (See Holroyd, Thomas H., assignor.)
McLean, Robert G., Chicago, Ill., assignor to Winchester Repeating Arms Co., New Haven, Conn. Screw-on skate. No. 1,355,680; Oct. 12; v. 279; p. 294.
McLean, Robert W., Bridgewater, assignor to Carver Cotton Gin Company, East Bridgewater, Mass. Saw-cylinder. No. 1,345,207; June 29; v. 275; p. 949.
McLean, True. (See Parmele, E. A., and McLean.)
McLellan, Charles T., Sioux City, Iowa. Egg-candler. No. 1,352,822; Sept. 14; v. 278; p. 252.
McLellan, Malcolm, Perry Sound, Ontario, Canada. Grain-car door. No. 1,356,106; Oct. 26; v. 279; p. 662.
McLeod, Anna J., *et al.* (See McLeod and Quirk, assignors.)
McLeod, Alexander D., Arcola, Saskatchewan, Canada. Auxiliary fireplace-heater. No. 1,361,389; Dec. 7; v. 281; p. 81.
McLeod, Donald, Tacoma, Washington. Scaffold for ship construction. No. 1,334,662; Mar. 23; v. 272; p. 627.

Digitized by Google

McLeod, Edward A., and M. F. Quirk, assignors of one-sixth to I. Evans and one-sixth to A. J. McLeod, Springfield, Ohio. Weight-motor. No. 1,328,384; Jan. 20; v. 270; p. 380.
McLeod, James D., Flint, Mich. Light attachment for guns. No. 1,330,885; Feb. 17; v. 271; p. 388.
McLeod, John E., Washington, Kans. Fumigator and poison-distributer. No. 1,355,489; Oct. 12; v. 279; p. 258.
McLeod, John H., Topeka, Kans. Road-machine. No. 1,337,241; Apr. 20; v. 273; p. 426.
McLeod, Nelson W., St. Louis, Mo. Making pneumatic tires. No. 1,328,006; Jan. 13; v. 270; p. 271.
McLeod, Thomas, Newcastle-upon-Tyne, England. Marine steering-gear. No. 1,358,454; Nov. 9; v. 280; p. 305.
McLoughlin Brothers. (See Stoll, Hugh S., assignor.)
McLoughlin, John J. (See McLoughlin, Martina G., assignor.)
McLoughlin, Martina G., assignor to J. J. McLoughlin, Philadelphia, Pa. Pantalet petticoat. No. 1,356,105; Oct. 19; v. 279; p. 419.
McLoughlin, William C., Fitzroy, Victoria, Australia. Spinning-machine. No. 1,338,577; Apr. 27; v. 273; p. 747.
McMahon, Francis D. (See Lake, J. L., and McMahon.)
McMahon, James P., Atlanta, Ga. Fuel-economizer. No. 1,342,337; June 1; v. 275; p. 141.
McMahon, Frank, and R. A. Houston, South Charleston, Ohio. Screen for windshields. No. 1,346,664; July 13; v. 276; p. 325.
McManama, John W., Waltham, assignor of one-third to S. W. Simonds and one-third to F. A. Barbey, Cambridge, Mass. Street-railway rail. No. 1,343,001; June 8; v. 275; p. 326.
McManigal, Frank S., Thermopolis, Wyo. Windmill. No. 1,333,987; Mar. 16; v. 272; p. 455.
McManis, John V. (See Barber, George A., assignor.)
McManis, John V. (See Koenigkramer, Frank, assignor.)
McManis, John V., Dayton, Ohio. Treatment-stool. No. 1,326,943; Jan. 6; v. 270; p. 12.
McManis, John V., Dayton, Ohio. Osteopathic table. No. 1,337,145; Apr. 13; v. 273; p. 333.
McManis, John V., Kirksville, Mo. Treatment-table. No. 1,351,482; Aug. 31; v. 277; p. 887.
McManus, Charles E., New York, N. Y. Bottle-closure. No. 1,339,066; May 4; v. 274; p. 78.
McManus, Charles E., New York, N. Y. Resilient rod. No. 1,346,834; July 20; v. 276; p. 418.
McManus, Edward L., Southbridge, Mass. Fly-guard. No. 1,340,069; May 11; v. 274; p. 341.
McManus, James P. (See Breckenridge, George M., assignor.)
McManus, John, Jet, Okla. Train-stop mechanism. No. 1,356,382; Oct. 19; v. 279; p. 473.
McManus, John A., Lynn, Mass. Preparation of molds for dental and jewelry casting and the like. No. 1,362,809; Dec. 21; v. 281; p. 461.
McManus, Thomas J., Milwaukee, Wis. Tire-armor. No. 1,330,129; Feb. 10; v. 271; p. 178.
McMaster, George E., Bellingham, Wash. Moving-sign device. No. 1,359,084; Nov. 16; v. 280; p. 473.
McMaster, Henry, Highland Park, assignor of one-half to J. W. Davis, Detroit, Mich. No. 1,342,967; June 8; v. 275; p. 219.
McMath, John F., Oakland, Calif. Casting device. No. 1,352,523; Sept. 14; v. 278; p. 191.
McMichael, James G., Chicago, Ill. Rail-smoothing machine. No. 1,358,766; Nov. 16; v. 280; p. 412.
McMicken, Thomas W., Humble, Tex. Saw filer and gummer. No. 1,329,423; Feb. 3; v. 271; p. 15.
McMillan, Alexander, Otisville, N. Y. Shooting-trap. No. 1,332,735; Mar. 2; v. 272; p. 107.
McMillan, Angus, San Francisco, Calif. Band-saw-filing machine. No. 1,349,685; Aug. 17; v. 277; p. 429.
McMillan, Angus, San Francisco, Calif. Tool-holder. 1,362,810; Dec. 21; v. 281; p. 462.
McMillan, Ephraim M., Taft, Calif. Float-valve for steam-boilers. No. 1,354,619; Oct. 5; v. 279; p. 35.
McMillan, Howard O., Minneapolis, Minn. Post-splicing clamp. No. 1,344,139; June 22; v. 275; p. 677.
McMillan, John F., Humble, and C. E. Reed, Houston, Tex. Fishing-tool. No. 1,362,883; Dec. 21; v. 281; p. 475.
McMillan, John L., Syracuse, N. Y. Loose-leaf device. No. 1,342,637; June 8; v. 275; p. 252.
McMillan, Malcolm D., Marcy, Minn. Mail-box. No. 1,360,964; Nov. 30; v. 280; p. 955.
McMillan, Orville G., Alpena, S. D. Engine. No. 1,349,520; Aug. 10; v. 277; p. 323.
McMillan, Uel S., San Francisco, Calif. Defiberizing redwood bark. No. 1,344,180; June 22; v. 275; p. 685.
McMillen, Walter B., San Francisco, Calif. Watch-holder. No. 1,362,498; Dec. 14; v. 281; p. 348.
McMinn, Stafford A., London, England. Refractory cement. No. 1,341,510; May 25; v. 274; p. 745.
McMonagle, Thomas, Bath, Me. Shaving-brush. No. 1,344,050; June 22; v. 275; p. 660.
McMullen, Ernest E., St. Louis, Mo. Combined desk blotter-pad and file. No. 1,331,995; Feb. 24; v. 271; p. 618.
McMullen, John, Buffalo, N. Y. Safety device for brake-beams and the like. No. 1,338,317; Apr. 27; v. 273; p. 699.
McMullen, William H., Houston, Tex. Rudder-bar for aeroplanes. No. 1,341,567; May 25; v. 274; p. 756.
McMullin, Joseph B., assignor to Western Manufacturing Co., Oskaloosa, Iowa. Tire-pump connection. No. 1,340,785; May 18; v. 274; p. 534.
McMurray, Samuel M., Smyrna, Tenn. Pigment-powder for making smear-proof impressions. No. 1,342,638; June 8; v. 275; p. 252.
McMurray, Thomas, *et al.* (See Wickliffe, Charles E., assignor.)
McMurry, Fred R., Westwood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling mechanism. No. 1,337,783; Apr. 20; v. 273; p. 529.
McMurry, John D. (See Cary, J. H., and McMurry.)
McMurtry Manufacturing Company, The. (See McAneny and May, assignors.)
McMyler Interstate Company, The. (See Kaltenbach, Robert W., assignor.)
McNab, Alexander, Bridgeport, Conn. Educational toy. No. 1,331,817; Feb. 24; v. 271; p. 584.
McNab, Norman S., Melbourne, Victoria, Australia. Mode of and means for grading fruit and other articles. No. 1,346,835; July 20; v. 276; p. 418.
McNair, Louise R., Arcade, N. Y. Diaper. No. 1,329,619; Feb. 3; v. 271; p. 51.
McNamara, Francis, New Rochelle, N. Y. Multiple pipe-fitting. No. 1,362,718; Dec. 21; v. 281; p. 443.
McNamara, James, Portland, Oreg. Pressure-regulator. No. 1,335,903; Apr. 6; v. 273; p. 87.
McNamara, John E., assignor to Seward Trunk and Bag Company, Petersburg, Va. Self-locking drawer. No. 1,363,524; Dec. 28; v. 281; p. 639.
McNamara, Joseph M., Clinton, Mass. Quick-detachable combined dust and air cap for valve-stems. No. 1,331,347; Feb. 17; v. 271; p. 474.
McNamara, Raymond F., assignor to Maxwell Motor Company, Inc., Detroit, Mich. Towing connection for vehicles. No. 1,342,507; June 8; v. 275; p. 227.
McNamara, Thomas H., San Francisco, Calif. Douche. No. 1,329,718; Feb. 3; v. 271; p. 69.
McNatt, Lucie R., Arlington, Tex. Comfort and the like. No. 1,347,642; July 27; v. 276; p. 634.
McNaught, Alexander, Manitowoc, Wis. Balanced rudder. No. 1,358,087; Nov. 9; v. 280; p. 231.
McNaught, Harry W., assignor to Automatic Machinery Company, Terre Haute, Ind. Leer-feeder. No. 1,363,609; Dec. 28; v. 281; p. 656.
McNaughton, Alexander, Buffalo, N. Y. Delivery-receptacle lock. No. 1,354,500; Oct. 5; v. 279; p. 10.
McNaughton, Alexander L., Kamloops, British Columbia, Canada. Drop-light bracket. No. 1,357,295; Nov. 2; v. 280; p. 18.
McNaughton, Robert I., Minot, N. D. Sack-holder. No. 1,329,985; Feb. 3; v. 271; p. 120.
McNeal, Joseph W., St. Paul, Minn. Checkrow corn-planter. No. 1,353,927; Sept. 28; v. 278; p. 573.
McNeel, Grant, North Platte, Nebr. Decarbonizer attachment for engines. No. 1,338,993; May 4; v. 274; p. 63.
McNeil, Charles, Glasgow, Scotland. Macerating crushed sugar-cane. No. 1,328,090; Jan. 13; v. 270; p. 288.
McNeil, Charles H., Beverly, Mass. Weight-operated circuit-closer. No. 1,353,057; Sept. 14; v. 278; p. 298.
McNeil, Charles R., New York, N. Y. Musical-instruction chart. No. 1,338,236; Apr. 27; v. 273; p. 684.
McNeil, Claude P. (See Wilson, R. E., and McNeil.)
McNeil, George W., and C. F. Anderson, Denver, Colo. Hydraulic cartridge. No. 1,358,767; Nov. 16; v. 280; p. 412.
McNeil, John, assignor to The John Douglas Company, Cincinnati, Ohio. Flushing-nozzle. No. 1,342,124; June 1; v. 275; p. 100.
McNeil, John, assignor to The John Douglas Company, Cincinnati, Ohio. Automatic flush-valve. No. 1,355,988; Oct. 19; v. 279; p. 395.
McNeil, Percival E., Essendon, Victoria, Australia. Method of and apparatus for detecting pitting and the like in tubes and pipes. No. 1,363,258; Dec. 28; v. 281; p. 589.
McNeil, Roderick C. (See Josephson, Harry, assignor.)
McNeill, Dennis, Huntington, W. Va. Phonograph attachment. No. 1,341,511; May 25; v. 274; p. 745.
McNeill, George, Detroit, Mich., assignor to Morgan & Wright. Tire-bead-cutting apparatus. No. 1,332,990; Mar. 9; v. 272; p. 207.
McNeill, Herbert M., Wanganui, New Zealand. Implement for use on lawns. No. 1,338,144; Apr. 27; v. 273; p. 666.
McNeill, John D., Chicago, Ill. Metal mold and making same. No. 1,333,502; Mar. 9; v. 272; p. 303.
McNeill, John D., Lawrence, Kan. Automobile-cap. No. 1,356,542; Oct. 26; v. 279; p. 551.
McNerny, Clyde J., assignor to H. Loeb and H. Hurst, Memphis, Tenn. Oil-burner. No. 1,345,612; July 6; v. 276; p. 56.
McNichol, Frederick W., St. John, New Brunswick, Canada. Sheet-holding attachment for music-racks. No. 1,359,816; Nov. 23; v. 280; p. 662.
McNicholas, Hiram, Connell, Wash. Cam-operated circuit-closer. No. 1,342,591; June 8; v. 275; p. 244.
McNish, Thomas N., Kearney, N. J., assignor to The Peelle Company, Brooklyn, N. Y. Controlling mechanism for elevator cars. No. 1,356,994; Oct. 26; v. 279; p. 639.

Digitized by Google

Alphabetical list of patentees—Continued.

McNitt, Archibald, Benton Harbor, Mich. Change-speed gear. No. 1,350,822; Aug. 24; v. 277; p. 696.
McNulty, James A. (See Jessen, James, assignor.)
McNulty, Thomas E., San Francisco, Calif. Combined desk and seat frame. No. 1,355,681; Oct. 12; v. 279; p. 295.
McNulty, Walter L., Peace Dale, R. I. Mine. No. 1,327,488; Jan. 6; v. 270; p. 113.
McNutt, Hiram F., Richmond, Ind. Aeroplane-drive. No. 1,346,327; July 13; v. 276; p. 260.
McNutt, Louis, Brazil, Ind. Meter-support. No. 1,357,107; Oct. 26; v. 279; p. 662.
McOmber, Loren W., Milwaukee, Wis., assignor of one half to C. B. Belknap, Detroit, Mich. Treating hydrocarbons. No. 1,345,452; July 6; v. 276; p. 24.
McOmber, William H., East Chicago, Ind. Awning. No. 1,342,452; June 8; v. 275; p. 217.
McPartland, James H., Houlton, Me. Sewing-machine. No. 1,336,365; Apr. 6; v. 273; p. 125.
McPhail, Archibald, Fargo, N. D., assignor to Sterling Machine and Wire Works, Beneficial Trust Association (Unincorporated), Sterling, Ill. Machine for manufacturing spiral combined reinforcement and fastening. No. 1,352,904; Sept. 14; v. 278; p. 268.
McPheeters, Adam A., Cananea, Mexico. Superfloor structure. No. 1,341,187; May 25; v. 274; p. 683.
McPherson, Arthur E., assignor to J. Rosenthal, Beaumont, Tex. Demountable rim. No. 1,338,145; Apr. 27; v. 273; p. 667.
McPheters, Selden G., Oldtown, Me. Automatic marking or stamping device. No. 1,343,633; June 15; v. 275; p. 512.
McPhillips, Frank, Toledo, Ohio. Waterproofing composition. No. 1,358,226; Nov. 9; v. 280; p. 2.
McQuaid, Harry, assignor to The Timken Roller Bearing Company, Canton, Ohio. Piercing-mill guide. No. 1,362,719; Dec. 21; v. 281; p. 443.
McQuaid, Howard S. (See Given, G. C., McQuaid, and Long.)
McQuaid, John J., Shinnston, W. Va. Animal-trap. No. 1,362,168; Dec. 14; v. 281; p. 284.
McQuarrie, James L., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,337,713; Apr. 20; v. 273; p. 515.
McQuarrie, James L., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Automatic telephone-exchange system. No. 1,337,714; Apr. 20; v. 273; p. 516.
McQuarrie, James L., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,337,715; Apr. 20; v. 273; p. 516.
McQuarrie, James L., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Automatic switch. No. 1,337,784; Apr. 20; v. 273; p. 529.
McQuarrie, James L., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,353,601; Sept. 21; v. 278; p. 465.
McQuarrie, James L., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,356,643; Oct. 26; v. 279; p. 571.
McQuarrie, William R. D., Buffalo, N. Y. Automobile alarm-signal. No. 1,330,206; Feb. 10; v. 271; p. 193.
McQuat, Elizabeth, New York, N. Y. Music-chart. No. 1,353,486; Sept. 21; v. 278; p. 441.
McQuay-Norris Manufacturing Company. (See Beecher, Edward, assignor.)
McQuay-Norris Manufacturing Company. (See Mummert, Arden J., assignor.)
McQueary, Richard W., Grandby, Colo. Culvert. No. 1,362,952; Dec. 21; v. 281; p. 488.
McQueen, Mert, Van Hook, N. D. Stone-digging machine. No. 1,354,321; Sept. 28; v. 278; p. 653.
McQueen, Ulysses G., New York, N. Y. Hinge. No. 1,341,063; May 25; v. 274; p. 659.
McQueston, Frank S., assignor to W. M. Whitney, Winchendon, Mass. Rotary cutter. No. 1,332,736; Mar. 2; v. 272; p. 107.
McQuillen, John H., Philadelphia, Pa. Train-controlling means. No. 1,351,182; Aug. 31; v. 277; p. 827.
McQuinn, Thomas H., Hawthorn, Victoria, Australia. Combination suspenders and belt. No. 1,341,568; May 25; v. 274; p. 756.
McQuitty, Robert A., London, England. Manufacturing sheets of edible gelatin. No. 1,347,226; July 20; v. 276; p. 495.
McRae, Arthur A., Attleboro, Mass. Cuff-link. No. 1,346,039; July 6; v. 276; p. 141.
McRae, Daniel, Central Islip, N. Y. Rowing-gear. No. 1,346,040; July 6; v. 276; p. 141.
McRae, John, Vancouver, British Columbia, Canada. Marine-engine-operation indicator. No. 1,345,384; July 6; v. 276; p. 11.
McRae, Philip. (See Buck, F. H., and McRae.)
McTaggart, Daniel B., Butte, Mont. Automatic train-pipe connector. No. 1,331,939; Feb. 24; v. 271; p. 606.
McVicker, Emery M., Milwaukee, Wis. Railway tie-plate and rail fastening and anticreeper. No. 1,328,533; Jan. 20; v. 270; p. 409.
McVoy, Vincen P., Mobile, Ala., assignor to United States Railway Supply Company, Dover, Del. Grease-cup attachment. No. 1,357,885; Nov. 2; v. 280; p. 131.
McVoy, Vincen P., Mobile, Ala., assignor to United States Railway Supply Company, Dover, Del. Air-brake coupling attachment. No. 1,359,408; Nov. 16; v. 280; p. 536.
McVoy, Vincen P., Mobile, Ala., assignor to United States Railway Supply Company, Dover, Del. Engine drifting-valve. No. 1,361,737; Dec. 7; v. 281; p. 152.
McVoy, Vincen P., Mobile, Ala., assignor to United States Railway Supply Company, Dover, Del. Cylinder relief-valve. No. 1,361,738; Dec. 7; v. 281; p. 152.
McWhirter, John S., New York, N. Y. Car-control mechanism. No. 1,332,403; Mar. 2; v. 272; p. 44.
McWhirter, John S., New York, N. Y. Door-operating means for passenger-vehicles. No. 1,335,288; Mar. 30; v. 272; p. 806.
McWhirter, John S., New York, N. Y. Electric heating system. No. 1,338,088; Apr. 27; v. 273; p. 656.
McWhorter Manufacturing Company. (See Hendrickson, William A., assignor.)
McWilliams, Joseph L., San Francisco, Calif. Automobile-signal. No. 1,351,667; Aug. 31; v. 277; p. 924.
McWilliams, Rowland, Glen Ridge, N. J. Reinforced concrete construction. No. 1,353,770; Sept. 21; v. 278; p. 498.
Maag, Max, Zurich, Switzerland. Gear-cutting machine. (Reissue.) No. 14,908; July 6; v. 276; p. 154.
Maag, Max, Zurich, Switzerland. Gear-cutting machine. (Reissue.) No. 14,909; July 6; v. 276; p. 154.
Maag, Max, Zurich, and R. Frey, Höngg, near Zurich, Switzerland. Machine for generating bevel-gears. No. 1,351,580; Aug. 31; v. 277; p. 907.
Maass, Otto, Montreal, Quebec, Canada. Automatic valve. No. 1,348,505; Aug. 3; v. 277; p. 73.
Maassen, Bathasar. (See Schäfer, Karl B., assignor.)
Mabee, Charles R., Toledo, Ohio. Apparatus for treating material. No. 1,329,786; Feb. 3; v. 271; p. 82.
Mabie, Ralph R. New York, N. Y. Support for shingles. No. 1,345,683; July 6; v. 276; p. 70.
Macartney, Arthur C. (See Babson and Macartney.)
Macartney, Arthur C., assignor to Empire Cream Separator Company, Bloomfield, N. J. Apparatus for milking. No. 1,335,173; Mar. 30; v. 272; p. 785.
Macartney, Arthur C., Syracuse, N. Y., assignor to Pine Tree Milking Machine Company. Milking-machine. No. 1,344,140; June 22; v. 275; p. 677.
Macaulay, Douglas L. (See Martel, F. J., Briggs, Macaulay, Wright, and Wenner.)
Macaulay, Walter B., assignor to Yuba Manufacturing Company, Marysville, Calif. Spark-arrester. No. 1,362,025; Dec. 14; v. 281; p. 256.
Macbeth Arc Lamp Co. Inc., The. (See Eachus, Iredell, assignor.)
Macbeth, Colin, and E. Sullivan, Birmingham, assignors to The Dunlop Rubber Company, Limited, Westminster, London, England. Apparatus for applying hard rubber to tire foundation-bands. No. 1,330,886; Feb. 17; v. 271; p. 388.
Macbeth, Colin, and C. K. Jones, Birmingham, assignors to The Dunlop Rubber Company, Limited, Westminster, London, England. Machine for making pneumatic-tire covers or casings. No. 1,331,657; Feb. 24; v. 271; p. 553.
Macbeth, Colin, Birmingham, assignor to The Dunlop Rubber Company, Limited, Westminster, England. Manufacture of tires. No. 1,343,460; June 15; v. 275; p. 478.
Macbeth, Colin, Birmingham, assignor to The Dunlop Rubber Company, Limited, Westminster, London, England. Vehicle-wheel. No. 1,351,052; Aug. 31; v. 277; p. 802.
Macbeth, Colin, Birmingham, assignor to The Dunlop Rubber Company, Limited, Regents Park, London, England. Manufacture of tires. No. 1,362,169; Dec. 14; v. 281; p. 284.
Macbeth, Colin, and W. E. Hardeman, Birmingham, assignors to The Dunlop Rubber Company, Limited, Westminster, England. Manufacture of solid rubber tires. No. 1,353,769; Sept. 21; v. 278; p. 498.
Macbeth-Evans Glass Company. (See Evans, Howard S., assignor.)
Macbeth-Evans Glass Company. (See Peregrine, Clarence R., assignor.)
MacBoyle, James W., Chicago, Ill. Garment-supporter. No. 1,327,959; Jan. 13; v. 270; p. 263.
MacBryde, Louis E., Newark, N. J., assignor to G. Snyder, Fostoria, Ohio. Relief-valve. No. 1,343,735; June 15; v. 275; p. 533.
MacCallum, Dorothy L., Cambridge, Mass. Waterproof garment. No. 1,348,818; Aug. 3; v. 277; p. 132.
MacCamley, Charles M., Huntington Park, Calif. Gas-burner. No. 1,359,405; Nov. 16; v. 280; p. 535.
Macdermid, James H., and H. S. Wells, assignors to Dodge Brothers, Detroit, Mich. Oven. No. 1,334,465; Mar. 23; v. 272; p. 590.
MacDermott, Roger J., assignor to International Steel Corporation, San Francisco, Calif. Casting cannon. No. 1,333,593; Mar. 9; v. 272; p. 320.
MacDonagh, Frank L., assignor to Acme Card System Company, Chicago, Ill. Filing system. No. 1,329,536; Feb. 3; v. 271; p. 86.

Digitized by Google

MacDonald, Angus, Melrose, Mass. Headrest attachment for beds. No. 1,353,537; Sept. 21; v. 278; p. 451.
Macdonald, Angus S., Great Neck Station, and E. M. Huggins, New York, N. Y. Heat-treating apparatus. No. 1,334,663; Mar. 23; v. 272; p. 627.
Macdonald, Angus S., Great Neck Station, N. Y., and H. P. Macdonald, Montclair, assignors to The Snead & Co. Iron Works, Jersey City, N. J. Developing defects in metallic objects. No. 1,327,341; Jan. 6; v. 270; p. 85.
MacDonald, Creighton S., Attleboro, Mass. Buckle. No. 1,347,171; July 20; v. 276; p. 484.
MacDonald, Clifford K., Brockton, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Nurling-machine. No. 1,358,169; Nov. 9; v. 280; p. 247.
Macdonald, David B., Leicester, England. Toe-puff and like stiffener for boots and shoes. No. 1,345,944; July 6; v. 276; p. 122.
Macdonald, Duncan, West Homestead, Pa. Automobile-steering attachment. No. 1,328,681; Jan. 20; v. 270; p. 436.
MacDonald, Frank J. (See Falor, A. E., and MacDonald.)
MacDonald, Frank J., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Rack. No. 1,350,662; Aug. 24; v. 277; p. 664.
MacDonald, George M., San Bernardino, Calif. Artificial honeycomb and making same. No. 1,360,426; Nov. 30; v. 280; p. 850.
MacDonald, George S., Portland, Oreg. Internal-combustion engine. No. 1,347,817; July 27; v. 276; p. 669.
Macdonald, Harry P. (See Macdonald, Angus S. and H. P.)
Macdonald, Harry P., Montclair, assignor to The Snead & Co. Iron Works, Jersey City, N. J. Method of and apparatus for heat-treating metallic articles. No. 1,335,977; Apr. 6; v. 273; p. 52.
MacDonald, Harry P., Montclair, N. J., assignor to The Snead & Co. Iron Works. Method of and apparatus for heat-treating metallic articles. No. 1,344,643; June 29; v. 275; p. 842.
Macdonald, Harry P., Montclair, assignor to The Snead & Co. Iron Works, Jersey City, N. J. Coupling or joint. No. 1,360,555; Nov. 30; v. 280; p. 875.
MacDonald, Howard G., Murraysville, Pa., assignor to Westinghouse Electric and Manufacturing Company. Circuit-interrupter. No. 1,330,598; Feb. 10; v. 271; p. 265.
MacDonald, Jack B., Oakland, Calif. Lubricating device. No. 1,327,565; Jan. 6; v. 270; p. 128.
MacDonald, Jack B., Oakland, Calif. Traction-boat. No. 1,345,326; June 29; v. 275; p. 972.
MacDonald, Jack B., Oakland, Calif. Burner for bake-ovens. No. 1,363,048; Dec. 21; v. 281; p. 507.
MacDonald, John, & Son. (See Walker, William, assignor.)
MacDonald, John E., River Forest, assignor to Illinois Engineering Company, Chicago, Ill. Heating system. No. 1,326,944; Jan. 6; v. 270; p. 12.
MacDonald, Kenneth P., Lincoln, Nebr. Automatic self-locking differential gearing. No. 1,341,276; May 25; v. 274; p. 699.
Macdonald, Robert B., Oakland, assignor, by mesne assignments, to W. H. Winkley, Los Angeles, Calif. Heat-insulating material and making same. No. 1,332,348; Mar. 2; v. 272; p. 83.
MacDonald, Ronald, Seattle, Wash. Shipwright's level. No. 1,359,882; Nov. 23; v. 280; p. 675.
Macdonald, William P., Vancouver, British Columbia, Canada. Internal-combustion engine. No. 1,361,390; Dec. 7; v. 281; p. 82.
MacDonald, William T. (See Engelman, E. W., and MacDonald.)
MacDonell, Arthur A., Louisville, Ky. Screen for windshields. No. 1,333,028; Mar. 9; v. 272; p. 214.
Macdonough, George H., Boston, Mass. Fountain-pen. No. 1,357,068; Oct. 26; v. 279; p. 654.
MacDougall, Harry W., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,329,004; Jan. 27; v. 270; p. 526.
MacDowall, John L., Perth Amboy, and W. K. Bassford, Metuchen, N. J. Safety device for oil heaters and lamps. No. 1,343,217; June 15; v. 275; p. 432.
MacDowell, Glenn J., Chicago, Ill. Finder attachment for cameras. No. 1,330,273; Feb. 10; v. 271; p. 205.
MacDowell, Glenn J., assignor to Burke & James, Inc., Chicago, Ill. Photographic-plate rack. No. 1,349,972; Aug. 17; v. 277; p. 484.
Mace, Clement H., Denver, Colo., assignor to A. T. Carozza, Baltimore, Md. Blast-furnace. No. 1,334,310; Mar. 23; v. 272; p. 561.
Macé, Jules, Grasse, France. Safety keyless lock. No. 1,337,242; Apr. 20; v. 273; p. 426.
Macé, Jules, Grasse, France. Dial. No. 1,337,243; Apr. 20; v. 273; p. 426.
Mace, Thomas W. (See Beeson, Byron P., assignor.)
Mace, William C., Marshfield, Oreg. Vending-machine. No. 1,355,058; Oct. 5; v. 279; p. 121.
Maceska, Joseph, Yankton, S. D. Automobile-lock. No. 1,361,391; Dec. 7; v. 281; p. 82.
MacEwan, Robert S., Troy, N. Y. Reamer-frame. No. 1,339,118; May 4; v. 274; p. 88.
Macfadden, Bernarr, New York, N. Y. Spine-exerciser. No. 1,336,910; Apr. 13; v. 273; p. 289.
Macfarland, Harry A., and A. J. Roth, assignors to The Mount Vernon Company—Silversmiths, Inc., Mount Vernon, N. Y. Bracket and holder for rear-vision mirrors. No. 1,345,018; June 29; v. 275; p. 912.
MacFarland, Helon B., Chicago, Ill., and R. J. Shoemaker, Topeka, Kans., assignors of one-half to said MacFarland and one-half to E. H. Gold, Chicago, Ill. Material for deadening sound and other purposes and making same. No. 1,333,624; Mar. 16; v. 272; p. 887.
Macfarlane, George T., Pinner, England. Winch. No. 1,345,613; July 6; v. 276; p. 56.
MacFarlane, William M., Scranton, Pa. Coal-separator. No. 1,345,453; July 6; v. 276; p. 24.
Macfarlane, William W., Elkins Park, Pa. Train-control system. No. 1,363,525; Dec. 28; v. 281; p. 640.
MacFetridge, George, Philadelphia, Pa. Hydraulic motor. No. 1,360,965; Nov. 30; v. 280; p. 955.
MacGahan, Paul, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Distributing system. No. 1,329,193; Jan. 27; v. 270; p. 562.
MacGahan, Paul, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical device. No. 1,339,902; May 11; v. 274; p. 310.
MacGahan, Paul, assignor to Westinghouse Electric and Manufacturing Company, Pittsburgh, Pa. Contact member. No. 1,358,765; Nov. 16; v. 280; p. 412.
MacGregor Instrument Company. (See MacGregor, John, assignor.)
MacGregor, James, Braintree, Mass. Device for distributing sand. No. 1,363,185; Dec. 21; v. 281; p. 533.
MacGregor, James, Glasgow, Scotland, assignor to Herbert Austin, Fall River, Mass. Extracting oleaginous substances from oleaginous-substance-containing materials. No. 1,351,483; Aug. 31; v. 277; p. 887.
MacGregor, John, Roslindale, Mass., assignor to MacGregor Instrument Company. Syringe. No. 1,331,271; Feb. 17; v. 271; p. 460.
MacGregor, John G., Pequannock, N. J. Grease-gun. No. 1,340,726; May 18; v. 274; p. 523.
MacGregor-Morris, John T. (See Sykes, A. F., and MacGregor-Morris.)
MacGregor, Robert, Port Glasgow, Scotland. Telemotor. No. 1,340,727; May 18; v. 274; p. 523.
MacGregor, William, assignor to The Carborundum Company, Niagara Falls, N. Y. Apparatus for smoothing and polishing stone. No. 1,327,440; Jan. 6; v. 270; p. 104.
Machacek, Charles, Jr., Tabor, S. D. Dimmer for windshields. No. 1,332,225; Mar. 2; v. 272; p. 9.
Machado, Fausto P., New York, N. Y. Turbine engine. No. 1,356,106; Oct. 19; v. 279; p. 419.
Machado Fausto P., New York, N. Y. Turbine-engine. No. 1,360,305; Nov. 30; v. 280; p. 827.
Machava, Frank, Greensburg, Pa. Submarine. No. 1,363,137; Dec. 21; v. 281; p. 525.
Macheroux, Louis, assignor of one-half to K. Matheus, Chicago, Ill. Elastic extension device. No. 1,345,945; July 6; v. 276; p. 122.
Machlet, Adolph W., Elizabeth, N. J. Apparatus for case-hardening, &c. No. 1,337,244; Apr. 20; v. 273; p. 426.
Machles, Max, New York, N. Y. Mucilage-tube. No. 1,362,431; Dec. 14; v. 281; p. 335.
Machrol, Michael, Kenosha, Wis. Fly-wheel balancer. No. 1,352,905; Sept. 14; v. 278; p. 268.
Maciejewski, Stanley. (See Czechowicz, Jacob, assignor.)
MacIlwaine, George W., Hebburn, England. Supporting of outside staging used during the construction of ships or other structures. No. 1,341,335; May 25; v. 274; p. 711.
MacIndoe, John F., Schuylkill Falls, Pa. Grease-cup. No. 1,353,171; Sept. 21; v. 278; p. 380.
Macintosh, Archibald A., St. Kilda, and W. H. Hunt, Melbourne, Victoria, Australia. Apparatus for maintaining predetermined pressure conditions in gas-retorts. No. 1,329,129; Jan. 27; v. 270; p. 550.
MacIntosh, David, Newark, N. J. Annealing metal castings. No. 1,356,644; Oct. 26; v. 279; p. 571.
MacIntyre, Peter, Clinton, Mass. Preserving hydrosulfite liquors from decomposition. No. 1,333,029; Mar. 9; v. 272; p. 214.
MacIntyre, Peter, Clinton, Mass. Dyeing raw fibrous stock. No. 1,355,797; Oct. 12; v. 279; p. 317.
Macluk, Daniel, Toronto, Ontario, Canada. Catamaran. No. 1,328,746; Jan. 20; v. 270; p. 448.
MacIvor, Thomas J., London, Ontario, Canada. Ash-sifter. No. 1,328,174; Jan. 13; v. 270; p. 304.
Mack, E. M. (See Crabb, Isaiah, assignor.)
Mack, James O., Alexandria, La. Tunneling apparatus. No. 1,338,237; Apr. 27; v. 273; p. 684.
Mack, Joe S., Calipatria, Calif. Wagon-reach. No. 1,336,645; Apr. 13; v. 273; p. 287.
Mack, Patrick H., Bradford, Pa., assignor to Oil Well Supply Company, Pittsburgh, Pa. Oil-well packer. No. 1,350,553; Aug. 24; v. 277; p. 643.
Mackay, George M. J., Schenectady, N. Y., assignor to General Electric Company. Electric oscillator. No. 1,337,933; Apr. 20; v. 273; p. 558.

Digitized by Google

Alphabetical list of patentees—Continued.

Mackay, Robert, Walthamstow, England. Kettle or water-heater. No. 1,333,266; Mar. 9; v. 272; p. 258.
Mackenrot, Percy W., Vancouver, British Columbia, Canada. Salting-machine. No. 1,339,212; May 4; v. 274; p. 104.
Mackenzie, Alexander S., assignor to Texas Oil Well Pump Company, Houston, Tex. Pump-plunger. No. 1,338,943; May 4; v. 274; p. 54.
Mackenzie, Cecilia M., and J. E. Mackenzie, deceased, London, England, C. M. Mackenzie, executrix, assignors to Carr Fastener Company, Cambridge, Mass. (Reissue. No. 14,975; Nov. 2; v. 280; p. 140.
MacKenzie, Chester M. (See Herman, S. J., and MacKenzie.)
Mackenzie, Duncan G. (See Wellington, J. M., and Mackenzie.)
Mackenzie, Jessie E. (See Mackenzie, Cecilia M., and J. E.) (Reissue.)
MacKersie, Arthur M., San Jacinto, Calif. Buckrake and stacker. No. 1,343,398; June 15; v. 275; p. 466.
Mackey, Frank F., Sexsmith, Alberta, Canada. Mail-box signal. No. 1,334,106; Mar. 16; v. 272; p. 477.
Mackey, Jay A., assignor to Hamel Shoe Machinery Company, Lynn, Mass. Tack-loader. No. 1,329,787; Feb. 3; v. 271; p. 82.
Mackey, Jay A., Lynn, Mass., assignor to The Singer Manufacturing Company, Elizabethport, N. J. Perforating-machine. No. 1,329,788; Feb. 3; v. 271; p. 82.
Mackey, John B., Hop Bottom, Pa. Agricultural implement. No. 1,342,125; June 1; v. 275; p. 101.
Mackey, Joseph L., Fowler, Ill. Car-door. No. 1,347,283; July 20; v. 276; p. 507.
Mackey, Joseph L., Fowler, Ill. Metallic grain-door for cars. No. 1,356,456; Oct. 19; v. 279; p. 487.
Mackie, Alfred R., Lander, Wyo. Concentrator. No. 1,344,051; June 22; v. 275; p. 660.
Mackie, John, and J. J. Cottrell, Grand Junction, Colo. Spring-oiling device. No. 1,335,516; Mar. 30; v. 272; p. 848.
MacKillican, James A., and F. L. Lipcsey, Hibbing, Minn. Excavating-machine. No. 1,351,212; Aug. 31; v. 277; p. 833.
Mackin, Frank A., Middleport, Ohio. Attachment for oil-boxes. No. 1,348,433; Aug. 3; v. 277; p. 60.
MacKinnon, Archibald, Tuckahoe, N. Y. Window construction. No. 1,330,714; Feb. 10; v. 271; p. 287.
MacKinnon, Archibald, Tuckahoe, N. Y. Mold for making cork boards. No. 1,361,081; Dec. 7; v. 281; p. 20.
Mackintosh, Alexander L., Denver, Colo., assignor of one-half to D. R. Riddick, Rawlins, Wyo. Educational toy. No. 1,349,776; Aug. 17; v. 277; p. 446.
Mackintosh, Alexander L. (See Riddick, David R., assignor.)
Mackintosh, Edith M., *et al.* (See Mackintosh, Edward D., assignor.)
Mackintosh, Edward D., Brooklyn, assignor to S. S. Hepworth Company, New York, and E. M. Mackintosh, Brooklyn, N. Y. Driving electric centrifugal machines. No. 1,342,405; June 1; v. 275; p. 154.
Mackintosh, Edward D., Brooklyn, assignor to S. S. Hepworth Company, New York, and E. M. Mackintosh, Brooklyn, N. Y. Brake. No. 1,347,347; July 20; v. 276; p. 519.
Macklem, John J., Goshen, Ind. Sectional scaffold. No. 1,351,053; Aug. 31; v. 277; p. 802.
Maclachlan, Angus, Perth Amboy, N. J. Apparatus for treating waste organic substances. No. 1,359,085; Nov. 16; v. 280; p. 473.
Maclachlin, Angus, Perth Amboy, N. J. Treating waste organic substances. No. 1,359,086; Nov. 16; v. 280; p. 473.
Maclachlan, Angus, assignor of one-fourth to F. G. Reigart, Pittsburgh, Pa. Process of and apparatus for treating waste organic substances. No. 1,360,427; Nov. 30; v. 280; p. 850.
MacLachlan, John C., St. Paul, Minn. Apparatus for producing powdered meat products and the like. No. 1,335,121; Mar. 30; v. 272; p. 775.
MacLagan, H. P., Park Ridge, assignor to McIntosh Battery and Optical Co., Chicago, Ill. Cassette. No. 1,352,615; Sept. 14; v. 278; p. 209.
MacLagan, Hector P., Park Ridge, assignor to McIntosh Battery and Optical Co., Chicago, Ill. X-ray cone. No. 1,352,198; Sept. 7; v. 278; p. 93.
Maclagen, John C. M., Glasgow, Scotland. Piston and piston-rod for internal-combustion engines. No. 1,346,041; July 6; v. 276; p. 141.
MacLanglois, Obart, assignor of one-half to J. W. Oakes, Los Angeles, Calif. Tire-vulcanizing mold. No. 1,358,381; Nov. 9; v. 280; p. 290.
MacLanglois, Obart, assignor of one-half to James W. Oakes, Los Angeles, Calif. Multiple-alarm system. No. 1,359,263; Nov. 16; v. 280; p. 507.
Maclaren, James G., Mamaroneck, N. Y. Pneumatic-despatch-tube apparatus. No. 1,327,718; Jan. 13; v. 270; p. 218.
Maclaren, James G., Mamaroneck, N. Y. Governing mechanism for despatch systems. No. 1,354,116; Sept. 28; v. 278; p. 612.
Maclaren, James G., Harrison, N. Y. Pneumatic-despatch-tube apparatus. No. 1,346,042; July 6; v. 276; p. 141.
MacLaurin, William. (See Farrell, Frederick W., assignor.)
MacLean, Archibald K., Ottawa, Ontario, Canada. Grain-cleaner. No. 1,360,556; Nov. 30; v. 280; p. 876.
MacLennan, Joseph A., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Conveyer. No. 1,331,020; Feb. 17; v. 271; p. 415.
Macleod, Donald K. (See Blair, D. E., and Macleod.)
Macleod, Hector, Guelph, Ontario, Canada, assignor to Kawneer Manufacturing Company, Niles, Mich. Trailing edge for airplanes. No. 1,355,611; Oct. 12; v. 279; p. 281.
Macloskie, George, Erie, Pa., assignor to General Electric Company. Air-brake system. No. 1,339,962; May 11; v. 274; p. 322.
Macmillan, Campbell, Schenectady, N. Y., assignor to General Electric Company. Thrust-measuring instrument. No. 1,347,348; July 20; v. 276; p. 520.
Macmillan, Campbell, assignor to General Electric Company, Schenectady, N. Y. Induction-motor. No. 1,356,933; Oct. 26; v. 279; p. 627.
Macmillan, Campbell, assignor to General Electric Company, Schenectady, N. Y. Multi-speed induction-motor. No. 1,356,934; Oct. 26; v. 279; p. 628.
Macmillan, Campbell, assignor to General Electric Company, Schenectady, N. Y. Multispeed induction-motors. No. 1,356,935; Oct. 26; v. 279; p. 628.
Macmillan, Campbell, assignor to General Electric Company, Schenectady, N. Y. Induction-motor. No. 1,356,936; Oct. 26; v. 279; p. 628.
Macmillan, Colin H., Anniesland, Glasgow, Scotland. Reversing-gear. No. 1,350,324; Aug. 24; v. 277; p. 598.
MacMillan, Daniel W., Providence, R. I. Soft-collar fastener. No. 1,359,612; Nov. 23; v. 280; p. 621.
MacMillan, John R., assignor to Niagara Alkali Company, Niagara Falls, N. Y. Oxidizing apparatus. No. 1,333,327; Mar. 9; v. 272; p. 270.
MacMillan, William J. (See Sullivan, D. C., Hawkins, and MacMillan.)
Macnab, Joseph, and G. H. Smith, Bredbury, near Stockport, England. Interconnected clutch and gear-shift for lathes and other machine-tools. No. 1,342,126; June 1; v. 275; p. 101.
Macneir, Edwin, Philadelphia, Pa., assignor to The Edna Brass Manufacturing Company, Cincinnati, Ohio. Water-gage. No. 1,335,904; Apr. 6; v. 273; p. 38.
MacNichol, George P., assignor, by mesne assignments, to J. N. Willys, Toledo, Ohio. Glassware-forming mechanism. No. 1,343,179; June 8; v. 275; p. 360.
MacNicoll, Donald. (See Cockburn, D., and MacNicoll.)
Macomber, Herbert H., assignor to Flint & Walling Mfg. Co., Kendallville, Ind. Pressure-regulator. No. 1,349,843; Aug. 17; v. 277; p. 459.
Macphail, W. M., *et al.* (See Coulter, Hugh, A., assignor.)
Macpherson, Byron, Roxbury, assignor, by mesne assignments, to Mica Condenser Company, Ltd., Boston, Mass. Rehealing process for condensers. No. 1,337,245; Apr. 20; v. 273; p. 427.
Macpherson, Byron, Roxbury, assignor, by mesne assignments, to Mica Condenser Company, Ltd., Boston, Mass. Building-stand for condensers. No. 1,337,246; Apr. 20; v. 273; p. 427.
Macpherson, Byron, Roxbury, assignor, by mesne assignments, to Mica Condenser Company Ltd., Boston, Mass. Condenser and making same. No. 1,341,336; May 25; v. 274; p. 711.
MacPherson, Warren, Cambridge, Mass. Rubber shoe-bottom. No. 1,350,930; Aug. 24; v. 277; p. 715.
Macrae, Roderick, Chicago, Ill. Electric vehicle. No. 1,332,561; Mar. 2; v. 272; p. 74.
Mac-Rim Company, The. (See McCormack, Anthony J., assignor.)
Macropoulos, Constantine D., New York, N. Y. Tire. No. 1,348,954; Aug. 10; v. 277; p. 211.
MacTaggart, Hugh H., and R. G. Scott, Loanhead, Scotland. Telemotor apparatus. No. 1,332,050; Feb. 24; v. 271; p. 628.
MacTaggart, Hugh H., and R. G. Scott, Loanhead, Scotland. Rotary pump and motor. No. 1,360,128; Nov. 23; v. 280; p. 724.
Macy, Alfred J., Chicago, Ill., assignor to Macy Engineering Company, Franklin, Pa. Stabilizing control for aeroplanes. No. 1,326,945; Jan. 6; v. 270; p. 12.
Macy, Alfred J., Chicago, Ill., assignor to Macy Engineering Company, Franklin, Pa. Automatic control for vehicles. No. 1,326,946; Jan. 6; v. 270; p. 13.
Macy, Alfred J., Chicago, Ill., assignor to Macy Engineering Company, Franklin, Pa. Stabilizer. No. 1,327,055; Jan. 6; v. 270; p. 33.
Macy Engineering Company. (See Macy, Alfred J., assignor.)
Madan, Edward K. (See Morinsky, L., and Madan.)
Madary, Edward C. (See Perkett, L. F., and Madary.)
Madden, Bert L., and L. R. Evans, assignors to Cyclemotor Corporation, Rochester, N. Y. Engine-crank rotator. No. 1,360,306; Nov. 30; v. 280; p. 827.
Madden, Edward J., Detroit, Mich. Spring-shackle. No. 1,362,720; Dec. 21; v. 281; p. 442.
Madden, Harry D., assignor to Westinghouse Lamp Company, Irvington, N. J. Manufacture of incandescent electric lamps. No. 1,349,686; Aug. 17; v. 277; p. 429.
Madden, James J., Aberdeen, S. D. Lens. No. 1,346,410; July 13; v. 276; p. 275.
Madden, John W., Pittsfield, Mass. Stove-damper. No. 1,356,383; Oct. 19; v. 279; p. 473.

Digitized by Google

Madden, Michael. (See Sourbier and Madden.)
Madden, Murray M., Shiprock, N. Mex. Sun-dial and compass. No. 1,343,515; June 15; v. 275; p. 489.
Madden, Patrick H., Sparta, Wis. Rail-truck. No. 1,352,076; Sept. 7; v. 278; p. 70.
Maddox, Robert A., Los Angeles, Calif. Sewer-flushing mechanism. No. 1,349,078; Aug. 10; v. 277; p. 235.
Maddox, Robert D., U. S. Army. Mixing and grinding apparatus irregularly operated. No. 1,337,716; Apr. 20; v. 273; p. 516.
Maddox, Robert D., U. S. Army. Arm-abduction splint. No. 1,340,630; May 18; v. 274; p. 505.
Maddox, Robert D., U. S. Army. Drill. No. 1,343,180; June 8; v. 275; p. 360.
Madère, Ernest H., Hahnville, La. Hand-controlled rotary cutting implement. No. 1,342,294; June 1; v. 275; p. 133.
Madigan, Thomas J., Brooklyn, assignor of one-fourth to J. O. Schwank, New York, N. Y. Battery hand-lamp. No. 1,340,550; May 18; v. 274; p. 490.
Madill, David, Salt Lake City, Utah. Coupling-link. No. 1,351,298; Aug. 31; v. 277; p. 850.
Madison, Arthur E., Redlands, Calif. Marble-shooter. No. 1,337,934; Apr. 20; v. 273; p. 558.
Madison, John O., Brooklyn, N. Y. Trussed building construction. No. 1,344,767; June 29; v. 275; p. 866.
Madison Kipp Corporation. (See Coles, Wilfred G., assignor.)
Madison Kipp Corporation. (See Erickson, John, assignor.)
Madison, Mart J., assignor to Weir Frog Company, Norwood, Ohio. Rail-bolt. No. 1,337,365; Apr. 20; v. 273; p. 449.
Madison, Peter. (See Kilmer, O. H., and Madison.)
Madrin, Leonard B., Houston, Tex. Gate-valve lock. No. 1,354,322; Sept. 28; v. 278; p. 653.
Madsen, Chresten T., Oakland, Calif. Cork-extractor. No. 1,340,551; May 18; v. 274; p. 490.
Madsen, Elith C., Hazleton, Pa. Ash, cinder, and coal separator. No. 1,351,861; Sept. 7; v. 278; p. 30.
Madsen, Francis M., San Francisco, Calif., assignor, to The Rudolph Wurlitzer Manufacturing Company, North Tonawanda, N. Y. Double Tracker Musical Instrument. No. 1,327,342; Jan. 6; v. 270; p. 85.
Madsen, Peter N., Detroit, Mich. Automobile-lock. No. 1,356,645; Oct. 26; v. 279; p. 571.
Madson, Theodore, Ulen, Minn. Sash-fastener. No. 1,359,409; Nov. 16; v. 280; p. 536.
Madsen, Viggo J., Fargo, N. D. Reinforced-concrete wall structure. No. 1,343,926; June 22; v. 275; p. 636.
Madunicky, John. (See Krajnah, M., and Madunicky.)
Mae, Anton, New Haven, Conn. Parallel-jaw pliers. No. 1,351,668; Aug. 31; v. 277; p. 924.
Maechler, Walter, assignor to L. E. Daniels, Chicago, Ill. Meat-tendering implement. No. 1,357,069; Oct. 26; v. 279; p. 655.
Maeda, Ginzo, Los Angeles, Calif. Cake-baking machine. No. 1,356,870; Oct. 26; v. 279; p. 615.
Maeda, Rinsai, Seattle, Wash. Surgical tourniquet. No. 1,338,578; Apr. 27; v. 273; p. 748.
Maegly, George B., Kansas City, Mo., assignor to Stromberg Motor Devices Company, Chicago, Ill. Apparatus for supplying fuel to hydrocarbon-motors. No. 1,352,671; Sept. 14; v. 278; p. 221.
Maehler, Arthur, Chicago, Ill. Sectional oven. No. 1,339,601; May 11; v. 274; p. 253.
Maffett, W. L., and J. C. Gray, assignors of one-third to J. C. Mathews, Trion, Ga. Loom let-off mechanism. No. 1,358,088; Nov. 9; v. 280; p. 231.
MaGee, Arlin E., Janesville, Wis. Tobacco-case. No. 1,361,341; Dec. 7; v. 281; p. 72.
Magee Carpet Co., The. (See McCollum, Alfred F., assignor.)
Magee, Charles L., Washington, D. C. Lubricating attachment for internal-combustion engines. No. 1,351,338; Aug. 31; v. 277; p. 859.
Magee, Frederick W., assignor of one-half to T. W. Baker, London, Ontario, Canada. Hot-water heater. No. 1,328,682; Jan. 20; v. 270; p. 436.
Magee, James, 2d. (See McCollum, Alfred F., assignor.)
Magee, Leroy, Collins, Miss. Gate-latch. No. 1,341,569; May 25; v. 274; p. 757.
Mager, Math, Garfield, Minn. Antiskid-chain. No. 1,346,226; July 13; v. 276; p. 238.
Magid, Harry M., Cleveland, Ohio. Button or badge for display-matter. No. 1,330,599; Feb. 10; v. 271; p. 265.
Magidson, Frank, Uniontown, Pa. Spring-motor mechanism. No. 1,342,857; June 8; v. 275; p. 297.
Magimorec, Andrew, Pittsburgh, Pa. Car-dump-door operator. No. 1,338,387; Apr. 27; v. 273; p. 713.
Magly, Elmer L., Baltimore, Ohio. Scale attachment for hay-presses. No. 1,362,333; Dec. 14; v. 281; p. 316.
Magnan, August, Great Falls, Mont. Wrench. No. 1,348,832; Aug. 3; v. 277; p. 134.
Magnavox Company, The. (See Jensen, Peter L., assignor.)
Magnavox Company, The. (See Pridham, Edwin S., assignor.)
Magnetic Signal Company. (See Crenshaw, Loren O., assignor.)
Magnetic Signal Company. (See Morse, Mark S., assignor.)
Magnolia Company, The. (See Bobo, Walton E., assignor.)
Magnus, John. (See Dalton and Magnus.)
Magnuson, Andrew E., New York, N. Y. Drafting-instrument. No. 1,349,550; Aug. 10; v. 277; p. 329.
Magnuson, Carl A., Portland, Oreg. Nut-lock. No. 1,353,602; Sept. 21; v. 278; p. 465.
Magnuson, Gustaf, Marble, Colo. Ship construction. No. 1,354,671; Oct. 5; v. 279; p. 45.
Magnuson, Henry O., Chicago, Ill. Molding-machine. No. 1,352,295; Sept. 7; v. 278; p. 112.
Magnuson, Terry J., assignor of one-half to E. L. Giroux, New York, N. Y. Combined cigarette or cigar box and match-containing means therefor. No. 1,329,916; Feb. 3; v. 271; p. 107.
Magrane, Robert, New York, assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y. Sealing-machine. No. 1,332,737; Mar. 2; v. 272; p. 107.
Magrane, Robert, New York, assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y. Vacuum-sealing machine. No. 1,332,738; Mar. 2; v. 272; p. 108.
Maguire, Forrest R., Pittsburgh, assignor to W. C. Davis, Larimer, S. A. Ackerson, Trafford, and W. L. Kinsey, Pittsburgh, Pa. Self-feeding apparatus. No. 1,333,208; Mar. 9; v. 272; p. 247.
Maguire, Forrest R., Pittsburgh, assignor to W. C. Davis, Larimer, S. A. Ackerson, Trafford, and W. L. Kinsey, Pittsburgh, Pa. Self-feeding apparatus. No. 1,333,209; Mar. 9; v. 272; p. 248.
Maguire, Walter J., Portland, Oreg. Address-matcher. No. 1,328,534; Jan. 20; v. 270; p. 409.
Maguire, William, and A. Bausch, Brooklyn, N. Y. Snap for bracelets. No. 1,353,772; Sept. 21; v. 278; p. 499.
Magunna, Henri, assignor to Société des Telegraphes Multiplex, (Systeme E. Mercadier - H. Magunna), Paris, France. Converter for transforming continuous electric current into isochronous undulatory currents. No. 1,359,903; Nov. 23; v. 280; p. 679.
Maguth, Michael J., Carlstadt, N. J. Clamping device. No. 1,352,296; Sept. 7; v. 278; p. 112.
Mahaffey, Florence C., Toledo, Ohio. Egg-candler. No. 1,328,091; Jan. 13; v. 270; p. 288.
Mahan, Chancy E., Shelbyville, Ill. Antiskid device for automobile-wheels. No. 1,339,963; May 11; v. 274; p. 322.
Mahan, Edgar T., Ardmore, Pa. Soldering-iron. No. 1,334,254; Mar. 16; v. 272; p. 504.
Mahan, Howard E. (See Eleyet, L. W., Ewing, Mahan, and Eleyet.)
Mahan, Peter J., Philadelphia, Pa. Truss. No. 1,340,903; May 25; v. 274; p. 627.
Mahana, Charles G., E. D. Glidden, and M. P. Laurent, Three Rivers, Mich., assignors to Fairbanks, Morse & Company, Chicago, Ill. Railway motor-car. No. 1,346,227; July 13; v. 276; p. 238.
Maher, Charles A., Wallowa, Oreg. Soap and applicator holder. No. 1,348,025; July 27; v. 276; p. 711.
Maher, James M., Fremont, Nebr. Concrete reinforced pile. No. 1,356,646; Oct. 26; v. 279; p. 571.
Maher & Kassler. (See Frankfurt, Sophie, assignor.)
Mahern, William B. (See Gosselin, H. G., and Mahern.)
Mahler, Ernst, assignor to Kimberly Clark Company, Neenah, Wis. Apparatus for making ornamental paper. No. 1,329,130; Jan. 27; v. 270; p. 550.
Mahon, Joseph T., assignor to The Henderson Rubber Company, Baltimore, Md. Treating rawhide. No. 1,359,087; Nov. 16; v. 280; p. 473.
Mahoney, Dennis J., Brooklyn, N. Y. Window-guard. No. 1,349,521; Aug. 10; v. 277; p. 324.
Mahoney, James. (See Salmons, C. C., and Mahoney.)
Mahoney, John M. (See Hutton, A., and Mahoney.)
Mahoney, Joseph N., Wilkinsburg, and W. M. Austin, Swissvale, Pa., assignors to Westinghouse Electric and Manufacturing Company. Electrical system. No. 1,363,666; Dec. 28; v. 281; p. 667.
Mahony, William F., Washington, D. C., assignor of one-half to L. A. Hawkes, Camden, N. J. Golf-tee. No. 1,335,005; Mar. 30; v. 272; p. 753.
Mahr, Julius A., Minneapolis, Minn. Folding baby-carriage. No. 1,335,122; Mar. 30; v. 272; p. 776.
Mahr, Julius A., Minneapolis, Minn. Baby-carrying basket. No. 1,363,667; Dec. 28; v. 281; p. 667.
Mahtes, Anthony, Dexterville, Wis., assignor of one-third to J. Maskollunas and one-third to J. Skinder, Chicago, Ill. Berry-picker. No. 1,353,172; Sept. 21; v. 278; p. 380.
Maier, Charles G. (See Van Arsdale, G. D., and Maier.)
Maier, Clarence J., Dayton, Ohio. Means for controlling the flow of water through hose. No. 1,337,247; Apr. 20; v. 273; p. 427.
Maier, Ferdinand, New York, N. Y. Phonograph friction toy. No. 1,355,612; Oct. 12; v. 279; p. 282.
Maier, Ferdinand, New York, N. Y. Phonograph centrifugal toy. No. 1,355,613; Oct. 12; v. 279; p. 282.
Maier, Fred, Los Angeles, Calif., assignor to Western Vulcanizer Manufacturing Company, Chicago, Ill. Retreading tires. No. 1,336,911; Apr. 13; v. 273; p. 289.
Maier, Henry, Brooklyn, N. Y. Card appliance. No. 1,344,547; June 22; v. 275; p. 757.
Maier, John, Detroit, Mich. Vise. No. 1,333,432; Mar. 9; v. 272; p. 289.

Digitized by Google

Alphabetical list of patentees—Continued.

Maier, Louis H., New York, N. Y. Automatic musical instrument. No. 1,356,107; Oct. 19; v. 279; p. 419.
Mailloux, Harvey A., Haverhill, Mass. Time-controlled furnace-regulator. No. 1,339,468; May 11; v. 274; p. 228.
Main, Daniel T., Winnipeg, Manitoba, Canada. Casting steel. No. 1,327,398; Jan. 6; v. 270; p. 96.
Main, F. P., Cleveland, Ohio. Serving-table. No. 1,353,660; Sept. 21; v. 278; p. 477.
Main, Fred F., Chicago, Ill. assignor, by mesne assignments, to New Jersey Patent Company, West Orange, N. J. Controlling device. No. 1,342,338; June 1; v. 275; p. 141.
Maine, Monroe W., assignor, by mesne assignments, to The Torrington Company, Torrington, Conn. Needle-straightening machine. No. 1,361,528; Dec. 7; v. 281; p. 111.
Mainguet, Edward, Washington, D. C. Fluid-actuated rotary motor. No. 1,362,722; Dec. 21; v. 281; p. 444.
Mainthow, Walter J., New York, N. Y. Garment. No. 1,338,187; Apr. 27; v. 273; p. 674.
Mainwaring, Albert E. (See Thomas, W., and Mainwaring.)
Maire, Auguste, Argenteuil, France, assignor to Societe Lorraine des Anciennes Etablissements de Dietrich & Cie., de Luneville, Paris, France. Special design for ball-bearings and thrust-bearings. No. 1,340,663; May 18; v. 274; p. 512.
Maire, Auguste, Argenteuil, assignor to Societe Lorraine Des Anciens Etablissements De Dietrich & Cie., De Luneville, Paris, France. Means for attaching sheet-steel jackets to cast-iron motor-cylinders for water-cooling and other purposes. No. 1,345,684; July 6; v. 276; p. 70.
Maire, Auguste, Argenteuil, assignor to Societe Lorraine Des Anciens Etablissements De Dietrich & Cie., De Luneville, Paris, France. Means for fitting up screw-propeller hubs upon their shafts. No. 1,346,665; July 13; v. 276; p. 326.
Maire, Frank L., *et al.* (See Grosjean, James E., assignor.)
Maire, Louis F., near New Haven, Ind. Traffic-signal. No. 1,331,574; Feb. 24; v. 271; p. 537.
Mairson, Fred C., Chicago, Ill. Adjustable roller-track. No. 1,358,170; Nov. 9; v. 280; p. 247.
Maisano, Ignatius, Wilmington, Del. Strainer for waste-pipes, sinks, and the like. No. 1,333,433; Mar. 9; v. 272; p. 289.
Maisano, Ignatius, Wilmington, Del. Toy. No. 1,356,647; Oct. 26; v. 279; p. 571.
Maisano, Ignatius, Wilmington, Del. Hairpin. No. 1,357,333; Nov. 2; v. 280; p. 26.
Maisano, Ignatius, Wilmington, Del. Toy. No. 1,358,768; Nov. 16; v. 280; p. 412.
Maisano, Ignatius, Wilmington, Del. Toy. No. 1,359,517; Nov. 23; v. 280; p. 662.
Maisano, Ignatius, Wilmington, Del. Toy. No. 1,360,659; Nov. 30; v. 280; p. 896.
Maisano, Ignatius, Wilmington, Del. Toy. No. 1,360,660; Nov. 30; v. 280; p. 896.
Maise, Herman C., Detroit, Mich., assignor, by mesne assignments, to E. G. Budd Manufacturing Company. Antirattler. No. 1,348,232; Aug. 3; v. 277; p. 20.
Maisel, Carl, New York, N. Y. Fluid-discharging device. No. 1,358,089; Nov. 9; v. 280; p. 232.
Maisel, Lorenz, assignor to Burgess Battery Company, Madison, Wis. Battery hand-lamp. No. 1,354,323; Sept. 28; v. 278; p. 654.
Maize, Frank P., Portland, Oreg. Auto-pedals lock. No. 1,346,098; July 6; v. 276; p. 152.
Majerus, John B., Bellechester, Minn. Grain-elevator. No. 1,338,514; Apr. 27; v. 273; p. 736.
Majewski, Frank, Chicago, Ill. Dancing-figure toy. No. 1,338,944; May 4; v. 274; p. 54.
Majewski, Wladyslaw, New York, N. Y. Rotary compression-machine. No. 1,345,208; June 29; v. 275; p. 949.
Major, Alfred J., *et al.* (See Laussucq, Henri P. L., assignor.)
Major, Alfred J., *et al.*, receivers. (See Laussucq, Henri P. L., assignor.)
Major, William R., Coshocton, and F. H. Grove, assignors to The Banner Machine Company, Columbiana, Ohio. Machine for building tire casings and tubes. No. 1,343,399; June 15; v. 275; p. 466.
Majors, Walter L., St. Louis, Mo. Oil-stove. No. 1,331,162; Feb. 17; v. 271; p. 440.
Makepeace, Bertrand L., Inc. (See Heinrich, Carl, assignor.)
Maker, Fred S. (See Maker, Ralph K., and F. S.)
Maker, Ralph K., assignor to J. Goldsmith, Jr., Providence, R. I. Hair-curling device. No. 1,338,388; Apr. 27; v. 273; p. 718.
Maker, Ralph K., Providence, R. I., and F. S. Maker, Seekonk, Mass. Collar-holder. No. 1,356,768; Oct. 26; v. 279; p. 595.
Makowski, Herman J., San Francisco, Calif. Rotary valve. No. 1,362,721; Dec. 21; v. 281; p. 443.
Makowski, John F., assignor of one-half to J. A. Levensaler, San Francisco, Calif. Machine for fabricating plaster board. No. 1,349,777; Aug. 17; v. 277; p. 446.
Makowski, John F., assignor of one-half to J. A. Levensaler, San Francisco, Calif. Wall-board and manufacturing same. No. 1,349,778; Aug. 17; v. 277; p. 447.
Makruzin, Hyman, Philadelphia, Pa. Frame for suitcases. No. 1,329,194; Jan. 27; v. 270; p. 562.
Malacos, Peter, and S. Canellos, Connellsville, Pa. Paper-hanging device. No. 1,348,290; Aug. 3; v. 277; p. 32.
Malaczynski, Peter, Brooklyn, N. Y. Padlock. No. 1,336,809; Apr. 6; v. 273; p. 114.
Malby, Seth G., Derby, assignor to Ansonia Manufacturing Company, Ansonia, Conn. Gas-valve. No. 1,328,578; Jan. 20; v. 270; p. 417.
Malby, Seth G., Derby, assignor to Ansonia Manufacturing Company, Ansonia, Conn. Safety-razor. No. 1,353,603; Sept. 21; v. 278; p. 465.
Malcher Adding Machine Company. (See Malcher, Otto, assignor.)
Malcher, Otto, assignor to Malcher Adding Machine Company, Chicago, Ill. Computing and printing scale. No. 1,335,066; Mar. 30; v. 272; p. 765.
Malcher, Otto, assignor to Malcher Adding Machine Company, Chicago, Ill. Automatic computing and registering scale. No. 1,335,067; Mar. 30; v. 272; p. 765.
Malcher, Otto, assignor to Malcher Adding Machine Company, Chicago, Ill. Computing and recording scale. No. 1,335,068; Mar. 30; v. 272; p. 765.
Malcher, Otto, assignor to Malcher Adding Machine Company, Chicago, Ill. Computing and printing scale. No. 1,335,069; Mar. 30; v. 272; p. 765.
Malcher, Otto, assignor to Malcher Adding Machine Company, Chicago, Ill. Computing and printing scale. No. 1,335,070; Mar. 30; v. 272; p. 765.
Malcolm, James. (See Preston, J. C., and Malcolm.)
Malcolm, James, Holyoke, Mass. Transmission-lock for automobiles. No. 1,351,001; Aug. 24; v. 277; p. 729.
Malcolm, Thomas, Scotstoun, Scotland. Pneumatic and other power hand-machine suspender. No. 1,332,051; Feb. 24; v. 271; p. 628.
Malcolm, Thomas J., Okmulgee, Okla. Piano-bridle-strap fastener. No. 1,343,516; June 15; v. 275; p. 489.
Malcolm, Thomas, Hartford, Conn. Door-frame and similar structure. No. 1,347,172; July 20; v. 276; p. 484.
Malcom, Robert, Chicago, Ill. Eye-protector. No. 1,328,287; Jan. 20; v. 270; p. 361.
Malcom, Robert, Chicago, Ill. Coloring flexible transparent materials. No. 1,332,349; Mar. 2; v. 272; p. 33.
Malik, John, Pittsburgh, Pa. Railway-track construction. No. 1,353,771; Sept. 21; v. 278; p. 499.
Malik, Joseph, Chicago, Ill. Toy. No. 1,334,043; Mar. 16; v. 272; p. 466.
Malin, George E., Painesville, Ohio. Tractor-cultivator. No. 1,347,818; July 27; v. 276; p. 669.
Mallvert, Eugène, assignor to himself and H. Saintagne, Paris, France. Ignition-magneto for internal-combustion engines. No. 1,334,918; Mar. 23; v. 272; p. 678.
Mallard, Henry, Stockton, Calif. Starting device for vehicle-motors. No. 1,335,345; Mar. 30; v. 272; p. 817.
Malleable Iron Fittings Co., The. (See Pickop, George B., assignor.)
Mallett, Gerald G., Princeton, Ark. Handle-securing means. No. 1,336,707; Apr. 13; v. 273; p. 250.
Mallett, Hammond W., San Diego, Calif. Wire-stretcher. No. 1,333,865; Mar. 16; v. 272; p. 432.
Mallett, Julius, St. Louis, Mo. Safety foot-guard for railway-crossings. No. 1,329,789; Feb. 3; v. 271; p. 82.
Mallette, George T., Irvington, assignor to New Jersey Patent Company, West Orange, N. J. Packing-frame. No. 1,347,643; July 27; v. 276; p. 634.
Malling, Andrew, Cleveland, Ohio. Tag-holder. No. 1,357,645; Nov. 2; v. 280; p. 84.
Mallins, Charles W., Blundellsands, near Liverpool, England. Indicator for tramcars and the like for indicating stations or stopping-places. No. 1,330,887; Feb. 17; v. 271; p. 388.
Mallinson, Joseph, Glasgow, Scotland. Chain-grate for furnaces. No. 1,327,399; Jan. 6; v. 270; p. 96.
Mallory, F. B., Company. (See Blake, Clinton F., assignor.)
Mallory, Frederick B., Portland, Oreg. Block. No. 1,359,904; Nov. 23; v. 280; p. 679.
Mallory, Marion, Wichita, Kans. Shock-absorber. No. 1,332,739; Mar. 2; v. 272; p. 108.
Mallory, Walter S. (See Mason, William H., assignor.)
Mallove, Morris, assignor of twenty-seven and one-half per cent. to J. Greenberg, and twenty-seven and one-half per cent. to P. Kleves, New York, N. Y. Basin-plug wrench. No. 1,342,025; June 1; v. 275; p. 81.
Mallow, Lewis P., Laona, Wis. Fishing-reel. No. 1,358,382; Nov. 9; v. 280; p. 290.
Malm, Axel C. V., Philadelphia, Pa., assignor to The Malm Machine Company, Dayton, Ohio. Rotary punch-press and the like. No. 1,347,644; July 27; v. 276; p. 634.
Malm, Axel C. V., Lansdowne, Pa. Steam-platen for presses. No. 1,355,236; Oct. 12; v. 279; p. 209.
Malm, Axel C. V., assignor to The Malm Machine Company, Dayton, Ohio. Rotary blank-cutting machine. No. 1,363,526; Dec. 28; v. 281; p. 640.
Malm Machine Company, The. (See Malm, Axel C. V., assignor.)
Malmberg, Anders G., Austin, Tex. Shoe-sewing-machine attachment. No. 1,341,570; May 25; v. 274; p. 757.

Digitized by Google

Malmberg, Charles J., Jamestown, N. Y. Talking-machine case. No. 1,351,778. Sept. 7; v. 278; p. 12.
Malone, Eugene Y., Mobile, Ala. Automobile-tire. No. 1,354,411; Sept. 28; v. 278; p. 671.
Malone, James A., Seattle, Wash. Parlor bowling-alley. No. 1,360,661; Nov. 30; v. 280; p. 897.
Malone, James H. (See Peck, Frederick G., assignor.)
Maloney, Henry P., assignor of one-third to H. Harris, St. Louis, Mo. Piston-ring. No. 1,355,237; Oct. 12; v. 279; p. 209.
Maloney, Michael D., Hadlock, Wash. Match-box. No. 1,350,977; Aug. 24; v. 277; p. 724.
Maloney, Michael F. (See Leonard, P. A., Maloney, and Fandrich.)
Maloney, Peter J., and W. E., Worcester, Mass. Bread-toaster. No. 1,363,527; Dec. 28; v. 281; p. 640.
Maloney, William E. (See Maloney, Peter J. and W. E.)
Maloney, William T., Waterbury, Conn., assignor to Robert H. Ingersoll & Bros., New York, N. Y. Dial and dial-fastener. No. 1,338,745; May 4; v. 274; p. 18.
Maloy, John, La Conner, Wash. Combination match-box. No. 1,361,268; Dec. 7; v. 281; p. 57.
Malsbary, Otis G., Parlier, Calif. Track-laying wheel. No. 1,353,256; Sept. 21; v. 278; p. 396.
Maltby, Frank D. (See Sherman, H. B., and Maltby.)
Maltby, George L. (See Smedberg, John W., assignor.)
Malthaner, John F., Atlanta, Ga. Recording-telephone. No. 1,335,978; Apr. 6; v. 273; p. 52.
Malthaner, John F., Atlanta, Ga. Combined telephone and phonograph. No. 1,344,918; June 29; v. 275; p. 894.
Maltman, Francis D., Sebastopol, Calif. Fruit-drier. No. 1,331,658; Feb. 24; v. 271; p. 553.
Malton, George M. (See Smith, Cloyde H., assignor.)
Maltry, Peter, and W. T. Heckler, Blue Island, Ill. Piston-push-rod holder. No. 1,328,092; Jan. 13; v. 270; p. 288.
Maltz, Meyer, assignor of one-half to B. M. Arnesen and one-half to W. C. Utes, Chicago, Ill. Phonograph-tone modifier. No. 1,339,404; May 11; v. 274; p. 215.
Malys, Joseph B., East Youngstown, Ohio. Safety-lock. No. 1,337,085; Apr. 13; v. 273; p. 822.
Malysheff, Alexander P., Tomsk, Russia, assignor to Tinius Olsen Testing Machine Company, Philadelphia, Pa. Machine for testing. No. 1,348,026; July 27; v. 276; p. 711.
Mamiya, Katsusaburo, Ohito, assignor to Kabushiki-Kwaisha Mamiyado, Tokyo, Japan. Anchoring device for safes. No. 1,352,906; Sept. 14; v. 278; p. 268.
Mammen, Harry P., Springfield, Ohio. Governor for internal-combustion engines. No. 1,332,630; Mar. 2; v. 272; p. 87.
Mample, Adolph Z., St. Paul, Minn. Electric combination-lock. No. 1,353,257; Sept. 21; v. 278; p. 396.
Manahan, Michael J., assignor of one-third to E. H. Remick, Indianapolis, Ind. Curtain-bracket. No. 1,328,579; Jan. 20; v. 270; p. 417.
Mancha, Raymond, assignor to Mancha Storage Battery Locomotive Company, St. Louis, Mo. Storage-battery locomotive. No. 1,337,610; Apr. 20; v. 273; p. 495.
Mancha Storage Battery Locomotive Company. (See Mancha, Raymond, assignor.)
Manchester Oxide Company, The. (See Clayton, R. H., Huebner, and Williams, assignors.)
Mancini, Amedeo A., Brooklyn, N. Y. Time-lock. No. 1,347,047; July 20; v. 276; p. 461.
Mancuso, Benjamin, Batavia, N. Y. Pipe-sleeve. No. 1,350,615; Aug. 24; v. 277; p. 656.
Mandel Corporation, The. (See Bell, R. T., and Mandel, assignors.)
Mandel, Louis. (See Bell, R. T., and Mandel.)
Mandel, Louis, Chicago, Ill. Flexible operating or tripping mechanism. No. 1,358,011; Nov. 9; v. 280; p. 216.
Mandelbaum, Henry, Brooklyn, N. Y. Compressed-air pump. No. 1,352,013; Sept. 7; v. 278; p. 59.
Mandeville, Thomas G. (See Dunhill, A., and Mandeville.)
Manelich, John, Youngsville, Pa. Fence-panel. No. 1,342,453; June 8; v. 275; p. 217.
Maness, Roy B., Gainesville, Ga. Valve. No. 1,333,866; Mar. 16; v. 272; p. 432.
Mangelsdorff, Max F., Union Hill, N. J. Drying-machine. No. 1,355,238; Oct. 12; v. 279; p. 209.
Mangini, Andrew J., Warren, Pa. Hand-tool. No. 1,331,348; Feb. 17; v. 271; p. 474.
Mangnall, Arthur R., Chester, and R. F. Irving, Clifton, Bristol, England. Earth-boring machine. No. 1,354,054; Sept. 28; v. 278; p. 599.
Mangum, Sam E. (See Franklin, I. A., and Mangum.)
Manhattan Electrical Supply Company. (See Avery, Charles E., assignor.)
Manhattan Electrical Supply Company. (See Baldwin, Allen T., assignor.)
Manhattan Electrical Supply Company. (See Schwartz, Edward, assignor.)
Manhattan-Rome Company. (See Pittoni, Louis E., assignor.)
Manhattan Rubber Mfg. Company, The. (See Repony, Daniel, assignor.)
Manheimer, Louis B., assignor, by mesne assignments, of one-third to L. B. Manheimer, one-third to F. Newbold, and one-third to F. T. Fuller, Washington, D. C. Relief-map and making same. No. 1,351,392; Aug. 31; v. 277; p. 870.
Manifold Impressions Corporation. (See Cossitt, Malcolm L., assignor.)
Manikowske, George. (See Clipfell, C. D., and Manikowske.)
Manion, William M. (See Stryhal, Joseph M., assignor.)
Manker, Charles, Des Moines, Iowa. Oil-burner. No. 1,344,421; June 22; v. 275; p. 732.
Manker, Charles C., Oklahoma, Okla., assignor of one-half to M. J. Morley, Pittsburgh, Pa. Gas-radiator. No. 1,343,634; June 15; v. 275; p. 512.
Manker, Charles C., Oklahoma, Okla., assignor of one-half to M. J. Morley, Pittsburgh, Pa. Radiator. No. 1,344,422; June 22; v. 275; p. 732.
Manker, Charles C., Pittsburgh, Pa., assignor to Morley-Manker Company, Incorporated. Vaporizer for heavy oils. No. 1,343,635; June 15; v. 275; p. 513.
Manker, Charles C., Pittsburgh, Pa., assignor to Morley-Manker Company, Incorporated, Dover, Del. Vaporizer for heavy oils. No. 1,344,423; June 22; v. 275; p. 733.
Manker, Charles C., Des Moines, Iowa, assignor of one-half to J. B. Fayant, Golconda, Nev. Internal-combustion engine. No. 1,345,614; July 6; v. 276; p. 56.
Mankey, Vernon H., Aberdeen, S. D. Tool for use in removing and replacing tires. No. 1,342,295; June 1; v. 275; p. 134.
Manlet, Peter L., St. Paul, Minn. Automatic stop for elevators. (Reissue.) No. 14,853; May 4; v. 274; p. 135.
Manley, Charles J., Kingston, Wash. Hair-cutting and neck-shaving device. No. 1,349,004; Aug. 10; v. 277; p. 221.
Manley Manufacturing Company, The. (See Manley, Robert E., assignor.)
Manley, Ralph J., Iowa City, Iowa. Lock for shift-levers. No. 1,338,945; May 4; v. 274; p. 54.
Manley, Robert E., York, Pa. Engine-stand. No. 1,336,912; Apr. 13; v. 273; p. 289.
Manley, Robert E., Hanover, Pa., assignor to The Manley Manufacturing Company, York, Pa. Collapsible hoist. No. 1,354,501; Oct. 5; v. 279; p. 11.
Manly, Ernest P., Portsmouth, Va. Lifeboat-securing device. No. 1,361,165; Dec. 7; v. 281; p. 36.
Manly, Walter D., Shackelford county, Tex. Wire-stretching tool. No. 1,352,983; Sept. 14; v. 278; p. 283.
Mann, Aaron L., Grand Rapids, Mich. Flatiron-holder. No. 1,347,123; July 20; v. 276; p. 475.
Mann, Advance R. (See Potts, T. C., and Mann.)
Mann, Charles B., *et al.* (See Shaffer, Richard M., assignor.)
Mann, Charles B. Jr. (See Shaffer, Richard M., assignor.)
Mann, George W., Pierce City, Mo. Pressure-regulator. No. 1,337,248; Apr. 20; v. 273; p. 427.
Mann, Horace F., Onamia, Minn. Power-wrench. No. 1,355,239; Oct. 12; v. 279; p. 209.
Mann, James H., Jr., Little Rock, assignor to Transit Vending Machine Company, Pine Bluff, Ark. Vending-machine. No. 1,341,921; June 1; v. 275; p. 60.
Mann, Miles H., assignor to International Money Machine Company, Reading, Pa. Money paying and registering machine. No. 1,330,888; Feb. 17; v. 271; p. 389.
Mann, William L., Georgetown, Tex. Shoe. No. 1,328,333; Jan. 20; v. 270; p. 370.
Mannhardt, Daniel W., Washington, Iowa. Valve-cap. No. 1,349,522; Aug. 10; v. 277; p. 324.
Manning, Arthur H., Colorado Springs, Colo. Automatic clutch. No. 1,336,472; Apr. 13; v. 273; p. 204.
Manning, Charles C., Corning, N. Y. Engine-timer. No. 1,355,682; Oct. 12; v. 279; p. 295.
Manning, Coleman J., Medford, Mass. Pressure-gage. No. 1,346,604; July 13; v. 276; p. 314.
Manning, Ebenezer H., Tomah, Wis. Windmill. No. 1,330,880; Feb. 10; v. 271; p. 225.
Manning, Ferdinand, Geneseo, Kans. Plow-beam. No. 1,331,446; Feb. 17; v. 271; p. 493.
Manning, Henry E., New Haven, Conn. Window-shade fixture. No. 1,344,703; June 29; v. 275; p. 853.
Manning, James, Sr., Marathon, Tex. Trap. No. 1,356,775; Oct. 26; v. 279; p. 596.
Manning, Maxwell & Moore. (See Crocker, Ernest B., assignor.)
Manning, Michael, Newark, N. J. Pocket tool-holder. No. 1,339,213; May 4; v. 274; p. 104.
Manning, Roland B., and L. R. Moore, Dallas, Tex. Steam-generator. No. 1,350,554; Aug. 24; v. 277; p. 643.
Manning, Timothy C., assignor of one-half to S. P. Mason, Omaha, Nebr. Grain-door remover. No. 1,332,404; Mar. 2; v. 272; p. 44.
Manning, William E., Vancouver, British Columbia, Canada. Visible alarm-signal. No. 1,331,818; Feb. 24; v. 271; p. 584.
Manning, William J., Wolverhampton, England. Belt-pulley for power transmission. No. 1,329,620; Feb. 3; v. 271; p. 51.
Mannon, Homer, H. M. Brown, and R. G. Perkins, Huntington, W. Va. Indicating device. No. 1,328,007; Jan. 13; v. 270; p. 272.

Digitized by Google

Manny, Fred L., assignor to Baker-Vawter Company, Benton Harbor, Mich. Loose-leaf binder. No. 1,327,624; Jan. 13; v. 270; p. 200.

Manny, Fred L., assignor to Baker-Vawter Company, Benton Harbor, Mich. Locking mechanism for post-binders. No. 1,331,516; Feb. 24; v. 271; p. 526.

Manny, Fred L., assignor to Baker-Vawter Company, Benton Harbor, Mich. Binder. No. 1,346,328; July 13; v. 276; p. 260.

Manny, Fred L., assignor to Baker-Vawter Company, Benton Harbor, Mich. Posting-stand. No. 1,347,645; July 27; v. 276; p. 634.

Manny, Fred L., assignor to Baker-Vawter Company, Benton Harbor, Mich. Binder. No. 1,354,205; Sept. 28; v. 278; p. 630.

Manon, Clyde L., Fitzgerald, Ga. Combination-lock. No. 1,351,484; Aug. 31; v. 277; p. 887.

Manrodt, Henry, Brooklyn, N. Y. Internal-combustion engine. No. 1,332,350; Mar. 2; v. 272; p. 33.

Mansfield, Charles B., Crescent City, Calif. Artificial bait. No. 1,351,669; Aug. 31; v. 277; p. 924.

Mansfield, Clarence H., El Paso, Tex. Film-winding attachment. No. 1,327,245; Jan. 6; v. 270; p. 69.

Mansfield Lock Washer Company, The. (See Kessel, Frank, assignor.)

Mansfield, Warren M., Davenport, Iowa. Vehicle-wheel. No. 1,327,348; Jan. 6; v. 270; p. 86.

Manson, Marsden, Berkeley, Calif. Demonstration-globe. No. 1,343,181; June 8; v. 275; p. 861.

Manson, Ray H., assignor to The Garford Manufacturing Company, Elyria, Ohio. Automobile or motorcycle horn. No. 1,328,093; Jan. 13; v. 270; p. 288.

Manson, Ray H., Rochester, N. Y., assignor to The General Phonograph Manufacturing Company, Elyria, Ohio. Means for protecting governors. No. 1,346,228; July 13; v. 276; p. 289.

Mansour, Tewfie, Providence, R. I. Steering-gear for automobiles. No. 1,334,706; Mar. 23; v. 272; p. 635.

Manternach, John C., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Vehicle-wheel with demountable rim. No. 1,336,531; Apr. 13; v. 273; p. 215.

Manternach, John C., and C. W. Gressle, assignors, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Wheel with demountable rim. No. 1,351,183; Aug. 31; v. 277; p. 827.

Manthey, Otto J., Toledo, assignor to Ralph H. Culley, Rochester, Ohio. Permutation-lock for steering-wheels. No. 1,347,516; July 27; v. 276; p. 609.

Mantle Lamp Company of America. (See Davis, C. W., and Sunderlin, assignors.)

Mantle Lamp Company of America, The. (See Spangler, Frederick W., assignor.)

Manufacturers Can Co., The. (See Milligan, Stephen W., assignor.)

Manufacturers Equipment Company, The. (See Justice, Ithamar M., assignor.)

Manufacturers Iron & Steel Company. (See Whitaker, Richard, Jr., assignor.)

Manufacturers Machine Products Co. (See Schoenborn, Gustav C., assignor.)

Manville, E. J., Machine Company, The. (See Julian, David, assignor.)

Manyak, Andrew and M., Nanty Glo, Pa. Adjustable screen. No. 1,341,188; May 25; v. 274; p. 683.

Manyak, Mary. (See Manyak, Andrew and M.)

Many, Julius, New York, N. Y. Tenometer. No. 1,331,777; Feb. 24; v. 271; p. 575.

Manz, John J. (See Cook, Harry A., assignor.)

Manzari, Joseph, Corona, N. Y. Bootblack-chair. No. 1,333,867; Mar. 16; v. 272; p. 432.

Manzie, Angelo W., Newport News, Va. Toy. No. 1,340,786; May 18; v. 274; p. 534.

Mao, Thomson, Swissvale, Pa. Cash-account register. No. 1,335,447; Mar. 30; v. 272; p. 836.

Mapel, Lewis A., assignor to W. H. Bixby, St. Louis, Mo. Valve mechanism. No. 1,333,267; Mar. 9; v. 272; p. 258.

Mapel, Lewis A., St. Louis, Mo. Safety-valve. No. 1,356,457; Oct. 19; v. 279; p. 487.

Mapel, Lewis A., St. Louis, Mo. Safety-valve. No. 1,361,884; Dec. 14; v. 281; p. 227.

Mapelsden, Harold H., Schenectady, N. Y., assignor to General Electric Company. Recording mechanism. No. 1,347,787; July 27; v. 276; p. 664.

Mapes, Gailen F., Minneapolis, Minn. Typewriting-machine. No. 1,346,605; July 13; v. 276; p. 314.

Mapes, James L., Jersey Shore, Pa. Differential driving mechanism for motor-vehicles. No. 1,360,428; Nov. 30; v. 280; p. 850.

Mapes, Stephen S., *et al.*, executors. (See Blickensderfer, George C.)

Maple, Wilbert, Blackwell, Okla. Water-filter. No. 1,362,125; Dec. 14; v. 281; p. 276.

Maples, Lawrence, Chicago, Ill. Washing-machine. No. 1,350,823; Aug. 24; v. 277; p. 696.

Mapson, Robert L., assignor of one-third to L. Sperbeck and one-third to E. I. Wheeler, Los Angeles, Calif. Combined spare-tire support and rim-removing apparatus. No. 1,350,372; Aug. 24; v. 277; p. 607.

Maqua Company, The. (See Benham, Charles E., assignor.)

Maranville, Harvey F., Akron, Ohio. Ventilator. No. 1,328,094; Jan. 13; v. 270; p. 288.

Maranville, Harvey F., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Tire construction. No. 1,329,463; Feb. 3; v. 271; p. 23.

Maranville, Harvey F., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Rubber-mold. No. 1,350,105; Aug. 17; v. 277; p. 509.

Marathon Electric & Manufacturing Co. (See Kimble, Austin, assignor.)

Marberg, Carl G., Chicago, Ill. Roof-gutter or eaves-trough. No. 1,343,461; June 15; v. 275; p. 478.

Marble and Shattuck Chair Company, The. (See Onsrud, Oscar, assignor.)

Marble, Webster L., Gladstone, Mich. Detachable and interchangeable butt-piece for firearms. No. 1,331,074; Feb. 17; v. 271; p. 425.

Marble, Webster L., Gladstone, Mich. Detachable and interchangeable butt-piece for firearms. No. 1,331,075; Feb. 17; v. 271; p. 425.

Marble, Webster L., Gladstone, Mich. Recoil-pad for firearms. No. 1,349,779; Aug. 17; v. 277; p. 447.

Marble, William F., Georgetown, Mass. Stacking attachment for strip-feeding machines. No. 1,331,273; Feb. 17; v. 271; p. 460.

Marburger, Henry L., Baltimore, and L. H. Berg, Baltimore county, Md. Nut-lock. No. 1,328,443; Jan. 20; v. 270; p. 391.

Marceron, Raymond V., assignor to F. H. Newham, Jr., Washington, D. C. Container and closure therefor. No. 1,351,920; Sept. 7; v. 278; p. 42.

March, Charles M., Portland, Me., and C. L. Tidd, Gardner, Mass. Camera. No. 1,341,718; June 1; v. 275; p. 20.

Marchant Calculating Machine Company. (See Dennis Adolphus S., assignor.)

Marchcione, Lewis, assignor to The Self Feeding Dauber Co., Inc., Boston, Mass. Blacking-dauber. No. 1,351,723; Aug. 31; v. 277; p. 934.

Marchesseault, Joseph R., assignor to Worcester Pressed Steel Company, Worcester, Mass. Pressed-steel pulley. No. 1,329,790; Feb. 3; v. 271; p. 83.

Marchius, Christ, Portland, Oreg. Gill-net retriever. No. 1,353,604; Sept. 21; v. 278; p. 465.

Marcil, Henri E., Montreal, Quebec, Canada. Bottle. No. 1,337,979; Apr. 20; v. 273; p. 567.

Marcq, Ludovic, assignor to C. Howard Hunt Pen Company, Camden, N. J. Manufacture of pens. No. 1,356,543; Oct. 26; v. 279; p. 551.

Marcroft, George, Providence, R. I., assignor to Universal Winding Company, Boston, Mass. Cone-winding machine. No. 1,348,291; Aug. 3; v. 277; p. 32.

Marcus, Jacob, and J. F. Bergen, Brooklyn, N. Y. Trousers-waistband. No. 1,351,257; Aug. 31; v. 277; p. 842.

Marcus, Samuel, Brooklyn, assignor to F. & M. Novelty Co. Inc., New York, N. Y. Artificial eyes for dolls, display-figures, and the like. No. 1,331,272; Feb. 17; v. 271; p. 460.

Marcuse, Moses M., New York, N. Y. Reversible pouring-spout for cans. No. 1,342,639; June 8; v. 275; p. 252.

Marcy, Frank E., Salt Lake City, Utah. Roller-mill. No. 1,361,601; Dec. 7; v. 281; p. 126.

Marcy, Frank E., Salt Lake City, Utah. Ball-mill. No. 1,362,334; Dec. 14; v. 281; p. 317.

Mardaus, Albert H., Minneapolis, Minn. Door stop and holder. No. 1,347,048; July 20; v. 276; p. 461.

Mardick, John R., New York, N. Y. Match-head composition. No. 1,329,587; Feb. 3; v. 271; p. 37.

Mardick, John R., New York, assignor to Electro Metallurgical Company, Niagara Falls, N. Y. Explosive. No. 1,335,788; Apr. 6; v. 273; p. 16.

Mardick, John R., New York, assignor to Electro Metallurgical Company, Niagara Falls, N. Y. Explosive and preparing same. No. 1,335,790; Apr. 6; v. 273; p. 16.

Mardick, John R., New York, and F. M. Becket, assignors to Electro Metallurgical Company, Niagara Falls, N. Y. Explosive. No. 1,335,789; Apr. 6; v. 273; p. 16.

Mardis, Paul L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,336,574; Apr. 13; v. 273; p. 224.

Mardis, Paul L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. No. 1,343,218; June 15; v. 275; p. 432.

Mardis, Paul L., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,343,219; June 15; v. 275; p. 432.

Mardis, Paul L., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,355,490; Oct. 12; v. 279; p. 259.

Mardis, Paul L., assignor to Westinghouse Electric & Manufacturing Company, Altoona, Pa. Control apparatus. No. 1,358,769; Nov. 16; v. 280; p. 412.

Mardon, Frederick S., New York, N. Y. Antiseptic and disinfectant. No. 1,358,227; Nov. 9; v. 280; p. 258.

Marechal, Pierre M. G. (See Hervieu, G., and Marechal.)

Marek, Frank, Los Angeles, Calif. Cornucopia-dispenser. No. 1,339,067; May 4; v. 274; p. 78.

Marek, George J., Bridgeport, Conn. Auto signaling device. No. 1,361,392; Dec. 7; v. 281; p. 82.

Digitized by Google

Alphabetical list of patentees—Continued.

Marette, Jacques, Vincennes, assignor to Pathe Cinema Anciens Etablissements Pathe freres, Vincennes, Seine, and T. Robatel, J. Buffaud & Cie., Lyon, Rhone, France. Friction-drive mechanism. No. 1,363,338; Dec. 28; v. 281; p. 604.

Margeson, Gertrude A. (See Sullivan, Michael F., assignor.)

Margetts, Irven R., and W. Fagergren, assignors of one-third to A. J. Miller, one-third to D. Knox, and one-third to W. Fagergren, Salt Lake City, Utah. Flotation-machine. No. 1,361,342; Dec. 7; v. 281; p. 72.

Margetts, William H., Toronto, Ontario, Canada. Shading-machine. No. 1,348,653; Aug. 3; v. 277; p. 102.

Margolfo, Polidoro, Meriden, Conn. Grating device. No. 1,359,410; Nov. 16; v. 280; p. 537.

Margolis, David S., *et al.* (See Corbi, Joseph L., assignor.)

Margotta, Horace, Scranton, Pa. Railway signal system. No. 1,337,935; Apr. 20; v. 273; p. 558.

Marhenke, August H., New York, N. Y. Siphon-starter. No. 1,336,310; Apr. 6; v. 273; p. 114.

Marien, Charles A. (See Franz, John W., assignor.)

Marien, Charles A., St. Louis, Mo. Vehicle-wheel. No. 1,331,575; Feb. 24; v. 271; p. 537.

Marll, Harry A., Minneapolis, Minn. Garment. No. 1,327,625; Jan. 13; v. 270; p. 200.

Mariner, Claude. (See Vezey, C. D., and Mariner.)

Mariner, Joseph A., Chicago, Ill. Collar-holder. No. 1,352,139; Sept. 7; v. 278; p. 82.

Mariner, Joseph A., Chicago, Ill. Collar and tie holder. No. 1,353,969; Sept. 28; v. 278; p. 582.

Marino, Algeri, Venice, Italy. Spintherometer for radio-telegraphic plants. No. 1,328,288; Jan. 20; v. 270; p. 362.

Marinsky, Davis, New York, N. Y. Shoe-sole protector. No. 1,343,329; June 15; v. 275; p. 452.

Marinsky, Louis, assignor of one-half to J. E. Baer, New York, N. Y. Jack. No. 1,363,668; Dec. 28; v. 281; p. 667.

Marion Foundry Corporation. (See Close, Leonard L., assignor.)

Marion, Frank, assignor to Marion Rotary Motors Company, Inc., Hardwick, Vt. Rotary pump. No. 1,341,343; Dec. 7; v. 281; p. 73.

Marion Rotary Motors Company. (See Marion, Frank, assignor.)

Marjanko, Ferdinand. (See Gruschka and Marjanko.)

Mark, George L., Westminster, Md., assignor to The Gandy Belting Company of Baltimore City, Baltimore, Md. Sewing-machine. No. 1,358,228; Nov. 9; v. 280; p. 258.

Mark, James M., Oregon City, Oreg. Molding apparatus. No. 1,329,621; Feb. 3; v. 271; p. 52.

Markel, Anton J., Fort Clark, N. D. Gate-hinge. No. 1,362,634; Dec. 21; v. 281; p. 426.

Markel, Edwin M. (See Davis, Noah W., assignor.)

Markem Machine Company. (See Robbins, Charles F., assignor.)

Marker, Stephen A., Newark, N. J. Suspensory. No. 1,347,864; July 27; v. 276; p. 679.

Markert, John P., Brooklyn, N. Y. Container structure. No. 1,343,002; June 8; v. 275; p. 326.

Markert, John P., New York, N. Y. Carton. No. 1,352,759; Sept. 14; v. 278; p. 239.

Markert, Theodore J., Stockton, Calif. Direction-signal for motor-vehicles. No. 1,361,270; Dec. 7; v. 281; p. 57.

Market Garden Tractor Co. (See Ford, Paul B., assignor.)

Markham, Charles M., Milwaukee, Wis. Adjustable jack or shore. No. 1,349,576; Aug. 17; v. 277; p. 407.

Markham, Elnathan F., Kenosha, Wis. Clothesline-supporter. No. 1,340,070; May 11; v. 274; p. 341.

Markham-Mills, Herbert. Wentworthville, New South Wales, Australia. Inclinometer. No. 1,345,098; June 29; v. 275; p. 928.

Markham, James W., Armstrong, Ind. Steering-wheel lock. No. 1,328,882; Jan. 27; v. 270; p. 503.

Markham, Murtyn G., Alma, Mich. Bookrack. No. 1,363,138; Dec. 21; v. 281; p. 525.

Markham, Sidney L., Jamestown, N. Y. Angular coil-spring. No. 1,349,079; Aug. 10; v. 277; p. 236.

Markin, Sidney J. (See Wade, J., Markin, and Du Prey.)

Markkula, Matt, Fort Bragg, Calif. Stake for cars. No. 1,346,836; July 20; v. 276; p. 418.

Markle, Gertrude N. (See Fujita and Markle.)

Markle, Holly A., St. Joseph, Mo. Automatic controller for camera-shutters. No. 1,334,501; Mar. 23; v. 272; p. 597.

Markmann, Daniel H., and M. A. Demmler, St. Louis, Mo. Velocipede-horse. No. 1,340,282; May 18; v. 274; p. 439.

Marko, Paul M., Brooklyn, N. Y. Storage battery. No. 1,329,917; Feb. 3; v. 271; p. 107.

Markoe, Arthur, *et al.* (See Flagstad, Cornell, assignor.)

Markoff, Samuel A., Providence, R. I. Mailing device. No. 1,346,502; July 13; v. 276; p. 294.

Markovich, Mike, Mountain Springs, Pa. Rail-tie. No. 1,329,538; Feb. 3; v. 271; p. 37.

Marks, Albert, New Britain, Conn. Numbering-stamp and the like. No. 1,335,746; Apr. 6; v. 273; p. 8.

Marks, Charles A., Wakarusa, Ind. Starting device for internal-combustion engines. No. 1,354,985; Oct. 5; v. 279; p. 107.

Marks, David. (See Taylor, D. R. N., and Marks.)

Marks, Horace S., Melbourne, Victoria, Australia. Shoulder-strap. No. 1,330,789; Feb. 10; v. 271; p. 292.

Marks, Isidore, assignor to Keystone Manufacturing Company, Boston, Mass. Motion-picture machine. No. 1,345,793; July 6; v. 276; p. 91.

Marks, John A., Batavia, Wis. Fishing-float. No. 1,361,602; Dec. 7; v. 281; p. 126.

Marks, Moses J., Warley, England. Device for turning over sheets of music. No. 1,329,622; Feb. 3; v. 271; p. 52.

Marks, Myer M., Chicago, Ill. Lighting-fixture. No. 1,334,622; Mar. 23; v. 272; p. 620.

Marks, Myer M., Chicago, Ill. Lighting-fixture. No. 1,334,623; Mar. 23; v. 272; p. 620.

Marks, Paul J., assignor to Eastman Kodak Company, Rochester, N. Y. Multiple-aperture shutter. No. 1,329,424; Feb. 3; v. 271; p. 15.

Marks, Samuel L., New York, N. Y. Hotel and traveler's directory-cabinet. No. 1,357,464; Nov. 2; v. 280; p. 50.

Marks, Willard C., assignor to Spang, Chalfant & Co., Incorporated, Etna, Pa. Die-head. No. 1,352,823; Sept. 14; v. 278; p. 252.

Markstedt, Carl M. (See Blum, Elias, assignor.)

Markwell, Andrew E., assignor of one-half to S. C. Evans, Fort Worth, Tex. Matrix molding device. No. 1,328,050; Jan. 13; v. 270; p. 280.

Markwick, Frederick, Detroit, Mich. Sack-fastener. No. 1,351,958; Sept. 7; v. 278; p. 49.

Markwick, John, Detroit, Mich. Food-safe for windows. No. 1,348,027; July 27; v. 276; p. 711.

Marley, Almeda, *et al.* (See Burch, Willie, assignee.)

Marley, Jesse A., North Chicago, Ill. Gas-line lock for automobiles. No. 1,359,411; Nov. 16; v. 280; p. 537.

Marlin-Rockwell Corporation. (See Darton, Willard B., assignor.)

Marlin-Rockwell Corporation. (See Neal, Elmer E., assignor.)

Marlin-Rockwell Corporation, The. (See Rockwell, Hugh M., assignor.)

Marlowe, Thomas A. (See Moltzner, Karl G., assignor.)

Marmon Chicago Company, The. (See Olson, William O., assignor.)

Marolf, William H., Iron River, Mich. Lunch-cabinet for automobiles. No. 1,334,107; Mar. 16; v. 272; p. 478.

Maron, August, Whittier, Calif. Gopher-trap. No. 1,344,807; June 29; v. 275; p. 873.

Maros, Peter, Waterbury, Conn. Trunk-lid holder. No. 1,334,546; Mar. 23; v. 272; p. 606.

Marqua, Edward C., Kansas City, Mo. Concrete-form support and bracket. No. 1,346,131; July 13; v. 276; p. 221.

Marquardt, Emil, Lemon Grove, Calif. Cultivator. No. 1,341,064; May 25; v. 274; p. 659.

Marquardt, Evan G., Toledo, Ohio. Combination of electric and gas stove. No. 1,358,966; Nov. 16; v. 280; p. 451.

Marquardt, Frank C., Brooklyn, assignor to American Bank Note Company, New York, N. Y. Registering mechanism for form or plate cylinders of multicolor-printing machines. No. 1,328,842; Jan. 27; v. 270; p. 495.

Marquette, Melvon A., Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Reinforcement for tire-beads. No. 1,349,898; Aug. 17; v. 277; p. 469.

Marr, Alexander W., Canton, Ohio. Hydraulic jack. No. 1,344,919; June 29; v. 275; p. 894.

Marr, Alexander W., Canton, Ohio. Quick-action jack. No. 1,350,663; Aug. 24; v. 277; p. 665.

Marr, Alexander W., Canton, Ohio. Antifriction-jack. No. 1,360,557; Nov. 30; v. 280; p. 876.

Marr, John W., Long Beach, Calif. Apparatus for smoking fish. No. 1,345,095; June 29; v. 275; p. 927.

Marr, John W., Newport Beach, Calif. Auto-theft signal. No. 1,350,032; Aug. 17; v. 277; p. 495.

Marr, Robert A., Norfolk, Va. Producing textile fibers. No. 1,362,723; Dec. 21; v. 281; p. 444.

Marr, Walter L., Signal Mountain, Tenn. Carbureter. No. 1,361,529; Dec. 7; v. 281; p. 111.

Marr, William G., Bakersfield, Calif. Flag-support. No. 1,359,818; Nov. 23; v. 280; p. 662.

Marr, Winfield S., Enid, Okla. Identification attachment for automobiles. No. 1,343,837; June 15; v. 275; p. 554.

Marsden, George E. W., *et al.* (See Marsden, George E. W., assignor.)

Marsden, George E. W., assignor to G. B. Slater and G. E. W. Marsden, Beloit, Wis. Feed-mill. No. 1,362,724; Dec. 21; v. 281; p. 444.

Marsden, George E. W., assignor to G. B. Slater and G. E. W. Marsden, Beloit, Wis. Sifter for feed-mills. No. 1,362,725; Dec. 21; v. 281; p. 444.

Marsden, George H., New York, N. Y. Toy. No. 1,344,548; June 22; v. 275; p. 758.

Marsden, Mark W., Philadelphia, Pa. Utilizing Spanish moss. No. 1,327,873; Jan. 13; v. 270; p. 247.

Digitized by Google

Alphabetical list of patentees—Continued.

Marsek, Steven, New York, N. Y. Airship. No. 1,331,517; Feb. 24; v. 271; p. 527.
Marsh, Chester A., Bay City, Mich. Hydroaero-machine. No. 1,336,473; Apr. 13; v. 273; p. 204.
Marsh, Clifford M., assignor to Marsh-Walters Company, Glens Falls, N. Y. Tractor. No. 1,330,084; Feb. 10; v. 271; p. 170.
Marsh, Edward, Washington, D. C. Toy bucket. No. 1,352,463; Sept. 14; v. 278; p. 179.
Marsh, Elmer E. (See Marsh, Sargent P. and E. E.)
Marsh, Elsie D., Watervliet, N. Y. Child's waterproof diaper. No. 1,339,602; May 11; v. 274; p. 253.
Marsh, Erastus P., Chicago, Ill. Atomizer. No. 1,356,166; Oct. 19; v. 279; p. 431.
Marsh, Grant C., assignor of one-half to W. F. Koken, St. Louis, Mo. Cooling means for engines and other devices. No. 1,330,207; Feb. 10; v. 271; p. 193.
Marsh, Howard E. (See Starr, E. B., and Marsh.)
Marsh, Isom L., assignor of one-half to Allan A. Anderson, Los Angeles, Calif. Pipe-covering. No. 1,355,083; Oct. 5; v. 279; p. 126.
Marsh, James H., New York, N. Y. Fountain-pen. No. 1,363,339; Dec. 28; v. 281; p. 604.
Marsh, John, Chicago, Ill. Piston-ring. No. 1,330,881; Feb. 10; v. 271; p. 225.
Marsh, Leon E., Los Angeles, Calif. Baby-nipple protector. No. 1,336,366; Apr. 6; v. 273; p. 125.
Marsh, Richard B., Philadelphia, Pa. Reversible car-seat. No. 1,360,966; Nov. 30; v. 280; p. 955.
Marsh, Sargent P. and E. E., Cincinnati, Ohio. Detection-signal. No. 1,329,963; Jan. 27; v. 270; p. 585.
Marsh-Walters Company. (See Marsh, Clifford M., assignor.)
Marsh, Wilbur W. (See Hackett, Charles H., assignor.)
Marsh, William J., Niagara Falls, assignor to Hooker Electrochemical Company, New York, N. Y. Treating copper-bearing alloys. No. 1,353,773; Sept. 21; v. 278; p. 499.
Marshall, Alexander, Corona, N. Y. Coupling for pipes and conduits. No. 1,330,327; Feb. 10; v. 271; p. 215.
Marshall, Charles H., assignor to Marshall Manufacturing Company, Omaha, Nebr. Cherry-pitting machine. No. 1,331,274; Feb. 17; v. 271; p. 460.
Marshall, Charles J., assignor to P. B. Yates Machine Company, Beloit, Wis. Stock-feeder for woodworking-machines. No. 1,355,491; Oct. 12; v. 279; p. 259.
Marshall, Charles M., trustee. (See Kries, Lawrence F., assignor.)
Marshall, Chilton M., assignor of one-half to R. E. Powell, Jefferson Davis parish, La. Transmission mechanism. No. 1,351,393; Aug. 31; v. 277; p. 870.
Marshall Dobbins & Co. (See Butcher, James M., assignor.)
Marshall, Earnest. (See Palmer, Benjamin C., assignor.)
Marshall, Edward L., Suffolk, Va. Separating apparatus. No. 1,356,384; Oct. 19; v. 279; p. 373.
Martel, Eusebe A., and L. J. Mercier, St. Isidore d'Auckland, Quebec, Canada. Railway-crossing gate. No. 1,355,492; Oct. 12; v. 279; p. 259.
Marshall Field & Company. (See Wakefield, Edwin C., assignor.)
Marshall, George M., Lake Francis, Manitoba, Canada. Submarine-detector. No. 1,353,410; Sept. 21; v. 278; p. 426.
Marshall, Harry B., Long Beach, Calif. Surf-mattress. No. 1,332,673; Mar. 2; v. 272; p. 95.
Marshall, Henry H., Jr., Garden City, N. Y. Power-transmission device for automobiles. No. 1,349,428; Aug. 10; v. 277; p. 305.
Marshall, Homer F., North Adams, Mass. Picker-stick for looms. No. 1,352,297; Sept. 7; v. 278; p. 112.
Marshall, James F., Auburn, assignor of one-half to Dunn & McCarthy, Binghamton, N. Y. Shoe and making same. No. 1,336,784; Apr. 13; v. 278; p. 265.
Marshall, James P., Indianapolis, Ind. Repair-jack stand. No. 1,350,555; Aug. 24; v. 277; p. 644.
Marshall, John, Swarthmore, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Making Hexanitrodiphenylamin. No. 1,326,947; Jan. 6; v. 270; p. 13.
Marshall, John C. (See Zook, O. J., and Marshall.)
Marshall, John F., Ashland, Wis. Rod-joint. No. 1,347,111; July 20; v. 276; p. 473.
Marshall, John W., Butte, Mont. Pulley-attachment device. No. 1,337,249; Apr. 20; v. 273; p. 427.
Marshall, Lewis C., Walpole, assignor to Pressure Proof Piston Ring Company, Boston, Mass. Piston-packing. No. 1,360,967; Nov. 30; v. 280; p. 956.
Marshall, Lewis C., Walpole, assignor to Pressure Proof Piston Ring Company, Boston, Mass. Piston-ring. No. 1,361,393; Dec. 7; v. 281; p. 82.
Marshall Manufacturing Company. (See Marshall, Charles H., assignor.)
Marshall, Raymond, Frankfort, Ind. Stovepipe anchor and lock. No. 1,333,625; Mar. 16; v. 272; p. 387.
Marshall, Stanley G., Hebbronville, Tex. Lens-holder. No. 1,337,086; Apr. 13; v. 273; p. 323.
Marshall, Sylvester, Athens, Ohio. Grading or separating machine. No. 1,341,571; May 25; v. 274; p. 757.
Marshall, Ward E., near Brookville, Ohio. Cultivator. No. 1,337,407; Apr. 20; v. 273; p. 457.
Marshick, Oliver J. (See Crosby, E. L., and Marshick.)
Marshick, Oliver J., Detroit, Mich. Adapter for electrode-holders. No. 1,348,434; Aug. 3; v. 277; p. 60.
Marsico, Gerard R., Brooklyn, N. Y. Clutch. No. 1,341,993; June 1; v. 275; p. 74.
Marston, Gordon S., Ravenscourt Park, England. Drip-preventer and the like. No. 1,351,258; Aug. 31; v. 277; p. 842.
Marston, Henry H. (See Kenerson, Stanley M., assignor.)
Marszalek, Ludwik, Passaic, N. J. Railway-switch. No. 1,350,373; Aug. 24; v. 277; p. 607.
Martel, Fred J. (See Wenner, F. J., and Martel.)
Martel, Fred J., Hanover, N. H., C. A. Briggs, Joplin, Mo., D. L. Macaulay, Montreal, Quebec, Canada, W. R. Wright, Swarthmore, Pa., and F. Wenner, Azadia Park, D. C., assignors to N. D. Baker, Secretary of War, trustee. Machine-gun-control system. No. 1,349,140; Aug. 10; v. 277; p. 248.
Martel, Leroy J., Central Falls, R. I. Engine-muffler. No. 1,354,884; Oct. 5; v. 279; p. 77.
Martenay, Alphonse J. (See Schwarz, E. R., and Martenay.)
Martet, Eugène C., assignor to La Precision Mechanique, Paris, France. Wedge-operated locking arrangement for sliding members. No. 1,357,576; Nov. 2; v. 280; p. 70.
Martin, Albert, W., Columbus, Ohio. Gage. No. 1,351,528; Aug. 31; v. 277; p. 896.
Martin, Albert W., Indianapolis, and J. N. Martin, Beech Grove, Ind. Grease-cup. No. 1,337,717; Apr. 20; v. 273; p. 516.
Martin, Alfred V. P., Brooklyn, N. Y. Hair-curler. No. 1,354,117; Sept. 28; v. 278; p. 612.
Martin, Allen C., Ralston, Wash. Extension-wrench. No. 1,335,590; Mar. 30; v. 272; p. 862.
Martin, Alton R., Buffalo, N. Y. Headlight. No. 1,347,394; July 20; v. 276; p. 528.
Martin, Alvin V. (See Ten Brink, John H., and Martin.)
Martin, Anna, Cincinnati, Ohio. School-desk. No. 1,328,444; Jan. 20; v. 270; p. 391.
Martin, Asa L. (See Martin, Clark W., assignor.)
Martin, Benjamin W., Zanesville, and H. Sams, Akron, Ohio. Machine for placing washers in heel-molds. No. 1,336,319; Apr. 6; v. 273; p. 116.
Martin, Cecil R., assignor to Frantz Manufacturing Co., Sterling, Ill. Door-lock. No. 1,348,028; July 27; v. 276; p. 712.
Martin, Charles A., Congress Heights, D. C. Cultivator-tooth. No. 1,345,209; June 29; v. 275; p. 949.
Martin, Charles C., and J. H. Cotton, assignor to Kilborne and Jacobs Manufacturing Company, Columbus, Ohio. Automobile-vehicle. No. 1,350,462; Aug. 24; v. 277; p. 626.
Martin, Charles W., Brooklyn, N. Y. Umbrella. No. 1,328,175; Jan. 13; v. 270; p. 304.
Martin, Clara A., Pasadena, Calif. Button-buckle for garments. No. 1,354,260; Sept. 28; v. 278; p. 642.
Martin, Clark W., assignor of one-half to A. L. Martin, North Union township, Fayette county, Pa. Gee-strap. No. 1,352,672; Sept. 14; v. 278; p. 221.
Martin, Earl L. (See Michael, J. W., and Martin.)
Martin, Edgar W., *et al.*, trustees. (See Goodwin, Charles, assignor.)
Martin, Edouard, assignor to Compagnie Belge Du Bi-Metal, Societe Anonyme, Brussels, Belgium. Manufacture of plates and large sheets of composite or compound metal. No. 1,332,674; Mar. 2; v. 272; p. 95.
Martin, Edouard, assignor to Compagnie Belge Du Bi-Metal, Société Anonyme, Brussels, Belgium. Manufacture of wires and tubes of two metals. No. 1,341,812; June 1; v. 275; p. 89.
Martin, Elizabeth M., Sterling Ill. Combination-boiler. No. 1,352,824; Sept. 14; v. 278; p. 252.
Martin, Emanuel A., New York, N. Y. Electric air-heater. No. 1,332,052; Feb. 24; v. 271; p. 628.
Martin, Ernest L., Houston, Tex. Landing device for aeroplanes. No. 1,352,077; Sept. 7; v. 278; p. 71.
Martin, Eugène, Cannes, France. Electric soldering apparatus. No. 1,354,986; Oct. 5; v. 279; p. 107.
Martin, Eugene T., Chicago, Ill. Hanger for concrete ceilings. No. 1,351,112; Aug. 31; v. 277; p. 813.
Martin, Frank, Worcester, Mass., assignor to W. D. Ramsburgh, New York, N. Y. Paper-cup holder. No. 1,334,664; Mar. 23; v. 272; p. 628.
Martin, Frank, Chandler, Okla. Auto-tire changer. No. 1,354,118; Sept. 28; v. 278; p. 613.
Martin, Frederick A. (See Irwin, G. H., and Martin.)
Martin, Friedrick. (See Hinz, Leo, assignor.)
Martin, Geoffrey. (See Martin, Joseph and G.)
Martin, Geoffrey, Manchester, England. Apparatus for hydrogenating oils. No. 1,333,328; Mar. 9; v. 272; p. 270.
Martin, George C., Los Angeles, Calif. Concrete-pipe-making machine. No. 1,344,590; June 22; v. 275; p. 766.
Martin, George G., East St. Louis, Ill. Automobile-tire. No. 1,342,339; June 1; v. 275; p. 141.
Martin, George W., Philadelphia, N. Y. Chair. No. 1,339,068; May 4; v. 274; p. 78.
Martin, George W., Fort Worth, Tex. Screen pickup-roller. No. 1,346,550; July 13; v. 276; p. 303.

Digitized by Google

Martin, George W., Philadelphia, N. Y. Combination child's chair. No. 1,347,702; July 27; v. 276; p. 646.
Martin, Haakon A., assignor to The National Cash Register Company, Dayton, Ohio. Filing-cabinet. No. 1,329,539; Feb. 3; v. 271; p. 37.
Martin, Haakon A., assignor to The National Cash Register Company, Dayton, Ohio. Coin-registering mechanism. No. 1,329,540; Feb. 3; v. 271; p. 37.
Martin, Haakon A., assignor to The National Cash Register Company, Dayton, Ohio. Credit-account register. No. 1,331,021; Feb. 17; v. 271; p. 415.
Martin, Haakon A., assignor to The National Cash Register Company, Dayton, Ohio. Ticket printing and issuing machine. No. 1,338,288; Apr. 27; v. 273; p. 684.
Martin, Haakon A., assignor to The National Cash Register Company, Dayton, Ohio. Credit-account register. No. 1,341,922; June 1; v. 275; p. 61.
Martin, Haakon A., assignor to The National Cash Register Company, Dayton, Ohio. Registering-machine. No. 1,348,573; Aug. 3; v. 277; p. 86.
Martin, Haakon A., assignor to The National Cash Register Company, Dayton, Ohio. Credit-account register. No. 1,355,405; Oct. 12; v. 279; p. 242.
Martin, Harry E., Auburn, Me., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. No. 1,334,159; Mar. 16; v. 272; p. 487.
Martin, Harry F., Utica, Kans. Carbon-removing tool. No. 1,344,549; June 22; v. 275; p. 758.
Martin, Harry F., Utica, Kans. Valve-face-cutting tool. No. 1,344,550; June 22; v. 275; p. 758.
Martin, Jacob, *et al.* (See Scholes, Edmond P., assignor.)
Martin, Jacob N. (See Martin, Albert W. and J. N.)
Martin, James B., and J. V., New York, N. Y. Plumber's furnace. No. 1,356,960; Oct. 26; v. 279; p. 633.
Martin, James H., Los Angeles, Calif. Wave-motor. No. 1,332,509; Mar. 2; v. 272; p. 64.
Martin, James P., Lancaster, Pa., assignor to R. C. Penfield, Chicago, Ill. Pipe-rack drier-car. No. 1,339,119; May 4; v. 274; p. 88.
Martin, James V., Detroit, Mich. Aerodynamic stabilizer. No. 1,334,707; Mar. 23; v. 272; p. 636.
Martin, Jesse A., *et al.* (See Phillips, Lucius A., assignor.)
Martin, Jesse C., Jr., San Francisco, Calif. Refractory-brick construction for locomotive-boiler furnaces. No. 1,333,868; Mar. 16; v. 272; p. 482.
Martin, John M., Dallas, Tex. Roofing-tile. No. 1,339,033; May 4; v. 274; p. 71.
Martin, John V. (See Martin, James B., and J. V.)
Martin, Jose R., Brooklyn, N. Y. Boring-bar. No. 1,336,311; Apr. 6; v. 273; p. 114.
Martin, Joseph and G., Toronto, Ontario, Canada. Gas-tap-locking device. No. 1,344,704; June 29; v. 275; p. 853.
Martin, Lawrence C., *et al.*, trustees. (See Goodwin, Charles, assignor.)
Martin, Leslie, Falconer, and E. L. Underwood, Jamestown, N. Y., assignors to American Manufacturing Concern. Thermometer. No. 1,361,271; Dec. 7; v. 281; p. 57.
Martin, Louis L., Toronto, Ontario, Canada. Perfumier. No. 1,353,258; Sept. 21; v. 278; p. 396.
Martin-Lumaghi Manufacturing Company. (See Cochran, John J., assignor.)
Martin, Luther B., Rexford, Mont. Automatically-locking switch-stand. No. 1,348,292; Aug. 3; v. 277; p. 32.
Martin, Max, New York, N. Y. Making vases. No. 1,353,628; Sept. 28; v. 278; p. 573.
Martin, Nye G. (See Garland, E. C., and Martin.)
Martin, Otto V., Fort Smith, Ark. Promoting body preservation in mausoleums. No. 1,338,579; Apr. 27; v. 273; p. 748.
Martin, Percy W., assignor to Smalley General Co., Bay City, Mich. Thread-milling machine. No. 1,355,240; Oct. 12; v. 279; p. 210.
Martin, Richard H., assignor of one-fourth to G. H. Purvis, Gainesville, Ga. Packet-holder. No. 1,334,624; Mar. 23; v. 272; p. 620.
Martin, Robert L., Thomas, W. Va. Nut-locking device. No. 1,327,836; Jan. 13; v. 270; p. 240.
Martin, Robert P., *et al.* (See Rollock, Samuel W. M., assignor.)
Martin Steel Products Co., The. (See Clum, Ira E., assignor.)
Martin, Stevie L., Snyder, Okla. Automatic lubricant-supply system for internal-combustion engines. No. 1,328,843; Jan. 27; v. 270; p. 495.
Martin, Talbot G., Chicago, Ill., assignor, by mesne assignments, to Automatic Electric Company. Common-battery automatic telephone system. No. 1,332,226; Mar. 2; v. 272; p. 9.
Martin, Talbot G., assignor to Automatic Electric Company, Chicago, Ill. Two-wire party-line lockout telephone system. (Reissue.) No. 14,846; Apr. 20; v. 273; p. 569.
Martin, Talbot G., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,338,318; Apr. 27; v. 273; p. 700.
Martin, Talbot G., assignor to Automatic Electric Company, Chicago, Ill. Code-ringing telephone system. (Reissue.) No. 14,863; May 25; v. 274; p. 767.
Martin, Talbot G., assignor to Automatic Electric Company, Chicago, Ill. Measured-service-telephone system. No. 1,350,875; Aug. 24; v. 277; p. 704.
Martin, Talbot G., assignor, by mesne assignments, to Automatic Electric Company, Chicago, Ill. Telephone trunking system. (Reissue.) No. 14,954; Oct 5; v. 279; p. 133.
Martin, Talbot G., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,361,885; Dec. 14; v. 281; p. 228.
Martin, Talbot G., Chicago, and E. Jacobsen, Evanston, assignors to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,347,584; July 27; v. 276; p. 623.
Martin, Thomas N., Mountain Home, Ark. Adjustable thrust-bearing for crank-shafts. No. 1,340,396; May 18; v 274; p. 461.
Martin, Thomas P., Jr., Oklahoma, Okla. Pass-book. No. 1,352,907; Sept. 14; v. 278; p. 269.
Martin, Truman J., Allentown, Pa. Auto-door-antirattling device. No. 1,344,644; June 29; v. 275; p. 842.
Martin, Truman J., Allentown, Pa. Auto-hood clamp. No. 1,358,012; Nov. 9; v. 280; p. 216.
Martin, Truman J., Allentown, Pa. Window-glass silencer. No. 1,363,528; Dec. 28; v. 281; p. 640.
Martin, Vena P., *et al.* (See Phillips, Lucius A., assignor.)
Martin, Wallace B., St. Paul, Minn. Valve grinding and reseating tool. No. 1,357,408; Nov. 2; v. 280; p. 89.
Martin, William A., and M. P. Roebuck, Waxahachie, assignors of one-third to G. E. White, Fort Worth, Tex. Cotton-chopper attachment for cultivators. No. 1,347,646; July 27; v. 276; p. 635.
Martin, William B., Beloit, Wis. Oven-shelf. No. 1,351,394; Aug. 31; v. 277; p. 870.
Martin, William C., assignor to Morand Bros.-Martin Cushion Wheel Company, Chicago, Ill. Cushion-wheel construction. No. 1,333,928; Mar. 16; v. 272; p. 443.
Martin, William C., assignor to Morand Bros.-Martin Cushion Wheel Company, Chicago, Ill. Cushion-wheel construction. No. 1,333,929; Mar. 16; v. 272; p. 444.
Martin, William H., New York, N. Y., assignor to American Telephone and Telegraph Company. Means for neutralizing interference. No. 1,329,842; Feb. 3; v. 271; p. 93.
Martin, William H., New York, N. Y., assignor to American Telephone and Telegraph Company. Correcting circuits for high-distortion lines. No. 1,347,049; July 20; v. 276; p. 461.
Martin, William H., Flushing, Netherlands. Exhaust-silencer for internal-combustion engines. No. 1,342,840; June 1; v. 275; p. 142.
Martin, William H., Flushing, Netherlands. Boring-machine. No. 1,356,871; Oct. 26; v. 279; p. 616.
Martin, William H., assignor to American Telephone and Telegraph Company, New York, N. Y. Substation-circuits. No. 1,357,296; Nov. 2; v. 280; p. 19.
Martin, William H., Detroit, Mich. House mail-receptacle. No. 1,359,412; Nov. 16; v. 280; p. 537.
Martin, William P., Nashua, Iowa. Door-spring. No. 1,328,961; Jan. 27; v. 270; p. 518.
Martindale, Charles G., Scotia, Calif. Pipe-wrench. No. 1,335,252; Mar. 30; v. 272; p. 799.
Martindale, Perry D., Pontiac, Mich. Ironing-board. No. 1,337,936; Apr. 20; v. 273; p. 558.
Martindale, Thomas B. (See Champion, John J., and Martindale.)
Martineau, Clarence R. (See Martineau, William C. and C. R.)
Martineau, Laureat L., St. John, N. D. Liquid-container for aeroplanes. No. 1,351,395; Aug. 31; v. 277; p. 870.
Martineau, William C. and C. R., Albany, N. Y. Fruit-jar. No. 1,336,367; Apr. 6; v. 273; p. 125.
Martinek, Stanley A., Amarillo, Tex. Priming-cup for internal-combustion motors. No. 1,329,464; Feb. 3; v. 271; p. 23.
Martinet, Edward D., Los Angeles, Calif. Composition board. No. 1,333,553; Mar. 9; v. 272; p. 313.
Martinez, Victorino, Habana, Cuba. Electric-lamp holder. No. 1,343,573; June 15; v. 275; p. 501.
Martinez, Regino A., assignor to P. E. Girard, Buenos Aires, Argentina. Igniting substance. No. 1,338,389; Apr. 27; v. 273; p. 713.
Martinka, Joseph J., Newark, N. J. Surgical appliance for women. No. 1,328,176; Jan. 13; v. 270; p. 304.
Martinka, Joseph J., Newark, N. J. Catamenial sack. No. 1,329,195; Jan. 27; v. 270; p. 562.
Martinoicz, Adolph, Muskegon, Mich. Rotary-motion mechanism. No. 1,350,106; Aug. 17; v. 277; p. 509.
Martinsen, Ottocar H., Toledo, Ohio. Building device. No. 1,361,886; Dec. 14; v. 281; p. 228.
Martinusen, Anton, and J. W. Storfold, Seattle, Wash. Sounding apparatus. No. 1,359,517; Nov. 23; v. 280; p. 603.
Martocci-Pisculli, Leon, New York, N. Y. Medicated pessary. No. 1,348,728; Aug. 3; v. 277; p. 115.
Martos, Miguel M., Mexico, Mexico. Cardboard-box. No. 1,349,780; Aug. 17; v. 277; p. 447.
Martucci, Francesco, Jersey City, N. J. Sanitary soap-holder. No. 1,328,177; Jan. 13; v. 270; p. 304.
Martus, Martin L. (See Schoenmehl, C. B., and Martus.)
Martyn, Thomas H. (See Martyn, William H., assignor.)

Digitized by Google

Martyn, William H., Tenterfield, assignor to T. H. Martyn, Sydney, New South Wales, Australia. Internal-combustion engine. No. 1,355,615; Oct. 12; v. 279; p. 282.
Martz, Boyd E., Williamsburg, Pa. Spectacle-case clip. No. 1,330,208; Feb. 10; v. 271; p. 193.
Martz, George R., Dallas, Tex. Toothbrush. No. 1,334,770; Mar. 23; v. 272; p. 649.
Marulli, Ernesto C., Holyoke, Mass. Valve. No. 1,337,462; Apr. 20; v. 273; p. 467.
Marvel Machinery Company. (See De Forest, Edgar A., assignor.)
Marvick, Frederick N., Pine Bluff, Ark. Still construction. No. 1,346,459; July 13; v. 276; p. 285.
Marvin, Phillips B., Somerville, Mass., and J. C. Phelan, Chicago, Ill., assignors to Invisible Ink Company, Boston, Mass. Attachment for refreshing typewriter-ribbons. No. 1,358,646; Nov. 9; v. 280; p. 343.
Marvin, Sylvester S., Bryn Mawr, and W. Muns, Philadelphia, assignors to Pennsylvania Chocolate Company, Pittsburgh, Pa. Chocolate and candy machine. No. 1,349,844; Aug. 17; v. 277; p. 459.
Marwin Truck Corporation. (See Winther, Anthony, assignor.)
Marx, Frederick P., St. Louis, Mo. Shoe-heel. No. 1,356,727; Oct. 26; v. 279; p. 587.
Marx, Frederick P., St. Louis, Mo. Shoe-heel. No. 1,362,256; Dec. 14; v. 281; p. 302.
Marx, George G., Detroit, Mich. Iron composition. No. 1,339,469; May 11; v. 274; p. 228.
Marx, Gustave C., assignor to Diehl Manufacturing Company, Elizabeth, N. J. Motor-support. No. 1,341,477; May 25; v. 274; p. 739.
Marx & Haas Clothing Co. (See Weinberger, Benjamin, assignor.)
Marx, J. F. (See Scully, G. H. and J. B., assignors.)
Marx, Richard, Philadelphia, Pa. Furnace. No. 1,357,790; Nov. 2; v. 280; p. 112.
Marx, Roland G., Palo Alto, and L. F. Fuller, San Francisco, assignors to Federal Telegraph Company, San Francisco, Calif. Radiotelegraphy. No. 1,344,052; June 22; v. 275; p. 660.
Maryland Toy Manufacturing Company. (See Dorsk, Frank L., assignor.)
Masaites, Charles A., Greenville, Me., assignor of one-fourth to J. Miller, Lincoln, N. H. Rifle attachment for throwing liquid. No. 1,333,268; Mar. 9; v. 272; p. 258.
Masanz, Raymond T., Edgar, Wis. Milk-can cover. No. 1,330,328; Feb. 10; v. 271; p. 215.
Mascart, Charles, Croissy-sur-Seine, France. Transporting and elevating apparatus. No. 1,345,454; July 6; v. 276; p. 25.
Mascart, Léon F., assignor to Société du Verre Triplex, Paris, France. Reinforced glass and making same. No. 1,342,267; June 1; v. 275; p. 129.
Mascart, Léon F., assignor to Société du Verre Triplex, Paris, France. Manufacture of reinforced glass. No. 1,342,268; June 1; v. 275; p. 129.
Maschek, Louis, and C. B. Higgins, Kansas City, Mo. Valve. No. 1,351,259; Aug. 31; v. 277; p. 842.
Maschinenfabrik Rüti, formerly Caspar Honegger. (See Egli, Eduard, assignor.)
Maschino, John A. (See Flum, E. L., and Maschino.)
Maschinot, Lawrence F., Cincinnati, Ohio. Shade-holder. No. 1,355,493; Oct. 12; v. 279; p. 259.
Mascord, George W., Barnes, London, England. Printing-machine. No. 1,329,325; Jan. 27; v. 270; p. 585.
Maserang, John B., Belleville, Ill. Hatpin attachment. No. 1,341,858; June 1; v. 275; p. 48.
Maserang, John B., Belleville, Ill. Hatpin attachment. No. 1,343,736; June 15; v. 275; p. 533.
Masheck, Louis E., Canton, Ohio. Dusting and deodorizing machine. No. 1,344,551; June 22; v. 275; p. 758.
Maske, Robert W., Chicago, Ill. Faucet. No. 1,345,615; July 6; v. 276; p. 56.
Masker, Frederick M., Plainfield, N. J. Fruit-jar tongs. No. 1,343,518; June 15; v. 275; p. 489.
Maskoliunas, Jacob, *et al.* (See Mahtes, Anthony, assignor.)
Maskrey, Arthur J., Jr., Canton, Ohio. Fuel-feeder for feeding pulverized fuel to furnaces. No. 1,362,026; Dec. 14; v. 281; p. 256.
Masland, Harvey C., Philadelphia, Pa. Surgical saw for cranial and other purposes. No. 1,358,865; Nov. 16; v. 280; p. 432.
Mason, Arnold T., Hampstead, London, England. Book. No. 1,353,774; Sept. 21; v. 278; p. 499.
Mason, Arthur C., Paterson, N. J. Drill-press. No. 1,330,130; Feb. 10; v. 271; p. 179.
Mason, Arthur C., Flint, assignor to General Motors Corporation, Detroit, Mich. Tractor. No. 1,354,672; Oct. 5; v. 279; p. 45.
Mason, Carl T., East Orange, assignor to Splitdorf Electrical Company, Newark, N. J. Ignition-switch. No. 1,349,080; Aug. 10; v. 277; p. 236.
Mason, Charles E., Detroit, Mich., assignor to G. Waldref, St. Paul, Minn. Shifter-shoe for clutches. No. 1,345,327; June 29; v. 275; p. 972.
Mason, Charles E., Detroit, Mich., assignor to G. Waldref, St. Paul, Minn. Manifold-bracket for hydraulic hoists. No. 1,345,616; July 6; v. 276; p. 56.
Mason, Charles P., and R. A. Dixon, Pittsburgh, Pa. Game. No. 1,327,056; Jan. 6; v. 270; p. 34.
Mason, Charles T., Sumter, S. C., assignor to Splitdorf Electrical Company, Newark, N. J. Interrupter for ignition devices. No. 1,327,844; Jan. 6; v. 270; p. 86.
Mason, Charles T., Sumter, S. C., assignor to Splitdorf Electrical Company, Newark, N. J Ignition-dynamo. No. 1,354,502; Oct. 5; v. 279; p. 11.
Mason, Charles T., Sumter, S. C., assignor to Splitdorf Electrical Company, Newark, N. J. Ignition apparatus. No. 1,363,742; Dec. 28; v. 281; p. 681.
Mason, David. (See Chapman, W. B., and Mason.)
Mason, Elliott J. (See Bickley, R. M., and Mason.)
Mason, George C., Springfield, Mass., assignor to F. D. Spotswood, Lexington, Ky. Megaphone. No. 1,349,258; Aug. 10; v. 277; p. 278.
Mason, Irving W., Aberdeen, Wash. Floor structure. No. 1,344,181; June 22; v. 275; p. 685.
Mason, James B., Jr., Nashville, Tenn. Brush. No. 1,356,080; Oct. 19; v. 279; p. 413.
Mason, Jason B., assignor to Reed Foundry & Machine Co., Kalamazoo, Mich. Tractor-plow. No. 1,339,603; May 11; v. 274; p. 254.
Mason, John, Philadelphia, Pa. Templet. No. 1,362,726; Dec. 21; v. 281; p. 445.
Mason, Joseph. (See Kelley, W. V. D., and Mason.)
Mason, Joseph, New York, N. Y., assignor, by mesne assignments, to Prizma Incorporated. Method and apparatus for treating films. No. 1,348,029; July 27; v. 276; p. 712.
Mason, Joseph H., East Providence, R. I. Tool-holder. No. 1,334,775; Mar. 23; v. 272; p. 649.
Mason, Loren D., assignor of one-half to O. M. Myers, Kokomo, Ind. Oil-stove chimney. No. 1,335,591; Mar. 30; v. 272; p. 862.
Mason, Ralph B., Somerset, Pa. Sheaf-distributer for threshers. No. 1,341,238; May 25; v. 274; p. 692.
Mason, Ralph B., Somerset, Pa. Container for sheaf-loaders. No. 1,341,239; May 25; v. 274; p. 692.
Mason, Ralph B., Somerset, Pa. Agricultural implement. No. 1,344,552; June 22; v. 275; p. 758.
Mason, Richard, Saratoga Springs, N. Y. Ash-sifter. No. 1,356,385; Oct. 19; v. 279; p. 474.
Mason, Samuel J., Perth Amboy, N. J. Recording mechanism. No. 1,363,139; Dec. 21; v. 281; p. 525.
Mason, Samuel P. (See Manning, Timothy C., assignor.)
Mason, Stanley F., and A. M. Smith, Petersburg, Va. Brake-operating mechanism. No. 1,330,715; Feb. 10; v. 271; p. 287.
Mason, Summer R., assignor to Western Electric Company, Incorporated, New York, N. Y. Cleansing ferrous and non-ferrous metals. No. 1,337,718; Apr. 20; v. 273; p. 516.
Mason, William B., and L. S. Ryan, Lamar, Mo. Bed-tray. No. 1,343,636; June 15; v. 275; p. 513.
Mason, William C., Albany, N. Y., assignor to The Dayton Malleable Iron Company, Dayton, Ohio. Rail-joint box. No. 1,344,808; June 29; v. 275; p. 874.
Mason, William H., assignor of one-half to W. S. Mallory, Easton, Pa. Method and apparatus for packing material. No. 1,360,000; Nov. 23; v. 280; p. 698.
Mass, August G., and L. Nusbaum, Cincinnati, Ohio. Support for telephone-receivers. No. 1,332,183; Feb. 24; v. 271; p. 642.
Massatsch, Cornelius, Berlin-Tempelhof, Germany, assignor to The Permutit Company, New York, N. Y. Manufacture of purifying materials. No. 1,343,927; June 22; v. 275; p. 636.
Massé, Joseph A., Lindsay, Ontario, Canada. Shaft-coupling. No. 1,334,388; Mar. 23; v. 272; p. 576.
Massey, Charles F., assignor to Massey Concrete Products Corporation, Chicago, Ill. Pole-making machine. No. 1,346,411; July 13; v. 276; p. 275.
Massey Concrete Products Company. (See Hobson, John S., assignor.)
Massey Concrete Products Corporation. (See Massey, Charles F., assignor.)
Massey, Grover C., Ansted, W. Va. Holder for explosive caps. No. 1,329,986; Feb. 3; v. 271; p. 120.
Massi, Anthony, Rochester, N. Y. Check-printer. No. 1,345,794; July 6; v. 276; p. 91.
Massie, Thomas K., Athens, W. Va. Silo. No. 1,335,747; Apr. 6; v. 273; p. 8.
Massillon Wire Basket Co., The. (See Schworm, Clarence W., assignor.)
Massing, Charles A., Millcreek township, Erie county, assignor to Griswold Manufacturing Company, Erie, Pa. Cooking utensil. No. 1,330,209; Feb. 10; v. 271; p. 193.
Massis, Emile, London, England. Balanced window-sash. No. 1,347,703; July 27; v. 276; p. 647.
Massoline, Peter D., Jersey City, N. J., and L. Ronca, New York, N. Y. Steering-wheel lock for motor-vehicles. No. 1,353,487; Sept. 21; v. 278; p. 441.
Massoli, Curtis A., assignor of one-half to J. A. Whittaker, Detroit, Mich. Latch. No. 1,338,689; May 4; v. 274; p. 7.
Mast, John C., assignor to F. X. Hooper Company, Inc., Glenarm, Md. Holding device for printing-plates. No. 1,343,220; June 15; v. 275; p. 433.
Mastalerz, Joseph, assignor of one-half to T. Sawicki, Milwaukee, Wis. Curtain and shade bracket. No. 1,358,967; Nov. 16; v. 280; p. 451.

Digitized by Google

Master, Shaverksha D., Broach, India. Gun. No. 1,331,474; Feb. 17; v. 271; p. 498.
Master, Shaverksha D., Broach, India. Tire. No. 1,346,503; July 13; v. 276; p. 294.
Masters, Cora M., Clarkton, N. C. Flashlight attachment for firearms. No. 1,362,432; Dec. 14; v. 281; p. 335.
Masters, Vere H., and M. G. Shoop, Sioux Falls, S. D. Torpedo-trap. No. 1,346,551; July 13; v. 276; p. 303.
Masterson, John T., Huntington, W. Va. Gas-burner. No. 1,351,431; Aug. 31; v. 277; p. 877.
Masterson, Meckley, Chicago, Ill. Violin bass-bar. No. 1,333,088; Mar. 9; v. 272; p. 226.
Masterson, Patrick, South Porcupine, Ontario, Canada. Punching-machine. No. 1,327,720; Jan. 13; v. 270; p. 218.
Mastin, Ellsworth, *et al.* (See Mowatt, Alexander, assignor.)
Masumoto, Shigeru, Los Angeles, Calif. Automobile traffic-signal. No. 1,348,367; Aug. 3; v. 277; p. 47.
Masury, Alfred F., and R. S. Bolger, assignors to International Motor Company, New York, N. Y. Clutch-control device. No. 1,345,685; July 6; v. 276; p. 70.
Masury, Alfred F., and A. G. Herreshoff, assignors to International Motor Company, New York, N. Y. Steering-wheel. No. 1,361,272; Dec. 7; v. 281; p. 58.
Mata, José A., Berkeley, Calif. Foot-warmer. No. 1,348,506; Aug. 3; v. 277; p. 73.
Mathe, Joseph J. (See Fleming, I., and Hill, assignors.)
Matheny, Thomas D., Pontiac, Mich. Lifeboat and diving apparatus. No. 1,331,819; Feb. 24; v. 271; p. 584.
Mather, Alonzo C., Chicago, Ill. Electric heater. No. 1,351,779; Sept. 7; v. 278. p. 12.
Mather, Gurdon C., Detroit, Mich. Gear-shift lock. No. 1,349,973; Aug. 17; v. 277; p. 484.
Mather, Marion, Olean, N. Y. Card-exhibitor. No. 1,354,261; Sept. 28; v. 278; p. 642.
Mathes, Gunther E. H., assignor to Waterbury Clock Co., Waterbury, Conn. Metal clock-dial. No. 1,347,173; July 20; v. 276; p. 484.
Matheson, John J., Gloucester, Mass. Fish-trap and fishing. No. 1,363,424; Dec. 28; v. 281; p. 619.
Matheson, Roderick D., Montreal, Quebec, Canada. Garment-hanging equipment. No. 1,361,739; Dec. 7; v. 281; p. 152.
Mathews, Charley B., Andalusia, Ala. Chipper's guide-marker. No. 1,327,874; Jan. 13; v. 270; p. 247.
Mathews, Frederick C., Company. (See Tansey, William J., assignor.)
Mathews Gravity Carrier Company. (See Buck, Herman J., assignor.) (Reissue.)
Mathews, John C. (See Maffett, W. L., and Gray, assignors.)
Mathews, Karl. (See Macheroux, Louis, assignor.)
Mathews, Thomas, Leicester, England. Toy, kindergarten appliance, and the like. No. 1,333,181; Mar. 9; v. 272; p. 242.
Mathewson, Henry B., and K. Knutsen, San Francisco, Calif. Interpupillary-distance-measuring instrument. No. 1,327,163; Jan. 6; v. 270; p. 53.
Mathewson, Henry B., San Francisco, Calif., assignor to American Optical Company, Southbridge, Mass. Lens-testing instrument. No. 1,336,040; Apr. 6; v. 273; p. 64.
Mathias, Berton M., Minneapolis, Minn. Shifting mechanism for cultivators. No. 1,332,947; Mar. 9; v. 272; p. 199.
Mathias, Berton M., Minneapolis, Minn. Rod-splicing clamp. No. 1,338,746; May 4; v. 274; p. 18.
Mathias, Berton M., Minneapolis, Minn. Mud-lug. No. 1,340,834; May 18; v. 274; p. 543.
Mathias, George V., Humboldt, Kans. Chain-coupling. No. 1,337,846; Apr. 20; v. 273; p. 541.
Mathias, Thomas H., Buffalo, assignor to Lackawanna Steel Company, Lackawanna, N. Y. Machine for removing defective surfaces of metal bars. No. 1,360,001; Nov. 23; v. 280; p. 699.
Mathieson Alkali Works (Inc.), The. (See Gegenheimer, R. E., and Mauran, assignors.)
Mathieu, Frederick W., New York, N. Y. Globe for lighting-fixtures. No. 1,354,262; Sept. 28; v. 278; p. 642.
Mathis, August, Chicago, Ill. Centrifugal fan. No. 1,354,673; Oct. 5; v. 279; p. 46.
Mathis, Paul. (See Craun, W. H., and Mathis.)
Mathison, Albert O., New Britain, Conn. Work-holding device. No. 1,346,504; July 13; v. 276; p. 294.
Mathy, Maurice, Liege, Belgium. Burner. No. 1,331,022; Feb. 17; v. 271; p. 415.
Mathy, Maurice, Liege, Belgium. Furnace for heating rods and the like. No. 1,339,034; May 4; v. 274; p. 71.
Mathy, Maurice, Liege, Belgium. Furnace. No. 1,349,899; Aug. 17; v. 277; p. 469.
Matison, Saul. (See Green, N., and Matison.)
Matlack, James C., assignor to Notaseme Hosiery Company, Philadelphia, Pa. Stocking. No. 1,352,078; Sept. 7; v. 278; p. 71.
Matlock, Caswell C., Eugene, Oreg., assignor of four-fifteenths to M. M. Bull. Gas-lighter for burners. No. 1,362,538; Dec. 14; v. 281; p. 356.
Matloob, Thomas, Paterson, N. J. Shuttle. No. 1,344,553; June 22; v. 275; p. 759.
Matney, William, Stacy, Va. Car-replacing device. No. 1,347,349; July 20; v. 276; p. 520.
Matoba, Hisashi, Whitefish, Mont. Track-level. No. 1,329,196; Jan. 27; v. 270; p. 562.
Matoba, Hisashi, Whitefish, Mont. Track gage and level. No. 1,329,197; Jan. 27; v. 270; p. 562.
Matson, Albert J., Bolivar, N. Y. Convertible coaster. No. 1,330,644; Feb. 10; v. 271; p. 274.
Matson, Jacob F., St. Paul, Minn. Vehicle-heating device. No. 1,332,053; Feb. 24; v. 271; p. 628.
Matson, Ralph C., Portland, Oreg. Photographic-plate holder. No. 1,358,090; Nov. 9; v. 280; p. 232.
Matsusaki, Sanjiro, Vancouver, B. C., Canada. Handbag. No. 1,362,884; Dec. 21; v. 281; p. 475.
Matsuura, Ushitaro, Otagi-Gun, Japan. Medicine. No. 1,346,132; July 13; v. 276; p. 221.
Mattatuck Manufacturing Company, The. (See Raeburn, William, assignor.)
Matte, Ernest P., Montreal, Quebec, Canada. Arch-support. No. 1,361,740; Dec. 7; v. 281; p. 152.
Matter, Albert J., Portland, Oreg., assignor to Nu Automatic Button Attaching Machine Company. Machine for attaching staples and particularly for attaching buttons to articles. No. 1,336,786; Apr. 13; v. 273; p. 265.
Matter, Albert J., Portland, Oreg., assignor to Nu Automatic Button Attaching Machine Company. Button-attaching machine. No. 1,336,787; Apr. 13; v. 273; p. 265.
Matter, Albert J., and F. V. Conley, assignors to Nu Automatic Button Attaching Machine Company, Portland, Oreg. Machine for effecting orderly distribution of articles, particularly buttons. No. 1,336,785; Apr. 13; v. 273; p. 265.
Mattern, Frank C., Great Neck, N. Y., assignor to Fairbanks Company. Cotton-seed-weighing apparatus. No. 1,328,747; Jan. 20; v. 270; p. 448.
Mattern, J. F., Wilkinsburg, and G. M. Stoner, assignor to Elliott Company, Pittsburgh, Pa. Blow-off valve. No. 1,358,968; Nov. 16; v. 280; p. 452.
Matteson, Frederick R., Taunton, assignor to Freeman-Daughaday Company, Chartley, Mass. Separable cuff-button. No. 1,352,908; Sept. 14; v. 278; p. 269.
Matteson, Guy W. (See Ehr, John N. and W. J., and Matteson.)
Matthael, Lillian M., New York, N. Y. Bodkin. No. 1,337,480; Apr. 20; v. 273; p. 471.
Matthes, Samuel S., assignor to The Ohio Brass Company, Mansfield, Ohio. Trolley-wire clamp. No. 1,355,614; Oct. 12; v. 279; p. 282.
Matthew, Oscar, Ford, Kans. Silo-hoist. No. 1,348,435; Aug. 3; v. 277; p. 60.
Matthews, Claude L., assignor to W. N. Matthews and Brother, Inc., St. Louis, Mo. Lock for lamp-guards. No. 1,362,335; Dec. 14; v. 281; p. 317.
Matthews Engineering Company, The. (See Cosgray, Mark C., assignor.)
Matthews, Frederick W., assignor, by mesne assignments, to Arrow Phonograph Corporation, West Orange, N. J. Talking-machine record, and method and tool for making such records. No. 1,350,510; Aug. 24; v. 277; p. 635.
Matthews, Harry, Rochdale, England. Loom-shuttle. No. 1,358,229; Nov. 9; v. 280; p. 259.
Matthews, Herbert. (See Seator, Robert J., assignor.)
Matthews, James H., & Company. (See Thompson, George S., assignor.)
Matthews, Matthew H., London, England, assignor to Rownson, Drew & Clydesdale Incorporated, New York, N. Y. Apparatus for elevating or conveying boxes or other articles. No. 1,361,273; Dec. 7; v. 281; p. 58.
Matthews, Thomas, East Cleveland, Ohio. Fire-alarm circuit-closer. No. 1,332,469; Mar. 2; v. 272; p. 56.
Matthews, Thomas A., Nashville, Tenn. Sheet-delivery cabinet. No. 1,357,070; Oct. 26; v. 279; p. 655.
Matthews, Thomas A., Nashville, Tenn. Envelop or card delivery cabinet. No. 1,357,071; Oct. 26; v. 279; p. 655.
Matthews, Vernon, Carthage, Mo. Tractor-hitch. No. 1,336,474; Apr. 13; v. 273; p. 205.
Matthews, W. N., and Brother. (See Heinrich, Walter A., assignor.)
Matthews, W. N., and Brother. (See Johns, George M., assignor.)
Matthews, W. N., and Brother. (See Matthews, Claude L., assignor.)
Matthews, W. N., and Brother. (See Stanton, Joseph B., assignor.)
Matthews, Zhetley V., Charleston, Wash. Kitchen-fixture. No. 1,327,489; Jan. 6; v. 270; p. 113.
Matthiensen, Edward, Minneapolis, Minn. Combination plow and pulverizer. No. 1,333,503; Mar. 9; v. 272; p. 303.
Matthies, William H., Hackensack, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,334,311; Mar. 23; v. 272; p. 562.
Matthies, William H., Hackensack, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,362,126; Dec. 14; v. 281; p. 276.
Matthiessen, Conrad S., Philadelphia, Pa. Nozzle for pneumatic cotton-pickers. No. 1,328,386; Jan. 20; v. 270; p. 380.

Digitized by Google

Matthiessen, Conrad S., assignor of one-tenth to C. J. Hepburn, one-fifth to W. M. Longstreth, Philadelphia, Pa., and one-tenth to W. F. Sprenkel, New York, N. Y. Cotton-picker. No. 1,328,385; Jan. 20; v. 270; p. 380.

Mattice, Royal, Middletown, N. J. Electrode for electric welding. No. 1,361,269; Dec. 7; v. 281; p. 57.

Mattingly, Charles F., Puxico, Mo. Automatic safety-valve for water-gages. No. 1,362,257; Dec. 14; v. 281; p. 302.

Mattingly, Leonard H., Allegan, Mich. Universal joint. No. 1,333,988; Mar. 16; v. 272; p. 455.

Mattingley, Ray S., Rockport, Ind. Cultivator. No. 1,341,240; May 25; v. 274; p. 693.

Mattis, John M., Sioux City, Iowa. Workbench, crane, and engine-stand, combined. No. 1,337,847; Apr. 20; v. 273; p. 541.

Mattison, Charles D., Hasbrouck Heights, N. J., assignor to The Unitrim Company, Inc., New York, N. Y. Trimming-machine. No. 1,334,044; Mar. 16; v. 272; p. 466.

Mattison, Georgette H. K., Ambler, Pa. Washbasin. No. 1,361,887; Dec. 14; v. 281; p. 228.

Mattison, Richard V., Jr., Upper Dublin township, Montgomery county, Pa. Manufacturing fibrous cement products. No. 1,327,721; Jan. 13; v. 270; p. 219.

Mattison, Richard V., Jr., Upper Dublin township, Montgomery county, Pa. Wet mixer. No. 1,344,306; June 22; v. 275; p. 710.

Mattison, Richard V., Jr., Upper Dublin township, Montgomery county, Pa. Cement structural material. No. 1,355,406; Oct. 12; v. 279; p. 242.

Mattson, Tycko L., Paswegin, Saskatchewan, Canada. Cuff-button holder. No. 1,360,129; Nov. 23; v. 280; p. 724.

Mattsson, Gunnar, Gottenborg, Sweden. Producing interiorly-cylindrical surfaces having an exact diameter. No. 1,360,558: Nov. 30; v. 280; p. 876.

Matys, Joseph, East Brimfield, Mass. Searchlight-firearm. No. 1,338,239; Apr. 27; v. 273; p. 684.

Matz, Adline M., Valley City, N. D. Hatbox. No. 1,337,087; Apr. 13; v. 273; p. 323.

Matz, Charles F., M. G., and B. V. Kerper, Dubuque, Iowa. Harrow. No. 1,355,494; Oct. 12; v. 279; p. 259.

Matz, Franz, *et al.* (See Bretscher, Hans, assignor.)

Matz, Michael G. (See Matz, C. F. and M. G., and Kerper.)

Matzet, George M. (See Smith, Cloyde H., assignor.)

Mauclaire, Raymond, Asnières, and L. Delamotte, Paris, France. Auto-propelled vehicle. No. 1,341,379; May 25; v. 274; p. 720.

Mauerhofer, Louis, Paris, France. Autoclave-tray for cooking glue. No. 1,337,146; Apr. 13; v. 273; p. 333.

Maulden, Arthur O., Kannapolis, N. C. Toy-cap-exploding device. No. 1,333,810; Mar. 16; v. 272; p. 422.

Maulis, Rudolph D., Sterling, Nebr. Internal-combustion engine. No. 1,354,772; Oct 5; v. 279; p. 65.

Maull, Clinton J., Wilmington, Del. Lock-nut washer. No. 1,360,662; Nov. 30; v. 280; p. 897.

Maull, Edward N., assignor to S. F. Williams, Jacksonville, Fla. Hulling and cleaning machine. No. 1,334,708; Mar. 23; v. 272; p. 636.

Maultsby, Tony S., Greenville, N. C. Combined garden implement. No. 1,335,006; Mar. 30; v. 272; p. 753.

Maune, Ervin H., *et al.* (See Wertz, T., and Springmeyer, assignors.)

Maupai, Eugene L., West New York, N. J. Dyeing raw silk. No. 1,332,675; Mar. 2; v. 272; p. 95.

Maupai, Eugene L., New York, N. Y. Dyeing raw silk. No. 1,352,014; Sept. 7; v. 278; p. 5.

Mauran, Max. (See Gegenheimer, R. E., and Mauran.)

Mauran, Max. (See Gerfin, G. P., and Mauran.)

Maurer, John F., West New York, N. J. Crate for bottles. No. 1,328,748; Jan. 20; v. 270; p. 448.

Maurer, Oscar, Richmond Hill, N. Y. Sunshade. No. 1,351,839; Aug. 31; v. 277; p. 859.

Maurice Company, The. (See Rosenwasser, Paul M., assignor.)

Mauritzen, Robert G., Shreveport, La. Car-door. No. 1,355,495; Oct. 12; v. 279; p. 259.

Mauss, Wilhelm, Johannesburg, Transvaal, South Africa. Centrifugal apparatus with planetary movement. No. 1,339,272; May 4; v. 274; p. 114.

Mauss, Wilhelm, Johannesburg, Transvaal, South Africa. Centrifugal separation. No. 1,355,559; Oct. 12; v. 279; p. 272.

Maussner, Madeline L., Collingswood, N. J. Filling for mattresses and cushions. No. 1,335,289; Mar. 30; v. 272; p. 806.

Mauvillin, Emile, and V. Guillet, Courbevoie, France. Producing imitation of mother-of-pearl. No. 1,351,529; Aug. 31; v. 277; p. 897.

Maw, Robert, assignor to The Universal Machinery Company, Limited, Montreal, Quebec, Canada. Reversible-flow pump. No. 1,330,889; Feb. 17; v. 271; p. 389.

Mawdsley, John H. St. H., Dursley, and H. F. Joel, Sr., Forest Gate, England. Dynamo-electric machinery. No. 1,347,647; July 27; v. 276; p. 635.

Max Ams Machine Company, The. (See Brenzinger, Julius, assignor.)

Maxcy, Warren G., and W. A. Rideout, Oshkosh, Wis. Door-bottom weather-strip. No. 1,339,775; May 11; v. 274; p. 286.

Maxfield, Daniel E., Moorestown, and C. B. Green, Florence, N. J., assignors to W. Wood, Philadelphia, Pa. Bead-forming tool. No. 1,332,740; Mar. 2; v. 272; p. 108.

Maxfield, James B., Spokane, Wash. Collar-fastener. No. 1,336,147; Apr. 6; v. 273; p. 84.

Maxham, Lowell M., Boston, Mass. Automobile life-guard. No. 1,332,134; Feb. 24; v. 271; p. 643.

Maxim, Hiram P., assignor to The Maxim Silencer Company, Hartford, Conn. Silencer. No. 1,330,486; Feb. 10; v. 271; p. 244.

Maxim, Hosea F., assignor of one-half to O. Wells, Norfolk, Va. Connector for electrical conductors. No. 1,336,850; Apr. 13; v. 273; p. 278.

Maxim Silencer Company, The. (See Maxim, Hiram P., assignor.)

Maxon, Glenway, Jr., Milwaukee, Wis. Road-finishing machine. No. 1,359,264; Nov. 16; v. 280; p. 507.

Maxson, George D., West Edmeston, N. Y. Ice-creeper. No. 1,329,987; Feb. 3; v. 271; p. 120.

Maxwell, Annie L., Waco, Tex. Device for teaching music. No. 1,337,937; Apr. 20; v. 273; p. 558.

Maxwell, Archibald, Woodlawn, Pa. Scraping apparatus for furnaces. No. 1,362,336; Dec. 14; v. 281; p. 317.

Maxwell, George H. (See Hogue, Oliver D., assignor.)

Maxwell, George S., assignor to A. Ralph Serven, trustee, Washington, D. C. Internal-combustion engine. No. 1,339,035; May 4; v. 274; p. 71.

Maxwell, George W., Chicago, Ill. Embroidering device. No. 1,354,119; Sept. 28; v. 278; p. 613.

Maxwell, James G. (See Fidler, F., and Maxwell.)

Maxwell, James T. (See Van Vleet, C. W., and Haley.)

Maxwell, James T., *et al.* (See Van Vleet, Charles W., assignor.)

Maxwell, John S., assignor to The Starr Piano Company, Richmond, Ind. Safety-valve. No. 1330,329; Feb. 10; v. 271; p. 215.

Maxwell, John S., assignor to Starr Piano Company, Richmond, Ind. Automatic piano-player action. No. 1,358,455; Nov. 9; v. 280; p. 305.

Maxwell, M. P., Brooklyn, and J. S. Lawson, St. James, N. Y. Electric switch. No. 1,350,107; Aug. 17; v. 277; p. 509.

Maxwell, Marshall P. (See Bennett, Charles E., assignor.)

Maxwell Motor Co. (See Taylor, Earl A., assignor.)

Maxwell Motor Company. (See McNamara, Raymond F., assignor.)

Maxwell, Ross R. (See Lowe, Albert H., assignor.)

Maxwell, Samuel A. (See Beene, John L., assignor.)

Maxwell, Thomas A., Chanute, Kans. Hair-cutting device. No. 1,353,173; Sept. 21; v. 278; p. 380.

Maxwell, William, Bloomington, Ill. Railway-gate. No. 1,329,054; Jan. 27; v. 270; p. 535.

May, Benjamin. (See Codos, J., and May.)

May, Daniel T. (See McAneny and May.)

May, David T., assignor to Western Electric Company, Incorporated, New York, N. Y. Protective device. No. 1,362,337; Dec. 14; v. 281; p. 317.

May Department Stores Company. (See Pokorny, Joseph, assignor.)

May, George T., Jr. (See Whitelaw, J., and May.)

May, Horace W., Orosi, Calif. Steam-engine. No. 1,334,665; Mar. 23; v. 272; p. 628.

May, John B., Brooklyn, N. Y. Latch. No. 1,329,719; Feb. 3; v. 271; p. 70.

May, Walter J., Chicago, Ill. Life-preserver. No. 1,343,928; June 22; v. 275; p. 636.

May, Walter P., assignor of one-half to S. Andrews, St. Louis, Mo. Bracelet. No. 1,326,948; Jan. 6; v. 270; p. 18.

May, Walter P., assignor of one-half to S. Andrews, St. Louis, Mo. Chauffeur's sandal. No. 1,335,346; Mar. 30; v. 272; p. 817.

May, William F., Detroit, Oreg. Milk-pail. No. 1,330,545; Feb. 10; v. 271; p. 256.

Mayall, Edwin L., assignor to The Holt Manufacturing Company, Stockton, Calif. Vineyard-plow. No. 1,333,811; Mar. 16; v. 272; p. 422.

Mayer, Arthur, Richmond Hill, N. Y., assignor to Edward V. Hartford, Inc. Bumper. No. 1,329,670; Feb. 3; v. 271; p. 61.

Mayer Brothers Company. (See Hatcher, O. M., and Bye, assignors.)

Mayer, Franc D., Chicago, Ill. Tire filler and making same. No. 1,351,670; Aug. 31; v. 277; p. 924.

Mayer, Frank A., assignor of one-half to J. F. Gaffney, Syracuse, N. Y. Amusement device. No. 1,357,465; Nov. 2; v. 280; p. 50.

Mayer, Frank C., Bridgeville, Pa. Tie for mine-railways. No. 1,359,413; Nov. 16; v. 280; p. 537.

Mayer, Fred G., assignor to The Starr Piano Company, Richmond, Ind. Matrix for sound-records. No. 1,327,722; Jan. 13; v. 270; p. 219.

Mayer, George. (See Foster, George W., assignor.)

Mayer, John G., Milwaukee, Wis. Hay-carriage. No. 1,342,341; June 1; v. 275; p. 142.

Mayer, Joseph W., Troy, assignor to J. A. Murray, Albany, N. Y. Mouthpiece for brush-making machines. No. 1,349,845; Aug. 17; v. 277; p. 459.

Digitized by Google

Mayer, Louis, assignor to Kaukauna Machine Works, Kaukauna, Wis. Thistle-eradicator. No. 1,358,323; Nov. 9; v. 280; p. 278.
Mayer, Max, Fort Lee, and T. Yeo, Union Hill, N. J., assignors to M. J. Wohl & Co., Brooklyn, N. Y. Diffusing-screen. No. 1,361,344; Dec. 7; v. 281; p. 73.
Mayer, Maximilian, Orange, J. N. Wiggin, East Orange, and J. D. Wiggin, Montclair, assignors to H. B. Wiggin's Sons Company, Bloomfield, N. J. Plastic. No. 1,360,130; Nov. 23; v. 280; p. 724.
Mayer, Samuel, New York, N. Y. Dictionary. No. 1,328,178; Jan. 13; v. 270; p. 304.
Mayer, Samuel M., Long Island, N. Y. Pocket drinking-cup. No. 1,356,995; Oct. 26; v. 279; p. 640.
Mayer, Thomas M., assignor to E. T. Curran, Brooklyn, N. Y. Gas-heated boiler. No. 1,342,342; June 1; v. 275; p. 142.
Mayer, Waldemar F., Philadelphia, Pa., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J. Machine-tool control. No. 1,352,673; Sept. 14; v. 278; p. 222.
Mayer, Walter S., and W. C. Kennedy, New Brighton, Pa. Electric furnace. No. 1,350,876; Aug. 24; v. 277; p. 705.
Mayer, Walter S., and W. C. Kennedy, New Brighton, Pa. Oxidizing materials in electric furnaces. No. 1,350,877; Aug. 24; v. 277; p. 705.
Mayer, William E., Cincinnati, Ohio. Flash-light apparatus. No. 1,333,030; Mar. 9; v. 272; p. 215.
Mayer, William G., Pittsburgh, Pa. Supporting connection for vehicle-bodies. No. 1,339,521; May 11; v. 274; p. 238.
Mayerle, George, San Francisco, Calif. Eyeglass-shield. No. 1,335,517; Mar. 30; v. 272; p. 849.
Mayers, Joseph A., New York, N. Y. Instantaneous water-heater. No. 1,353,174; Sept. 21; v. 278; p. 381.
Mayers, Lewis, New York, N. Y. Internal-combustion engine. No. 1,327,345; Jan. 6; v. 270; p. 86.
Mayers, Wilbur S., Fairmont, W. Va. Automatic conveyer and leer. No. 1,338,240; Apr. 27; v. 273; p. 685.
Mayfield, J. Elvans. (See Hardy, David G., assignor.)
Mayhall, James E., Covington, Ky. Direction-indicator. No. 1,351,671; Aug. 31; v. 277; p. 925.
Mayhew, Joseph H., Minneapolis, Minn. Apparatus for heating and tempering grain. No. 1,361,475; Dec. 7; v. 281; p. 100.
Mayland, Niels J., Newell, Iowa. Antiskid-chain tightener. No. 1,341,241; May 25; v. 274; p. 693.
Maynard, Amos H., East Durham, N. C. Ring-gage. No. 1,330,330; Feb. 10; v. 271; p. 215.
Maynard, Arthur H., Warwick, R. I., assignor to Boston Wire Stitcher Company, Portland, Me. Booklet-stitching machine. No. 1,336,251; Apr. 6; v. 273; p. 103.
Maynard, Thomas J. (See Vannam-Smith, W. A., and Maynard.)
Mayne, Dexter D., St. Paul, Minn. Self-waiting system for lunch-rooms. No. 1,330,890; Feb. 17; v. 271; p. 389.
Mayne, John A. (See Fisher, Olive, assignor.)
Maynes, Hyla F. (See Lauster, August P., assignor.)
Maynes, Hyla F., Gaines, Pa. Amusement apparatus. No. 1,353,929; Sept. 28; v. 278; p. 573.
Maynes, Hyla F., Gaines, Pa. Amusement apparatus. No. 1,361,476; Dec. 7; v. 281; p. 101.
Maynes, Hyla F., Gaines, Pa. Amusement apparatus. No. 1,362,885; Dec. 21; v. 281; p. 475.
Maynes, Hyla F., Gaines, Pa. Amusement apparatus. No. 1,362,886; Dec. 21; v. 281; p. 475.
Mayo, Joseph E., assignor of one-half to G. C. Bassett, Sacramento, Calif. Machine for the mechanical application of paints and other liquids. No. 1,336,041; Apr. 6; v. 273; p. 64.
Mayo-Skinner Manufacturing Co. (See Miller, Charles R., assignor.) (Reissue.)
Mayo, William, San Francisco, Calif. Control for spotlights. No. 1,334,666; Mar. 23; v. 272; p. 628.
Maytag Company, The. (See Thompson, Herbert L., assignor.)
Maytag, Fred L., Newton, Iowa. Deflooder for internal-combustion engines. No. 1,342,558; June 8; v. 275; p. 238.
Mazna, James F., *et al.* (See Anderson, Albert L., assignor.)
Mazuryk, Bartlomiej, Tugaske, Saskatchewan, Canada. Permutation-padlock. No. 1,354,773; Oct. 5; v. 279; p. 65.
Mazuryk, Bartlomiej, Tugaske, Saskatchewan, Canada. Stump-puller. No. 1,357,577; Nov. 2; v. 280; p. 71.
Mazzocco, Dante V. (See Chase, G. C., and Mazzocco.)
Meacham, Benjamin E., Lorain, Ohio, assignor to American Stove Company, St. Louis, Mo. Thermostatic tube and connection therefor. No. 1,330,600; Feb. 10; v. 271; p. 265.
Meacham, Benjamin E., Lorain, Ohio, assignor to American Stove Company, St. Louis, Mo. Thermostatic fuel control for gas-heated ovens. No. 1,334,776; Mar. 23; v. 272; p. 650.
Meacham, Benjamin E., Lorain, Ohio, assignor to American Stove Company, St. Louis, Mo. Thermostatic fuel-regulating device for gas-ovens. No. 1,339,964; May 11; v. 274; p. 322.
Meacham, Henry. (See Love, Samuel H., assignor.)
Mead, Ezra B., Ottumwa, Iowa. Boring-machine attachment. No. 1,345,455; July 6; v. 276; p. 25.
Mead, Francis. (See Duffies, A. S., and Mead.)
Mead, George A., assignor to The Ohio Brass Company, Mansfield, Ohio. Electrical connector. No. 1,336,475; Apr. 13; v. 273; p. 205.
Mead, George A., assignor to The Ohio Brass Company, Mansfield, Ohio. Uniting dissimilar metals. No. 1,341,337; May 25; v. 274; p. 711.
Mead, George A., assignor to The Ohio Brass Company, Mansfield, Ohio. Trolley-wire clamp. No. 1,354,503; Oct. 5; v. 279; p. 11.
Mead, George A., assignor to The Ohio Brass Company, Mansfield, Ohio. Making compound metallic articles. No. 1,359,719; Nov. 23; v. 280; p. 642.
Mead Manufacturing Company. (See McCoy, Fred H., assignor.)
Mead-Morrison Manufacturing Company, The. (See Williamson, C. S., and Hazard.)
Mead, Ruben J. (See Browne, Henry V., assignor.)
Mead, William C., Toronto, Ontario, Canada. Air-valve. No. 1,351,780; Sept. 7; v. 278; p. 12.
Meade, Alwyne, Blackheath, England. Furnace-grate. No. 1,333,812; Mar. 16; v. 272; p. 422.
Meade, J. F., Roosevelt, and E. V. Church, Garden City, N. Y., assignors, by mesne assignments, to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Airplane-fitting. No. 1,355,767; Oct. 12; v. 279; p. 811.
Meade, Joseph F. (See Gilmore, W. L., and Meade.)
Meadoff, Abraham S., assignor to Hudson Metal Bed Co., Inc., New York, N. Y. Auxiliary heating system. No. 1,341,144; May 25; v. 274; p. 674.
Meador, William C., assignor of one-half to E. H. Rolston, Chattanooga, Tenn. Indicator. No. 1,346,758; July 13; v. 276; p. 844.
Meadowcroft, Charles W., Sr., assignor to Miller Lock Company, Philadelphia, Pa. Key-bearing for padlocks. No. 1,338,515; Apr. 27; v. 273; p. 737.
Meadowcroft, John R., Montreal, Quebec, Canada. Alarm-actuating apparatus. No. 1,338,146; Apr. 27; v. 273; p. 667.
Meadowcroft, John R., Montreal, Quebec, Canada. Alarm-actuating apparatus. No. 1,338,147; Apr. 27; v. 273; p. 667.
Meadows, Robert C., Pores Knob, N. C. Screen-shoe feed for corn and feed mills. No. 1,363,425; Dec. 28; v. 281; p. 620.
Meadows, Thomas C., New York, M. Hauber, Jr., West Haverstraw, and H. W. Charlton, New York, N. Y. Obtaining combined potassium from greensand. No. 1,327,164; Jan. 6; v. 270; p. 53.
Meads, Frederick, Toledo, Ohio. Clip-fastener for springs. No. 1,351,213; Aug. 31; v. 277; p. 833.
Meal, Philip J., Summit, N. J. Music-recorder. No. 1,351,432; Aug. 31; v. 277; p. 877.
Mealey, Robert C., and A. E. Puffer, Minneapolis, Minn. Milking-machine. No. 1,361,082; Dec. 7; v. 281; p. 20.
Meals, Casper D., Trenton, N. J., assignor to Reading Steel Casting Company, Reading, Pa. Lifting-clamp. No. 1,351,530; Aug. 31; v. 277; p. 897.
Meany, James M., Portland, Oreg. Bunk for logging-cars. No. 1,360,702; Nov. 23; v. 280; p. 699.
Mears, John W., Forest Hills, N. Y. Lubricant distributer and filter for internal-combustion engines. No. 1,352,298; Sept. 7; v. 278; p. 112.
Mears, Robert S., Arkansas City, Kans. Combination boiler and still. No. 1,339,470; May 11; v. 274; p. 228.
Mears, Robert S., Arkansas City, Kans. Distilling and heating apparatus. No. 1,358,091; Nov. 9; v. 280; p. 232.
Measuregraph Company, The. (See Christopher, Arthur B., assignor.)
Measuregraph Company, The. (See Hosch, Greene C., assignor.)
Measuregraph Company, The. (See Hosch, Walter E., assignor.)
Measuregraph Company, The. (See Scott, Lewis L., assignor.) (Reissue.)
Measuregraph Company, The. (See Turner, Douglas, assignor.)
Mecham, Adelbert, Edinburg, N. D. Trussed roof-arch. No. 1,346,229; July 13; v. 276; p. 239.
Mechanical Improvement Co. (See De Martino, Joseph, assignor.)
Mechanical Manufacturing Company, The. (See Keebler, Elmer, assignor.)
Mechanical Rubber Company, The. (See Cobb, Henry Z., assignor.)
Mechanical Rubber Company, The. (See Hopkins, Arthur T., assignor.)
Mechanical Rubber Company. (See Jamieson, Frank F., assignor.)
Mechanical Rubber Company, The. (See Kent, William J., assignor.)
Mechanical Rubber Company, The. (See Kinsley, Richard F., assignor.)
Mechanics Machine Company. (See Faust, L., and Anderson, assignors.)
Mechano Gear Shift Company. (See Richardson, B. E., and Lynn, assignors.)

Digitized by Google

Alphabetical list of patentees—Continued.

Mechano Gear Shaft Company. (See Richardson, Bayard E., assignor.)
Mechlin, Ernest F., Washington, D. C. Draft-rigging. No. 1,356,081; Oct. 19; v. 279; p. 413.
Meckay, John, *et al.* (See Akin, Delbert A., assignor.)
Meckert, Frederick A., and L. E. Bock, Philadelphia, Pa. Resilient, non-puncturable, and demountable tire. No. 1,347,585; July 27; v. 276; p. 623.
Mecking, Herman, New York, N. Y. End-gate for dumping-trucks. No. 1,360,772; Nov. 30; v. 280; p. 918.
Mecklenburg, Herman A., Gilby, N. D. Currycomb. No. 1,327,246; Jan. 6; v. 270; p. 69.
Meckling, Jonas J., Jr., Pittsburgh, Pa. Clothes-prop. No. 1,350,978; Aug. 24; v. 277; p. 724.
Mecky, A., Company. (See Ledig, R. G., and Papini, assignors.)
Mecky, A., Company. (See Ledig, Richard G., assignor.)
Mecky, A., Company. (See Papini, Antonio, assignor.)
Mecum, Francis M., Chico, Calif. Power-lift for crank-axle implements. No. 1,349,900; Aug. 17; v. 277; p. 470.
Medart, Fred, Manufacturing Company. (See Irion, Christian, assignor.)
Medart, Fred, Manufacturing Company. (See Medart, Philip S., assignor.)
Medart, Philip S., assignor to Fred Medart Manufacturing Company, St. Louis, Mo. Swing. No. 1,340,904; May 25; v. 274; p. 627.
Medart, Philip S., assignor to Fred Medart Manufacturing Company, St. Louis, Mo. Playground-swing. No. 1,345,385; July 6; v. 276; p. 11.
Medbery, Clinton A., San Antonio, Tex. Lock-washer. No. 1,342,559; June 8; v. 275; p. 238.
Medearis, Columbus L., Cedar Grove, La. Sterilizer. No. 1,362,258; Dec. 14; v. 281; p. 302.
Medén, Elof H., assignor to A. G. A. Railway Light and Signal Co., Inc., Elizabeth, N. J. Railway-crossing warning signal. No. 1,348,507; Aug. 3; v. 277; p. 73.
Medén, Elof H., assignor to A. G. A. Railway Light and Signal Co., Inc., Elizabeth, N. J. Railway signaling device. No. 1,348,508; Aug. 3; v. 277; p. 73.
Mediavilla, Leopoldo, and J. L. Canales, New York, N. Y. Boring-bar. No. 1,346,230; July 13; v. 276; p. 239.
Medley, Granville E., assignor of one-fourth to M. Dennis, and one-fourth to M. Dennis, Hopkinsville, Ky. Speed-change gear. No. 1,342,920; June 8; v. 275; p. 309.
Medley, Harry L., Los Angeles, Calif. Artificial bait. No. 1,341,618; May 25; v. 274; p. 765.
Medwatz, Anton, Allentown, Pa. Extinguishing attachment for lamp-burners. No. 1,347,749; July 27; v. 276; p. 657.
Medzela, Ludwik, Braddock. Self-setting mousetrap. No. 1,362,953; Dec. 21; v. 281; p. 488.
Mee, Charles, Rochester, N. Y. Spot-light mount. No. 1,363,426; Dec. 28; v. 281; p. 620.
Meed, James E., Palestine, W. Va. Ratchet bit-brace. No. 1,356,776; Oct. 26; v. 279; p. 597.
Meed, James E., Palestine, W. Va. Depth gage for fillister or rabbet planes. No. 1,358,969; Nov. 16; v. 280; p. 452.
Meehan, Paul A., New Castle, Pa., assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y. Car-mover for tunnel-kilns. No. 1,326,949; Jan. 6; v. 270; p. 13.
Meehan, Paul A., New Castle, Pa., assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y. Car for tunnel-kilns. No. 1,328,749; Jan. 20; v. 270; p. 448.
Meehan, Paul A., New Castle, Pa., assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y. Tunnel-kiln. No. 1,348,510; Aug. 3; v. 277; p. 73.
Meehan, Paul A., New Castle, Pa., assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y. Tunnel-kiln. No. 1,348,511; Aug. 3; v. 277; p. 74.
Meehan, Paul A., New Castle, Pa., assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y. Continuous tunnel-kiln. No. 1,355,407; Oct. 12; v. 279; p. 242.
Meek, Marcellus W., Chicago, Ill. Rack. No. 1,333,930; Mar. 16; v. 272; p. 444.
Meeker, Charles W. (See Hensley, Bird E., assignor.)
Meeks, Annie L., Gadsden, Ala. Automobile-tire. No. 1,352,375; Sept. 7; v. 278; p. 126.
Meeks, Mack O., Wildorado, Tex. Dirigible headlight mechanism. No. 1,351,299; Aug. 31; v. 277; p. 851.
Meeley, George G. (See Parkin, Henry, assignor.)
Meem, James C., assignor of one-half to F. L. Cranford, Brooklyn, N. Y. Tunnel and excavating. No. 1,338,030; Apr. 27; v. 273; p. 645.
Meem, James C., assignor of one-half to F. L. Cranford, Brooklyn, N. Y. Tunnel-lining. No. 1,350,556; Aug. 24; v. 277; p. 644.
Megaffin, Morton H., Edgewood, Iowa. Folding landing-gear for aeroplanes. No. 1,333,329; Mar. 9; v. 272; p. 270.
Meguerditchian, Hairabed M., Green Island, N. Y. Apparatus for raising sunken vessels. No. 1,337,250; Apr. 20; v. 273; p. 427.
Megular, Charles W., Sonora, Ky. Device for mixing and kneading amalgam from mercury and alloy. No. 1,329,843; Feb. 3; v. 271; p. 93.
Mehl, Charles, Omaha, Nebr. Tag-holder. No. 1,333,434; Mar. 9; v. 272; p. 290.
Mehlhaf, William, Sutton, Nebr. Fan. No. 1,330,547; Feb. 10; v. 271; p. 256.
Mehlhope, Clarence E., Winnetka, Ill. Gearing. No. 1,334,045; Mar. 16; v. 272; p. 466.
Mehlhorn, William M. (See Cromwell, J. C., and Mehlhorn.)
Mehlin, Charles, Fort Lee, N. J. Piano. No. 1,335,791; Apr. 6; v. 273; p. 17.
Mehring, William M., Keymar, Md. Portable cow-milker. No. 1,341,430; May 25; v. 274; p. 729.
Mehring, William M., Keymar, Md. Pulsator. No. 1,355,839; Oct. 19; v. 279; p. 366.
Mehta, Phirozeshaw M., Poona, India. Rifle. No. 1,346,329; July 13; v. 276; p. 260.
Meidell, Birger, Christiania, Norway. Transmitting device for micro oscillations. No. 1,335,592; Mar. 30; v. 272; p. 862.
Meider, Philip, Jr., Pittsburgh, Pa. Apparatus for feeding pulverized fuel. No. 1,328,750; Jan. 20; v. 270; p. 448.
Meier, Albert J., Glendale, Mo. Power-generating system. No. 1,352,616; Sept. 14; v. 278; p. 210.
Meier, Erling, Christiania, Norway. Roller-bearing. No. 1,328,179; Jan. 13; v. 270; p. 304.
Meier, Erling, Christiania, Norway. Holder for ball and roller bearings and the like. No. 1,329,720; Feb. 3; v. 271; p. 70.
Meier, George, San Francisco, Calif. Plumbing connection. No. 1,346,788; July 13; v. 276; p. 351.
Meier, Konrad, Winterthur, Switzerland. Radiator. No. 1,329,198; Jan. 27; v. 270; p. 562.
Meier, Wilhelm H. (See Smithback, N., and Meier.)
Meiler, John B., assignor to R. A. Percival, New York, N. Y. Valve-spring lifter. No. 1,354,412; Sept. 28; v. 278; p. 672.
Meigs, Curtis C., Philadelphia, Pa. Producing double superphosphate. No. 1,351,672; Aug. 31; v. 277; p. 925.
Meihuizen, Sijtse H., Veendam, Netherlands. Drying apparatus. No. 1,344,241; June 22; v. 275; p. 696.
Meilicke, Adolph H., Baring, Mo. Corn-binder attachment. No. 1,342,640; June 8; v. 275; p. 253.
Meinecke, Adolph K., and A. Wild, assignors to Meinecke Mfg. Co., Milwaukee, Wis. Carriage. No. 1,347,517; July 27; v. 276; p. 609.
Meinecke Mfg. Co. (See Meinecke, A. K., and Wild, assignors.)
Meischke-Smith, William, San Francisco, Calif., assignor to Shell Company of California. Evaporator. No. 1,327,247; Jan. 6; v. 270; p. 69.
Meischke-Smith, William, San Francisco, Calif. Ferro-concrete construction. No. 1,349,901; Aug. 17; v. 277; p. 470.
Meisenbach, Walter. (See Ricks and Meisenbach.)
Meissner, Edwin B. (See Nichols, Arthur L., assignor.)
Meister, Arthur. (See Bernhard, J., and Meister.)
Meisterknecht, Richard C., Allentown, Pa. Clothesline-pulley. No. 1,330,645; Feb. 10; v. 271; p. 274.
Meitner, Elemer, Brooklyn, N. Y. Astronomical instrument. No. 1,346,412; July 13; v. 276; p. 275.
Mekeel, E. S. (See Lara, Francisco, assignor.)
Melamid, Meilich, Freiburg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Treating hydrocarbons derived from gas-tar. No. 1,362,127; Dec. 14; v. 281; p. 277.
Melanowski, Leo, assignor to The Citizens Savings and Trust Company, operating trustee, Cleveland, Ohio. Power-transmitting mechanism. No. 1,342,687; June 8; v. 275; p. 262.
Melanson, Philip P., Moncton, New Brunswick, Canada. Roof-bracket. No. 1,340,492; May 18; v. 274; p. 479.
Melanson, Philip P., Moncton, New Brunswick, Canada. Stove. No. 1,342,921; June 8; v. 275; p. 310.
Melcher, Charles E., Chicago, Ill. Combined chair and wardrobe. No. 1,333,554; Mar. 9; v. 272; p. 313.
Melcher, Lee W., assignor to La Crosse Tractor Co., La Crosse, Wis. Lubrication for tractors. No. 1,334,647; Mar. 23; v. 272; p. 606.
Meldon, James J., *et al.* (See Mendell, Lester, assignor.)
Meldram, Minnie M., New York, N. Y. Doll and making same. No. 1,362,727; Dec. 21; v. 281; p. 445.
Meleg, Joseph, Beaver Falls, Pa. Resilient wheel. No. 1,353,175; Sept. 21; v. 278; p. 381.
Meletti, Adolph, Philadelphia, Pa. Bottle and jar holder. No. 1,358,970; Nov. 16; v. 280; p. 452.
Melind, Louis J., Chicago, Ill. Time-stamp. No. 1,355,989; Oct. 19; v. 279; p. 395.
Meling, Gustave R. (See Meling, Randolph and G. R.)
Meling, Randolph and G. R., Chicago, Ill. Binocular. No. 1,338,241; Apr. 27; v. 273; p. 685.
Melland, William. (See Nield, William H., assignor.)
Mellars, Frederick W., San Francisco, Calif. Adjustable wrench. No. 1,355,496; Oct. 12; v. 279; p. 260. Oct. 19; v. 279; p. 395.
Mellen, Grenville, Cranford, N. J. Method of and apparatus for casting hollow bars or tubes. No. 1,342,127; June 1; v. 275; p. 101.
Mellinger, Edward A., Chicago, Ill., assignor, by mesne assignments, to Automatic Electric Company. Telephone apparatus and system. No. 1,330,046; Feb. 3; v. 271; p. 131.

Digitized by Google

Mellinger, Edward A., assignor to Automatic Electric Company, Chicago, Ill. Telephone-exchange automatic switching system. No. 1,343,462; June 15; v. 275; p. 478.
Mellon, George H., Pittsburgh, Pa. Glass casket. No. 1,345,210; June 29; v. 275; p. 950.
Mellor, Arthur, Brignouse, England. Machine for dressing silk. No. 1,328,535; Jan. 20; v. 270; p. 409.
Mellor, Norman. (See Gadke, William, assignor.)
Mellor, Stanley C. (See Shearer, John A., assignor.)
Mellor, Tom, Brandon, Manitoba, Canada. Blackboard. No. 1,344,920 June 29; v. 275; p. 894.
Melnichuk, Efrem, Chester, Conn. Transmission for bicycles. No. 1,334,108; Mar. 16; v. 272; p. 478.
Melrose, George C., Redondo Beach, and H. W. Melrose, Glendale, Calif. Silent railway-crossing. No. 1,337,527; Apr. 20; v. 273; p. 480.
Melrose, Herman W. (See Melrose, George C. and H. W.)
Melson, George A., *et al.* (See Witt, Peter S., assignor.)
Melton, Fristo A. (See Thompson, J. E., and Melton.)
Melton, George L., Pasadena, Calif. Nut-lock. No. 1,358,690; Nov. 9; v. 280; p. 352.
Melton, Jesse E., Almont, N. D. Calendar. No. 1,363,427; Dec. 28; v. 281; p. 620.
Melton, Max E., Washington, D. C., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,333,931; Mar. 16; v. 272; p. 444.
Melville, David G. (See Thewlis, V. P., Melville, and Taylor.)
Melvin, Albert L., Detroit, Mich. Anchor-post. No. 1,347,865; July 27; v. 276; p. 679.
Memoli, Alberto, Brooklyn, N. Y. Sewing-machine attachment. No. 1,332,054; Feb. 24; v. 271; p. 628.
Menchen, Joseph, assignor to Vacuum Record Lifter, Ltd., New York, N. Y. Record-lifter. No. 1,347,548; July 27; v. 276; p. 616.
Menco-Elma Syndicate Limited. (See Pollard, George, assignor.)
Mendel, Henry L., assignor of one-fourth to K. M. Langley, Baltimore, Md. Combination cooking device. No. 1,351,921; Sept. 7; v. 278; p. 42.
Mendel, Michael, Middle Village, N. Y. Square and miter attachment for saws. No. 1,338,188; Apr. 27; v. 273; p. 675.
Mendell, Ira L., Elkhart, Kans. Harness-ring. No. 1,333,555; Mar. 9; v. 272; p. 313.
Mendell, Lester, Brooklyn, assignor to L. Barnum and J. J. Meldon, New York, N. Y. Boiler plant. No. 1,334,548; Mar. 23; v. 272; p. 607.
Mendelsohn, Felix. (See Henius, Max, assignor.)
Mendelson, Aaron, Brooklyn, N. Y. Cigarette-box. No. 1,333,989; Mar. 16; v. 272; p. 455.
Mendenhall, John J., Clearwater, Fla. Safety-envelop. No. 1,336,646; Apr. 13; v. 273; p. 237.
Mendenhall, John J., Raiford, Fla. Valve for chambered heat-insulating walls. No. 1,337,611; Apr. 20; v. 273; p. 496.
Mendenhall, W. R., East Orange, and N. Tennent, Atlantic City, N. J. Cleaning-brush. No. 1,360,307; Nov. 30; v. 280; p. 827.
Mendez, Arsenio F., Camajuani, Cuba. Liquid polish. No. 1,352,015. Sept. 7; v. 278; p. 59.
Meneely, Samuel J., Newburgh, N. Y. Windshield for automobiles. No. 1,347,752; July 27; v. 276; p. 657.
Menefee, Charles E., Norwood, Ohio. Vehicle-spring lubricator. No. 1,331,962; Feb. 24; v. 271; p. 611.
Mengel Box Company. (See Sliger, Oscar, assignor.)
Mengel, William R., Chicago, Ill. Stereopticon. No. 1,342,561; June 8; v. 275; p. 239.
Mengel, William R., assignor to Autopticon Company, Chicago, Ill. Stereopticon. No. 1,342,560; June 8; v. 275; p. 238.
Mengel, William R., assignor to Autopticon Company, Chicago, Ill. Stereopticon. No. 1,355,096; Oct. 5; v. 279; p. 129.
Menkhaus, John H., Cincinnati, Ohio. Squeegee. No. 1,351,862; Sept. 7; v. 278; p. 30.
Menkin, Max, New York, N. Y. Button and making same. No. 1,329,791; Feb. 3; v. 271; p. 88.
Menkin, Solomon, New York, N. Y. Die-shifter. No. 1,349,974; Aug. 17; v. 277; p. 484.
Mennen, Antone, Milwaukee, Wis. Railway-crossing signal. No. 1,336,913; Apr. 13; v. 273; p. 289.
Mennie, Robert S., Chicago, Ill., assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt. (Reissue.) No. 14,796; Jan. 27; v. 270; p. 590.
Mennie, Robert S., Chicago, Ill., assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,354,620; Oct. 5; v. 279; p. 35.
Mennie, Robert S., Chicago, Ill., assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt. No. 1,359,819; Nov. 23; v. 280; p. 663.
Menningen, Adolph C., assignor of one-half to Gerlinger Steel Casting Co., West Allis, Wis. Caterpillar-tractor device. No. 1,331,869; Feb. 24; v. 271; p. 594.
Menns, Walter K., Chelsea, assignor to Boston Clock Company, Boston, Mass. Stem winding and setting clock. No. 1,331,163; Feb. 17; v. 271; p. 440.
Menns, Walter K., Chelsea, Mass., assignor to Boston Clock Company, Boston, Mass. Recording-timepiece. No. 1,354,674; Oct. 5; v. 279; p. 46.
Menns, Walter K., Chelsea, assignor to Boston Clock Company, Boston, Mass. Time-controlling mechanism. No. 1,360,308; Nov. 30; v. 280; p. 827.
Menon, Vadakkath R., Singapore, Straits Settlements. Fluid-pressure mortar and the like. No. 1,335,448; Mar. 30; v. 272; p. 836.
Mensch, Samuel H. (See Schweyer, Henry A., assignor.)
Mentzer, Claude E., Des Moines, assignor of three sixteenths to H. H. Searle, one-eighth to F. W. Miller, one-eighth to J. F. Griffin, one-eighth to E. A. Lewis, and one-eighth to A. T. Wallace, Des Moines, and one-eighth to M. M. Head, Jefferson, Iowa. Lock device for gear-shift levers. No. 1,344,554; June 22; v. 275; p. 759.
Mentzer, John P., Chicago, Ill. Water-color-paint outfits. No. 1,349,217; Aug. 10; v. 277; p. 263.
Menzies, Robert C., Amsterdam, N. Y. Autosled. No. 1,348,436; Aug. 3; v. 277; p. 60.
Mepsted, Ernest, Pentonville, London, England. Locking means for joint-pins, hinge-pins, coupling-pins, and the like. No. 1,329,131; Jan. 27; v. 270; p. 550.
Mercer, Alpheus C., Wilkinsburg borough, Pa. Snap-fastener. No. 1,335,449; Mar. 30; v. 272; p. 836.
Mercer, Henry H., assignor to Sullivan Machinery Company, Claremont, N. H. Valve-controlling mechanism. No. 1,355,768; Oct. 12; v. 279; p. 312.
Mercer, Henry H., assignor to Sullivan Machinery Company, Claremont, N. H. Channeler. No. 1,363,004; Dec. 21; v. 281; p. 498.
Mercer Tire Company. (See Dech, Henry, assignor.)
Mercier, Amédée. (See Richardson, G. A., and Mercier.)
Mercier, Daniel, Annonay, Ardèche, France. Machine for treating hides and skins. No. 1,347,866; July 27; v. 276; p. 679.
Mercier, Leonidas J. (See Martel, E. A., and Mercier.)
Mercury Body Corporation. (See McCormick, Charles E., assignor.)
Meredith, Jaquelin M., Jr., Norfolk, Va. Wheel-rim. No. 1,362,433; Dec. 14; v. 281; p. 335.
Meredith, John. (See Peterson, J. M., and Meredith.)
Meredith, John D., Wichita Falls, Tex. Liquid-measuring device. No. 1,341,189; May 25; v. 274; p. 683.
Meredith-Jones, H., New York, N. Y. Safety centrifugal percussion base-fuse. No. 1,336,701; Apr. 13; v. 273; p. 249.
Meredith, Lawrence J., Rupert, Idaho. Tire. No. 1,363,743; Dec. 28; v. 281; p. 682.
Meredith, Oscar G., East Goshen township, Chester county, assignor of one-half to Harry F. Taylor, West Chester, Pa. Animal-trap. No. 1,359,820; Nov. 23; v. 280; p. 663.
Meredith, Thomas D., London, England. Clip for stopping leakage in damaged pipes. No. 1,343,463; June 15; v. 275; p. 478.
Meredith, W. C., and W. C. Willis, assignors of one-third to R. H. White, Atlanta, Ga. Boring-tool. No. 1,352,825; Sept. 14; v. 278; p. 252.
Merendino, Domenico, New Orleans, La. Connector for vehicle direction-indicators. No. 1,362,170; Dec. 14; v. 281; p. 284.
Merey, Julius, assignor of one-half to D. P. Teter, Chicago, Ill. Rotary stamping device. No. 1,356,386; Oct. 19; v. 279; p. 474.
Merfeld, Leo J., Cascade, Iowa. Kitchen utensil. No. 1,347,112; July 20; v. 276; p. 473.
Mergenthaler, Eugene G., deceased, Baltimore, Md.; Safe Deposit and Trust Company of Baltimore and H. C. Mergenthaler, executors, assignors of one-half to Deposit and Trust Company of Baltimore, trustee, and one-half to H. C. Mergenthaler. Type and type-distributing mechanism. No. 1,359,518; Nov. 23; v. 280; p. 603.
Mergenthaler, Herman C., *et al.*, executors. (See Mergenthaler, Eugene G.)
Mergenthaler Linotype Company. (See Kennedy, David S., assignor.)
Mergenthaler Linotype Company. (See Rogers, John R., assignor.)
Merigone, Giacinto. (See Balestrino, L., and Merigone.)
Mergott, J. E., Company, The. (See Fuller, Franz A., assignor.)
Meriam, Joseph B., and H. W. Price, Cleveland, Ohio. Combined distributer and heater for intake-manifolds. No. 1,361,477; Dec. 7; v. 281; p. 101.
Merkel, Arthur E., *et al.* (See Stringer, Melvin, assignor.)
Merkel, Herman, East Orange, and J. Buecher, Newark, N. J. Pin-receiving tab for garments. No. 1,353,930; Sept. 28; v. 278; p. 574.
Merker Interchangeable Tooth Corporation. (See Merker, Melvin E., assignor.)
Merker, Melvin E., assignor to Merker Interchangeable Tooth Corporation, New York, N. Y. Artificial tooth. No. 1,341,813; June 1; v. 275; p. 40.
Merkle, Harry J., Woodside, N. Y. Illuminating-holder for automobile license-tags. No. 1,363,893; Dec. 28; v. 281; p. 711.
Mermelstein, Julius, Philadelphia, Pa. Clothes-suspending apparatus. No. 1,329,541; Feb. 3; v. 271; p. 37.
Merrell, Charles F., Jasper, Mo., and E. E. Hall, Bayard, Kans. Cattle-flytrap. No. 1,340,071; May 11; v. 274; p. 342.

Digitized by Google

Alphabetical list of patentees—Continued.

Merrell, Irving S., Syracuse, N. Y. Communication-controlling device. No. 1,340,552; May 18; v. 274; p. 490.
Merrell, Irving S., assignor to Merrell-Soule Company, Syracuse, N. Y. Condensing apparatus. No. 1,356,082; Oct. 19; v. 279; p. 414.
Merrell-Soule Company. (See Fleming, Raphael S., assignor.)
Merrell-Soule Company. (See Merrell, Irving S., assignor.)
Merriam, Arthur L. (See Gehl, M. L., Merriam, and Gehl.)
Merriam, Cyrus B., Detroit, Mich. Fastener. No. 1,337,938; Apr. 20; v. 273; p. 558.
Merriam, J. G., Company. (See Merriam, Joseph G., assignor.)
Merriam, Joseph G., assignor to J. G. Merriam Company, Meriden, Conn. Turntable for phonographs. No. 1,347,113; July 20; v. 276; p. 473.
Merrick, Anson A. (See Parsons, John H.)
Merrick, Frank W., *et al.* (See Presby, Leroy I., assignor.)
Merrick, Frank W., Boston, Mass. Leather-edge-finishing machine and method therefor. No. 1,339,776; May 11; v. 274; p. 286.
Merrick, Frank W., Boston, Mass. Thread-controlling devices for sewing-machines. No. 1,344,424; June 22; v. 275; p. 733.
Merrill, Albert A., Los Angeles, Calif. Staggered convergent biplane. No. 1,355,990; Oct. 19; v. 279; p. 395.
Merrill, Alfred P., San Diego, Calif. Rotary shaft and coupling for electric dental engines. No. 1,328,095; Jan. 13; v. 270; p. 288.
Merrill Company, The. (See Kuryla, Michael H., assignor.)
Merrill Company, The. (See Mills, Louis D., assignor.)
Merrill, Edward H., assignor to A. C. Lawrence Leather Company, Peabody, Mass. Truck for transporting leather-frames and the like. No. 1,330,891; Feb. 17; v. 271; p. 389.
Merrill, Frank H., deceased, Hennepin county; G. E. Merrill, administratrix, assignor to Veerac Company, Minneapolis, Minn. Fire-screen for explosive-engines. No. 1,363,801; Dec. 28; v. 281; p. 693.
Merrill, George E., Salem, Mass. Window-ventilator attachment. No. 1,342,222; June 1; v. 275; p. 120.
Merrill, George S. (See Blair, F. P., Dows, and Merrill.)
Merrill, Grace E., administratrix. (See Merrill, Frank H.)
Merrill, Harry E. (See Rogers, W. D., and Merrill.)
Merrill, William B. (See Somes, Walter F., assignor.)
Merrill, William E. (See Hamilton, Thomas S., assignor.)
Merriman, Grove R., assignor to J. R. Vander Putten, Akron, Ohio. Brush for carpet-sweepers. No. 1,350,664; Aug. 24; v. 277; p. 665.
Merriman, Thurston C., New Haven, Conn., assignor to Winchester Repeating Arms Co. Surface-colored article of copper alloy. No. 1,327,400; Jan. 6; v. 270; p. 97.
Merriman, Thurston C., New Haven, Conn., assignor to Winchester Repeating Arms Co. Surface-coloring articles of copper alloy. No. 1,327,401; Jan. 6; v. 270; p. 97.
Merritt, Arthur A., Worcester, Mass., assignor to Willcox & Gibbs Sewing Machine Co., New York, N. Y. Adjustable shaft-coupling. No. 1,363,140; Dec. 21; v. 281; p. 526.
Merritt, Frank W., assignor to H. W. Coulter, trustee, Duluth, Minn. Radiator. No. 1,327,165; Jan. 6; v. 270; p. 53.
Merritt, Labe, Creedmore, N. C. Valve-grinder. No. 1,335,979; Apr. 6; v. 273; p. 52.
Merritt, Matthew M., South Middleton, Mass. Electrolytic method, apparatus and product. No. 1,363,186; Dec. 21; v. 281; p. 534.
Merritt, Matthew M., South Middleton, assignor to Copper Products Company, Boston, Mass. Electrolytic apparatus and method. No. 1,335,174; Mar. 30; v. 272; p. 785.
Merritt, Matthew M., South Middleton, assignor to Copper Products Company, Boston, Mass. Electrolytic apparatus and method. No. 1,335,175; Mar. 30; v. 272; p. 785.
Merritt, Matthew M., South Middleton, assignor to Copper Products Company, Boston, Mass. Electrolytic apparatus and method. No. 1,335,176; Mar. 30; v. 272; p. 786.
Merritt, Matthew M., South Middleton, assignor to Copper Products Company, Boston, Mass. Electrolytic method and apparatus. No. 1,335,177; Mar. 30; v. 272; p. 786.
Merritt, Matthew M., South Middleton, assignor to Copper Products Company, Boston, Mass. Electrolytic process and product. No. 1,335,846; Apr. 6; v. 273; p. 26.
Merritt, Orrin L., and W. P. Jones, Stockton, Calif. Steam-conserver for cannery cookers and exhausts. No. 1,344,809; June 29; v. 275; p. 874.
Merritt, Robert W., New York, N. Y. Garter. No. 1,340,455; May 18; v. 274; p. 472.
Merrow, Joseph M., assignor to The Merrow Machine Company, Hartford, Conn. Lining for packing-boxes. No. 1,340,968; May 25; v. 274; p. 640.
Merrow Machine Company, The. (See Merrow, Joseph M., assignor.)
Merry, Whiting P., Sharpsville, Pa. Heater. No. 1,328,246; Jan. 13; v. 270; p. 318.
Mersch, Bernard H., Covington, Ky. Demountable-rim breaker. No. 1,350,418; Aug. 24; v. 277; p. 617.
Mersfelder, Harry G., Cincinnati, Ohio. Combination gas and coal stove. No. 1,355,991; Oct. 19; v. 279; p. 395.
Mersfelder, William L. (See Barbour, W. T., and Mersfelder.)
Mersfelder, William L., assignor to Detroit Stove Works, Detroit, Mich. Automatic damper control. No. 1,339,571; May 11; v. 274; p. 247.
Mershon, Ralph D., New York, N. Y. Cutting sheet metal. No. 1,332,445; Mar. 2; v. 272; p. 52.
Mershon, Ralph D., New York, N. Y., and P. A. Ross, Norwalk, Conn.; said Ross assignor to said Mershon. Welding condenser parts. No. 1,350,557; Aug. 24; v. 277; p. 644.
Mersman, Clarence A., Hubbard, Iowa. Fruit-jar vise. No. 1,353,058; Sept. 14; v. 278; p. 298.
Mersman, Joseph, Ottawa, Ohio. Sound-amplifier. No. 1,344,307; June 22; v. 275; p. 710.
Mertens, Louis R., assignor to C. J. Miller, Philadelphia, Pa. Steam-trap. No. 1,362,954; Dec. 21; v. 281; p. 488.
Mertens, Paul, Newark, and H. Backert, Irvington, N. J. Handle for knives, &c. No. 1,335,847; Apr. 6; v. 273; p. 27.
Mertz, Emil, Tygh Valley, Oreg. Folding crate. No. 1,352,299; Sept. 7; v. 278; p. 112.
Mertzanoff, Andre M., Buffalo, N. Y., assignor to American Radiator Company, Chicago, Ill. Combined boiler and radiator. No. 1,334,667; Mar. 23; v. 272; p. 628.
Merwin, George M., Berwyn, Ill., assignor, by mesne assignments, to International Harvester Company. Ensilage-cutter. No. 1,327,346; Jan. 6; v. 270; p. 86.
Merwin, Joseph B., Lincoln, Nebr. Signal for motor-vehicles. No. 1,351,260; Aug. 31; v. 277; p. 842.
Mesker, Bernard T., and C. E. Smith, assignors to Mesker Brothers Iron Company, St. Louis, Mo. Metallic window construction. No. 1,327,441; Jan. 6; v. 270; p. 104.
Mesker Brothers Iron Company. (See Mesker, Frank, assignor.)
Mesker Brothers Iron Company. (See Mesker and Smith, assignors.)
Mesker, Frank, assignor to Mesker Brothers Iron Company, St. Louis, Mo. Metallic casket. No. 1,327,442; Jan. 6; v. 270; p. 104.
Messenger, Isaiah L., McGraw, N. Y. Screw driver and placer. No. 1,350,558; Aug. 24; v. 277; p. 644.
Messenger, Jack E., Des Moines, Iowa. Petcock-opener. No. 1,361,888; Dec. 14; v. 281; p. 228.
Messenger, Lee F., Detroit, Mich., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,362,338; Dec. 14; v. 281; p. 317.
Messenger, Lee F., Detroit, Mich., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,363,197; Dec. 21; v. 281; p. 536.
Messer, George F., Aberdeen, Wash. Dirigible headlight. No. 1,343,822; June 15; v. 275; p. 550.
Messerschmitt, Anton, Stolberg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Treating minerals containing potassium. No. 1,344,705; June 29; v. 275; p. 853.
Messersmith, Edgar C., Buffalo, N. Y. Tripod for mounting guns, &c. No. 1,331,116; Feb. 17; v. 271; p. 432.
Messinger, Joseph H., and Alexander E. Tetu, Ottawa, Ontario, Canada. Thread tension gage. No. 1,359,449; Nov. 16; v. 280; p. 544.
Messinger, William, Philadelphia, Pa., assignor to Philadelphia Metal Drying Form Company, New Castle, Del. Garment-drying apparatus. No. 1,338,031; Apr. 27; v. 273; p. 645.
Messick, Turner B. (See Hyman, H. R., and Messick.)
Messiter, Edwin H., Brooklyn, assignor to Electric Weighing Company, New York, N. Y. Conveyer-feed control. No. 1,344,768; June 29; v. 275; p. 866.
Messlein, Michael A. (See Schmidt, Fred, assignor.)
Messler, Eugene L. (See Baehr, G., and Messler.)
Mester, Robert H., Webster Groves, Mo. Wrapper. No. 1,329,056; Jan. 27; v. 270; p. 536.
Meston, Archibald F., assignor to Research Corporation, New York, N. Y. Downdraft wet precipitator. No. 1,329,844; Feb. 3; v. 271; p. 94.
Meston, Archibald F., assignor to Research Corporation, New York, N. Y. Device for protecting insulators in electric precipitators. No. 1,332,510; Mar. 2; v. 272; p. 65.
Meston, Archibald F., assignor to Research Corporation, New York, N. Y. Continuous electrical mechanical filter. No. 1,334,160; Mar. 16; v. 272; p. 488.
Meston, Archibald F., assignor to Research Corporation, New York, N. Y. Means for removing deposits from electrodes. No. 1,339,471; May 11; v. 274; p. 228.
Meston, Archibald F., assignor to Research Corporation, New York, N. Y. Apparatus for precipitating suspended particles from gases. No. 1,357,886; Nov. 2; v. 280; p. 131.
Mészáros, János, East Millsboro, Pa. Rail-joint. No. 1,331,447; Feb. 17; v. 271; p. 493.
Metal Saw & Machine Co. (See Napier, Charles, assignor.)
Metal Separation Company, The. (See Stockton and Goddard, assignors.)

Digitized by Google

Metal & Thermit Corporation. (See Deppeler, John H., assignor.)
Metallite Company, The. (See Clapp, Albert L., assignor.)
Metallograph Corporation, The. (See Erdoes, J., and Sas, assignors.)
Metallograph Corporation. (See Warga, Kalman, assignor.)
Metallurgical Company of America. (See Haley, Dennis F., assignor.)
Metals Extraction Corporation, The. (See Field, Samuel, assignor.)
Metals Extraction Corporation, The. (See Sulman, H. L., and Field, assignors.)
Metals Extraction Corporation Limited. (See Petersson, Elias F., assignor.)
Metals Recovery Co. (See Terry, Joseph T., Jr., assignor.)
Metals Recovery Company. (See Bacon, Raymond F., assignor.)
Metals Recovery Company. (See Callow, J. M., and Corliss, assignors.)
Metals Recovery Company, The. (See Thompson, J. W., and Terry, assignors.)
Metals Recovery Company. (See Thompson, John W., assignor.)
Metcalf, Charles, Streator, Ill. Flushing apparatus. No. 1,333,269; Mar. 9; v. 272; p. 259
Metcalf, Fred F., Chicago, Ill. Necktie-stretcher. No. 1,346,552; July 13; v. 276; p. 304.
Metcalf, George A., Malden, Mass. Internal-combustion motor. No. 1,355,158; Oct. 12; v. 279; p. 193.
Metcalf, Levi. (See Liles, William P., assignor.)
Metcalf, Maurice A. (See Sabbag, Litfallah G., assignor.)
Metcalf, William F., *et al.* (See Holmes, Anderson M., assignor.)
Metcalfe, James and J. C., Marple, and R. D. Metcalfe, Romiley, England. Injector. No. 1,329,465; Feb. 3; v. 271; p. 23.
Metcalfe, James, J. C. Metcalfe, Marple, and R. D. Metcalfe, Romiley, England. Injector. No. 1,342,128; June 1; v. 275; p. 101.
Metcalfe, James C. (See Metcalfe, James, J. C., and R. D.)
Metcalfe, Richard D. (See Metcalfe, James, J. C., and R. D.)
Meteor Motor Company. (See Pflaume, Julius R., assignor.)
Metesser, Lewis, New Orleans, La. Furnace. No. 1,328,883; Jan. 27; v. 270; p. 503.
Metesser, Lewis, New Orleans, La. Valve. No. 1,345,686; July 6; v. 276; p. 70.
Meth, Max, assignor to The Lancaster Lens Company, Lancaster, Ohio. Manufacturing ruby-glass. No. 1,344,141; June 22; v. 275; p. 677.
Metham, Henry H. (See Muckenfuss, Charles, assignor.)
Metropolitan Sewing Machine Corporation. (See Weis, Albert H., assignor.)
Metropolitan Sewing Machine Corporation. (See Weis, John P., assignor.)
Metsker, Charles W., Cleveland, Ohio. Stock-stop. No. 1,355,992; Oct. 19; v. 279; p. 395.
Metten, John F., and J. C. Shaw, Philadelphia, Pa. Marine steam-turbine arrangement. No. 1,342,177; June 1; v. 275; p. 111.
Mettler, Christoph, Sr., Menno, S. D. Grain-cleaner. No. 1,356,777; Oct. 26; v. 279; p. 597.
Metz, Frederick A., Meadville, Pa. Train-order delivery. No. 1,333,435; Mar. 9; v. 272; p. 290.
Metz, Herman A. (See Riethmüller, Richard H., assignor.)
Metz, William H., McCracken, Kans. Spring-wheel. No. 1,331,716; Feb. 24; v. 271; p. 564.
Metzger, Floyd J., New York, N. Y. Separation of lanolin from crude wool-grease and the like. No. 1,330,210; Feb. 10; v. 271; p. 193.
Metzger, Floyd J., assignor to Air Reduction Company, New York, N. Y. Separating alkali cyanid from alkali carbonate. No. 1,337,019; Apr. 13; v. 273; p. 309.
Metzger, Floyd J., assignor to Air Reduction Company, Inc., New York, N. Y. Production of ammonia. No. 1,354,574; Oct. 5; v. 279; p. 25.
Metzger, Floyd J., assignor to Air Reduction Company, Inc., New York, N. Y. Apparatus for manufacture of alkali-metal cyanid. No. 1,358,014; Nov. 9; v. 280; p. 217.
Metzger, Floyd J., assignor to Air Reduction Company, New York, N. Y. Apparatus for manufacturing alkili cyanid. No. 1,358,383; Nov. 9; v. 280; p. 290.
Metzger, Floyd J., assignor to Air Reduction Company, Inc., New York, N. Y. Furnace reaction-chamber and preventing destruction thereof. No. 1,363,428; Dec. 28; v. 281; p. 620.
Metzger, Fritz L. (See Richardson, J. G., and Metzger.)
Metzger, Harry C., assignor of one-half to M. A. Davis, Los Angeles, Calif. Wall-caliper. No. 1,356,214; Oct. 19; v. 279; p. 441.
Metzger, Johann. (See Züst, P., and Metzger.)
Metzger, Modeste A., Chicago, Ill. Door. No. 1,353,176; Sept. 21; v. 278; p. 381.
Metzger, Myer, Chicago, Ill. Display-holder for tires. No. 1,354,774; Oct. 5; v. 279; p. 65.
Metzger, Sylvester G., Delphos, Ohio. Power device. No. 1,340,620; May 18; v. 274; p. 503.
Metzger, William J., assignor to The National Malleable Castings Company, Cleveland, Ohio. Car-coupling. No. 1,363,479; Dec. 28; v. 281; p. 631.
Metzler, Jacob P., Geneva, N. Y. Occupant-propelled vehicle. No. 1,348,888; Aug. 10; v. 277; p. 198.
Metzler, Paul. (See Carbone, T. L., and Metzler.)
Metzler, William M., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Core-stripper for pneumatic tires. No. 1,363,802; Dec. 28; v. 281; p. 693.
Meunier, Pierre P., Lyon, France. Heating device by electricity. No. 1,333,724; Mar. 16; v. 272; p. 406.
Meurer, Charles A., Terrace Park, Ohio. Toy. No. 1,329,623; Feb. 3; v. 271; p. 52.
Meushaw, Thomas H., and C. J. Diez, Baltimore, Md. Fire-plug. No. 1,351,781; Sept. 7; v. 278; p. 13.
Meutsch, Charles C., Chicago, Ill. Mattress and upholstering construction. No. 1,333,031; Mar. 9; v. 272; p. 215.
Meutsch, Charles C., Chicago, Ill., and E. A. Christoph, Buffalo, N. Y. Cushion-spring-assembling machine. No. 1,348,654; Aug. 3; v. 277; p. 102.
Meves, Charles W., and F. G. Herrmann, Sheboygan, Wis. Bed-davenport. No. 1,349,620; Aug. 17; v. 277; p. 416.
Meves, Charles W., and F. G. Herrmann, assignors to Sheboygan Couch Company, Sheboygan, Wis. Bed-davenport. No. 1,349,621; Aug. 17; v. 277; p. 416.
Meves, Charles W., and F. G. Herrmann, assignors to Sheboygan Couch Company, Sheboygan, Wis. Bed-davenport. No. 1,349,622; Aug. 17; v. 277; p. 416.
Mexican Sinclair Petroleum Corporation. (See Taber, George H., Jr., assignor.)
Meyer, A. F., Mfg. Co. (See Getz, Benjamin E., assignor.)
Meyer, Adolph E., Webster Groves, assignor to Textile Products Manufacturing Company, St. Louis, Mo. Cotton-picker's sack. No. 1,347,704; July 27; v. 276; p. 647.
Meyer, Albert R., Sacramento, Calif. Spark-plug. No. 1,346,759; July 13; v. 276; p. 345.
Meyer, August, Wellston, assignor to Handlan-Buck Manufacturing Company, St. Louis, Mo. Signal-lamp. No. 1,351,113; Aug. 31; v. 277; p. 813.
Meyer, August J., Chicago, Ill. Tire. No. 1,342,562; June 8; v. 275; p. 239.
Meyer, August J., Chicago, Ill. Transmission-gearing. No. 1,356,728; Oct. 26; v. 279; p. 587.
Meyer, Bernhard H., New Haven, Conn. Drapery-clip. No. 1,345,868; July 6; v. 276; p. 106.
Meyer, Charles F., Bridgeport, Conn. Spark-plug. No. 1,344,954; June 29; v. 275; p. 900.
Meyer, Erwin E. A. G., Detroit, Mich., assignor to Morgan & Wright. Treating fabric. No. 1,344,645; June 29; v. 275; p. 842.
Meyer, Erwin E. A. G., Detroit, Mich., assignor to Morgan & Wright. Vulcanizing rubber. No. 1,350,824; Aug. 24; v. 277; p. 696.
Meyer, Ferdinand Moritz, Saarbrucken, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Hydraulic ingredient and making same. No. 1,343,929; June 22; v. 275; p. 636.
Meyer, Friedrich W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Regenerating system. No. 1,339,903; May 11; v. 274; p. 310.
Meyer, Friedrich W., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Controlling and regulating apparatus. No. 1,353,815; Sept. 21; v. 278; p. 506.
Meyer, Geo. J., Manufacturing Company. (See Meyer, George J., assignor.)
Meyer, George J., assignor to Geo. J. Meyer Manufacturing Company, Milwaukee, Wis. Loader for bottle-washers. No. 1,345,617; July 6; v. 276; p. 57.
Meyer, George L., Milwaukee, Wis. Gas-engine. No. 1,342,922; June 8; v. 275; p. 310.
Meyer, George L., Milwaukee, Wis. Gas-engine ignition. No. 1,439,846; Aug. 17; v. 277; p. 459.
Meyer, George T., *et al.* (See Milligan, Rockwell M., assignor.)
Meyer, George U. (See Lederer, S. L., and Meyer.)
Meyer, Gottfried, Zurich, Switzerland. Apparatus for joining the movable parts with the stationary parts of steam, air, or other conduits, particularly of railway vehicles. No. 1,356,215; Oct. 19; v. 279; p. 441.
Meyer, Harry R., Wilkinsburg, Pa. assignor to Westinghouse Electric & Manufacturing Company. Controller. No. 1,355,497; Oct. 12; v. 279; p. 260.
Meyer, Henry H., Red Wing, Minn. Air-suction regulator. No. 1,344,921; June 29; v. 275; p. 895.
Meyer, Henry H., Red Wing, Minn. Grain-separator. No. 1,353,059; Sept. 14; v. 278; p. 298.
Meyer, John E., Shepherd, Mich. Farm-tractor. No. 1,343,464; June 15; v. 275; p. 479.
Meyer, John J. R., Lake, Wis. Wire-cutter for rifles. No. 1,333,556; Mar. 9; v. 272; p. 313.
Meyer, Julius A., St. Louis, Mo. Support for drummers' traps. No. 1,330,814; Feb. 17; v. 271; p. 374.
Meyer, Louis, New York, N. Y. Printing-press. No. 1,359,720; Nov. 23; v. 280; p. 643.
Meyer, Maud C. (See Meyer, Robert C. H., assignor.)
Meyer, Nicolaas E. G. (See Schoute C., van Heyst, and Meyer.)
Meyer, Peter, Newark, N. J. Machine for making powder-puffs. No. 1,363,141; Dec. 21; v. 281; p. 525.
Meyer, Philip, Newark, N. J. Pipe-testing and leak-finding device. No. 1,340,176; May 18; v. 274; p. 420.
Meyer, Richard E., Detroit, Mich. Explosive-engine. No. 1,354,675; Oct. 5; v. 279; p. 46.

Digitized by Google

Alphabetical list of patentees—Continued.

Meyer, Robert, Mulheim-Ruhr, Germany, assignor, by mesne assignments, to Worthington Pump and Machinery Corporation, New York, N. Y. Automatic plate-valve. No. 1,341,145; May 25; v. 274; p. 674.
Meyer, Robert C. H., assignor of one-third to M. C. Meyer, Indianapolis, Ind. Explosion-engine fuel heater and vaporizer. No. 1,359,189; Nov. 16; v. 280; p. 492.
Meyer, Theodore, Birmingham, Ala., assignor of one-half to W. Amott, Salt Lake City, Utah. Automobile-tire. No. 1,341,380; May 25; v. 274; p. 720.
Meyer, Trygve E., Lombard, assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,351,531; Aug. 31; v. 277; p. 897.
Meyer, William, Rosedale, Kans. Vending-machine. No. 1,344,142; June 22; v. 275; p. 677.
Meyer, William, Chicago, Ill. Optical apparatus. No. 1,353,259; Sept. 21; v. 278; p. 396.
Meyer, William A. (See Wood and Meyer.)
Meyer, William C., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Wax-thread sewing-machine. No. 1,341,065; May 25; v. 274; p. 659.
Meyer, William C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Driving and stopping mechanism. No. 1,355,159; Oct. 12; v. 279; p. 193.
Meyer, William E. (See Sonderegger, Leo, assignor.)
Meyer, *née* Wolf, Lina, and R. Schiff, assignors to the Firm H. Hirschfeld Sen., Frankfort-on-the Main, Germany. Cooking apparatus. No. 1,341,960; June 1; v. 275; p. 68.
Meyercord, George R., Chicago, Ill. Composite booth, counter, and the like. No. 1,343,637; June 15; v. 275; p. 513.
Meyercord, George R., Chicago, Ill. Joint for vitreous material, marble or the like. No. 1,355,097; Oct. 5; v. 279; p. 129.
Meyerhofer, Albert F., Mannheim, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Manufacturing dense ware from bauxite. No. 1,350,825; Aug. 24; v. 277; p. 696.
Meyers, Albert W., Milwaukee, Wis. Tire-vulcanizing machine. No. 1,358,770; Nov. 16; v. 280; p. 412.
Meyers, Alfred M., Merriam, Kans. Plate-bending machine. No. 1,345,386; July 6; v. 276; p. 12.
Meyers, Alfred M., Merriam, Kans., assignor to The Kansas City Structural Steel Company, Kansas City, Mo. Bending-machine. No. 1,338,946; May 4; v. 274; p. 55.
Meyers, Charles E., Chicago, Ill. Device for operating furnace-doors. No. 1,336,476; Apr. 13; v. 273; p. 205.
Meyers, Frank, Laurel, Oreg. Compound implement. No. 1,339,405; May 11; v. 274; p. 215.
Meyers, George T., Swissvale, Pa. Glass or porcelain faced brick or block. No. 1,335,384; Mar. 30; v. 272; p. 824.
Meyers, George W., Rahway, N. J., assignor to National Penumatic Company, New York, N. Y. Combined propelling-motor and door-operating mechanism for cars. No. 1,336,477; Apr. 13; v. 273; p. 205.
Meyers, Henry J., Los Angeles, Calif. Folding bed. No. 1,352,909; Sept. 14; v. 278; p. 269.
Meyers, Samuel A., and C. F. Parker, San Francisco, Calif. Electric switch. No. 1,333,762; Mar. 16; v. 272; p. 413.
Meyfarth, John L., Chicago, Ill. Coin-controlled vending-machine. No. 1,345,499; July 6; v. 276; p. 34.
Meyner, Walter. (See McLean and Meyner.)
Meyson Manufacturing Company. (See Sonderegger, Leo, assignor.)
Mezzatesta, Gaspare, Hampton, Va. Carbureter. No. 1,328,180; Jan. 13; v. 270; p. 305.
Mica Condenser Company. (See Macpherson, Byron, assignor.)
Michael, Clement W., assignor to J. I. Case Plow Works, Racine, Wis. Gang-plow. No. 1,335,123; Mar. 30; v. 272; p. 776.
Michael, Joseph W., and E. L. Martin, Woodburn, Iowa; said Martin assignor to said Michael. Motor signal device. No. 1,359,088; Nov. 16; v. 280; p. 474.
Michaelis, George M., Wilmington, Calif. Automatic self striking and landing reel for commercial fishing. No. 1,360,429; Nov. 30; v. 280; p. 851.
Michal, Alexander, West Orange, N. J. Belt-stapling device. No. 1,350,826; Aug. 24; v. 277; p. 696.
Michalek, Frank, Chicago, Ill. Noodle-machine. No. 1,352,826; Sept. 14; v. 278; p. 253.
Michalek, Rudolph B., Newark, N. J. Toy gun. No. 1,338,458; Apr. 27; v. 273; p. 725.
Michalek, Rudolph B., Newark, N. J. Cinematograph. No. 1,350,374; Aug. 24; v. 277; p. 608.
Michalis, Clarence G. (See Constable, J. P., Michalis, and McGall.)
Michalovsky, Kapiton, Akron, Ohio. Inflatable garment. No. 1,342,054; June 1; v. 275; p. 86.
Michaud, Onesime E., St. Louis, Mo. Roller-bearing. No. 1,363,340; Dec. 28; v. 281; p. 604.
Micheau, Edward L., Baltimore, Md. Drawing-protractor. No. 1,342,129; June 1; v. 275; p. 102.
Michell, Philip A., New York, N. Y. Bag-lock. No. 1,331,778; Feb. 24; v. 271; p. 576.
Michels, Joseph J., Syracuse, N. Y. Railway-cab signal. No. 1,360,003; Nov. 23; v. 280; p. 699.
Michelsen, Hamilton, Miami, Fla. Refrigerating shipping-crate. No. 1,330,947; Feb. 17; v. 271; p. 400.
Michener, Elwood H., Woodlynne, assignor to Acme Staple Company, Camden, N. J. Stapling-machine. No. 1,363,744; Dec. 28; v. 281; p. 682.
Michener, Wayland D. (See Barron, W. L., and Michener.)
Michener, Wayland D., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Sewing-machine. No. 1,331,164; Feb. 17; v. 271; p. 441.
Michero, William A., Fort Worth, Tex. Automobile-tire. No. 1,358,566; Nov. 9; v. 280; p. 327.
Michigan Chemical Company. (See Molony, Stuart B., assignor.)
Michigan Lubricator Company. (See Corliss, Cullen D., assignor.)
Michigan Service Corporation. (See Snow, H. M., and Wales, assignors.)
Michna, George, Albany, N. Y. Sand-loading device. No. 1,346,460; July 13; v. 276; p. 286.
Michod, Charles L., Morgan Park, Ill. Storing vehicles. No. 1,347,960; July 27; v. 276; p. 697.
Michot, Georges, Dromara, Ireland, assignor to Fibre Corporation Limited, London, England. Scutching of flax and other fibrous materials. No. 1,331,659; Feb. 24; v. 271; p. 554.
Mick, Leslie P. (See Weiss, George, assignor.)
Mickelson, Algot E., Devlin, Ontario, Canada. Horseshoe. No. 1,343,874; June 15; v. 275; p. 561.
Mickelson, George A., Vancouver, British Columbia, Canada. Open-face gas-mask. No. 1,344,349; June 22; v. 275; p. 718.
Mickelson, George A., Vancouver, British Columbia, Canada. Sight-tube. No. 1,357,887; Nov. 2; v. 280; p. 131.
Mickey, Daniel W., Omaha, Nebr. Drag-saw. No. 1,329,671; Feb. 3; v. 271; p. 61.
Mickleson, Don A., New York, N. Y. Saw. No. 1,355,683; Oct. 12; v. 279; p. 295.
Micks, Ransom R. (See Kime, Benjamin J., assignor.)
Middlebrook, Leslie E., Hall, N. Y. Timer for automobiles. No. 1,349,523; Aug. 10; v. 277; p. 824.
Middlebrooks, James M., Birmingham, Ala. Actuator for traffic-signals. No. 1,339,660; May 11; v. 274; p. 265.
Middleton, Alfred S., assignor of one-half to W. M. Toole, Des Moines, Iowa. Spring-hub. No. 1,348,437; Aug. 3; v. 277; p. 60.
Middleton, Charles S., Blakely, Ga. Interest-calculator. No. 1,349,081; Aug. 10; v. 277; p. 236.
Middleton, Edward C., assignor to Triumph Cycle Company Limited, Coventry, England. Transmission shock-absorber. No. 1,349,082; Aug. 10; v. 277; p. 236.
Middleton, John R. (See Constantinesco, G., and Middleton.)
Middleton, Thomas P., assignor to Kerotype, Limited, London, England. Photographic-printing paper and making same. No. 1,329,918; Feb. 3; v. 271; p. 107.
Midgett, Penelton G., Dallas, Tex. Well-drilling bit. No. 1,346,133; July 13; v. 276; p. 221.
Midgett, Penelton G., assignor of one-half to R. Thomas, Dallas, Tex. Drill-bit. No. 1,344,425; June 22; v. 275; p. 733.
Midgley, Albert H., assignor of one-half to S. A. Vandervell & Company Limited, Acton Vale, England. Ignition system for internal-combustion engines. No. 1,351,396; Aug. 31; v. 277; p. 870.
Midgley, Albert H., assignor to C. A. Vandervell & Company, Limited, Acton Vale, England. Starting-magneto for internal-combustion engines. No. 1,356,778; Oct. 26; v. 279; p. 597.
Midgley, Arthur M. (See Sunderland, Sam, and Midgley.)
Midgley, John G., Salt Lake City, Utah. Mechanical stoker. No. 1,341,923; June 1; v. 275; p. 61.
Midgley, Thomas, Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Wire-splice. No. 1,329,792; Feb. 3; v. 271; p. 83.
Midgley, Thomas, Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Method and machine for removing air from rubber articles. No. 1,335,124; Mar. 30; v. 272; p. 776.
Midgley, Thomas, Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Overflow-cavity for molds. No. 1,346,232; July 13; v. 276; p. 240.
Midgley, Thomas, Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tire-bead. No. 1,349,902; Aug. 17; v. 277; p. 470.
Midgley, Thomas, Jr. (See Midgley, Thomas, Sr., and T., Jr.)
Midgley, Thomas, Jr., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Mercury-cooling system. No. 1,328,051; Jan. 13; v. 270; p. 280.
Midgley, Thomas, Jr., Lancaster, Ohio, assignor, by mesne assignments, to General Motors Corporation. Hydrometer. No. 1,335,253; Mar. 30; v. 272; p. 799.
Midgley, Thomas, Jr., assignor, by mesne assignments, to The Delco-Light Company, Dayton, Ohio. Circuit-breaker. No. 1,337,366; Apr. 20; v. 273; p. 449.
Midgley, Thomas, Sr., Columbus, and T. Midgley, Jr., Dayton, Ohio, assignors to The Fisk Rubber Company, Chicopee Falls, Mass. Tire-core. No. 1,346,231; July 13; v. 276; p. 239
Midvale Steel & Ordnance Company. (See Cox, John L., assignor.)

Digitized by Google

Mid-West Box Company. (See Heinrichs, Berg, assignor.)
Midwest Engine Company. (See Wait, Henry H., assignor.)
Midyett, Zacariah M., Jackson, Tenn. Toy popgun. No. 1,327,723; Jan. 13; v. 270; p. 219.
Mieczejeski, Tony, Rosemont, W. Va. Milk-boiler. No. 1,333,330; Mar. 9; v. 272; p. 271.
Mieczejeski, Tony, Rosemont, W. Va. Multiple and foldable bed. No. 1,357,578; Nov. 2; v. 280; p. 71.
Miedreich, Henry A., assignor of one-half to H. W. Becker, Evansville, Ind. Advertising-stereopticon. No. 1,361,274; Dec. 7; v. 281; p. 58.
Miehle Printing Press & Manufacturing Company. (See Blaine, Joseph R., assignor.)
Miehle Printing Press and Manufacturing Company, The. (See Dudley, Edward F., assignor.)
Miehle Printing Press & Manufacturing Company. (See Hodgman, Willis K., assignor.)
Miehle Printing Press and Manufacturing Company. (See Kelley, William V., assignor.)
Miehle Printing Press & Mfg. Co. (See Henderson, Carl, assignor.)
Mieloch, Andrew and A. A., St. Paul, Minn. Spreader for tire-casings. No. 1,342,565; June 8; v. 275; p. 239.
Mieloch, Anton A. (See Mieloch, Andrew and A. A.)
Miers, Albert L., Indianapolis, Ind. Automobile-door bumper. No. 1,340,621; May 18; v. 274; p. 504.
Mieske, Herman A., Fall Creek, Wis. Four-wheel drive for automobiles and similar vehicles. No. 1,358,411; Sept. 21; v. 278; p. 426.
Mietz, August, Corporation. (See Muller, Charles A., assignor.)
Migel, Julius A., Pelham Manor, N. Y. Woven fabric and making same. No. 1,333,032; Mar. 9; v. 272; p. 215.
Mighell, Seward N., Chicago, Ill. Coal-mining machine. No. 1,346,966; July 20; v. 276; p. 444.
Mignon, Ernest C., Elmira, N. Y. Wireless signal-receiving apparatus. No. 1,329,672; Feb. 3; v. 271; p. 61.
Mignon, George E., Wanstead, England. Means for teaching bayonet exercises, fighting, and drill. No. 1,357,791; Nov. 2; v. 280; p. 113.
Mihalkevicj, Steve. (See Reibin, Fedor K., assignor.)
Mikalkavitch, Steve. (See Antonuk, Lawrenty.)
Mikimoto, Kokichi, Tokyo, Japan. Causing oysters to produce pearls. No. 1,328,008; Jan. 13; v. 270; p. 272.
Mikkelsen, Peder, assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Door-closer. No. 1,331,349; Feb. 17; v. 271; p. 474.
Mikkin, Carl A., Olmstead, Ill. Hame and trace connector. No. 1,339,777; May 11; v. 274; p. 287.
Mikolyn, Ewdokija, Charleroi, Pa. Curtain-pole and window-shade holder. No. 1,346,233; July 13; v. 276; p. 240.
Mikulecky, Vaclav, Verdigre, Nebr. Antiskid chain for wheel-tires. No. 1,357,334; Nov. 2; v. 280; p. 26.
Milburn, Aaron, Halls Prairie, British Columbia, Canada. Lantern-globe. No. 1,353,839; Sept. 28; v. 278; p. 555.
Mildren, Lory J., assignor of one-half to J. B. Hinkle, Ponca City, Okla. Oil-well appliance. No. 1,344,922; June 29; v. 275; p. 895.
Miller, Mollie H. (See Henry, Nelson B., assignor.)
Miles, Con L. (See Kain, H. Miles and Wilkinson.)
Miles, Edward L., assignor of one-half to L. E. Genett, Stevens Point, Wis. Antislipping attachment for gangplanks. No. 1,329,057; Jan. 27; v. 270; p. 536.
Miles, George W., Sandwich, Mass., assignor to Ross Chemical Company. Water-resistant coating material and making it. No. 1,354,575; Oct. 5; v. 279; p. 25.
Miles, George W., Sandwich, Mass., assignor to American Cellulose and Chemical Manufacturing Company, Ltd., New York, N. Y. Composition of cellulose acetate with the fatty acids of cocoanut-oil. No. 1,357,335; Nov. 2; v. 280; p. 26.
Miles, James C., Cleveland, Ohio. Heating and ventilating apparatus. No. 1,343,330; June 15; v. 275; p. 453.
Miles, John, Ontonagon, Mich. Saw-gummer. No. 1,336,042; Apr. 6; v. 273; p. 64.
Miles, John H., Trinity Center, Calif. Thawing ground. No. 1,339,036; May 4; v. 274; p. 72.
Miles, Leonard, Coventry, England. Feeding and measuring device for rolls of sensitized strips employed in photographic cameras. No. 1,344,207; June 22; v. 275; p. 690.
Miles, Percival W., Wilkes-Barre, Pa. Sanding device. No. 1,340,728; May 18; v. 274; p. 523.
Miles, William C., Washington, D. C. Muffler. No. 1,331,275; Feb. 17; v. 271; p. 460.
Miles, William C., assignor of one-fourth to N. T. Whitaker, Washington, D. C. Device for winding and rewinding motors. No. 1,327,567; Jan. 6; v. 270; p. 128.
Miles, William H., Cleveland, Ohio. Newspaper-vending machine. No. 1,342,858; June 8; v. 275; p. 298.
Miley, Benjamin, Walla Walla, Wash. Nut-lock. No. 1,339,120; May 4; v. 274; p. 88.
Milholen, Charles F., Kannapolis, N. C. Gearing. No. 1,363,142; Dec. 21; v. 281; p. 526.
Militor Corporation, The. (See Neuteboom, Boudewijn R., assignor.)
Milke, Gustav, Dresden, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Device for rolling and forming batches of candy in confectionery. No. 1,330,764; Feb. 10; v. 271; p. 297.
Milker, Herbert P., assignor to C. J. Tagliabue Manufacturing Co., Brooklyn, N. Y. Thermometer. No. 1,333,813; Mar. 16; v. 272; p. 422.
Milker, Herbert P., assignor to C. J. Tagliabue Manufacturing Co., Brooklyn, N. Y. Air-filter. No. 1,337,020; Apr. 13; v. 273; p. 309.
Milker, Herbert P., assignor to C. J. Tagliabue Manufacturing Co., Brooklyn, N. Y. Thermometer. No. 1,345,687; July 6; v. 276; p. 70.
Milker, Herbert P., assignor to Charles J. Tagliabue Manufacturing Co., Brooklyn, N. Y. Thermometer. No. 1,345,795; July 6; v. 276; p. 92.
Milker, Herbert P., Brooklyn, and C. E. A. Gronbech, New York, assignors to Charles J. Tagliabue Manufacturing Co., Brooklyn, N. Y. Thermometer. No. 1,363,803; Dec. 28; v. 281; p. 694.
Milks, Alvin L., assignor of one-half to H. S. Milks, Parsons, Kans. Vehicle-body. No. 1,361,603; Dec. 7; v. 281; p. 126.
Milks, Harry S. (See Milks, Alvin L., assignor.)
Mill, Anton, Cincinnati, Ohio. Friction-clutch. No. 1,335,748; Apr. 6; v. 273; p. 8.
Millar, Charles. (See Bourne, George H., assignor.)
Millar, Charles, Vancouver, British Columbia, Canada. Automobile-signal. No. 1,349,289; Aug. 10; v. 277; p. 278.
Millar, John, Cincinnati, Ohio. Belt-fastening device. No. 1,361,083; Dec. 7; v. 281; p. 20.
Millard, Gustavus A., Los Angeles, Calif. Orthodontia appliance. No. 1,362,339; Dec. 14; v. 281; p. 317.
Millard, James H., Middlebury, Conn. Folding axle. No. 1,358,092; Nov. 9; v. 280; p. 430.
Millard, Lewis L., Norden, Nebr. Gate. No. 1,359,089; Nov. 16; v. 280; p. 474.
Millard, Lewis L., Norden, Nebr. Snowplow. No. 1,359,090; Nov. 16; v. 280; p. 474.
Millard, William, assignor to Carbon Destroyer Corporation, New York, N. Y. Apparatus for moistening carbureted mixtures for gas-engines. No. 1,329,252; Jan. 27; v. 270; p. 573.
Millard, William, assignor to Millard's Gum Vending Corporation, New York, N. Y. Coin-controlled mechanism. No. 1,344,769; June 29; v. 275; p. 866.
Millard, William J., New York, N. Y. Automobile-bumper. No. 1,348,030; July 27; v. 276; p. 712.
Millard's Gum Vending Corporation. (See Millard, William, assignor.)
Miller, Albert W., assignor of one-half to E. C. Bryan, Riverside, Calif. Coil-forming machine. No. 1,349,903; Aug. 17; v. 277; p. 470.
Miller, Alfred H., Philadelphia, Pa., assignor to Wright Roller Bearing Company. Assembling antifriction-bearings. No. 1,350,325; Aug. 24; v. 277; p. 598.
Miller, Alfred W., *et al.* (See Brooks, Samuel A., assignor.)
Miller, Andrew B., Baldwin, Wis. Laundry-machine. No. 1,359,721; Nov. 23; v. 280; p. 643.
Miller, Andrew E., assignor to S. Himmel, Baltimore, Md. Display-rack. No. 1,341,512; May 25; v. 274; p. 745.
Miller, Anne E., Chicago, Ill. Brassière. No. 1,362,027; Dec. 14; v. 281; p. 256.
Miller, Arthur E., Sacramento, Calif. Protector for books. No. 1,337,612; Apr. 20; v. 273; p. 496.
Miller, Arthur E., Sacramento, Calif. Safety-lock for vehicles. No. 1,362,955; Dec. 21; v. 281; p. 488.
Miller, Arthur J., *et al.* (See Margetts, I. R., and Fagergren, assignors.)
Miller, Arthur J., Warren, Pa. Camera. No. 1,344,182; June 22; v. 275; p. 685.
Miller, Augustus, East Orange, N. J. Dating-stamp lock. No. 1,352,300; Sept. 7; v. 278; p. 113.
Miller, Axel N., Harvey, Ill. Scaffold. No. 1,360,131; Nov. 23; v. 280; p. 724.
Miller, Carl P, Fargo, N. D. Road-grader. No. 1,354,264; Sept. 28; v. 278; p. 642.
Miller, Carl P., Fargo, N. D. Hat-hanger. No. 1,359,613; Nov. 23; v. 280; p. 622.
Miller, Carl P., and R. R. Lee, Fargo, N. D. Seed-potato cutter. No. 1,354,263; Sept. 28; v. 278; p. 642.
Miller, Charles A., assignor to Worcester Metal Goods Company, Waterbury, Conn. Separable fastener. No. 1,337,785; Apr. 20; v. 273; p. 529.
Miller, Charles E., Pittsburgh, Pa. Spade. No. 1,335,848; Apr. 6; v. 273; p. 27.
Miller, Charles E., Anderson, Ind. Wrapping-machine. No. 1,359,477; Nov. 16; v. 280; p. 550.
Miller, Charles F., Payette, Idaho. Rail-joint. No. 1,335,693; Mar. 30; v. 272; p. 882.
Miller, Charles F., Lancaster, Pa., assignor to M. Smithey, Lawrenceville, Va. Odometer. No. 1,340,493; May 18; v. 274; p. 479.
Miller, Charles, F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Multiple-retort underfeed stoker. No. 1,352,464; Sept. 14; v. 278; p. 179.
Miller, Charles F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Multiple-feed horizontal underfeed stoker. No. 1,352,465; Sept. 14; v. 278; p. 179.
Miller, Charles F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Underfeed stoker and draft-controlling mechanism therefor. No. 1,352,466; Sept. 14; v. 278; p. 180.

Digitized by Google

Miller, Charles F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Multiple section horizontal underfeed stoker. No. 1,352,467; Sept. 14; v. 278; p. 180.
Miller, Charles J. (See Mertens, Louis R., assignor.)
Miller, Charles R., Collinsville, Tex., assignor to Mayo-Skinner Manufacturing Co., Chicago, Ill. Grease-gun. (Reissue.) No. 14,819; Mar. 16; v. 272; p. 508.
Miller, Cyrus M., Jr., assignor to Wheeler & Motter Mercantile Company, St. Joseph, Mo. Safety-pocket for garments. No. 1,328,884; Jan. 27; v. 270; p. 504.
Miller, Daniel D., assignor to Western Electric Company, Incorporated, New York, N. Y. Electromagnetic device. No. 1,339,778; May 11; v. 274; p. 287.
Miller, Edward, Columbus, Ohio, assignor to C. J. Root, Terre Haute, Ind. Glass-working machine. No. 1,350,375; Aug. 24; v. 277; p. 608.
Miller, Edwin, Hartford, Conn. Electric sadiron. No. 1,351,054; Aug. 31; v. 277; p. 802.
Miller, Edwin E., Tyrone, Pa. Shield for wheels. No. 1,351,261; Aug. 31; v. 277; p. 842.
Miller, Edwin L., Kansas City, Mo. Safety cranking device for automobiles. No. 1,327,109; Jan. 6; v. 270; p. 43.
Miller, Ellis, New York, N. Y. Growing plants. No. 1,353,931; Sept. 28; v. 278; p. 574.
Miller, Ellsworth W., Hazleton, Pa. Miniature fence. No. 1,331,117; Feb. 17; v. 271; p. 432.
Miller, Elmer, Boonton, N. J. Non-refillable bottle. No. 1,336,252; Apr. 6; v. 273; p. 104.
Miller, Elmer E., Sacramento, Pa. Trigger mechanism and safety device therefor. No. 1,356,779; Oct. 26; v. 279; p. 597.
Miller, Elton W. (See Lamb, A. B., Miller, and Carleton.)
Miller, Elton W., Washington, D. C. Gas-mask. No. 1,348,819; Aug. 3; v. 277; p. 132.
Miller, Emil A., assignor of one-half to C. L. Koerner, Oakland, Calif. Rotary engine. No. 1,343,331; June 15; v. 275; p. 453.
Miller, Emil F., Providence, R. I. Carboy-holder. No. 1,357,646; Nov. 2; v. 280; p. 84.
Miller, Emma T., San Antonio, Tex. Geometric figure. No. 1,344,053; June 22; v. 275; p. 661.
Miller, Emmett S., Chicago, Ill. Elevator-lock. No. 1,340,664; May 18; v. 274; p. 512.
Miller, Ernest A. F., Jr. (See Miller, William L. and E. A. F., Jr.)
Miller, Ernest B. (See Patrick, W. A., Lovelace, and Miller.)
Miller, Ernest W., Norwood, assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Safety device for extractors. No. 1,352,827; Sept. 14; v. 278; p. 253.
Miller, Frank J. (See Thorn, R. H., and Miller.)
Miller, Frank P. Meadville, Pa. Cutter-head. No. 1,342,055; June 1; v. 275; p. 87.
Miller, Frank P., Meadville, Pa. Cutting-tool. No. 1,358,013; Nov. 9; v. 280; p. 217.
Miller, Frank P., Downingtown, Pa. Screen-box for paper-making machines. No. 1,354,324; Sept. 28; v. 278; p. 654.
Miller, Frank P., Downingtown, Pa. Paper-making machine. No. 1,362,499; Dec. 14; v. 281; p. 348.
Miller, Frank W., Chicago, Ill. Boiler washing and filling system. No. 1,330,085; Feb. 10; v. 271; p. 170.
Miller, Frank W., Chicago, Ill. Boiler washing and filling system. No. 1,357,717; Nov. 2; v. 280; p. 98.
Miller, Frank W., Bethel, Mo. Garment-supporter. No. 1,336,312; Apr. 6; v. 273; p. 115.
Miller, Franklin P., East Orange, N. J. Ice-cream-making machine. No. 1,352,984; Sept. 14; v. 278; p. 283.
Miller, Fred, Braddock, Pa. Lifting-jack. No. 1,342,057; June 1; v. 275; p. 87.
Miller, Fred C., *et al.* (See Jonsson, Jonas, assignor.)
Miller, Fred J., Pittsburgh, Pa. Locking-receptacle. No. 1,356,301; Oct. 19; v. 279; p. 458.
Miller, Fred W., *et al.* (See Mentzer, Claude E., assignor.)
Miller, Frederick H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,341,657; June 1; v. 275; p. 8.
Miller, Frederick W., Los Angeles, Calif. Electric-arc lamp. No. 1,329,132; Jan. 27; v. 270; p. 550.
Miller, George E., Etna, Pa. Tap. No. 1,342,754; June 8; v. 275; p. 276.
Miller, George F., New York, N. Y. Filter-press plate. No. 1,330,331; Feb. 10; v. 271; p. 215.
Miller, George F., New York, N. Y. Filter-press device. No. 1,330,332; Feb. 10; v. 271; p. 215.
Miller, George F., New York, N. Y. Filter-press device. No. 1,333,869; Mar. 16; v. 272; p. 433.
Miller, George F., New York, N. Y. Filter-press frame. No. 1,337,251; Apr. 20; v. 273; p. 428.
Miller, George H., Brooklyn, N. Y. Annunciator. No. 1,329,920; Feb. 3; v. 271; p. 108.
Miller, George J. (See Richardson, Elmer E., assignor.)
Miller, George L., assignor to The Gilliam Manufacturing Company, Canton, Ohio. Roller-bearing. No. 1,360,430; Nov. 30; v. 280; p. 851.
Miller, George W., San Francisco, Calif. Vending-machine. No. 1,336,478; Apr. 13; v. 273; p. 205.
Miller, George W., Rochester, N. Y. Wooden-sole working-shoe. No. 1,338,947; May 4; v. 274; p. 55.
Miller, Georgiana C., Livingston, Mont. Automobile-screen. No. 1,354,987; Oct. 5; v. 279; p. 107.
Miller, Gottlieb. (See Roach, J. H., and Miller, assignors.)
Miller, Gustave, Los Angeles, Calif. Oxygen and hydrogen generator. No. 1,334,608; Mar. 23; v. 272; p. 629.
Miller, Guy F., Traverse City, Mich. Fire-alarm switch. No. 1,340,729; May 18; v. 274; p. 523.
Miller, H. G. (See Ells, Hallett D., assignor.) (Reissue.)
Miller, H. J., & Co. (See Miller, Henry J., assignor.)
Miller, Harald, San Francisco, Calif. Necktie-ironer. No. 1,329,919; Feb. 3; v. 271; p. 107.
Miller, Harry M., Milwaukee, Wis. Outlet-valve. No. 1,348,233; Aug. 3; v. 277; p. 21.
Miller, Harvey L., assignor to C. W. Parker, Leavenworth, Kans. Portable screen. No. 1,363,187; Dec. 21; v. 281; p. 534.
Miller, Henry, assignor to A. O. Smith Corporation, Milwaukee, Wis. Offsetting-press. No. 1,340,138; May 11; v. 274; p. 355.
Miller, Henry, assignor to A. O. Smith Corporation, Milwaukee, Wis. Feeding and delivering mechanism for sheet-metal-working presses. No. 1,344,810; June 29; v. 275; p. 874.
Miller, Henry C., Waterford, N. Y. Thread-trimming and stopping and starting mechanism. No. 1,359,414; Nov. 16; v. 280; p. 537.
Miller, Henry J., assignor to H. J. Miller & Co., Ridgley, Tenn. Fire-starter. No. 1,333,557; Mar. 9; v. 272; p. 313.
Miller, Henry L. (See De Vilbiss, J. A., and Miller.)
Miller, Henry N., Chicago, Ill. Multicolored apparatus. No. 1,346,234; July 13; v. 276; p. 240.
Miller, Henry S., Washington, D. C. Perforating-rule. No. 1,351,002; Aug. 24; v. 277; p. 729.
Miller, Herbert F., Jr. (See Downs, G. F., and Miller.)
Miller, Hettie S., *et al.* (See Price, James W., assignor.)
Miller, Hiram C., Parkersburg, Pa. Locking device for steering-wheels. No. 1,346,837; July 20; v. 276; p. 419.
Miller, Isidor J. (See Perkins, Joseph G., assignor.)
Miller, Jack, and J. Miller, Montreal, Quebec, Canada. Fastening device. No. 1,347,705; July 27; v. 276; p. 647.
Miller, Jacob H., Cresson, Pa. Lid for grease-cups. No. 1,341,190; May 25; v. 274; p. 683.
Miller, Jacob H., Cresson, Pa. Grease-cup lid. No. 1,351,922; Sept. 7; v. 278; p. 42.
Miller, James, assignor of one-half to George Fletcher & Company, Limited, Derby, England. Filter-press and the like. No. 1,331,350; Feb. 17; v. 271; p. 475.
Miller, James, Derby, England, assignor of one-half to G. Fletcher & Company, Limited. Trash-turner. No. 1,343,059; June 8; v. 275; p. 337.
Miller, James A., Beeville, Tex. Plow attachment. No. 1,345,869; July 6; v. 276; p. 106.
Miller, James B., and J. H. Bruninga, assignors to I. Feldheimer, St. Louis, Mo. Tire-pressure gage. No. 1,334,874; Mar. 23; v. 272; p. 669.
Miller, James R., Pittsburgh, Pa. Apparatus for reclaiming oil. No. 1,359,614; Nov. 23; v. 280; p. 622.
Miller, James S., Beaver Falls, Pa. Paper receptacle. No. 1,329,466; Feb. 3; v. 271; p. 23.
Miller, Jan, Brooklyn, N. Y. Trolley-harp. No. 1,340,456; May 18; v, 274; p. 472.
Miller, Jasper M., Rushville, Ind. Horn and hoof trimmer. No. 1,330,716; Feb. 10; v. 271; p. 287.
Miller, Jeremiah, Ottawa, W. Va. Combined fork, rake, and knife. No. 1,337,939; Apr. 20; v. 273; p. 559.
Miller, John. (See Miller, J. and J.)
Miller, John A., Waukegan, assignor to L. R. Wilder, Chicago, Ill. Train-signaling and train-control system. No. 1,357,243; Nov. 2; v. 280; p. 8.
Miller, John B., Sauk Center, Minn. Quack-grass digger. No. 1,334,255; Mar. 16; v. 272; p. 504.
Miller, John C., Covington, Ky., assignor, by mesne assignments, to The Miller Pasteurizing Machine Company, Canton, Ohio. Bottle feeding and moving mechanism. No. 1,336,788; Apr. 13; v. 273; p. 266.
Miller, John C., Ludlow, Ky., assignor to The Evaporating and Drying Machinery Company, Cincinnati, Ohio. Pasteurizer. No. 1,340,177; May 18; v. 274; p. 420.
Miller, John D., San Diego, Calif. Animal-trap. No. 1,327,490; Jan. 6; v. 270; p. 113.
Miller, John E. A., San Francisco, Calif. Check-valve for boiler-feed. No. 1,357,792; Nov. 2; v. 280; p. 113.
Miller, John G., Waterloo, Iowa. Machine for forming postholes. No. 1,338,948; May 4; v. 274; p. 55.
Miller, John H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Marking device. No. 1,335,125; Mar. 30; v. 272; p. 776.
Miller, John H. K., Clapham, London, S., England. Divider, caliper, and like instrument. No. 1,350,511; Aug. 24; v. 277; p. 635.
Miller, John J. A., Denver, Colo. Power-conserving air-channel propeller for flying-machines. No. 1,338,516; Apr. 27; v. 273; p. 737.
Miller, John K., Marshall, Minn. Tractor-hitch. No. 1,361,166; Dec. 7; v. 281; p. 36.
Miller, John L., Fort Collins, Colo. Bank-check. No. 1,336,647; Apr. 13; v. 273; p. 288.

Digitized by Google

Miller, John M., Sewickley, Pa. Liquid-vending apparatus. No. 1,339,522; May 11; v. 274; p. 238.
Miller, John S., Jr. (See Oliensis, G. L., and Miller.)
Miller, John S., Jr., Rahway, N. J., assignor to The Barber Asphalt Paving Company, Philadelphia, Pa. Floor-covering. No. 1,360,663; Nov. 30; v. 280; p. 897.
Miller, Jonas. (See Masaites, Charles A., assignor.)
Miller, Joseph B. (See Jeffries, Oscar S., Sr., assignor.)
Miller, Joseph B., assignor of one-half to J. A. Harold, Rochester, N. Y. Lock for milk-boxes. No. 1,334,777; Mar. 23; v. 272; p. 650.
Miller, Julius, Los Angeles, Calif. Meat-grinder. No. 1,332,135; Feb. 24; v. 271; p. 643.
Miller, Julius, Los Angeles, Calif. Safety-drive for meat-cutters. No. 1,339,273; May 4; v. 274; p. 115.
Miller, Justin McC., Baltimore, Md., assignor to the Government of the United States. Control means for ordnance. No. 1,360,664; Nov. 30; v. 280; p. 897.
Miller, Leon, Moline, Ill. Machine for making cores. No. 1,329,425; Feb. 3; v. 271; p. 15.
Miller, Leonard, Whitefield, and W. Brooke, Altrincham, England, assignors to Westinghouse Electric & Manufacturing Company. Motor-control system. No. 1,334,919; Mar. 23; v. 272; p. 578.
Miller, Leonard M. (See Hogdin, J. H., Coats, and Miller.)
Miller Lock Company. (See Meadowcroft, Charles W., Sr., assignor.)
Miller, Lorin O., Dunkirk, Ind. Mixer. No. 1,362,028; Dec. 14; v. 281; p. 256.
Miller, Lorin O., Dunkirk, Ind., assignor of two-thirds to M. M. Moran and J. R. Fleming, Portland, Ind. Mixing device for internal-combustion engines. No. 1,344,706; June 29; v. 275; p. 853.
Miller, Matthias S., Lawrenceburg, Ind. Garment-hanger. No. 1,332,741; Mar. 2; v. 272; p. 108.
Miller, Max C., Providence, assignor to Jenckes Knitting Machine Company, Pawtucket, R. I. Circular-knitting machine. No. 1,328,580; Jan. 20; v. 270; p. 417.
Miller, Max C., Cumberland Hill, assignor to Jenckes Knitting Machine Company, Pawtucket, R. I. Knitted fabric and knitting same. No. 1,333,763; Mar. 16; v. 272; p. 413.
Miller, Max C., Cumberland Hill, assignor to Jenckes Knitting Machine Company, Pawtucket, R. I. Feeding means for circular knitting-machines. No. 1,352,079; Sept. 7; v. 278; p. 71.
Miller, Melville A., assignor to Brun-Mill Company, Pittsfield, Ill. Combined cigarette and vanity case. No. 1,342,178; June 1; v. 275; p. 111.
Miller, Monroe E. (See French, M., and Miller.)
Miller, Morris S., Cleveland, Ohio. Waiter's check or order slip. No. 1,358,230; Nov. 9; v. 280; p. 259.
Miller, Norman H., Meadville, Pa. Swing-chair. No. 1,328,181; Jan. 13; v. 270; p. 305.
Miller, O. A., Treeing Machine Company. (See Morrill, L. A., and Gynan.
Miller, Oscar L. (See Hahn, L. R., and Miller.)
Miller, P. M., Hygienic Specialty Company. (See Miller, Philip M., assignor.)
Miller Pasteurizing Machine Company, The. (See Miller, John C., assignor.)
Miller Pasteurizing Machine Company, The. (See Pfouts, Leroy S., assignor.)
Miller, Peter, Little Rock, Ark. Shoe-heel-holding apparatus. No. 1,355,840; Oct. 19; v. 279; p. 366.
Miller, Philip M., Brooklyn, N. Y., assignor, by mesne assignments, to P. M. Miller Hygienic Specialty Company. Medicinal effervescing capsule. No. 1,356,544; Oct. 26; v. 279; p. 551.
Millis, Phineas A., Lewiston, Me. Stop-motion for looms. No. 1,347,395; July 20; v. 276; p. 528.
Miller, Ralph, and W. E. Turney, San Francisco, Calif. Ventilating window-section and screen. No. 1,344,054; June 22; v. 275; p. 661.
Miller, Raymond, Rochester, N. Y. Automatic pump-priming device. No. 1,343,574; June 15; v. 275; p. 501.
Miller, Robert E., Altoona, and G. H. Liebegott, Duncansville, Pa. Air-filtering system for cooling the motors of electrically-driven railway-cars. No. 1,327,287; Jan. 6; v. 270; p. 76.
Miller, Robert L. (See Higgins, F. G., and Miller.)
Miller Rubber Company, The. (See Brundage, James W., assignor.)
Miller Rubber Company, The. (See Fenton, Frank, assignor.)
Miller Rubber Company, The. (See Lerch, William G., assignor.)
Miller Rubber Company, The. (See Riley, Ralph E., assignor.)
Miller Rubber Company. (See Whisler, Chauncy P., assignor.)
Miller Rubber Company, The. (See Willis, Glenn H., assignor.)
Miller Saw-Trimmer Company. (See Klorer, Charles P., assignor.)
Miller Saw-Trimmer Company. (See Smith, Walter H., assignor.)
Miller Saw-Trimmer Company. (See Wells, P. L., and Hunter, assignors.)
Miller, Samuel H., La Junta, Colo. Latch. No. 1,351,300; Aug. 31; v. 277; p. 851.
Miller, Samuel W., Rochester, N. Y. Piping system. No. 1,338,994; May 4; v. 274; p. 63.
Miller, Sigwald. (See Dolan and Miller.)
Miller, Solomon M., Chicago, Ill. Hair-clipper. No. 1,348,293; Aug. 3; v. 277; p. 32.
Miller, Stuart P., assignor to The Barrett Company, Philadelphia, Pa. Producing resin. No. 1,360,665; Nov. 30; v. 280; p. 897.
Miller, Taylor L., Cheyenne, Okla. Overall-suspender buckle. No. 1,358,384; Nov. 9; v. 280; p. 291.
Miller, Thomas O., San Antonio, Tex. Street-traffic signal. No. 1,353,999; Sept. 28; v. 278; p. 588.
Miller, Thomas S., South Orange, N. J. Marine cableway. (Reissue.) No. 14,858; May 18; v. 274; p. 549.
Miller, Thomas S., South Orange, N. J. Towing vessels. No. 1,360,968; Nov. 30; v. 280; p. 956.
Miller, Thomas W., assignor to The Faultless Rubber Company, Ashland, Ohio. Bead-forming machine. No. 1,359,265; Nov. 16; v. 280; p. 507.
Miller Train Control Corporation, The. (See Murray, William B., assignor.)
Miller, Valie C., Allen township, Ottawa county, Ohio. Shutter for automobile-radiators. No. 1,355,411; Oct. 12; v. 279; p. 242.
Miller Vehicle Heater Company. (See Holmes, Frank M., assignor.)
Miller, Walter H., Orange, N. J. Phonograph. No. 1,350,616; Aug. 24; v. 277; p. 656.
Miller, Walter J., St. Paul, Minn. Dye compound. No. 1,358,456; Nov. 9; v. 280; p. 306.
Miller, William, Detroit, Mich., assignor to L. A. Young Industries, Inc. Marker for sewing-machines. No. 1,330,601; Feb. 10; v. 271; p. 266.
Miller, William, assignor to Amesbury Brass and Foundry Company, Amesbury, Mass. Door-handle for automobiles. No. 1,342,058; June 1; v. 275; p. 87.
Miller, William C. J., Rockville Center, N. Y. Doll. No. 1,361,275; Dec. 7; v. 281; p. 58.
Miller, William D., Saco, Mont. Road-working device. No. 1,332,742; Mar. 2; v. 272; p. 108.
Miller, William J., Goose Creek, Tex. Piston. No. 1,328,182; Jan. 13; v. 270; p. 305.
Miller, William J, Swissvale borough, Pa. Apparatus for manufacturing articles of glass. No. 1,329,624; Feb. 3; v. 271; p. 52.
Miller, William J., Swissvale borough, Pa. Pressing-plunger mechanism for glass-machines. No. 1,342,056; June 1; v. 275; p. 87.
Miller, William J., and L. A. Frayer, Columbus, Ohio. Combined truck and jack. No. 1,361,889; Dec. 14; v. 281; p. 228.
Miller, William L., and F. E. Morton, Lexington, Nebr. Knockdown crate. No. 1,330,382; Feb. 10; v. 271; p. 225.
Miller, William L. and E. A. F., Jr., assignors of one-third to N. A. Cooke, Coffeyville, Kans. Direction-signal for automobiles. No. 1,350,463; Aug. 24; v. 277; p. 626.
Miller, William T., Iberia, Mo. Churn. No. 1,363,143; Dec. 21; v. 281; p. 526.
Miller, Willie D. (See Thurston and Miller.)
Miller, Willis L., Cleveland, Ohio. Telephone-support. No. 1,336,253; Apr. 6; v. 273; p. 104.
Miller, Wilmer W., Ardmore, Pa. Alarm device. No. 1,349,004; Aug. 17; v. 277; p. 470.
Millerlei, Arthur G., Evansville, Ind. Necktie-spreader. No. 1,334,625; Mar. 23; v. 272; p. 621.
Milligan, Rockwell M., assignor of one-half to G. T. Meyer and one-fourth to F. W. Linnemeyer, St. Louis, Mo. Hinge for desk-tops. No. 1,343,332; June 15; v. 275; p. 453.
Milligan, Stephen W., Newark, assignor to The Manufacturers Can Co., Harrison, N. J. Sheet-metal can. No. 1,335,007; Mar. 30; v. 272; p. 754.
Milligan, Walker M., Seattle, Wash. Grinding-machine. No. 1,354,456; Sept. 28; v. 278; p. 680.
Milliken Brothers Mfg. Co. (See Jennings, John E., assignor.)
Milliken, Foster, *et al.*, trustees. (See Milliken, Foster, assignor.)
Milliken, Foster, Lawrence, N. Y., assignor to F. Milliken, S. F. Weaver, and J. M. Repplier, trustees. Alloy. No. 1,338,517; Apr. 27; v. 273; p. 737.
Milliken, Foster, Lawrence, N. Y., assignor to F. Milliken, S. F. Weaver, and J. M. Repplier, trustees. Alloy. No. 1,338,518; Apr. 27; p. 273; p. 737.
Milliken, Foster, Lawrence, N. Y., assignor to F. Milliken, S. F. Weaver, and J. M. Ripplier, trustees. Alloy. No. 1,350,166; Aug. 17; v. 277; p. 521.
Milliken, Foster, Lawrence, N. Y., assignor to Foster Milliken, S. F. Weaver, and J. M. Repplier, trustees. Alloy. No. 1,351,673; Aug. 31; v. 277; p. 925.
Milliken, Foster, assignor to F. Milliken, S. F. Weaver and J. M. Repplier, trustees. Lawrence, N. Y. Alloy. No. 1,354,988; Oct. 5; v. 279; p. 107.
Milliken, Foster, assignor to F. Milliken, S. F. Weaver, and J. M. Repplier, trustees. Lawrence, N. Y. Alloy. No. 1,354,989; Oct. 5; v. 279; p. 108.
Milliken, Foster, assignor to F. Milliken, S. F. Weaver, and J. M. Repplier, trustees. Lawrence, N. Y. Alloy. No. 1,354,990; Oct. 5; v. 279; p. 108.

Digitized by Google

Milliken, Foster, Lawrence, N. Y., assignor to F. Milliken, S. F. Weaver, and J. M. Repplier, trustees. Alloy. No. 1,360,773; Nov. 30; v. 280; p. 918.
Milliken, Humphreys, Tenafly, N. J., assignor of one-half to J. B. Taylor, New York, N. Y. Dust-separator. No. 1,344,055; June 22; v. 275; p. 661.
Milliken, Isaac H., Aspinwall, assignor to The McConway & Torley Company, Pittsburgh, Pa. Draft-rigging. No. 1,333,271; Mar. 9; v. 272; p. 259.
Milliken, Isaac H., Aspinwall, assignor to The McConway & Torley Company, Pittsburgh, Pa. Wear-plate for car-couplings. No. 1,344,183; June 22; v. 275; p. 685.
Milliken, Isaac H., Aspinwall, assignor to The McConway & Torley Company, Pittsburgh, Pa. Wear-plate for car-couplings. No. 1,344,184; June 22; v. 275; p. 685.
Milliken, Isaac H., Aspinwall, assignor to The McConway & Torley Company, Pittsburgh, Pa. Wear-plate for car-couplings. No. 1,344,185; June 22; v. 275; p. 685.
Mills, Anson C., assignor to Jackson Fence Company, Jackson, Mich. Measuring device for fence-machines. No. 1,335,980; Apr. 6; v. 273; p. 53.
Mills, Anson C., assignor of one-half to P. L. Carter, Jackson, Mich. Safety attachment for railway gates. No. 1,356,302; Oct. 19; v. 279; p. 458.
Mills, Arthur, Sacramento, Calif. Truck-stake. No. 1,333,990; Mar. 16; v. 272; p. 456.
Mills, Arthur, Sacramento, Calif. Vehicle-wheel. No 1,350,617; Aug. 24; v. 277; p. 656.
Mills, Asbery T., Richland, Iowa. Automatic-locking spring-washer. No. 1,353,776; Sept. 21; v. 278; p. 499.
Mills, Byron T., Las Vegas, N. Mex. Copy-holder. No. 1,349,905; Aug. 17; v. 277; p. 471.
Mills, Cecil J., Whangarei, New Zealand. Fountain shoe-brush. No. 1,340,283; May 18; v. 274; p. 439.
Mills, Chester B., East McKeesport, Pa., assignor to Westinghouse Electric & Manufacturing Company. Dynamo-electric machine. No. 1,343,221; June 15; v. 275; p. 433.
Mills, Chester B., East McKeesport, Pa., assignor to Westinghouse Electric and Manufacturing Company. Starting system for automobiles. No. 1,343,222; June 15; v. 275; p. 433.
Mills, Chester B., East McKeesport, Pa., assignor to Westinghouse Electric and Manufacturing Company. Commutator-cylinder. No. 1,362,029; Dec. 14; v. 281: p. 257.
Mills, Chester B., East McKeesport, Pa., and J. P. Nikonow, New York, N. Y., assignors to Westinghouse Electric and Manufacturing Company. Wheel-brake. (Reissue.) No. 14,797; Jan. 27; v. 270; p. 591.
Mills, Chester B., East McKeesport, and C. E. Wilson, Wilkinburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Starting system for automobiles. No. 1,352,468; Sept. 14; v. 278; p. 480.
Mills, Claud E., Des Moines, Iowa. Transmission-gearing. No. 1,330,740; Feb. 10; v. 271; p. 292.
Mills, Claud E., Des Moines, Iowa. Front-end-suspension structure for self-propelled vehicles. No. 1,348,512; Aug. 3; v. 277; p. 74.
Mills, Claud E., Des Moines, Iowa. Shift structure. No. 1,355,346; Oct. 12; v. 279; p. 231.
Mills, David H., Oneonta, N. Y. Thermometer-cover. No. 1,363,259; Dec. 28; v. 281; p. 589.
Mills, Frederick M., *et al.* (See Gibson, Walter I., assignor.)
Mills, George E., Watertown, Mass. Circuit-closer for liquid-level indicators. No. 1,337,252; Apr. 20; v. 273; p. 428.
Mills, H. S. (See Sandell, Henry K., assignor.)
Mills, Herbert S. (See Mills, Mortimer B., assignor.)
Mills, Herbert S. (See Sandell, Henry K., assignor.)
Mills, James S. (See Mills, Samuel J. and J. S.)
Mills, John, assignor to American Telephone and Telegraph Company, Wyoming, N. J. Telephone-repeater. No. 1,351,863; Sept. 7; v. 278, p. 30.
Mills, John, assignor to American Telephone and Telegraph Company, Wyoming, N. J. Four-wire circuit. No. 1,352,828; Sept. 14; v. 278; p. 253.
Mills, John F., assignor to Utility Brush Company, Detroit, Mich. Attachment for brushes. No. 1,362,811; Dec. 21; v. 281; p. 462.
Mills, Louis D., assignor to The Merrill Company, San Francisco, Calif. Extracting copper from its ores. No. 1,360,666; Nov. 30; v. 280; p. 897.
Mills, Mortimer B., assignor to Mills Novelty Company, Chicago, Ill. Weighing-scale. No. 1,327,208; Jan. 6; v. 270; p. 62.
Mills, Mortimer B., assignor to H. S. Mills, Chicago, Ill. Weighing mechanism. No. 1,334,161; Mar. 16; v. 272; p. 488.
Mills, Norman T., San Francisco, Calif. Winding-key for clocks. No. 1,358,457; Nov. 9; v. 280; p. 306.
Mills Novelty Company. (See Mills, Mortimer B., assignor.)
Mills, Samuel J. and J. S., Fleming, Saskatchewan, Canada. Grinding-mill. No. 1,327,347; Jan. 6; v. 270; p. 87.
Mills, Stanley W. (See Schaaf, A. E., and Mills.)
Mills, Warren F., San Francisco, Calif. Boat-davit. No. 1,329,921; Feb. 3; v. 271; p. 108.
Mills, William. (See Morgan, William, assignor.)
Mills, William. (See Sleeper, J. J., and Mills.)
Mills, William S., Trumbull, and H. E. Bisaillon, Bridgeport, Conn. Stop-motion device. No. 1,359,266; Nov. 16; v. 280; p. 507.
Mills Woven Cartridge Belt Company. (See Jennings, Victor H., assignor.)
Mills Woven Cartridge Belt Company. (See Spalding, George W., assignor.)
Mills Woven Cartridge Belt Company. (See Sullivan, Cecelia I., assignor.)
Millsap, Leander W., Jr., Los Angeles, Calif. Hand-printer for mailer-strips and proof-sheets. No. 1,338,642; Apr. 27; v. 273; p. 759.
Millsaps, Daniel W., Washington, D. C. Package-tie. No. 1,360,969; Nov. 30; v. 280; p. 956.
Millward, John R. (See Millward, Walter H. and J. R.)
Millward, John R., Newark, N. J., assignor to The Dayton Engineering Laboratories Company, Dayton, Ohio. Starter for internal-combustion engines. No. 1,341,658; June 1; v. 275; p. 9.
Millward, John R., Newark, N. J., assignor to The Dayton Engineering Laboratories Company. Electric starter for internal-combustion engines. No. 1,341,659; June 1; v. 275; p. 9.
Millward, John R., Newark, N. J., assignor to The Dayton Engineering Laboratories Company. Electric starter for internal-combustion engines. No. 1,341,660; June 1; v. 275; p. 9.
Millward, Walter H. and J. R., Newark, N. J. Bicycle. No. 1,342,688; June 8; v. 275; p. 263.
Millyard, Bert H., Cheyenne, Wyo. Laundry-stick. No. 1,345,019; June 29; v. 275; p. 913.
Milne, George G., Rye, and J. L. Creveling, White Plains, N. Y., assignors to Gould Coupler Company. Electric regulation. No. 1,351,055; Aug. 31; v. 277; p. 803.
Milne, Isaac R. (See Hadfield, R. A., Jack, Milne, and Morse.)
Milne, Leonard, Westminster, London, England. Means for securing electrical fitting to conduit outlet-boxes and the like. No. 1,355,905; Oct. 19; v. 279; p. 379.
Milne, Robert. (See Johnson, O. W., and Milne.)
Milne, Susan H., Santa Barbara, Calif. Plate or dish holder. No. 1,358,231; Nov. 9; v. 280; p. 259.
Milne, W. J., *et al.* (See Super, Frank J., assignor.)
Milner, Edwin E., Scott township, Allegheny county, and W. J. Lytle, Rosslyn Farms borough, assignors to H. L. Dixon Company, Carnegie, Pa. Glass-annealing leer. No. 1,361,604; Dec. 7; v. 281; p. 126.
Milner, Harry L., Manchester, and A. R. Beeby, South Farnborough, England. Valve mechanism of internal-combustion engines. No. 1,339,406; May 11; v. 274; p. 215.
Milnes, John C., Chicago, Ill. Screen-marker. No. 1,345,211; June 29; v. 275; p. 950.
Milnor, Joseph W., assignor to The Western Union Telegraph Company, New York, N. Y. Voltage-regulator for direct and alternating current generators. No. 1,353,060; Sept. 14; v. 278; p. 298.
Milon, Frank J., *et al.* (See Eckenroth, Philip, assignor.)
Milone, Gaetano, Middletown, Conn. Padlock. No. 1,359,415; Nov. 16; v. 280; p. 538.
Milsted, Edmund G. (See Lee, A. E., and Milsted.)
Milton, Fred C., Eastside, Oreg. Staging. No. 1,339,661; May 11; v. 274; p. 265.
Milton, William, Guelph, Ontario, Canada. Tension-evener for yarn-winding machines. No. 1,326,950; Jan. 6; v. 270; p. 13.
Milwaukee Auto Engine & Supply Company. (See Traupmann, Raymond J., assignor.)
Milwaukee Chair Company. (See Atwood, Harry A., assignor.)
Milwaukee Corrugating Company. (See Flagge, Phillipp F., assignor.)
Milwaukee Corrugating Company. (See Luedke, August J., assignor.)
Milwaukee Corrugating Company. (See Whetstone, Frank M., assignor.)
Milwaukee Dairy Supply Manufacturing Company. (See Strandt, Gustav, assignor.)
Milwaukee Electric Railway & Light Company, The. (See Mullett, Howard A., assignor.)
Milwaukee Paper Box Company. (See Wade, Frank M., assignor.)
Milwaukee Steel Foundry Co. (See Germanson, Julius M., assignor.)
Mims, James R., Luray, Va. Silo. No. 1,347,284; July 20; v. 276; p. 507.
Minarcik, John L., Portland, Oreg. Noodle-cutter. No. 1,358,973; Nov. 16; v. 280; p. 453.
Mine Safety Appliances Company. (See Birch, Ezekiel B., assignor.)
Mine Safety Appliance Company, The. (See Ryan, John T., assignor.)
Miner, Carl S., assignor to Quaker Oats Company, Chicago, Ill. Alimentary paste. No. 1,349,524; Aug. 10; v. 277; p. 324.
Miner, Everett W., Hartford, Conn. Cutter-holder. No. 1,332,055; Feb. 24; v. 271; p. 699.
Miner, Nelson A., Riverton, Ill. Automatic regulator for steam-boilers. No. 1,335,008; Mar. 30; v. 272; p. 754.
Miner, William H. (See Bock, William A., assignor.)
Miner, William H. (See Dath, Charles E., assignor.)

Digitized by Google

Miner, William H. (See Geiger, William A., assignor.)
Miner, William H. (See Haseltine, Stacy B., assignor.)
Miner, William H. (See Lewis, Goodrich Q., assignor.)
Miner, William H. (See Lounsbury, Harvey J., assignor.)
Miner, William H. (See Mitchell, John R., assignor.)
Miner, William H. (See O'Connor, John F., assignor.)
Miner, William H. (See Strid, Sven J., assignor.)
Miner, William H., Chazy, N. Y. Side bearing for railway-cars. No. 1,357,793; Nov. 2; v. 280; p. 113.
Miner, William H., Chazy, N. Y. Draft-gear for railway-cars. No. 1,357,888; Nov. 2; v. 280; p. 131.
Miner, William H., Chazy, N. Y. Draft-rigging for railway-cars. No. 1,361,478; Dec. 7; v. 281; p. 101.
Minerals Separation Limited. (See Sulman, H. L., and Picard, assignors.)
Minerals Separation North American Corporation. (See Cole, David, assignor.)
Minerals Separation North American Corporation. (See Dolbear, Samuel H., assignor.)
Minerals Separation North American Corporation. (See Edser, E., and Tucker, assignors.)
Minerals Separation North American Corporation. (See Lyster, Fleury J., assignor.)
Minerals Separation North American Corporation. (See Seale, Harry V., and Shellshear, assignors.)
Miners, George L., Biwabik, Minn. Combined reflector and guard for electric lamps. No. 1,334,710; Mar. 23; v. 272; p. 636.
Minert, Theodore R., Milwaukee, Wis. Pump-operating mechanism. No. 1,344,056; June 22; v. 275; p. 661.
Minerva Engine Company, The. (See Johnson, Royal K., assignor.)
Mingle, John R., Anthony, Kans. Corn-header. No. 1,349,847; Aug. 17; v. 277; p. 460.
Mining Safety Device Company, The. (See Nolan, James A., assignor.)
Minneapolis Heat Regulator Company. (See Harlow, Lee H., assignor.)
Minneapolis Heat Regulator Co. (See Myer, Albert P., assignor.)
Minneapolis Knitting Works. (See Ovenshire, Charles E., assignor.)
Minneapolis Threshing Machine Co. (See Hill, Chauncy H., assignor.)
Minnesota Cement Products Company. (See Perl, E. G., and Boss, assignors.)
Minnich, Christian W., Chicago, Ill. Toy cannon. No. 1,362,171; Dec. 14; v. 281; p. 284.
Minnich, Otto J., Boerne, Tex. Fastening device for fence-wires. No. 1,351,959; Sept. 7; v. 278; p. 49.
Minnis, George F. (See Sleight, William W., assignor.)
Minns, Raymond H., Bedford Hills, N. Y. Sash-holder. No. 1,333,272; Mar. 9; v. 272; p. 259.
Minogue, Martin T., Philadelphia, Pa. Reinforced moving-picture-film drive. No. 1,359,821; Nov. 23; v. 280; p. 663.
Minor, Charles C., Chicago, Ill. Photographic objective. No. 1,360,667; Nov. 30; v. 280; p. 897.
Minor, Edward A., Rock Island, Ill. Vise. No. 1,354,991; Oct. 5; v. 279; p. 108.
Minor, Edward L., Marfa, Tex. Fuel-economizer for engines. No. 1,333,558; Mar. 9; v. 272; p. 314.
Minor, Frank W., and R. H. Wood, assignors of one-third to O. Wattson, Richmond, Va. Plural lamp-socket. No. 1,333,182; Mar. 9; v. 272; p. 243.
Minor, Marcus L., Atlanta, Ga. Nutcracker. No. 1,331,351; Feb. 17; v. 271; p. 475.
Minor, William F., P. C. Keller, Cleveland, and T. W. Rolph, Sebring, Ohio, assignors to General Electric Company. Reflector. No. 1,345,796; July 6; v. 276; p. 92.
Minorikawa, Naosaburo, Tokyo, Japan. Stoking apparatus. No. 1,346,379; July 13; v. 276; p. 269.
Minter, John E., Columbus, Ga., assignor to W. S. Dickey, Kansas City, Mo. Automatic and intermittent brander for socket sewer-pipes. No. 1,340,969; May 25; v. 274; p. 640.
Minton, William E., Kansas City, Mo. Well-screen. No. 1,341,755; June 1; v. 275; p. 28.
Mintz, Julius, New York, N. Y. Check-perforator. No. 1,333,089; Mar. 9; v. 272; p. 226.
Minville, H. R. (See Toups, Wilson, assignor.)
Mirk, Paul, New York, N. Y. Thermostatic valve. No. 1,341,016; May 25; v. 274; p. 649.
Mirra, Addieco, *et al.* (See Morelli and Solimeo, assignors.)
Mirra, Emilio, *et al.* (See Morelli and Solimeo, assignors.)
Mirror Rouge Company. (See Waisner, Charles L., assignor.)
Mirrorphon Talking Machine Company. (See Leet, Edward A., assignor.)
Mischke, Charles R. and R. C., Brooklyn, N. Y. Unhairing-machine. No. 1,329,793; Feb. 3; v. 271; p. 83.
Mischke, Reinhardt C. (See Mischke, Charles R. and R. C.)
Misco, Steve, Gary, W. Va. Mail-bag catcher and deliverer. No. 1,336,851; Apr. 13; v. 278; p. 278.
Mise, Tatsuhei, Watakano, assignor to Dai-Nippon Enkei Shinju Kabushiki Kwaisha, Shimo-Ochiai-Mura, Toyotama-Gun, Tokyo-Fu, Japan. Forming artificial pearls. No. 1,353,932; Sept. 28; v. 278; p. 574.
Misener & Irving Manufacturing Co. (See Misener, John I., assignor.)
Misener, John I., assignor to Misener & Irving Manufacturing Co. Inc., Syracuse, N. Y. Conduit-seal. No. 1,351,724; Aug. 31; v. 277; p. 934.
Misener, Joseph A., Niagara Falls, Ontario, Canada. Split pulley. No. 1,359,822; Nov. 23; v. 280; p. 663.
Miske, Adolph, assignor of one-third to E. E. Bolin and one-third to J. E. Eley, Memphis, Tenn. Finger-guard for sewing-machines. No. 1,361,741; Dec. 7; v. 281; p. 153.
Miskella, William J., Chicago, Ill., assignor to The De Vilbiss Manufacturing Company, Toledo, Ohio. Coating articles. No. 1,329,467; Feb. 3; v. 271; p. 24.
Miskin, Arthur R., Idaho Falls, Idaho. Earth-scraper. No. 1,352,301; Sept. 7; v. 278; p. 113.
Mislikowsky, Michael, Yonkers, N. Y. Sanitary container. No. 1,357,072; Oct. 26; v. 279; p. 655.
Missel, Charles L. (See Williams, G. A., Missel, and Lepper.)
Missouri, John M., Montrose, Minn. Air force-pump. No. 1,351,397; Aug. 31; v. 277; p. 871.
Mitchel, Charles F., assignor to Bastian Bros. Company, Rochester, N. Y. Pinwheel. No. 1,352,674; Sept. 14; v. 278; p. 222.
Mitchell, Alexander, Pueblo, Colo. Plow. No. 1,351,782; Sept. 7; v. 278; p. 13.
Mitchell, Anthony B., Thomas, W. Va. Hose-nozzle. No. 1,363,144; Dec. 21; v. 281; p. 526.
Mitchell, Ardon M., Tuckahoe, Mohegan Heights, N. Y., assignor to Mitchell and Grenelle, Inc. Separating magnesium from dolomite. No. 1,340,905; May 25; v. 274; p. 628.
Mitchell, Benjamin A., Garfield, Utah. Drag-classifier. No. 1,354,676; Oct. 5; v. 279; p. 46.
Mitchell, Charles L., Randolph, Nebr. Accelerator for automobiles. No. 1,347,227; July 20; v. 276; p. 495.
Mitchell, Eric C., Vancouver, British Columbia, Canada. Hose connection to nipples. No. 1,346,330; July 13; v. 276; p. 260.
Mitchell, Ernest R., Philadelphia, Pa. Door rabbet-strip. No. 1,350,108; Aug. 17; v. 277; p. 510.
Mitchell, Eugene F., Spokane, Wash. Folding table. No. 1,349,687; Aug. 17; v. 277; p. 429.
Mitchell, Glenn D., assignor, by mesne assignments, to L-W-F Engineering Company, Inc., College Point, N. Y. Strut construction. No. 1,353,538; Sept. 21; v. 278; p. 451.
Mitchell and Grenelle, Inc. (See Mitchell, Ardon M., assignor.)
Mitchell, Henry A., deceased, Shepherd, Tex.; E. W. Love, administrator. Apparatus for heating and ripening honey. No. 1,327,166; Jan. 6; v. 270; p. 54.
Mitchell, James L. (See Dawson, James V., assignor.)
Mitchell, James R., assignor to Lane Manufacturing Company, Montpelier, Vt. Stone-polishing wheel. No. 1,354,325; Sept. 28; v. 278; p. 654.
Mitchell, Jasper D. (See Raley, J. F., and Mitchell.)
Mitchell, John A., Newark, assignor of one-half to A. D. T. Libby, East Orange, N. J. Heel-attaching means. No. 1,343,638; June 15; v. 275; p. 513.
Mitchell, John E., St. Louis, Mo. Portable harvesting and cotton-separating machine. No. 1,332,910; Mar. 9; v. 272; p. 192.
Mitchell, John E., St. Louis, Mo. Boll-breaking and cotton-separating machine. No. 1,332,911; Mar. 9; v. 272; p. 192.
Mitchell, John E., St. Louis, Mo. Portable cotton harvesting and separating machine. No. 1,357,579; Nov. 2; v. 280; p. 71.
Mitchell, John E., and D. Parks, St. Louis, Mo. Log-cutting machine. No. 1,332,912; Mar. 9; v. 272; p. 192.
Mitchell, John E., and D. Parks, St. Louis, Mo. Hull-board construction. No. 1,332,913; Mar. 9; v. 272; p. 192.
Mitchell, John E., and D. Parks, St. Louis, Mo. Hull-board construction. No. 1,348,031; July 27; v. 276; p. 712.
Mitchell, John E., and D. Parks, St. Louis, Mo. Hull-board construction. No. 1,360,132; Nov. 23; v. 280; p. 725.
Mitchell, John E., W. Wolfe, and D. Parks, St. Louis, Mo. Heel-building machine. No. 1,352,802; Sept. 7; v. 278; p. 113.
Mitchell, John L., Greenwich, Conn. Manufacture of lithopone. No. 1,356,387; Oct. 19; v. 279; p. 474.
Mitchell, John R., Evanston, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,355,993; Oct. 19; v. 279; p. 396.
Mitchell, John R., Evanston, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,355,994; Oct. 19; v. 279; p. 396.
Mitchell, John R., Evanston, Ill. assignor to W. H. Miner, Chazy, N. Y. Friction draft-rigging. No. 1,355,995; Oct. 19; v. 279; p. 396.
Mitchell, John R., Evanston, Ill., assignor to W. H. Miner, Chazy, N. Y. Sliding-door check. No. 1,357,244; Nov. 2; v. 280; p. 9.
Mitchell, Jordon H. (See Werner, H. E., and Mitchell.)
Mitchell, Joseph K., Memphis, Tenn. Double-current syringe. No. 1,327,167; Jan. 6; v. 270; p. 54.
Mitchell, Leon, Dorchester, Mass. Dough-dropper for frying doughnuts. No. 1,345,500; July 6; v. 276; p. 34.

Digitized by Google

Alphabetical list of patentees—Continued.

Mitchell, Leon, Dorchester, Mass. Stove. No. 1,347,586; July 27; v. 276; p. 623.
Mitchell, Manuel S., Stockton, Calif. Cylinder for laundry-washers. No. 1,330,948; Feb. 17; v. 271; p. 401.
Mitchell, Moorehouse, Quebec, Quebec, Canada. Fastener for shuttle-tips. No. 1,339,572; May 11; v. 274; p. 248.
Mitchell, Raymond C., Springfield, Ohio. Cam. No. 1,331,076; Feb. 17; v. 271; p. 425.
Mitchell, Raymond C., assignor to The Webster & Perks Tool Company, Springfield, Ohio. Grinding-machine. No. 1,335,905; Apr. 6; v. 273; p. 38.
Mitchell, Raymond C., assignor to The Webster & Perks Tool Company, Springfield, Ohio. Shaft-cooling means for grinding-machines and the like. No. 1,352,303; Sept. 7; v. 278; p. 113.
Mitchell, Reuben A., and F. A. Emerick, Oil City, Pa., assignors of one-third to B. B. Freer, New York, N. Y. Forced-feed and steam generator. No. 1,331,459; Feb. 17; v. 271; p. 495.
Mitchell, Roland C., Oakland, Calif. Portable clamp-socket. No. 1,360,133; Nov. 23; v. 280; p. 725.
Mitchell, Roy, Enid, Okla. Socket-wrench. No. 1,346,505; July 13; v. 276; p. 294.
Mitchell, William, Milwaukee, Wis. Stanchion. No. 1,335,178; Mar. 30; v. 272; p. 786.
Mitchell, William A., East St. Louis, Ill. Draft-regulating device. No. 1,337,786; Apr. 20; v. 273; p. 529.
Mitchell, William C., Grandview, Tenn. Wire-stretcher. No. 1,339,407; May 11; v. 274; p. 216.
Mitchell, William G. (See Watson, Alexander, assignor.)
Mitchell, William M., Louisville, Ky. Rail-anchor. No. 1,333,270; Mar. 9; v. 272; p. 259.
Mitchell, William M., Louisville, Ky. Railway-switch point. No. 1,334,466; Mar. 23; v. 272; p. 591.
Mitchell, William M., Louisville, Ky. Railway-frog. No. 1,335,385; Mar. 30; v. 272; p. 824.
Mitchell, William M., Louisville, Ky. Rail-anchor. No. 1,338,148; Apr. 27; v. 273; p. 667.
Mitchell, William M., Louisville, Ky. Rail-anchor. No. 1,338,149; Apr. 27; v. 273; p. 667.
Mitchiner, James L., Atlanta, Ga. Relay-armature. No. 1,351,674; Aug. 31; v. 277; p. 925.
Mittasch, Alwin. (See Bosch, Mittasch, and Beck.)
Mittelholzer, Ernest, Patchogue, N. Y. Thread-cutting machine for embroidered fabrics. No. 1,335,450; Mar. 30; v. 272; p. 836.
Mittelstaedt, George W., Morton Grove, assignor to Fly Escape Screen Company, Chicago, Ill. Fly-escape screen. (Reissue.) No. 14,987; Nov. 16; v. 280; p. 551.
Mitten, Philip J., Philadelphia, Pa. Mileage or like ticket. No. 1,347,867; July 27; v. 276; p. 680.
Mittendorf, William R., assignor to Todd Protectograph Company, Inc., Rochester, N. Y. Check-writer. No. 1,355,996; Oct. 19; v. 279; p. 396.
Mittet, Hans P., Aalesund, Norway. Apparatus for hard-twisting of fine and thick threads. No. 1,352,524; Sept. 14; v. 278; p. 191.
Mittinger, George E., Youngstown, Ohio. Gasolene-dispensing device. No. 1,360,134; Nov. 23; v. 280; p. 725.
Mitton, Robert E., Salt Lake City, Utah. Aeroplane control. No. 1,332,743; Mar. 2; v. 272; p. 109.
Mix, Edwin S., assignor to North East Electric Company, Rochester, N. Y. Box. No. 1,352,016; Sept. 7; v. 278; p. 59.
Mix, Melville W. (See Seabrook, Bagster R., assignor.)
Mix, Melville W., Mishawaka, Ind. Airplane or analogous strut member. No. 1,338,836; May 4; v. 274; p. 34.
Mix, Melville W., Mishawaka, Ind. Knockdown airplane-fuselage and process therefor. No. 1,354,677; Oct. 5; v. 279; p. 46.
Mix, Melville W., assignor to Dodge Manufacturing Company, Mishawaka, Ind. Laminated wheel-filler unit. No. 1,336,254; Apr. 6; v. 273; p. 104.
Mix, Robert S., Cohocton, N. Y. Harrow-shoe. No. 1,342,454; June 8; v. 275; p. 217.
Miyamoto, Aki, San Francisco, Calif. Catamenial belt. No. 1,356,937; Oct. 26; v. 279; p. 628.
Miyasaki, Yuske, McKees Rocks, Pa. Locking device for levers. No. 1,345,618; July 6; v. 276; p. 57.
Mize, Frederick, Oakland, Calif. Bolt-holder. No. 1,355,560; Oct. 12; v. 279; p. 272.
Mizer, Joseph J., and V. Jakob, assignors to Walker Manufacturing Company, Racine, Wis. Lifting-jack. No. 1,345,797; July 6; v. 276; p. 92.
Mlekush, Francis, Rankin, Pa. Smoker. No. 1,328,183; Jan. 13; v. 270; p. 305.
Moa Iron & Development Corporation. (See Hayward, C. R., Stillman, and Schleicher, assignors.)
Moak, Harris, Brooklyn, N. Y. Closure for milk-bottles and the like. No. 1,361,394; Dec. 7; v. 281; p. 83.
Moard, Eric, assignor to Bevin Brothers Manufacturing Company, East Hampton, Conn. Signaling device. No. 1,332,991; Mar. 9; v. 272; p. 207.
Moard, Ferdinand G., Turtle Creek, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,333,626; Mar. 16; v. 272; p. 387.
Moard, Ferdinand G., Turtle Creek, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,338,321; Apr. 27; v. 273; p. 700.
Moats, Ortus E., Chicago, Ill., assignor to Western Wheeled Scraper Company, Aurora, Ill. Earth-excavating and wagon-loading machine. No. 1,329,673; Feb. 3; v. 271; p. 61.
Moats, Ortus E., Chicago, assignor to Western Wheeled Scraper Company, Aurora, Ill. Road planing and finishing machine. No. 1,335,906; Apr. 6; v. 273; p. 38.
Moats, Ortus E., Chicago, and J. D. Benbow, Aurora, assignors to Western Wheeled Scraper Company, Aurora, Ill. Dump-car. No. 1,351,114; Aug. 31; v. 277; p. 813.
Moats, Ortus E., Chicago, Ill.; J. B. Rhodes, Kalamazoo, Mich., and J. D. Benbow, Aurora, assignors to Western Wheeled Scraper Company, Aurora, Ill. Grading-machine. No. 1,357,245; Nov. 2; v. 280; p. 9.
Moberg, Paul A., Chicago, Ill. Double envelop. No. 1,356,872; Oct. 26; v. 279; p. 616.
Moburg, Frank O. (See Hedenburg, Oscar F., assignor.)
Mock, Frank C., assignor to Stromberg Motor Devices Company, Chicago, Ill. Carbureter. No. 1,339,214; May 4; v. 274; p. 105.
Mock, Hugo, New York, N. Y. Strainer. No. 1,343,679; June 15; v. 275; p. 522.
Mock, Hugo, New York, N. Y. Heat-insulating device. No. 1,349,727; Aug. 17; v. 277; p. 437.
Mock, James C., and B. F. Williston, Detroit, Mich., assignors to J. M. Fitzgerald, River Forest, Ill. Lock. No. 1,348,234; Aug. 3; v. 277; p. 21.
Model Form Company. (See Luery, M., and Nelson, assignors.)
Modern Broom Machine Company. (See Duvall, G. W., and Beebe, assignors.)
Modern Broom Machinery Company. (See Duvall, G. W., Beebe, and Smith, assignors.)
Modern Tool Company. (See Harrison, Charles P., assignor.)
Modern Torch Co. (See Errett, Thomas A., assignor.)
Modrell, Arthur E., near Saxton, Mo. Automatic tractor-oiler. No. 1,350,559; Aug. 24; v. 277; p. 645.
Modrzejeski, Joseph, Milwaukee, Wis. Baby-carriage. No. 1,344,811; June 29; v. 275; p. 874.
Moe, Andrew O., Toppenish, Wash. Fruit-cleaning machine. No. 1,357,794; Nov. 2; v. 280; p. 113.
Moe, Jacob, Trondhjem, Norway. Rotating grate for automatic stoking. No. 1,342,026; June 1; v. 275; p. 81.
Moeglin, Alfred, Newark, N. J. Internal-combustion engine. No. 1,351,788; Sept. 7; v. 278; p. 13.
Moeglin, Laurent, Toulouse, France. Automatic feeding-governor for steam-boilers. No. 1,333,669; Mar. 16; v. 272; p. 396.
Moehle, Walter, Brooklyn, N. Y. Hot-water or ice bag. No. 1,340,236; May 18; v. 274; p. 431.
Moeller, Gustav W., Harris, Iowa. Accounting and record device. No. 1,351,864; Sept. 7; v. 278; p. 30.
Moeller, Henry H., Council Bluffs, Iowa. Valve-controlling means for internal-combustion engines. No. 1,362,500; Dec. 14; v. 281; p. 348.
Moeller, Joseph F., assignor to Moeller Machine Company, Chicago, Ill. Jack-truck. No. 1,348,294; Aug. 3; v. 277; p. 33.
Moeller, Leonard J., *et al.* (See Guy, Frederick M., assignor.)
Moeller Machine Company. (See Moeller, Joseph F., assignor.)
Moeller, Max E., Brooklyn, N. Y. Hydrometer-syringe. No. 1,331,165; Feb. 17; v. 271; p. 441.
Moeller, William J., Wyoming, assignor to The Philip Carey Manufacturing Company, Lockland, Ohio. Elastic or expansible paving-joint. (Reissue.) No. 14,871; June 1; v. 275; p. 156.
Moen, Hans J. (See Hyatt, J. E., and Moen.)
Moeser, Frank. (See Candee, Bertram C., and Moeser.)
Moest, Martin, Höchst-on-the-Main, and E. Schirm, Unterliederbach, near Höchst-on-the-Main, Germany, assignors, by mesne assignments, to The Chemical Foundation, Inc. Manufacture of organic acids and acid anhydrids. No. 1,337,253; Apr. 20; v. 273; p. 428.
Moesta, Rudolph J. H. (See Fisher, E. G., and Moesta.)
Moffat, James W., Toronto, Ontario, Canada. Process and apparatus for the reduction of metallic oxid ores. No. 1,348,889; Aug. 10; v. 277; p. 198.
Moffat, John, Toronto, Ontario, Canada. Smoke-consumer. No. 1,332,914; Mar. 9; v. 272; p. 192.
Moffatt, J. R., and R. S. Kelso, assignors to Union Special Machine Company, Chicago, Ill. Presser-feet. No. 1,355,160; Oct. 12; v. 279; p. 194.
Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Cross-thread-laying mechanism for sewing-machines. No. 1,327,348; Jan. 6; v. 270; p. 87.
Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Ruffling mechanism for sewing-machines. No. 1,328,885; Jan. 27; v. 270; p. 504.
Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Seam for sewed articles. No. 1,331,717; Feb. 24; v. 271; p. 564.
Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Stitch-forming mechanism for sewing-machines. No. 1,334,626; Mar. 23; v. 272; p. 621.
Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Presser-foot for sewing-machines. No. 1,339,121; May 4; v. 274; p. 89.

Digitized by Google

Moffatt, James R., Chicago, Ill., assignor to Union Special Machine Company. Stitch-forming mechanism for sewing-machines. No. 1,350,326; Aug. 24; v. 277; p. 598.
Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine. No. 1,352,675; Sept. 14; v. 278; p. 222.
Moffatt, James R., and R. S. Kelso, assignors to Union Special Machine Company, Chicago, Ill. Sewing-machine. No. 1,332,511; Mar. 2; v. 272; p. 65.
Moffatt, James R., and R. S. Kelso, assignors to Union Special Machine Company, Chicago, Ill. Thread-cutter for sewing-machines. No. 1,332,512; Mar. 2; v. 272; p. 65.
Moffatt, James R., and R. S. Kelso, assignors to Union Special Machine Company, Chicago, Ill. Loop-retainer for sewing-machines. No. 1,350,931; Aug. 24; v. 277; p. 715.
Moffatt, James R., and R. S. Kelso, assignors to Union Special Machine Company, Chicago, Ill. Throat-plate for sewing-machines. No. 1,358,567; Nov. 9; v. 280; p. 327.
Moffett, Robert L., Chicago, Ill. Kitchen-knife. No. 1,359,722; Nov. 23; v. 280; p. 643.
Moffett, Thomas S., Walla Walla, Wash. Combined neck-yoke and coupling means. No. 1,357,889; Nov. 2; v. 280; p. 131.
Moffett, Thomas S., assignor of one-half to A. O. Johnson, Walla Walla, Wash. Weeding implement. No. 1,348,438; Aug. 3; v. 277; p. 61.
Moffett, Thomas S., assignor of one-half to A. O. Johnson, Walla Walla, Wash. Harrow. No. 1,362,030; Dec. 14; v. 281; p. 257.
Mogensen, Henry J., deceased; L. Mogensen, administratrix, Denver, Colo. Dispenser. No. 1,355,562; Oct. 12; v. 279; p. 272.
Mogensen, Lillie, administratrix. (See Mogensen, Henry J.)
Mogni, Charles M., New York, N. Y. Gas-heater. No. 1,344,555; June 22; v. 275; p. 759.
Mogué, Charles L. F., La Havre, France. Starting device for explosion-engines. No. 1,356,648; Oct. 26; v. 279; p. 572.
Mohammed, Gus, Detroit, Mich. Combination chair and ironing-board. No. 1,359,723; Nov. 23; v. 280; p. 643.
Mohan, Joseph S., Cleveland, Ohio. Leak-stopper. No. 1,334,778; Mar. 23; v. 272; p. 650.
Mohanec, Mike, *et al.* (See Beshenich, Matija, assignor.)
Mohler, Charles M., Richmond, Ind. Spring-saddle and shock-absorber. No. 1,339,779; May 11; v. 274; p. 287.
Mohler, Charles M., Richmond, Ind. Spring-saddle and shock-absorber. No. 1,360,135; Nov. 23; v. 280; p. 725.
Mohler, James V., assignor of one-half to E. H. Hall, Oelwein, Iowa. Metal car-roof. No. 1,356,649; Oct. 26; v. 279; p. 572.
Mohler, Thomas B., and O. Ludekens, Alameda, assignors to The Moludite Co., San Francisco, Calif. Wood-like article of manufacture and making same. No. 1,357,647; Nov. 2; v. 280; p. 84.
Mohme, Charlie, assignor of one-half to A. Kulas, Brawley, Calif. Poison-bottle. No. 1,355,161; Oct. 12; v. 279; p. 194.
Mohn, Augustus A., London, England. Liquid-hydrocarbon burner of the injection type. No. 1,339,709; May 11; v. 274; p. 274.
Mohn, Finn, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Feeding-head. No. 1,355,616; Oct. 12; v. 279; p. 282.
Mohn, Finn, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Clutch mechanism. No. 1,356,650; Oct. 26; v. 279; p. 572.
Mohn, John, Detroit, Mich. Safety-stopper. No. 1,363,804; Dec. 28; v. 281; p. 694.
Mohr, Albert F., Laporte, Ind., assignor to Andrew Motor Manufacturing Company, Milwaukee, Wis. Power-transmission device. No. 1,331,518; Feb. 24; v. 271; p. 527.
Mohr, Charles L., assignor to Mohr Lino-Saw Company, Chicago, Ill. Type-bar-casting machine. No. 1,355,241; Oct. 12; v. 279; p. 210.
Mohr, Charles L., assignor to Mohr Lino-Saw Company, Chicago, Ill. Sawing metals. No. 1,358,971; Nov. 16; v. 280; p. 452.
Mohr, Charles L., assignor to Mohr Lino-Saw Company, Chicago, Ill. Guide for linotype-machines. No. 1,358,972; Nov. 16; v. 280; p. 452.
Mohr Company, Inc. (See Mohr, Otto H., assignor.)
Mohr, Henry, Longford, Tasmania, assignor to A. G. Webster & Sons, Ltd., Hobart, Australia. Auxiliary cycle-rest. No. 1,357,890; Nov. 2; v. 280; p. 131.
Mohr Lino-Saw Company. (See Mohr, Charles L., assignor.)
Mohr, Otto H., Oakland, Calif., assignor to Mohr Company, Inc. Color-matching light. No. 1,330,028; Feb. 3; v. 271; p. 127.
Mohr, Otto H., Oakland, Calif., assignor to Mohr Company, Inc. Frame for lighting-fixtures. No. 1,330,029; Feb. 3; v. 271; p. 128.
Mohun, John L., New York, N. Y., assignor to Chicago Railway Equipment Company, Chicago, Ill. Combination brake-beam guide and safety-guard. No. 1,357,336; Nov. 2; v. 280; p. 26.
Moineau, René J. L., Paris, France. Landing-carriage for aeroplanes. No. 1,360,668; Nov. 30; v. 280; p. 898.
Moir, Mabel, San Francisco, Calif. Bed. No. 1,350,327; Aug. 24; v. 277; p. 598.
Moir, William, Chicago, Ill. Toy vehicle. No. 1,350,232; Aug. 17; v. 277; p. 534.
Moise, Harmon D., Sumter, S. C., assignor to The Hoseless Sprinkler Company, a Corporation of South Carolina. Sprinkling attachment for garden-faucets. No. 1,338,242; Apr. 27; v. 273; p. 685.
Moist, Rogers E., Springfield, Mo. Hail-proof wire-woven roofing or sheathing. No. 1,362,887; Dec. 21; v. 281; p. 476.
Mojico, Peter, Hamtramck, Mich. Control-valve. No. 1,358,232; Nov. 9; v. 280; p. 259.
Mojonnier Bros. Co. (See Mojonnier, Julius J., assignor.)
Mojonnier, Julius J., Oak Park, Ill., assignor to Mojonnier Bros. Co., Portland, Me. Centrifuge. No. 1,334,109; Mar. 16; v. 272; p. 478.
Mojonnier, Julius J., Oak Park, assignor, by mesne assignments, to Mojonnier Bros. Co., Chicago, Ill. Laboratory-dish. No. 1,336,043; Apr. 6; v. 273; p. 64.
Mojonnier, Oliver W., Oak Park, Ill. Can-polishing machine. No. 1,338,949; May 4; v. 274; p. 55.
Mojonnier, Oliver W., Oak Park, Ill. Making evaporated milk. No. 1,362,728; Dec. 21; v. 281; p. 445.
Moken, Joseph, Newark, N. J. Clothespin. No. 1,330,211; Feb. 10; v. 271; p. 194.
Molas, Clodion, Los Angeles, Calif., assignor, by mesne assignments to California Burdett Oxygen Company. Oxygen-acetylene welding-torch. No. 1,360,431; Nov. 30; v. 280; p. 851.
Molas, Edouard E., Paris, France. Apparatus for preparation of inert gases. No. 1,327,769; Jan. 13; v. 270; p. 228.
Moler, Harvey T., Philadelphia, Pa. Fastening device for ear ornaments. No. 1,344,556; June 22; v. 275; p. 759.
Molesworth, Jehiel E. (See Horton, R. W., and Molesworth.)
Molina, Ynocente J., Douglas, Ariz. Safety indicator and alarm. No. 1,328,387; Jan. 20; v. 270; p. 381.
Moline, Emil E., Sioux City, Iowa. Floor-waxing device. No. 1,343,223; June 15; v. 275; p. 433.
Moline Heat. (See Shurtleff, Wilfred, assignor.)
Moline Plow Company. (See Cook, Willard J., assignor.)
Moline Mill Manufacturing Company. (See Gerwin, Julius A., assignor.)
Moline Plow Company. (See Boda, Joseph, assignor.)
Moline Plow Company. (See Dickinson, Harry S., assignor.)
Moline Plow Company. (See Funk, T. B., and Hunt, assignors.)
Moline Plow Company. (See Funk, Truman B., assignor.) (Reissue.)
Moline Pressed Steel Company. (See Newman, John J., assignor.)
Moll, Dewey R., Grand Rapids, Mich. Motor-car lock. No. 1,335,593; Mar. 30; v. 272; p. 863.
Moll, Julius, Mascoutah, Ill. Egg-tester. No. 1,360,987; Nov. 30; v. 280; p. 960.
Moller, Carl E., Jamestown, N. Y. Sash-rod for curtains. No. 1,326,951; Jan. 6; v. 270; p. 13.
Möller, Erwin, assignor, by mesne assignments, to The Chemical Foundation, Inc., Brackwede, Germany. Separating suspended particles from gases. No. 1,357,466; Nov. 2; v. 280; p. 50.
Möller, Erwin, Brackwede, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Electric means for the separation of suspended matter from gaseous fluids. No. 1,362,128; Dec. 14; v. 281; p. 277.
Moller, Tonies F., Atlantic Highlands, N. J. Recoil-absorbing attachment for firearms. No. 1,334,467; Mar. 23; v. 272; p. 591.
Möllerhöj, Johannes S., Frederiksberg, near Copenhagen, Denmark. Arrangement and connector for the jointing of electrical wires. No. 1,346,506; July 13; v. 276; p. 294.
Moloney, Matthew, assignor to Vigilant Automatic Fire Alarm Company Limited, Christchurch, New Zealand. Thermostatic circuit-closer. No. 1,330,892; Feb. 17; v. 271; p. 389.
Molony, Stuart B., Wellesley Hills, Mass., assignor to Michigan Chemical Company. Rubber vulcanization and product thereof. No. 1,343,224; June 15; v. 275; p. 433.
Molstad, Alfred, Lawton, Iowa. Engine-valve packing. No. 1,363,894; Dec. 28; v. 281; p. 711.
Molthan, John H., Clear Lake township, Deuel county, S. D. Lantern-bail. No. 1,333,764; Mar. 16; v. 272; p. 413.
Molthan, John H., Clear Lake township, Deul county, S. D. Lantern-bail. No. 1,358,385; Nov. 9; v. 280; p. 291.
Moltzner, Karl G., Anderson, Calif., assignor of one-fourth to T. A. Marlowe, Portland, Oreg. Fruit cutting and pitting machine. No. 1,334,162; Mar. 16; v. 272; p. 488.
Moludite Co., The. (See Mohler, T. B., and Ludekens, assignors.)
Molyneux, Enoch T., Grace City, N. Dak. Hog catcher and carrier. No. 1,359,905; Nov. 23; v. 280; p. 680.
Molyneux, Fred, Cadishead, England. Variable-speed transmission-gear. No. 1,353,775; Sept. 21; v. 278; p. 499.

Digitized by Google

Molyneux, George E., assignor to The Singer Manufacturing Company, Bayonne, N. J. Feeding mechanism for sewing-machines. No. 1,355,242; Oct. 12; v. 279; p. 210.

Molyneux, George E., assignor to The Singer Manufacturing Company, Bayonne, N. J. Feeding mechanism for sewing-machines. No. 1,356,938; Oct. 26; v. 279; p. 629.

Momitsa, Nikola Y., Granite City, Ill. Vulcanizing apparatus. No. 1,362,729; Dec. 21; v. 281; p. 445.

Monahan, James F., Newark, assignor to Edison Storage Battery Company, West Orange, N. J. Electric safety-lantern. No. 1,345,212; June 29; v. 275; p. 950.

Monahan, John C., Philadelphia, Pa. Signal device for fire-extinguishers. No. 1,356,303; Oct. 19; v. 279; p. 458.

Monahan, John C., Duluth, Minn. Sign. No. 1,357,409; Nov. 2; v. 280; p. 40.

Monahan, Louis J., deceased, Oskosh, Wis.: B. J. Daly, administrator. Air-hose stand. No. 1,360,559; Nov. 30; v. 280; p. 876.

Monahan Rotary Engine Corporation. (See Sullivan, Patrick J. M., assignor.)

Monahan, Thomas G. (See Cupp, Harry N., assignor.)

Monahan, William P., *et al.* (See Bonney, Bick R., assignor.)

Monarch Lithographing Company. (See Rothenhoefer, Frederick F., assignor.)

Monarch Metal Products Company. (See Lane, Alfred M., assignor.)

Monarch Tag Company, The. (See Kohnle, Frederick, assignor.)

Mondor, Hector J., Holyoke, Mass. Device for making and forming cigarettes. No. 1,363,895; Dec. 28; v. 281; p. 711.

Mondoux, A. A. (See Bourbonniere, Henri J., assignor.)

Money, Chester E., Chicago, Ill. Cloth-winding machine. No. 1,340,178; May 18; v. 274; p. 420.

Money, William C., assignor of one-half to H. Bogorad, Washington, D. C. Lighting attachment for phonographs. No. 1,351,675; Aug. 31; v. 277; p. 925.

Monihan, Daniel J., assignor to Griswold Manufacturing Company, Erie, Pa. Oven. No. 1,342,455; June 8; v. 275; p. 218.

Monitor Controller Company. (See Whittingham, G. H., and Holmes, assignors.)

Monitor Controller Company of Baltimore. (See Whittingham, George H., assignor.)

Monitor Stove & Range Company, The. (See Doyle, W. J., and Wollenhaupt, assignors.)

Monk, Sidney G., Plymouth, England. Perpetual calendar. No. 1,360,004; Nov. 23; v. 280; p. 699.

Monkhorst, Hermanus G., Delft, Netherlands. Automatic corking-machine. No. 1,339,904; May 11; v. 274; p. 310.

Monkhorst, Hermanus G., Delft, Netherlands. Tube-knocker. No. 1,341,277; May 25; v. 274; p. 699.

Monks, Frederick I., Houston, Tex. Mattress-support. No. 1,353,260; Sept. 21; v. 278; p. 897.

Monnier, Charles M. E. L., Vaison, France. Sparking plug for internal-combustion engines. No. 1,334,627; Mar. 23; v. 272; p. 621.

Monnot, Edward L., Canton, Ohio. Electromechanical jack. No. 1,363,991; Dec. 28; v. 281; p. 730.

Monofyer Company, The. (See Radabaugh, Roy R., assignor.)

Monolithic Machine Company. (See Goodlett, Edgar N., assignor.)

Monroe Calculating Machine Company. (See Burne, James C., assignor.)

Monroe Calculating Machine Company. (See Phinney, Edgar E., assignor.)

Monroe, Don C., Shawnee, Okla. Automatic releasing screwdriver. No. 1,333,436; Mar. 9; v. 272; p. 290.

Monroe, Don C., assignor to Monroe Power Screw Driver Company, Shawnee, Okla. Screwdriver. No. 1,333,437; Mar. 9; v. 272; p. 290.

Monroe, George A. C., Geneva, Ill. Knockdown bed-spring. No. 1,328,751; Jan. 20; v. 270; p. 449.

Monroe, John H. (See Lusk, Raymond F., assignor.)

Monroe, John M., Hettinger, N. D. Road-grader. No. 1,333,504; Mar. 9; v. 272; p. 303.

Monroe, Kenneth P., Washington, D. C. Manufacture of furfural and volatile organic acids from extracted corncob pentosan. No. 1,357,467; Nov. 2; v. 280; p. 50.

Monroe Power Screw Driver Company. (See Monroe, Don C., assignor.)

Monroe, William, Hooper, Nebr. Clasp-hook. No. 1,350,033; Aug. 17; v. 277; p. 495.

Monson, Martin G. A., Redtop, Minn. Brake for carriers. No. 1,335,594; Mar. 30; v. 272; p. 863.

Montag, Charles. (See Park, George I., assignor.)

Montague, Edward, Chicago, Ill. Valve. No. 1,345,548; July 6; v. 276; p. 44.

Montague, Harold E., New York, N. Y., assignor of one-half to E. A. Fritze, Philadelphia, Pa. Submarine boat. No. 1,335,518; Mar. 30; v. 272; p. 849.

Montague Iron Works Corporation. (See Ewen, Malcolm F., assignor.)

Montague, Merrell S., assignor of one-half to J. W. Jones, Rigby, Idaho. Beet-harvester. No. 1,337,481; Apr. 20; v. 273; p. 471.

Montaruli, Giuseppe V., Rome, Italy. Construction of ships. No. 1,345,213; June 29; v. 275; p. 950.

Montaruli, Giuseppe V., Rome, Italy. Construction of ships. No. 1,346,760; July 13; v. 276; p. 345.

Monteath, Lawrence M., New Plymouth, New Zealand. Washer for bolts and the like. No. 1,356,873; Oct. 26; v. 279; p. 616.

Monteith, Caroline, South Orange, N. J. Juvenile printing-block. No. 1,340,072; May 11; v. 274; p. 342.

Montelius, Ernst E. L., New York, N. Y. Door-lock. No. 1,352,304; Sept. 7; v. 278; p. 113.

Montelius, Ira H., Portland, Oreg. Draft-book. No. 1,346,906; July 20; v. 276; p. 432.

Montgomery, Beauchamp H., and J. B. B. Dingwall; said Dingwall assignor of his one-half to J. E. Dingwall, Toronto, Ontario, Canada. Hose-reel. No. 1,354,504; Oct. 5; v. 279; p. 11.

Montgomery, Harry A., Baltimore, Md. Portable testing apparatus for water-distributing systems of railway passenger-cars. No. 1,353,810; Sept. 21; v. 278; p. 506.

Montgomery, James H., Butte, Mont. Grease-dispensing device. No. 1,338,519; Apr. 27; v. 273; p. 737.

Montgomery, James W., Thomasville, Ga. Combined harrow and cultivator. No. 1,350,376; Aug. 24; v. 277; p. 608.

Montgomery, Julian E., Wheeling, W. Va. Friction-drive for the top rolls of rolling-mills. No. 1,342,343; June 1; v. 275; p. 142.

Montgomery, Leon F., *et al.* (See Grosjean, James E., assignor.)

Montgomery, Lewis A., Birmingham, Ala., assignor of one-half to J. M. Richens, Jacksonville, Fla. Passenger railway-car seat or chair. No. 1,329,988; Feb. 3; v. 271; p. 120.

Montgomery, Robert E., Lawton, Okla. Cotton-seed linter. No. 1,327,724; Jan. 13; v. 270; p. 219.

Montgomery, Willard P., Pittsburgh, Pa. Can-punching guide and cover. No. 1,361,395; Dec. 7; v. 281; p. 83.

Montgomery, William S., Detroit, Mich. Keyhole guard and lock. No. 1,359,190; Nov. 16; v. 280; p. 492.

Montgomery, Zach J., Frankfort, Ky. Insole for shoes. No. 1,340,906; May 25; v. 274; p. 628.

Montine, Joseph F., Chicago, Ill. Support for elevated cable-tracks. No. 1,344,923; June 29; v. 275; p. 893.

Montine, Joseph F., Chicago, Ill. Carrier-truck for overhead transportation systems. No. 1,344,924; June 29; v. 275; p. 895.

Montine, Joseph F., Chicago, Ill. Electric switch. No. 1,358,093; Nov. 9; v. 280; p. 232.

Montross, Frederick L., assignor of one-half to himself and one-half to H. A. Montross, Camden, N. J. Exhaust-gas heater for automobiles. No. 1,339,122; May 4; v. 274; p. 89.

Montross, Harry A. (See Montross, Frederick L., assignor.)

Montuori, Felix C., assignor of one-half to C. M. Gearhart, Washington, D. C. Dental casting-machine. No. 1,352,080; Sept. 7; v. 278; p. 71.

Moock, Roy L., Massillon, Ohio. Piston. No. 1,335,179; Mar. 30; v. 272; p. 786.

Moody, Alonzo D., Tallapoosa, Ga. Jar-closure cap. No. 1,363,896; Dec. 28; v. 281; p. 711.

Moody, Daniel W., Chicago, Ill. Occupant-operated vehicle and steering apparatus. No. 1,327,960; Jan. 13; v. 270; p. 263.

Moody, Herbert A., Turners Falls, Mass. Gate-valve. No. 1,328,752; Jan. 20; v. 270; p. 449.

Moody, Herbert R., and L. H. Friedburg, New York, N. Y. Treating fibers. No. 1,357,580; Nov. 2; v. 280; p. 71.

Moody, Jason B., Houston, Tex. Dispensing-vehicle. No. 1,327,248; Jan. 6; v. 270; p. 69.

Moody, Jason B., Houston, Tex. Self-serving vehicle-store. No. 1,355,408; Oct. 12; v. 279; p. 242.

Moody, John P. (See Moody, William F., assignor.)

Moody, Joseph F., Augusta, Kans. Gripping device. No. 1,356,458; Oct. 19; v. 279; p. 488.

Moody, Lewis F., Philadelphia, Pa. Hydraulic turbine. No. 1,341,859; June 1; v. 275; p. 49.

Moody, Mason C., Fairfield, Ala. Automobile-heater. No. 1,348,032; July 27; v. 276; p. 712.

Moody, Philip E., *et al.* (See Hachmann, F., and Wilson, assignors.)

Moody, Philip E., *et al.* (See Hachmann, Frederick, assignor.)

Moody, Thomas J., assignor of one-third to M. L. Bean and one-third to C. R. Turner, Petersburg, Ill. Barrel. No. 1,363,145; Dec. 21; v. 281; p. 526.

Moody, Walter S., Pittsfield, Mass., assignor to General Electric Company. Reinforcement for electrical windings. No. 1,331,077; Feb. 17; v. 271; p. 425.

Moody, William E. (See Newdick, N. A., and Moody.)

Moody, William E. (See Wilkins, O., and Moody.)

Moody, William E., Columbus, Ohio, assignor to J. E. Jones, Switchback, W. Va. Packing. No. 1,353,840; Sept. 28; v. 278; p. 556.

Moody, William F., assignor of one-tenth to J. P. Moody, Denver, Colo. Folding camp-berth. No. 1,346,043; July 6; v. 276; p. 142.

Mooers, Benjamin M., San Francisco, and L. E. Warner, Berkeley, assignor to Motor Protector Manufacturing Company, San Francisco, Calif. Time-limit fuse. No. 1,361,396; Dec. 7; v. 281; p. 83.

Digitized by Google

Mooers, Louis P., Cincinnati, assignor to The Cleveland Trust Company, Cleveland, Ohio. Piston for internal-combustion motors. No. 1,347,819; July 27; v. 276; p. 669.
Mook, Joseph O., Kankakee, Ill. Traction attachment for automobiles. No. 1,349,083; Aug. 10; v. 277; p. 236.
Moolten, Raphael J., New York, N. Y. Sanitary mouth and lip protector. No. 1,342,968; June 8; v. 275; p. 319.
Moomaw, Henry E., Chattanooga, Tenn. Sheet-metal roofing-plates. No. 1,329,794; Feb. 3; v. 271; p. 83.
Moomy, Joseph G., Erie, Pa. Wrench mechanism. No. 1,345,619; July 6; v. 276; p. 57.
Moon Brothers Manufacturing Company. (See Drew, John W., assignor.)
Moon Brothers Manufacturing Company. (See Zingsheim, Frederick W., assignor.)
Moon, Frank, Oakland, Calif., assignor to Moon Tractor Co., San Francisco, Calif. Transmission mechanism for tractors. No. 1,351,485; Aug. 31; v. 277; p. 888.
Moon, Freeman S., Jr. (See Anderson, E., and Moon.)
Moon, George A., San Francisco, Calif. Shoe-fastening. No. 1,358,647; Nov. 9; v. 280; p. 343.
Moon, George C., Cranford, N. J. Wire rope. No. 1,348,033; July 27; v. 276; p. 713.
Moon-Hopkins Billing Machine Company. (See Harvey, Corbin L., assignor.)
Moon-Hopkins Billing Machine Co. (See Hopkins, Hubert, assignor.)
Moon-Hopkins, Billing Machine Company. (See Thieme, O., and Mueller, assignors.)
Moon, John C., St. Louis, Mo. Pump. No. 1,349,218; Aug. 10; v. 277; p. 263.
Moon Tractor Co. (See Moon, Frank, assignor.)
Moon, William F., Milwaukee, Wis. Yarn-speck remover. No. 1,334,669; Mar. 23; v. 272; p. 629.
Moon, William F., Milwaukee, Wis. Yarn-speck remover. No. 1,336,148; Apr. 6; v. 273; p. 84.
Mooney, Dermot J. (See Brown, E. E., and Mooney.)
Mooney, Dermot J., London, England. Metal construction. No. 1,357,073; Oct. 26; v. 279; p. 655.
Mooney, Dermot J., and D. H. Emby, London, England. Metal construction. No. 1,360,774; Nov. 30; v. 280; p. 918.
Mooney, Frank M., Montreal, Quebec, Canada. Conversion of chromate and bichromate of sodium and potassium to chromic oxid and sulfate. No. 1,330,131; Feb. 10; v. 271; p. 179.
Mooney, Norman J., San Francisco, Calif. Tobacco-pipe. No. 1,356,388; Oct. 19; v. 279; p. 474.
Mooney, William H., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Ignition apparatus. No. 1,348,368; Aug. 3; v. 277; p. 47.
Moore, Albert W. (See Bowersox, Joseph W., assignor.)
Moore, Alfred M., assignor to Moore & Company, Malden, Mass. Hardening and annealing furnace. No. 1,341,661; June 1; v. 275; p. 9.
Moore, Ambrose L., Sr., New Orleans, La. Rivet holding and transporting device. No. 1,331,718; Feb. 24; v. 271; p. 565.
Moore, Ammon W., McKeesport, Pa. Fire-extinguisher and gas-well capper. No. 1,345,214; June 29; v. 275; p. 950.
Moore, Asbury, Seneca, S. C. Plow. No. 1,349,623; Aug. 17; v. 277; p. 416.
Moore, Augustus E., Brooklyn, N. Y. Attachment for pneumatic tools. No. 1,360,136; Nov. 23; v. 280; p. 726.
Moore, Benjamin, & Co. (See Bryce, Clarence H., assignor.)
Moore, Benjamin S. (See Hellmund, R. E., and Moore.)
Moore, Benjamin S. (See Hellmund and Moore.)
Moore, Benjamin S., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Shaft-bearing. No. 1,332,056; Feb. 24; v. 271; p. 629.
Moore Brothers Company. (See Dabrowski, Joseph M., assignor.)
Moore, Byron L., Buffalo, N. Y. Key-switch. No. 1,341,719; June 1; v. 275; p. 21.
Moore, Charles A., St. Paul, Minn. Air-circulating apparatus for cars. No. 1,344,057; June 22; v. 275; p. 661.
Moore, Charles A., St. Paul, Minn. Heater. No. 1,352,676; Sept. 14; v. 278; p. 222.
Moore, Charles B., Evanston, Ill. Rail-anchor. No. 1,339,123; May 4; v. 274; p. 89.
Moore, Charles E., Terre Haute, Ind. Rim, tire, and wheel carrier for automobiles. No. 1,327,626; Jan. 13; v. 270; p. 200.
Moore, Charles W., Indianapolis, Ind. Piston-ring. No. 1,328,289; Jan. 20; v. 270; p. 362.
Moore, Christian, Akron, Ohio. Sound-recording means. No. 1,335,595; Mar. 30; v. 272; p. 863.
Moore, Claude, Cedar Rapids, Iowa. Self-cleaning rake. No. 1,338,459; Apr. 27; v. 273; p. 726.
Moore & Company. (See Moore, Alfred M., assignor.)
Moore, David D., Enfield, Va. Toy. No. 1,342,344; June 1; v. 275; p. 143.
Moore, David H., Port Clinton, Ohio. Vehicle-tire. No. 1,352,305; Sept. 7; v. 278; p. 114.
Moore, David P., South Bend, Ind. Loading or unloading apparatus. No. 1,330,212; Feb. 10; v. 271; p. 104.
Moore, David P., and S. B. Pack, Washington, D. C., assignors to Packmore Manufacturing Company. Portable suction cleaning-machine. No. 1,342,345; June 1; v. 275; p. 143.
Moore, Delmer H., Greenville, Mich. Cleaning device. No. 1,335,451; Mar. 30; v. 272; p. 836.
Moore, Earl C., Mason City, Iowa. Vehicle-signal. No. 1,334,779; Mar. 23; v. 272; p. 650.
Moore, Edward, assignor to Splitdorf Electrical Company, Newark, N. J. Governing device for internal-combustion engines. No. 1,363,745; Dec. 28; v. 281; p. 682.
Moore, Edward B., Newark, Ohio. Marking-out line for gardeners. No. 1,359,519; Nov. 23; v. 280; p. 603.
Moor, Edward N., Oakland, Calif. Interior-slotting attachment for lathes. No. 1,333,210; Mar. 9; v. 272; p. 248.
Moore, Edward T., Passaic, N. J., and S. Singer, Cedarhurst, N. Y., assignors to Aero Tank Machine Gun Co., Inc. Centrifugal machine-gun. No. 1,332,992; Mar. 9; v. 272; p. 208.
Moore, Edward T., Passaic, N. J., and S. Singer, Cedarhurst, N. Y., assignors to Aero Tank Machine Gun Co., Inc. Feeding bullets and the like from hoppers. No. 1,332,993; Mar. 9; v. 272; p. 208.
Moore, Edward Y., Cleveland, Ohio. Hoist. No. 1,348,034; July 27; v. 276; p. 713.
Moore, Ernst D., and S. L. Fisher, Saybrook, assignors to The Pratt Read Player Action Company, Deep River, Conn. Sheet-winding mechanism for player-pianos. No. 1,331,870; Feb. 24; v. 271; p. 594.
Moore, Frank C., Canton, Ohio. Machine for trimming rubber hose. No. 1,330,383; Feb. 10; v. 271; p. 225.
Moore, Frank C., Canton, Ohio. Preventing the inner walls of rubber hose from sticking during manufacture. No. 1,344,143; June 22; v. 275; p. 677.
Moore, Frank L., Trumansburg, N. Y. Coupling for automobile-radiators and the like. No. 1,360,005; Nov. 23; v. 280; p. 700.
Moore, Frank P., St. Joseph, Mo. Blower and suction carpet and rug cleaner. No. 1,346,044; July 6; v. 276; p. 142.
Moore, Frederick W., Manton, R. I. Shoe-fastener. No. 1,361,796; Dec. 7; v. 281; p. 163.
Moore, George, Joplin, Mo. Liquid-supply-control apparatus. No. 1,338,995; May 4; v. 274; p. 64.
Moore, George, Joplin, Mo. Liquid-distributing apparatus. No. 1,342,859; June 8; v. 275; p. 298.
Moore, George A., Medford, Mass. Fly-swatter. No. 1,354,775; Oct. 5; v. 279; p. 66.
Moore, George F., Carman, Ill. Scaffold-bracket. No. 1,337,088; Apr. 13; v. 273; p. 323.
Moore, George L. Nut-lock. No. 1,353,777; Sept. 21; v. 278; p. 500.
Moore, George L., assignor of one-half to W. Burdick, Chicago, Ill. Sight-feed lubricator for automobiles. No. 1,331,996; Feb. 24; v. 271; p. 618.
Moore, George L., assignor of one-half to W. Burdick, Chicago, Ill. Sight-feed lubricator for automobiles. No. 1,333,814; Mar. 16; v. 272; p. 422.
Moore, George R., and C. S. Leonard, Philadelphia, Pa. Pipe-bender. No. 1,349,219; Aug. 10; v. 277; p. 263.
Moore, Granville. (See Van Meter, James W., assignor.)
Moore, Harlan, New York, N. Y. Bottle or jar closure device. No. 1,328,536; Jan. 20; v. 270; p. 409.
Moore, Harry C., and C. G. Butler, assignors to The Automotive Manufacturing Company, Dayton, Ohio. Auxiliary air-inlet device. No. 1,334,549; Mar. 23; v. 272; p. 607.
Moore, Harry G., Philadelphia, Pa. Truck-body construction. No. 1,356,459; Oct. 19; v. 279; p. 488.
Moore, Harry G., Philadelphia, Pa. Vehicle understructure and body construction. No. 1,359,906; Nov. 23; v. 280; p. 680.
Moore, Henry N., assignor to Tractor-Train Company, Los Angeles, Calif. Transmission mechanism. (Reissue.) No. 14,952; Sept. 28; v. 278; p. 681.
Moore, Herbert L. G., Hohokus, N. J. Egg holder and carrier. No. 1,329,674; Feb. 3; v. 271; p. 61.
Moore, Homer, Brooklyn, N. Y. Pencil attachment. No. 1,358,568; Nov. 9; v. 280; p. 327.
Moore, Hubert. (See Craig, Edward J., assignor.)
Moore, J. W., Machine Company, The. (See Currier, Arthur L., assignor.)
Moore, James A., assignor of one-half to J. Young, Weir, Kans. Hoop-rolling device. No. 1,353,778; Sept. 21; v. 278; p. 500.
Moore, James D., Northwilkesboro, N. C. Grits-separating machine. No. 1,347,114; July 20; v. 276; p. 473.
Moore, James E. A. (See Peck, F. A., and Moore.)
Moore, James W., assignor to Atlanta Utility Works, East Point, Ga. Fertilizer-mixer. No. 1,354,326; Sept. 28; v. 278; p. 654.
Moore, Jesse J., Philadelphia, Pa. Automobile-curtain. 1,343,148; June 8; v. 275; p. 354.
Moore, John I., Butler, Mo. Power-transmission mechanism. No. 1,347,961; July 27; v. 276; p. 698.
Moore, John T., Eureka, Calif. Trolling-spoon. No. 1,353,779; Sept. 21; v. 278; p. 500.
Moore, Julius B., Durango, Colo. Shock-absorber for automobiles and other vehicles. No. 1,349,781; Aug. 17; v. 277; p. 447.
Moore, Julius C., Raleigh, N. C. Fluid-measuring device. No. 1,358,771; Nov. 16; v. 280; p. 413.

Digitized by Google

Moore, L., Dry Kiln Co. (See Williams, Charles J., Jr., assignor.)
Moore, Lee R. (See Manning, R. B., and Moore.)
Moore, Lena C., Binghamton, N. Y. Kettle-cover drainer and holder. No. 1,349,084; Aug. 10; v. 277; p. 237.
Moore, Lottie, Portland, Oreg. Robe. No. 1,332,301; Mar. 2; v. 272; p. 24.
Moore, Mark E., Minneapolis, assignor to Moore Tool Company, Fairmont, Minn. Expanding mandrel. No. 1,343,273; June 15; v. 275; p. 442.
Moore, Martin A., Topeka, Kans. Gas-burner. No. 1,346,761; July 13; v. 276; p. 345.
Moore, Payton J. H., assignor to American Grain Deodorizing Co., Chicago, Ill. Ozonizing apparatus. No. 1,326,952; Jan. 6; v. 270; p. 13.
Moore, Richard, Ossining, N. Y. Pen-clip. No. 1,333,765; Mar. 16; v. 272; p. 413.
Moore, Rinaldo N., Mitchell, Iowa. Hoe. No. 1,360,775; Nov. 30; v. 280; p. 919.
Moore, Robert A., New York, N. Y. Vehicle-curtain fastener. No. 1,354,506; Oct. 5; v. 279; p. 12.
Moore, Robert C., New York, N. Y. Pencil. No. 1,359,725; Nov. 23; v. 280; p. 644.
Moore, Roy W., Schenectady, N. Y., assignor to General Electric Company. Crystal production. No. 1,347,350; July 20; v. 276; p. 520.
Moore, Roy W., Schenectady, N. Y., assignor to General Electric Company. Making silicon tetrachlorid. No. 1,350,932; Aug. 24; v. 277; p. 716.
Moore Steam Turbine Corporation. (See Spicer, Elmer D., assignor.)
Moore, Swinfen B., Huddersfield, England. Change-speed gear. No. 1,345,688; July 6; v. 276; p. 71.
Moore, Thomas C. (See Van Meter, James W., assignor.)
Moore, Thomas C., San Francisco, Calif. Door-securer. No. 1,339,856; May 11; v. 274; p. 302.
Moore, Thomas C., San Francisco, Calif. Rope and cable attachment. No. 1,340,730; May 18; v. 274; p. 524.
Moore, Thomas L., San Antonio, Tex. Lantern-top. No. 1,355,059; Oct. 5; v. 279; p. 121.
Moore, Thomas M., New York, N. Y. Bottle-stopper. No. 1,340,237; May 18; v. 274; p. 431.
Moore, Tom S., Egham Hill, England. Reduction of substituted nitro compounds, nitroso and azo compounds, or the like. No. 1,358,324; Nov. 9; v. 280; p. 278.
Moore Tool Company. (See Moore, Mark E., assignor.)
Moore, Wade W., Pittsburgh, Pa., assignor to Jesse E. Roach, Oakland, Calif. Eraser attachment for pencils. No. 1,352,677; Sept. 14; v. 278; p. 222.
Moore, Walter A., Welland, Ontario, Canada. Rolling-perspective rule. No. 1,348,655; Aug. 3; v. 277; p. 102.
Moore, Warren, Ladysmith, Wis. Self-measuring dispensing vessel. No. 1,328,184; Jan. 13; v. 270; p. 305.
Moore, William. Sharkey, Miss. Body protector or armor. No. 1,333,438; Mar. 9; v. 272; p. 291.
Moore, William E., Pittsburgh, Pa. Process and apparatus for manufacturing steel and steel alloys. No. 1,335,009; Mar. 30; v. 272; p. 754.
Moore, William E., Pittsburgh, Pa. Furnace-charging device. No. 1,343,465; June 15; v. 275; p. 479.
Moore, William E., assignor to G. S. Parker and W. F. Palmer, Janesville, Wis. Pressure-bar mechanism. No. 1,346,045; July 6; v. 276; p. 142.
Moore, William E., Chicago, Ill., assignor, by mesne assignments, to International Earth-Boring Machine Corporation. Operating augers. No. 1,363,049; Dec. 21; v. 281; p. 507.
Moore, William H., Jr., Little Rock, Ark. Bumper. No. 1,341,572; May 25; v. 274; p. 757.
Moore, William H., and L. L. Fleming, St. Louis, Mo., assignors of one-third to Albert O. Allen, Jr., New Madrid, Mo. Street-car annunciator and advertising device. No. 1,363,146; Dec. 21; v. 281; p. 526.
Moore, William J. (See Kline, William, assignor.)
Moore, William J. P., New York, N. Y. Electrical control mechanism for automobiles and other vehicles and machines. No. 1,337,613; Apr. 20; v. 273; p. 496.
Moore, William J. P., New York, N. Y. Demountable rim. No. 1,362,340; Dec. 14; v. 281; p. 317.
Moorhead, Albert E., Ukiah, Calif. Rotary valve. No. 1,361,397; Dec. 7; v. 281; p. 83.
Moorman, Thomas L., Farmville, Va. Battery-box. No. 1,338,690; May 4; v. 274; p. 8.
Moores, George W., Sun City, Kans. Muffler. No. 1,338,520; Apr. 27; v. 273; p. 737.
Moors, Walter C., assignor of one-third to W. P. Pedley and one-third to E. Norris, Owensboro, Ky. Shade-roller lock. No. 1,329,092; Jan. 27; v. 270; p. 542.
Moosmann, Paul, Brooklyn, N. Y. Watchman's time-detector. No. 1,351,056; Aug. 31; v. 277; p. 803.
Moo-V Doll Manufacturing Company, The. (See Duff, Michael J., assignor.)
Mora Pump Company. (See Andrews, Moril V., and Holman, assignors.)
Mora Pump Company. (See Andrews and Holmon, assignors.)
Morales, George. (See Guyer, J., and Morales.)
Moran, John F., Jersey City, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. No. 1,352,081; Sept. 7; v. 278; p. 71.
Moran, John L., Worcester, Mass., assignor to Heald Machine Company. Magnetic chuck. No. 1,349,343; Aug. 10; v. 277; p. 288.
Moran, Mark M., *et al.* (See Miller, Lorin O., assignor.)
Moran, Walter R., assignor of one-half to A. Goldstein, Worcester, Mass. Automobile-alarm. No. 1,345,387; July 6; v. 276; p. 12.
Moran, William A., Newark, N. J. Crowd-resisting apron or guard for motor-vehicles. No. 1,356,874; Oct. 26; v. 279; p. 616.
Moran, William F., assignor to Conlon Electric Washer Co., Chicago, Ill. Roll-releasing mechanism. No. 1,338,991; Mar. 16; v. 272; p. 456.
Moran, William F., assignor to V. B. M. Company, Chicago, Ill. Driving mechanism for washing-machines. No. 1,354,621; Oct. 5; v. 279; p. 35.
Moran, William H., Wilkinsburg, Pa. Machine attachment. No. 1,341,066; May 25; v. 274; p. 659.
Morand Bros.-Martin Cushion Wheel Company. (See Martin, William C., assignor.)
Morand, Daniel F. (See Cutler, C., and Morand.)
Morange, Albert S., Northampton, Mass. Cover-remover. No. 1,341,513; May 25; v. 274; p. 745.
Morano, Sam, assignor to Sam Morano & Company, Wendel, W. Va. Rail adjusting and gaging device. No. 1,326,953; Jan. 6; v. 270; p. 14.
Morano, Sam, & Company. (See Morano, Sam, assignor.)
Moratz, Paul O., Bloomington, assignor to B. C. Silver, Chicago, Ill. Child's vehicle. No. 1,354,121; Sept. 28; v. 278; p. 613.
Morava, Wensel, Chicago, Ill. Cotton-crop-separating machine. No. 1,356,545; Oct. 26; v. 279; p. 552.
Morawetz, Harry L., Milwaukee, Wis. Container-strap-sealing device. No. 1,361,890; Dec. 14; v. 281; p. 229.
Morck, Peter J., San Francisco, Calif. Adjustable handle-socket. No. 1,362,341; Dec. 14; v. 281; p. 318.
Morden, Millicen, Brooklyn, N. Y., and W. C. Hess, Toledo, Ohio. Carbureter. No. 1,354,327; Sept. 28; v. 278; p. 654.
More, David, Omaha, Nebr. Piston-valve. No. 1,358,569; Nov. 9; v. 280; p. 328.
More, F. F., Company, The. (See Vergeer, Albert W. P., assignor.)
More, Glenn, assignor to Blackstone Manufacturing Company, Jamestown, N. Y. Bench. No. 1,328,753; Jan. 20; v. 270; p. 449.
More, Glenn, assignor to Blackstone Manufacturing Company, Jamestown, N. Y. Removable wringer mechanism. No. 1,328,754; Jan. 20; v. 270; p. 449.
More, Glenn, assignor to Blackstone Manufacturing Company, Jamestown, N. Y. Gearing for washing-machines. No. 1,336,086; Apr. 6; v. 273; p. 72.
More, Glenn, assignor to Blackstone Manufacturing Company, Jamestown, N. Y. Clamp. No. 1,342,563; June 8; v. 275; p. 239.
Morehead, John, Detroit, Mich. Steam-trap. No. 1,352,617; Sept. 14; v. 278; p. 210.
Morehouse, Clarence A., Lawrence, Kans. Chain-fastener. No. 1,346,046; July 6; v. 276; p. 142.
Morehouse, Lyman F., Montclair, N. J., assignor to American Telephone and Telegraph Company. Ciphering system. No. 1,356,546; Oct. 26; v. 279; p. 552.
Moreida, Robert O., Fresno, Calif. Bicycle-hanger and cone-locking device. No. 1,361,398; Dec. 7; v. 281; p. 83.
Moreland, Everett R., Carrollton, Mo. Draftsman's fountain ruling-pen. No. 1,327,922; Jan. 13; v. 270; p. 256.
Morelli, Joseph, Brooklyn, N. Y. Foldable window-seat. No. 1,347,115; July 20; v. 276; p. 473.
Morelli, Raffaele, and J. Solimeo, assignors of one-fifth to A. Mirra, one-fifth to E. Mirra, and one-fifth to D. Inzalata, Brooklyn, N. Y. Cleaning apparatus. No. 1,327,110; Jan. 6; v. 270; p. 43.
Morenilla, José, Mexico, Mexico. Hair-curler. No. 1,363,147; Dec. 21; v. 281; p. 527.
Moreton, Frank, Wilmington, Del. Magnetic valve. No. 1,342,641; June 8; v. 275; p. 253.
Morey, Charles C., Great Falls, Mont. Filing-tool. No. 1,337,940; Apr. 20; v. 273; p. 559.
Morey, Chester T., Providence, R. I. Apparatus for sorting machine elements, &c. No. 1,341,278; May 25; v. 274; p. 700.
Morey, Harry J., Syracuse, assignor to Pass & Seymour, Inc., Solvay, N. Y. Candle-socket. No. 1,328,581; Jan. 20; v. 270; p. 418.
Morey, Harry J., Syracuse, N. Y., assignor to Pass & Seymour, Inc., Solvay, N. Y. Lamp-socket. No. 1,334,709; Mar. 23; v. 272; p. 636.
Morey, Roy C., Lincoln, Nebr. Shock-absorber; No. 1,339,780; May 11; v. 274; p. 287.
Morey, Worthie W., Columbus, Ohio. Ventilator. No. 1,348,513; Aug. 3; v. 277; p. 74.
Morey, Worthie W., assignor to F. O. Schoedinger, Columbus, Ohio. Ventilator. No. 1,362,342; Dec. 14; v. 281; p. 318.
Morgal, John F., assignor to The E. W. Ross Company, Springfield, Ohio. Cutting and distributing device for silo-fillers. No. 1,353,261; Sept. 21; v. 278; p. 397.
Morgan, Alfred M. (See Anderson, A. V., and Morgan.)
Morgan Auto Alarm Corporation. (See Morgan, Howard, assignor.)

Digitized by Google

Morgan, Benjamin J., Des Moines, Iowa. Railway-frog. No. 1,338,786; May 4; v. 274; p. 26.
Morgan, Charles F., Dayton, Ohio. Amusement device. No. 1,331,206; Feb. 17; v. 271; p. 448.
Morgan Construction Company. (See George, Jerome R., assignor.)
Morgan Construction Company. (See Sheperdson, John W., assignor.)
Morgan Crucible Company. (See Speirs, Charles W., assignor.)
Morgan, Edmund C., Chicago, Ill. Mining-machine. No. 1,328,755; Jan. 20; v. 270; p. 449.
Morgan, Edmund C., New York, N. Y. Mining. No. 1,330,741; Feb. 10; v. 271; p. 292.
Morgan, Edmund C., New York, N. Y. Mining. No. 1,330,742; Feb. 10; v. 271; p. 292.
Morgan, Edmund C., New York, N. Y. Apparatus for mining roof-props. No. 1,330,743; Feb. 10; v. 271; p. 292.
Morgan, Edmund C., New York, N. Y. Stone cutting and handling apparatus. No. 1,330,744; Feb. 10; v. 271; p. 293.
Morgan, Edmund C., New York, N. Y. Apparatus for mining purposes. No. 1,333,627; Mar. 16; v. 272; p. 387.
Morgan, Edmund C., Chicago, Ill. Mining and loading machine. No. 1,340,731; May 18; v. 274; p. 524.
Morgan Engineering Company, The. (See Morgan, William H., assignor.)
Morgan Engineering Company, The. (See Morris, Howard E., assignor.)
Morgan Engineering Company, The. (See Taylor, Clarence L., assignor.)
Morgan, Evan B., Liverpool, England. Mechanical toy. No. 1,360,970; Nov. 30; v. 280; p. 956.
Morgan, Henry S., assignor to Pouvailsmith Corporation, Poughkeepsie, N. Y. Cap for automobile-radiators and the like. No. 1,349,137; Aug. 10; v. 277; p. 247.
Morgan, Henry W., Johnson City, N. Y. Garden-cultivator. No. 1,342,642; June 8; v. 275; p. 253.
Morgan, Howard, Atlantic City, N. J., assignor, by mesne assignments, to Morgan Auto Alarm Corporation. Audible alarm for automobiles. No. 1,332,267; Mar. 2; v. 272; p. 17.
Morgan, John D., assignor to Steel Utilities, Summit, N. J. Metal-punching machine. No. 1,349,975; Aug. 17; v. 277; p. 484.
Morgan, John H., Kent, England. Bracket for shelving and the like. No. 1,347,116; July 20; v. 276; p. 473.
Morgan, John T., Charleston, W. Va. Trolley-clamp. No. 1,360,006; Nov. 23; v. 280; p. 700.
Morgan, John T., Charleston, W. Va., assignor to The Ohio Brass Company, Mansfield, Ohio. Sectional insulator. No. 1,354,505; Oct. 5; v. 279; p. 11.
Morgan, Lewis H., assignor to The American Auto Alarm Company, Cleveland, Ohio. Audible alarm for vehicles. No. 1,349,467; Aug. 10; v. 277; p. 312.
Morgan, Mary M., Philomath, Oreg. Button. No. 1,362,434; Dec. 14; v. 281; p. 336.
Morgan, Mathew B., Cleveland Heights, assignor to The Cleveland Tractor Company, Euclid, Ohio. Track-wheel suspension for track-laying tractors. No. 1,337,787; Apr. 20; v. 273; p. 529.
Morgan, Mathew B., Cleveland Heights, assignor to The Cleveland Tractor Company, Euclid, Ohio. Track-belt. No. 1,357,718; Nov. 2; v. 280; p. 98.
Morgan, Mathew B., Cleveland Heights, assignor to The Cleveland Tractor Company, Euclid, Ohio. Driving-sprocket for tractors. No. 1,357,719; Nov. 2; v. 280; p. 98.
Morgan, Mathew B., Cleveland Heights, W. D. Collins, East Cleveland, and G. T. Kinney, Cleveland, assignors to The Cleveland Tractor Company, Euclid, Ohio. Means for dust-proofing rotating gear-cases. No. 1,338,032; Apr. 27; v. 273; p. 646.
Morgan, Porter S., Norwalk, Conn. Rotating ratchet. No. 1,334,468; Mar. 23; v. 272; p. 591.
Morgan, Rodney D., East Rockaway, N. Y. Picture-frame. No. 1,334,780; Mar. 23; v. 272; p. 650.
Morgan, Thomas, Worcester, Mass. Machine for making popcorn. No. 1,339,662; May 11; v. 274; p. 265.
Morgan, William, Los Angeles, Calif. Electric flatiron. No. 1,327,602; Jan. 6; v. 270; p. 135.
Morgan, William, assignor of one-half to W. Mills, Birmingham, England. Carburation device for internal-combustion engines. No. 1,347,820; July 27; v. 276; p. 670.
Morgan, William A., Indianapolis, Ind. Stock-breeding device. No. 1,334,256; Mar. 16; v. 272; p. 504.
Morgan, William H., assignor to The Morgan Engineering Company, Alliance, Ohio. Plant for the manufacture of machinery and other apparatus. No. 1,333,992; Mar. 16; v. 272; p. 456.
Morgan, William J., Bressler, Pa. Shoe-heel construction. No. 1,338,580; Apr. 27; v. 273; p. 748.
Morgan, William J., assignor of one-half to L. Hubsman, Peckville, Pa. Coin-wrapper. No. 1,337,941; Apr. 20; v. 273; p. 559.
Morgan, William T. C., McKees Rocks, Pa. Tire. No. 1,335,452; Mar. 30; v. 272; p. 837.
Morgan & Wright. (See Abbott, Adrian O., Jr., assignor.)
Morgan & Wright. (See Cederstrom, Bror E., assignor.)
Morgan & Wright. (See Jury, Alfred E., assignor.)
Morgan & Wright. (See McNeill, George, assignor.)
Morgan & Wright. (See Meyer, Edwin E. A. G., assignor.)
Morgan & Wright. (See Mulloy, John H., assignor.)
Morgan & Wright. (See Neal, De Courcy, assignor.)
Morgan & Wright. (See Steinle, William J., assignor.)
Morgan & Wright. (See Warder, Joseph, assignor.)
Morgan & Wright. (See Wetlon, Harry A., assignor.)
Morgan & Wright. (See Wullenweber, Ernest A., assignor.)
Morgans & Wilcox Mfg. Company. (See Hampson, Donald A., assignor.)
Morgans, William C., Dubuque, Iowa. Marking apparatus. No. 1,363,897; Dec. 28; v. 281; p. 712.
Morgen, Simon, Brooklyn, and S. Hoffman, New York, N. Y. Sewing-machine gage. No. 1,343,149; June 8; v. 275; p. 355.
Moriarty, Daniel, Oakland, Calif. Vehicle-tire. No. 1,334,110; Mar. 16; v. 272; p. 478.
Moriarty, Daniel, Oakland, Calif. Resilient wheel. No. 1,334,111; Mar. 16; v. 272; p. 478.
Moriarty, Ernest C., Philadelphia, Pa. Ordnance recoil-check. No. 1,358,386; Nov. 9; v. 280; p. 291.
Morimura Bros. (See Langfelder, Frederick, assignor.)
Morin, Joseph H., Nashua, N. H. Stock-register. No. 1,360,432; Nov. 30; v. 280; p. 851.
Morin, Joseph H., E. Charbonneau, and F. Charron, Nashua, N. H. Commutator-bracket. No. 1,332,136; Feb. 24; v. 271; p. 643.
Morin, Theodore, *et al.* (See McLean, Charles D., assignor.)
Morine, John P., Trentham, New Zealand. Detachable handle for teacups, saucepans, and the like. No. 1,341,756; June 1; v. 275; p. 20.
Morinsky, Louis, New York, and E. K. Madan, Brooklyn, N. Y., assignors to L. V. Aronson, Newark, N. J. Toy knitting-machine. No. 1,331,118; Feb. 17; v. 271; p. 432.
Morison, Donald B., Hartlepool, England. Indicating and recording apparatus. No. 1,335,596; Mar. 30; v. 272; p. 863.
Morison, Donald B., Hartlepool, England. Apparatus for discharging aerated vapor from steam-condensers. No. 1,359,907; Nov. 23; v. 280; p. 680.
Morison, Samuel B., Redlands, Calif. Fruit-picker. No. 1,336,648; Apr. 13; v. 273; p. 238.
Moritz, John, Lebanon, Pa. Hair-lock coat-front. No. 1,339,274; May 4; v. 274; p. 115.
Mork, Albert C., Minneapolis, Minn. Valve-grinding machine. No. 1,327,875; Jan. 13; v. 270; p. 247.
Mork, Jack, Chicago, Ill. Shoe-polisher. No. 1,343,466; June 15; v. 275; p. 479.
Morkrum Company. (See Krum, Charles L. and H. L., assignors.)
Morley, Edgar, Goodrich, N. D. Air-heating apparatus. No. 1,333,870; Mar. 16; v. 272; p. 433.
Morley, Edgar R., *et al.* (See Dawson, Herbert R., assignor.)
Morley, Frank, *et al.* (See Dawson, Herbert R., assignor.)
Morley, Frederic A., Brooklyn, N. Y. Mouth-flute. No. 1,341,860; June 1; v. 275; p. 49.
Morley, Frederick W., *et al.* (See Timson, Samuel and H. M., assignors.)
Morley, Harry J., and G. L. Green, Logan, Ohio. Rivet-head catcher. No. 1,340,787; May 18; v. 274; p. 534.
Morley, Henry, New Westminster, British Columbia, Canada. Jar-lifter. No. 1,336,255; Apr. 6; v. 273; p. 104.
Morley-Manker Company. (See Manker, Charles C., assignor.)
Morley, Murray J. (See Manker, Charles C., assignor.)
Morley, Robert J., Rochester, N. Y. Cigarette-paper. No. 1,363,989; Dec. 28; v. 281; p. 729.
Morley, Thomas, *et al.* (See Timson, Samuel and H. M., assignors.)
Morley, William N. (See Pollard, E. T., and Morley.)
Moross, William P. D., and J. C. Costello, Chattanooga, Tenn. Apparatus for extracting lye from wood-ashes. No. 1,328,096; Jan. 13; v. 270; p. 289.
Morral, Samuel E., Morral, Ohio. Wheel. No. 1,328,052; Jan. 13; v. 270; p. 281.
Morral, Samuel E. and W. W., Morral, Ohio. Machine for cutting green corn from the cob. No. 1,327,402; Jan. 6; v. 270; p. 97.
Morrall, William W. (See Morrall, Samuel E. and W. W.)
Morrell, Jacque C., New York, N. Y. Cleansing finely-divided material. No. 1,359,091; Nov. 16; v. 280; p. 474.
Morrill, Alfred R., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Thread-waxing device. No. 1,333,766; Mar. 16; v. 272; p. 414.
Morrill, Alfred R., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Inseam sewing-machine. No. 1,350,377; Aug. 24; v. 277; p. 608.
Morrill, L. A., and E. N. Gynan, Haverhill, Mass., assignors to O. A. Miller Treeing Machine Company, Portland, Me. Shoe-top-ironing machine. No. 1,357,337; Nov. 2; v. 280; p. 26.

Digitized by Google

Morrill, Philip E., assignor to Bemis Brothers Bag Company, St. Louis, Mo. Closure for bags. No. 1,361,605; Dec. 7; v. 281; p. 126.
Morrill, Milton. (See Canfield, E. J., and Morrill.)
Morrin, William J., New Britain, Conn. Removable flooring for elevator-shafts. No. 1,335,849; Apr. 6; v. 278; p. 27
Morris, Arthur P., Insein, Burma, India. Pottery-ware. No. 1,362,956; Dec. 21; v. 281; p. 488.
Morris, Boaz A., Morehead City, N. C. Musical instrument. No. 1,335,010; Mar. 30; v. 272; p. 754.
Morris Cash and Credit Register Company. (See Hart, Edward W., assignor.)
Morris, Charles E., assignor to C. W. Parker, Leavenworth, Kans. Carousel. No. 1,327,725; Jan. 13; v. 270; p. 219.
Morris, David, and W. Levy, Paterson, N. J.; said Morris assignor to said Levy. Control-lever lock for automobiles. No. 1,346,762; July 13; v. 276; p. 345.
Morris, David D., Paterson, N. J. Valve-guard. No. 1,332,513; Mar. 2; v. 272; p. 65.
Morris, Edgar F., Pittsburgh, Pa. Rail-joint. No. 1,341,573; May 25; v. 274; p. 757.
Morris, Edgar L., assignor to U. S. Sanitary Specialties Corporation, Chicago, Ill. Liquid-soap dispenser. No. 1,361,891; Dec. 14; v. 281; p. 229.
Morris, Edward, Oakland, Calif. Tool. No. 1,327,566; Jan. 6; v. 270; p. 128.
Morris, Edward K., Baltimore, Md. Collapsible box. No. 1,362,129; Dec. 14; v. 281; p. 277.
Morris, Elby A., Leetonia, Ohio. Trolley-retriever. No. 1,353,262; Sept. 21; v. 278; p. 397.
Morris, Fields J., Durango, Colo. Dustpan. No. 1,346,380; July 13; v. 276; p. 269.
Morris, Francis D. (See Walz, C. F., and Morris.)
Morris, George S., Jackson, Mich. Labeling-machine. No. 1,344,426; June 22; v. 275; p. 733.
Morris, Harry, Haddonfield, N. J. Flame-protector. No. 1,339,215; May 4; v. 274; p. 105.
Morris, Harry F., Collingswood, N. J. Forced-draft watergrate. No. 1,348,235; Aug. 3; v. 277; p. 21.
Morris, Harry J., Kansas City, Mo. Artificial limb. No. 1,338,243; Apr. 27; v. 273; p. 685.
Morris, Harry J., Kansas City, Mo. Artificial limb. No. 1,357,074; Oct. 26; v. 279; p. 655.
Morris, Harry V., Woodland, Calif., assignor to D. R. Throop, Davis, Calif. Scraper and leveler. No. 1,333,815; Mar. 16; v. 272; p. 423.
Morris, Herbert, Limited. (See Butterworth, Joseph A., assignor.)
Morris, Herbert, Limited. (See Purnell, W. H., and Butterworth, assignors.)
Morris, Howard E., assignor to The Morgan Engineering Company, Alliance, Ohio. Fire-extinguisher. No. 1,357,410; Nov. 2; v. 280; p. 40.
Morris, Howard I., assignor to Morris Tire Machinery Company, Los Angeles, Calif. Apparatus for laying or forming tire-treads. No. 1,353,933; Sept. 28; v. 278; p. 574
Morris, Howard I., assignor to Morris Tire Machinery Company, Los Angeles, Calif. Method and machine for making the rubber elements for tires, laminated tire-treads, &c. No. 1,353,934; Sept. 28; v. 278; p. 574.
Morris, Howard I., assignor to Morris Tire Machinery Company, Los Angeles, Calif. Bias-fabric machine. No. 1,359,092; Nov. 16; v. 280; p. 474.
Morris, Howard I., assignor to The Savage Tire Company, San Diego, Calif. Loom element. No. 1,358,094; Nov. 9; v. 280; p. 233.
Morris, Howard I., assignor to The Savage Tire Company, San Diego, Calif. Loom element. No. 1,361,530; Dec. 7; v. 281; p. 112.
Morris, Hugh, Chicago, Ill. Spark-arrester. No. 1,358,095; Nov. 9; v. 280; p. 233.
Morris, James W., and L. L. Bayles, Oakland, Calif. Sick-bed. No. 1,363,341; Dec. 28; v. 281; p. 604.
Morris, Jan, Danvers, Mass. Permutation-lock. No. 1,357,581; Nov. 2; v. 280; p. 71.
Morris, Jolly L. (See Allen, C. H., and Morris.)
Morris, Joseph, Elton, near Chester, England. Shell or projectile. No. 1,345,689; July 6; v. 276; p. 71.
Morris, Joseph C. (See Lundin, Karl G., assignor.)
Morris, Joseph J., Stockton, Calif. Lock. No. 1,346,763; July 13; v. 276; p. 345.
Morris, Lawrence L., Ballston Spa, N. Y. Paper-making machine. No. 1,359,520; Nov. 23; v. 280; p. 604.
Morris, Leonard D., Chicago, Ill. Chime-mounting. No. 1,361,084; Dec. 7; v. 281; p. 21.
Morris, Lewis G., New York, N. Y. Cutting-tool. No. 1,357,075; Oct. 26; v. 279; p. 656.
Morris, Lute P. (See Thompson, R. A., and Morris.)
Morris, Paul, Buffalo, N. Y. Machine for sawing, drilling, Grinding, &c. No. 1,337,147; Apr. 13; v. 273; p. 334.
Morris, Pratt C., assignor to C. W. Cooper, Thomasville, Ga. Coil-box protector. No. 1,338,581; Apr. 27; v. 273; p. 748.
Morris, Pratt C., assignor to C. W. Cooper, Thomasville, Ga. Fan-belt guide for Ford and other cars. No. 1,339,408; May 11; v. 274; p. 216.
Morris, Rachel, Chicago, Ill. Curtain-securer. No. 1,354,678; Oct. 5; v. 279; p. 47.
Morris, Robert F. (See Trainor, A. E., and Morris.)
Morris, Ruben, Montreal, Quebec, Canada. Vehicle-fender. No. 1,363,529; Dec. 28; v. 281; p. 140.
Morris, Theodore H., and F. T. Grubbe, Gary, Ind. Boudoir-chair. No. 1,338,582; Apr. 27; v. 273; p. 748.
Morris, Thomas F., Waterford, N. Y. Snap-fastener. No. 1,352,374; Sept. 7; v. 278; p. 126.
Morris, Thomas W., Chicago, Ill. Trimming device. No. 1,361,531; Dec. 7; v. 281; p. 112.
Morris Tire Machinery Company. (See Morris, Howard I., assignor.)
Morris, Urban S., Tulsa, Okla. Pipe-bending mechanism. No. 1,342,564; June 8; v. 275; p. 239.
Morris, William B. (See Houser, A. M., and Morris.)
Morris, William E., Marietta, Ohio. Tie. No. 1,356,460; Oct. 19; v. 279; p. 488.
Morris, William G., Cairo, Egypt. Valve. No. 1,328,009; Jan. 13; v. 270; p. 272.
Morris, William L., Chicago, Ill. Lubricant cleaning and replenishing system for automobiles. No. 1,337,408; Apr. 20; v. 273; p. 457.
Morrisette, Charles A. (See El Vean, John A., assignor.)
Morrison, Abraham L., Dubuque, Iowa. Headlight-glass. No. 1,339,604; May 11; v. 274; p. 254.
Morrison, Abraham L., Dubuque, Iowa. Lens. No. 1,363,805; Dec. 28; v. 281; p. 694.
Morrison, Alfred J., assignor of one-half to W. E. Warneke, Denver, Colo. Coating-machine. No. 1,331,460; Feb. 17; v. 271; p. 495.
Morrison, Alfred J., Denver, Colo., assignor to Stokes & Smith Company, Summerdale, Philadelphia, Pa. Extension-bottom-box-wrapping apparatus. No. 1,348,369; Aug. 3; v. 277; p. 47.
Morrison, Andrew, Pittsburgh, Pa., assignor to Dilworth Porter & Company, Pittsburgh, Pa. Tie-plate. No. 1,348,370; Aug. 3; v. 277; p. 48.
Morrison, Andrew, Penn township, Allegheny County, assignor to Dilworth, Porter & Company, Incorporated, Pittsburgh, Pa. Tie-plate. No. 1,357,178; Oct. 26; v. 279; p. 675.
Morrison, Andrew, Penn township, Allegheny County, assignor to Dilworth, Porter & Company, Inc., Pittsburgh, Pa. Tie-plate. No. 1,357,179; Oct. 26; v. 279; p. 675.
Morrison, Arthur, Hamilton, Ill. Hog-oiler. No. 1,360,007; Nov. 23; v. 280; p. 700.
Morrison, Charles H., and F. H. Nicholson, New Haven, Conn. Signal apparatus. No. 1,340,970; May 25; v. 274; p. 640.
Morrison, David. (See Cattin, G. L., and Morrison.)
Morrison, Dennis W., Indiana Harbor, Ind. Lattice-truss. No. 1,345,501; July 6; v. 276; p. 84.
Morrison, Edward, Warkworth, Auckland, New Zealand. Clip for attaching straps to fruit-cases or the like. No. 1,355,997; Oct. 19; v. 279; p. 396.
Morrison, Edward, Warkworth, Auckland, New Zealand. Fastener for fruit-cases. No. 1,359,823; Nov. 23; v. 280; p. 663.
Morrison, Edwin J., Yonkers, N. Y. Pavement. No. 1,335,180; Mar. 30; v. 272; p. 786.
Morrison, Egbert R., Cleveland, Ohio. Steam-boiler. (Reissue.) No. 14,859; May 18; v. 274; p. 550.
Morrison, E. R., and H. P. Rodgers, Cleveland, Ohio. Combined chimney and ash-pit. No. 1,357,246; Nov. 2; v. 280; p. 9.
Morrison, Frank, Warren, Minn. Gopher-trap. No. 1,363,260; Dec. 28; v. 281; p. 589.
Morrison, Henry W., *et al.* (See Cassingham and Ayres, assignors.)
Morrison, James D., Reinbeck, Iowa. Well-drilling device. No. 1,338,460; Apr. 27; v. 273; p. 726.
Morrison, Jesse A., Mountainair, N. Mex. Combination-rig for drilling. No. 1,327,403; Jan. 6; v. 270; p. 97.
Morrison, John, Jr., Glens Falls, N. Y. Brush. No. 1,347,648; July 27; v. 276; p. 635.
Morrison, John, Jr., Glens Falls, N. Y. Assorting bristles. No. 1,347,750; July 27; v. 276; p. 657.
Morrison, John W., *et al.* (See Cassingham and Ayres, assignors.)
Morrison, Ralph W., Omaha, Nebr. Stylus-bar control for phonographs. No. 1,357,338; Nov. 2; v. 280; p. 27.
Morrison, Ralph W., assignor to Cathedral Phonograph Company, Omaha, Nebr. Phonograph attachment. No. 1,344,186; June 22; v. 275; p. 686.
Morrison, Robert W., Jamaica, N. Y., assignor to United Specialties Manufacturing Co., Ltd. Casement-adjuster. No. 1,330,333; Feb. 10; v. 271; p. 216.
Morrison, Seymour, Indianapolis, Ind. Folded paper-board filler for boxes. No. 1,354,413; Sept. 28; v. 278; p. 672.
Morrison, Walter L., Los Angeles, Calif. Process and apparatus for reducing metallic oxids. No. 1,350,419; Aug. 24; v. 277; p. 617.
Morrison, William F., Vallejo, Calif. Concrete tie. No. 1,350,420; Aug. 24; v. 277; p. 617.
Morrison, William J., Toronto, Ontario, Canada. Firearm. No. 1,359,726; Nov. 23; v. 280; p. 644.
Morrison, William N., St. Louis, Mo. Key-ring holder. No. 1,349,468; Aug. 10; v. 277; p. 313.
Morrow, Herbert W., Loysville, Pa. Sheaf-carrier. No. 1,331,352; Feb. 17; v. 271; p. 475.
Morrow, James G., Hamilton, Ontario, Canada. Grip for test-pieces. No. 1,341,431; May 25; v. 274; p. 730.
Morrow, Samuel W., Baltimore, Md. Burner. No. 1,348,574; Aug. 3; v. 277; p. 86.

Digitized by Google

Morrow, Samuel W., assignor to The Reus Bros. Company, Baltimore, Md. Piston packing-ring. No. 1,349,728; Aug. 17; v. 277; p. 437.
Morrow, Thomas J. (See Pence and Morrow.)
Mors, Frank E., and J. A. Burt, Detroit, Mich. Traffic-signal. No. 1,334,628; Mar. 23; v. 272; p. 621.
Morse Adding Machine Company, The. (See Morse, Charles R., assignor.)
Morse, Alfred B., South Easton, Mass. Universal joint. No. 1,344,707; June 29; v. 275; p. 853.
Morse-Andrews Company. (See Morse, William J., assignor.)
Morse Chain Company. (See Morse, Frank L., assignor.)
Morse, Charles R., assignor to The Morse Adding Machine Company, Chicago, Ill. Computing-machine. No. 1,330,893; Feb. 17; v. 271; p. 390.
Morse, Clyde V., Galesburg, Ill. Oil-cooling system for explosive-engines. No. 1,336,368; Apr. 6; v. 273; p. 125.
Morse, Esmond. (See Hadfield, R. A., Jack, Milne, and Morse.)
Morse, Frank L., Ithaca, N. Y. Aeroplane control. No. 1,336,977; Apr. 13; v. 273; p. 301.
Morse, Frank L., assignor to Morse Chain Company, Ithaca, N. Y. Multiplate drive-chain. No. 1,352,017; Sept. 7; v. 278; p. 60.
Morse, Frank W., San Fernando, Calif. Automobile-curtain window. No. 1,356,389; Oct. 19; v. 279; p. 474.
Morse, Harold F., Pittsfield, Mass., assignor to General Electric Company. Air-current-producing means. No. 1,334,781; Mar. 23; v. 272; p. 651.
Morse, Harry W., assignor to American Trona Corporation, Trona, Calif. Separation of constituents of brines. No. 1,343,400; June 15; v. 275; p. 466.
Morse, Harry W., assignor to American Trona Corporation, Trona, Calif. Separating potassium compound from brines. No. 1,343,401; June 15; v. 275; p. 467.
Morse Instrument Company. (See Morse, Robert V., assignor.)
Morse, John B. (See Sherlock, C. B., and Morse.)
Morse, L., & Sons. (See White, Percy, assignor.)
Morse, Lawrence H., and J. J. Tracy, Cleveland, Ohio; said Morse assignor to said Tracy. Windshield-cleaner. No. 1,339,216; May 4; v. 274; p. 105.
Morse, Lawrence H., and J. J. Tracy, Cleveland, Ohio; said Morse assignor to said Tracy. Windshield-cleaner. (Reissue.) No. 14,920; July 20; v. 276; p. 547.
Morse, Mark S., Huntington Park, assignor to Railway Specialties Company, Los Angeles, Calif. Electric signaling. No. 1,344,308; June 22; v. 275; p. 710.
Morse, Mark S., assignor to Magnetic Signal Company, Los Angeles, Calif. Electric switch. No. 1,356,875; Oct. 26; v. 279; p. 616.
Morse, Melvin G., Clio, assignor of fifty-five per cent. to F. Wretlof, Flint, Mich. Sleigh attachment for autos. No. 1,363,148; Dec. 21; v. 281; p. 527.
Morse, Robert V., Ithaca, N. Y. Homopolar magnetic circuit. No. 1,327,349; Jan. 6; v. 270; p. 87.
Morse, Robert V., Ithaca, N. Y. Cooling system for homopolar machines. No. 1,327,350; Jan. 6; v. 270; p. 87.
Morse, Robert V., Ithaca, N. Y. Submarine-propulsion system. No. 1,332,631; Mar. 2; v. 272; p. 87.
Morse, Robert V., Ithaca, N. Y. Tracer system of fire control. No. 1,355,841; Oct. 19; v. 279; p. 366.
Morse, Robert V., assignor to Morse Instrument Company, Inc., Ithaca, N. Y. Electric sight-controlling mechanism for anti-aircraft guns. No. 1,343,003; June 8; v. 275; p. 326.
Morse, Robert V., assignor to Morse Instrument Company, Inc., Ithaca, N. Y. Automatic fuse-setter for anti-aircraft artillery. No. 1,349,220; Aug. 10; v. 277; p. 264.
Morse, Theodore F., assignor to Huntley Manufacturing Co., Silver Creek, N. Y. Cherry-pitter. No. 1,336,852; Apr. 13; v. 273; p. 278.
Morse, William F., assignor to S. R. Parry, Rochester, N. Y. Adjustable cutting-knife. No. 1,351,115; Aug. 31; v. 277; p. 813.
Morse, William F., assignor to S. R. Parry, Rochester, N. Y. Corner-cutter. No. 1,351,116; Aug. 31; v. 277; p. 814.
Morse, William J., assignor to Morse-Andrews Company, Attleboro, Mass. Belt-buckle. No. 1,344,955; June 29; v. 275; p. 901.
Morse, Willis S., New York, N. Y., and C. T. Evans, Milwaukee, Wis. Circuit-controller. No. 1,351,184; Aug. 31; v. 277; p. 827.
Morselli, Giovanni, Milan, Italy. Copper-containing compound for treating plant diseases and making it. No. 1,362,172; Dec. 14; v. 281; p. 285.
Morss, Stephen B., Rahway, N. J. Oil-heater. No. 1,363,342; Dec. 28; v. 281; p. 605.
Mortenson, Charles G., San Francisco, Calif. Reinforcing bridges and like structures. No. 1,331,871; Feb. 24; v. 271; p. 595.
Mortensen, Jens, New York, assignor to Fred Gont Company, Brooklyn, N. Y. Looper mechanism for tension envelop-machines. No. 1,354,328; Sept. 28; v. 278; p. 655.
Mortensen, Jens, Brooklyn, assignor to Shurloc Elevator Safety Company, Inc., New York, N. Y. Elevator safety-lock. No. 1,356,108; Oct. 19; v. 279; p. 419.
Mortensen, Soren H., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Pole construction. No. 1,355,347; Oct. 12; v. 279; p. 231.
Morthland, George W., Lead, S. D. Ore-grinding machine. No. 1,363,990; Dec. 28; v. 281; p. 729.
Mortier, Georges A., Burnley, England. Air-pump. No. 1,363,898; Dec. 28; v. 281; p. 712.
Mortimer, Charles G., East Orange, assignor to Gummed Tape Machine Company, Newark, N. J. Device for delivering tape. No. 1,334,670; Mar. 23; v. 272; p. 629.
Mortimer, Louis A., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical relay. No. 1,345,798; July 6; v. 276; p. 92.
Mortimer, William, and F. Potten, Dover, England. Apparatus for facilitating the landing of aircraft. No. 1,342,860; June 8; v. 275; p. 298.
Morton, Alfred M., and L. A. Cozart, Little Rock, Ark. Starting-crank. No. 1,356,876; Oct. 26; v. 279; p. 617.
Morton Brake Company. (See Morton, Harold S., assignor.)
Morton, Charles E., St. Louis, Mo. Safety mechanism for moving-picture machines. No. 1,360,971; Nov. 30; v. 280; p. 956.
Morton, Charles H., Eccles, Manchester, England. Chair. No. 1,360,776; Nov. 30; v. 280; p. 919.
Morton, Dudley J., Wynnewood, Pa. Device for the prevention and treatment of deformed feet. No. 1,335,981; Apr. 6; v. 273; p. 53.
Morton, Floyd E. (See Miller and Morton.)
Morton, Harold S., assignor to Morton Brake Company, Minneapolis, Minn. Braking mechanism. No. 1,334,711; Mar. 23; v. 272; p. 636.
Morton, Horace E., Sydney, New South Wales, Australia. Window-blind. No. 1,360,560; Nov. 30; v. 280; p. 877.
Morton, James C., Auckland, New Zealand. Condensing apparatus. No. 1,354,122; Sept. 28; v. 278; p. 613.
Morton, Theodore L., New Orleans, La. Inner tube for fires. No. 1,331,023; Feb. 17; v. 271; p. 415.
Morton, Theodore L., and J. E. Irwin, New Orleans, La. Trolley-guard. No. 1,355,561; Oct. 12; v. 279; p. 272.
Morton, Walter S., Harrisburg, Pa. Motor-truck construction and drive. No. 1,339,124; May 4; v. 274; p. 89.
Morton, Walter S., Harrisburg, Pa. Steering mechanism for motor-trucks. No. 1,339,125; May 4; v. 274; p. 89.
Morton, Walter S., Harrisburg, Pa. Axle-housing and fifth-wheel construction for motor-trucks. No. 1,342,861; June 8; v. 275; p. 298.
Morton, Walter S., Moline, Ill., assignor to Tractor Producing Corporation, New York, N. Y. Steering device for motor-vehicles. No. 1,334,959; Mar. 30; v. 272; p. 744.
Morton, William B., Beatrice, Nebr. Store-case. No. 1,328,185; Jan. 13; v. 270; p. 306.
Morton, Woolridge B., assignor to Nicholas Power Company, Inc., New York, N. Y. Method and apparatus for feeding motion-picture films. No. 1,361,167; Dec. 7; v. 281; p. 37.
Morton, Woolridge B., Larchmont Gardens, assignor to The Pathescope Co. of America, Inc., New York, N. Y. Intermittent movement for moving-picture machines. No. 1,361,168; Dec. 7; v. 281; p. 37.
Mortonson, James C. (See Mortonson, M. H. and J. C.)
Mortonson Morton H. and J. C., Milwaukee, Wis. Dental casting-machine. No. 1,331,660; Feb. 24; v. 271; p. 554.
Mosby, Alfred D., assignor to Equipment Corporation of America, Chicago, Ill. Mixing-machine. No. 1,351,725; Aug. 31; v. 277; p. 934.
Mosby, David Y., National Military Home, Ind. Animal-trap. No. 1,359,724; Nov. 23; v. 280; p. 643.
Mosby, William A., Cotton Plant, Ark. Target. No. 1,341,814; June 1; v. 275; p. 40.
Moscini, John, Brooklyn, N. Y. Paper-match machine. No. 1,327,627; Jan. 13; v. 270; p. 201.
Moscini, John, New York, N. Y., assignor to W. H. Coe Manufacturing Company, Providence, R. I. Metal-leaf-applying device. No. 1,344,427; June 22; v. 275; p. 733.
Moseley, Everett E., Pine Bluff, Ark. Portable automobile grocery-store. No. 1,333,670; Mar. 16; v. 272; p. 396.
Moseman, John H., *et al.* (See Herr, Abram B., assignor.)
Moser, Albert F., assignor to Coronn Typewriter Company, Inc., Groton, N. Y. Typewriting-machine. No. 1,354,329; Sept. 28; v. 278; p. 655.
Moser, Bernard M., Oshkosh, Wis. Ash-sifter. No. 1,354,835; Oct. 5; v. 279; p. 77.
Moser, Lester L. (See Moser, Russell and L. L.)
Moser, Russell and L. L., Homestead, Fla. Motor-plow. No. 1,344,708; June 29; v. 275; p. 853.
Moser, Wilhelm O., Bienne, Switzerland. Phonograph tone-recording point. No. 1,362,173; Dec. 14; v. 281; p. 285.
Moser, William G. (See Hall, Stewart E., assignor.)
Moses, Albert B., Seattle, Wash. Making substitute for milk. No. 1,332,562; Mar. 2; v. 272; p. 74.
Moses, Alice, Bennington, Vt. Button-fastener. No. 1,340,073; May 11; v. 274; p. 342.
Moses, Charles J., Bogota, N. J. Telephone attachment. No. 1,355,243; Oct. 12; v. 279; p. 210.
Moses, Edmund Q. (See Hammond, William P., assignor.)
Moses, Harry S., Hubbard Woods, Ill. Undergarment. No. 1,349,976; Aug. 17; v. 277; p. 484.
Moses, Herbert L., assignor, by mesne assignments, to M. S. Levy and Sons, Inc., Baltimore, Md. Conformator attachment for hats. No. 1,362,343; Dec. 14; v. 281; p. 318.

Digitized by Google

Alphabetical list of patentees—Continued.

Moses, William B., Brookline, Mass. Starting, generating, and ignition apparatus. No. 1,333,331; Mar. 9; v. 272; p. 271.
Moses, William B., Brookline, Mass., assignor to Gray & Davis, Incorporated, Cambridge, Mass. Power-transmission mechanism. No. 1,347,117; July 20; v. 276; p. 474.
Moses, William B., Brookline, assignor to Gray & Davis Inc., Cambridge, Mass. Regulator for dynamo-electric machines. No. 1,363,806; Dec. 28; v. 281; p. 694.
Moses, William B., Watertown, assignor to Gray & Davis, Inc., Cambridge, Mass. Generator and cut-out switch apparatus. No. 1,357,582; Nov. 2; v. 280; p. 72.
Mosheim, Albert S., East Orange, N. J. Powder-puff. No. 1,357,412; Nov. 2; v. 280; p. 40.
Mosheim, Albert S., East Orange, N. J., assignor of one-half to G. Mosheim, New York, N. Y. Powder-puff and making same. No. 1,357,411; Nov. 2; v. 280; p. 40.
Mosheim, Gustave. (See Mosheim, Albert S., assignor.)
Mosher, Clifford C., Lima, Ohio. Machine for emptying barrels. No. 1,347,649; July 27; v. 276; p. 635.
Mosher, Clifford C., Lima, Ohio. Rubber-cement-mixing machine. No. 1,347,650; July 27; v. 276; p. 635.
Mosher, Lillian B. (See Rider, Edward A., assignor.)
Moskowitz, Louis. (See Cohon, Benjamin J., assignor.)
Moskowitz, Louis. (See Cohon, J., and Moskowitz.)
Mosler, A. R., & Company. (See Mosler, Arthur R., assignor.)
Mosler, Arthur R., New York, assignor to A. R. Mosler & Company, Mount Vernon, N. Y. Spark-plug. No. 1,344,956; June 29; v. 275; p. 901.
Mosler Lock Company, The. (See Benham, Edgar M., assignor.)
Mosler Lock Company, The. (See Benham, William T., assignor.)
Mosler Lock Company, The. (See Benham, William T. and E. M., assignors.)
Mosler, Moses, New York, N. Y., and C. Bartels, Hamilton, Ohio, assignors to The Mosler Safe Company, New York, N. Y. Safe. No. 1,347,118; July 20; v. 276; p. 474.
Mosler, Moses, Cincinnati, and C. Bartels, Hamilton, Ohio, assignors to The Mosler Safe Company, New York, N. Y. Vault-vestibule. No. 1,349,138; Aug. 10; v. 277; p. 247.
Mosler Safe Company, The. (See Mosler, M., and Bartels, assignors.)
Mosley, Charles W., Hollywood, Calif. Milk-bottle cover. No. 1,350,167; Aug. 17; v. 277; p. 521.
Mosley, Richard K., East Orange, N. J. Delivery-cabinet. No. 1,358,866; Nov. 16; v. 280; p. 432.
Mosovský, Joseph, New York, N. Y. Baker's implement. No. 1,362,174; Dec. 14; v. 281; p. 285.
Moss, Alfred C., Ogden, Utah. Autographic camera. No. 1,363,899; Dec. 28; v. 281; p. 712.
Moss, Benjamin F., Bisbee, Ariz. Pump-piston. No. 1,333,211; Mar. 9; v. 272; p. 248.
Moss, Herbert. (See Robertson, N. Y., and Moss.)
Moss, Joseph W., Beacon, N. Y. Universal quick-thaw torch. No. 1,341,514; May 25; v. 274; p. 746.
Moss, Louis. (See Lozzitto, R., and Moss.)
Moss, Sanford A., Lynn, Mass., assignor to General Electric Company. Means for balancing reciprocating apparatus. No. 1,330,602; Feb. 10; v. 271; p. 266.
Mossay, Paul A. H., and H. C. E. Jacoby, London, England. Cooling arrangement for dynamo-electric machines. No. 1,342,179; June 1; v. 275; p. 111.
Mossberg, Frank, Company. (See Tuttle, Walter I., assignor.)
Mossberg, Frank, assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass. Reel or beam. No. 1,341,815; June 1; v. 275; p. 40.
Mossberg, Frank, assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass. Reel or beam. No. 1,341,816; June 1; v. 275; p. 40.
Mossberg, Frank, assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass. Reel or beam. No. 1,341,817; June 1; v. 275; p. 40.
Mossberg, Nels, Denver, Colo. Head-motion for concentrating-tables. No. 1,335,519; Mar. 30; v. 272; p. 849.
Mossberg, Oscar F., New Haven, Conn. Firearm. No. 1,348,035; July 27; v. 276; p. 713.
Mossberg Pressed Steel Corporation. (See Mossberg, Frank, assignor.)
Mossman, Benjamin, trustee. (See Starring, Alfred A., assignor.)
Mossman, Isaac, Tacoma, Wash. Scraper. No. 1,333,816; Mar. 16; v. 272; p. 428.
Mossovitz, Abraham, Baltimore, Md. Life-preserver. No. 1,359,267; Nov. 16; v. 280; p. 507.
Motala Verkstads Nya Aktiebolag. (See Von Porat, Karl H. V., assignor.)
Motasky, Felike, Stratford, Conn. Wheel. No. 1,330,884; Feb. 10; v. 271; p. 226.
Mote, Louis R. (See Bauck, W. H., and Mote.)
Mote, Lucy D., Westminster, London, England. Device for supporting and carrying invalids or patients. No. 1,347,549; July 27; v. 276; p. 616.
Motherwell, Robert N. (See Brackett, Tracey F., assignor.)
Mothmiller, Raymond E., Pleasant Hill, Ohio. Door-closer. No. 1,363,900; Dec. 28; v. 281; p. 712.
Motion Picture Apparatus Co. (See Pennypacker, Edward J., assignor.)
Motion Picture Apparatus Company. (See Borman, Sidney, assignor.)
Motor-Compressor Company, The. (See Van Vleck, Horace R., assignor.)
Motor Protector Manufacturing Company. (See Mooers, B. M., and Warner, assignors.)
Motor Terminals Company. (See Fitch, Benjamin F., assignor.)
Motors Lock Company of America. (See Swyers, Brice P., assignor.)
Motosacoche Societé Anonyme. (See Isliker, Albert, assignor.)
Motsenbocker, James A., assignor of one-half to E. F. Burkle, Indianapolis, Ind. Amusement apparatus. No. 1,326,954; Jan. 6; v. 270; p. 14.
Mott, Abram C., Jr., and L. Kinsley, assignors to Abram Cox Stove Company, Philadelphia, Pa. Means for forming recesses in sand molds. No. 1,328,582; Jan. 20; v. 270; p. 418.
Mott, Carl W. (See Johnston, E. A., and Mott.)
Mott, Carl W., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Plow. No. 1,328,756; Jan. 20; v. 270; p. 450.
Mott, Carl W., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Steering device for vehicles. No. 1,343,225; June 15; v. 275; p. 433.
Mott, Daniel V., assignor to E. G. Daniels, Fernie, British Columbia, Canada. Rail securing and supporting means. No. 1,354,000; Sept. 28; v. 278; p. 588.
Mott, Otis W., Jackson, Mich., assignor to Perlman Rim Corporation, New York, N. Y. Demountable rim of the cross-cut type. No. 1,338,390; Apr. 27; v. 273; p. 713.
Mott, Robert L., St. Louis, Mo. Syringe. No. 1,352,306; Sept. 7; v. 278; p. 114.
Mott, Samuel D., Passaic, N. J. Combined helmet and parachute for aviators' use. No. 1,330,274; Feb. 10; v. 271; p. 205.
Mott, Samuel D., Passaic, N. J. Airman's life-preserver. No. 1,337,788; Apr. 20; v. 273; p. 530.
Mott, Samuel D., Passaic, assignor of one-half to A. B. Sullivan, Allendale, N. J. Internal-combustion engine. No. 1,355,348; Oct. 12; v. 279; p. 281.
Mott, Samuel D., Passaic, assignor of one-half to A. B. Sullivan, Allendale, N. J. Aircraft propulsion. No. 1,361,276; Dec. 7; v. 281; p. 58.
Mott, Samuel D., Passaic, assignor of one-half to A. B. Sullivan, Allendale, N. J. Air-propeller. No. 1,361,277; Dec. 7; v. 281; p. 59.
Mott, Samuel D., Passaic, assignor of one-half to A. B. Sullivan, Allendale, N. J. Aeroplane-propeller. No. 1,361,399; Dec. 7; v. 281; p. 84.
Motta, Domingo, Genoa, assignor of two-thirds to E. Rugiu and A. Villain, Genoa, Italy. Stereotype for chalcographic, typographic, and lithographic reproduction. No. 1,331,119; Feb. 17; v. 271; p. 433.
Motta, Domingo, assignor of two-thirds to E. Rugiu and A. Villain, Genoa, Italy. Plastic material practically incombustible, strong, and possessing insulating properties. No. 1,331,519; Feb. 24; v. 271; p. 527.
Motte, Charles M., Paris, France. Tractor comprising driving and steering wheel. No. 1,338,837; May 4; v. 274; p. 34.
Motte, Charles M., Paris, France. Power-actuated balance-plow. No. 1,355,409; Oct. 12; v. 279; p. 242.
Motte, Charles M., assignor to Mrs. Delqué, born M. A. Habans, and C. M. Motte, Paris, France. Combined bonnet and car-body for automobile-vehicles. No. 1,343,519; June 15; v. 275; p. 490.
Motteau, Antime, Buenos Aires, Argentina. Window. No. 1,343,520; June 15; v. 275; p. 490.
Motteau, Antime, Buenos Aires, Argentina. Glass-pane holder. No. 1,347,706; July 27; v. 276; p. 647.
Mottlau, August J. (See Brock, A., Jr., Holst, and Mottlau.)
Motto, Joseph M. (See Dolan, John P., assignor.)
Motts, Charles W., and H. H. Lewis, assignor to Henry Weis Manufacturing Company, Atchison, Kans. Fender-attaching means. No. 1,334,312; Mar. 23; v. 272; p. 562.
Motz, Charles F., Monaca, Pa. Sand-blast machine. No. 1,351,581; Aug. 31; v. 277; p. 907.
Motz, Charles F., Monaca, Pa. Grinding-machine. No. 1,361,085; Dec. 7; v. 281; p. 21.
Motzer, Alfred, assignor to The Hobson & Motzer Co., Meriden, Conn. Auxiliary oiling system for Ford cars. No. 1,328,388; Jan. 20; v. 270; p. 381.
Moulder, Duncan, San Antonio, Tex. Steering-adjuster for automobiles. No. 1,349,469; Aug. 10; v. 277; p. 313.
Mouldin, George W., Danville, Ill. Motorcycle. No. 1,350,878; Aug. 24; v. 277; p. 705.
Moulds, Edward, Manchester, England. Vernier drilling-gage. No. 1,335,347; Mar. 30; v. 272; p. 817.
Moulton, Harley C., Dorchester, assignor to Arbetter Felling Machine Company, Boston, Mass. Work-presenting mechanism for blindstitch sewing-machines. No. 1,384,920; Mar. 23; v. 272; p. 678.
Moulton, William E., Watervliet, N. Y. Attachment for drills. No. 1,333,559; Mar. 9; v. 272; p. 314.

Digitized by Google

Mouneyrat, Antoine, Paris, France. Anaerobic chamber. No. 1,381,207; Feb. 17; v. 271; p. 448.
Mounger, Lon E. (See Weisnar, Fritz, assignor.)
Mount Carmel Brass Foundry Works. (See Somers, William A., assignor.)
Mount, Madison H., Los Angeles, Calif. Foot massager and strengthener. No. 1,345,096; June 29; v. 275; p. 927.
Mount, Thomas L., New York, N. Y. System for charging storage batteries. No. 1,348,236; Aug. 3; v. 277; p. 21.
Mount Vernon Car Manufacturing Company. (See Collison, Thomas A., assignor.)
Mount Vernon Company—Silversmiths, Inc., The. (See Macfarland, H. A., and Roth, assignors.)
Mount, William D., Lynchburg, Va. Flaker. No. 1,340,732; May 18; v. 274; p. 524.
Mount, William D., Lynchburg, Va. Filter. No. 1,348,036; July 27; v. 276; p. 713.
Mount, William D., Saltville, Va., assignor to Nitrogen Products Company, Providence, R. I. Cyanid-producing apparatus. No. 1,329,721; Feb. 3; v. 271; p. 70.
Mount, William D., Saltville, Va., assignor to Nitrogen Products Company, Providence, R. I. Producing cyanid. No. 1,329,722; Feb. 3; v. 271; p. 70.
Mount, William D., Saltville, Va., assignor to Nitrogen Products Company, Providence, R. I. Apparatus for recovering material from solution. No. 1,352,210; Sept. 7; v. 278; p. 95.
Mourne, John E., Denver, Colo., assignor to Locomotive Superheater Company, New York, N. Y. Feed-water heater. No. 1,356,729; Oct. 26; v. 279; p. 588.
Mousa, Oscar E., Fairbury, Ill. Implement for pushing and pulling. No. 1,337,719; Apr. 20; v. 273; p. 517.
Mouse, Harold E., Elkins, W. Va. Dirigible headlight. No. 1,349,085; Aug. 10; v. 277; p. 237.
Mousette, Alfred A., Leicester, Mass. Adjustable shade-roller. No. 1,345,097; June 29; v. 275; p. 927.
Mousley, Frank, Mortlake, London, England. Powder-puff and face-powder box or container. No. 1,355,412; Oct. 12; v. 279; p. 243.
Moussette, Oliver J., Brooklyn, N. Y. Brick-machine. No. 1,335,071; Mar. 30; v. 272; p. 766.
Moving Picture Appliance Co. (See Porter, Edwin F., assignor.)
Movsessian, Missak. (See Vincent, Joseph E., assignor.)
Mowatt, Alexander, Warkworth, assignor, by direct and mesne assignments, of one-third to J. H. E. Vrooman, one-third to B. Asselstine, and one-third to E. Mastin, Belleville, Ontario, Canada. Harrow for eliminating quack-grass and the like. No. 1,350,512; Aug. 24; v. 277; p. 635.
Mowbray, Archibald J. H. (See Jones, A. W. Bryden, and Mowbray.)
Mowbray, James W., Windsor, assignor of two-thirds to D. A. Stewart, Listowel, and one-third to J. C. Siemon, Toronto, Ontario, Canada. Internal-combustion engine. No. 1,356,730; Oct. 26; v. 279; p. 588.
Mowbray, James W., Windsor, Ontario, Canada, assignor, by mesne assignments, to The Automotive Corporation, Fort Wayne, Ind. Hydraulic control for tractors. No. 1,358,974; Nov. 16; v. 280; p. 543.
Mowery, Rosie M., North Yakima, Wash. Jar-receptacle. No. 1,329,989; Feb. 3; v. 271; p. 120.
Mowry, Charles L., and C. L. Dudley, Woodlawn, Pa. Apparatus for repairing furnace-linings. No. 1,363,610; Dec. 28; v. 281; p. 656.
Mowry, Edward, Sterling, Ill., assignor, by mesne assignments, to International Harvester Company. Side-delivery rake and tedder. No. 1,329,468; Feb. 3; v. 271; p. 24.
Mowry, Joseph R., Cleveland, Ohio. Locomotive check-valve. No. 1,354,440; Sept. 28; v. 278; p. 677.
Mowry, Ray M., Los Angeles, Calif. Length-indicator for baling-machines and the like. No. 1,342,301; June 1; v. 275; p. 151.
Moxon, George C., New York, N. Y. Paper-fastening clasp. No. 1,335,850; Apr. 6; v. 273; p. 27.
Moxon, George C., New York, N. Y. Envelop-clasp. No. 1,335,851; Apr. 6; v. 273; p. 27.
Moyer, Fredella H., Westmont borough, Pa. Side frame. No. 1,349,624; Aug. 17; v. 277; p. 417.
Moyer, Fredella H., and G. E. Thackray, Westmont borough, Pa. Reversing-valve. No. 1,362,539; Dec. 14; v. 281; p. 356.
Moyer, John A., Harriman, Pa. Water glass and column reflector and protector. No. 1,345,799; July 6; v. 276; p. 92.
Moyer, Jonas J., Oakland, Calif. Tonsil-snare. No. 1,359,908; Nov. 23; v. 280; p. 680.
Moyer, William E., Portland, Oreg. Clothespin. No. 1,330,646; Feb. 10; v. 271; p. 274.
Moyers, Oscar C., assignor of one-fourth to W. A. Moyers, Crosbyton, Tex. Flash-eliminator. No. 1,351,960; Sept. 7; v. 278; p. 49.
Moyers, William A. (See Moyers, Oscar C., assignor.)
Moyle, Henry D., *et al.* (See Watanabe, Bunzo, assignor.)
Moyle, Herbert L., London, England. Boot-polish-box holder. No. 1,363,901; Dec. 28; v. 281; p. 712.
Moyler, Harry L. (See Hill, N. C., and Moyler.)
Mruk, Laudie J., Butte, Mont. Lubricator. No. 1,336,853; Apr. 13; v. 273; p. 278.
Muchow, William M., Evanston, Ill. Means for preparing amalgam for dentists' use. No. 1,356,731; Oct. 26; v. 279; p. 588.
Muck, John, Milwaukee, Wis. Clothespin. No. 1,342,755; June 8; v. 275; p. 276.
Muckenfuss, Charles, assignor of one-half to H. H. Metham, Cleveland, Ohio. Signal system. No. 1,337,021; Apr. 13; v. 273; p. 310.
Muckenhirn, Charles H., Detroit, Mich. Apparatus for making hollow earthenware parts. No. 1,332,514; Mar. 2; v. 272; p. 65.
Muckle, Clarence J., Clear Water, Minn. Cream-cooler. No. 1,329,426; Feb. 3; v. 271; p. 15.
Muckle, Theodore W., Denver, Colo. Method of and furnace for melting metallic masses. No. 1,363,188; Dec. 21; v. 281; p. 534.
Muddiman, Charles A., Washington, D. C. Hot-water boiler or tank. No. 1,355,413; Oct. 12; v. 279; p. 243.
Muden, Rochus, Hartford, Conn. Taper-boring tool. No. 1,330,385; Feb. 10; v. 271; p. 226.
Mudge, Roger A., Sutherland, near Sydney, New South Wales, Australia. Device for securing removable treads on motor-tires. No. 1,358,975; Nov. 16; v. 280; p. 453.
Mueller, Adolph, trustee. (See Brown, William R., assignor.)
Mueller, Adolph, trustee. (See Mueller, Philip, assignor.)
Mueller, Albert B., Chicago, Ill. Picture-projection apparatus. No. 1,348,656; Aug. 3; v. 277; p. 102.
Mueller, August, New York, N. Y. Hatband-loom. No. 1,351,533; Aug. 31; v. 277; p. 897.
Mueller, Charles W., Jersey City, N. J. Fish and crab trap. No. 1,339,275; May 4; v. 274; p. 115.
Mueller, Curt L. E., assignor to The Challenge Spark Plug Company, Joliet, Ill. Internal-combustion engine. No. 1,360,561; Nov. 30; v. 280; p. 877.
Mueller, Elmer F. E., Chicago, Ill. Musical instrument. No. 1,326,955; Jan. 6; v. 270; p. 14.
Mueller, Fred W., California, Mo. Incubator. No. 1,344,591; June 22; v. 275; p. 766.
Mueller, Frederick E., Mount Vernon, assignor to The Norma Company of America, Long Island City, N. Y. Die. No. 1,335,907; Apr. 6; v. 273; p. 38.
Mueller, Frederick E., Mount Vernon, assignor to The Norma Company of America, Long Island City, N. Y. Die. No. 1,335,908; Apr. 6; v. 273; p. 39.
Mueller, Frederick O. (See Thieme, O., and Mueller.)
Mueller, H., Manufacturing Co. (See Haley, George S.)
Mueller, H., Manufacturing Co. (See O'Dell, Frank T., assignor.)
Mueller, John G., Dayton, Ohio. Rail-brace. No. 1,353,412; Sept. 21; v. 278; p. 426.
Mueller, John L., St. Louis, Mo. Measuring and cutting mechanism. No. 1,353,661; Sept. 21; v. 278; p. 477.
Mueller, L. J., Furnace Company. (See Buller, Charles M., assignor.)
Mueller, Matilda, Rugby, N. D. Toothbrush. No. 1,353,780; Sept. 21; v. 278; p. 500.
Mueller, Max E., Youngstown, Ohio. Method of and apparatus for recovering ammonium chlorid. No. 1,346,967; July 20; v. 276; p. 445.
Mueller, Max E., Youngstown, Ohio. Making hydrocyanic acid and cyanids. No. 1,347,518; July 27; v. 276; p. 609.
Mueller Metals Company. (See Helby, C. G., Burkam, Lindquist, Allen, Riggin, and Lau, assignors.)
Mueller, Peter J. O., Peoria, Ill. Signaling device for vehicles. No. 1,351,532; Aug. 31; v. 277; p. 897.
Mueller, Philip, assignor to A. Mueller, trustee, Decatur, Ill. Eel-guard for cocks. No. 1,345,946; July 6; v. 276; p. 122.
Mueller, Philip, assignor to A. Mueller, trustee, Decatur, Ill. Fuller-ball. No. 1,350,378; Aug. 24; v. 277; p. 608.
Mueller, Philip, assignor to A. Mueller, trustee, Decatur, Ill. Strainer for bibs. No. 1,356,547; Oct. 26; v. 279; p. 552.
Mueller, Philip, assignor to A. Mueller, trustee, Decatur, Ill. Fuller bibb with elastic stem. No. 1,359,521; Nov. 23; v. 280; p. 604.
Mueller, Philip, assignor to A. Mueller, trustee, Decatur, Ill. Fuller ball. No. 1,359,522; Nov. 23; v. 280; p. 604.
Mueller, Ralph S. (See Dusinberre, George B., assignor.)
Mueller, Robert, Yonkers, N. Y. Honey-bee-frame inspection-stand. No. 1,363,149; Dec. 21; v. 281; p. 527.
Mueller, Rudolph J. J., assignor to Universal Oxygen Company, Sheboygan, Wis. Cheese-hoop. No. 1,343,402; June 15; v. 275; p. 467.
Mueller, Rudolph J. J., assignor to Universal Oxygen Company, Sheboygan, Wis. Valve for high-pressure-fluid containers. No. 1,345,388; July 6; v. 276; p. 12.
Muench, Carl G., International Falls, Minn. Fiber plaster board and making same. No. 1,337,254; Apr. 20; v. 273; p. 428.
Muennich, Frank, Cleveland, Ohio. Window-sash fastener. No. 1,329,723; Feb. 3; v. 271; p. 70.
Muentnich, Fred A. (See Tiemann, George, assignor.)
Muffley, Elvay J., Decatur, Ill. Visible-front magazine-holder. No. 1,330,894; Feb. 17; v. 271; p. 390.
Muffly, Ross E. (See Rice, K. B., and Muffly.)
Muffly, Ross E., Canton, Ohio. Tire-chain. No. 1,336,869; Apr. 6; v. 273; p. 126.

Digitized by Google

Muha, Andrew, Cleveland, Ohio. Cleansing and polishing composition. No. 1,342,862; June 8; v. 275; p. 298.
Mühl, Ernst, Philadelphia, Pa. Steam-condensing turbine. No. 1,346,413; July 13; v. 276; p. 276.
Muhlfeld, John E., Scarsdale, N. Y. Baffle-wall. No. 1,340,907; May 25; v. 274; p. 628.
Muhsgnug, Carl J. (See Fuligni, B., and Muhsgnug.)
Muinonen, Hiskias, Negaunee, Mich. Tension-device protector. No. 1,333,560; Mar. 9; v. 272; p. 314.
Muinonen, Hiskias, Negaunee, Mich. Shoemaker's machine. No. 1,333,561; Mar. 9; v. 272; p. 314.
Muinonen, Hiskias, Negaunee, Mich. Spool-holder. No. 1,333,562; Mar. 9; v. 272; p. 314.
Muir, Archibald C., Brilliant, N. Mex. Railway-track equipment. No. 1,345,389; July 6; v. 276; p. 12.
Muir, Dora K., administratrix. (See Muir, Edward A.)
Muir, Edward A., deceased; D. K. Muir, administratrix, Washington, D. C., assignor to the Government of the United States. Ordnance. No. 1,346,794; July 13; v. 276; p. 352.
Muir, Wellington W., Lockport, N. Y. Cooling system. No. 1,346,331; July 13; v. 276; p. 260.
Mulder, Thomas P., Kalamazoo, Mich. Tool for applying tips to laces. No. 1,339,217; May 4; v. 274; p. 105.
Mülertz, André, Copenhagen, Denmark. Machine for unearthing and gathering roots and the like. No. 1,347,962; July 27; v. 276; p. 698.
Mulford, H. K., Company. (See Reichel, John, assignor.)
Mulford, Samuel T., Philadelphia, Pa. Safety clip device for windows. No. 1,359,093; Nov. 16; v. 280; p. 474.
Mulgrave, Francis J., *et al.* (See Stevenson, Peter G., assignor.)
Mulinex, Chase, Tolley, N. D. Rotary engine. No. 1,350,168; Aug. 17; v. 277; p. 521.
Mulkern, John J., Cambridge, Mass. Wall bolt-holder. No. 1,349,977; Aug. 17; v. 277; p. 485.
Mulkern, Thomas A., Hollywood, assignor of one-half to C. E. Kerlee, Los Angeles, Calif. Vaporiser for internal-combustion engines. No. 1,350,079; Aug. 17; v. 277; p. 504.
Mull, Benjamin H., Cleveland, Ohio. Airplane. No. 1,335,852; Apr. 6; v. 273; p. 27.
Mull, Edward E., Ottawa, Ill. Clothes-support. No. 1,362,730; Dec. 21; v. 281; p. 445.
Mullane, James P., Cambridge, Mass. Shirt. No. 1,350,169; Aug. 17; v. 277; p. 521.
Mullane, Patrick, East Moline, Ill. Can-opener. No. 1,334,782; Mar. 23; v. 272; p. 651.
Mullaney, James J. (See Mullaney, William F., and J. J.)
Mullaney, William F. and J. J., Buffalo, N. Y. Hayrack. No. 1,359,824; Nov. 23; v. 280; p. 663.
Mullen, Charles P. (See Plummer and Mullen.)
Mullen, Frank, Ramey, Pa. Container lifter and carrier. No. 1,330,487; Feb. 10; v. 271; p. 245.
Mullen, George B., Bay Side, N. Y. Dust-cap for tire-valves. No. 1,353,061; Sept. 14; v. 278; p. 299.
Mullendore, William W., Knoxville, Tenn. Window shade and curtain hanger. No. 1,360,137; Nov. 23; v. 280; p. 726.
Müller, Charles, Zurich, Switzerland. Hatching instrument for drawings. No. 1,362,635; Dec. 21; v. 281; p. 427.
Muller, Charles A., Islip, assignor to August Mietz Corporation, New York, N. Y. Controlling mechanism for internal-combustion engines. No. 1,343,980; June 22; v. 275; p. 646.
Muller, Christian, Fall River, Mass. Piston-grooving tool. No. 1,346,838; July 20; v. 276; p. 419.
Müller, Emil, Basel, Switzerland, assignor to The Hoffmann-La Roche Chemical Works, New York, N. Y. Homologue of tropine and producing same. No. 1,352,082; Sept. 7; v. 278; p. 71.
Muller, Ernest W., Brooklyn, N. Y. Correcting faults in tubular members. No. 1,354,576; Oct. 5; v. 279; p. 25.
Müller, Eugen L., Schöneberg, and F. Siegheim, Wilmersdorf, near Berlin, Germany. Stoneworking-machine. No. 1,359,615; Nov. 23; v. 280; p. 622.
Muller, Frank. (See Koval, Martin M., assignor.)
Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Cutter-grinding machine. No. 1,338,319; Apr. 27; v. 273; p. 700.
Muller, Frederick H., Chicago, Ill. Making coffee and apparatus therefor. No. 1,345,947; July 6; v. 276; p. 122.
Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Cutter-grinding machine. No. 1,338,320; Apr. 27; v. 273; p. 700.
Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Threading-machine. No. 1,347,788; July 27; v. 276; p. 664.
Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Lead-varying mechanism. No. 1,347,789; July 27; v. 276; p. 664.
Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Milling-cutter. No. 1,348,295; Aug. 3; v. 277; p. 33.
Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Making milling-cutters. No. 1,348,296; Aug. 3; v. 277; p. 33.
Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Making milling-cutters. No. 1,348,297; Aug. 3; v. 277; p. 33.
Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Making milling-cutters. No. 1,348,298; Aug. 3; v. 277; p. 33.
Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Making milling-cutters. No. 1,348,299; Aug. 3; v. 277; p. 34.
Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Making milling-cutters. No. 1,348,300; Aug. 3; v. 277; p. 34.
Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Making milling-cutters. No. 1,348,301; Aug. 3; v. 277; p. 34.
Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Making milling-cutters. No. 1,348,302; Aug. 3; v. 277; p. 34.
Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Making milling-cutters. No. 1,348,303; Aug. 3; v. 277; p. 34.
Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Thread-milling hob. No. 1,348,304; Aug. 3; v. 277; p. 35.
Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Making thread-milling hobs. No. 1,348,305; Aug. 3; v. 277; p. 35.
Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Making thread-milling hobs. No. 1,348,306; Aug. 3; v. 277; p. 35.
Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Milling-cutter. No. 1,348,307; Aug. 3; v. 277; p. 35.
Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Making milling-cutters. No. 1,348,308; Aug. 3; v. 277; p. 36.
Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Making milling-cutters. No. 1,348,309; Aug. 3; v. 276; p. 36.
Müller, Friederich, assignor to The Whitney Mfg. Co., Hartford, Conn. Making chains. No. 1,346,507; July 13; v. 276; p. 294.
Müller, Friederich, assignor to The Whitney Mfg. Co., Hartford, Conn. Blank-finishing machine. No. 1,360,240; Nov. 23; v. 280; p. 746.
Müller, Friederich, assignor to The Whitney Mfg. Co., Hartford, Conn. Producing metallic bushings and similar cylindrical bodies, &c. No. 1,360,241; Nov. 23; v. 280; p. 746.
Müller, Friederich, assignor to The Whitney Mfg. Co., Hartford, Conn. Machine for producing metallic bushings and similar cylindrical bodies. No. 1,360,242; Nov. 23; v. 280; p. 746.
Müller, Friederich, assignor to The Whitney Mfg. Co., Hartford, Conn. Metallic bushing and similar cylindrical body. No. 1,360,243; Nov. 23; v. 280; p. 747.
Müller, Fritz, Berne, Switzerland, assignor of one-half to A. Leutenegger, Olten, Switzerland. Draw-bar balance for vehicles. No. 1,333,932; Mar. 16; v. 272; p. 444.
Müller, Gebhard, New York, N. Y. Mechanical movement. No. 1,349,470; Aug. 10; v. 277; p. 313.
Müller, Gebhard, New York, N. Y. Mechanical movement. No. 1,359,416; Nov. 16; v. 280; p. 538.
Muller, Gustav A. H., Montreal, Quebec, Canada. Conveyance. No. 1,335,520; Mar. 30; v. 272; p. 849.
Müller, Henry, Waterbury, Conn. Tap-guide. No. 1,346,235; July 13; v. 276; p. 240.
Müller, Henry, Waterbury, Conn. Joiner's clamp. No. 1,346,236; July 13; v. 276; p. 240.
Muller, Henry, East Orange, N. J. Card-index. No. 1,350,665; Aug. 24; v. 277; p. 665.
Müller, Jakob, Veltheim, Switzerland, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Starting-valve for combustion-engines. No. 1,343,226; June 15; v. 275; p. 434.
Muller, Jean P., Le Havre, France. Automatic life-saving apparatus. No. 1,329,990; Feb. 3; v. 271; p. 121.
Muller, John O., West Hoboken, N. J. Fastening device. No. 1,336,752; Apr. 13; v. 273; p. 258.
Müller, Josef, Frauenfeld, Switzerland. Type-tie. No. 1,341,574; May 25; v. 274; p. 757.
Müller, Karl. (See Goldschmidt, H., and Müller.)
Muller, Max, New York, N. Y. Hair fringe. No. 1,346,718; July 13; v. 276; p. 336.
Muller, Max, New York, N. Y. Hair-waving. No. 1,354,414; Sept. 28; v. 278; p. 672.
Muller, Otto A., Duncan, Okla. Carbon-scraper for piston-ring grooves. No. 1,345,215; June 29; v. 275; p. 951.
Muller, Otto J., New York, N. Y., assignor of one-half to Ladislav Kaplan, Clinton, Conn. Securing means for the ends of strings for instruments. No. 1,363,902; Dec. 28; v. 281; p. 712.
Muller-Thym, Bernard, Kansas City, Mo. Sanctuary-lamp. No. 1,335,011; Mar. 30; v. 272; p. 754.
Muller, William F., assignor to Perfect Re-Fillable Fuse, Inc., Brooklyn, N. Y. Refillable electric fuse. No. 1,341,662; June 1; v. 275; p. 9.
Mullett, Howard A., Wauwatosa, assignor to The Milwaukee Electric Railway & Light Company, Milwaukee, Wis. Fare-box. No. 1,353,970; Sept. 28; v. 278; p. 582.
Mulligan, Francis D., Belfast, Ireland. Non-porous cement. No. 1,338,033; Apr. 27; v. 273; p. 646.

Digitized by Google

Mulligan, John A., Narragansett Pier, R. I. Envelop-opener. No. 1,353,413; Sept. 21; v. 278; p. 426.
Mulligan, John J. (See Thum, W., Mulligan, and Schleicher.)
Mullikin, Brooks J., New York, N. Y. Overshoe for tires. No. 1,328,757; Jan. 20; v. 270; p. 450.
Mullin, Joseph H., assignor of one-half to Thomas Reilly, New Haven, Conn. Spring-wheel. No. 1,359,825; Nov. 23; v. 280; p. 664.
Mullin, Lenora E., Oak Park, Ill. Foundation-girdle. No. 1,345,800; July 6; v. 276; p. 93.
Mullin, Thomas J., assignor to The Richardson Paper Company, Lockland, Ohio. Building material. No. 1,362,888; Dec. 21; v. 281; p. 476.
Mullin, W. A. (See Creason, Frank, assignor.)
Mullin, William A. (See Creason, Frank, assignor.)
Mullins, Thomas L., Aubrey, Tex. Dipping-vat. No. 1,345,801; July 6; v. 276; p. 93.
Mullis, Charles, Manufacturing Company. (See Williams, James A., assignor.)
Mulloy, John H., assignor to Morgan & Wright, Detroit, Mich. Tire mold and clamp. No. 1,363,150; Dec. 21; v. 281; p. 527.
Mulroney, Charles H., Cleveland, Ohio. Tooth for shovel-dippers. No. 1,363,189; Dec. 21; v. 281; p. 534.
Multicolor Printing and Machinery Company. (See Galland, Charles N., assignor.)
Multiple Storage Battery Company. (See Sturges, Norman D., assignor.)
Multipost Company. (See Balkwill, Wesley J., assignor.)
Multipost Company. (See Schweiger and Balkwill, assignors.)
Mulvany, Alva B., assignor of one-half to L. J. Husted, Kansas City, Mo. Splint apparatus. No. 1,347,396; July 20; v. 276; p. 529.
Mulvey, A. D., *et al.* (See Sherman, Harry L., assignor.)
Mulvey, Lester W., Newburyport, Mass. Circuit-breaker. No. 1,329,469; Feb. 3; v. 271; p. 24.
Mulvihill, Daniel C., Hannibal, Mo. Rammer. No. 1,330,086; Feb. 10; v. 271; p. 170.
Mulvihill, Daniel C., Hannibal, Mo. Lifting-jack. No. 1,343,274; June 15; v. 275; p. 442.
Mulvihill, Daniel C., Hannibal, Mo. Lifting-jack. No. 1,343,275; June 15; v. 275; p. 442.
Mulvihill, Edward R., *et al.* (See Caywood, James A., assignor.)
Mumford, Arthur G., Colchester, England. Making alloys. No. 1,355,769; Oct. 12; v. 279; p. 312.
Mumford Molding Machine Company. (See Gates, Philetus W., assignor.)
Mumford Molding Machine Company. (See Krause, William P., assignor.)
Mumford, Russell W., New York, N. Y., assignor to Refining Products Corporation, Wilmington, Del. Making decolorizing carbons. No. 1,359,094; Nov. 16; v. 280; p. 475.
Mummelthey, Ferdinand, and C. H. Holmes, Coraopolis, Pa. Apparatus for making nuts. No. 1,338,244; Apr. 27; v. 273; p. 685.
Mummert, Arden J., St. Louis, Mo., assignor to McQuay-Norris Manufacturing Company. Pattern for piston-rings. No. 1,333,212; Mar. 9; v. 272; p. 249.
Mummert, Arden J., assignor to McQuay-Norris Manufacturing Company, St. Louis, Mo. Packing-ring. No. 1,356,461; Oct. 19; v. 279; p. 488.
Munch, O. W. (See Gibbs, Alonzo L., assignor.)
Muncy, David J., Amarillo, Tex. Guard. No. 1,353,811; Sept. 21; v. 278; p. 506.
Mungall, Thomas, assignor to Simplex Manufacturing Company, Cleveland, Ohio. Heat and cold indicator. No. 1,334,960; Mar. 30; v. 272; p. 744.
Munger, Eugene, Birmingham, Ala., assignor to Continental Gin Company. Cotton-tramper. No. 1,340,971; May 25; v. 274; p. 641.
Munger, Louis D., Springfield, Mass. Piston-groove tool. No. 1,351,057; Aug. 31; v. 277; p. 803.
Munger, Melvin L., Lincoln, Nebr. Tire-vulcanizing mold. No. 1,334,629; Mar. 23; v. 272; p. 621.
Munhall, John, Pittsburgh, Pa. Staybolt structure. No. 1,328,053; Jan. 13; v. 270; p. 281.
Munley, James J. (See Goldstein, Jacob, assignor.)
Munn, Neil D., Dresden, Ontario, Canada. Starter for automobile-motors. No. 1,333,817; Mar. 16; v. 272; p. 423.
Munn, William B., assignor of one-half to M. Scharff, Memphis, Tenn. Wrapping-machine. No. 1,340,665; May 18; v. 274; p. 512.
Munnell, Alton F. (See La Tour, L., and Munnell.)
Munning, A. P., & Co. (See Zucker, Henry L., assignor.)
Munroe, Treadway B., Forest Glen, Md., assignor to B. G. Dahlberg, St. Paul, Minn. Plaster-board of fibrous material. No. 1,333,628; Mar. 16; v. 272; p. 387.
Munroe, Treadway B., Forest Glen, Md., assignor to B. G. Dahlberg, St. Paul, Minn. Thermo-insulation material and producing same. No. 1,335,909; Apr. 6; v. 273; p. 39.
Munroe, Treadway B., Forest Glen, Md., assignor to B. G. Dahlberg, St. Paul, Minn. Reinforced fibrous board and producing same. No. 1,335,910; Apr. 6; v. 273; p. 39.
Munroe, Treadway B., Forest Glen, Md., assignor to B. G. Dahlberg, St. Paul, Minn. Fireproofing composition and making same. No. 1,338,322; Apr. 27; v. 273; p. 700.
Munschauer, Frederick E., assignor to Niagara Machine & Tool Works, Buffalo, N. Y. Gage for sheet-metal shears, &c. No. 1,345,802; July 6; v. 276; p. 93.
Munson, Sweney, Fowler, Colo. Shock-absorber. No. 1,332,915; Mar. 9; v. 272; p. 193.
Munson, Sweney, Fowler, Colo. Bolt-lock. No. 1,346,907; July 20; v. 276; p. 433.
Munson, Sweney, Fowler, Colo. Engine air-cooling apparatus. No. 1,359,727; Nov. 23; v. 280; p. 644.
Munson, Sweney, Fowler, Colo. Headlight-dimmer. No. 1,360,138; Nov. 23; v. 280; p. 726.
Munster, Harry J., San Diego, Calif. Spark-plug. No. 1,336,914; Apr. 13; v. 273; p. 290.
Munt, Walter B., Philadelphia, Pa. Tie-presser. No. 1,338,189; Apr. 27; v. 273; p. 675.
Munter, Charles, New York, N. Y. Body-stabilizer. No. 1,342,566; June 8; v. 275; p. 239.
Munter, Charles, New York, N. Y. Belt-operated lacing. No. 1,344,709; June 29; v. 275; p. 854.
Munter, Charles, New York, N. Y. Maternity-corset. No. 1,345,620; July 6; v. 276; p. 57.
Munter, Charles, New York, N. Y. Hook or stud. No. 1,345,621; July 6; v. 276; p. 57.
Munters, Anders J. E., assignor to Aktiebolaget Pump-Separator, Stockholm, Sweden. Means for controlling the proportion of liquids separated in centrifugal separators. No. 1,331,779; Feb. 24; v. 271; p. 576.
Munters, Anders J. E., assignor to Aktiebolaget Pump-Separator, Stockholm, Sweden. Strainer. No. 1,339,037; May 4; v. 274; p. 72.
Muntz, George M., and E. M. Roubieu, assignors to Tropenas Company, Brooklyn, N. Y. Utilizing steel scrap. No. 1,336,256; Apr. 6; v. 273; p. 104.
Muntz, Otto S., Dubuque, Iowa. Shock-absorbing container. No. 1,328,758; Jan. 20; v. 270; p. 450.
Muntz, William E., London, England. Deflecting spigot-tap. No. 1,345,803; July 6; v. 276; p. 93.
Muntz, William E., London, England. Treatment of vulcanized india-rubber goods embodying a foundation fabric. No. 1,354,123; Sept. 28; v. 278; p. 614.
Munz, William. (See Marvin, S. S., and Munz.)
Munzer, William R., Marcy, Minn. Ax. No. 1,330,213; Feb. 10; v. 271; p. 194.
Munzner, Charles, Chicago, Ill., assignor to American Stove Company, St. Louis, Mo. Perforated combustion-section. No. 1,333,563; Mar. 9; v. 272; p. 315.
Murar, Michael S., and L. F. Hamrock, Youngstown, Ohio. Railway-joint. No. 1,336,915; Apr. 13; v. 273; p. 290.
Muraski, Stanley, Waterbury, Conn. Lock. No. 1,352,018; Sept. 7; v. 278; p. 60
Murata, Rinosuke. (See Naito, H., and Murata.)
Muray, William R. (See Hofmann, George W., and Muray.)
Murdock, George J., Newark, N. J. War-aeroplane fuel-tank. No. 1,349,290; Aug. 10; v. 277; p. 278.
Murdock, Sidney A. (See Kellum, O. E., and Murdock.)
Murlless, Frederic T., Jr., Hartford, Conn. Locking means for orthodontia appliances. No. 1,347,285; July 20; v. 276; p. 507.
Murmann, Eugene O., Glendale, Calif. Can-opener. No. 1,329,133; Jan. 27; v. 270; p. 550.
Murmann, Eugene O., Glendale, Calif. Can-opener. No. 1,337,148; Apr. 13; v. 273; p. 334.
Murmann, Eugene O., Glendale, Calif. Can-opener. No. 1,338,643; Apr. 27; v. 273; p. 760.
Murmann, Eugene O., Glendale, Calif. Can-opener. No. 1,356,651; Oct. 26; v. 279; p. 572.
Murnane, Daniel J., Chicago Heights, Ill. Building structure. No. 1,352,678; Sept. 14; v. 278; p. 223.
Murnane, Daniel J., assignor to Zouri Drawn Metals Company, Chicago Heights, Ill. Glass-securing device. No. 1,351,058; Aug. 31; v. 277; p. 803.
Murphey, Walter P. (See Eklind, Carl E., assignor.)
Murphey, Walter P. (See Giles, Charles F., assignor.)
Murphy, A. (See Okun, Morris B., assignor.)
Murphy, Albert C., New York, N. Y. Reclaimed axle. No. 1,341,432; May 25; v. 274; p. 730.
Murphy, Charles A., Oakland, assignor of one-half to F. A. Tittemore, Richmond, Calif. Portable air-brush plant. No. 1,347,790; July 27; v. 276; p. 664.
Murphy, Charles E., assignor of one-third to F. C. Koetzla and one-third to W. G. Clark, St. Louis, Mo. Gage-cock. No. 1,356,732; Oct. 26; v. 279; p. 588.
Murphy, Clinton C., deceased, Chicago, Ill., E. B. Murphy, executrix, assignor to W. P. Murphy, New York, N. Y. Railway-car-door construction. No. 1,348,237; Aug. 3; v. 277; p. 22.
Murphy, Clinton C., deceased, Chicago, Ill., E. B. Murphy, executrix, assignor to W. P. Murphy, New York, N. Y. Car-door. No. 1,360,777; Nov. 30; v. 280; p. 919.
Murphy, Daniel R., Uniontown, Pa. Valve. No. 1,346,968; July 20; v. 276; p. 445.
Murphy, Edna B., executrix. (See Murphy, Clinton C.)
Murphy, Edwin J., assignor to General Electric Company, Schenectady, N. Y. Electromagnetic device. No. 1,352,307; Sept. 7; v. 278; p. 114.
Murphy, Edwin J., and L. W. Thompson, Schenectady, N. Y., assignors to General Electric Company. Regulating system for alternating-current circuits. No. 1,337,942; Apr. 20; v. 273; p. 559.
Murphy Engineering Company, The. (See Murphy, Peter W., assignor.)
Murphy, Finus E., Ridgely, Tenn. Heating-stove. No. 1,355,244; Oct. 12; v. 279; p. 211.

Digitized by Google

Murphy, G. W. J., Company. (See Bourque, David, assignor.)
Murphy, George F., Pittsburgh, Pa. Casing for shaft-joints. No. 1,352,019; Sept. 7; v. 278; p. 60.
Murphy, George H., Racine, Wis. Radiator-valve-venting device. No. 1,363,480; Dec. 28; v. 281; p. 631.
Murphy, H. P., Company. (See Murphy, Walter P., assignor.)
Murphy, Harold T., Springfield, Mass. Freight-car. No. 1,347,174; Jan 20; v. 276; p. 484.
Murphy, Harry, Muncie, Ind. Liquid nozzle and sprayer. No. 1,342,027; June 1; v. 275; p. 81.
Murphy, Howard J., Reading, Mass. Grease-cup. No. 1,335,521; Mar. 30; v. 272; p. 849.
Murphy, Hugh D., Fort Wayne, Ind. Electrical signaling system. No. 1,343,467; June 15; v. 275; p. 479.
Murphy, James W., Chicago, Ill. Electrical body-contact device. No. 1,363,807; Dec. 28; v. 281; p. 694.
Murphy, John A., Pueblo, Colo. Metal precipitator and separator. No. 1,349,086; Aug. 10; v. 277; p. 237.
Murphy, John T. and P. P., Chicopee Falls, Mass. Means for cutting. No. 1,343,639; June 15; v. 275; p. 514.
Murphy, Mary C., Haverhill, Mass. Garment and cutting same. No. 1,347,050; July 20; v. 276; p. 461.
Murphy, Mathilde R., North Plainfield, N. J., assignor of one-half to M. Golein, Brooklyn, N. Y. Cooking utensil. No. 1,332,057; Feb. 24; v. 271; p. 629.
Murphy, Morton, Marion, Ind. Baffle-plate device for electric fireless cookers. No. 1,346,666; July 13; v. 276; p. 326.
Murphy, Patrick P. (See Murphy, John T. and P. P.)
Murphy, Peter W., assignor to The Murphy Engineering Company, Detroit, Mich. Oiling system for internal-combustion engines. No. 1,332,948; Mar. 9; v. 272; p. 199.
Murphy, Peter W., assignor to The Murphy Engineering Co., Detroit, Mich. Cam. No. 1,339,276; May 4; v. 274; p. 115.
Murphy, Peter W., assignor to Murphy Engineering Company, Chicago, Ill. Wear take-up for slides. No. 1,344,592; June 22; v. 275; p. 767.
Murphy, Peter W., assignor to The Murphy Engineering Company, Detroit, Mich. Guideway and sliding member therefor. No. 1,348,371; Aug. 3; v. 277; p. 48.
Murphy, Peter W., assignor to The Murphy Engineering Company, Detroit, Mich. Explosive-engine. No. 1,352,985; Sept. 14; v. 278; p. 284.
Murphy, Robert N., Ottawa, Ontario, Canada. Heater. No. 1,354,055; Sept. 28; v. 278; p. 599.
Murphy, Stephen J., Drogheda, Ireland. Storage cylinder or vessel for compressed air or gas. No. 1,350,666; Aug. 24; v. 277; p. 665.
Murphy, Thomas, New York, N. Y. Padlock-seal holder. No. 1,346,414; July 13; v. 276; p. 276.
Murphy, Thomas I., St. Lawrence, S. D. Solution for treatment of iron and steel. No. 1,351,961; Sept. 7; v. 278; p. 50.
Murphy, Thomas J. (See Wilbur, M. D., Cannon, and Murphy.)
Murphy, Thomas J., assignor of one-half to J. P. B. Duffy, Rochester, N. Y. Arc-lamp system. No. 1,350,170; Aug. 17; v. 277; p. 521.
Murphy, Thomas J., assignor of one-half to J. P. Duffy, Rochester, N. Y. Stop mechanism for sound-reproducing apparatus. No. 1,359,728; Nov. 23; v. 280; p. 644.
Murphy, Thomas W., Philadelphia, Pa. Liquid-elevating device. No. 1,354,330; Sept. 28; v. 278; p. 655.
Murphy, Thomas W., and W. Czarnecki, Philadelphia, Pa. Spray-nozzle. No. 1,340,136; May 11; v. 274; p. 355.
Murphy, Walter P. (See Bonsall, Charles D., assignor.)
Murphy, Walter P. (See Gilpin, Garth G., assignor.)
Murphy, Walter P. (See Murphy, Clinton C., assignor.)
Murphy, Walter P. (See Sandman, August G., assignor.)
Murphy, Walter P. (See Sisson, Vinton E., assignor.)
Murphy, Walter P., Chicago, Ill. Car-roof. No. 1,343,785; June 15; v. 275; p. 543.
Murphy, Walter P., Chicago, Ill. Car-roof. No. 1,343,786; June 15; v. 275; p. 543.
Murphy, Walter P., Chicago, Ill. Railway-car underframe. No. 1,347,963; July 27; v. 276; p. 698.
Murphy, Walter P., New York, N. Y. Railway-car underframe. No. 347,964; July 27; v. 276; p. 698.
Murphy, Walter P., New York, N. Y., assignor to P. H. Murphy Company, Parnassus, Pa. Car-roof. No. 1,360,562; Nov. 30; v. 280; p. 877.
Murphy, William F., Tomkinsville, N. Y. Device for locking tires and demountable rims to carriers. No. 1,361,086; Dec. 7; v. 281; p. 21.
Murray, Angus R. (See Murray, Angus and A. R.)
Murray, Angus and A. R., Glasgow, Scotland. Packing device for pistons, rams, rods, and the like. No. 1,347,351; July 20; v. 276; p. 520.
Murray, Anne. (See Benton, James G., assignor.)
Murray, Carl, Curtis, Nebr. Rural-mail-box installation. No. 1,337,089; Apr. 13; v. 273; p. 323.
Murray, Charles F., Oregon City, Oreg. Fishhook. No. 1,333,564; Mar. 9; v. 272; p. 315.
Murray, Charles F., Evanston, Ill. Automobile-radiator heater. No. 1,355,245; Oct. 12; v. 279; p. 211.
Murray Company, The. (See Henry, Nelson B., assignor.)
Murray, Donald, London, England, assignor to The Western Telegraph Company, New York, N. Y. Paper-feed mechanism for printing-telegraphs, &c. No. 1,352,308; Sept. 7; v. 278; p. 114.
Murray, Edward, assignor to Detroit Automatic Lock Nut Company, Detroit, Mich. Lock-nut. No. 1,334,389; Mar. 23; v. 272; p. 576.
Murray, Ethelbert T. R., Hertsfordshire, and G. F. Shotter, London, England. Electric switch. No. 1,349,429; Aug. 10; v. 277; p. 305.
Murray, Frank M., Cadyville, N. Y. Wrench. No. 1,342,643; June 8; v. 275; p. 253.
Murray, George C., assignor to Keyoke Railway Equipment Company, Chicago, Ill. Draft-rigging attachment. No. 1,348,141; July [illegible]; v. 276; p. 734.
Murray, George C., Chicago, Ill. Draft-rigging construction. No. 1,361,087; Dec. 7; v. 281; p. 21.
Murray, Henry S., Denver, Colo. Portable instantaneous water-heater. No. 1,357,891; Nov. 2; v. 280; p. 132.
Murray, Herbert, *et al.* (See Ash, Richard L., assignor.)
Murray, Howard J., New York, N. Y. Power transmission. No. 1,359,616; Nov. 23; v. 280; p. 622.
Murray, James G. (See Sawders, F. P., and Murray.)
Murray, James J. (See Clark, M., and Murray.)
Murray, James P. (See Kelly, Daniel R., assignor.)
Murray, John F. (See Filkins, George H., assignor.)
Murray, John M., Philadelphia, Pa. Nut and bolt tightening device. No. 1,332,351; Mar. 2; v. 272; p. 33.
Murray, John T., Danielsville, Ga. Piston-ring. No. 1,346,237; July 13; v. 276; p. 241.
Murray, Joseph B. (See Murray, T. E., Jr., and J. B.)
Murray, Joseph B. and T. E., Jr., Brooklyn, N. Y. Apparatus for electrically welding the sections of a hollow object. No. 1,333,274; Mar. 9; v. 272; p. 260.
Murray, Maxwell, U. S. Army. Starting and stopping device for talking-machines. No. 1,334,783; Mar. 23; v. 272; p. 651.
Murray, Patrick J. (See Washburn, Thomas V., assignor.)
Murray, Peter W., Buffalo, N. Y. Clasp. No. 1,340,284; May 18; v. 274; p. 439.
Murray, Robert W., New Lexington, Ohio. Valve. No. 1,341,146; May 25; v. 274; p. 674.
Murray, Samuel R., Indianapolis, Ind. Composition for paving and other purposes. No. 1,327,726; Jan. 13; v. 270; p. 220.
Murray, T. E., Jr., and J. B., Brooklyn, N. Y. Standard pedestal for cream-separators or the like. No. 1,363,152; Dec 21; v. 281; p. 528.
Murray, Thomas E. (See Christians, George W., assignor.)
Murray, Thomas E. (See Rypinski, Albert B., assignor.)
Murray, Thomas E., New York, N. Y. Seal-fastening. No. 1,333,276; Mar. 9; v. 272; p. 260.
Murray, Thomas E. New York, N. Y. Electric fuse. No. 1,339,965; May 11; v. 274; p. 322.
Murray, Thomas E., New York, N. Y. Sheet-metal vehicle-wheel. No. 1,350,827; Aug. 24; v. 277; p. 696.
Murray, Thomas E., New York, N. Y. Making a plurality of like tubular objects. No. 1,350,829; Aug. 24; v. 277; p. 697.
Murray, Thomas E., New York, N. Y. Electric cut-out. No. 1,363,151; Dec. 21; v. 281; p. 527.
Murray, Thomas E., Brooklyn, N. Y. Closure for openings in boiler-headers. No. 1,350,832; Aug. 24; v. 277; p. 697.
Murray, Thomas E., Brooklyn, N. Y. Electrically welding transverse plates to tubes. No. 1,350,833; Aug. 24; v. 277; p. 697.
Murray, Thomas E., Brooklyn, N. Y. Closure for openings in boiler-headers. No. 1,363,153; Dec. 21; v. 281; p. 528.
Murray, Thomas E., Brooklyn, N. Y. Electrically welding together the edges of thin metal plates. No. 1,363,156; Dec. 21; v. 281; p. 528.
Murray, Thomas E., Brooklyn, N. Y. Uniting metal plates. No. 1,363,161; Dec. 21; v. 281; p. 529.
Murray, Thomas E., Jr. (See Murray, Joseph B. and T. E., Jr.)
Murray, Thomas E., Jr., Brooklyn, N. Y. Elongated cylindrical projectile-shell. No. 1,329,134; Jan. 27; v. 270; p. 551.
Murray, Thomas E., Jr., Brooklyn, N. Y. Electric welding. No. 1,333,273; Mar. 9; v. 272; p. 260.
Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Electric welding. No. 1,329,135; Jan. 27; v. 270; p. 551.
Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Electrical welding. No. 1,329,136; Jan. 27; v. 270; p. 551.
Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Electric welding and product thereof. No. 1,332,563; Mar. 2; v. 272; p. 75.
Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Metal-incased tube and producing same. No. 1,333,275; Mar. 9; v. 272; p. 260.
Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Producing a rib on an electrically-welded joint. No. 1,339,966; May 11; v. 274; p. 322.
Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Electrically welding metal bodies. No. 1,339,967; May 11; v. 274; p. 322.

Digitized by Google

Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Electrical welding. No. 1,339,968; May 11; v. 274; p. 323.
Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Electrical welding. No. 1,339,969; May 11; v. 274; p. 323.
Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Producing longitudinal ribs on the exterior of tubes. No. 1,339,970; May 11; v. 274; p. 323.
Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Electrical welding. No. 1,339,971; May 11; v. 274; p. 323.
Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Electrical welding. No. 1,339,972; May 11; v. 274; p. 323.
Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Hollow projectile shell of sheet metal. No. 1,350,828; Aug. 24; v. 277; p. 697.
Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Making housings for automobile transmission-gear. No. 1,350,830; Aug. 24; v. 277; p. 697.
Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Electric welding. No. 1,350,831; Aug. 24; v. 277; p. 697.
Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Making metal housings for transmission-gears. No. 1,363,154; Dec. 21; v. 281; p. 528.
Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Housing for transmission-gears and axles of automobiles. No. 1,363,155; Dec. 21; v. 281; p. 528.
Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Electrically-welded tube and making the same. No. 1,363,157; Dec. 21; v. 281; p. 528.
Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Electrically-welded tube and making the same. No. 1,363,158; Dec. 21; v. 281; p. 529.
Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Electrically-welded tube. No. 1,363,159; Dec. 21; v. 281; p. 529.
Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Inclosing tubes within tubes. No. 1,363,160; Dec. 21; v. 281; p. 529.
Murray & Tregurtha Company. (See Funderburk, Otis C., assignor.)
Murray, William B., Danville, Ill., assignor to The Miller Train Control Corporation, Staunton, Va. Train-control system. No. 1,337,255; Apr. 20; v. 273; p. 429.
Murrin, John. (See Brewster, E. J., and Murrin.)
Murrin, John. (See Wafer, W. H., and Murrin.)
Murrin, John, and E. J. Brewster, Chicago, Ill. Adjustable journal-bearing. No. 1,342,059; June 1; v. 275; p. 87.
Murry, John A. (See Mayer, Joseph W., assignor.)
Murtha, Walter B., New York, N. Y. Combined coat and hat hanger. No. 1,342,346; June 1; v. 275; p. 143.
Murtha, Walter B., New York, N. Y. Check-protector. No. 1,356,548; Oct. 26; v. 279; p. 552.
Murton, Trevor G., Detroit, Mich. Telephone locking device. No. 1,332,564; Mar. 2; v. 272; p. 75.
Murufas, Menelaus G., Los Angeles, Calif. Chrome-rollers for printing presses. No. 1,353,662; Sept. 21; v. 278; p. 477.
Musante, John L., Frederick, Md. Propeller. No. 1,333,126; Mar. 9; v. 272; p. 232.
Muschenheim, Frederick A., and F. W. Blasdale, New York, N. Y. Electrical indicator. No. 1,327,837; Jan. 13; v. 270; p. 240.
Muschenheim, Frederick A., and F. W. Blasdale, New York, N. Y. Switchboard and the like. No. 1,350,328; Aug. 24; v. 277; p. 598.
Musebeck, George E., assignor of one-fourth to G. E. Musebeck, one-fourth to R. Jennings, one-fourth to C. W. Conaway, and one-fourth to W. A. Wadsworth, Milwaukee, Wis. Vamp for shoes. No. 1,333,213; Mar. 9; v. 272; p. 249.
Musgjerd, Iver O., Osnabrock, N. D. Bolt. No. 1,362,501; Dec. 14; v. 281; p. 349.
Musgrave, Samuel H., Ocean Falls, British Columbia, Canada. Clod-crusher. No. 1,338,891; Apr. 27; v. 278; p. 713.
Musher and Company. (See Birch, Joseph F., Jr., assignor.)
Musiol, Charles, Brussels, Belgium. Enamel for enameling articles in sheet metal or cast metal. No. 1,332,058; Feb. 24; v. 271; p. 629.
Musman, François. (See Greten, A. C., and Musman.)
Musser, Harry A., Lexington, Ky., assignor of one-half to W. O. Walker, Oil City, Pa. Gas-burner. No. 1,359,417; Nov. 16; v. 280; p. 538.
Musser, Luther W., State College, Pa. Educational appliance. No. 1,335,126; Mar. 30; v. 272; p. 776.
Musser, Samuel G., Los Angeles, Calif. Amalgamator. No. 1,342,567; June 8; v. 275; p. 240.
Musson, Edward T., Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Wire wrapping and winding machine. No. 1,336,649; Apr. 13; v. 273; p. 238.
Mustad, Hans C. H., Christiania, Norway. Three-axled chassis for motor-driven vehicles. No. 1,332,949; Mar. 9; v. 272; p. 199.
Mutch, John. (See Zoog, C., and Mutch.)
Muth, George F., assignor to Newton Machine Tool Works, Incorporated, Philadelphia, Pa. Interlocking mechanism for cold-saw-cutting-off and like machines. No. 1,335,597; Mar. 30; v. 272; p. 863.
Muth, George F., assignor to Newton Machine Tool Works, Incorporated, Philadelphia, Pa. Air-valve. No. 1,348,123; July 27; v. 276; p. 730.
Muther, Lorenz. (See Glines, Frederick S., assignor.)
Muther, Lorenz. (See Lautenschlager, William F., assignor.)
Muther, Lorenz F., Newton, Mass. Positioning device for eyelet and hook setting machines. No. 1,336,854; Apr. 13; v. 273; p. 278.
Muther, Lorenz F., Newton, Mass. Eyeleting-machine. No. 1,336,855; Apr. 13; v. 273; p. 278.
Mutschler, A. & H. G., Inc. (See Mutschler, Henry G., assignor.)
Mutschler, Henry G., assignor to A. & H. G. Mutschler, Inc., Rochester, N. Y. Ribbon-inking machine. No. 1,351,582; Aug. 31; v. 277; p. 907.
Mutton, Arthur R., Waterloo, Iowa. Registration-card. No. 1,333,439; Mar. 9; v. 272; p. 291.
Mutual Electric & Machine Company. (See Frank, Harry, J. L., and L. H., assignors.)
Muzzy, Ernest E., assignor of one-half to C. H. Ritterbush, Canton, Ohio. Lawn-mower. No. 1,336,257; Apr. 6; v. 273; p. 105.
Muzzy, Ernest E., assignor of one-half to C. H. Ritterbush, Canton, Ohio. Lawn-trimmer. No. 1,351,185; Aug. 31; v. 277; p. 827.
Muzzy, William H., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Vacuum fuel-feed device. No. 1,335,792; Apr. 6; v. 273; p. 17.
Muzzy, William H., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Fuel-feeding device for vehicles and airplanes. No. 1,338,323; Apr. 27; v. 278; p. 700.
Myatt, William J., Birmingham, England. Turnbuckle and the like. No. 1,342,130; June 1; v. 275; p. 102.
Mycock, William, Manchester, England. Bearing for the cylinders of drying-machines. No. 1,342,131; June 1; v. 275; p. 102.
Myer, Albert P., assignor to Minneapolis Heat Regulator Co., Minneapolis, Minn. Alarm-clock. No. 1,331,276; Feb. 17; v. 271; p. 461.
Myers, Alfred A., *et al.* (See Keeley, Charles A., assignor.)
Myers, Charles D., Ware, assignor of one-half to E. K. Lathrop, Springfield, Mass. Soap-dispensing apparatus. No. 1,329,199; Jan. 27; v. 270; p. 563.
Myers, Clarence E., assignor to G. P. Pierce, Kansas City, Mo. Door-block for silos. No. 1,354,507; Oct. 5; v. 279; p. 12.
Myers, Clyde J., assignor to Swartz Electric Company, Indianapolis, Ind. Electric-power system. No. 1,355,410; Oct. 12; v. 279; p. 242.
Myers, Clyde J., assignor to Swartz Electric Company, Indianapolis, Ind. Timer for ignition-circuits of engines. No. 1,361,088; Dec. 7; v. 281; p. 21.
Myers, Cornelius T., Detroit, Mich. Air-deflecting device. No. 1,352,679; Sept. 14; v. 278; p. 223.
Myers, Dimp, assignor of one-half to A. Betz, Salt Lake City, Utah. Vaporizer for gas-engines. No. 1,363,190; Dec. 21; v. 281; p. 535.
Myers, Don D., assignor to Industrial Research Corporation, Toledo, Ohio. Inside hood-lock. No. 1,361,169; Dec. 7; v. 281; p. 37.
Myers, Edmund T. D., Jr., Richmond, Va. Smoke-control and drift-valve mechanism. No. 1,327,404; Jan. 6; v. 270; p. 97.
Myers, Eugene V., East Orange, N. J. Lubrication-indicator. No. 1,331,820; Feb. 24; v. 271; p. 584.
Myers, Eugene V., East Orange, N. J. Shock-absorber. No. 1,335,290; Mar. 30; v. 272; p. 806.
Myers, Eugene V., East Orange, N. J. Gas-engine cam. No. 1,357,413; Nov. 2; v. 280; p. 40.
Myers, Eugene V., East Orange, N. J., assignor to A. Schrader's Son, Inc., Brooklyn, N. Y. Tire-valve or the like. No. 1,338,245; Apr. 27; v. 273; p. 686.
Myers, Frederick, New York, N. Y., assignor to Myers Phonograph Corporation. Record-needle repointer. No. 1,331,850; Feb. 24; v. 271; p. 590.
Myers, Frederick, New York, N. Y., assignor to Myers Phonograph Corporation. Tone-modulator for phonographs. No. 1,338,950; May 4; v. 274; p. 55.
Myers, Frederick, New York, N. Y., assignor to Myers Phonograph Corporation. Gramophone-drive. No. 1,343,640; June 15; v. 275; p. 514.
Myers, George W., Lafayette, La. Stove. No. 1,358,570; Nov. 9; v. 280; p. 328.
Myers, Henry E., Bowman, N. D. Eye-tester. No. 1,349,625; Aug. 17; v. 277; p. 417.
Myers, Henry G. (See Chandler, F. F., and Myers.)
Myers, Hubert A., Toledo, Ohio. Repeating attachment for phonographs. No. 1,330,603; Feb. 10; v. 271; p. 266.
Myers, Hubert A., Toledo, Ohio. Signal means. No. 1,349,848; Aug. 17; v. 277; p. 460.
Myers, Hubert A., assignor to The Myers Spark Plug Co., Toledo, Ohio. Spark-plug. No. 1,356,304; Oct. 19; v. 279; p. 459.

Digitized by Google

Alphabetical list of patentees—Continued.

Myers, John M., Woodcliff Lake, N. J. Bookbinding. No. 1,341,575; May 25; v. 274; p. 758.
Myers, John S., Morton, assignor of one-half to J. B. F. Showalter, Pekin, Ill. Grain-elevator. No. 1,356,390; Oct. 19; v. 279; p. 475.
Myers, Laura M., Chicago, Ill. Game or toy. No. 1,352,309; Sept. 7; v. 278; p. 115.
Myers, Leonard C. (See Williams, Herman A., assignor.)
Myers, Lester B., Monte Vista, Colo. Rotary clipper. No. 1,334,112; Mar. 16; v. 272; p. 479.
Myers, Louis, Detroit, Mich. Bottle-cap remover. No. 1,345,948; July 6; v. 276; p. 123.
Myers, Louis, Detroit, Mich. Tray. No. 1,345,949; July 6; v. 276; p. 123.
Myers, Morton E., and M. A. J. Harper, New York, N. Y. Cinematograph-machine. No. 1,357,076; Oct. 26; v. 279; p. 656.
Myers, O. M. (See Mason, Loren D., assignor.)
Myers, Perry M., Lockeford, Calif. Combined differential and clutch transmission. No. 1,336,532; Apr. 13; v. 273; p. 216.
Myers, Philip H., Philadelphia, Pa. Switch-lock. No. 1,348,729; Aug. 3; v. 277; p. 115.
Myers Phonograph Corporation. (See Myers, Frederick, assignor.)
Myers, Ralph E., and R. D. Hall, assignors to Westinghouse Lamp Company, East Orange, N. J. Filament for incandescent electric lamps. No. 1,363,162; Dec. 21; v. 281; p. 529.
Myers Spark Plug Co. (See Myers, Hubert A., assignor.)
Myers, Walter S., Darby, Pa. Nut-lock. No. 1,351,676; Aug. 31; v. 277; p. 925.
Myers, Will R. (See Hiller, T., and Myers.)
Myers, William H. (See Leech, F. J., and Myers.)
Myers, William H., New York, N. Y. Corner-brace for cases and the like. No. 1,356,391; Oct. 19; v. 279; p. 475.
Myers, William M. (See Sillett, H. C., and Cowan, assignors.)
Myers, William R., Hampton, Va. Fire-bucket. No. 1,344,557; June 22; v. 275; p. 759.
Myers, William S., and A. L. Smith, Ashland, Ky., assignors of one-third to C. R. Wilson, Chicago, Ill. Portable boring and grinding device for automobile-cylinders. No. 1,339,409; May 11; v. 274; p. 216.
Myers, Winter W., Brooklyn, assignor to Austral Window Company, New York, N. Y. Fastening means for windows. No. 1,326,956; Jan. 6; v. 270; p. 14.
Myers, Winter W., Brooklyn, assignor to Austral Window Company, New York, N. Y. Balanced window. No 1,359,095; Nov. 16; v. 280; p. 475.
Myerson, Simon, Cambridge, assignor to American Guaranteed Tooth Company, Inc., Boston, Mass. Riveting-tool. No. 1,357,247; Nov. 2; v. 280; p. 9.
Mylins, Walter G. (See Bradshaw, W. M., and Mylins.)
Myrick, George H., Chicago, Ill. Dish-washing machine. No. 1,335,853; Apr. 6; v. 273; p. 28.
Myvalt, Joseph, and A. S. Ellason, New York, N. Y. Automatic window-guard. No. 1,355,246; Oct. 12; v. 279; p. 211.
N. V. Machinefabriek Brons. (See Brons, Derk, assignor.)
N. V. Vitrite Works. (See Ghijsen, Hulbert C., assignor.)
Naamlooze Vennootschap Weduwe J. Ahrend & Zoons Industries- en Handelsvereeniging. (See Koechlin, Emile R., assignor.)
Naber, Moses H., Chicago, Ill. Shock-absorber. No. 1,344,593; June 22; v. 275; p. 767.
Nabors, George P., Argenta, Ark. Combined grinder and gummer machine. No. 1,347,965; July 27; v. 276; p. 698.
Nacey, Harry M., Chicago, Ill. Fusible link. No. 1,362,812; Dec. 21; v. 281; p. 462.
Nacey, James, Cleveland, Ohio. Sectional ship and joining the sections. No. 1,338,246; Apr. 27; v. 273; p. 686.
Nachenius, Henri A. J. D., Haarlem, Netherlands. Reversible traversing motion. No. 1,350,560; Aug. 24; v. 277; p. 645.
Nack, Peter R., St. Louis, Mo. Caster. No. 1,345,622; July 6; v. 276; p. 57.
Nadel, Abram R., Dorchester, Mass. Loose-leaf sketching-pad. No. 1,338,951; May 4; v. 274; p. 56.
Nadel, Louis D. (See Catucci, P., and Nadel.)
Nadelson, Philip, Yonkers, N. Y. Light-concentrator. No. 1,331,661; Feb. 24; v. 271; p. 554.
Nadon, Camille L., assignor of one-half to A. L. Sinclair, Minneapolis, Minn. Rack-cutting attachment for Fellows gear-cutters. No. 1,330,949; Feb. 17; v. 271; p. 401.
Nadvornik, William A., Detroit, Mich. Means for removably supporting mop-wringing mechanism. No. 1,360,309; Nov. 30; v. 280; p. 828.
Naftel, Paul F., and H. H. Garner, Pomona, Calif. Tractor-tread oiler. No. 1,339,523; May 11; v. 274; p. 238.
Nafziger, Arthur B., Odessa, Wash. Combination drinking-fountain and faucet. No. 1,346,047; July 6; v. 276; p. 142.
Nagai, Wilhelm N., Tokyo, Japan, assignor to M. D. Bunnell, San Francisco, Calif. Hydriatic and making same. No. 1,356,877; Oct. 26; v. 279; p. 617.
Nagel, Carl. (See Cranston, William C., assignor.)
Nagel, Carl E., St. Paul, Minn. Reinforced-concrete piling. No. 1,340,397; May 18; v. 274; p. 461.
Nagel, Frank A., Cicero, Ill. Tire-filler. No. 1,362,731; Dec. 21; v. 281; p. 445.
Nagel, Henry W., Charleston, S. C. Sewer-trap. No. 1,351,677; Aug. 31; v. 277; p. 925.
Nagel, Henry W., Chicago, Ill., assignor of one-half to A. C. Ronda. Loading device. No. 1,342,456; June 8; v. 275; p. 218.
Nagel, Henry W., Chicago, Ill., assignor of one-half to A. C. Ronda. Sand-drying plant. No. 1,346,238; July 13; v. 276; p. 241.
Nagel, Oskar, Vienna, Austria, assignor, by mesne assignments, to The Chemical Foundation, Inc. Recovering metals from natural waters. No. 1,358,096; Nov. 9; v. 280; p. 233.
Nagel, W. G., Electrict Company, The. (See Decker, H. L., and Adams, assignors.)
Nagelvoort, Adriaan, assignor to The Nitrogen Corporation, Providence, R. I. Producing sodium bicarbonate and hydrogen. No. 1,352,211; Sept. 7; v. 278; p. 95.
Nagler, Harry, Brooklyn, N. Y. Show-case lock. No. 1,352,680; Sept. 14; v. 278; p. 223.
Nagy, Louis, Toler, Ky. Rail-fastening. No. 1,361,532; Dec. 7; v. 281; p. 112.
Nainka, Anthony, Janesville, Wis. Shampooing apparatus. No. 1,329,058; Jan. 27; v. 270; p. 586.
Nainka, Anthony, Janesville, Wis. Nut-lock. No. 1,332,268; Mar. 2; v. 272; p. 18.
Nairn Linoleum Company, The. (See O'Brien, Charles A., assignor.)
Naito, Harujiro, and R. Murata, Nagoya, Japan. Car-truck shock-arrester or shock-preventing apparatus. No. 1,334,671; Mar. 23; v. 272; p. 629.
Nakabayashi, Kisaburo, administrator. (See Nakabayashi, Yoshinobu.)
Nakabayashi, Yoshinobu, deceased, Seattle, K. Nakabayashi, administrator, Seattle, Wash. Fender for ships. No. 1,339,663; May 11; v. 274; p. 265.
Nakahara, Ichigoro, Tokyo, Japan. Dental articulator. No. 1,341,191; May 25; v. 274; p. 683.
Nakamizo, Hirotsune T., Los Angeles, Calif. Automobile-top raising and lowering device. No. 1,361,606; Dec. 7; p. 127.
Nakamura, Goken, Kobe, Japan. Amusement device. No. 1,342,223; June 1; v. 275; p. 120.
Nakasora, Seihachiro, Niles, Calif. Direction-indicator. No. 1,353,128; Sept. 14; v. 278; p. 311.
Nall, Charles P., Minneapolis, Minn. Grain-separator. No. 1,333,127; Mar. 9; v. 272; p. 232.
Nalle, Charles R., Fort Worth, Tex. Hairpin. No. 1,347,707; July 27; v. 276; p. 647.
Nalle, William C., *et al.* (See Simmons, James L., assignor.)
Namolick, Anthony, assignor of one-half to J. Gratkowski, Scranton, Pa. Automatic railway-crossing gate. No. 1,360,139; Nov. 23; v. 280; p. 726.
Naniwa Grease Kabushiki-Kaisha, The. (See Tanaka, Yataro, assignor.)
Nankervis, Charles T., Indianapolis, Ind. Loose-leaf ledger. No. 1,349,577; Aug. 17; v. 277; p. 408.
Napier, Charles, assignor to Napier Saw Works Inc., Springfield, Mass. Tempered blades. No. 1,333,767; Mar. 16; v. 272; p. 414.
Napier, Charles, assignor to Napier Saw Works Inc., Springfield, Mass. Apparatus for making tempered blades. No. 1,350,618; Aug. 24; v. 277; p. 656.
Napier, Charles, assignor to Napier Saw Works, Inc., Springfield, Mass. Tempered blade. No. 1,352,140; Sept. 7; v. 278; p. 82.
Napier, Charles, assignor, by mesne assignments, to Metal Saw & Machine Co., Inc., Springfield, Mass. Metal-sawing machine. No. 1,360,972; Nov. 30; v. 280; p. 957.
Napier, Charles H., Macon, Ga. Target-throwing device. No. 1,353,663; Sept. 21; v. 278; p. 478.
Napier, D., & Son. (See Rowledge, Arthur J., assignor.)
Napier, George R., Cleveland, Ohio. Meat-chopping machine. No. 1,346,096; July 6; v. 276; p. 152.
Napier Saw Works. (See Napier, Charles, assignor.)
Napolillo, Antonio, Rivesville, W. Va. Check-holding device. No. 1,353,605; Sept. 21; v. 278; p. 466.
Narbett, Walter M., Richmond, Calif. Necktie-clasp. No. 1,345,216; June 29; v. 275; p. 951.
Narodick, Martin, Chicago, Ill. Glare-preventing device for headlights. No. 1,333,033; Mar. 9; v. 272; p. 215.
Narrow Fabric Company, The. (See Plumb, Frederic W., assignor.)
Nash, Alexander G., Kansas City, Mo. Ignition-detector and spark-intensifier. No. 1,338,521; Apr. 27; v. 273; p. 737.
Nash, Archie L., East Spencer, N. C. Windshield-shade. No. 1,342,347; June 1; v. 275; p. 143.
Nash, Charles J., assignor to Universal Draft Gear Attachment Co., Chicago, Ill. Draft-gear yoke. No. 1,330,087; Feb. 10; v. 271; p. 170.
Nash, Charles J., Chicago, Ill., assignor to Universal Draft Gear Attachment Co. Draft-arm for railway-cars. No. 1,340,285; May 18; v. 274; p. 439.
Nash, Clarence A., Milwaukee, Wis. Manufacture of phenolic condensation products. No. 1,343,575; June 15; v. 275; p. 501.

Digitized by Google

Nash, John M., Wauwatosa, Wis. Wood sanding or polishing machine. No. 1,343,981; June 22; v. 275; p. 646.
Nash, Robert J. (See Alexander and Nash.)
Nash, Robert J., and G. H. Alexander, assignors to The A-N Company Limited, Birmingham, England. Fluid-pressure-measuring instrument. No. 1,345,870; July 6; v. 276; p. 106.
Nash, Thomas H., St. Pauls Cray, England. Beating and refining engine. No. 1,351,962; Sept. 7; v. 278; p. 50.
Nash Tractor Company. (See Nash, William, assignor.)
Nash, William, assignor to The Nash Tractor Company, Denver, Colo. Auxiliary radiator for automobiles. No. 1,353,263; Sept. 21; v. 278; p. 397.
Nash, William A., Plainview, Tex. Device for extracting automobiles from mud, sand, or ditches. No. 1,340,238; May 18; v. 274; p. 431.
Naslin, John O., Seattle, Wash. Door-closing device. No. 1,357,583; Nov. 2; v. 280; p. 72.
Naslin, John O., Seattle, Wash. Door-checking device. No. 1,360,008; Nov. 23; v. 280; p. 700.
Näslund, Jonas, Rimbo, Sweden. Combination-lock. No. 1,345,020; June 29; v. 275; p. 913.
Nasmith, John W., Heaton Mersey, England. Stitching-machine. No. 1,346,415; July 13; v. 276; p. 276.
Nason, Malcolm C. (See Ballerino, Alfonso P., assignor.)
Nason, Walton H., assignor to Sun Shipbuilding Company, Chester, Pa. Keel-block. No. 1,356,109; Oct. 19; v. 279; p. 420.
Nassoit, Harry B. (See Comerma, John, assignor.)
Naterman, Henry D., Los Angeles, Calif. Combination-garment. No. 1,361,892; Dec. 14; v. 281; p. 229.
Nathan, Frederic L., W. Rintoul, and F. Baker, deceased, Stevenston, Scotland; H. Baker, administrator, Eton, Windsor, England, assignors to Nobel's Explosives Company, Limited, Glasgow, Scotland. Gelatinized propellent explosive and preparing same. No. 1,338,691; May 4; v. 274; p. 8.
Nation, Don O., Hollywood, assignor of one-half to W. E. Nation, Los Angeles, Calif. Tire-spreader. No. 1,354,457; Sept. 28; v. 278; p. 680.
Nation, William E. (See Nation, Don O., assignor.)
National Acme Company, The. (See Smith, Oscar A., assignor.)
National Aniline & Chemical Company. (See Leaming, Thomas H., and Susemihl, assignors.)
National Aniline & Chemical Company. (See Taggesell, Richard, assignor.)
National Automatic Tool Company. (See Bockhoff, William F., assignor.)
National Bank Book Company. (See Schade, John, assignor.)
National Beet Harvester Company, The. (See Lewis, W. K., and Blevins, assignors.)
National Binding Machine Company. (See Bobst, Charles A., assignor.)
National Biscuit Company. (See Davidson, Frank B., assignor.)
National Brake & Electric Company. (See Aikman, Burton S., assignor.)
National Brass Company. (See Blye, Harold, assignor.)
National Candy Company. (See Bunde, Claude W., assignor.)
National Carbon Company. (See Batchelor, Harry D., assignor.)
National Carbon Company. (See Benner, R. C., and French, assignors.)
National Carbon Company Inc. (See Chapin, Harold C., assignor.)
National Carbon Company. (See Chase, Wallace S., assignor.)
National Carbon Company. (See Ellis, C., and Wells, assignors.)
National Carbon Company. (See Ellis, Carleton, assignor.)
National Carbon Company. (See Ellis and Wells, assignors.)
National Carbon Company. (See Feild, Alexander L., assignor.)
National Carbon Company. (See Foos, Marcus A., assignor.)
National Carbon Company. (See French, Harry F., assignor.)
National Carbon Company. (See Gillingham, Charles A., assignor.)
National Carbon Company. (See Hazelett, Clarence W., assignor.)
National Carbon Company. (See Hazelton, Charles H., assignor.)
National Carbon Company. (See Hinckley, Arthur T., assignor.)
National Carbon Company. (See Rampp, Frank, assignor.)
National Carbon Company. (See Spiers, Frederick G., assignor.)
National Carbon Company. (See Wacker, George W., assignor.)
National Carbon Company. (See Wells, Alfred A., assignor.)
National Card Mounting Company. (See List, Frank X., assignor.)
National Cash Register Company, The. (See Carroll, F. M., and Blakely, assignors.)
National Cash Register Company, The. (See Carroll, Fred M., assignor.)
National Cash Register Company, The. (See Fuller, Frederick L., assignor.)
National Cash Register Company. (See Goldberg, Maximilian M., assignor.)
National Cash Register Company, The. (See Gruber, Louis, assignor.)
National Cash Register Company, The. (See Lee, Charles L., assignor.)
National Cash Register Company, The. (See Martin, Haakon A., assignor.)
National Cash Register Company, The. (See Shipley, Hermis M., assignor.)
National Cash Register Company, The. (See Skerl, F., and Graef, assignors.)
National Dry Kiln Company, The. (See Caskey, William S., assignor.)
National Dump Car Co. (See Hart, Harry S., assignor.) (Reissue.)
National Dump Car Company. (See Hoscith, William J., assignor.)
National Dump Car Company. (See Otis, Spencer, assignor.)
National Electrical Supply Company. (See Johnson, Albert H., assignor.)
National Equipment Company. (See Bausman, Alonzo L., assignor.)
National Equipment Company. (See Bausman, A. L., and Perkins, assignors.)
National Equipment Company. (See Bausman, Alonzo L., assignor.)
National Fire Escape Corporation. (See Turner, William E., assignor.)
National Folding Box Company. (See Fisher, Frederick George, assignor.)
National Gauge & Equipment Company. (See Axen, John L., assignor.)
National Indicator Company. (See Klein, Frederick, assignor.)
National Indicator Company. (See Penso, M. E., and Klein, assignors.)
National Indicator Company. (See Turney, Eugene T., assignor.)
National Lead Company. (See Tolman, Charles P., assignor.)
National Lime & Stone Co., The. (See Otto, Matt, assignor.)
National Lock Washer Company. (See Conway, Thomas G., Jr., assignor.)
National Lock Washer Company, The. (See Hoyt, Daniel, assignor.)
National Machine Works. (See Levey, John, assignor.)
National Machine Company. (See Weatherby, S. M., and Stach, assignors.)
National Machinery Co., The. (See Clouse, William L., assignor.)
National Magnesia Manufacturing Company. (See Grunwald, Bertrand B., assignor.)
National Malleable Castings Company. (See Bazeley, Arthur J., assignor.)
National Malleable Castings Company, The. (See Bixby, Allan S., assignor.)
National Malleable Castings Company, The. (See Bucklus, Albert O., Jr., assignor.)
National Malleable Castings Company, The. (See Metzger, William J., assignor.)
National Malleable Castings Company, The. (See Spence, Hubert L., assignor.)
National Manufacturing Company. (See Ferris, Walton C., assignor.)
National Marking Machine Co., The. (See Schramm, Richard, assignor.)
National Marking Machine Company. (See Hoffman, Ray, assignor.)
National Metal Die Mold Company *et al.* (See Hachmann, Frederick, assignor.)
National Metal Edge Box Company. (See Coons, Henry R., assignor.)
National Metal Edge Box Company. (See Walz, C. F., and Morris, assignor.)
National Motion Picture Camera Company, The. (See Leonard, John E., assignor.)
National Oil Machinery Corporation. (See Ryan, Henry D., assignor.)
National Paper Can Company. (See Hulbert, Edwin F., assignor.)
National Phone Company, Inc. (See Weil, Maximilian, assignor.)
National Pie Crust Company. (See Willcox, Lealand C., assignor.)
National Pneumatic Company. (See Johnson, Frank, assignor.)
National Pneumatic Company. (See Meyers, George W., assignor.)
National Pneumatic Company. (See Rowntree, Harold, assignor.)
National Refrigerator Car Company. (See Baxter, William M., assignor.)
National Safety Appliance Company. (See Chittenden, F., and Folker, assignors.)

Digitized by Google

Alphabetical list of patentees—Continued.

National Safety Appliance Company. (See Folker, H. S., and Bidstrup, assignors.)
National Sales Machine Company. (See Hill, Ernst V., assignor.)
National Seal Company. (See Lee, Nixon, assignor.)
National Sewage and Garbage Corporation. (See Smith, John J., assignor.)
National Shorthand Machine Company. (See Ireland, Ward S., assignor.)
National Spring & Wire Company. (See Wiselogel, James J., assignor.)
National Sulphur Company. (See Free, Edward E., assignor.)
National Supply Company, The. (See Wright, Clyde S., assignor.)
National Surface Guard Company. (See Zimmerman, Clarence C., assignor.)
National Suspended Monorail Company. (See Shoemaker Richard W., assignor.)
National Tank and Pipe Company. (See Kirsch, Frederick M., assignor.)
National Tube Company. (See Baines, J. E., and Latshaw, assignors.)
National Tube Company. (See Fell, Charles, assignor.)
National Tube Company. (See Latshaw, Joseph W., assignor.)
National Tube Company. (See Sneddon, John, assignor.)
National Veneer Products Company. (See Erwin, Benjamin H., assignor.)
National X-Ray Reflector Company. (See Hotchkin, Paul M., assignor.)
Natkiel, Harry, and I. Freedman, assignors of one-third to Louis Potemkin, New York, N. Y. Hair-waver. No. 1,353,781; Sept. 21; v. 278; p. 500.
Nauckhoff, Birger, assignor to Zenite Metal Company, Indianapolis, Ind. Automobile-curtain window. No 1,355,247; Oct. 12; v. 279; p. 211.
Naudet, Leon, Chelles, France. Extracting sugar. No. 1,343,737; June 15; v. 275; p. 533.
Naudulaitis, Kleofas, Chicago, Ill. Sash-holder. No. 1,358,233; Nov. 9; v. 280; p. 259.
Naugle, Joseph R., Roxbury, Mass., assignor to Standard Thermometer Company, Portland, Me. Cutting-tool. No. 1,341,067; May 25; v. 274; p. 660.
Naujoks, Frederick C., Los Angeles, Calif. Electric switch. No. 1,344,925; June 29; v. 275; p. 896.
Nault, Archie, Portland, Oreg. Bolter-up tool. No. 1,338,338; Mar. 9; v. 272; p. 271.
Nault, Joseph, Nasonville, R. I. Picker. No. 1,329,991; Feb. 3; v. 271; p. 121.
Nauth, Walter W., Winona, Minn. Tonsillotome. No. 1,347,651; July 27; v. 276; p. 636.
Navarre, Joseph R., Lakeside, Wash. Safety device for aviators. No. 1,349,782; Aug. 17; v. 277; p. 447.
Navarro, M., Ignacio, Caracas, Venezuela. Dental-crown-making machine. No. 1,346,719; July 13; v. 276; p. 336.
Navy Gear Manufacturing Corporation, The. (See Petrelli, Joseph V., assignor.)
Nawn, Phil J., Milwaukee, Wis. Drafting and lettering instrument. No. 1,333,034; Mar. 9; v. 272; p. 215.
Nayer, Carl F., assignor to Packer's Machinery & Equipment Company, Chicago, Ill. Hog-scraper. No. 1,328,637; Jan. 20; v. 270; p. 428.
Nayer, Carl F., assignor to The Packers Machinery & Equipment Co., Chicago, Ill. Animal-scraping machine. No. 1,329,724; Feb. 3; v. 271; p. 70.
Nayer, Carl F., assignor to Packers Machinery & Equipment Company, Chicago, Ill. Hog-scraper. No. 1,329,725; Feb. 3; v. 271; p. 71.
Naylor, Cam. (See Naylor, William H. and C.)
Naylor, Jesse R., Sacramento, Calif. Traffic-signal. No. 1,328,097; Jan. 13; v. 270; p. 289.
Naylor, Ralph B., Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Testing device for determining the viscosity of rubber. No. 1,327,888; Jan. 13; v. 270; p. 240.
Naylor, William H. (See Hadcock, J., and Naylor.)
Naylor, William H. and C., Manchester, Ohio. Automobile gasolene-control lock. No. 1,331,120; Feb. 17; v. 271; p. 433.
Nazzareno, Eusebi, Telluride, Colo. Torpedo-defense. No. 1,345,623; July 6; v. 276; p. 58.
Nead, William S., Stillwater, Minn. Interchangeable lining. No. 1,358,387; Nov. 9; v. 280; p. 291.
Neahr, Jacob E., New York, N. Y. Match-igniting device. No. 1,330,895; Feb. 17; v. 271; p. 390.
Neahr, Jacob E., New York, N. Y. Match-safe. No. 1,334,961; Mar. 30; v. 272; p. 744.
Neahr, Jacob E., New York, N. Y. Combined match safe and igniting device. No. 1,335,012; Mar. 30; v. 272; p. 755.
Neahr, Jacob E., New York, N. Y. Match-igniting device. No. 1,338,692; May 4; v. 274; p. 8.
Neahr, Jacob E., New York, N. Y. Match-holder. No. 1,351,340; Aug. 31; v. 277; p. 859.
Neal, Albert, Kokomo, Ind. Lifting-jack. No. 1,355,842; Oct. 19; v. 279; p. 366.
Neal, Albert, Kokomo, Ind. Lifting-jack. No. 1,355,843; Oct. 19; v. 279; p. 367.
Neal, De Courcy, Detroit, Mich., assignor to Morgan & Wright. Tire-casing. No. 1,341,663; June 1; v. 275; p. 10.
Neal, Elmer E., New Haven, Conn., assignor to Marlin-Rockwell Corporation, New York, N. Y. Ball-gaging machine. No. 1,335,522; Mar. 30; v. 272; p. 849.
Neal, Franklin G. (See Ladd, F. C., and Neal.)
Neal, Franklin G., St. Louis, Mo. Machine for applying marks to articles. No. 1,339,857; May 11; v. 274; p. 802.
Neal, Henry C., Philadelphia, Miss. Airplane. No. 1,338,247; Apr. 27; v. 273; p. 686.
Neal, James H., *et al.* (See Boyd, Frederic R. C., assignor.)
Neal, Joseph A., Mobile, Ala. Twin circular resawing machine. No. 1,340,286; May 18; v. 274; p. 489.
Neal, Joseph A., Mobile, Ala. Attachment for resawing machines. No. 1,356,110; Oct. 19; v. 279; p. 420.
Neal, Lester, Peoria, Ill. Door-hinge. No. 1,330,647; Feb. 10; v. 271; p. 274.
Neal, Russell E., Palisades, N. J. Power device. No. 1,331,997; Feb. 24; v. 271; p. 618.
Neal, Spencer G., New York, N. Y., assignor, by mesne assignments, to Automatic Straight Air Brake Company, Wilmington, Del. Diaphragm check-valve. No. 1,328,886; Jan. 27; v. 270; p. 504.
Neal, Spencer G., New York, N. Y., assignor to Automatic Straight Air Brake Company, Wilmington, Del. Air-brake apparatus. No. 1,335,291; Mar. 30; v. 272; p. 806.
Neal, Spencer G., New York, N. Y., assignor, by mesne assignments, to Automatic Straight Air Brake Company, Wilmington, Del. Feed-valve for air-brake apparatus. No. 1,361,278; Dec. 7; v. 281; p. 59.
Neal, Spencer G., New York, N. Y., assignor to Automatic Straight Air Brake Company, Wilmington, Del. Triple valve for air-brake apparatus. No. 1,361,279; Dec. 7; v. 281; p. 59.
Neale, William M., Greensboro, N. C. Shade-fixture. No. 1,347,966; July 27; v. 276; p. 699.
Nebeker, F. O., *et al.* (See Gunn, Charles H., assignor.)
Nebeling, Edmund R., New York, N. Y. Separable fastener. No. 1,357,795; Nov. 2; v. 280; p. 113.
Nebergall, Philip V., assignor of one-half to C. W. Van Fleet, La Grande, Oreg. Printing attachment for paper holders and cutters. No. 1,330,386; Feb. 10; v. 271; p. 226.
Necedah Manufacturing Company. (See Lederer, Friedrich, assignor.)
Neckerman, Wilson R., Pittsburgh, Pa. Coin-controlled lock; No. 1,341,433; May 25; v. 274; p. 730.
Neddo, Richard, Norfolk, Va. Holder for advertisements and other papers. No. 1,349,906; Aug. 17; v. 277; p. 471.
Neederman, Stephen A., Los Angeles, Calif. Toy. No. 1,345,328; June 29; v. 275; p. 973.
Needham, Charles E. (See Gibson, W. A., and Needham.)
Needham, Joseph, New York, N. Y. Hydrocarbon-burner. No. 1,346,134; July 13; v. 276; p. 221.
Needham, Joseph, New York, N. Y. Gas-mixer. No. 1,355,998; Oct. 19; v. 279; p. 397.
Needham, Moses W., Waco, Tex. Rubber-tire filler with a flexible metal cable in the center. No. 1,339,472; May 11; v. 274; p. 228.
Needham, William H., assignor to Boston Pressed Metal Co., Worcester, Mass. Last-thimble. No. 1,327,839; Jan. 13; v. 270; p. 241.
Needle, Joseph J., Collinsville, Ill. Window-lock. No. 1,358,867; Nov. 16; v. 280; p. 432.
Needs, Augustus G., Perkiomenville, Pa. Bridge-reinforcement. No. 1,344,646; June 29; v. 275; p. 842.
Neel, Ernest A., Ripley, assignor of one-half to G. Griffin, Memphis, Tenn. Motor attachment for use by dentists or barbers. No. 1,360,778; Nov. 30; v. 280; p. 919.
Neelin, Thomas A., Winnipeg, Manitoba, Canada. Boot-brush. No. 1,327,288; Jan. 6; v. 270; p. 76.
Neely, Joseph A., McRoberts, Ky. Attaching device for trolley-hangers. No. 1,343,930; June 22; v. 275; p. 637.
Neely, Rant Y., Willamina, Oreg. Signal for motor-vehicles. No. 1,350,513; Aug. 24; v. 277; p. 636.
Neely, William D. (See Kellar, F., and Neely.)
Neeper, William M., Capac, Mich. Wreck-salvaging apparatus. No. 1,349,578; Aug. 17; v. 277; p. 408.
Nees, Ludwig B. (See Cressler, A. B., Nees, and Baumbach.)
Neesham, John B., Glasgow, Scotland. Molding-machine for foundry use. No. 1,354,124; Sept. 28; v. 278; p. 614.
Neff, Arthur P. (See Kellogg, Neff, Rogers, and Cowan.)
Neff, Floyd M., and W. B. Runner, Prattsburg, N. Y. Bag-holder. No. 1,342,348; June 1; v. 275; p. 143.
Neff, George W. B., Sandy, Utah. Leak-stopping composition. No. 1,343,150; June 8; v. 275; p. 355.
Neff, Harry D., Cambridge, assignor to Re-Filit Broom Company, Boston, Mass. Broom-holder. No. 1,350,514; Aug. 24; v. 277; p. 636.
Neft, Max, Seattle, Wash. Nut for guitars or the like. No. 1,338,583; Apr. 27; v. 273; p. 749.
Neft, Max, Seattle, Wash. Steel for guitars. No. 1,342,718; June 8; v. 275; p. 269.

Digitized by Google

Neft, Max, Seattle, Wash. Knife. No. 1,358,097; Nov. 9; v. 280; p. 833.
Negrescou, John, Chicago, Ill. Clothes-washing machine. No. 1,356,996; Oct. 26; v. 279; p. 640.
Negrescou, John, Chicago, Ill. Washing-machine. No. 1,360,009; Nov. 23; v. 280; p. 700.
Negus, Alfred C., Schenectady, N. Y. Flexible staybolt for steam-boilers. No. 1,348,657; Aug. 3; v. 277; p. 103.
Neher, John H., Princeton, N. J. Sound-recording and sound-reproducing machine. No. 1,363,903; Dec. 28; v. 281; p. 713.
Nehis, William H., Portage, Wis. Furnace. No. 1,362,259; Dec. 14; v. 281; p. 303.
Neibel, De Witt E., assignor to C. S. Smith and A. Lorraine, Kansas City, Mo. Discharge-closure for vending-machines. No. 1,358,388; Nov. 9; v. 280; p. 291.
Neidhardt, Loui W., Jeffersonville, Ind. Interchangeable protector-plate for ovens. No. 1,359,096; Nov. 16; v. 280; p. 475.
Neidl, William J., New Britain, Conn. Spirit-level and plumb. No. 1,362,813; Dec. 21; v. 281; p. 462.
Neidl, William J., New Britain, Conn. Level-stock. No. 1,362,814; Dec. 21; v. 281; p. 462.
Neighbor, Leonard B., East Moline, assignor to Deere & Company, Moline, Ill. Portable conveyer. No. 1,353,841; Sept. 28; v. 278; p. 556.
Neighbour, William W., Spartanburg, S. C. Shaft-bearing. No. 1,330,277; May 4; v. 274; p. 115.
Neighbour, William W., assignor of one-half to J. S. Cromer, Spartanburg, S. C. Rocker-arm-shaft bearing. No. 1,355,060; Oct. 5; v. 279; p. 121.
Neighbour, William W., assignor of one-half to J. S. Cromer, Spartanburg, S. C. Loom-temple. No. 1,355,770; Oct. 12; v. 279; p. 312.
Neikirk, John O., Lombard, Ill. Convertible railway-car. No. 1,330,950; Feb. 17; v. 271; p. 401.
Neikirk, John O., Lombard, Ill. Draft mechanism. No. 1,337,090; Apr. 13; v. 273; p. 323.
Neikirk, John O., Lombard, Ill., assignor to Rodger Ballast Car Company. Drop-door for railway-cars. No. 1,344,208; June 22; v. 275; p. 690.
Neil, Ewell, Nashville, Tenn. Syringe. No. 1,343,787; June 15; v. 275; p. 543.
Neil, Winfield S., Minot, N. D. Valve-handle. No. 1,343,086; June 8; v. 275; p. 342.
Neill, Guy D., Bostonia, Calif. Gage for setting compasses. No. 1,356,306; Oct. 19; v. 279; p. 459.
Neilson, John. (See Babcock, Clifford D., assignor.)
Neilson, Thomas, London, England. Valve and deflector of ventilating apparatus. No. 1,343,576; June 15; v. 275; p. 501.
Neitzel, Conrad T. (See Pade, G. V., and Neitzel.) (Reissue.)
Neldner, Stephen W., Milwaukee, Wis. Self-propelled rotor. No. 1,330,896; Feb. 17; v. 271; p. 390.
Neldner, Theresa M., Milwaukee, Wis. Registering mechanism for coin-controlled apparatus. No. 1,329,542; Feb. 3; v. 271; p. 87.
Nelis, Joseph J., Brooklyn, N. Y. Steam-separator. No. 1,351,433; Aug. 31; v. 277; p. 878.
Nelke, Harry, Philadelphia, Pa. Forming dolls from tubular blanks. No. 1,354,331; Sept. 28; v. 278; p. 655.
Nell, Gustave M., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Valve. No. 1,352,469; Sept. 14; v. 278; p. 180.
Neller, Albert H. (See Hassler, P. M., and Neller.)
Neller, Albert H., assignor to Louden Machinery Company, Fairfield, Iowa. Overhead-track switch. No. 1,333,183; Mar. 9; v. 272; p. 243.
Neller, Albert H., assignor to Louden Machinery Company, Fairfield, Iowa. Overhead carrier. No. 1,336,370; Apr. 6; v. 273; p. 126.
Neller, Albert H., assignor to The Louden Machinery Company, Fairfield, Iowa. Overhead-track hanger. No. 1,349,141; Aug. 10; v. 277; p. 248.
Neller, Albert H., Fairfield, Iowa, assignor to American Ironing Machine Company, Chicago, Ill. Clothes-wringer. No. 1,358,868; Nov. 16; v. 280; p. 433.
Nellis, Addan Monowi, Nebr. Gate-fastener. No. 1,339,781; May 11; v. 274; p. 288.
Nelson, Adolph L., Indianapolis, Ind. Handle for automobile-doors. No. 1,357,892; Nov. 2; v. 280; p. 132.
Nelson, Alexander. (See Avery, B. B., and Nelson, assignor.)
Nelson, Alexander, Newark, N. J., and B. B. Avery, New York, N. Y., assignors, by mesne assignments, to Germproof Cup Corporation, New York, N. Y. Former for manufacturing sanitary drinking-cups. No. 1,341,833; June 1; v. 275; p. 43.
Nelson, Alexander, Newark, N. J., and B. B. Avery, New York, N. Y., assignors, by mesne assignments, to Germproof Cup Corporation, New York, N. Y. Making drinking-cups. No. 1,341,834; June 1; v. 275; p. 44.
Nelson, Alexander, Newark, N. J., and B. B. Avery, New York, N. Y., assignors, by mesne assignments, to Germproof Cup Corporation, New York, N. Y. Machine for manufacturing and vending sanitary drinking-cups. No. 1,341,836; June 1; v. 275; p. 44.
Nelson, Alfred C. (See Reilly, E. J., and Nelson.)
Nelson, Andrew, and O. H. Hinnard, Chattanooga, Tenn. Non-skid wheel. No. 1,336,149; Apr. 6; v. 273; p. 84.
Nelson, Anton R., and I. Knoch, Susanville, Calif. Window-shade holder. No. 1,329,992; Feb. 3; v. 271; p. 121.
Nelson, Anton R., assignor of one-half to I. Knoch, Susanville, and one one-hundredth to F. M. Wright, San Francisco, Calif. Electrically wound and synchronized striking-clock. No. 1,353,935; Sept. 28; v. 278; p. 574.
Nelson, Arvid, assignor to Howe Lamp & Mfg. Co., Chicago, Ill. Rotary fan. No. 1,352,829; Sept. 14; v. 278; p. 253.
Nelson, Axel, Paxton, Ill. Gate. No. 1,357,108; Oct. 26; v. 279; p. 662.
Nelson, Axel A., Washington, D. C. Cord-cutter. No. 1,338,248; Apr. 27; v. 273; p. 686.
Nelson, Ben S. (See Luery, M., and Nelson.)
Nelson, Carl A., Moline, Ill. Valve for air-brakes. No. 1,338,190; Apr. 27; v. 273; p. 675.
Nelson, Carl A., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Process of and machine for removing combustible coverings. No. 1,351,186; Aug. 31; v. 277; p. 828.
Nelson, Carl O. (See Blessing, A. L., and Nelson.)
Nelson, Charles, Skykomish, Wash. Lifter. No. 1,353,782; Sept. 21; v. 278; p. 500.
Nelson, Charles, Skykomish, Wash. Lifter. No. 1,360,140; Nov. 23; v. 280; p. 727.
Nelson, Charles, and L. A. Coffeen, Denver, Colo. Beet-harvester. No. 1,336,313; Apr. 6; v. 273; p. 115.
Nelson, Charles A., East Berlin, Conn. Elevator and conveyer apparatus for brick-yards. No. 1,360,010; Nov. 23; v. 280; p. 701.
Nelson, Charles R., Marquette, Mich. Convertible sled. No. 1,335,292; Mar. 30; v. 272; p. 806.
Nelson, Charles R., Seattle, Wash. Clothes-pressing machine. No. 1,350,879; Aug. 24; v. 277; p. 608.
Nelson, Charley E., Morgan, Tex. Drag. No. 1,339,664; May 11; v. 274; p. 266.
Nelson, Clarence R. (See Stelting, Carl W., assignor.)
Nelson, Clark C., Rocky Ford, Colo. Tobacco mixture. No. 1,338,089; Apr. 27; v. 273; p. 656.
Nelson, Edward L., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Modulating and transmitting system. No. 1,349,729; Aug. 17; v. 277; p. 438.
Nelson, Elgnar. (See Johnson, G., and Nelson.)
Nelson, Elijah M., Villisca, Iowa. Tire-chain fastener. No. 1,341,924; June 1; v. 275; p. 61.
Nelson, Elnathan K., Takoma Park, Md. Vanillyl amin, vanillyl acyl amid, &c. No. 1,329,272; Jan. 27; v. 270; p. 576.
Nelson, Emil A., Detroit, Mich., assignor to Martin Jurist, Toledo, Ohio. Spring suspension for motor-vehicles. (Reissue.) No. 14,856; May 11; v. 274; p. 355.
Nelson, Ephriam H., Yale, Iowa. Tank-rack. No. 1,351,923; Sept. 7; v. 278; p. 42.
Nelson, Erik W., New Rochelle, N. Y. Projector. No. 1,336,479; Apr. 13; v. 273; p. 206.
Nelson, Frank C., assignor of one-half to G. W. DeWitt, Clarksburg, W. Va. Clothesline. No. 1,350,380; Aug. 24; v. 277; p. 609.
Nelson, Frederick, assignor of one-half to C. Esperson, Jamestown, N. Y. Leg extension. No. 1,336,480; Apr. 13; v. 273; p. 206.
Nelson, Fridolf. (See Nelson, John, and F.)
Nelson, George W., assignor to The Standard Sewing Machine Company, Cleveland, Ohio. Sewing-machine. No. 1,357,468; Nov. 2; v. 280; p. 50.
Nelson, George W., assignor to The Standard Sewing Machine Company, Cleveland, Ohio. Hinge. No. 1,362,130; Dec. 14; v. 281; p. 277.
Nelson, Gilbert, St. Paul, Minn. Artificial limb. No. 1,340,239; May 18; v. 274; p. 431.
Nelson, Gust E., Kingsburg, Calif. Portable platform. No. 1,331,121; Feb. 17; v. 271; p. 433.
Nelson, Harold, and J. Wedwick, Clifford, N. D. Dirigible headlight. No. 1,338,787; May 4; v. 274; p. 26.
Nelson, Henry, assignor of one-half to T. Sophus Hanson, Northwood, Iowa. Device for recovering pump-cylinders. No. 1,353,177; Sept. 21; v. 278; p. 381.
Nelson, Henry W., Ashby, Minn. Combined folding tent and bed. No. 1,335,456; Mar. 30; v. 272; p. 837.
Nelson, Iola B., St. Louis, Mo. Embroidery-chart. No. 1,360,779; Nov. 30; v. 280; p. 919.
Nelson, John. (See King, Roy D., assignor.)
Nelson, John, and F., North Yakima, Wash. Grader. No. 1,355,999; Oct. 19; v. 279; p. 397.
Nelson, John H., New Castle, Pa. Clothes-hanger cabinet. No. 1,345,624; July 6; v. 276; p. 58.
Nelson, Joseph F., Scott City, Kans. Right-angle handpiece for dental engines. No. 1,332,744; Mar. 2; v. 272; p. 109.
Nelson, Le Roy S. C. (See Leonard, Walter G., assignor.)
Nelson, Lewis B., Wallingford, Iowa. Dumping-body for vehicles. No. 1,353,062; Sept. 14; v. 278; p. 299.
Nelson, Martin J., Rye, N. Y. Egg-timer. No. 1,343,738; June 15; v. 275; p. 533.
Nelson, Nels. (See Williams, Charlie, assignor.)

Digitized by Google

Alphabetical list of patentees—Continued.

Nelson, Nels A., assignor to Baco Electric Co., Bode, Iowa. Electric heating-iron. No. 1,357,648; Nov. 2; v. 280; p. 84.
Nelson, Nels H., Spencer, Iowa. Roller window-screen. No. 1,356,083; Oct. 19; v. 279; p. 414.
Nelson, Nels M. (See Bashaw, E. E., and Nelson.)
Nelson, Nels P. (See Newdall, A., Nelson, and Newdall.)
Nelson, Nels S., and A. Boode, Lacombe, Alberta, Canada. Trap. No. 1,337,149; Apr. 13; v. 273; p. 334.
Nelson, Noah, Imperial, Calif. Walnut-picker. No. 1,330,488; Feb. 10; v. 271; p. 245.
Nelson, Olaf A., San Francisco, Calif. Cabinet. No. 1,341,994; June 1; v. 275; p. 74.
Nelson, Oscar T., Cleveland, assignor of fifty per cent. to C. A. Barnholth, Akron, Ohio. Internal-combustion engine. No. 1,336,371; Apr. 6; v. 273; p. 126.
Nelson, Oscar T., Cleveland, assignor of fifty per cent. to C. A. Barnholth, Akron, Ohio. Internal-combustion engine. No. 1,336,372; Apr. 6; v. 273; p. 126.
Nelson, Otto, Chicago, Ill. Valve-lifter. No. 1,348,658; Aug. 3; v. 277; p. 103.
Nelson, Roy A., Chicago, Ill. Reinforced steel plate. No. 1,356,000; Oct. 19; v. 279; p. 397.
Nelson, Swan, Winnifred, Alberta, Canada. Pump. No. 1,328,010; Jan. 13; v. 270; p. 272.
Nelson, Thomas, & Sons. (See Baldauf, Charles L., assignor.)
Nelson, Victor A. (See Hammontree, C. O., and Nelson.)
Nelson, Walter, Oslo, Minn. Belt-shifter. No. 1,359,909; Nov. 23; v. 280; p. 680.
Nelson, William, Patzau, Wis. Adjustable Steel Tie. No. 1,357,180; Oct. 26; v. 279; p. 675.
Nelson, William, assignor, by mesne assignments, to Consolidated American Fastener Companies, Inc., New York, N. Y. Machine for making the stud members of snap-buttons. No. 1,358,772; Nov. 16; v. 280; p. 413.
Nelson, William, assignor, by mesne assignments, to Consolidated American Fastener Companies, Inc., New York, N. Y. Machine for making the stud members of snap-buttons. No. 1,358,773; Nov. 16; v. 280; p. 413.
Nelson, William E., Fort Worth, Tex. Molding apparatus. No. 1,335,254; Mar. 30; v. 272; p. 799.
Németh, Joseph, New York, N. Y. Doll. No. 1,327,168; Jan. 6; v. 270; p. 54.
Nentwig, Otto. (See Shannon, Harris M., assignor.)
Nepstad, Carl O., Watford, N. D. Flour-sifter. No. 1,354,415; Sept. 28; v. 278; p. 672.
Neptune Sea Food Company. (See Koehl, George J., assignor.)
Neraas, Antone, Philadelphia, Pa. Piston. No. 1,362,435; Dec. 14; v. 281; p. 336.
Nerney, George E., Attleboro, Mass., assignor to Bay State Optical Company. Display-stand. No. 1,355,849; Oct. 12; v. 279; p. 231.
Nesbit, Arthur F., Wilkinsburg, Pa. Apparatus for rectifying electric currents. No. 1,349,907; Aug. 17; v. 277; p. 471.
Nesbit, Arthur F., Wilkinsburg, Pa., assignor to International Precipitation Company. Apparatus for the electrical precipitation of suspended matter in gaseous and fluid bodies. No. 1,356,462; Oct. 19; v. 279; p. 488.
Nesbit, Arthur F., assignor to International Precipitation Company, Wilkinsburg, Pa. Removing suspended particles from fluid or gaseous bodies. No. 1,357,201; Oct. 26; v. 279; p. 679.
Nesbit, Arthur F., assignor to International Precipitation Company, Wilkinsburg, Pa. Producing electrical precipitation of particles from fluid or gaseous streams. No. 1,357,202; Oct. 26; v. 279; p. 679.
Nesdall, John T., Brooklyn, N. Y. Stair structure. No. 1,343,739; June 15; v. 275; p. 534.
Neski, Chester W., Chicago, Ill. Paper receptacle. No. 1,337,091; Apr. 13; v. 273; p. 324.
Nesmith, Ralph A., assignor of one-third to B. J. Bradner and one-third to A. B. Howard, Los Angeles, Calif. Lock. No. 1,338,150; Apr. 27; v. 273; p. 667.
Nesmith, Warren H., Houston, Tex. Gin or delinting-gin. No. 1,333,334; Mar. 9; v. 272; p. 271.
Ness, Anton P., and M. Siverson, Mercer, N. D. Fence-post. No. 1,361,345; Dec. 7; v. 281; p. 73.
Ness, William, Carryville, Wis. Folding box. No. 1,346,839; July 20; v. 276; p. 419.
Nestler, Emil, Bergenfield, N. J. Retreading rubber tires and product thereof. No. 1,354,992; Oct. 5; v. 279; p. 108.
Nestor Johnson Manufacturing Company. (See Ritter, Charles A., assignor.)
Nestor, Patrick C., Philadelphia, Pa. Thumb-tack. (Reissue.) No. 14,810; Mar. 2; v. 272; p. 134.
Netcott, George A. (See Jochumsen, John, and Netcott.)
Nethercott, Charles J., Salt Lake City, Utah. Composition for waterproofing leather, canvas, and other cloth. No. 1,359,826; Nov. 23; v. 280; p. 664.
Nettenstrom, David, Chicago, Ill. Auxiliary spring for motor-vehicles. No. 1,336,481; Apr. 13; v. 273; p. 206.
Nettle, William E., P. Selby, J. Blyth, and J. H. Holman, Johannesburg, Transvaal, South Africa. Conveying liquid to rock-drilling tools. No. 1,339,858; May 11; v. 274; p. 302.
Nettle, William E., P. Selby, J. Blythe, and J. H. Holman, Johannesburg, Transvaal, South Africa. Reciprocating rock-drill for supplying water to the bore-holes during drilling. No. 1,360,011; Nov. 23; v. 280; p. 701.
Neubauer, Ferdinand, Cleveland, Ohio. Rubber-cushioned heel. No. 1,356,549; Oct. 26; v. 279; p. 552.
Neuberth, Franklin G., assignor to The S. O. & C. Co., Ansonia, Conn. Fastener. No. 1,334,163; Mar. 16; v. 272; p. 488.
Neuberth, George E., Newark, N. J., assignor to Neuberth Products Corporation, New York, N. Y. Machine for making seamless tubing of metal, pulp, or other materials. No. 1,330,489; Feb. 10; v. 271; p. 245.
Neuberth Products Corporation. (See Neuberth, George E., assignor.)
Neukirchen, Peter, assignor to J. H. Wald, Chicago, Ill. Egg-beater. No. 1,327,568; Jan. 6; v. 270; p. 129.
Neuland, Alfons H., Jersey City, N. J. Electric generator. No. 1,331,998; Feb. 24; v. 271; p. 618.
Neuland, Alfons H., San Francisco, Calif. Variable-frequency dynamo-electric machine. No. 1,334,502; Mar. 23; v. 272; p. 598.
Neuland, Alfons H., San Francisco, Calif. Ignition and lighting device. No. 1,338,324; Apr. 27; v. 273; p. 701.
Neuland, Alfons H., San Francisco, Calif. Dynamo-electric machine. No. 1,348,037; July 27; v. 276; p. 713.
Neumaier, John, Dayton, Ohio. Protractor. No. 1,329,005; Jan. 27; v. 270; p. 526.
Neuman, David, Albany, Ga. Hoe with knife attachment. No. 1,328,537; Jan. 20; v. 270; p. 409.
Neumann, George, Chicago, Ill. Embossing-gage. No. 1,349,579; Aug. 17; v. 277; p. 408.
Neumann, R., Hardware Co., The. (See Lotz, William A., assignor.)
Neumann, R., Hardware Co. (See Willringhaus, Gustav, assignor.)
Neumeyer, Horace F., Macungie, Pa. Sprayer for plants. No. 1,348,038; July 27; v. 276; p. 714.
Neuteboom, Boudewijn B., Detroit, Mich. Axle construction. No. 1,331,662; Feb. 24; v. 271; p. 554.
Neuteboom, Boudewijn B., Detroit, Mich., assignor to The Militor Corporation, New York, N. Y. Tank suspension for motor-vehicles. No. 1,347,051; July 20; v. 276; p. 461.
Nevers, Lester, and F. Whitbeck, Grand Rapids, Mich. Boiler-setting. No. 1,327,727; Jan. 13; v. 270; p. 220.
Neville, Herbert C., Waterloo, Iowa. Clutch. (Reissue.) No. 14,806; Feb. 17; v. 271; p. 499.
Ne Ville, Louis G., Toronto, Ontario, Canada. Collapsible wheel for automobiles. No. 1,359,827; Nov. 23; v. 280; p. 664.
Neville, William A., Kewanee, Ill. Floor-laying jack. No. 1,354,332; Sept. 28; v. 278; p. 655.
Nevins, Joseph A. F., and F. A. Sutherland, Millinocket, Me. Machine for handling rolls of paper. No. 1,354,993; Oct. 5; v. 279; p. 108.
New Britain Machine Company, The. (See Harding, Lee L., assignor.)
New Departure Manufacturing Company, The. (See Gearing, Charles M., assignor.)
New Departure Manufacturing Company, The. (See Hughes, Frederick G., assignor.)
New England Enameling Co., The. (See Rieser, Simon, assignor.)
New England Westinghouse Company. (See Pittman, Ernest W., assignor.)
New Era Iron and Steel Corporation. (See Tyrrell, William, assignor.)
New Era Mfg. Company. (See Fanslow, Benjamin O., assignor.)
New Era Spring & Specialty Company. (See Crell, Albert P., assignor.)
New, Frank O. W., Melton Mowbray, Leicester, England. Locking device. No. 1,360,563; Nov. 30; v. 280; p. 877.
New Haven Clock Co. (See Porter, Wilson E., assignor.)
New Idea Spreader Co. (See Synck, H., and Rollman, assignors.)
New Jersey Foundry and Machine Company. (See Hescock, E. N., and Smith, assignors.)
New Jersey Optical Co. (See Durgin, Edgar R., assignor.)
New Jersey Patent Company. (See Aylesworth, J. W., and Aiken, assignors.)
New Jersey Patent Company. (See Brown, Thomas C., assignor.)
New Jersey Patent Company. (See Constable, J. P., Michalis, and McGall, assignors.)
New Jersey Patent Company. (See Constable, John P., assignor.)
New Jersey Patent Company. (See Edison, Thomas A., assignor.) (Reissue.)
New Jersey Patent Company. (See Holland, Newman H., assignor.)
New Jersey Patent Company. (See Main, Fred F., assignor.)
New Jersey Patent Co. (See Mallette, George T., assignor.)
New Jersey Zinc Company, The. (See Breyer, F. G., and Bunce, assignors.)
New Method Book Bindery Inc. (See Sibert, Lawrence D., assignor.)
New Process Metals Corporation. (See De Bats, Jean H. L., assignor.)

Digitized by Google

New Standard Adding Machine Company. (See Huffman, E. E., and Cowgill.)
New Way Machine Company. (See Wright, W. M., Teepies, and Lamb, assignors.)
New York Belting & Packing Company. (See Gilson, Henry R., assignor.)
New York Belting & Packing Company. (See Kent, William J., assignor.)
New York Belting and Packing Company. (See Ostromislensky, Iwan, assignor.)
New York Belting & Packing Company. (See Somerville, Albert A., assignor.)
New York Belting & Packing Company, The. (See Tucker, A. Y., and Congdon, assignors.)
New York Couch Bed Company. (See Sisbower, G. F., and Pittoni, assignors.)
Newark Gear Cutting Machine Co. (See Eberhardt, Henry J. and F. R., assignors.)
Newark Paraffine & Parchment Paper Co. (See Stoner, Winifred S., assignor.)
Newberg, Charles A., and E. I. Weisberger, Brooklyn, N. Y. Conformator. No. 1,328,538; Jan. 20; v. 270; p. 409.
Newbert, Harry R., Chicago, Ill. Fluid-operated tool. No. 1,333,725; Mar. 16; v. 272; p. 406.
Newbery, Edgar. (See Heap, W., and Newberry.)
Newbigin, Henry T., Newcastle-upon-Tyne, England. Lubrication of journal-bearings. No. 1,336,373; Apr. 6; v. 273; p. 126.
Newbold, Fleming, *et al.* (See Manheimer, Louis B., assignor.)
Newbury, Frank D., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Co. Shunt attachment for brushes. No. 1,351,059; Aug. 31; v. 277; p. 803.
Newcomb Carbureter Company. (See Newcomb, Edward C., assignor.)
Newcomb, E. C., Scituate, Mass., and L. L. Scott, assignors to Standard Engineering Company, St. Louis, Mo. Controlling device for electric circuits. No. 1,352,212; Sept. 7; v. 278; p. 95.
Newcomb, Edward C., Scituate, Mass., assignor to Standard Engineering Company, St. Louis, Mo. Exhaust-steam turbine. No. 1,331,999; Feb. 24; v. 271; p. 618.
Newcomb, Edward C., Scituate, Mass., assignor to Standard Engineering Company, St. Louis, Mo. Water-pump. No. 1,336,258; Apr. 6; v. 273; p. 105.
Newcomb, Edward C., North Scituate, Mass. Carbureter. No. 1,339,218; May 4; v. 274; p. 105.
Newcomb, Edward C., North Scituate, Mass., assignor to Newcomb Carbureter Company. Carbureter. No. 1,359,828; Nov. 23; v. 280; p. 664.
Newcomb, J. C., *et al.* (See Gunn, Charles H., assignor.)
Newcomer, Martin, Perth Amboy, assignor to Volotone Company, Elizabeth, N. J. Controlling device for pneumatic piano-players. No. 1,332,187; Feb. 24; v. 271; p. 652.
Newdall, Axel, Minneapolis, N. P. Nelson, and M. Newdall, Springfield, Minn. Sod-disintegrator and quack-grass eradicator. No. 1,341,861; June 1; v. 275; p. 49.
Newdall, Magnus. (See Newdall, A., Nelson, and Newdall.)
Newdick, N. A., and W. E. Moody, Columbus, Ohio, assignors to James E. Jones, Switchback, W. Va. Rail-joint. No. 1,357,584; Nov. 2; v. 280; p. 72.
Newdick, Norton A., Columbus, Ohio. Coal-loading machine. No. 1,353,842; Sept. 28; v. 278; p. 556.
Newdick, Norton A., Columbus, Ohio. Coal-loading machine. No. 1,362,889; Dec. 21; v. 281; p. 476.
Newell, Bird E., Watson, Minn. Solder. No. 1,357,297; Nov. 2; v. 280; p. 19.
Newell, Edgar, Irwin, Pa. Band-saw guide-disk. No. 1,360,564; Nov. 30; v. 280; p. 877.
Newell, George G. (See Crouse, H. M., and Newell.)
Newell, George T., Jr., Beverly, N. J. Electrical preheating attachment for automobile intake-manifolds. No. 1,344,242; June 22; v. 275; p. 696.
Newell, George T., Jr., Beverly, N. J. Electrically-heated automobile hood and radiator cover. No. 1,361,538; Dec. 7; v. 281; p. 112.
Newell, James E. (See Ingram, Sleeper T., assignor.)
Newell, Leland B. (See Sandberg, E. S., and Newell.)
Newell, Samuel, Eddyville, Iowa. Cultivator-beam support. No. 1,332,994; Mar. 9; v. 272; p. 208.
Newell Sanders Plow Company. (See Lundin, Martin, assignor.)
Newhall, Frederick A., New York, N. Y. Lock construction. No. 1,351,117; Aug. 31; v. 277; p. 814.
Newhall, Henry B., Jr., executor. (See Pleister, Henry W., assignor.)
Newham, Frank H., Jr. (See Merceron, Raymond V., assignor.)
Newhope, Alfred, Jacksonville, Fla. Attachment for motor-vehicles. No. 1,329,200; Jan. 27; v. 270; p. 563.
Newhouse, Frank, Denver, Colo. Advertising-frame. No. 1,346,969; July 20; v. 276; p. 445.
Newhouse, Ray C., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. System of hoist control. No. 1,331,780; Feb. 24; v. 271; p. 576.
Newhouse, Ray C., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Portable crusher. No. 1,331,963; Feb. 24; v. 271; p. 611.
Newhouse, Ray C., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Grinding-mill and tumbling comminuting-body therefor. No. 1,331,964; Feb. 24; v. 271; p. 611.
Newhouse, Ray C., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Drier. No. 1,332,137; Feb. 24; v. 271; p. 643.
Newhouse, Ray C., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Process of and apparatus for producing carbon-dioxid gas. No. 1,332,138; Feb. 24; v. 271; p. 643.
Newhouse, Ray C., Wauwatosas, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Comminuting-mill. No. 1,361,280; Dec. 7; v. 281; p. 59.
Newhouse, Ray C., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Comminuting-mill. No. 1,361,281; Dec. 7; v. 281; p. 59.
Newitt, Edward J. D., New York, N. Y., assignor of one-half to Earle F. Watson, Dumont, N. J. Adjustable front sight for guns. No. 1,361,768; Dec. 7; v. 281; p. 158.
Newland, Clarence G., Berlin, Md. Clothes-drying reel. No. 1,362,890; Dec. 21; v. 281; p. 476.
Newlin, Frederick H., Glendale, Calif. Tambourine. No. 1,333,565; Mar. 9; v. 272; p. 315.
Newlon, James B., and C. Backinger, Seattle, Wash. Wrench. No. 1,351,583; Aug. 31; v. 277; p. 907.
Newlon, William D. (See Fultz, Hugh B., assignor.)
Newman, Albert L., Memphis, Tenn. Automatic train-stop. No. 1,349,525; Aug. 10; v. 277; p. 324.
Newman, Alexander M. (See Seelau, Franz, assignor.)
Newman, David J., Buffalo, N. Y. Combination-lock. No. 1,357,720; Nov. 2; v. 280; p. 98.
Newman, Dennis B. (See Hasselgren, A., and Newman.)
Newman, George R. J., Cherrydale, Va. Animal-cage. No. 1,347,397; July 20; v. 276; p. 529.
Newman, I., & Sons. (See Newman, Samuel J., assignor.)
Newman, Joe, assignor of one-half to J. L. Boyd, Dallas, Tex. Cotton-harvester. No. 1,351,398; Aug. 31; v. 277; p. 871.
Newman, John J., Moline,, assignor of one-half to Moline Pressed Steel Company, East Moline, Ill. Hinge. No. 1,354,508; Oct. 5; v. 279; p. 12.
Newman, Otto E. (See Jackson, Oscar, assignor.)
Newman, Samuel J., New Haven, Conn. Corset. No. 1,357,077; Oct. 26; v. 279; p. 656.
Newman, Samuel J., assignor to I. Newman & Sons, New Haven, Conn. Corset. No. 1,356,392; Oct. 19; v. 279; p. 475.
Newman, W. E., and D. K. Stuart, Ogden, Utah. Flume No. 1,353,264; Sept. 21; v. 278; p. 397.
Newman, Walter, Birmingham, Ala. Paint-remover. No. 1,330,387; Feb. 10; v. 271; p. 226.
Newman, William A., Montreal, Quebec, Canada. Locomotive. No. 1,354,679; Oct. 5; v. 279; p. 47.
Newman, William J., Chicago, Ill. Bucket-latch for shovels. No. 1,347,967; July 27; v. 276; p. 699.
Newport News Shipbuilding & Dry Dock Company. (See Gatewood, William, assignor.)
Newsham, Roy V., Seattle, Wash. Self-oiling handle for diestocks. No. 1,336,575; Apr. 13; v. 273; p. 224.
Newsholme, Norman R., Keighley, England. Doffing mechanism for spinning-frames. No. 1,353,414; Sept. 21; v. 278; p. 427.
Newsom, John W., Breckenridge, Tex. Door stop and holder. No. 1,344,647; June 29; v. 275; p. 842.
Newsom, Joseph N., H. E. Harder, and W. F. Leschen, assignors to Newsom Valve Company, St. Louis, Mo. Pneumatic valve. No. 1,353,415; Sept. 21; v. 278; p. 427.
Newsom Valve Company. (See Newsom, J. N. Harder, and Leschen, assignors.)
Newspaper Stuffing Machines Company, The. (See Halvorsen, Severin, assignor.)
Newton, Albert S., Providence R. I. Waste-trap. No. 1,347,550; July 27; v. 276; p. 616.
Newton, Albert S., Providence, R. I. Waste-trap. No. 1,347,551; July 27; v. 276; p. 616.
Newton, Charles, Buffalo, N. Y., assignor to F. N. Stone, Cleveland, Ohio. Projectile. No. 1,328,334; Jan. 20; v. 270; p. 371.
Newton, Charles H., Plainville, Conn. Oil-cup. No. 1,331,663; Feb. 24; v. 271; p. 554.
Newton, Charles H., Plainville, Conn. Anti-sideplay attachment for valve-operating mechanism. No. 1,332,446; Mar. 2; v. 272; p. 52.
Newton, Charles H., Plainville, Conn. Valve-spring compressor. No. 1,346,416; July 13; v. 276; p. 276.
Newton, Dan, assignor of one-half to C. E. Brink, Jamestown, N. Y. Window-platform. No. 1,351,434; Aug. 31; v. 277; p. 878.
Newton, Daniel L., Los Angeles, Calif. Apparatus for determining the amount of gasolene carried in casing-gas. No. 1,330,490; Feb. 10; v. 271; p. 245.
Newton, Daniel L., Fullerton, Calif. Distillation. No. 1,356,878; Oct. 26; v. 279; p. 617.
Newton, Dudley, Berkeley, Calif. Apparatus for flushing urinals. No. 1,328,445; Jan. 20; v. 270; p. 391.
Newton, Edmund, Minneapolis, Minn. Apparatus for separating magnetic material. No. 1,340,457; May 18; v. 274; p. 472.
Newton, Edward C. (See Kresky, Theron J., assignor.)

Digitized by Google

Alphabetical list of patentees—Continued.

Newton, Emmett S., *et al.* (See Kien, Edward I., assignor.)
Newton, Frank J., assignor of one-half to E. E. Wallace, Sandwich, Ill. Shield for headlights. No. 1,344,594; June 22; v. 275; p. 767.
Newton, Frank W., Minneapolis, Minn. Tag-fastener. No. 1,360,433; Nov. 30; v. 280; p. 851.
Newton, Harrie L., assignor of one-eighth to B. Alton, Linden, Wis. Spring-wheel. No. 1,362,891; Dec. 21; v. 281; p. 476.
Newton, J. M. (See Howe, Dale E., assignor.)
Newton, John, San Francisco, Calif. Truck-hoist. No. 1,356,879; Oct. 26; v. 279; p. 617.
Newton Machine Tool Works. (See Muth, George F., assignor.)
Newton, Richard T., Nutley, N. J. Shock-eliminator. No. 1,329,993; Feb. 3; v. 271; p. 121.
Newton, Richard T., New York, N. Y. Bumper. No. 1,343,740; June 15; v. 275; p. 534.
Newton, Richard T., New York, N. Y. Automobile-buffer. No. 1,343,741; June 15; v. 275; p. 534.
Newton, Richard T., New York, N. Y. Bracket. No. 1,346,048; July 6; v. 276; p. 143.
Newton, Richard T., New York, N. Y. Bumper. No. 1,346,667; July 13; v. 276; p. 326.
Newton, Richard T., New York, N. Y. Bumper. No. 1,346,668; July 13; v. 276; p. 326.
Newton, Robert, Okoroire, New Zealand. Rack for draining crockery. No. 1,356,305; Oct. 19; v. 279; p. 459.
Newton, Robert C., Needham Heights, Mass. Fastening device. No. 1,356,880; Oct. 26; v. 279; p. 617.
Newton, Robert W., Providence, R. I. Automatic sprinkler. No. 1,345,217; June 29; v. 275; p. 951.
Newton, Thomas E., Zellwood, Fla. Dumping-wagon attachment for automobiles. No. 1,341,381; May 25; v. 274; p. 720.
Newton, William J., assignor to H. Hubbell, Incorporated, Bridgeport, Conn. Lock-switch. No. 1,333,090; Mar. 9; v. 272; p. 226.
Newton, William J., assignor to H. Hubbell, Incorporated, Bridgeport, Conn. Mechanical movement. No. 1,334,784; Mar. 23; v. 272; p. 651.
Newton, William J., assignor to Harvey Hubbell, Incorporated, Bridgeport, Conn. Electric switch. No. 1,346,553; July 13; v. 276; p. 304.
Newton, William J., assignor to Harvey Hubbell, Incorporated, Bridgeport, Conn. Plural-control magneto and semaphore switch. No. 1,357,585; Nov. 2; v. 280; p. 72.
Newton, William J., assignor to Harvey Hubbell, Incorporated, Bridgeport, Conn. Surface toggle-switch. No. 1,361,170; Dec. 7; v. 281; p. 87.
Newton, William J., Lynbrook, assignor, by mesne assignments, to J. G. Livingston, Woodmere, N. Y. Switch or receptacle box. No. 1,345,502; July 6; v. 276; p. 34.
Newton, William J., Lynbrook, assignor, by mesne assignments, to J. G. Livingston, Woodmere, N. Y. Switch or receptacle box. No. 1,345,503; July 6; v. 276; p. 35.
Ney, V. L., Hay Tool Company, The. (See Nunamaker, Henry S., assignor.)
Neyd'hart, Francis S., West Hoboken, N. J. Jumping toy. No. 1,329,201; Jan. 27; v. 270; p. 563.
Neyland, Boyd G. (See Carpenter, H. F., and Neyland.)
Neyland, William M. (See Passmore, H. J., and Neyland.)
Niagara Alkali Company. (See MacMillan, John R., assignor.)
Niagara Alkali Company. (See Patterson, Thomas A., assignor.)
Niagara Machine & Tool Works. (See Munschauer, Frederick E., assignor.)
Niagara Smelting Corporation. (See Henderson, Clark T., assignor.)
Niantic Sheet Music Company, The. (See Dobson, John S., assignor.)
Nicely, Bayard B., Luttrell, Tenn. Harrow-truck. No. 1,348,039; July 27; v. 276; p. 714.
Nicholas, Edward, Kokomo, Ind. Auto block-signal. No. 1,345,218; June 29; v. 275; p. 951.
Nicholas, Eldridge, Charlestown, R. I. Condiment-container. No. 1,337,789; Apr. 20; v. 273; p. 530.
Nicholas, Francis C., Boston, Mass. Furnace. No. 1,350,233; Aug. 17; v. 277; p. 534.
Nicholas Power Company. (See Morton, Woolridge B., assignor.)
Nicholas Power Company. (See Power, Nicholas, assignor.)
Nicholas Power Company. (See Skerrett, John F., assignor.)
Nicholas Power Company. (See Uhlemann, Theodore F., assignor.)
Nicholas, Willard S., Shelton, Conn. Bolt-holder. No. 1,335,386; Mar. 30; v. 272; p. 824.
Nicholas, William, New York, and W. Ackerman, Larchmont, N. Y., assignors, by mesne assignments, to United States Graphotype Company. Type justifying and composing machine. No. 1,361,334; Dec. 7; v. 281; p. 113.
Nicholas, William F., Chicago, Ill. Etching-machine. No. 1,345,219; June 29; v. 275; p. 951.
Nicholas, William H., Pittsburgh, Pa. Game. No. 1,357,109; Oct. 26; v. 279; p. 662.
Nicholls, Albert E., Wilson Creek, Wash. Oil-feeder. No. 1,346,840; July 20; v. 276; p. 419.
Nicholls, Harry J., Minneapolis, Minn. Soap-making apparatus. No. 1,339,126; May 4; v. 274; p. 90.
Nichols, Aaron S., New York, N. Y. Spraying apparatus. No. 1,361,607; Dec. 7; v. 281; p. 127.
Nichols, Andrew P., Bridgeport, Conn. Electrically-operated air-heating device. No. 1,333,933; Mar. 16; v. 272; p. 444.
Nichols, Arthur L., assignor of one-half to E. B. Meissner, St. Louis, Mo. Boat. No. 1,335,072; Mar. 30; v. 272; p. 766.
Nichols, Arthur M., Auburn, Victoria, Australia. Machine for labeling cylindrical tins and the like. No. 1,355,563; Oct. 12; v. 279; p. 272.
Nichols, Carl, Winchester, Idaho. Seed-remover. No. 1,356,997; Oct. 26; v. 279; p. 640.
Nichols, Frank L., Stamford, Conn. Apparatus for dehydrating food products. No. 1,351,118; Aug. 31; v. 277; p. 814.
Nichols, George R., Jr., deceased, Chicago, Ill.; The Peoples Trust and Savings Bank, Chicago, administrator. Steering and control mechanism for tractors and the like. No. 1,353,606; Sept. 21; v. 278; p. 466.
Nichols, Harold W., *et al.* (See Salsman, James E., assignor.)
Nichols, Henry T., and C. R. Freede, Spokane, Wash. Cleaning and polishing composition. No. 1,362,260; Dec. 14; v. 281; p. 305.
Nichols, Howard M., Swarthmore, assignor to The Atlantic Refining Company, Philadelphia, Pa. Extracting wax. No. 1,356,550; Oct. 26; v. 279; p. 552.
Nichols, Howard M., Swarthmore, assignor to The Atlantic Refining Company, Philadelphia, Pa. Method of and apparatus for forming wax cakes. No. 1,361,346; Dec. 7; v. 281; p. 78.
Nichols, Horace E., Baltimore, Md. Method of and apparatus for connecting metallic and non-metallic conductors. No. 1,358,648; Nov. 9; v. 280; p. 343.
Nichols, James C., and E. Ryder, Berwyn, Ill. Shock-absorber. No. 1,334,390; Mar. 23; v. 272; p. 577.
Nichols, James S., Atlanta, Ga. Superheater. No. 1,340,074; May 11; v. 274; p. 342.
Nichols, John E., Edmonton, Alberta, Canada. Automobile-signal. No. 1,360,141; Nov. 23; v. 280; p. 727.
Nichols, John W., Los Angeles, Calif. Headlight. No. 1,332,139; Feb. 24; v. 271; p. 644.
Nichols, Joseph R., Seattle, Wash. Locking mechanism for motor-vehicles. No. 1,359,729; Nov. 23; v. 280; p. 644.
Nichols, Oliver, Mound Valley, Kans. Tire and tube vulcaniser. No. 1,349,688; Aug. 17; v. 277; p. 429.
Nichols, Philip J. (See Clifford, R. W., and Nichols.)
Nichols, Samuel R., Madison, Wis. Animal-tag. No. 1,347,868; July 27; v. 276; p. 680.
Nichols, Samuel R., Shelton, Nebr. Riveting-tool. No. 1,348,040; July 27; v. 276; p. 714.
Nichols, Wesley G., Chicago Heights, assignor to American Manganese Steel Company, Chicago, Ill. Producing digging-teeth. No. 1,336,576; Apr. 13; v. 273; p. 224.
Nichols, Wesley G., assignor to American Manganese Steel Company, Chicago, Ill. Making manganese steel. No. 1,356,551; Oct. 26; v. 279; p. 553.
Nichols, Wesley G., Chicago Heights, assignor to American Manganese Steel Company, Chicago, Ill. Making manganese steel. No. 1,359,268; Nov. 16; v. 280; p. 507.
Nichols, William H., Pittsburgh, Pa. Chill-mold. No. 1,336,259; Apr. 6; v. 273; p. 105.
Nichols, William H., Pittsburgh, Pa. Chill-mold. No. 1,336,260; Apr. 6; v. 273; p. 105.
Nicholson, Arthur D., *et al.* (See Nicholson, Howard M., assignor.)
Nicholson, Arthur D. (See Nicholson, Howard M., G. B., and A. D.)
Nicholson, Eberhardt P., Brooklyn, assignor of one-half to C. Roth, New York, N. Y. Spark-plug. No. 1,363,904; Dec. 28; v. 281; p. 713.
Nicholson, Frank H. (See Morrison, C. H., and Nicholson.)
Nicholson, Frank H., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. No. 1,342,644; June 8; v. 275; p. 253.
Nicholson, Frank H., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic controlling apparatus. No. 1,356,552; Oct. 26; v. 279; p. 553.
Nicholson, Frank T., Cambridge, Mass., and J. M. Nicholson, New York, N. Y., assignors to Westinghouse Electric & Manufacturing Company. Ash-discharge mechanism. No. 1,348,659; Aug. 3; v. 277; p. 103.
Nicholson, Fred C., Chattanooga, Tenn., assignor to Scott and Williams, Incorporated, Boston, Mass. Yarn-feeding means for knitting-machines. No. 1,346,049; July 6; v. 276; p. 143.
Nicholson, Fred T., Bloomfield, N. J. Making paper receptacles. No. 1,330,334; Feb. 10; v. 271; p. 216.
Nicholson, George B., *et al.* (See Nicholson, Howard M., assignor.)
Nicholson, George B. (See Nicholson and Lowery.)

Digitized by Google

Alphabetical list of patentees—Continued.

Nicholson, George B. (See Nicholson, Howard M., G. B., and A. D.)
Nicholson, George F., and G. Whitestone, Seattle, Wash. Portable freight-stacking elevator. No. 1,340,458; May 18; v. 274; p. 472.
Nicholson, Herbert, Chicago, Ill. Pneumatic tire. No. 1,328,054; Jan. 13; v. 270; p. 281.
Nicholson, Howard M., A. D. Nicholson, G. B. Nicholson, and W. T. Lowery, Pittsburgh, Pa. Vacuum dispensing apparatus. No. 1,327,112; Jan. 6; v. 270; p. 44.
Nicholson, Howard M., G. B., and A. D., Pittsburgh, Pa. Dispensing apparatus. No. 1,348,890; Aug. 10; v. 277; p. 199.
Nicholson, Howard M., assignor of one-fourth to G. B. Nicholson, one-fourth to A. D. Nicholson, and one-fourth to W. T. Lowery, Pittsburgh, Pa. Automatic dispensing apparatus. No. 1,327,111; Jan. 6; v. 270; p. 44.
Nicholson, John C. (See Beattie, Charles W., assignor.)
Nicholson, John L., assignor to Locomotive Firebox Company, Chicago, Ill. Locomotive-boiler. No. 1,337,720; Apr. 20; v. 273; p. 517.
Nicholson, John L., assignor, by mesne assignments, to Locomotive Firebox Company, Chicago, Ill. Water-circulating tube. No. 1,356,307; Oct. 19; v. 279; p. 459.
Nicholson, John M. (See Nicholson, Frank T. and J. M.)
Nicholson, John S. M., Durham, England. Gage for bevels, miters, and the like. No. 1,346,050; July 6; v. 276; p. 143.
Nicholson, John W., Pasadena, Calif., and C. Fowler, Tompkins Cove, N. Y.; said Fowler assignor to said Nicholson. Weed-destroyer and ground-sterilizer. No. 1,337,562; Apr. 20; v. 273; p. 486.
Nicht, Alexander J., Jr., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Hoist control. No. 1,340,240; May 18; v. 274; p. 431.
Nicht, Alexander J., Jr., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Liquid rheostat. No. 1,340,241; May 18; v. 274; p. 432.
Nickel, Fredrick, New York, N. Y., assignor to Springmeyer, Pattberg & Co., Hoboken, N. J. Purse, Handbags, or the like. No. 1,354,206; Sept. 28; v. 278; p. 630.
Nickels, Eckhart L., Rochester, Minn. Combined bathtub and dresser for babies. No. 1,338,034; Apr. 27; v. 273; p. 646.
Nickerson, Carrie W., Los Angeles, Calif. Automobile-lock. No. 1,336,650; Apr. 13; v. 273; p. 238.
Nickerson, Frederick M., Everett, assignor to The Phonoharp Company, East Boston, Mass. Playing attachment for zithers. No. 1,352,618; Sept. 14; v. 278; p. 210.
Nickerson, Oris H., assignor to The Adapti Company, Cleveland, Ohio. Outlet-box connection. No. 1,358,774; Nov. 16; v. 280; p. 413.
Nickerson, William E., Cambridge, assignor to Gillette Safety Razor Company, Boston, Mass. Work supporting and feeding mechanism. No. 1,333,589; Mar. 9; v. 272; p. 820.
Nickle, Clarence L., Knoxville, Tenn. Tongs. No. 1,330,648; Feb. 10; v. 271; p. 275.
Nickle, Frank H., St. Louis, Mo. Furnace-setting. No. 1,329,470; Feb. 3; v. 271; p. 24.
Nickol, Alphonse M., and C. T. Schein, Batesville, Ind. Hinge. No. 1,329,059; Jan. 27; v. 270; p. 536.
Nickol, Frederick C., and C. H. Knowles, assignors to City Machine and Tool Works, a copartnership consisting of F. C. Nickol and O. M. Poock, Dayton, Ohio. Machine for forming armature-coils. No. 1,337,463; Apr. 20; v. 273; p. 467.
Nicks, John H., San Saba, Tex. Twine-holder. No. 1,348,439; Aug. 3; v. 277; p. 61.
Nickum, Carl, Zion, Ill. Tire-repair tool. No. 1,363,163; Dec. 21; v. 281; p. 529.
Nicol, David S., assignor to Shawinigan Electro-Metals Company, Limited, Montreal, Quebec, Canada. Manufacture of magnesium powder. No. 1,351,865; Sept. 7; v. 278; p. 31.
Nicol, David S., Montreal, Quebec, Canada, assignor, by mesne assignments, to American Magnesium Corporation, Niagara Falls, N. Y. Apparatus for the manufacture of magnesium powder. No. 1,356,780; Oct. 26; v. 279; p. 597.
Nicolaus, Frederic G., and J. Roy, Cleveland, Ohio, assignors to American Stove Company, St. Louis, Mo. Combined gas and coal range. No. 1,363,905; Dec. 28; v. 281; p. 713.
Nicolaysen, Ragnvald M., Detroit, Mich. Machine for grinding cutters, reamers, and like tools. No. 1,336,533; Apr. 13; v. 273; p. 216.
Nicolétis, Minos, Paris, France. Apparatus for regulating the strength of electric currents for medical purposes. No. 1,338,952; May 4; v. 274; p. 56.
Nicoletti, John. (See Love, A. F., and Nicoletti.)
Nicolle, John P., Montreal, Quebec, Canada. Cleat for barrels. No. 1,338,522; Apr. 27; v. 273; p. 738.
Nicols, William L., Tuscumbia, Ala. Toy cannon. No. 1,352,681; Sept. 14; v. 278; p. 223.
Nicosia, Vincent, Waco, Tex. Hair-clipper. No. 1,351,924; Sept. 7; v. 278; p. 43.
Nida, Elmer E., Millfield, Ohio. Coal-cager. No. 1,355,414; Oct. 12; v. 279; p. 243.
Niebergall, Arthur G., *et al.* (See Bowen, Charles, assignor.)
Niebling, Frederick C., Southington, Conn. Square and bevel structure. No. 1,349,087; Aug. 10; v. 277; p. 237.
Niece, Fred G., Cleveland, and R. M. Leggett, Akron, Ohio. Apparatus for subjecting substances or molecular matter to the electrostatic stress of a high-tension electric discharge. No. 1,334,962; Mar. 30; v. 272; p. 745.
Nied, Edward H., Akron, Ohio. Lock. No. 1,328,186; Jan. 13; v. 270; p. 306.
Niedbala, Gregory, Elkhart, Ind. Aeroplane-fuselage. No. 1,349,526; Aug. 10; v. 277; p. 325.
Niederberger, Alois, Argyle, Wis. Mixing-machine. No. 1,350,171; Aug. 17; v. 277; p. 522.
Niehuus, Richard H., *et al.* (See Shearer, John A., assignor.)
Nield, Arthur. (See Butterfield, A. W. and S., and Nield.)
Nield, William H., Stockport, assignor of one-half to W. Melland, Manchester, England. Furnace. No. 1,339,859; May 11; v. 274; p. 302.
Nielsen, Aagot M., Boston, Mass. Laundry-tub. No. 1,340,852; May 18; v. 274; p. 546.
Nielsen, Albert E., Chicago, Ill. Treating waste gases or vapors from soda-cellulose factories. No. 1,345,220; June 29; v. 275; p. 951.
Nielsen, Alfred, Copenhagen, Denmark. Recuperator and block for building the same. No. 1,329,471; Feb. 3; v. 271; p. 24.
Nielsen, Axel S., and J. W. Thompson, San Francisco, Calif. Crank for combustion-engines. No. 1,359,829; Nov. 23; v. 280; p. 664.
Nielsen, Carl, and O. Helleland, assignors to A/S Stordö Kisgruber, Lillebö Gruber, Norway. Discharging device for the heaviest ore or rock in ore-separating machines or so-called jigs. No. 1,361,171; Dec. 7; v. 281; p. 38.
Nielsen, Jacob K., Oak Park, Ill Greenhouse-bench. No. 1,360,669; Nov. 30; v. 280; p. 898.
Nielsen, Niels P. (See Kofoed, A. P., and Nielsen.)
Nielsen, Oscar C., Chicago, Ill. Display-card. No. 1,359,617; Nov. 23; v. 280; p. 622.
Nielsen, Reidar, and V. M. Goldschmidt, assignors to Titan Co. A/S., Christiania, Norway. Producing pigments. No. 1,343,468; June 15; v. 275; p. 479.
Nielsen, Reidar, and V. M. Goldschmidt, assignors, by mesne assignments, to Titan Co. A/S., Christiania, Norway. Titanium products and producing same from precipitated titanium hydrates. No. 1,343,469; June 15; v. 275; p. 479.
Nielsen, Sören. (See Stroyberg, C. B., Nielsen, and Elmer.)
Nieman, Henry W., New York, N. Y. Calculator. No. 1,330,132; Feb. 10; v. 271; p. 179.
Niemann, Frederick A., Chicago, Ill., assignor, by mesne assignments, to Felt & Tarrant Manufacturing Company. Printing cut-out for adding-machines. No. 1,333,277; Mar. 9; v. 272; p. 260.
Niemczura, Aloysius, Amsterdam, N. Y. Calendar-clock. No. 1,336,150; Apr. 6; v. 273; p. 84.
Niemeyer, Carl F., Chicago, Ill. Bracket. No. 1,333,934; Mar. 16; v. 272; p. 445.
Niemeyer, Henry C., Philadelphia, Pa., assignor to Richmond Radiator Company, New York, N. Y. Separator for vacuum systems. No. 1,355,617; Oct. 12; v. 279; p. 283.
Niemeyer, William H., Baltimore county, Md. Stamp-rack. No. 1,361,535; Dec. 7; v. 281; p. 113.
Niemeyer, William H., Baltimore county, Md. Stamp-rack. No. 1,361,536; Dec. 7; v. 281; p. 113.
Niemeyer, William H., Owings Mills, Md. Stamp-rack. No. 1,361,537; Dec. 7; v. 281; p. 113.
Niemeyer, William H., Baltimore county, Md. Stamp-rack. No. 1,361,538; Dec. 7; v. 281; p. 113.
Niemeyer, William H., Baltimore county, Md. Stamp-rack. No. 1,361,539; Dec. 7; v. 281; p. 114.
Niemeyer, William H., Owings Mills, Md. Stamp-rack. No. 1,361,540; Dec. 7; v. 281; p. 114.
Niemi, Kristiina, Alston, Mich. Child's vehicle. No. 1,357,110; Oct. 26; v. 279; p. 662.
Nienaber, Louis F., assignor to Lambert Tire & Rubber Co., Incorporated, Akron, Ohio. Means for fastening cushion-tires to rims. No. 1,355,771; Oct. 12; v. 279; p. 312.
Nierodka, Jan, Detroit, Mich. Combination trunk and table. No. 1,350,834; Aug. 24; v. 277; p. 698.
Nierodka, John, Detroit, Mich. Cigarette-box. No. 1,361,893; Dec. 14; v. 281; p. 229.
Nieukirk, John W., Gary, Ind. Aeroplane-shell. No. 1,344,558; June 22; v. 275; p. 760.
Niewaleski, Viktor, Brooklyn, N. Y. Game. No. 1,343,838; June 15; v. 275; p. 554.
Niewiarowski, Peter, assignor of one-half to John Dombrowski, Omaha, Nebr. Rail-joint. No. 1,362,957; Dec. 21; v. 281; p. 488.
Niewiarowski, Piotr, Omaha, Nebr. Signal device for vehicles. No. 1,353,359; Sept. 21; v. 278; p. 416.
Nigg, Louis, Keystone, Iowa. Hog-ring. No. 1,361,541; Dec. 7; v. 281; p. 114.
Nighbor, Nellie. (See Wietecha, Joseph, assignor.)

Digitized by Google

Nighswander, George O., Kansas, Ohio. Spark-plug. No. 1,361,347; Dec. 7; v. 281; p. 74.
Nighswonger, Lydias Z. (See Arnold, W. E., and Nighswonger.)
Nightingale, Henry H., Greensburg, Kans. Extension-feeder. No. 1,356,733; Oct. 26; v. 279; p. 588.
Nikander, August, Detroit, Mich. Wrench. No. 1,340,287; May 18; v. 274; p. 439.
Nikander, August, Detroit, Mich. Fire-escape. No. 1,341,242; May 25; v. 274; p. 693.
Nikodym, Adolph. (See Burrows, Charles H., assignor.)
Nikonow, John P. New York, N. Y. Sounding signaling device. No. 1,342,863; June 8; v. 275; p. 298.
Nikonow, John P., New York, N. Y. Electric sadiron. No. 1,342,864; June 8; v. 275; p. 290.
Nika, Nickolas J., Kalamazoo, Mich. Paper-making machine. No. 1,327,289; Jan. 6; v. 270; p. 76.
Niland, Andrew, assignor of one-third to M. A. Ek and one-third to A. H. Findley, Bremerton, Wash. Hair-clipping attachment for vibrators. No. 1,329,675; Feb. 3; v. 271; p. 61.
Niles-Bement-Pond Company. (See Blood, Harold L., assignor.)
Niles-Bement-Pond Company. (See Boughen, Malachi F., assignor.)
Niles-Bement-Pond Company. (See Greenleaf, George E., assignor.)
Niles-Bement-Pond Company. (See Johnson, Sven P., assignor.)
Niles-Bement-Pond Company. (See Pyle, Lewis M., assignor.)
Niles-Bement-Pond Company. (See Sears, Willard T., assignor.)
Niles-Bement-Pond Company. (See Southwick, Frank, assignor.)
Niles, Charles E., Fargo, N. D. Clothes-reel. No. 1,340,494; May 18; v. 274; p. 479.
Niles, Harry F., Chicago, Ill., assignor of one-third to E. A. Schlick, Cook county, Ill. Valve. No. 1,338,838; May 4; v. 274; p. 35.
Niles, Irving F., Lakewood, Ohio, assignor to The Harris Automatic Press Company, Cleveland, Ohio. Printing-press. No. 1,355,844; Oct. 19; v. 279; p. 362.
Niles, Waldo E., North Abington, Mass. Tire-protector. No. 1,328,539; Jan. 20; v. 270; p. 410.
Nill, Conrad J., assignor to E. R. Behrend, Erie, Pa. Press mechanism. No. 1,333,671; Mar. 16; v. 272; p. 396.
Nilson, Andrew, assignor to The Eureka Smokeless Furnace Company, Chicago, Ill. Baffle-wall. No. 1,363,005; Dec. 21; v. 281; p. 498.
Nilson, Harold. (See Nilson, Leonard and H.)
Nilson, Herbert J. (See Wheeler, H. H., and Nilson.
Nilson, John L., and J. Prince, Chicago, Ill. Multiple-spark plug. No. 1,327,057; Jan. 6; v. 270; p. 34.
Nilson, John L., and J. Prince, Chicago, Ill. Vehicle-windshield. No. 1,349,430; Aug. 10; v. 277; p. 305.
Nilson, Lars G., Hoboken, N. J. Process and apparatus for treating metallic articles. No. 1,335,453; Mar. 30; v. 272; p. 837.
Nilson, Leonard. (See Nilson, Nils and L.)
Nilson, Leonard and H., Wayzata, Minn. Gear transmission. No. 1,363,906; Dec. 28; v. 281; p. 713.
Nilson, Nils and L., Wayzata, Minn. Tractor. No. 1,328,335; Jan. 20; v. 270; p. 371.
Nilson, Nils W., Walpole, Mass. Shuttle. No. 1,350,172; Aug. 17; v. 277; p. 522.
Nilson, Sven, Waterbury, Conn. Rope-clamp. No. 1,336,482; Apr. 13; v. 273; p. 206.
Nilsson, Anton L. V., Tularosa, N. Mex. Plastic composition. No. 1,344,058; June 22; v. 275; p. 662.
Nilsson, Hjalmar, Hammond, Ind. Shearing machinery. No. 1,334,391; Mar. 23; v. 272; p. 577.
Nimmo, Jesse C. (See Nimmo, W. B., and Swaim, assignors.)
Nimmo, William B., Santa Ana, and C. S. Swaim, Long Beach; said Swaim assignor to J. C. Nimmo, Los Angeles, Calif. Automobile-lock. No. 1,341,925; June 1; v. 275; p. 61.
Nimz, William E. (See Rumpf, M., and Nimz.)
Nirdlinger, Patrick A., Chicago, Ill. Reflector. No. 1,363,261; Dec. 28; v. 281; p. 589.
Nirider, Fred C., Loogootee, Ill. Distributing-machine. No. 1,333,818; Mar. 16; v. 272; p. 423.
Nisbet, Theodore B., Irvington, N. Y. Windshield for automobiles. (Reissue.) No. 14,872; June 1; v. 275; p. 156.
Nishi, Nagakata and N., Berkeley, Calif. Thermal circuit-controller. No. 1,348,514; Aug. 3; v. 277; p. 74.
Nishi, Nakasumi. (See Nishi, Nagakata and N.)
Nishigawa, Toranoske, Tokyo, Japan. Manufacturing soda. No. 1,359,097; Nov. 16; v. 280; p. 475.
Nishimura, Heijiro. (See Honda, Tomatake, assignor.)
Nishimura, Shinzo, Wapato, Wash. Railway-switch-stand lock. No. 1,331,719; Feb. 24; v. 271; p. 565.
Nissen, Eugene F., Alameda, Calif. Safety-container. No. 1,340,553; May 18; v. 274; p. 490.
Nissen, Eugene F., Alameda, Calif. Envelop. No. 1,340,554; May 18; v. 274; p. 491.
Nissen, Eugene F., Alameda, Calif. Safety-container. No. 1,340,555; May 18; v. 274; p. 491.
Nissen, Louis H., *et al.* (See Procunier, Frank R., assignor.)
Nissen, Peter N., London, England. Joint for use in corrugated metal construction. No. 1,351,435; Aug. 31; v. 277; p. 878.
Nissinen, Toimi A., Yonkers, N. Y. Engraving-machine. No. 1,362,261; Dec. 14; v. 281; p. 303.
Nitaka, Albert, Milwaukee, Wis. Piston. No. 1,345,221; June 29; v. 275; p. 951.
Nitch, Rudolf, Cleveland, Ohio. Drier for printing-presses. No. 1,360,012; Nov. 23; v. 280; p. 701.
Nitrogen Corporation, The. (See Clancy, John C., assignor.)
Nitrogen Corporation. (See Gerfin, G. P., and Mauran, assignors.)
Nitrogen Corporation, The. (See Nagalvoort, Adriaan, assignor.)
Nitrogen Products Company. (See Hidden, Charles P., assignor.)
Nitrogen Products Company. (See Mount, William D., assignor.)
Nitrogen Products Company. (See Williams, Roger, assignor.)
Nitsch, Charles H. (See Weightman, W. A., and Nitsch.)
Nitzgen, Joseph, New York, N. Y. Molding apparatus. No. 1,328,887; Jan. 27; v. 270; p. 504.
Niva, William J., Minneapolis, Minn. Barn-door hinge. No. 1,328,588; Jan. 20; v. 270; p. 418.
Niver, Raymond W., Elmira, N. Y., assignor to The Owens Bottle Machine Company, Toledo, Ohio. Means for conveying ware to leers. No. 1,356,167; Oct. 19; v. 279; p. 431.
Nix, Albert, and F. I., Chester, England. Hair-waver. No. 1,363,611; Dec. 28; v. 281; p. 656.
Nix, Allen B., near Howard, Kans. Spring-tire for vehicle-wheels. No. 1,341,576; May 25; v. 274; p. 758.
Nix, Frederick I. (See Nix, Albert and F. I.)
Nix, Neely, Velie, Ark. Railway-spike. No. 1,356,781; Oct. 26; v. 279; p. 598.
Nixon, Blanche H., administratrix. (See Nixon, Thomas.)
Nixon, Charles W., New Orleans, La. Lock for automobiles. No. 1,348,891; Aug. 10; v. 277; p. 199.
Nixon, George C., Detroit, Mich. Cementing. No. 1,333,768; Mar. 16; v. 272; p. 414.
Nixon, Jeddy D., assignor of one-half to H. F. Smith, Houston, Tex. Pipe-wrench. No. 1,338,461; Apr. 27; v. 273; p. 726.
Nixon, Moses C., Chicago, Ill. Bed or attachment therefor. No. 1,348,820; Aug. 3; v. 277; p. 132.
Nixon, Thomas, deceased, Santa Barbara, Calif.; B. H. Nixon, administratrix. Casement-window. No. 1,331,821; Feb. 24; v. 271; p. 584.
Nobbs, Cornelius G. and W. W., London, England. Electrical heating and cooking apparatus. No. 1,345,222; June 29; v. 275; p. 952.
Nobbs, Walter W. (See Nobbs, Cornelius G. and W. W.)
Nobel's Explosives Company. (See Nathan F. L., Rintoul, and Baker, assignors.)
Nobel's Explosives Company. (See Rintoul, W., and Nolan, assignors.)
Noble, Donald, assignor to The Singer Manufacturing Company, Bridgeport, Conn. Sewing-machine. No. 1,351,866; Sept. 7; v. 278; p. 31.
Noble, F. H., & Company. (See Shields, John M., assignor.)
Noble, Irvine M., and W. E. Gossling, Indianapolis, Ind., assignors to The Prest-O-Lite Company, Inc. Storage battery. No. 1,350,561; Aug. 24; v. 277; p. 645.
Noble, James A., Rochester N. Y. Preparation of adhesive surfaces. No. 1,361,894; Dec. 14; v. 281; p. 229.
Noble, John D., Poughkeepsie, N. Y. Display device. No. 1,361,769; Dec. 7; v. 281; p. 158.
Noble, Stuart L., Columbus, Ohio. Internal-combustion rotary engine. No. 1,329,625; Feb. 3; v. 271; p. 52.
Nobles, Blount T., Winterville, N. C. Fertilizer-distributer. No. 1,345,390; July 6; v. 276; p. 13.
Noe, George W., Clinton, Mo. Spark-plug. No. 1,356,782; Oct. 26; v. 279; p. 598.
Noe, William R., & Sons. (See Glanding, Tristram, assignor.)
Noelting, William H., assignor to Faultless Caster Company, Evansville, Ind. Socket for caster. No. 1,346,239; July 13; v. 276; p. 241.
Noelting, William H., assignor to Faultless Caster Company, Evansville, Ind. Caster. No. 1,346,240; July 13; v. 276; p. 241.
Noelting, William H., assignor to Faultless Caster Company, Evansville, Ind. Caster. No. 1,349,088; Aug. 10; v. 277; p. 237.
Noennig, Ernest T., Wittenberg, Mo. Extension-table. No. 1,349,471; Aug. 10; v. 277; p. 313.
Noerther, Charles, & Cie. (See Nörther, Charles, assignor.)
Noess, Will, Ellendale, N. D. Chain-protector. No. 1,350,234; Aug. 17; v. 277; p. 534.
Nofsger, Fred N. (See George, W. C., and Nofsger.)
Nogar, August, Reading, Pa. Garment. No. 1,345,223; June 29; v. 275; p. 952.
Nogrady, Andor T., assignor to The Nogrady Differential Company, Wichita, Kans. Differential gearing. No. 1,361,895; Dec. 14; v. 281; p. 229.
Nogrady Differential Company, The. (See Nogrady, Andor T., assignor.)

Digitized by Google

Noir, Marin, North Fayette township, Allegheny county, Pa. Rail-joint mechanism. No. 1,336,483; Apr. 13; v. 273; p. 206.
Nolan, Edmund, Detroit, Mich. Grease-cup. No. 1,353,607; Sept. 21; v. 278; p. 486.
Nolan, Francis A., St. Paul, Minn. Phonograph-stop. No. 1,335,911; Apr. 6; v. 273; p. 39.
Nolan, James A., Bowerston, Ohio. Mine-car cager. No. 1,337,944; Apr. 20; v. 273; p. 560.
Nolan, James A., Bowerston, Ohio. Mine-car cager. No. 1,337,945; Apr. 20; v. 273; p. 560.
Nolan, James A., Bowerston, Ohio. Mine-car cager. No. 1,362,958; Dec. 21; v. 281; p. 489.
Nolan, James A., assignor to The Mining Safety Device Company, Bowerston, Ohio. Safety device for mines. No. 1,337,943; Apr. 20; v. 273; p. 559.
Nolan, James C., Vienna, Ohio. Paint. No. 1,358,870; Nov. 16; v. 280; p. 433.
Nolan, Thaddeus A., Cincinnati, Ohio. Illuminated sign. No. 1,330,604; Feb. 10; v. 271; p. 266.
Nolan, Thomas J., (See Rintoul, W., and Nolan.)
Nolan, William E., Tulsa, Okla. Sealing the walls of oil-wells. No. 1,361,282; Dec. 7; v. 281; p. 60.
Nold, John H., assignor to United States Gypsum Company, Chicago, Ill. Means for crating plaster-board and the like. No. 1,354,509; Oct. 5; v. 279; p. 12.
Nolda, Conrad, Hastings, Nebr. Air-pump. No. 1,332,995; Mar. 9; v. 272; p. 208.
Nolde & Horst Co., The. (See Robinson, Frank W., assignor.)
Nolen, Dixon A. (See Jones, Aaron G., assignor.)
Nolen, Robert R., Dallas, Tex. Mill. No. 1,349,221; Aug. 10; v. 277; p. 264.
Nolte, Carl P., New York, N. Y. Packing. No. 1,356,393; Oct. 19; v. 279; p. 475.
Nolte, George V., and J. E. Smith, Bellingham, Wash. Ignition-plug. No. 1,330,335; Feb. 10; v. 271; p. 216.
Non Skid Company of America. (See Bailey, William F. A., assignor.)
Nonnast, Hermann, and W. Tesar, Chicago, Ill. Extensible table. No. 1,333,035; Mar. 9; v. 272; p. 215.
Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Diestock. No. 1,338,863; May 4; v. 274; p. 39.
Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Diestock. No. 1,338,864; May 4; v. 274; p. 39.
Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Diestock. No. 1,338,865; May 4; v. 274; p. 40.
Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Diestock. No. 1,339,473; May 11; v. 274; p. 220.
Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Pipe-wrench. No. 1,340,622; May 18; v. 274; p. 504.
Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Diestock. No. 1,340,972; May 25; v. 274; p. 641.
Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Pipe and tube saw. No. 1,344,428; June 22; v. 275; p. 734.
Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Centering device for pipe-working tools. No. 1,355,248; Oct. 12; v. 279; p. 211.
Nonnenmann, Adolf, New York, N. Y. Comb. No. 1,342,224; June 1; v. 275; p. 121.
Nonsuch, Sciota A., Philadelphia, Pa. Crank-pin-refinishing tool. No. 1,341,577; May 25; v. 274; p. 758.
Noonan, Albert S., assignor to Foss-Hughes Company, Philadelphia, Pa. Door-operating mechanism. No. 1,328,584; Jan. 20; v. 270; p. 418.
Nopp, Thomas J., Charleston, Wash. Scraper. No. 1,362,031; Dec. 14; v. 281; p. 257.
Norall, Carl A., Ajo, Ariz. Automatic fuel-saver. No. 1,353,664; Sept. 21; v. 278; p. 478.
Norberg, Thor, Rock Island, Ill. Display-case. No. 1,356,216; Oct. 19; v. 279; p. 441.
Norcross, Collen E., West Chester, Pa. Method of and apparatus for emulsification. No. 1,338,996; May 4; v. 274; p. 64.
Norcross, Collen E., West Chester, Pa. Method and apparatus for emulsification. No. 1,362,131; Dec. 14; v. 281; p. 277.
Norcross, Walter E., Dorchester, assignor to L. C. Chase & Company, Boston, Mass. Radiator and hood cover for automobiles. No. 1,338,693; May 4; v. 274; p. 8.
Norcross, William C., assignor to American Molding Machine Company, Terre Haute, Ind. Rock-over molding-machine. No. 1,361,172; Dec. 7; v. 281; p. 38.
Nordberg, Bruno V., Milwaukee, Wis. Pump for supplying fuel to internal-combustion engines. No. 1,333,566; Mar. 9; v. 272; p. 315.
Nordberg, Bruno V. E., Milwaukee, Wis. Internal-combustion engine. No. 1,362,815; Dec. 21; v. 281; p. 462.
Nordberg, Carl V., Butte, Mont. Clutch. No. 1,338,788; May 4; v. 274; p. 26.
Nordeen, Herman, Harcourt, Iowa. Combination-hitch for harvesting-machines and wagons. No. 1,357,721; Nov. 2; v. 280; p. 99.
Nordell, Carl, Gilbertville, Mass. Bobbin and spindle connector. No. 1,343,839; June 15; v. 275; p. 554.
Nordell, John P., New York, N. Y. Towing mines. No. 1,341,578; May 25; v. 274; p. 758.
Norden, Carl A., Chicago, Ill. Apparatus for pressing trousers. No. 1,335,013; Mar. 30; v. 272; p. 755.
Norden, Svan, Cranston, R. I. Machine for tipping shoelaces. No. 1,348,660; Aug. 3; v. 277; p. 103.
Nordenberg, Sigfred and S. Donner, Jennings, Mich. Sugar-beet blocker. No. 1,346,832; July 13; v. 276; p. 261.
Nordenswan, Robert, New York, N. Y., and R. C. Winckel, Elizabeth, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone-receiver. No. 1,330,214; Feb. 10; v. 271; p. 194.
Nordenswan, Robert, assignor to Western Electric Company, Incorporated, New York, N. Y. Vibration-responsive device. No. 1,330,491; Feb. 10; v. 271; p. 245.
Nordfors, Conrad, Jersey City, N. J., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Means for preventing creeping of printing-plates. No. 1,344,648; June 29; v. 275; p. 843.
Nordiska Kullager Aktubolaget. (See Danielsson, Axel, assignor.)
Nordiska Kullager Aktiebolaget. (See Gullbrandsson, Olof G., assignor.)
Nordiska Kullager Aktiebolaget. (See Lindman, Konrad W., assignor.)
Nordiska Kullager Aktiebolaget. (See Weibull, Ernst H. W., assignor.)
Nordlund, Erland, Stockholm, assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Roller-bearing. No. 1,344,276; June 22; v. 275; p. 704.
Nordmark, Henry P., assignor to Fox Typewriter Co., Grand Rapids, Mich. Typewriting-machine. No. 1,337,563; Apr. 20; v. 273; p. 486.
Nordmark, Herman, San Pedro, Calif. Airship. No. 1,336,651; Apr. 13; v. 273; p. 238.
Nordskog, Lawrence S., Des Moines, Iowa. Safety-razor. No. 1,342,028; June 1; v. 275; p. 81.
Nordstrom, Charles, Milwaukee, Wis. Tire-vulcanizer. No. 1,340,973; May 25; v. 274; p. 641.
Nordstrom, Sven J., San Francisco, Calif. Wrench. No. 1,360,670; Nov. 30; v. 280; p. 898.
Nordstrum, George W., Chicago, Ill. Thrust-bearing. No. 1,355,350; Oct. 12; v. 279; p. 231.
Nordwall, Hjalmar N., Muskegon, Mich. Fastening device. No. 1,357,722; Nov. 2; v. 280; p. 99.
Norelius, Emil F., Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Gun-carriage. No. 1,327,603; Jan. 6; v. 270; p. 135.
Norelius, Emil F., Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Trailer-wagon. No. 1,329,307; Jan. 27; v. 270; p. 582.
Norelius, Emil F., Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Transmission mechanism. No. 1,356,731; Oct. 26; v. 279; p. 589.
Norelius, Emil F., Peoria, Ill., and W. Turnbull, assignors to The Holt Manufacturing Company, Stockton, Calif. Cooling-radiator. No. 1,344,351; June 22; v. 275; p. 718.
Norfolk, Joseph R. B., Chicago, Ill. Artificial leg. No. 1,352,682; Sept. 14; v. 278; p. 223.
Norgord, John E., Rockdale, Wis. Wrench. No. 1,332,140; Feb. 24; v. 271; p. 644.
Noriega, Indalecio, Mexico, Mexico. Twin phonograph. No. 1,358,171; Nov. 9; v. 280; p. 247.
Norin, Carl E., Hartford, Conn., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,350,173; Aug. 17; v. 277; p. 522.
Norland, Torvald G., Stavanger, Norway. Smoking and drying apparatus for fish or the like. No. 1,344,350; June 22; v. 275; p. 718.
Norloff, Halfdan. (See Westberg, Elise, assignor.)
Norma Company of America, The. (See Bott, George R., assignor.)
Norma Company of America, The. (See Mueller, Frederick E., assignor.)
Norman, Charles W., Kenova, W. Va. Attachment for tire-pumps. No. 1,332,565; Mar. 2; v. 272; p. 75.
Norman, Edward R., Chicago, Ill. Packing-ring. No. 1,345,804; July 6; v. 276; p. 94.
Norman, Emil, Holmquist, S. D. Folding telescope. No. 1,348,780; Aug. 3; v. 277; p. 116.
Norman, Frederick D. (See Schwarzmann, W. E., and Norman.)
Norman, Frederick D., Springfield, Mass., assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Impulse-starting mechanism. No. 1,337,322; Apr. 20; v. 273; p. 441.
Norman, George, Birmingham, England. Mount or stand for machine-guns. No. 1,339,410; May 11; v. 274; p. 216.
Norman, Irene, Memphis, Tenn. Sleeping-porch. No. 1,359,418; Nov. 16; v. 280; p. 535.
Norman, James E., Larned, Kans. Haystacker and wheat-heaver. No. 1,332,227; Mar. 2; v. 272; p. 10.
Norman, Lloyd C. (See Gray, E. A., and Norman.)
Norman, Mehrold A., Chicago, Ill. Convertible freight-car. No. 1,361,896; Dec. 14; v. 281; p. 280.
Norman, William F., Nevada, Mo. Grave-marker. (Reissue.) No. 14,827; Mar. 30; v. 272; p. 887.

Digitized by Google

Normand, Henry S., Waterbury, Conn., assignor to Keystone Snap Fastener Corporation, Philadelphia, Pa. Snap-fastener. No. 1,358,098; Nov. 9, v. 280; p. 233.
Normandy, Isaac, St. Catharines, assignor to I. L. Leo, Toronto, Ontario, Canada. Pneumatic tire. No. 1,339,782; May 11; v. 274; p. 288.
Normandy Sea Food Company. (See Perry, William H., assignor.)
Normann, John P., Crookston, Minn. Bookbinding-machine attachment. No. 1,351,060; Aug. 31; v. 277; p. 803.
Normoyle, Daniel J., *et al.* (See Parsons, John H., assignor.)
Norquist, Victor C., Kansas City, Mo. Combined metal-barrel corrugating and edging machine. No. 1,355,351; Oct. 12; v. 279; p. 232.
Norre, Charles. (See Roline, C. G., and Norre.)
Norris, Almon E., Brookline, Mass. Cable-railway. No. 1,358,976; Nov. 16; v. 280; p. 453.
Norris, Daniel E., assignor of one-half to F. H. Norris, Robinson, Ill. Pipe-grip. No. 1,341,147; May 25; v. 274; p. 675.
Norris, Ernest. (See Moors, Walter C., assignor.)
Norris, Frank H. (See Norris, Daniel E., assignor.)
Norris, George E., assignor to The Perfection Mortise Machine Co., Columbus, Ohio. Mortising-machine. No. 1,356,394; Oct. 19; v. 279; p. 475.
Norris, Hallie, Pittsburgh, Pa. Spring-oiler. No. 1,356,111; Oct. 19; v. 279; p. 420.
Norris, Howard L., *et al.* (See Stowell, Edward R., assignor.)
Norris, John, and J. I. Pearsall, Mason City, Iowa. Shingle-rebaling machine. No. 1,346,241; July 13; v. 276; p. 241.
Norris, John H., New York, N. Y. Meter. No. 1,361,656; Dec. 7; v. 281; p. 136.
Norris, Nelson H., Renfrew, Ontario, Canada. Centering-device for cream-separator bowls. No. 1,361,283; Dec. 7; v. 281; p. 60.
Norris, Paul E., Pittsburgh, assignor to Westinghouse Union Battery Company, Swissvale, Pa. Terminal structure for electric batteries. No. 1,352,619; Sept. 14; v. 278; p. 210.
Norris, Paul E., Cleveland, Ohio, assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Lead-burning machine. No. 1,358,869; Nov. 16; v. 280; p. 433.
Norris, Robert, Wytheville, Va. Window-weatherproofing. No. 1,341,434; May 25; v. 274; p. 730.
Norris, William H., assignor of one-half to R. C. Bond, Oakdale, La. Clamping-bench. No. 1,361,284; Dec. 7; v. 281; p. 60.
Norris, Willie J., Chalybeate Springs, N. C. Wood-sawing machine. No. 1,335,694; Mar. 30; v. 272; p. 852.
Norsk Alkali A/S. (See Riiber, Claus N., assignor.)
Norsk Hydro-Elektrisk Kvaelstofaktieselskab. (See Bakke, Bjarne, assignor.)
Norsk Hydro-Elektrisk Kvaelstofaktieselskab. (See Bergve, E., and Jensen, assignors.)
Norsk Hydro-Elektrisk Kvaelstofaktieselskab. (See Bergve, Einar, assignor.)
Norsk Hydro-Elektrisk Kvaelstofaktieselskab. (See Bohre, Anton C., assignor.)
Norsk Hydroelektrisk Kvaelstofaktieselskab. (See Brodtkorb, Birger, assignor.)
Norsk Hydro-Elektrisk Kvaelstofaktieselskab. (See Fjellanger, Mikal, assignor.)
Norsk Hydro-Elektrisk Kvaelstofaktieselskab. (See Foss, A., and Halvorsen, assignors.)
Norsk Hydroelektrisk, Kvaelstofaktieselkab. (See La Cour, Jens L., assignor.)
North American Chemical Company. (See Thoma, Andrew, assignor.)
North Bros. M'f'g Co. (See Fegley, T. J., and Leopold, assignors.)
North Bros. Mfg. Co. (See Fegley, Thomas J., assignor.)
North Bro's. M'f'g. Co. (See Leopold, George O., assignor.)
North, Carl U., Montclair, N. J., assignor to Edward F. Terry Manufacturing Company. Automatic brake. No. 1,361,089; Dec. 7; v. 281; p. 22.
North, Charles E., Montclair, N. J., assignor of one-half to E. B. Phelps, Washington, D. C. Cleansing and sterilizing preparations. No. 1,339,783; May 11; v. 274; p. 288.
North East Electric Company. (See Dorsey, Farnum F., assignor.)
North East Electric Company. (See Fessenden, George R., assignor.)
North East Electric Company. (See Halbleib, Edward A., assignor.)
North East Electric Company. (See Lee, Earle P., assignor.)
North East Electric Company. (See Lee, Thomas L., assignor.)
North East Electric Company. (See Mix, Edwin S., assignor.)
North East Electric Company. (See Williams, Anthony F., assignor.)
North, Frederick K., administrator. (See Elia, G. E., and North.)
North, Frederick K., administrator. (See North, Thomas K., assignor.)
North, James H., Blackwood, N. J. Tire-filler. No. 1,337,528; Apr. 20; v. 273; p. 480.
North, John D., Burgh Apton, England, assignor of one-half to Boulton & Paul Limited, Norwich, Norfolk, England. Construction of spars and like members of air craft. No. 1,360,671; Nov. 30; v. 280; p. 898.
North, Samuel A., Bridgeport, Conn., assignor, by mesne assignments, to Remington Arms Company, Inc., New York, N. Y. Gaging or assorting machine. No. 1,348,310; Aug. 3; v. 277; p. 36.
North, Thomas K. (See Elia, G. E., and North.)
North, Thomas K., assignor to Vickers Limited, Westminster, London, England. Submarine mine. No. 1,340,288; May 18; v. 274; p. 440.
North, Thomas K., deceased; F. K. North, administrator, Swaffham, assignor to Vickers Limited, Westminster, England. Rifle and machine-gun. No. 1,363,262; Dec. 28; v. 281; p. 589.
North, William A., assignor to Emerson-Brantingham Company, Rockford, Ill. Speed-regulator for engines. No. 1,348,833; Aug. 3; v. 277; p. 135.
Northcott, Samuel, Madison, Wis. Automobile-hinge. No. 1,358,099; Nov. 9; v. 280; p. 234.
Nörther, Charles, assignor to Charles Noerther & Cie., Turin, Italy. Music-typewriter. No. 1,327,840; Jan. 13; v. 270; p. 241.
Northern Equipment Company. (See Veenschoten, Vincent V., assignor.)
Northern New York Foundry & Machine Co. (See Shevlin, George F., assignor.)
Northern Tool Company. (See Williams, Charles I., assignor.)
Northern Trust Company, The. (See Lang, Lincoln A., assignor.)
Northern Trust Company, The, trustee, *et al.* (See Scott, Ray W., assignor.)
Northey, John P., *et al.* (See Weston, A. H., and Peters, assignors.)
Northon, John, Clare, Mich. Road-leveler. No. 1,329,543; Feb. 3; v. 271; p. 38.
Northover, Harry R., Winnipeg, Manitoba, Canada. Means or appliance for stripping cartridges from charger-clips. No. 1,355,684; Oct. 12; v. 279; p. 295.
Northrop, Jonas. (See Draper, C. H., and Northrop.)
Northrop, Jonas, Hopedale, assignor to Hopedale Manufacturing Company, Milford, Mass. Automatic loom. No. 1,328,585; Jan. 20; v. 270; p. 418.
Northrop, Jonas, Hopedale, assignor to Hopedale Manufacturing Company, Milford, Mass. Thread parting and clamping mechanism. No. 1,352,083; Sept. 7; v. 278; p. 72.
Northrop, Jonas, Hopedale, assignor to Hopedale Manufacturing Company, Milford, Mass. Feeler-loom. No. 1,361,897; Dec. 14; v. 281; p. 230.
Northrop, Jonas, Hopedale, assignor to Hopedale Manufacturing Company, Milford, Mass. Feeler-loom. No. 1,361,898; Dec. 14; v. 281; p. 230.
Northrop, Lettie V., Fort Cobb, Okla. Thermometer-holder. No. 1,357,893; Nov. 2; v. 280; p. 132.
Northrup, Arthur D., Rochester, N. Y. Collapsible lensless finder for folding cameras. No. 1,345,224; June 29; v. 275; p. 952.
Northrup, Edwin F., Princeton, N. J., assignor to The Ajax Metal Company, Philadelphia, Pa. Artificially-cooled high-frequency coil. No. 1,328,336; Jan. 20; v. 270; p. 371.
Northrup, Edwin F., Princeton, N. J., assignor to The Ajax Metal Company, Philadelphia, Pa. Oscillation spiral coil and connection. No. 1,330,133; Feb. 10; v. 271; p. 179.
Northup, Benjamin, Kalamazoo, Mich. Clamp. No. 1,332,566; Mar. 2; v. 272; p. 75.
Northwest Process Company. (See Schaefer, August, assignor.)
Northwind Spark Plug Corporation. (See Cammen, L., and Ofeldt, assignors.)
Norton, A. O., Inc. (See Gormley, Frank L., assignor.)
Norton, Charles F., East St. Louis, Ill. Automobile-locking device. No. 1,349,849; Aug. 17; v. 277; p. 460.
Norton, Charles H., assignor to Norton Company, Worcester, Mass. Clutch mechanism. No. 1,361,797; Dec. 7; v. 281; p. 163.
Norton, Charles H., A. Turner, and J. S. Wilcox, Jr., assignors, by mesne assignments, to Norton Company, Worcester, Mass. Cross-feed mechanism for grinding-machines. No. 1,339,860; May 11; v. 274; p. 302.
Norton, Charles L., Boston, Mass. Making molded bodies of granular or comminuted material. No. 1,332,676; Mar. 2; v. 272; p. 96.
Norton, Charles L., Boston, Mass. Apparatus for molding bodies of granular or comminuted material. No. 1,332,677; Mar. 2; v. 272; p. 96.
Norton, Charles W. (See Bachman, R. A., and Norton.)
Norton Company. (See Dunbar, H. W., Turner, and Smith, assignors.)
Norton Company. (See Larsson, Thure, assignor.)
Norton Company. (See Norton, C. H., Turner, and Wilcox, Jr., assignors.)
Norton Company. (See Purdy, R. C., and Beecher, assignors.)
Norton Company. (See Purdy, Ross C., assignor.)
Norton Company. (See Saunders, Lewis E., assignor.)

Digitized by Google

Norton Door Check Company. (See Norton, Lewis C., assignor.)
Norton, Edward P., Oakland, Calif. Safety-razor. No. 1,349,291; Aug. 10; v. 277; p. 278.
Norton, Frank W., Minneapolis, Minn. Automobile-controlling device. No. 1,332,228; Mar. 2; v. 272; p. 10.
Norton, Frank W., Minneapolis, Minn. Automobile-controlling device. No. 1,336,856; Apr. 13; v. 273; p. 279.
Norton, Fred B., Carthage, Mo. Measuring-funnel. No. 1,359,730; Nov. 23; v. 280; p. 645.
Norton, Fred E., assignor to Jefferies-Norton Corporation. Worcester, Mass. Separating mixed gases. No. 1,354,056; Sept. 28; v. 278; p. 599.
Norton, Fred E., assignor to Jefferies-Norton Corporation, Worcester, Mass. Separating mixed gases. No. 1,354,057; Sept. 28; v. 278; p. 599.
Norton, Fred E., assignor to Jefferies-Norton Corporation, Worcester, Mass. Apparatus for the separation of mixed gases. No. 1,354,058; Sept. 28; v. 278; p. 600.
Norton, Fred E., assignor to Jefferies-Norton Corporation, Worcester, Mass. Apparatus for the separation of mixed gases. No. 1,354,059; Sept. 28; v. 278; p. 600.
Norton, Guy A., assignor to Los Angeles Trailer Company, Los Angeles, Calif. Duplex rocking fifth-wheel. No. 1,334,113; Mar. 16; v. 272; p. 479.
Norton Iron Works. (See Alexander, True, assignor.)
Norton, Joseph C., Cleveland, Ohio. Roof-edging. No. 1,327,770; Jan. 13; v. 270; p. 228.
Norton, Lewis C., Chicago, Ill. Door-closer. No. 1,345,504; July 6; v. 276; p. 35.
Norton, Lewis C., assignor to Norton Door Check Company, Chicago, Ill. Door-controlling device. No. 1,358,977; Nov. 16; v. 280; p. 455.
Norton, Roy H., Dedham, Mass. Bung-hole closure. No. 1,327,351; Jan. 6; v. 270; p. 88.
Norton, William F., Chicago, Ill. Stake construction for vehicles. No. 1,358,978; Nov. 16; v. 280; p. 453.
Nortwed, Bennie, Kellerton, Iowa. Wire-stretcher. No. 1,350,287; Aug. 17; v. 277; p. 544.
Norvell, Norman F. (See Kellam, A. S., and Norvell.)
Norwalk Auto Parts Company, The. (See McCutcheon, Charles A., assignor.)
Norwalk Auto Parts Company, The. (See Stockwell, Ivan A., assignor.)
Norwalk Iron Works, The. (See Wardwell, George W., assignor.)
Norwood, H. Y., and F. W. Stalker, assignors to Taylor Instrument Companies, Rochester, N. Y. Automatic recording mechanism. No. 1,350,174; Aug. 17; v. 277; p. 522.
Norwood, Harry G., assignor, by mesne assignments, to N. B. Lobe & Co., Baltimore, Md. Alligator-wrench. No. 1,328,389; Jan. 20; v. 270; p. 381.
Norwood, Harry G., assignor to E. J. Klemm, Baltimore, Md. Wrench. No. 1,335,293; Mar. 30; v. 272; p. 807.
Norwood, Harry G., assignor of one-half to N. B. Lobe & Co., one-fourth to E. J. Klemm, and one-fourth to E. Wischmeyer, Jr., Baltimore, Md. Railway-spike. No. 1,332,059; Feb. 24; v. 271; p. 629.
Norwood, Harry G., assignor to M. Strasburger and W. V. Strasburger, Baltimore, Md. Wrench. No. 1,363,343; Dec. 28; v. 281; p. 605.
Norwood, Harry Y., assignor to Taylor Instrument Companies, Rochester, N. Y. Thermometer. No. 1,326,957; Jan. 6; v. 270; p. 15.
Norwood, John E., Baltimore, Md. Piston-ring. (Reissue.) No. 14,969; Oct. 26; v. 279; p. 682.
Nossek, Rudolf, Cleveland, Ohio. Rolling screen. No. 1,363,746; Dec. 28; v. 281; p. 682.
Notareschi, Valentine, Struthers, Ohio. Connecting-rod. No. 1,359,269; Nov. 16; v. 280; p. 508.
Notaseme Hosiery Company. (See Fleisher, Horace T., assignor.)
Notaseme Hosiery Company. (See Matlack, James C., assignor.)
Nottebohm, Edward, Manila, Philippine Islands. Building construction. No. 1,345,871; July 6; v. 276; p. 106.
Notter, Charles, West Hoboken, N. J. Ash-sifter. No. 1,350,080; Aug. 17; v. 277; p. 504.
Nottingham, Otis W., Indianapolis, Ind. Heater. No. 1,355,249; Oct. 12; v. 279; p. 212.
Noullet, Frank A., New Orleans, La. Building structure. No. 1,334,672; Mar. 23; v. 272; p. 629.
Nover, Sadie, New York, N. Y. Handbag. No. 1,333,672; Mar. 16; v. 272; p. 396.
Novick, Abraham, New York, N. Y., assignor, by mesne assignments, to United States Envelope Company, Springfield, Mass. Envelop-machine. No. 1,328,011; Jan. 13; v. 270; p. 272.
Novick, Abraham, assignor to F. L. Schmidt Company, New York, N. Y. Envelop-fastener. No. 1,358,234; Nov. 9; v. 280; p. 260.
Novick, Max, New York, N. Y. Bed-spring. No. 1,329,202; Jan. 27; v. 270; p. 563.
Novotny, Emil E., Riverside, Ill., assignor to J. S. Stokes, Moorestown, N. J. Manufacture of printing-plates. No. 1,339,127; May 4; v. 274; p. 90.
Novotny, Emil E., Riverside, Ill., assignor to J. S. Stokes, Moorestown, N. J. Making printing-plate molds. No. 1,356,217; Oct. 19; v. 279; p. 441.
Novotny, Emil E., Riverside, Ill., assignor to J. Stogdell Stokes, Moorestown, N. J. Intaglio-plate. No. 1,357,339; Nov. 2; v. 280; p. 27.
Novotny, Emil E., Riverside, Ill., assignor to J. Stogdell Stokes, Moorestown, N. J. Lithographic and offset printing plate. No. 1,357,340; Nov. 2; v. 280; p. 27.
Novotny, Emil E., Riverside, Ill., assignor to J. Stogdell Stokes, Moorestown, N. J. Holding means for printing plates and saddles. No. 1,357,341; Nov. 2; v. 280; p. 27.
Novotny, Emil E., Riverside, Ill., assignor to J. Stogdell Stokes, Moorestown, N. J. Casting-box. No. 1,357,342; Nov. 2; v. 280; p. 27.
Novotny, Emil E., Riverside, Ill., assignor to J. Stogdell Stokes, Moorestown, N. J. Casting apparatus. No. 1,357,343; Nov. 2; v. 280; p. 27.
Novotny, Emil E., Philadelphia, Pa., assignor to J. Stogdell Stokes, Moorestown, N. J. Making printing elements and matrices therefor. No. 1,357,344; Nov. 2; v. 280; p. 28.
Novotny, Frank, *et al.* (See Doman, Herman C., assignor.)
Nowack, Charles H., Oak Park, Ill., assignor to American Can Company, New York, N. Y. Scoop. No. 1,330,548; Feb. 10; v. 271; p. 256.
Nowack, Charles H., Oak Park, Ill., assignor to American Can Company, New York, N. Y. Pouring-spout. No. 1,340,242; May 18; v. 274; p. 432.
Nowack, Charles H., Chicago, Ill., assignor to American Can Company, New York, N. Y. Container. No. 1,354,914; Oct. 5; v. 279; p. 93.
Nowack, Charles H., Chicago, Ill., assignor to American Can Company, New York, N. Y. Container for cheese and the like. No. 1,359,731; Nov. 23; v. 280; p. 645.
Nowack, Charles H., Chicago, Ill., assignor to American Can Company, New York, N. Y. Can-opening device. No. 1,359,830; Nov. 23; v. 280; p. 665.
Nowack, Charles H., Chicago, Ill., assignor to American Can Company, New York, N. Y. Can-opening device. No. 1,362,132; Dec. 14; v. 281; p. 277.
Nowak, Carl A., St. Louis, Mo. Brewing beer and low-alcoholic malt beverages. No. 1,328,888; Jan. 27; v. 270; p. 504.
Nowakowski, Joseph, Detroit, Mich. Elastic nailed sleeve for tires. No. 1,359,910; Nov. 23; v. 280; p. 681.
Nowland, Edward, Jr. (See Nowland, Edward W. B., assignor.)
Nowland, Edward W. B., assignor of one-half to E. Nowland, Jr., St. Louis, Mo. Steering apparatus for freight-carrying barges. No. 1,356,218; Oct. 19; v. 279; p. 442.
Noyes, Charles W., administrator. (See Gorton, Robert.)
Noyes, Harry W., West Haven, assignor of one-half to J. Hugo, New Haven, Conn. Traveling rocker. No. 1,331,664; Feb. 24; v. 271; p. 555.
Noyes, Stanley E. (See Hedlund, E. T., and Noyes.)
Nu Automatic Button Attaching Machine Co. (See Bammer, P., and Gensmer, assignors.)
Nu Automatic Button Attaching Machine Company. (See Bammer, Pius, assignor.)
Nu Automatic Button Attaching Machine Company. (See Gensmer, T., and Lieberman, assignors.)
Nu Automatic Button Attaching Machine Company. (See Matter, A. J., and Conley, assignors.)
Nu Automatic Button Attaching Machine Company. (See Matter, Albert J., assignor.)
Nuckols, Paul, Cordova, Ala. Lap-drawing machine. No. 1,351,678; Aug. 31; v. 277; p. 926.
Nueske, Frederick, assignor to Julius Nueske & Sons, Inc., New York, N. Y. Pattern-lathe. No. 1,354,453; Sept. 28; v. 278; p. 680.
Nueske, Julius, & Sons. (See Nueske, Frederick, assignor.)
Nu-Fire Appliance Company. (See Bargar, Frederick C., assignor.)
Nugent, Adam, Nutley, N. J. Game. No. 1,328,390; Jan. 20; v. 270; p. 381.
Nugent, Walter V. (See Garner, Frederick A., assignor.)
Nugent, William W., Chicago, Ill. Gravity center-oiler. No. 1,352,986; Sept. 14; v. 278; p. 284.
Nuhring, Charles and R., Cincinnati, Ohio. Cabinet hose-rack. No. 1,354,680; Oct. 5; v. 279; p. 47.
Nuhring, Robert. (See Nuhring, Charles and R.)
Nunamaker, Henry S., assignor to The V. L. Ney Hay Tool Company, Canton, Ohio. Hay-carrier. No. 1,346,242; July 13; v. 276; p. 242.
Nunamaker, Henry S., assignor to The V. L. Ney Hay Tool Company, Canton, Ohio. Hay-carrier. No. 1,346,243; July 13; v. 276; p. 242.
Nunamaker, Henry S., assignor to The V. L. Ney Hay Tool Company, Canton, Ohio. Hay-carrier. No. 1,354,125; Sept. 28; v. 278; p. 614.
Nunn, Nevvens N., assignor to The Almetal Manufacturing Company, Maplewood, Mo. Washing-machine. No. 1,351,486; Aug. 31; v. 277; p. 888.
Nurnberger, William, Huntington, W. Va. Rivet-breaker. No. 1,331,353; Feb. 17; v. 271; p. 475.
Nusbaum, Louis. (See Mass, A. G., and Nusbaum.)
Nuss, Carl T., Jamestown, N. D. Valve-cap and pressure-indicator. No. 1,361,285; Dec. 7; v. 281; p. 60.
Nuss, John J. (See Langrell, E. W., and Nuss.)
Nussbaum, Louis, Albany, N. Y. Vehicle. No. 1,340,733; May 18; v. 274; p. 524.
Nute, James E., Portland, Me. Waste-heat radiator. No. 1,328,540; Jan. 20; v. 270; p. 410.

Digitized by Google

Alphabetical list of patentees—Continued.

Nutry, John, Ridgewood, N. J. Guard for money-slots and the like. No. 1,343,151; June 8; v. 275; p. 355.
Nutt, Norman W., Trenton, N. J. Electric switch. No. 1,351,214; Aug. 31; v. 277; p. 833.
Nutt, William C., Point Marion, Pa. Power transmission. No. 1,353,063; Sept. 14; v. 278; p. 299.
Nyberg, Karl J. E., Stockholm, Sweden. Hairpin. No. 1,358,100; Nov. 9; v. 280; p. 284.
Nyblad, Axel L., Newport, England. Hoisting device. No. 1,327,876; Jan. 13; v. 270; p. 247.
Nydegger, Max. (See Fels, William, assignor.)
Nye, Earl B., Nitro, W. Va. Antiskidding device for automobiles. No. 1,362,572; Dec. 14; v. 281; p. 363.
Nye, Mark B., Buffalo, N. Y. Automatic check-valve mechanism. No. 1,339,128; May 4; v. 274; p. 90.
Nye, Rowland A. (See Harrigan, William C., assignor.)
Nye, Walter H. (See Thayer, Victor W., assignor.)
Nyhagen, Barney R., New York, N. Y. Engine-valve. No. 1,330,649; Feb. 10; v. 271; p. 275.
Nyholm, Peter, Edgewood, Wash. Extension-table. No. 1,337,092; Apr. 13; v. 273; p. 324.
Nyhus, Adolph, La Crosse, Wis. Cotter-pin extractor. No. 1,347,287; July 20; v. 276; p. 507.
Nylin, Erik H., Seattle, Wash. Attachment for hand-trucks. No. 1,358,235; Nov. 9; v. 280; p. 260.
Nylund, Andro, Juneau, Alaska. Shingle-cutting machine. No. 1,350,879; Aug. 24; v. 277; p. 705.
Nymanning, George, Los Angeles, Calif. Drilling-bit. No. 1,351,262; Aug. 31; v. 277; p. 843.
Nyquist, Gust R., Fresno, Calif. Spring. No. 1,336,314; Apr. 6; v. 273; p. 115.
Nyser, John C. F., Hartford, Conn. Detachable luggage-rack. No. 1,331,354; Feb. 17; v. 271; p. 475.
Nysewander, David J., Toledo, Ohio. Heater. No. 1,336,753; Apr. 13; v. 273; p. 258.
Nystrom, Carl F., New York, N. Y. Air-vent. No. 1,350,109; Aug. 17; v. 277; p. 510.
Nystrom, Karl F., Montreal, Quebec, Canada. Means for locking trucks to car-underframes. No. 1,356,001; Oct. 19; v. 279; p. 397.
Nystrom, Karl F., Montreal, Quebec, Canada. Truck-locking device. No. 1,357,796; Nov. 2; v. 280; p. 114.
Nyström, Knut, Stockholm, Sweden. Holder for balls in ball-bearings. No. 1,327,169; Jan. 6; v. 270; p. 54.
Nystrom, Martin, assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Brake mechanism for talking-machines. No. 1,361,173; Dec. 7; v. 281; p. 38.
Nystrom, Martin, assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Motor. No. 1,361,174; Dec. 7; v. 281; p. 38.
Nystrom, Martin, assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Supporting structure for the operative parts of talking-machines. No. 1,361,175; Dec. 7; v. 281; p. 39.
Nystrom, Martin, assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Talking-machine motor. No. 1,361,176; Dec. 7; v. 281; p. 39.
Nystrom, Oscar P., Holland, Mich. Double-seaming machine. No. 1,332,352; Mar. 2; v. 272; p. 33.
Nystrom, Oscar P., assignor to Holland Furnace Company, Holland, Mich. Furnace-grate construction. No. 1,332,353; Mar. 2; v. 272; p. 34.
Nystrom, Oscar P., assignor to Holland Furnace Company, Holland, Mich. Sheet-metal-working machine. No. 1,332,354; Mar. 2; v. 272; p. 35.
O. & J. Machine Company, The. (Johnson, J. E., and Oslund, assignors.)
O. K. Giant Battery Co. (See Rabe, Paul B., assignor.)
Oakes, Archie, assignor to Square D. Company, Detroit, Mich. Quick-break double-throw switch. No. 1,359,732; Nov. 23; v. 280; p. 645.
Oakes, Frank J., Indianapolis, Ind., assignor to Link-Belt Company, Chicago, Ill. Coal-cutting chain. No. 1,332,745; Mar. 2; v. 272; p. 109.
Oakes, Frank M., Sioux City, Iowa. Infant's toilet-seat. No. 1,348,372; Aug. 3; v. 277; p. 48
Oakes, George C., Merced, Calif. Chiropractor's table. No. 1,339,038; May 4; v. 274; p. 72.
Oakes, Henry W., *et al.* (See Curran, William, assignor.)
Oakes, James W. (See MacLanglois, Obart, assignor.)
Oakes, Oliver E., Asbury, Me. Compensating apparatus for well-digging outfits. No. 1,351,867; Sept. 7; v. 278; p. 31.
Oakes, Travis E. (See Hitner, H. F., and Oakes.)
Oakley, Fred F., assignor to The Cincinnati Specialty Manufacturing Company, Cincinnati, Ohio. Extension-reel for electric lamps, portable drills, and the like. No. 1,362,344; Dec. 14; v. 281; p. 318.
Oakley, Henry D., Syracuse, N. Y. Device for indicating magnetic polarity. No. 1,328,187; Jan. 13; v. 270; p. 306.
Oakley, John, Springfield, Mass. Broach. No. 1,359,831; Nov. 23; v. 280; p. 665.
Oakley, John, Springfield, Mass. Broach. No. 1,359,832; Nov. 23; v. 280; p. 665.
Oathout, Arthur N., assignor to C. L. Van Doren, Inc., Gloversville, N. Y. Glove. No. 1,339,129; May 4; v. 274; p. 90.
Oathout, Charles E., assignor to The Kaynee Company, Cleveland, Ohio. Buttonhole-tape. No. 1,336,577; Apr. 13; v. 273; p. 224.
Ober, John V., Ada, Minn. Coupling and operating device for tractor-harvesters. No. 1,339,278; May 4; v. 274; p. 116.
Oberg, Arnt, Berg, N. D. Draft-forming attachment for stovepipes. No. 1,332,746; Mar. 2; v. 272; p. 109.
Oberg, Astrid, Chicago, Ill. Garment-supporter. No. 1,358,775; Nov. 16; v. 280; p. 414.
Oberleytan, Jozef. (See Slobadzian, S., and Oberleytan.)
Oberman, Gertrude V., Modesto, Calif. Milk-bottle holder and cooler. No. 1,348,661; Aug. 3; v. 277; p. 103.
Obermeyer, Edward C., Nessen City, Mich. Adjustable ladder. No. 1,352,830; Sept. 14; v. 278; p. 253.
Obermiller, Maximilian W., New York, N. Y. Note-sheet-control mechanism. No. 1,362,262; Dec. 14; v. 281; p. 303.
Oberreich, Charles W., Bucyrus, Ohio. Toy. No. 1,336,374; Apr. 6; v. 273; p. 127.
Oberreich, Louie H., Indianapolis, Ind. Carbureter. No. 1,328,844; Jan. 27; v. 270; p. 495.
Oberreich, Louie H., Indianapolis, Ind. Shock-absorber. No. 1,361,479; Dec. 7; v. 281; p. 101.
Oberste, Hugo, and O. Wofford, Hartman, Ark. Measuring-funnel. No. 1,329,472; Feb. 3; v. 271; p. 24.
Oberwetter, George T. (See Clayton, O. B., and Oberwetter.)
O'Brien, Charles A., assignor to The Nairn Linoleum Company, Kearney, N. J. Inlaying linoleum and product thereof. No. 1,351,679; Aug. 31; v. 277; p. 926.
O'Brien, Daniel D., Waukesha, Wis. Tire-protector. No. 1,340,179; May 18; v. 274; p. 420.
O'Brien, David J., Sheepshead Bay, N. Y. Alternately-cross-corrugated paper. No. 1,360,142; Nov. 23; v. 280; p. 727.
O'Brien, Edmund J. (See Justice, H. H., and O'Brien.)
O'Brien, Edmund H., Kansas City, Mo. Door-lock. No. 1,340,398; May 18; v. 274; p. 461.
O'Brien, Frank J., Milwaukee, Wis. Metal-drawing apparatus. No. 1,341,664; June 1; v. 275; p. 10.
O'Brien, Gerald R., St. Paul, Minn. Lock for wheels of automobiles and other vehicles. No. 1,359,419; Nov. 16; v. 280; p. 538.
O'Brien, Henry G. (See Whithers, J., and O'Brien.)
O'Brien, Henry G., Warren, Ohio. Piling and transfer apparatus. No. 1,331,208; Feb. 17; v. 271; p. 449.
O'Brien, Henry G., Warren, Ohio. Rolling-mill shearing and piling apparatus. No. 1,337,464; Apr. 20; v. 273; p. 468.
O'Brien, Henry G., Warren, Ohio. Transfer-table for rolling-mills. No. 1,362,345; Dec. 14; v. 281; p. 319.
O'Brien-Hicks Iceless Container Company, The. (See Hicks, Linzy, assignor.)
O'Brien, John O. (See Thornton, John E., assignor.)
O'Brien, Joseph F., West New York, N. J. Awning-arm. No. 1,351,341; Aug. 31; v. 277; p. 860.
O'Brien, Joseph J., Springfield, Mass. Paper-clip. No. 1,340,180; May 18; v. 274; p. 420.
O'Brien, Sylvester L., Chicago, Ill. Grease-gun. No. 1,341,148; May 25; v. 274; p. 675.
O'Brien, Vincent R., and W. N. Parks, St. Paul, Minn. Nipple-coupling for radiators and similar structures. No. 1,340,289; May 18; v. 274; p. 440.
O'Brien, Willis H., and D. Siakel, Chicago, Ill.; said O'Brien assignor to said Siakel. Film-holder. No. 1,337,614; Apr. 20; v. 273; p. 496.
Obrima Automatische Waagenbau-Actiengesellschaft. (See Kader, Carl, assignor.)
O'Bryan, James P., Hog Island, Pa. Hoisting device. No. 1,329,107; Jan. 27; v. 270; p. 545.
O'Bryne, Joseph F., Tonopah, Nev. Protecting and decorating surfaces. No. 1,331,822; Feb. 24; v. 271; p. 585.
O'Byrne, Joseph F., Tonopah, Nev. Finishing vehicle-bodies and finishing-covers therefor. No. 1,332,269; Mar. 2; v. 272; p. 18.
O'Byrne, Joseph F., Freeport, N. Y. Hood. No. 1,333,214; Mar. 9; v. 272; p. 249.
Oca-Balda, José A., New York, N. Y. Alternated time-controlled mechanism for irons. No. 1,350,933; Aug. 24; v. 277; p. 716.
O'Callahan, John. Chicago, Ill. Curtain-frame. No. 1,335,854; Apr. 6; v. 273; p. 28.
Ocean Leather Co., The. (See Rogers, Allen, assignor.)
Ochs, George F., Newark, N. J. Airship. No. 1,337,409; Apr. 20; v. 273; p. 458.
Ochs, George F. A., Newark, N. J. Railway-tie. No. 1,344,926; June 29; v. 275; p. 896.
Ochs, George F. A., Newark, N. J. Railway-tie. No. 1,350,381; Aug. 24; v. 277; p. 609.
Ochs, George F. A., Newark, N. J. Railway-spike and lock. No. 1,353,843; Sept. 28; v. 278; p. 556.
Ochsner, Hans L., New York, N. Y. Attachment for embroidering-machines. No. 1,358,979; Nov. 16; v. 280; p. 454.
Ochsner, Jacob, Zurich, Switzerland. Dump-car. No. 1,361,608; Dec. 7; v. 281; p. 127.
Ochsner, Robert, New Haven, Conn. Automobile-lock. No. 1,331,166; Feb. 17; v. 271; p. 441.
Ockfen, Vera, Tacoma, Wash. Liquid-cooler. No. 1,355,352; Oct. 12; v. 279; p. 232.
O'Connell, Thomas J., Flint, Mich. Device for pouring joints. No. 1,337,256; Apr. 20; v. 273; p. 429.

Digitized by Google

O'Connell, Timothy, Brooklyn, N. Y. Producing carbon-hydrogen gas. No. 1,340,495; May 18; v. 274; p. 479.
O'Conner, Paul H., Mercedes, Tex., assignor of one-half to J. F. Hardesty, Baltimore, Md. Safety-top for cans. No. 1,332,515; Mar. 2; v. 272; p. 66.
O'Connor, Arthur F., assignor to The Union Railway Equipment Co., Chicago, Ill. Tank hand-hole and cover. No. 1,339,905; May 11; v. 274; p. 311.
O'Connor, Arthur F., assignor to The Union Railway Equipment Co., Chicago, Ill. Ventilator. No. 1,339,973; May 11; v. 274; p. 324.
O'Connor, Denis, assignor to C. G. Pearce, trustee, Joliet, Ill. Wrench. No. 1,360,672; Nov. 30; v. 280; p. 898.
O'Connor, Edward, New Haven, Conn. Soap-container. No. 1,350,175; Aug. 17; v. 277; p. 523.
O'Connor, Edward, New Haven, Conn. Closing device for rubber-tubing. No. 1,361,770; Dec. 7; v. 281; p. 158.
O'Connor, James, New York, N. Y. Pneumatic mechanism. No. 1,342,180; June 1; v. 275; p. 112.
O'Connor, James, New York, N. Y. Electric guiding mechanism. No. 1,360,565; Nov. 30; v. 280; p. 878.
O'Connor, James, New York, N. Y. Stencil-printing machine. No. 1,360,566; Nov. 30; v. 280; p. 878.
O'Connor, James B., and L. Tarwater, Kansas City, Mo. Sectional pneumatic tire. No. 1,330,815; Feb. 17; v. 271; p. 374.
O'Connor, John B., assignor to Lyon Metallic Manufacturing Company, Aurora, Ill. Shelving. No. 1,327,628; Jan. 13; v. 270; p. 201.
O'Connor, John E., *et al.* (See Bowen, Charles, assignor.)
O'Connor, John E., San Francisco, Calif. Typewriting-machine. No. 1,336,151; Apr. 6; v. 273; p. 85.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Shock-absorber. No. 1,329,795; Feb. 3; v. 271; p. 84.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Side bearing for railway-cars. No. 1,338,747; May 4; v. 274; p. 18.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Draft-rigging for railway-cars. No. 1,341,149; May 25; v. 274; p. 675.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,341,150; May 25; v. 274; p. 675.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Hand-brake. No. 1,344,309; June 22; v. 275; p. 710.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Insulation for refrigerator-cars and the like. No. 1,345,391; July 6; v. 276; p. 13.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Refrigerator-car door. No. 1,345,392; July 6; v. 276; p. 13.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,345,393; July 6; v. 276; p. 13.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Flexible coupling for shafting. No. 1,345,394; July 6; v. 276; p. 13.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Gravity self-centering roller-bearing. No. 1,345,805; July 6; v. 276; p. 94.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Side bearing. No. 1,353,971; Sept. 28; v. 278; p. 582.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,356,002; Oct. 19; v. 279; p. 397.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Sliding-door check. No. 1,356,003; Oct. 19; v. 279; p. 398.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Tandem shock-absorbing mechanism. No. 1,356,004; Oct. 19; v. 279; p. 398.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Door-check. No. 1,356,005; Oct. 19; v. 279; p. 398.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Hand-brake for railway-cars. No. 1,356,084; Oct. 19; v. 279; p. 414.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Antifriction-bearing. No. 1,357,797; Nov. 2; v. 280; p. 114.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Roller side bearing. No. 1,357,798; Nov. 2; v. 280; p. 114.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Rocker side bearing. No. 1,357,799; Nov. 2; v. 280; p. 114.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Roller-bearing. No. 1,357,800; Nov. 2; v. 280; p. 114.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,357,801; Nov. 2; v. 280; p. 114.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Side bearing. No. 1,357,802; Nov. 2; v. 280; p. 115.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,357,803; Nov. 2; v. 280; p. 115.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Side bearing for railway-cars. No. 1,357,804; Nov. 2; v. 280; p. 115.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Side bearing for railway-cars. No. 1,357,805; Nov. 2; v. 280; p. 115.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Antifriction-bearing. No. 1,357,806; Nov. 2; v. 280; p. 115.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Side bearing. No. 1,357,807; Nov. 2; v. 280; p. 116.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Body-bolster side bearing. No. 1,357,808; Nov. 2; v. 280; p. 116.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Antifriction-bearing. No. 1,357,809; Nov. 2; v. 280; p. 116.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Side bearing. No. 1,357,810; Nov. 2; v. 280; p. 116.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Side bearing. No. 1,357,811; Nov. 2; v. 280; p. 116.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Self-alining side bearing. No. 1,357,812; Nov. 2; v. 280; p. 117.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,360,434; Nov. 30; v. 280; p. 852.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Side bearing. No. 1,360,780; Nov. 30; v. 280; p. 920.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Counterbalanced roller-bearing. No. 1,360,781; Nov. 30; v. 280; p. 920.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Side bearing for railway-cars. No. 1,360,782; Nov. 30; v. 280; p. 920.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Side bearing for railway-cars. No. 1,360,783; Nov. 30; v. 280; p. 920.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Winding mechanism. No. 1,361,480; Dec. 7; v. 281; p. 101.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Hand-brake. No. 1,361,481; Dec. 7; v. 281; p. 101.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Brake mechanism. No. 1,361,482; Dec. 7; v. 281; p. 102.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Body-bolster side bearing for railway-cars. No. 1,361,483; Dec. 7; v. 281; p. 102.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Hand-brake for railway-cars. No. 1,361,484; Dec. 7; v. 281; p. 102.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction draft-rigging. No. 1,361,485; Dec. 7; v. 281; p. 102.
O'Connor, John F., Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,363,006; Dec. 21; v. 281; p. 499.
O'Connor, John F., Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,363,007; Dec. 21; v. 281; p. 499.
O'Connor, Nicomedes F. R., Buenos Aires, Argentina. Medicine-container. No. 1,338,935; Mar. 16; v. 272; p. 445.
Oddy, William D., Leeds, England. Propeller. No. 1,362,032; Dec. 14; v. 281; p. 257.
O'Connor, William T., Jackson, Ky. Aerial torpedo. No. 1,355,564; Oct. 12; v. 279; p. 273.
Odam, Eugène, Paris, France. Process and apparatus for atomizing materials in a melted state. No. 1,328,446; Jan. 20; v. 270; p. 391.
O'Dell, Frank T., Minneapolis, Minn., assignor to H. Mueller Manufacturing Co., Decatur, Ill. Hot-water heating system. No. 1,353,844; Sept. 28; v. 278; p. 556.
O'Dell, George L., Belding, Mich. Basket. No. 1,349,431; Aug. 10; v. 277; p. 306.
Odell, George W., Montreal, Quebec, Canada. Time-card-clipping machine. No. 1,344,059; June 22; v. 275; p. 662.
Odell, Robert R., Minneapolis, Minn. Artificial bait. No. 1,338,953; May 4; v. 274; p. 56.
Oden, Clyde. (See Eklundh, J. G. G., Oden, and Schmitt.)
Odenbach, Albert, assignor of one-half to J. Schochenmaier, Bonesteel, S. D. Horse-collar. No. 1,354,994; Oct. 5; v. 279; p. 108.
Odenrider, Henry C., Wilbur, Wash. Four-wheel-truck weeder. No. 1,348,311; Aug. 3; v. 277; p. 36.
Odhner, Valentin J., Gottenborg, Sweden. Coupling for detachably connecting coaxial shafts. No. 1,332,229; Mar. 2; v. 272; p. 10.
Odhner, Valentin J., Stockholm, Sweden. Calculating-machine. No. 1,348,575; Aug. 3; v. 277; p. 86.
Odhner, Valentin J., Stockholm, Sweden. Calculating-machine. No. 1,348,576; Aug. 3; v. 277; p. 87.
Odhner, Valentin J., Stockholm, Sweden. Transfer mechanism of calculating-machines. No. 1,355,565; Oct. 12; v. 279; p. 273.

Digitized by Google

Odhner, Valentin J., Stockholm, Sweden. Calculating-machine. No. 1,361,542; Dec. 7; v. 281; p. 114.
Odier, Antoine I., Puteaux, France. Apparatus for starting internal-combustion engines and also for other purposes. No. 1,339,411; May 11; v. 274; p. 216.
Odier, Antoine I., Puteaux, France. Starting apparatus for use with internal-combustion engines and other purposes. No. 1,351,399; Aug. 31; v. 277; p. 871.
Odierno, Giovanni, Milan, Italy. Trolley for electric tramways. No. 1,354,060; Sept. 28; v. 278; p. 600.
O'Dole, George W., Havana, Ill. Spiral-glide amusement device. No. 1,347,968; July 27; v. 276; p. 699.
O'Donnell, E. F., and D. Erickson, Chicago, Ill., assignors, by mesne assignments, to Crescent Check Writer Company. Check-writing machine. No. 1,358,468; Nov. 9; v. 280; p. 306.
O'Donnell, Edward L., St. Louis, Mo. Music-case. No. 1,330,388; Feb. 10; v. 271; p. 226.
O'Donnell, Francis J., Detroit, Mich. Rotary pump. No. 1,332,516; Mar. 2; v. 272; p. 66.
O'Donnell, Harry P., Lubec, Me., assignor to American Can Company, New York, N. Y. Drier and feeding device for coated or lithographed sheets or the like. No. 1,333,769; Mar. 16; v. 272; p. 414.
O'Donnell, John, Jr., assignor of one-half to L. H. Brown, Philadelphia, Pa. Signal for autos and other vehicles. No. 1,342,181; June 1; v. 275; p. 112.
O'Donnell, John J., Middletown, Conn. Bake-pan. No. 1,345,625; July 6; v. 276; p. 58.
O'Donnell, John W., Salem, Mass. Machine for treating hides, skins, and leather. No. 1,332,747; Mar. 2; v. 272; p. 109.
O'Donnell, Lewis G., Coscob, Conn. Temperature-regulator. No. 1,355,250; Oct. 12; v. 279; p. 212.
O'Dowd, Henry W., Jersey City, N. J., assignor to W. M. Crane Company. Gas-stove. No. 1,340,666; May 18; v. 274; p. 512.
Odquist, Victor, Yonkers, assignor to American Can Company, New York, N. Y. Threaded closure for cans. No. 1,330,088; Feb. 10; v. 271; p. 170.
Oebbecke, Ferdinand J., Philadelphia, Pa. Stage illusion effect. No. 1,339,279; May 4; v. 274; p. 116.
Oechsle, Theodore F., and A. D. Kumpf, Philadelphia, Pa. Window-pane fastening. No. 1,330,605; Feb. 10; v. 271; p. 266.
Oehler, Richard, St. Louis, Mo. Overhead conveyer system. No. 1,327,249; Jan. 6; v. 270; p. 69.
Oehler, Richard, St. Louis, Mo. Overhead roller conveyer system. No. 1,327,290; Jan. 6; v. 270; p. 77.
Oehm, William N., Michigan City, Ind. Car-underframe. No. 1,328,683; Jan. 20; v. 270; p. 436.
Oehm, William N., Michigan City, Ind. Car-end sheet. No. 1,328,684; Jan. 20; v. 270; p. 436.
Oehm, William N., Michigan City, Ind. Car-body. No. 1,329,006; Jan. 27; v. 270; p. 526.
Oehm, William N., Michigan City, Ind. Draft-arm. No. 1,353,488; Sept. 21; v. 278; p. 441.
Oelhafen, Arthur R., Tomahawk, Wis. Toy vehicle. No. 1,330,951; Feb. 17; v. 271; p. 401.
Oelslager, John K., Ingalls, Ind. Shaker and tank-heater. No. 1,330,717; Feb. 10; v. 271; p. 288.
Oerke, Agnes, Caldwell, Kans. Deflation-alarm for pneumatic-tired wheels. No. 1,359,098; Nov. 16; v. 280; p. 475.
Oertli, Henri, Dale, Tex. Knife. No. 1,346,669; July 13; v. 276; p. 326.
Oesterlein, Charles D., and L. H. Blood, assignors to The Oesterlein Machine Company, Cincinnati, Ohio. Milling-machine. No. 1,330,897; Feb. 17; v. 271; p. 390.
Oesterlein Machine Company, The. (See Oesterlein, C. D., and Blood, assignors.)
Oesterwitz, Otto H., Syracuse, N. Y. Finger-nail trimmer. No. 1,363,164; Dec. 21; v. 281; p. 529.
Oestreich, John G., Philadelphia, Pa. Valve-spring lifter. No. 1,358,871; Nov. 16; v. 280; p. 433.
Ofeldt, August W. (See Cammen, L., and Ofeldt.)
Ofeldt, Ernest T., assignor of one-half to R. A. Chesebrough, Spring Lake, N. J. Automatic gas-controller. No. 1,346,051; July 6; v. 276; p. 143.
Ofeldt, Frank W., assignor of one-half to F. McCarthy, Pittsburgh, Pa. Valve mechanism for engines. No. 1,359,523; Nov. 23; v. 280; p. 604.
Ott, Edward P., Philadelphia, Pa., assignor to The Dentists' Supply Company, New York, N. Y. Artificial tooth and making same. No. 1,348,041; July 27; v. 276; p. 714.
Offenhauser, Christopher. (See Hottmann, Charles W., assignor.)
Offenhauser, Christopher. Philadelphia, Pa. Drier and evaporator. No. 1,333,871; Mar. 16; v. 272; p. 433.
Offner, Charles, Lyon, France. Locking-washer. No. 1,341,279; May 25; v. 274; p. 700.
Offutt, Mary P., (now by marriage M. P. Cleaver,) New York, N. Y. Paper doll. No. 1,330,043; Feb. 3; v. 271; p. 130.
Ogawa, Riohei, Tokyo, Japan. Reinforcement for wooden keels and keelsons. No. 1,348,312; Aug. 3; v. 277; p. 36.
Ogawa, Riohei, Tokyo, Japan. Ship. No. 1,357,509; Nov. 2; v. 280; p. 58.

Ogden, Carlton N., Houston, Tex. Vending-machine. No. 1,327,058; Jan. 6; v. 270; p. 34.
Ogden, Carlton N., Houston, Tex. Display and vending device. No. 1,327,771; Jan. 13; v. 270; p. 228.
Ogden, Carlton N., Houston, Tex. Liquid-dispensing machine. No. 1,356,006; Oct. 19; v. 279; p. 398.
Ogden, Clarence E., Cincinnati, Ohio. Switchboard for charging storage batteries. No. 1,327,682; Jan. 13; v. 270; p. 211.
Ogden, Clarence E., Cincinnati, Ohio. Means for charging storage batteries. No. 1,344,812; June 29; v. 275; p. 874.
Ogden, James D., Crawford, Tex. Cotton-chopper. No. 1,328,638; Jan. 20; v. 270; p. 428.
Ogden, John E. (See Tomkinson, Charles C., assignor.)
Ogden, John E., Cornwall, N. Y. Folded metal expansion-shield. No. 1,350,562; Aug. 24; v. 277; p. 645.
Ogden, John E., Cornwall, N. Y. Concrete-insert. No. 1,351,119; Aug. 31; v. 277; p. 814.
Ogden, Thomas, and L. Ware, Rawlins, Wyo. Rotary valve. No. 1,360,784; Nov. 30; v. 280; p. 920.
Ogilvie, John M., Toronto, Ontario, Canada. Rubber fabric. No. 1,356,783; Oct. 26; v. 279; p. 598.
Ogle, Percy J., London, England, assignor to Ventiheta Limited. Warming and ventilating gas-stove. No. 1,328,012; Jan. 13; v. 270; p. 273.
Oglesby, Richard A., assignor to Quick Action Ignition Company, South Bend, Ind. Detachable magneto-armature head and core. No. 1,338,151; Apr. 27; v. 278; p. 668.
Oglesby, Samuel W., London, assignor to Hugh Stevenson & Sons, Limited, Manchester, England. Container. No. 1,345,021; June 29; v. 275; p. 913.
O'Gorman, Mervyn, Chelsea, London, England. Vibrato device for talking-machines. No. 1,338,726; Mar. 16; v. 272; p. 406.
O'Gorman, William J., New York, N. Y. Attachment for spark-plugs. No. 1,343,372; June 15; v. 275; p. 461.
O'Grady, James F., Sisseton, S. D. Airship. No. 1,330,889; Feb. 10; v. 271; p. 226.
O'Halloran, Joseph. (See Laurer, W. J., and O'Halloran.)
O'Hanlon, John F. (See Dysart, W. L., and O'Hanlon.)
O'Hara, Daniel L., Greenland, Mich. Electric switch. No. 1,340,788; May 18; v. 274; p. 534.
O'Hara, Patrick F. (See Folster, Clarence U., assignor.)
Ohashi, Hydesaburo, deceased, New York, N. Y.; M. V. Ohashi, administratrix. Carbon-paper and ink composition therefor. No. 1,328,188; Jan. 13; v. 270; p. 306.
Ohashi, Hydesaburo, deceased, New York, N. Y.; M. V. Ohashi, administratrix. Carbon-paper. No. 1,332,141; Feb. 24; v. 271; p. 644.
Ohashi, Marie V., administratrix. (See Ohashi, Hydesaburo.)
Öhborg, Johan F., Wiborg, Finland. Internal-combustion motor. No. 1,331,665; Feb. 24; v. 271; p. 555.
O'Hern, Joseph P., Chicago, Ill. Method and apparatus for measuring heat. No. 1,344,813; June 29; v. 275; p. 875.
Ohio Blower Company, The. (See Jippson, Adolf B., assignor.)
Ohio Brass Company, The. (See Austin, Arthur O., assignor.)
Ohio Brass Company, The. (See Averill, R. G., and Tomlinson, assignors.)
Ohio Brass Company, The. (See Averill, Rex G., assignor.)
Ohio Brass Company, The. (See Bolus, Glenn H., assignor.)
Ohio Brass Company, The. (See Bovard, William P., assignor.)
Ohio Brass Company, The. (See Brown, J. R., and Bolus, assignors.)
Ohio Brass Company, The. (See Brown, John R., assignor.)
Ohio Brass Company, The. (See Hunzicker, Walter W., assignor.)
Ohio Brass Company, The. (See Larsson, Ernst, assignor.)
Ohio Brass Company, The. (See Matthes, Samuel S., assignor.)
Ohio Brass Company, The. (See Mead, George A., assignor.)
Ohio Brass Company, The. (See Morgan, John T., assignor.)
Ohio Brass Company, The. (See Starkey, William C., assignor.)
Ohio Electric and Controller Company, The. (See Canfield, Harry R., assignor.)
Ohio Grease Company, The. (See Lowry, Frank, assignor.)
Ohio Malleable Iron Company, The. (See Anderson, David G., assignor.)
Ohio Motor Vehicle Company, The. (See Guthrie, James, assignor.)
Ohio Rake Company, The. (See Holtvoigt, Henry B., assignor.)
Ohio Suspender Company, The. (See Bear, John F., assignor.)
Ohio Tractor Company, The. (See Zuhars, B. C., and Clarke, assignors.)
Ohio Varnish Company, The. (See Gstalder, Paul A., assignor.)

Digitized by Google

Ohlau, Henry, Irondequoit, assignor to General Railway Signal Company, Gates, N. Y. Method and apparatus for making springs. No. 1,363,808; Dec. 28; v. 281; p. 694.
Ohler, Frank L., assignor to The Haughton Elevator and Machine Co., Toledo, Ohio. Gate-actuating mechanism. No. 1,358,776; Nov. 16; v. 280; p. 414.
Ohliger, Lewis P., G. Willson, J. A. White, Niagara Falls, and A. R. Reid, Buffalo, assignors to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Relief mechanism for storage batteries. No. 1,363,263; Dec. 28; v. 281; p. 589.
Ohlson, Olof, West Newton, Mass. Device for forming filaments. No. 1,337,258; Apr. 20; v. 273; p. 429.
Ohlson, Olof, West Newton, assignor to Waltham Watch Company, Waltham, Mass. Pressure-gage. No. 1,340,399; May 18; v. 274; p. 461.
Ohlson, Olof, Newton, Mass., assignor to Waltham Watch Company, Waltham, Mass. Setting-lock for time-fuses. No. 1,358,236; Nov. 9; v. 280; p. 260.
Ohlsson, Olof, Södertelje, Sweden. Valve set for combined internal-combustion engines and vacuum pressure-pumps. No. 1,334,963; Mar. 30; v. 272; p. 745.
Ohmacht, August L. W., Cresco, Iowa. Radiator-support. No. 1,344,559; June 22; v. 275; p. 760.
Ohman, John L., assignor of one-fourth to N. K. Farish, Niagara Falls, N. Y. Refractory material. No. 1,356,939; Oct. 26; v. 279; p. 629.
Ohmer Fare Register Company. (See Crouch, Walker L., assignor.)
Ohmer Fare Register Company. (See Kelly, Joseph N., assignor.)
Ohmer Fare Register Company. (See Sibley, H. J., and Coil, assignors.)
Ohmer, Frederick L. (See Ohmer, John F. and F. L.)
Ohmer, John F. and F. L., Dayton, Ohio; said F. L. Ohmer assignor to said J. F. Ohmer. Automobile-service recorder. No. 1,360,567; Nov. 30; v. 280; p. 878.
Ohmer, John F. and F. L., Dayton, Ohio; said F. L. Ohmer assignor to said J. F. Ohmer. Protective device for autotruck-service recorders. No. 1,360,568; Nov. 30; v. 280; p. 878.
Ohmer, John F. and J. F., Jr., assignors to Ohmer Register Company, Dayton, Ohio. Ticket-issuing device. No. 1,346,970; July 20; v. 276; p. 445.
Ohmer Register Company. (See Ohmer, John F. and J. F., Jr., assignors.)
Ohmer, W. I. (See Hochstetter, Frederick W., assignor.)
Ohnell, Ernst J. (See Olhovsky, Vladimir, assignor.)
Ohnstrand, Enoch, Mohawk, N. Y., assignor to Library Bureau, Cambridge, Mass. Cabinet or filing-tray. No. 1,354,510; Oct. 5; v. 279; p. 12.
Ohrmundt, Arthur E. (See Uttech, H. C., and Ohrmundt.)
Ohrström, Vilhelm T., assignor to Aktiebolaget Patria, Stockholm, Sweden. Electric switch. No. 1,361,609; Dec. 7; v. 281; p. 127.
Ohrt, Emil W., Reinbeck, Iowa. Spring-damper for valve mechanism. No. 1,349,089; Aug. 10; v. 277; p. 238.
Ohrt, Emil W., Reinbeck, Iowa. Spring damping means for valve mechanism. No. 1,349,090; Aug. 10; v. 277; p. 238.
Ohst, William F., Long Branch, N. J. Bridle-strap-attaching tip. No. 1,359,420; Nov. 16; v. 280; p. 539.
Oil Well Reclamation Company. (See Gregory, Ralph, assignor.)
Oil Well Supply Company. (See Mack, Patrick H., assignor.)
Oil Wells Renewal Company, The. (See Hollister, G. S., and Cooper, assignors.)
Oishei, John R., Buffalo, N. Y. Cleaner for windshields and the like. No. 1,362,175; Dec. 14; v. 281; p. 285.
Oium, George T., Minneapolis, Minn. Machine for making phonograph-needles. No. 1,340,400; May 18; v. 274; p. 461.
Ojczyk, Walter, Cleveland, Ohio. Shade and curtain fixture. No. 1,337,615; Apr. 20; v. 273; p. 496.
Ojust Spark Plug Works. (See Welch, Samuel P., assignor.)
Oka, Charly, Santa Clara County, Calif. Fruit cutting and pitting machine. No. 1,339,364; May 4; v. 274; p. 132.
O'Kane, Walter C., Durham, N. H., assignor to The Red-E Company, Columbus, Ohio. Camp-stove. No. 1,333,335; Mar. 9; v. 272; p. 272.
O'Keefe, Donald P., Coff's Harbour, New South Wales, Australia. Trailer for automobiles. No. 1,361,090; Dec. 7; v. 281; p. 22.
O'Keefe, William M., Birmingham, England. Foundry molding-machine. No. 1,347,119; July 20; v. 276; p. 474.
O'Keeffe, Thomas J., Cambridge, Mass. Making shoes. No. 1,332,230; Mar. 2; v. 272; p. 10.
Okey, Perry, Columbus, Ohio. Heat-engine. No. 1,343,577; June 15; v. 275; p. 501.
Okey, Perry, Columbus, Ohio. Fluid-density meter. No. 1,354,681; Oct. 5; v. 279; p. 47.
Okum, Morris B., assignor to A. Murphy, Chicago, Ill. Bed-spring structure. No. 1,335,523; Mar. 30; v. 272; p. 850.
Okun, Morris B., assignor to The Seng Company, Chicago, Ill. Corner-post fastener for beds. No. 1,332,853; Mar. 2; v. 272; p. 129.
Okun, Morris B., assignor to The Seng Company, Chicago, Ill. Bed-rail fastener. No. 1,346,908; July 20; v. 276; p. 433.
Okun, Morris B., assignor to A. Murphy, Chicago, Ill. Collapsible cot. No. 1,332,950; Mar. 9; v. 272; p. 200.
Okun, Morris B., assignor to A. Murphy, Chicago, Ill. Bed-post-fastener. No. 1,337,150; Apr. 13; v. 273; p. 334.
Okun, Morris B., assignor to G. W. Zimmer, Chicago, Ill. Corner-post fastener. No. 1,341,068; May 25; v. 274; p. 660.
Okun, Morris B., assignor to A. Murphy, Chicago, Ill. Side-rail structure. No. 1,361,610; Dec. 7; v. 281; p. 127.
Okun, Moses S., New York, N. Y. Power apparatus. No. 1,356,463; Oct. 19; v. 279; p. 489.
Olander, Axel E., Omaha, Nebr. Automobile attachment. No. 1,356,395; Oct. 19; v. 279; p. 476.
Olberg, Charles R., Alhambra, Calif. Pumping system. No. 1,356,554; Oct. 26; v. 279; p. 553.
Olbon, John A., Paterson, assignor to Auto Safety Device Company, Union, N. J. Automobile-lock. No. 1,360,673; Nov. 30; v. 280; p. 898.
Olbon, John A., Paterson, assignor to Auto Safety Device Company, Union, N. J. Automobile-steering-post lock. No. 1,360,674; Nov. 30; v. 280; p. 899.
Olbon, John A., Paterson, assignor to Auto Safety Device Company, Union, N. J. Steering-post lock. No. 1,360,675; Nov. 30; v. 280; p. 899.
Olcott, Walter, South Manchester, Conn. Corn-pulp remover. No. 1,345,456; July 6; v. 276; p. 25.
Old Dominion Specialty Co., The. (See Sanford, Crocker H., assignor.)
Oldakowski, Felix, Beacon Falls, Conn. Sled. No. 1,354,995; Oct. 5; v. 279; p. 108.
Oldenburg, Louis H., Oshkosh, Wis. Barber's-appliance trolley. No. 1,362,580; Dec. 14; v. 281; p. 364.
Oldfield, Robert A., Birmingham, England. Lamp. No. 1,338,954; May 4; v. 274; p. 56.
Oldham, John H., Detroit, assignor to Blackmer Rotary Pump Co., Petoskey, Mich. Hand-operating attachment for pumps. No. 1,329,137; Jan. 27; v. 270; p. 551.
Olds, Alfred W., Windsor, Conn. Apparatus for operating vehicle-warning signs. No. 1,358,102; Nov. 9; v. 280; p. 284.
O'Leary, Daniel. (See Woods, Joseph M., assignor.)
O'Leary, Daniel J., Bruff, Ireland. Traveling-rug and fastening therefor. No. 1,335,524; Mar. 30; v. 272; p. 850.
O'Leary, Edward J., Seattle, Wash. Die. No. 1,362,573; Dec. 14; v. 281; p. 363.
O'Leary, Marguerite V. (See O'Leary, William J., assignor.)
O'Leary, William J., assignor to M. V. O'Leary, Montreal, Quebec, Canada. Oscillating motor. No. 1,327,250; Jan. 6; v. 270; p. 69.
Oleen, Olof H. (See Oleen, William A. and O. H.)
Oleen, Olof H., Columbia City, Oreg. Garden-tool. No. 1,342,392; June 1; v. 275; p. 151.
Oleen, William A. and O. H., Columbia City, Oreg. Door opening and closing mechanism. No. 1,333,567; Mar. 9; v. 272; p. 315.
Olesiak, Joseph. (See Wiski, Joseph, assignor.)
Oleson, Frank, administrator. (See Sawyer, Howard I.)
Oleson, Olaf E., assignor to The Edward Valve & Manufacturing Co., Chicago, Ill. Separator for steam and oil. No. 1,328,889; Jan. 27; v. 270; p. 505.
Olevin, Adolph, Detroit, Mich. Fruit and vegetable peeling attachment. No. 1,347,288; July 20; v. 276; p. 508.
Olevin, Adolph, assignor to Alvin Electrical Products Company, Detroit, Mich. Combination-lock for letter-boxes. No. 1,353,064; Sept. 14; v. 278; p. 299.
Olhovsky, Vladimir, New York, assignor to E. J. Ohnell, Brooklyn, N. Y. Tachometer. No. 1,327,629; Jan. 13; v. 270; p. 201.
Olhovsky, Vladimir, assignor to E. J. Ohnell, New York, N. Y. Tool for bending wire. No. 1,337,616; Apr. 20; v. 273; p. 497.
Olhovsky, Vladimir, assignor to E. J. Ohnell, Brooklyn, N. Y. Propeller. No. 1,346,508; July 13; v. 276; p. 295.
Olhovsky, Vladimir, New York, assignor to E. J. Ohnell, Brooklyn, N. Y. Explosion gas-turbine. No. 1,346,509; July 13; v. 276; p. 295.
Oliensis, Gershon L., Philadelphia, Pa., and J. S. Miller, Jr., Rahway, N. J., assignors to The Barber Asphalt Paving Company, Philadelphia, Pa. Fibered asphalt. No. 1,340,181; May 18; v. 274; p. 420.
Olinger, Thomas, assignor to Holland Lighting & Specialty Co., Holland, Mich. Surgical operating-table. No. 1,357,414; Nov. 2; v. 280; p. 40.
Olinger, Thomas, assignor to Holland Lighting and Specialty Company, Holland, Mich. Veterinary hopple. No. 1,357,415; Nov. 2; v. 280; p. 40.
Olinger, Thomas, assignor to Holland Lighting and Specialty Company, Holland, Mich. Veterinary surgical table. No. 1,357,416; Nov. 2; v. 280; p. 41.
Olinger, Thomas, and F. Stalker, assignors to Holland Lighting and Specialty Company, Holland, Mich. Veterinary surgical table. No. 1,357,417; Nov. 2; v. 280; p. 41.
Olliphant, George R., Enterprise, Miss. Curing hides or skins. No. 1,362,502; Dec. 14; v. 281; p. 849.

Digitized by Google

Alphabetical list of patentees—Continued.

Oliphant, John, assignor to Sullivan Machinery Company, Chicago, Ill. Air-lift pump. No. 1,363,198; Dec. 21; v. 281; p. 536.
Olive, John T., Worden, Ill. Check-holder. No. 1,341,720; June 1; v. 275; p. 21.
Oliver, Alfred S., and J. S. Gruber, Medical Lake, Wash. Fish-lure. No. 1,359,618; Nov. 23; v. 280; p. 623.
Oliver, Charles E., assignor to Universal Safety Tread Company, Boston, Mass. Stair-tread. No. 1,340,243; May 18; v. 274; p. 432.
Oliver, Chester C. (See Depuy, C. A., and Oliver.)
Oliver Chilled Plow Works. (See Heylman, Edward M., assignor.)
Oliver Chilled Plow Works. (See Stickley, Lloyd W., assignor.)
Oliver, Dew R., San Francisco, Calif. Air-motor. No. 1,345,022; June 29; v. 275; p. 913.
Oliver, Dr. F., deceased, Oakland, Calif.; L. F. Oliver, executrix. Seat. No. 1,333,993; Mar. 16; v. 272; p. 456.
Oliver, Edwin L., Oakland, Calif. Rotary filter-table. No. 1,335,695; Mar. 30; v. 272; p. 882.
Oliver, Elmer, Daytona, Fla. Split demountable rim. No. 1,341,926; June 1; v. 275; p. 62.
Oliver, Herbert G., New York, N. Y. Constructing expansible metal. No. 1,358,101; Nov. 9; v. 280; p. 234.
Oliver, James H., New Bedford, Mass. Shuttle. No. 1,354,265; Sept. 28; v. 278; p. 643.
Oliver, Lillie F., executrix. (See Oliver, Doctor F.)
Oliver, Roland L., *et al.* (See Prole, William A., assignor.)
Oliver, Stacy, Avalon, Pa. Silencer-coupling. No. 1,354,416; Sept. 28; v. 278; p. 672.
Oliver, William J., Christchurch, New Zealand. Lifting or sling hook. No. 1,344,187; June 22; v. 275; p. 686.
Olivetti, Camillo, Ivrea, Italy. Typewriting-machine. No. 1,356,652; Oct. 26; v. 279; p. 572.
Ollard, James C. (See Seabury and Ollard.)
Ollard, James C., Tacoma, Wash. Clutch. No. 1,333,440; Mar. 9; v. 272; p. 291.
Olleo, Ralph, assignor to Frederick Osann Company, New York, N. Y. Dust-collector for beating-machines. No. 1,329,138; Jan. 27; v. 270; p. 551.
Olley, Raymond H., Syracuse, N. Y. Power plant. No. 1,344,814; June 29; v. 275; p. 875.
Ollivier, Jocelyn E., Paris, France. Motor-vehicle for soft ground. No. 1,340,789; May 18; v. 274; p. 535.
Ollivier, Jocelyn E., St. Gervais-les-Bains, France. Runner-carrier for motor-vehicles. No. 1,346,052; July 6; v. 276; p. 143.
Ollivier, Jocelyn-Emile, Haute-Savoie, France. Traction-increasing device. No. 1,352,683; Sept. 14; v. 278; p. 223.
Olmsted, R. M. (See Johnson, Gustaf A., assignor.)
Olney, Joseph W., Latah, Wash. Hatchet. No. 1,340,401; May 18; v. 274; p. 462.
Olney, Lillian B., assignor of one-half to F. Weeks and F. Berry, San Francisco, Calif. Collapsible automobile-rim. No. 1,350,262; Aug. 17; v. 277; p. 539.
Olofson, Carl F. E. (See Lindstrom, N. O., and Olofson.)
Olsen, Alfred N., Rock Rapids, Iowa. Pin-setting mechanism. No. 1,347,821; July 27; v. 276; p. 670.
Olsen, Axel, Mendoza, Argentina. Motor-vehicle cover. No. 1,331,122; Feb. 17; v. 271; p. 433.
Olsen, Carl M., Chicago, Ill. Flat-top desk. No. 1,358,980; Nov. 16; v. 280; p. 454.
Olsen, Clarence M., St. Louis, Mo. Block-signal system. No. 1,355,251; Oct. 12; v. 279; p. 212.
Olsen, Edward A., assignor of one-half to H. M. Covey, Portland, Oreg. Locking device for automobile hand-control levers. No. 1,333,215; Mar. 9; v. 272; p. 249.
Olsen, Hans P., Spokane, Wash. End-gate. No. 1,351,486; Aug. 31; v. 277; p. 878.
Olsen, Hjalmar, Christiania, and T. R. Forland, Haugesund, Norway, assignors to Titan Co. A/S., Christiania, Norway. Solution of titanium and iron salts and preparing same. No. 1,333,849; Mar. 16; v. 272; p. 429.
Olsen, Johan A., Copenhagen, Denmark. Method of and machine for preparing leguminous fruits and the like without stripping off the strings. No. 1,338,035; Apr. 27; v. 273; p. 646.
Olsen, Joseph G., and L. Cook, New York, N. Y. Walking doll. No. 1,332,355; Mar. 2; v. 272; p. 85.
Olsen, Karl O., St. Helens, Oreg. Bevel-square for shipbuilding. No. 1,341,435; May 25; v. 274; p. 730.
Olsen, Lawrence. (See Heath, Frank C., assignor.)
Olsen, Olav G., Binghamton, N. Y. Valves. No. 1,341,151; May 25; v. 274; p. 675.
Olsen, Othelius J., Portland, Oreg. Carpenter's square. No. 1,333,128; Mar. 9; v. 272; p. 233.
Olsen, Rebecca, Chicago, Ill. Hair-waving device. No. 1,358,172; Nov. 9; v. 280; p. 248.
Olsen, Simon D., Leeds, England. Machine for making hollow glassware. No. 1,329,253; Jan. 27; v. 270; p. 573.
Olsen, Thorsten Y., Philadelphia, Pa. Machine for testing shell-cases. No. 1,334,785; Mar. 23; v. 272; p. 651.
Olson, Anders, and S. Hanson, Galesburg, Ill. Corn-harvesting machine. No. 1,336,578; Apr. 13; v. 273; p. 225.
Olson, Andrew P., Chicago, Ill. Automobile bumper and fender. No. 1,332,142; Feb. 24; v. 271; p. 644.
Olson, Andrew P., Chicago, Ill. Golf-club. No. 1,352,020; Sept. 7; v. 278; p. 60.
Olson, Benjamin W., Stillwater, Minn. Automobile-brake. No. 1,339,524; May 11; v. 274; p. 238.
Olson, Bertha C., New York, N. Y. Brassière. No. 1,328,586; Jan. 20; v. 270; p. 419.
Olson, Carl, Racine, Wis. Jumping-jack toy. No. 1,354,577; Oct. 5; v. 279; p. 26.
Olson, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Quenching apparatus. No. 1,327,443; Jan. 6; v. 270; p. 104.
Olson, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Hardening-machine. No. 1,335,912; Apr. 6; v. 273; p. 39.
Olson, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Machine for hardening plates. No. 1,337,465; Apr. 20; v. 273; p. 468.
Olson, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Testing-machine. No. 1,357,813; Nov. 2; v. 280; p. 117.
Olson, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Tool-dressing device. No. 1,357,814; Nov. 2; v. 280; p. 117.
Olson, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Producing hobs. No. 1,357,815; Nov. 2; v. 280; p. 117.
Olson, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Etching process. No. 1,357,816; Nov. 2; v. 280; p. 117.
Olson, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Lapping-machine. No. 1,360,435; Nov. 30; v. 280; p. 852.
Olson, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Radial milling-machine. No. 1,362,816; Dec. 21; v. 281; p. 463.
Olson, Carl G., and N. Trbojevich, assignors to Illinois Tool Works, Chicago, Ill. Combination roughing and finishing hob. No. 1,343,276; June 15; v. 275; p. 442.
Olson, Carl S., Troy, Idaho. Automatic speed-regulator. No. 1,352,310; Sept. 7; v. 278; p. 115.
Olson, Emil, Rochester, N. Y. Cover for cooking vessels. No. 1,345,457; July 6; v. 276; p. 25.
Olson, Eugene A., East Hartford, Conn. Combination card and memorandum-book. No. 1,350,733; Aug. 24; v. 277; p. 678.
Olson, Gustaf, Chicago, Ill. Needle-pointer. No. 1,361,091; Dec. 7; v. 281; p. 22.
Olson, Gustaf, assignor of one-half to Willard M. McEwen, Chicago, Ill. Fluid-pump. No. 1,338,839; May 4; v. 274; p. 85.
Olson, John, Hoquiam, Wash. Wire-cable-splicing machine. No. 1,341,579; May 25; v. 274; p. 758.
Olson, John A., Minneapolis, Minn. Piston-ring. No. 1,357,181; Oct. 26; v. 279; p. 675.
Olson, John A., assignor to American Pneumatic Chuck Company, Chicago, Ill. Positive-gripping cylinder. No. 1,334,503; Mar. 23; v. 272; p. 598.
Olson, John L., Logansport, Ind. Ventilator. No. 1,362,033; Dec. 14; v. 281; p. 257.
Olson, Jorgen, Cashton, Wis. Double-seaming stake. No. 1,337,466; Apr. 20; v. 273; p. 468.
Olson, Karl A., New York, N. Y. Diving-bell. No. 1,361,899; Dec. 14; v. 281; p. 230.
Olson, Lloyd V., Clyde, Kans. Repeating firearm. No. 1,355,252; Oct. 12; v. 279; p. 212.
Olson, Magnus. (See Alexis, H. F., and Olson.)
Olson, Magnus E. (See Kidder, Dwight E., assignor.)
Olson, Olof W., New York, N. Y. Priming-cup. No. 1,358,237; Nov. 9; v. 280; p. 260.
Olson, Samuel, Chicago, Ill. Mail-distributing conveyer system. No. 1,332,356; Mar. 2; v. 272; p. 35.
Olson, Samuel, Chicago, Ill. Tray-elevator. No. 1,351,215; Aug. 31; v. 277; p. 834.
Olson, Samuel, Chicago, Ill. Package-feeder for carriers. No. 1,362,034; Dec. 14; v. 281; p. 258.
Olson, Swan, Rockford, Ill. Guard-cage. No. 1,347,652; July 27; v. 276; p. 636.
Olson, Walter E., Chicago, Ill. Support for rugs in dyeing the same. No. 1,326,958; Jan. 6; v. 270; p. 15.
Olson, Walter S., Bowman, N. D. Fluid transmission. No. 1,363,907; Dec. 28; v. 281; p. 713.
Olson, William C., New Bedford, Ill. Pulley attachment for motors. No. 1,343,152; June 8; v. 275; p. 355.
Olson, William F., Omaha, Nebr. Typewriter-desk. No. 1,355,772; Oct. 12; v. 279; p. 312.
Olson, William H., Greenfield, Mass. Filing-cabinet. No. 1,334,712; Mar. 23; v. 272; p. 637.
Olson, William O., assignor to The Marmon Chicago Company, Chicago, Ill. Spark-plug. No. 1,335,793; Apr. 6; v. 273; p. 17.
Olson, William O., assignor, by mesne assignments, to The Arc-O Manufacturing Co., Inc., Chicago, Ill. Spark-plug. No. 1,354,126; Sept. 282; v. 278; p. 614.
Olsson, John W., York, Pa. Toy vehicle. No. 1,348,577; Aug. 3; v. 277; p. 87.
Olsson, Nils J., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Means for automatically cutting off the feed-motion of machine-tools. No. 1,328,387; Jan. 20; v. 270; p. 371.
Olsson, Nils J., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Feed mechanism having electrically-actuated releasing devices. No. 1,332,270; Mar. 2; v. 272; p. 18.

Digitized by Google

Olsson, Nils J., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Means for automatically cutting off the feed-motion of machine-tools. No. 1,349,222; Aug. 10; v. 277; p. 264.
Olsson, Ored, Ord, Nebr. Windmill. No. 1,360,013; Nov. 23; v. 280; p. 701.
Olsson, Zach, Toomsboro, Ga. Tire-filling apparatus. No. 1,360,310; Nov. 30; v. 280; p. 828.
Olszewska, Genowefa, Adena, Ohio. Closure for non-refillable bottles. No. 1,332,231; Mar. 2; v. 272; p. 10.
Olszewski, Sylvester, Detroit, Mich. Traffic-signal for automobiles. No. 1,349,689; Aug. 17; v. 277; p. 480.
Oltmans, Jacob, Hilversum, Netherlands. Manufacture of pliant floor-covering. No. 1,356,784; Oct. 26; v. 279; p. 598.
Oltsch, George J., South Bend, Ind. Combined shock-absorber and rebound-snubber for vehicle-springs. No. 1,350,110; Aug. 17; v. 277; p. 510.
O'Malley, Daniel E., Salina, Kans. Automatic air-valve for gas-engines. No. 1,361,771; Dec. 7; v. 281; p. 158.
O'Malley, John F., Mount Vernon, N. Y. Machine-gun. No. 1,329,922; Feb. 3; v. 271; p. 108.
Öman, Erik, Stockholm, Sweden. Separating water or other liquids from solutions. No. 1,359,911; Nov. 23; v. 280; p. 681.
Oman, Frank W., Spokane, Wash. Turbine-engine. No. 1,329,626; Feb. 3; v. 271; p. 53.
O'Mara, Thomas C., Dalgety, New South Wales, Australia. Pumping apparatus. No. 1,358,845; Sept. 28; v. 278; p. 556.
O'Meara, Michael J., Anderson, Ind. Child's vehicle. No. 1,352,213; Sept. 7; v. 278; p. 95.
Omen, Charles A., Princeton, Ill. Automobile dump-body. No. 1,328,890; Jan. 27; v. 270; p. 505.
Omo Mfg. Co., The. (See Burr, H. M., and Ingraham, assignors.)
Onar, Fasiffo, J., Council, Ark. Motorcycle. No. 1,343,788; June 15; v. 275; p. 544.
Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Looper-operating mechanism for sewing-machines. No. 1,332,447; Mar. 2; v. 272; p. 52.
Onderdonk, Lansing, and A. J. Wohlpart, New York, N. Y., assignors to Union Special Machine Company, Chicago, Ill. Sewing-machine. No. 1,350,934; Aug. 24; v. 277; p. 716.
One Fire Asphalt Plant Company. (See West, Lawrence B., assignor.)
One Hand Auto Top Co. (See Kuns, Edward L., assignor.)
One Hand Auto Top Company. (See Dobmeier, Fred, assignor.)
Oneida Community. (See Ellis, Ferrand F., assignor.)
Oneida Community. (See Smith, Gerard W., assignor.)
O'Neil, Colin C., Sarnia, Ontario, Canada. Boiler blow-off valve. No. 1,340,790; May 18; v. 274; p. 535.
O'Neil, Dan, J. A. Holmquist, and J. W. Free, Woodlawn, assignors to Jones and Laughlin Steel Company, Pittsburgh, Pa. Machinery for removing superfluous spelter from galvanized articles. No. 1,338,152; Apr. 20; v. 273; p. 668.
O'Neil, James J., Pittston, Pa. Resilient wheel. No. 1,330,492; Feb. 10; v. 271; p. 246.
O'Neil, Maurice B., New Orleans, La. Card-index drawer. No. 1,358,389; Nov. 9; v. 280; p. 292.
O'Neil, Rodolph S., London, England. Apparatus for signaling and recording the course steered by vessels. No. 1,330,898; Feb. 17; v. 271; p. 391.
O'Neil, Rodolph S., London, England. Recording apparatus. No. 1,345,626; July 6; v. 276; p. 58.
O'Neil, Rodolph S., assignor to O'Neil's Recorder Syndicate Limited, London, England. Contact of electrical switch-gears. No. 1,351,963; Sept. 7; v. 278; p. 50.
O'Neill, Arthur M., assignor to J. D. Brown, Pittsburgh, Pa. Securing-bolt. No. 1,349,344; Aug. 10; v. 277; p. 288.
O'Neill, Bryan J., Peoria, Ill. Car-brake. No. 1,346,971; July 20; v. 276; p. 446.
O'Neill, David, Woodside, N. Y. Window-screen. No. 1,342,298; June 1; v. 275; p. 134.
O'Neill, Edward J. (See McElwee, J. E., and O'Neill.)
O'Neill, Frederick J., Dunedin, New Zealand. Electric-lamp lock. No. 1,331,355; Feb. 17; v. 271; p. 476.
O'Neill, Joseph C., Trenton, N. J. Sculling device. No. 1,357,111; Oct. 26; v. 279; p. 663.
O'Neill, Paul J., Detroit, Mich. Motorcycle. No. 1,337,946; Apr. 20; v. 273; p. 560.
O'Neill, Pearl, *et al.* (See Spencer, William H., assignor.)
O'Neil's Recorder Syndicate. (See O'Neil, Rodolph S., assignor.)
Onepiece Bifocal Lens Company. (See Bugbee, Lucian W., assignor.)
Onepiece Bifocal Lens Company. (See Conner, Charles W., assignor.) (Reissue.)
Onepiece Bifocal Lens Company. (See Pearson, John H., assignor.)
Ong, Nathaniel M., York, Pa. Flexible striking device for piano-actions. No. 1,342,029; June 1; v. 275; p. 81.
Onlee Headlight Controller Company. (See Reece, Earl J., assignor.)
Onsrud, Oscar, Chicago, Ill. Grinding-machine. No. 1,341,818; June 1; v. 275; p. 40.
Onsrud, Oscar, Chicago, Ill., assignor to The Marble and Shattuck Chair Company, Cleveland, Ohio. Dovetailing-machine. No. 1,352,620; Sept. 14; v. 278; p. 210.
Onstott, Jacob T., Yuba City, assignor to E. E. Sowell, Sacramento, Calif. Tractor cut-out plow. No. 1,360,014; Nov. 23; v. 280; p. 701.
Onufryk, Andrew, Rochester, N. Y. Dining-cutlery holder. No. 1,346,909; July 20; v. 276; p. 433.
Opgenorth, Henry, Sheboygan, Wis. Box for berries and the like. No. 1,334,046; Mar. 16; v. 272; p. 467.
Ophardt, John G. (See Bartley, J. C., and Ophardt.)
Opitz, Fred M., assignor to Perfex Radiator Company, Racine, Wis. Press or stamping-machine. No. 1,341,721; June 1; v. 275; p. 21.
Opitz, Herman, St. Cloud, Minn. Detachable button. No. 1,355,162; Oct. 12; v. 279; p. 194.
Oppel, John V. (See Ettler, John A., assignor.)
Oppenheim, David, New York, N. Y. Barber's chair for children. No. 1,341,192; May 25; v. 274; p. 684.
Oppenheim, Ferdinand S., New York, N. Y. Press for sealing boxes. No. 1,358,981; Nov. 16; v. 280; p. 454.
Oppenheimer, Alfred M., *et al.* (See Hoeflich, Llewellyn A., assignor.)
Oppenheimer, Edgar A., Chicago, Ill. Chuck for ribbon winding-machines. No. 1,352,376; Sept. 7; v. 278; p. 127.
Oppenheimer, Max, Heidelberg, Germany. Extension-trousers. No. 1,331,520; Feb. 24; v. 271; p. 527.
Oppenheimer, Ruth B., New Rochelle, N. Y. Brassière and chemise. No. 1,351,437; Aug. 31; v. 277; p. 878.
Oppenheimer, Ruth B., New Rochelle, N. Y. Brassière and drawers. No. 1,354,207; Sept. 28; v. 278; p. 630.
Oppenheimer, Solomon, Washington, D. C. Antiskidding device. No. 1,338,036; Apr. 27; v. 273; p. 646.
Opperman, Otto R., London, England. Manufacture of toothed bevel gear-wheels or crown-wheels. No. 1,352,021; Sept. 7; v. 278; p. 60.
Opsahl, Harry L., Minneapolis, Minn. Selective mount for cards or photographs. No. 1,353,846; Sept. 28; v. 278; p. 557.
Optische Signale Gesellschaft mit beschränkter Haftung. (See Hönig, Edgar, assignor.)
O'Quinn, Arthur M., Miami, Fla. Sizer and grader. No. 1,337,257; Apr. 20; v. 273; p. 429.
Oravec, John, Galeton, Pa. Freight-car. No. 1,344,248; June 22; v. 275; p. 697.
Orbin, George, assignor of one-third to C. M. Hays, Hoboken, Pa. Spring-cushion tire. No. 1,351,784; Sept. 7; v. 278; p. 13.
Orbom, Erick G., Williston, N. D. Universal joint. No. 1,335,913; Apr. 6; v. 273; p. 40.
Orcutt Automatic Train Control Company. (See La Count, Eldridge I., assignor.)
Orcutt Automatic Train Control Company. (See Prince, B. A., and La Count, assignors.)
Orcutt, C. Blake, New York, N. Y. Roller-towel cabinet. No. 1,353,416; Sept. 21; v. 278; p. 427.
Orcutt, Frederick C., Cummington, Mass. Combined comb and brush. No. 1,361,092; Dec. 7; v. 281; p. 22.
Ord, Harry J. (See Lockhart and Ord.)
Ording, Arthur J., Chicago, Ill. Electric heater for sealing-wax. No. 1,353,972; Sept. 28; v. 278; p. 582.
Ordnance Engineering Corporation. (See Bergman, Axel G., assignor.)
Ordnance Engineering Corporation. (See Jones, George A., assignor.)
Ordnance Engineering Corporation. (See Phipps, Walter H., assignor.)
O'Reilly, Thomas A., St. Louis, Mo. Bottle-holder. No. 1,340,974; May 25; v. 274; p. 641.
Oregon Woodenware Mfg. Co. (See Springer, Aaron M., assignor.)
Orem, Frederick S., Baltimore, Md. Air-strainer. No. 1,337,564; Apr. 20; v. 273; p. 487.
Oriel, William B., Grand Rapids, Mich. Steering means for vehicles. No. 1,359,912; Nov. 23; v. 280; p. 681.
Oringderff, Walter, Carmen, Okla. Chain-driven wrench. No. 1,356,555; Oct. 26; v. 279; p. 553.
Orkin, Jacob I., Boston, Mass. Toy. No. 1,360,676; Nov. 30; v. 280; p. 899.
Orlando, Paul, New York, N. Y. Wall construction and making same. No. 1,333,820; Mar. 16; v. 272; p. 423.
Orlopp, Platt M., Indianapolis, Ind. Auxiliary air-intake for internal-combustion engines. No. 1,340,734; May 18; v. 274; p. 534.
Ormandy, William R., London, assignor to Seay Syndicate Limited, Manchester, England. Refrigeration. No. 1,331,356; Feb. 17; v. 271; p. 476.
Ormaniec, John, and G. Lembas, Novinger, Mo. Garbage-box for wagons. No. 1,351,120; Aug. 31; v. 277; p. 814.
Ormes, Norman A., Pittsburgh, Pa. Barrel-cleat. No. 1,340,075; May 11; v. 274; p. 342.
Ormes, William R., Waltham, Mass. Combined punch and counter-sinking-machine. No. 1,342,865; June 8; v. 275; p. 299.
Ormiston, John A., Calgary, Alberta, assignor of one-third to A. G. Slaght and one-third to W. P. St. Charles, Toronto, Canada. Locomotive exhaust-nozzle. No. 1,329,093; Jan. 27; v. 270; p. 543.

Digitized by Google

Alphabetical list of patentees—Continued.

Ormsby, Donald D., assignor to Brown-Lipe-Chapin Co., Syracuse, N. Y. Compensating gearing. No. 1,352,910; Sept. 14; v. 278; p. 269.
Ormsby, Frank E., Chicago, Ill. Calipers or indicating-gage. No. 1,349,091; Aug. 10; v. 277; p. 238.
Ornston, Sidney J., New York, N. Y. Strap-seal. No. 1,345,806; July 6; v. 276; p. 94.
Ornston, Sidney J., New York, N. Y. Binding-strap tightener. No. 1,353,973; Sept. 28; v. 278; p. 582.
Orofino, Michele, Philadelphia, Pa. Garbage-can. No. 1,351,964; Sept. 7; v. 278; p. 50.
Oros, Michael, Seattle, Wash. Lamp-burner. No. 1,363,429; Dec. 28; v. 281; p. 620.
O'Rourke, Frank J., New York, N. Y. Douche-can. No. 1,347,398; July 20; v. 276; p. 529.
Orr, Claude L., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Six-wheel-truck construction for railways. No. 1,356,653; Oct. 26; v. 279; p. 573.
Orr, Elmore W., assignor of one-half to W. J. Anthony, Minneapolis, Minn. Pipe and flange wrench. No. 1,341,069; May 25; v. 274; p. 660.
Orr, James H., Philadelphia, Pa. Garbage-receptacle. No. 1,360,569; Nov. 30; v. 280; p. 878.
Orr, John L. (See Lyon, Harry A., assignor.)
Orr, Robert P., Albany, N. Y. Yoke or shoulder-weight carrier. No. 1,340,076; May 11; v. 274; p. 342.
Orr, Robert P., Albany, N. Y. Carrier-receptacle. No. 1,340,077; May 11; v. 274; p. 343.
Orr, William V., Cleveland, Ohio. Suction cleaning device. No. 1,342,592; June 8; v. 275; p. 245.
Orr, William V., Cleveland, Ohio. Vacuum cleaning-machine. No. 1,342,593; June 8; v. 275; p. 245.
Orr, William V., Cleveland, Ohio. Suction-sweeper. No. 1,346,972; July 20; v. 276; p. 446.
Orrefors Bruks Aktiebolag. (See Ahlin, Albert, assignor.)
Orres, Olaf B. (See Peterson, Peter J. A., assignor.)
Orrock, John W., Montreal, Quebec, Canada. Weather-cover for track-scales. No. 1,335,599; Mar. 30; v. 272; p. 864.
Orsbee Co., The. (See Kennedy, Joseph, assignor.)
Orsett, Coy, Belmont, Mass. Flying-machine. No. 1,362,436; Dec. 14; v. 281; p. 336.
Ortgier, George, East St. Louis, Ill. Hair-clipper. No. 1,360,570; Nov. 30; v. 280; p. 879.
Orth, Frank, Indiana Harbor, Ind. Brick and making the same. No. 1,363,264; Dec. 28; v. 281; p. 590.
Ortiz, Julien, Greenville, Del. Floating fortress. No. 1,350,667; Aug. 24; v. 277; p. 665.
Ortiz, Luis M., and L. E. Reed, Chama, N. Mex. Closure for condiment-holders. No. 1,354,333; Sept. 28; v. 278; p. 656.
Ortman, Ed, Kokomo, Ind. Auto-signal. No. 1,349,092; Aug. 10; v. 277; p. 238.
Ortman, William H., Milwaukee, Wis. Clothesline-support. No. 1,327,059; Jan. 6; v. 270; p. 84.
Orvin, Johan E., Christiania, Norway. Support-strap for reinforcement in steel-concrete girders. No. 1,342,349; June 1; v. 275; p. 144.
Ory, Gaston C., Paris, France. Scouring apparatus with sand-throw. No. 1,327,630; Jan. 13; v. 270; p. 201.
Orsel, Paul, New York, N. Y. Wrist or hand blotter. No. 1,345,872; July 6; v. 276; p. 107.
Osann, Frederick, Company. (See Olleo, Ralph, assignor.)
Osborn, Alden E., New York, N. Y. Reversible internal-combustion engine. No. 1,348,955; Aug. 10; v. 277; p. 211.
Osborn, Alden E., New York, N. Y. Internal-combustion engine and valve mechanism therefor. No. 1,354,334; Sept. 28; v. 278; p. 656.
Osborn, Alden E., New York, N. Y. Inverted-head-engine water-jacket. No. 1,354,335; Sept. 28; v. 278; p. 656.
Osborn, Alexander C., Jr., Clarksburg, W. Va. Furnace. No. 1,343,470; June 15; v. 275; p. 479.
Osborn Crew Manufacturing Company, The. (See La Ganke, Hugo C., assignor.)
Osborn, Edward T., Seattle, Wash. Cabinet shower-bath. No. 1,329,994; Feb. 3; v. 271; p. 121.
Osborn, Frank, assignor of one-half to G. W. Finnup, Garden City, Kans. Automatic temperature-regulator. No. 1,352,685; Sept. 14; v. 278; p. 224.
Osborn, Henry C. (See Parkes, Walter, assignor.)
Osborn, John F., Ludington, Mich. Combination phonograph and moving-picture machine. No. 1,328,189; Jan. 13; v. 270; p. 306.
Osborn Manufacturing Company, The. (See Carman, Edwin S., assignor.)
Osborn, Thomas, Mount Pleasant, Iowa. Spark-plug or radiator-leak finder. No. 1,335,078; Mar. 30; v. 272; p. 766.
Osborn, Warren M., assignor to Chicago Malleable Castings Company, Chicago, Ill. Tie-plate for rails. No. 1,334,673; Mar. 23; v. 272; p. 629.
Osborn, Warren M., assignor to Chicago Malleable Castings Company, Chicago, Ill. Rail-anchor tie-plate. No. 1,347,969; July 27; v. 276; p. 699.
Osborn, Warren M., assignor to Chicago Malleable Castings Company, Chicago, Ill. Railway-tie plate. No. 1,362,732; Dec. 21; v. 281; p. 446.
Osborn, William R., *et al.* (See Liebers, Meyer, assignor.)
Osborne, Clifton. (See Hardgrove, Burton C., assignor.)
Osborne Company, The. (See Weber, John B., assignor.)
Osborne, Ernest J., assignor of one-half to A. T. Bradlee, Brookline, Mass. Demountable rim. No. 1,340,244; May 18; v. 274; p. 432.
Osborne, Harold S., New York, N. Y., assignor to American Telephone and Telegraph Company. Signaling-circuits for electric railways. No. 1,358,777; Nov. 16; v. 280; p. 414.
Osborne, Harold S., assignor to American Telephone and Telegraph Company, New York, N. Y. Plural demodulation-circuits. No. 1,361,487; Dec. 7; v. 281; p. 103.
Osborne, Harold S., assignor to American Telephone and Telegraph Company, New York, N. Y. Plural modulation system. No. 1,361,488; Dec. 7; v. 281; p. 103.
Osborne, Harold S., New York, and R. D. Parker, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company. Composite signaling system. No. 1,361,486; Dec. 7; v. 281; p. 102.
Osborne, Harry E., Spokane, Wash. Rotary gas-engine. No. 1,350,880; Aug. 24; v. 277; p. 705.
Osborne, Jacob R., Clinton, Mo. Advertising apparatus. No. 1,338,523; Apr. 27; v. 273; p. 738.
Osborne, Randolph J., Chicago, Ill. Rug-drying device. No. 1,339,784; May 11; v. 274; p. 288.
Osborne, Raymond G., Los Angeles, Calif. Bituminous composition. No. 1,347,869; July 27; v. 276; p. 680.
Osbourn, Millard P., Philadelphia, Pa. Fluidal apparatus. No. 1,346,910; July 20; v. 276; p. 433.
Oschger, Joseph P., Chicago, Ill. Hydraulic elevator. No. 1,350,563; Aug. 24; v. 277; p. 646.
Osgood Bradley Car Company. (See Turner, Charles H., assignor.)
Osgood, Gilbert E., assignor of one-half to Viola J. Gosnell, Philadelphia, Pa. Expansion-bolt. No. 1,359,833; Nov. 23; v. 280; p. 665.
Osgood, John L., Buffalo, N. Y. Tool-handle. No. 1,355,685; Oct. 12; v. 279; p. 295.
Osgood, Richard P., Windsor, Vt. Electric hot-water heater. No. 1,356,881; Oct. 26; v. 279; p. 617.
Osgood, Robert C., assignor to Sullivan Machinery Company, Claremont, N. H. Truck-driving mechanism. No. 1,364,052; Dec. 28; v. 281; p. 741.
Osgood, Samuel W., assignor, by mesne assignments, to N. C. Kenner, Chicago, Ill. Producing flake graphite. No. 1,328,845; Jan. 27; v. 270; p. 496.
Osgood, Walter P., Malden, and W. E. Smith, assignors to Boston Machine Works Company, Lynn, Mass. Cementing-machine. No. 1,357,078; Oct. 26; v. 279; p. 656.
O'Shaughnessy, Patrick F., Brooklyn, N. Y. Vise attachment. No. 1,336,087; Apr. 6; v. 273; p. 72.
O'Shaughnessy, Patrick F., Brooklyn, N. Y. Fuel-heater for internal-combustion engines. No. 1,336,152; Apr. 6; v. 273; p. 85.
O'Shea, Dennis C., Chicago, Ill. Knitted garment. No. 1,328,545; Jan. 20; v. 270; p. 411.
O'Shea, Dennis C., Chicago, Ill. Knitted garment. No. 1,356,168; Oct. 19; v. 279; p. 481.
Oshige, Heikichi, Santa Barbara, Calif. Gas-saving and heat-retaining device. No. 1,353,265; Sept. 21; v. 278; p. 398.
Osius, Frederick J. (See Beech, Chester H., assignor.)
Osius, Frederick J., Racine, Wis. Machine-motor. No. 1,327,209; Jan. 6; v. 270; p. 62.
Osius, Frederick J., Racine, Wis. Sewing-machine motor. No. 1,327,210; Jan. 6; v. 270; p. 62.
Oslund, Charles H. (See Johnson, J. E., and Oslund.)
Osment, Harry L., Cartersville, Ga. Wrench. No. 1,334,392; Mar. 23; v. 272; p. 577.
Osmundsen, Conrad B., Chicago, Ill. Towing-cable. No. 1,345,873; July 6; v. 276; p. 107.
Osmundsen, Louis, Brooklyn, N. Y. Can-opener. No. 1,335,598; Mar. 30; v. 272; p. 864.
Osmundson, Henry, Slater, assignor to W. H. Osmundson, Perry, Iowa. Garden-seeder. No. 1,330,275; Feb. 10; v. 271; p. 205.
Osmundson, William H. (See Osmundson, Henry, assignor.)
Osol, Fritz E. (See Barron, W. L., and Osol.)
Osram-Robertson Lamp Works. (See Driver, Frederick P., assignor.)
Osram-Robertson Lamp Works. (See Durdle, Oswald, assignor.)
Ossa, Arturo A., Valparaiso, Chile. Extracting copper. No. 1,343,153; June 8; v. 275; p. 355.
Ost, Frederick A., Minneapolis, Minn. Carbureter. No. 1,347,052; July 20; v. 276; p. 462.
Ostanek, John, Chatham, Mich. Cultivator. No. 1,357,649; Nov. 2; v. 280; p. 84.
Ostdiek, Herman J., Minneapolis, Minn. Caliper-rule. No. 1,343,227; June 15; v. 275; p. 434.
Ostenberg, Pontus, Los Gatos, Calif. Generating power by internal combustion. No. 1,337,323; Apr. 20; v. 273; p. 442.
Ostenberg, Pontus, Santa Clara county, assignor to M. Adrian, San Jose, Calif. Internal-combustion engine. No. 1,341,152; May 25; v. 274; p. 676.
Ostenberg, Zeno, San Jose, Calif. Preparing solutions of cellulose. No. 1,355,415; Oct. 12; v. 279; p. 243.
Ostenberg, Zeno, San Jose, Calif., assignor to International Cellulose Company, Reno, Nev. Dissolving cellulose. No. 1,348,731; Aug. 3; v. 277; p. 116.
Ostendorf, Edward, Portland, Oreg. Automobile-jack. No. 1,327,060; Jan. 6; v. 270; p. 34.

Digitized by Google

Ostendorf, Otto L., Rochester, N. Y. Record-cabinet. No. 1,352,684; Sept. 14; v. 278; p. 224.
Oster, Herman W., and R. B. Tewksbury, assignors to The Oster Manufacturing Company, Cleveland, Ohio. Diestock. No. 1,361,400; Dec. 7; v. 281; p. 84.
Oster Manufacturing Company, The. (See Oster, H. W., and Tewksbury, assignors.)
Oster, William. (See Whitton, F. R., and Oster.)
Osterday, Karl O. K., deceased, Cincinnati, Ohio; P. Osterday, administrator. Life-saving device for aeroplanes. No. 1,332,143; Feb. 24; v. 271; p. 644.
Osterday, Pearl, administrator. (See Osterday, Karl O. K.)
Osterhage, Louis H., Vincennes, Ind. Automobile-tire tool. No. 1,336,916; Apr. 13; v. 273; p. 290.
Osterlund, Charles G., Mount Vernon, N. Y. Saw-sharpening machine. No. 1,330,606; Feb. 10; v. 271; p. 267.
Osterman, Joseph, Philadelphia, Pa. Key-cutting machine. No. 1,335,294; Mar. 30; v. 272; p. 807.
Ostertag, Melville M. (See Langos, Otto A., assignor.)
Osterwell, Sydney, assignor to L. Goldsmith & Son, Newark, N. J. Drawer-locking device. No. 1,343,742; June 15; v. 275; p. 534.
Ostmann, Louis W., St. Charles, Mo. Cushion-tire. No. 1,343,154; June 8; v. 275; p. 355.
Ostrander, Allen E., Ridgewood, N. J., assignor to American Car and Foundry Company, St. Louis, Mo. Tank-car. No. 1,336,439; Apr. 13; v. 273; p. 198.
Ostrander, Allen E., Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y. General-service car. No. 1,354,915; Oct. 5; v. 279; p. 93.
Ostrander, Charles W., Winsted, Conn. Adjustable caster. No. 1,333,441; Mar. 9; v. 272; p. 291.
Ostrander, Louise M. (See Kinney, Charles, assignor.)
Ostrander, Samuel H., Olean, N. Y. Working barrel. No. 1,334,786; Mar. 23; v. 272; p. 652.
Ostrander, W. R., & Company. (See Behrens, Walter A., assignor.)
Ostrander, W. R., & Company. (See Brockett, Charles W., assignor.)
Ostromislensky, Iwan, Petrograd, Russia, assignor, by mesne assignments, to New York Belting and Packing Company. Vulcanizing rubber and product obtained thereby. No. 1,342,457; June 8; v. 275; p. 218.
Ostromislensky, Iwan, Petrograd, Russia, assignor, by mesne assignments, to New York Belting and Packing Company. Vulcanizing rubber and product obtained thereby. No. 1,342,458; June 8; v. 275; p. 218.
Ostroski, Michael, Coniston, Ontario, Canada. Scaffold. No. 1,349,093; Aug. 10; v. 277; p. 238.
Ostrowiecki, Marcin. (See Wanielista and Ostrowiecki.)
Ostrowski, Joseph A., Milwaukee, Wis. Striking mechanism for time-clocks. No. 1,361,093; Dec. 7; v. 281; p. 22.
Ostruk, Paul, New York, N. Y. Collapsible automobile-top and locking device therefor. No. 1,334,313; Mar. 23; v. 272; p. 562.
Ostul, Martin J., Ghent, Minn. End-board for wagon-boxes. No. 1,355,253; Oct. 12; v. 279; p. 212.
Ostwald, Walter, Grossbothen, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Obtaining by-products, particularly nitrogen compounds from blast-furnaces. No. 1,344,770; June 29; v. 275; p. 866.
O'Sullivan, Thomas. (See White, F. B., and O'Sullivan.)
Osze, Sandor, Martins Creek, Pa. Mechanism for ascension and descension. No. 1,358,325; Nov. 9; v. 280; p. 278.
Otis, Albert N., Schenectady, N. Y., assignor to General Electric Company. Temperature-controller. No. 1,353,665; Sept. 21; v. 278; p. 478.
Otis Elevator Company. (See Furlow, Floyd C., assignor.)
Otis Elevator Company. (See Gale, Ernest L., Sr., assignor.)
Otis Elevator Company. (See Larson, David C., assignor.)
Otis-Flagg Corporation. (See Cooper, Isidor, assignor.)
Otis, John F., Oswego, N. Y. Steam-generator. No. 1,355,686; Oct. 12; v. 279; p. 296.
Otis, John F., Oswego, N. Y. Steam-generator. No. 1,355,687; Oct. 12; v. 279; p. 296.
Otis, Spencer, Chicago, Ill. Railway-car-roof construction. No. 1,340,667; May 18; v. 274; p. 512.
Otis, Spencer, Chicago, Ill., assignor to National Dump Car Company. Railway-car. No. 1,348,515; Aug. 3; v. 277; p. 74.
O'Toole, Edward, Gary, W. Va. Slabbing and loading machine. No. 1,336,440; Apr. 13; v. 273; p. 198.
O'Toole, William, Lorain, Ohio. Signal-post. No. 1,337,947; Apr. 20; v. 273; p. 560.
Ott, Frederick, Norristown, assignor to A. T. Baker & Company, Manayunk, Pa. Woven pile fabric. No. 1,327,683; Jan. 13; v. 270; p. 211.
Ott, Frederick, Norristown, assignor to A. T. Baker & Company, Manayunk, Pa. Woven pile fabric. No. 1,327,684; Jan. 13; v. 270; p. 212.
Ott, Harvey N., and F. H. Bufton, assignors to Spencer Lens Co., Buffalo, N. Y. Projection apparatus. No. 1,341,665; June 1; v. 275; p. 10.
Ott, Harvey N., and F. H. Bufton, assignors to Spencer Lens Company, Buffalo, N. Y. Projection apparatus. No. 1,341,666; June 1; v. 275; p. 10.
Ott, Harvey N., and F. H. Bufton, assignors to Spencer Lens Co., Buffalo, N. Y. Adjusting means for projection objectives. No. 1,341,667; June 1; v. 275; p. 10.
Ott, Harvey N., and C. W. Barton, assignors to Spencer Lens Co., Buffalo, N. Y. Microscope. No. 1,360,571; Nov. 30; v. 280; p. 879.
Ottem, Leonard A., Osnabrock, N. D. Water container or receptacle. No. 1,356,085; Oct. 19; v. 279; p. 414.
Otten, Anthony J. (See Stenzel, Herman, assignor.)
Otterson, George W., Seattle, Wash. Apparatus for removing sediment from catch-basins of sewers. No. 1,327,211; Jan. 6; v. 270; p. 62.
Otterson, George W., Seattle, Wash. Traveling apparatus for cleaning sewer-basins. No. 1,343,471; June 15; v. 275; p. 480.
Otterson, George W., Seattle, Wash. Settling-bed. No. 1,344,710; June 29; v. 275; p. 854.
Otterson, Oscar, Butler, Pa. Making reamers. No. 1,341,436; May 25; v. 274; p. 731.
Otto, A. and W., assignors of one-half to Francis E. Scott and Glenn Butler, Kansas City, Mo. Compressed-air automatic oil and water pump. No. 1,358,238; Nov. 9; v. 280; p. 292.
Otto, Albert and W., assignors of one-half to F. E. Scott and G. Butler, Kansas City, Mo. Air and gas valve. No. 1,339,665; May 11; v. 274; p. 266.
Otto, Arthur J., Milwaukee, Wis. Thermostat. No. 1,337,529; Apr. 20; v. 273; p. 480.
Otto, Arthur J., assignor to Johnson Service Company, Milwaukee, Wis. High-temperature thermostat. No. 1,337,367; Apr. 20; v. 273; p. 450.
Otto, Frank J., Detroit, Mich. Electric mail-indicator. No. 1,336,652; Apr. 13; v. 273; p. 239.
Otto, Martin H., assignor to Wabash Screen Door Co., Minneapolis, Minn. Combination screen and storm door. No. 1,329,427; Feb. 3; v. 271; p. 16.
Otto, Matt, assignor to The National Lime & Stone Co., Carey, Ohio. Shaker-screen. No. 1,358,103; Nov. 9; v. 280; p. 234.
Otto, Maximilian J., New York, N. Y. Portable heating-stove. No. 1,343,578; June 15; v. 275; p. 502.
Otto, William. (See Otto, Albert and W.)
Ottumwa Box Car Loader Co. (See Hunt, William E., assignor.)
Otwell, Mary H. V., Carlinville, Ill. Sanitary handkerchief-container. No. 1,331,666; Feb. 24; v. 271; p. 555.
Otwell, Mary M. V., Carlinville, Ill. Sanitary handkerchief-container. No. 1,344,927; June 29; v. 275; p. 896.
Otwell, Ralph B., Detroit, Mich. Traction-wheel fender. No. 1,363,669; Dec. 28; v. 281; p. 667.
Oubridge, William A., Coventry, England. Hand-truck for lifting and transporting loads. No. 1,329,995; Feb. 3; v. 271; p. 121.
Oubridge, William A., Coventry, England. Piston-ring-hammering machine. No. 1,336,153; Apr. 6; v. 273; p. 85.
Ouellett, Thomas, Central Falls, R. I. Saw-frame. No. 1,351,121; Aug. 31; v. 277; p. 815.
Ouellette, Eddie J., Anaconda, Mont. Sieve. No. 1,361,772; Dec. 7; v. 281; p. 158.
Ouellette, Jean B., New Bedford, Mass. Loom attachment. No. 1,347,399; July 20; v. 276; p. 529.
Ouren, Anton O. (See Wilson, Ervon J., assignor.)
Oursler, Sam R. (See Oursler, William C., assignor.)
Oursler, William C., assignor to S. R. Oursler, Memphis, Tenn. Automatic cleaning device for spark-plugs. No. 1,343,743; June 15; v. 275; p. 535.
Outcalt, Andrew S., Ironton, Wis. Running-gear for wagons and automobiles. No. 1,352,141; Sept. 7; v. 278; p. 82.
Outerbridge, Alexander E., Jr., Philadelphia, Pa. Sand core for molds for casting metals and manufacture of such cores. (Reissue.) No. 14,828; Mar. 30; v. 272; p. 887.
Outlook Company, The. (See Beitman, Albert B., assignor.)
Outlaw, George E., Vaughn, N. Mex. Draft-rigging. No. 1,361,543; Dec. 7; v. 281; p. 115.
Ouzoun-Boghossian, Sissak K., Washington, D. C. Workbench for watchmakers and jewelers. No. 1,328,891; Jan. 27; v. 270; p. 505.
Ouzoun-Boghossian, Sissak K., Washington, D. C. Watch-roller remover. No. 1,331,851; Feb. 24; v. 271; p. 590.
Ouzoun-Boghossian, Sissak K., Washington, D. C. Water-mixer. No. 1,336,917; Apr. 13; v. 273; p. 290.
Ovenshire, Charles E., assignor to Minneapolis Knitting Works, Minneapolis, Minn. Child's undergarment. No. 1,347,400; July 20; v. 276; p. 529.
Overaas, Nils, Tonsbergfjordens, Befæstninger, Norway. Apparatus for determining the elevation and distance of an aerial mark from a battery. No. 1,339,130; May 4; v. 274; p. 90.
Overhagh, Donald C., Chicago, Ill. Connector for armored conductors. No. 1,328,290; Jan. 20; v. 270; p. 362.
Overbeck, William J., Cincinnati, Ohio. Treatment of candles and the like and the product obtained thereby. No. 1,327,113; Jan. 6; v. 270; p. 44.
Overbeck, William J., Cincinnati, Ohio. Reduction of hydrogenated oil. No. 1,329,845; Feb. 3; v. 271; p. 94.
Overbury, Frederick C., Montclair, N. J., assignor to The Flintkote Company, Boston, Mass. Making shingle-strips. No. 1,340,402; May 18; v. 274; p. 462.

Digitized by Google

Alphabetical list of patentees—Continued.

Overbury, Frederick C., Rutherford, N. J., assignor to Flintkote Manufacturing Company, Boston, Mass. Forming roofing-strips. No. 1,345,099; June 29; v. 275; p. 928.
Overbury, Frederick C., Hillsdale, N. J., assignor, by mesne assignments, to The Flintkote Company, Boston, Mass. Roof-covering. No. 1,345,627; July 6; v. 276; p. 58.
Overgaard, Christen, Skovshoved, near Copenhagen, Denmark. Lathe. No. 1,328,962; Jan. 27; v. 270; p. 518.
Overlin, William S., Portland, Oreg. Lumber-truck. No. 1,349,292; Aug. 10; v. 277; p. 278.
Overlin, William S., Portland, Oreg. Means for electrically marking upon metals. No. 1,350,734; Aug. 24; v. 277; p. 679.
Overlin, William S., Oswego, Oreg., assignor, by mesne assignments, to C. A. Oveson, Chicago, Ill. Saddle-cantle machine. No. 1,357,203; Oct. 26; v. 279; p. 680.
Overman, Max C., New York, N. Y. Tire. No. 1,340,556; May 18; v. 274; p. 491.
Overman, William J., Boston, Mass., assignor to General Electric Company. Control for car-circuits. No. 1,362,346; Dec. 14; v. 281; p. 319.
Overmeyer, Fred, Toledo, Ohio. Puncture-tester. No. 1,327,251; Jan. 6; v. 270; p. 70.
Overmyer, Charles G., assignor of one-half to S. J. Farrell, Hartford City, Ind. Caster. No. 1,338,249; Apr. 27; v. 273; p. 686.
Oversmith, Clarence D., Lima, Ohio. Controlling mechanism for electric switches. No. 1,337,022; Apr. 13; v. 273; p. 310.
Oversmith, Earl G. (See Hansgen and Oversmith.)
Oversmith, Elmer H., Buffalo, N. Y., assignor to The Buffalo Truck and Tractor Corporation, Buffalo, N. Y. Motor-vehicle. No. 1,350,668; Aug. 24; v. 277; p. 666.
Overstreet, Frank A., Fort Sumner, N. Mex. Windmill-operated generator. No. 1,347,970; July 27; v. 276; p. 699.
Overton, Eva W., Patchogue, N. Y. Hand-warmer. No. 1,333,872; Mar. 16; v. 272; p. 433.
Overtree, Augustus, assignor to Illuminated Taillight Company, Indianapolis, Ind. Auto tail and license-number light. No. 1,356,494; Oct. 19; v. 279; p. 494.
Ovestrud, Melvin, Stillwater, Minn., assignor of one-half to Twin City Forge & Foundry Company. Carrier. No. 1,333,821; Mar. 16; v. 272; p. 424.
Oveson, Carl A. (See Overlin, William S., assignor.)
Owen, Albert J., *et al.* (See Crick, Arthur, assignor.)
Owen, Archie E., Malcom, Iowa. Pump-jack. No. 1,349,094; Aug. 10; v. 277; p. 238.
Owen, Clement M., Warrington, England. Liming and other tanning operations upon hides or skins. No. 1,342,866; June 8; v. 275; p. 299.
Owen, Donham, Berkeley, Calif. Adjustable school-disk. No. 1,350,669; Aug. 24; v. 277; p. 666.
Owen, Frederick L., Boston, Mass. Garment-hanger. No. 1,336,375; Apr. 6; v. 273; p. 127.
Owen, George A., Hartford, Conn. Hydrant. No. 1,360,436; Nov. 30; v. 280; p. 852.
Owen, Harry E., Muncie, Ind. Power-transmission device. No. 1,353,179; Sept. 21; v. 278; p. 381.
Owen, Hugh J. (See Gower, Owen, and Cox.)
Owen, John E. (See Van Camp, John, assignor.)
Owen, John E., Vancouver, British Columbia, Canada. Game. No. 1,334,630; Mar. 23; v. 272; p. 622.
Owen, John S., *et al.* (See Harmon, Alton D., assignor.)
Owen, Ole A., New York, N. Y. Motion-picture film. No. 1,347,053; July 20; v. 276; p. 462.
Owen, Richard B. (See Colter, R. L., and Rioux, assignors.)
Owen, Richard H., Lexington, N. C. Pliers. No. 1,341,193; May 25; v. 274; p. 684.
Owen, William R., Utica, N. Y. Movable pocket for registers. No. 1,349,527; Aug. 10; v. 277; p. 325.
Owen, William W., Elgin, assignor to Automatic Electric Company, Chicago, Ill. Measured-service telephone system. No. 1,356,654; Oct. 26; v. 279; p. 573.
Owen, William W., Elgin, assignor to Automatic Electric Company, Chicago, Ill. Measured-service telephone system. No. 1,356,655; Oct. 26; v. 279; p. 573.
Owen, William W., Elgin, Ill., assignor to Automatic Electric Company, Chicago, Ill. Measured-service telephone system. No. 1,359,913; Nov. 23; v. 280; p. 681.
Owens Bottle Company, The. (See Bragg, Thomas A., assignor.)
Owens Bottle Machine Company, The. (See Graham, J. B., and La France, assignors.)
Owens Bottle Machine Company, The. (See Graham, Joseph B., assignor.)
Owens Bottle Machine Company, The. (See La France, Richard, assignor.)
Owens Bottle Machine Company, The. (See Lentz, John M., assignor.)
Owens Bottle Machine Company, The. (See Niver, Raymond W., assignor.)
Owens Bottle Machine Company, The. (See Owens, Michael J., assignor.)
Owens Bottle Machine Company. (See Rule, John F., assignor.)
Owens Bottle Machine Company, The. (See Soubier, Leonard D., assignor.)
Owens Bottle Machine Company, The. (See Young, Glenn, assignor.)
Owens Bottling Machine Company, The. (See La France, Richard, assignor.)
Owens, E. L., *et al.* (See Krickel, Louis H., assignor.)
Owens, Herbert B., assignor of one-half to S. Haunsperger, Alton, Ill. Automobile-light-globe holder. No. 1,332,517; Mar. 2; v. 272; p. 66.
Owens, John B., Metuchen, N. J. Method and means for firing tunnel-kilns. No. 1,355,906; Oct. 19; v. 279; p. 379.
Owens, John B., Metuchen, N. J. Firing tunnel-kilns and convertible furnace therefor. No. 1,356,396; Oct. 19; v. 279; p. 476.
Owens, John B., Metuchen, N. J. Firing means for tunnel-kilns. No. 1,356,397; Oct. 19; v. 279; p. 476.
Owens, John B., Zanesville, Ohio. Multiplex-tunnel kiln. No. 1,356,398; Oct. 19; v. 279; p. 476.
Owens, Marshall M. (See Shearer, Edward J., and Owens.)
Owens, Michael J., assignor to The Libby-Owens Sheet Glass Company, Toledo, Ohio. Furnace for continuous sheet-glass drawing. No. 1,327,405; Jan. 6; v. 270; p. 97.
Owens, Michael J., assignor to Libbey-Owens Sheet Glass Company, Toledo, Ohio. Making sheet-glass. No. 1,345,628; July 6; v. 276; p. 59.
Owens, Michael J., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Means for making sheet-glass. No. 1,345,629; July 6; v. 276; p. 59.
Owens, Michael J., assignor to The Owens Bottle Machine Company, Toledo, Ohio. Means for transferring hot glass. No. 1,350,464; Aug. 24; v. 277; p. 626.
Owens, Percy R., Mount Kisco, N. Y. Electrical control system. No. 1,350,382; Aug. 24; v. 277; p. 609.
Owens-Stark Manufacturing Company. (See Stark, John R., assignor.)
Owens, Thomas S., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Method of and apparatus for making sheet-glass. No. 1,358,390; Nov. 9; v. 280; p. 260.
Owens, William A., assignor of one-half to Lungstras Dyeing & Cleaning Company, St. Louis, Mo. Repairing turned shoes. (Reissue.) No. 14,811; Mar. 2; v. 272; p. 134.
Owens, William L., Scottdale, Pa. Coördinator. No. 1,340,623; May 18; v. 274; p. 504.
Owl Supply Company. (See Averill, William H., assignor.)
Owsiak, Stephen, Chicago, Ill. Fishing-signal. No. 1,349,528; Aug. 10; v. 277; p. 325.
Oxley, Herbert D., Chicago, Ill. Press for salt blocks and the like. No. 1,336,579; Apr. 13; v. 273; p. 225.
Oxley, Walter T., Fergus Falls, Minn., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic-printing machine. No. 1,332,854; Mar. 2; v. 272; p. 129.
Oxweld Acetylene Company. (See Braden, R. D., and Grant, assignors.)
Ozerowicz, Alexander, Detroit, Mich. Mechanic's tool. No. 1,341,757; June 1; v. 275; p. 29.
Ozlek, Morris, Philadelphia, Pa. Lamp-support. No. 1,330,886; Feb. 10; v. 271; p. 217.
Ozlek, Morris, Philadelphia, Pa. Head construction for electric lamps. No. 1,355,163; Oct. 12; v. 279; p. 194.
Ozlek, Morris, Philadelphia, Pa. Cluster-top for lamps. No. 1,355,164; Oct. 12; v. 279; p. 194.
Ozone Company of America. (See Leggett, Ross M., assignor.)
Ozone Company of America. (See Lindemann, William G., assignor.)
P & M Company, The. (See Berkeley, Lawrence J., assignor.)
P & M Company, The. (See Poor, Fred A., assignor.)
P. & M. Company, The. (See Warr, Harold G., assignor.)
P. R. B. Pump Company. (See Price, Stephen C., assignor.)
Paar, Henry, Canton, assignor of one-third to C. McGranahan, Youngstown, Ohio. Cushion-horseshoe. No. 1,338,584; Apr. 27; v. 273; p. 749.
Pabich, John, Mount Carmel, Pa. Ship-protector. No. 1,347,120; July 20; v. 276; p. 474.
Paca, William S., Oil City, Pa., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Associated-switchboard telephone system. No. 1,353,065; Sept. 14; v. 278; p. 299.
Pace, Carl D., Oxford, assignor of one-half to J. C. Wheeler, Anniston, Ala. Stump-puller. No. 1,339,666; May 11; v. 274; p. 266.
Pace, Elmira, Louisville, Ky. Toilet article. No. 1,362,892; Dec. 21; v. 281; p. 477.
Pace, Jefferson D., assignor to Acme Oil & Drill Co., Inc., Shreveport, La. Well-drilling bit for oil, water, or gas. No. 1,351,003; Aug. 24; v. 277; p. 729.
Pachali, Theodor, Sr., Reading, Pa. Rupture-pad. No. 1,337,790; Apr. 20; v. 273; p. 580.
Pache, Auguste, New York, N. Y. Spark-plug-controlling device for internal-combustion engines. No. 1,358,459; Nov. 9; v. 280; p. 306.
Pacific Camera Company. (See De Lisle, Otto R., assignor.)
Pacific Car & Foundry Co. (See Falco, Frank T., assignor.)

Digitized by Google

Pacific Car & Foundry Co. (See Jarvis, Herbert C., assignor.)
Pacific Coast Borax Company. (See Jacobi, Karl J., assignor.)
Pacific R & H Chemical Corporation, The. (See Cuyler, E. H., and Patterson, assignors.)
Pacific Radiator Shield Co. (See Parmelee, Charles H., assignor.)
Pacifico, James, Denver, Colo. Gun. No. 1,340,791; May 18; v. 274; p. 535.
Pacifico, Tary, Buffalo, N. Y. Glove. No. 1,329,996; Feb. 3; v. 271; p. 122.
Pacilli, Leonardo, Copper Cliff, Ontario, Canada. Recoil-operated ordnance. No. 1,332,060; Feb. 24; v. 271; p. 629.
Pack, Charles, assignor to Doehler Die Casting Company, Brooklyn, N. Y. Manufacture of devices for relative rotation. No. 1,363,344; Dec. 28; v. 281; p. 605.
Pack, Charles, Brooklyn, and H. H. Doehler, Toledo, Ohio, assignors to Doehler Die-Casting Company, Brooklyn, N. Y. Bearing. No. 1,333,336; Mar. 9; v. 272; p. 272.
Pack, Charles, and H. H. Doehler, assignors to Doehler Die Casting Company, Brooklyn, N. Y. Making bearings. No. 1,333,337; Mar. 9; v. 272; p. 272.
Pack, Rufus F., Cedar Vale, Kans. Fluid-pressure motor. No. 1,355,688; Oct. 12; v. 279; p. 296.
Pack, Samuel B. (See Moore, D. P., and Pack.)
Pack, Samuel B., Washington, D. C., assignor to Packmore Manufacturing Company. Portable cleaning-machines. No. 1,339,280; May 4; v. 274; p. 116.
Packard, James A., assignor to Packard Stoker Corporation of America, Milwaukee, Wis. Furnace-grate. No. 1,344,144; June 22; v. 275; p. 678.
Package Machinery Company. (See Smith, Elmer L., assignor.)
Packard Motor Car Company. (See Beall, Frank F., assignor.)
Packard Motor Car Company. (See Belden, Edward H., assignor.)
Packard Motor Car Company. (See Church, Harold D., assignor.)
Packard Motor Car Company. (See Cooper, Erwin C., assignor.)
Packard Motor Car Company. (See Dewey, Frank H., assignor.)
Packard Motor Car Company. (See Druar, Frank J., assignor.)
Packard Motor Car Company. (See Gabelman, Charles, assignor.)
Packard Motor Car Company. (See Huff, Russell, assignor.)
Packard Motor Car Company. (See Hunt, Ormond E., assignor.)
Packard Motor Car Company. (See Lipps, Evrah C., assignor.)
Packard Motor Car Company. (See McCain, George L., assignor.)
Packard Motor Car Company. (See Potter, Horace W., assignor.)
Packard Motor Car Company. (See Tibbetts, Milton, assignor.)
Packard Motor Car Company. (See Vincent, Jesse G., assignor.)
Packard Stoker Corporation of America. (See Packard, James A., assignor.)
Packard, William F., Brockton, Mass. Preparing and using box-toes in boots and shoes. No. 1,330,449; Feb. 10; v. 271; p. 287.
Packard, William F., Brockton, Mass. Machine for impregnating box-toe material for boots and shoes. No. 1,359,191; Nov. 16; v. 280; p. 493.
Packer, Alfred H., Pittsburgh, and F. H. Patten, Edgewood Park, Pa., assignors to Westinghouse Electric and Manufacturing Company. Electromagnetic device. No. 1,354,208; Sept. 28; v. 278; p. 630.
Packer, John H., Liberty, Mo. Oil-filter. No. 1,346,244; July 13; v. 276; p. 242.
Packer's Machinery & Equipment Company. (See Nayer, Carl F., assignor.)
Packheiser, Joseph A., Picher, Okla. Elevator-belt punch. No. 1,345,395; July 6; v. 276; p. 13.
Packmore Manufacturing Company. (See Moore, D. P., and Pack, assignors.)
Packmore Manufacturing Company. (See Pack, Samuel B., assignor.)
Pacz, Aladar, Cleveland, Ohio, assignor to General Electric Company. Introducing materials into molten metal. No. 1,337,093; Apr. 13; v. 273; p. 324.
Paddack, Simon D., assignor to The Aeolian Company, Brooklyn, N. Y. Acoustic diaphragm. No. 1,356,399; Oct. 19; v. 279; p. 477.
Paddack, Truman G., Wyoming, assignor to The Stearns and Foster Company, Lockland, Ohio. Upholstery-fold. No. 1,339,281; May 4; v. 274; p. 116.
Padden, Patrick W., Maumee, Ohio. Swing. No. 1,346,973; July 20; v. 276; p. 446.
Padden, Robert W., Kansas City, Mo. Shoe-heel. No. 1,346,841; July 20; v. 276; p. 419.
Padden, William H. (See Lindberg, Albin O., assignor.)
Paddock, Joseph W., Pana, Ill. Protective check-writing attachment for typewriters. No. 1,332,632; Mar. 2; v. 272; p. 88.
Paddon, Wadham, L., Gosport, England. Sleigh-carrier. No. 1,339,861; May 11; v. 274; p. 303.
Pade, George V., and C. T. Neitzel, assignors to American Art Needle Company, Dallas, Tex. Needle for hand embroidery and similar work. (Reissue.) No. 14,097; Nov. 30; v. 280; p. 962.
Padgett, Claude M., assignor of one-half to V. D. Tennyson, Chicago, Ill. Self-heating soldering-tool. No. 1,333,590; Mar. 9; v. 272; p. 320.
Padgett, George H., Otisville, N. Y. Transmission-case. No. 1,351,680; Aug. 31; v. 277; p. 926.
Padgett, George H., Otisville, N. Y. Muffler-cover. No. 1,360,311; Nov. 30; v. 280; p. 828.
Padgette, Philip M., Newport News, Va. Digger. No. 1,362,035; Dec. 14; v. 281; p. 258.
Paesano, Vincenzo, Isola Siri Superiore, Italy, assignor of one-half to P. Di Milla, Boston, Mass. System for developing power by tidal movement. No. 1,348,313; Aug. 3; v. 277; p. 37.
Paff, Charles, New York, N. Y. Metallic tie. No. 1,330,276; Feb. 10; v. 271; p. 205.
Paff, Charles, New York, N. Y. Rail-clip. No. 1,330,277; Feb. 10; v. 271; p. 205.
Paff, Charles, New York, N. Y. Retaining-wall for embankments. No. 1,349,166; Aug. 10; v. 277; p. 253.
Page, Adolphus L., Rochester, N. Y., assignor of two-fifths to S. Rubin, Baltimore, Md. Tinning aluminum. No. 1,339,710; May 11; v. 274; p. 274.
Page, Albert A., East Haven, assignor to Sargent & Company, New Haven, Conn. Panic-bolt mechanism. No. 1,346,670; July 13; v. 276; p. 327.
Page, Arthur A., New York, N. Y. Tracking device. No. 1,337,530; Apr. 20; v. 278; p. 481.
Page, B. E., and C. C. Henderson, Spring Valley, Minn. Device for twisting bag-ties. No. 1,354,836; Oct. 5; v. 279; p. 78.
Page, Clarence R. (See Page, Edwin A., and C. R.)
Page, Edwin A., and C. R., Youngstown, Ohio. Automobile-control device. No. 1,342,060; June 1; v. 275; p. 88.
Page, Fred M. (See Gregware, Harvey L., assignor.)
Page, Frederick H., assignor to Handley Page Limited, London, England. Connection for members of aircraft-frames. No. 1,328,963; Jan. 27; v. 270; p. 519.
Page, Frederick H., assignor to Handley Page Limited, London, England. Detachable wings for aircraft. No. 1,329,846; Feb. 3; v. 271; p. 94.
Page, Frederick H., London, assignor to Handley Page Limited, Cricklewood, London, England. Means for supplying fuel to internal-combustion engines. No. 1,329,997; Feb. 3; v. 271; p. 122.
Page, Frederick H., assignor to Handley Page Limited, London, England. Undercarriage for aircraft. No. 1,332,567; Mar. 2; v. 272; p. 75.
Page, Frederick H., assignor to Handley Page Limited, London, England. Wing and similar member of aircraft. No. 1,353,666; Sept. 21; v. 278; p. 478.
Page, Frederick H., London, assignor to Handley Page Limited, Cricklewood, London, England. Mechanism for releasing bombs or other articles from aircraft. No. 1,357,650; Nov. 2; v. 280; p. 85.
Page, George E., assignor of one-half to P. C. Zaenglein, Rochester, N. Y. Machine for pasteurizing milk and other liquids. No. 1,352,214; Sept. 7; v. 278; p. 95.
Page, George H., Richmond, Mo. Lifting-jack. No. 1,327,685; Jan. 13; v. 270; p. 212.
Page, George O., Cleveland, Ohio, assignor to American Steel and Wire Company of New Jersey. Hook and wire attaching machine. No. 1,333,994; Mar. 16; v. 272; p. 456.
Page, Handley, Limited. (See Page, Frederick H., assignor.)
Page, Harry W. (See Edwards, William D., assignor.)
Page, James H. B., Vidalia, Ga. Advertising device. No. 1,330,134; Feb. 10; v. 271; p. 179.
Page, John W., Chicago, Ill. Excavating-shovel. No. 1,328,013; Jan. 13; v. 270; p. 273.
Page, Louis A., assignor of one-half to E. B. Evans, Providence, R. I. Safety-catch. No. 1,348,314; Aug. 3; v. 277; p. 37.
Page, Rescue B., Los Angeles, Calif. Folding bed. No. 1,340,735; May 18; v. 274; p. 525.
Page, Rescue B., Los Angeles, Calif. Folding bed. No. 1,352,525; Sept. 14; v. 278; p. 191.
Page, Robert R., Brooklyn, N. Y. Etching apparatus. No. 1,340,975; May 25; v. 274; p. 642.
Page, Samuel D., Des Moines, Iowa. Cover for auction-sales records and the like. No. 1,345,329; June 29; v. 275; p. 973.
Pageau, Louis, Montreal, Quebec, Canada. Boot or shoe. No. 1,327,772; Jan. 13; v. 270; p. 228.
Pagel, William F., Sycamore, Ill. Torch. No. 1,343,403; June 15; v. 275; p. 467.
Pagenhardt, Leonard C., Westernport, Md. Shutter-adjusting device. No. 1,328,759; Jan. 20; v. 270; p. 450.
Paggi, Charles. (See Robichaux, S., and Paggi.)
Paige, Arthur E., Philadelphia, Pa. Mechanism for making bifocal lenses. No. 1,347,653; July 27; v. 276; p. 636.
Paige, Arthur E., Philadelphia, Pa. Multifocal optical element and method and means for making same. No. 1,351,785; Sept. 7; v. 278; p. 14.

Digitized by Google

Alphabetical list of patentees—Continued.

Paige, Arthur E., Philadelphia, Pa. Multifocal optical element and method and means for making the same. (Reissue.) No. 15,007; Dec. 14; v. 281; p. 366.
Paige, Jason, Chicago, Ill. Track-switch. No. 1,329,007; Jan. 27; v. 270; p. 527.
Pain, William, Little Rock, assignor of one-third to D. Roppo, Seattle, and one-third to J. E. Waldrip, Olympia, Wash. Ribbon-inking attachment for typewriters. No. 1,337,980; Apr. 20; v. 273; p. 567.
Paine Company. (See Paine and Williams, assignors.)
Paine, Henry W., Eagle Grove, Iowa. Lifting-tool for explosion-engine-valve rocker-arms. No. 1,357,817; Nov. 2; v. 280; p. 118.
Paine, Mathew H., Glenellyn, and W. S. Williams, Chicago, Ill., assignors to Paine Company. Box-hanger. No. 1,326,959; Jan. 6; v. 270; p. 15.
Paintmaier, Sabastian, Oxnard, Calif. Automobile-signal. No. 1,332,748; Mar. 2; v. 272; p. 110.
Paiste, H. T., Company. (See Paiste, Henry T., assignor.)
Paiste, Henry T., assignor to H. T. Paiste Company, Philadelphia, Pa. Fuse-plug. No. 1,350,111; Aug. 17; v. 277; p. 510.
Pajalic, Antonio, Dearborn, Mich. Breather for gas-engines. No. 1,352,022; Sept. 7; v. 278; p. 60.
Pajeau, Charles H., Evanston, Ill. Wheeled toy. No. 1,333,216; Mar. 9; v. 272; p. 249.
Pál, István, Cleveland, Ohio. Spring lathe-tool. No. 1,354,776; Oct. 5; v. 279; p. 66.
Palahniuk, John, Brule Mines, Alberta, Canada. Cork-extractor. No. 1,350,383; Aug. 24; v. 277; p. 609.
Palas, Josef, Los Angeles, Calif. Sharpening device for lawn-mowers. No. 1,359,192; Nov. 16; v. 280; p. 493.
Palen, William D., and H. Bogaty, assignors to The Philadelphia Textile Machinery Company, Philadelphia, Pa. Drier. No. 1,345,225; June 29; v. 275; p. 952.
Palinski, Jan, Jersey City, N. J. Food-cutting device. No. 1,348,821; Aug. 3; v. 277; p. 132.
Palladino, Frank. (See Hardon, Francis H., assignor.)
Pallette, Baird. (See Smith, Norman R., assignor.)
Palm Brothers Company, The. (See Palm, Otto, Jr., assignor.)
Palm, Charles J., Newark, N. J. Device for holding piano-covers to pianos. No. 1,358,239; Nov. 9; v. 280; p. 261.
Palm, Otto, Jr., Rahway, N. J., assignor to The Palm Brothers Company, New York, N. Y. Decalcomania. No. 1,331,667; Feb. 24; v. 271; p. 555.
Palmbush, Andrew H., Conrad, Mont. Flax-harvesting attachment. No. 1,333,568; Mar. 9; v. 272; p. 316.
Palmer-Bee Company. (See McBride, Jesse E., assignor.)
Palmer, Benjamin C., assignor to E. Marshall, Honolulu, Hawaii. Fountain shaving-brush. No. 1,359,733; Nov. 23; v. 280; p. 645.
Palmer, Bruce W. (See Kubasta, Charles, assignor.)
Palmer, Charles A., Seattle, Wash. Dental mold-cup. No. 1,351,584; Aug. 31; v. 277; p. 908.
Palmer, Charles S., Pittsburgh, Pa., assignor to Standard Oil Company. Treating coal tar, heavy oils resulting from the distillation of bituminous coal, &c. No. 1,360,973; Nov. 30; v. 280; p. 957.
Palmer, Edward P., Minneapolis, Minn. Reciprocating engine. No. 1,353,539; Sept. 21; v. 278; p. 452.
Palmer Electric & Manufacturing Company, The. (See Palmer, Granville E., assignor.)
Palmer, Edgar F., and O. G. Hardin, Louisville, Ky. Davenette. No. 1,333,822; Mar. 16; v. 272; p. 424.
Palmer, Eli J., Chicago, Ill. Condiment-stopper. No. 1,328,447; Jan. 20; v. 270; p. 392.
Palmer, Elias H., Ladson, S. C. Internal-combustion engine. No. 1,328,685; Jan. 20; v. 270; p. 436.
Palmer, Frank B., Dorranceton borough, assignor to Wales Adding Machine Company, Wilkes-Barre, Pa. Calculating-machine. No. 1,330,278; Feb. 10; v. 271; p. 205.
Palmer, George B., New York, N. Y. Manufacture of colors. No. 1,339,219; May 4; v. 274; p. 106.
Palmer, Granville E., assignor to The Palmer Electric & Manufacturing Company, Boston, Mass. Electrical-contact system. No. 1,330,337; Feb. 10; v. 271; p. 217.
Palmer, Granville E., assignor to The Palmer Electric & Manufacturing Company, Boston, Mass. Alternating-current electromagnet. No. 1,343,404; June 15; v. 275; p. 467.
Palmer, Granville E., assignor to The Palmer Electric & Manufacturing Company, Boston, Mass. Service-switch. No. 1,355,566; Oct. 12; v. 279; p. 273.
Palmer, Harry E. (See Brandenburg, Albert F., assignor.)
Palmer, Harry R., Harrisburg, Pa. Smoke-filter and forced-draft device for furnaces. No. 1,352,142; Sept. 7; v. 278; p. 83.
Palmer, James E., Atlantic City, N. J. Ventilator. No. 1,358,240; Nov. 9; v. 280; p. 261.
Palmer, Jesse V., Greenwich, N. Y. Machine for handling tubular fabrics. No. 1,334,114; Mar. 16; v. 272; p. 479.
Palmer, Jesse V., Greenwich, N. Y. Treating tubular knitted fabrics. No. 1,334,164; Mar. 16; v. 272; p. 488.
Palmer, John F., St. Joseph, Mich. Impregnating fibrous materials. No. 1,328,541; Jan. 20; v. 270; p. 410.
Palmer, John F., St. Joseph, Mich. Resilient ring or annulus and making same. No. 1,352,470; Sept. 14; v. 278; p. 181.
Palmer, John F., Riverside, Ill. Carcass fabric for pneumatic tires. No. 1,344,145; June 22; v. 275; p. 678.
Palmer, John M., Chicago, Ill. Valve. No. 1,328,098; Jan. 13; v. 270; p. 289.
Palmer, John V., Pittsburgh, Pa. Chair. No. 1,357,469; Nov. 2; v. 280; p. 51.
Palmer, Lancelot N., Tooting, London, England. Tank for vehicles. No. 1,329,998; Feb. 3; v. 271; p. 122.
Palmer, Leon W., Unity Station, Pa. Loading-machine. No. 1,362,347; Dec. 14; v. 281; p. 319.
Palmer, Montague, assignor to Ideal Aeroplane & Supply Company, New York, N. Y. Toy airplane. No. 1,359,619; Nov. 23; v. 280; p. 623.
Palmer, Otto F., assignor of one-half to V. C. Gilpin and one-half to J. C. McAuliffe, Brooklyn, N. Y. Machine for making metallic conduits. No. 1,334,787; Mar. 23; v. 272; p. 652.
Palmer, Robert R., assignor of one-third to A. E. Drucker, San Francisco, Calif. Paper-pad press. No. 1,354,061; Sept. 28; v. 278; p. 601.
Palmer, Thomas, Victoria, British Columbia, Canada. System of building construction. No. 1,357,818; Nov. 2; v. 280; p. 118.
Palmer, Victor C., assignor of one-third to H. Joseph and one-third to J. F. Sullivan, Norwood, Colo. Automatic hay-ejector for sweep-rakes. No. 1,341,819; June 1; v. 275; p. 41.
Palmer, W. F., *et al.* (See Moore, William E., assignor.)
Palmer, Walter C. (See Hall, Spencer F., assignor.)
Palmer, Walter W., Montclair, N. J., assignor of one-half to W. R. McCoy, New York, N. Y. Preserving-container. No. 1,343,579; June 15; v. 275; p. 502.
Palmer, William H., Montreal, Quebec, Canada. Pneumatic tool. No. 1,362,503; Dec. 14; v. 281; p. 349.
Palmer, William J., Northwilkesboro, N. C. Bearing. No. 1,348,042; July 27; v. 276; p. 714.
Palmer, William W., assignor of one-half to H. E. Grossman, Dallas, Tex. Butter-cutter. No. 1,360,572; Nov. 30; v. 280; p. 879.
Palmgren, Nils A. (See Wingquist, S. G., and Palmgren.)
Palmgren, Nils A., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Sealing-washer for roller-bearings. No. 1,332,271; Mar. 2; v. 272; p. 18.
Palmgren, Nils A., Gottenborg, Sweden, assignor to S. K. F. Administrative Company, Inc., New York, N. Y. Double-acting thrust ball-bearing. No. 1,342,756; June 8; v. 275; p. 276.
Palmgren, Nils A., Gottenborg, Sweden, assignor to S K F Administrative Company, Inc., New York, N. Y. Combined radial and thrust ball-bearing. No. 1,346,417; July 13; v. 276; p. 276.
Palmgren, Nils A., assignor to Aktiebolaget Svenska Kullager-Fabriken, Gottenborg, Sweden. Roller-bearing. No. 1,350,263; Aug. 17; v. 277; p. 540.
Palmgren, Nils A., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Journal-box for railway-carriages and the like. No. 1,353,489; Sept. 21; v. 278; p. 442.
Palmour, Mark A. (See Barwick, James W., assignor.)
Palmowski, Stanislaus, New York, N. Y. Packing and boxing machine. No. 1,360,573; Nov. 30; v. 280; p. 879.
Palmros, Alexander, assignor to The Pneumelectric Machine Company, Syracuse, N. Y. Means for applying electric motors to winding-engines. No. 1,342,757; June 8; v. 275; p. 277.
Palombo, Faustino, Cleveland, Ohio. Vehicle-wheel. No. 1,333,770; Mar. 16; v. 272; p. 414.
Palosky, Frederick C., assignor of one-half to S. Zimmermann, Pontiac, Mich. Chuck. No. 1,346,245; July 13; v. 276; p. 242.
Palter, Louis, Cleveland, Ohio. Spool-holder. No. 1,363,747; Dec. 28; v. 281; p. 682.
Palutskas, Peter J., Pittsburgh, Pa. Window-washing apparatus. No. 1,354,127; Sept. 28; v. 278; p. 614.
Pampel, Peter H., Galena, Mo. Corn-cutter. No. 1,332,916; Mar. 9; v. 272; p. 193.
Panasevitch, John S. E., Northampton, Mass. Gas heater and cooker. No. 1,345,807; July 6; v. 276; p. 94.
Panay Horizontal Show Jar Co. (See Shover, Lamar H., assignor.)
Pancoast, William G., and W. J. Grotenhuis, Chicago, assignors to Bifiex Products Company, Waukegan, Ill. Bumper attachment. No. 1,344,649; June 29; v. 275; p. 843.
Pandolfo, Samuel C. (See De Smet, Edgard C., assignor.)
Panetti, David C. (See Panetti, Louis J. and D. C.)
Panetti, Louis J. and D. C., Jump River, Wis. Weeding-tool. No. 1,340,624; May 18; v. 274; p. 504.
Pangborn, Herbert L., Maquoketa, Iowa. Nut-lock. No. 1,360,143; Nov. 23; v. 280; p. 727.
Pangrazio, Bert, Scottsville, N. Y. Tire-valve. No. 1,351,400; Aug. 31; v. 277; p. 871.
Pann, August, Brooklyn, N. Y. Hand-operated power mechanism for small boats. No. 1,340,976; May 25; v. 274; p. 642.
Pannitti, Alphonse, Jr., Newark, N. J., assignor to American Telephone and Telegraph Company. Ratchet-screwdriver. No. 1,334,674; Mar. 23; v. 272; p. 630.
Panoulias, Panayiotis, New York, N. Y. Coating and stroking or decorating machine. No. 1,352,686; Sept. 14; v. 278; p. 224.

Digitized by Google

Panoulias, Panayiotis D. (See White, G., and Baker, assignors.)
Pantalek, John, Modesto, Calif. Safety pocket-knife. No. 1,353,490; Sept. 21; v. 278; p. 442.
Panza, Innocente. (See Zecchini, A., and Panza.)
Paoli, Arthur, Hancock, Mich. Hydraulic jack. No. 1,344,711; June 29; v. 275; p. 854.
Pape, August H., Kentfield, Calif. Fuel-supply for internal-combustion engines. No. 1,344,815; June 29; v. 275; p. 875.
Pape, August H., Kentfield, Calif. Convertible automobile-top. No. 1,363,909; Dec. 28; v. 281; p. 714.
Pape, August H., Kentfield, assignor of one-half to W. B. Larkins, San Francisco, Calif. Means for converting a collapsible top of an automobile into a closed top. No. 1,363,908; Dec. 28; v. 281; p. 714.
Pape, Frederic A. G., assignor to L. N. Hine, New York, N. Y. Method and machine for cracking nuts. No. 1,342,689; June 8; v. 275; p. 263.
Pape, Frederic A. G., assignor to L. N. Hine, New York, N. Y. Nut-cracking machine. No. 1,342,690; June 8; v. 275; p. 263.
Pape, Frederic A. G., assignor to L. N. Hine, New York, N. Y. Method and machine for cracking nuts. No. 1,342,691; June 8; v. 275; p. 263.
Pape, Frederic A. G., assignor to L. N. Hine, New York, N. Y. Nut-cracking machine. No. 1,342,692; June 8; v. 275; p. 263.
Pape, Frederic A. G., assignor to L. N. Hine, New York, N. Y. Apparatus for removing the outer shell or husk from palm-nuts. No. 1,342,693; June 8; v. 275; p. 264.
Pape, Herman G., New York, N. Y. Telephone hand set or handpiece. No. 1,341,280; May 25; v. 274; p. 700.
Pape, Herman G., New York, N. Y., assignor, by mesne assignments, to Beaver Machine and Tool Co., Inc., Newark, N. J. Mechanical movement. No. 1,363,050; Dec. 21; v. 281; p. 508.
Papec Machine Company. (See Bullock, F. J., and Preston, assignors.)
Papemaier, Henry C., North Troy, N. Y. Clamp for lamp guards and shades. No. 1,333,569; Mar. 9; v. 272; p. 316.
Papenfuss, Albert, Rochester, N. Y. Radiator. No. 1,363,165; Dec. 21; v. 281; p. 530.
Paper Bottle and Can Company. (See Selz, Andrew J., assignor.)
Paper Products Machine Company. (See Howard, Charles H., assignor.)
Paper Products Machine Company. (See Jackson, Patrick T., Jr., assignor.)
Paper Service Company. (See Brown, G. G., and Schuchart, assignors.)
Paper Utilities Corporation. (See Hill, Herbert M., assignor.)
Papini, Antonio. (See Ledig, R. G., and Papini.)
Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Current-regulating plug and socket. No. 1,333,936; Mar. 16; v. 272; p. 445.
Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Electric-current-regulating wall-switch. No. 1,335,014; Mar. 30; v. 272; p. 755.
Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Current-regulating plug and socket. No. 1,335,015; Mar. 30; v. 272; p. 755.
Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Current-regulating treadle-switch. No. 1,335,016; Mar. 30; v. 272; p. 755.
Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Current-regulating plug and pull-socket. No. 1,335,017; Mar. 30; v. 272; p. 756.
Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Current-regulating plug and socket. No. 1,335,018; Mar. 30; v. 272; p. 756.
Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Current-regulating foot-switch. No. 1,335,019; Mar. 30; v. 272; p. 756.
Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Electric heater for water and other liquids. No. 1,335,020; Mar. 30; v. 272; p. 756.
Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Carbon comb-electrode. No. 1,335,021; Mar. 30; v. 272; p. 756.
Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Rheostat. No. 1,335,022; Mar. 30; v. 272; p. 757.
Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Current-regulating plug and socket. No. 1,335,023; Mar. 30; v. 272; p. 757.
Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Bell-rheostat. No. 1,335,295; Mar. 30; v. 272; p. 807.
Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Rheostat. No. 1,336,918; Apr. 13; v. 273; p. 290.
Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Current-regulating plug and socket. No. 1,336,919; Apr. 13; v. 273; p. 291.
Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Electrically-operated fluid-heater. No. 1,338,997; May 4; v. 274; p. 64.
Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Current-regulating plug and socket. No. 1,338,998; May 4; v. 274; p. 64.
Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Automatic electric switch or circuit controlling mechanism for electric fluid-heaters. No. 1,340,668; May 18; v. 274; p. 513.
Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Switch and contact mechanism for electric-current-regulating plugs and sockets. No. 1,342,061; June 1; v. 275; p. 88.
Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Coupling for faucets, spigots, or the like with fluid-receivers, hose, or other conductors of fluids. No. 1,343,228; June 15; v. 275; p. 434.
Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Compressible rheostat. No. 1,343,472; June 15; v. 275; p. 480.
Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Device for clamping fluid-heaters with supply members. No. 1,345,396; July 6; v. 276; p. 14.
Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Current-regulating plug and socket switch. No. 1,346,418; July 13; v. 276; p. 277.
Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Automatic heater for water and other liquids. No. 1,358,982; Nov. 16; v. 280; p. 454.
Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Electric water-heater. No. 1,360,437; Nov. 30; v. 280; p. 852.
Pappazoglidis, George K., and G. Perines, Chicago, Ill. Sausage-linking machine. No. 1,361,094; Dec. 7; v. 281; p. 28.
Paque, Edward J., assignor to The Pollak Steel Company, Cincinnati, Ohio. Apparatus for forming forgings. No. 1,352,911; Sept. 14; v. 278; p. 269.
Paradis, Louis A. (See Kilts, F., and Paradis.)
Paradis, Robert F., Milwaukee, Wis. Picture-screen-frame projector. No. 1,349,580; Aug. 17; v. 277; p. 408.
Paradiso, Rocco, Los Banos, Calif. Spring suspension. No. 1,331,357; Feb. 17; v. 271; p. 476.
Paragon Binder Corporation. (See Carney, Joseph, assignor.)
Paragon Can & Cap Company. (See Beyer, H. A., and Kohrer, assignors.)
Paragon Electric Company. (See Pen Dell, Charles W., assignor.)
Paragon Machine Tool & Manufacturing Company, The. (See Peters, Frederick W., assignor.)
Paragon Metal Cap Company *et al.* (See Russell, Robert A., assignor.)
Paramount Knitting Company. (See La Montague, Patrick P., assignor.)
Paramount Rubber Consolidated, Inc. (See Roberts, Fred T., assignor.)
Parcells, Paul, assignor to Geo. Whiting Company, Chicago, Ill. Bending-roll. No. 1,349,690; Aug. 17; v. 277; p. 430.
Pardee, Charles, Augusta, Me. Shock-absorber. No. 1,336,534; Apr. 13; v. 273; p. 216.
Pardee, Frank, Hazleton, Pa. Spiral separator. No. 1,356,464; Oct. 19; v. 279; p. 489.
Pardee, Frank, Hazleton, Pa. Coal-breaker. No. 1,356,465; Oct. 19; v. 279; p. 489.
Pardee, George W., Washington, D. C. Direction-signal for automobiles. No. 1,355,061; Oct. 5; v. 279; p. 122.
Pardoe, William D., Trenton, N. J., assignor to Thermoid Rubber Company, Trenton, N. J. Composition for treating fibrous material. No. 1,354,996; Oct. 5; v. 279; p. 109.
Parent, Arthur, Millers Falls, Mass. Button-clipper. No. 1,347,289; July 20; v. 276; p. 508.
Parent, Regina L., Minneapolis, Minn. Child's one-piece sleeveless garment. No. 1,332,357; Mar. 2; v. 272; p. 35.
Parham, James F., Nashville, Tenn. Ink-fountain for printing-presses. No. 1,334,469; Mar. 23; v. 272; p. 591.
Parham, William M., Spring Hill, Tenn. Vehicle-wheel. No. 1,349,730; Aug. 17; v. 277; p. 438.
Paridon, Michael, Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Assembling-machine for matches and splints. No. 1,329,060; Jan. 27; v. 270; p. 536.
Paridon, Michael, Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Assembling-machine for matches and splints. No. 1,329,061; Jan. 27; v. 270; p. 537.
Paridon, Michael, Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Splint-feeding mechanism for match-machines. No. 1,348,181; Aug. 3; v. 277; p. 10.
Paridon, Michael, Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Machine for filling boxes. No. 1,360,438; Nov. 30; v. 280; p. 852.
Paridon, Michael, Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Machine for making book-matches. No. 1,360,439; Nov. 30; v. 280; p. 853.
Paris, Ezekiel N., Shawnee, Okla. Dish-washer. No. 1,345,226; June 29; v. 275; p. 952.
Paris, Pablo, New York, N. Y. Motor-drive for typesetting-machines. No. 1,339,667; May 11; v. 274; p. 266.

Alphabetical list of patentees—Continued.

Parisen, Robert T., assignor to Lawson Manufacturing Company, Pittsburgh, Pa. Controlling the flow of gas for heating water. No. 1,330,215; Feb. 10; v. 271; p. 194.
Parish, Louis N. (See Luther, Clevia J., assignor.)
Parisi, Sebastiano, New York, N. Y. Innersole. No. 1,349,095; Aug. 10; v. 277; p. 239.
Parisian Novelty Company. (See Komorous, Joseph, assignor.)
Pariso, Patsy (See Sardo, J., and Pariso.)
Parizek, Frank, Chicago, Ill. Whistle. No. 1,328,639; Jan. 20; v. 270; p. 428.
Parizek, Frank, Chicago, Ill. Whistle and mounting. No. 1,357,248; Nov. 2; v. 280; p. 9.
Park, Carl. (See Lundqvist, Nils H., assignor.)
Park Chemical Company. (See Bourg, Joseph N., assignor.)
Park Drop Forge Company, The. (See Dodge, Charles C., assignor.)
Park, George L., Toronto, assignor of three-eighteenths to R. T. Collins, two-ninths to G. Swanwick, two-ninths to C. Montag, and one-eigtheenth to F. W. Gates, Hamilton, Ontario, Canada. Stooking attachment for binders. No. 1,356,308; Oct. 19; v. 279; p. 459.
Park, James M., assignor of one-half to R. R. Reynolds, Rock Island, Ill. Bracing device for concrete-forms. No. 1,357,418; Nov. 2; v. 280; p. 41.
Park, Jay M., assignor of one-half to R. B. Charles, Chaffee, N. Y. Tongue-depressor. No. 1,339,711; May 11; v. 274; p. 275.
Park Manufacturing Company, The. (See Stubbs, Robert L., assignor.)
Parker, Adelbert F., Ogden, Utah. Concrete-tamper. No. 1,329,796; Feb. 3; v. 271; p. 84.
Parker, Arthur L., Des Moines, Iowa. Crank-locking device. No. 1,358,681; Nov. 9; v. 280; p. 350.
Parker, Arthur M., Georgetown, S. C. Machine for making coil-springs. No. 1,327,728; Jan. 13; v. 270; p. 220.
Parker, Asa T., Philadelphia, Pa. Gage. No. 1,359,884; Nov. 23; v. 280; p. 665.
Parker, Barton J., Houston, Tex. Trowel. No. 1,332,232; Mar. 2; v. 272; p. 10.
Parker, Benjamin, and W. F. Williams, Waroona, Western Australia, Australia. Rat-trap. No. 1,345,227; June 29; v. 275; p. 952.
Parker, Burton H., Detroit, Mich. Tool. No. 1,353,847; Sept. 28; v. 278; p. 557.
Parker, Burton H., Detroit, Mich. Wrench. No. 1,358,241; Nov. 9; v. 280; p. 261.
Parker, Charles F. (See Meyers, S. A., and Parker.)
Parker, Charles W. (See Miller, Harvey L., assignor.)
Parker, Charles W. (See Morris, Charles E., assignor.)
Parker, Christine R. (See Parker, George H., assignor.)
Parker Collapsible Rim Corporation. (See Parker, Harry J., assignor.)
Parker Collapsible Rim Corporation. (See Woodbury, Leonard P., assignor.)
Parker, Douglass H. (See Dice, John A., assignor.)
Parker, Earle D. (See Colman, H. D., Peterson, and Parker.)
Parker, Edward C. S., U. S. Navy. Method of and apparatus for producing photographs and projecting the same in natural colors. No. 1,328,291; Jan. 20; v. 270; p. 362.
Parker, Edward C. S., U. S. Navy. Photographic apparatus. No. 1,328,292; Jan. 20; v. 270; p. 360.
Parker, Edward C. S., U. S. Navy. Photographic apparatus. No. 1,328,293; Jan. 20; v. 270; p. 362.
Parker, Edward C. S., U. S. Navy. Photographic apparatus. No. 1,328,294; Jan. 20; v. 270; p. 363.
Parker, Edward C. S., U. S. Navy. Photographic apparatus. No. 1,341,338; May 25; v. 274; p. 711.
Parker, Edward G., and R. Stroppel, West Branch, Iowa. Combination knife and fork. No. 1,341,153; May 25; v. 274; p. 676.
Parker, Frank I., assignor, by mesne assignments, to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Lifting-magnet. No. 1,334,504; Mar. 23; v. 272; p. 598.
Parker, Franklin T., Columbia, S. C. Reinforced press cloth. No. 1,358,983; Nov. 16; v. 280; p. 454.
Parker, Fred, Oakland, Calif. Button-hook. No. 1,355,567; Oct. 12; v. 279; p. 273.
Parker, Frederick R., Chicago, Ill. Voltaic cell and battery. No. 1,333,771; Mar. 16 v. 272; p. 414.
Parker, Frederick R., Chicago, Ill. Electrical protective apparatus. No. 1,350,329; Aug. 24; v. 277; p. 599.
Parker, Geo. S., *et al.* (See Moore, William E., assignor.)
Parker, George. Hot Springs, Ark. Gate-opening device. No. 1,362,133; Dec. 14; v. 281; p. 278.
Parker, George C., Expo, assignor of one-third to D. J. Alexander and one-third to A. Fields, Norfolk, Va. Vacuum electric door-mat. No. 1,359,193; Nov. 16; v. 280; p. 493.
Parker, George H., assignor to C. R. Parker, Stamford, Conn. Game. No. 1,350,384; Aug. 24; v. 277; p. 610.
Parker, Harry J., assignor to S. Williams, San Francisco, Calif. Aeroplane. No. 1,337,151; Apr. 13; v. 273; p. 334.
Parker, Harry J., San Francisco, Calif., assignor to Parker Collapsible Rim Corporation. Demountable rim. No. 1,340,977; May 25; v. 274; p. 642.
Parker, Henry R., Norristown, Pa. Needle-loom. No. 1,337,259; Apr. 20; v. 273; p. 429.
Parker, Humphrey F., Dunedin, New Zealand. Variable-camber-rib for aeroplane-wings. No. 1,341,758; June 1; v. 275; p. 29.
Parker, John C., assignor to Lefax, Philadelphia, Pa. Filing-case. No. 1,329,139; Jan. 27; v. 270; p. 551.
Parker, John F., Kansas City, Mo. Non-skid chain. No. 1,340,182; May 18; v. 274; p. 421.
Parker, John F., Kansas City, Mo. Non-skid chain. No. 1,340,183; May 18; v. 274; p. 421.
Parker, John W. (See Humason, Granville A., assignor.)
Parker, Joseph F., Gardner, Mass. Means for securing license-tags to vehicles. No. 1,358,872; Nov. 16; v. 280; p. 433.
Parker, Joseph N., Bedford, Va. Tractor for motor-plows. No. 1,363,910; Dec. 28; v. 281; p. 714.
Parker, Leslie H. (See Partington, J. R., and Parker.)
Parker, Leslie O. (See Wilson, Charles E., and Parker.)
Parker, Linus J., Syracuse, assignor to Hunter Fan and Motor Co., Fulton, N. Y. Motor-fan. No. 1,362,036; Dec. 14; v. 281; p. 258.
Parker Machine Company. (See Fuller, Silas S., assignor.)
Parker, Marion F. (See Froelich, Russell E., assignor.)
Parker, Morgan, Newport, R. I. Safety-razor. No. 1,330,030; Feb. 3; v. 271; p. 128.
Parker, Newell D., and H. C. Lomb, New York, N. Y. Range-finder. No. 1,363,670; Dec. 28; v. 281; p. 667.
Parker, Norman C., Chicago, Ill. Protective pad for stairs. No. 1,344,310; June 22; v. 275; p. 711.
Parker, Orrel A., Cleveland, Ohio. Wheel or rim crate. No. 1,333,673; Mar. 16; v. 272; p. 396.
Parker, Orrel A., Cleveland, Ohio. Automobile-wheel. No. 1,333,674; Mar. 16; v. 272; p. 397.
Parker, Orrel A., Cleveland, Ohio. Wheel for vehicles. No. 1,357,723; Nov. 2; v. 280; p. 99.
Parker, Ralph D., San Francisco, Calif. Lamp-support. No. 1,331,668; Feb. 24; v. 271; p. 555.
Parker, Ralzemond D. (See Osborne, H. S., and Parker.)
Parker, Riley H. (See Tsibides, J. N., and Parker.)
Parker, Riley H., Winthrop, assignor to Gillette Safety Razor Company, Boston, Mass. Safety-razor. No. 1,350,034; Aug. 17; v. 277; p. 495.
Parker, Riley H., Winthrop, assignor to Gillette Safety Razor Company, Boston, Mass. Screw-thread gage. No. 1,353,608; Sept. 21; v. 278; p. 466.
Parker, Riley H., Winthrop, assignor to Gillette Safety Razor Company, Boston, Mass. Safety-razor. No. 1,353,609; Sept. 21; v. 278; p. 466.
Parker, Thatcher A., Brazil, Ind. Self-alining bearing-box and axle for mine-cars and the like. No. 1,329,847; Feb. 3; v. 271; p. 94.
Parker, Thomas T., Brooklyn, N. Y. Feed-water heater and purifier. No. 1,352,023; Sept. 7; v. 278; p. 61.
Parker, William J. (See Garner, H., J. P., and Parker.)
Parker, William M., Parkersburg, W. Va. Telephone-mouthpiece. No. 1,331,669; Feb. 24; v. 271; p. 555.
Parker, Winthrop, Manchester, N. H. Yarn-winding machine. No. 1,343,333; June 15; v. 275; p. 453.
Parkersburg Rig & Reel Company, The. (See Lockhart, Harold J., assignor.)
Parkes, Bertrand A., assignor to The Philadelphia Drying Machinery Company, Philadelphia, Pa. Conveyer. No. 1,328,099; Jan. 13; v. 270; p. 289.
Parkes, Samuel R., Willenhall, England. Window-sash fastener. No. 1,338,250; Apr. 27; v. 273; p. 687.
Parkes, Walter, assignor, by mesne assignments, to H. C. Osborn, Cleveland, Ohio. Framing device for motion-picture machines. No. 1,335,749; Apr. 6; v. 273; p. 9.
Parkes, Walter, assignor to A. L. Garford, Elyria, Ohio. Camera. No. 1,336,441; Apr. 13; v. 273; p. 199.
Parkes, Walter, assignor, by mesne assignments, to H. C. Osborn, Cleveland, Ohio. Motion-picture camera. No. 1,352,143; Sept. 7; v. 278; p. 83.
Parkes, Walter, assignor, by mesne assignments, to H. C. Osborn, Cleveland, Ohio. Mechanism for feeding films. No. 1,352,144; Sept. 7; v. 278; p. 83.
Parkhurst, Alice J., Flint, Mich. Stove-mat. No. 1,356,735; Oct. 26; v. 279; p. 589.
Parkhurst, Frederic A., assignor to The Aluminum Castings Company, Cleveland, Ohio. Composite piston for internal-combustion motors. No. 1,329,822; Feb. 3; v. 271; p. 89.
Parkhurst, Frederic A., assignor to The Aluminum Castings Company, Cleveland, Ohio. Composite piston for internal-combustion motors. No. 1,329,823; Feb. 3; v. 271; p. 89.
Parkhurst, Layton M., assignor, by mesne assignments, to H. Kramer & Co., Chicago, Ill. Antifriction alloy and manufacture. No. 1,359,194; Nov. 16; v. 280; p. 493.
Parkin, Henry, assignor of one-half to G. G. Meeley, Philadelphia, Pa. Starter applicable to magnetos. No. 1,328,892; Jan. 27; v. 270; p. 505.
Parkin, John, Jr., San Rafael, Calif. Rheostat. No. 1,335,181; Mar. 30; v. 272; p. 786.
Parkin, John, Jr., San Rafael, Calif. Variable-resistance device. No. 1,342,594; June 8; v. 275; p. 245.
Parkins, John G., Rorer, W. Va. Pane-fastener. No. 1,337,565; Apr. 20; v. 273; p. 487.
Parkinson, Floyd W., Peoria, and C. M. Kimball, Decatur, Ill. Automatically-controlled electric system. No. 1,330,135; Feb. 10; v. 271; p. 179.

Digitized by Google

Parkinson, John F., Palo Alto, Calif. Wheeled ladder. No. 1,335,182; Mar. 30; v. 272; p. 787.
Parkinson, John W. (See Redman, R., Parkinson, and Walker.)
Parkinson, Tom, Dunston-on-Tyne, England. Broken-granular-material and grain purifying machine. No. 1,348,043; July 27; v. 276; p. 715.
Parkinson, William J., assignor to Eastman Kodak Company, Rochester, N. Y. Controlling device for punch-presses. No. 1,343,580; June 15; v. 275; p. 502.
Parks, Clifton A. (See Leonard, G. I., and Parks.)
Parks-Cramer Company. (See Cramer and Hodge, assignors.)
Parks-Cramer Company. (See Cramer, S. W., and Hodge, assignors.)
Parks, Dennis. (See Mitchell, J. E., and Parks.)
Parks, Dennis. (See Mitchell, J. E., Wolfe, and Parks.)
Parks, Dennis, St. Louis, Mo. Multiple hull-board for cotton-cleaning machines. No. 1,357,586; Nov. 2; v. 280; p. 72.
Parks, Dennis, St. Louis, Mo. Cotton extracting and cleaning machine. No. 1,360,015; Nov. 23; v. 280; p. 702.
Parks, Edward F., Providence, R. I., assignor to Universal Winding Company, Boston, Mass. Cop or bobbin holder. No. 1,340,978; May 25; v. 274; p. 642.
Parks, G. M. Company, The. (See Thompson, A. W., and Comfort, assignors.)
Parks, Ostrander J., River Forest, assignor to General American Tank Car Corporation, Chicago, Ill. Tank-car. No. 1,338,392; Apr. 27; v. 273; p. 713.
Parks, William N. (See O'Brien, V. R., and Parks.)
Parks & Woolson Machine Company. (See Richardson, Charles G., assignor.)
Parmelee, Charles H., assignor, by mesne assignments, to Pacific Radiator Shield Co., Seattle, Wash. Radiator-shield. No. 1,327,877; Jan. 13; v. 270; p. 247.
Parmele, Edward A., and T. McLean, Staten Island, N. Y. Steering apparatus. No. 1,344,352; June 22; v. 275; p. 719.
Parmelee, Olin E. (See Johnson, D. E., and Parmelee.)
Parmelee, Roy, Chicago, Ill. Vise. No. 1,336,754; Apr. 13; v. 273; p. 259.
Parmelee, Roy, Chicago, Ill. Vise. No. 1,336,755; Apr. 13; v. 273; p. 259.
Parmenter, Brady, assignor to A. L. Atwood, Birmingham, Ala. Automobile-pedal lock. No. 1,343,405; June 15; v. 275; p. 467.
Parnall, Archie E., assignor to F. W. Williams, Chicago, Ill. Worm-wheel cutter. No. 1,343,982; June 22; v. 275; p. 646.
Parnall, Archie E., assignor to F. W. Williams, Chicago, Ill. Brake for phonographs. No. 1,345,397; July 6; v. 276; p. 14.
Parnall, Archie E., assignor to F. W. Williams, Chicago, Ill. Automatic stop for talking-machines. No. 1,345,398; July 6; v. 276; p. 14.
Parnes, Morris, New York, N. Y. Fuel-supply system. No. 1,341,515; May 25; v. 274; p. 746.
Parr, Elmer O., Greenview, Ill. Heating-stove. No. 1,339,039; May 4; v. 274; p. 72.
Parr, Frank L., Huntington, W. Va. Automatic checking and stopping apparatus for cars. No. 1,337,948; Apr. 20; v. 273; p. 561.
Parr, George T., St. Paul, Minn. Trellis. No. 1,336,580; Apr. 13; v. 273; p. 225.
Parr, George T., St. Paul, Minn. Frog-box. No. 1,356,400; Oct. 19; v. 279; p. 477.
Parr, Samuel W. (See Broderson, H. J., and Parr.)
Parradee, Edward, Grand Rapids, Mich. Automobile-bumper. No. 1,355,773; Oct. 12; v. 279; p. 312.
Parramore, Reddin W., Somerville, N. J. Composition for artificially inducing mold action in soils. No. 1,347,401; July 20; v. 276; p. 530.
Parrett Tractor Company. (See Frudden, Conrad E., assignor.)
Parrino, Joseph, assignor of one-half to G. Di Girolamo, Buffalo, N. Y. Vehicle-tire. No. 1,331,858; Feb. 17; v. 271; p. 476.
Parrish, Alan J., Paris, Ill. Making monolithic pavements. No. 1,347,654; July 27; v. 276; p. 636.
Parrish, George L., Ricketts, Pa. Talking-machine-top support and release therefor. No. 1,353,540; Sept. 21; v. 278; p. 452.
Parrish, Hale W., Chicago, Ill. Engine. No. 1,332,633; Mar. 2; v. 272; p. 88.
Parrish, John T., Duluth, Minn. Gear-casing and band-operating device for automobiles. No. 1,353,812; Sept. 21; v. 278; p. 506.
Parrish, P., London, and W. A. M. Valon, Stafford, England, assignors to themselves and South Metropolitan Gas Company, London, England. Manufacture of neutral sulfate of ammonia. No. 1,360,785; Nov. 30; v. 280; p. 921.
Parrish, Vernon E., Cupertino, Calif. Machine for ridging land. No. 1,339,040; May 4; v. 274; p. 73.
Parrott, Arthur H., and H. Round, Birmingham, England, assignors of one-third to R. H. Davis, London, England. Air-cushion. No. 1,331,359; Feb. 17; v. 271; p. 476.
Parrott, Ethel D., Los Angeles, Calif. Extension-table. No. 1,327,878; Jan. 13; v. 270; p. 248.
Parrott, Reginald J. (See Roe, A. V., and Parrott.)
Parry, Arthur, Port Orchard, Wash. Handle attachment. No. 1,329,203; Jan. 27; v. 270; p. 563.
Parry, Arthur, Port Orchard, Wash. Compound. No. 1,335,457; Mar. 30; v. 272; p. 837.
Parry, Samuel R. (See Morse, William F., assignor.)
Parsons, Carl B., assignor to Parsons Manufacturing Company, Detroit, Mich. Delivery-body. No. 1,359,734; Nov. 23; v. 280; p. 646.
Parsons, Charles A., Newcastle-upon-Tyne, and S. S. Cook, Wallsend, England. Power-transmission gear-wheel. No. 1,351,401; Aug. 31; v. 277; p. 872.
Parsons, Charles A., S. S. Cook, and A. P. Bennett, Newcastle-upon-Tyne, England; said Cook and said Bennett assignors to said Parsons. Turbine-blade attachment. No. 1,328,640; Jan. 20; v. 270; p. 428.
Parsons, Charles A., S. S. Cook, and L. M. Douglas, Newcastle-upon-Tyne, England; said Cook and said Douglas assignors to said Parsons. Carbon gland. No. 1,331,360; Feb. 17; v. 271; p. 477.
Parsons, Charles A., S. S. Cook, and L. M. Douglas, Newcastle-upon-Tyne, England; said Cook and said Douglas assignors to said Parsons. Carbon gland. No. 1,331,361; Feb. 17; v. 271; p. 477.
Parsons, Charles A., S. S. Cook, and L. M. Douglas, Newcastle-upon-Tyne, England; said Cook and said Douglas assignors to said Parsons. Carbon gland. No. 1,331,362; Feb. 17; v. 271; p. 477.
Parsons, Charles A., Newcastle-upon-Tyne, S. S. Cook, and L. M. Douglas, Wallsend, England; said Cook and said Douglas assignors to said Parsons. Packing for rotating shafts. No. 1,331,522; Feb. 24; v. 271; p. 527.
Parsons, Charles A., S. S. Cook, and L. M. Douglas, Newcastle-upon-Tyne, England; said Cook and said Douglas assignors to said Parsons. Gear-train. No. 1,332,061; Feb. 24; v. 271; p. 629.
Parsons, Charles A., S. S. Cook, and L. M. Douglas, Newcastle-upon-Tyne, England; said Cook and said Douglas assignors to said Parsons. Gland for packing rotating shafts. No. 1,332,062; Feb. 24; v. 271; p. 630.
Parsons, Charles A., S. S. Cook, and L. M. Douglas, Newcastle-upon-Tyne, England; said Cook and said Douglas assignors to said Parsons. Carbon gland. No. 1,334,393; Mar. 23; v. 272; p. 577.
Parsons, Charles A., S. S. Cook, and L. M. Douglas, Newcastle-upon-Tyne, England, said Cook and said Douglas assignors to said Parsons. Carbon-gland. No. 1,338,955; May 4; v. 274; p. 56.
Parsons, Charles A., S. S. Cook, and A. J. Aldis, Wallsend, England; said Cook and said Aldis assignors to said Parsons. Turbine-blade attachment. No. 1,344,311; June 22; v. 275; p. 711.
Parsons, Charles E., Englewood, N. J. Electric furnace. No. 1,359,735; Nov. 23; v. 280; p. 646.
Parsons, Charles E., Englewood, N. J. Treating charge materials in electric furnaces. No. 1,359,736; Nov. 23; v. 280; p. 646.
Parsons, Conduit C. (See Pfahler, Christian G., assignor.)
Parsons, Harold K., and H. H. Styll, Southbridge, Mass. Electric soldering. No. 1,340,736; May 18; v. 274; p. 505.
Parsons, John H., and A. A. Merrick, Ridley Park, Pa. Condenser or muffler for internal-combustion engines. No. 1,363,345; Dec. 28; v. 281; p. 605.
Parsons, John H., assignor of one-fourth to D. J. Normoyle, Philadelphia, and one-fourth to A. C. Bunnell, Ridley Park, Pa. Toy centrifugal gun. No. 1,356,466; Oct. 19; v. 279; p. 489.
Parsons, Levi L., New York, N. Y., assignor to Elevator Supply & Repair Company. Door-hanger. No. 1,329,326; Jan. 27; v. 270; p. 585.
Parsons, Levi L., New York, N. Y., assignor to Elevator Supplies Company, Inc. Door-hanger. No. 1,329,327; Jan. 27; v. 270; p. 585.
Parsons Manufacturing Company. (See Parsons, Carl B., assignor.)
Parsons Marine Steam Turbine Company, The. (See Black, David C., assignor.)
Parsons, Newell B., assignor to Belden Manufacturing Company, Chicago, Ill. Molded knob and manufacturing it. No. 1,355,254; Oct. 12; v. 279; p. 213.
Parsons, Philip D., Philadelphia, Pa., assignor to Scott Paper Company. Means for dispensing toilet-paper. No. 1,354,511; Oct. 5; v. 279; p. 12.
Parsons, Philip D., assignor to Scott Paper Company, Philadelphia, Pa. Dispensing-cabinet. No. 1,362,817; Dec. 21; v. 281; p. 463.
Parsons, Richard C., London, England. Fluid pump, turbine, and the like. (Reissue.) No. 14,988; Nov. 16; v. 280; p. 552.
Parsons, Robert G., Plantsville, assignor to The Steel Products Company, Hartford, Conn. Clamp. No. 1,362,540; Dec. 14; v. 281; p. 356.
Parsons, Robert J., assignor to General Electric Company, Fort Wayne, Ind. Electric switch. No. 1,349,851; Aug. 17; v. 277; p. 460.
Parsons, Stuart W., assignor to The Stanley Works, New Britain, Conn. Double-throw bolt. No. 1,334,314; Mar. 23; v. 272; p. 562.

Digitized by Google

Alphabetical list of patentees—Continued.

Parsons, Stuart W., assignor to The Stanley Works, New Britain, Conn. Lid-supporting device. No. 1,337,791; Apr. 20; v. 273; p. 530.
Parsons, Stuart W., assignor to The Stanley Works, New Britain, Conn. Strengthening-band for boxes and the like. No. 1,361,611; Dec. 7; v. 281; p. 127.
Parsons, Stuart W., and A. D. Waters, assignors to The Stanley Works, New Britain, Conn. Thumb-latch. No. 1,334,789; Mar. 23; v. 272; p. 652.
Partenheimer, Cyrus A. (See Johnston, G. S., Ihrcke, and Partenheimer.)
Partin, Albert, Talkeetna, via Anchorage, Alaska. Pipe-wrench. No. 1,359,421; Nov. 16; v. 280; p. 539.
Partington, James R., G. J. Jones, and T. K. Brownson, London, England. Production of ammonium nitrate. No. 1,330,136; Feb. 10; v. 271; p. 180.
Partington, James R., and L. H. Parker, London, England. Fertilizer. No. 1,348,578; Aug. 3; v. 277; p. 87.
Partington, James W., Passaic, N. J. Wire cable. No. 1,334,257; Mar. 16; v. 272; p. 505.
Partmann, John, New York, N. Y. Sewing-machine. No. 1,331,078; Feb. 17; v. 271; p. 426.
Partoll, Henry, Missoula, Mont. Bake-oven. No. 1,334,115; Mar. 16; v. 272; p. 479.
Partonnar, Ora L., Kansas City, Mo. Turntable-rack for ovens. No. 1,350,330; Aug. 24; v. 277; p. 599.
Partridge, Allen R., Cleveland, Ohio. Process and apparatus for reclaiming and refining copper and other metals. No. 1,352,912; Sept. 14; v. 278; p. 270.
Partridge, Arthur S., *et al.* (See Ehrlich, Leo, assignor.)
Partridge, Charles L., Omaha, Nebr. Bench-saw. No. 1,348,440; Aug. 3; v. 277; p. 61.
Parvin, Elsie R., Cynwyd, Pa. Ear-bandage for infants. No. 1,338,090; Apr. 27; v. 273; p. 656.
Pascale, Michael A., New York, N. Y. Milk-bottle holder. No. 1,360,786; Nov. 30; v. 280; p. 921.
Pascales, Steleanos A., Detroit, Mich. Life-saving device. No. 1,363,166; Dec. 21; v. 281; p. 530.
Paschall, Benjamin S., New York, N. Y. Fountain-pen. No 1,327,729; Jan. 13; v. 270; p. 220.
Paschen, Henry. (See Deneau, William M., assignor.)
Pascoe, Frank S., Cristobal, Canal Zone, Panama. Reversible chair. No. 1,353,066; Sept. 14; v. 278; p. 300.
Pascucci, Pietro. (See Carlson J., and Pascucci.)
Pasinski, Walter J., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 1,342,459; June 8; v. 275; p. 218.
Pasko, John, Flint, Mich. Motor-sleigh. No. 1,334,788; Mar. 23; v. 272; p. 652.
Pasman, Abram N., Waterbury, Conn. Flush-valve. No. 1,348,662; Aug. 3; v. 277; p. 104.
Pasquariello, Pasquale, Hamden, Conn. Wrench. No. 1,332,470; Mar. 2; v. 272; p. 56.
Pasquariello, Pasquale, Hamden, Conn. Ratchet device. No. 1,356,007; Oct. 19; v. 279; p. 398.
Pass & Seymour. (See Morey, Harry J., assignor.)
Passage, Don L., Bennington, N. Y. Clasp. No. 1,344,816; June 29; v. 275; p. 875.
Passaic Metal Ware Company. (See Gueritey, Charles, assignor.)
Passmore, Herbert J., and W. M. Neyland, Goliad, Tex. Planting attachment for cultivators. No. 1,333,505; Mar. 9; v. 272; p. 303.
Pasternak, Joseph. (See Pasternak, Stanley and J.)
Pasternak, Stanley, Chicago, and J. Pasternak, West Harvey, Ill. Curtain-stretcher. No. 1,353,067; Sept. 14; v. 278; p. 300.
Pastor, Frank, Akron, assignor to The Anchor Rubber Company, Inc., Barberton, Ohio. Toy balloon. No. 1,350,935; Aug. 24; v. 277; p. 716.
Pataye, Frank, Gardenville, N. Y. Demountable metal tire for automobiles. No. 1,343,840; June 15; v. 275; p. 554.
Patch, Harry M., Seattle, Wash. Muffler. No. 1,357,079; Oct. 26; v. 279; p. 656.
Patchen, Raymond S., Marion, Ind. Spark-plug intensifier. No. 1,352,526; Sept. 14; v. 278; p. 192.
Pate, Robert L., Springfield, Mo. Device for controlling the temperature of automobile-radiators. No. 1,338,585; Apr. 27; v. 273; p. 749.
Patelis, John T., Philadelphia, Pa. Bell. No. 1,362,348; Dec. 14; v. 281; p. 319.
Patent Button Company, The. (See Purinton, Forrest G., assignor.)
Patent Corporation. (See Armstrong, John, assignor.)
Patent File and Tool Company, The. (See Schneider, Charles O., assignor.)
Paterson, Frank E., Clarksburg, W. Va. Apparatus for producing carbon black. No. 1,344,060; June 22; v. 275; p. 662.
Paterson, John, Jr., Edinburg, N. D. Eraser-cleaner. No. 1,338,586; Apr. 27; v. 273; p. 749.
Paterson, John T. H., Chicago, Ill. Valve-controlled coupling. No. 1,331,720; Feb. 24; v. 271; p. 565.
Paterson, May H. (See Paterson, William and M. H.)
Paterson, William and M. H., Oakland, Calif. Motor-truck tractor. No. 1,336,653; Apr. 13; v. 273; p. 239.
Pathe Cinema Anciens Etablissements Pathe freres, *et al.* (See Marette, Jacques, assignor.)
Pathe Freres Phonograph Company. (See Capps, Frank L., assignor.)
Pathe Freres Phonograph Company. (See Lewis, Frank D., assignor.)
Pathescope Co. of America, The. (See Morton, Woolridge B., assignor.)
Patitz, Gerhardt J. (See Sippell, G. B., and Patitz.)
Patitz, Johann F. M., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Tractor. No. 1,344,209; June 22; v. 275; p. 690.
Patremio, Martin, assignor of one-half to A. Barbery, Lodi, N. J. Toy rattle. No. 1,348,836; Aug. 3; v. 277; p. 135.
Patriarche, Hugh R., Winnipeg, Manitoba, Canada. Antiskidding device. No. 1,333,873; Mar. 16; v. 272; p. 433.
Patrick, F. A., & Company. (See Witherell, Earl M., assignor.)
Patrick, Harry E., Evanston, A. J. Peterson and J. W. Bermes, Chicago, Ill., assignors to Service Station Equipment Company. Apparatus for use in assembling, limbering, and testing gas-engines. No. 1,332,678; Mar. 2; v. 272; p. 96.
Patrick, Houston L. (See Bodine, W. W., and Patrick.)
Patrick, Jesse A., Georgiana, Ala. Cleaning and polishing composition. No. 1,363,481; Dec. 28; v. 281; p. 631.
Patrick, Lido J., San Diego, Calif. Machine-gun. No. 1,347,753; July 27; v. 276; p. 657.
Patrick, Robert A., assignor to Columbian Bronze Corporation, Freeport, N. Y. Flexible coupling for propeller-shafts. No. 1,328,893; Jan. 27; v. 270; p. 505.
Patrick, Roy E., Utica, N. Y. Curtain-bracket. No. 1,358,571; Nov. 9; v. 280; p. 328.
Patrick, Thomas M., Oakland, Calif. Aerial torpedo. No. 1,361,286; Dec. 7; v. 281; p. 61.
Patrick, Walter A., B. F. Lovelace, and E. B. Miller, Baltimore, Md. Method and apparatus for separating vapors and gases. No. 1,335,348; Mar. 30; v. 272; p. 818.
Patriquin, Oliver, Waltham, Mass. Automobile skid-chain fastener. No. 1,329,923; Feb. 3; v. 271; p. 108.
Patrono, Frank and N., Mount Vernon, N. Y. Drying apparatus. No. 1,330,131; May 4; v. 274; p. 91.
Patrono, Nicola. (See Patrono, Frank and N.)
Pattay, Marc-Antoine and E. Jaquemot, assignors to C. von der Weid, Geneva, Switzerland. Electric incandescent lighting apparatus. No. 1,346,661; July 13; v. 276; p. 327.
Pattee, John R., New York, N. Y. Electrical connector. No. 1,341,339; May 25; v. 274; p. 712.
Patten, Charles H., assignor to Traylor Engineering & Manufacturing Company, Allentown, Pa. Suspension device for shafts. No. 1,329,848; Feb. 3; v. 271; p. 94.
Patten, Francis H. (See Packer, A. H., and Patten.)
Patten, John, Baltimore, assignor of one-half to S. M. Shoemaker, Eccleston, Md. Sulfuric-acid concentration. No. 1,340,290; May 18; v. 274; p. 440.
Patten, John P., *et al.* (See Hughes, Thomas J., assignor.)
Patten, Ralph W., D. G. Davis, and E. L. Burleigh, Scranton, Pa. Chain conveyer. No. 1,335,696; Mar. 30; v. 272; p. 883.
Patten, Ralph W., D. G. Davis, and E. L. Burleigh, Scranton, Pa. Flight attachment for conveyer-chains. No. 1,335,697; Mar. 30; v. 272; p. 883.
Patterson, Benjamin G., Fayetteville, Ark. Nut-lock. No. 1,340,496; May 18; v. 274; p. 480.
Patterson, Curtis J., Kansas City, Kans. Method of and apparatus for mixing dough. No. 1,334,395; Mar. 23; v. 272; p. 578.
Patterson, David C., Omaha, Nebr. Building construction. No. 1,349,850; Aug. 17; v. 277; p. 460.
Patterson, Fyson D., *et al.* (See Patterson, Thomas, assignor.)
Patterson, John F., Los Angeles, Calif. Educational game. No. 1,353,491; Sept. 21; v. 278; p. 442.
Patterson, John T., Detroit, Mich. Modification of planes when stationary and moving. No. 1,344,244; June 22; v. 275; p. 697.
Patterson, John W., Memphis, Tenn. Direction-indicator. No. 1,353,783; Sept. 21; v. 278; p. 501.
Patterson, John W., Oklahoma, Okla. Bed attachment. No. 1,363,430; Dec. 28; v. 281; p. 621.
Patterson, Lewis P., Kansas City, Kans. Welded joint and welding. No. 1,337,023; Apr. 13; v. 273; p. 310.
Patterson, Mark B. (See Cuyler, E. H., and Patterson.)
Patterson, Martin L., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Steering-gyroscope. No. 1,332,302; Mar. 2; v. 272; p. 24.
Patterson, Ralph J., Berlin, N. H. Electrical water-heater. No. 1,329,204; Jan. 27; v. 270; p. 564.
Patterson, Robert H., Winchester, Ky. Wire-fence stretcher. No. 1,344,312; June 22; v. 275; p. 711.
Patterson, Thomas, assignor of one-third to F. D. Patterson and one-third to T. E. Patterson, Hamilton, Ontario, Canada. Portable hanger for hoisting-tackle. No. 1,343,641; June 15; v. 275; p. 514.
Patterson, Thomas A., assignor to Niagara Alkali Company, Niagara Falls, N. Y. Chlorin-cell. No. 1,341,516; May 25; v. 274; p. 746.
Patterson, Thomas E., *et al.* (See Patterson, Thomas, assignor.)
Patterson, Warren C., Tamaqua, Pa. Metallic railway-tie. No. 1,329,205; Jan. 27; v. 270; p. 564.

Digitized by Google

Patterson, William, Tacoma, Wash. Oil-heater. No. 1,354,997; Oct. 5; v. 279; p. 109.
Patterson, William, Winchester, Ill. Clothespin. No. 1,356,785; Oct. 26; v. 279; p. 598.
Patterson, William H., assignor of one-half to F. Ellsworth, Cuyahoga Falls, Ohio. Block-mold. No. 1,335,525; Mar. 30; v. 272; p. 850.
Patterson, William J., trustee. (See McComb, William M., assignor.)
Patterson, William L., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Automatic projector. No. 1,352,471; Sept. 14; v. 278; p. 181.
Pattinson, Albert W., Los Angeles, Calif. Crank. No. 1,360,974; Nov. 30; v. 280; p. 957.
Pattison, Abraham C., Cumberland, Wis. Combined toaster and boiler-support. No. 1,349,529; Aug. 10; v. 277; p. 325.
Pattison, Charles M., Pentre, Wales. Apparatus for generating combustion products under pressure. No. 1,331,523; Feb. 24; v. 271; p. 528.
Pattison, Harold W., Seattle, Wash. Automatic continuous-rail crossing. No. 1,344,957; June 29; v. 275; p. 901.
Pattison, Roscoe, C., Rochester, N. Y., Apparatus for use in making cores or the like. No. 1,350,564; Aug. 24; v. 277; p. 646.
Pattison, Roscoe C., Detroit, Mich. Core-making machine. No. 1,363,911; Dec. 28; v. 281; p. 714.
Patton, Alexander M., assignor to Charles Hurst, Limited, Belfast, Ireland. Internal-combustion engine. No. 1,346,672; July 13; v. 276; p. 327.
Patton, Charles J., Keystone, S. D. Manufacture of mica and mica slate. No. 1,338,393; Apr. 27; v. 273; p. 713.
Patton, Luther, West Blocton, Ala. Insect-catcher. No. 1,338,587; Apr. 27; v. 273; p. 749.
Patton, Moses F., Tuscaloosa, Ala., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Dust-cap for valve-stems. No. 1,358,649; Nov. 9; v. 280; p. 343.
Patton, Oliver C., Denver, Colo., assignor to The Auto Dimmer Company. Dimmer for automobile-headlights. No. 1,343,886; June 15; v. 275; p. 563.
Patton, Ralph C., Providence, R. I. View-finder. No. 1,331,363; Feb. 17; v. 271; p. 477.
Patton, Raymond C., Nelsonville, Ohio. Door-lock. No. 1,357,112; Oct. 26; v. 279; p. 663.
Pattosien, William J., San Francisco, Calif. Power ship-cleaning device. No. 1,349,167; Aug. 10; v. 277; p. 253.
Paudois, Jules, Opheim, Mont. Animal-trap. No. 1,344,712; June 29; v. 275; p. 854.
Pauk, Henry E., St. Louis, Mo. Fabric-measuring machine. No. 1,337,260; Apr. 20; v. 273; p. 429.
Pauk, Henry E., St. Louis, Mo. Device for measuring off fabric. No. 1,359,462; Nov. 16; v. 280; p. 547.
Paul, Edward B., assignor to United States Asbestos Company, Lancaster, Pa. Loom for weaving flat rings. No. 1,362,134; Dec. 14; v. 281; p. 278.
Paul, Henry S., Portsmouth, N. H. Standardized accommodation-ladder system. No. 1,329,924; Feb. 3; v. 271; p. 108.
Paul, Lewis S. (See Pritner L. C., and Paul.)
Paul, Lewis S. (See Pritner and Paul.)
Paul, Louis, assignor of one-half to J. Satre, Spokane, Wash. Smoke-reducer. No. 1,342,867; June 8; v. 275; p. 299.
Paul, Stephen, Lansing, Mich. Adjustable guide for hammers. No. 1,352,621; Sept. 14; v. 278; p. 211.
Paul, William L., Berkeley, Calif., assignor to Deere and Company, Moline, Ill. Cultivator. No. 1,327,212; Jan. 6; v. 270; p. 62.
Paul, William L., Berkeley, Calif., assignor to Deere and Company, Moline, Ill. Cultivator. No. 1,335,074; Mar. 30; v. 272; p. 766.
Paulero, Louis, assignor to American Electric Tool Company, Incorporated, Petersburg, Va. Calking-tool. No. 1,358,326; Nov. 9; v. 280; p. 278.
Paulero, Louis, assignor to American Electric Tool Company, Incorporated, Petersburg, Va. Non-arcing commutating-switch device. No. 1,362,349; Dec. 14; v. 281; p. 319.
Pauley, Edward M., Birdsview, Wash. Adjustable wrench. No. 1,349,852; Aug. 17; v. 277; p. 461.
Paulin, Georges A., Asnières, France. Manufacture of cleansing material. No. 1,327,631; Jan. 13; v. 270; p. 201.
Paulsen, Albert L., and John G. Porter, Weaverville, Calif. Feathering-wheel. No. 1,363,615; Dec. 28; v. 281; p. 657.
Paulsen, Christian. (See Jackson and Paulson.)
Paulsen, Paul H., Sturgeon Lake, Minn. Side supporter for sawmills. No. 1,363,748; Dec. 28; v. 281; p. 683.
Paulsmeier, Albert C., Alameda, assignor to Byron Jackson Iron Works, Inc., San Francisco, Calif. Automatic stuffing-box. No. 1,328,190; Jan. 13; v. 270; p. 307.
Paulson, Andrew J., Salt Lake City, Utah. Controlling-valve for multiple fuel-supply pipes. No. 1,327,252; Jan. 6; v. 270; p. 70.
Paulson, Charles E., Montclair, N. J. Walkway-grating No. 1,354,998; Oct. 5; v. 279; p. 109.
Paulson, Dusenius, Flaxton, N. D. Shade-roller bracket. No. 1,332,749; Mar. 2; v. 272; p. 110.
Paulson, Ernest W., Oto, Iowa. Plow. No. 1,358,460; Nov. 9; v. 280; p. 306.
Paulson, Ernest W., assignor to Perfection Corn Planter Manufacturing Company, Sioux City, Iowa. Valve mechanism for corn-planters. No. 1,357,298; Nov. 2; v. 280; p. 19.
Paulson, Hans, Ortin, Wash. Muffler. No. 1,351,122; Aug. 31; v. 277; p. 815.
Paulson, Henry, Chicago, Ill. Watch-repair tag. No. 1,345,874; July 6; v. 276; p. 107.
Paulson, John E., Minneapolis, Minn. Seed spacing and dropping mechanism for planters. No. 1,328,846; Jan. 27; v. 270; p. 496.
Paulson, John E., and C. W. Almquist, Minneapolis, Minn. Pocket-rule holder. No. 1,334,394; Mar. 23; v. 272; p. 577.
Paulson, Sivil, St. Paul, Minn. Cartridge-tube filler. No. 1,340,737; May 18; v. 274; p. 525.
Paulson, Walter H. (See Lathrop, H. D., and Paulson.)
Paulus, Fred and O., Harvard, Nebr. Door stop and lock. No. 1,336,535; Apr. 13; v. 273; p. 216.
Paulus, Oscar. (See Paulus, Fred and O.)
Pauly, Albert A., Cleveland, Ohio. Molding apparatus. No. 1,339,712; May 11; v. 274; p. 275.
Pauly, Albert A., Cleveland, Ohio. Method and apparatus for manufacture of pipe. No. 1,363,912; Dec. 28; v. 281; p. 714.
Paupa, Joseph, and G. F. Hochriem, Chicago, Ill. Weighing mechanism. No. 1,333,332; Mar. 9; v. 272; p. 271.
Pausser, Arnaud, Philadelphia, Pa. Process of and apparatus for curling hair. No. 1,340,738; May 18; v. 274; p. 505.
Pautzke, William F., Lawrence, Kans. Mechanical toy. No. 1,336,756; Apr. 13; v. 273; p. 259.
Pavelka, Joseph, St. Louis, Mo. Shoe-lace tip. No. 1,340,669; May 18; v. 274; p. 513.
Pavelka, Joseph, St. Louis, Mo. Button-stapling machine. No. 1,356,219; Oct. 19; v. 279; p. 442.
Pavesi, Ugo, Milan, Italy. Vehicle with two or more pairs of driving-wheels. No. 1,353,848; Sept. 28; v. 278; p. 557.
Pavey, William B. (See French, G. M., and Pavey.)
Pavitt, William H., Jr., New York, N. Y., assignor of one-third to L. Wilputte and two-thirds to A. A. Wilputte, New Rochelle, N. Y. Coal-lorry. No. 1,363,008; Dec. 21; v. 281; p. 499.
Pavlik, Joseph, New York, N. Y. Support for furnace-pokers, &c. No. 1,328,686; Jan. 20; v. 270; p. 437.
Pawling and Harnischfeger Company. (See Welckel, Henry, assignor.)
Paxflat Barrel and Crate Corporation. (See Le Fevre, G. A., and Hutchinson, assignors.)
Paxflat Barrel & Crate Corporation. (See Le Fevre, George A., assignor.)
Paxson, John W., Philadelphia, Pa. Automobile-jack. No. 1,347,228; July 20; v. 276; p. 495.
Paxson, Richard D., Cleveland, Ohio. Article of manufacture. No. 1,335,075; Mar. 30; v. 272; p. 767.
Paxton, Benjamin F., St. Paul, Minn. Stump-burner. No. 1,347,054; July 20; v. 276; p. 462.
Payette, Joseph A., assignor, by mesne assignments, to General Chain Company, Providence, R. I. Machine for making metal fabric. No. 1,352,913; Sept. 14; v. 278; p. 270.
Paylor, Lonnie J., Danville, Va. Tobacco-hanging machine. No. 1,362,893; Dec. 21; v. 281; p. 477.
Payne, Albert E. H., Kildare, Ireland. Envelop and the like. No. 1,335,188; Mar. 30; v. 272; p. 787.
Payne, Alfred, Quebec, Quebec, Canada. Headlight-turning mechanism. No. 1,354,062; Sept. 28; v. 278; p. 601.
Payne, Caleb, assignor to United States Gypsum Company, Chicago, Ill. Building-tile. No. 1,356,940; Oct. 26; v. 279; p. 629.
Payne, Charles H., assignor of one-third to J. J. Clift, Soddy, Tenn. Mine-door. No. 1,335,255; Mar. 30; v. 272; p. 799.
Payne, Clarence Q., New York, N. Y. Apparatus for grading finely-comminuted materials. No. 1,354,063; Sept. 28; v. 278; p. 601.
Payne, David E., Magnolia, Minn. Fur-stretcher. No. 1,348,238; Aug. 3; v. 277; p. 22.
Payne, Floyd E., Indianapolis, Ind. Dispensing apparatus. No. 1,350,112; Aug. 17; v. 277; p. 510.
Payne, Frederick R., Chicago, Ill. Invalid's bed. No. 1,356,467; Oct. 19; v. 279; p. 489.
Payne, George, assignor to J. B. Dyson & Son, Limited, Birmingham, England. Forming cell-cases. No. 1,333,772; Mar. 16; v. 272; p. 414.
Payne, George V., Chicago, Ill. Locating leaks in underground pipes. No. 1,358,778; Nov. 16; v. 280; p. 414.
Payne, George V., Chicago, Ill. Ascertaining the location of leaks in underground fluid-pressure pipes or the like. No. 1,358,779; Nov. 16; v. 280; p. 414.
Payne, George W., Kansas City, Mo. Radiator-shield. No. 1,327,730; Jan. 13; v. 270; p. 220.
Payne, Herbert E., Highland Park, assignor of three-sixteenths to C. E. Wisner, Detroit, Mich. Casting metal on a metal core. No. 1,355,255; Oct. 12; v. 279; p. 213.

Digitized by Google

Alphabetical list of patentees—Continued.

Payne, Julius A., Philadelphia, Pa. Automatic auxiliary-air-inlet valve for carbureters. No. 1,361,900; Dec. 14; v. 281; p. 230.
Payne, Lawrence C., Anacostia, assignor of one-half to H. L. Harris, Washington, D. C. Adjustable gage for planes. No. 1,341,820; June 1; v. 275; p. 41.
Payne, Lee H., Chicago, Ill. Bottle-crate. No. 1,331,864; Feb. 17; v. 271; p. 477.
Payne, Marshall J., Staunton, assignor to The Payne Valve Corporation, Roanoke, Va. Valve for pneumatic tires. No. 1,333,091; Mar. 9; v. 272; p. 226.
Payne, Osborn R., Oelwein, Iowa. Mail-box. No. 1,350,515; Aug. 24; v. 277; p. 636.
Payne, Oscar V. (See Eickhoff, T. H., and Payne.)
Payne, Oscar V., Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y. Firearm. No. 1,338,866; May 4; v. 274; p. 40.
Payne, Oscar V., Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y. Firearm. No. 1,347,754; July 27; v. 276; p. 658.
Payne, Oscar V., Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y. Cartridge-magazine. No. 1,347,755; July 27; v. 276; p. 658.
Payne, Oscar V., Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y. Gun. No. 1,347,756; July 27; v. 276; p. 658.
Payne, Oscar V., Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y. Firearm. No. 1,349,345; Aug. 10; v. 277; p. 289.
Payne, Oscar V., Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y. Cartridge-magazine. No. 1,350,619; Aug. 24; v. 277; p. 656.
Payne, Oscar V., Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y. Gun. No. 1,352,412; Sept. 7; v. 278; p. 133.
Payne, Oscar V., Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y. Gun. No. 1,352,413; Sept. 7; v. 278; p. 133.
Payne, Oscar V., Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y. Breech lubrication. No. 1,352,414; Sept. 7; v. 278; p. 133.
Payne, Oscar V., Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y. Firearm. No. 1,357,208; Oct. 26. v. 279; p. 681.
Payne, Oscar V., Cleveland, Ohio, assignor to Auto Ordnance Corporation, New York, N. Y. Gun element. No. 1,358,104; Nov. 9; v. 280; p. 234.
Payne, Oscar V., Cleveland, Ohio, assignor to Auto Ordnance Corporation, New York, N. Y. Gun-magazine. No. 1,358,105; Nov. 9; v. 280; p. 235.
Payne, Oscar V., Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y. Gun construction. No. 1,361,401; Dec. 7; v. 281; p. 84.
Payne, Oscar V., Cleveland, Ohio., assignor to Auto-Ordnance Corporation, New York, N. Y. Magazine for firearms. No. 1,361,402; Dec. 7; v. 281; p. 84.
Payne, Oscar V., Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y. Gun mechanism. No. 1,363,613; Dec. 28; v. 281; p. 657.
Payne, Oscar V., Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y. Firearm. No. 1,363,809; Dec. 28; v. 281; p. 695.
Payne, Pearl P., Pierre, S. D. Tank. No. 1,363,992; Dec. 28; v. 281; p. 730.
Payne, Ralph W., Irvington, assignor of one-half to V. C. Armstrong, Hackensack, N. J. Wrench. No. 1,349,691; Aug. 17; v. 277; p. 430.
Payne, Theodore P., New York, N. Y. Agriculutral machine. No. 1,355,774; Oct. 12; v. 279; p. 313.
Payne, Thomas F., Pittsburgh, Pa. Puddling-iron. No. 1,342,694; June 8; v. 275; p. 264.
Payne Valve Corporation, The. (See Greene, Samuel J., assignor.)
Payne Valve Corporation, The. (See Payne, Marshall J., assignor.)
Payne, Walter S., Lincoln, Nebr. Electric power-hammer and drilling-machine combined. No. 1,356,556; Oct. 26; v. 279; p. 554.
Payson, Edward, Traverse City, Mich. Double-wheel antifriction caster. No. 1,338,325; Apr. 27; v. 273; p. 701.
Payton, Arthur L. (See McCaleb, Albert G., assignor.)
Payton, Arthur L., Chicago, Ill. Vacuum feed device for carbureters. No. 1,332,855; Mar. 2; v. 272; p. 130.
Payton, Irwin S., Cleveland, Ohio. Motor-vehicle lock. No. 1,358,106; Nov. 9; v. 280; p. 235.
Paz, Exequiel P., Buenos Aires, Argentina. Address-printing machine. No. 1,333,773; Mar. 16; v. 272; p. 415.
Peabody, James C., Boston, Mass. Battery-jar. No. 1,344,771; June 29; v. 275; p. 866.
Peacock, Samuel, New York, N. Y. Making carbonyl chlorid. No. 1,360,312; Nov. 30; v. 280; p. 828.
Peal, Marshall B., Brooklyn, N. Y. Combined spindle and casing for music-rolls. (Reissue.) No. 14,860; May 18; v. 274; p. 550.
Pearce, Charles G. (See O'Connor, Denis, assignor.)
Pearce, Herbert, Manchester, England, assignor to Westinghouse Electric & Manufacturing Company. Electrical protective device. No. 1,349,385; Aug. 10; v. 277; p. 297.
Pearce, Jackson A. (See Stewart, Lucius S., assignor.)
Pearce, William, *et al.* (See Cooke, William J., assignor.)
Pearl Pictorial (Foreign and Colonial) Ltd. (See Leachman, Edward C., assignor.)
Pearman, Frank M., Watertown, S. D. Drill-cabinet. No. 1,348,732; Aug. 3; v. 277; p. 116.
Pearman, Robert H., Boston, Mass., assignor to T. E. Steere, Providence, R. I. Camera. No. 1,341,017; May 25; v. 274; p. 650.
Pearman, Robert H., Boston, Mass., assignor to T. E. Steere, Providence, R. I. Camera. No. 1,353,266; Sept. 21; v. 278; p. 398.
Pearne, Frank Y., E. A. Tomkewitz, and P. M. Hansen, assignors to Lacy Manufacturing Company, Los Angeles, Calif. Pipe-welding machine. No. 1,330,765; Feb. 10; v. 271; p. 297.
Pearsall, Albert W., Lowell, Mass., assignor to The Lamson Company, Boston, Mass. Tube-coupling for pneumatic-despatch systems and the like. No. 1,357,894; Nov. 2; v. 280; p. 132.
Pearsall, Jesse I. (See Norris, J., and Pearsall.)
Pearsall, Perly W., Jr., Muskegon, Mich. Electric direction-indicator for automobiles. No. 1,331,965; Feb. 24; v. 271; p. 611.
Pearse, William M., Newark, Ohio. Account-file. No. 1,354,837; Oct. 5; v. 279; p. 78.
Pearson, Arthur E., Muskegon, Mich. Grinding-machine. No. 1,328,894; Jan. 27; v. 270; p. 506.
Pearson, Bigalo M., Greenville, Miss. Car-door lock and release. No. 1,337,261; Apr. 20; v. 273; p. 429.
Pearson, Calvin, and G. C. St. Louis, Fresno, Calif. Aeroplane. No. 1,355,256; Oct. 12; v. 279; p. 213.
Pearson, Carl F., assignor to Chicago Machine & Motor Co., Chicago, Ill. Bearing for loose pulleys. No. 1,338,091; Apr. 27; v. 273; p. 657.
Pearson, Fred N., Chicago, Ill. Controlling mechanism for doors and the like. No. 1,335,750; Apr. 6; v. 273; p. 9.
Pearson, George D., Montreal, Quebec, Canada. Tire. No. 1,345,228; June 29; v. 275; p. 953.
Pearson, Gustave C., Denver, Colo. Individual-bottle carrier. No. 1,342,568; June 8; v. 275; p. 240.
Pearson, James H., assignor to Perfection Egg Candler Company, Bloomfield, Ind. Egg-handling device. No. 1,355,354; Oct. 12; v. 279; p. 232.
Pearson, John H., assignor to Onepiece Bifocal Lens Company, Indianapolis, Ind. Toric-tool protractor. No. 1,356,656; Oct. 26; v. 279; p. 573.
Pearson, John W., Chicago, Ill. Commutator. No. 1,338,092; Apr. 27; v. 273; p. 657.
Pearson, John W., Chicago, Ill. Armature. No. 1,338,093; Apr. 27; v. 273; p. 657.
Pearson, Lawrence J. (See Holland and Pearson.)
Pearson, Lawrence J., Willow Grove, and W. E. Holland, assignors to Philadelphia Storage Battery Company, Philadelphia, Pa. Method and machine for making storage-battery grids. No. 1,329,999; Feb. 3; v. 271; p. 122.
Pearson, Lawrence J., Willow Grove, and W. E. Holland, assignors to Philadelphia Storage Battery Company, Philadelphia, Pa. Storage-battery grid and making same. No. 1,334,875; Mar. 23; v. 272; p. 669.
Pearson, Raymond V., assignor of one-half to T. Gonier, Minneapolis, Minn. Connecting-rod. No. 1,359,737; Nov. 23; v. 280; p. 646.
Pearson, Terrell B., Waco, Tex. Cylindrical structure. No. 1,339,862; May 11; v. 274; p. 303.
Pearson, William D., Portland, Oreg. Recording device. No. 1,363,913; Dec. 28; v. 281; p. 715.
Pearsons, George T., New York, N. Y. Syringe. No. 1,337,467; Apr. 20; v. 273; p. 468.
Pearsons, George T., New York, N. Y. Fire-extinguisher. No. 1,363,009; Dec. 21; v. 281; p. 499.
Peas, Walter J., Meadville, assignor to Blystone Manufacturing Company, Cambridge Springs, Pa. Mixer. No. 1,337,468; Apr. 20; v. 273; p. 469.
Pease, C. F., Company, The. (See Kluever, Fred W., assignor.)
Pease, C. F., Company, The. (See Pease, Charles F., assignor.)
Pease, Charles F., assignor to The C. F. Pease Company, Chicago, Ill. Ruling-pen. No. 1,333,129; Mar. 9; v. 272; p. 233.
Pease, Charles H., Canaan, Conn. License-tag bracket. No. 1,329,206; Jan. 27; v. 270; p. 564.
Pease, Charles S., Philadelphia, Pa. Manufacture of paper bags or receptacles. No. 1,355,353; Oct. 12; v. 279; p. 232.
Pease, Fred I., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Metal platform. No. 1,359,835; Nov. 23; v. 280; p. 665.
Pease, Herbert D., Richmond Hill, and W. P. Cohoe, Riverdale, assignors to The Sanseal Corporation, New York, N. Y. Composite cap or closure. No. 1,351,438; Aug. 31; v. 277; p. 879.
Pease, William E., and N. H. Suloff, Cleveland, Ohio, assignors of one-third to W. H. Evers. Retaining-wall structure. No. 1,340,670; May 18; v. 274; p. 513.
Peasley, Myron W., Randolph, N. Y. Conveyer. No. 1,335,076; Mar. 30; v. 272; p. 767.
Peatman, Ralph A., Mound City, Kans. Pump attachment for automobiles. No. 1,336,920; Apr. 13; v. 273; p. 291.

Digitized by Google

Peavey, Carlyle E. (See Comb, J. M., and Peavey.)
Peavey, Ernest E., Bangor, Me. Toy. No. 1,330,000; Feb. 3; v. 271; p. 122.
Peavy, Josiah, Connell, Tex. Trap. No. 1,330,338; Feb. 10; v. 271; p. 217.
Pech, Jacques L., Montpellier, France, assignor to The Gilfograph Corporation, Dover, Del. Photographic and cinematographic projection. No. 1,330,447; Feb. 10; v. 271; p. 237.
Peck, Charles B., Suffern, N. Y. Dust-collector. No. 1,344,146; June 22; v. 275; p. 678.
Peck, Charles H., Philadelphia, Pa. Street-traffic-signaling device. No. 1,332,917; Mar. 9; v. 272; p. 193.
Peck, Charles H., Philadelphia, Pa. Tractor. No. 1,348,315; Aug. 3; v. 277; p. 37.
Peck, Charles L., New York, N. Y., assignor to The Dorr Company. Sedimentation apparatus. No. 1,337,094; Apr. 13; v. 273; p. 324.
Peck, Charles L., New York, N. Y., assignor to The Dorr Company. Sedimentation apparatus. No. 1,337,095; Apr. 13; v. 273; p. 324.
Peck, Charles L., New York, N. Y., assignor to The Dorr Company. Rotating-screen filter. No. 1,338,999; May 4; v. 274; p. 64.
Peck, Charles L., assignor to The Dorr Company, New York, N. Y. Recovery of proteids from waste liquors of the hide-treating art. No. 1,347,822; July 27; v. 276; p. 670.
Peck, Charles L., assignor to The Dorr Company, New York, N. Y. Recovery of proteids from waste liquors of the hide-treating art. No. 1,347,823; July 27; v. 276; p. 670.
Peck, Charles L., New York, N. Y., assignor to The Dorr Company. Treatment of soapy liquor. No. 1,349,530; Aug. 10; v. 277; p. 325.
Peck, Charles L., assignor to The Dorr Company, New York, N. Y. Method of and apparatus for treating waste liquors. No. 1,357,587; Nov. 2; v. 280; p. 73.
Peck, Charles S., assignor to Peck Fur Company, Danbury, Conn. Fur-picking machine. No. 1,329,544; Feb. 3; v. 271; p. 88.
Peck, Clayton L. (See Clarke, John S., assignor.)
Peck, Ernest J., Portland, Oreg. Resilient support for plasterers' hawks. No. 1,348,516; Aug. 3; v. 277; p. 75.
Peck, Frank A., and J. A. E. Moore, Cleveland, Ohio. Draw-bar. No. 1,345,399; July 6; v. 276; p. 14.
Peck, Frederick G., Bradford, Pa. Wave or tide motor. No. 1,338,326; Apr. 27; v. 273; p. 701.
Peck, Frederick G., Bradford, assignor, by mesne assignments, to J. H. Malone, Philadelphia, Pa. Portable grinding device. No. 1,340,120; May 11; v. 274; p. 352.
Peck Fur Company. (See Peck, Charles S., assignor.)
Peck, Harley T., Lebanon, Ohio, assignor to The Peters Cartridge Company, Cincinnati, Ohio. Shotgun-shell. No. 1,340,245; May 18; v. 274; p. 432.
Peck, Harley T., Lebanon, assignor to The Peters Cartridge Company, Cincinnati, Ohio. Primer for small-arms ammunition. No. 1,350,465; Aug. 24; v. 277; p. 626.
Peck, Herbert G., Bloomfield, N. J. Gage. No. 1,357,588; Nov. 2; v. 280; p. 73.
Peck, Herbert G., Bloomfield, N. J. Gage. No. 1,357,589; Nov. 2; v. 280; p. 73.
Peck, Robert J., Key West, Fla. Brazing-machine. No. 1,357,080; Oct. 26; v. 279; p. 657.
Peckham, Joseph E., Newton Highlands, Mass. Shank-stiffener. No. 1,352,024; Sept. 7; v. 278; p. 61.
Peckham, Samuel C., Mexia, Texas. Peanut-roaster. No. 1,339,365; May 4; v. 274; p. 182.
Peco, Joseph H., *et al.* (See Loyd, Clarence E., assignor.)
Pecoretti, Alexander, *et al.* (See Bretscher, Hans, assignor.)
Peden, Albert, Johnstown, Pa. Toy. No. 1,346,053; July 6; v. 276; p. 144.
Peden, Hugh L., New York, assignor of one-half to W. F. Kearney, Spring Valley, N. Y. Snow-melter. No. 1,349,853; Aug. 17; v. 277; p. 461.
Pedersen, Albert B., Eureka, Utah. Air-compressor. No. 1,333,774; Mar. 16; v. 272; p. 415.
Pedersen, Carsten, Copenhagen, Denmark. Conveying device. No. 1,343,373; June 15; v. 275; p. 461.
Pedersen, John D., Jackson, Wyo. Firearm. No. 1,333,570; Mar. 9; v. 272; p. 316.
Pedersen, John D., Jackson, Wyo. Firearm. No. 1,333,571; Mar. 9; v. 272; p. 316.
Pedersen, John D., Jackson, Wyo. Firearm. No. 1,333,572; Mar. 9; v. 272; p. 316.
Pedersen, John D., Jackson, Wyo. Autoloading firearm. No. 1,348,733; Aug. 3; v. 277; p. 116.
Pedersen, John D., Jackson, Wyo. Firearm. No. 1,355,417; Oct. 12; v. 279; p. 243.
Pedersen, John D., Jackson, Wyo. Mechanical movement. No. 1,355,418; Oct. 12; v. 279; p. 244.
Pedersen, John D., Jackson, Wyo. Firearm. No. 1,355,419; Oct. 12; v. 279; p. 244.
Pedersen, John D., Jackson, Wyo. Firearm. No. 1,355,420; Oct. 12; v. 279; p. 244.
Pedersen, John D., Jackson, Wyo. Rifle-barrel. No. 1,355,421; Oct. 12; v. 279; p. 244.
Pedersen, John D., Jackson, Wyo. Rifle-barrel. No. 1,355,422; Oct. 12; v. 279; p. 244.
Pedersen, John D., Jackson, Wyo. Firearm. No. 1,355,423; Oct. 12; v. 279; p. 244.
Pedersen, John D., Jackson, Wyo. Firearm. No. 1,355,424; Oct. 12; v. 279; p. 245.
Pedersen, John D., Jackson, Wyo. Firearm. No. 1,355,425; Oct. 12; v. 279; p. 245.
Pedersen, Julius, Bridgeport, Conn. Shelf-reacher. No. 1,350,331; Aug. 24; v. 277; p. 599.
Pedersen, Mads P., and P. C. Petersen, assignors to Viking Pump Company, Cedar Falls, Iowa. Internal bearing structure. No. 1,362,733; Dec. 21; v. 281; p. 446.
Pedersen, Oscar A., New York, N. Y. Electric push-button fixture. No. 1,341,668; June 1; v. 275; p. 11.
Pedersen, Peder, assignor of one-fourth to C. C. Carter and one-fourth to A. F. Davis, Myrtle Point, Oreg. Cutting-tool. No. 1,361,798; Dec. 7; v. 281; p. 163.
Pederson, Elling, Los Angeles, Calif. Valve-spring-compressing tool. No. 1,360,440; Nov. 30; v. 280; p. 853.
Pedery, Joseph, Springfield, Mass. Stopping mechanism for wire-winding machines. No. 1,363,051; Dec. 21; v. 281; p. 508.
Pedler, William J., *et al.* (See Atkins, Walter, assignor.)
Pedley, W. P. (See Moors, Walter C., assignor.)
Pedrick, Albert C. (See Selah, Howard A., assignor.)
Pedulla, Nicola, MacDonaldton, Pa. Hand mining-machine. No. 1,357,510; Nov. 2; v. 280; p. 58.
Pedulla, Nicola, Macdonaldton, Pa. Mining-machine. No. 1,358,984; Nov. 16; v. 280; p. 454.
Peebles, Thomas A., Pittsburgh, assignor to D. S. Wolcott, trustee, Sewickley, Pa. Furnace. No. 1,338,694; May 4; v. 274; p. 8.
Peebles, Thomas A., assignor to J. M. Hopwood, Pittsburgh, Pa. Regulating combustion. No. 1,338,956; May 4; v. 274; p. 56.
Peebles, Thomas A., assignor to J. M. Hopwood, Pittsburgh, Pa. Method of and apparatus for regulating combustion. No. 1,339,000; May 4; v. 274; p. 65.
Peek, Frank W., Jr., Pittsfield, Mass., assignor to General Electric Company. Insulator. No. 1,350,936; Aug. 24; v. 277; p. 716.
Peek, Will, *et al.* (See Barton, Charles N., assignor.)
Peel, James A., and A. J. Ford, Lindsay, Ontario, Canada. Locking device for follower-blocks. No. 1,355,257; Oct. 12; v. 279; p. 213.
Peelle, Charles W., New York, assignor to The Peelle Company, Brooklyn, N. Y. Controlling mechanism for elevator-cars. No. 1,356,998; Oct. 26; v. 279; p. 640.
Peelle Company, The. (See McNish, Thomas N., assignor.)
Peelle Company, The. (See Peelle, Charles W., assignor.)
Peelle Company, The. (See Wexler, Benjamin, assignor.)
Peelle, Henry E., Brooklyn, N. Y. Rolling shutter. No. 1,357,819; Nov. 2; v. 280; p. 118.
Peerenboom, Willard, Appleton, Wis. Show-case. No. 1,328,542; Jan. 20; v. 270; p. 410.
Peerless Album Company. (See Uffner, Hyman, assignor.)
Peerless Husker Co. (See Sells, Ogden S., assignor.)
Peerless Light Company. (See Kerskovitz, Max, assignor.)
Peerless Motor Car Company, The. (See Frech, Theodore W., assignor.)
Peerless Piston Ring M'f'g. Co. (See Setter, George, assignor.)
Peerless Roll Leaf Co. (See Funk, Nelson E., assignor.)
Peerless Shocker Manufacturing Company. (See Wiig, A., Braden, and Prather, assignors.)
Peerless Wire Goods Company. (See Wiselogel, Christian D., assignor.)
Peers, Thomas, Liverpool, England. Sanitary bed or couch. No. 1,361,544; Dec. 7; v. 281; p. 115.
Peery, Daniel W., Carnegie, Okla. Road construction. No. 1,334,790; Mar. 23; v. 272; p. 652.
Peery, Emory W., Lynchburg, Va. Gravity control for gas-engine feed. No. 1,351,123; Aug. 31; v. 277; p. 815.
Peet, Ed L. (See Hanscom, W. G., Kohler, and Peet.)
Peet, William, Kansas City, Mo. Box-end-sealing machine. No. 1,349,432; Aug. 10; v. 277; p. 306.
Pegnam, Thomas H., Brockton, Mass. Combined mail-opening and door-knocker. No. 1,349,731; Aug. 17; v. 277; p. 438.
Pegram, Benjamin H., Lincoln, Ill. Automatic steering attachment for motor-vehicles. No. 1,354,417; Sept. 28; v. 278; p. 673.
Pehel, Zygmunt, New York, N. Y., assignor of one-third to W. Zych, Elizabeth, N. J. Lock. No. 1,330,650; Feb. 10; v. 271; p. 275.
Peller, Karl E., Hartford, Conn., assignor to Hartford-Fairmont Company, Canajoharie, N. Y. Paddle or plunger for molten glass. No. 1,328,799; Jan. 20; v. 270; p. 458.
Peller, Karl E., Hartford, Conn., assignor to Hartford-Fairmont Company, Canajoharie, N. Y. Glass-feeding apparatus. No. 1,332,405; Mar. 2; v. 272; p. 45.
Peller, Karl E., Hartford, Conn., assignor to Hartford-Fairmont Company, Canajoharie, N. Y. Glass-feeding machine and process. No. 1,349,551; Aug. 10; v. 277; p. 329.
Peller, Karl E., and W. A. Lorenz, Hartford, Conn., assignors to Hartford-Fairmont Company, Canajoharie, N. Y. Mold for glassware. No. 1,331,471; Feb. 17; v. 271; p. 498.

Digitized by Google

Alphabetical list of patentees—Continued.

Peller, Karl E., and E. H. Lorenz, West Hartford, Conn., assignors to Hartford-Fairmont Company, Canajoharie, N. Y. Transfer mechanism for glass-shaping machines. No. 1,331,472; Feb. 17; v. 271; p. 498.
Peirce, Charles L., Jr., Pittsburgh, Pa. Key-holder. No. 1,352,622; Sept. 14; v. 278; p. 211.
Peirce, John R., New York, N. Y. Recording mechanism. (Reissue.) No. 14,915; July 13; v. 276; p. 355.
Peirce, Ralph S., Hinsdale, Ill. Anchorage device. No. 1,356,401; Oct. 19; v. 279; p. 477.
Peirce, Ralph S., Hinsdale, Ill. Hose-coupling. No. 1,357,820; Nov. 2; v. 280; p. 118.
Peirce, Ralph S., Hinsdale, Ill. Toggle-bolt. No. 1,357,821; Nov. 2; v. 280; p. 118.
Peirce, William E., Newark, N. J. Telegraph-receptor. No. 1,327,352; Jan. 6; v. 270; p. 88.
Peirce, William S., trustee. (See Stokes, Frederick W. S., assignor.)
Peirson, Charles H., Glenside, and C. H. Butler, assignors to E. F. Houghton & Co., Philadelphia, Pa. Press. No. 1,352,987; Sept. 14; v. 278; p. 284.
Peltz, Martin, Colwich, Kans. Automatic connecting-rod-bearing take-up. No. 1,362,176; Dec. 14; v. 281; p. 285.
Pekrul, Gus H., Goltry, Okla. Threshing-machine. No. 1,333,278; Mar. 9; v. 272; p. 260.
Pelc, Frank and S., McDonald, Pa. Beehive. No. 1,344,817; June 29; v. 275; p. 875.
Pelc, Stefania. (See Pelc, Frank and S.)
Pelchat, Joseph T., Bradford, R. I. Railway-tie. No. 1,331,670; Feb. 24; v. 271; p. 556.
Pelizzola, Mino, Milan, Italy. Distribution for rotary engines. No. 1,355,907; Oct. 19; v. 279; p. 379.
Pellet, Auguste V., Chicago, Ill. Ignition apparatus. No. 1,330,952; Feb. 17; v. 271; p. 401.
Pelletier, Charles O., Oakland, Calif. Folding bed. No. 1,344,188; June 22; v. 275; p. 686.
Pelnar, John E., Deerfield, Kans. Cutter for broom-corn, maize, and the like. No. 1,339,282; May 4; v. 274; p. 116.
Peltier, Arthur H., Bristol, Tenn. Vehicle. No. 1,357,895; Nov. 2; v. 280; p. 132.
Peltier, August O., assignor, by mesne assignments, to Detroit Pressed Steel Company, Detroit, Mich. Demountable-wheel-lifting device. No. 1,349,581; Aug. 17; v. 277; p. 408.
Pelton, Charles H., assignor to The Thomas Manufacturing Company, Springfield, Ohio. Grain seed-cup. No. 1,359,738; Nov. 23; v. 280; p. 647.
Pelton, Charles W., and J. P. Barbour, Livingston, Mont. Tire filler and tester. No. 1,339,041; May 4; v. 274; p. 73.
Pelton, Edgar J., Ilion, N. Y. Heater. No. 1,341,580; May 25; v. 274; p. 758.
Pelton, George W., Muscatine, Iowa. Clamp. No. 1,359,524; Nov. 23; v. 280; p. 604.
Pelton Water Wheel Company, The. (See Doble, William A., assignor.)
Pemberton-Billing, Noel, Hertford, England. Domestic heating and cooking apparatus. No. 1,345,400; July 6; v. 276; p. 15.
Pemberton-Billing, Noel, Hertford, England. Domestic heating and cooking apparatus. No. 1,349,096; Aug. 10; v. 277; p. 239.
Pemberton-Billing, Noel, Hertford, England. Stove. No. 1,349,732; Aug. 17; v. 277; p. 438.
Pemberton, Lemuel. (See Exley, W. L., and Pemberton.)
Pemble, Edward E., Vancouver, British Columbia, Canada. Window-frame for vehicle-curtains. No. 1,342,460; June 8; v. 275; p. 218.
Pen Dell, Charles W., Chicago, Ill., assignor to Paragon Electric Company. Grounding device. No. 1,342,645; June 8; v. 275; p. 254.
Pen, Klaas J., The Hague, Netherlands. Firearm. No. 1,358,015; Nov. 9; v. 280; p. 217.
Pence, Alonzo H., and T. J. Morrow, Somerville, Ala. Fertilizer-distributer. No. 1,327,353; Jan. 6; v. 270; p. 88.
Pendergast, Frederick W., Cambridge, Mass. Diving apparatus. No. 1,343,744; June 15; v. 275; p. 535.
Pendergast, Frederick W., Cambridge, Mass. Chimney-heater. No. 1,343,745; June 15; v. 275; p. 535.
Pendleton, Charles E., Enid, Okla. Double-acting power-wrench. No. 1,353,417; Sept. 21; v. 278; p. 427.
Pendleton, Ernest R., Cleveland, Ohio. Vehicle attachment. No. 1,358,650; Nov. 9; v. 280; p. 344.
Pendleton, Gurdon, North Attleboro, Mass. Metal-cutting tool. No. 1,356,882; Oct. 26; v. 279; p. 618.
Pendleton, William H., Washington, D. C. Antiskidding device. No. 1,358,391; Nov. 9; v. 280; p. 292.
Pendziwiater, Wawrzeniec, Philadelphia, Pa. Lock. No. 1,331,781; Feb. 24; v. 271; p. 576.
Pendziwiater, Wawrzyniec, Philadelphia, Pa. Direction-indicator for dirigible vehicles. No. 1,337,848; Apr. 20; v 273; p. 541.
Penfield, Raymond C. (See Brown, Davis, assignor.)
Penfield, Raymond C. (See Martin, James P., assignor.)
Penfield, Raymond C. (See Wallace, William W., assignor.)
Penhallegon Company, The. (See Penhallegon, John J., assignor.)
Penhallegon, John J., Mineral Point, Wis., assignor to The Penhallegon Company, St. Paul, Minn. Automobile radiator connection. No. 1,330,899; Feb. 17; v. 271; p. 391.
Penhallegon, John J., Mineral Point, Wis., assignor to The Penhallegon Company, St. Paul, Minn. Automobile-radiator. No. 1,334,315; Mar. 23; v. 272; p. 562.
Penman, Kinnear, Auckland, New Zealand. Identification-plate for motor and other vehicles. No. 1,359,836; Nov. 23; v. 280; p. 666.
Penn, Harry J., Madison, N. C. Tobacco-extractor. No. 1,328,964; Jan. 27; v. 270; p. 519.
Penn Pressed Metal Co. (See Estberg, William T., assignor.)
Penn Seaboard Steel Corporation. (See Briner, Frank, assignor.)
Pennefather, James S., assignor of one-half to W. E Price, New York, N. Y. Lamp-fixture. No. 1,351,681; Aug. 31; v. 277; p. 926.
Pennell, Charles L., Barrs Mills, Ohio. Traction-wheel cleat mechanism. No. 1,353,849; Sept. 28; v. 278; p. 557.
Penner Abram C. (See Clements, William E., assignor.)
Pennewill, James W., Silver City, N. Mex. Keyboard-cleaner. No. 1,336,044; Apr. 6; v. 273; p. 64.
Penney, Samuel G., Pittsburgh, Pa. Puzzle. No. 1,358,780; Nov. 16; v. 280; p. 415.
Penniman, Russell S., Jr., and N. M. Zoph, Berkeley, Calif., assignors to West Coast Kalsomine Company. Manufacturing iron compounds. No. 1,327,061; Jan. 6; v. 270; p. 35.
Pennington, Emory G., Miami, Tex. No. 1,346,764; July 13; v. 276; p. 346.
Pennington, George N., Millville, Pa. Tire-chain holder. No. 1,333,184; Mar. 9; v. 272; p. 243.
Pennington, Harry R., Kansas City, Mo., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Riveting. No. 1,346,054; July 6; v. 276; p. 144.
Pennington, John R., Chicago, Ill. Medical apparatus. No. 1,363,010; Dec. 21; v. 281; p. 499.
Pennoyer, Edward A., Greenville, S. C. Shaft-bearing. No. 1,360,787; Nov. 30; v. 280; p. 921.
Pennsylvania Chocolate Company. (See Marvin, S. S., and Munz, assignors.)
Pennsylvania Crusher Company. (See Delamater, George R., assignor.)
Pennsylvania Crusher Company. (See Hartman, W. H., and Borton, assignors.)
Pennsylvania Crusher Company. (See Hiller, Joseph L., assignor.)
Pennsylvania Globe Gas Light Company, The. (See Slinack, Victor H., assignor.)
Pennsylvania Lawn Mower Works. (See Braun, William P. M., assignor.)
Pennypacker, Edward J., Los Angeles, Calif., assignor to Motion Picture Apparatus Co., Inc., New York, N. Y. Shutter mechanism for motion-picture cameras. No. 1,340,557; May 18; v. 274; p. 491.
Penquite, Maynard E., Colfax, Iowa. Sash-fastener. No. 1,351,868; Sept. 7; v. 278; p. 31.
Penso, Marius E., and F. Klein, New York, assignors to National Indicator Company, Long Island City, N. Y. Braiding-machine. No. 1,358,173; Nov. 9; v. 280; p. 248.
Pentecost, Arthur, East Orange, N. J., assignor to Wales Adding Machine Company, Wilkes-Barre, Pa. Calculating-machine. No. 1,328,847; Jan. 27; v. 270; p. 496.
Pentecost, Arthur, East Orange, N. J., assignor to Wales Adding Machine Company, Wilkes-Barre, Pa. Calculating-machine. No. 1,342,569; June 8; v. 275; p. 319.
Pentecost, Arthur, New York, N. Y., and W. W. Fisher, Fortyfort, Pa., assignors to Wales Adding Machine Company, Wilkes-Barre, Pa. Paper-carriage. No. 1,335,794; Apr. 6; v. 273; p. 17.
Pentecost, Arthur, New York, N. Y., and W. W. Fisher, Fortyfort, assignors to Wales Adding Machine Company, Wilkes-Barre, Pa. Calculating-machine. No. 1,355,258; Oct. 12; v. 279; p. 213.
Pentland, Robert, Jacksonville, Fla. Perpetual calendar. No. 1,348,044; July 27; v. 276; p. 715.
Peoples, Harold D., and G. W. Bidykoffer, Somerdale, Ohio. Adjusting mechanism for propeller-blades. No. 1,329,473; Feb. 3; v. 271; p. 25.
Peoples, John S., U. S. Army. Container. No. 1,340,078; May 11; v. 274; p. 343.
Peoples, John S., Washington, D. C. Ammunition-receptacle. No. 1,343,374; June 15; v. 275; p. 462.
Peoples Trust and Savings Bank, The, administrator. (See Nickols, George R., Jr.)
Pepin, Joseph N., Chicago, Ill. Sound-box for phonographs. No. 1,341,154; May 25; v. 274; p. 676.
Pepin, Napoleon, Woonsocket, R. I. Shuttle-throwing mechanism. No. 1,363,914; Dec. 28; v. 281; p. 715.
Peppard, Mayme J., Minneapolis, Minn. Machine for forming hair-curlers. No. 1,332,679; Mar. 2; v. 272; p. 96.
Peppercorn, Alfred E., Forbes, New South Wales, Australia. Automatic additional-air valve for combustion-engines. No. 1,343,375; June 15; v. 275; p. 462.
Peppers, Thomas H., Nashville, Ark. Display-basket. No. 1,329,207; Jan. 27; v. 270; p. 564.

Digitized by Google

Pepple, John W., San Antonio, Tex. Headlight. No. 1,357,113; Oct. 26; v. 279; p. 663.
Pequegnat, Frank A., and C. C. Knoll, Riverside, Calif. Speed-controller. No. 1,338,191; Apr. 27; v. 273; p. 675.
Peralta, Alonso D., Guatemala City, Guatemala. Hose-supporter. No. 1,348,045; July 27; v. 276; p. 715.
Percifull, Albert, Mercer, Tenn. Automobile-jack. No. 1,331,671; Feb. 24; v. 271; p. 556.
Percin, Fernard V., Villejuif, France. Reversing mechanism. No. 1,359,422; Nov. 16; v. 280; p. 539.
Percival, Frank N., Philadelphia, Pa., assignor of one-half to William H. Savery, Wilmington, Del. Carbureter. No. 1,359,837; Nov. 23; v. 280; p. 666.
Percival, Richard A. (See Meller, John B., assignor.)
Percy, Edwin H. (See Johnson, H. C., and Percy.)
Perdala, Fred, Newark, N. J. Resilient tire. No. 1,343,155; June 8; v. 275; p. 356.
Perdue, Robert H., and Leroy W. Theis, Cleveland, Ohio. Drafting appliance. No. 1,351,534; Aug. 31; v. 277; p. 898.
Peregrine, Clarence R., Charlerol, Pa., assignor to Macbeth-Evans Glass Company. Glass. No. 1,327,569; Jan. 6; v. 270; p. 129.
Peremi, Edward, Brooklyn, N. Y. Repeating device for sound-reproducing machines. No. 1,343,087; June 8; v. 275; p. 342.
Perene, H. B. (See Watkins, William F., assignor.)
Perey Manufacturing Company. (See Trubenbach, C. D. and Sanneman, assignors.)
Perez, Frank M., Brooklyn, assignor, by mesne assignments, to D. Brody, New York, N. Y. Display box or carton. No. 1,338,394; Apr. 27; v. 273; p. 714.
Perfect, Charles A., Sunbury, Ohio. Combination loader and unloader. No. 1,346,381; July 13; v. 276; p. 269.
Perfect Projection Shutter Company. (See Fullenlove, McClellan C., assignor.)
Perfect Projector Machine Company, The. (See Williams, John, assignor.)
Perfect Re-Fillable Fuse. (See Muller, William F., assignor.)
Perfection Corn Planter Manufacturing Company. (See Paulson, Ernest W., assignor.)
Perfection Egg Candler Company. (See Pearson, James H., assignor.)
Perfection Electric Products Company. (See Kruesheld, Henry, assignor.)
Perfection Manufacturing Company. (See Dinesen, Laurits, assignor.)
Perfection Mortise Machine Company, The. (See Norris, George E., assignor.)
Perfection Rubber-Metal Horseshoe Co. (See Crump, Eugene G., assignor.)
Perfecto Gear Differential Co., The. (See Baker, Arthur F., assignor.)
Perfecto Gear Differential Co. (See Starr, Charles E., assignor.)
Perfektone Corporation, The. (See Adams, Fred, assignor.)
Perfek'tone Corporation, The. (See Adams, Frederick, assignor.)
Perfex Radiator Company. (See Opitz, Fred M., assignor.)
Perines, George. (See Pappazoglidis, G. K., and Perines.)
Perkett, L. F., and E. C. Madary, assignors, by mesne assignments, to Johnson-Randall Company, Traverse City, Mich. Refrigerator construction. No. 1,358,781; Nov. 16; v. 280; p. 415.
Perkins, B. F., & Son, Inc. (See Bartlett, Henry B., assignor.)
Perkins, B. F., & Son. (See Senna, Samuel N., assignor.)
Perkins, Edward H. (See Clark, C. L., Perkins, and We Mett.)
Perkins Electric Door Control Co. (See Perkins, Seth E., assignor.)
Perkins Electric Switch Manufacturing Company, The. (See Thomas, George B., assignor.)
Perkins, Frances W. (See Perkins, Willis J., assignor.)
Perkins, Frank, Bauxippe, Ark. Fish-trap. No. 1,357,114; Oct. 26; v. 279; p. 663.
Perkins, George G., Lynn, Mass. Lacing-tip-forming machine. No. 1,347,655; July 27; v. 276; p. 637.
Perkins, George S. (See Bausman, A. L., and Perkins.)
Perkins, Harry J., Grand Rapids, Mich. Grinding-machine. No. 1,337,617; Apr. 20; v. 273; p. 497.
Perkins, James A., Brooklyn, N. Y. Inner tube for tires. No. 1,339,283; May 4; v. 274; p. 116.
Perkins, James O., Auburn, N. Y., assignor to Hamel Shoe Machinery Company. Inseam-trimming machine. No. 1,331,782; Feb. 24; v. 271; p. 577.
Perkins, John L., Sabetha, Kans. Oil-burner. No. 1,350,466; Aug. 24; v. 277; p. 627.
Perkins, Joseph G., Bellevue, Ky., assignor to I. J. Miller, Cincinnati, Ohio. Bath shower attachment. No. 1,354,838; Oct. 5; v. 279; p. 78.
Perkins, Laurence M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,335,127; Mar. 30; v. 272; p. 777.
Perkins, Richard E., Joplin, Mo. Pencil-holder. No. 1,362,263; Dec. 14; v. 281; p. 303.
Perkins, Richard E., Joplin, Mo., assignor to A. H. Lanyon, Pittsburg, Kans., trustee for The Dealers Manufacturing Company. Smoking-pipe. No. 1,349,298; Aug. 10; v. 277; p. 279.
Perkins, Robert G. (See Mannon, Brown, and Perkins.)
Perkins, Seth E., assignor to Perkins Electric Door Control Co., Waterloo, Iowa. Switch. No. 1,340,403; May 18; v. 274; p. 462.
Perkins, Willis J., assignor to F. W. Perkins, Grand Rapids, Mich. Sound detector and recorder. No. 1,329,925; Feb. 3; v. 271; p. 108.
Perl, Albert H. F. (See Stiles, H. E., and Perl.)
Perl, Elmer G., Minneapolis, Minn. Tree-protector band. No. 1,345,690; July 6; v. 276; p. 71.
Perl, Elmer G., and L. C. Boss, assignors to Minnesota Cement Products Company, Minneapolis, Minn. Concrete lamp-standard. No. 1,339,220; May 4; v. 274; p. 106.
Perlman, Jacques M., New York, N. Y. Vehicle-body. No. 1,328,391; Jan. 20; v. 270; p. 381.
Perlman, Jacques M., New York, N. Y. Vehicle-body. No. 1,329,627; Feb. 3; v. 271; p. 53.
Perlman, Louis H., New York, N. Y. Wheel. No. 1,342,225; June 1; v. 275; p. 121.
Perlman Rim Corporation. (See Mott, Otis W., assignor.)
Perlmutter, Harry, Brooklyn, N. Y. Baby-carriage. No. 1,351,439; Aug. 31; v. 277; p. 879.
Permolin Products Company Inc. (See Rauer, Philipp, assignor.)
Permutit Company, The. (See Duggan, Thomas R., assignor.)
Permutit Company, The. (See Massatsch, Cornelius, assignor.)
Pernot, Henri A., assignor to Compagnie des Bouchages Hermatiques Simplex, Paris, France. Apparatus for closing containers by pressure. No. 1,329,140; Jan. 27; v. 270; p. 552.
Pero, Bertram S. (See Wurts, E. V., and Pero.)
Peroxide Specialty Company, The. (See Fleck, Herman, assignor.)
Perrault, Joseph E., assignor to Hood Rubber Company, Watertown, Mass. Means for cutting rings and washers from rubber tubing. No. 1,348,316; Aug. 3; v. 277; p. 37.
Perri, Angelo, Watertown, assignor to Reece Shoe Machinery Company, Boston, Mass. Tack-feeding mechanism. No. 1,341,821; June 1; v. 275; p. 41.
Perri, Angelo, Watertown, assignor to Reece Shoe Machinery Company, Boston, Mass. Shoe-heeling method. No. 1,345,023; June 29; v. 275; p. 913.
Perrier, Hector J., Edmonton, Alberta, Canada. Camera. No. 1,346,461; July 13; v. 276; p. 286.
Perrin Shocker Manufacturing Company. (See Perrin, William H., assignor.)
Perrin, Solon L., *et al.* (See Gothner, John, assignor.)
Perrin, William H., assignor to Perrin Shocker Manufacturing Company, Limited, New Liskeard, Ontario, Canada. Sheaf-shocker. No. 1,346,974; July 20; v. 276; p. 446.
Perrine, George L., Portland, Oreg. Hose-reel. No. 1,339,785; May 11; v. 274; p. 288.
Perrine, Robert P., assignor of one-half to T. J. Ryan, St. Louis, Mo. Heating system for hydrocarbon-engines. No. 1,361,095; Dec. 7; v. 281; p. 23.
Perris, Isidor, Cleveland, Ohio. Filler for egg-crates and the like. No. 1,347,909; July 27; v. 276; p. 688.
Perron, Alexander J., Sparta, Wis. Spark-plug. (Reissue.) No. 14,949; Sept. 14; v. 278; p. 312.
Perrone, Pio, Rome, Italy, assignor to Società Anonima Italiana Gio, Ansaldo & C., Rome and Genoa, Italy. Means of defense for ships against the attacks of submarines. No. 1,346,720; July 13; v. 276; p. 337.
Perrot, Emile G., Philadelphia, Pa. Building. No. 1,342,062; June 1; v. 275; p. 88.
Perrusi, Arcángel, Buenos Aires, Argentina. Metallic roofing. No. 1,330,493; Feb. 10; v. 271; p. 246.
Perry, Benjamin F., Pittsburgh, Pa. Collection-box. No. 1,360,677; Nov. 30; v. 280; p. 899.
Perry, Charles A., Berkeley, Calif. Extracting gold. No. 1,361,489; Dec. 7; v. 281; p. 103.
Perry, Charles F., Harlingen, Tex. Canal-gate. No. 1,333,217; Mar. 9; v. 272; p. 249.
Perry, Charles J., Yonkers, N. Y. Wire-coating machine. No. 1,357,470; Nov. 2; v. 280; p. 51.
Perry, Charles L., Schenectady, N. Y., assignor to General Electric Company. Controller for electric motors. No. 1,350,937; Aug. 24; v. 277; p. 717.
Perry, Earl D., assignor to American Car Sprinkler Co., Worcester, Mass. Street-flusher. No. 1,363,993; Dec. 28; v. 281; p. 730.
Perry, Edward T., assignor of one-half to H. M. Wiegand, Detroit, Mich. Baffle-plate. No. 1,343,376; June 15; v. 275; p. 462.
Perry, Elmer G., Spring Hope, N. C. Fertilizer-distributer. No. 1,342,296; June 1; v. 275; p. 134.
Perry, Frank B., Newton Center, Mass. Signal set. No. 1,355,259; Oct. 12; v. 279; p. 214.
Perry, Frank R., Chicago, Ill., assignor of one-half to H. S. Benjamin, Detroit, Mich. Purifying apparatus for lubricants. No. 1,342,063; June 1; v. 275; p. 88.

Digitized by Google

Perry, Frederick H., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole-fitting machine. No. 1,338,957; May 4; v. 274; p. 57.

Perry, Frederick H., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Grinding-machine. No. 1,347,656; July 27; v. 276; p. 637.

Perry, Frederick H., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Stitch-separating machine. No. 1,357,511; Nov. 2; v. 280; p. 58.

Perry, Frederick H., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for lasting stitchdown-shoes. No. 1,363,265; Dec. 28; v. 281; p. 590.

Perry, George E., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Pneumatic brush or sprayer. No. 1,332,996; Mar. 9; v. 272; p. 208.

Perry, George H., Potsdam, N. Y. Hydrant. No. 1,335,526; Mar. 30; v. 272; p. 850.

Perry, George R., New York, N. Y. Furniture-leveler. No. 1,348,441; Aug. 3; v. 277; p. 61.

Perry, Grover, Chicago, Ill. Marker. No. 1,329,428; Feb. 3; v. 271; p. 16.

Perry, Grover, Chicago, Ill. Portable bookcase. No. 1,329,429; Feb. 3; v. 271; p. 16.

Perry, James P., Glencoe, N. Mex. Boiler. No. 1,350,565; Aug. 24; v. 277; p. 646.

Perry, John. (See Leviston, W., and Perry.)

Perry, Lindon A. (See Clifford, F. J., and Perry.)

Perry, Melvin W., Algoma, Wis. Spark-plug. No. 1,362,504; Dec. 14; v. 281; p. 349.

Perry, Nathan G., C. E. Hulting, and C. X. Thompson, Douglas, Ariz. Faucet. No. 1,333,506; Mar. 9; v. 272; p. 304.

Perry, Ray P., Montclair, N. J., assignor to The Barrett Company, New York, N. Y. Molded form of bitumen. No. 1,327,354; Jan. 6; v. 270; p. 88.

Perry, Ray P., Upper Montclair, N. J., assignor to The Barrett Company. Applying waterproofing to materials and product therefrom. No. 1,331,365; Feb. 17; v. 271; p. 477.

Perry, Ray P., Upper Montclair, N. J., assignor to The Barrett Company. Making construction material. No. 1,338,037; Apr. 27; v. 273; p. 647.

Perry, Ray P., Upper Montclair, N. J., assignor to The Barrett Company. Centrifugal machine and disintegrating material. No. 1,352,623; Sept. 14; v. 278; p. 211.

Perry, Ray P., assignor to The Barrett Company, Upper Montclair, N. J. Producing felt. No. 1,352,687; Sept. 14; v. 278; p. 224.

Perry, Ray P., Upper Montclair, N. J., assignor to The Barrett Company. Process and apparatus for making composite sheets of felt and the like. No. 1,360,313; Nov. 30; v. 280; p. 828.

Perry, Thomas O., Oak Park, Ill. Friction-clutch. No. 1,345,100; June 29; v. 275; p. 928.

Perry, Thomas O., Oak Park, Ill. Aircraft. No. 1,345,101; June 29; v. 275; p. 928.

Perry & Webster Incorporated. (See Webster, P. W., and Boynton, assignors.)

Perry, William H., assignor of one-half to Normandy Sea Food Company, San Diego, Calif. Drying apparatus. No. 1,363,431; Dec. 28; v. 281; p. 621.

Perry, William P. Leytonstone, London, England. Apparatus for distilling carbonaceous material. No. 1,341,517; May 25; v. 274; p. 746.

Pershall, Edward E., St. Louis, Mo. Distillation. No. 1,341,437; May 25; v. 274; p. 731.

Pershing, Frank W., Moline, Ill. Holder for use in coating rods for electric welding. No. 1,354,418; Sept. 28; v. 278; p. 673.

Persohn, Frank A., Baltimore, Md. Lens-mount. No. 1,339,974; May 11; v. 274; p. 324.

Person, Axel. (See Erickson, August, assignor.)

Person, Earl R., assignor to The Viscoloid Company, Leominster, Mass. Machine for feeding cylindrical blanks to bending devices. No. 1,330,450; Feb. 10; v. 271; p. 238.

Persons-Arter Machine Company, The. (See Arter, William, assignor.)

Persons, Charles A., Worcester, Mass. Handle-grip. No. 1,345,505; July 6; v. 276; p. 35.

Pesa, Peter, Newark, N. J. Broken-tap remover. No. 1,331,366; Feb. 17; v. 271; p. 478.

Peschko, Rudolph J., York, Pa., assignor to The Dentist's Supply Company. Preventing distortion of precious metals at temperatures higher than their fusing-points and article produced thereby. No. 1,335,024; Mar. 30; v. 272; p. 757.

Peskolich, Slave, Butte, Mont. Safety device for mine-cages. (Reissue.) No. 14,864; May 25; v. 274; p. 768.

Peskulich, Slave, Butte, Mont. Safety device for mine-cages. No. 1,334,116; Mar. 16; v. 272; p. 480.

Petaja, John W. (See Bausano, Peter, and Petaja.)

Petan, John, Philadelphia, Pa. Ash-sage color-preserving extract. No. 1,340,246; May 18; v. 274; p. 432.

Pete, Frank, McDonald, Pa. Clothesline. No. 1,360,144; Nov. 23; v. 280; p. 727.

Peteler, Adolph, Freeport, N. Y. Lifting-jack with rotatable cams. No. 1,352,472; Sept. 14; v. 278; p. 181.

Peter, Alfred, assignor to Sheffield Car Company, Three Rivers, Mich. Starting and reversing mechanism. No. 1,334,550; Mar. 23; v. 272; p. 607.

Peter, Bernard H., Westminster, England, assignor, by mesne assignments, to The Union Switch & Signal Company, Swissvale, Pa. Signaling system. No. 1,327,570; Jan. 6; v. 270; p. 129.

Peterka, John. (See Green, N. F., and Peterka.)

Peterman, Floyd T., *et al.* (See Howard, Albertson, assignor.)

Peterman, Frederick, New York, N. Y. Doll's eyes. No. 1,332,518; Mar. 2; v. 272; p. 66.

Peterman, James. (See Peterman, Joseph F., assignor.)

Peterman, Joseph F., Superior, Wis., assignor of one-third to J. Peterman, Chicago, Ill. Track-brace. No. 1,361,901; Dec. 14; v. 281; p. 231.

Petermann, Joseph, Philadelphia, Pa. Asphalt-cutter mechanism. No. 1,331,367; Feb. 17; v. 271; p. 478.

Petermann, Joseph, Philadelphia, Pa. Apparatus for cutting and breaking asphalt or concrete. No. 1,344,560; June 22; v. 275; p. 760.

Petermann, Otto, assignor to Corona Typewriter Company, Inc., Groton, N. Y. Typewriting-machine. No. 1,356,825; Oct. 26; v. 279; p. 607.

Petermann, Otto, assignor to Corona Typewriter Company, Inc., Groton, N. Y. Typewriting-machine. No. 1,356,826; Oct. 26; v. 279; p. 607.

Peters, Andrew, Oakland, Calif. Dough cutting and molding machine. No. 1,337,152; Apr. 13; v. 273; p. 834.

Peters, Caroline A., Los Angeles, Calif. Hat. No. 1,342,132; June 1; v. 275; p. 102.

Peters Cartridge Company, The. (See Peck, Harley T., assignor.)

Peters, Edward A., and J. T. Welhoefer, assignors to Drew Carrier Company, Waterloo, Wis. Hogpen. No. 1,337,262; Apr. 20; v. 273; p. 430.

Peters, Emil, and A. Lambert, Chicago, Ill. Legging. No. 1,347,657; July 27; v. 276; p. 637.

Peters, Frank A., Chicago, Ill. Curtain-support. No. 1,327,961; Jan. 13; v. 270; p. 268.

Peters, Frederick W., West Park, assignor to The Paragon Machine Tool & Manufacturing Company, Cleveland, Ohio. Reciprocating saw. No. 1,356,169; Oct. 19; v. 279; p. 432.

Peters, Frederick W., West Park, assignor to The Peters Machine and Manufacturing Company, Cleveland, Ohio. Universal joint. No. 1,360,788; Nov. 30; v. 280; p. 921.

Peters, George M., Kirkwood, Mo. Cushion-wheel. No. 1,342,461; June 8; v. 275; p. 218.

Peters, George W., and O. F. Alkire, Charleston, Wash. Electrode. No. 1,356,468; Oct. 19; v. 279; p. 490.

Peters, John F., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Reactance-coil. No. 1,344,713; June 29; v. 275; p. 855.

Peters, John F., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Transformer for use with rotary converters. No. 1,347,910; July 27; v. 276; p. 688.

Peters, John F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Co. Transformer. No. 1,351,061; Aug. 31; v. 277; p. 804.

Peters, Louis J., Brooklyn, N. Y. Match-comb. No. 1,330,279; Feb. 10; v. 271; p. 206.

Peters, Lyle, Denver, Colo. Valve-lock. No. 1,339,412; May 11; v. 274; p. 217.

Peters Machine and Manufacturing Company, The. (See Peters, Frederick W., assignor.)

Peters Machine and Manufacturing Company, The. (See Thiemer, William H., assignor.)

Peters, Orland W., Los Angeles, Calif. Shoe-protector. No. 1,345,875; July 6; v. 276; p. 107.

Peters, Percy D. (See Davis, Verner F., assignor.)

Peters, Robert H. (See Western, A. H., and Peters.)

Peters, Theodore, assignor to The Pet-Son Pump Company, Ferdinand, Ind. Pump. No. 1,353,492; Sept. 21. v. 278; p. 442.

Peters, Thomas J., Peters, Fla. Tomato and fruit sorter and distributer. No. 1,340,079; May 11; v. 274; p. 343.

Peters, Walter R., assignor of one-half to F. B. Beddall, Philadelphia, Pa. Combination-tool. No. 1,331,368; Feb. 17; v. 271; p. 478.

Peters, William E., Brownfield, Tex. Stove. No. 1,357,182; Oct. 26; v. 279; p. 676.

Petersen, Anker, Mobile, Ala. Shaft-protector. No. 1,361,403; Dec. 7; v. 281; p. 85.

Petersen, Anker, Winthrop, Mass., assignor, by mesne assignments, to The American Wiremold Company, Hartford, Conn. Braiding-machine. No. 1,331,672; Feb. 24; v. 271; p. 556.

Petersen, Arnold J., Cedar Rapids, Iowa. Light-bowl hanger. No. 1,338,958; May 4; v. 274; p. 57.

Petersen, August H. (See Lacroix, J. D., and Petersen.)

Petersen, Christian M. and O. J. Boden, San Francisco, Calif. Electrical apparatus. No. 1,346,606; July 13; v. 276; p. 314.

Petersen, Hans, assignor to The Linograph Company, Davenport, Iowa. Mold. No. 1,342,595; June 8; v. 275; p. 245.

Digitized by Google

Petersen, Hans, assignor to The Linograph Company, Davenport, Iowa. Magazine for typesetting-machines. No. 1,356,786; Oct. 26; v. 279; p. 599.
Petersen, John W., Davenport, Iowa. Pole-prop. No. 1,355,568; Oct. 12; v. 279; p. 273.
Petersen, Niels P., West Lafayette, Ind. Milk-strainer. No. 1,332,358; Mar. 2; v. 272; p. 36.
Petersen, Oluf G., Somerset, Ky. Excavating-machine. No. 1,340,247; May 18; v. 274; p. 432.
Petersen Owen Company. (See Wundrack, Otto, assignor.)
Petersen, Peter C. (See Pedersen, M. P., and Petersen.)
Petersen, Soren F., Chicago, Ill. Mop. No. 1,342,182; June 1; v. 275; p. 112.
Petersen, Viggo S. K., Gjentofte, near Copenhagen, Denmark. Measuring the consumption of heat. No. 1,359,914; Nov. 23; v. 280; p. 681.
Petersen, Waldemar, Darmstadt, and R. Rudenberg, Berlin-Westend, assignors to Siemens Schuckertwerke G. m. b. H., Berlin, Germany. System for protecting electrical transmission-lines. No. 1,335,256; Mar. 30; v. 272; p. 800.
Petersen, Walter R., Milwaukee, Wis. Tire-tread attachment. No. 1,349,626; Aug. 17; v. 277; p. 417.
Peterson, Alex S., Bayonne, N. J. Window-rattling stop. No. 1,336,045; Apr. 6; v. 273; p. 65.
Peterson, Andrew J. (See Patrick, H. E., Peterson, and Bermes.)
Peterson, Andrew M., New Athens, Ohio. Chimney-cap. No. 1,340,459; May 18; v. 274; p. 473.
Peterson, Andrew R., Fargo, N. D. Shock-former. No. 1,348,046; July 27; v. 276; p. 715.
Peterson, Burt A. (See Colman, H. D., Peterson, and Parker.)
Peterson, Burt A., assignor, by mesne assignments, to Barber-Colman Company, Rockford, Ill. Winder. No. 1,362,636; Dec. 21; v. 281; p. 427.
Peterson, Carl A., and C. Swanson, Portland, Oreg. Automatic painting-machine. No. 1,330,001; Feb. 3; v. 271; p. 122.
Peterson, Carl C., Chester, Pa. Garment-clasp. No. 1,355,416; Oct. 12; v. 279; p. 243.
Peterson, Carl E., Montclair, N. J. Suspender-slide. No. 1,330,339; Feb. 10; v. 271; p. 217.
Peterson, Carl E., Montclair, assignor to Eastern Tool & Manufacturing Company, Bloomfield, N. J. Button-loop. No. 1,346,911; July 20; v. 276; p. 433.
Peterson, Charlie, Crystal Falls, Mich. Runner attachment for automobiles. No. 1,337,153; Apr. 13; v. 273; p. 335.
Peterson, Christen J., Chicago, Ill. Motion-picture machine. No. 1,338,695; May 4; v. 274; p. 9.
Peterson, Claus E., Worcester, Mass. Pneumatic player-action for pianos. No. 1,330,840; Feb. 10; v. 271; p. 218.
Peterson, Claus E., Worcester, Mass. Pneumatic piano-player. No. 1,346,246; July 13; v. 276; p. 242.
Peterson, Claus E., Worcester, assignor to Iverson Piano Player Company, Boston, Mass. Pneumatic motor for piano-players. No. 1,327,731; Jan. 13; v. 270; p. 221.
Peterson, Earl L., Corona, assignor to United Concrete Pipe Company, New York, N. Y. Reinforced concrete construction. No. 1,346,673; July 13; v. 276; p. 327.
Peterson, Eldon L., Tacoma, Wash. Garden-tool. No. 1,328,191; Jan. 13; v. 270; p. 307.
Peterson, Erick B., assignor to George W. Dover, Incorporated, Providence, R. I. Ball safety-catch for brooches and articles of a similar nature. No. 1,328,965; Jan. 27; v. 270; p. 519.
Peterson, Frank, assignor to American Safety Device Co., New York, N. Y. Scaffolding-machine. No. 1,363,749; Dec. 28; v. 281; p. 683.
Peterson, Frank W., Peoria, Ill. Electric incandescent lamp. No. 1,341,581; May 25; v. 274; p. 759.
Peterson, Hall J., Isanti, Minn. Latch. No. 1,338,153; Apr. 27; v. 273; p. 668.
Peterson-Harnden Fluid Clutch Co. (See Peterson, Peter R., assignor.)
Peterson, Harry H., Richvale, Calif. Binder-truck. No. 1,360,975; Nov. 30; v. 280; p. 957.
Peterson, Horace J., Montpelier, Idaho. Selective cooling and heating system for automobile-radiators. No. 1,353,418; Sept. 21; v. 278; p. 428.
Peterson, Johan A. (See Andersson, Karl G., assignor.)
Peterson, Johan G., Jersey City, N. J. Electric switch. No. 1,361,287; Dec. 7; v. 281; p. 61.
Peterson, Johann G., Jersey City, N. J. Electric switch. No. 1,330,390; Feb. 10; v. 271; p. 227.
Peterson, John, *et al.* (See Johnson, Albert S., assignor.)
Peterson, John, *et al.* (See Kirkpatrick, Frank M., assignor.)
Peterson, John, North Mankato, Minn. Stove leg and caster. No. 1,353,784; Sept. 21; v. 278; p. 501.
Peterson, John M., and J. Meredith, Newcastle-upon-Tyne, England. Door-handle-locking device. No. 1,348,047; July 27; v. 276; p. 716.
Peterson, Jonathan, Brooklyn, N. Y. Pocket box or container. No. 1,344,650; June 29; v. 275; p. 843.
Peterson, Julius C., Spokane, Wash. Sweatband for hats. No. 1,349,472; Aug. 10; v. 277; p. 313.
Peterson, Karl G., Oakland, Calif. Automobile-spring. No. 1,362,037; Dec. 14; v. 281; p. 258.
Peterson, Karl W., Göttenborg, Sweden. Ball-bearing cage. No. 1,361,177; Dec. 7; v. 281; p. 39.
Peterson, Louis P., Enderlin, N. D. Attachment for internal-combustion engines. No. 1,350,385; Aug. 24; v. 277; p. 610.
Peterson, Marinus, Kenmare, N. D. Aeroplane. No. 1,350,938; Aug. 24; v. 277; p. 717.
Peterson, Niels, St. Anthony, Idaho. Tractor-wheel. No. 1,353,068; Sept. 14; v. 278; p. 300.
Peterson, Oscar A., and O. M. Brancel, Minneapolis, Minn. Vulcanizing-tool. No. 1,344,313; June 22; v. 275; p. 711.
Peterson, Oscar F. (See Smith, Jonathan J., assignor.)
Peterson, Otto T. (See Johnson, L. T., Erickson, and Peterson.)
Peterson, Per A., New York, N. Y. Combination implement. No. 1,341,759; June 1; v. 275; p. 29.
Peterson, Per A., New York, N. Y. Crumb pan and brush. No. 1,349,582; Aug. 17; v. 277; p. 409.
Peterson, Peter J. A., assignor of one-half to O. B. Orres, Pine River, Minn. Nut-lock and rail-joint protector. No. 1,351,786; Sept. 7; v. 278; p. 14.
Peterson, Peter R., Salt Lake City, Utah. Rim-tool. No. 1,335,795; Apr. 6; v. 273; p. 17.
Peterson, Peter R., Salt Lake City, Utah. Gas-engine. No. 1,347,055; July 20; v. 276; p. 462.
Peterson, Peter R., assignor to Peterson-Harnden Fluid Clutch Co., Salt Lake City, Utah. Power-transmission machine. No. 1,354,209; Sept. 28; v. 278; p. 631.
Peterson, Peter R., assignor to Peterson-Harndon Fluid Clutch Company, Salt Lake City, Utah. Power-transmission mechanism. No. 1,363,810; Dec. 28; v. 281; p. 695.
Peterson, Ray H., Boise, Idaho. Hand-brake mechanism. No. 1,333,092; Mar. 9; v. 272; p. 226.
Peterson, Victor E., Minneapolis, Minn. Cord-cutter. No. 1,349,627; Aug. 17; v. 277; p. 417.
Peterson, Victor H., Waverley, Mass. Tool. No. 1,352,688; Sept. 14; v. 278; p. 224.
Peterson, Walter R., assignor, by mesne assignments, to International Harvester Company, Chicago, Ill. Folding end-gate. No. 1,362,818; Dec. 21; v. 281; p. 463.
Peterson, Willie, Newark, N. J. Comb. No. 1,361,612; Dec. 7; v. 281; p. 128.
Petersson, Elias F., assignor to The Metals Extraction Corporation Limited, London, England. Treatment of zinc solutions. No. 1,363,052; Dec. 21; v. 281; p. 508.
Petey, Louis F., Rhinelander, Wis. Tire-protector. No. 1,337,950; Apr. 20; v. 273; p. 561.
Petherick Patent Advertising System, The. (See Petherick, Percival E., assignor.)
Petherick, Percival E., Gisborne, New Zealand, assignor to The Petherick Patent Advertising System Limited, Auckland, New Zealand. Lantern-slide-displaying apparatus. No. 1,354,682; Oct 5; v. 279; p. 47.
Petigor, Morris H. (See Adams, Edward M., assignor.)
Petinot, Napoleon, New York, N. Y. Producing articles of iron silicid. No. 1,346,333; July 13; v. 276; p. 261.
Petinot, Napoleon, assignor to United States Ferro-Alloys Corporation, New York, N. Y. Producing an alloy of zirconium and lead. No. 1,335,982; Apr. 6; v. 273; p. 53.
Petinot, Napoleon, assignor to United States Ferro-Alloys Corporation, New York, N. Y. Producing alloys containing zirconium carbid. No. 1,335,983; Apr. 6; v. 273; p. 53.
Petit, Arthur G., Southbridge, Mass. Knockdown box. No. 1,340,248; May 18; v. 274; p. 433.
Petit, Arville H., Huntington, W. Va. Automatic trap-nest. No. 1,345,229; June 29; v. 275; p. 953.
Petit, Henri, Ermont, France. Mean-speed indicator. No. 1,350,620; Aug. 24; v. 277; p. 656.
Petlak, Aleck. (See Petriw, A., and Petlak.)
Petrauskas, William, assignor of one-half to J. Taraseviczia, Baltimore, Md. Creeper-plate. No. 1,335,387; Mar. 30; v. 272; p. 825.
Petrelli, Joseph V., assignor to The Navy Gear Manufacturing Corporation, New Haven, Conn. Reversing mechanism. No. 1,337,531; Apr. 20; v. 273; p. 481.
Petrequin, Frederic J., St. Genevieve, Mo. Solenoid-operated antenna-switch. No. 1,334,396; Mar. 23; v. 272; p. 578.
Petri and Jones Company. (See Petri, Gunther H., assignor.)
Petri, Gunther H., Brookline, assignor to Petri and Jones Company, Inc., Boston, Mass. Dough-forming machine. No. 1,355,908; Oct. 19; v. 279; p. 379.
Petrie, Edward G., Irvington, N. J. Search or pocket light support. No. 1,362,177; Dec. 14; v. 281; p. 285.
Petrie, Enos B., Brooklyn, N. Y. Seagoing apparatus for raising sunken vessels. No. 1,363,266; Dec. 28; v. 281; p. 590.
Petrie, Robert E., Chicago, Ill. Engine-attaching means for vehicles. No. 1,326,960; Jan. 6; v. 270; p. 15.
Petrilli, Harry E., Boston, assignor of one-half to E. P. Scigliano, East Boston, Mass. Crank-rod connection. No. 1,330,607; Feb. 10; v. 271; p. 267.
Petriw, Aleck, and A. Petlak, Goodeve, Saskatchewan, Canada. Nut-lock. No. 1,346,975; July 20; v. 276; p. 446.
Petro, George, Beaver Falls, Pa. Safety device for railways. No. 1,358,242; Nov. 9; v. 280; p. 261.

Digitized by Google

Petroske, John J. (See Starkenberg, Karl R., assignor.)
Petrov, Arthur, Wapella, Saskatchewan, Canada. Pump. No. 1,341,194; May 25; v. 274; p. 684.
Petrovic, Tony N., Pictou, Colo. Spring-wheel. No. 1,339,132; May 4; v. 274; p. 91.
Petrovics, Fred J., Chicago, Ill. Electric fuse. No. 1,337,949; Apr. 20; v. 273; p. 561.
Petrovitch, John, Cleveland, Ohio. Airplane-wing. No. 1,353,179; Sept. 21; v. 278; p. 382.
Petrucci, Paolo A., Pittsburgh, Pa. Water-heater for boilers. No. 1,346,334; July 13; v. 276; p. 261.
Petrusavage, Peter, Mahanoy City, Pa. Antisubmarine device. No. 1,342,064; June 1; v. 275; p. 88.
Petry, Clayton H. (See Lorenson, Lorens C., assignor.)
Petry, Nicholas A., Philadelphia, Pa. Muffler cut-out. No. 1,339,284; May 4; v. 274; p. 117.
Petrymusz, Joseph. (See Jurzina, Joseph, assignor.)
Pet-Son Pump Company, The. (See Peters, Theodore, assignor.)
Pettengill, George M., Haverhill, Mass., assignor to Hamel Shoe Machinery Company. Heel-nailing machine. No. 1,345,876; July 6; v. 276; p. 107.
Petters Limited. (See Brooks, Herbert, assignor.)
Petterson, Arthur R., Worcester, Mass. Internal-combustion engine. No. 1,357,512; Nov. 2; v. 280; p. 58.
Petterson, Bertill C. (See Petterson, Simon G. and B. C.)
Petterson, Magnus, Long Beach, Calif. Air-cushion device. No. 1,359,838; Nov. 23; v. 280; p. 666.
Petterson, Simon G. and B. C., Pine Bluff, Ark. Toy wagon. No. 1,328,760; Jan. 20; v. 270; p. 450.
Pettey, Claudius M., Roaring River, N. C. Aeroplane. No. 1,360,976; Nov. 30; v. 280; p. 958.
Petteys, Willard A., Wilcox, Nebr. Grain cleaner, separator, and drier. No. 1,345,230; June 29; v. 275; p. 953.
Petti, Ralph, assignor to The Singer Manufacturing Company, Bridgeport, Conn. Sewing-machine loop-taker. No. 1,351,869; Sept. 7; v. 278; p. 31.
Pettibone, Charles L., Detroit, Mich. Thread-gage. No. 1,339,573; May 11; v. 274; p. 248.
Pettibone, John C., Ansonia, Conn. Wrench-handle. No. 1,359,423; Nov. 16; v. 280; p. 539.
Pettigrew, Garfield, Elwood, Ind. Speed-reducing device for aeroplanes. No. 1,356,990; Oct. 26; v. 279; p. 641.
Pettis, Edson S., Mill Valley, Calif. Drum-filter wiring. No. 1,327,962; Jan. 13; v. 270; p. 263.
Pettit, John, Taft, Calif. Oil-pump. No. 1,350,930; Aug. 24; v. 277; p. 717.
Pettit, John R., New York, N. Y. Rubber heel. No. 1,350,332; Aug. 24; v. 277; p. 559.
Pettitt, Frank R., Portland, Oreg. Heater. No. 1,351,342; Aug. 31; v. 277; p. 860.
Petty, William M., Laramie, Wyo. Stock-guard. No. 1,357,896; Nov. 2; v. 280; p. 133.
Pettys, Linden I., Chase Mills, N. Y. Rifle. No. 1,357,513; Nov. 2; v. 280; p. 59.
Peugeot, Robert, Valentigney, France. Electrical generator with counter compounding. No. 1,363,167; Dec. 21; v. 281; p. 530.
Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Slack-adjuster. No. 1,329,008; Jan. 27; v. 270; p. 527.
Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Brake mechanism. No. 1,329,009; Jan. 27; v. 270; p. 527.
Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Brake mechanism. No. 1,329,010; Jan. 27; v. 270; p. 527.
Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Release-spring-supporting means. No. 1,335,184; Mar. 30; v. 272; p. 787.
Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Brake mechanism. No. 1,335,185; Mar. 30; v. 272; p. 787.
Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Means for supporting and leveling brakes. No. 1,335,186; Mar. 30; v. 272; p. 787.
Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Brake supporting and leveling device. No. 1,335,187; Mar. 30; v. 272; p. 788.
Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Brake-supporting means. No. 1,335,188; Mar. 30; v. 272; p. 788.
Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Brake arrangement. No. 1,335,189; Mar. 30; v. 272; p. 788.
Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Brake means. No. 1,335,190; Mar. 30; v. 272; p. 788.
Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Brake-beam fulcrum. No. 1,335,914; Apr. 6; v. 273; p. 40.
Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Brake-rigging arrangement. No. 1,339,413; May 11; v. 274; p. 217.
Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Brake mechanism. No. 1,339,414; May 11; v. 274; p. 217.
Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Brake-rigging. No. 1,339,415; May 11; v. 274; p. 217.
Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Brake supporting and leveling device. No. 1,339,416; May 11; v. 274; p. 217.
Peyer, John, New York, N. Y. Tool for alining and fitting machine parts. No. 1,352,311; Sept. 7; v. 278; p. 115.
Pfaff, Joseph. (See Scheler, Frank, assignor.)
Pfahler, Christian G., assignor of one-half to C. C. Parsons, Leipsic, Ohio. Oil-burner for stoves. No. 1,331,167; Feb. 17; v. 271; p. 441.
Pfanstiehl, Carl, Highland Park, Ill., assignor to Special Chemicals Company. Metamorphous sal ammoniac, (ammonium chlorid.) No. 1,337,665; Apr. 20; v. 273; p. 506.
Pfanstiehl Company. (See Balke, Clarence W., assignor.)
Pfanstiehl Company, Incorporated. (See Dady, Arthur O., assignor.)
Pfau, Arnold, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Valve device. No. 1,332,000; Feb. 24; v. 271; p. 618.
Pfau, William F., Cincinnati, Ohio. Wheel. No. 1,339,574; May 11; v. 274; p. 248.
Pfaudler Company, The. (See Douglas, Ira C., assignor.)
Pfeffer, Oscar W., assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Fuel-pump. No. 1,349,005; Aug. 10; v. 277; p. 221.
Pfeffer, Rose, San Jose, Calif. Cooking utensil. No. 1,348,048; July 27; v. 276; p. 716.
Pfeifer, Adolph, Chicago, Ill. Hair-cutter. No. 1,337,263; Apr. 20; v. 273; p. 430.
Pfeifer, Frederick W., St. Louis, Mo. Folding cot and stretcher. No. 1,350,516; Aug. 24; v. 277; p. 636.
Pfeifer, John, assignor to The Springfield Auto Lock Company, Springfield, Ohio. Lock for steering-wheels for motor-vehicles. No. 1,363,432; Dec. 28; v. 281; p. 621.
Pfeifer, Leo L., Columbus, Ohio. Vehicle-lamp door. No. 1,354,512; Oct. 5; v. 279; p. 13.
Pfeiffer, Adolph X., St. Louis, Mo. Tire-armor. No. 1,332,001; Feb. 24; v. 271; p. 619.
Pfeiffer, Fred B., Akron, Ohio. Tire-vulcanizing device. No. 1,327,841; Jan. 13; v. 270; p. 241.
Pfeiffer, S., Manufacturing Company. (See Lazarus, Willis H., assignor.)
Pfeil, Anthony P., East Orange, and F. H. Baum, Jersey City, N. J. Portable-baking-hearth equipment. No. 1,362,178; Dec. 14; v. 281; p. 286.
Pfeil, Elmer C., Fostoria, Ohio, and H. O. Bemisderfer, Hammond, Ind., assignors to Central Railway Signal Company, Pittsburgh, Pa. Railway signal-torpedo. No. 1,343,841; June 15; v. 275; p. 554.
Pfeil, Frank L. H. (See Steigerwald and Pfeil.)
Pfersch, Clarence L., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Card-matches. No. 1,339,975; May 11; v. 274; p. 324.
Pfister, George J., St. Paul, Minn. Cutter. No. 1,340,137; May 11; v. 274; p. 355.
Pfisterer, Harry W., Philadelphia, Pa. Cooking-utensil lid. No. 1,361,348; Dec. 7; v. 281; p. 74.
Pfitzer, Adolf. (See Kiefer, Otto G., assignor.)
Pfiager, Harry M., St. Louis, Mo. Mounting for locomotive booster-motors. No. 1,357,928; Nov. 2; v. 280; p. 139.
Pfiager, Harry M., assignor to Commonwealth Steel Company, St. Louis, Mo. Car-truck. No. 1,358,016; Nov. 9; v. 280; p. 217.
Pfianze, Charles F., St. Louis, Mo. Safety device for paper-cutting machines. No. 1,332,856; Mar. 2; v. 272; p. 130.
Pfianze, Charles F., St. Louis, Mo. Machine for attaching strings to envelops. No. 1,340,909; May 25; v. 274; p. 628.
Pfianze, Charles F., St. Louis, Mo. Transferring device. No. 1,345,950; July 6; v. 276; p. 123.
Pfianze, Charles F., St. Louis, Mo. Machine for making window-envelops. No. 1,361,545; Dec. 7; v. 281; p. 115.
Pfiaster, Simon, New York, N. Y. Exhibiting device. No. 1,328,192; Jan. 13; v. 270; p. 307.
Pfiaume, Julius R., Chicago, Ill., assignor to Meteor Motor Company. Engine. No. 1,343,473; June 15; v. 275; p. 480.
Pflueger, Charles T. (See Pflueger, Ernest A. and C. T.)
Pflueger, Ernest A. and C. T., assignors to The Enterprise Manufacturing Company, Akron, Ohio. Fishing-tackle. No. 1,339,832; May 11; v. 274; p. 297.
Pflueger, John L., New Orleans, La. Parachute and launching device for aeroplanes. No. 1,327,355; Jan. 6; v. 270; p. 88.
Pfouts, Leroy S., assignor, by mesne assignments, to The Miller Pasteurizing Machine Company, Canton, Ohio. Liquid-treating apparatus. No. 1,352,215; Sept. 7; v. 278; p. 96.
Pfrogner, Frank. (See Leatherman and Pfrogner.)
Pfund, August H. (See Grondahl, L. O., and Pfund.)
Pfund, August H., Baltimore, Md. Colorimetry of paints and pigments. No. 1,350,386; Aug. 24; v. 277; p. 610.
Pfund, Lewis J. (See Foerster, T. J., and Pfund.)
Pfunder, Louise M., Portland, Oreg. Thread holding and cutting attachment for spools. No. 1,350,881; Aug. 24; v. 277; p. 706.
Phelan, John C. (See Marvin, P. B., and Phelan.)

Digitized by Google

Phelan, Richard, Oakland, and F. Bendix, San Francisco, Calif. Berth. No. 1,350,081; Aug. 17; v. 277; p. 505.
Phelps, Benson M. (See Johnson, B. H., and Phelps.)
Phelps Can Company. (See Phelps, Walter J., assignor.)
Phelps Dodge Corporation. (See Robinson, Eugene C., assignor.)
Phelps, E. B., A. F. Stevenson, Ridgewood, and J. C. Baker, Ridgefield Park, N. J., assignors to A. W. Johnston, New York, N. Y. Manufacture of milk-fats. No. 1,354,683; Oct. 5; v. 279; p. 47.
Phelps, Earle B. (See North, Charles E., assignor.)
Phelps, Edwin S., Elizabeth, N. J. Elapsed-time register. No. 1,356,883; Oct. 26; v. 279; p. 618.
Phelps, Joseph, Belleville, N. J., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,346,607; July 13; v. 276; p. 314.
Phelps, Joseph, Belleville, N. J., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,356,827; Oct. 26; v. 279; p. 607.
Phelps, Joseph, Belleville, N. J., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,356,884; Oct. 26; v. 279; p. 618.
Phelps, Leonard M., Philadelphia, Pa. Means for automatically closing windows. No. 1,341,155; May 25; v. 274; p. 676.
Phelps, Leonard M., Philadelphia, Pa. Closure-operator. No. 1,358,107; Nov. 9; v. 280; p. 235.
Phelps, Lucius J., San Diego, Calif. Irreversible steering-gear. No. 1,328,761; Jan. 20; v. 270; p. 450.
Phelps Manufacturing Company. (See Phelps, Morton F., assignor.)
Phelps, Morton F., assignor to Phelps Manufacturing Company, Limited, Little Rock, Ark. Self-alining fan-wheel. No. 1,345,951; July 6; v. 276; p. 123.
Phelps, Morton F., assignor to Phelps Manufacturing Company, Limited, Little Rock, Ark. Self-alining fan-wheel. No. 1,345,952; July 6; v. 276; p. 124.
Phelps, Spencer H., assignor to Beeman Garden Tractor Company, Minneapolis, Minn. Support for agricultural-implement steering-posts. No. 1,331,448; Feb. 17; v. 271; p. 493.
Phelps, Spencer H., assignor to Beeman Tractor Company, Minneapolis, Minn. Tractor-hitch. No. 1,358,392; Nov. 9; v. 280; p. 292.
Phelps, Theophilus I., Lewiston, N. C. Peanut-picking machine. No. 1,328,295; Jan. 20; v. 270; p. 363.
Phelps, Vaughan R., Akron, Ohio. Fabric-stock shell. No. 1,357,345; Nov. 2; v. 280; p. 28.
Phelps, Walter J., assignor to Phelps Can Company, Baltimore, Md. Machine for setting up cartons. No. 1,333,130; Mar. 9; v. 272; p. 233.
Phelps, Walter J., Baltimore, Md., assignor to Phelps Can Company, Weirton, W. Va. Can-tester. No. 1,344,515; June 22; v. 275; p. 751.
Phelps, William S. (See Johnson, B. H., and Phelps, assignors.)
Philadelphia Drying Machinery Company, The. (See Allsop, T., and Sibson, assignors.)
Philadelphia Drying Machinery Company, The. (See Parkes, Bertrand A., assignor.)
Philadelphia Metal Drying Form Company. (See Messinger, William, assignor.)
Philadelphia Roll & Machine Company. (See Crook, Alfred, assignor.)
Philadelphia Storage Battery Company. (See Bottone, Victor R., assignor.)
Philadelphia Storage Battery Company. (See Holland and Pearson, assignors.)
Philadelphia Storage Battery Company. (See Holland and Skinner, assignors.)
Philadelphia Textile Machinery Company, The. (See Ayres, E. B., and Rhoads, assignors.)
Philadelphia Textile Machinery Company, The. (See Ayres, E. B., and Rihl, assignors.)
Philadelphia Textile Machinery Company, The. (See Blatz, Frederick J., assignor.)
Philadelphia Textile Machinery Company, The. (See Hurxthal, Alpheus O., assignor.)
Philadelphia Textile Machinery Company, The. (See Palen, W. D., and Bogaty, assignors.)
Philadelphia Textile Machinery Company, The. (See Schwartz, W. M., and Ayers, assignors.)
Philadelphia Textile Machinery Company. (See Schwartz, W. M., and Kershaw, assignors.)
Philadelphia Textile Machinery Company, The. (See Schwartz, Walter M., assignor.)
Philbrook, Edward F., Jr., Kansas City, Mo. Stand. No. 1,343,229; June 15; v. 275; p. 434.
Philipp, Herbert. (See Foersterling, H., Philipp, and Sargent.)
Philippi, Theodore F., East St. Louis, Ill. Crusher. No. 1,333,727; Mar. 16; v. 272; p. 406.
Philippi, Theodore F., East St. Louis, Ill. Crusher. No. 1,358,782; Nov. 16; v. 280; p. 415.
Philips-Brinton Company. (See Brinton, William C., Jr., assignor.)
Philips, Herman B., New York, N. Y. Surgeon's plaster-knife. No. 1,336,376; Apr. 6; v. 273; p. 127.
Phillips, Austave P., Atlanta, Ga., assignor, by mesne assignments, to The Footograph Company. Foot-measuring device. No. 1,331,823; Feb. 24; v. 271; p. 585.
Phillips, Brace A., Philadelphia, Pa. Combined steam and hot-air generator. No. 1,363,530; Dec. 28; v. 281; p. 641.
Phillips, Burland J., Buffalo, N. Y. Relieving attachment for lathes or the like. No. 1,350,735; Aug. 24; v. 277; p. 679.
Phillips, Cecil O., New York, N. Y. Treatment of cotton-seed meats. No. 1,347,870; July 27; v. 276; p. 680.
Phillips, Charles J., Spencer, Iowa. Grain-door for box-cars. No. 1,330,031; Feb. 3; v. 271; p. 128.
Phillips & Clark Stove Co. (See Beers, Edward C., assignor.)
Phillips, Edward E., Syracuse, N. Y. Bottle-capping machine. No. 1,349,097; Aug. 10; v. 277; p. 239.
Phillips, Ellis J. G., assignor to Richards-Wilcox Manufacturing Company, Aurora, Ill. Means for slidingly supporting folding doors. No. 1,357,299; Nov. 2; v. 280; p. 19.
Phillips, Erbine C., New York, N. Y., assignor of one-half to F. H. Johnston, Chicago, Ill. Card system. No. 1,360,574; Nov. 30; v. 280; p. 879.
Phillips, Errett E., New Castle, Pa. Excavating apparatus. No. 1,356,008; Oct. 19; v. 279; p. 399.
Phillips, Francis J., and E. J. Rose, London, England. Manufacture of readily-soluble silicates. No. 1,357,183; Oct. 26; v. 279; p. 676.
Phillips, Francis L., Tugaske, Saskatchewan, Canada. Grain-pickler. No. 1,327,444; Jan. 6; v. 270; p. 105.
Phillips, Frank A., assignor to Phillips & Slack, Inc., Northfield, Vt. Edge-lining machine. No. 1,327,928; Jan. 13; v. 270; p. 256.
Phillips, Frank G., Vancouver, British Columbia, Canada. Means for salvaging submerged vessels. No. 1,328,014; Jan. 13; v. 270; p. 273.
Phillips, Fred V., assignor of one-half to G. R. Cogswell, Rome, N. Y. Bottle-cap. No. 1,344,516; June 22; v. 275; p. 751.
Phillips, George W., Sawyer, Kans. Sharpener. No. 1,337,154; Apr. 13; v. 273; p. 335.
Phillips, Gordon, Cobalt, Ontario, Canada. Air-compressor. No. 1,331,209; Feb. 17; v. 271; p. 449.
Phillips, James B., Jr., Longcreek, S. C. Window-lock. No. 1,331,721; Feb. 24; v. 271; p. 565.
Phillips, James E., Chicago, Ill. Calendar accounting means. No. 1,340,018; May 25; v. 274; p. 650.
Phillips, John E., Birmingham, England. Guard for power-presses. No. 1,329,011; Jan. 27; v. 270; p. 527.
Phillips, John G., assignor to Iten Biscuit Co., Omaha, Nebr. Packaging apparatus. No. 1,330,816; Feb. 17; v. 271; p. 374.
Phillips, John H., Yonkers, N. Y. Article of furniture. No. 1,344,277; June 22; v. 275; p. 704.
Phillips, John H., Jr., Jackson, Mich. Flexible pipe. No. 1,327,632; Jan. 13; v. 270; p. 202.
Phillips, Julia C., New York, N. Y. Wardrobe device. No. 1,334,397; Mar. 23; v. 272; p. 578.
Phillips, Lewis F. (See Truesdell, A. E., and Phillips.)
Phillips, Lucius A., assignor of one-half to J. A. Martin and one-half to V. P. Martin, Los Angeles, Calif. Gas-burning device. No. 1,333,218; Mar. 9; v. 272; p. 249.
Phillips, Max, Evansville, Wis. Synthetic manufacture of thymol. No. 1,332,680; Mar. 2; v. 272; p. 96.
Phillips, Max, Evansville, Wis. Manufacture of chloroform. No. 1,359,099; Nov. 16; v. 280; p. 475.
Phillips, Reed, Salem, Ind. Chain-fastener. No. 1,330,341; Feb. 10; v. 271; p. 218.
Phillips, Richard C. (See Gilberthorpe, George L., assignor.)
Phillips & Slack, Inc. (See Chase, Elroy A., assignor.)
Phillips & Slack, Inc. (See Phillips, Frank A., assignor.)
Phillips, Walter C., assignor to Guaranteed Tractors, Inc., Chicago, Ill. Tractor attachment for automobiles. No. 1,327,773; Jan. 13; v. 270; p. 228.
Phillips, Walter W., Jersey City, N. J. Stair-carpet retainer. No. 1,355,775; Oct. 12; v. 279; p. 313.
Phillips, William, Rochester, N. Y. Lens-blank setter for lens-grinding machines. No. 1,332,681; Mar. 2; v. 272; p. 96.
Phillips, William W., Richmond, Va. Automatic coupling. No. 1,349,433; Aug. 10; v. 277; p. 306.
Phillips, Willie O., Fort Worth, Tex. Peanut-harvester. No. 1,357,115; Oct. 26; v. 279; p. 663.
Phillipson, Emil, assignor to Plant & Company, New York, N. Y. Electric fan. No. 1,328,055; Jan. 13; v. 270; p. 281.
Philo, Frank G., Elmhurst, N. Y. Multiple draft and pressure gage. No. 1,341,582; May 25; v. 274; p. 759.
Phinney, Edgar E., assignor to Monroe Calculating Machine Company, New York, N. Y. Calculating-machine. No. 1,330,651; Feb. 10; v. 271; p. 275.
Phinney, Edgar E., assignor to Monroe Calculating Machine Company, New York, N. Y. Carriage-shifting means for calculating-machines. No. 1,330,652; Feb. 10; v. 271; p. 275.
Phinney, Edgar E., assignor to Monroe Calculating Machine Company, New York, N. Y. Zero-setting mechanism for calculating-machines. No. 1,330,653; Feb. 10; v. 271; p. 276.
Phinney, Edgar E., West Orange, assignor to Monroe Calculating Machine Company, Orange, N. J. Automatic carriage-raising means for calculating-machines. No. 1,335,349; Mar. 30; v. 272; p. 818.

Digitized by Google

Alphabetical list of patentees—Continued.

Phinney, Edgar E., West Orange, assignor to Monroe Calculating Machine Company, Orange, N. J. Over-rotation check for calculating-machine gears. No. 1,349,628; Aug. 17; v. 277; p. 417.
Phinney, Edgar E., assignor to Monroe Calculating Machine Company, New York, N. Y. Keyboard-clearing means for registers. No. 1,354,839; Oct. 5; v. 279; p. 78.
Phinney, Edgar E., assignor to Monroe Calculating Machine Company, New York, N. Y. Calculating-machine. No. 1,354,840; Oct. 5; v. 279; p. 78.
Phinney, Edgar E., assignor to Monroe Calculating Machine Company, New York, N. Y. Carrying mechanism for calculating-machines. No. 1,354,841; Oct. 5; v. 279; p. 78.
Phinney, Guy H., and E. A. Pophal, St. Paul, Minn. Lithograph ruling-machine. No. 1,331,966; Feb. 24; v. 271; p. 611.
Phipps, Edward, San Francisco, Calif. Work-clamping device. No. 1,363,433; Dec. 28; v. 281; p. 621.
Phipps, Frank L., *et al.* (See Baumgardner, Frank J., assignor.)
Phipps, Walter H., Baldwin, assignor to Ordnance Engineering Corporation, New York, N. Y. Multiple control for aeroplanes. No. 1,355,355; Oct. 12; vol. 279; p. 232.
Phister, Albert B., Fort Thomas, Ky., and B. H. Phister, Chicago, Ill. Fire-extinguisher. No. 1,356,657; Oct. 26; v. 279; p. 574.
Phister, Benjamin H. (See Phister, Albert B. and B. H.)
Phoebus E. G., Company. (See Boltshauser, Conrad, assignor.)
Phoenix Glass Company. (See Stewart, Frederick W., assignor.)
Phoenix Hardening Equipment Company, The. (See Radabaugh, Noah B., assignor.)
Phoenix Knitting Works. (See Schwab, Edward C., assignor.)
Phonograph Company, The. (See Reynolds, George L., assignor.)
Phonoharp Company, The. (See Nickerson, Frederick M., assignor.)
Piateski, James, New Kensington, Pa. Water-bicycle. No. 1,332,634; Mar. 2; v. 272; p. 88.
Piatt, Joseph W., New York, N. Y. Gas-heater. No. 1,352,473; Sept. 14; v. 278; p. 181.
Piazza, Lorenzo, assignor to H. A. Beesley, Los Angeles, Calif. Banjo. No. 1,334,631; Mar. 23; v. 272; p. 622.
Piazzi, Antonio, Gallarate, Italy. Lamp-holder of the Edison type. No. 1,362,734; Dec. 21; v. 281; p. 446.
Picard, Hugh F. K. (See Sulman, H. L., and Picard.)
Picard, Stanislas S., Providence, R. I. Tension thread-guide. No. 1,330,817; Feb. 17; v. 271; p. 374.
Picard, Stanislas S., Providence, R. I. Driving-disk and carrier for braiding-machines. No. 1,331,369; Feb. 17; v. 271; p. 478.
Picard, Stanislas S., Providence, R. I. Carrier for braiding-machines. No. 1,337,155; Apr. 13; v. 273; p. 335.
Picciani, Paskal, Monessen, Pa. Galvanizing apparatus. No. 1,363,811; Dec. 28; v. 281; p. 695.
Piccioni, Gino, Tivoli, Italy. Multiple reproduction of patterns. No. 1,340,460; May 18; v. 274; p. 473.
Pichl, Anthony J., St. Louis, Mo. Carbureter. No. 1,343,983; June 22; v. 275; p. 646.
Picht, Walter E., Seattle, Wash. Preserving bait. No. 1,358,985; Nov. 16; v. 280; p. 455.
Pick, Albert, & Company. (See Pick, Hugo, assignor.)
Pick, Arthur. (See Coultas and Pick.)
Pick, Hugo, assignor to Albert Pick & Company, Chicago, Ill. Match-box. No. 1,329,012; Jan. 27; v. 270; p. 527.
Pick, Paul W., Portland, Oreg. Sanitary non-spillable milk-bucket. No. 1,342,569; June 8; v. 275; p. 240.
Pickard, E. R., and E. C. Platts, Eugene, Oreg. Socket. No. 1,359,424; Nov. 16; v. 280; p. 539.
Pickelsimer, Otus, Greenville, S. C. Ironer and molder for overalls and trousers. No. 1,354,438; Sept. 28; v. 278; p. 677.
Pickens, Julius A., Easley, S. C. Electric furnace. No. 1,337,156; Apr. 13; v. 273; p. 335.
Pickens, Julius A., and W. F. Hester, Easley, S. C. Elevator mechanism. No. 1,342,596; June 8; v. 275; p. 245.
Pickering, Leonard B., *et al.* (See Sargent, Herbert L., assignor.)
Pickett, James H., Queen, N. Mex. Gate. No. 1,350,235; Aug. 17; v. 277; p. 534.
Pickett, Oscar A., Dover, N. J. Cigar-holder. No. 1,335,698; Mar. 30; v. 272; p. 883.
Pickett, Sterling P., Madison, Mo. Windmill-wheel. No. 1,333,675; Mar. 16; v. 272; p. 397.
Pickin, Rowland O., Seattle, Wash. Rotary rock-drill bit. No. 1,334,632; Mar. 23; v. 272; p. 622.
Pickop, George B., New Haven, assignor to The Malleable Iron Fittings Company, Branford, Conn. Vibrator. No. 1,336,921; Apr. 13; v. 273; p. 291.
Pickop, George B., New Haven, assignor to The Malleable Iron Fittings Company, Branford, Conn. Grease-cup. No. 1,345,953; July 6; v. 276; p. 124.
Pickup, George E., assignor of one-half to F. Harlow and J. Steinbaugh, Newark, Ohio. Fish-bait. No. 1,346,674; July 13; v. 276; p. 327.
Pickup, John H., Philadelphia, Pa., assignor of one-half to G. A. Wilson, New York, N. Y. Treating fibers. No. 1,350,621; Aug. 24; v. 277; p. 657.
Pico, Albert P. F., Kansas City, Mo. Autographic register. No. 1,329,676; Feb. 3; v. 271; p. 62.
Picotte, George, Howard township, Charles Mix county, S. D. Stock-feeder. No. 1,333,775; Mar. 16; v. 272; p. 415.
Picotte, George A., Lake Andes, S. D. Carbureter. No. 1,333,776; Mar. 16; v. 272; p. 415.
Piel, G., Company, The. (See Long, George F., assignor.)
Piel, Herman L., Jr. (See Schwesinger, George, Jr., assignor.)
Pienta, Peter, Linfield, Pa. Collapsible bookstand. No. 1,341,195; May 25; v. 274; p. 684.
Pieper, Alphonse F. (See Pieper, O. H. and A. F.)
Pieper, Alphonse F. (See Pieper, Oscar H., and A. F.)
Pieper, Chester R., assignor to The Gund Manufacturing Company, La Crosse, Wis. Automatic ratchet. No. 1,328,448; Jan. 20; v. 270; p. 392.
Pieper, Chester R., assignor to Gund Manufacturing Company, La Crosse, Wis. Friction-clutch pulley. No. 1,333,181; Mar. 9; v. 272; p. 233.
Pieper, Henri, Liege, Belgium. Automatic controlling apparatus for mixed driving systems. No. 1,340,249; May 18; v. 274; p. 433.
Pieper, Henry, Trowbridge, Ill. Depth-gage for planters. No. 1,330,608; Feb. 10; v. 271; p. 267.
Pieper, Oscar H. and A. F., Rochester, N. Y. Indicator mechanism. No. 1,328,895; Jan. 27; v. 270; p. 506.
Pieper, Oscar H., and A. F., Rochester, N. Y. Dental engine. No. 1,340,908; May 25; v. 274; p. 628.
Pieper, Oscar H. and A. F., Rochester, N. Y. Electric motor. No. 1,348,239; Aug. 3; v. 277; p. 22.
Pieper, Oscar H. and A. F., Rochester, N. Y. Pulley-guard. No. 1,348,240; Aug. 3; v. 277; p. 22.
Pierce, Albert F. (See Albers, William C., assignor.)
Pierce, Allen B., Syracuse, N. Y. Pressing-machine. No. 1,362,735; Dec. 21; v. 281; p. 446.
Pierce, Arthur E., Portland, Oreg. Umbrella or parasol holder. No. 1,344,245; June 22; v. 275; p. 697.
Pierce, Benjamin W., Alpine, Oreg. Hog-harness. No. 1,362,505; Dec. 14; v. 281; p. 349.
Pierce, Edward, Columbus, Ohio. Motor-vehicle-lever lock. No. 1,333,093; Mar. 9; v. 272; p. 227.
Pierce, Frank M., Chicago, Ill. Anticreep rocking-chair. No. 1,332,406; Mar. 2; v. 272; p. 45.
Pierce Fuse Corporation. (See Candee, B. C., and Moeser, assignors.)
Pierce, George L., Brooklyn, assignor to A. G. Spalding & Bros., New York, N. Y. Golf-bag. No. 1,357,590; Nov. 2; v. 280; p. 73.
Pierce, George P. (See Myers, Clarence E., assignor.)
Pierce, Harry L., East Downingtown, Pa. Aeroplane. No. 1,344,314; June 22; v. 275; p. 711.
Pierce, Harry S., Wilmington, Del. Sash attachment. No. 1,349,168; Aug. 10; v. 277; p. 254.
Pierce, Henry H., Cambridge, Mass. Film-holder. No. 1,336,377; Apr. 6; v. 273; p. 127.
Pierce, James F., Glynrich, assignor to American Vulcanized Fibre Co., Wilmington, Del. Device for cutting tubes. No. 1,345,458; July 6; v. 276; p. 25.
Pierce, James F., Glynrich, assignor to American Vulcanized Fibre Co., Wilmington, Del. Apparatus for forming tubes. No. 1,345,459; July 6; v. 276; p. 26.
Pierce, James F., Glynrich, assignor to American Vulcanized Fibre Co., Wilmington, Del. Apparatus for forming tubes. No. 1,351,870; Sept. 7; v. 278; p. 32.
Pierce, James F., and H. H. Gordon; said Pierce assignor to C. H. Potter, Washington, D. C. Manifold-heater for internal-combustion engines. (Reissue.) No. 15,008; Dec. 14; v. 281; p. 366.
Pierce, James L., Manila, Philippine Islands. Drying-machine. No. 1,356,469; Oct. 19; v. 279; p. 490.
Pierce, James S., Dunkirk, N. Y. Demountable rim. No. 1,340,671; May 18; v. 274; p. 513.
Pierce, John, Jr., South Norwalk, assignor of one-half to D. S. Cummings, Stamford, Conn. Steam-boiler. No. 1,345,231; June 29; v. 275; p. 953.
Pierce, John, Jr., South Norwalk, assignor of one-half to D. S. Cummings, Stamford, Conn. Boiler-unit-assembling rack. No. 1,350,236; Aug. 17; v. 277; p. 534.
Pierce, John O., New York, N. Y. Carpet-beater. No. 1,351,535; Aug. 31; v. 277; p. 898.
Pierce, Mary L., Marlboro, Mass. Pincushion. No. 1,332,750; Mar. 2; v. 272; p. 110.
Pierce, Percy, Philadelphia, Pa. Toy. No. 1,329,062; Jan. 27; v. 270; p. 537.
Pierce, Percy, Dayton, Ohio. Toy aeroplane. No. 1,348,373; Aug. 3; v. 277; p. 48.
Pierce, Raymond C., Hornell, N. Y. Flash-gun. No. 1,337,566; Apr. 20; v. 273; p. 487.
Pierce, Robert C., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Bonded-wire-cable structure and making same. No. 1,339,417; May 11; v. 274; p. 217.
Pierce, Samuel, Organ Pipe Company. (See Hedges, Edwin B., assignor.)
Pierce, Theodore T., Boise, Idaho. Nonskid chain for automobile-tires. No. 1,357,897; Nov. 2; v. 280; p. 133.
Pierce, Vinton U. D., Washington, D. C. Rapid-fire gun. No. 1,353,267; Sept. 21; v. 278; p. 398.

Digitized by Google

Alphabetical list of patentees—Continued.

Pierce, William B. (See Johnson, Arthur E., assignor.)
Pierce, William S., Franklin, Pa. Swage for use in oil-wells. No. 1,327,491; Jan. 6; v. 270; p. 114.
Pierce, Winslow S., Jr., Bayville, N. Y. Lock for nuts and the like. No. 1,343,334; June 15; v. 275; p. 453.
Piercy, John W., and J. R. Howard, Scunthrope, England. Packer for blooms and the like. No. 1,359,195; Nov. 16; v. 280; p. 493.
Pieri, Egildo, New York, N. Y. Camera attachment. No. 1,354,999; Oct. 5; v. 279; p. 109.
Pierman, Alexander N. (See Emerson and Pierman.)
Piernay, Walter, assignor to Stettiner Chamotte-Fabrik Actiengesellschaft vormals Didier, Stettin, Germany. Furnace for burning refuse. No. 1,340,055; July 6; v. 276; p. 144.
Pierre, Henry S., Williamstown, Vt. Antiskid device. No. 1,363,994; Dec. 28; v. 281; p. 730.
Pierrepont, Thomas, Rochester, N. Y. Flashing for window and door frames. No. 1,330,609; Feb. 10; v. 271; p. 267.
Piersantelli, Emilio, Turin, Italy. Bomb-thrower and bomb to be thrown thereby. No. 1,359,425; Nov. 16; v. 280; p. 540.
Piersen, Edwin H., Topeka, Kans. Electric switch. No. 1,339,976; May 11; v. 274; p. 324.
Piersen, Edwin H., Topeka, Kans. Equalizer for variable-tension motors. No. 1,359,464; Nov. 16; v. 280; p. 548.
Piersen, Edwin H., assignor to The Piersen Telegraph Transmitter Company, Topeka, Kans. Telegraph transmitter. (Reissue.) No. 14,910; July 6; v. 276; p. 154.
Piersen, Edwin H., assignor to The Piersen Telegraph Transmitter Company, Topeka, Kans. Telegraph-transmitter. (Reissue.) No. 14,921; July 20; v. 276; p. 547.
Piersen, Edwin H., assignor to The Piersen Manufacturing Company, Topeka, Kans. Telegraph-transmitter. No. 1,359,463; Nov. 16; v. 280; p. 547.
Piersen, Edwin H., assignor to The Piersen Manufacturing Company, Topeka, Kans. Differential escapement. No. 1,359,465; Nov. 16; v. 280; p. 548.
Piersen Manufacturing Company, The. (See Piersen, Edwin H., assignor.)
Piersen Telegraph Transmitter Company. (See Piersen, Edwin H., assignor.) (Reissue.)
Piersol, Robert J., Engelmine, Calif. Ore-separator. No. 1,335,600; Mar. 30; v. 272; p. 864.
Piersol, Robert J., Bentleyville, Pa. Process and apparatus for metal-plating. No. 1,343,842; June 15; v. 275; p. 555.
Pierson, Earl M. (See Pierson, John O. and E. M.)
Pierson, John O., St. John, and E. M. Pierson, Albion, Wash. Grain-treating supply-tank. No. 1,363,053; Dec. 21; v. 281; p. 508.
Pierson, Leonard F., Fredericksburg, Va. Game device. No. 1,359,285; May 4; v. 274; p. 117.
Pierson, Louis B., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tire-trimming table. No. 1,329,849; Feb. 3; v. 271; p. 95.
Pierson, Philip H., San Francisco, Calif. Hospital-bed. No. 1,359,100; Nov. 16; v. 280; p. 475.
Pierson, Willett C., Cleveland, Ohio. Obtaining products from films. No. 1,352,216; Sept. 7; v. 278; p. 96.
Pierson, William D., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Eyelet-machine. No. 1,348,892; Aug. 10; v. 277; p. 199.
Pierson, William D., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Eyelet-machine. No. 1,353,493; Sept. 21; v. 278. p. 442.
Pierson, William D., assignor to The Waterbury Farrel Foundry & Machine Company, Waterbury, Conn. Wire-drawing machine. No. 1,354,336; Sept. 28; v. 278; p. 656.
Pietrobono, Philip, East Hartford, Conn. Rocking-chair attachment. No. 1,346,675; July 13; v. 276; p. 327.
Pietrzycki, Peter. (See Gierymski, S. F., and Pietrzycki.)
Piette, Joseph, St.-Gilles, Brussels, assignor to Societe Franco Belge de Tours a Coke, Societe Anonyme, Brussels, Belgium. Direct recovery of ammonia from distillation-gases. No. 1,356,885; Oct. 26; v. 279; p. 618.
Pifer, George N., assignor to The Postergraph Company, Cleveland, Ohio. Photographic apparatus. No. 1,347,824; July 27; v. 276; p. 671.
Pifer, George N. assignor to The Postergraph Company, Cleveland, Ohio. Making lithographic posters. No. 1,354,001; Sept. 28; v. 278; p. 588.
Pifer, Marie W., Sullivan, Ill. Grapefruit-corer. No. 1,351,216; Aug. 31; v. 277; p. 834.
Pigache, Charles E. and P., Paris, France. Locking device for derailed trolley-arms. No. 1,339,221; May 4; v. 274; p. 106.
Pigache, Pierre. (See Pigache, Charles E. and P.)
Pigeon, Albert M., assignor to Wildman Mfg. Co., Norristown, Pa. Knitting-machine. No. 1,330,818; Feb. 17; v. 271; p. 375.
Pigeon, Albert M., assignor to Wildman M'f'g Co., Norristown, Pa. Anti-thread-ballooning device for knitting-machines. No. 1,340,681; May 18; v. 274; p. 515.
Piggee, Andrew W., assignor of one-half to M. W. Williams, Conway, Ark. Fencepost. No. 1,333,728; Mar. 16; v. 272; p. 406.
Piggins, Charles R. and F. H., Racine, Wis. Steering-post lock. No. 1,347,871; July 27; v. 276; p. 680.
Piggins, Frederick H. (See Piggins, C. R. and F. H.)
Piggot, Charles S., Baltimore, Md. Catalytic acceleration of oxidation process. No. 1,357,000; Oct. 26; v. 279; p. 641.
Piggott, James T., Parkersburg, W. Va. Window-cleaner. No. 1,348,443; Aug. 3; v. 277; p. 61.
Piggott, John T. (See Alexander, E. E., and Piggott.)
Piggly Wiggly Corporation. (See Saunders, Clarence, assignor.)
Pihlfeldt, Thomas G. (See Hartung, Felix, assignor.)
Pihlfeldt, Thomas G., and F. Hartung, Chicago, Ill. Oil-cup. No. 1,347,825; July 27; v. 276; p. 671.
Pihlfeldt, Thomas, and F. C. Hartung, Chicago, Ill. Oil-cup. No. 1,347,826; July 27; v. 276; p. 671.
Pihlfeldt, Thomas G., and F. C. Hartung,. Chicago, Ill. Oil-cup. No. 1,350,566; Aug. 24; v. 277; p. 646.
Pike, Charles F. (See Bradley and Pike.)
Pike, Percy M., *et al.* (See Holland, Walter J., assignor.)
Pike, Robert D., San Francisco, Calif. Molding magnesia-asbestos insulating-coverings. No. 1,356,309; Oct. 19; v. 279; p. 460.
Pilblad, Eric J., and Arthur Tomlinson, assignors to Imperial Typewriting Company Limited, Leicester, England. Tabulator mechanism for typewriting-machines. No. 1,347,757; July 27; v. 276; p. 658.
Pile, John R., assignor to International Farm Implement Company, Owensboro, Ky. Grading-machine. No. 1,340,497; May 18; v. 274; p. 480.
Pilger, William, Center, Colo. Grading-machine. No. 1,363,346; Dec. 28; v. 281; p. 605.
Pilkington, William G., Buffalo, N. Y. Device for transferring and dispensing liquid. No. 1,353,069; Sept. 14; v. 278; p. 300.
Pille, George J. (See Kirchner, Arthur W., assignor.)
Pilling, Henry Chorlton-cum-Hardy, England. Valve-gear for reciprocating steam-engines. No. 1,345,232; June 29; v. 275; p. 954.
Pilling, Henry, Chorlton-cum-Hardy, England. Piston for gas-engines. No. 1,345,233; June 29; v. 275; p. 954.
Pillings, John H., Hamilton, Ohio. Combination-lock. No. 1,355,776; Oct. 12; v. 279; p. 313.
Pillings, John H., assignor to Hooven Automatic Typewriter Corporation, Hamilton, Ohio. Mechanism for automatically operating levers and the like. No. 1,357,514; Nov. 2; v. 280; p. 59.
Pillings, John H., assignor to Hooven Automatic Typewriter Corporation, Hamilton, Ohio. Stop mechanism for automatic typewriting-operating mechanism. No. 1,357,515; Nov. 2; v. 280; p. 59.
Pillings, John H., assignor to Hooven Automatic Typewriter Corporation, Hamilton, Ohio. Typewriter-carriage-operating mechanism. No. 1,360,789; Nov. 30; v. 280; p. 921.
Pillsbury, Edwin S., St. Louis, Mo., assignor, by mesne assignments, to C. H. J. Dilg, New York, N. Y. Oscillating electric fan. No. 1,332,002; Feb. 24; v. 271; p. 619.
Pilon, Alfred. (See Gagnon, Siméon, assignor.)
Pilon, Eugene, Farmpoint, Ontario, Canada. Spring-hook. No. 1,328,193; Jan. 13; v. 270; p. 807.
Pilsbry-Becker Engineering & Supply Company. (See McGinnis, Walter R., assignor.)
Pinal, Julio, Brooklyn, N. Y. Fuel-vaporizer. No. 1,333,573; Mar. 9; v. 272; p. 816.
Pinckney, William R., Little Rock, Ark. Cotton-seed cutter. No. 1,355,777; Oct. 12; v. 279; p. 313.
Pine, James A. W., New York, N. Y., assignor, by mesne assignments, to Blackstone International Corporation. Coating mineral material and product resulting therefrom. No. 1,343,680; June 15; v. 275; p. 522.
Pine None Products Company. (See Hanson, David L., assignor.)
Pine Tree Milking Machine Company. (See Babson, Henry B., assignor.)
Pine Tree Milking Machine Company. (See Macartney, Arthur C., assignor.)
Pine, Wilber J., Oshkosh, Wis. Wire fabric. No. 1,336,154; Apr. 6; v 273; p. 85.
Pines, Wilson, Rogers, Mich. Conveyer. No. 1,352,312; Sept. 7; v. 278; p. 115.
Pinger, George C., New York, N. Y., assignor of one-half to Republic Iron and Steel Company. Apparatus for electroplating. No. 1,336,052; Apr. 6; v. 273; p. 66.
Pink, Andrew W., and C. J. Coughtry, Schenectady, N. Y. Game-board. No. 1,363,750; Dec. 28; v. 281; p. 683.
Pinkerton, Edward E., assignor of one-half to C. H. Hudson, Chicago, Ill. Folding box. No. 1,337,368; Apr. 20; v. 273; p. 450.
Pinkerton, James W., Lodi, and E. Tomlinson, Stockton, Calif., said Tomlinson, assignor to Pinkerton. Double-suction centrifugal pump. No. 1,352,831; Sept. 14; v. 278; p. 253.
Pinkler, Arthur P., Ridgefield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-transmitter. No. 1,330,391; Feb. 10; v. 271; p. 227.
Pinkney, Bryan D., Newport, Ky. Dough mixing and stretching machine. No. 1,363,434; Dec. 28; v. 281; p. 621.
Pinto, Angelo, Coney Island, N. Y. Amusement device. No. 1,350,176; Aug. 17; v. 277; p. 523.

Digitized by Google

Pinto, Carlos P., Buenos Aires, Argentina. Revolver and similar arms. No. 1,342,923; June 8; v. 275; p. 310.
Pinto, Peres A., Montgomery, Ala. Seat-indicator attachment for flash-lights. No. 1,360,575; Nov. 30; v. 280; p. 880.
Pioche, Jean M., Étang-sur-Arroux, France. Circular cutter for tree-felling. No. 1,334,633; Mar. 23; v. 272; p. 622.
Pioneer Broom Company. (See Christopher, William M., assignor.)
Pioneer Brush Washing Machine Company. (See Vierling, Joseph, assignor.)
Pioneer Manufacturing Company. (See Roosa, Frank A., assignor.)
Pioneer Suspender Company. (See Evans, David C., assignor.)
Pipe, Edward H., assignor to Acme Cement Plaster Company, St. Louis, Mo. Plaster-block machine. No. 1,337,618; Apr. 20; v. 273; p. 497.
Pipe, Edward H., assignor to Acme Cement Plaster Company, St. Louis, Mo. Powder-handling machine. No. 1,337,619; Apr. 20; v. 273; p. 497.
Pipenhagen, Charles A., Chicago, Ill. Radiator-shutter. No. 1,336,978; Apr. 13; v. 273; p. 302.
Piper, Alonzo E., White City, Fla. Weeding-machine. No. 1,337,721; Apr. 20; v. 273; p. 517.
Piper, Clarence W., assignor to A. C. Wilcken, St. Paul, Minn. Bed-spring. No. 1,332,682; Mar. 2; v. 272; p. 97.
Piper, Clarence W., assignor to A. C. Wilcken, St. Paul, Minn. Bed-spring fabric. No. 1,335,984; Apr. 6; v. 273; p. 53.
Piper, George M., Cedar Falls, Iowa, assignor, by mesne assignments, to Sharon Hardware Manufacturing Company, Sharon, Pa. Door-hanger. (Reissue.) No. 14,893; June 22; v. 275; p. 771.
Piper, Mark A., assignor to Free & Easy Belt Co., Marblehead, Mass. Trousers-supporter. No. 1,362,179; Dec. 14; v. 281; p. 286.
Piper, Roscoe B. (See Burke, Peter D., assignor.)
Piper, Walter F. (See Beardsley, E. O., and Piper.)
Pipkin, Frank R., Greenfield, Ark. Railway-spike. No. 1,338,154; Apr. 27; v. 273; p. 668.
Pipkin, Maurice E., assignor to Gould Storage Battery Company, Nacogdoches, Tex. Battery. No. 1,363,671; Dec. 28; v. 281; p. 667.
Pipp, Charles E., Otsego, Mich. Back for chairs, stools, or the like. No. 1,361,178; Dec. 7; v. 281; p. 89.
Pippert, Irvin E., Del Norte, Colo. Headlight control. No. 1,356,470; Oct. 19; v. 279; p. 490.
Pirwitz, Friedrich A. G. (See Riddell, W. A., and Pirwitz.)
Pisani, William H., assignor to M. J. Brandenstein & Co., San Francisco, Calif. Packing coffee. No. 1,347,791; July 27; v. 276; p. 665.
Pisciotta, Sam, Kansas City, Mo. Interlocking-block wall construction. No. 1,350,835; Aug. 24; v. 277; p. 698.
Piscitello, Dominick N., and R. C., Jersey City, N. J. Yarn-winding machine. No. 1,360,790; Nov. 30; v. 280; p. 922.
Piscitello, Roy C. (See Piscitello, Dominick N. and R. C.)
Pistolite Manufacturing Company, The. (See Fuller, Gains C., assignor.)
Pistorio, Domingo A., Washington, D. C. Fuse. No. 1,333,777; Mar. 16; v. 272; p. 415.
Pitaro, Frank. (See Cundari, Dominick, assignor.)
Pitcher, Hugh B., Boonton, N. J., assignor to Curtainless Shower Company, New York, N. Y. Shower-bath attachment. No. 1,331,370; Feb. 17; v. 271; p. 478.
Pitkin, Amy M., Denver, Colo. Curtain-holder. No. 1,331,079; Feb. 17; v. 271; p. 426.
Pitkin, George P., Bergenfield, N. J. Luminous thermometer. No. 1,338,524; Apr. 27; v. 273; p. 738.
Pitkin, George P., Bergenfield, N. J. Temperature-indicator for engine-water circulation. No. 1,343,088; June 8; v. 275; p. 343.
Pitkin, Walter B., assignor to Planographic Equipment Company, Incorporated, New York, N. Y. Moistening device for printing-presses. No. 1,335,025; Mar. 30; v. 272; p. 757.
Pitkin, Walter B., assignor to Planographic Equipment Company, Incorporated, New York, N. Y. Moistening device for printing-presses. No. 1,335,026; Mar. 30; v. 272; p. 758.
Pitman, Frederick, East Kew, Victoria, Australia. Rubber stamp. No. 1,346,912; July 20; v. 276; p. 434.
Pitman, Henry L., East Orange, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,332,233; Mar. 2; v. 272; p. 11.
Pitman, Henry L., East Orange, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,341,995; June 1; v. 275; p. 74.
Pitman, Henry L., East Orange, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,345,102; June 29; v. 275; p. 928.
Pitman, Henry L., East Orange, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,345,877; July 6; v. 276; p. 107.
Pitman, Henry L., East Orange, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,350,387; Aug. 24; v. 277; p. 610.
Pitman, Henry L., East Orange, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined Typewriting and computing machine. No. 1,356,886; Oct. 26; v. 279; p. 618.
Pitman, Henry L., East Orange, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,359,270; Nov. 16; v. 280; p. 508.
Pitman, Henry L., East Orange, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,360,145; Nov. 23; v. 280; p. 727.
Pitman, Henry L., East Orange, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,362,180; Dec. 14; v. 281; p. 286.
Pitman, Henry L., Brooklyn, assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,345,460; July 6; v. 276; p. 26.
Pitman, Henry L., Brooklyn, assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,349,386; Aug. 10; v. 277; p. 297.
Pitman, Henry L., Elizabeth, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,354,778; Oct. 5; v. 279; p. 66.
Pitman, Henry L., Elizabeth, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,357,184; Oct. 26; v. 279; p. 676.
Pitman, Robert A., assignor to Earle Gear & Machine Company, Philadelphia, Pa. Centrifugal pump-balancing means. No. 1,360,576; Nov. 30; v. 280; p. 880.
Pitner Gas Appliance Company. (See Pitner, Marion W., assignor.)
Pitner, Marion W., Chicago, Ill. Packing element. No. 1,358,243; Nov. 9; v. 280; p. 261.
Pitner, Marion W., assignor to Pitner Gas Appliance Company, Chicago, Ill. Process and apparatus for burning gas for heating purposes. No. 1,338,327; Apr. 27; v. 273; p. 701.
Pitney, Arthur H., Wilmette, Ill., assignor to Pitney-Bowes Postage Meter Company, Stamford, Conn. Mail-marking machine and postage-meter. (Reissue.) No. 14,016; July 13; v. 276; p. 355.
Pitney-Bowes Postage Meter Company. (See Pitney, Arthur H., assignor.) (Reissue.)
Pitt, John W., Bath, and G. Sague, Highland, N. Y. Printer's plate-hook. No. 1,348,663; Aug. 3; v. 277; p. 104.
Pitt, William P., Kansas City, Mo. Record-sheet. No. 1,330,216; Feb. 10; v. 271; p. 194.
Pittman, Ernest W., Flushing, N. Y., assignor to New England Westinghouse Company. Method of and machine for hardening and straightening rods. No. 1,346,419; July 13; v. 276; p. 277.
Pittman, Henry C. (See Pittman, Reinhart W., assignor.)
Pittman, Jesse A., Nashville, Tenn. Toy animal-cage. No. 1,330,654; Feb. 10; v. 271; p. 276.
Pittman, Ray, Bode, Iowa. Mail-bag deliverer and receiver. No. 1,361,179; Dec. 7; v. 281; p. 39.
Pittman, Reinhart W., New York, N. Y., assignor to Henry C. Pittman, Hackensack, N. J. Saw and method and means of hardening same. No. 1,351,440; Aug. 31; v. 277; p. 879.
Pittman, Reinhart W., assignor to The Alston Saw & Steel Company, New York, N. Y. Apparatus for drawing the temper from portions of hardened articles. No. 1,362,736; Dec. 21; v. 281; p. 446.
Pittock, John W., Philadelphia, Pa. Centrifugal machine for separating oil from chips. No. 1,340,682; May 18; v. 274; p. 515.
Pittoni, Louis E. (See Sisbower, G. F., and Pittoni.)
Pittoni, Louis E., New York, assignor to Manhattan-Rome Company, branch Rome Metallic Bedstead Co., Long Island City, N. Y. Hammock suspension. No. 1,355,356; Oct. 12; v. 279; p. 233.
Pitts, George B., trustee. (See Richardson, Charles F., assignor.)
Pitts, Gilbert E. (See McDonald, Frank R., assignor.)
Pittsburgh Aeroplane & Motor Company. (See Sanford, Charles L., assignor.)
Pittsburgh Can Company. (See Jones, Whitfield E., Jr., assignor.)
Pittsburgh Filter Manufacturing Company. (See Humphreys, Charles A., assignor.)
Pittsburgh Gage & Supply Company. (See Freed, G. F., and Spencer, assignors.)
Pittsburgh Gage & Supply Company. (See Freed, George F., assignor.)

Digitized by Google

Pittsburgh Garbage Incineration Co. (See Roberts, Albert J., assignor.)
Pittsburgh Lamp, Brass & Glass Company. (See Yokel, Frank, assignor.)
Pittsburgh Meter Company. (See Argall, Thomas, assignor.)
Pittsburgh Meter Company. (See Chrisman, Horace, assignor.)
Pittsburgh Plate Glass Company. (See Brown, Clarence M., assignor.)
Pittsburgh Plate Glass Company. (See Hazel, Charles R., assignor.)
Pittsburgh Plate Glass Company. (See Heichert, Herman S., assignor.)
Pittsburgh Plate Glass Company. (See Hitchcock, Halbert K., assignor.)
Pittsburgh Plate Glass Company. (See Hitmer, H. F., and Oakes, assignor.)
Pittsburgh Plate Glass Company. (See Hitner, Harry F., assignor.)
Pittsburgh Plate Glass Company. (See Hoffman, Homer M., assignor.)
Pittsburgh Plate Glass Company. (See Rotheram, Thomas, assignor.)
Pittsburgh Plate Glass Company. (See Shaw, William G., assignor.)
Pittsburgh Plate Glass Company. (See Shrigluff, Harry G., assignor.)
Pittsburgh Steel Products Company. (See Wikstrom, Malcolm U., assignor.)
Pivarnik, Joseph, McAdoo, Pa. Trolley. No. 1,363,995; Dec. 28; v. 281; p. 731.
Pivot Button Company. (See Helwig, Herman H., assignor,)
Place, Claude W., La Grange, Ill., assignor to General Electric Company. Electrical system of distribution. No. 1,362,637; Dec. 21; v. 281; p. 427.
Place, James F., Glen Ridge, N. J. Apparatus for liquefying air. No. 1,326,961; Jan. 6; v. 270; p. 15.
Place, Josiah W., assignor to United States Gauge Co., New York, N. Y. Pressure-gage. No. 1,345,630; July 6; v. 276; p. 59.
Place, Roland P. (See Hoy, John E., assignor.)
Place, Roland P., assignor to The H-P Company, Detroit, Mich. Grinding-wheel dresser. No. 1,347,519; July 27; v. 276; p. 609.
Placette, Joseph G., assignor to T. Placette, Port Arthur, Tex. Burner. No. 1,342,226; June 1; v. 275; p. 121.
Placette, Theodore. (See Placette, Joseph G., assignor.)
Placette, Theodore. (See Trahan, Clair A., assignor.)
Plahn, August P., Copenhagen, Denmark. Apparatus for displaying colored living pictures. No. 1,355,498; Oct. 12; v. 279; p. 260.
Plaisant, Gustave, Ealing, London, England. Electromagnetic device. No. 1,334,258; Mar. 16; v. 272; p. 505.
Plaisted, Harold M., assignor to Williams Patent Crusher and Pulverizer Co., St. Louis, Mo. Rotary hammer. (Reissue.) No. 14,865; May 25; v. 274; p. 768.
Plaisted, Harold M., assignor of forty-nine one-hundredths to Williams Patent Crusher & Pulverizer Co., St. Louis, Mo. Rotary hammer. (Reissue.) No. 14,926; July 27; v. 276; p. 735.
Plaisted, Harold M., assignor to Williams Patent Crusher and Pulverizer Company, St. Louis, Mo. Dust-collector. No. 1,356,086; Oct. 19; v. 279; p. 415.
Plaisted, Harold M., assignor to Williams Patent Crusher & Pulverizer Co., St. Louis, Mo. Cage for grinders. No. 1,359,426; Nov. 16; v. 280; p. 540.
Planche, Benjamin R., Villefranche-sur-Saône, France. Rotary machine. No. 1,340,625; May 18; v. 274; p. 504.
Planetz, Henry. (See Viebrock, Carl H., and H. W., assignors.)
Planographic Equipment Company. (See Pitkin, Walter B., assignor.)
Plant & Company. (See Phillipson, Emil, assignor.)
Plant, David N. (See Acheson, S., and Plant.)
Plant Engineering & Equipment Co. (See Haight, Theodore, assignor.)
Plant, Henry J., assignor to Defiance Check Writer Corporation, Rochester, N. Y. Check-protector. No. 1,352,689; Sept. 14; v. 278; p. 225.
Plant, Henry J., assignor to Defiance Check Writer Corporation, Rochester, N. Y. Printing-machine. No. 1,352,690; Sept. 14; v. 278; p. 225.
Plant, Henry J., assignor to Defiance Check Writer Corporation, Rochester, N. Y. Check-protector. No. 1,352,691; Sept. 14; v. 278; p. 225.
Plant, Henry J., assignor to Defiance Check Writer Corporation, Rochester, N. Y. Printing apparatus. No. 1,358,461; Nov. 9; v. 280; p. 307.
Plant, John W., San Mateo, Calif. Electrically welding steel. No. 1,354,266; Sept. 28; v. 278; p. 643.
Plante, Albert E., assignor of one-half to B. Drolet, Montreal, Quebec, Canada. Electric water-heater. No. 1,327,774; Jan. 13; v. 270; p. 228.
Plante, Joseph A., San Pedro, Calif. Overshot. No. 1,345,103; June 29; v. 275; p. 929.
Plante, Lévi N., Worcester, Mass. Pack-carrier. No. 1,362,136; Dec. 14; v. 281; p. 278.
Plasclascovitie, Sidney, Denver, Colo. Shelf for ladders. No. 1,352,914; Sept. 14; v. 278; p. 270.
Plastoid Products Inc. (See Glaze, Herbert L., assignor.)
Plastoid Products, Inc. (See Routt, O. L., McConnell, and Glaze, assignors.)
Plastoid Products. (See Routt, Orville L., assignor.)
Platt, Benjamin N., Chicago, Ill. Block. No. 1,327,775; Jan. 13; v. 270; p. 229.
Platt, Clarence D., Bridgeport, Conn. Electric switch. No. 1,330,137; Feb. 10; v. 271; p. 180.
Platt, Clarence D., Bridgeport, Conn. Electric switch. No. 1,333,185; Mar. 9; v. 272; p. 243.
Platt, Clarence D., Bridgeport, Conn. Electric switch. No. 1,333,874; Mar. 16; v. 272; p. 433.
Platt, Clarence D., Bridgeport, Conn. Electric switch. No. 1,337,469; Apr. 20; v. 273; p. 469.
Platt, Clarence D., Bridgeport, Conn. Electric-switch lock. No. 1,344,958; June 29; v. 275; p. 901.
Platt, Clarence D., Bridgeport, Conn. Rotary snap-switch. No. 1,351,124; Aug. 31; v. 277; p. 815.
Platt, Henry. (See Platt, John, W., and H.)
Platt, John, Harrow, England, and W. and H. Platt, Roubaix, France. Drum or cylinder of carding-engines and the like. No. 1,337,470; Apr. 20; v. 273; p. 469.
Platt, John H., Los Angeles, Calif. Crate-press. No. 1,345,878; July 6; v. 276; p. 108.
Platt, John J., Devon, Milford, Conn. Spark-plug. No. 1,353,785; Sept. 21; v. 278; p. 501.
Platt, Leo, New York, N. Y. Camisole. No. 1,344,004; June 22; v. 275; p. 651.
Platt, Wilber O., and J. Reid, assignors to Joseph Reid Gas Engine Company, Oil City, Pa. Internal-combustion engine. No. 1,341,478; May 25; v. 274; p. 739.
Platt, William. (See Platt, John, W., and H.)
Platten, William J., Green Bay, Wis. Concrete rail and track. No. 1,339,046; May 4; v. 274; p. 74.
Plattier, Clovis. (See Zimmermann, D., and Plattier.)
Platts, Edwin C. (See Pickard, E. R., and Platts.)
Plauché, Léda H., New Orleans, La. Educational toy. No. 1,330,089; Feb. 10; v. 271; p. 171.
Plavsa, Dujo, assignor of one-half to S. Androvich, Globe, Ariz. Air-feed for carbureters. No. 1,329,545; Feb. 3; v. 271; p. 38.
Player, Osteen J., Rockingham, N. C. Warp-replenishing apparatus. No. 1,357,346; Nov. 2; v. 280; p. 28.
Play-O-Lite Company. (See Eberhart, Cleburne, Jr., assignor.)
Play-O-Lite Company. (See Fraser, Allan, assignor.)
Pledger, Dennis J., New Orleans, La. Humidifier. No. 1,332,407; Mar. 2; v. 272; p. 45.
Pledger, Dennis J., New Orleans, La. Controlling mechanism for auxiliary air and throttle valves. No. 1,332,408; Mar. 2; v. 272; p. 45.
Pleis, George W., Philadelphia, Pa. Separator for storage-battery plates. No. 1,362,737; Dec. 21; v. 281; p. 447.
Pleister, Henry W., Westfield, N. J., assignor to H. B. Newhall, Jr., executor. Cable-clamp. No. 1,328,543; Jan. 20; v. 270; p. 410.
Pleister, Henry W., Westfield, N. J., assignor to H. B. Newhall, Jr., executor. Drive-ring. No. 1,331,524; Feb. 24; v. 271; p. 528.
Plemmons, Earl, Ashburn, Ga. Air-motor. No. 1,336,815; Apr. 6; v. 273; p. 115.
Plettner, Otto L., and W. H. Lowe, assignors to The Continental Tractor Company, Continental, Ohio. Tractor. No. 1,336,581; Apr. 13; v. 273; p. 225.
Plice, Thomas V., assignor to The Topping Manufacturing Company, Ashland, Ohio. Door-latch and controlling device for combined hinge and slide doors. No. 1,341,583; May 25; v. 274; p. 759.
Plice, Thomas V., assignor to The Topping Manufacturing Co., Ashland, Ohio. Door-hanger. No. 1,341,584; May 25; v. 274; p. 759.
Plice, Thomas V., assignor to The Topping Manufacturing Co., Ashland, Ohio. Swivel-hanger for doors. No. 1,343,789; June 15; v. 275; p. 544.
Plice, Thomas V., assignor to The Topping Manufacturing Co., Ashland, Ohio. Door-latch and controlling device for combined hinge and slide doors. (Reissue.) No. 14,945; Aug. 31; v. 277; p. 936.
Plimpton, Bentley A., Victor, N. Y. Insulator-support. No. 1,328,687; Jan. 20; v. 270; p. 437.
Plimpton, Bentley A., Victor, N. Y. Support for electric conductors. No. 1,362,038; Dec. 14; v. 281; p. 258.
Plinske, George A. and W. J., and W. C. Ebert, Reedsville, Wis. Adjustable cattle-stall. No. 1,355,845; Oct. 19; v. 279; p. 367.
Plinske, William J. (See Plinske, G. A. and W. J., and Ebert.)
Plock, Albert F., Pittsburgh, Pa. Sintering plant. No. 1,330,090; Feb. 10; v. 271; p. 171.
Plucienski, John, Syracuse, N. Y. Freight loading and unloading crane. No. 1,341,996; June 1; v. 275; p. 75.
Plucienski, John, Syracuse, N. Y. Sanitary cuspidor. No. 1,343,406; June 15; v. 275; p. 468.
Plucker, Henry W., New York, N. Y. Combined ash-tray and cigarette-extinguisher. No. 1,331,872; Feb. 24; v. 271; p. 595.
Plughoff, Albert D., *et al.* (See Atkins, Walter, assignor.)
Plughoff, Valeria, Huntington, Oreg. Fruit-strainer. No. 1,362,135; Dec. 14; v. 281; p. 278.
Plumb, David S. (See Underhill, Benjamin D., assignor.)

Digitized by Google

Plumb, Frederic W., assignor to The Narrow Fabric Company, Wyomissing, Pa. Rubber-core-tensioning mechanism for braiding-machines. No. 1,342,646; June 8; v. 275; p. 254.

Plumb, Roy A., Detroit, Mich., assignor to Truscon Steel Company, Youngstown, Ohio. Composite-tapered shingle machine. No. 1,343,581; June 15; v. 275; p. 502.

Plumley, Stuart, Westfield, N. J., assignor to Davis-Bournonville Company, New York, N. Y. Universal metal-cutting apparatus. No. 1,352,760; Sept. 14; v. 278; p. 239.

Plummer, Allen H., and C. P. Mullen, Conshohocken, Pa. Oil-deflector for engine-cylinders. No. 1,328,544; Jan. 20; v. 270; p. 410.

Plummer, Arthur B., Chicago, Ill. Orthopedic pad. No. 1,336,979; Apr. 13; v. 273; p. 302.

Plummer, Emma A., Brooklyn, N. Y. Head-covering. No. 1,339,286; May 4; v. 274; p. 117.

Plummer, Henry L., Petersburg, Va. Apparatus for manufacturing dress-suitcases. No. 1,359,427; Nov. 16; v. 280; p. 540.

Plummer, Henry L., assignor to Independent Trunk and Bag Company, Petersburg, Va. Machine for cutting and preparing dress-suit-case body-blanks. No. 1,340,558; May 18; v. 274; p. 491.

Plummer, Horace, Center township, Hendricks county, Ind. Universal tool-sharpener. No. 1,359,271; Nov. 16; v. 280; p. 508.

Plummer, Orla R., Napoleon, Ohio. Paint-sprayer. No. 1,331,371; Feb. 17; v. 271; p. 478.

Plummer, Robert S., assignor to American Briquet Company, Philadelphia, Pa. Briquet-drier. No. 1,352,377; Sept. 7; v. 278; p. 127.

Plym, Francis J., assignor to Kawneer Manufacturing Company, Niles, Mich. Aeroplane-rudder construction. No. 1,335,527; Mar. 30; v. 272; p. 850.

Plym, Francis J., assignor to Kawneer Manufacturing Company, Niles, Mich. Aeroplane-wing construction. No. 1,337,951; Apr. 20; v. 273; p. 561.

Plym, Francis J., assignor to Kawneer Manufacturing Company, Niles, Mich. Airplane construction. No. 1,348,374; Aug. 3; v. 277; p. 48.

Plym, Francis J., and I. G. Barclay, assignors to Kawneer Manufacturing Company, Niles, Mich. Store-front construction. No. 1,334,398; Mar. 23; v. 272; p. 578.

Plymouth Gypsum Company. (See Armstrong, L. E., and Brockenbrough, assignors.)

Plympton, Frederick K., Wellesley, Mass. Closure for milk-jars and the like. No. 1,362,181; Dec. 14; v. 281; p. 286.

Pneumatic Concrete Machinery Corporation. (See Weaver, C. R., and Fleck, assignors.)

Pneumatic Cushion Company. (See Gruss, Lucien R., assignor.)

Pneumatic Process Flotation Company. (See Callow, John M., assignor.)

Pneumatic Process Flotation Company. (See Gahl, R., and Haskell, assignors.)

Pneumatic Process Flotation Company. (See Gahl, Rudolf, assignor.)

Pneumatic Pump Company. (See Goss, George W., assignor.)

Pneumatic Scale Corporation. (See Howard, Stanley R., assignor.)

Pneumatic Scale Corporation, Limited. (See Robinson, George A., assignor.)

Pneumelectric Machine Company, The. (See Palmros, Alexander, assignor.)

Pnumercator Company. (See Cornett, G., and Stancliff, assignors.)

Pockert, John G., Dunn Center, N. D. Trace-buckle. No. 1,340,792; May 18; v. 274; p. 535.

Pocock, Sylvester J., Hamilton, Ontario, Canada. Gas-meter mechanism. No. 1,344,714; June 29; v. 275; p. 855.

Podien, Jakob, Chicago, Ill. Car-replacer. No. 1,351,965; Sept. 7; v. 278; p. 50.

Podjevin, Joseph, Schenectady, N. Y. Moving-picture machine. No. 1,350,388; Aug. 24; v. 277; p. 610.

Podleśak, Henry J., Chicago, Ill., assignor to Splitdorf Electrical Company, Newark, N. J. Inductor-alternator. No. 1,329,926; Feb. 3; v. 271; p. 109.

Podszus, Emil, Treptow, near Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Making solid bodies from nitrids. No. 1,337,264; Apr. 20; v. 273; p. 430.

Poe Range Company, The. (See Poe, Robert L., assignor.)

Poe, Robert L., assignor to The Poe Range Company, Chicago, Ill. Range. No. 1,344,061; June 22; v. 275; p. 662.

Poe, Robert L., assignor to Shellophone Talking Machine Co., Chicago, Ill. Sound-reproducing instrument. No. 1,363,482; Dec. 28; v. 281; p. 631.

Poehland, Bernhard, Woodhaven, N. Y. Fastener for tailpieces of musical instruments. No. 1,337,793; Apr. 20; v. 273; p. 530.

Poehland, Bernhard, Brooklyn, N. Y. Tuning-peg for stringed instruments. No. 1,339,418; May 11; v. 274; p. 218.

Poehner, Conrad, Cincinnati, Ohio. Ventilating-window. No. 1,344,561; June 22; v. 275; p. 760.

Poetz, John C., Wenatchee, Wash. Climbing device. No. 1,328,251; Jan. 13; v. 270; p. 319.

Pogany, Alfred, assignor of one-half to A. Gabriel, Philadelphia, Pa. Stopping device. No. 1,339,474; May 11; v. 274; p. 229.

Pogue, George D. (See Hildebrand, Reinhard, assignor.)

Pogue, Homer C., Chicago, Ill. Spark-gap attachment for spark-plugs. No. 1,329,013; Jan. 27; v. 270; p. 527.

Pogue, Robert H., Winnipeg, Manitoba, Canada. Safety-hitch. No. 1,344,818; June 29; v. 275; p. 875.

Pohlig, Edgar W., New York, N. Y. Fender for vehicles. No. 1,340,835; May 18; v. 274; p. 543.

Poindexter, Alfred M., Denver, Colo. Sectional non-rotative insulating-knob for supporting electric wires. No. 1,326,962; Jan. 6; v. 270; p. 16.

Poindexter, Franklin E., Denton, Tex. Dirigible headlight for vehicles. No. 1,360,791; Nov. 30; v. 280; p. 922.

Poindexter, George B., Bremerton, Wash. Combination-lock. No. 1,339,668; May 11; v. 274; p. 266.

Pointon, John E., Peterborough, England. Bread-making machinery. No. 1,335,915; Apr. 6; v. 273; p. 40.

Pointon, John E., Peterbrough, England. Dough-molding machine. No. 1,345,631; July 6; v. 276; p. 59.

Pointon, John E., Peterborough, England. Dough-dividing machine. No. 1,363,614; Dec. 28; v. 281; p. 657.

Poirier, Alfred O., New Haven, Conn. Timing device for explosive-engines. No. 1,332,568; Mar. 2; v. 272; p. 76.

Poirier, Arthur F., Wilton, Me. Adjustable weight. No. 1,357,471; Nov. 2; v. 280; p. 51.

Poirier, Marcel H., Woonsocket, R. I. Coupling. No. 1,340,739; May 18; v. 274; p. 525.

Pokorny, Frank, Jr., assignor of one-third to F. W. Keegan and one-third to D. M. Livingston, New York, N. Y. Governor. No. 1,348,956; Aug. 10; v. 277; p. 212.

Pokorny, Frank, Jr., assignor of one-third to F. W. Keegan and one-third to D. M. Livingston, New York, N. Y. Fluid-control means for motors. No. 1,361,180; Dec. 7; v. 281; p. 40.

Pokorny, Joseph, Shamrock, Tex. Rat and mouse trap. No. 1,333,875; Mar. 16; v. 272; p. 434.

Pokorny, Joseph, assignor to May Department Stores Company, St. Louis, Mo. Window-awning. No. 1,332,752; Mar. 2; v. 272; p. 110.

Polanco, Carlos L. (See Robert, August, assignor.)

Poland, Edward F., Boston, Mass. Washing-machine. No. 1,344,089; June 22; v. 275; p. 667.

Poland, William A. (See Harkins, H. B., Holstein, and Poland.)

Polaski, Henry P., assignor to The Four-Drive Tractor Company, Inc., Big Rapids, Mich. Tractor driving-gearing. No. 1,337,369; Apr. 20; v. 273; p. 450.

Polcek, Henry, New York, N. Y. Safety window-lock. No. 1,352,624; Sept. 14; v. 278; p. 211.

Polcho, Frank, Melvin, Mich. Pneumatic paint-brush. No. 1,336,316; Apr. 6; v. 273; p. 115.

Polhemus, Louis E., Miami, Ariz. Carbid-lamp burner. No. 1,338,038; Apr. 27; v. 273; p. 647.

Polinkowsky, Lipa, Hyde Park, London, England, assignor to Western Electric Company, Incorporated, New York, N. Y. Machine-switching telephone-exchange system. No. 1,339,575; May 11; v. 274; p. 248.

Polinkowsky, Lipa, Hyde Park, London, England, assignor to Western Electric Company, Incorporated, New York, N. Y. Call-distributing system. No. 1,340,979; May 25; v. 274; p. 642.

Polinkowsky, Lipa, London, England, assignor to Western Electric Company, Incorporated, New York, N. Y. Machine-switching telephone-exchange system. No. 1,345,879; July 6; v. 276; p. 108.

Politowski, Peter P., Chicago, Ill. Dynamo-electric machine. No. 1,361,546; Dec. 7; v. 281; p. 115.

Polk, Willis, assignor of one-half to S. Levy, San Francisco, Calif. Architectural structure. No. 1,334,634; Mar. 23; v. 272; p. 622.

Polkingharn, Oril, Marne, Iowa. Coop tag-holder. No. 1,335,077; Mar. 30; v. 272; p. 767.

Pollak, Robert R., San Francisco, Calif. Drilling and oil-well apparatus. No. 1,347,587; July 27; v. 276; p. 624.

Pollak Steel Company, The. (See Paque, Edward J., assignor.)

Pollard, Edson T., Niagara Falls, N. Y., and W. N. Morley, Toronto, Canada. Flour-mill. No. 1,348,049; July 27; v. 276; p. 716.

Pollard, Ellery, Brooklyn, N. Y. Binding appliance. No. 1,344,959; June 29; v. 275; p. 901.

Pollard, George, assignor to The Menco-Elma Syndicate Limited, London, England. Electromagnetic brake for motor road-vehicles. No. 1,328,966; Jan. 27; v. 270; p. 519.

Pollard, George, Piccadilly, Westminster, assignor to The Menco-Elma Syndicate Limited, Walbrook, London, England. Speed-changing, reversing, and braking gearing. No. 1,333,729; Mar. 16; v. 272; p. 407.

Pollard, George, assignor to The Menco-Elma Syndicate Limited, London, England. Electromagnetic friction-brake more especially intended for the driving and change-speed gear of motor road-vehicles. No. 1,334,791; Mar. 23; v. 272; p. 653.

Digitized by Google

Pollard, John D., Chicago, Ill. Stethoscope. No. 1,329,430; Feb. 3; v. 271; p. 16.
Pollard, Thomas J., Cranston, and L. S. Darling, Providence, R. I. Chain-clasp. No. 1,360,678; Nov. 30; v. 280; p. 899.
Pollen, Arthur H., London, and H. F. Landstad, York, England. Apparatus for determining and correcting the course of aircraft and for dropping bombs therefrom. No. 1,363,011; Dec. 21; v. 281; p. 500.
Pollmiller, August V., Marceline, Mo. Semaphore-signal. No. 1,328,194; Jan. 13; v. 270; p. 807.
Pollock, George, San Francisco, Calif. Making shoes. (Reissue.) No. 14,882; June 15; v. 275; p. 564.
Pollock, Oliver M., Springfield, Ohio. Tiltable headlight. No. 1,363,483; Dec. 28; v. 281; p. 631.
Pollock, Robert B., Los Angeles, Calif. Direction-indicator. No. 1,340,343; May 18; v. 274; p. 451.
Polo, Lino S., Tucson, Ariz. Ore-concentrator. No. 1,332,751; Mar. 2; v. 272; p. 110.
Polshaw, Joseph, Steubenville, Ohio. Stove-lid lifter. No. 1,335,191; Mar. 30; v. 272; p. 788.
Polson, William F., Buffalo, N. Y. Folding seat for automobiles. No. 1,333,338; Mar. 9; v. 272; p. 272.
Polygon Products Company. (See Abbott, Charles M., assignor.)
Pomerantz, Isadore, Kansas City, Mo. Key-interlocking hollow-tile construction of silos. No. 1,332,409; Mar. 2; v. 272; p. 45.
Pomerantz, Isadore, Kansas City, Mo. Reinforced door-frame and ladder. No. 1,334,921; Mar. 23; v. 272; p. 678.
Pomeroy Company. See Hullinger, Lynus E., assignor.)
Pomeroy, Harry D., H. T. Avery, and R. M. Wheeler, Syracuse, N. Y. Disk-record cabinet. No. 1,360,679; Nov. 30; v. 280; p. 900.
Pomeroy, Harry D., H. T. Avery, and R. M. Wheeler, Syracuse, N. Y. Disk-record cabinet. No. 1,360,680; Nov. 30; v. 280; p. 900.
Pomeroy, Roy J., New York, N. Y. Theatrical device. No. 1,332,918; Mar. 9; v. 272; p. 193.
Pomijé, Frank, New Prague, Minn. Brush-cutter and ground-evener. No. 1,346,382; July 13; v. 276; p. 270
Pond, Edmund M., Rutland Vt. Absorbent-bandage package. No. 1,251,441; Aug. 31; v. 277; p. 879.
Pond, Frank J., Tulsa, Okla. Shaft-clamp. No. 1,328,688; Jan. 20; v. 270; p. 437.
Pond, Martin A., Bristol, assignor to Standard Carrier Company, Southington, Conn. Cash-carrier box. No. 1,346,676; July 13; v. 276; p. 328.
Pond, Oscar L. (See Zehringer, Howard A., assignor.)
Pontiere, Stanley M., Philadelphia, Pa. Automobile-signal. No. 1,348,182; Aug. 3; v. 277; p. 10.
Ponting, Harry W., and A. J. Watling, Junction City, Kans. Combination-lock. No. 1,347,708; July 27; v. 276; p. 647.
Pontius, Merl R., and A. L. West, Eldorado, Kans. Sand-reel support. No. 1,348,734; Aug. 3; v. 277; p. 116.
Pool, Elmer C., New Castle, Pa., assignor to Toledo Scale Company, Toledo, Ohio. Pendulum-scale. No. 1,326,968; Jan. 6; v. 270; p. 16.
Pool, Elmer C., New Castle, Pa., assignor to Toledo Scale Company, Toledo, Ohio. Automatic electric scale. No. 1,356,009; Oct. 19; v. 279; p. 399.
Pool, Elmer C., Newcastle, Pa., assignor to Toledo Scale Company, Jersey City, N. J. Electric weighing-scale. No. 1,359,272; Nov. 16; v. 280; p. 508.
Pool, Frank M., *et al.* (See Davidson, Charles S., assignor.)
Pool, John G., Dayton, Ohio. Means for suspending fastening elements from concrete. No. 1,341,585; May 25; v. 274; p. 759.
Poole, Arthur F. (See Wahl, J. C., Hasselquist, and Poole.)
Poole, Arthur F., Chicago, Ill. Electric-clock system. No. 1,328,247; Jan. 13; v. 270; p. 318.
Poole, Arthur F., Chicago, Ill. Speedometer. No. 1,351,585; Aug. 31; v. 277; p. 908.
Poole, Arthur F., Chicago, Ill., assignor to Westinghouse Electric & Manufacturing Company. Clock system. No. 1,338,328; Apr. 27; v. 273; p. 701.
Poole, Arthur F., Kenilworth, Ill., assignor to The Wahl Company, Wilmington, Del. Gear-shift for cross-actuators. No. 1,329,014; Jan. 27; v. 270; p. 528.
Poole, Arthur F., Kenilworth, Ill., assignor to The Wahl Company, Wilmington, Del. Calculating-machine. No. 1,334,316; Mar. 23; v. 272; p. 563.
Poole, Edward C., Southbourne-on-Sea, England. Drawing appliance. No. 1,358,572; Nov. 9; v. 280; p. 328.
Poole, Ephriam B., Cordova, Ala. Elevator. No. 1,361,490; Dec. 7; v. 281; p. 103.
Poole, Fred, Jewell, Kans. Water-heater. No. 1,326,964; Jan. 6; v. 270; p. 16.
Poole Oil-Cracking & Refining Company. (See Poole, Willard B., assignor.)
Poole, Robert G., Baltimore, Md. Station-indicator. No. 1,358,873; Nov. 16; v. 280; p. 433.
Poole, Willard B., Okmulgee, Okla., assignor to Poole Oil-Cracking & Refining Company, Yuma, Ariz. Oil-cracking apparatus. No. 1,340,793; May 18; v. 274; p. 535.
Pooler, Earl. (See Law, H. E., and Pooler.)
Poor, Edwin L., assignor of one-half to L. Johns, Oak Park, Ill. Means for holding film-covering strips to camera-spools. No. 1,330,494; Feb. 10; v. 271; p. 246.
Poor, Fred A., assignor to The P & M Company, Chicago, Ill. Rail-anchor. No. 1,357,419; Nov. 2; v. 280; p. 41.
Poore, John C., Boston, Mass. Dirigible-eye structure for dolls. No. 1,328,100; Jan. 13; v. 270; p. 290.
Poore, John C., Boston, Mass. Doll. No. 1,334,470; Mar. 23; v. 272; p. 591.
Poorman, Charles W., Oak Park, Ill. Antiskid device. No. 1,329,628; Feb. 3; v. 271; p. 53.
Popcke, A. G., Swissvale, Pa., and W. R. Johnston, Parsons, N. Mex., assignors of one-fourth to F. C. Reed and one-fourth to I. D Kaiser, Wilkinsburg, Pa. Apparatus for treating oil-wells. No. 1,354,757; Oct. 5; v. 279; p. 62.
Pope, Charles E., Springfield, Mass., assignor to Great Northern Paper Company, Millinocket, Me. Paper-making. No. 1,338,094; Apr. 27; v. 273; p. 657.
Pope, Clarence J., Chicago, assignor of one-half to N. Hanson, Batavia, Ill. Magazine-hammer. No. 1,344,715; June 29; v. 275; p. 855.
Pope, Edwin, Quebec, Quebec, Canada. Typewriting-machine. No. 1,347,290; July 20; v. 276; p. 508.
Pope, Frederick J., New Rochelle, assignor to W. B. Thompson, Yonkers, N. Y. Illumination of pictures. No. 1,348,957; Aug. 10; v. 277; p. 212.
Pope, Joseph H., Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heeling-machine. No. 1,330,900; Feb. 17; v. 271; p. 391.
Pope, Joseph H., Hamilton, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on heels. No. 1,346,247; July 13; v. 276; p. 243.
Pope, Joseph H., Hamilton, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for use in heel manufacture. No. 1,346,248; July 13; v. 276; p. 243.
Pope, Turner T., Houston, assignor of one-half to M. E. Foster, Harris county, Tex. Vaporizing attachment. No. 1,341,760; June 1; v. 275; p. 29.
Pope, William, Rockvale, Tenn. Gate. No. 1,335,350; Mar. 30; v. 272; p. 818.
Pope, William W., Portland, Oreg. Cable-clamp. No. 1,341,483; May 25; v. 274; p. 731.
Popken, Harry F. (See Williamson, J. E., Popken, and Vale.)
Popkess, Michael A., and J. E. Black, Kansas City, Mo. Composite article and making same. No. 1,334,317; Mar. 23; v. 272; p. 563.
Popkess, Michael A., Kansas City, Mo., assignor to Bituminized Road Company. Machine for treating earthy material. No. 1,337,953; Apr. 20; v. 273; p. 561.
Pophal, Emil A. (See Phinney, G. H., and Pophal.)
Popov, Dmitry, Berkeley, Calif. Wheeled scraper. No. 1,363,435; Dec. 28; v. 281; p. 622.
Popovich, Michael J., East Pittsburgh, Pa. Mortise-lock. No. 1,335,027; Mar. 30; v. 272; p. 758.
Popp, Harry E., East Cleveland, Ohio. Valve. No. 1,355,426; Oct. 12; v. 279; p. 245.
Popp, Jonas L. T., Niagara Falls, N. Y. Mixing valve or faucet. No. 1,337,952; Apr. 20; v. 273; p. 561.
Poppenga, Reiner, Jr., Lennox, S. D. Cattle-trap. No. 1,363,054; Dec. 21; v. 281; p. 508.
Poppenhusen, Herman A., Hammond, assignor to Green Engineering Company, East Chicago, Ind. Furnace. No. 1,335,528; Mar. 30; v. 272; p. 850.
Popper, Isaac C., and C. H. Bayer, New York, N. Y. Heater. No. 1,342,570; June 8; v. 275; p. 240.
Popper, Isaac C., assignor to Basic Products Corporation, New York, N. Y. Can or container. No. 1,331,372; Feb. 17; v. 271; p. 479.
Popper, Isaac C., assignor to The Theroz Company, New York, N. Y. Grill-stove. No. 1,351,682; Aug. 31; v. 277; p. 926.
Popular Reflex Camera Corporation. (See Harris, Varian M., assignor.)
Porath, Carl A., Kokomo, Ind. Galvanizing-furnace. No. 1,343,843; June 15; v. 275; p. 555.
Porbeck, Otto, St. Louis, Mo. Japanning-oven. No. 1,354,210; Sept. 28; v. 278; p. 631.
Porch, James W., Hurricane Mills, Tenn. Pulling implement. No. 1,326,965; Jan. 6; v. 270; p. 16.
Poremba, Thomas, Rome, N. Y. Combined cane and fish-rod. No. 1,336,088; Apr. 6; v. 273; p. 72.
Porfyrij, Kiselycia. (See Zubryd, Anton, assignor.)
Poris, John, Oshkosh, Wis. Stove-casing. No. 1,360,314; Nov. 30; v. 280; p. 829.
Porri, Antoine, Bone, Algeria. Mold for manufacture of concrete pipes. No. 1,336,857; Apr. 13; v. 273; p. 279.
Port, Charles A., Windsor, Mo. Needle. No. 1,338,525; Apr. 27; v. 273; p. 738.
Port Huron Engine & Thresher Company. (See Baird, Albert H., assignor.)
Port Huron Engine & Thresher Company. (See Chrestenson, Louis F., assignor.)
Port, Samuel R., Martinsville, Ind. Collapsible barrel. No. 1,328,587; Jan. 20; v. 270; p. 419.
Portable Machinery Company. (See Wentz, Jere L., assignor.) (Reissue.)

Digitized by Google

Alphabetical list of patentees—Continued.

Porteous, James, Fresno, Calif. Rotary harrow. No. 1,339,605; May 11; v. 274; p. 254.
Porteous, James, Fresno, Calif. Non-leaking bearing for impeller-shafts of centrifugal pumps. No. 1,362,039; Dec. 14; v. 281; p. 259.
Porteous, Leonard, Sharon, Pa. Bumper for boats. No. 1,361,902; Dec. 14; v. 281; p. 231.
Porter, Albert E., *et al.* (See Powers, Hubert D., assignor.)
Porter, Albert M., Linn, Kans. Attachment for tractors. No. 1,361,742; Dec. 7; v. 281; p. 153.
Porter, Alfred P., Amidon, N. D. Portable safety door-lock. No. 1,334,399; Mar. 23; v. 272; p. 578.
Porter Chemical Company, The. (See Porter, Harold M., assignor.)
Porter, Edgar S., Clifton, Colo. Machine for assorting fruit according to size. No. 1,342,571; June 8; v. 275; p. 241.
Porter, Edwin E., assignor to Moving Picture Appliance Co., Boston, Mass. Projecting apparatus for moving-picture machines. No. 1,356,787; Oct. 26; v. 279; p. 599.
Porter, Edwin F., assignor to United Mattress Machinery Company, Boston, Mass. Pump. No. 1,341,669; June 1; v. 275; p. 11.
Porter, Francis A., and L. L., Orderville, Utah. Rotary churn. No. 1,355,000; Oct. 5; v. 279; p. 109.
Porter, Frank S., Cushing, assignor of one-third to R. M. Porter, Pawnee, and one-third to E. F. Herrin, Cushing, Okla. Truck and brake for railway rolling-stock. No. 1,346,765; July 13; v. 276; p. 346.
Porter, Frank W., *et al.* (See Powers, Hubert D., assignor.)
Porter, George G., Syracuse, N. Y. Boring and cutting tool. No. 1,360,016; Nov. 23; v. 280; p. 702.
Porter, George M., and C. Yardusky, assignors of one-third to J. B. Brooks, New York, N. Y., and two-thirds to said Porter. Display-box. No. 1,334,259; Mar. 16; v. 272; p. 505.
Porter, Harold M., Hagerstown, Md., assignor to The Porter Chemical Company. Educational device. No. 1,350,237; Aug. 17; v. 277; p. 535.
Porter, Harry F., assignor to Pyrolectric Instrument Co., Trenton, N. J. Pyrometry. No. 1,363,267; Dec. 28; v. 281; p. 590.
Porter, Henry F., Seaford, Del. Handle. No. 1,362,506; Dec. 14; v. 281; p. 349.
Porter, Henry K., Brookline, Mass. Cutting-tool. No. 1,348,735; Aug. 3; v. 277; p. 117.
Porter, Herman P., Jacksonville, Fla. Sash-lock. No. 1,346,677; July 13; v. 276; p. 328.
Porter, Jack A., Hoath, Saskatchewan, Canada. Plow-share. No. 1,362,137; Dec. 14; v. 281; p. 278.
Porter, J. E., Company. (See Jordan, Burton S., assignor.)
Porter, James C. (See Stanley, J., and Porter.)
Porter, John G. (See Paulsen, Albert L., and Porter.)
Porter, John G., Weaverville, Calif. Rotary engine. No. 1,347,709; July 27; v. 276; p. 648.
Porter, Joseph W., Oakland, and R. L. Arndt, assignors to Union Tractor Company, San Francisco, Calif. Traction-belt. No. 1,339,786; May 11; v. 274; p. 288.
Porter, Lewis W., near New Carlisle, Ohio. Gas-engine. No. 1,338,039; Apr. 27; v. 273; p. 647.
Porter, Lysander. (See Porter, Francis A., and L.)
Porter, Nina M. (See Widing, Ivar, assignor.)
Porter, Robert L., Chicago, Ill. Baggage-check. No. 1,337,722; Apr. 20; v. 273; p. 517.
Porter, Robert S., assignor of one-half to D. C. Burnham, San Diego, Calif. Fuse-plug. No. 1,340,080; May 11; v. 274; p. 343.
Porter, Robert S., assignor of one-half to H. A. Williams, San Diego, Calif. Automatic flash-light for elevator-thresholds. No. 1,361,743; Dec. 7; v. 281; p. 153.
Porter, Rufus M., *et al.* (See Porter, Frank S., assignor.)
Porter, Russell N. (See Sweet, Howard J., assignor.)
Porter, Samuel J., Alexandria Bay, N. Y. Calk for horse-shoes. No. 1,361,744; Dec. 7; v. 281; p. 153.
Porter, Sarah J. (See Sawtelle, Charles A., assignor.)
Porter, Stephen C., Brooklyn, assignor to Porterphone Corporation, New York, N. Y. Telephone-transmitter. No. 1,341,997; June 1; v. 275; p. 75.
Porter, Willard E., Lynn, Mass., assignor to General Electric Company. Electric meter. No. 1,345,691; July 6; v. 276; p. 71.
Porter, Wilson E., assignor to New Haven Clock Co., New Haven, Conn. Alarm shut-off for nickel alarm-clocks. No. 1,332,569; Mar. 2; v. 272; p. 76.
Porter, Wilson E., New Haven, Conn., assignor to New Haven Clock Co. Removable self-holding washer for clock-movements. No. 1,348,517; Aug. 3; v. 277; p. 75.
Porter, Wilson E., assignor to New Haven Clock Co., New Haven, Conn. Stem-winding and stem-setting watch. No. 1,361,613; Dec. 7; v. 281; p. 128.
Porterphone Corporation. (See Porter, Stephen C., assignor.)
Portham, Roland S., London, England. Condenser and cooler. No. 1,363,531; Dec. 28; v. 281; p. 641.
Poser, Max., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Ophthalmic-test-lens frame. No. 1,337,265; Apr. 20; v. 273; p. 430.
Position-Light Signal Company, The. (See Goings, Clarence E., assignor.)
Pospeshil, Joseph B., Detroit, Mich. Auxiliary frame and spring attachment. No. 1,352,625; Sept. 14; v. 278; p. 211.
Pospisil, Rudolph E., Chippewa Falls, and E. Kurek, Madison, Wis., assignors of two-thirds to said Pospisil and one-third to said Kurek. Sugar process. No. 1,352,084; Sept. 7; v. 278; p. 72.
Pospyhala, Ignatius G., Spring Valley, Ill. Railway-track switch. No. 1,352,988; Sept. 14; v. 278; p. 285.
Posson, Edward, Chicago, Ill. Trap and drain for railway-cars. No. 1,329,015; Jan. 27; v. 270; p. 528.
Posson, Edward, Chicago, Ill. Car-truck. No. 1,348,124; July 27; v. 276; p. 730.
Posson, Edward, Chicago, Ill. Pneumatic-tire drive for dynamos of railway-cars. No. 1,350,467; Aug. 24; v. 277; p. 627.
Posson, Edward, Chicago, Ill. Grain-door for cars. No. 1,352,692; Sept. 14; v. 278; p. 225.
Posson, Edward, Chicago, Ill. Equalizer and brake mechanism for car-trucks. No. 1,363,347; Dec. 28; v. 281; p. 606.
Post Card Vending Machine Company. (See Wright, Charles B., assignor.)
Post, Charles B., New London, Ohio. Automatic controller for steering-gears. No. 1,353,610; Sept. 21; v. 278; p. 467.
Post, Charles R., New York, N. Y. Wind-indicator. No. 1,344,315; June 22; v. 275; p. 711.
Post, Claude L., Chicago, Ill. Envelop feeding and handling device. No. 1,337,266; Apr. 20; v. 273; p. 481.
Post, Elisha A., and E. F. Schmitz, Allegan, Mich. Burial-casket. No. 1,348,579; Aug. 3; v. 277; p. 87.
Post, Howard A., Kansas City, Mo. Foot-treating appliance. No. 1,342,597; June 8; v. 275; p. 245.
Post, Judson. (See Witter, Ezra E., assignor.)
Post, Landon E., and D. A. Riedy, San Francisco, Calif. Dehydrating plant. No. 1,349,908; Aug. 17; v. 277; p. 471.
Post, Truman W., Brooklyn, N. Y., assignor to Electric Auto-Lite Corporation, Toledo, Ohio. Headlight. No. 1,327,782; Jan. 13; v. 270; p. 221.
Postal, David, Brooklyn, and S. Hammer, New York, N. Y. Box structure. No. 1,335,296; Mar. 30; v. 272; p. 807.
Postel-Vinay, Pierre J. R., Paris, assignor to Societe Des Moteurs Salmson (Systeme Canton-Unne), Billancourt, Seine, France. Magneto. No. 1,334,675; Mar. 23; v. 272; p. 630.
Postel-Vinay, Pierre J. R., Paris, assignor to Societe Des Moteurs Salmson (Systeme Canton-Unne) Billancourt, Seine, France. Shock-absorber for airplane-radiators. No. 1,337,157; Apr. 13; v. 273; p. 335.
Postel-Vinay, Pierre J. R., Paris, assignor to Societe Des Moteurs Salmson (Systeme Canton-Unne), Billancourt, France. Metal fitting for connecting together certain structural members of an aeroplane. No. 1,340,626; May 18; v. 274; p. 504.
Postel-Vinay, Pierre J. R., Paris, assignor to Societe Des Moteurs Salmson (Systeme Canton-Unne), Billancourt, France. Junction-piece for connecting together certain structural members of aeroplanes. No. 1,345,024; June 29; v. 275; p. 914.
Postel-Vinay, Pierre J. R., assignor to Societe Des Moteurs Salmson, (Systeme Canton-Unne.) Paris, France. Magneto-frame. No. 1,349,962; Aug. 17; v. 277; p. 430.
Postel-Vinay, Pierre J. R., assignor to Societe Des Moteurs Salmson (Systeme Canton-Unne.) Paris, France. Means for securing rotary members of contractile materials to metallic hubs. No. 1,354,842; Oct. 5; v. 279; p. 79.
Postelle, J. M. (See Fowler, Lewis D., assignor.)
Postergraph Company, The. (See Pifer, George N., assignor.)
Postma, John, Loleta, Calif. Can-punch. No. 1,352,378; Sept. 7; v. 278; p. 127.
Poston, Leon L., Council Bluffs, Iowa. Artificial tooth. No. 1,338,959; May 4; v. 274; p. 57.
Postum Cereal Company. (See Lippen, Jonathan K., assignor.)
Potash Extraction Corporation. (See Glaeser, Walter, assignor.)
Potemkin, Louis. (See Natkiel, H., and Freedman, assignors.)
Pothier, Camille, Paris, France. Apparatus for use in splicing or assembling cables. No. 1,333,574; Mar. 9; v. 272; p. 317.
Poto, Mariano, assignor to Anciens Etablissements A. Combe & Fils & Cie., Paris, France. Straining leather or skins. No. 1,345,234; June 29; v. 275; p. 954.
Potstada, George, Oakland, Calif. Lamp-holder. No. 1,360,988; Nov. 30; v. 280; p. 960.
Potstada, George, Oakland, Calif. Hinged clamp. No. 1,360,989; Nov. 30; v. 280; p. 960.
Potten, Frederick. (See Mortimer, W., and Potten.)
Pottenger, Thomas T. (See Webb, G. C., and Pottenger.)
Potter, Charles H. (See Pierce, J. F., and Gordon, assignors.) (Reissue.)
Potter, Charles H., *et al.* (See Service, William F., assignor.)

Digitized by Google

Potter, Earl C., Chicago, Ill., assignor, by mesne assignments, to Sefton Manufacturing Corporation, Millbrook, N. Y. Shipping-box. No. 1,344,147; June 22; v. 275; p. 678.
Potter, Ellis M., New York, N. Y. Sanitary telephone attachment. No. 1,347,710; July 27; v. 276; p. 648.
Potter, Frederick C., Omaha, Nebr. Circuit-closer for vehicle-alarms. No. 1,340,344; May 18; v. 274; p. 451.
Potter, Frederick D. (See Hiss, N., and Potter.)
Potter, Frederick W., Los Angeles, Calif., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me. Lathe for cutting irregular objects. No. 1,362,182; Dec. 14; v. 281; p. 286.
Potter, George M., *et al.* (See Woodward, William H., assignor.)
Potter, Henry K., Somerville, Mass. Sweeping streets. No. 1,328,237; Jan. 13; v. 270; p. 316.
Potter, Horace W., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,358,462; Nov. 9; v. 280; p. 307.
Potter, Isaac B. (See Waggoner, Claude M., assignor.)
Potter, James C., Pawtucket, R. I. Automatic multiple-spindle lathe. No. 1,363,751; Dec. 28; v. 281; p. 683.
Potter, James C., Pawtucket, R. I. Automatic turret-lathe. No. 1,363,752; Dec. 28; v. 281; p. 683.
Potter, Joseph. (See Gill, H. T., and Lucas, assignors.)
Potter, Joseph L. (See Potter, Joseph L. and J. L.)
Potter, Joseph L. and J. L., Indianapolis, Ind. Excavating apparatus. No. 1,360,681; Nov. 30; v. 280; p. 900.
Potter, Mable D., Baltimore, Md. Maternity-corset. No. 1,356,402; Oct. 19; v. 279; p. 477.
Potter, Ralph S. (See Weiss, J. M. Bailey, and Potter.)
Potter, Thomas R. F., assignor to Lock Stub Check Company, Brooklyn, N. Y. Sales-check holder. No. 1,336,922; Apr. 13; v. 273; p. 291.
Potter, Walter P. (See Handshy, C. F., and Potter.)
Potter, William E., Armourdale, Kans. Swing. No. 1,355,260; Oct. 12; v. 279; p. 214.
Potter's Asbestos Co. (See Stafford, Arthur E., assignor.)
Potters Equipment Company, The. (See Solon, Marc, assignor.)
Pottorff, Russell B., Waynesboro, Pa. Transfer device for fruit-jar machines. No. 1,336,317; Apr. 6; v. 273; p. 115.
Potts, Charles W., Kellerton, Iowa. Door-controlling device. No. 1,337,954; Apr. 20; v. 273; p. 562.
Potts, Harold E., Liverpool, assignor to Simon-Carves, Ltd., Manchester, England. Contact process. No. 1,335,257; Mar. 30; v. 272; p. 800.
Potts, Joshua R. H. (See Griswold, J. H., and Lutz, assignors.)
Potts, Louis M., Baltimore, Md., assignor, by mesne assignments, to American Telephone and Telegraph Company, New York, N. Y. Roller-clutch. No. 1,356,557; Oct. 26; v. 279; p. 554.
Potts, Oscero W., Camden, N. J. Lens and making same. No. 1,332,410; Mar. 2; v. 272; p. 45.
Potts, Thomas C. and A. R. Mann, Holtville, Calif. Container with adjustable false bottom. No. 1,341,927; June 1; v. 275; p. 62.
Potts, Warren W., Elkhart, Ind. Adjustable illuminating-fixture. No. 1,327,733; Jan. 13; v. 270; p. 221.
Potwin, George H., Chicago, Ill. Loose-leaf book and leaf therefor. No. 1,358,986; Nov. 16; v. 280; p. 455.
Potwin, George H., assignor to Accounting Devices Company, Chicago, Ill. Loose-leaf device. No. 1,351,487; Aug. 31; v. 277; p. 888.
Poulain, Paul, Paris, France. Diamond-point cutting-tool. No. 1,346,056; July 6; v. 276; p. 144.
Poulsen, Oscar, *et al.*, administrators. (See Krogh, Ferdinand W.)
Pounder, Harry, Galion, Ohio. Hinge for doors of burial-vaults. No. 1,352,379; Sept. 7; v. 278; p. 127.
Poussin, Paul. (See Gallot, G., and Poussin.)
Pouvailsmith Corporation. (See Morgan, Henry S., assignor.)
Pouvailsmith Corporation. (See Smith, Grant E., assignor.)
Povelsen, Ingild, Washington, D. C. Compensating balance-wheel. No. 1,350,035; Aug. 17; v. 277; p. 496.
Povey, Charles, New York, N. Y. Safety teller's window. No. 1,335,601; Mar. 30; v. 272; p. 864.
Povotzky, Philip, Chicago, Ill. Carbureter. No. 1,338,960; May 4; v. 274; p. 57.
Powdered Coal Engineering Equipment Company. (See Pruden, Harry B., assignor.)
Powell, Alfred. (See Robson, W. H., and Powell.)
Powell, Earl J., assignor to The Dunham Company, Berea, Ohio. Tandem implement. No. 1,344,819; June 29; v. 275; p. 876.
Powell, Elwood L., Philadelphia, Pa., and H. J. Allersworth, St. Louis, Mo. Protractor-level. No. 1,339,787; May 11; v. 274; p. 289.
Powell, Francis M., Tacoma, Wash. Haystacker. No. 1,330,745; Feb. 10; v. 271; p. 293.
Powell, Harry E., Anderson, Ind. Bed-spring. No. 1,345,235; June 29; v. 275; p. 954.
Powell, James F., assignor of one-fourth to J. S. Hodgins, Flint, Mich. Telescopic container No. 1,344,716; June 29; v. 275; p. 855.
Powell, John T. (See Hubbard, Burtt J., assignor.)
Powell, Letitia, Caruthersville, Mo. Ladder. No. 1,340,627; May 18; v. 274; p. 505.
Powell, Lyman S., Chicago, Ill. Hydrocarbon generator and burner. No. 1,332,003; Feb. 24; v. 271; p. 619.
Powell, Mary W., San Francisco, Calif. Movie star-doll. No. 1,362,264; Dec. 14; v. 281; p. 303.
Powell, Neal, Cleveland, Ohio. Adjustable scaffold and ladder. No. 1,357,185; Oct. 26; v. 279; p. 676.
Powell, Norris D., assignor to Baldt Anchor Company, Chester, Pa. Divided stud-link. No. 1,358,108; Nov. 9; v. 280; p. 235.
Powell, Peter, assignor of one-half to J. Rosenfield, Boston, Mass. Air-bag. No. 1,329,208; Jan. 27; v. 270; p. 564.
Powell, R. E. (See Marshall, Chilton M., assignor.)
Powell, Ransom J., Minneapolis, Minn. Casting-machine. No. 1,341,670; June 1; v. 275; p. 11.
Powell, Robert, St. Louis, Mo. Apparatus for making an underground passageway and for making and laying a pipe in same. No. 1,340,836; May 18; v. 274; p. 543.
Powell, Rosa E., administratrix. (See Powell, Walter E.)
Powell, Thomas F., Retsil, Wash. Aerial toy parachute. No. 1,362,894; Dec. 21; v. 281; p. 477.
Powell, Walter E., deceased; R. E. Powell, administratrix, assignor of one-half to C. Wardrip, Wichita Falls, Tex. Hay-press. No. 1,358,109; Nov. 9; v. 280; p. 235.
Powell, Winfred T., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Automatic telephone system. No. 1,337,324; Apr. 20; v. 273; p. 442.
Powell, Winfred T., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,363,268; Dec. 28; v. 281; p. 590.
Powell, Winfred T., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,350,882; Aug. 24; v. 277; p. 706.
Powell, Winfred T., assignor to Automatic Electric Company, Chicago, Ill. Selective signaling system. No. 1,352,217; Sept. 7; v. 278; p. 96.
Powell, Winfred T., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,356,010; Oct. 19; v. 279; p. 392.
Power, Henry, assignor of one-half to W. Halton, Montreal, Quebec, Canada. Sanding device. No. 1,352,026; Sept. 14; v. 278; p. 211.
Power, Henry, assignor of one-half to W. Halton, Montreal, Quebec, Canada. Sanding device. No. 1,362,350; Dec. 14; v. 281; p. 320.
Power, Jeffrey J., assignor to Power, Stevens Fan Devices Company, Madison, Wis. Laundry-drier. No. 1,338,696; May 4; v. 274; p. 9.
Power, Nicholas, Brooklyn, assignor to Nicholas Power Company, New York, N. Y. Stand for moving-picture machines. No. 1,337,267; Apr. 20; v. 273; p. 431.
Power, Nicholas, Brooklyn, assignor to Nicholas Power Company, New York, N. Y. Safety device for moving-picture machines. No. 1,352,218; Sept. 7; v. 278; p. 96.
Power, Nicholas, Brooklyn, assignor to E. J. Hadley, New York, N. Y. Apparatus for exhibiting moving pictures. No. 1,355,569; Oct. 12; v. 279; p. 273.
Power, Patrick M. (See Edman, John, assignor.)
Power Specialty Company. (See Foster, Ernest H., assignor.)
Power Specialty Company. (See Primrose, John, assignor.)
Power, Stevens Fan Devices Company. (See Power, Jeffrey J., assignor.)
Powers Accounting Machine Company. (See Bassett, William H., assignor.)
Powers Accounting Machine Company. (See Lasker, William W., assignor.)
Powers, Anthony J., New Orleans, La. Concrete-mixing apparatus. No. 1,332,063; Feb. 24; v. 271; p. 630.
Powers, Charles C., Kernville, Calif. Electric locomotive. No. 1,341,243; May 25; v. 274; p. 693.
Powers, Franklin H., assignor of one-fourth to H. C. Fugate, one-fourth to L. E. Heisler, and one-fourth to R. C. Ketcham, West Palm Beach, Fla. Process and apparatus for separating and extracting the fibers from fibrous materials. No. 1,359,101; Nov. 16; v. 280; p. 476.
Powers, Hubert D., assignor of one-fourth to F. W. Porter and one-fourth to A. E. Porter, Seattle, Wash. Liquid-fuel tank. No. 1,361,614; Dec. 7; v. 281; p. 128.
Powers, James M., Miami, Fla. Hatband. No. 1,342,924; June 8; v. 275; p. 310.
Powers, John C., Rockwell City, Iowa. Corn-planter. No. 1,339,576; May 11; v. 274; p. 248.
Powers, John E., Pike, N. Y. Guard for keyholes. No. 1,341,439; May 25; v. 274; p. 731.
Powers Photo Engraving Company. (See Leitner, Emil, assignor.)
Powers, Timothy B., Brooklyn, N. Y., and W. Fuhrmann, Westfield, N. J. Calipers. No. 1,345,236; June 29; v. 275; p. 954.
Powers, Timothy B., Brooklyn, assignor to J. B. Bander, New York, N. Y. Signal for vehicles. No. 1,334,047; Mar. 16; v. 272; p. 467.
Powers, Timothy B., Brooklyn, assignor to J. B. Bander, New York, N. Y. Bracket for signal-casings. No. 1,334,048; Mar. 16; v. 272; p. 467.

Digitized by Google

Powers, Wallace O., Springfield, Mass. Tool. No. 1,331,824; Feb. 24; v. 271; p. 585.
Powlick, John J., Clairton, Pa. Rail-joint. No. 1,342,065; June 1; v. 275; p. 89.
Poynter, Ambrose M., London, England. Tire. No. 1,335,916; Apr. 6; v. 273; p. 40.
Pozzo, Alberto, and G. Colonnetti, Turin, Italy. Apparatus for testing irons. No. 1,335,985; Apr. 6; v. 273; p. 53.
Prache, Charles, Paris, France. Evaporating and crystallizing apparatus especially adapted for obtaining large crystals. No. 1,331,373; Feb. 17; v. 271; p. 479.
Pradairol, Jean M., Bordeaux, France. Apparatus for purifying and drying steam. No. 1,335,602; Mar. 30; v. 272; p. 864.
Prado, Manuel, Tacuba, Mexico. Artesian-well-drilling machine. No. 1,338,442; Mar. 9; v. 272; p. 291.
Prall, James H. (See Innes, G., and Prall.)
Prall, James H., Innes, Saskatchewan, Canada, assignor of one-half to G. Innes, Philadelphia, Pa. Shocker. No. 1,341,586; May 25; v. 274; p. 760.
Prangnell, Norman W. (See Ewart, Samuel and J. W., and Prangnell.)
Prantner, Rudolf, Wright, Minn. Power-transmission device. No. 1,353,936; Sept. 28; v. 278; p. 574.
Praszek, Anthony, deceased, Hazelton, Pa.; L. Cirniawa, administrator. Safety-envelop. No. 1,360,793; Nov. 30; v. 280; p. 922.
Prather, Arthur, Skidmore, Mo. Wheel. No. 1,327,253; Jan. 6; v. 270; p. 70.
Prather, Lee R. (See Wiig A., Braden, and Prather.)
Prather, Willis M., Kansas City, Mo. Apparatus for mixing concrete conglomerates. No. 1,331,576; Feb. 24; v. 271; p. 538.
Pratt, Alphonso C., Deep River, Conn. Apparatus for making gromets. No. 1,327,170; Jan. 6; v. 270; p. 54.
Pratt, Alphonso C., Deep River, Conn. Gromet or tire-bead and making them. No. 1,334,635; Mar. 23; v. 272; p. 623.
Pratt, Arthur D., Summit, assignor to The Babcock & Wilcox Company, Bayonne, N. J. System of variation between sizes or classes of semivertical curved-tube boilers. No. 1,363,915; Dec. 28; v. 281; p. 715.
Pratt & Cady Company. (See Cardwell, Addison A., assignor.)
Pratt, Charles A., assignor to Goodman Manufacturing Company, Chicago, Ill. Power-shovel. No. 1,340,498; May 18; v. 274; p. 480.
Pratt, Charles M., Towanda, Pa. Stamp-moistener. No. 1,342,824; June 8; v. 275; p. 291.
Pratt, Charles N., Wawaset, Pa. Wagon-loading device. No. 1,335,699; Mar. 30; v. 272; p. 883.
Pratt, Charles R., Montclair, N. J., assignor to Universal Speed Company. Fluid-power-transmission pump or motor. No. 1,362,040; Dec. 14; v. 281; p. 259.
Pratt, Charles S., Eau Claire, Wis. Wire clothespin. No. 1,346,608; July 13; v. 276; p. 314.
Pratt, David S. (See Hedenburg, O. F., and Pratt.)
Pratt, Edward J., assignor to Western Electric Company, Incorporated, New York, N. Y. Induction-coil. No. 1,362,138; Dec. 14; v. 281; p. 279.
Pratt, Elmer M., and A. H. Rockefeller, Macksville, Kans.; said Pratt assignor to said Rockefeller. Portable nest structure. No. 1,350,264; Aug. 17; v. 277; p. 540.
Pratt Engineering & Machine Company. (See Hurt, George F., assignor.)
Pratt, Frederic W., Vancouver, British Columbia, Canada. Boiler attachment. No. 1,331,525; Feb. 24; v. 271; p. 528.
Pratt, George R., Williston, N. D. Sanitary drinking-fountain. No. 1,354,064; Sept. 28; v. 278; p. 601.
Pratt, Howell D., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Loading apparatus. No. 1,343,746; June 15; v. 275; p. 535.
Pratt, Howell D., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Box-car loader. No. 1,346,678; July 13; v. 276; p. 328.
Pratt, Howell D., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Wagon-loader. No. 1,346,679; July 13; v. 276; p. 328.
Pratt, Howell D., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Box-car loader. No. 1,346,680; July 13; v. 276; p. 328.
Pratt, Howell D., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Car-unloader. No. 1,346,681; July 13; v. 276; p. 329.
Pratt, Lewis M., Eldorado, Kans. Treadmill. No. 1,330,091; Feb. 10; v. 271; p. 171.
Pratt-Low Preserving Co. (See Gavin, William H., assignor.)
Pratt Read Player Action Company, The. (See Fisher, Stanley L., assignor.)
Pratt Read Player Action Company, The. (See Moore, E. D., and Fisher, assignors.)
Pratt, Robert C., Calhoun, Okla. Propeller. No. 1,345,237; June 29; v. 275; p. 955.
Pratt, Walter J. (See Smith, Joseph H., assignor.)
Pratt, Walter M., Detroit, Mich. Reinforced-concrete floor construction. No. 1,340,291; May 18; v. 274; p. 440.
Pratt & Whitney Company. (See Hanson, Bengt M. W., assignor.)
Pratt & Whitney Company. (See Müller, Friederich, assignor.)
Pratt & Whitney Company. (See Thacker, John J., assignor.)
Pratt, William A., Bayonne, N. J., assignor to The M. W. Kellogg Company, New York, N. Y. Apparatus for welding. No. 1,343,277; June 15; v. 275; p. 443.
Pratt, William A., Bayonne, N. J., assignor to The M. W. Kellogg Company, New York, N. Y. Pipe-bending machine. No. 1,359,525; Nov. 23; v. 280; p. 604.
Pratt, William B., Wellesley, assignor to E. H. Clapp Rubber Company, Boston, Mass. Sulfur-terpene compound. No. 1,349,909; Aug. 17; v. 277; p. 471.
Pratt, William B., Wellesley, assignor to E. H. Clapp Rubber Company, Boston, Mass. Waterproofed fabric. No. 1,349,910; Aug. 17; v. 277; p. 471.
Pratt, William B., Wellesley, assignor to E. H. Clapp Rubber Company, Boston, Mass. Vulcanized article and producing same. No. 1,349,911; Aug. 17; v. 277; p. 472.
Pratt, William B., Wellesley, assignor to E. H. Clapp Rubber Company, Boston, Mass. Article and bonding metal and vulcanized rubber. No. 1,349,912; Aug. 17; v. 277; p. 472.
Pratt, William B., Wellesley, assignor to E. H. Clapp Rubber Company, Boston, Mass. Pneumatic tire and making same. No. 1,349,913; Aug. 17; v. 277; p. 472.
Pratt, William B., Wellesley, assignor to E. H. Clapp Rubber Company, Boston, Mass. Solid tire and making same. No. 1,349,914; Aug. 17; v. 277; p. 472.
Pratte, Alphonsine P. (See Pratte, François J. A., assignor.)
Pratte, François J. A., assignor to A. P. Pratte, Montreal, Quebec, Canada. Talking-machine. No. 1,327,776; Jan. 13; v. 270; p. 229.
Pray, Charles H., Los Angeles, Calif. Fire-escape. No. 1,343,642; June 15; v. 275; p. 514.
Prebble, Andrew, Altoona, Kans. Game apparatus. No. 1,348,442; Aug. 3; v. 277; p. 61.
Preble, George L., Lynn, Mass. Insole. No. 1,340,404; May 18; v. 274; p. 462.
Preble, Henry T., Stockton, Calif. Self-propelled vehicle. No. 1,344,353; June 22; v. 275; p. 719.
Precerutti, Gioachino C., Turin, Italy. Apparatus for washing eyes. No. 1,331,374; Feb. 17; v. 271; p. 470.
Preddey, Walter G., San Francisco, Calif. Picture-projection lamp. No. 1,340,499; May 18; v. 274; p. 480.
Predigest Food Company. (See Taylor, Richard L. D., assignor.)
Pregler, Michael P., Chicago, Ill. Scrubbing-machine. No. 1,329,474; Feb. 3; v. 271; p. 25.
Preining, Adolf J., Detroit, Mich. Liquid-fuel torch. No. 1,338,840; May 4; v. 274; p. 35.
Prell, Henry, Cleveland, Ohio. Vibrator. No. 1,352,219; Sept. 7; v. 278; p. 97.
Prell, Harry A., Hartford, Wis. Radiator. No. 1,330,342; Feb. 10; v. 271; p. 218.
Prellwitz, William, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Plate-valve. No. 1,352,025; Sept. 7; v. 278; p. 61.
Premier Motor Corporation of America. (See Taylor, John S., assignor.)
Premier Register Table Company. (See West, Elbert L. and J., assignors.)
Prendergast, Edward, St. Louis, Mo. Road-machine. No. 1,352,989; Sept. 14; v. 278; p. 285.
Prendergast, Harold Y., New York, N. Y. Sound-box. No. 1,338,395; Apr. 27; v. 273; p. 714.
Prendergast, Harold Y., New York, N. Y. Sound-box. No. 1,338,396; Apr. 27; v. 273; p. 714.
Prendergast, James, Syracuse, N. Y. Barrel-hoop. No. 1,360,792; Nov. 30; v. 280; p. 922.
Prenn, Joseph, Boston, Mass. Mechanical bone-conductive ear. No. 1,346,721; July 13; v. 276; p. 337.
Prentice, William D., Fargo, N. D. Tractor-frame. No. 1,354,128; Sept. 28; v. 278; p. 615.
Prentiss, Augustin M., Fort Caswell, N. C., assignor of one-half to D. E. Bulloch, Washington, D. C. Carbureter. No. 1,329,308; Jan. 27; v. 270; p. 582.
Prentiss, Augustin M., Rock Island, Ill., assignor of one-half to D. E. Bulloch, Washington, D. C. Carbureter. No. 1,329,309; Jan. 27; v. 270; p. 582.
Preo, John L., and I. Henne, New York, N. Y. Wooden French shoe-heel. No. 1,340,910; May 25; v. 274; p. 628.
Preo, John L., and I. Henne, New York, N. Y. Wooden French shoe-heel. No. 1,340,911; May 25; v. 274; p. 629.
Presby, Leroy Q., Melrose, assignor to C. S. Luitwieler, Newton, and F. W. Merrick, Boston, Mass. Tool-holder. No. 1,336,155; Apr. 6; v. 273; p. 85.
Prescott, Charles F., Brooklyn, N. Y. Steam-engine valve-gear. No. 1,340,405; May 18; v. 274; p. 462.
Prescott, Charles F., Brooklyn, N. Y., assignor to Franklin Railway Supply Company, Wilmington, Del. Locomotive drifting device. No. 1,330,392; Feb. 10; v. 271; p. 227.
Prescott, Edwin, Arlington, Mass. Shutter-operating device. No. 1,329,927; Feb. 3; v. 271; p. 109.
Prescott, Ford L., Elmira, N. Y. Calculating device. No. 1,338,588; Apr. 27; v. 273; p. 749.

Digitized by Google

Prescott, Sumner K., Seattle, Wash. Steering mechanism for motor-driven tractors or trucks. No. 1,359,739; Nov. 23; v. 280; p. 647.
Prescott, Sydney I., New York, N. Y. Rifle-sight. No. 1,359,740; Nov. 23; v. 280; p. 647.
Presicce, Giuseppe de'Liguoro, Rome, Italy. Cinematographic process. No. 1,358,110; Nov. 9; v. 280; p. 286.
Presley, Albert L., Calvin, Okla. Necktie-clasp. No. 1,358,244; Nov. 9; v. 280; p. 262.
Press, Earle P., Lake Bluff, Ill. Reinforced concrete construction. No. 1,348,445; Aug. 3; v. 277; p. 62.
Press, Jacob H. (See Avery, Irving F., assignor.)
Press, Jacob H., Chicago, Ill. Motor-vehicle. No. 1,348,241; Aug. 3; v. 277; p. 22.
Press, John. (See Reichmann, F. J., and Press.)
Press, Plimpton. (See Scriven, Bernard E., assignor.)
Pressed Bearing Company. (See Klocke, William, assignor.)
Pressed Metal Radiator Company. (See Sonneborn, Charles, assignor.)
Pressed Steel Car Company. (See Cotton, Charles S., assignor.)
Pressed Steel Car Company. (See Howe, Harry, assignor.)
Pressed Steel Car Company. (See Lindström, Charles A., assignor.)
Pressed Steel Car Company. (See Lockwood, B. D., and Suckfield, assignors.)
Pressed Steel Car Company. (See Lockwood, Burns D., assignor.)
Pressed Steel Car Company. (See Reeder, Nathaniel S., assignor.)
Pressed Steel Car Company. (See Streib, John F., assignor.)
Pressed Steel Company. (See Lockwood, B. D., and Streib, assignors.)
Pressler, Charles F., Fort Wayne, Ind. Liquid-measuring pump. No. 1,328,101; Jan. 13; v. 270; p. 290.
Pressure Proof Piston Ring Company. (See Hill, Charles K., assignor.)
Pressure Proof Piston Ring Company. (See Marshall, Lewis C., assignor.)
Presteel Mfg. Company. (See Carlson, Androw H., assignor.)
Prest-O-Lite Co. (See Smith, H. S., and Crume, assignors.)
Prest-O-Lite Company, The. (See Fisher, Carl G., assignor.)
Prest-O-Lite Company, The. (See Noble, I. M., and Gossling, assignors.)
Preston, Albert F., Boston, Mass. Adjustable blank-holder for pattern-grading and other machines. No. 1,328,689; Jan. 20; v. 270; p. 437.
Preston, Charles L., Houston, Tex. Sliding caster. No. 1,359,741; Nov. 23; v. 280; p. 647.
Preston, Edward S., Chicago, Ill. Dashboard lamp-socket. No. 1,348,893; Aug. 10; v. 277; p. 199.
Preston, Francis W. (See Taylor, W., and Preston.)
Preston, Grace D., Spartanburg, S. C., assignor of two-fifths to A. G. Smith, Elyria, Ohio. Fastening device. No. 1,336,156; Apr. 6; v. 273; p. 85.
Preston, Harry J., San Jose, Calif. Detachable-rim fastener. No. 1,331,375; Feb. 17; v. 271; p. 479.
Preston, John C., Balmain, near Sydney, and J. Malcolm, Lindfield, near Sydney, New South Wales, Australia. Nursery service-wagon. No. 1,353,180; Sept. 21; v. 278; p. 382.
Preston, Ward H. (See Bullock, F. J., and Preston.)
Prestwich, Sydney, Cincinnati, assignor to The American Laundry Machinery Company, Norwood, Ohio. Self-lubricating bearing. No. 1,357,420; Nov. 2; v. 280; p. 41.
Prettyman, Daniel M., and G. H. Brown, Portland, Oreg. Spark-plug. No. 1,332,064; Feb. 24; v. 271; p. 630.
Prevost, William J., Springfield, Mass. Match-box. No. 1,340,980; May 25; v. 274; p. 643.
Prew, Raymond, Detroit, Mich. Auger. No. 1,352,313; Sept. 7; v. 278; p. 115.
Prey, Herman C., Watertown, S. D. Electric clock and signal system. No. 1,336,318; Apr. 6; v. 273; p. 116.
Pribil, Alexis R., Cleveland, Ohio. Making connecting-rods. No. 1,350,177; Aug. 17; v. 277; p. 523.
Pribil, Alexis R., Saginaw, Mich. Making connecting-rods. No. 1,350,178; Aug. 17; v. 277; p. 523.
Pribil, Alexis R., Saginaw, Mich. Connecting-rod. No. 1,355,961; Oct. 12; v. 279; p. 214.
Pribil, Alexis R., Saginaw, Mich. Oil-cup. No. 1,363,812; Dec. 28; v. 281; p. 695.
Priborsky, Otto A., Sioux City, Iowa. Rolling-pin. No. 1,357,001; Oct. 26; v. 279; p. 641.
Price, David D., Norman, Okla. Boat-oar. No. 1,346,554; July 13; v. 276; p. 304.
Price, Howard W. (See Meriam, J. R., and Price.)
Price, James A., assignor to Price Oil Tank Works, Inc., New Orleans, La. Liquid dispensing apparatus. No. 1,335,700; Mar. 30; v. 272; p. 883.
Price, James D. (See Kitchen, E. B., and Price.)
Price, James W., Tulsa, Okla. Check-protector. No. 1,363,916; Dec. 28; v. 281; p. 715.
Price, James W., Henryetta, assignor of one half to H. S. Miller, Henryetta, and one-eighth to G. W. Webster and one-eighth to S. S. Webster, Tulsa, Okla. Clipper. No. 1,346,249; July 13; v. 276; p. 243.
Price, James W., Henryetta, Okla., assignor of one-half to H. S. Miller, Sidney, Ohio. Steering device for motor-vehicles. No. 1,356,170; Oct. 19; v. 279; p. 432.
Price, John B., Fort Thomas, Ky. Polyphase induction-motor. No. 1,362,959; Dec. 21; v. 281; p. 489.
Price, Joseph H., Dolgelley, Wales. Sight for rifles, pistols, and the like. No. 1,330,002; Feb. 3; v. 271; p. 128.
Price, Joseph H., Cape Girardeau, Mo. Spark and throttle lever lock. No. 1,331,873; Feb. 24; v. 271; p. 595.
Price, Joseph H., Cape Girardeau, Mo. Spark and throttle lever lock. No. 1,353,693; Sept. 14; v. 278; p. 225.
Price, Monte G., *et al.* (See Hachmann, Frederick, assignor.)
Price, Nathan H., Shannon, Ala. Pipe. No. 1,351,683; Aug. 31; v. 277; p. 927.
Price Oil Tank Works. (See Price, James A., assignor.)
Price, Raymond B., New York, N. Y., assignor to The Goodyear's Metallic Rubber Shoe Company. Last for footwear. No. 1,342,970; June 8; v. 275; p. 319.
Price, Raymond B., New York, N. Y., assignor to Rubber Refrigerating Company. Testing-machine. No. 1,347,291; July 20; v. 276; p. 508.
Price, Stephen C., Louisiana, assignor to P. B. B. Pump Company, Hannibal, Mo. Oil-can. No. 1,362,186; Dec. 14; v. 281; p. 288.
Price, Thornton W., New York, N. Y. Ingot-stripper. No. 1,352,026; Sept. 7; v. 278; p. 61.
Price & Teeple Piano Company. (See Freborg, Charles, assignor.)
Price, Virgil M., Alameda, Calif. Concrete-mixer loader. No. 1,340,845; May 18; v. 274; p. 451.
Price, Walter B., Los Angeles, Calif., and E. Dietz, New Orleans, La. Apparatus for continuously cracking oils. No. 1,349,294; Aug. 10; v. 277; p. 279.
Price, William E. (See Pennefather, James S., assignor.)
Price, William G., North Yakima, Wash. Bag-holder. No. 1,363,012; Dec. 21; v. 281; p. 500.
Price, William T., New Rochelle, assignor to De La Vergne Machine Company, New York, N. Y. Combustion-engine. No. 1,351,718; Aug. 31; v. 277; p. 933.
Prichard, Wyndham J. (See Howitt, H. G., Prichard, and Evans.)
Prickett, Wilber W., Jerome, Idaho. Weir. No. 1,359,915; Nov. 23; v. 280; p. 682.
Prideaux, Francis J., Adrian, Minn. Chimney for oil-burning cook-stoves. No. 1,361,491; Dec. 7; v. 281; p. 103.
Prideaux, William de C., Weymouth, England. Construction of link for ammunition-belts for machine-guns. No. 1,343,060; June 8; v. 275; p. 337.
Pridgen, Wiley H., Creek, N. C. Compressed-air device for handling gasolene. No. 1,350,517; Aug. 24; v. 277; p. 636.
Pridham, Edwin S., assignor to The Magnavox Company, San Francisco, Calif. Telephone system. No. 1,356,403; Oct. 19; v. 279; p. 477.
Pridham, Edwin S., and P. L. Jensen, Napa, assignors to Commercial Wireless and Development Co., San Francisco, Calif. Sound-magnifying phonograph. No. 1,329,928; Feb. 3; v. 271; p. 109.
Pridmore, Edward A., La Grange, Ill. Molding-machine. No. 1,351,871; Sept. 7; v. 278; p. 32.
Priebe, Ernest B., assignor of one-half to W. C. Drake, Inwood, N. Y. Furnace-grate. No. 1,360,250; Nov. 23; v. 280; p. 748.
Priest, Charles P., Philadelphia, Pa. Extracting precious metals. No. 1,352,832; Sept. 14; v. 278; p. 254.
Priest, Edward A., Trenton, N. J. Railway-tie. No. 1,341,587; May 25; v. 274; p. 760.
Priest, Edward D., Schenectady, N. Y., assignor to General Electric Company. Cover-hinge for electric machines. No. 1,331,874; Feb. 24; v. 271; p. 595.
Priest, Edward D., assignor to General Electric Company, Schenectady, N. Y. Commutator for dynamo-electric machines. No. 1,349,854; Aug. 17; v. 277; p. 461.
Priest, George W., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Producing linoleum and product thereof. No. 1,334,049; Mar. 16; v. 272; p. 467.
Priest, George W., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Producing linoleum and product thereof. No. 1,334,050; Mar. 16; v. 272; p. 467.
Priest, Henry M., R. H. Ford, A. L. Greenbaum, and C. P. Richardson, Chicago, Ill. Concrete building construction. No. 1,345,880; July 6; v. 276; p. 108.
Priestly Coupler Company. (See Aubery, James M., assignor.)
Prigan, Gustave H., Burns, Mont. Harvester-reel arm. No. 1,336,536; Apr. 13; v. 273; p. 217.
Prillwitz, Henry F., Chicago, Ill. Acetylene-gas generator. No. 1,360,682; Nov. 30; v. 280; p. 900.
Prime, Orton L., Milwaukee, Wis. Forming composite metal plugs. No. 1,334,051; Mar. 16; v. 272; p. 467.
Primolite Company. (See Howard, Elverton I., assignor.)
Primrose, John, assignor to Power Specialty Company, New York, N. Y. Superheater. No. 1,359,916; Nov. 23; v. 280; p. 682.

Digitized by Google

Alphabetical list of patentees—Continued.

Prince, Benjamin A., and E. I. La Count, assignors to Orcutt Automatic Train Control Company, Worcester, Mass. Train-controlling system. No. 1,336,484; Apr. 13; v. 273; p. 207.

Prince, Benjamin A., and E. I. La Count, assignors to Orcutt Automatic Train Control Company, Worcester, Mass. Train-controlling system. No. 1,342,572; June 8; v. 275; p. 241.

Prince, Carrie S., Peekskill, N. Y. Legging. No. 1,363,348; Dec. 28; v. 281; p. 606.

Prince, Clarence K., Westfield, Mass. Mold-handling machine. No. 1,337,268; Apr. 20; v. 273; p. 481.

Prince, Clarence K., Westfield, Mass. Combined mold-pouring and weighting unit. No. 1,339,133; May 4; v. 274; p. 91.

Prince, Clarence K., Westfield, Mass. Mold-assembling crane. No. 1,343,335; June 15; v. 275; p. 454.

Prince, Clarence K., Westfield, Mass. Method of and apparatus for making and handling castings. No. 1,347,552; July 27; v. 276; p. 616.

Prince, Clarence K., Westfield, Mass. Pipe-flange-turning machine. No. 1,349,434; Aug. 10; v. 277; p. 306.

Prince, Jean A., and A. L. Gilles, Nice, France. Vehicle-tire. No. 1,346,766; July 13; v. 276; p. 243.

Prince, John. (See Nilson, J. L., and Prince.)

Prince, John. (See Nilson and Prince.)

Prince, John, Malanda, Queensland, Australia. Milking-machine. No. 1,358,987; Nov. 16; v. 280; p. 455.

Prince, John D., Boston, Mass. Leather substitute. No. 1,336,858; Apr. 13; v. 273; p. 279.

Prindle, Edwin J., East Orange, N. J., assignor, by mesne assignments, to Fitz-Empire Double Pivot Last Company, Auburn, Me. Grading mechanism, a scale, and forming said scale for last-turning lathes. No. 1,334,400; Mar. 23; v. 272; p. 579.

Prindle, Edwin J., East Orange, N. J., assignor, by mesne assignments, to Fitz-Empire Double Pivot Last Company, Auburn, Me. Manufacture of articles having a systematic resemblance to a pattern. No. 1,362,184; Dec. 14; v. 281; p. 287.

Prindle, Harry A., East Orange, N. J. Combined centrifugal pump and motor. No. 1,354,129; Sept. 28; v. 278; p. 615.

Pringle, Alexander, and T. S. Kirk, Belfast, Ireland. Operating mechanism for artificial hands. No. 1,338,155; Apr. 27; v. 273; p. 668.

Pringle, Philip, Lipton, Saskatchewan, Canada. Valve-spring lifter. No. 1,361,492; Dec. 7; v. 281; p. 104.

Pringle, R. E. T., Limited. (See Buskard, Samuel G., assignor.)

Pringle, William A., Niagara Falls, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Slitting mechanism. No. 1,347,872; July 27; v. 276; p. 680.

Printing Press Extension Delivery Company. (See Hildebrand, William R., assignor.)

Printing Trades Manufacturing Company. (See Holmes, Edgar L., assignor.)

Printograph Manufacturing Co. (See Duscher, Ernest, assignor.)

Prinz, Charles C., Louisville, Ky. Record-cleaner. No. 1,343,156; June 8; v. 275; p. 356.

Prior, William and William L., Kent, and J. S. Gibson, assignors to The Hollow Structure and Aircraft Company Limited, London, England. Manufacture of hollow articles from wood laminæ. No. 1,355,778; Oct. 12; v. 279; p. 313.

Prior, William L. (See Prior, William and W. L., and Gibson.)

Prisbrey, George W., assignor of one-third to Grant Prisbrey, St. George, Utah. Artificial leg. No. 1,350,518; Aug. 24; v. 277; p. 637.

Prisbrey, George W., assignor of one-sixth to B. Carpenter and one-sixth to R. Fawcett, St. George, Utah. Portable metal-turning lathe. No. 1,352,380; Sept. 7; v. 278; p. 127.

Prisbrey, Grant. (See Prisbrey, G. W., assignor.)

Pritchard, Albert R., New York, N. Y. Heating apparatus. No. 1,327,213; Jan. 6; v. 270; p. 63.

Pritchard, Carl G., Warren, Ohio, assignor to The Harris Automatic Press Company, Cleveland, Ohio. Automatic scraper control for rotogravure-printing presses. No. 1,362,638; Dec. 21; v. 281; p. 427.

Pritchard, Mell T., Medina, Ohio. Bee-shipping package. No. 1,361,404; Dec. 7; v. 281; p. 85.

Pritelli, Vincenzo, Rome, Italy. Airship. No. 1,351,301; Aug. 31; v. 277; p. 851.

Pritner, Lindsay C., and L. S. Paul, Johnstown, Pa. Tire-holder. No. 1,329,475; Feb. 3; v. 271; p. 25.

Pritner, Lindsay C., and L. S. Paul, Johnstown, Pa. Tire-carrier. No. 1,331,124; Feb. 17; v. 271; p. 433.

Prisma Incorporated. (See Blaney, Jesse M., assignor.)

Prizma, Incorporated. (See Kelley, William V. D., assignor.)

Prizma Incorporated. (See Kelley, W. V. D., and Mason, assignors.)

Prizma, Incorporated. (See Mason, Joseph, assignor.)

Prizma Incorporated. (See Raleigh, C., and Kelley, assignors.)

Probasco, Purley O., Buhl, Idaho. Auto-rim tool. No. 1,344,562; June 22; v. 275; p. 760.

Probst, George W., assignor of one-third to R. S. Probst and one-third to V. Probst, Lock Haven, Pa. Rail-joint. No. 1,335,751; Apr. 6; v. 273; p. 9.

Probst, John P., Marion, Ohio. Filter. No. 1,361,493; Dec. 7; v. 281; p. 104.

Probst, Ray S., *et al.* (See Probst, George W., assignor.)

Probst, Verne, *et al.* (See Probst, George W., assignor.)

Process Company, The. (See Coast, John W., Jr., assignor.)

Proctor, Francis D., and A. Losson, Monroe City, Mo. Automatic safety-gate. No. 1,331,673; Feb. 24; v. 271; p. 556.

Procunier, Frank G., De Soto, assignor of one-half to R. Q. Kimmel, Elkville, Ill. Compound-engine guide. No. 1,340,740; May 18; v. 274; p. 526.

Procunier, Frank R., assignor of one-fourth to J. C. Stryker, one-fourth to L. N. Turner, and one-fourth to L. H. Nissen, Chicago, Ill. Automobile-bumper. No. 1,352,220; Sept. 7; v. 278; p. 97.

Products Syndicate, Inc. (See Byers, Joseph J., assignor.)

Proescher, Frederick, Sioux City, Iowa. Artificial cultivation of the hog-cholera virus. No. 1,334,318; Mar. 23; v. 272; p. 568.

Proffitt, George H., Wichita, Kans. Combination lid-fastener and card-holder. No. 1,341,588; May 25; v. 274; p. 760.

Prole, Margaret J., *et al.* (See Prole, William A., assignor.)

Prole, William A., San Francisco, assignor of one-half to R. L. Oliver and one-half to M. J. Prole, Oakland, Calif. Coöperative cash-discount coupon. No. 1,331,577; Feb. 24; v. 721; p. 538.

Promenschenkel, Joseph W., Shelby, Ohio. Ear-snapping and corn-husking machine. No. 1,344,563; June 22; v. 275; p. 761.

Propert, Thomas G., and W. R. Brown, assignors of one-third to A. T. Woolford, Chippendale, New South Wales, Australia. Snap-lock for doors, gates, and the like. No. 1,347,292; July 20; v. 276; p. 509.

Prophet, Robert M., Rutherford, N. J., assignor to Reis-Premier Pipe Company, Chicago, Ill. Smoking-pipe. No. 1,356,736; Oct. 26; v. 279; p. 589.

Proppe, Albert, Fulton, N. Y. Candlestick. No. 1,358,651; Nov. 9; v. 280; p. 344.

Propson, Carl F., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,330,819; Feb. 17; v. 271; p. 375.

Prosser, Joseph W., New York, N. Y. Motor-vehicle drive. No. 1,339,475; May 11; v. 274; p. 229.

Pröstler, Norbert, assignor, by mesne assignments, to The Chemical Foundation, Inc., Berlin, Germany. Method and apparatus for uniting together pieces of brass, aluminium, and similar metals or alloys by electric-resistance heating. No. 1,351,684; Aug. 31; v. 277; p. 927.

Proudfit, William S., Grand Rapids, Mich. Filing device. No. 1,347,658; July 27; v. 276; p. 637.

Proulx, Charles A., Woonsocket, R. I. Spindle. No. 1,341,479; May 25; v. 274; p. 740.

Prouty, Theodore C., Elgin, Ill., assignor, by mesne assignments, to Van Sicklen Speedometer Company, Wilmington, Del. Driving mechanism. No. 1,334,713; Mar. 23; v. 272; p. 637.

Prouty, Theodore C., Hermosa Beach, Calif, assignor, by mesne assignments, to Van Sicklen Speedometer Company, Wilmington, Del. Pump for speedometers. (Reissue.) No. 14,922; July 20; v. 276; p. 547.

Province, Thomas M., Denver, Colo. Bolt-shearing tool. No. 1,354,843; Oct. 5; v. 279; p. 79.

Providence Stock Company. (See Lederer, S. L., and Meyer, assignors.)

Providenti, Joseph G., Brooklyn, N. Y. Talking-machine cabinet. No. 1,345,692; July 6; v. 276; p. 71.

Prudden, Theodore M., Newton, Mass. Ball-bearing spindle. No. 1,341,019; May 25; v. 274; p. 650.

Pruden, Allan K., St. Paul, Minn. Ventilator and ventilating system. No. 1,327,879; Jan. 13; v. 270; p. 248.

Pruden, Allan K., St. Paul, Minn. Winter hog-waterer. No. 1,341,070; May 25; v. 274; p. 660.

Pruden, Allan K., St. Paul, Minn. Winter hog-waterer. No. 1,358,245; Nov. 9; v. 280; p. 262.

Pruden, Harry B., assignor to Powdered Coal Engineering & Equipment Company, Chicago, Ill. Container for comminuted material. No. 1,339,077; May 11; v. 274; p. 324.

Prud'homme, Hippolyte M., assignor to L. F. Sherman, trustee, Boston, Mass. Method of and apparatus for producing stereoscopic motion-picture films. No. 1,350,836; Aug. 24; v. 277; p. 698.

Prudhomme, Robert L., Natchitoches, La. Automobile-tire. No. 1,342,297; June 1; v. 275; p. 134.

Pruett, Ross, Jacksonville, Ala. Garden-tool. No. 1,341,196; May 25; v. 274; p. 684.

Pruessing, Carl. (See Pruessing, Willie and C.)

Pruessing, Willie and C., Syracuse, Nebr. Tool-holder for blow-torches. No. 1,354,065; Sept. 28; v. 278; p. 601.

Pruismann, Edward G., Webster City, Iowa. Transportation-truck. No. 1,340,672; May 18; v. 274; p. 513.

Pruitt, Conrad D., assignor of one-half to R. L. Van Dusen, Los Angeles, Calif. Transmission and change-speed mechanism. No. 1,362,507; Dec. 14; v. 281; p. 350.

Digitized by Google

Pruitt, Orin M., assignor to Indiana Air Pump Company, Indianapolis, Ind. Air-lift separator-pump. (Reissue.) No. 14,937; Aug. 24; v. 277; p. 730.
Pruscha, Joseph A. (See Albin, Isaac, assignor.)
Pruyn, Emily C. (See Pruyn, John E., assignor.)
Pruyn, John E., assignor of one-half to E. C. Pruyn, Philadelphia, Pa. Ball-bearing. No. 1,340,250; May 18; v. 274; p. 433.
Pryce, Edmund H., New York, N. Y., assignor to General Heating Corporation of America. Liquid-fuel heater. No. 1,359,917; Nov. 23; v. 280; p. 682.
Pryde, Irving A., Richmond, Va. Closure for containers. No. 1,343,474; June 15; v. 275; p. 480.
Pryor, Clarence E. (See Todenwarth, Walter W., assignor.)
Psilander, Charles A. (See Stothoff, W. S., and Psilander.)
Psilander, Charles A., assignor to William Wharton, Jr. & Co., Easton, Pa. Hard-center crossing-frog. No. 1,327,842; Jan. 13; v. 270; p. 241.
Public Service Cup Company. (See Errett, Charles, assignor.)
Puc, Vojtech, Prague-Vinohrady, Bohemia. Separable fastener. No. 1,361,096; Dec. 7; v. 281; p. 23.
Puchazckevski, Vladyslaw, Montreal, Quebec, Canada. Pot-lifter. No. 1,342,758; June 8; v. 275; p. 277.
Puckett, Robert L., Falmouth, Ky. Transplanting-machine. No. 1,333,339; Mar. 9; v. 272; p. 272.
Puckle, Basil W. B., Twyford, England. Variable-speed gear. No. 1,329,476; Feb. 3; v. 271; p. 25.
Puddicombe, Albert B., Canton, China. Repeating attachment for sound-reproducers. No. 1,361,405; Dec. 7; v. 281; p. 85.
Pudlin, David, New York, N. Y. Eye for dolls. No. 1,330,718; Feb. 10; v. 271; p. 288.
Puening, Franz, Evanston, Ill. Method of and apparatus for cracking hydrocarbons. No. 1,358,174; Nov. 9; v. 280; p. 248.
Puff, Henry, St. Cloud, Minn. Camping outfit. No. 1,332,635; Mar. 2; v. 272; p. 88.
Puff, Henry, St. Cloud, Minn. Vehicle-body and portable extension therefor. No. 1,344,717; June 29; v. 275; p. 855.
Puffer, Alfred E. (See Mealey, R. C., and Puffer.)
Pugh, Harcourt W., Ewell, and C. H. Vidal, Croydon, England. Device for testing the pitch of screws. No. 1,332,065; Feb. 24; v. 271; p. 630.
Pugh, Morton E., Fulton, Mo. Dipper for excavators. No. 1,339,606; May 11; v. 274; p. 254.
Pugh, Morton E., Chicago, Ill. Excavating-dipper. No. 1,342,759; June 8; v. 275; p. 277.
Pugniet, Paul, Paris, France. Stocking-suspender. No. 1,348,444; Aug. 3; v. 277; p. 62.
Pugsley, William E., Grand Rapids, Mich. Amplifier for sound-reproducing machines. No. 1,360,577; Nov. 30; v. 280; p. 880.
Puhl, William H., Zion, Ill. Pan cleaning and greasing machine. No. 1,363,013; Dec. 21; v. 281; p. 500.
Pukell, Joseph M., Duluth, Minn. Pipe-flange wrench. No. 1,350,519; Aug. 24; v. 277; p. 637.
Pukerud, Thomas S., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Controller mechanism. No. 1,330,610; Feb. 10; v. 271; p. 267.
Pukerud, Thomas S., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Controller. No. 1,336,582; Apr. 13; v. 273; p. 225.
Pukerud, Thomas S., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,339,906; May 11; v. 274; p. 311.
Pukerud, Thomas S., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Trolley. No. 1,352,474; Sept. 14; v. 278; p. 182.
Pukerud, Thomas S., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Controller. No. 1,357,249; Nov. 2; v. 280; p. 10.
Pukt, Albert J., Boston, Mass. Curtain and shade frame. No. 1,337,370; Apr. 20; v. 273; p. 450.
Pullen, Ovid, Harmony, N. C. Cuff-button. No. 1,339,713; May 11; v. 274; p. 275.
Pulliam, Oswald S., New York, N. Y. Steering-gear attachment. No. 1,328,762; Jan. 20; v. 270; p. 541.
Pulliam, Oswald S., New York, N. Y. Steering-gear. No. 1,355,570; Oct. 12; v. 279; p. 274.
Pullig, C. W. (See Ingraham, Jerome H., assignor.)
Pullman Company, The. (See Ward, Frank, assignor.)
Pullos, Peter G., Salt Lake City, Utah. Anti-rail-creeping and rail-fastening device. No. 1,362,508; Dec. 14; v. 281; p. 350.
Pulsifer, Harrie B., Butte, Mont., assignor to Schaar & Company, Chicago, Ill. Analytical apparatus. No. 1,340,346; May 18; v. 274; p. 451.
Puntolillo, Gaetano F., New York, N. Y. Banjo. No. 1,345,104; June 29; v. 275; p. 929.
Punzelt, Edward E., assignor to The Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa. Food cutter. No. 1,337,955; Apr. 20; v. 273; p. 562.
Punin, Michael I., Norfolk, Conn., and E. H. Armstrong, Yonkers, N. Y. Electric-wave transmission. No. 1,334,165; Mar. 16; v. 272; p. 489.
Punin, Michael I., Norfolk, Conn., and E. H. Armstrong, Yonkers, N. Y. Antenna with distributed positive resistance. No. 1,336,878; Apr. 6; v. 273; p. 127.
Purcell, Arthur N., Corona, N. Y. Automatic garage-jack. No. 1,356,011; Oct. 19; v. 279; p. 399.
Purcell, Francis A., Brooklyn, N. Y. Electric signal apparatus. No. 1,354,337; Sept. 28; v. 278; p. 656.
Purcell, John, Topeka, Kans. Locomotive-cab seat. No. 1,356,558; Oct. 26; v. 279; p. 554.
Purcell, John G., New Orleans, La. Breast-adjuster for preparation of dead bodies. No. 1,354,684; Oct. 5; v. 279; p. 48.
Purcell, Patrick F., Seattle, Wash. Office-desk. No. 1,330,343; Feb. 10; v. 271; p. 218.
Purcell, William F., Morristown, N. J. Safety device. No. 1,338,867; May 4; v. 274; p. 40.
Purdy, Fred P., Sharon, Mass. Bowling game. No. 1,329,254; Jan. 27; v. 270; p. 573.
Purdy, James L., Union, Wash. Saw-filing device. No. 1,342,462; June 8; v. 275; p. 219.
Purdy, Ross C., Worcester, Mass., assignor to Norton Company. Kiln. No. 1,332,471; Mar. 2; v. 272; p. 57.
Purdy, Ross C., and M. F. Beecher, assignors to Norton Company, Worcester, Mass. Light-weight refractory brick. No. 1,345,632; July 6; v. 276; p. 59.
Pure Carbonic Company. (See Hoff, John A, assignor.)
Pure Coal Briquettes Limited. (See Sutcliffe, Edgar R., assignor.)
Puring, John, New York, N. Y. Mathematical instrument. No. 1,346,250; July 13; v. 276; p. 243.
Purinton, Forrest G., assignor to The Patent Button Company, Waterbury, Conn. Electroplating apparatus. No. 1,359,273; Nov. 16; v. 280; p. 508.
Purman, Thomas R., Washington, Pa. Transmitter. No. 1,332,951; Mar. 9; v. 272; p. 200.
Purnell, Walter H., and J. A. Butterworth, Loughborough, England, assignors to Herbert Morris, Limited. Portable jib-crane. No. 1,345,881; July 6; v. 276; p. 108.
Purple, Harry J., Newton, assignor to United Drug Company, Boston, Mass. Shaving-stick holder. No. 1,338,156; Apr. 27; v. 273; p. 669.
Purvis, Charley A., Kansas City, Mo. Door-closing device. No. 1,358,573; Nov. 9; v. 280; p. 328.
Purvis, George, Port Huron, Mich. Blow-off for boilers. No. 1,351,586; Aug. 31; v. 277; p. 908.
Purvis, George H. (See Martin, Richard H., assignor.)
Putnam, Burleigh, Pasadena, Calif., assignor to J. T. Thompson, Washington, D. C. Machine-gun. No. 1,334,052; Mar. 16; v. 272; p. 468.
Putnam, Charlotte M., Falls City, Nebr. Reversible hand-covering. No. 1,351,685; Aug. 31; v. 277; p. 927.
Putnam, F. A., Manufacturing Company. (See Putnam, F. A., and Reyoum, assignors.)
Putnam, Fred A. and O. C. Reyoum, assignors to F. A. Putnam Manufacturing Company, Keene, N. H. Traction-chain for caterpillar-tractors and the like. No. 1,341,761; June 1; v. 275; p. 29.
Putnam, Henry S., *et al.* (See Brinckerhoff, Francis M., assignor.)
Putnam, James K., Tulsa, Okla. Pump. No. 1,343,157; June 8; v. 275; p. 356.
Putnam Knitting Company. (See Cummings, Edward L., assignor.)
Putnam, Ralph W., Waterbury, Vt. Polishing-wheel. No. 1,348,050; July 27; v. 276; p. 716.
Putnam, Salmon W., 3d, assignor to A. H. Ingle, Rochester, N. Y. Tailstock-clamping mechanism. No. 1,327,356; Jan. 6; v. 270; p. 88.
Putnam, Salmon W., 3d, assignor to A. H. Ingle, Rochester, N. Y. Journal-bushing. No. 1,328,195; Jan. 13; v. 270; p. 308.
Putnam, Salmon W., 3d, assignor to A. H. Ingle, Rochester, N. Y. Tire-lathe. No. 1,328,763; Jan. 20; v. 270; p. 451.
Putnam, William H. (See Stone, Charles M., assignor.)
Putney, Albert N., Syracuse, N. Y. Fish-stringer. No. 1,341,722; June 1; v. 275; p. 21.
Putt, Harlie O., Elkhart, Ind. Rotary circuit-interrupter. No. 1,341,020; May 25; v. 274; p. 650.
Pyburn, George, Airdrie, Scotland. Manufacture of wire rope. No. 1,341,003; May 25; v. 274; p. 647.
Pye, David W., Red Bank, N. J. Composite heat-insulating sheet. No. 1,345,693; July 6; v. 276; p. 72.
Pye, Emmeline, Toorak, Victoria, Australia, assignor to Educational Supply Association, Melbourne, Australia. Combination of devices for teaching infants. No. 1,329,850; Feb. 3; v. 271; p. 95.
Pye, Robert E., assignor to American Chain Company, Incorporated, Bridgeport, Conn. Chain-tire grip. No. 1,339,978; May 11; v. 274; p. 324.
Pyle, George S., Oakland, assignor of one-half to E. J. Clinton, Berkeley, Calif. Seat-finder. No. 1,332,145; Feb. 24; v. 271; p. 644.
Pyle, John C., Salina, Kans. Spark-intensifier for explosive-engines. No. 1,361,288; Dec. 7; v. 281; p. 61.
Pyle, Lewis M., Bryn Mawr, Pa., assignor to Niles-Bement-Pond Co., New York, N. Y. Clutch mechanism. No. 1,345,633; July 6; v. 276; p. 59.
Pym, Charles F., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Gripper mechanism. No. 1,344,316; June 22; v. 275; p. 712.
Pyrolectric Instrument Co. (See Porter, Harry F., assignor.)

Digitized by Google

Alphabetical list of patentees—Continued.

Pys, Paul, assignor of one-half to W. Brzczowski, Detroit, Mich. Automatic spring-fan. No. 1,354,916; Oct. 5; v. 279; p. 94.
Pys, Paul, Detroit, Mich. Curtain and shade holder. No. 1,354,917; Oct. 5; v 279; p. 94.
Pytlewski, Steve, Minneapolis, Minn. Reinforced tread for spring-wheels. No. 1,327,843; Jan. 13; v. 270; p. 241.

Q. R. S. Music Company, The. (See Clark, E. G., assignor.)
Quackenboss, Leonard G., Chicago, Ill. Display-holder. No. 1,343,681; June 15; v. 275; p. 522.
Quackenboss, Leonard G., Chicago, Ill. Display-holder. No. 1,341,822; June 1; v. 275; p. 41.
Quackenbush, E. F. (See Turner, Frank M., assignor.)
Quade, Frank H., Jr., assignor to Lisenby Manufacturing Company, Fresno, Calif. Electric snap-switch. No. 1,328,338; Jan. 20; v. 270; p. 371.
Quaglia, Alberto. (See Lopez, G. M., and Quaglia.)
Quaill, Francis H. (See Knudsen, Jacob B., assignor.)
Quaker Lace Company. (See Waterfield, James, assignor.)
Quaker Oats Company. (See Miner, Carl S., assignor.)
Quality Brands Company, The. (See Kost, S. A., and Yaeger, assignors.)
Quarrier, Hullihen D., assignor to Hazel-Atlas Glass Company, Wheeling, W. Va. Closure for jars and the like. No. 1,341,382; May 25; v. 274; p. 720.
Quass, Ralph L. (See Williams and Quass.)
Quast, Bruno, Cöln-Deutz, Germany. Block and bar shears. No. 1,349,915; Aug. 17; v. 277; p. 472.
Quattlebaum, James D. (See Shealy, Leland A., assignor.)
Queen, Ralph L., Millville, N. J. Phonograph-record cabinet. No. 1,331,024; Feb. 17; v. 271; p. 416.
Quehl, Herman H., assignor to White-Quehl Manufacturing Company, Cincinnati, Ohio. Laundry-tag. No. 1,363,349; Dec. 28; v. 281; p. 606.
Quesenbery, Thomas W. (See Childress, Patrick H., assignor.)
Quick Action Ignition Company. (See Oglesby, Richard A., assignor.)
Quick, Claude J., Pulaski, N. Y. Leaf-spring. No 1,348,446; Aug. 3; v. 277; p. 62.
Quick, Elmer, assignor of one-half to F. G. Watts, West Tulsa, Okla. Collapsible basin. No. 1,334,260; Mar. 16; v. 272; p. 505.
Quick, Elroy I., *et al.* (See Erik, Emil, assignor.)
Quigley Furnace Specialties Co. (See Kimber, Harry A., assignor.)
Quigley Furnace Specialties Co. (See Renkin, William O., assignor.)
Quijano, Ramon, San Antonio, Tex. Fiber-cleaning device. No. 1,336,046; Apr. 6; v. 273; p. 65.
Quilty, John J. (See Bishop, William J., assignor.)
Quimby, Walker S., and F. W. Robinson, assignors to Hanovia Chemical & Manufacturing Company, Newark, N. J. Building up objects of quartz glass. No. 1,330,611; Feb. 10; v. 271; p. 268.
Quin, A. F., Humber Bay, and C. Lacey, Toronto, Ontario, Canada. Composition of matter for fire-bricks and refractory linings. No. 1,355,689; Oct. 12; v. 279; p. 296.
Quin, Frank, Philadelphia, Pa. Sanctuary-lamp. No. 1,339,788; May 11; v. 274; p. 289.
Quinan, Kenneth B., Somerset West, Cape Province, South Africa. Production of sulfuric acid. No. 1,348,736; Aug. 3; v. 277; p. 117.
Quinan, Kenneth B., Somerset West, Cape Province, South Africa. Production of nitric acid. No. 1,355,357; Oct. 12; v. 279; p. 233.
Quinby, George F., Dorchester, Mass. Innersole-applying device. No. 1,352,145; Sept. 7; v. 278; p. 83.
Quinlan, Thomas, Milwaukee, Wis. School desk and seat. No. 1,345,105; June 29; v. 275; p. 929.
Quinn, Gilbert F., Revere, Mass. Rubber heel. No. 1,341,383; May 25; v. 274; p. 720.
Quinn, Hugh, Brooklyn, N. Y. Permutation-valve. No. 1,357,081; Oct. 26; v. 279; p. 657.
Quinn, James J., Chester, Pa. Milk-bottle lock. No. 1,360,578; Nov. 30; v. 280; p. 880.
Quinn, John N., Cincinnati, Ohio. Door-cabinet. No. 1,359,742; Nov. 23; v. 280; p. 647.
Quinn, Martin J., Toronto, Ontario, Canada. Dust-collecting receptacle for vacuum-cleaners. No. 1,363,753; Dec. 28; v. 281; p. 684.
Quinn, Michael R., Kent, Ohio. Handkerchief. No. 1,327,062; Jan. 6; v. 270; p. 35.
Quinn, Patrick H., Somerville, Mass. Container. No. 1,351,187; Aug. 31; v. 277; p. 828.
Quinn, William R., Spokane, Wash. Oil-burner. No. 1,331,376; Feb. 17; v. 271; p. 480.
Quintal, Domina, assignor of one-half to R. Déry, Montreal, Quebec, Canada. Railway-switch. No. 1,355,262; Oct. 12; v. 279; p. 214.
Quintin, Clarence E., assignor to L. W. Riddle, Glen Riddle, Pa. Oil-cup. No. 1,349,098; Aug. 10; v. 277; p. 239.
Quintin, John C., South Pasadena, assignor, by mesne assignments, to Dustin-Roman Auto Top Company, Los Angeles, Calif. Wind-deflector. No. 1,364,053; Dec. 28; v. 281; p. 741.
Quirk, Michael F. (See McLeod and Quirk.)
Qvarnstrom, Lawrence J., Portland, Oreg. Tilling-machine. No. 1,362,895; Dec. 21; v. 281; p. 477.
R. & C. Engineering Company, The. (See Reed, Chase C., assignor.)
R & G Company. (See Anderson, Edward L., assignor.)
R & G Company. (See Anderson, Edward L. and L. A., assignors.)
Raab, John W., and R. Edwards, Maquoketa, Iowa. Automobile-ventilator. No. 1,346,383; July 13; v. 276; p. 270.
Raabe, Henry E. A., Jersey City, N. J. Vaporizing device for crude-oil explosive-engines. No. 1,329,797; Feb. 3; v. 271; p. 84.
Raabe, Otto L., Jersey City, N. J., assignor to R. Hoe and Co., New York, N. Y. Web-printing machine. No. 1,343,931; June 22; v. 275; p. 637.
Raabe, Otto L., Jersey City, N. J., assignor to R. Hoe and Co., New York, N. Y. Driving mechanism for multicouple printing-machines. No. 1,356,171; Oct. 19; v. 279; p. 432.
Raba, Ernest, Valley, Okla. Combined gasket and oil-gasifier. No. 1,329,348; Jan. 27; v. 270; p. 588.
Rabbens, Georgio. (See Gussi, Arnaldo, assignor.)
Rabbeth, Francis J., Redlands, Calif. Coffee-pot. No. 1,343,582; June 15; v. 275; p. 502.
Rabbidge, Parnell, Neutral Bay, New South Wales, Australia. Magneto-electric transformer. No. 1,341,340; May 25; v. 274; p. 712.
Rabbitt, James H., Mamaroneck, N. Y. Direction-indicator. No. 1,340,081; May 11; v. 274; p. 343.
Rabe, Paul B., Chicago, Ill., assignor to O. K. Giant Battery Co., Gary, Ind. Grid-plate for storage batteries. No. 1,328,392; Jan. 20; v. 270; p. 382.
Rabe, Paul B., Chicago, Ill., assignor to O. K. Giant Battery Co., Gary, Ind. Storage battery. No. 1,328,393; Jan. 20; v. 270; p. 382.
Rabe, Paul B., Chicago, Ill., assignor to O. K. Giant Battery Co., Gary, Ind. Storage battery. No. 1,328,394; Jan. 20; v. 270; p. 382.
Rabe, Paul B., Chicago, Ill., assignor to O. K. Giant Battery Co., Gary, Ind. Battery-grid. No. 1,347,873; July 27; v. 276; p. 681.
Rabenalt, Gustav H., Lancaster, N. Y. assignor to Gould Storage Battery Company. Storage-battery separator. No. 1,363,754; Dec. 28; v. 281; p. 684.
Raby, George F. (See Raby, Richard, assignor.)
Raby, Richard, Loudonville, Ohio. Drawing-board. No. 1,330,549; Feb. 10; v. 271; p. 256.
Raby, Richard, assignor of one-half to G. F. Raby, Loudonville, Ohio. Spacing attachment for T-squares. No. 1,359,743; Nov. 23; v. 280; p. 647.
Raby, Richard, assignor of one-half to G. F. Raby, Loudonville, Ohio. Ironing-board. No. 1,359,744; Nov. 23; v. 280; p. 648.
Raccio, Pasquale, assignor to The Racolock Company, New Haven, Conn. Latch. No. 1,351,686; Aug. 31; v. 277; p. 927.
Racer, Roscoe C., Akron, Ohio. Wheel. No. 1,354,844; Oct. 5; v. 279; p. 79.
Racicot, Arthur H., Webster, Mass. Shoemaker's tool. No. 1,363,014; Dec. 21; v. 281; p. 500.
Racine Tool & Machine Co. (See Reinhardt, W. C., and Banker, assignors.)
Rackstraw, Albert V., Bedford, Ohio. Endless link-chain track. No. 1,331,080; Feb. 17; v. 271; p. 426.
Racolock Company, The. (See Raccio, Pasquale, assignor.)
Racosky, John, Jerome, Pa. Cut-out switch for mine-trolleys. No. 1,343,475; June 15; v. 275; p. 480.
Racow, Joseph, New Haven, Conn. Combination-lock for the steering-posts of automobiles. No. 1,327,406; Jan. 6; v. 270; p. 97.
Radabaugh, Noah B., assignor to The Phoenix Hardening Equipment Company, Cleveland, Ohio. Making carbonizing material. No. 1,338,841; May 4; v. 274; p. 35.
Radabaugh, Roy R., Long Beach, assignor to The Monoflyer Company, Los Angeles, Calif. Captive monoflyer. No. 1,358,246; Nov. 9; v. 280; p. 262.
Radakovich, Michael, Milwaukee, Wis. Projectile. No. 1,343,747; June 15; v. 275; p. 536.
Radcliffe, John T., Brooklyn, N. Y. Adjustable windshield protector. No. 1,332,753; Mar. 2; v. 272; p. 111.
Radcliffe, William J., Williamsfield, Ill. Rim-tool. No. 1,357,822; Nov. 2; v. 280; p. 119.
Raddatz, A. J., *et al.* (See Gauger, Frank A., assignor.)
Raddatz, Richard, Milwaukee, Wis., assignor, by mesne assignments, to Lederer Machine Company. Banding-machine. No. 1,333,340; Mar. 9; v. 272; p. 272.
Radeleff, Charles T., Manning, Iowa. Dumping-truck. No. 1,330,655; Feb. 10; v. 271; p. 276.
Radell, Frederick W., Glenside, Pa. Electric storage battery. No. 1,347,588; July 27; v. 276; p. 624.
Rader, Anthony C., Alta, Iowa. Fountain-pen. No. 1,343,521; June 15; v. 275; p. 490.
Rader, Anthony C., Alta, Iowa. Feeder for fountain-pens. No. 1,359,918; Nov. 23; v. 280; p. 682.
Rader John C., Cando, N. D. Shocking attachment for harvesters. No. 1,360,683; Nov. 30; v. 280; p. 901.

Digitized by Google

Radiguer, Charles, Paris, France, assignor to Société Anonyme Des Etablissements Delaunay Belleville, St.-Denis, Seine, France. Automobile torpedo. No. 1,334,401; Mar. 23; v. 272; p. 579.
Radimak, Steven, Newark, N. J. Brushing-machine. No. 1,352,527; Sept. 14; v. 278; p. 192.
Radimak, Steven, New York, N. Y. Doll-eye-painting machine. No. 1,352,528; Sept. 14; v. 278; p. 192.
Radimak, Steven, Newark, N. J. Doll-molding machine. No. 1,359,102; Nov. 16; v. 280; p. 476.
Radio Corporation of America. (See Ewen, Harry A., assignor.)
Radio Corporation of America (See Frankis, Ernest E., assignor.)
Radio Corporation of America. (See Franklin, Charles S., assignor.)
Radio Corporation of America. (See Round, Henry J., assignor.)
Radio Corporation of America. (See Weagant, R. A., and Waterman, assignors.)
Radio Corporation of America. (See Weagant, Roy A., assignor.)
Radisson, Augustin, and P. Berthon; said Raddison assignor to Société de Stéarinerie et Savonnerie de Lyon, Lyon, France. Apparatus for producing catalytic agents for reduction or hydrogenation purposes. No. 1,330,003; Feb. 3; v. 271; p. 123.
Radisson, Augustin, and P. Berthon; said Radisson assignor to Societe de Stearinerie et Savonnerie de Lyon, Lyon, France. Method of and apparatus for hydrogenating fatty acids and their glycerids. No. 1,353,419; Sept. 21; v. 278; p. 428.
Radium Luminous Material Corporation. (See White, Charles E., assignor.)
Radium Luminous Material Corporation. (See Willis, Paul M., assignor.)
Radtke, Albert A., Chicago, Ill. Method of and means for establishing electrical circuits. No. 1,350,334; Aug. 24; v. 277; p. 600.
Radtke, Milton L., Detroit, Mich. Adjustable clamp. No. 1,351,966; Sept. 7; v. 278; p. 50.
Radzinsky, Harry, New York, N. Y. Hair-curler. No. 1,338,748; May 4; v. 274; p. 19.
Rae, Frank B., Cleveland, Ohio. Power-transmission device. No. 1,330,393; Feb. 10; v. 271; p. 227.
Rae, Frank B., Cleveland, Ohio. Electrical controlling system. No. 1,356,012; Oct. 19; v. 279; p. 399.
Raeburn, William, assignor to The Mattatuck Manufacturing Company, Waterbury, Conn. Curtain-fastener. No. 1,357,186; Oct. 26; v. 279; p. 676.
Raff, Ernest G., assignor to Stiles-Gilliland Manufacturing Company, St. Louis, Mo. Implement for smoothing metal. No. 1,344,960; June 29; v. 275; p. 901.
Raffel, Ferdinand A., assignor to The Sands Manufacturing Company, Cleveland, Ohio. Hydrocarbon-lamp. No. 1,337,620; Apr. 20; v. 273; p. 497.
Raffelson, Isaac, New York, N. Y. Tire-protector. No. 1,336,757; Apr. 13; v. 273; p. 259.
Rafferty, James J. (See Alexander, G., and Rafferty.)
Rafn, Robert, Moss, Norway. Conveyer. No. 1,344,246; June 22; v. 275; p. 697.
Ragan, Frederick H., assignor to Gemmer Manufacturing Company, Detroit, Mich. Steering-gear. No. 1,344,005; June 22; v. 275; p. 651.
Ragatz, Thomas H., Prairie du Sac, Wis. Dental tray. No. 1,360,146; Nov. 23; v. 280; p. 728.
Raggio, Dante A., Chicago, Ill. Apparatus for intercity exchange. No. 1,332,411; Mar. 2; v. 272; p. 46.
Raginia, Wladyslow, Ludington, Mich. Shoe-cleaning machine. No. 1,335,888; Mar. 30; v. 272; p. 825.
Ragland, Herbert F. (See Verret, Nicholas J., assignor.)
Ragle, Henry A., Maryville, Tenn. Indicating device for moving pictures. No. 1,332,869; Mar. 2; v. 272; p. 132.
Ragon, Elmer E., Gary, Ind. Container. No. 1,330,344; Feb. 10; v. 271; p. 218.
Ragona, Vincent. (See Cory, S. C., and Ragona.)
Ragona, Vincent, assignor, by mesne assignments, to Cary Manufacturing Company, Brooklyn, N. Y. Band-stretcher. No. 1,343,336; June 15; v. 275; p. 454.
Ragsdale, Charles R., St. Louis, Mo. Self-raising lid for ice-cream cabinets. No. 1,341,518; May 25; v. 274; p. 746.
Ragsdale, Earl J. W., U. S. Army, assignor to United States Ordnance Company, Washington, D. C. Grenade. No. 1,358,652; Nov. 9; v. 280; p. 344.
Rahm, Robert C., Wyomissing, Pa. Braiding-machine. No. 1,337,269; Apr. 20; v. 273; p. 431.
Rahm, Robert C., Wyomissing, Pa. Drive and stop mechanism for braiding-machines. No. 1,337,270; Apr. 20; v. 273; p. 431.
Rahn, George C., Erie, Pa. Metal-melting furnace. No. 1,333,629; Mar. 16; v. 272; p. 388.
Rahn, Paul E., Chicago, Ill. Theater drop-curtain. No. 1,358,111; Nov. 9; v. 280; p. 236.
Rahne, Rudolf G. N., Gottenborg, Sweden. Finger-board for violins. No. 1,348,894; Aug. 10; v. 277; p. 200.
Rahr, Chester E. (See Heppes, O. A., and Rahr.)
Rahr, Chester E., Brookline, assignor to The Flintkote Company, Boston, Mass. Roofing element. No. 1,340,347; May 18; v. 274; p. 451.
Rahr, Chester E., Brookline, assignor to The Flintkote Company, Boston, Mass. Roof-shingle. No. 1,340,348; May 18; v. 274; p. 451.
Raia, Charles S., Garfield, N. J. Ice-cream cutter. No. 1,343,932; June 22; v. 275; p. 637.
Raidt, Frank, Quincy, Ill. Grapple device. No. 1,332,284; Mar. 2; v. 272; p. 11.
Rail Joint Company, The. (See Boyce, William S., assignor.)
Rail Joint Company, The. (See Braine, Bancroft G., assignor.)
Rail Joint Company, The. (See Disbrow, Clarkson A., assignor.)
Rail Joint Company, The. (See McCaulley, Charles G., assignor.)
Rail Joint Company, The. (See Whiteman, George W., assignor.)
Rail, Lee, and W. Hebern; said Hebern assignor of one-fourth to E. J. McLaughlin and one-fourth to J. F. Sullivan, San Francisco, Calif. Steering-wheel mounting. No. 1,350,841; Aug. 24; v. 277; p. 699.
Rail, Napoleon, Lowell, Mass. Automatic cutting-off device for thread-winders. No. 1,328,196; Jan. 13; v. 270; p. 306.
Railing, Max J. (See Hill, Reginald J. H., assignor.)
Railway Automatic Safety Appliance Company, The. (See Stafford, Earl C., assignor.)
Railway and Industrial Engineering Company. (See Koppitz, Carl G., assignor.)
Railway & Mine Supply Company. (See Binkley, Leroy G., assignor.)
Railway Roller Bearing Company. (See Vandegrift, James N., assignor.)
Railway Signal Company, The. (See Roberts, Walter S., assignor.)
Railway Specialties Company. (See Morse, Mark S., assignor.)
Railway Tie Supply Company. (See Hyle, Jacob A., assignor.)
Railway Utility Company. (See Gray, David E., assignor.)
Railway's Accessories Company. (See Wightman, Merle J., assignor.)
Rainey, Boyd E., *et al.* (See Du Pont, Benjamin F., assignor.)
Rainey, Paul M., West Hoboken, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,341,998; June 1; v. 275; p. 75.
Rainey, Paul M., assignor to Western Electric Company, Incorporated, New York, N. Y. Printing mechanism. No. 1,362,639; Dec. 21; v. 281; p. 427.
Rainey, William D., Lockesburg, Ark. Cotton-chopper. No. 1,354,131; Sept. 28; v. 278; p. 615.
Rains, Johnny, Boas, Ala. Saw cleaning and oiling device. No. 1,338,157; Apr. 27; v. 273; p. 669.
Raison, Alfred, and T. A. Burgess, Johannesburg, Transvaal, South Africa. Piston-chuck. No. 1,361,773; Dec. 7; v. 281; p. 159.
Rakowski, Wladislaus, South Bethlehem, Pa. Curtain and portière hanger. No. 1,336,047; Apr. 6; v. 273; p. 65.
Ralco Manufacturing Co. (See Lofgren, John, assignor.)
Raleigh, Charles, and W. V. D. Kelley, Brooklyn, N. Y., assignors, by mesne assignments, to Prizma Incorporated. Producing colored photographic images. No. 1,333,730; Mar. 16; v. 272; p. 407.
Raley, John F., and J. D. Mitchell, Meridian, Miss. Locking mechanism for car-doors. No. 1,335,192; Mar. 30; v. 272; p. 788.
Raley, William H., Claremore, Okla. Gate-hanger. No. 1,342,227; June 1; v. 275; p. 121.
Raliff, Adolph A., Jr. (See Hart, Richard, assignor.)
Ralko Products Company, The. (See Kopf, Melrose G., assignor.)
Ralls, George E. D., Birmingham, England. Clutch and transmission mechanism for motor road and other vehicles. No. 1,338,252; Apr. 27; v. 273; p. 687.
Ralph, Elmer S., Maywood, Ill. Safety-pin. No. 1,360,794; Nov. 30; v. 280; p. 923.
Ralph, Josephine, Maywood, Ill. Hair-curler. No. 1,357,516; Nov. 2; v. 280; p. 59.
Ralston, Jasper N., Fitzgerald, Ga. Steam-boiler ash-pan. No. 1,348,737; Aug. 3; v. 277; p. 117.
Ralston, John, Houston, Tex. Valve-grinder. No. 1,346,420; July 13; v. 276; p. 277.
Ralston Steel Car Company, The. (See Cowgill, Frank M., assignor.)
Ralzen, Charles S., Brooklyn, N. Y. Paper doll. No. 1,357,421; Nov. 2; v. 280; p. 42.
Ramage, John M., Uniontown, Pa. Cushion-tire. No. 1,351,536; Aug. 31; v. 277; p. 898.
Ramauge, Adalberto, Buenos Aires, Argentina. Parachute comprising pneumatic means. No. 1,328,848; Jan. 27; v. 270; p. 496.
Ramén, Arthur, Helsingborg, Sweden. Movable irrigating apparatus. No. 1,346,843; July 20; v. 276; p. 419.
Ramén, Arthur, Helsingborg, Sweden. Mechanical furnace. No. 1,353,268; Sept. 21, v. 278; p. 398.
Ramm, George F., Del Monte, Calif. Attachment for ironing-machines. No. 1,351,688; Aug. 31; v. 277; p. 928.
Ramm, George F., Del Monte, Calif. Rack. No. 1,345,954; July 6; v. 276; p. 124.
Ramos, Rafaél and A. de Cardenas, Aguada de Pasajeros, Cuba. Device for connecting ox-yokes to cart-poles. No. 1,344,354; June 22; v. 275; p. 719.

Digitized by Google

Ramos, Rafaël, and A. de Cardenas, Aguada de Pasajeros, Santa Clara, Cuba. Plowing-machine. No. 1,347,589; July 27; v. 276; p. 624.

Ramp Building Corporation. (See d'Humy, Fernand E., assignor.)

Rampp, Frank, assignor to National Carbon Company, Inc., New York, N. Y. Portable electric light. No. 1,350,837; Aug. 24; v. 277; p. 698.

Ramsaier, William J., New York, N. Y. Inking-roller carriage for printing-presses. No. 1,334,964; Mar. 30; v. 272; p. 745.

Ramsay, Arthur D., assignor of one-half to H. J. Rogers, Lowell, Mass. Bobbin-holder for roving-frames. No. 1,335,193; Mar. 30; v. 272; p. 789.

Ramsay, Erskine, Birmingham, Ala. Tipple. No. 1,358,175; Nov. 9; v. 280; p. 248.

Ramsay, Walter L., Indianapolis, Ind. Cake-hanger. No. 1,330,719; Feb. 10; v. 271; p. 288.

Ramsburg, George S., Somersworth, N. H. Foldable receptacle. No. 1,335,701; Mar. 30; v. 272; p. 884.

Ramsburgh, W. D. (See Martin, Frank, assignor.)

Ramsey, Edward J., Brooklyn, N. Y. Shoe. No. 1,333,995; Mar. 16; v. 272; p. 457.

Ramsey, George, assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y. Side-seal closure. No. 1,327,963; Jan. 13; v. 270; p. 263.

Ramsey, Grover C., Gastonia, N. C. Housing for sprinkler-heads. No. 1,331,277; Feb. 17; v. 271; p. 461.

Ramsey, Joseph A., assignor of one-half to E. L. Stone, Beatrice, Nebr. Mud-lug for automobile-wheels. No. 1,357,300; Nov. 2; v. 280; p. 19.

Ramsey, Joseph H., Albany, N. Y. Film-spool for photographic cameras. No. 1,335,917; Apr. 6; v. 273; p. 40.

Ramsey, Joseph H., Albany, N. Y. Pocket game-board. No. 1,343,984; June 22; v. 275; p. 647.

Ramsome Concrete Machinery Company. (See Eichelberger, L. H., and Walter, assignors.)

Ramstetter, Frank, and W. J. Britt, assignors to Simmons Hardware Company, St. Louis, Mo. Polishing-machine. No. 1,356,737; Oct. 26; v. 279; p. 589.

Ranc, Frank, Jr., and W. E. Christie, Cedar Rapids, Iowa. Screen or storm-sash fastener. No. 1,334,922; Mar. 23; v. 272; p. 679.

Rand, David L., Ayr, N. D. Book-holder. No. 1,330,004; Feb. 3; v. 271; p. 123.

Rand, Frederick B., Sanford, Me. Lug-strap holder. No. 1,327,964; Jan. 13; v. 270; p. 264.

Rand, Harry M., Westville, N. J. Valve-grinder. No. 1,328,197; Jan. 13; v. 270; p. 308.

Rand, James H., North Tonawanda, N. Y. Card-index. No. 1,338,789; May 4; v. 274; p. 26.

Rand, James H., North Tonawanda, N. Y. Index. No. 1,340,251; May 18; v. 274; p. 433.

Rand, James H., North Tonawanda, N. Y. Filing device. No. 1,362,960; Dec. 21; v. 281; p. 489.

Rand, James H., North Tonawanda, N. Y. Index. No. 1,362,961; Dec. 21; v. 281; p. 489.

Rand, James H., Jr., North Tonawanda, N. Y. Leaf structure for index devices. No. 1,355,062; Oct. 5; v 279; p. 122.

Rand, James H., Jr., assignor to Zenith Systems Corporation, Tonawanda, N. Y. File, index, or the like. No. 1,358,463; Nov. 9; v. 280; p. 307.

Randa, James F., Muncie, Ind. Tool-holder. No. 1,359,103; Nov. 16; v. 280; p. 476.

Randall, Annie L., executrix. (See Randall, Horatio C.)

Randall-Faichney Company, The. (See Faichney, George H., assignor.)

Randall & Fries. (See Fries, Edward A., assignor.)

Randall, Herman P. (See Shannon, S. Q., and Randall.)

Randall, Herman P. (See Spurr and Randall.)

Randall, Horatio C., deceased, San Francisco, Calif.; A. L. Randall, executrix. Elevator-control system. No. 1,347,711; July 27; v. 276; p. 648.

Randall, James R. (See Townsend, Fred, assignor.)

Randall, James R., Bonnie, Ill. Combination hoe, extension-marker, and weeder. No. 1,339,222; May 4; v. 274; p. 106.

Randall, James W. H., Western Port, Md., assignor to Industrial Chemical Company, New York, N. Y. Production of acetates, &c. No. 1,338,040; Apr. 27; v. 273; p. 647.

Randall, John E., Cleveland, Ohio, and L. T. Reser, Baldwin, Kans., assignors to General Electric Company. Electric lamp for projecting apparatus. No. 1,357,724; Nov. 2; v. 280; p. 99.

Randall, Karl C., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-interrupter. No. 1,327,777; Jan. 13; v. 270; p. 229.

Randall, Lillian L., and E. A. Fries, Boston, Mass. Joint-assembling machine. No. 1,338,697; May 4; v. 274; p. 9.

Randall, Lillian L., and E. A. Fries, Boston, Mass. Clay-turning machine. No. 1,348,580; Aug. 3; v. 277; p. 87.

Randall, Myron R., Waupaca, Wis. Nutcracker. No. 1,357,472; Nov. 2; v. 280; p. 51.

Randall, Victor E. (See Gwatkin, B., Randall, and White.)

Randall, Victor E., Battle Creek, Mich. Closure for cans and conduit-bushings. No. 1,348,317; Aug. 3; v. 277; p. 37.

Randall, Victor E., assignor of one-half to B. Gwatkin, Battle Creek, Mich. Rail-seat holder. No. 1,337,621; Apr. 20; v. 273; p. 498.

Randolph, Chester L., assignor of one-third to A. Ehlers, Coscob, Conn., and one-third to R. B. F. Randolph, Roselle, N. J. Motor-car-locking device. No. 1,341,281; May 25; v. 274; p. 700.

Randolph, Fred F., Belchertown, Mass. Automobile-tire. No. 1,362,265; Dec. 14; v. 281; p. 304.

Randolph, Harry T., Kansas City, Kans. Cover. No. 1,330,345; Feb. 10; v. 271; p. 218.

Randolph, Oliver W., Toledo, Ohio. Grain-drier. No. 1,346,335; July 13; v. 276; p. 261.

Randolph Paper Box Company, The. (See Cavanaugh, Andrew J., Jr., assignor.)

Randolph, Rowland B. F., *et al.* (See Randolph, Chester L., assignor.)

Raney, Clemma R., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Auxiliary buffer for shockers. No. 1,328,795; Jan. 20; v. 270; p. 457.

Raney, Clemma R., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Bundle-carrier. No. 1,349,435; Aug. 10; v. 277; p. 806.

Raney, Estell C., assignor to The Automatic Reclosing Circuit Breaker Company, Columbus, Ohio. Attachment for electrical controllers. No. 1,363,813; Dec. 28; v. 281; p. 696.

Raney, Estell C., assignor to The Automatic Reclosing Circuit Breaker Company, Columbus, Ohio. Automatically-reclosing circuit-breaker. No. 1,363,814; Dec. 28; v. 281; p. 696.

Range Finding Sight Company. (See Gregory, Eli E., assignor.)

Rangnow Brothers. (See Rangnow, Otto, assignor.)

Rangnow, Otto, assignor to Rangnow Brothers, Philadelphia, Pa. Wardrobe-trunk. No. 1,361,181; Dec. 7; v. 281; p. 40.

Rankin, Anna L., Peoria, Ill. Garment. No. 1,351,687; Aug. 31; v. 277; p. 927.

Rankin, Edmund, Lincoln, Ill. Skimmer for boilers. No. 1,363,269; Dec. 28; v. 281; p. 591.

Rankin, George L., Munhall, Pa. School-desk. No. 1,346,976; July 20; v. 276; p. 447.

Rankin, William A., Chicago, Ill., assignor, by mesne assignments, to Edison Electric Appliance Company, Incorporated. Combined ironing-board and container. No. 1,334,792; Mar. 23; v. 272; p. 653.

Rankin, William A., Chicago, Ill., assignor to Edison Electric Appliance Company Inc. Electric heating device. No. 1,362,351; Dec. 14; v. 281; p. 320.

Ranlett, David L., assignor to American Balsa Company, Inc., New York, N. Y. Aqua-plane. No. 1,356,013; Oct. 19; v. 279; p. 400.

Rannells, David A., Logan, Ohio. Medical appliance. No. 1,355,846; Oct. 19; v. 279; p. 367.

Ranney, Leo. J. W. Dissette, and F. E. Tyrrell, Washington, D. C.; said Ranney and Tyrrell assignors to said Dissette. Ignition device. No. 1,341,362; May 25; v. 274; p. 716.

Ranney, William C., Elbridge, N. Y. Paper-roll holder and cutter. No. 1,330,005; Feb. 3; v. 271; p. 123.

Ranney, William C., Elbridge, N. Y. Tire-repairing tool No. 1,332,412; Mar. 2; v. 272; p. 46.

Ransdell, Robert W., assignor to Charles H. Rutherford, San Diego, Calif. Grease-retainer for automobile rear axles. No. 1,359,428; Nov. 16; v. 280; p. 540.

Ransom, George H., Birmingham, England. Wind-screen for use on conveyances and like purposes. No. 1,342,183; June 1; v. 275; p. 112.

Ransome, A., & Company. (See Lambley, Felix A., assignor.)

Ransome, Arthur W., Plainfield, assignor to Ransome Concrete Machinery Company, Dunellen, N. J. Concrete-mixing apparatus. No. 1,350,179; Aug. 17; v. 277; p. 523.

Ransome Concrete Machinery Company. (See Eichelberger, Lewis H., assignor.)

Ransome Concrete Machinery Company. (See Ransome, Arthur W., assignor.)

Ransomer, John, Batesville, Ark. Spark-plug. No. 1,333,731; Mar. 16; v. 272; p. 407.

Rantz, Charles F., *et al.* (See Reed, Lyman C., assignor.)

Rapattoni, Ernest, North Plymouth, Mass. Engine-silencer. No. 1,333,676; Mar. 16; v. 272; p. 397.

Rapavy, Gaspar, Louisville, Nebr. Dough-cutter. No. 1,343,844; June 15; v. 275; p. 555.

Raphael, Joseph H., and H. H. Scott, London, England. Spectacles or goggles. No. 1,338,526; Apr. 27; v. 273; p. 788.

Raplee, John R., Shelbina, Mo. Stock-loading chute. No. 1,345,238; June 29; v. 275; p. 955.

Rapp, Andrew, New York, N. Y. Foldable furniture. No. 1,339,669; May 11; v. 274; p. 267.

Rapp, Clarence J. (See Engles, A. F., and Rapp.)

Rapp, Fred, Albany, N. Y., assignor of one-half to F. W. Constable, Haverstraw, N. Y. Foundation extension. No. 1,331,461; Feb. 17; v. 271; p. 496.

Rapp, John W., and J. Vanorio; said Vanorio assignor to said Rapp. College Point, N. Y. Airplane-rib. No. 1,357,209; Oct. 26; v. 279; p. 681.

Digitized by Google

Rapp, John W., College Point, and J. Vanorio, Brooklyn, N. Y.; said Vanorio assignor to said Rapp. Running-gear for airplanes. No. 1,357,898; Nov. 2; v. 280; p. 133.

Rapp, John W., Flushing, and J. Vanorio, Brooklyn, N. Y.; said Vanorio assignor to said Rapp. Airplane-fuselage. No. 1,363,996; Dec. 28; v. 281; p. 731.

Rapp, John W., Flushing, and J. Vanorio, Brooklyn, N. Y.; said Vanorio assignor to said Rapp. Airplane-rib. No. 1,363,997; Dec. 28; v. 281; p. 731.

Rapp, William M., Marion, Ind. Tire-boot fastener. No. 1,357,116; Oct. 26; v. 279; p. 664.

Rappold, Frank A., and C. R. Tremaine, Columbus, Ohio. Electrode-holder. No. 1,360,017; Nov. 23; v. 280; p. 702.

Rapson, Fred L., Liverpool, England. Lifting-jack. No. 1,338,589; Apr. 27; v. 273; p. 749.

Rapson, Frederick L., Liverpool, England. Lifting-jack. No. 1,343,845; June 15; v. 275; p. 555.

Rapson, Frederick L., Liverpool, England. Means for steering motor-vehicles. No. 1,343,846; June 15; v. 275; p. 555.

Rapson, Frederick L., Liverpool, England. Lifting-jack and the like for use on motor road and other vehicles. No. 1,350,036; Aug. 17; v. 277; p. 496.

Rapson, Frederick L., Liverpool, England. Lifting-jack and the like for use on motor road and other vehicles. No. 1,354,338; Sept. 28; v. 278; p. 657.

Rapson, Frederick L., Liverpool, England. Hood or cover for motor road and other vehicles. No. 1,360,579; Nov. 30; v. 280; p. 880.

Rare Metals Reduction Company, The. (See Grenagle, James B., assignor.)

Rarig, Welden C., Corpus Christi, Tex. Combination steering mechanism for plows. No. 1,335,529; Mar. 30; v. 272; p. 851.

Rasch, Louis, New York, assignor of one-fourth to J. Rebholz and one-tenth to F. J. Schill, Bayshore, and one-fourth to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Motor for gas-meters. No. 1,355,165; Oct. 12; v. 279; p. 195.

Rasch, Ludvik, Christiania, Norway. Device for closing the slits of packing-rings. No. 1,332,952; Mar. 9; v. 272; p. 200.

Rasch, Paul, Chicago, Ill. Spraying device. No. 1,347,520; July 27; v. 276; p. 610.

Raschella, Vincent, Weehawken, N. J. Shoe-polishing machine. No. 1,329,677; Feb. 3; v. 271; p. 62.

Rasel, Louis C. (See Allender, Charles W. G., assignor.)

Rashell, Edward A., assignor of one-half to W. L. Smart, Lamasco, Tex. Mail-transferring apparatus. No. 1,337,956; Apr. 20; v. 273; p. 562.

Rasmussen, Alvin C. (See Insley, W. H., and Rasmussen.)

Rasmussen, Andrew, Racine Junction, Wis. Power-hack-saw machine. No. 1,334,166; Mar. 16; v. 272; p. 489.

Rasmussen, Charles, assignor of one-half to R. T. Ingalls, Racine, Wis. Tire-cutting machine. No. 1,357,899; Nov. 2; v. 280; p. 133.

Rasmussen, Fred, Blaine, Wash. Valve-cap. No. 1,355,359; Oct. 12; v. 279; p. 233.

Rasmussen, Hans, Chicago, Ill. Supporting and constructing concrete-floor sections. No. 1,335,458; Mar. 30; v. 272; p. 838.

Rasmussen, Louis W., Chicago, Ill. Magnetic spark-plug. No. 1,355,358; Oct. 12; v. 279; p. 233.

Rasmussen, Martin, Racine, Wis. Automobile-hoist. No. 1,356,690; Oct. 12; v. 279; p. 296.

Rasmussen, Martin, Racine, assignor to A. R. Tesch, Milwaukee, Wis. Separable broom-head and filler therefor. No. 1,350,520; Aug. 24; v. 277; p. 637.

Rasmussen, Mary E. (See Hammond, Benjamin R., assignor.)

Rasmussen, Niels C., Troy, N. Y. Blind-slat attachment. No. 1,340,252; May 18; v. 274; p. 433.

Rasmussen, Peter, New York, N. Y. Yarn-fastener for reel-mills. No. 1,360,018; Nov. 23; v. 280; p. 702.

Rasmussen, Robert F., assignor to C. A. Libbey Company, Oshkosh, Wis. Stanchion-alinement device. No. 1,344,651; June 29; v. 275; p. 843.

Rasmussen, Robert F., assignor to C. A. Libbey Company, Oshkosh, Wis. Stall-frame support. No. 1,362,352; Dec. 14; v. 281; p. 320.

Rasmussen, William R., Los Angeles, Calif. Finger-guard. No. 1,337,957; Apr. 20; v. 273; p. 562.

Raspet, Thomas, Meadow Lands, Pa. Nut-lock. No. 1,362,509; Dec. 14; v. 281; p. 350.

Rassmann, F., Manufacturing Company. (See Rassmann, Hugo C., assignor.)

Rassmann, Hugo C., Beaver Dam, Wis. Watering device for stock. No. 1,327,734; Jan. 13; v. 270; p. 221.

Rassmann, Hugo C., Beaver Dam, Wis. Watering device for cattle. No. 1,344,189; June 22; v. 275; p. 686.

Rassmann, Hugo C., assignor to F. Rassmann Manufacturing Company, Beaver Dam, Wis. Supporting and alining means for stanchions. No. 1,327,735; Jan. 13; v. 270; p. 221.

Rastetter, William C., Fort Wayne, Ind. Steering-wheel. No. 1,331,210; Feb. 17; v. 271; p. 449.

Ratchford, Nicholas, Saratoga, Ind. Resilient wheel. No. 1,335,752; Apr. 6; v. 273; p. 9.

Rateau Battu Smoot Engineering Corporation. (See Smoot, Charles H., assignor.)

Ratekin, William J., Oakes, N. D. Grate. No. 1,329,629; Feb. 3; v. 271; p. 53.

Ratekin, William J., Oakes, N. D. Grate. No. 1,344,062; June 22; v. 275; p. 662.

Rathbone, De Forest L., Jacksonville, Fla. Water-heater. No. 1,346,251; July 13; v. 276; p. 244.

Rathbone, De Forest L., Jacksonville, Fla. Combination closet-seat and bidet. No. 1,346,252; July 13; v. 276; p. 244.

Rathbone, Sard & Co. (See Toomey, John J., assignor.) (Reissue.)

Rathburn, Fred W., *et al.* (See Curtis, Arthur A., assignor.)

Rathman, Gilbert, assignor of one-half to J. A. Brown, New York, N. Y. Thermal time-switch. No. 1,355,847; Oct. 19; v. 279; p. 368.

Rathvon, Samuel F., Denver, Colo. Apparatus for removing paraffin from oil-wells. No. 1,358,393; Nov. 9; v. 280; p. 293.

Ratigan, James P., Los Angeles, Calif. Pumping apparatus. No. 1,352,627; Sept. 14; v. 278; p. 212.

Ratner, Aaron, New York, N. Y. Dish-rack for washing-machines. No. 1,345,401; July 6; v. 276; p. 15.

Rattermann, George B., Chicago, Ill., and W. W. Garrison, Birmingham, Ala. Automatic fire-alarm. No. 1,349,531; Aug. 10; v. 277; p. 325.

Ratti, Giuseppe. (See Gervasoni, P., and Zecchini, assignors.)

Ratzburg, Victor P., Nashua, N. H., assignor, by mesne assignments, to Barrell Holding and Manufacturing Company, Portland, Me. Armor for vehicle-tires. No. 1,338,842; May 4; v. 274; p. 35.

Ratzburg, Victor P., Nashua, N. H., assignor, by mesne assignments, to Barrell Holding and Manufacturing Company, Portland, Me. Armor for vehicle-tires. No. 1,338,843; May 4; v. 274; p. 36.

Rau, Herman, assignor to Doehler Die Casting Company, Brooklyn, N. Y. Multiple-mold casting apparatus. No. 1,359,196; Nov. 16; v. 280; p. 493.

Rau, John, Indianapolis, Ind. Glass-discharging mechanism. No. 1,329,851; Feb. 3; v. 271; p. 95.

Rau, Moses L., Chicago, Ill. Match-holder. No. 1,357,250; Nov. 2; v. 280; p. 10.

Rau, Rodolphe, Geneva, Switzerland. Protection of ships in groups or convoys. No. 1,357,473; Nov. 2; v. 280; p. 51.

Rauch, Charles B., Dayton, Ohio. Banjo. No. 1,354,685; Oct. 5; v. 279; p. 48.

Rauch, George W., Orrville, Ohio. Sweeper. No. 1,333,677; Mar. 16; v. 272; p. 397.

Rauer, Philipp, New York, assignor to Permolin Products Company, Inc., Brooklyn, N. Y. Process of producing molded objects and apparatus for use in connection therewith. No. 1,342,184; June 1; v. 275; p. 112.

Rauh, Milton. (See Aylor, W. E., and Rauh.)

Rausch, Carl A., Leipsig-Gohlis, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Boarding-machine. No. 1,342,760; June 8; v. 275; p. 277.

Rauscher, Frederick, New York, N. Y. Combined lamp and signal. No. 1,351,689; Aug. 31; v. 277; p. 928.

Ravner, Oystein. (See Goldschmidt, V. M., and Ravner.)

Rawleigh, Raymond H., Wilmington, Del. Typewriter attachment. No. 1,332,004; Feb. 24; v. 271; p. 619.

Rawlings, Arthur L. (See Harrison, G. B., and Rawlings.)

Rawlings, Frederick G., and A. H. McDaniel, assignors to Atlas Powder Company, Wilmington, Del. Electric switch. No. 1,331,783; Feb. 24; v. 271; p. 577.

Rawls, Silas E., Chicago, Ill. Track-mower. No. 1,358,112; Nov. 9; v. 280; p. 236.

Rawson, Harry P., Minneapolis, Minn. Dental appliance. No. 1,345,549; July 6; v. 276; p. 44.

Rawson, William S., Bridgeport, Conn. Folding top for vehicles. No. 1,347,553; July 27; v. 276; p. 617.

Rawson, William S., Bridgeport, Conn. Folding top for vehicles. No. 1,347,554; July 27; v. 276; p. 617.

Rawsthorne, John S. (See Bevin and Rawsthorne.)

Ray, Albert D., Cleveland, Ohio. Oil-bolt. No. 1,336,654; Apr. 13; v. 273; p. 239.

Ray, Albert D., assignor of one-half to G. W. Kinzel, Cleveland, Ohio. Tractor. No. 1,356,658; Oct. 26; v. 279; p. 574.

Ray, Arthur F. (See Hayes, Albert, assignor.)

Ray Bros. Corporation. (See Giesecke, William E., assignor.)

Ray, Eugene J., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sewing-machine. No. 1,332,688; Mar. 2; v. 272; p. 97.

Ray, Eugene J., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Pulling-over machine. No. 1,356,887; Oct. 26; v. 279; p. 618.

Ray, Frederick, Short Hills, N. J. Ring-gaging instrument. No. 1,332,570; Mar. 2; v. 272; p. 76.

Ray, Frederick, Short Hills, N. J. Ring-gage. No. 1,332,571; Mar. 2; v. 272; p. 76.

Digitized by Google

Alphabetical list of patentees—Continued.

Ray, Frederick, Short Hills, N. J. Manufacture of metal packing-rings. No. 1,332,572; Mar. 2; v. 272; p. 76.
Ray, Frederick, Short Hills, N. J. Ring-tensioning apparatus. No. 1,332,573; Mar. 2; v. 272; p. 76.
Ray, Frederick, Short Hills, N. J. Apparatus for manufacturing piston-rings. No. 1,341,671; June 1; v. 275; p. 11.
Ray, George W., and W. V. Harrington, Minneapolis, Minn.; said Ray assignor to said Harrington. Lamp-dimmer. No. 1,335,918; Apr. 6; v. 273; p. 40.
Ray, Harvey, Kansas City, Mo. Cooking-vessel attachment. No. 1,347,971; July 27; v. 276; p. 700.
Ray, James S., Duluth, Minn. Time-lock. No. 1,352,694; Sept. 14; v. 278; p. 226.
Ray, Maggie B., Kansas City, Mo. Bed-covering and bed-springs covering. No. 1,359,526; Nov. 23; v. 280; p. 605.
Ray, Paul H., *et al.* (See Watanabe, Bunzo, assignor.)
Ray, William F., Chicago, Ill. Apparatus for manufacturing tires or interliners. (Reissue.) No. 14,879; June 8; v. 275; p. 363.
Ray, William F., Chicago, Ill. Armor-bending machine. No. 1,359,197; Nov. 16; v. 280; p. 494.
Ray, William R., San Francisco, Calif. Oil-burner. No. 1,327,571; Jan. 6; v. 270; p. 129.
Ray, William R., San Francisco, Calif. Burner-mounting. No. 1,328,198; Jan. 13; v. 270; p. 308.
Ray, Xolon O., Chaffee, Mo. Display-stand. No. 1,350,940; Aug. 24; v. 277; p. 717.
Raybestos Company, The. (See Kelley, Edward F., assignor.)
Raybestos Company, The. (See Simpson, Sumner, assignor.)
Rayburn, Alden G. (See Rayburn, Elwyn M. and A. G.)
Rayburn, Elwyn M. and A. G., Sausalito, Calif. Power-transmission apparatus. No. 1,348,738; Aug. 3; v. 277; p. 117.
Rayfield, Charles L., Chicago, Ill. Belt-tightener. No. 1,345,461; July 6; v. 276; p. 26.
Rayfield, Charles L., Chicago, Ill. Belt-tightener. No. 1,348,183; Aug. 3; v. 277; p. 10.
Rayfield, Charles L., Chicago, Ill. Flexible coupling. No. 1,348,184; Aug. 3; v. 277; p. 10.
Rayfield, Charles L., assignor to Findeisen & Kropf Manufacturing Company, Chicago, Ill. Carbureter. No. 1,335,389; Mar. 30; v. 272; p. 825.
Rayfield, Charles L., assignor to Findeisen & Kropf Manufacturing Company, Chicago, Ill. Carbureter. No. 1,335,390; Mar. 30; v. 272; p. 825.
Rayfield, Charles L., assignor to Findeisen & Kropf Manufacturing Company, Chicago, Ill. Thermal-controlled circulating system. No. 1,335,391; Mar. 30; v. 272; p. 825.
Rayfield, Charles L., assignor to Findeisen & Kropf Manufacturing Company, Chicago, Ill. Heater for carbureters. No. 1,335,392; Mar. 30; v. 272; p. 826.
Rayfield, Charles L., assignor to Findeisen & Kropf Manufacturing Company, Chicago, Ill. Carbureter. No 1,352,628; Sept. 14; v. 278; p. 212.
Rayfield, Charles L., assignor to Findeisen & Kropf Manufacturing Company, Chicago, Ill. Carbureter. No. 1,354,686; Oct 5; v. 279; p. 48.
Rayfield, Charles L., assignor to Beneke & Kropf Mfg. Co., Chicago, Ill. Temperature-regulator for internal-combustion engines. No. 1,359,198; Nov. 16; v. 280; p. 494.
Rayfield, George T., Chicago, Ill. Universal coupling. No. 1,346,253; July 13; v. 276; p. 244.
Raymer Manufacturing Company. (See Raymer, Oscar L., assignor.)
Raymer, Morris. (See Johnson, H. L., and Raymer.)
Raymer, Oscar L., assignor to Raymer Manufacturing Company, Limited, Toronto, Ontario, Canada. Buckle. No. 1,347,827; July 27; v. 276; p. 671.
Raymer, Wallace L., Berlin, N. Y. Corset-steel. No. 1,363,532; Dec. 28; v. 281; p. 641.
Raymond, Alonzo C., Detroit, Mich. Wall construction. No. 1,327,292; Jan. 6; v. 270; p. 77.
Raymond Concrete Pile Company. (See Hamlin, Horace P., assignor.)
Raymond, John, Jr., Springfield, Vt. Conveyer. No. 1,345,634; July 6; v. 276; p. 60.
Raymond, Joseph A., Chicago, Ill. Collapsible casket-carrier. No. 1,347,466; July 20; v. 276; p. 542.
Rayne, Aloysius W., Fulton, Mo. Railway construction. No. 1,338,590; Apr. 27; v. 273; p. 750.
Raynor, Albert T. (See Egbert, B. S., and Raynor.)
Re, Enrico, Camden, N. J. String musical instrument. No. 1,340,628; May 18; v. 274; p. 505.
Re, Enrico, Camden, N. J. Stringed musical instrument. No. 1,345,239; June 29; v. 275; p. 955.
Rea, Philip M., West Chicago, Ill. Wire-line clamp. No. 1,339,419; May 11; v. 274; p. 218.
Rea, Philip M., West Chicago, Ill. Liner for wire-line clamps. No. 1,339,420; May 11; v. 274; p. 218.
Rea, Robert, and F. W. Waters, Portland, Oreg. Conveying and steam and water bleaching apparatus for dehydrating plants. No. 1,328,395; Jan. 20; v. 270; p. 382.
Rea, Robert, and F. W. Waters, Portland, Oreg. Fruit, vegetable, and other food dehydrating furnace and its cooperating apparatus. No. 1,328,396; Jan. 20; v. 270; p. 382.
Rea, Robert, and F. W. Waters, Portland, Oreg. Steam bleaching apparatus. No. 1,328,397; Jan. 20; v. 270; p. 382.
Rea, Robert, and E. W. Waters, Portland, Oreg. Heat-regulating adjustable-shutter mechanism for food-dehydrating plants. No. 1,328,398; Jan. 20; v. 270; p. 383.
Reaben, George B., New York, N. Y. Arrow. No. 1,328,967; Jan. 27; v. 270; p. 519.
Reach, William F., Chicopee, Mass., assignor to A. G. Spalding & Bros., Jersey City, N. J. Golf-club. No. 1,337,958; Apr. 20; v. 273; p. 567
Read, Charles F., *et al.* (See Glass, Joseph J., assignor.)
Read, Charles G., Buffalo, N. Y. Locking device for automobiles. No. 1,336,379; Apr. 6; v. 273; p. 127.
Read, Charles H., Pittsburgh, Pa. Treating steel ingots. No. 1,349,733; Aug. 17; v. 277; p. 438.
Read, Collins P., Newark, N. J. Safety-chock. No. 1,336,442; Apr. 13; v. 273; p. 199.
Read, Erle, Tallulah, La. Back-band. No. 1,357,823; Nov. 2; v. 280; p. 119.
Read, Fred A., Lynn, assignor to Reece Buttonhole Machine Company, Boston, Mass. Buttonhole-sewing machine. No. 1,345,025; June 29; v. 275; p. 914.
Read, George B., Bloomington, Ill. Elevator. No. 1,340,253; May 18; v. 274; p. 433.
Read, Harry A. S., Andover, Mass. Driving-band. No. 1,339,287; May 4; v. 274; p. 117.
Read, Henry R., Brooklyn, N. Y. Vehicle. No. 1,363,917; Dec. 28; v. 281; p. 716.
Read, Judson W., Denver, Colo. Butt-gage. No. 1,336,157; Apr. 6; v. 273; p. 86.
Read, Norman. (See Swisher, Samuel C., assignor.)
Read, Perry D., Norfolk, Va. Automobile-bumper. No. 1,342,393; June 1; v. 275; p. 151.
Read, Walter C., Bloomfield, N. J. Brush. No. 1,330,953; Feb. 17; v. 271; p. 402.
Read, William L., *et al.* (See Glass, Joseph J., assignor.)
Reader, James H., Kanapolis, N. C. Combined roll-holders, cutters, and twine-holders. No. 1,340,132; May 11; v. 274; p. 354.
Readfield, Oliver A., *et al.* (See McFarlane, Percy D., assignor.)
Reading Steel Casting Company. (See Meals, Casper D., assignor.)
Reading Stove Works, Orr, Painter & Co., The. (See Genthner, Charles M., assignor.)
Reagan Bale Company. (See Taft, John A., assignor.)
Realty Trust Company, The, *et al.*, trustees. (See Warren, William H., assignor.)
Ream, Fred H., Kansas City, Mo. Universal joint. No. 1,328,449; Jan. 20; v. 270; p. 392.
Ream, Gordon A., Detroit, Mich. Automatic circuit-opening switch for ignition systems. No. 1,336,158; Apr. 6; v. 273; p. 86.
Ream, John L., Axtell, Kans. Adjustable collar. No. 1,347,712; July 27; v. 276; p. 648.
Reams, Andrew J., Jr., and L. A. Williams, assignors to Gibson Mandolin-Guitar Co., Kalamazoo, Mich. Stringed musical instrument. No. 1,361,182; Dec. 7; v. 281; p. 40.
Reamy, Christopher S., Los Angeles, Calif. Heel-cutter. No. 1,344,247; June 22; v. 275; p. 697.
Reardon, Fred A., assignor to Hamel Shoe Machinery Company, Haverhill, Mass. Inseam-trimming machine. No. 1,357,591; Nov. 2; v. 280; p. 73.
Reardon, James, Bloomingdale, N. J., assignor to American Hard Rubber Co., New York, N. Y. Making hard-rubber articles, such as combs and the like. No. 1,359,919; Nov. 23; v. 280; p. 682.
Reardon, John F., Fall River, Mass., and E. H. Kristek, Thompson, Conn. Tension device. No. 1,330,006; Feb. 3; v. 271; p. 123.
Reardon, Robert E., Cherrydale, Va. Dummy cartridge. No. 1,347,659; July 27; v. 276; p. 637.
Reardon, Timothy H., North Adams, Mass. Apparatus for measuring ohmic resistance of liquids and solutions. No. 1,346,057; July 6; v. 276; p. 144.
Reath, Calvin. (See Scanlin, E., and Reath.)
Reaugh, Frank, Oak Cliff, Tex. Oiling system. No. 1,357,301; Nov. 2; v. 280; p. 20.
Reavell, William, Ipswich, England. Hydroplane or horizontal rudder of submarine vessels. No. 1,343,643; June 15; v. 275; p. 514.
Reavell, William, and H. Haerle, Ipswich, England. Rotary engine, compressor, and exhauster. No. 1,345,955; July 6; v. 276; p. 124.
Reber, Emil, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Disazodystuffs able to be chromated. No. 1,338,397; Apr. 27; v. 273; p. 714.
Rebholz, Joseph, *et al.* (See Rasch, Louis, assignor.)
Rebours, Jules, Grand Rapids, Mich. Gasolene and oil system for automobiles. No. 1,358,783; Nov. 16; v. 280; p. 415.
Rebours, Jules, Grand Rapids, Mich. Convertible vehicle-body. No. 1,358,784; Nov. 16; v. 280; p. 416.
Rebsamen, Emmett J., St. Louis, Mo. Keyless lock. No. 1,344,517; June 22; v. 275; p. 752.
Rece, Frank S., Dallas, Tex. Decapitator. No. 1,349,916; Aug. 17; v. 277; p. 472.
Rece, Frank S., Dallas, Tex. Joint for metallic structures. No. 1,351,967; Sept. 7; v. 278; p. 51.

Digitized by Google

Rece, Frank S., assignor of one-half to A. P. Cunningham, Dallas, Tex. Poultry-killer. No. 1,356,941; Oct. 26; v. 279; p. 629.
Rece, Frank S., assignor of one-half to A. P. Cunningham, Dallas, Tex. Decapitator. No. 1,356,942; Oct. 26; v. 279; p. 629.
Rechter, George, San Francisco, Calif. Comb-cleaner. No. 1,339,863; May 11; v. 274; p. 303.
Recke, William, New York, N. Y. Electric sign. No. 1,359,274; Nov. 16; v. 280; p. 509.
Recker, Adolph C., Oakville, assignor to The Chase Companies Inc., Waterbury, Conn. Convertible plate for electrical plug-receptacles. No. 1,349,978; Aug. 17; v. 277; p. 485.
Recker, Adolph C., Oakville, assignor to The Chase Companies, Inc., Waterbury, Conn. Electric terminal-clamp. No. 1,363,350; Dec. 28; v. 281; p. 606.
Reckers, William A., *et al.* (See Word, John B., assignor.)
Records, Paul A., Perryton, Tex. Pusher attachment for tractors. No. 1,350,838; Aug. 24; v. 277; p. 698.
Rector, Enoch, New York, N. Y. Portable burner. No. 1,341,672; June 1; v. 275; p. 12.
Rector, Floyd D. and W. Q., Louisville, Ky. Charge-forming device. No. 1,328,199; Jan. 13; v. 270; p. 308.
Rector, William Q. (See Rector, Floyd D. and W. Q.)
Recuero, Joseph G., New York, N. Y. Hydraulic motor. No. 1,350,265; Aug. 17; v. 277; p. 540.
Redcay, Paul D., Royersford, Pa. Machine for making tubular binding. No. 1,348,051; July 27; v. 276; p. 716.
Reddie, David H., assignor to Smith & Wesson, Springfield, Mass. Box or carton. No. 1,363,616; Dec. 28; v. 281; p. 657.
Reddin, Thomas P., Bridgeport, Conn. Power transmission. No. 1,328,588; Jan. 20; v. 270; p. 419.
Reddy, Frederick, Ottawa, Ontario, Canada. Nut-lock. No. 1,328,399; Jan. 20; v. 270; p. 383.
Red-E Company, The. (See O'Kane, Walter C., assignor.)
Redeker, Edward S. (See Clark, Edward O., assignor.)
Redfern, Thomas, Kearney, N. J. Clothes-drier. No. 1,362,139; Dec. 14; v. 281; p. 279.
Redfield, Casper L., trustee. (See Lundquist, Frank A., assignor.)
Redfield, Cleveland, and C. C. Hartley, assignors to Automatic Controller and Manufacturing Co., Ogden, Utah. Electric welding-machine. No. 1,369,962; Dec. 21; v. 281; p. 489.
Redfield, Edward E., Glendale, Oreg. Firearm. No. 1,343,583; June 15; v. 275; p. 503.
Redgate, George M., Brooklyn, N. Y. Vent-head. No. 1,354,623; Oct. 5; v. 279; p. 36.
Redman, L. V., Evanston, A. J. Weith, and F. P. Brock, assignors to Redmanol Chemical Products Company, Chicago, Ill. Manufacture of phenolic condensation products. No. 1,358,394; Nov. 9; v. 280; p. 293.
Redman, Lawrence V., Evanston, and A. J. Weith and F. P. Brock, Chicago, assignors to Redmanol Chemical Products Company, Chicago, Ill. Phenolic condensation product and manufacturing. No. 1,339,134; May 4; v. 274; p. 91.
Redman, Lawrence V., Evanston, and A. J. Weith and F. P. Brock, assignors to Redmantol Chemical Products Company, Chicago, Ill. Cigarette-holder. No. 1,342,868; June 8; v. 275; p. 299.
Redman, Lawrence V., Evanston, A. J. Weith and F. P. Brock, assignors to Redmanol Chemical Products Company, Chicago, Ill., Producing a phenolic condensation product. No. 1,345,694; July 6; v. 276; p. 72.
Redman, Lawrence V., Evanston, A. J. Weith and F. P. Brock, assignors to Redmanol Chemical Products Company, Chicago, Ill. Preserving infusible phenolic condensation products from discoloration after preserving. No. 1,345,695; July 6; v. 276; p. 72.
Redman, Robert, and J. W. Parkinson, Crosshills, near Keighley, and C. T. Walker, Roundbay, Leeds, England. Shuttle-checking and buffer device for looms. No. 1,356,738; Oct. 26; v. 279; p. 589.
Redmanol Chemical Products Company. (See Redman, L. V., Weith, and Brock, assignors.)
Redmon, Claude F., C. G., L. K., and J. T., Paris, Ky. Automatic circuit mechanism. No. 1,357,900; Nov. 2; v. 280; p. 133.
Redmon, Claude G. (See Redmon, Claude F., C. G., L. K., and J. T.
Redmon, John T. (See Redmon, Claude F., C. G., L. K., and J. T.)
Redmon, Lillard K. (See Redmon, Claude F., C. G., L. K., and J. T.)
Redmond, John, New York, N. Y. Steam-trap. No. 1,330,612; Feb. 10; v. 271; p. 268.
Redpath, Corabell, Los Angeles, Calif. Dolly. No. 1,349,099; Aug. 10; v. 277; p. 240.
Reece Button Hole Machine Company, The. (See Hagelstein, Christian H. T., assignor.)
Reece Button Hole Machine Company. (See Klewicz, John, assignor.)
Reece Button Hole Machine Company. (See Read, Fred A., assignor.)
Reece Button Hole Machine Company. (See Reece, Franklin A., assignor.)
Reece Button Hole Machine Company, The. (See Zaleski, Frank, assignor.)
Reece, Earl J., assignor to Onlee Headlight Controller Company, Springfield, Mass. Dimmer for headlights. No. 1,330,766; Feb. 10; v. 271; p. 297.
Reece, Frank A., Hopkinton, Mass. Automobile-headlight. No. 1,331,211; Feb. 17; v. 271; p. 449.
Reece, Franklin A., Chestnut Hill, assignor to The Reece Button Hole Machine Company, Boston, Mass. Buttonhole-sewing machine. No. 1,343,278; June 15; v. 275; p. 443.
Reece, Franklin A., Hopkinton, assignor to The Reece Button Hole Machine Company, Boston, Mass. Buttonhole-sewing machine. No. 1,343,337; June 15; v. 275; p. 454.
Reece Shoe Machinery Company. (See Perri, Angelo, assignor.)
Reece Shoe Machinery Company. (See Schoenky, August R., assignor.)
Reece Shoe Machinery Company. (See Zaleski, F., and Schoenky, assignors.)
Reecke, Paul, Wallaceburg, Ontario, Canada. Retort. No. 1,358,327; Nov. 9; v. 280; p. 278.
Reed, Andrew H., Fullerton, Calif. Inserter and elevator for standing valves. No. 1,334,117; Mar. 16; v. 272; p. 480.
Reed, Charles A., Williamsport, Pa. Ornamental rope. No. 1,346,461; July 13; v. 276; p. 286.
Reed, Charles J., Glenside, Pa. Making sulfuric acid. No. 1,363,918; Dec. 28; v. 281; p. 716.
Reed, Chase C., assignor to The R. & C. Engineering Company, Toledo, Ohio. Plowing-machine. No. 1,328,896; Jan. 27; v. 270; p. 506.
Reed, Clarence E. (See McMillian, J. F., and Reed.)
Reed, Edward C. (See Brummett, W. S., and Reed.)
Reed, Evan L., Sterling, Ill. Paper-roll support. No. 1,341,862; June 1; v. 275; p. 49.
Reed, Evan L., Sterling, Ill. Wall-rack. No. 1,356,014; Oct. 19; v. 279; p. 400.
Reed Foundry & Machine Co. (See Mason, Jason B., assignor.)
Reed, Frank C., *et al.* (See Popcke, A. G., and Johnston, assignors.)
Reed, Fred L., Syracuse, N. Y. Jar-cover remover. No. 1,337,158; Apr. 13; v. 273; p. 835.
Reed, George E., Atlantic City, N. J. Broiler. No. 1,361,183; Dec. 7; v. 281; p. 40.
Reed, George H., Newark, N. J. Support for reinforcing-rods. No. 1,350,335; Aug. 24; v. 277; p. 600.
Reed, Henry J., Seattle, Wash. Garment-supporter. No. 1,347,911; July 27; v. 276; p. 688.
Reed, Hugh T., Chicago, Ill. Pocket-case. No. 1,354,211; Sept. 28; v. 278; p. 631.
Reed, James D., Eagle, Mich. Timing device. No. 1,345,402; July 6; v. 276; p. 15.
Reed, James H., Burns, Oreg. Package-tie. No. 1,353,611; Sept. 21; v. 278; p. 467.
Reed, John A., Miles City, Mont. Collapsible supporting and leveling frame for ironing-boards. No. 1,359,527; Nov. 23; v. 280; p. 605.
Reed, John M., Covallis, Mont. Desk and chair. No. 1,334,167; Mar. 16; v. 272; p. 489.
Reed, Joseph H., Waterville, Me. Buckle. No. 1,362,738; Dec. 21; v. 281; p. 447.
Reed, Laurence E. (See Ortiz, L. M., and Reed.)
Reed, Lemon M., assignor to H. E. Gynn, Cleveland Heights, Ohio. Spring-seat. No. 1,355,263; Oct. 12; v. 279; p. 215.
Reed, Lemon M., assignor to H. E. Gynn, Cleveland Heights, Ohio. Spring-seat. No. 1,359,528; Nov. 23; v. 280; p. 605.
Reed, Lyman C., assignor of one-third to S. B. Corby and one-third to C. F. Rantz, New Orleans, La. Method of and apparatus for shaving ice. No. 1,333,094; Mar. 9; v. 272; p. 227.
Reed, Marlin G., Brookville, Pa. Shock-absorber. No. No. 1,356,471; Oct. 19; v. 279; p. 490.
Reed, Melvin B., Latrobe, Pa. Nut-lock. No. 1,342,508; June 8; v. 275; p. 228.
Reed, Ralph R., Morgan Hill, Calif. Aeroplane. No. 1,354,002; Sept. 28; v. 278; p. 588.
Reed, Richard D., assignor to The H. B. Smith Company, Westfield, Mass. Boiler. No. 1,334,676; Mar. 23; v. 272; p. 630.
Reed, Richard S., Kokomo, Ind. Vehicle-tire. No. 1,346,336; July 13; v. 276; p. 261.
Reed, Robert R., Ithaca, N. Y. Electric furnace. No. 1,357,901; Nov. 2; v. 280; p. 134.
Reed, Thomas H., Newark, N. J. Tone-arm for talking-machines. No. 1,346,254; July 13; v. 276; p. 244.
Reed, Thomas L. (See Edwards, A. B., Turner, and Reed.)
Reed, Walter C., Dalton, assignor to P. W. Goewey, Pittsfield, Mass. Swell-box for pipe-organs. No. 1,353,667; Sept. 21; v. 278; p. 478.
Reed, Walter C., Dalton, assignor to P. W. Goewey, Pittsfield, Mass. Key-action. No. 1,369,019; Nov. 23; v. 280; p. 702.
Reed, William. (See Garrison, Perry J., assignor.)
Reed, William C., Stockville, Nebr. Harness-buckle. No. 1,345,956; July 6; v. 276; p. 124.
Reeder, John F., New York, N. Y. Drying-room. No. 1,325,702; Mar. 30; v. 272; p. 884.

Digitized by Google

Alphabetical list of patentees—Continued.

Reeder, Leonard F., and W. B. Jackson, McKinney, Tex. Boll-weevil device. No. 1,363,998; Dec. 28; v. 281; p. 731.
Reeder, Nathaniel S., New York, N. Y., assignor to Pressed Steel Car Company, Pittsburgh, Pa. Car-roof construction. No. 1,328,200; Jan. 13; v. 270; p. 809.
Reedy, Maurice W., assignor of one-half to F. B. Shearer, Aurora, Ill. Railway signal system. No. 1,335,919; Apr. 6; v. 273; p. 41.
Rees, Charles S., San Antonio, Tex. Lens-mounting. No. 1,334,551; Mar. 23; v. 272; p. 607.
Rees, Edmund S. G., Wolverhampton, England. Propulsion and steering of ships. No. 1,344,518; June 22; v. 275; p. 752.
Rees, Llewelyn M., Hamilton, Ontario, Canada. Weatherstrip. No. 1,352,695: Sept. 14; v. 278; p. 226.
Rees, Warren C., Somerville, assignor to Aseptic Service Company, Boston, Mass. Sanitary water-closet. No. 1,346,255; July 13; v. 276; p. 244.
Reese, Alba D., Bisbee, Ariz. Device for registering explosions. No. 1,343,875; June 15; v. 275; p. 562.
Reese, Charles L., Wilmington, Del., assignor, by mesne assignments, to The Arlington Company, Arlington, N. J. Stabilizing nitrocellulose and product thereof. No. 1,358,653; Nov. 9; v. 280; p. 344.
Reese, Charles N., Wilmette, Ill. Vacuum suction-plate. No. 1,337,622; Apr. 20; v. 273; p. 498.
Reese, Charles N., Wilmette, Ill. Dental attachment. No. 1,347,555; July 27; v. 276; p. 617.
Reese, Edward B., assignor to Swartz Electric Company, Indianapolis, Ind. Electric switch. No. 1,332,574; Mar. 2; v. 272; p. 77.
Reese, Edward B., assignor to Swartz Electric Company, Indianapolis, Ind. Automatic electric generating system. No. 1,360,246; Nov. 23; v. 280; p. 747.
Reese, Edward B., assignor to Swartz Electric Company, Indianapolis, Ind. Automatic electric-power plant. No. 1,361,097; Dec. 7; v. 281; p. 23.
Reese, Frank, Minneapolis, Minn. Screen for swinging sash. No. 1,343,933; June 22; v. 275; p. 637.
Reese, James A., Blytheville, Ark, assignor to American Pipe Machine Company. Machine for threading pipes. No. 1,343,158; June 8; v. 275; p. 356.
Reese, Louis C., Saginaw, Mich. Extracting bran and similar products. No. 1,331,125; Feb. 17; v. 271; p. 433.
Reese, Louis C., Saginaw, Mich. Apparatus for extracting from bran and the like their nutritious components. No. 1,334,552; Mar. 23; v. 272; p. 608.
Reese, Louis C., Saginaw, Mich. Apparatus for determining the specific gravity of doughs, pastes, and the like. No. 1,337,410; Apr. 20; v. 273; p. 458.
Reesman, John S., Highland Park, Ill. Pipe-connection seal. No. 1,361,615; Dec. 7; v. 281; p. 128.
Reeve, George A., Middletown, Ohio. Belt-shifter. No. 1,341,440: May 25; v. 274; p. 732.
Reeve, Henry E., New York, N. Y. Fuel-regulator. (Reissue.) No. 14,894; June 22; v. 275; p. 771.
Reeve, Henry E., New York, N. Y. Fuel-regulator. (Reissue.) No. 14,895; June 22; v. 275; p. 772.
Reeve, Sidney A., New Brighton, N. Y. Typewriter. No. 1,358,785; Nov. 16; v. 280; p. 416.
Reeve, William B. (See Sauer, V. O., and Reeve.)
Reeves, Clifton, Trenton, N. J. Steam-engine construction. No. 1,337,024; Apr. 13; v. 273; p. 810.
Reeves, Donald H. (See Laddon and Reeves.)
Reeves, Donald H., Dayton, Ohio. Electrically-actuated pump. No. 1,346,555; July 13; v. 276; p. 804.
Reeves, Frank N. (See Dixon, A. F., and Reeves.)
Reeves, Frank N., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric signaling system. No. 1,337,482; Apr. 20; v. 273; p. 471.
Reeves, Frank N., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,353,612; Sept. 21; v. 278; p. 467.
Reeves, George C., Oak Park, Ill. Respirator-valve. No. 1,326,966; Jan. 6; v. 270; p. 17.
Reeves, George C., Chicago, Ill., assignor to Dryden Rubber Company. Weather-strip. No. 1,350,883; Aug. 24; v. 277; p. 706.
Reeves, Orwell C., assignor to Toledo Scale Company, Toledo, Ohio. Machine for cutting agates and similar stones. No. 1,342,647; June 8; v. 275; p. 254.
Reeves, Percy, Chicago, Ill. Display and dispensing package. No. 1,348,318; Aug. 3; v. 277; p. 37.
Reeves, William H., Roselle, N. J. Baseball-game apparatus. No. 1,361,616; Dec. 7; v. 281; p. 128.
Re-Fillt Broom Company. (See Neff, Harry D., assignor.)
Refining Products Corporation. (See Mumford, Russell W., assignor.)
Refior, Emil M., *et al.* (See London, Jacob M., assignor.)
Reflecto-Metal Company, The. (See Hancock, Thomas, assignor.)
Refrigerating Specialties Company. (See Hansen, Charles C., assignor.)
Refrigerator Car Equipment Co. (See Woodward, Charles H., assignor.)
Regan, John, New Bedford, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Warp stop-motion. (Reissue.) No. 14,829; Mar. 30; v. 272; p. 887.
Regan, John, New Bedford, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Warp stop-motion. No. 1,352,529; Sept. 14; v. 278; p. 192.
Regan, John, New Bedford, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Warp-stop-motion clamp. No. 1,355,909; Oct. 19; v. 279; p. 379.
Regan, John P. (See Young, H. M., and Regan.)
Regan, Julia M., Darby, Pa. Garment-supporter. No. 1,353,070; Sept. 14; v. 278; p. 300.
Regan Safety Devices Company. (See Shaver, Archibald G., assignor.)
Regan, William J., assignor to The McConway & Torley Company, Pittsburgh, Pa. Draft-rigging for railway-cars. No. 1,339,714; May 11; v. 274; p. 275.
Regan, William J., assignor to The McConway & Torley Company, Pittsburgh, Pa. Draft-rigging. No. 1,346,556; July 13; v. 276; p. 304.
Regan, William J., assignor to The McConway & Torley Company, Pittsburgh, Pa. Railway draft appliance. No. 1,362,043; Dec. 14; v. 281; p. 259.
Regan, William N., Jersey City, N. J. Stove. No. 1,360,795; Nov. 30; v. 280; p. 923.
Regar, Harold D., Reading, Pa. Carbon-holder. No. 1,362,140; Dec. 14; v. 281; p. 279.
Regentrecht, Bernard, Rockdale, Tex. Shock-absorber. No. 1,329,678; Feb. 3; v. 271; p. 62.
Regenstein, Joseph, Chicago, Ill. Door-panel and the like. No. 1,351,488; Aug. 31; v. 277; p. 888.
Regentz, William A., San Francisco, Calif. Portable folding bed. No. 1,333,823; Mar. 16; v. 272; p. 424.
Reggio, Jules J., New Orleans, La. Trolley-pole. No. 1,358,574; Nov. 9; v. 280; p. 329.
Regina Company, The. (See Jackson, Walter W., assignor.)
Regina Company, The. (See Jackson and Paulson, assignors.)
Regnier, Wilfred L., Dayton, Ohio. Detachable wheel. No. 1,337,271; Apr. 20; v. 273; p. 432.
Reh, Mathew, Salina, Kans. Swinging gate. No. 1,344,820; June 29; v. 275; p. 876.
Rehfuss, Martin O., assignor to John Wanamaker, Philadelphia, Pa. Plate-forming machine. No. 1,341,589; May 25; v. 274; p. 760.
Rehfuss, Martin O., Philadelphia, assignor to United States Chain and Forging Company, Pittsburgh, Pa. Machine for making links for chains. No. 1,360,020; Nov. 23; v. 280; p. 702.
Rehfuss, Martin O., Philadelphia, assignor to United States Chain and Forging Company, Pittsburgh, Pa. Machine for making links for chains. No. 1,360,021; Nov. 23; v. 280; p. 703.
Rehmer, Carl C. (See Chadwick, L. S., and Rehmer.)
Rehrig, William J., Los Angeles, Calif. Apparatus for making wood separators for storage batteries, &c. No. 1,342,925; June 8; v. 275; p. 310.
Reiband, John, Baltimore, Md. Pipe-coupling. No. 1,347,660; July 27; v. 276; p. 638.
Reibin, Fedor K., Robson, British Columbia, Canada, assignor to forty per cent. to R. Kliavin, Seattle, Wash. Automatic valve. No. 1,332,997; Mar. 9; v. 272; p. 209.
Reibin, Fedor K., Robson, British Columbia, Canada, assignor of one-half to S. Mihalkevicz, Middletown, Conn. Ventilator-operating device. No. 1,358,464; Nov. 9; v. 280; p. 307.
Reich, Ernest, assignor to Hill Pump Valve Company, Chicago, Ill. Seal. No. 1,337,985; Apr. 20; v. 273; p. 568.
Reich, Ernest, assignor to The Hill Pump Valve Company, Chicago, Ill. Seal. No. 1,361,903; Dec. 14; v. 281; p. 231.
Reich, Henry C., New York, N. Y. Extension-pedal. No. 1,328,400; Jan. 20; v. 270; p. 383.
Reich, Otto H., Spokane, Wash. Ventilator. No. 1,362,044; Dec. 14; v. 281; p. 260.
Reich, Valdemar F., Pittsburgh, Pa. Hand-tool. No. 1,347,972; July 27; v. 276; p. 700.
Reichard, Willis E. (See Worthington, G. C., and Reichard.)
Reichel, John, assignor to H. K. Mulford Company, Philadelphia, Pa. Producing refined hog-cholera serum. No. 1,335,986; Apr. 6; v. 273; p. 53.
Reichel, Louis J., and W. L. Warner, Chicago, Ill. Locking means for printers' forms. No. 1,330,613; Feb. 10; v. 271; p. 268.
Reichel, Louis J., and W. L. Warner, Chicago, Ill. Locking means for printers' forms. No. 1,339,607; May 11; v. 274; p. 254.
Reichel, Roy C., Detroit, Mich. Intake-manifold heater. No. 1,338,527; Apr. 27; v. 273; p. 738.
Reichelt, Ernst A., Lorquon via Nhill, Victoria, Australia. Combined cultivating and seed and fertilizer sowing implement. No. 1,355,691; Oct. 12; v. 279; p. 297.
Reichert, George M., Milwaukee, Wis. Concrete-form. No. 1,334,677; Mar. 23; v. 272; p. 630.
Reichert, John, Racine, Wis. Calf and colt weaner. No. 1,346,557; July 13; v. 276; p. 305.
Reichman, Harry, and A. R. Spangenberg, Cincinnati, Ohio. Combined package and trash receptacle. No. 1,327,778; Jan. 13; v. 270; p. 229.
Reichmann, Frank J., and J. Press, Chicago, Ill.; said Press assignor to said Reichmann. Telephone instrument. No. 1,347,175; July 20; v. 276; p. 485.

Digitized by Google

Reichold, Ludwig, Pittsfield, Mass., assignor to General Electric Company. Electric fuel-heater. No. 1,328,546; Jan. 20; v. 270; p. 411.
Reid, Albert R. (See Ohliger, L. P., Willson, White, and Reid.)
Reid, Alfred E., *et al.* (See Blankfield, George, assignor.)
Reid, Andrew S. and R., assignors to Reid Brothers Company, Beverly, Mass. Angle-plate. No. 1,338,095; Apr. 27; v. 273; p. 657.
Reid Brothers Company. (See Reid, Andrew S. and R., assignors.)
Reid, Edward M., assignor of one-half to W. H. Baker, Cambria, Va. Oiler. No. 1,340,406; May 18; v. 274; p. 463.
Reid, Harry F., Minneapolis, Minn. Humidifier. No. 1,336,860; Apr. 13; v. 273; p. 279.
Reid, James E., Moorestown, N. J., and C. Kienle, Philadelphia, Pa.; said Kienle assignor to said Reid. Dental instrument. No. 1,335,987; Apr. 6; v. 273; p. 54.
Reid, James H., Newark, N. J., assignor to International Nitrogen Company. Producing carbid. No. 1,327,736; Jan. 13; v. 270; p. 222.
Reid, James H., Newark, N. J., assignor, by mesne assignments, to International Nitrogen Co. Procuring and securing products from carbohydrates. No. 1,327,737; Jan. 13; v. 270; p. 222.
Reid, James H., Newark, N. J., assignor, by mesne assignments, to International Nitrogen Co. Means actuated by alternating electric current for controlling or operating electric furnaces or other mechanisms. No. 1,327,738; Jan. 13; v. 270; p. 222.
Reid, James S., Harrisburg, Ill. Railway-frog. No. 1,348,447; Aug. 3; v. 277; p. 62.
Reid, James W. (See Berry, H. H., and Reid.)
Reid, John. (See Platt, W. O., and Reid.)
Reid, John, New York, N. Y. Furnace-front flareway. No. 1,332,005; Feb. 24; v. 271; p. 619.
Reid, John, New York, N. Y. Furnace-front and valve mechanism therefor. No. 1,333,732; Mar. 16; v. 272; p. 407.
Reid, John, New York, N. Y. Furnace-front air-valve system. No. 1,335,194; Mar. 30; v. 272; p. 789.
Reid, John, New York, N. Y. Furnace-front. No. 1,350,037; Aug. 17; v. 277; p. 496.
Reid, John, New York, N. Y. Furnace-front baffle construction. No. 1,350,468; Aug. 24; v. 277; p. 627.
Reid, John, Jr. (See Berkeley, L. J., and Reid.)
Reid, John E. (See Rogers, T. A., and Reid.)
Reid, Joseph, Gas Engine Company. (See Platt, W. O., and Reid, assignors.)
Reid, Pettis A. and W. V., and J. Kelley, Richmond, Ind.; said W. V. Reid and J. Kelley assignors to said P. A. Reid. Wire-fabric machine. No. 1,344,595; June 22; v. 275; p. 767.
Reid, Robert. (See Reid, Andrew S. and R.)
Reid, Robert, Sanford, Me. Robe-securing device. No. 1,343,847; June 15; v. 275; p. 555.
Reid, Robert M., Colorado Springs, Colo. Mounting for glasses. No. 1,333,575; Mar. 9; v. 272; p. 317.
Reid, Royal G., Brooklyn, N. Y. Toy chime. No. 1,335,855; Apr. 6; v. 273; p. 28.
Reid, Walter V. (See Reid, P. A. and W. V., and Kelley.)
Reid, William, Hamilton, Scotland. Connection with apparatus for tipping wagons. No. 1,340,683; May 18; v. 274; p. 515.
Reid, William, Atlanta, Ga. Sign. No. 1,348,739; Aug. 3; v. 277; p. 117.
Reid, William S. (See Koerner, Charles L., assignor.)
Reider John L., assignor of one-third to H. E. Urban and one-third to W. B. Brown, Pittsburgh, Pa. Side curtain for vehicle-tops. No. 1,363,351; Dec. 28; v. 281; p. 606.
Reidl, John, assignor of one-half to Sam A. Scolaro, Pontiac, Ill. Culvert. No. 1,363,056; Dec. 21; v. 281; p. 509.
Reidy, Garrett J. (See Cook, Marshall, assignor.)
Reiferscheid, William, Chicago, Ill. Radiator. No. 1,344,772; June 29; v. 275; p. 867.
Reifsnyder, James D., assignor to Stokes & Smith Company, Summerdale, Philadelphia, Pa. Machine for sealed wrapped packages. No. 1,352,221; Sept. 7; v. 278; p. 97.
Reifsnyder, James D., and W. A. Weightman, Philadelphia, assignors to Stokes & Smith Company, Summerdale, Philadelphia, Pa. Box-covering machine. No. 1,343,748; June 15; v. 275; p. 536.
Reifsnyder, Joseph H., assignor to The Timken Roller Bearing Company, Canton, Ohio. Manufacturing rollers for roller-bearings and the like. No. 1,357,002; Oct. 26; v. 279; p. 641.
Reigart, Fred G. (See Maclachlan, Angus, assignor.)
Reigh, Jacob. (See Sommer, H. J., and Reigh.)
Reihing, Anthony, East Toledo, Ohio. Telephone-cord. No. 1,336,859; Apr. 13; v. 273; p. 279.
Reiley, Frederick A., Atlantic City, N. J. Ditching-plow. No. 1,356,310; Oct. 19; v. 279; p. 460.
Reilly, Edgar J., Youngstown, and A. C. Nelson, Lakewood, assignors to The William B. Pollock Company, Youngstown, Ohio. Metal-transfer car. No. 1,348,319; Aug. 3; v. 277; p. 38.
Reilly, John F., Somerville, Mass. Tool for severing metal bars. No. 1,331,212; Feb. 17; v. 271; p. 449.
Reilly, John J. and S. W., Columbus, Ohio. Machine for making nut-blanks. No. 1,356,311; Oct. 19; v. 279; p. 460.
Reilly, Joseph J., Newark, N. J. Window-curtain fixture. No. 1,350,336; Aug. 24; v. 277; p. 600.
Reilly, Mabel A., Freeville, N. Y. Book or sheet-music opener. No. 1,345,336; June 29; v. 275; p. 974.
Reilly, Virgil G., *et al.* (See Buckley, Arthur H., assignor.)
Reily, John P., St. Louis, Mo. Insect-escape for screens. No. 1,354,132; Sept. 28; v. 278; p. 615.
Reilly, Michael J., Chicago, Ill. Ironing-machine. No. 1,359,745; Nov. 23; v. 280; p. 648.
Reilly, Sylvester W. (See Reilly, John J. and S. W.)
Reilly, Thomas. (See Mullin, Joseph H., assignor.)
Reim-Thompson Co. (See Bentel, George R., assignor.)
Reimel, Elmer J. (See Hamilton, R., and Reimel.)
Rein, G. H. (See Baumann, Ferdinand P., assignor.)
Reinberger, Paul, Cleveland, Ohio. Roller-supporting device. No. 1,355,910; Oct. 19; v. 279; p. 379.
Reinders, Edward C., Alliance, Nebr. Barge for headers. No. 1,363,617; Dec. 28; v. 281; p. 657.
Reiner, George, New York, N. Y. Wheel. No. 1,333,341; Mar. 9; v. 272; p. 273.
Reiner, Robert, Incorporated. (See De Martin, Celeste, assignor.)
Reinert, Otto. (See Hachmann, Frederick, assignor.)
Reinewald, Ernest W., Ashland, Ohio. Submersible light for fishermen. No. 1,338,528; Apr. 27; v. 273; p. 739.
Reinhard, Norman A., assignor to Henry Likly & Company, Rochester, N. Y. Trunks. No. 1,330,280; Feb. 10; v. 271; p. 206.
Reinhardt, A. E., *et al.* (See Lionne, Ernest, assignor.)
Reinhardt, Christian, and A. Leibundgut, New York, N. Y. Reeling device. No. 1,340,981; May 25; v. 274; p. 643.
Reinhardt, Fannie D., Billings, Okla. Ice-cream freezer. No. 1,346,767; July 13; v. 276; p. 346.
Reinhardt, James H., East Orange, N. J., assignor of one-half to Federal Sugar Refining Company, New York, N. Y. Weighing-machine. No. 1,343,476; June 15; v. 275; p. 481.
Reinhardt, William C., and O. H. Banker, assignors to Racine Tool & Machine Co., Racine, Wis. Portable rail-hacksaw. No. 1,336,443; Apr. 13; v. 273; p. 199.
Reinhold, Frederick A., Jr., Astoria, N. Y. Collar-button. No. 1,348,958; Aug. 10; v. 277; p. 212.
Reinhold, Herman F. (See Bauer, H. R., and Reinhold.)
Reinhold, John J., Marietta, Pa. Insulating wire. No. 1,329,630; Feb. 3; v. 271; p. 53.
Reinhold, Otto F., Maplewood, assignor to Foster-Reinhold Laboratories, Newark, N. J. Aluminum alloy and alloying aluminum. No. 1,362,739; Dec. 21; v. 281; p. 447.
Reinhold, Sharp & Company. (See Sharp, Elmer R., assignor.)
Reininger, Christian C. F., New York, N. Y. Tire-removing tool. No. 1,332,191; Feb. 24; v. 271; p. 653.
Reininger, Henry, New Orleans, La. Barrel-washing machine. No. 1,347,402; July 20; v. 276; p. 530.
Reinker, Christian, Lakewood, Ohio. Gear-remover or pinion-puller. No. 1,352,990; Sept. 14; v. 278; p. 285.
Reinl, Herman, Secaucus, N. J. Sash-lock. No. 1,339,670; May 11; v. 274; p. 267.
Reinl, William, Secaucus, N. J. Antiskid for tires. No. 1,349,295; Aug. 10; v. 277; p. 279.
Reinoehl, Harry K., Defiance, Ohio. Spring-eye protector for automobiles. No. 1,346,682; July 13; v. 276; p. 329.
Reinwald, Paul, Menlo Park, Calif. Platform for window-washers. No. 1,361,184; Dec. 7; v. 281; p. 40.
Reip, Frank A. (See De Dominicis, V., and Reip.)
Reis-Premier Pipe Company. (See Prophet, Robert M., assignor.)
Reisbach, Gustave B., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Contact device. No. 1,328,450; Jan. 20; v. 270; p. 392.
Reischmann, Joseph A., Jr., Milwaukee, Wis. Direction-indicator. No. 1,331,674; Feb. 24; v. 271; p. 556.
Reisenberg, Francis S., New York, N. Y., assignor of one-half to J. L. Sharkey, Hamilton, Ontario, Canada. Portable railway. No. 1,362,141; Dec. 14; v. 281; p. 279.
Reish, Clair L., Pittsburgh, Pa. Tire-clamp. No. 1,345,957; July 6; v. 276; p. 125.
Reisiger, Hugo, Rotterdam, Netherlands. Bench-screw. No. 1,345,403; July 6; v. 276; p. 15.
Reising, Eugene G., East Hartford, Conn. Firearm. No. 1,359,746; Nov. 23; v. 280; p. 648.
Reisinger, Frank F., Evansville, Ind. Running-board structure. No. 1,343,281; June 15; v. 275; p. 443.
Reisinger, George, Rochester, N. Y. Chuck. No. 1,348,740; Aug. 3; v. 277; p. 117.
Reiter, Lues, Providence, R. I. Glove-fastener. No. 1,332,754; Mar. 2; v. 272; p. 111.
Reitzel, George A., St. Louis, Mo. Shoe shining or polishing brush. No. 1,342,971; June 8; v. 275; p. 319.
Rekersdres, Henry, Detroit, Mich. Speed-change indicator for vehicles. No. 1,345,635; July 6; v. 276; p. 60.
Relay Automatic Telephone Company, The. (See Aitken, William, assignor.)
Relay Automatic Telephone Company, The. (See Bygrave, L. C., and Inman.)

Digitized by Google

Relay Automatic Telephone Company. (See Cohen, Bertram S., assignor.)
Relay Automatic Telephone Company, The. (See Ward, F. M., Bygrave, and Herink, assignors.)
Reliance Air Brake Company, The. (See Dukesmith, Frank H., assignor.)
Reliance Manufacturing Co. (See Bears, Daniel S., assignor.)
Relyea, Dewitt C., Coscob, Conn. Opener for glass-topped jars. No. 1,350,180; Aug. 17; v. 277; p. 524.
Remalia, Arthur J., Warren, Ohio. Stepladder. No. 1,337,666; Apr. 20; v. 273; p. 506.
Remané, Hermann, Berlin, Germany. Soldering-iron. No. 1,350,181; Aug. 17; v. 277; p. 524.
Rembert, William E., Humble, Tex. Sample-taking device. No. 1,336,537; Apr. 13; v. 273; p. 217.
Remer, Peter, Milwaukee, Wis., assignor of one-third to A. G. Wackenreuter and one-third to W. S. Shaw, Chicago, Ill. Liming and dehairing hides. No. 1,331,723; Feb. 24; v. 271; p. 565.
Remick, Elmer H. (See Manahan, Michael J., assignor.)
Remington, Alfred A. (See Leeding, E. J., and Remington.)
Remington Arms Company. (See Inglis, Walter E., assignor.)
Remington Arms Company. (See Loomis, Crawford C., assignor.)
Remington Arms Company. (See North, Samuel, assignor.)
Remington, Harvey W., New York, N. Y. Core for molding hollow concrete columns. No. 1,346,844; July 20; v. 276; p. 420.
Remington, Joseph P., assignor to Remington Manufacturing Company, Philadelphia, Pa. Air control for internal-combustion engines. No. 1,328,102; Jan. 13; v. 270; p. 290.
Remington, Joseph P., assignor of one-half to Day and Zimmerman, Philadelphia, Pa. Machine for wrapping confections. No. 1,352,629; Sept. 14; v. 278; p. 212.
Remington Manufacturing Company. (See Remington, Joseph P., assignor.)
Remington Typewriter Company. (See Barr, John H., assignor.)
Remington Typewriter Company. (See Bridgwater, Herbert E., assignor.)
Remington Typewriter Company. (See Carhart, Herbert A., assignor.)
Remington Typewriter Company. (See Casanova, Luis G., assignor.)
Remington Typewriter Company. (See Dodge, Elbert S., assignor.)
Remington Typewriter Company. (See Holden, Joseph B., assignor.)
Remington Typewriter Company. (See Labofish, Charles S., assignor.)
Remington Typewriter Company. (See Phelps, Joseph, assignor.)
Remington Typewriter Company (See Seib, George A., assignor.)
Remington Typewriter Company. (See Smith, Arthur W., assignor.)
Remington Typewriter Company. (See Woodward, Oscar, assignor.)
Remington, Wolcott, Lynn, assignor to Thomson Electric Welding Company, Boston, Mass. Electric metal-working apparatus. No. 1,344,961; June 29; v. 275; p. 902.
Remmen, Jorgen, assignor to George T. Ladd Company, Pittsburgh, Pa. Machine for charging shells. No. 1,346,064; July 6; v. 276; p. 145.
Remmers, Bernhard, Philadelphia, Pa., assignor, by mesne assignments, to Armour Grain Company, Chicago, Ill. Apparatus for preparing potatoes. No. 1,327,254; Jan. 6; v. 270; p. 70.
Rempes, George H., Cleveland, Ohio. Test-clip. No. 1,351,343; Aug. 31; v. 277; p. 860.
Remsberg, Arthur S., Lakewood, assignor to The Chisholm-Moore Mfg. Company, Cleveland, Ohio. Switch for overhead-trolley trackways. No. 1,355,618; Oct. 12; v. 279; p. 283.
Remsberg, Frank C., Santa Ana, Calif. Glass-cutting frame. No. 1,357,474; Nov. 2; v. 280; p. 51.
Remy Electric Company. (See Berdon, A. E., Ringwald, and Gomory, assignors.)
Remy Electric Company. (See Conklin, Oliver F., assignor.)
Remy Electric Company, The. (See Kennington, William O., assignor.)
Remy Electric Company, The. (See Rogers, Samuel, assignor.)
Remy Electric Company. (See Stone, Guy B., assignor.)
Remy, John F., assignor to The Burch Plow Works Co., Crestline, Ohio. Pulverizer. No. 1,331,722; Feb. 24; v. 271; p. 566.
Rena, John. (See Camporini, A., and Rena.)
Renaissance Corset Co. (See Griner, Alvah A., assignor.)
Renard, Charles F., Cormeilles-en-Parisis, France. Resilient hub for vehicle-wheels. No. 1,334,402; Mar. 23; v. 272; p. 579.
Renaud, Eugène Lavergne dit, Montreal, Quebec, Canada. Card-holder for record systems and the like. No. 1,338,790; May 4; v. 274; p. 26.
Renault, Louis. (See Fuchs, Ernest, assignor.)
Rendahl, George A., assignor to D. P. Hogan, Denver, Colo. Oil-baffle for automobile-engines. No. 1,327,779; Jan. 13; v. 270; p. 229.
Rendall, George F., New York, N. Y., assignor to Carbon Products Company. Distillation-retort and separating-tank. No. 1,345,404; July 6; v. 276; p. 15.
Rendano, Emil, Brooklyn, assignor of one-half to E. Rendano and N. Rendano, New York, and one-half to P. J. Forbes, Brooklyn, N. Y. Fastening device. No. 1,328,201; Jan. 13; v. 270; p. 278.
Rendano, Nicholas, *et al.* (See Rendano, Emil, assignor.)
Rendell, Alan W., London, England. Graduated-release device. No. 1,333,937; Mar. 16; v. 272; p. 445.
Rendle, Arthur E., Philadelphia, Pa. Non-slippable sole. No. 1,350,839; Aug. 24; v. 277; p. 699.
Renfro, Albert L., assignor of one-half to W. K. Lee, Bakersfield, Calif. Sack-holder. No. 1,328,690; Jan. 20; v. 270; p. 437.
Renfroe, Robert H. (See Brown and Renfroe.)
Renftle, Lucas, Warren, Ohio. Wrench. No. 1,335,028; Mar. 30; v. 272; p. 758.
Renick, Straud W., Britton, Okla. Stamping device. No. 1,335,398; Mar. 30; v. 272; p. 826.
Renkin, William O., Oradell, N. J., assignor to Quigley Furnace Specialties Co., Inc. Valve. No. 1,329,016; Jan. 27; v. 270; p. 528.
Renkin, William O., Oradell, N. J., assignor to Quigley Furnace Specialties Co., Inc. Valve-operating mechanism. No. 1,329,017; Jan. 27; v. 270; p. 528.
Renkin, William O., Oradell, N. J., assignor to Quigley Furnace Specialties Co., Inc. Apparatus for automatically controlling flowing materials. No. 1,329,018; Jan. 27; v. 270; p. 528.
Renner, Nicholas, Defiance, Ohio. Ventilator. No. 1,342,066; June 1; v. 275; p. 89.
Renner, Nick, Defiance, Ohio. Vehicle-wheel. No. 1,345,506; July 6; v. 276; p. 35.
Renner, William E., Somerville, Mass. Furnace-heating. No. 1,332,684; Mar. 2; v. 272; p. 97.
Rennerfelt, Ture G., Stockholm, Sweden. Stone-crushing machine. No. 1,358,682; Nov. 9; v. 280; p. 350.
Rennerfelt, Ture G., Stockholm, Sweden. Stone-crushing machine. No. 1,363,270; Dec. 28; v. 281; p. 591.
Rennick, Lyle S., assignor to Fred Hartsook Inc., San Francisco, Calif. Automatic timing apparatus for multiple photographic printing. No. 1,361,349; Dec. 7; v. 281; p. 74.
Rennie, George J., Buffalo, N. Y. Rail-block for furnaces. No. 1,341,928; June 1; v. 275; p. 62.
Rennolds, Philip J., New York, N. Y. Tide-water power. No. 1,333,443; Mar. 9; v. 272; p. 292.
Rennolds, Philip J., New York, N. Y. System of generating and distributing power. No. 1,333,444; Mar. 9; v. 272; p. 292.
Reno, Michael J., and A. Scaramella, New Haven, Conn. Crushing-machine. No. 1,353,420; Sept. 21; v. 278; p. 428.
Renois, John J., Corsicana, Tex. Surgical splint. No. 1,346,463; July 13; v. 276; p. 286.
Renovich, Stephen, New York, N. Y. Train-controlling apparatus. No. 1,333,678; Mar. 16; v. 272; p. 397.
Rentfroe, Henry T., *et al.* (See Edgar, Robert A., assignor.)
Renton, James H., Philadelphia, Pa. Cop-making apparatus. No. 1,353,613; Sept. 21; v. 278; p. 467.
Rentz, William C., Atlanta, Ga. Spark-plug. No. 1,337,959; Apr. 20; v. 273; p. 562.
Renwick, Frederick W., Norristown, Pa. Lens-holder for headlights. No. 1,334,924; Mar. 23; v. 272; p. 679.
Renze, Nick R., Connellsville, Pa. Dirigible headlight. 1,354,845; Oct. 5; v. 279; p. 79.
Repass, Charles L., West Pittston, assignor of one-half to H. R. Smith, Scranton, Pa. Shears. No. 1,345,882; July 6; v. 276; p. 109.
Repetto, John, Philadelphia, Pa. Fluid-cock. No. 1,346,977; July 20; v. 276; p. 447.
Repking, Joseph, Effingham, Ill. Operating attachments for tractors. No. 1,358,874; Nov. 16; v. 280; p. 434.
Replogle, Daniel B., Berkeley, Calif. Vacuum-cleaner handle. No. 1,338,791; May 4; v. 274; p. 27.
Replogle, Daniel B., Berkeley, Calif. Pneumatic cleaner. No. 1,345,550; July 6; v. 276; p. 44.
Repony, Daniel, Passaic, N. J., assignor to The Manhattan Rubber Mfg. Company. Clutch-facing. No. 1,341,673; June 1; v. 275; p. 12.
Reppe, Carl J., Winifred, Mont. Mousetrap. No. 1,355,264; Oct. 12; v. 279; p. 215.
Reppe, Sever C., Winifred, Mont. Wire-stretcher. No. 1,337,159; Apr. 13; v. 273; p. 336.
Reppetto, Harvey B., assignor to The Wheeling Stove & Range Company, Wheeling, W. Va. Flexible connection for stoves and the like. No. 1,354,419; Sept. 28; v. 278; p. 673.
Repplier, James M., *et al.*, trustees. (See Milliken, Foster.)
Repsholdt, Soren C., Omaha, Nebr. Traffic-signal tower. No. 1,359,529; Nov. 23; v. 280; p. 605.
Repsholdt, Soren C., Omaha, Nebr. Traffic-signal tower. No. 1,360,796; Nov. 30; v. 280; p. 923.
Republic Carbon Company. (See Kemmer, Frank R., assignor.)

Digitized by Google

Republic Iron and Steel Company. (See Pinger, George C., assignor.)
Republic Metalware Company, The. (See Jensen, Otto H., assignor.)
Republic Tool and Manufacturing Company. (See Clark, D. A., and Lowe, assignors.)
Requa, Richard S., San Diego, Calif. Hollow tile. No. 1,341,071; May 25; v. 274: p. 660.
Requillart, Edouard. (See Contal, C., and Requillart.)
Resch, Charles H., Youngstown, Ohio. Steering-wheel lock for motor-vehicles. No. 1,328,691; Jan. 20; v. 270; p. 488.
Resch, Wilhelm, Binningen, near Basel, assignor to A. Clavel, Basel, Switzerland. Apparatus for dyeing, bleaching, or like treatment of cops. No. 1,335,459; Mar. 30; v. 272; p. 838.
Reschke, William F., Wichita, Kans. Device for extinguishing fires in tanks. No. 1,363,271; Dec. 28; v. 281; p. 591.
Research Corporation. (See Bradley, Linn, assignor.)
Research Corporation. (See Clevenger, G. H., and Caron, assignors.)
Research Corporation. (See Meston, Archibald F., assignor.)
Research Corporation. (See Schmidt and Bradley, assignors.)
Research Corporation. (See Squires, Harold W., assignor.)
Research Corporation. (See Strong, William W., assignor.)
Research Corporation. (See Viets, Floyd H., assignor.)
Research Laboratories Company, The. (See Howlett, Grayle W., assignor.)
Research Laboratory of Chicago. (See McCormack, Harry, assignor.)
Reser, Leroy T. (See Randall, J. E., and Reser.)
Respess, Roland B., New York, N. Y. Composite unwoven fabric and making same. No. 1,355,265; Oct. 12; v. 279; p. 215.
Restivo, Anthony J. N., New York, N. Y. Alarm device. No. 1,357,187; Oct. 26; v. 279; p. 676.
Reston, Henry P., Rockford, Ill. Necktie-fastener. No. 1,358,465; Nov. 9; v. 280; p. 307.
Restucci, Giuseppe, Naples, Italy. Device for superheating steam. No. 1,348,895; Aug. 10; v. 277; p. 200.
Retherford Brothers Company. (See Ryan, T. L., and Sacksteder, assignors.)
Rex Manufacturing Company. (See Hull, Matthew R., assignor.)
Reton, John, Stevens Point, Wis. Hydraulic transmission mechanism. No. 1,343,749; June 15; v. 275; p. 536.
Retterer, Fred, Harpster, Ohio. Automobile-chock. No. 1,353,541. Sept. 21; v. 278; p. 452.
Reule, Charles A., Cincinnati, Ohio. Belt-buckle. No. 1,346,795; July 13; v. 276; p. 353.
Reus Bros. Company, The. (See Morrow, Samuel W., assignor.)
Reuschline, George L., Philadelphia, Pa. Apparatus for making can-ice. No. 1,360,315; Nov. 30; v. 280; p. 829.
Reuter, Earl T., and W. A. Skinner, Manchester, N. H. Crimping-machine. No. 1,345,240; June 20; v. 275; p. 955.
Reuter, George J., Atlanta, Ga. Rubber heel. No. 1,356,113; Oct. 19; v. 279; p. 420.
Reuther, Frank, *et al.* (See Leins, Karl, assignor.)
Reutter, William C., Philadelphia, Pa. Wind controls for aeroplanes. No. 1,354,687; Oct. 5; v. 279; p. 48.
Reuzé, Désiré M., Rennes, France. Fishing-reel. No. 1,341,519; May 25; v. 274; p. 747.
Revega, Efrem, Detroit, Mich. Match-box. No. 1,342,695; June 8; v. 275; p. 264.
Revere Rubber Company. (See Ballard, James B., assignor.)
Revere Rubber Company. (See Brogden, Joseph, T., assignor.)
Revere Rubber Company. (See Davis, Laurence R., assignor.)
Revere Rubber Company. (See Fisher, George F., assignor.)
Revere Rubber Company. (See Kent, William J., assignor.)
Revermann, Gustaaf A. W., Utrecht, Netherlands. Mechanical movement. No. 1,362,266; Dec. 14; v. 281; p. 304.
Revert, Albert, Oakland, Calif. Composite railway-tie. No. 1,346,609; July 13; v. 276; p. 315.
Revolvator Company. (See Boehck, William E., assignor.)
Rew, William O., assignor of one-half to C. E. Gray, Eureka, Calif. Apparatus for treating liquids. No. 1,336,655; Apr. 13; v. 273; p. 239.
Rex Company, The. (See Helenbolt, George S., assignor.)
Rex, Robert F., Andover, Ohio. Folding floor for railway-cars. No. 1,351,125; Aug. 31; v. 277; p. 815.
Rex Typewriter Company. (See Henry, Hubert K., assignor.)
Rey, Henri D., Avarua, Island of Rarotonga, Cook Islands, New Zealand. Vehicle-wheel. No. 1,333,679; Mar. 16; v. 272; p. 397.
Rey, Henri D., Avarua, Island of Rarotonga, Cook Islands, New Zealand. Vehicle-wheel. No. 1,333,680; Mar. 16; v. 272; p. 398.
Rey, Jean, Paris, France. Time apparatus for use with submarine mines. No. 1,358,466; Nov. 9; v. 280; p. 308.
Reyburn, John R., Fairfield, assignor to American Chain Company, Incorporated, Bridgeport, Conn. Chain tire-grip. No. 1,339,979; May 11; v. 274; p. 325.
Reyburn, John R., Bridgeport, Conn., assignor to American Chain Company, Inc. Tire-grip tightener. No. 1,340,184; May 18; v. 274; p. 421.
Reyes, Lorenzo, San Francisco, Calif. Condiment-holder. No. 1,330,720; Feb. 10; v. 271; p. 288.
Reymann, Joseph F., assignor to Solomon Himmel, Baltimore, Md. Door for display-cabinets. No. 1,355,692; Oct. 12; v. 279; p. 297.
Reynard, Leonie S., London, England. Wearing-apparel, particularly relating to gowns, dresses, coats, and the like. No. 1,351,537; Aug. 31; v. 277; p. 698.
Reynolds, Albert, San Jose, Calif. Packaging-machine. No. 1,359,429; Nov. 16; v. 280; p. 540.
Reynolds, Albert, San Jose, Calif. Fish-cleaning machine. No. 1,362,510; Dec. 14; v. 281; p. 350.
Reynolds, Alfred I., executor. (See Soucy, Adelard E., assignor.)
Reynolds, Arthur T., New York, N. Y. Upholstering. No. 1,349,629; Aug. 17; v. 277; p. 418.
Reynolds, Arthur W., Newton, Conn. One-horse sulky-cultivator. No. 1,339,864; May 11; v. 274; p. 303.
Reynolds, Arthur W., Newtown, Conn. Tractor-harrow-operating mechanism. No. 1,341,824: June 1; v. 275; p. 42.
Reynolds, Arthur W., assignor of one-half to E. Benedict, Newtown, Conn. Tractor-plow. No. 1,363,755; Dec. 28; v. 281; p. 684.
Reynolds, Bruce A. (See Reynolds, William T. and B. A.)
Reynolds, Charles D., Gretna, Va. Flue-support. No. 1,343,279; June 15; v. 275; p. 443.
Reynolds, Charles H., Hermosa Beach, Calif. Ball-throwing and exercising device. No. 1,345,241; June 29; v. 275; p. 955.
Reynolds, Christopher, New York, N. Y. Non-skid and extra-torque automobile equipment. No. 1,334,923; Mar. 23; v. 272; p. 679.
Reynolds, Delbert J., Minneapolis, Minn., assignor to J. W. De Camp, Blackwell, Okla. Casket-panel. No. 1,343,280; June 15; v. 275; p. 443.
Reynolds, Edgar T., Brooklyn, N. Y. Riveting apparatus. No. 1,332,519; Mar. 2; v. 272; p. 66.
Reynolds, Edwin, Vineland, N. J. Perforating attachment for cans. No. 1,356,220; Oct. 19; v. 279; p. 442.
Reynolds Engineering Company. (See Brown, Harold, assignor.)
Reynolds, Ernest C. (See Bernath, J. H., and Reynolds.)
Reynolds, Frank H., Sioux City, Iowa, assignor, by mesne assignments, to Ideal Removable Body Company, Chicago, Ill. Truck. No. 1,341,197; May 25; v. 274; p. 685.
Reynolds, George A., Indianapolis, Ind. Rotary gas-engine construction. No. 1,345,808; July 6; v. 276; p. 94.
Reynolds, George L., Boston, Mass., assignor to The Phonoharp Company, East Boston, Mass. Keyed zither. No. 1,341,072; May 25; v. 274; p. 660.
Reynolds, Harry A., Chicago, Ill. Automobile starting device. No. 1,330,092; Feb. 10; v. 271; p. 171.
Reynolds, Henry S., Brooklyn, N. Y. Sput for metallic receptacles. No. 1,332,686; Mar. 2; v. 272; p. 98.
Reynolds, Henry S., Brooklyn, N. Y. Sput for metallic receptacles. No. 1,332,687; Mar. 2; v. 272; p. 98.
Reynolds, Howard, assignor to R. Hoe and Co., New York, N. Y. Trimming and finishing mechanism. No. 1,353,668; Sept. 21; v. 278; p. 479.
Reynolds, Isaac A., Pittsboro, Ind. Fencepost. No. 1,334,053; Mar. 16; v. 272; p. 468.
Reynolds, James J. (See Ashenhurst, Harold S., assignor.)
Reynolds, John J., Rantoul, Ill. Antijounce-spring construction. No. 1,351,968; Sept. 7; v. 278; p. 51.
Reynolds, John N., Greenwich, Conn. Indicator for flying-machines. No. 1,351,538; Aug. 31; v. 277; p. 899.
Reynolds, John N., Greenwich, Conn., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange apparatus. No. 1,337,325; Apr. 20; v. 273; p. 442.
Reynolds, John N., Greenwich, Conn., and J. F. Hearn, Passaic, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Automatic switch. No. 1,337,794; Apr. 20; v. 273; p. 530.
Reynolds, John N., Greenwich, Conn., and J. F. Hearn, Passaic, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Cross-bar switch. No. 1,339,001; May 4; v. 274; p. 65.
Reynolds, John N., Greenwich, Conn., and F. A. Stearn, Paterson, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,340,982; May 25; v. 274; p. 643.
Reynolds, Joseph N., Atlantic, Iowa. Hand-covering. No. 1,346,683; July 13; v. 276; p. 329.
Reynolds, Joseph T. (See Williams, Eddie C., assignor.)
Reynolds, Joy S., assignor to Reynolds Torch Manufacturing Company, Seattle, Wash. Oxyacetylene-torch for cutting tubes. No. 1,345,242; June 29; v. 275; p. 956.
Reynolds, Joy S., assignor to Reynolds Torch Manufacturing Company, Seattle, Wash. Oxyacetylene-torch for cutting tubes. No. 1,352,381; Sept. 7; v. 278; p. 128.

Digitized by Google

Reynolds, Marvin C., Chicago, Ill. Barrel-emptying machine. No. 1,357,003; Oct. 26; v. 279; p. 641.
Reynolds, Mary J., St. Joseph, Mo. Hoisting and loading mechanism. No. 1,337,667; Apr. 20; v. 273; p. 506.
Reynolds, Morley P., Cleveland Heights, assignor to The W. S. Tyler Company, Cleveland, Ohio. Method of and apparatus for screening materials. No. 1,332,685; Mar. 2; v. 272; p. 97.
Reynolds, Morley P., assignor to The W. S. Tyler Company, Cleveland, Ohio. Screening apparatus. No. 1,333,219; Mar. 9; v. 272; p. 250.
Reynolds, Morley P., Cleveland Heights, assignor to The W. S. Tyler Company, Cleveland, Ohio. Screen No. 1,333,220; Mar. 9; v. 272; p. 250.
Reynolds, Philip E., Dunellen, N. J. Jet or rain-type condenser. No. 1,358,395; Nov. 9; v. 280; p. 293.
Reynolds, Philip M., and A. R. Boling, San Francisco, Calif. Dump-body. No. 1,362,819; Dec. 21; v. 281; p. 463.
Reynolds, R. J., Tobacco Company. (See Crouch, Edward L., assignor.)
Reynolds, R. J., Tobacco Company. (See Richter, Hans F., assignor.)
Reynolds, Reginald, Riverside, Conn. Thread package or holder. No. 1,343,934; June 22; v. 275; p. 637.
Reynolds, Richard S., Louisville, Ky. Receptacle. No. 1,358,875; Nov. 16; v. 280; p. 434.
Reynolds, Robert R. (See Cooper, McKee, assignor.)
Reynolds, Robert R. (See Park, James M., assignor.)
Reynolds Torch Manufacturing Company. (See Reynolds, Joy S., assignor.)
Reynolds, William B., Roundup, Mont. Dump-car. No. 1,327,255; Jan. 6; v. 270; p. 70.
Reynolds, William J., assignor of one-fourth to W. B. Buford, Nicholasville, Ky. Hemp-brake. No. 1,331,526; Feb. 24; v. 271; p. 528.
Reynolds, William T. and B. A., Port Arthur, Tex. Dynamo-electric machine. No. 1,349,100; Aug. 10; v 277; p. 240.
Reyoum, Orley C. (See Putnam, F. A., and Reyoum.)
Reyrolle, A., and Company. (See Clothier, Henry W., assignor.)
Reznor, George F., Mercer, Pa. Punching-machine. No. 1,358,328; Nov. 9; v. 280; p. 379.
Rhein, Lisbeth E. V. (See Rhein, Meyer L., assignor.) (Reissue.)
Rhein, Meyer L., New York, N. Y. Gage for dental and surgical instruments. No. 1,327,114; Jan. 6; v. 270; p. 44.
Rhein, Meyer L., assignor to L. E. V. Rhein, New York, N. Y. Dentifrice. (Reissue.) No. 14,961; Oct. 19; v. 279; p. 497.
Rheinberger, Alois J., New York, N. Y. Shine-removing brush. No. 1,359,104; Nov. 16; v. 280; p. 476.
Rhine, Marvin, Cambridge, Minn. Tractor attachment. No. 1,358,329; Nov. 9; v. 280; p. 279.
Rhines, George, assignor to Allith Prouty Company, Danville, Ill. Door-hanger. No. 1,351,062; Aug. 31; v. 277; p. 804.
Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Shaft-bearing construction for warpers. No. 1,328,451; Jan. 20; v. 270; p. 392.
Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Filling-replenishing loom. No. 1,328,452; Jan. 20; v. 270; p. 393.
Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Loom-seat. No. 1,329,546; Feb. 3; v. 271; p. 38.
Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Filling-end catcher for looms. No. 1,331,675; Feb. 24; v. 271; p. 557.
Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Yarn-chain trumpet. No. 1,338,329; Apr. 27; v. 273; p. 702.
Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,339,002; May 4; v. 274; p. 65.
Rhoades, Alonzo E., Hopedale, assignor to Draper Corporation, Hopedale, Mass. Friction-clutch pulley. No. 1,340,559; May 18; v. 274; p. 492.
Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Filling-replenishing loom. No. 1,341,999; June 1; v. 275; p. 75.
Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Automatic filling-replenishing loom. No. 1,342,573, June 8; v. 275; p. 241.
Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Terry-loom. No. 1,341,929; June 1; v. 275; p. 62.
Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Pawl-and-ratchet mechanism. No. 1,347,661; July 27; v. 276; p. 638.
Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Folding seat. No. 1,348,375; Aug. 3; v. 277; p. 48.
Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Warp stop-motion for looms. No. 1,350,113; Aug. 17; v. 277; p. 511.
Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Automatic filling-replenishing loom. No. 1,351,188; Aug. 31; v. 277; p. 828.
Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Automatic filling-replenishing loom. No. 1,351,189; Aug. 31; v. 277; p. 828.
Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Automatic filling-replenishing loom. No. 1,351,190; Aug. 31; v. 277; p. 828.
Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Lay-rock-shaft bearing. No. 1,362,122; Dec. 14; v. 281; p. 275.
Rhoades, Philip F., New York, N. Y., assignor of one-third to W. M. Welling, Long Valley, N. J. Winding-machine. No. 1,353,269; Sept. 21; v. 278; p. 898.
Rhoads, Thomas H. (See Ayres, E. B., and Rhoads.)
Rhode Island Lace Works. (See Dalby, John, assignor.)
Rhodes, Albert C., assignor to Draper Corporation, Hopedale, Mass. Furnace. No. 1,336,980; Apr. 13; v. 273; p. 302.
Rhodes, Albert T., Worcester, Mass. Pavement. No. 1,348,959; Aug. 10; v. 277; p. 212.
Rhodes, Austin D., Waltham, Mass., assignor to American Lacing Hook Co. Gage for positioning sheet material. No. 1,328,764; Jan. 20; v. 270; p. 451.
Rhodes, Benjamin W., Eagle Rock, N. C. Tobacco-truck. No. 1,357,117; Oct. 26; v. 279; p. 664.
Rhodes, Charles J. (See Webb, T. H., and Rhodes.)
Rhodes, George I., Glen Ridge, and H. V. Coes, Montclair, N. J. Process and apparatus for conveying and treating materials. No. 1,350,837; Aug. 24; v. 277; p. 600.
Rhodes, Jay B. (See Moats, O. E., Rhodes, and Benbow.)
Rhodes, Jay B., Kalamazoo, Mich., assignor to Western Wheeled Scraper Company, Aurora, Ill. Dump-car. No. 1,357,251; Nov. 2; v. 280; p. 10.
Rhodes, Jay B., Kalamazoo, Mich., assignor to Western Wheeled Scraper Company, Aurora, Ill. Dump-car. No. 1,361,904; Dec. 14; v. 281; p. 231.
Rhodes, John E., Dallas, Tex. Demountable rim. No. 1,338,630; Mar. 16; v. 272; p. 388.
Rhodes, Lillian M. and W. A., New York, N. Y. Incense-burner and lamp. No. 1,357,824; Nov. 2; v. 280; p. 119.
Rhodes, Marcus H., Coleman, Ga. Electric time-switch. No. 1,353,850; Sept. 28; v. 278; p. 558.
Rhodes, Wilbert C., East Rochester, N. H. Knitting-needle holder. No. 1,344,821; June 29; v. 275; p. 876.
Rhodes, William A. (See Rhodes, Lillian M. and W. A.)
Rhodes, Wright, Manchester, England. Cutting implement. No. 1,360,797; Nov. 30; v. 280; p. 923.
Rhodin, Jacob F., Highland Park, Mich. Illuminating apparatus. No. 1,341,674; June 1; v. 275; p. 12.
Rhomberg, Joseph H., Dubuque, Iowa. Plow. No. 1,335,195; Mar. 30; v. 272; p. 789.
Rhotanium Company, The. (See Fahrenwald, Frank A., assignor.)
Rial, Lee, and W. Hebern; said Hebern assignor of one-fourth to E. J. McLaughlin and one-fourth to J. F. Sullivan, San Francisco, Calif. Lock-cover securing means. No. 1,358,654; Nov. 9; v. 280; p. 344.
Ribbe, François, Mauriac, and P. Dhé, Paris, France. Construction of monolithic structures of basalt. No. 1,331,377; Feb. 17; v. 271; p. 480.
Ricardo, Harry R., London, England. Lubricating mechanism. No. 1,328,015; Jan. 13; v. 270; p. 273.
Ricardo, Harry R., London, England. Balancing of reciprocating engines No. 1,342,648; June 8; v. 275; p. 254.
Ricardo, Harry R., London, England. Means for heating the charges in internal-combustion engines. No. 1,342,869; June 8; v. 275; p. 299.
Ricardo, Harry R., London, England. Piston for internal-combustion engines. No. 1,346,845; July 20; v. 276; p. 420.
Riccio, Pasquale A., Brooklyn, N. Y. Foot-operated valve. No. 1,329,209; Jan. 27; v. 270; p. 564.
Riccio, Pasquale A., Brooklyn, N. Y. Fuse. No. 1,355,779; Oct. 12; v. 279; p. 313.
Rice, Anson S., Brooklyn, assignor to Duparquet, Hout & Moneuse, New York, N. Y. Coffee-urn. No. 1,343,848; June 15; v. 275; p. 556.
Rice, Anson S., Brooklyn, assignor to Duparquet, Hout & Moneuse, New York, N. Y. Roll-heating device. No. 1,343,849; June 15; v. 275; p. 556.
Rice, Arlo E., assignor of one-half to W. Getty, Amboy, Minn. Agricultural machines. No. 1,357,902; Nov. 2; v. 280; p. 134.
Rice, Aubrey L., assignor of one-half to F. W. Huestis, New York, N. Y. Truck-loading device. No. 1,354,688; Oct. 5; v. 279; p. 48.
Rice, Chester S., Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 1,337,096; Apr. 13; v. 273; p. 324.
Rice, Chester W., Schenectady, N. Y., assignor to General Electric Company. System for amplification of small currents. No. 1,334,118; Mar. 16; v. 272; p. 480.
Rice, Clara M., Aberdeen, S. D. Bottle-cap. No. 1,350,238; Aug. 17; v. 277; p. 535.
Rice, Cyrus W., assignor to Chemo-Mechanical Water Improvement Company, Philadelphia, Pa. Making fertilizer from city and like waste. No. 1,348,320; Aug. 3; v. 277; p. 38.
Rice, Duncan, Aberdeen, Scotland. Toy. No. 1,331,941; Feb. 24; v. 271; p. 607.

Digitized by Google

Rice, Edward I., Syracuse, N. Y. Self-canceling coupon. 1,330,217; Feb. 10; v. 271; p. 195.
Rice, Frank E., assignor to American Tap Bush Co., Detroit, Mich. Tap-attaching thimble. No. 1,329,141; Jan. 27; v. 270; p. 552.
Rice, Frank L., Chicago, Ill., assignor to J. B. Clow & Sons. Radiator. No. 1,342,509; June 8; v. 275; p. 228.
Rice, George L., Chicago, Ill., assignor to International Harvester Company. Twine ball. No. 1,340,254; May 18; v. 274; p. 434.
Rice, George L., Chicago, Ill., assignor, by mesne assignment, to International Harvester Company. Twine ball. No. 1,340,837; May 18; v. 274; p. 544.
Rice, George L., Chicago, Ill., assignor to International Harvester Company. Spinning-machine. No. 1,343,230; June 15; v. 275; p. 434.
Rice, George W., Twin Falls, Idaho. System of irrigation-pipes. No. 1,336,048; Apr. 6; v. 273; p. 65.
Rice, Henry L., Redlands, Calif. Printer's gage. No. 1,333,576; Mar. 9; v. 272; p. 317.
Rice, Henry M., Coal Creek, Tenn. Toy pistol. No. 1,356,559; Oct. 26; v. 279; p. 554.
Rice, Jacob M. (See Aiken, Frank W., assignor.)
Rice, Joel A. (See Rice, Joel T., J. A., and R. A.)
Rice, Joel T., J. A., and R. A., New York, N. Y. Anti-friction-bearing. No. 1,338,868; May 4; v. 274; p. 40.
Rice, John A., San Francisco, Calif. Centrifugal ore-separator. No. 1,344,519; June 22; v. 275; p. 752.
Rice, Joseph M., Missoula, Mont. Signal device for motor-vehicles. No. 1,340,292; May 18; v. 274; p. 441.
Rice, Joseph M., F. A. Joseph, and A. D. Rupp, New Haven, Conn., assignors to L. Candee & Company. Rubber footwear and method of manufacturing the same. No. 1,349,296; Aug. 10; v. 277; p. 279.
Rice, K. B., and R. E. Muffly; said Muffly assignor of one-third of his right to said Rice, Canton, Ohio. Demountable rim. No. 1,355,166; Oct. 12; v. 279; p. 195.
Rice, Langley H., Memphis, Tenn. Railroad-car door. No. 1,355,693; Oct. 12; v. 279; p. 297.
Rice, Lewis C., Fort Wayne, Ind. Machine for recovering essential oils from citrus fruits. No. 1,341,341; May 25; v. 274; p. 712.
Rice, Merritt, Colchester, Ill. Method and device for producing plates for artificial teeth. No. 1,343,935; June 22; v. 275; p. 638.
Rice, Nelson D., Yankee, N. Mex. Headlight-controlling mechanism. No. 1,337,849; Apr. 20; v. 273; p. 541.
Rice, Orrin, Los Angeles, Calif., assignor to U. S. Grant Hinton, Providence, R. I. Air-control mechanism for carburetors. No. 1,337,326; Apr. 20; v. 273; p. 442.
Rice, Oscar J., Libby, Mont. Canvas-adjuster. No. 1,347,121; July 20; v. 276; p. 474.
Rice, Otis D., Winthrop, Mass. Method of and apparatus for drying material. No. 1,328,897; Jan. 27; v. 270; p. 506.
Rice, Percy F., Tustin, assignor of one-third to R. R. Thomas, Los Angeles, Calif. Throttle control for engines. No. 1,330,986; Feb. 17; v. 271; p. 408.
Rice, Pincus, New York, N. Y. Calendar. No. 1,350,114; Aug. 17; v. 277; p. 511.
Rice, Reynold J., Waterloo, Iowa. Wire-twisting machine. No. 1,336,159; Apr. 6; v. 273; p. 86.
Rice, Richard H., Lynn, Mass., assignor to General Electric Company. Centrifugal compressor. No. 1,350,941; Aug. 24; v. 277; p. 718.
Rice, Royal A. (See Rice, Joel T., J. A., and R. A.)
Rice, Walter J. (See Fox, A. H., and Rice.)
Rice, William, New York, N. Y. Fireproof film-reel. No. 1,339,366; May 4; v. 274; p. 132.
Rice, William E., Bolivar, Mo. Adjustment for chiropractic tables. No. 1,360,580; Nov. 30; v. 280; p. 881.
Rich, Ambrose, Stamford, Conn. Antiskid device. No. 1,335,460; Mar. 30; v. 272; p. 838.
Rich, Charles A., assignor to Brown and Sharpe Manufacturing Company, Providence, R. I. Milling-machine. No. 1,355,167; Oct. 12; v. 279; p. 195.
Rich, Charles C., Cranston, R. I. Emergency draft-coupling. No. 1,357,651; Nov. 2; v. 280; p. 85.
Rich, Charles C., Cranston, R. I. Emergency draft-coupling. No. 1,357,652; Nov. 2; v. 280; p. 85.
Richard, Charles D., New York, N. Y. Chassis-odometer. No. 1,357,422; Nov. 2; v. 280; p. 42.
Rich, Chester A., assignor to The Rich Pump Company, Cincinnati, Ohio. Ladder. No. 1,353,270; Sept. 21; v. 278; p. 399.
Rich, Edward P., Chicago, Ill. Heating system. No. 1,338,961; May 4; v. 274; p. 57.
Rich, George R., Battle Creek, Mich. Tappet for internal-combustion engines. No. 1,339,421; May 11; v. 274; p. 218.
Rich, James E., Boston, assignor to The Federal Corporation, Westfield, Mass. Spark-plug. No. 1,347,874; July 27; v. 276; p. 681.
Rich, James E., Springfield, assignor to Liberty Ignition Company, Boston, Mass. Farm implement. No. 1,351,063; Aug. 31; v. 277; p. 804.
Rich, John L., Hobart, N. Y. Card-index-filing system. No. 1,361,494; Dec. 7; v. 281; p. 104.
Rich Pump Company, The. (See Rich, Chester A., assignor.)
Rich, Ralph E. (See Ladd, J. W. B., and Rich.)
Rich, Walter E., Whitehall, N. Y. Automatic grease-cup. No. 1,357,082; Oct. 26; v. 279; p. 657.
Richard Auto Mfg. Company, The. (See Richard, François.)
Richard, Charles D., New York, N. Y. Hub-odometer. No. 1,326,967; Jan. 6; v. 270; p. 17.
Richard, Charles D., New York, N. Y. Hub-odometer. No. 1,354,003; Sept. 28; v. 278; p. 588.
Richard, Charles D., New York, N. Y. Mileage-register. No. 1,362,267; Dec. 14; v. 281; p. 304.
Richard, François, assignor to The Richard Auto Mfg. Company, Cleveland, Ohio. Headlight. No. 1,328,692; Jan. 20; v. 270; p. 438.
Richard, François, assignor to The Richard Auto Mfg. Company, Cleveland, Ohio. Torque-tube structure. No. 1,330,550; Feb. 10; v. 271; p. 256.
Richard, François, assignor to The Richard Auto Mfg. Company, Cleveland, Ohio. Starting appliance. No. 1,331,168; Feb. 17; v. 271; p. 441.
Richard, François, assignor to The Richard Auto Mfg. Company, Cleveland, Ohio. Rear-axle construction. No. 1,337,411; Apr. 20; v. 273; p. 458.
Richard, François, and F. M. Brady, Cleveland, Ohio. Plastic composition. No. 1,329,094; Jan. 27; v. 270; p. 543.
Richard, François, assignor to The Richard Auto Mfg. Co., Cleveland, Ohio. Oiling device. No. 1,348,664; Aug. 3; v. 277; p. 104.
Richard, Joseph, Montreal, Quebec, Canada. Composition paint for leather. No. 1,346,846; July 20; v. 276; p. 420.
Richard, Leroy L., Coalinga, Calif. Pipe and casing tongs. No. 1,351,217; Aug. 31; v. 277; p. 834.
Richard, Maurice L. J., Quebec, Quebec, Canada. Toy. No. 1,344,451; June 22; v. 275; p. 739.
Richard, Mordecai W., New York, and E. Carlson, Yonkers, N. Y. Discharging device for fluids. No. 1,332,520; Mar. 2; v. 272; p. 67.
Richard, Ralph G. (See Karg, Ernest, assignor.)
Richards, Albert J., assignor of one-half to A. C. De Nisson, Seattle, Wash. Vaporizer. No. 1,338,398; Apr. 27; v. 273; p. 714.
Richards, Bernard A., Cleveland, Ohio. Block-molding machine. No. 1,355,619; Oct. 12; v. 279; p. 283.
Richards, Bert D., Gallup, N. Mex. Cranking device for automobiles. No. 1,334,168; Mar. 16; v. 272; p. 489.
Richards, Brayton G., Chicago, Ill. Folding box. No. 1,335,128; Mar. 30; v. 272; p. 777.
Richards, Brayton G., Chicago, Ill. Toy. No. 1,350,338; Aug. 24; v. 277; p. 600.
Richards, Brayton G., Chicago, Ill., assignor to Jacques Rousso, Los Angeles, Calif. Towel-rack. No. 1,353,271; Sept. 21; v. 278; p. 399.
Richards, Charles R. (See Fetters, N. C., and Richards.)
Richards, George, Westminster, London, England. Means applicable for use in milling screw-threads. No. 1,339,223; May 4; v. 274; p. 106.
Richards, George, assignor to The Richards Thread Milling Machine Company (1918) Limited, Westminster, London, England. Machine for backing off the teeth of hobs for cutting screw threads. No. 1,355,780; Oct. 12; v. 279; p. 314.
Richards, George, assignor to The Richards Thread Milling Machine Company, (1918) Limited, Westminster, London, England. Means applicable for use in milling screw-threads. No. 1,361,098; Dec. 7; v. 281; p. 23.
Richards, George A., Pueblo, Colo. Charge-forming device for internal-combustion engines. No. 1,345,507; July 6; v. 276; p. 35.
Richards, Harry D., San Francisco, Calif. Cableway. No. 1,347,758; July 27; v. 276; p. 658.
Richards, Harry S., *et al.* (See Brueggeman, Frank, assignor.)
Richards, Harry W., and V. P. Ford, Baltimore, Md. Automatic train-controlling device. No. 1,330,007; Feb. 3; v. 271; p. 123.
Richards, Henry J., Brooklyn, N. Y. Telephone attachment. No. 1,334,319; Mar. 23; v. 272; p. 563.
Richards, Horace J., Watervliet, N. Y. Window-shade supporter. No. 1,338,591; Apr. 27; v. 273; p. 750.
Richards, Horace J., Watervliet, N. Y. Thermometer-holder. No. 1,339,288; May 4; v. 274; p. 117.
Richards, James E., Horton township, Renfrew county, Ontario, Canada. Shell. No. 1,350,339; Aug. 24; v. 277; p. 601.
Richards, Jesse T., Warrington, Fla. Shock-absorber. No. 1,348,581; Aug. 3; v. 277; p. 87.
Richards, John M., Beaver Falls, Pa. Milling-cutter. No. 1,345,636; July 6; v. 276; p. 60.
Richards, John W., Somerville, Mass. Collapsible spring cot-bed. No. 1,330,901; Feb. 17; v. 271; p. 391.
Richards, John W., Ralston, Ky. Rat-trap. No. 1,339,135; May 4; v. 274; p. 91.
Richards, John W., Ralston, Ky. Controller. No. 1,363,055; Dec. 21; v. 281; p. 509.
Richards, Lorenzo, *et al.* (See Kemper, Marie, assignor.)
Richards, Mary E., Santa Cruz, Calif. Bed attachment. No. 1,359,430; Nov. 16; v. 280; p. 541.
Richards, Oscar B. (See Swarts and Richards.)
Richards, Robert H., Jamaica Plain, Mass. Concentrating ores. No. 1,359,105; Nov. 16; v. 280; p. 476.

Digitized by Google

Richards, Thomas E., London, England. Structure. No. 1,349,980; Aug. 17; v. 277; p. 485.
Richards, Thomas E., London, England. Structure. No. 1,350,289; Aug. 17; v. 277; p. 544.
Richards Thread Milling Machine Company (1918), The. (See Hardingham, George G. M., assignor.)
Richards Thread Milling Machine Company, The. (See Richards, George, assignor.)
Richards-Wilcox Manufacturing Company. (See Phillips, Ellis J. G., assignor.)
Richards, Willard F., Lancaster, assignor to Gould Coupler Company, New York, N. Y. Spring closing and holding device for car-journal-box lids. No. 1,335,297; Mar. 30; v. 272; p. 808.
Richards, Willard F., Lancaster, assignor to Gould Coupler Co., New York, N. Y. Journal-box. No. 1,335,298; Mar. 30; v. 272; p. 808.
Richards, Willard F., Lancaster, assignor to Gould Coupler Company, New York, N. Y. Journal-box. No. 1,335,299; Mar. 30; v. 272; p. 808.
Richards, Willard F., Depew, N. Y., assignor by mesne assignments, to The Atlantic Hand Brake Corporation. Hand-brake. No. 1,343,061; June 8; v. 275; p. 337.
Richards, Willard F., Buffalo, N. Y., assignor to Gould Coupler Company. Dynamo suspension. No. 1,359,920; Nov. 23; v. 280; p. 683.
Richards, William H., Knoxville, Tenn. Pneumatic tire. No. 1,332,953; Mar. 9; v. 272; p. 200.
Richards, William H., Knoxville, Tenn. Pneumatic tire. No. 1,362,187; Dec. 14; v. 281; p. 288.
Richards, Windsor L., Portland, Oreg. Quick-acting dust-cap for inflating valve-stems. No. 1,337,371; Apr. 20; v. 273; p. 451.
Richardson, Alan C., Silver Spring, Md. Processing apparatus for canned products. No. 1,328,202; Jan. 13; v. 270; p. 309.
Richardson, Alfonso A., New York, N. Y. Building construction. No. 1,330,347; Feb. 10; v. 271; p. 219.
Richardson, Bayard E., assignor to Mechano Gear Shift Company, Grand Rapids, Mich. Gear-shift. No. 1,329,798; Feb. 3; v. 271; p. 84.
Richardson, Bayard E., assignor to Mechano Gear Shift Company, Grand Rapids, Mich. Transmission-gear shift appliance. No. 1,354,689; Oct. 5; v. 279; p. 48.
Richardson, Bayard E., and A. M. Lynn, assignors to Mechano Gear Shift Company, Grand Rapids, Mich. Combination gear-shift and overrunning clutch and governor therefor. No. 1,358,655; Nov. 9; v. 280; p. 345.
Richardson, Brodie J., and C. S. Barber, Waterbury, Conn. Lockable handbag-latch. No. 1,357,725; Nov. 2; v. 280; p. 99.
Richardson, Charles F., Woonsocket, R. I., assignor, by mesne assignments, to G. B. Pitts, trustee, Cleveland, Ohio. Vending-machine. No. 1,336,389; Apr. 6; v. 273; p. 129.
Richardson, Charles G., assignor to Parks & Woolson Machine Co., Springfield, Vt. Measuring-indicator. No. 1,357,903; Nov. 2; v. 280; p. 134.
Richardson, Charles G., assignor to Parks & Woolson Machine Company, Springfield, Vt. Measuring dial or indicator. No. 1,357,904; Nov. 2; v. 280; p. 134.
Richardson, Charles P. (See Priest, H. M., Ford, Greenbaum, and Richardson.)
Richardson, Charles W., Piketon, Ohio. Rail-fastener. No. 1,345,958; July 6; v. 276; p. 125.
Richardson Corporation. (See Richardson, D., and Jacoby, assignors.)
Richardson, Durbin, and C. N. Jacoby, assignors to Richardson Corporation, Rochester, N. Y. Portable beverage-dispensing apparatus. No. 1,352,475; Sept. 14; v. 278; p. 182.
Richardson, Earl H., Ontario, Calif., assignor to Edison Electric Appliance Company, Inc. Electric heating device. No. 1,345,696; July 6; v. 276; p. 72.
Richardson, Elmer E., assignor of one-half to G. J. Miller, Eaton, Ind. Belt-tightener. No. 1,338,096; Apr. 27; v. 273; p. 657.
Richardson, George A., Somerset, and A. Mercier, Worthing, England; said Mercier assignor to said Richardson. Device for shearing and cutting metals. No. 1,347,912; July 27; v. 276; p. 688.
Richardson, George L. (See Weber, H., and Richardson.)
Richardson, Harmon S., Massillon, Ohio. Automobile-door latch. No. 1,347,229; July 20; v. 276; p. 495.
Richardson, Henry. (See Lippert, William, assignor.)
Richardson, Henry, Passaic, N. J. Automatic compensator for weighing-machines. No. 1,346,684; July 13; v. 276; p. 329.
Richardson, Henry, Passaic, N. J. Grain-unloading and grain-car-track construction. No. 1,350,736; Aug. 24; v. 277; p. 679.
Richardson, John F., assignor to The Carbo-Hydrogen Company, Pittsburgh, Pa. Apparatus for cutting metals. No. 1,359,530; Nov. 23; v. 280; p. 605.
Richardson, John R., Madera, Calif. Mold for constructing hollow walls of concrete. No. 1,329,095; Jan. 27; v. 270; p. 543.
Richardson, Joseph G., Pittsburgh, and F. L. Metzger, Avalon, Pa. Reinforcement for concrete construction. No. 1,362,188; Dec. 14; v. 281; p. 288.
Richardson, Linwood T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Producing molded products. No. 1,342,067; June 1; v. 275; p. 89.
Richardson, Myron H., Chicago, Ill. Gas-engine. No. 1,360,316; Nov. 30; v. 280; p. 829.
Richardson, Orlo D., Chicago, Ill. Tracton-vehicle. No. 1,342,761; June 8; v. 275; p. 278.
Richardson Paper Company, The. (See Mullin, Thomas J., assignor.)
Richardson, Ralph R., assignor to Chicago Carton Company, Chicago, Ill. Folding paper box. No. 1,363,436; Dec. 28; v. 281; p. 622.
Richardson, Robert H., Richmond, Va. Shutter. No. 1,363,672; Dec. 28; v. 281; p. 668.
Richardson, Robert N., Los Angeles, Calif. Cooling device for beds and sleeping-compartments. No. 1,327,214; Jan. 6; v. 270; p. 63.
Richardson, Rodney G., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone-repeater. No. 1,344,210; June 22; v. 275; p. 690.
Richardson, Rodney G., assignor to Automatic Electric Company, Chicago, Ill. Selective switching mechanism. No. 1,344,822; June 29; v. 275; p. 876.
Richardson, Rodney G., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,344,823; June 29; v. 275; p. 876.
Richardson, Thomas A. B., Indianapolis, Ind. Carbureter. No. 1,358,876; Nov. 16; v. 280; p. 434.
Richardson, Thomas H., Lexington, N. C. Cleaning apparatus. No. 1,343,644; June 15; v. 275; p. 515.
Richardson, William D., assignor to Swift and Company, Chicago, Ill. Apparatus for making catalyzers. No. 1,338,698; May 4; v. 274; p. 9.
Richenbacher, Adolph. (See Winger, S. C., and Richenbacher.)
Richens, John M. (See Montgomery, Lewis A., assignor.)
Richens, John M., Jacksonville, Fla. Corner-holder for frames. No. 1,334,553; Mar. 23; v. 272; p. 608.
Richer, Homer J. (See Lehigh, Dan H., assignor.)
Richer, Joseph R., and J. O. Hessler, Chicago, Ill. Milling-cutter. No. 1,338,158; Apr. 27; v. 273; p. 669.
Richey, James I., Cincinnati, Ohio. Means for lubricating leaf-springs. No. 1,352,915; Sept. 14; v. 278; p. 270.
Richey, James I., Cincinnati, Ohio. Manifold-heater. No. 1,362,353; Dec. 14; v. 281; p. 320.
Richey, William, Chicopee Falls, Mass., assignor to A. G. Spalding & Bros., Jersey City, N. J. Tennis-racket. No. 1,333,876; Mar. 16; v. 272; p. 434.
Richley, Alfred, Cleveland, Ohio, assignor of one-half to W. C. Cone, Toronto, Ontario, Canada. Building concrete ships. No. 1,327,739; Jan. 13; v. 270; p. 222.
Richman, Nathan O., Cleveland, Ohio. Spool-rack. No. 1,345,883; July 6; v. 276; p. 109.
Richman, Philip J. (See Eckert and Richman.)
Richmond, Everett B., Hartford, Conn., assignor of one-half to W. V. Schnell, Weathersfield, Conn. Washtub. No. 1,337,272; Apr. 20; v. 273; p. 432.
Richmond Radiator Company. (See Niemeyer, Henry C., assignor.)
Richmond-Standard Manufacturing Company, The. (See Zimmerman, Charles P., assignor.
Richmond, William U., Madison, Wis. Vehicle-frame. No. 1,343,682; June 15; v. 275; p. 522.
Richter, Charles M., Chicago, Ill. Collar. No. 1,353,181; Sept. 21; v. 278; p. 382.
Richter, Georg, Teutschenthal, near Halle-on-the-Saale, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Production of molybdenum compounds. No. 1,360,581; Nov. 30; v. 280; p. 881.
Richter, Hans F., assignor, by mesne assignments, to R. J. Reynolds Tobacco Company, Winston-Salem, N. C. Tobacco-stemming machine. No. 1,347,403; July 20; v. 276; p. 530.
Richter, Hans F., assignor, by mesne assignments, to R. J. Reynolds Tobacco Company, Winston-Salem, N. C. Tobacco-stemming machine. No. 1,347,404; July 20; v. 276; p. 530.
Richter, Johannes, Lindenthal, Cologne, Germany. Cigarette. No. 1,338,529; Apr. 27; v. 273; p. 739.
Richter, William, assignor to General Electric Company, Scotia, N. Y. Electric switch. No. 1,357,726; Nov. 2; v. 280; p. 100.
Richter, William H., Philadelphia, Pa., assignor to A. A. Kent, Ardmore, Pa. Interrupter mechanism. No. 1,348,185; Aug. 3; v. 277; p. 10.
Richter, William H., Philadelphia, assignor to A. A. Kent, Ardmore, Pa. Condenser unit and making same. No. 1,351,787; Sept. 7; v. 278; p. 14.
Ricke, George H., Cincinnati, Ohio. Skate. No. 1,351,925; Sept. 7; v. 278; p. 43.
Ricker, Chester S., and R. C. Root, Indianapolis, Ind. Bearing member. No. 1,355,266; Oct. 12; v. 279; p. 215.
Ricker, George E., Fitzgerald, Ga. Electric lamp. No. 1,344,429; June 22; v. 275; p. 734.
Rickert-Schafer Company. (See Boehm, Rudolph A., assignor.)
Rickert-Schafer Company. (See Shafer, Arthur A., assignor.)
Ricketson, Herbert B., Providence, R. I. Baseball-curver. No. 1,332,303; Mar. 2; v. 272; p. 25.

Digitized by Google

Ricketts, James R., Kansas City, Mo. Dust-arrester for air-compressors. No. 1,345,405; July 6; v. 276; p. 16.
Ricketts, James R., Long Beach, Calif. Power-transmission means and control therefor. No. 1,348,822.; Aug. 3; v. 277; p. 133.
Ricketts, Lawrence M., assignor of one-half to W. A. Harman, Baltimore, Md. Steel wheel. No. 1,352,146; Sept. 7; v. 278; p. 84.
Ricketts, William C., Dayton, Ohio. Scouring soap cake, to be used in general scouring and cleaning purposes. No. 1,328,898; Jan. 27; v. 270; p. 506.
Rickon, Harold J., assignor of one-half to J. A. Sandal, San Francisco, Calif. Automatic air-release. No. 1,329,210; Jan. 27; v. 270; p. 565.
Ricks, Absalom W., Rexburg, Idaho. Lock. No. 1,358,877; Nov. 16; v. 280; p. 434.
Ricks, Elbert E., Philadelphia, Pa. Window cleaner and wiper. No. 1,341,590; May 25; v. 274; p. 760.
Ricks, Fred, Leicester, England, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Pulling-over machine. No. 1,346,256; July 13; v. 276; p. 245.
Ricks, Tillman D., Lyons, Ga. Hog-yoke. No. 1,347,352; July 20; v. 276; p. 520.
Ricks, William H., Jr., and W. Meisenbach, Hysam, Mont. Past and future reference calendars. No. 1,330,281; Feb. 10; v. 271; p. 206.
Ricordi, Juan A. V., New York, N. Y. Protecting apparatus for ships. No. 1,355,267; Oct. 12; v. 279; p. 215.
Ric-Wil Company, The. (See Gottwald, Christian, assignor.)
Riddell, George H., assignor to Domestic Sewing Machine Co., Inc., Buffalo, N. Y. Portable sewing-machine head. No. 1,344,718; June 29; v. 275; p. 856.
Riddell, George H., assignor to Domestic Sewing Machine Co., Buffalo, N. Y. Bobbin-winder for motor-driven sewing-machines. No. 1,351,442; Aug. 31; v. 277; p. 879.
Riddell, William A., and F. A. G. Pirwitz, assignors to Eastman Kodak Company, Rochester, N. Y. Photographic shutter. No. 1,341,823; June 1; v. 275; p. 42.
Ridderstedt, Charles H., Pittsburgh, Pa. Combustion of fuel. No. 1,328,296; Jan. 20; v. 270; p. 363.
Riddick, David R. (See Mackintosh, Alexander L., assignor.)
Riddick, David R., Rawlins, Wyo., assignor of one-half to A. L. Mackintosh, Denver, Colo. Garment-hanger. No. 1,352,382; Sept. 7; v. 278; p. 128.
Riddick, Rolland C., Washington, D. C. Overhead transportation apparatus. No. 1,355,911; Oct. 19; v. 279; p. 380.
Riddle, Leander W. (See Quintin, Clarence E., assignor.)
Riddle, Zala, Dunsmuir, Calif. Incubator. No. 1,330,721; Feb. 10; v. 271; p. 288.
Ridehalgh, George L., *et al.*, executors. (See Royle, John J. and G. E.)
Rideout, William A. (See Maxcy, W. G., and Rideout.)
Rider, Edward A., assignor of one-half to L. R. Mosher, Westbury, N. Y. Aero submarine torpedo. No. 1,337,960; Apr. 20; v. 273; p. 563.
Rider, Ernest G., assignor to Schwerdtle Machine Company, Philadelphia, Pa. Expansion-mandrel. No. 1,327,445; Jan. 6; v. 270; p. 105.
Rider, Thomas B., assignor of one-half to A. Danziger, Los Angeles, Calif. Contact. No. 1,348,052; July 27; v. 276; p. 717.
Rider, Thomas B., assignor of one-half to A. Danziger, Los Angeles, Calif. X-ray tube. No. 1,352,630; Sept. 14; v. 278; p. 213.
Ridgway, Herbert N., Winthrop, Mass. Amusement apparatus. No. 1,341,219; May 25; v. 274; p. 689.
Ridgway, Herbert N., Winthrop, Mass. Amusement apparatus. No. 1,341,220; May 25; v. 274; p. 689.
Ridgway, Herbert N., Winthrop, Mass. Amusement device. No. 1,363,352; Dec. 28; v. 281; p. 606.
Riding, Alfred, Worcester, Mass. Window-seat. No. 1,351,690; Aug. 31; v. 277; p. 928.
Ridings, John H., Minneapolis, Minn. Jawed tool. No. 1,334,965; Mar. 30; v. 272; p. 745.
Ridings, Percy, trustee. (See Caldwell, E. D., assignor.)
Ridout, Harry C., Bournemouth, England. Resilient heel or lift for boots and shoes. No. 1,351,691; Aug. 31; v. 277; p. 928.
Ridsdale, Charles, Guelph, Ontario, Canada. Bearing. No. 1,358,786; Nov. 16; v. 280; p. 416.
Ridsdale, Herbert W. (See Lees, E., and Ridsdale.)
Rieber, Frank, assignor, by mesne assignments, to Rieber Laboratories, San Francisco, Calif. Apparatus for nebulizing liquids. No. 1,330,218; Feb. 10; v. 271; p. 195.
Rieber Laboratories. (See Rieber, Frank, assignor.)
Rieber Laboratories. (See Small, Ralph H., assignor.)
Rieboth, George H., Minneapolis, Minn. Battery-tester. No. 1,337,160; Apr. 13; v. 273; p. 336.
Riechers, William H., Hammond, Ind. Wire-coating apparatus. No. 1,333,132; Mar. 9; v. 272; p. 234.
Rieck, Charles A., Delano, Calif. Grain-separator. No. 1,362,896; Dec. 21; v. 281; p. 477.
Rieck, William L. (See Gerritson, J., and Rieck.)
Riedel, Charles E., assignor, by mesne assignments, to Detroit Automatic Scale Company, Detroit, Mich. Scale. No. 1,355,499; Oct. 12; v. 279; p. 260.
Riedele, Philip, Los Angeles, Calif. Bumper-bracket holder. No. 1,329,019; Jan. 27; v. 270; p. 529.
Riedele, Philip, assignor to United States Spring Company, Inc., Los Angeles, Calif. Bumper. No. 1,345,106; June 29; v. 275; p. 929.
Riederer, Herman S. (See Ellis, C., and Riederer.)
Riedler, Alois, Berlin, Germany. Elastic drive for power-engines. No. 1,332,755; Mar. 2; v. 272; p. 111.
Riedling, John H. (See Deutsch, F., and Riedling.)
Riedy, Dodge A. (See Post, L. E., and Riedy.)
Riedy, Walter L., Houghton, Mich. Gage. No. 1,345,248; June 29; v. 275; p. 956.
Rieflin, George H., Rochester, assignor of one-half to C. A. Worm, Buffalo, N. Y. Burner. No. 1,355,500; Oct. 12; v. 729; p. 260.
Rieg, Bernard E. (See Williams, E. B., and Rieg.)
Rieger, Henry E. (See White, F. M., and Rieger.)
Riegger, Constantin, New York, N. Y. Tank-ball. No. 1,334,793; Mar. 23; v. 272; p. 653.
Riehle, Henry C., Downers Grove, assignor to Standard Asphalt & Refining Company, Chicago, Ill. Expansion-joint. No. 1,329,631; Feb. 3; v. 271; p. 54.
Rieke, Ray, Sterling, Colo. Loading-machine. No. 1,359,431; Nov. 16; v. 280; p. 541.
Riemenschneider, Ernest, Highland Park, Mich., assignor to Ford Motor Company of Delaware, Detroit, Mich. Machine and method for electric heating for upsetting and forming. No. 1,359,199; Nov. 16; v. 280; p. 494.
Ries, Louis N., Kansas City, Mo. Explosive-engine starter. No. 1,338,159; Apr. 27; v. 273; p. 669.
Rieschick, Herman F., Kansas City, Mo. Gun. No. 1,345,551; July 6; v. 276; p. 44.
Rieser, Simon, Middletown, Conn., assignor to The New England Enameling Co. Producing a single white-enamel coat on steel. No. 1,360,317; Nov. 30; v. 280; p. 829.
Rieser, Simon, Middletown, Conn., assignor to The New England Enameling Co. White-enameled steel vessel. No. 1,360,318; Nov. 30; v. 280; p. 829.
Riesland, Daniel W., Duluth, Minn. Anatomical developing and adjusting machine. No. 1,348,896; Aug. 10; v. 277; p. 200.
Riess, William H., Cincinnati, Ohio. Telephone-operating device. No. 1,350,737; Aug. 24. v. 277; p. 679.
Rieth, Charles H., St. Louis, Mo. Implement-handle. No. 1,349,223; Aug. 10; v. 277; p. 264.
Riethmüller, Richard H., Montclair, N. J., assignor to H. A. Metz, New York, N. Y. Hypodermic syringe. No. 1,328,203; Jan. 13; v. 270; p. 309.
Rietzel, Adolph F., Charlestown, R. I., assignor to Thomson Electric Welding Company, Lynn, Mass. Intermediate conductor for electric metal-working apparatus. No. 1,332,688; Mar. 2; v. 272; p. 98.
Rigal, Waldo A., Corning, N. Y. Combination-lock. No. 1,345,552; July 6; v. 276; p. 45.
Rigby, Clark F., Butler, Pa. Sucker-rod. No. 1,357,475; Nov. 2; v. 280; p. 52.
Rigby, George E. Manchester, England. Spring suspension. No. 1,327,063; Jan. 6; v. 270; p. 35.
Rigby, George E., Manchester, England. Locking device. No. 1,356,087; Oct. 19; v. 279; p. 415.
Rigby, Holden, Paterson, N. J. Lubricating means for leaf-springs. No. 1,352,314; Sept. 7; v. 278; p. 116.
Rigby, John H., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Welt-indenting machine. No. 1,351,064; Aug. 31; v. 277; p. 804.
Rigby, John H., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating upon shoe-soles. No. 1,351,065; Aug. 31; v. 277; p. 804.
Rigg, James B., Oak Park, Ill. Means for and method of regulating breathing for singing and wind-instrument practice. No. 1,354,212; Sept. 28; v. 278; p. 631.
Riggin, Fred L. (See Helby, C. G., Burkam, Lindquist, Allen, Riggin, and Lau.)
Riggin, Henry H., assignor to A. F. Shomberg, Altoona, Pa. Valve or blow-off cock. No. 1,331,025; Feb. 17; v. 271; p. 416.
Riggins, David E., Perry, Okla. Locking means. No. 1,330,394; Feb. 10; v. 271; p. 227.
Riggins, Wyatt S. (See Sims, James G., assignor.)
Riggs, Alfred L., Pittsburgh, Pa. Spark-plug. No. 1,355,427; Oct. 12; v. 279; p. 246.
Riggs, Distler & Stringer. (See Brown, Hector H., assignor.)
Riggs, Fletcher S., Marshall, Tex. Electric-light switch. No. 1,335,753; Apr. 6; v. 273; p. 10.
Riggs, James B., Glenhayes, W. Va. Bushing-extractor. No. 1,359,432; Nov. 16; v. 280; p. 541.
Riggs, Marion L., Bertha, Minn. Vehicle-spring. No. 1,350,942; Aug. 24; v. 277; p. 718.
Riggs, Marion L., International Falls, Minn. Hair-clipper. No. 1,354,458; Sept. 28; v. 278; p. 680.
Rightmire, Franklin. (See Fichten, Frank M., assignor.)
Rightnour, George E., Kearney, Pa. Joint and chair for railway-rails. No. 1,346,384; July 13; v. 276; p. 270.
Rigling, John. Philadelphia, Pa. Two-stage air-lift pump. No. 1,333,279; Mar. 9; v. 272; p. 261.
Rihl, William H. (See Ayres, E. B., and Rihl.)
Riiber, Claus N., assignor to Norsk Alkali A/S, Trondhjem, Norway. Electrolyzing apparatus. No. 1,337,724; Apr. 20; v. 273; p. 517.

Digitized by Google

Riise, John, Doylestown, Ohio. Tractor. No. 1,355,501; Oct. 12; v. 279; p. 261.
Riise, John, Doylestown, Ohio. Tractor construction. No. 1,355,502; Oct. 12; v. 279; p. 261.
Riise, John, Doylestown, Ohio. Bolt-fastening mechanism. No. 1,355,503; Oct. 12; v. 279; p. 261.
Riise, John, Doylestown, Ohio. Air-cleaner. No. 1,355,504; Oct. 12; v. 279; p. 261.
Riise, John, Doylestown, Ohio. Wheel construction. No. 1,355,505; Oct. 12; v. 279; p. 261.
Riise, John, Doylestown, Ohio. Change-speed gearing. No. 1,355,506; Oct. 12; v. 279; p. 262.
Rike, Berton I., assignor to The Rike Folding Box Company, Dayton, Ohio. Garment bag or container. No. 1,357,517; Nov. 2; v. 280; p. 59.
Rike Folding Box Company, The. (See Rike, Berton I., assignor.)
Riker, Andrew L., assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn. Convertible railway and roadway vehicle. No. 1,347,828; July 27; v. 276; p. 671.
Riker, Malcolm D., Dover, N. J. Thread-bushing. No. 1,363,353; Dec. 28; v. 281; p. 607.
Riker, Samuel M. (See Kadow, Richard C., assignor.)
Riley, Daniel E., Seattle, Wash. Body-rubbing device. No. 1,345,026; June 29; v. 275; p. 914.
Riley, Elmer, and C. F. Yuncker, Dodge City, Kans. Rack for holding cooky-boxes. No. 1,345,244; June 29; v. 275; p. 956.
Riley, Fred E., Livermore Falls, Me. Automatic grinder-stone dresser. No. 1,333,445; Mar. 9; v. 272; p. 292.
Riley, Henry M., East Las Vegas, N. Mex. Trap for oil wells or pumps. No. 1,334,678; Mar. 23; v. 272; p. 630.
Riley, J. N., *et al.* (See Tullis, John T., assignor.)
Riley, Joshua J., and E. E. Blackstone, Pontiac, Mich. Tool-holder. No. 1,346,978; July 20; v. 276; p. 447.
Riley, Lester S., Greenwood, Mass. Corner-pocket. No. 1,355,694; Oct. 12; v. 279; p. 207.
Riley, Lynn G., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,332,066; Feb. 24; v. 271; p. 630.
Riley, Lynn G., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,333,681; Mar. 16; v. 272; p. 398.
Riley, Lynn G., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,336,583; Apr. 13; v. 273; p. 226.
Riley, Lynn G., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,341,675; June 1; v. 275; p. 12.
Riley, Lynn G., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electric vehicle. No. 1,360,319; Nov. 30; v. 280; p. 829.
Riley, Patrick J., assignor to Erie Manufacturing Company, Cleveland, Ohio. Barrel-agitator. No. 1,335,258; Mar. 30; v. 272; p. 800.
Riley, Phillip L., Blairsville, Pa. Window-seat. No. 1,347,122; July 20; v. 276; p. 474.
Riley, Ralph E., Akron, Ohio, assignor to The Miller Rubber Company. Mechanism for manufacturing rubber bathing-caps. No. 1,352,383; Sept. 7; v. 278; p. 128.
Riley, Ralph E., Akron, Ohio, assignor to The Miller Rubber Company. Manufacture of rubber bathing-caps and analogous articles. No. 1,353,421; Sept. 21; v. 278; p. 428.
Riley, Ray, Castlewood, S. D. Dirt-scraper. No. 1,358,017; Nov. 9; v. 280; p. 217.
Riley, Robert S., assignor to Sanford Riley Stoker Co., Worcester, Mass. Agitating coal-feeding hopper. No. 1,360,798; Nov. 30; v. 280; p. 923.
Riley, Thomas, Oelwein, Iowa. Protector for sewers of engine cinder-pits. No. 1,349,734; Aug. 17; v. 277; p. 439.
Riley, William F., Spokane, Wash. Package-tie. No. 1,351,344; Aug. 31; v. 277; p. 860.
Riley, Willis L., Mellen, Wis. Steam-superheater. No. 1,344,211; June 22; v. 275; p. 690.
Rimailho, Emile, assignor to Compagnie Des Forges Et Acieries de La Marine Et D'Homecourt, Paris, France. Wheeled gun-carriages. No. 1,330,614; Feb. 10; v. 271; p. 268.
Rimailho, Emile, assignor to Compagnie Des Forges et Acieries De La Marine et D'Homecourt, Paris, France. Caterpillar gun-carriage. No. 1,332,067; Feb. 24; v. 271; p. 630.
Rimailho, Emile, assignor to Compagnie Des Forges et Acieries De La Marine et D'Homecourt, Paris, France. Caterpillar gun-carriage. No. 1,334,794; Mar. 23; v. 272; p. 653.
Rimailho, Emile, assignor to Compagnie Des Forges et Acieries De La Marine et D'Homecourt, Paris, France. Gun-carriage. No. 1,345,245; June 29; v. 275; p. 956.
Rimailho, Emile, assignor to Compagnie Des Forges et Acieries De La Marine et D'Homecourt, Paris, France. Gun-carriage. No. 1,345,246; June 29; v. 275; p. 956.
Rimailho, Emile, assignor to Compagnie Des Forges Et Acieries De La Marine Et D'Homecourt, Paris, France. Hydraulic-joint cartridge. No. 1,346,722; July 13; v. 276; p. 337.
Rimailho, Emile, assignor to Compagnie Des Forges Et Acieries De La Marine Et D'Homecourt, Paris, France. Road-train. No. 1,346,723; July 13; v. 276; p. 337.
Rimailho, Emile, assignor to Compagnie Des Forges et Acieries De La Marine et D'Homecourt, Paris, France. Compound crawler. No. 1,352,315; Sept. 7; v. 278; p. 116.
Rimailho, Emile, assignor to Compagnie Des Forges et Acieries De La Marine et D'Homecourt, Paris, France. Endless track for facilitating the progression of automobile vehicles on hilly grounds. No. 1,358,575; Nov. 9; v. 280; p. 329.
Rimailho, Emile, assignor to Compagnie Des Forges Et Acieries De La Marine Et D'Homecourt, Paris, France. Transmission mechanism for automobile vehicles having wheels and endless trucks. No. 1,360,022; Nov. 23; v. 280; p. 703.
Rimmer, Mark C., London, England. Urethroscope and like surgical instrument. No. 1,345,406; July 6; v. 276; p. 16.
Rinck, Charles, Cincinnati, Ohio. Bake-oven. No. 1,345,107; June 29; v. 275; p. 929.
Rindsberger, Albert, Chicago, Ill. Fastening means. No. 1,358,988; Nov. 16; v. 280; p. 456.
Rinehart, Armstrong P., Los Angeles, Calif. Wrench. No. 1,334,636; Mar. 23; v. 272; p. 623.
Rinfret, Alfred W., Montreal, Quebec, Canada. Pattern and method of cutting skins or the like. No. 1,331,527; Feb. 24; v. 271; p. 528.
Rinfrett, Napoleon. (See Thomson, Albert R., assignor.)
Ringelstein, Louise E., New York, N. Y. Safety clothes-line attachment for windows. No. 1,334,795; Mar. 23; v. 272; p. 653.
Ringer, Luther, assignor to The Simmen Automatic Railway Signal Company, Buffalo, N. Y. Signal system for moving vehicles. No. 1,340,500; May 18; v. 274; p. 480.
Ringer, Luther, assignor to The Simmen Automatic Railway Signal Company, Buffalo, N. Y. Cab-signal system. No. 1,351,943; Sept. 7; v. 278; p. 46.
Ringer, Sören, Copenhagen, Denmark. Arrangement for letter-files and the like. No. 1,336,584; Apr. 13; v. 273; p. 226.
Ringland, Albert, Philadelphia, Pa. Portable Brinnell hardness-tester. No. 1,348,897; Aug. 10; v. 277; p. 200.
Ringle, Robert F., assignor to Herman Pneumatic Machine Company, Zellenople, Pa. Lifting device for bathtubs. No. 1,360,147; Nov. 23; v. 280; p. 728.
Ringler, William A., New York, N. Y. Safety filing system. No. 1,332,954; Mar. 9; v. 272; p. 201.
Ringman, Andrew. (See Weeks, Frank E., assignor.)
Ringwald, Clarence. (See Berdon, A. E., Ringwald, and Gomory.)
Rink, Harold J., Chicago, Ill. Apparatus for rectifying spinal deformities. No. 1,347,913; July 27; v. 276; p. 689.
Rinker, Frank B., Detroit, Mich. Match-box container. No. 1,362,820; Dec. 21; v. 281; p. 463.
Rinman, Erick L., Djursholm, Sweden. Retting fibrous substances. No. 1,344,719; June 29; v. 275; p. 856.
Rinman, Erik L., Djursholm, Sweden. Dry distillation. No. 1,347,713; July 27; v. 276; p. 649.
Rinn, Henry, Jr., Elkridge, Md. Clamp for placing springs in spring casings. No. 1,358,878; Nov. 16; v. 280; p. 435.
Rinn, Henry, Jr., Elkridge, Md. Clamp. No. 1,361,548; Dec. 7; v. 281; p. 116.
Rinn, Michael M., *et al.* (See Schott, John H., assignor.)
Rintoul, William. (See Nathan, F. L., Rintoul, and Baker.)
Rintoul, William, and T. J. Nolan, assignors to Nobel's Explosives Company Limited, Stevenston, Ayrshire, Scotland. Gelatinization of cellulose nitric esters in the manufacture of explosives. No. 1,348,741; Aug. 3; v. 277; p. 117.
Rio Grande Valley Bank and Trust Company, administrator. (See McClintock, Charles D.)
Riordan, Patrick D., New York, N. Y. Clothes-drier. No. 1,354,420; Sept. 28; v. 278; p. 673.
Riordan, Patrick D., New York, N. Y. Clothes-drier. No. 1,354,421; Sept. 28; v. 278; p. 673.
Riordan, Robert J., and J. P. Hanley, Chicago, Ill. Garment-display rack. No. 1,332,146; Feb. 24; v. 271; p. 644.
Rios, Ernesto G., Chicago, Ill. Rule. No. 1,338,962; May 4; v. 274; p. 57.
Rios, John, New York, N. Y. Thermostatic switch. No. 1,350,183; Aug. 17; v. 277; p. 524.
Rioux, Eugene F. (See Colter, R. L., and Rioux.)
Ripley, Ernest. (See Skinner, Fred R., assignor.)
Ripley, Harrie A. (See Turner, A., and Ripley.)
Ripley, William H., Brooklyn, N. Y., assignor to The Griscom-Russell Company. Weir-overflow for evaporators. No. 1,361,905; Dec. 14; v. 281; p. 231.
Rippe, August B., Salt Lake City, Utah. Detachable device for operating awning-winches. No. 1,345,027; June 29; v. 275; p. 914.
Rippl, Charles H., assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio. Switch-contact. No. 1,334,554; Mar. 23; v. 272; p. 608.
Rippl, Francis J. (See Hoffstetter and Rippl.)

Digitized by Google

Rippl, Franz, Stettin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Process of and oven for the continuous distillation or gasification of organic matter or minerals containing organic matter. No. 1,355,268; Oct. 12; v. 279; p. 215.

Ripple, John W., Baltimore, Md. Sewer-trap. No. 1,328,103; Jan. 13; v. 270; p. 290.

Rippliер, James M., *et al.*, trustees. (See Milliken, Foster, assignor.)

Ripsch, Charles W., and J. C. Dawley, assignors to The Joyce-Cridland Company, Dayton, Ohio. Flexible-base jack. No. 1,346,847; July 20; v. 276; p. 420.

Ripsch, Charles W., and J. C. Dawley, assignors to The Joyce-Cridland Company, Dayton, Ohio. Self-lowering lifting-jack. No. 1,349,101; Aug. 10; v. 277; p. 240.

Ripsch, Charles W., and J. C. Dawley, assignors to The Joyce-Cridland Company, Dayton, Ohio. Ratchet mechanism. No. 1,352,631; Sept. 14; v. 278; p. 213.

Ripsch, Charles W., J. C. Dawley, and C. D. Derby, assignors to The Joyce-Cridland Company, Dayton, Ohio. Lifting-jack. No. 1,344,117; June 22; v. 275; p. 672.

Risch, Robert, Milwaukee, Wis. Attachment for digging implements. No. 1,353,494; Sept. 21; v. 278; p. 443.

Rischmuller, George, San Francisco, Calif. Turbine. No. 1,362,963; Dec. 21; v. 281; p. 490.

Risdon, I. V. (See Risdon, William N., assignor.)

Risdon, William N., assignor of one-half to Mrs. I. V. Risdon, Watsonville, Calif. Fruit pitter and cutter. No. 1,339,367; May 4; v. 274; p. 132.

Riseborough, Purling, Monroe Center, Ill. Farm-tractor. No. 1,341,480; May 25; v. 274; p. 740.

Rishel, Arlington E., Seattle, Wash. Electric switch. No. 1,337,961; Apr. 20; v. 273; p. 563.

Rishel, Arthur B., Goddard, Kans. Vacuum snow-sweep. No. 1,352,384; Sept. 7; v. 278; p. 128.

Rising, Lewis E., Worcester, Mass. Toy arrow-sling. No. 1,358,674; Nov. 9; v. 280; p. 349.

Risinger, Frank V., assignor to The Block Gas Mantle Co., Youngstown, Ohio. Vacuum-feed attachment for carbureters. No. 1,340,983; May 25; v. 274; p. 643.

Risk, George A., Brooklyn, N. Y. Pencil and case. No. 1,337,412; Apr. 20; v. 273; p. 458.

Risley, Fred M. (See Egbert, Louis M., assignor.)

Risser, Arthur L., assignor to U. S. Bottlers Machinery Company, Chicago, Ill. Measuring bottle-filling machine. No. 1,360,023; Nov. 23; v. 280; p. 703.

Rissman, Henry L., Chicago, Ill. Garment. No. 1,352,027; Sept. 7; v. 278; p. 61.

Ritchey, John C., and F. G. Williams, Bellevue, Pa. Electric welding-tool. No. 1,359,620; Nov. 23; v. 280; p. 623.

Ritchie, Allen A., Houston, Tex. Automobile-lock. No. 1,346,135; July 13; v. 276; p. 221.

Ritchie, Andrew E., Brookline, Mass. Translucent mariner's compass. No. 1,332,304; Mar. 2; v. 272; p. 25.

Ritchie, Charles. (See Kaufmann, Frederick J., assignor.)

Ritchie, Gavin, Jr., Battle Creek, Mich., assignor of three-fourths to C. L. Braley, Chicago, Ill. Pressing and ironing machine. No. 1,358,879; Nov. 16; v. 280; p. 435.

Ritchie, Samuel, assignor of one-third to S. L. Chicker, Ladysmith, Wis. Portable automatic door-lock and burglar-alarm. No. 1,346,768; July 13; v. 276; p. 346.

Ritchie, Thomas E., Beverly, Mass., assignor, by mesne assignments to United Shoe Machinery Corporation, Paterson, N. J. Inserted-tooth cutter. No. 1,354,578; Oct. 5; v. 279; p. 26.

Ritchie, W. C., & Company. (See Stock, Julius A., assignor.)

Rittberger, William H., Granite City, Ill. Roll-polishing machine. No. 1,354,213; Sept. 28; v. 278; p. 631.

Ritter, Adolph P., Chicago, Ill. Spokeshave. No. 1,332,919; Mar. 9; v. 272; p. 194.

Ritter, Carl J., assignor of one-fourth to J. H. Ritter and one-fourth to J. J. Ritter, Seattle, Wash. Flying-machine. No. 1,356,088; Oct. 19; v. 279; p. 415.

Ritter, Charles A., assignor to Nestor Johnson Manufacturing Company, Chicago, Ill. Skate-sharpening stand. No. 1,362,045; Dec. 14; v. 281; p. 260.

Ritter, Charles R., Freeport, Ill. Automobile-lock. No. 1,359,433; Nov. 16; v. 280; p. 541.

Ritter, George, Pinckneyville, Ill. Automobile-jack. No. 1,359,531; Nov. 23; v. 280; p. 606.

Ritter, George F., and H. C. Tillotson, assignors to The Tillotson Manufacturing Company, Toledo, Ohio. Fuel-mixer. No. 1,351,126; Aug. 31; v. 277; p. 816.

Ritter, Irvin M., Buchanan, Mich. Moving-picture film. No. 1,360,441; Nov. 30; v. 280; p. 853.

Ritter, John H., *et al.* (See Ritter, Carl J., assignor.)

Ritter, John J., *et al.* (See Ritter, Carl J., assignor.)

Ritter, John O., assignor of one-half to W. E. Smith, Clarksburg, W. Va. Steering-post lock. No. 1,331,942; Feb. 24; v. 271; p. 607.

Ritter, Lucinda, Riverside, Calif. Electric darning-ball. No. 1,349,979; Aug. 17; v. 277; p. 485.

Ritter, Mathew, Freehold, N. J. Speed-changing mechanism. No. 1,350,670; Aug. 24; v. 277; p. 666.

Ritter, Thomas J., Jr., and B. M. Warn, Lairdsville, Pa. Lever-holding mechanism for automobiles. No. 1,328,899; Jan. 27; v. 270; p. 506.

Ritter, Thomas J., Jr., and B. M. Warn, Lairdsville, Pa. Lever-holding mechanism for automobiles. No. 1,329,142; Jan. 27; v. 270; p. 552.

Ritterbush, Charles H. (See Muzzy, Ernest E., assignor.)

Rittman, Walter F. (See Whitaker, M. C., and Rittman.)

Rittman, Walter F. (See Whitaker and Rittman.)

Rittman, Walter F., Pittsburgh, Pa. Treatment of hydrocarbons. No. 1,330,008; Feb. 3; v. 271; p. 124.

Rittman, Walter F., and C. B. Dutton, Pittsburgh, Pa. Carbon-removing means. No. 1,329,852; Feb. 3; v. 271; p. 95.

Rittman, Walter F., assignor to Synthetic Hydrocarbon Company, Pittsburgh, Pa. Manufacture of gas. No. 1,329,853; Feb. 3; v. 271; p. 95.

Rittman, Walter F., Pittsburgh, Pa. Apparatus for treatment of hydrocarbons. No. 1,352,916; Sept. 14; v. 278; p. 270.

Rittman, Walter F., Pittsburgh, Pa. Apparatus for treatment of hydrocarbons. No. 1,352,917; Sept. 14; v. 278; p. 270.

Ritz, Charles, Rochester, N. Y. Arch-support. No. 1,358,018; Nov. 9; v. 280; p. 217.

Ritzema, David. (See Eggleston, William H., assignor.)

Ritz-Woller, Oliver C., Chicago, Ill. Gasolene-gage and filling-spout. No. 1,335,196; Mar. 30; v. 272; p. 789.

Ritz-Woller, Oliver C., Chicago, Ill. Windshield-cleaner for automobiles. No. 1,351,218; Aug. 31; v. 277; p. 834.

Rivard, Jules X. (See Ayotte, Joseph R., assignor.)

River and Rail Transportation Company. (See Kirchner, Henry W., assignor.)

Rivers, Charles A., Enterprise, Oreg. Nut-lock. No. 1,332,521; Mar. 2; v. 272; p. 67.

Rivers, John L., Seattle, Wash. Clip and support for vertical file-folders. No. 1,351,127; Aug. 31; v. 277; p. 816.

Rivers, William F., Nairn Center, Ontario, Canada. Voting-machine. No. 1,360,799; Nov. 30; v. 280; p. 924.

Riverside Boiler Works. (See Suttill, Albert G., assignor.)

Rives, Hal D., *et al.* (See Hoyt, Royal E., assignor.)

Rives, Hal D., *et al.* (See Lewis, Jesse D., assignor.)

Rivett Lathe and Grinder Company. (See Halstead, Frederick H., assignor.)

Riviere, Jean, New York, N. Y. Turning mechanism for motor-vehicles. No. 1,335,856; Apr. 6; v. 278; p. 28.

Rivoire, Henry J. (See Sultzer, Morton B., assignor.)

Rix, Edward A., Oakland, Calif. Unloader for compressors or the like. No. 1,345,884; July 6; v. 276; p. 109.

Rix, George T., Denver, Colo. Milk-bottle carrier. No. 1,336,049; Apr. 6; v. 273; p. 65.

Rix, Milton H. (See Thompson, Harry E., Linsley, and Rix.)

Rizzuto, James, New Orleans, La. Rail-joint. No. 1,342,228; June 1; v. 275; p. 121.

Rizzuto, James, assignor of one-third to Consumers Biscuit Company, New Orleans, La. Glass-retaining device for containers. No. 1,352,531; Sept. 14; v. 278; p. 192.

Roach, Andrew J., Newark, N. J. Machine for cutting fur, skins and the like. No. 1,357,727; Nov. 2; v. 280; p. 100.

Roach, Finis E., Chicago, Ill. Centrifugal casting-machine. No. 1,362,821; Dec. 21; v. 281; p. 463.

Roach, Harry F., St. Louis, Mo. Rail-joint. No. 1,361,774; Dec. 7; v. 281; p. 159.

Roach, Harry F., St. Louis, Mo. Rail-joint. No. 1,361,775; Dec. 7; v. 281; p. 159.

Roach, Jesse E. (See Moore, Wade W., assignor.)

Roach, Joseph H., Philadelphia, Pa. Furnace. No. 1,346,464; July 13; v. 276; p. 286.

Roach, Joseph H., Brookline, Pa. Underfeed-stoker furnace. No. 1,346,465; July 13; v. 276; p. 286.

Roach, Joseph H., Philadelphia, and G. Miller, Norristown, Pa; said Miller assignor to said Roach. Underfeed stoker-furnace. No. 1,355,269; Oct. 12; v. 279; p. 216.

Roach, Patrick J., and D. Carter, Toronto, Ontario, Canada. Meter for liquids. No. 1,340,293; May 18; v. 274; p. 441.

Road-A-Meter Company. (See Castner, William H., assignor.)

Roades, Weslie M., Okmulgee, Okla. Casing-head. No. 1,343,477; June 15; v. 275; p. 481.

Roan, Harry A., Brooking, Saskatchewan, Canada. Steering device. No. 1,343,062; June 8; v. 275; p. 337.

Roark, A. W. (See Robichaux, Sosthene, assignor.)

Roark, Ruric C., Chicago, Ill., assignor to U. S. Sanitary Products Corporation. Deodorizing material. No. 1,346,337; July 13; v. 276; p. 262.

Robarts, Heber, Belleville, Ill. Window-lock. No. 1,360,800; Nov. 30; v. 280; p. 924.

Robatel, T., J. Buffaud, & Cie. (See Marette, Jacques, assignor.)

Robb, Clyde S., Charlerol, Pa., assignor of one-half to C. J. Kunzler, Pittsburgh, Pa. Manufacture of window-glass. No. 1,356,729; Oct. 26; v. 279; p. 590.

Robb, George E., Schenectady, N. Y., assignor to General Electric Company. Elastic fluid turbine. No. 1,362,437; Dec. 14; v. 281; p. 336.

Robb, James T., Bay Shore, N. Y. Lighting-fixture for attachment to bedroom furniture. No. 1,356,312; Oct. 19; v. 279; p. 460.

Robb, John F., Washington, D. C. Accounting-machine-control means. No. 1,357,423; Nov. 2; v. 280; p. 42.

Digitized by Google

Alphabetical list of patentees—Continued.

Robb, John F., Washington, D. C., assignor to Koehring Machine Company, Milwaukee, Wis. Control mechanism for mixing-machines. No. 1,328,765; Jan. 20; v. 270; p. 451.
Robb, Jordan, Xenia, Ohio. Protector for celluloid curtain-windows. No. 1,340,912; May 25; v. 274; p. 629.
Robbins, Arthur I., Quincy, Mass. Spar and boom turning machine. No. 1,350,840; Aug. 24; v. 277; p. 699.
Robbins, Charles F., Keene, N. H., assignor to Markem Machine Company, Boston, Mass. Printing-head for marking-machines. No. 1,341,021; May 25; v. 274; p. 650.
Robbins, Daniel W., Metcalf, Ill. Combination rack and ironing-board. No. 1,335,857; Apr. 6; v. 273; p. 28.
Robbins, Frank, Clifton Hill, Victoria, Australia. Apparatus for removing stones from fruit. No. 1,357,004; Oct. 26; v. 279; p. 641.
Robbins, John E. (See Kirkpatrick, Gladys L., assignor.)
Robbins, Louis S., and W. E. Gilmore, Klamath Falls, Oreg. Road-shoe for automobiles. No. 1,347,405; July 20; v. 276; p. 531.
Robbins, Orlando B. Bridgeport, Conn. Combination toolbox and sawhorse. No. 1,345,247; June 29; v. 275; p. 957.
Robbins, William, and H. F. Bryan, Chicago, Ill. Engine-governor. No. 1,334,555; Mar. 23; v. 272; p. 608.
Robbins, Wilson T., Salt Lake City, Utah. Bottle-capping machine. No. 1,355,912; Oct. 19; v. 279; p. 380.
Roberg, Harry T., Castana, Iowa. Separator for storage batteries. No. 1,358,576; Nov. 9; v. 280; p. 320.
Roberge, James Z., Dallas, Tex. Automobile-tool. No. 1,339,289; May 4; v. 274; p. 117.
Robergel, Gabriel, Montreuil-sous-Bois, France. Manufacture of bolts. No. 1,346,058; July 6; v. 276; p. 144.
Roberson, Celeste H., Clarksdale, Miss. Flour-sifter. No. 1,330,722; Feb. 10; v. 271; p. 289.
Roberson, S. Denver, St. Louis, Mo. Street-indicator. No. 1,342,394; June 1; v. 275; p. 152.
Roberson, William S. (See Foister, John L., assignor.)
Robert, August, assignor to C. L. Polanco, Coatepec, Veracrus, Mexico. Apparatus for treating coffee. No. 1,341,676; June 1; v. 275; p. 12.
Roberton, Lloyd, Utica, Minn. Automatic release-coupling. No. 1,356,741; Oct. 26; v. 279; p. 590.
Roberts, Aden H., and G. W. Weed, Waverly, N. Y. Bottle capping and corking tool. No. 1,351,539; Aug. 31; v. 277; p. 899.
Roberts, Albert J., assignor to Pittsburgh Garbage Incineration Co., Incorporated, Pittsburgh, Pa. Garbage-incinerator. No. 1,337,668; Apr. 20; v. 273; p. 506.
Roberts, Alonzo J., assignor to Williams Patent Crusher & Pulverizer Co., St. Louis, Mo. Pneumatic grader and metal-catcher. No. 1,355,270; Oct. 12; v. 279; p. 216.
Roberts, Alvin L., Philadelphia, Pa. Rolled-metal section. No. 1,362,438; Dec. 14; v. 281; p. 336.
Roberts, Alvin L., Philadelphia, Pa. Rolled-metal section. No. 1,362,439; Dec. 14; v. 281; p. 337.
Roberts, Arthur, Evanston, Ill., assignor, by mesne assignments, to American Coke & Chemical Company, Chicago, Ill. Ammonia-saturator. No. 1,331,784; Feb. 24; v. 271; p. 577.
Roberts, Arthur, Evanston, assignor, by mesne assignments, to American Coke & Chemical Company, Chicago, Ill. By-product condenser. No. 1,333,631; Mar. 16; v. 272; p. 388.
Roberts, Arthur, Evanston, assignor to American Coke and Chemical Company, Chicago, Ill. Coking coal. No. 1,352,696; Sept. 14; v. 278; p. 226.
Roberts, Arthur, Evanston, assignor to American Coke & Chemical Company, Chicago, Ill. Coke-oven. No. 1,356,788; Oct. 26; v. 279; p. 599.
Roberts, Arthur, Evanston, Ill., assignor to American Coke & Chemical Company, Chicago, Ill. Coke-oven heating-wall and the like. No. 1,358,787; Nov. 16; v. 280; p. 416.
Roberts, Benjamin, Lake Saskatoon, Alberta, Canada. Saw set and gage. No. 1,356,221; Oct. 19; v. 279; p. 442.
Roberts, Charles, Newark, N. J. Sign mechanism. No. 1,336,585; Apr. 13; v. 273; p. 226.
Roberts, Charles E., Oak Park, Ill. Dandelion-rake. No. 1,336,861; Apr. 13; v. 273; p. 279.
Roberts, Charles E., Oak Park, Ill. Machine for breaking and scutching hemp or other fibrous material. No. 1,356,740; Oct. 26; v. 279; p. 590.
Roberts, Clarence V., assignor to Roberts & Mander Stove Company, Philadelphia, Pa. Oven-burner for gas-ranges. No. 1,328,589; Jan. 20; v. 270; p. 419.
Roberts, Drew D., Perry, Fla. Power-transmission attachment for automobiles. No. 1,353,786; Sept. 21; v. 278; p. 501.
Roberts, Drew D., Perry, Fla. Belt-tightener. No. 1,363,015; Dec. 21; v. 281; p. 500.
Roberts, Eugene, assignor to Sugar Centrifugal Discharger Company, Salt Lake City, Utah. Spray-nozzle. No. 1,353,495; Sept. 21; v. 278; p. 442
Roberts, Ferdinand C., Detroit, Mich. Signal for automobiles. No. 1,354,066; Sept. 28; v. 278; p. 602.
Roberts, Frank, Liverpool, England, and J. M. Giffin, Halifax, Nova Scotia, Canada. Cementitious material for receptacle-closures. No. 1,343,282; June 15; v. 275; p. 444.
Roberts, Frank E., assignor to Sargent & Company, New Haven, Conn. Casket-handle. No. 1,337,278; Apr. 20; v. 273; p. 432.
Roberts, Fred T., Cleveland Heights, assignor to The Aranar Company, Cleveland, Ohio. Making balls. No. 1,329,311; Jan. 27; v. 270; p. 583.
Roberts, Fred T., Cleveland, Ohio. Mold for making rubber articles. No. 1,329,312; Jan. 27; v. 270; p. 583.
Roberts, Fred T., Cleveland, Ohio. Making hollow rubber articles. No. 1,362,640; Dec. 21; v. 281; p. 428.
Roberts, Fred T., assignor to The Aranar Company, Cleveland, Ohio. Inflated golf-ball and making. No. 1,329,310; Jan. 27; v. 270; p. 582.
Roberts, Fred T., Cleveland Heights, Ohio, assignor, by mesne assignments, to Paramount Rubber Consolidated, Inc., Philadelphia, Pa. Making hollow rubber articles. No. 1,346,848; July 20; v. 276; p. 420.
Roberts, Fred T., Cleveland, Ohio, assignor, by mesne assignments, to Paramount Rubber Consolidated, Inc., Philadelphia, Pa. Inflated article. No. 1,355,271; Oct. 12; v. 279; p. 216.
Roberts, George C. (See Schmidt, W. A., and Roberts.)
Roberts, George P., assignor of one-half to V. Snyder, Fort Worth, Tex. Double-lever brake. No. 1,334,754; Mar. 23; v. 272; p. 645.
Roberts, George W., Menard, Tex. Windmill-gearing. No. 1,336,758; Apr. 13; v. 273; p. 259.
Roberts, Harry H., Corwin, Kans. Attachment for binders. No. 1,349,855; Aug. 17; v. 277; p. 461.
Roberts, Henry P., assignor to Rodik Company, Boston, Mass. Stopper for bottles and similar containers. No. 1,346,510; July 13; v. 276; p. 295.
Roberts, Henry T., New York, N. Y. Handle-bar. No. 1,331,875; Feb. 24; v. 271; p. 595.
Roberts, Henry T., New York, N. Y. Making wrenches. No. 1,340,560; May 18; v. 274; p. 492.
Roberts, James M., Rices Landing, Pa. Sharpener. No. 1,335,603; Mar. 30; v. 272; p. 865.
Roberts, James M., near St. Joseph, Mo. Vehicle-jack. No. 1,335,858; Apr. 6; v. 273; p. 29.
Roberts, James M., near St. Joseph, Mo. Mid-ocean station. No. 1,341,677; June 1; v. 275; p. 13.
Roberts, Jerry, Chisholm, Minn. Doll. No. 1,331,378; Feb. 17; v. 271; p. 480.
Roberts, John T. (See Hafner and Roberts.)
Roberts, John W., assignor of one-third to R. L. Webster and one-third to W. P. Cornett, Oklahoma, Okla. Standard-lock. No. 1,351,402; Aug. 31; v. 277; p. 872.
Roberts, Joseph H., Manchester, Conn. Clutch. No. 1,360,320; Nov. 30; v. 280; p. 830.
Roberts, Joseph I., Prescott, Ariz. Device for arching and fitting semi-elliptic springs. No. 1,353,272; Sept. 21; v. 278; p. 399.
Roberts, Julius O., Abilene, Kans. Tool. No. 1,333,778; Mar. 16; v. 272; p. 416.
Roberts, Lafe O., Portland, Oreg. Surgical appliance. No. 1,340,501; May 18; v. 274; p. 481.
Roberts, Lafe O., Portland, Oreg. Shuttle-clamp. No. 1,360,582; Nov. 30; v. 280; p. 881.
Roberts, Leroy C., South Orange, N. J., assignor to The Barrett Company. Apparatus for making composite sheets of felt. No. 1,360,684; Nov. 30; v. 280; p. 901.
Roberts, Louis L. (See Golata and Roberts.)
Roberts, Lyman R., Rutherford, N. J. Ribbon movement. No. 1,338,699; May 4; v. 274; p. 10.
Roberts & Mander Stove Company. (See Roberts, Clarence V., assignor.)
Roberts Numbering Machine Company. (See Kern, Maximilian H., assignor.)
Roberts, Odin, assignor to Fire Protection Securities Company, Boston, Mass. Fusible link. No. 1,357,347; Nov. 2; v. 280; p. 28.
Roberts, Raymond M., Melrose Highlands, Mass. Platform for use with elevating-trucks. No. 1,349,917; Aug. 17; v. 277; p. 473.
Roberts, Richard H., Henderson, Auckland, assignor to P. N. Kingswell, trustee, One Tree Hill, Auckland, New Zealand. Collapsible box, case, or crate. No. 1,347,230; July 20; v. 276; p. 495.
Roberts, Robert S., New Orleans, La. Rail-chair. No. 1,360,685; Nov. 30; v. 280; p. 901.
Roberts & Schaefer Company. (See Ross, Clyde P., assignor.)
Roberts & Schaefer Company. (See Shimizu, Hobson S., assignor.)
Roberts & Schaefer Company. (See Wilson, Charles P., assignor.)
Roberts, Theodore C., Bridgeport, Conn. Method of and apparatus for making phonograph-records. No. 1,358,577; Nov. 9; v. 280; p. 329.
Roberts, Walter S., Liverpool, England, assignor to The Railway Signal Company, Limited, Westminster, England. Apparatus for operating railway and tramway points, signals, and the like. No. 1,331,379; Feb. 17; v. 271; p. 480.
Roberts, Walter S., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Accentuating device for controllers. No. 1,333,733; Mar. 16; v. 272; p. 408.
Roberts, William E., Kenosha, Wis. Button-link. No. 1,335,703; Mar. 30; v. 272; p. 884.

Digitized by Google

Roberts, William E., assignor, by mesne assignments, to Foundation Oven Corporation, New York, N. Y. Valve for coke-ovens and the like. No. 1,347,056; July 20; v. 276; p. 462.

Roberts, William T. B., Leicester, England, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Work-support. No. 1,330,902; Feb. 17; v. 271; p. 391.

Roberts, William T. B., Leicester, England, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Lasting-machine. No. 1,360,442; Nov. 30; v. 280; p. 853.

Robertshaw, Frederick W., Pittsburgh, and G. A. Robertshaw, Greensburg, Pa. Thermostatic valve mechanism. No. 1,339,368; May 4; v. 274; p. 132.

Robertshaw, George A. (See Robertshaw, Frederick W., and G. A.)

Robertson, Alex S. (See Shaver, William R., assignor.)

Robertson, Alexander C., North Sydney, and F. Volk, Enfield, New South Wales, Australia, assignors to Universal Grinding Machine Company, Reno, Nev. Grinding and polishing lenses. No. 1,343,522; June 15; v. 275; p. 490.

Robertson, Archibald B., Auckland, assignor to The Auto Milking Machine Company, Limited, Hawera, New Zealand. Milking-machine pulsator. No. 1,361,617; Dec. 7; v. 281; p. 128.

Roberston, Charles B., Columbus, Ohio. Tent. No. 1,363,437; Dec. 28; v. 281; p. 622.

Robertson, Elmer D. B., *et al.* (See Umphrey, Henry, assignor.)

Robertson, Elroy C., Cleveland, assignor, by mesne assignments, to Electric Vacuum Cleaner Company, Inc., East Cleveland, Ohio. Suction-cleaner. No. 1,333,682; Mar. 16; v. 272; p. 398.

Robertson, Frank E. (See Geier, P. A., and Robertson.)

Robinson, Frank W., assignor to The Nolde & Horst Co., Reading, Pa. Drop-stitch mechanism for knitting-machines. No. 1,339,715; May 11; v. 274; p. 275.

Robertson, G. D., *et al.* (See Baker, Elbridge, assignor.)

Robertson, Harold H., Sewickley, assignor to Aspromet Company, Pittsburgh, Pa. Built-up roofing. No. 1,343,478; June 15; v. 275; p. 481.

Robertson, Harold H., Sewickley, assignor to Asbestos Protected Metal Company, Pittsburgh, Pa. Shingle. No. 1,358,113; Nov. 9; v. 280; p. 236.

Robertson, Henry M., St. Paul, Minn. Car-brake-actuating mechanism. No. 1,330,282; Feb. 10; v. 271; p. 206.

Robertson, James, Jr., Weehawken, N. J. Repair-patches for rubber footwear. No. 1,354,846; Oct. 5; v. 279; p. 80.

Robertson, James H., and D. Jankower, New York, N. Y. Daylight motion-pictures. No. 1,331,081; Feb. 17; v. 271; p. 426.

Robertson, James H., and D. Jankower, New York, N. Y. Tungsten crucible and making and using same. No. 1,333,036; Mar. 9; v. 272; p. 216.

Robertson, James H., assignor of one-half to D. Jankower, New York, N. Y. Showing motion-pictures by daylight. No. 1,332,413; Mar. 2; v. 272; p. 46.

Robertson, Jessie S., Piedmont, Calif. Hand-spindle for and method of winding yarn. No. 1,330,093; Feb. 10; v. 271; p. 171.

Robertson, John A., and P. W. Tierney, assignors to Eastman Kodak Company, Rochester, N. Y. Gun-camera. No. 1,360,443; Nov. 30; v. 280; p. 854.

Robertson, John D., assignor to Winchester Repeating Arms Co., New Haven, Conn. Fishing-reel. No. 1,355,695; Oct. 12; v. 279; p. 298.

Robertson, Maxwell W., Belle Harbor, N. Y., assignor to G. P. Schmidt. Electrical connector. No. 1,347,590; July 27; v. 276; p. 624.

Robertson, Noel Y., and H. Moss, Johannesburg, Transvaal, South Africa. Pipe and hose coupling. No. 1,333,342; Mar. 9; v. 272; p. 273.

Robertson, Samuel M., and F. C. Dyer, Toronto, Ontario, Canada. Wrench. No. 1,352,729; Sept. 14; v. 278; p. 233.

Robertson, Stephen, *et al.* (See Yeats, Samuel W., assignor.)

Robertson, Thomas L., Danville, Va. Inkstand. No. 1,345,959; July 6; v. 276; p. 125.

Robertson, Thomas L., Spray, N. C. Auto-bumper. No. 1,348,053; July 27; v. 276; p. 717.

Robertson, Victor L., Rexburg, Idaho. Automobile-extractor. No. 1,333,133; Mar. 9; v. 272; p. 234.

Robertson, William, Glasgow, assignor of one-half to The Fairfield Shipbuilding & Engineering Company, Limited, Govan, Glasgow, Scotland. Flexible expansion-coupling for rotary shafts. No. 1,358,467; Nov. 9; v. 280; p. 308.

Robertson, William F., Malta, Mont. Fence-wire fastener. No. 1,328,693; Jan. 20; v. 270; p. 438.

Robertson, William P., assignor to Animated Target Company, Inc., New York, N. Y. Film-reel brake for cinematographic targets. No. 1,334,966; Mar. 30; v. 272; p. 746.

Robertson, William P., assignor to L. B. Koch, New York, N. Y. Control-switch for cinematographic target. No. 1,351,443; Aug. 31; v. 277; p. 879.

Robertson, William P., assignor to The Calorex Corporation, New York, N. Y. Electric stove. No. 1,359,275; Nov. 16; v. 280; p. 509.

Robeson Process Company. (See Hurt, Henry H., assignor.)

Robeson, William B., *et al.* (See Sarjeant, Alexander J., assignor.)

Robichaux, Sosthene, and C. Paggi, Saratoga, Tex. Pipe-puller. No. 1,342,870; June 8; v. 275; p. 300.

Robichaux, Sosthene, assignor of one-half to A. W. Roark, Saratoga, Hardin county, Tex. Bit-cleaner. No. 1,331,126; Feb. 17; v. 271; p. 434.

Robichon, Luis, Mendoza, Argentina. Water-containing vessel for preserving fruits and vegetables. No. 1,360,024; Nov. 23; v. 280; p. 703.

Robin Hood Toy Company. (See White, Holman H., assignor.)

Robin, Jacob I., New York, N. Y. Gas-heater. No. 1,351,004; Aug. 24; v. 277; p. 729.

Robin, Jacob I., New York, N. Y. Gas-heater. No. 1,351,005; Aug. 24; v. 277; p. 729.

Robin, Jacob I., New York, N. Y. Upright gas-lamp. No. 1,351,128; Aug. 31; v. 277; p. 816.

Robinett, Winfield S., Oakland, Calif. Vulcanising apparatus. No. 1,349,693; Aug. 17; v. 277; p. 430.

Robinson, Albert A., Albia, Iowa. Tire-chain fastener. No. 1,330,903; Feb. 17; v. 271; p. 392.

Robinson, Albert E. (See Sosa, A. M., Robinson, and Schatz.)

Robinson, Anderson C. S., Suffolk, Va. Dental ornament. No. 1,349,102; Aug. 10; v. 277; p. 240.

Robinson, Arthur D., St. Louis, Mo. Desiccating apparatus. No. 1,330,746; Feb. 10; v. 271; p. 293.

Robinson, Arthur D., Logan, W. Va. Desiccating apparatus. No. 1,330,747; Feb 10; v. 271; p. 293.

Robinson, Arthur H., Cleveland, Ohio. Joint-coupling. No. 1,359,621; Nov. 23; v. 280; p. 623.

Robinson, Benjamin E., Tulsa, Okla. Sewing-machine attachment. No. 1,347,406; July 20; v. 276; p. 531.

Robinson-Bindley, William T., Wimbledon, London, and A. W. Weller, London, England. Dope or substitutes for celluloid, vulcanite, and the like. No. 1,331,127; Feb. 17; v. 271; p. 434.

Robinson, Burton J., Stanley, Wis. Stump-puller. No. 1,347,792; July 27; v. 276; p. 665.

Robinson, Charles A., East Orange, N. J. Tennis-net appliance. No. 1,351,066; Aug. 31; v. 277; p. 805.

Robinson, Charles G., Buffalo, N. Y., assignor to The Beaver Company. Composite board and treating same. No. 1,334,637; Mar. 23; v. 272; p. 623.

Robinson, Charles G., Buffalo, N. Y., assignor to The Beaver Company. Compound board. No. 1,334,796; Mar. 23; v. 272; p. 653.

Robinson, Charles G., Buffalo, N. Y., assignor to The Beaver Company. Compound board. No. 1,344,962; June 29; v. 275; p. 902.

Robinson, Charles W., Battle Creek, Mich. Collapsible berry-box. No. 1,352,833; Sept. 14; v. 278; p. 234.

Robinson, Clarence N., Palatine Bridge, N. Y. Hermetic closure for receptacles. No. 1,346,257; July 13; v. 276; p. 245.

Robinson Connector Company, The. (See Robinson, Joseph V., assignor.)

Robinson, Daniel P. (See Taliaferro, J. C., Robinson, and Coyle.)

Robinson, Elmer D., Cambridge, Mass. Spindle. No. 1,333,632; Mar. 16; v. 272; p. 388.

Robinson, Emmanuel W., Camp Lewis, Wash. Window-jack. No. 1,330,348; Feb. 10; v. 271; p. 219.

Robinson, Eugene C., Douglas, Ariz., assignor of fifty-five-one-hundredths to Phelps Dodge Corporation. Rabble. No. 1,353,422; Sept. 21; v. 278; p. 428.

Robinson, Frank, Chicago, Ill. Spark-plug. No. 1,347,662; July 27; v. 276; p. 638.

Robinson, Frank M., Victoria, Ill. Locking device. No. 1,358,989; Nov. 16; v. 280; p. 456.

Robinson, Frank W., assignor to The Nolde & Horst Co., Reading, Pa. Gap-closing attachment for knitting machines. No. 1,357,252; Nov. 2; v. 280; p. 10.

Robinson, Frank W., assignor to The Nolde & Horst Co., Reading Pa. Striping attachment for circular-knitting machines. No. 1,357,253; Nov. 2; v. 280; p. 10.

Robinson, Frank W., assignor to The Nolde & Horst Co., Reading, Pa. Striping mechanism for knitting-machines. No. 1,357,254; Nov. 2; v. 280; p. 11.

Robinson, Frederic W. (See Walker and Robinson.)

Robinson, George A., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. End folding and sealing machine for cartons. No. 1,338,749; May 4; v. 274; p. 19.

Robinson, George O., Port Dover, Ontario, Canada. Cone-baking machine. No. 1,346,338; July 13; v. 276; p. 262.

Robinson, Grosvenor P., Summit, N. J. Lighting-fixture. No. 1,363,919; Dec. 28; v. 281; p. 716.

Robinson, H. G., and L. K. Stinson, Los Angeles, Calif. Carburetor. No. 1,352,316; Sept. 7; v. 278; p. 116.

Robinson, Harry A., assignor to Eclipse Stove Company, Mansfield, Ohio. Gas burner. No. 1,329,096; Jan. 27; v. 270; p. 543.

Robinson, Harry C., Coatesville, Pa. Magnet-wire retriever. No. 1,360,686; Nov. 30; v. 280; p. 901.

Digitized by Google

Robinson, Hugh A., Keyport, N. J. Aeroplane-fitting. No. 1,361,495; Dec. 7; v. 281; p. 104.
Robinson, Hugh A., Keyport, N. J., assignor to Aeromarine Plane & Motor Co., Inc. Aeroplane. No. 1,345,885; July 6; v. 276; p. 110.
Robinson, Hugh A., assignor to Aeromarine Plane & Motor Co., Inc., Keyport, N. J. Aeroplane-fitting. No. 1,358,247; Nov. 9; v. 280; p. 262.
Robinson, Hugh G., Philadelphia, Pa. Resilient heel-plate for shoes. No. 1,337,962; Apr. 20; v. 273; p. 563.
Robinson, James. (See Erskine-Murray, J., and Robinson.)
Robinson, James, Biggin Hill, England. Electromagnetic-wave navigational system. No. 1,357,210; Oct. 26; v. 279; p. 681.
Robinson, John T. Company. (See Taylor, Eugene H., assignor.)
Robinson, John T., and G. E. Gooding, Boston, Mass.; said Gooding assignor to said Robinson. Safety device for bor-ending machines and like presses. No. 1,329,431; Feb. 3; v. 271; p. 16.
Robinson, Joseph C. (See Hodge, G. H., and Robinson.)
Robinson, Joseph V., Santa Monica, Calif, assignor to The Robinson Connector Company, Washington, D. C. Automatic train-pipe connector. (Reissue.) No. 14,878; June 1; v. 275; p. 156.
Robinson, Lester H., Aurora, Ill. Vehicle-tire clip. No. 1,358,019; Nov. 9; v. 280; p. 218.
Robinson, Lloyd A., assignor to Duplex Tractor Company, Inc., Troy, N. Y. Tractor steering mechanism. No. 1,333,683; Mar. 16; v. 272; p. 398.
Robinson, Robert B., Kansas City, Mo. Transposing musical chart. No. 1,354,214; Sept. 28; v. 278; p. 632.
Robinson, Robert E., *et al.* (See Brown, Leonard L., assignor.)
Robinson, Robert F., Dallas, Tex. Chassis connection. No. 1,334,714; Mar. 23; v. 272; p. 637.
Robinson-Roders Co., The. (See Young, Cyrus H., assignor.)
Robinson, Samuel, New York, N. Y. Gromet. No. 1,356,404; Oct. 19; v. 279; p. 477.
Robinson, Samuel, Fieldsboro, N. J. Chain welding-machine. No. 1,362,897; Dec. 21; v. 281; p. 477.
Robinson, Theodore D., Los Angeles, Calif. Explosion-engine. No. 1,355,428; Oct. 12; v. 279; p. 246.
Robinson, Tives D., Patton, Mo. Vehicle-spring. No. 1,334,403; Mar. 23; v. 272; p. 580.
Robinson, Ward W., East Liverpool, Ohio. Automobile-tire. No. 1,333,779; Mar. 16; v. 272; p. 416.
Robinson, William A., Minneapolis, Minn. Barrel-handling device. No. 1,335,796; Apr. 6; v. 273; p. 18.
Robinson, William H., Schenectady, N. Y. Knockdown stove. No. 1,327,115; Jan. 6; v. 270; p. 44.
Robinson, William H., assignor of one-half to E. Kendall, Brooklyn, N. Y. Vehicle-tire. No. 1,340,984; May 25; v. 274; p. 643.
Robinson, William J., assignor to American Flax Fibre and Linen Corporation, New York, N. Y. Treating flax or similar fiber and product. No. 1,355,571; Oct. 12; v. 279; p. 274.
Robison, Charles W. (See Robison, Samuel D., and C. W.)
Robison, Clinton S., assignor to Aladdin Products Company, Chicago, Ill. Manufacture of dye-soap. No. 1,353,182; Sept. 21; v. 278; p. 382.
Robison, Floyd W. (See Holley, C. M., and Robison.)
Robison, Robert B., Caddo, Tex. Wire-line spooler. No. 1,348,448; Aug. 3; v. 277; p. 62.
Robison, Samuel D. and C. W., McKees Rocks, Pa. Fork. No. 1,355,001; Oct. 5; v. 279; p. 109.
Robison, Sidney J., Pensacola, Fla. Shell-plate-bending machine. No. 1,358,396; Nov. 9; v. 280; p. 293.
Robitsch, Frederick L. (See Viezzi, Luigi, assignor.)
Roble, Pedro, Bogota, Colombia. Typewriting-machine. No. 1,339,369; May 4; v. 274; p. 133.
Roblin, Brock R., assignor to Wayne Specialty Manufacturing Corporation, Rochester, N. Y. Key-ring holder. No. 1,341,930; June 1; v. 275; p. 62.
Robson, William H., and A. Powell, London, England. Foot-arch support. No. 1,346,059; July 6; v. 276; p. 145.
Robus, John, and C. D. Compton, New York, N. Y. Wrench. No. 1,334,261; Mar. 16; v. 272; p. 506.
Roby, Marion S., Kenton, Ohio. Valve. No. 1,345,248; June 29; v. 275; p. 957.
Roché, Jean A., Dayton, Ohio. Landing-gear for airplanes. No. 1,329,477; Feb. 3; v. 271; p. 26.
Roché, Jean A., Dayton, Ohio. Guy-wire fitting. No. 1,329,478; Feb. 3; v. 271; p. 26.
Roche, John W., Philadelphia, Pa., assignor of one-half to E. M. Sleppy, Binghamton, N. Y. Purifier. No. 1,339,980; May 11; v. 274; p. 325.
Rochester Patents Corporation. (See Shaut, Edwin J., assignor.)
Rochester Washing Machine Corporation. (See Couch, Forrest J., assignor.)
Ročić, Ivan, Chicago, Ill. Barking-machine. No. 1,333,734; Mar. 16; v. 272; p. 408.
Rock, Gilbert L., Los Angeles, Calif. Power-transmitting device. No. 1,354,777; Oct. 5; v. 279; p. 66.
Rock Hill Paint and Cloth Company. (See Thompson, Nathaniel A., assignor.)
Rock Island Plow Company. (See Bergendorf, Gottfrid, assignor.)
Rock Island Plow Company. (See Kaupe, Lee H., assignor.)
Rockefeller, Albert H. (See Pratt, Elmer M.)
Rockett, James, Cleveland, Ohio. Dust-proof and moth-proof wardrobe. No. 1,335,920; Apr. 6; v. 273; p. 41.
Rockford Milling Machine Company. (See Sundstrand, Gustaf D., assignor.)
Rockford Tool Company. (See Sundstrand, Gustaf D., assignor.)
Rockola, Arthur E., Sandford Deen, Saskatchewan, Canada. Grain-pickler. No. 1,344,148; June 22; v. 275; p. 678.
Rockwell, Byrd C., Camden, Ark. Wall-closure construction. No. 1,363,854; Dec. 28; v. 281; p. 607.
Rockwell, Christopher W. (See Rockwell, Welcome A., and C. N.)
Rockwell & Company. (See Collett, Frederick W. H., assignor.)
Rockwell, E. A., Company. (See Rockwell, Edward A., assignor.)
Rockwell, Edward A., New York, N. Y. Carbureter. No. 1,360,025; Nov. 23; v. 280; p. 704.
Rockwell, Edward A., assignor to E. A. Rockwell Company, Inc., New York, N. Y. Vacuum feeding system. No. 1,360,026; Nov. 23; v. 280; p. 704.
Rockwell, Edward A., assignor to E. A. Rockwell Company, Inc., New York, N. Y. System for feeding by means of a vacuum. No. 1,360,027; Nov. 23; v. 280; p. 704.
Rockwell, Edward A., Flushing, assignor to E. A. Rockwell Company, Inc., New York, N. Y. Liquid-feeding device. No. 1,360,028; Nov. 23; v. 280; p. 704.
Rockwell, Edward D., Bristol, Conn. Spinner-wrench. No. 1,331,082; Feb. 17; v. 271; p. 426.
Rockwell, Frederick C., Hartford, Conn., and W. M. Davis, Gloucester, Mass., assignors to Eureka Screen Company, Inc., Hartford, Conn. Moving-picture-display screen. No. 1,356,659; Oct. 26; v. 279; p. 574.
Rockwell, Hugh M., Bristol, Conn., assignor to The Marlin-Rockwell Corporation, New York, N. Y. Gun-mount. No. 1,337,327; Apr. 20; v. 273; p. 443.
Rockwell, Lea W., Washington, D. C., assignor to the Government of the United States. Percussion and ignition fuse. No. 1,356,828; Oct. 26; v. 279; p. 607.
Rockwell, Robert L. (See Stevens, H. R., and Rockwell, assignors.)
Rockwell, Robert R. (See Lovell, Wesley S., assignor.)
Rockwell, W. S., Company. (See Barnhart, Clarence D., assignor.)
Rockwell, W. S., Company. (See Rockwell, Walter S., assignor.)
Rockwell, W. S., Company. (See Turtle, Morton A., assignor.)
Rockwell, Walter S., assignor to W. S. Rockwell Company, New York, N. Y. Sectional lining for rotary furnaces. No. 1,330,219; Feb. 10; v. 271; p. 195.
Rockwell, Walter S., assignor to W. S. Rockwell Company, New York, N. Y. Composite lining for rotary furnaces. No. 1,333,343; Mar. 9; v. 272; p. 278.
Rockwell, Walter S., assignor to W. S. Rockwell Company, New York, N. Y. Recuperative furnace. No. 1,358,330; Nov. 9; v. 280; p. 279.
Rockwell, Walter S., assignor to W. S. Rockwell Company, New York, N. Y. Open-side furnace. No. 1,359,532; Nov. 23; v. 280; p. 606.
Rockwell, Welcome A., and C. N., Groton, Conn. Railway safety device. No. 1,339,136; May 4; v. 274; p. 91.
Rockwood, Aaron W., Milton, Mass. Leather-scarfing machine. No. 1,362,964; Dec. 21; v. 281; p. 490.
Rockwood Sprinkler Company of Massachusetts. (See Sandon, Horace Z., assignor.)
Rod, Lars, Washington, D. C. Serving apparatus for dining-tables. No. 1,339,525; May 11; v. 274; p. 238.
Rodberg, Anders M., Tampa, Fla. Marine steam-turbine. No. 1,353,360; Sept. 21; v. 278; p. 416.
Rode, Frederick J. (See Knoll, R. C., Rode, and Kotchi.)
Roden, Herman N., Milwaukee, Wis. Buckle. No. 1,344,652; June 29; v. 275; p. 843.
Rodenbur, John P., Duluth, Minn. Signal-carrying case. No. 1,344,564; June 22; v. 275; p. 761.
Röder, Karl, Mülheim-Ruhr, Germany. Compensating axial thrust in multistage turbines. No. 1,347,591; July 27; v. 276; p. 624.
Roderick, Arthur J., Jackman, Me. Motion-picture machine. No. 1,347,875; July 27; v. 276; p. 681.
Roderick Lean Manufacturing Company. (See Warne, Frederick C., assignor.)
Rodger Ballast Car Company. (See Nelkirk, John O., assignor.)
Rodger, Joseph B., Independence, Mo. Automatic time-controlled trip mechanism. No. 1,329,020; Jan. 27; v. 270; p. 529.
Rodgers, Claude M. (See Rodgers, E. E., and Wenger.)
Rodgers, Elmer E., A. W. Wenger, and C. M. Rodgers, Warsaw, Ind. Animal-trap. No. 1,348,449; Aug. 3; v. 277; p. 63.
Rodgers, Elwood J., Omaha, Nebr. Sound-reproducer. No. 1,359,466; Nov. 16; v. 280; p. 548.
Rodgers, Elwood J., Omaha, Nebr. Sound-reproducer. No. 1,359,467; Nov. 16; v. 280; p. 548.
Rodgers, Horace P. (See Morrison, E. R., and Rodgers.)

Digitized by Google

Rodgers, Martin, assignor of one-half to Alex. Taylor & Co., Inc., New York, N. Y. Repair device. No. 1,355,781; Oct. 12; v. 279; p. 314.
Rodgers, Robert E., and T. C. Jackson, Chicago, Ill. Apparatus for laying roadbeds. No. 1,339,069; May 4; v. 274; p. 78.
Rodgers, Stewart D., assignor of one-fourth to C. G. Hilgreth, Pittsburgh, Pa. Automatic train-control system. No. 1,359,839; Nov. 23; v. 280; p. 666.
Rodgers, Virgil R., Plainview, Tex. Cultivator attachment. No. 1,331,380; Feb. 17; v. 271; p. 480.
Rodhe, Olof, assignor to Svenska Aktiebolaget Mono, Stockholm, Sweden. Gas-analysis apparatus. No. 1,340,838; May 18; v. 274; p. 544.
Rodhe, Olof, assignor to Svenska Aktiebolaget Mono, Stockholm, Sweden. Automatic gas-analyzing apparatus. No. 1,351,129; Aug. 31; v. 277; p. 816.
Rodier, Ovias, New Market, N. H. Automatic pattern-reverser for looms. No. 1,354,690; Oct. 5; v. 279; p. 49.
Rodik Company. (See Roberts, Henry P., assignor.)
Rodin, Charles F., San Francisco, Calif. Shock-absorber. No. 1,359,106; Nov. 16; v. 280; p. 477.
Rodine, Arvid, Drinkwater, Saskatchewan, Canada. Traction-wheel. No. 1,331,724; Feb. 24; v. 271; p. 566.
Rodman Chemical Company. (See Rodman, Hugh, assignor.)
Rodman, Hugh, Edgewood, assignor to Rodman Chemical Company, East Pittsburgh, Pa. Light-coke product and making same. No. 1,334,404; Mar. 23; v. 272; p. 580.
Rodman, Hugh, Edgewood, assignor to Rodman Chemical Company, East Pittsburgh, Pa. Utilizing fuel. No. 1,334,405; Mar. 23; v. 272; p. 580.
Rodow, Abraham, New York, N. Y. Reference-book or dictionary. No. 1,358,331; Nov. 9; v. 280; p. 279.
Rodriguez, Eloy, Fajardo, Porto Rico. Double-acting high-pressure pump. No. 1,342,719; June 8; v. 275; p. 269.
Rodriguez, Eloy, Fajardo, Porto Rico. Oil-burner. No. 1,359,747; Nov. 23; v. 280; p. 648.
Rodriguez y Rodriguez, Ramon, Central Mercedes, Cuba. Colander for defecated cane-juice. No. 1,346,060; July 6; v. 276; p. 145.
Rodriguez y Rodriguez, Ramon, Central Mercedes, Mercedes, Cuba. Colander for defecated cane-juice. No. 1,358,880; Nov. 16; v. 280; p. 435.
Rodwell, James, Bushey, England. Cook's dresser, store-cupboard, and the like. No. 1,358,332; Nov. 9; v. 280; p. 280.
Roe, A. V., & Co. (See Roe, Alliott V., assignor.)
Roe, Alliott V., Hamble, Southampton, England. Apparatus for tilting planes on aerial craft. No. 1,336,160; Apr. 6; v. 273; p. 86.
Roe, Alliott V., Hamble, Southampton, England. Controlling-gear for aircraft. No. 1,343,850; June 15; v. 275; p. 556.
Roe, Alliott V., Hamble, Southampton, England. Seat support on aircraft. No. 1,350,266; Aug. 17; v. 277; p. 540.
Roe, Alliott V., Bursledon, England. Body structure for road-vehicles and the like. No. 1,347,592; July 27; v. 276; p. 625.
Roe, Alliott V., Bursledon, near Southampton, and R. J. Parrott, Hedge End, near Southampton, England. Stabilizing-plane on aerial craft. No. 1,336,161; Apr. 6; v. 273; p. 86.
Roe, Alliott V., Hamble, Southampton, assignor to A. V. Roe & Co., Limited, Manchester, England. Landing device for aircraft. No. 1,362,511; Dec. 14; v. 281; p. 351.
Roe, Alliott V., Bursledon, assignor to A. V. Roe & Co., Limited, Manchester, England. Detachable and adjustable seat for automobiles and other vehicles. No. 1,362,041; Dec. 14; v. 281; p. 259.
Roe, Alliott V., Bursledon, assignor to A. V. Roe & Co., Limited, Manchester, England. Seat-support. No. 1,362,042; Dec. 14; v. 281; p. 259.
Roe, Charles H., Weidman, Mich. Transmission of electrical power without wires. No. 1,333,095; Mar. 9; v. 272; p. 227.
Roe, Charles O., Indianapolis, Ind., assignor to Roe Metal Sandal Company, Milwaukee, Wis. Trench-sandal. (Reissue.) No. 14,934; Aug. 17; v. 277; p. 547.
Roe, Emil W. K., assignor to The Aldon Company, Chicago, Ill. Car-replacer. No. 1,329,854; Feb. 3; v. 271; p. 96.
Roe, Harry H., Pretoria, South Africa. Lock for meters, &c. No. 1,343,851; June 15; v. 275; p. 556.
Roe, John J. A., Manchester, England. Ventilator. No. 1,340,673; May 18; v. 274; p. 513.
Roe, John P. (See Shields, H. F. H., and Roe.)
Roe, John P., London, England. Means for protecting ships. No. 1,338,530; Apr. 27; v. 273; p. 739.
Roe, John P., Finsbury, London, England. Endless conveyer. No. 1,363,533; Dec. 28; v. 281; p. 641.
Roe Metal Sandal Company. (Reissue.) (See Roe, Charles O., assignor.)
Roe, Noble H., Marceline, Mo. Rail-joint. No. 1,341,931; June 1; v. 275; p. 63.
Roe, William C., Pittsburgh, Pa., assignor of one-half to W. C. Handlan, Wheeling, W. Va. Train-control system for toy railways. No. 1,327,215; Jan. 6; v. 270; p. 63.
Roebuck, Alvah C., Evanston, Ill. Safety-razor. No. 1,336,923; Apr. 13; v. 273; p. 292.
Roebuck, Mathew P. (See Martin, W. A., and Roebuck.)
Roehr, Ada, Brooklyn, N. Y. Clothespin. No. 1,349,224; Aug. 10; v. 277; p. 264.
Roehrich, Victor H., St. Paul, Minn. Pneumatic injector for puncture-closing compound. No. 1,363,920; Dec. 28; v. 281; p. 716.
Roehrig, Bernard F., Pasadena, Calif. Capping bottles. No. 1,339,370; May 4; v. 274; p. 133.
Roelker, Hugo B. (See Klein, Mathias J., assignor.)
Roemer, Arthur, Chicago, Ill., assignor to Roemer Manufacturing Company. Phonograph-motor. No. 1,343,584; June 15; v. 275; p. 503.
Roemer, Arthur, assignor to Roemer Manufacturing Company, Chicago, Ill. Spring-motor construction. No. 1,363,484; Dec. 28; v. 281; p. 681.
Roemer Manufacturing Company. (See Roemer, Arthur.)
Roemheld, Jules E., assignor to Great Lakes Dredge and Dock Company, Chicago, Ill. Car-dumper. No. 1,360,583; Nov. 30; v. 280; p. 881.
Roesch, Alfred, assignor to Charles J. Tagliabue Manufacturing Co., Brooklyn, N. Y. Temperature-controller. No. 1,333,221; Mar. 9; v. 272; p. 250.
Roesch, Alfred, assignor to Charles J. Tagliabue Manufacturing Co., Brooklyn, N. Y. Measuring instrument. No. 1,351,130; Aug. 31; v. 277; p. 817.
Roesch, Alfred, assignor to Charles J. Tagliabue Manufacturing Co., Brooklyn, N. Y. Sensitive member. No. 1,359,107; Nov. 16; v. 280; p. 477.
Roesch, Daniel, Chicago, Ill. Automatic spark-controlling device. No. 1,328,453; Jan. 20; v. 270; p. 393.
Roeschel, Richard C., Harrisburg, Pa. Chemical bank and vault protector. No. 1,355,063; Oct. 5; v. 279; p. 122.
Roeske, William A., McKee City, N. J. Level and tube-holder therefor. No. 1,348,742; Aug. 3; v. 277; p. 117.
Roesler, Emil. (See Erler, B. G., and Roesler.)
Roessler & Hasslacher Chemical Co., The. (See Anders, Hanns R., assignor.)
Roessler & Hasslacher Chemical Co., The. (See Foersterling H., Philipp, and Sargent, assignors.)
Roessler & Hasslacher Chemical Co., The. (See Liebknecht, Otto, assignor.)
Roessling, Otto H., assignor to Charles Beck Company, Philadelphia, Pa. Electric cutter for paper-tube machines. No. 1,360,029; Nov. 23; v. 280; p. 705.
Roever, August E., Brooklyn, N. Y. Vacuum-nozzle for sifting ashes. No. 1,355,507; Oct. 12; v. 279; p. 262.
Roever, August E., Brooklyn, N. Y. Vacuum ash-sifter. No. 1,355,508; Oct. 12; v. 279; p. 262.
Roffels, Frank J., Helena, Mont. Envelop for burning tobacco. No. 1,339,577; May 11; v. 274; p. 248.
Roffy, Joseph T., Pittsburgh, Pa. Carbureter. No. 1,338,330; Apr. 27; v. 273; p. 702.
Rogan, Patrick F., St. Marys, Pa. Off-bearing machine. No. 1,362,268; Dec. 14; v. 281; p. 304.
Rogatchoff, Theodore, Baltimore, Md. Self-lubricating piston. No. 1,330,748; Feb. 10; v. 271; p. 294.
Rogati, Agostino and L. Aronne, New York, N. Y. Sound-box for phonographs. No. 1,346,685; July 13; v. 276; p. 329.
Roger, Joseph, Paris, France. Apparatus for massaging the eyes. No. 1,346,724; July 13; v. 276; p. 337.
Rogers, Alfred P., Newton, Mass. Orthodontic apparatus. No. 1,363,534; Dec. 28; v. 281; p. 641.
Rogers, Allen, Brooklyn, N. Y. Making leather. No. 1,346,385; July 13; v. 276; p. 270.
Rogers, Allen, Brooklyn, assignor to The Ocean Leather Co., New York, N. Y. Treating shark-skins and the like preparatory to tanning. No. 1,338,531; Apr. 27; v. 273; p. 789.
Rogers, Charles A., assignor, by mesne assignments, to Rogers Tractor and Trailer Company, Albion, Pa. Tractor. No. 1,356,789; Oct. 26; v. 279; p. 599.
Rogers, Clarence E., Oakland, Calif. Method of and apparatus for fault location on electrical conductors. No. 1,329,432; Feb. 3; v. 271; p. 16.
Rogers Company, The. (See Vick, Odin, assignor.)
Rogers, David E., Dunlap, Iowa. Clothesline-support. No. 1,329,855; Feb. 3; v. 271; p. 96.
Rogers, Edwin, Aurora, Ill. Rail-fastening for concrete tires. No. 1,358,468; Nov. 9; v. 280; p. 308.
Rogers, Edwin M., New York, N. Y. Air-lift apparatus. No. 1,339,137; May 4; v. 274; p. 92.
Rogers, Ernest, Cleveland, Ohio. Spark-plug. No. 1,340,674; May 18; v. 274; p. 514.
Rogers Fibre Company. (See Jacquemin, Auguste F., assignor.)
Rogers, Frank B., Belleville, Ill. Cane-mill. No. 1,355,620; Oct. 12; v. 279; p. 283.
Rogers, Frank J., Detroit, Mich. Device for the prevention of stammering. No. 1,327,407; Jan. 6; v. 270; p. 98.
Rogers, George D., Gloucester, Mass. Extracting oils from fatty substances. No. 1,326,968; Jan. 6; v. 270; p. 17.
Rogers, George D., Cleveland, Ohio. High-tension discharge apparatus. (Reissue.) No. 14,896; June 22; v. 275; p. 772.
Rogers, Harry M., Petersburg, Va. Humidifier. No. 1,329,143; Jan. 27; v. 270; p. 552.
Rogers, Henry J. (See Ramsay, Arthur D., assignor.)
Rogers, Henry L., Toronto, Ontario, Canada. Internal-combustion engine. No. 1,362,541; Dec. 14; v. 281; p. 357.

Digitized by Google

Rogers, Homer S., assignor to J. R. Ball, Milwaukee, Wis. Pneumatic pump. No. 1,339,224; May 4; v. 274; p. 106.
Rogers, Howard C. (See Schroeder, Albert, assignor.)
Rogers, James E., assignor of one-third to P. U. Sunderland, Danbury, Conn. Antiskid device. No. 1,328,297; Jan. 20; v. 270; p. 363.
Rogers, James E., assignor of one-third to P. U. Sunderland, Danbury, Conn. Antiskid device. No. 1,328,298; Jan. 20; v. 270; p. 364.
Rogers, James F., Lakewood, Ohio. Buckle. No. 1,355,621; Oct. 12; v. 279; p. 283.
Rogers, James H., Hyattsville, Md. Radiosignaling system. No. 1,349,103; Aug. 10; v. 277; p. 240.
Rogers, James H., Hyattsville, Md. Radiosignaling system. No. 1,349,104; Aug. 10; v. 277; p. 241.
Rogers, Joel H., Jacksonville, Fla. Bracket. No. 1,340,684; May 18; v. 274; p. 516.
Rogers, John A., Atlanta, assignor to H. S. Cohen, Marietta, Ga. Coin-assorter. No. 1,327,357; Jan. 6; v. 270; p. 89.
Rogers, John F., Cleveland Heights, and J. S. McClimon, assignors to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Feeding mechanism for gas-producers. No. 1,330,749; Feb. 10; v. 271; p. 294.
Rogers, John F., Cleveland Heights, J. S. McClimon, and R. Wetherill, Jr., assignors to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Fuel-feeding apparatus for gas-producers. No. 1,331,785; Feb. 24; v. 271; p. 577.
Rogers, John R., Brooklyn, N. Y. Clutch. No. 1,327,880; Jan. 13; v. 270; p. 248.
Rogers, John R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Printing-form. No. 1,333,938; Mar. 16; v. 272; p. 445.
Rogers, Leon V., Los Angeles, Calif. Fractionating column. No. 1,363,485; Dec. 28; v. 281; p. 632.
Rogers, Manuel L., Johannesburg, Calif. Concentrator. No. 1,343,683; June 15; v. 275; p. 523.
Rogers, Richard H., London, England. Wheel or pulley. No. 1,346,511; July 13; v. 276; p. 295.
Rogers, Samuel, Anderson, Ind., assignor to The Remy Electric Company. Coil-winding form. No. 1,347,521; July 27; v. 276; p. 610.
Rogers, Samuel, Anderson, Ind., assignor to The Remy Electric Company. Unwinding device. No. 1,348,321; Aug. 3; v. 277; p. 38.
Rogers, Solomon D., Sacramento, assignor to Commercial Cars Construction Co., San Francisco, Calif. Railway-car. No. 1,350,567; Aug. 24; v. 277; p. 647.
Rogers, Stewart A., Buenos Aires, Argentina. Cable or monorail tramway and vehicles for the same. No. 1,342,926; June 8; v. 275; p. 311.
Rogers Tractor and Trailer Company. (See Rogers, Charles A., assignor.)
Rogers, Tyler A., and J. E. Reid, Portland, Oreg. Mechanism for washing, sizing, and concentrating black sands and their inherent metals. No. 1,363,207; Dec. 21; v. 281; p. 538.
Rogers, Walter F., Chicago, Ill. Stove. No. 1,355,848; Oct. 19; v. 279; p. 368.
Rogers, William A. (See Kellogg, Neff, Rogers, and Cowan.)
Rogers, William D., Newton, Kans., and H. E. Merrill, Mount Washington, Mo. Machine for placing loaves in pans. No. 1,357,476; Nov. 2; v. 280; p. 52.
Rogers, William I., Birmingham, England. Body of motor road-vehicles. No. 1,353,787; Sept. 21; v. 278; p. 502.
Rogers, William T., assignor of one-half to V. R. Wilkinson, Kansas City, Mo. Changeable sign. No. 1,362,542; Dec. 14; v. 281; p. 357.
Rogers, William W., Hermiston, Oreg. Scale. No. 1,335,604; Mar. 30; v. 272; p. 865.
Rogers, Yubie W., St. Louis, Mo. Combination-chair. No. 1,357,255; Nov. 2; v. 280; p. 11.
Rogge, George H. and H. F., Dayton, Ohio. Tire-carrier. No. 1,361,745; Dec. 7; v. 281; p. 153.
Rogge, Harry F. (See Rogge, George H. and H. F.)
Roggenger, John, Chicago, Ill. Extension-table. No. 1,335,859; Apr. 6; v. 273; p. 29.
Rogness, Edwin L., Kenneth, Minn. Riveting-tool. No. 1,331,381; Feb. 17; v. 271; p. 480.
Rozowski, Felix, Chicago, Ill. Razor-sharpener. No. 1,350,884; Aug. 24; v. 277; p. 706.
Rogozes, Sava, Paris, France. Torpedo-shooting device. No. 1,336,656; Apr. 13; v. 273; p. 239.
Rohbock, William L., Cleveland, Ohio. Fastening device. No. 1,352,918; Sept. 14; v. 278; p. 271.
Rohde, Otto C., assignor to Champion Spark Plug Company, Toledo, Ohio. Spark-plug. No. 1,335,797; Apr. 6; v. 273; p. 18.
Rohder, Carl A., Denver, Colo. Sanitary device for removing contents of bottles. No. 1,335,029; Mar. 30; v. 272; p. 758.
Rohlff, Herman, Davenport, Iowa. Ever-set cage-trap. No. 1,347,407; July 20; v. 276; p. 531.
Rohm & Haas Company. (See Koetble, Arthur, assignor.)
Rohman, Harry D., New York, N. Y., assignor, by mesne assignments, to J. Stone & Company, Limited, Deptford, England. Device for preventing excessive wear on car-lighting dynamos. No. 1,338,041; Apr. 27; v 273; p. 647.
Rohman, Harry D., New York, N. Y., assignor, by mesne assignments, to J. Stone & Company, Limited, Deptford, England. Frame for lamp resistances. No. 1,349,583; Aug. 17; v. 277; p. 409.
Rohman, Harry D., New York, N. Y., assignor, by mesne assignments, to J. Stone & Company, Limited, Deptford, England. Reversing brush-gear for dynamo-electric machines. No. 1,349,584; Aug. 17; v. 277; p. 409.
Rohman, Harry D., New York, N. Y., assignor, by mesne assignments, to J. Stone & Company Limited, Deptford, England. Car-lighting system. No. 1,351,788; Sept. 7; v. 278; p. 14.
Rohmer, Gabriel E., Brooklyn, N. Y. Shoe heel. No. 1,356,829; Oct. 26; v. 279; p. 607.
Rohmer, Gabriel E., Brooklyn, N. Y. Vault-light. No. 1,363,016; Dec. 21; v. 281; p. 501.
Rohne Dishwasher Company. (See Rohne, Even J., assignor.)
Rohne, Even J., Minneapolis, Minn. Electric heater for steering-wheels. No. 1,345,249; June 29; v. 275; p. 957.
Rohne, Even J., assignor to Rohne Dishwasher Company, Minneapolis, Minn. Dish-washing machine. No. 1,348,322; Aug. 3; v. 277; p. 38.
Rohrbach, George C., Allentown, Pa., assignor to Bonney Vise & Tool Works, Inc., Philadelphia, Pa. Safety locking device for hooks. No. 1,356,830; Oct. 26; v. 279; p. 608.
Rohrbaugh, John J., Hopewell, Va. Flag-halyard. No. 1,360,584; Nov. 30; v. 280; p. 881.
Rohrer, Daniel, Spokane, Wash. Pocket-knife. No. 1,362,142; Dec. 14; v. 281; p. 279.
Rohrer, Daniel, Spokane, Wash. Pocket-knife. No. 1,362,143; Dec. 14; v. 281; p. 279.
Rohrgenwerk, G. M. B. H. (See Böhling, Rudolph H., assignor.)
Roikjer, Andrew H., Boise, Idaho. Film and shutter controlling device for cameras. No. 1,331,852; Feb. 24; v. 271; p. 591.
Roirant, Emile, assignor to A. Wilzin, St.-Ouen, France. Glass shaping and blowing machine. No. 1,337,723; Apr. 20; v. 273; p. 517.
Rolaff, Walter G. E., Bellville, Ill. Rotary-piston packing. No. 1,358,176; Nov. 9; v. 280; p. 248.
Roland, Charles B., Seattle, Wash. Musical instrument. No. 1,358,177; Nov. 9; v. 280; p. 249.
Roland & Whytock Company. (See Bainton, George W., assignor.)
Rolen, John P., Knoxville, Tenn., assignor to Draper Corporation, Hopedale, Mass. Filling, clamping, and parting mechanism for looms. No. 1,341,022; May 25; v. 274; p. 651.
Rolf, Aaron E., Blaisdell, N. D. Auto-hub attachment. No. 1,361,496; Dec. 7; v. 281; p. 104.
Rolfe, Alfred, Brockville, Ontario, Canada. Clip. No. 1,337,963; Apr. 20; v. 273; p. 563.
Rolfe, Charles A., Redlands, Calif. Golf game. No. 1,338,963; May 4; v. 274; p. 58.
Rolfe, Charles A., St. Paul, Minn. Shirt-cuff. No. 1,360,687; Nov. 30; v. 280; p. 901.
Rolfes, George H., assignor to Handlan Buck Manufacturing Company, St. Louis, Mo. Lantern-bail. No. 1,327,293; Jan. 6; v. 270; p. 77.
Rolfes, George H., assignor to Handlan-Buck Manufacturing Company, St. Louis, Mo. Lantern-burner. No. 1,337,795; Apr. 20; v. 273; p. 531.
Roline, C. G., and C. Norre, Chicago, Ill. Reamer for engine-cylinders and the like. No. 1,360,444; Nov. 30; v. 280; p. 854.
Rolland, Thomas H., Phillips county, Kans. Drag. No. 1,331,382; Feb. 17; v. 271; p. 481.
Roller, Frank W., East Orange, N. J., assignor to Roller-Smith Company. Circuit-breaker. No. 1,339,981; May 11; v. 274; p. 325.
Roller, Frank W., East Orange, N. J., assignor to Roller-Smith Company. Circuit-breaker. No. 1,341,678; June 1; v. 275; p. 13.
Roller-Smith Company. (See Roller, Frank W., assignor.)
Rollins, George L., Kansas City, Mo. Sanitary drain. No. 1,363,535; Dec. 28; v. 281; p. 642.
Rollins, Martin P., Cherrydale, Va. Support for multigraph-segments. No. 1,338,064; May 4; v. 274; p. 58.
Rollins, William C., assignor of one-third to E. A. Weden and one-third to J. H. Smalley, Minneapolis, Minn. Spark-plug. No. 1,333,037; Mar. 9; v. 272; p. 216.
Rollins, Wingate, Hyde Park, Mass. Carbureter. No. 1,360,445; Nov. 30; v. 280; p. 854.
Rollman, Bruce B. (See Synck, H., and Rollman.)
Rolls-Royce, Limited. (See Royce, Frederick H., assignor.)
Rolph, Thomas W. (See Minor, W. F., Keller, and Rolph.)
Rolston, Emmett H. (See Meador, William C., assignor.)
Rolston, Richard P., Boonton, N. J. Jar-carrier. No. 1,360,977; Nov. 30; v. 280; p. 958.
Romadka, Rudolph, Milwaukee, Wis. Car-wheel. No. 1,350,738; Aug. 24; v. 277; p. 679.
Romaine, John C., San Francisco, Calif. Reflector. No. 1,330,009; Feb. 3; v. 271; p. 124.
Roman, Charles A., assignor of one-fifth to J. J. Smith, Oklahoma, Okla. Amusement device. No. 1,329,856; Feb. 3; v. 271; p. 96.

Digitized by Google

Roman, James G., Wilmington, Del. Compound for external application. No. 1,350,842; Aug. 24; v. 277; p. 699.
Roman, James G., Wilmington, Del. Hair and scalp remedy. No. 1,350,843; Aug. 24; v. 277; p. 699.
Romaniello, Leonard, Dunmore, Pa. Revolving toy. No. 1,337,483; Apr. 20; v. 273; p. 471.
Romanoff, Hippolyte, New York, N. Y. Soldering-tool. No. 1,357,425; Nov. 2; v. 280; p. 42.
Romig, James E., Roslyn, Pa. Container. No. 1,360,688; Nov. 30; v. 280; p. 901.
Romig, James J., Terminal, Calif. Blaze-plug. No. 1,332,636; Mar. 2; v. 272; p. 88.
Romig, Joseph V., Allentown, Pa. Combination micrometer-calipers. No. 1,361,406; Dec. 7; v. 281; p. 85.
Rommerdale, Holger, Erie, Pa. Removing stratified rock. No. 1,332,689; Mar. 2; v. 272; p. 98.
Romstead, John, Seattle, Wash. Water-heater for gas-stoves. No. 1,356,089; Oct. 19; v. 279; p. 415.
Ronca, Louis. (See Massoline, P. D., and Ronca.)
Ronda, August C. (See Nagel, Henry W., assignor.)
Ronco Limited. (See Chipperfield, Walter, assignor.)
Roney, Alexander B., Chicago, Ill. Air tractor-engine. No. 1,330,346; Feb. 10; v. 271; p. 219.
Roney, Alexander B., Chicago, Ill. Flying-machine. No. 1,348,743; Aug. 3; v. 277; p. 118.
Ronning, Adolph. (See Ronning, Andrean G. and A.)
Ronning, Andrean G. and A., Minneapolis, Minn. Combination tractor implement. No. 1,340,461; May 18; v. 274; p. 473.
Rontey, Pierre A., Coscob, Conn. Collar-button. No. 1,348,450; Aug. 3; v. 277; p. 63.
Rood, William B., and E. S. Johnson, Webster City, Iowa. Heat-insulated container. No. 1,362,740; Dec. 21; v. 281; p. 447.
Roof, Daniel J., Gilbert, S. C. Reversible or sidehill plow. No. 1,332,272; Mar. 2; v. 272; p. 18.
Roofing Patents Company, The. (See Speer, Alexander S., assignor.)
Rooker, Johannes G. F., Vryenban, near Delft, assignor to Firma A. De Jong, Scheepswerf en Machinefabriek, Vlaardingen, Netherlands. Embroidering-machine. No. 1,348,054; July 27; v. 276; p. 717.
Roome, Clem, and W. H. Haas, Raub, Ind. Wrench. No. 1,335,030; Mar. 30; v. 272; p. 758.
Rooney, John J., Brooklyn, N. Y. Safety-fuse. No. 1,362,741; Dec. 21; v. 281; p. 447.
Rooney, Patrick J., New Rochelle, N. Y. Rotary reciprocating double-acting pump. No. 1,362,144; Dec. 14; v. 281; p. 280.
Roos, Alphonse, Chicago, Ill. Hydraulic motor for churn-operating devices. No. 1,338,399; Apr. 27; v. 273; p. 714.
Roos, Charles J., Chicago, Ill. Internal-combustion engine. No. 1,361,619; Dec. 7; v. 281; p. 129.
Roos, Delmar G., assignor to The Locomobile Company of America, Bridgeport, Conn. Oiling device. No. 1,338,160; Apr. 27; v. 273; p. 670.
Roos, Delmar G., Fairfield, Conn., assignor to The Locomobile Company of America, New York, N. Y. Electric switch. No. 1,342,229; June 1; v. 275; p. 121.
Roos, Delmar G., assignor to The Locomobile Company of America, Bridgeport, Conn. Power-transmitting mechanism. No. 1,345,462; July 6; v. 276; p. 26.
Roos, Delmar G., assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn. Engine-indicator. No. 1,349,346; Aug. 10; v. 277; p. 289.
Roos, William F., Mamaroneck, N. Y. Projectile. No. 1,351,540; Aug. 31; v. 277; p. 899.
Roosa, Frank A., Orange township, Blackhawk county, assignor to Pioneer Manufacturing Company, Waterloo, Iowa. Filler-body for packer-heads of tile-machines. No. 1,355,913; Oct. 9; v. 279; p. 380.
Root, A. I., Company, The. (See Blanchard, Herbert C., assignor.)
Root, A. I., Company. (See Root, Huber H., assignor.)
Root, Chapman J. (See Miller, Edward, assignor.)
Root, Floyd A., Lockport, N. Y. Advertising-sign. No. 1,338,532; Apr. 27; v. 273; p. 739.
Root, Huber H., assignor to A. I. Root Company, Medina, Ohio. Centrifugal honey-extractor. No. 1,363,999; Dec. 28; v. 281; p. 731.
Root, Lemma J., Clarkston, Wash. Automatic control for air-brake systems. No. 1,330,395; Feb. 10; v. 271; p. 228.
Root, Lemma J., Clarkston, Wash. Rotary internal-combustion engine. No. 1,332,756; Mar. 2; v. 272; p. 111.
Root, Orvia L., and C. Brainard, Binghamton, N. Y. Automobile traffic-signal. No. 1,332,575; Mar. 2; v. 272; p. 77.
Root, Ralph C. (See Ricker, Chester S.)
Root, Ralph C., assignor to Service Products Corporation, Indianapolis, Ind. Fan construction. No. 1,347,522; July 27; v. 276; p. 610.
Root, Ralph R., Cleveland, Ohio. Electric signaling device. No. 1,328,454; Jan. 20; v. 270; p. 393.
Root, Ralph R., assignor to The Globe Machine and Stamping Company, Cleveland, Ohio. Bottle-capping machine. No. 1,359,534; Nov. 23; v. 280; p. 606.
Root, Ruby, San Diego, Calif. Button-fastener. No. 1,347,759; July 27; v. 276; p. 659.
Roots, Richard W., Ballarat, Victoria, Australia, assignor of one-third to S. Roots, Ballarat, Victoria, Australia, and one-third to J. Falconer, Wellington, New Zealand. Oil-filter. No. 1,350,521; Aug. 24; v. 277; p. 637.
Roots, Stanley, *et al.* (See Roots, Richard W., assignor.)
Ropes, Elihu H. (See Boerner, E. G., and Ropes.)
Ropeways Limited. (See Shields, H. F. H., and Roe, assignors.)
Roppo, Dominic, *et al.* (See Pain, William, assignor.)
Rosche Fluid Transmission, The. (See Rosche, Joseph W., assignor.)
Rosche, Joseph W., assignor to The Rosche Fluid Transmission Company, Minneapolis, Minn. Hydraulic transmission mechanism. No. 1,343,338; June 15; v. 275; p. 454.
Rose, Aaron M., *et al.* (See Sarjeant, Alexander J., assignor.)
Rose, Alonzo N., Mount Vernon, N. Y. Measuring-liquid dispenser. No. 1,350,739; Aug. 24; v. 277; p. 680.
Rose, Benjamin H., Lakewood, Ohio. Means for stacking tire-molds. No. 1,338,844; May 4; v. 274; p. 36.
Rose, Benjamin H., Lakewood, Ohio. Tire-vulcanizing mechanism. No. 1,362,189; Dec. 14; v. 281; p. 288.
Rose Brothers (Gainsborough). (See Rose, William, assignor.)
Rose, Edward J. (See Phillips, F. J., and Rose.)
Rose, Harry B., and W. B. Enck, Buffalo, N. Y. Annealing-box. No. 1,340,675; May 18; v. 274; p. 514.
Rose, Isabell M., Leroy, Tex. Percolator. No. 1,337,964; Apr. 20; v. 273; p. 563.
Rose, J. R. (See Harris, John, assignor.)
Rose, James R., Edgeworth, Pa. Manufacturing gaseous fuel. No. 1,339,225; May 4; v. 274; p. 107.
Rose, James R., Edgeworth, Pa. Process of and apparatus for producing carbon and gaseous fuel. No. 1,352,085; Sept. 7; v. 278; p. 72.
Rose, James R., Edgeworth, Pa. Producing carbon and gaseous fuel, No. 1,352,086; Sept. 7; v. 278; p. 72.
Rose, John G., Garwood, N. J. Ice-cutter. No. 1,360,446; Nov. 30; v. 280; p. 854.
Rose, John H., Holyoke, Mass. Swivel-truck. No. 1,346,466; July 13; v. 276; p. 286.
Rose, Joseph B., Wheeling, W. Va. Gage. No. 1,333,996; Mar. 16; v. 272; p. 457.
Rose Lithographic Corporation. (See Gray, Robert L., assignor.)
Rose, Maxwell C., assignor to The Cleveland-Akron Bag Co., Cleveland, Ohio. Machine for making valved paper bags. No. 1,351,219; Aug. 31; v. 277; p. 834.
Rose, Maxwell C., assignor to The Cleveland-Akron Bag Co., Cleveland, Ohio. Valve-bags. No. 1,356,114; Oct. 19; v. 279; p. 420.
Rose, Osbourne J. (See Clayton, H. R. H., and Rose.)
Rose, Ralph D., Johnstown, Pa. Retaining device for switch-points. No. 1,333,096; Mar. 9; v. 272; p. 227.
Rose, Robert W., Clifton, assignor to Lally Commercial Body Company, Everett, Mass. Dumping vehicle-body and hoist therefor. No. 1,351,719; Aug. 31; v. 277; p. 933.
Rose, Samuel S., assignor of one-half to W. H. Weller, San Jose, Calif. Driven steering-wheel for vehicles. No. 1,347,293; July 20; v. 276; p. 509.
Rose, Sandford C., Port Angeles, Wash. Wheel. No. 1,339,376; May 4; v. 274; p. 134.
Rose, William, Chicago, Ill. Liquid-measuring device. No. 1,327,686; Jan. 13; v. 270; p. 212.
Rose, William, assignor to Rose Brothers, (Gainsborough) Limited, Gainsborough, England. Bag-machine. No. 1,354,339; Sept. 28; v. 278; p. 657.
Rose, William D. (See White, John W., assignor.)
Rose, William H., Jersey City, N. J. Container. No. 1,361,618; Dec. 7; v. 281; p. 129.
Roseberry, Robert E., Detroit, Mich. Babbitting-jig for engine-crank-shaft bearings. No. 1,358,578; Nov. 9; v. 280; p. 329.
Roseboom, Jesse G., Cincinnati, Ohio. Signal for motor-vehicles. No. 1,353,361; Sept. 21; v. 278; p. 416.
Rosebourne, Mostyn, Manchester, and F. A. Couse, Urmston, England, assignors to Westinghouse Electric and Manufacturing Company. Automatic protective gear for electrical systems. No. 1,329,255; Jan. 27; v. 270; p. 578.
Rosecrans, Charles D., Honolulu, Hawaii. Valve-grinder cup. No. 1,334,797; Mar. 23; v. 272; p. 654.
Rosedale Foundry & Machine Company. (See Holt, Harris B., assignor.)
Roseman, Joseph A., Glenview, Ill. Grass-mowing machine. No. 1,327,924; Jan. 13; v. 270; p. 256.
Rosemire, Richard W., Walden, N. Y. Hat-frame. No. 1,341,679; June 1; v. 275; p. 13.
Rosen, Abraham, Rochester, N. Y. Lock for garters. No. 1,332,955; Mar. 9; v. 272; p. 201.
Rosen, Paul E., Madison, Wis. Garter. No. 1,351,872; Sept. 7; v. 278; p. 32.
Rosenbaum, Hellmuth R., Brooklyn, N. Y. Method of and means for extending the usable condition of metallic dies and tools. No. 1,340,913; May 25; v. 274; p. 629.
Rosenbaum, Rudolph R., assignor to Central Commercial Company, Chicago, Ill. Manufacture of asphalt. No. 1,332,359; Mar. 2; v. 272; p. 86.

Digitized by Google

Rosenberg, Dora, administratrix. (See Rosenberg, Samuel.)

Rosenberg, Heyman, New York, N. Y. Automobile-wrench combination. No. 1,358,496; Sept. 21; v. 278; p. 443.

Rosenberg, Isadore, Port Chester, N. Y. Combination valve-grinder and breast-drill. No. 1,352,476; Sept. 14; v. 278; p. 182.

Rosenberg, Oliver H., Terrell, Tex. Ground-mulching and insect-displacing drag. No. 1,357,905; Nov. 2; v. 280; p. 134.

Rosenberg, Ralph H. (See Carter, George M., assignor.)

Rosenberg, Samuel, deceased, Chicago, Ill.; D. Rosenberg, administratrix. Windshield-hinge. No. 1,348,376; Aug. 3; v. 277; p. 49.

Rosenberg, Sidney C., New Haven, Conn. Wrench. No. 1,346,061; July 6; v. 276; p. 145.

Rosenberg, Solomon, New York, N. Y., assignor to The Belle Hat Lining Co. Inc. Hat-lining. No. 1,357,067; Oct. 26; v. 279; p. 654.

Rosenberger, C. V., *et al.* (See Jochumsen, J., and Nettcott, assignors.)

Rosenberger, Charles B., Pittsburgh, Pa. Game-board. No. 1,337,274; Apr. 20; v. 273; p. 432.

Rosenberger, William, assignor to The Will & Baumer Company, Syracuse, N. Y. Sanctuary oil-lamp. No. 1,345,960; July 6; v. 276; p. 125.

Rosenblum, Henry I., New York, N. Y. Machine for laying fabrics. No. 1,343,339; June 15; v. 275; p. 454.

Rosenblum, Henry I., New York, N. Y. Clamp device. No. 1,349,225; Aug. 10; v. 277; p. 265.

Rosenbluth, Edwin M., Wallingford, Pa. Lantern. No. 1,351,067; Aug. 31; v. 277; p. 805.

Rosenbrook, August C., Madison, Wis. Valve-tool. No. 1,339,422; May 11; v. 274; p. 218.

Rosendahl, Nils M., Winthrop Harbor, Ill., assignor to F. C. Austin, Chicago, Ill. Batchometer. No. 1,336,586; Apr. 13; v. 273; p. 226.

Rosendahl, Nils M., Winthrop Harbor, assignor to Frederick C. Austin, Chicago, Ill. Street-flusher and oil-distributer and spraying-machine. No. 1,357,592; Nov. 2; v. 280; p. 73.

Rosenfeld, Francis M., New York, N. Y., assignor, by mesne assignments, to Diamond Electric Specialties Corp., Newark, N. J. Lamp-support. No. 1,348,665; Aug. 3; v. 277; p. 104.

Rosenfeld, Francis M., New York, N. Y., assignor, by mesne assignments, to Diamond Electric Specialties Corp., Newark, N. J. Portable lamp. No. 1,355,849; Oct. 19; v. 279; p. 368.

Rosenfeld, Isaac, Malden, Mass. Protector for hats and caps. No. 1,331,876; Feb. 24; v. 271; p. 595.

Rosenfeld, Leo, New York, N. Y. Repair part or section for heels. No. 1,345,886; July 6; v. 276; p. 110.

Rosenfeld, Louis, Baltimore, Md. Dispensing or measuring device. No. 1,332,998; Mar. 9; v. 272; p. 209.

Rosenfeld, Maurice S., assignor, by mesne assignments, to J. Schechter, New York, N. Y. Apparatus for repairing moving-picture films. No. 1,328,056; Jan. 13; v. 270; p. 281.

Rosenfeld, Maurice S., New York, N. Y., assignor, by mesne assignments, to Decalmo Machine Co., Inc. Method of and apparatus for winding take-up reels. No. 1,331,578; Feb. 24; v. 271; p. 538.

Rosenfeld, Maurice S., New York, N. Y., assignor to Decalmo Machine Co., Inc. Printing-press. No. 1,331,579; Feb. 24; v. 271; p. 538.

Rosenfeld, Maurice S., New York, N. Y., assignor to Decalmo Machine Co., Inc. Decalcomania-transferring machine. No. 1,331,580; Feb. 24; v. 271; p. 539.

Rosenfeld, Maurice S., Newark, N. J., assignor to Decalmo Machine Company, Inc. Decalcomania and making same. No. 1,331,581; Feb. 24; v. 271; p. 539.

Rosenfeld, Maurice S., Newark, N. J., assignor to Decalmo Machine Company, Inc. Removing surplus powder from surfaces. No. 1,331,582; Feb. 24; v. 271; p. 539.

Rosenfeld, Maurice S., Newark, N. J., assignor to Decalmo Machine Company, Inc. Machine for removing surplus powder from surfaces. No. 1,331,583; Feb. 24; v. 271; p. 539.

Rosenfeld, Maurice S., Newark, N. J., assignor to Decalmo Machine Company, Inc. Winding mechanism. No. 1,331,584; Feb. 24; v. 271; p. 539.

Rosenfeld, Max C., Boston, Mass. Tool for removing and attaching bottle-caps. No. 1,360,321; Nov. 30; v. 280; p. 830.

Rosenfeld, Mortimer C., Cleveland, Ohio. Outlet-box support. No. 1,332,690; Mar. 2; v. 272; p. 98.

Rosenfeld, Mortimer C., Cleveland, Ohio. Faucet-supporting means. No. 1,339,578; May 11; v. 274; p. 249.

Rosenfeld, Mortimer C., assignor to The Adapti Company, Cleveland, Ohio. Conduit connection for outlet-boxes. No. 1,358,831; Oct. 26; v. 279; p. 608.

Rosenfeld, Nathan, assignor of one-half to B. Gluck, Brooklyn, N. Y. Apparatus for and method of preparing vegetables and fruits. No. 1,361,776; Dec. 7; v. 281; p. 159.

Rosenfeld, Sidney, Cleveland, Ohio. Faucet-supporting collar. No. 1,339,982; May 11; v. 274; p. 325.

Rosenfeld, James. (See Powell, Peter, assignor.)

Rosenfield, William W., New York, N. Y., assignor to Electric Vacuum Cleaner Company, Inc. Suction-cleaner. No. 1,348,582; Aug. 3; v. 277; p. 88.

Rosenfield, William W., New York, N. Y., assignor to Electric Vacuum Cleaner Company, Inc. Suction-cleaner. No. 1,348,583; Aug. 3; v. 277; p. 88.

Rosenfield, William W., New York, N. Y., assignor to Electric Vacuum Cleaner Company, Inc. Suction cleaning-nozzle. No. 1,348,584; Aug. 3; v. 277; p. 88.

Rosenfield, William W., New York, N. Y. Suction-cleaner. No. 1,348,585; Aug. 3; v. 277; p. 88.

Rosenfield, William W., New York, N. Y., assignor to Electric Vacuum Cleaner Company, Inc. Suction-cleaner. No. 1,348,586; Aug. 3; v. 277; p. 88.

Rosenfield, William W., White Plains, N. Y., assignor to Electric Vacuum Cleaner Company, Inc. Suction cleaning-nozzle. No. 1,348,587; Aug. 3; v. 277; p. 89.

Rosengren, Anders A., Malmö, Sweden. Device for feeding bottles or other vessels to machines intended for treating them. No. 1,344,653; June 29; v. 275; p. 843.

Rosengren, Anders A., Malmö, Sweden. Tapping apparatus. No. 1,347,914; July 27; v. 276; p. 689.

Rosenhagen, Victor, Bellevue, Ky. Centrifugal vacuum-pump. No. 1,354,340; Sept. 28; v. 278; p. 657.

Rosenleld, Francis M., New York, N. Y., assignor, by mesne assignments, to Diamond Electric Specialties Corp., Newark, N. J. Lamp-support. No. 1,346,913; July 20; v. 276; p. 434.

Rosenquist, Anton, assignor of one-fourth to J. Arceneau, Superior, Wis. Ax sheath or carrying case. No. 1,342,395; June 1; v. 275; p. 152.

Rosenthal, Arthur and M. G., Grand Rapids, Mich. Sewing-machine. No. 1,355,914; Oct. 19; v. 279; p. 380.

Rosenthal, Charles, New York, N. Y. Drinking-cup holder for water-bottles. No. 1,349,473; Aug. 10; v. 277; p. 314.

Rosenthal, Harris L., New York, N. Y. Chalk-sharpener. No. 1,332,068; Feb. 24; v. 271; p. 631.

Rosenthal, Harry, Regina, Saskatchewan, Canada. Pressure-regulator. No. 1,332,069; Feb. 24; v. 271; p. 631.

Rosenthal, Joe. (See McPherson, Arthur B., assignor.)

Rosenthal, Leon W., assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Magneto for irregular ignition. No. 1,341,282; May 25; v. 274; p. 700.

Rosenthal, Levi M., assignor to S. Rosenthal, New York, N. Y. Bottle-cap. No. 1,328,455; Jan. 20; v. 270; p. 393.

Rosenthal, Morris G. (See Rosenthal, Arthur and M. G.)

Rosenthal, Samuel. (See Rosenthal, Levi M., assignor.)

Rosentreter, Albert J., Boonton, N. J., assignor to E. Zabriskie, Maplewood, N. J., and F. E. Hutchins, New York, N. Y. Safety mechanism for elevator-shaft doors. No. 1,353,851; Sept. 28; v. 278; p. 558.

Rosentreter, Albert J., Boonton, assignor to E. Zabriskie, Maplewood, N. J., and F. E. Hutchins, New York, N. Y. Safety mechanism for elevator-shaft doors. No. 1,353,852; Sept. 28; v. 278; p. 558.

Rosenwasser, Paul M., assignor to The Maurice Company, Cleveland, Ohio. Measuring attachment for cans. No. 1,346,558; July 13; v. 276; p. 305.

Rosenzweig, Julius, New York, N. Y. Combined hat and bag. No. 1,361,289; Dec. 7; v. 281; p. 61.

Rösholt, Nils, assignor to N. A. Krag, Christiania, Norway. Locking mechanism for switch-points. No. 1,327,358; Jan. 6; v. 270; p. 89.

Rosler, Charles, New York, N. Y. Apparatus for drying coated films. No. 1,336,050; Apr. 6; v. 273; p. 65.

Rosinsky, John, Manitowoc, Wis. Potato chipper and slicer. No. 1,358,020; Nov. 9; v. 280; p. 218.

Roske, Samuel H., Minneapolis, Minn. Switch. No. 1,330,954; Feb. 17; v. 271; p. 402.

Rosner, Adolph, assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn. Fuel system for internal-combustion engines. No. 1,350,421; Aug. 24; v. 277; p. 617.

Rosner, Rudolf, Chicago, Ill. Milling and grinding tool holder. No. 1,329,857; Feb. 3; v. 271; p. 96.

Rosner, Rudolf, Chicago, Ill. Blower. No. 1,346,796; July 13; v. 276; p. 353.

Rosner, Rudolf, Chicago, assignor to Carter-Long Magneto Company, Waukegan, Ill. Induction-coil. No. 1,332,757; Mar. 2; v. 272; p. 111.

Rosner, Rudolf, Chicago, assignor to Carter-Long Magneto Company, Waukegan, Ill. Igniter. No. 1,332,758; Mar. 2; v. 272; p. 112.

Ross, Adam, Buffalo, N. Y. Rewinding-machine. No. 1,348,242; Aug. 3; v. 277; p. 23.

Ross, Albert S., Dallas, Tex. Tramper. No. 1,332,576; Mar. 2; v. 272; p. 77.

Ross, Allen R., Seattle, Wash. Baking-oven. No. 1,349,436; Aug. 10; v. 277; p. 307.

Ross, Archie C., Atchison, Kans. Awning-fastener. No. 1,349,532; Aug. 10; v. 277; p. 326.

Ross, Charles E., Lebanon, Ohio. Antislipping tire-armor. No. 1,340,629; May 18; v. 274; p. 505.

Ross, Charles J. Company. (See Arata, Antonio J., assignor.)

Ross Chemical Company. (See Miles, George W., assignor.)

Ross, Cleland C., Newburgh, N. Y. Stationary knife for lawn-mowers. No. 1,355,509; Oct. 12; v. 279; p. 262.

Digitized by Google

Ross, Clyde P., Kenilworth, assignor to Roberts & Schaefer Company, Chicago, Ill. Automatic traction-hoist. No. 1,352,632; Sept. 14; v. 278; p. 213.
Ross, David E., assignor to Ross Gear and Tool Company, La Fayette, Ind. Steering-gear. No. 1,331,026; Feb. 17; v. 271; p. 416.
Ross, David E., assignor to Ross Gear & Tool Company, La Fayette, Ind. Speed-reducing transmission-gearing. No. 1,358,788; Nov. 16; v. 280; p. 416.
Ross, David H., Long Beach, Calif. Circuit-controlling switch for headlights. No. 1,341,932; June 1; v. 275; p. 63.
Ross, E. W., Company, The. (See Morgal, John F., assignor.)
Ross, Edward T., Newark, N. J., and M. O. Trudeau, Woodmont, Conn. Driving-axle construction for vehicles. No. 1,338,042; Apr. 27; v. 273; p. 647.
Ross, Frank E., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic objective. No. 1,352,028; Sept. 7; v. 278; p. 61.
Ross, Fred, Papillion, Nebr. Carbureter control. No. 1,341,762; June 1; v. 275; p. 29.
Ross, Frederick M., and H. L. Cook, Cincinnati, Ohio; said Cook assignor to said Ross. Rim contracting or expanding tool. No. 1,330,349; Feb. 10; v. 271; p. 219.
Ross Gear and Tool Company. (See Ross, David E., assignor.)
Ross, Henry R., St. John, New Brunswick, Canada. Refrigerator-car. No. 1,352,532; Sept. 14; v. 278; p. 193.
Ross, Henry R., St. John, New Brunswick, Canada. Traveling refrigerating plant. No. 1,352,533; Sept. 14; v. 278; p. 193.
Ross, Herbert E., Sydney, New South Wales, Australia. Hook-link fastener for eyeleted wearing-apparel. No. 1,353,614; Sept. 21; v. 278; p. 468.
Ross, Herbert E., Sydney, New South Wales, Australia. Concrete building and concrete building construction. No. 1,355,572; Oct. 12; v. 279; p. 274.
Ross, James D., Seattle, Wash. Process and apparatus for ore separation. No. 1,328,456; Jan. 20; v. 270; p. 393.
Ross, James S., Westminster, London, England. Producing copper-sulfate solutions from ores. No. 1,350,239; Aug. 17; v. 277; p. 535.
Ross, John, assignor of one-half to L. J. Kutil, Ironwood, Mich. Non-siphoning trap. No. 1,327,116; Jan. 6; v. 270; p. 45.
Ross, John R., Boston, Mass. Hat-press element. No. 1,335,197; Mar. 30; v. 272; p. 789.
Ross, Lafayette, East Lynn, W. Va. Rotary crushing-mill. No. 1,340,407; May 18; v. 274; p. 463.
Ross, Leo S., Chicago, Ill. Spark-plug. No. 1,332,691; Mar. 2; v. 272; p. 98.
Ross, Louis S., Newtonville, Mass. Time-burning railway signal-fuse. No. 1,359,922; Nov. 23; v. 280; p. 683.
Ross Manufacturing Company, The. (See Ross, William E., assignor.)
Ross, Matt F., Windfall, Ind. Roller-bearing. No. 1,361,497; Dec. 7; v. 281; p. 105.
Ross, Oscar A. (See Gerli, P., and Ross.)
Ross, Oscar A., New York, N. Y. Military aeroplane or the like. No. 1,349,105; Aug. 10; v. 277; p. 241.
Ross, Percy A. (See Mershon, R. D., and Ross.)
Ross, R. L., and Company. (See Hargreaves, William, assignor.)
Ross, Robert J., Crosby, near Liverpool, England. Cradle-holder or save-all. No. 1,355,696; Oct. 12; v. 279; p. 298.
Ross, Scott C. (See Ruppel, Richard, assignor.)
Ross, Tim, Burlingame, Calif. Crosstie. No. 1,357,477; Nov. 2; v. 280; p. 52.
Ross, Torey. (See Folger, H. S., and Ross.)
Ross, Waldo A., Sioux Falls, S. D. Extinguishing fires in and about hydrocarbon-tanks and apparatus for carrying out same. No. 1,347,057; July 20; v. 276; p. 463.
Ross, Waldo A., Sioux Falls, S. D., assignor to The Armored Motor Car Co., Incorporated, Detroit, Mich. Armored motor-car. No. 1,333,446; Mar. 9; v. 272; p. 292.
Ross, Waldo A., Sioux Falls, S. D., assignor to The Armored Motor Car Company, Incorporated, Detroit, Mich. Armored motor-car. No. 1,358,579; Nov. 9; v. 280; p. 529.
Ross, Waldo A., Washington, D. C., assignor to The Armored Motor Car Company, Incorporated, Detroit, Mich. Landing-transport. No. 1,333,447; Mar. 9; v. 272; p. 292.
Ross, Waldo A., Washington, D. C., assignor to The Armored Motor Car Company, Incorporated, Detroit, Mich. Gun-mount. No. 1,333,448; Mar. 9; v. 272; p. 292.
Ross, Wilbert J., Riddle, Oreg. Saw-set. No. 1,361,777; Dec. 7; v. 281; p. 159.
Ross, William, Montreal, Quebec, Canada. Grizzly for ore separation. No. 1,332,305; Mar. 2; v. 272; p. 25.
Ross, William, Worcester, Mass. Shade-roller. No. 1,359,622; Nov. 23; v. 280; p. 623.
Ross, William D., Winnipeg, Manitoba, Canada. Collar-securing means. No. 1,331,725; Feb. 24; v. 271; p. 566.
Ross, William E., assignor to The Ross Manufacturing Company, Cleveland, Ohio. Wheel-dressers. No. 1,330,656; Feb. 10; v. 271; p. 276.
Ross, William E., assignor to The Ross Manufacturing Company, Cleveland, Ohio. Dressing-tool. No. 1,343,876; June 15; v. 275; p. 562.
Ross, William E., assignor to The Ross Manufacturing Company, Cleveland, Ohio. Dressing-tool. No. 1,348,323; Aug. 3; v. 277; p. 38.
Ross, William L., Jersey City, N. J. Tool-clamp. No. 1,350,240; Aug. 17; v. 277; p. 535.
Ross, William H., Washington, D. C. Removal of hydrofluoric acid from phosphoric acid. No. 1,329,273; Jan. 27; v. 270; p. 576.
Rosseau, Sidney A., De Witt, Ark. Fluid-pressure coupling. No. 1,343,852; June 15; v. 275; p. 556.
Rosseel, Charles H., Worcester, Mass. Automatic stabilizer for flying-machines. No. 1,362,965; Dec. 21; v. 281; p. 490.
Rossell, Thomas J., New Smyrna, Fla. Flue-cleaner. No. 1,327,740; Jan. 13; v. 270; p. 222.
Rossi, Giacinto, Philadelphia, Pa. Radiator. No. 1,354,341; Sept. 28; v. 278; p. 657.
Rossini, Joshua, Olyphant, Pa. Water-pump-controlling device. No. 1,347,408; July 20; v. 276; p. 531.
Rossini, Joshua, Olyphant, Pa. Head-block. No. 1,362,046; Dec. 14; v. 281; p. 260.
Rost, William H., Oakland, Calif. Fuel-pump. No. 1,362,742; Dec. 21; v. 281; p. 448.
Rost, William H., Oakland, Calif. Valve mechanism. No. 1,362,743; Dec. 21; v. 281; p. 448.
Rostand Manufacturing Company, The. (See Landine, Peter N., assignor.)
Rotary Rod Weeder and Manufacturing Company. (See Van Patten, Louis C., assignor.)
Rotary Rod Weeder and Manufacturing Company. (See Wolfe, Garnett H., assignor.)
Rotary Tire and Rubber Company. (See Sterns, Edward O., assignor.)
Rotermund, William F., Seattle, Wash. Circuit-lock. No. 1,339,003; May 4; v. 274; p. 65.
Rotermund, William F., Seattle, Wash. Direction-indicator for vehicles. No. 1,344,654; June 29; v. 275; p. 844.
Roth, Abraham. (See Roth, Morris and A.)
Roth, Albert, Chernex S/Montreux, Switzerland. Flange-lubricating device for wheels of railway-cars. No. 1,330,551; Feb. 10; v. 271; p. 257.
Roth, August J. (See Macfarland, H. A., and Roth.)
Roth, Benjamin W., Allentown, Pa. Vehicle-wheel. No. 1,351,345; Aug. 31; v. 277; p. 860.
Roth, Carl H., Newark, N. J. Tool or cutter head. No. 1,327,881; Jan. 13; v. 270; p. 248.
Roth, Charles. (See Nicholson, Eberhardt P., assignor.)
Roth, Charles, Brooklyn, N. Y. Automobile signal device. No. 1,344,355; June 22; v. 275; p. 719.
Roth, Charles H., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Telephone-reel. No. 1,346,467; July 13; v. 276; p. 287.
Roth, Daniel W., Shelby, Mich. Dispensing device. No. 1,355,697; Oct. 12; v. 279; p. 298.
Roth, Edward N., assignor to Roth Manufacturing Company, Chicago, Ill. Hose-coupling. No. 1,346,424; July 13; v. 276; p. 278.
Roth, Edward N., assignor to Roth Manufacturing Company, Chicago, Ill. Hose-coupling. No. 1,346,425; July 13; v. 276; p. 278.
Roth, Ernst, Nieder-Uzwil, Switzerland. Feeding device for grinding cylinder-mills. No. 1,337,567; Apr. 20; v. 273; p. 487.
Roth, Ernst, Niederuzwil, and J. Steiner, Wil, St. Gallen, assignors to Firm Buhler Brothers, Uzwil, Switzerland. Plansifter. No. 1,359,840; Nov. 23; v. 280; p. 666.
Roth, Joseph M., Ridgewood, and A. H. Yocum, New York, N. Y. Automatic phonograph-stop. No. 1,333,997; Mar. 16; v. 272; p. 457.
Roth, Louis, assignor to Sterling Bronze Company, New York, N. Y. Electrolier. No. 1,344,452; June 22; v. 275; p. 739.
Roth, Lucy. (See Roth, Matt and L.)
Roth Manufacturing Company. (See Roth, Edward N., assignor.)
Roth Manufacturing Company. (See Russell, E. A., and Harriman, assignors.)
Roth, Matt and L., Muskogee, Okla. Combination shade and curtain holder. No. 1,336,051; Apr. 6; v. 273; p. 65.
Roth, Morris J., Corona, and A. Roth, East Elmhurst, N. Y. Screen-frame. No. 1,363,921; Dec. 28; v. 281; p. 716.
Roth, Otto J., Richmond Hill, N. Y. Ice-cream-cone holder. No. 1,338,192; Apr. 27; v. 273; p. 675.
Roth, Peter O., New York, N. Y. Toy airplane. No. 1,344,520; June 22; v. 275; p. 752.
Rothberg, Jacob B. (See Silverstein, J., and Rothberg.)
Rothenberger, John W., Syracuse, Ind. Anti-mouth-breathing device. No. 1,339,865; May 11; v. 274; p. 803.
Rothenhoefer, Frederick F., Covington, Ky., assignor to The Monarch Lithographing Company, Cincinnati, Ohio. Fan. No. 1,352,385; Sept. 7; v. 278; p. 128.
Rotheram, Thomas, Creighton, Pa., assignor to Pittsburgh Plate Glass Company. Block-turning apparatus. No. 1,339,138; May 4; v. 274; p. 92.

Digitized by Google

Rothermel, Curtis J., Philadelphia, Pa., assignor to The Barrett Company. Container and dispensing device. No. 1,347,231; July 20; v. 276; p. 496.
Rothfuchs, Louis, assignor to The Warren Featherbone Company, Three Oaks, Mich. Automatic controlling attachment for looms. No. 1,336,089; Apr. 6; v. 273; p. 73.
Rothig, Bruno E. (See Arnold, E. A., and Rothig.)
Rothschild, Louis. (See Jerebek, Charles, assignor.)
Rothwell, James. (See Whitehead, P. K., and Rothwell.)
Rothwell, Richard, Los Angeles, Calif. Railway-crossing. No. 1,338,253; Apr. 27; v. 273; p. 687.
Rothwell, Robert, Keyport, and W. H. Cuttrell, Matawan, N. J., assignor to Whitall Tatum Company, New York, N. Y. Removing fins from rubber articles. No. 1,339,789; May 11; v. 274; p. 289.
Rotinoff, Alexander G., London, England. Construction of ferroconcrete piles *in situ*. No. 1,347,973; July 27; v. 276; p. 700.
Roto Company, The. (See Darlington, Philip J., assignor.)
Rott, Leo, Brooklyn, N. Y. Airship. No. 1,363,618; Dec. 28; v. 281; p. 657.
Rottel, Herman W., Milwaukee, Wis. Crank-mounting for ice-machines of the compression type. No. 1,343,407; June 15; v. 275; p. 468.
Rotter, Max, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Packing or gasket construction. No. 1,327,965; Jan. 13; v. 270; p. 264.
Rottman, George, New York, N. Y. Envelop. No. 1,334,967; Mar. 30; v. 272; p. 746.
Rottman, George, New York, N. Y. Envelop. No. 1,348,243; Aug. 3; v. 277; p. 23.
Rouanet, Louis, assignor to Compagnie D'Applications Mecaniques, Ivry-Port, France. Double-jaw calipers. No. 1,327,216; Jan. 6; v. 270; p. 63.
Rouanet, Louis, assignor to Compagnie D'Applications Mecaniques, Ivry-Port, France. Adjustable gage. No. 1,343,479; June 15; v. 275; p. 481.
Rouanet, Louis, assignor to Compagnie D'Applications Mecaniques, Ivry-Port, France. Device for carrying spare wheels on motor-cars. No. 1,357,593; Nov. 2; v. 280; p. 74.
Roubieu, Etienne M. (See Muntz, G. M., and Roubieu.)
Roudy, Charles, Graville-Ste-Honorine, assignor to Trefileries & Laminoirs Du Havre, Anciens Etablissements Lazare Weiller, Societe Coöperative De Rugles et la Canalisation Electrique Reunis, Paris, France. Furnace. No. 1,363,272; Dec. 28; v. 281; p. 591.
Rouillard, Peter H., Springfield, Mass., assignor to Rouillard Tool Corporation, Philadelphia, Pa. Tool-holder. No. 1,355,698; Oct. 12; v. 279; p. 298.
Rouillard Tool Corporation. (See Rouillard, Peter H., assignor.)
Round, Harold. (See Parrott, A. H., and Round.)
Round, Henry J., London, England, assignor to Radio Corporation of America. Thermionic device. No. 1,361,099; Dec. 7; v. 281; p. 24.
Round, John C., London, England. Box or crate. No. 1,338,533; Apr. 27; v. 273; p. 739.
Rounds, Robert, Conde, S. D. Engine-handling device. No. 1,326,969; Jan. 6; v. 270; p. 17.
Rounds, William H., Sioux Falls, S. D. Demountable rim. No. 1,344,212; June 22; v. 275; p. 691.
Roure, Augusto, Buenos Aires, Argentina. Dismountable house. No. 1,352,991; Sept. 14; v. 278; p. 285.
Rouse, Edward L., Columbus, Ohio. Attachment for pneumatic shearing-tools. No. 1,362,354; Dec. 14; v. 281; p. 320.
Rouse, George L., Cincinnati, Ohio. Combined anti-rattler and window-locking device. No. 1,338,792; May 4; v. 274; p. 27.
Rousseau, Joseph H., and A. Coté, Trois Pistoles, Quebec, Canada. Flour-mill. No. 1,344,453; June 22; v. 275; p. 739.
Rousseau, Sidney A., New Orleans, La. Automatic coupling for fluid-conducting pipes of railway-cars. No. 1,339,042; May 4; v. 274; p. 73.
Roussey, Paul, Brooklyn, N. Y. Signal device. No. 1,356,472; Oct. 19; v. 279; p. 490.
Roussin, Isabelle, Buenos Aires, Argentina. Combined corset and corset-waist. No. 1,331,027; Feb. 17; v. 271; p. 416.
Rousso, Jacques. (See Bagly, William W., assignor.)
Rousso, Jacques. (See Richards, Brayton G., assignor.)
Rousso, Jacques, Chicago, Ill. Counting mechanism. No. 1,329,433; Feb. 3; v. 271; p. 17.
Rousso, Jacques, Los Angeles, Calif. Towel-cabinet. No. 1,338,097; Apr. 27; v. 273; p. 658.
Router Manufacturing Company, The. (See Casey, William P., assignor. (Reissue.)
Routh, William T., Helena, Ga. Cold-chisel. No. 1,350,241; Aug. 17; v. 277; p. 535.
Routin, Joseph L., Paris, France. Anti-aircraft gunfire control. No. 1,345,698; July 6; v. 276; p. 72.
Routin, Joseph L., Paris, France. Fire-control tachometer. No. 1,345,699; July 6; v. 276; p. 73.
Routin, Joseph L., Paris, France. Anti-aircraft gunfire-control system. No. 1,345,700; July 6; v. 276; p. 73.
Routin, Joseph L., Paris, France. Anti-aircraft fire control. No. 1,345,701; July 6; v. 276; p. 73.
Routin, Joseph L., Paris, France. Apparatus for regulating the firing of guns. No. 1,345,702; July 6; v. 276; p. 73.
Routin, Joseph L., Paris, France. Anti-aircraft gunfire-control apparatus. No. 1,345,703; July 6; v. 276; p. 74.
Routin, Joseph L., Paris, France. Anti-aircraft tracker. No. 1,345,704; July 6; v. 276; p. 74.
Routin, Joseph L., Paris, France. Anti-aircraft fire control apparatus. No. 1,345,705; July 6; v. 276; p. 74.
Routin, Joseph L., Paris, France. Range-finding method and apparatus. No. 1,345,706; July 6; v. 276; p. 74.
Routin, Joseph L., Paris, France. Apparatus for regulating the firing of anti-aircraft. No. 1,345,707; July 6; v. 276; p. 74.
Routt, Orville L., assignor to Plastoid Products, Incorporated, Los Angeles, Calif. Means for making plaster-board. No. 1,348,898; Aug. 10; v. 277; p. 200.
Routt, Orville L., G. C. McConnell, and H. L. Glaze, assignors to Plastoid Products, Inc., Los Angeles, Calif. Method of and machine for handling plaster-board. No. 1,342,185; June 1; v. 275; p. 113.
Routt, Orville L., G. C. McConnell and H. L. Glaze, assignors to Plastoid Products, Inc., Los Angeles, Calif. Machine for transporting and drying plaster-board and the like. No. 1,346,339; July 13; v. 276; p. 262.
Rouviere, Ulysse, assignor to La Société Anonyme dite Ateliers De Constructions Electriques Du Nord Et De L'Est, Paris, France. Electric traction system. No. 1,358,580; Nov. 9; v. 280; p. 330.
Row, Reuben R., and H. C. Davis, Elizabeth, N. J., assignors to American Marine Equipment Corporation, New York, N. Y. Coupling and the like. No. 1,326,970; Jan. 6; v. 270; p. 17.
Rowan, Harry B., North Attleboro, Mass., assignor to Whiting & Davis Company. Handbag. No. 1,354,579; Oct. 5; v. 279; p. 26.
Rowan-Legg, William K., Montreal, Quebec, Canada. Reference score-reckoner. No. 1,330,188; Feb. 10; v. 271; p. 180.
Rowan, Robert C., Wheaton, assignor to Steel Fabricating Company, Chicago Heights, Ill. Sectional building. No. 1,340,561; May 18; v. 274; p. 492.
Rowe, Alvin V., Galesburg, Ill. Line-drive attachment for motor-propelled vehicles or implements. No. 1,355,850; Oct. 19; v. 279; p. 368.
Rowe, Alvin V., Galesburg, Ill. Line control for steering mechanism of tractors. No. 1,355,851; Oct. 19; v. 279; p. 368.
Rowe, Cecil B., and J. Lavercombe, Castlemaine, Victoria, Australia. Headlight attachment for vehicles. No. 1,347,409; July 20; v. 276; p. 532.
Rowe, Clarence C., Spray, N. C. Cloth-treating machine. No. 1,357,118; Oct. 26; v. 279; p. 664.
Rowe, David S., Marseilles, Ill. Beehive. No. 1,363,922; Dec. 28; v. 281; p. 716.
Rowe, Harry I. (See Stansbury, Harry S., assignor.)
Rowe, John, assignor of one-half to S. R. Trotter, Casey, Iowa. Twine-treating attachment for binders. No. 1,340,294; May 18; v. 274; p. 441.
Rowe, Knox M. (See Daugherty, John Q., assignor.)
Rowe, Levi L., Boston, Mass. Faucet. No. 1,350,885; Aug. 24; v. 277; p. 706.
Rowe, Robert. (See Ewing, Guss, assignor.)
Rowe, W. S., *et al.* (See Salsman, James E., assignor.)
Rowe, William A., Eau Claire, Wis. Floor-cleaning machine. No. 1,328,339; Jan. 20; v. 270; p. 372.
Rowland, Elmo C., Marshalltown, Iowa. Automobile-engine attachment. No. 1,338,534; Apr. 27; v. 273; p. 740.
Rowland, John, Republic, Wash. Combination baby carriage and sleigh. No. 1,353,071; Sept. 14; v. 278; p. 300.
Rowland, Phillip J. (See Heslewood, William R., assignor.)
Rowland, Roy H., Valley Junction, Iowa. Game-board. No. 1,359,108; Nov. 16; v. 280; p. 477.
Rowland, Valsy E., Indianapolis, Ind. Skylight. No. 1,331,825; Feb. 24; v. 271 p. 585.
Rowledge, Arthur J., assignor to D. Napier & Son, Limited, London, England. Internal-combustion engine. No. 1,339,423; May 11; v. 274; p. 219.
Rowledge, Arthur J., assignor to D. Napier & Son Limited, London, England. Cylinder for internal-combustion engines. No. 1,348,451; Aug. 3; v. 277; p. 63.
Rowlett, Oliver, *et al.* (See Carroll, Andrew L., assignor.)
Rowley, Arthur C. (See Evans, P., Rowley, and Garrett.)
Rowley, Arthur C., assignor to Globe Automatic Sprinkler Company, Philadelphia, Pa. Dry-pipe valve. No. 1,331,383; Feb. 17; v. 271; p. 481.
Rowley, George, Spotswood, Victoria, Australia. Twyer. No. 1,338,700; May 4; v. 274; p. 10.
Rowley, James F., Chicago, Ill. Fitting artificial limbs. No. 1,351,789; Sept. 7; v. 278; p. 14.
Rowley, James F., Chicago, Ill. Locking means for hinge-pins. No. 1,356,660; Oct. 26; v. 279; p. 574.
Rowley, John T., Pittsburgh, Pa. Ingot-mold. No. 1,351,346; Aug. 31; v. 277; p. 861.
Rowley, William S., Palmyra, N. J., assignor to H. W. Butterworth & Sons Co., Philadelphia, Pa. Cloth-clamp for textile machinery. No. 1,333,134; Mar. 9; v. 272; p. 234.
Rowley, William S., Palmyra, N. J., assignor to H. W. Butterworth & Sons Company. Cloth opener, spreader, and guider. No. 1,347,714; July 27; v. 276; p. 649.
Rownd, Annie K., *et al.* (See Kay, Samuel P., assignor.)
Rownd, Annie K., Rochester, N. Y. Nursery-seat. No. 1,328,900; Jan. 27; v. 270; p. 507.

Digitized by Google

Rownson, Drew & Clydesdale. (See Matthews, Matthew H., assignor.)
Rowntree, Harold, Kenilworth, assignor to National Pneumatic Company, Chicago, Ill. Power-operated mechanism for moving doors or the like. No. 1,339,671; May 11; v. 274; p. 267.
Rowntree, Harold, Kenilworth, Ill., assignor to National Pneumatic Company, New York, N. Y. Train-control system. No. 1,347,523; July 27; v. 276; p. 610.
Rowntree, Harold, Kenilworth, Ill., assignor to National Pneumatic Company, New York, N. Y. Chair. No. 1,354,133; Sept. 28; v. 278; p. 615.
Rowsey Gasoline Process Company. (See Lechtenberg, Leo F., assignor.)
Roxbrough, Frederick L., Pittsfield, Mass., assignor to General Electric Company. Spinning-frame controller. No. 1,358,397; Nov. 9; v. 280; p. 293.
Roxbury Carpet Company. (See Hughes, Harry, assignor.)
Roxbury Carpet Company. (See Thewlis, V. P., Melville, and Taylor, assignors.)
Roy, Alexander, Huntington, N. Y. Bell. No. 1,349,694; Aug. 17; v. 277; p. 431.
Roy, Camille E., Chicago, Ill. Tray. No. 1,353,273; Sept. 21; v. 278; p. 399.
Roy, Charles J., Los Angeles, Calif. Trap. No. 1,332,360; Mar. 2; v. 272; p. 36.
Roy, Claude, Paris, France. Rendering wood impermeable and recovering liquids contained therein. No. 1,356,015; Oct. 19; v. 279; p. 400.
Roy, Edward H., Nashville, Tenn. Ear hand-mirror. No. 1,342,350; June 1; v. 275; p. 144.
Roy, Edward H., Nashville, Tenn. Mouth hand-mirror. No. 1,342,351; June 1; v. 275; p. 144.
Roy, Joseph. (See Nicolaus, Frederic G., and Roy.)
Roy, Joseph, Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Gas-range frame. No. 1,333,507; Mar. 9; v. 272; p. 304.
Roy, Neal L., Boltonville, Vt. Screwing appliance for can-lids. No. 1,335,259; Mar. 30; v. 272; p. 800.
Roy, William D., Nashville, Tenn. Deck of cards. No. 1,355,782; Oct. 12; v. 279; p. 314.
Roy, William J., and J. B. Danel, Seattle, Wash. Fire-alarm signaling device. No. 1,337,161; Apr. 13; v. 273; p. 336.
Royal Electrotype Company. (See Blaetz, Harry M., assignor.)
Royal Metalware Manufacturing Co. (See Snider, John L., assignor.)
Royal Worcester Corset Co. (See Lecoutre, Auguste J., assignor.) (Reissue.)
Royan, George, assignor to American Oven & Machine Company, Chicago, Ill. Beater for sack-cleaning machines. No. 1,335,198; Mar. 30; v. 272; p. 789.
Royan, George, Chicago, Ill., assignor to American Oven & Machine Company. Mixing-machine. No. 1,336,862; Apr. 13; v. 273; p. 280.
Royce, Frederick H., assignor to Rolls-Royce Limited, Derby, England. Carburetor for internal-combustion engines. No. 1,328,590; Jan. 20; v. 270; p. 419.
Royce, Frederick H., assignor to Rolls-Royce Limited, Derby, England. Electric contact-breaker. No. 1,349,783; Aug. 17; v. 277; p. 448.
Royce, Frederick H., assignor to Rolls-Royce, Limited, Derby, England. Epicyclic gearing. No. 1,350,522; Aug. 24; v. 277; p. 637.
Royce, Sydney G., Katanning, assignor of one-half to F. S. Thompson, Broomehill, Western Australia, Australia. Convertible railway-wagon for carrying cattle or sheep. No. 1,357,188; Oct. 26; v. 279; p. 677.
Royer, Edwin C., and B. J. Boyle, Philadelphia, Pa. Clench or expansion nail. No. 1,335,162; Apr. 6; v. 273; p. 87.
Royer, Edwin C., and B. J. Royle, Philadelphia, Pa. Anchor-bolt. No. 1,344,720; June 29; v. 275; p. 856.
Royer, Edwin C., Philadelphia, Pa., assignor of one-half to B. J. Boyle, Philadelphia, Pa. Expansion-bolt. No. 1,349,437; Aug. 10; v. 277; p. 307.
Royer, Elam M., *et al.* (See Herr, Abram B., assignor.)
Royer, Enos S., Wilkes-Barre, Pa. Culinary spoon. No. 1,334,169; Mar. 16; v. 272; p. 489.
Royer, Jesse R., Janesville, Iowa. Animal-feeding device. No. 1,350,523; Aug. 24; v. 277; p. 638.
Royer, John, Hartville, Ohio. Bed. No. 1,341,342; May 25; v. 274; p. 712.
Royle, Albert E., Paddington, near Sydney, New South Wales, Australia. Heavier-than-air flying-machine. No. 1,340,914; May 25; v. 274; p. 629.
Royle, George E. (See Royle, John J. and G. E.)
Royle, John J., deceased, and G. E., Irlam, near Manchester; E. Hargraves, H. C. D. Scott, and G. L. Ridehalgh, executors, assignors to Royles Limited, Irlam, England. Apparatus for returning water of condensation to steam-boilers. No. 1,333,735; Mar. 16; v. 272; p. 408.
Royle, Vernon, Paterson, N. J. Attachment for routing machines. No. 1,353,497; Sept. 21; v. 278; p. 443.
Royles Limited. (See Royle, John J. and G. E., assignors.)
Royster, Charles F., Catlin, Ill. Car-door hanger. No. 1,361,547; Dec. 7; v. 281; p. 115.
Royster, William A., Detroit, Mich. Coal-car cover. No. 1,357,119; Oct. 26; v. 279; p. 664.
Rozankovich, Thomas, Galveston, Tex. Spring-wheel. No. 1,345,250; June 29; v. 275; p. 957.
Rozeboom, Andrew D., Bowman, N. D. Tire structure. No. 1,354,691; Oct. 5; v. 279; p. 49.
Rozenske, Harry, Detroit, Mich. Ash-sifter. No. 1,336,538; Apr. 13; v. 273; p. 217.
Rubber Regenerating Company. (See Price, Raymond B., assignor.)
Rubber Regenerating Company. (See Sylvester, Edwin S., assignor.)
Rubenstein, Nathan, New York, N. Y. Sadiron. No. 1,328,766; Jan. 20; v. 270; p. 451.
Rubenstein, Nathan, New York, N. Y. Clothes-boiler. No. 1,341,073; May 26; v. 274; p. 661.
Rubes, Ernest, Brooklyn, N. Y. Warning-signal. No. 1,345,251; June 29; v. 275; p. 958.
Rubin, Abraham, New York, N. Y. Hose-coupling. No. 1,343,853; June 15; v. 275; p. 557.
Rubin, Abraham Z., Denver, Colo. Sputum-cup holder. No. 1,345,252; June 29; v. 275; p. 958.
Rubin, Adolph, assignor to Sieber Products Mfg. Co., St. Louis, Mo. Loose-leaf binder. No. 1,334,406; Mar. 23; v. 272; p. 580.
Rubin, Adolph, assignor to Sieber Products Mfg. Co., St. Louis, Mo. Loose-leaf binder. No. 1,350,422; Aug. 24; v. 277; p. 617.
Rubin, Harry, Philadelphia, Pa. Machine for winding and cutting cloth. No. 1,361,185; Dec. 7; v. 281; p. 40.
Rubin, Jacob, Philadelphia, Pa. Garment. No. 1,340,915; May 25; v. 274; p. 629.
Rubin, Morris, and W. Levine, New York, N. Y. Soap-holder. No. 1,329,097; Jan. 27; v. 270; p. 543.
Rubin, Samuel. (See Page, Adolphus L., assignor.)
Rubin, Solomon H., Roxbury, Mass. Stethoscope. No. 1,344,655; June 29; v. 275; p. 844.
Rubino, Giuseppe, Turin, Italy. Rim for pneumatic-tired wheels. No. 1,346,468; July 13; v. 276; p. 287.
Ruby, Charles F., Shawnee, Okla. Gang-mold for casting posts of cement concrete. No. 1,331,028; Feb. 17; v. 271; p. 416.
Ruby, Charles F., Shawnee, Okla. Cement-molding apparatus. No. 1,336,539; Apr. 13; v. 273; p. 217.
Ruch, Peter B., Cumberland, Md. Compasses. No. 1,334,556; Mar. 23; v. 272; p. 608.
Ruck, Richard M., South Kensington, London, England. Means for controlling aircraft. No. 1,355,510; Oct. 12; v. 279; p. 262.
Ruczynski, Boleslaw, Indiana Harbor, Ind. Sash-lock. No. 1,340,462; May 18; v. 274; p. 473.
Rudasill, Elie A., Shelby, N. C. Staple-feeding mechanism. No. 1,330,396; Feb. 10; v. 271; p. 228.
Rudd, Harry B., Akron, Ohio, assignor to The Electropure Dairy Company, Chicago, Ill. Apparatus for sterilizing liquids. No. 1,333,633; Mar. 16; v. 272; p. 388.
Rudd, Harry B., Akron, Ohio, assignor to The Electropure Dairy Company, Chicago, Ill. Apparatus for electrically treating liquids. No. 1,360,447; Nov. 30; v. 280; p. 854.
Ruddick, John J., Newton, Mass. Trolley-switch. No. 1,336,485; Apr. 13; v. 273; p. 207.
Ruddick, John J., Newton, Mass. Block-signal system. No. 1,336,486; Apr. 13; v. 273; p. 207.
Ruddy, Michael J., Scranton, Pa. Jumper or crib. No. 1,343,523; June 15; v. 275; p. 491.
Rude, James M., Covington, assignor to Can Conservation Company, Louisville, Ky. Can-treating apparatus. No. 1,340,408; May 18; v. 274; p. 463.
Rude, James M., Covington, assignor to Can Conservation Company, Louisville, Ky. Can-cover-removing apparatus. No. 1,340,409; May 18; v. 274; p. 463.
Rude, James M., Covington, assignor to Can Conservation Company, Louisville, Ky. Receptacle-cleaning brush. No. 1,362,822; Dec. 21; v. 281; p. 464.
Ruden, Henry M., West Haven, Conn. Exercising apparatus. No. 1,344,963; June 29; v. 275; p. 902.
Rudenberg, Reinhold. (See Petersen, W., and Rudenberg.)
Ruder, William E., Schenectady, N. Y., assignor to General Electric Company. Treating metals. No. 1,346,062; July 6; v. 276; p. 145.
Rudert, Max J., Redlands, Calif. Phonograph-needle. No. 1,358,178; Nov. 9; v. 280; p. 249.
Rudge, Alfred, Gateshead, England. Manufacture of bleaching-powder. No. 1,330,495; Feb. 10; v. 271; p. 246.
Rudin, Karl V., Stockholm, Sweden. Calculating-machine. No. 1,352,029; Sept. 7; v. 278; p. 62.
Rudin, Karl V., Stockholm, Sweden. Step-by-step mechanism in calculating-machines. No. 1,352,030; Sept. 7; v. 278; p. 62.
Rudin, Karl V., Stockholm, Sweden. Calculating-machine. No. 1,360,322; Nov. 30; v. 280; p. 830.
Rudkin, William P., Oklahoma, Okla. Generator. No. 1,328,016; Jan. 13; v. 270; p. 274.
Rudloff, Joe, Gallup, N. Mex. Filter, cleaner, or washer for air. No. 1,358,333; Nov. 9; v. 280; p. 280.
Rudnick, George E., Boston, Mass. Drop-cover check. No. 1,333,939; Mar. 16; v. 272; p. 446.
Rudolph, George F., Chicago, Ill. Conveying mechanism for broom-corn machines. No. 1,344,006; June 22; v. 275; p. 651.

Digitized by Google

Alphabetical list of patentees—Continued.

Rudolph, Ida, Otisco, Minn. Clothesline. No. 1,341,591; May 25; v. 274; p. 761.
Rudolph, John L., Courtenay, N. D. Valve-spring lifter. No. 1,362,440; Dec. 14; v. 281; p. 337.
Rudolph, Harold V., Baltimore, Md. Contact-shoe. No. 1,361,407; Dec. 7; v. 281; p. 85.
Rudolph, Raymond H., Elgin, assignor of one-half to C. Friedman, Chicago, Ill. Leather-stitching machine. No. 1,352,222; Sept. 7; v. 278; p. 98.
Rudolph, William R., Glenbrook, Conn. Christmas-tree ornament and making same. No. 1,351,790; Sept. 7; v. 278; p. 14.
Rudolphi, Frank, New York, N. Y., assignor to American Can Company. Can-closing machine. No. 1,327,966; Jan. 13; v. 270; p. 264.
Rudzinskas, John, Muskegon, Mich. Cattle-feeding trough. No. 1,354,130; Sept. 28; v. 278; p. 615.
Ruebush, Lee L., Sciota, Ill. Trash and sod chopper or cutter. No. 1,341,825; June 1; v. 275; p. 42.
Ruedy, Henry U., Toledo, Ohio. Head equipment for barrels. No. 1,353,183; Sept. 21; v. 278; p. 382.
Ruegg, Anton, A., San Francisco, Calif. Two-cycle gas-engine. No. 1,330,496; Feb. 10; v. 271; p. 246.
Ruegg, Henry, Jr., Weehawken, N. J. Heddle. No. 1,341,244; May 25; v. 274; p. 693.
Ruegg, Henry, Jr., Weehawken, N. J. Heddle. No. 1,341,245; May 25; v. 274; p. 694.
Ruehle, Charles E. J., Ruthven, Iowa. Attachment for ditching-machines. No. 1,335,605; Mar. 30; v. 272; p. 865.
Ruehle, Louis H., Emmetsburg, Iowa. Popcorn-heater. No. 1,341,592; May 25; v. 274; p. 761.
Ruf, George. (See Heintz, J. C., and Ruf.) (Reissue.)
Ruff, Frank J., and W. R. Ekins, assignors of one-third to G. A. Cook, St. Louis, Mo. Shoe-presser. No. 1,334,968; Mar. 30; v. 272; p. 746.
Ruff, Frederick A., Newark, N. J. Coupling. No. 1,334,557; Mar. 23; v. 272; p. 609.
Ruff, Frederick C. (See Lowe, L. P., and Ruff.)
Ruff, John F., Port Huron, Mich. Evaporator and pasteurizer. No. 1,354,342; Sept. 28; v. 278; p. 657.
Ruff, William, New York, N. Y. Work-holder for machine-tools. No. 1,357,518; Nov. 2; v. 280; p. 60.
Ruff, William J., Quincy, Ill. Carbureter. No. 1,349,006; Aug. 10; v. 277; p. 221.
Ruff, William J., Quincy, Ill. Parachute. No. 1,353,130; Sept. 14; v. 278; p. 311.
Ruff, William J., Quincy, Ill. Parachute. No. 1,353,131; Sept. 14; v. 278; p. 311.
Ruff, William J., Quincy, Ill. Preserving carbonated beverages. No. 1,361,498; Dec. 7; v. 281; p. 105.
Ruff, William W., Lexington, Va. Corn-crib. No. 1,363,273; Dec. 28; v. 281; p. 591.
Ruffalo, Pasquale, Jr., Mount Vernon, N. Y. Multiple switch. No. 1,355,002; Oct. 5; v. 279; p. 110.
Ruffman, David A., Hyde Park, London, England. Bidet. No. 1,348,518; Aug. 3; v. 277; p. 75.
Ruge, Bernard A., Tarrytown, N. Y., assignor to Ward Carpenter and Company, Inc. Roadway or pavement and constructing same. No. 1,330,139; Feb. 10; v. 271; p. 180.
Ruggles, J. W., *et al.* (See Abbey, Eddie G., assignor.)
Ruggles, William G., New York, N. Y. Orientator. No. 1,342,871; June 8; v. 275; p. 300.
Ruggles, William G., San Francisco, Calif. Observation-station. No. 1,352,992; Sept. 14; v. 278; p. 285.
Ruggles, William G., assignor to E. V. Hartford, New York, N. Y. Golf-stick. No. 1,327,171; Jan. 6; v. 270; p. 55.
Rugh, Harry O., Chicago, Ill. Relay system. No. 1,337,797; Apr. 20; v. 278; p. 531.
Rugh, Harry O., Chicago, Ill. Telegraph signaling system. No. 1,347,176; July 20; v. 276; p. 485.
Rugh, Harry O., Chicago, Ill. Mirror device. No. 1,347,593; July 27; v. 276; p. 625.
Rugiu, Edoardo, *et al.* (See Motta, Domingo, assignor.)
Ruhe, Carleton, New York, N. Y., and F. R. Barker, Salem, assignors, by mesne assignments, to Ruhe Tanning Machinery Company, Boston, Mass. Machine for scrubbing, brushing, and cleansing leather. No. 1,356,016; Oct. 19; v. 279; p. 400.
Ruhe Tanning Machinery Company. (See Ruhe C., and Barker, assignors.)
Ruhl, George W., assignor of one-half to E. Killman, Barnes, Kans. Direction-indicator. No. 1,340,082; May 11; v. 274; p. 344.
Ruhl, Hepburn. (See Bennett, Edward O., assignor.)
Ruhmer, Ernst, Berlin, Germany. Multiple telephony. No. 1,356,222; Oct. 19; v. 279; p. 442.
Ruhoff, Otto E., assignor to French Battery & Carbon Co., Madison, Wis. Making primary batteries. No. 1,331,213; Feb. 17; v. 271; p. 450.
Ruhoff, Otto E., assignor to French Battery & Carbon Co., Madison, Wis. Electric battery. No. 1,331,877; Feb. 24; v. 271; p. 595.
Ruhoff, Otto E., assignor to French Battery & Carbon Co., Madison, Wis. Electric battery. No. 1,342,068; June 1; v. 275; p. 89.
Ruhoff, Otto E., assignor to French Battery & Carbon Co., Madison, Wis. Purification of battery materials. No. 1,343,585; June 15; v. 275; p. 503.
Ruhoff, Otto E., assignor to French Battery & Carbon Co., Madison, Wis. Electric battery. No. 1,352,087; Sept. 7; v. 278; p. 72.
Ruhoff, Otto E., assignor to French Battery & Carbon Company, Madison, Wis. Oil-protected electric battery and producing same. No. 1,352,834; Sept. 14; v. 278; p. 254.
Ruhoff, Otto E., assignor to French Battery & Carbon Co., Madison, Wis. Electric battery and operation. No. 1,358,334; Nov. 9; v. 280; p. 280.
Ruhoff, Otto E., assignor to French Battery & Carbon Co., Madison, Wis. Manufacture of dry cells. No. 1,361,499; Dec. 7; v. 281; p. 105.
Ruiter, Vern L., Roseburg, Oreg. Therapeutic apparatus for treatment of the lower portion of the body. No. 1,337,798; Apr. 20; v. 273; p. 531.
Ruiz, Carlos, Hartford, Conn. Valve-grinding device. No. 1,333,100; Mar. 9; v. 272; p. 228.
Ruiz, Carlos, Hartford, Conn. Fraction-adding machine. No. 1,344,190; June 22; v. 275; p. 686.
Rule, Ethan A., Burlington, assignor of one-half to R. F. Rule, Charlotte, Vt. Ice-cutting machine. No. 1,351,131; Aug. 31; v. 277; p. 817.
Rule, John F., assignor to Owens Bottle Machine Company, Toledo, Ohio. Means for charging glass-molds. No. 1,331,528; Feb. 24; v. 271; p. 529.
Rule, Raymond F. (See Rule, Ethan A., assignor.)
Rule, Robert L., Strong City, Okla. Riding-lister attachment. No. 1,364,000; Dec. 28; v. 281; p. 731.
Rullman, David D., Omaha, Nebr. Operating device for washing-machines. No. 1,335,754; Apr. 6; v. 273; p. 10.
Rumble, William, Jr., Cranford, N. J. Match-box. No. 1,341,074; May 25; v. 274; p. 661.
Rummell, Harry B., Findlay, Ohio. Spark-plug. No. 1,331,029; Feb. 17; v. 271; p. 416.
Rumney, Fred A., Cambridge, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Eyeleting-machine. No. 1,341,763; June 1; v. 275; p. 30.
Rumpf, Max, and W. E. Nims, Chicago, Ill. Self-inking stamp. No. 1,356,172; Oct. 19, v. 279; p. 432.
Rumple, Alva H., Des Moines, Iowa. Sawing-machine. No. 1,335,798; Apr. 6; v. 273; p. 18.
Rumsey, Donovan W. (See Dewey, Glenn L., assignor.)
Rumsey, Ernest. (See Upp, William M., assignor.)
Rumsey, Joseph F., Oklahoma, Okla. Food product and making same. No. 1,348,186; Aug. 3; v. 277; p. 10.
Rundall, Adolph, Juneau, Alaska. Tractor. No. 1,335,461; Mar. 30; v. 272; p. 838.
Rundall, Frederick H., Fall River, Mass. Tank-lock. No. 1,348,744; Aug. 3; v. 277; p. 118.
Rundback, John C., New York, N. Y. Foot-operated switch. No. 1,355,573; Oct. 12; v. 279; p. 274.
Rundberg, Otto, Spokane, Wash. Rake attachment. No. 1,352,586; Sept. 7; v. 278; p. 128.
Runde, Fred J., Brooklyn, N. Y. Proof-sheet. No. 1,331,676; Feb. 24; v. 271; p. 557.
Runge, Walter, Orange, N. J., assignor to International Coal Products Corporation, Richmond, Va. Treating lignite. No. 1,334,170; Mar. 16; v. 272; p. 489.
Runge, William H., assignor to The Seneca Falls Manufacturing Co., Inc., Seneca Falls, N. Y. Relieving attachment for lathes and the like. No. 1,339,983; May 11; v. 274; p. 325.
Runge, William H., assignor to The Seneca Falls Manufacturing Co., Inc., Seneca Falls, N. Y. Micrometer-gage or stop device for lathes or the like. No. 1,339,984; May 11; v. 274; p. 326.
Runk, William B., assignor to Robert N. Bassett Company, Incorporated, Shelton, Conn. Button-clasp. No. 1,332,759; Mar. 2; v. 272; p. 112.
Runke, Richard B. (See Allen, William M., assignor.)
Runkel, Albert C., Milwaukee, Wis. Electric-lamp support. No. 1,350,423; Aug. 24; v. 277; p. 618.
Runkle, John H., Jr., Rossie, Iowa. Mail-box-signal device. No. 1,346,789; July 13; v. 276; p. 351.
Runne, Henry G., assignor, by mesne assignments, of one-half to C. L. Townsend, Rochester, N. Y. Toy vehicle. No. 1,352,835; Sept. 14; v. 278; p. 254.
Runne, Henry G., assignor of one-half to C. L. Townsend, Rochester, N. Y. Toy. No. 1,352,836; Sept. 14; v. 278; p. 254.
Runnels, Walter S., Kalamazoo, Mich. Cutter. No. 1,359,748; Nov. 23; v. 280; p. 649.
Runner, Claude C., Schenectady, N. Y., assignor to General Electric Company. Motor-control system. No. 1,347,760; July 27; v. 276; p. 659.
Runner, Ward B. (See Neff, F. M., and Runner.)
Runnion, David A., Fortress Monroe, Va. Valve-grinder. No. 1,336,863; Apr. 13; v. 273; p. 280.
Runser, Jess W., Fort Wayne, Ind. Attachment for holding disinfectants. No. 1,359,535; Nov. 23; v. 280; p. 606.
Runyan, Arthur L., Omaha, Nebr. Wheel-cushion and means for mounting same. No. 1,343,684; June 15; v. 275; p. 523.
Runyan, Arthur L., Omaha, Nebr. Resilient tire-filler. No. 1,343,685; June 15; v. 275; p. 523.
Runyan, Arthur L., Omaha, Nebr. Educational device. No. 1,354,692; Oct. 5; v. 279; p. 49.

Digitized by Google

Runyan, Benjamin F., Houston, Tex. Combustion-gas and crude-oil burner. No. 1,339,580; May 11; v. 274; p. 249.
Runyan, Benjamin F., assignor of one-half to J. O. Decuir, Houston, Tex. Crude-oil burner. No. 1,339,579; May 11; v. 274; p. 249.
Runyan, Clarence, Aurora, Ind. Reraller. No. 1,353,072; Sept. 14; v. 278; p. 301.
Runyan, Clay M., deceased, Lakewood; D. T. Runyan, administratrix, Cleveland, Ohio. Fender for motor-cars. No. 1,354,441; Sept. 28; v. 278; p. 677.
Runyan, Clay M., Cleveland, Ohio, assignor, by mesne assignments, to The Advance Manufacturing Company, Detroit, Mich. Printing-machine. No. 1,354,918; Oct. 5; v. 279; p. 94.
Runyan, Dorothy T., administratrix. (See Runyan, Clay M.)
Runyans, James W., Sulphur, Okla. Cultivator attachment. No. 1,360,801; Nov. 30; v. 280; p. 924.
Runyen, David, assignor to The Runyen Manufacturing Co., Grand Rapids, Mich. Grease container and dispenser. No. 1,330,987; Feb. 17; v. 271; p. 408.
Runyen Manufacturing Co., The. (See Runyen, David, assignor.)
Runzel-Lenz Electric Mfg. Co. (See Runzel, William L., assignor.)
Runzel, William L., assignor to Runzel-Lenz Electric Mfg. Co., Chicago, Ill. Flexible cord. No. 1,340,839; May 18; v. 274; p. 544.
Ruoff, John, assignor to Indiana Veneer and Panel Company, New Albany, Ind. Clamping device. No. 1,337,484; Apr. 20; v. 273; p. 471.
Ruoff, John, assignor to Indiana Veneer and Panel Company, New Albany, Ind. Round-top work. No. 1,337,485; Apr. 20; v. 273; p. 472.
Ruos, Joseph R., Doylestown, Pa., assignor to General Motors Corporation, Detroit, Mich. Peanut picker or separator. No. 1,360,249; Nov. 23; v. 280; p. 748.
Ruping, Max, Berlin, Germany. Preserving wood. No. 1,345,253; June 29; v. 275; p. 958.
Ruple, George A., San Francisco, Calif. Bracket. No. 1,341,198; May 25; v. 274; p. 685.
Rupp, Alwyn D. (See Rice, J. M., Joseph, and Rupp.)
Ruppel, Frederick C. (See Jacobs, G., and Ruppel.)
Ruppel, Henry, Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Perforated combustion-section for blue-flame stoves. No. 1,333,577; Mar. 9; v. 272; p. 317.
Ruppel, Richard, New York, assignor to S. C. Ross, Buffalo, N. Y. Expansion-joint. No. 1,336,924; Apr. 13; v. 273; p. 292.
Ruppert, David, Westminster, Md. Shears. No. 1,333,578; Mar. 9; v. 272; p. 318.
Ruppert, Frank, Glencoe, Minn. Tractor attachment. No. 1,363,756; Dec. 28; v. 281; p. 684.
Rupprecht, Bert A., New Orleans, La., assignor to The Cleveland Tractor Company, Euclid, Ohio. Ridged land-cultivator. No. 1,361,906; Dec. 14; v. 281; p. 232.
Rupprecht, Georg, Hamburg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Making enamels. No. 1,360,585; Nov. 30; v. 280; p. 882.
Ruquet, Edward J., Jr., New York, N. Y. Clamp-bolt. No. 1,343,089; June 8; v. 275; p. 343.
Rush, Albert, Columbus, Ohio. Door for elevator-shafts. No. 1,341,863; June 1; v. 275; p. 49.
Rush, Albert, Columbus, Ohio. Door for elevator-shafts. No. 1,341,864; June 1; v. 275; p. 49.
Rush, Albert, assignor to The Kinnear Manufacturing Company, Columbus, Ohio. Sliding door. No. 1,332,956; Mar. 9; v. 272; p. 201.
Rush, Albert, assignor to The Kinnear Manufacturing Company, Columbus, Ohio. Combined hinged and sliding door. No. 1,348,125; July 27; v. 276; p. 731.
Rush, Estol S., Los Angeles, Calif. Timer. No. 1,332,637; Mar. 2; v. 272; p. 89.
Rush, Frank R., Jamestown, N. Y. Necktie-stretcher. No. 1,330,010; Feb. 3; v. 271; p. 124.
Rush, Fred O., New Castle, Del., assignor to American Manganese Steel Company, Chicago, Ill. Pug-mill knife. No. 1,347,876; July 27; v. 276; p. 681.
Rush, Joseph K., Syracuse, N. Y. Artificial bait. No. 1,332,806; Mar. 2; v. 272; p. 25.
Rushin, William R. (See Slagle, G. R., Garner, and Rushin.)
Rushing, Joe, Hickory Ridge, Ark. Mail-delivery apparatus. No. 1,340,840; May 18; v. 274; p. 544.
Rushton, Kenneth, assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Stub-end bearing for locomotive-rods. No. 1,328,591; Jan. 20; v. 270; p. 420.
Rushton, Kenneth, assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Railway-truck. No. 1,328,592; Jan. 20; v. 270; p. 420.
Rushton, Kenneth, assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Wear-plate for driving-axle boxes for locomotives. No. 1,345,254; June 29; v. 275; p. 958.
Rushton, Kenneth, assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Radial driving-wheel for locomotives. No. 1,355,699; Oct. 12; v. 279; p. 298.
Rushton, Kenneth, assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Swing-truck for locomotives. No. 1,363,923; Dec. 28; v. 281; p. 717.
Rushworth, George A. W., Willington, Manchester, England. Self-inking printing-stamp. No. 1,345,255; June 29; v. 275; p. 958.
Rushworth, William A., Chicago, Ill. Distilling apparatus. No. 1,359,276; Nov. 16; v. 280; p. 509.
Russ Company, The. (See Joslin, Charles T., assignor.)
Russ Company, The. (See Schutt, Theodore H., assignor.)
Russ, Friend A., Greenwich, assignor to Robert N. Bassett Company, Incorporated, Shelton, Conn. Buckle. No. 1,338,535; Apr. 27; v. 273; p. 740.
Russ, Friend A., Greenwich, assignor to Robert N. Bassett Company, Incorporated, Shelton, Conn. Buckle. No. 1,338,536; Apr. 27; v. 273; p. 740.
Russ, John U., Derby, Conn., assignor to Robert N. Bassett Company, Incorporated, Shelton, Conn. Buckle. No. 1,337,965; Apr. 20; v. 273; p. 564.
Russel, Albert W., assignor to Russel Motor Axle Company, Detroit, Mich. Vehicle-axle. No. 1,344,150; June 22; v. 275; p. 679.
Russel Motor Axle Company. (See Russel, Albert W., assignor.)
Russell, Arthur L., Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Stretching apparatus. No. 1,346,258; July 13; v. 276; p. 246.
Russell, Bertrom R., Sheridan, Nev. Match-safe. No. 1,328,968; Jan. 27, v. 270; p. 519.
Russell, Charles A., Jr., Orange, Tex. Blow-out patch. No. 1,334,171; Mar. 16; v. 272; p. 490.
Russell, Charles B., Brockton, Mass. Magnetic intensifier. No. 1,355,622; Oct. 12; v. 279; p. 284.
Russell, Charles L., New York, N. Y. Drill-chuck. No. 1,351,347; Aug. 31; v. 277; p. 861.
Russell, Charles W., Sioux Falls, S. D. Hoop-roller. No. 1,348,745; Aug. 3; v. 277; p. 118.
Russell, Edward A., assignor to Vapor Car Heating Company, Inc., Chicago, Ill. Pipe-coil. No. 1,335,799; Apr. 6; v. 273; p. 18.
Russell, Edward A., and S. P. Harriman, assignors, by mesne assignments, to Roth Manufacturing Company, Chicago, Ill. Hose-coupling. No. 1,346,421; July 13; v. 276; p. 277.
Russell, Edward A., and S. P. Harriman, assignors, by mesne assignments, to Roth Manufacturing Company, Chicago, Ill. Hose-coupling. No. 1,346,422; July 13; v. 276; p. 277.
Russell, Edward A., and S. P. Harriman, assignors, by mesne assignments, to Roth Manufacturing Company, Chicago, Ill. Hose-coupling. No. 1,346,423; July 13; v. 276; p. 278.
Russell, Frances E., Seattle, Wash. Marcel iron. No. 1,330,350; Feb. 10; v. 271; p. 219.
Russell, Frank E., San Francisco, Calif. Body-bolster and draw-casting for tenders. No. 1,357,728; Nov. 2; v. 280; p. 100.
Russell, G. Archie, Orlando, Fla. Tree trimming and harvesting machine. No. 1,354,267; Sept. 28; v. 278; p. 643.
Russell, George H., Pittsfield, Mass. Window-wiping device. No. 1,340,704; May 18; v. 274; p. 536.
Russell, George W., Berryville, Ark. Cleaning apparatus for wells. No. 1,340,295; May 18; v. 274; p. 441.
Russell Grader Manufacturing Co. (See Anderson, Axel, assignor.)
Russell, Guy M., Rochester, assignor to American Piano Company, New York, N. Y. Pneumatic pump. No. 1,343,004; June 8; v. 275; p. 326.
Russell, Harlow M., Chelsea, Mass. Paper box. No. 1,357,519; Nov. 2; v. 280; p. 60.
Russell, Harry H., assignor to The E. T. Burrowes Company, Portland, Me. Folding stool and ladder. No. 1,333,344; Mar. 9; v. 272; p. 273.
Russell, Henry H., Bagley, Iowa. Shock-absorber. No. 1,333,449; Mar. 9; v. 272; p. 293.
Russell, Homer B., Walnut Grove, Ala. Music-turning device. No. 1,347,556; July 27; v. 276; p. 617.
Russell, Joseph J., Falkville, Ala. Churn. No. 1,359,277; Nov. 16; v. 280; p. 509.
Russell, Mary E. (See Russell, William J. and M. E.)
Russell, Richard F., Jersey City, N. J., assignor to Air Reduction Company, Inc. Making blowpipe-tips. No. 1,344,964; June 29; v. 275; p. 902.
Russell, Richard F., Jersey City, N. J., assignor to Air Reduction Company, Inc. Welding-rod. No. 1,352,534; Sept. 14; v. 278; p. 193.
Russell, Robert A., New York, assignor of one-third to Paragon Metal Cap Company, Inc., Brooklyn, one-third to M. King, New York, and one-third to L. R. N. Carvalho, Brooklyn, N. Y. Cap for bottles or jars. No. 1,327,967; Jan. 13; v. 270; p. 264.
Russell, Robert C., Pittsburgh, Pa. Card-index. No. 1,357,653; Nov. 2; v. 280; p. 85.
Russell, Samuel A. (See Sagel, A. C., assignor.)
Russell, Samuel J., Williamsville, N. Y. Truck power-shovel. No. 1,359,841; Nov. 23; v. 280; p. 667.
Russell, Thomas N., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Sheet-metal end structure for railway-cars. No. 1,332,857; Mar. 2; v. 272; p. 130.
Russell, Thomas N., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Railway-car. No. 1,336,864; Apr. 13; v. 273; p. 280.

Digitized by Google

Russell, Thomas N., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Car-roof. No. 1,340,685; May 18; v. 274; p. 516.
Russell, Thomas N., assignor to Chicago-Cleveland Car Roofing Co., Chicago, Ill. Car-roof. No. 1,342,510; June 8; v. 275; p. 228.
Russell, Thomas N., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Car-roof. No. 1,344,824; June 29; v. 275; p. 877.
Russell, Thomas N., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Car-roof. No. 1,347,974; July 27; v. 276; p. 700.
Russell, Thomas N., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Railway-car. No. 1,359,278; Nov. 16; v. 280; p. 509.
Russell, William E., Akron, Ohio. Elastic vehicle-tire. No. 1,345,256; June 29; v. 275; p. 958.
Russell, William J. and M. E., Grand Rapids, Mich. Camp-table. No. 1,335,704; Mar. 30; v. 272; p. 884.
Russo, Ciro D., New York, N. Y. Banjo. No. 1,341,199; May 25; v. 274; p. 685.
Russo, Domenico, Jersey City, N. J. Velocipede. No. 1,330,011; Feb. 3; v. 271; p. 124.
Russo, Michael, assignor to Fulton Specialty Co., Elizabeth, N. J. Stamp-pad. No. 1,363,017; Dec. 21; v. 281; p. 501.
Rust, Arthur E. (See Crouch, W. L., and Rust.)
Rust, Edwin G., Philadelphia, Pa. Loading-machine. No. 1,355,003; Oct. 5; v. 279; p. 110.
Rust, Edwin G., Sioux City, Iowa. Parcel-carrier. No. 1,357,005; Oct. 26; v. 279; p. 642.
Rust, John, Kalamazoo, Mich. Adjustable bed. No. 1,343,985; June 22; v. 275; p. 647.
Rust, Thomas E., Waterloo, Iowa. Splice-bar for rail-joints. No. 1,347,877; July 27; v. 276; p. 682.
Rust, William F., Pittsburgh, assignor to The Koppers Company, Philadelphia, Pa. Coke-handling apparatus. No. 1,351,541; Aug. 31; v. 277; p. 899.
Rustant, Ferdinand, San Francisco, Calif. Nonrefillable bottle. No. 1,357,654; Nov. 2; v. 280; p. 85.
Rustant, Ferdinand, San Francisco, Calif. Non-refillable bottle. No. 1,358,398; Nov. 9; v. 280; p. 294.
Rustige, Frans J. H., Stockholm, Sweden. Fire-extinguisher. No. 1,335,394; Mar. 30; v. 272; p. 826.
Ruston and Hornsby. (See Green, Wans, and Livens, assignors.)
Rutan, William, assignor to Gillis & Geoghegan, New York, N. Y. Cable-hook. No. 1,333,038; Mar. 9; v. 272; p. 216.
Rutenber, Edwin A., assignor to Rutenber Electric Co., Marion, Ind. Electric heating unit. No. 1,337,725; Apr. 20; v. 273; p. 518.
Rutenber Electric Co. (See Rutenber, Edwin A., assignor.)
Rutenber, Menzo A., Collinsville, Okla. Roller-door equipment. No. 1,350,622; Aug. 24; v. 277; p. 657.
Ruth, Joseph P., Jr., Denver, Colo. Mineral flotation. No. 1,356,832; Oct. 26; v. 279; p. 608.
Ruth, William A. (See Borck, Charles E. O., assignor.)
Ruthenburg, Marcus, Buffalo, N. Y. Electric furnace. No. 1,335,199; Mar. 30; v. 272; p. 790.
Rutherford, Charles H. (See Ransdell, Robert W., assignor.)
Rutherford, Eugene W., New Haven, Conn., assignor to The Shoe Hardware Company. Buckle. No. 1,346,979; July 20; v. 276; p. 447.
Rutherford, John A., Richmond, Va. Center-slot steel furniture. No. 1,342,030; June 1; v. 275; p. 82.
Rutherford, Thomas J., Oklahoma, Okla. Oil-tank. No. 1,343,480; June 15; v. 275; p. 481.
Ruths, Johannes K., Djursholm, Sweden, assignor to Aktiebolaget Vaporackumulator, Stockholm, Sweden. Steam-accumulator. No. 1,328,593; Jan. 20; v. 270; p. 420.
Ruthven, Alfred L., Kansas City, Mo. Combination automatic and manual air-brake system and automatic train control and signal mechanism. No. 1,335,260; Mar. 30; v. 272; p. 800.
Ruthven, Arthur T., Kansas City, Mo. Well-plugging apparatus. No. 1,342,927; June 8; v. 275; p. 311.
Rutledge, Francis A. (See Conners, A. L., and Rutledge.)
Rutledge, James H., Pittsburg, Kans. Case for folding rulers. No. 1,351,132; Aug. 31; v. 277; p. 817.
Ruttinger, Henry, Buffalo, N. Y. Engine. No. 1,349,856; Aug. 17; v. 277; p. 461.
Ruttle, William H., Seattle, Wash. Butter-cutter. No. 1,331,786; Feb. 24; v. 271; p. 578.
Ruud, Edwin, Pittsburgh, Pa. Fluid-mixing apparatus. (Reissue.) No. 14,836; Apr. 6; v. 273; p. 133.
Ruzicka, Frank, Chicago, Ill. Shade and curtain-pole bracket. No. 1,342,230; June 1; v. 275; p. 122.
Ryan, Albert J., Cincinnati, Ohio. Machine for pressing in box-toes. No. 1,356,017; Oct. 19; v. 279; p. 401.
Ryan Car Company, The. (See Ryan, William M., assignor.)
Ryan, Cornelius J., Meriden, Conn. Cap-remover. No. 1,347,410; July 20; v. 276; p. 532.
Ryan, Edward A., *et al.* (See Farmsworth, William W., assignor.)
Ryan, George B. and W. M., Leaky, Tex. Rail-joint. No. 1,350,182; Aug. 17; v. 277; p. 524.
Ryan, Henry D., Boulder, Colo., assignor, by mesne assignments, to National Oil Machinery Corporation, New York, N. Y. Recovering bituminous matter from shale. No. 1,327,572; Jan. 6; v. 270; p. 129.
Ryan, John E., Boston, Mass. Device for holding tools or work. No. 1,331,030; Feb. 17; v. 271; p. 417.
Ryan, John E., Boston, Mass. Spring-shackle. No. 1,358,335; Nov. 9; v. 280; p. 280.
Ryan, John F., Chicago Ill. Index. No. 1,340,410; May 18; v. 274; p. 463.
Ryan, John H., Montreal, Quebec, Canada. Amusement apparatus. No. 1,357,520; Nov. 2; v. 280; p. 60.
Ryan, John H., assignor to D. R. Seaman, Chicago, Ill. Grinding calcium carbonate and product thereof. No. 1,328,299; Jan. 20; v. 270; p. 364.
Ryan, John J., Bayonne, N. J. Snow removing and melting machine. No. 1,351,542; Aug. 31; v. 277; p. 899.
Ryan, John T., Pittsburgh, Pa., assignor to The Mine Safety Appliance Company. Mouthpiece for breathing apparatus. No. 1,328,057; Jan. 13; v. 270; p. 281.
Ryan, John T., assignor to Mine Safety Appliance Company, Pittsburgh, Pa. Regenerator for breathing apparatus. No. 1,328,058; Jan. 13; v. 270; p. 282.
Ryan, Joseph F., Chicago, Ill. Clutch-controlling mechanism. No. 1,342,762; June 8; v. 275; p. 278.
Ryan, Lonnie W., assignor to Lindsay Light Company, Chicago, Ill. Recovery of thorium. No. 1,351,489; Aug. 31; v. 277; p. 888.
Ryan, Lural S. (See Mason, W. B., and Ryan.)
Ryan, Patrick, New York, N. Y. Apparatus for taking and preserving finger-print impressions. No. 1,361,100; Dec. 7; v. 281; p. 24.
Ryan, Ralph J., Akron, Ohio, assignor to International Harvester Company. Oil-can holder. No. 1,354,693; Oct. 5; v. 279; p. 49.
Ryan, Thomas F. (See Thompson, J. T., and Cummings, assignor.)
Ryan, Thomas F. (See Thompson, John T., assignor.)
Ryan, Thomas J., *et al.* (See Cummings, Henry H., assignor.)
Ryan, Thomas J. (See Perrine, Robert P., assignor.)
Ryan, Thomas L., and O. Sacksteder, Jr., assignors to Retherford Brothers Company, Muncie, Ind. Shade-holder. No. 1,333,736; Mar. 16; v. 272; p. 408.
Ryan, Timothy, Loveland, Iowa. Sloper attachment for road planers or scrapers. No. 1,329,858; Feb. 3; v. 271; p. 96.
Ryan, Wilbur J., *et al.* (See Zwicker, Frederick P., assignor.)
Ryan, William M. (See Ryan, George B. and W. M.)
Ryan, William M., Leakey, Tex. Rail-joint. No. 1,331,031; Feb. 17; v. 271; p. 417.
Ryan, William M., Chicago, Ill., assignor to The Ryan Car Company, Subsill and draft-arm. No. 1,345,257; June 29; v. 275; p. 959.
Ryan, William M., Chicago, Ill., assignor to The Ryan Car Company. Car-underframing. No. 1,345,258; June 29; v. 275; p. 959.
Ryberg, Carl H., Seattle, Wash. Flue-cleaner. No. 1,355,574; Oct. 12; v. 279; p. 275.
Ryckman, John, Minneapolis, Minn. Heating apparatus. No. 1,338,965; May 4; v. 274; p. 58.
Ryczek, Paul A., Perth Amboy, N. J. Rail-joint. No. 1,333,877; Mar. 16; v. 272; p. 434.
Rydbeck, Patrik S., Gottenborg, Sweden. Apparatus for manufacturing rings, especially track-rings for ball and roller bearings. No. 1,338,462; Apr. 27; v. 273; p. 726.
Rydbeck, Patrik S., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Machine for pressing rings having profiled inner surfaces. No. 1,350,568; Aug. 24; v. 277; p. 647.
Rydbeck, Patrik S., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Apparatus for manufacturing rings, especially track-rings for ball and roller bearings. No. 1,354,779; Oct. 5; v. 279; p. 66.
Rydberg, Bernhard C., Red Lodge, Mont. Automobile shoe-brush. No. 1,333,634; Mar. 16; v. 272; p. 389.
Rydberg, Bertil A. B., Skövde, Sweden. Safety means for automatic pistols and similar firearms. No. 1,355,067; Oct. 5; v. 279; p. 123.
Rydberg, Helge S. A., Lund, Sweden. Diaphragm-sounder and the like. No. 1,335,921; Apr. 6; v. 273; p. 41.
Rydberg, Helge S. A., Malmö, Sweden. Diaphragm-horn. No. 1,337,162; Apr. 13; v. 273; p. 336.
Ryder, Ambrose, New York, N. Y. Umbrella. No. 1,328,901; Jan. 27; v. 270; p. 507.
Ryder, Ambrose, New York, N. Y. Umbrella. No. 1,328,902; Jan. 27; v. 270; p. 507.
Ryder, Clair E., Sioux Rapids, Iowa. Perforator attachment for presses. No. 1,356,313; Oct. 19; v. 279; p. 460.
Ryder, Elmer. (See Nichols, J. C., and Ryder.)
Ryder, Frank P., Suspension Bridge, N. Y. Green-pea-vine feeder. No. 1,331,278; Feb. 17; v. 271; p. 461.
Ryder, Garfield L. and H. L. B., Poughkeepsie, N. Y. Automobile-top. No. 1,355,064; Oct. 5; v. 279; p. 122.
Ryder, Gilbert E., Leonia, N. J. Locomotive-firebox arch. No. 1,337,486; Apr. 20; v. 273; p. 472.
Ryder, Gilbert E., Leonia, N. J. Making return-bends and related structures. No. 1,352,535; Sept. 14; v. 278; p. 193.

Digitized by Google

Ryder, Harry L. B. (See Ryder, Garfield L., and H. L. B.)
Ryder, Linus I. and M. Z., Briarcliff Manor, N. Y. Dirigible light. No. 1,352,903; Sept. 14; v. 278; p. 286.
Ryder, Mary Z. (See Ryder, Linus I. and M. Z.)
Ryer, Everett W., Colorado Springs, Colo. Stove or furnace. No. 1,345,887; July 6; v. 276; p. 110.
Ryer, Everett W., Colorado Springs, Colo. Firepot. No. 1,345,888; July 6; v. 276; p. 110.
Ryerson, Charles S., Norfolk, Va. Automatic closure for conduit-boxes. No. 1,334,172; Mar. 16; v. 272; p. 490.
Ryland, Charles F., Aldershot, England. Means for illuminating magnetic compasses. No. 1,333,222; Mar. 9; v. 272; p. 250.
Rylander, William P., San Marcos, Tex. Tire-tool. No. 1,358,336; Nov. 9; v. 280; p. 280.
Byll, Martin, Port Colborne, Ontario, Canada. Movable toy figure. No. 1,334,039; Mar. 23; v. 272; p. 682.
Ryon, Eppa H., Waltham, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft-detector for looms. No. 1,337,726; Apr. 20; v. 273; p. 518.
Ryon, Eppa H., Waltham, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Winding-machine. No. 1,337,727; Apr. 20; v. 273; p. 518.
Ryon, Eppa H., Waltham, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft-detecting mechanism. No. 1,345,508; July 6; v. 276; p. 36.
Ryon, Eppa H., Waltham, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft-detecting mechanism. No. 1,352,536; Sept. 14; v. 278; p. 193.
Ryon, Eppa H., Waltham, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Twisting-machine. No. 1,355,852; Oct. 19; v. 279; p. 369.
Ryon, Eppa H., Waltham, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft-replenishing loom. No. 1,360,586; Nov. 30; v. 280; p. 882.
Rypinski, Albert B., Brooklyn, assignor to T. E. Murray, New York, N. Y. Connecting plates by electrical riveting. No. 1,329,144; Jan. 27; v. 270; p. 552.
Rysdon, Louis S. (See Beers, H. P., and Rysdon.)
Rysiek, Casimir, assignor of one-half to L. Sikorski, Chicago, Ill. Utensil-holder. No. 1,341,343; May 25; v. 274; p. 713.
S. G. V. Electric Co. (See Schindler, B., and Viertel, assignors.)
S. K. F. Administrative Company. (See Palmgren, Nils A., assignor.)
S K F Administrative Company. (See Palmgren, Nils A., assignor.)
S. K. F. Ball Bearing Company. (See Schaffer, William J., assignor.)
S. O. & C. Co., The. (See Neuberth, Franklin G., assignor.)
S and S Window Corporation. (See Clermont, John B., assignor.)
S. T. Metal Stamping Company. (See Tobias, Abraham, assignor.)
S. W. H. Engineering Company, The. (See Howe, James M., assignor.)
Saal, George A., Youngstown, Ohio. Closet-tank flush-lever. No. 1,334,173; Mar. 16; v. 272; p. 490.
Saal, Henry G., Chicago, Ill. Speed-governor. No. 1,352,223; Sept. 7; v. 278; p. 98.
Saal, Henry G., Chicago, Ill. Turntable for phonographs. No. 1,352,224; Sept. 7; v. 278; p. 98.
Saalburg, Charles W., New York, N. Y. Changing pictures. No. 1,347,793; July 27; v. 276; p. 665.
Saalburg, Charles W., assignor to Animated Picture Products Company, New York, N. Y. Plate-holder for making changeable pictures. No. 1,347,794; July 27; v. 276; p. 665.
Saalmann, Ernst R. (See Ischinger, Eric, assignor.)
Sabbag, Litfallah G., East Boston, Mass. Permutation-lock. No. 1,356,314; Oct. 19; v. 279; p. 461.
Sabbag, Litfallah G., assignor of one-half to M. A. Metcalf, Boston, Mass. Shedding-motion for looms. No. 1,339,716; May 11; v. 274; p. 275.
Sabel, Harry J. (See Sabel, Walter F., assignor.)
Sabel, Walter F., assignor of one-half to H. J. Sabel, Evansville, Ind. Shipping-case and basket construction. No. 1,358,581; Nov. 9; v. 280; p. 330.
Sabey, William D. (See Smith, Henry A., assignor.)
Sabin, Belle C., Chicago, Ill. Culinary appliance. No. 1,335,530; Mar. 30; v. 272; p. 851.
Sabin, Herbert B., Cleveland, Ohio. Truck for handling metal containers and the like. No. 1,358,881; Nov. 16; v. 280; p. 435.
Sabin, Herbert B., and O. C., Cleveland Heights, Ohio. Device for applying glazing compounds and the like. No. 1,343,408; June 15; v. 275; p. 468.
Sabin, Orrin C. (See Sabin, Herbert B., and O. C.)
Sabin, William W., Portland, Oreg. Demountable lamp-bracket for automobiles. No. 1,340,686; May 18; v. 274; p. 516.
Sabine, Jane D. K., executrix. (See Sabine, W. C., and Guastavino.) (Reissue.)
Sabine, Wallace C., deceased, Boston, Mass., and R. Guastavino, Bay Shore, N. Y.; J. D. K. Sabine, executrix. Sound-absorbing materials for walls and ceilings. (Reissue.) No. 14,992; Nov. 23; v. 280; p. 749.
Sabins, William A., and D. J. Donahue, Joplin, Mo. Leveling device for billiard-tables. No. 1,355,429; Oct. 12; v. 279; p. 246.
Sabo, Louis, Beaver Falls, Pa. Trolley-head. No. 1,338,193; Apr. 27; v. 273; p. 676.
Sabold, Harold W., Port Carbon, Pa. Indicator. No. 1,335,261; Mar. 30; v. 272; p. 801.
Sabom, Joseph O., Superior, Wis. Caster attachment for stove-legs. No. 1,341,384; May 25; v. 274; p. 721.
Saborsky, Arthur D., Lakewood, Ohio. Battery-light attachment. No. 1,363,924; Dec. 28; v. 281; p. 717.
Sachnoff, George, Brooklyn, N. Y. Wardrobe-trunk. No. 1,360,448; Nov. 30; v. 280; p. 854.
Sachs, Samuel. (See Blattberg, Nathan, assignor.)
Sachs, Walter, Petersburg, Va. Trash-receptacle. No. 1,338,400; Apr. 27; v. 273; p. 715.
Sackett, Hart, Grand Rapids, Mich. Humidifier. No. 1,352,477; Sept. 14; v. 278; p. 182.
Sacks, Bernard. (See Goldfarb, N. J., and Sacks.)
Sacks, George P. (See Sanna, Anthony R., assignor.)
Sacks, Herman, Chicago, Ill., assignor to A. T. Van Alstyn, Grand Rapids, Mich. Hose-supporter. No. 1,336,053; Apr. 6; v. 273; p. 66.
Sacks, Marcus B., Philadelphia, Pa. Furniture-polish composition. No. 1,359,536; Nov. 23; v. 280; p. 606.
Sacksteder, Overton, Jr. (See Ryan, T. L., and Sacksteder.)
Saco-Lowell Shops. (See Weber, Carl E., assignor.)
Sadgebury, Herman F., Rayton, Ohio. Spark-plug. No. 1,329,547; Feb. 3; v. 271; p. 38.
Sadlier, F. G. (See Boni, Charles, assignor.)
Sadlik, Joe, Youngstown, Pa. Combination-bed. No. 1,359,623; Nov. 23; v. 280; p. 623.
Sadtler, Philip B. (See Goodhue, J. G., and Sadtler.)
Sadtler, Samuel S., Springfield township, Montgomery county, Pa. Producing alkali-metal hydroxids. No. 1,351,693; Aug. 31; v. 277; p. 928.
Sadtler, Samuel S., Springfield township, Montgomery county, Pa. Making hydrogen containing alkali-metal phosphates and a salt produced therein. No. 1,357,120; Oct. 26; v. 279; p. 664.
Sadtler, Samuel S., Montgomery county, Pa. Extracting platinum and other metals from their ores. No. 1,358,248; Nov. 9; v. 280; p. 262.
Saeger, Raymond A., Ankona, Fla. Gradometer. No. 1,348,055; July 27; v. 276; p. 717.
Saegesser, Albert W., Granite City, Ill., assignor to Liberty Auto Lock Co., St. Louis, Mo. Ignition-lock. No. 1,348,187; Aug. 3; v. 277; p. 10.
Saegesser, Albert W., Granite City, Ill., assignor to Liberty Auto Lock Co., St. Louis, Mo. Automobile-lock for disk wheels. No. 1,348,960; Aug. 10; v. 277; p. 212.
Saewert, Albert F., Stirum, N. D. Tire-grip holder. No. 1,330,497; Feb. 10; v. 271; p. 247.
Safe-Cabinet Company, The. (See Dick and Wigginton, assignors.)
Safe-Cabinet Company, The. (See Dick, R. H., and Wolters, assignors.)
Safe-Cabinet Company, The. (See Dick, R. H., Wolters, and Sutter, assignors.)
Safe Deposit and Trust Company of Baltimore *et al.*, executors. (See Mergenthaler, Eugene G.)
Safe-Guard Check Writer Company. (See Whitaker, John, assignor.)
Safely, Robert P., Oakland, Calif. Direction-indicator. No. 1,353,788; Sept. 21; v. 278; p. 502.
Safepack Mills. (See Schenkelberger, Albert E., assignor.)
Safety Anaesthesia Apparatus Concern. (See Walter, Will P., assignor.)
Safety Burglar Alarm Co. (See Jacobson, Ole, assignor.)
Safety Block Signal Company, The. (See Williams, Frank C., assignor.)
Safety Car Heating & Lighting Company. (See Schepmoes, Lindsley, assignor.)
Safety Car Heating & Lighting Company. (See Thomson, William L., assignor.)
Safety Car Heating & Lighting Company, The. (See Vuilleumier, Rudolph, assignor.)
Safety Car Heating and Lighting Company. (See Watson, Leonard A., assignor.)
Safety Eyeglass Company, The. (See Bradley and Pike, assignors.)
Safety First Devices Company. (See Earnheart, Lucien T., assignor.)
Safety First Metal Tie Company. (See Clark, Adolphus Y., assignor.)
Safety First Supply Company. (See Busko, Joseph E., assignor.)
Safety Machinery Corporation. (See Axlrod, Meyer, assignor.)
Safety Mail Crane Company. (See Livesay, Everett G., assignor.)
Safety Projector & Film Co. (See Coatsworth, Louis, assignor.)
Safety Steering Device Manufacturing Company, The. (See Small, Nathan, assignor.)
Saferlite Lens Company. (See Hobbie, Edward H., assignor.)
Saffold, James W., Cleveland, assignor, by mesne assignments, to Victor Manufacturing Company, Dayton, Ohio. Self-adjusting wrench. No. 1,363,274; Dec. 28; v. 281; p. 591.
Safford, Henry, Little Rock, Ark. Copy and book holder. No. 1,340,411; May 18; v. 274; p. 464.

Digitized by Google

Alphabetical list of patentees—Continued.

Safford, Walter F., Providence, R. I. Paring-knife. No. 1,330,820; Feb. 17; v. 271; p. 375.
Saganaw Manufacturing Company. (See Gilbert, Henry J., assignor.)
Sage, Charles E., Rochester, N. Y. Oil-well controller. No. 1,354,694; Oct. 5; v. 279; p. 50.
Sagel, Adolph C., Chicago, assignor, by mesne assignments, to S. A. Russell, River Forest, Ill. Camping outfit. No. 1,341,441; May 25; v. 274; p. 732.
Sager, J. H., Company. (See Sager, James H., assignor.)
Sager, James H., assignor to J. H. Sager Company, Rochester, N. Y. Bumper for automobiles. No. 1,345,553; July 6; v. 276; p. 45.
Sager, James H., assignor to J. H. Sager Company, Rochester, N. Y. Bumper for automobiles. No. 1,345,554; July 6; v. 276; p. 45.
Sager, James H., assignor to J. H. Sager Company, Rochester, N. Y. Bumper. No. 1,348,981; Aug. 10; v. 277; p. 213.
Sager, James H. assignor to J. H. Sager Company, Rochester, N. Y. Bumper. No. 1,348,982; Aug. 10; v. 277; p. 213.
Sager, Peter. (See Cox, A. O., and Sager.)
Sager, Peter H., Marianna, Fla. Roller-curtain for automobiles. No. 1,351,403; Aug. 31; v. 277; p. 872.
Sager, Sidmoor S., Buffalo, N. Y. Fruit-jar. No. 1,356,224; Oct. 19; v. 279; p. 443.
Sagert, Edward W., Archbold, Ohio. Garden-tool. No. 1,334,969; Mar. 30; v. 272; p. 746.
Saget, Jules L., New Orleans, La. Ladder construction. No. 1,350,242; Aug. 17; v. 277; p. 535.
Sagle, Roy E., Roseville, Ohio. Spot-light. No. 1,355,783; Oct. 12; v. 279; p. 314.
Sague, George. (See Pitt, J. W., and Sague.)
Sahr, Frank, Delaware, Ohio. Shoe-heel. No. 1,344,356; June 22; v. 275; p. 719.
Saia, Thomas, and M. Butera, Pittsburgh, Pa. Ice-creeper No. 1,352,088; Sept. 7; v. 278; p. 73.
Said, Jesse M., assignor to Corning Glass Works, Corning, N. Y. Burner for fire-polishing glassware. No. 1,337,328; Apr. 20; v. 273; p. 443.
Said, Jesse M., assignor to Corning Glass Works, Corning, N. Y. Water-cooled shield for tank-furnaces. No. 1,360,587; Nov. 30; v. 280; p. 882.
Sailer, Arthur G., assignor to The Sailer & Melvin Manufacturing Company, Massillon, Ohio. Wire-coiling machine. No. 1,340,296; May 18; v. 274; p. 441.
Sailer & Medvin Manufacturing Company, The. (See Sailer, Arthur G., assignor.)
Sainsbury, James T., assignor of five-twelfths to G. F. Yates, Buffalo, N. Y. Heating apparatus for automobiles. No. 1,331,384; Feb. 17; v. 271; p. 481.
Saintagne, Hippolyte. (See Malivert, E., and Saintagne.)
Sairanen, Ernest, Minneapolis, Minn. Combined automobile and motor-boat. No. 1,344,317; June 22; v. 275; p. 712.
Saito, Nakaji, Tokyo, Japan. Pedal for cycles, motorcycles, and the like. No. 1,362,145; Dec. 14; v. 281; p. 280.
Saito, Riyosaku, New York, N. Y. Garment-hanger. No. 1,334,798; Mar. 23; v. 272; p. 654.
Saitta, Richard, Honolulu, Hawaii. Piston. No. 1,332,760; Mar. 2; v. 272; p. 112.
Sakai Kako Celluloid Kwuisha, Ltd. (See Yanagihara, Kichibei, assignor.)
Sakauye, Suyeji, East San Pedro, Calif. Sea-current-direction indicator. No. 1,336,925; Apr. 13; v. 273; p. 292.
Saklatwalla, Byramji D., and A. N. Anderson, Crafton, Pa., assignors, by mesne assignments, to Vanadium Corporation of America, New York, N. Y. Electrode-holder. No. 1,363,815; Dec. 28; v. 281; p. 696.
Sala, Earl V., Toledo, Ohio. Engine. No. 1,327,172; Jan. 6; v. 270; p. 55.
Saladiner, Joseph M., Bryan, Tex. Cotton-pest poisoner. No. 1,354,215; Sept. 28; v. 278; p. 632.
Salas, Francisco J., administrator. (See Staud y Ximénes, Fernando.)
Salas y Rodriguez, Mariano J., Manila, Philippine Islands. Hemp-stripping machine. No. 1,334,262; Mar. 16; v. 272; p. 506.
Salazar, Alfredo M., New York, N. Y. Coffee-urn. No. 1,341,520; May 25; v. 274; p. 747.
Salem Manufacturing Company. (See Harris, William K., assignor.)
Salerno, Ferdinando G., Chicago, Ill. Depositing-machine. No. 1,342,598; June 8; v. 275; p. 246.
Sales Service Company, The. (See Koch, Charles J., assignor.)
Salinger, Berthold, New York, N. Y. Detachable auxiliary seat for automobiles. No. 1,347,594; July 27; v. 276; p. 625.
Salisbury, Alfred J. (See Ivey and Salisbury.)
Salisbury, Charles A., New York, N. Y. Ballast-bag for scenery. No. 1,335,607; Mar. 30; v. 272; p. 865.
Salisbury, Charles A., New York, N. Y. Constructing fabric structures. No. 1,358,582; Nov. 9; v. 280; p. 330.
Salisbury, Orange J., assignor to United Filters Corporation, Salt Lake City, Utah. Method of and apparatus for filtration. No. 1,336,444; Apr. 13; v. 273; p. 199.
Salladay, Isaiah R., Ainsworth, Iowa. Door-hanger. No. 1,339,790; May 11; v. 274; p. 289.
Salle, George F. (See Salle, George P., and G. F.)
Salle, George P. and G. F., Boise, Idaho. Folding camp-bed. No. 1,359,844; Nov. 23; v. 280; p. 667.
Salles, Pierre M. R., Cauderan, France. Incandescent-electric-lamp holder. No. 1,336,587; Apr. 13; v. 273; p. 226.
Sallows, James F., assignor to The Sallows Patented Steel Treating Process Company, Lansing, Mich. Producing and finishing gears and other carbonized-steel parts. (Reissue.) No. 14,820; Mar. 16; v. 272; p. 509.
Sallows Patented Steel Treating Process Company, The. (See Sallows, James F., assignor.) (Reissue.)
Salm, John, assignor to C. L. A. Whitney, Albany, N. Y. Making solder. No. 1,326,971; Jan. 6; v. 270; p. 18.
Salminen, John, Brooklyn, N. Y. Apparatus for reseating valve-body seats. No. 1,355,700; Oct. 12; v. 279; p. 298.
Salmon, Edward W., Jr., assignor to Hull, Salmon Mfg. Co., Inc., Baltimore, Md. Fire-extinguishing device for film-cabinets. No. 1,345,509; July 6; v. 276; p. 36.
Salmon, John J., Salt Lake City, Utah. Can-opener. No. 1,333,450; Mar. 9; v. 272; p. 293.
Salmon, Samuel C., Manhattan, Kans. Drill. No. 1,330,451; Feb. 10; v. 271; p. 238.
Salmons, Claude C., and J. Mahoney, West Philadelphia, Pa. Combined clamp and fastener. No. 1,352,919; Sept. 14; v. 278; p. 271.
Salop, Steven, Youngstown, Ohio. Book-lock. No. 1,349,857; Aug. 17; v. 277; p. 462.
Salsich, Neil E., Bethlehem, Pa. Switch mechanism. No. 1,341,246; May 25; v. 274; p. 694.
Salsman, James E., Crescentville, assignor of one-twelfth to W. S. Rowe and five-twelfths to H. W. Nichols, Cincinnati, and one-fourth to H. B. Jones, Arlington, Ohio. Tub-beater. No. 1,338,869; May 4; v. 274; p. 40.
Salt, Lloyd B., Dedham, Mass. Non-glare headlight. No. 1,354,422; Sept. 28; v. 278; p. 674.
Salt, Wellington, Buffalo, N. Y. Combination-gage. No. 1,341,481; May 25; v. 274; p. 740.
Salter, Leslie, Vallejo, Calif. Armor-plate installer. No. 1,355,784; Oct. 12; v. 279; p. 314.
Saltmarsh, Thomas W., and H. F. Gonzales, Pensacola, Fla. Adjustable flag-holder. No. 1,339,833; May 11; v. 274; p. 297.
Saltsman, Joseph H., Cleveland, Ohio. Means for draining marshy and swampy land. No. 1,344,656; June 29; v. 275; p. 844.
Saltzman, Joseph. (See Capman, Carl E., assignor.)
Saltzman, Joseph G., Brooklyn, N. Y., assignor to Acousti-Scope Corporation. Motion-picture and sound-reproducing apparatus. No. 1,341,933; June 1; v. 275; p. 63.
Saltsman, Melville J., Alvada, Ohio. Power-transmission device. No. 1,342,649; June 8; v. 275; p. 254.
Salvati, Michele N., deceased; G. Beer and A. Tedesco, executors assignors to Societa Anonima Stabilimenti Biak, Turin, Italy. Coating with tin and tin alloys articles made of aluminium or aluminium alloys. No. 1,332,307; Mar. 2; v. 272; p. 26.
Salvati, Michele N., deceased, G. Beer and A. Tedesco, executors, assignors to Societa Anonima Stabilimenti Biak, Turin, Italy. Producing metallic alloys containing nickel. No. 1,349,918; Aug. 17; v. 277; p. 473.
Salvesen, Lars, Satsup, Wash. Saw-supporting device. No. 1,331,279; Feb. 17; v. 271; p. 461.
Salvesen, Ole L., Lawrence, Kans. Coal-saver and smoke-consumer. No. 1,362,744; Dec. 21; v. 281; p. 448.
Salvi, Lambert, Pittsburgh, Pa. Sound-box for talking-machines. No. 1,361,620; Dec. 7; v. 281; p. 129.
Salviolo, Carmine J., Brooklyn, N. Y. Dispensing-can. No. 1,330,351; Feb. 10; v. 271; p. 219.
Salviolo, Carmine J., deceased, Brooklyn, N. Y.; M. J. Salviolo, executor. Closure for boxes and bottles. No. 1,341,075; May 25; v. 274; p. 661.
Salviolo, Michael J., executor. (See Salviolo, Carmine J.)
Salzer, Arthur, New York, N. Y. Lamp. No. 1,338,194; Apr. 27; v. 273; p. 676.
Samboll, Gabril, St. Cloud, Minn. Gasolene-funnel. No. 1,350,184; Aug. 17; v. 277; p. 524.
Samelson, Bernard. (See Smith and Samelson.)
Sammons, Walter H., Philadelphia, Pa. Comb. No. 1,362,823; Dec. 21; v. 281; p. 464.
Samotej, John, New York, assignor of one-half to W. Samotej, Brooklyn, N. Y. Manufacture of thread-gages. No. 1,344,607; June 22; v. 275; p. 770.
Samotej, Witold. (See Samotej, John, assignor.)
Sampietro, Cornelius, Brooklyn, N. Y. Portable hygroscope. No. 1,336,380; Apr. 6; v. 273; p. 128.
Sampietro, Cornelius, Brooklyn, N. Y. Violin-bow gage. No. 1,357,189; Oct. 26; v. 279; p. 677.
Samplawski, Stanislaw, Bloomfield, N. J. Window-screen. No. 1,349,438; Aug. 10; v. 277; p. 307.
Sample, Morris D., Detroit, Mich. Fire-extinguisher. No. 1,362,745; Dec. 21; v. 281; p. 448.
Sample, Perry B., Brooklyn, N. Y. Lubricator. No. 1,333,451; Mar. 9; v. 272; p. 293.
Sampson, Charles H., assignor, by mesne assignments, to Todd Protectograph Company, Rochester, N. Y. Check-printing machine. No. 1,341,076; May 25; v. 274; p. 661.

Digitized by Google

Sampson, George. (See Townill, G. and P., and Sampson.)
Sampson, Phillip O., assignor of one-half to J. D. Wheeler, Hornell, N. Y. Tire opening and holding tool. No. 1,356,504; Oct. 19; v. 279; p. 496.
Sampson, Samuel, New York, N. Y. Soft-collar holder. No. 1,350,569; Aug. 24; v. 277; p. 647.
Sampson, Scott M., Oakdale, Calif. Automatic water-gate. No. 1,329,679; Feb. 3; v. 271; p. 62.
Sams, Homer. (See Martin, B. W., and Sams.)
Samson, Abe, Cedarhurst, N. Y. Spark-plug. No. 1,344,721; June 29; v. 275; p. 856.
Samuels, Maurice M. (See Bechoff, F., and Samuels.)
Samuelson, George B., Isleworth, and W. H. Glaser, Tunbridge Wells, England. Railway system. No. 1,353,423; Sept. 21; v. 278; p. 429.
San Diego Consolidated Gas & Electric Company. (See Klauber, Laurence M., assignor.)
San, Louis J., New York, N. Y. Film-washing. No. 1,362,146; Dec. 14; v. 281; p. 280.
San Pablo Oil Mills, Limited. (See McCord, John D., assignor.)
Sanborn, Arthur R., Schenectady, N. Y., assignors to General Electric Company. Overload device. No. 1,328,457; Jan. 20; v. 270; p. 394.
Sanborn, Charles, *et al.* (See Grover, Arthur C., assignor.)
Sanborn, Charlotte R., Somerville, Mass. Flower-box. No. 1,351,490; Aug. 31; v. 277; p. 888.
Sanchez, Rufo, Newark, N. J. Wedging-block for shipbuilding. No. 1,350,844; Aug. 24; v. 277; p. 699.
Sand Mixing Machine Company. (See Wadsworth, Howard L., assignor.)
Sanda, Frank I., Steelton, Pa. Combined letter-sheet and envelop. No. 1,345,961; July 6; v. 276; p. 125.
Sandal, John A. (See Rickon, Harold J., assignor.)
Sandberg, August P., Minneapolis, Minn. Bracket. No. 1,353,853; Sept. 28; v. 278; p. 558.
Sandberg, David E., Detroit, Mich. Adjustable detachable rod and fixture support. No. 1,345,463; July 6; v. 276; p. 27.
Sandberg, Emelin, executrix. (See Sandberg, Isaac W.)
Sandberg, Eugene S., and L. B. Newell, Springfield, Ill. Duplex method of and apparatus for sending telegraphic messages. No. 1,333,452; Mar. 9; v. 272; p. 293.
Sandberg, Isaac W., deceased, Ashton, Nebr.; E. Sandberg, executrix. Haystack-cover. No. 1,331,462; Feb. 17; v. 271; p. 496.
Sandberg, James T., Gottenborg, Sweden. Pulley. No. 1,359,842; Nov. 23; v. 280; p. 667.
Sandberg, Johan H. (See Uhr, N. W., and Sandberg.)
Sandberg, John R., Denver, Colo. Combined sash or door lock and burglar-alarm. No. 1,358,249; Nov. 9; v. 280; p. 263.
Sandberg, Walter, Portland, Oreg. Automatic window-screen. No. 1,329,929; Feb. 3; v. 271; p. 109.
Sandbo, Anton I., Rock Island, Ill. Safety cranking device. No. 1,333,186; Mar. 9; v. 272; p. 243.
Sandborn, Eugene L., (See Smith, T. L., and Sandborn.)
Sandby, Robert, Chicago, Ill. Permanently producing picture or like effects upon enameled metal surfaces. No. 1,335,755; Apr. 6; v. 273; p. 10.
Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Control system for rectifiers. No. 1,329,799; Feb. 3; v. 271; p. 84.
Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Governor mechanism. No. 1,329,800; Feb. 3; v. 271; p. 85.
Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Phonograph. No. 1,331,214; Feb. 17; v. 271; p. 450.
Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Apparatus for raising the tone-arms of sound-reproducing devices. No. 1,331,215; Feb. 17; v. 271; p. 450.
Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Device for forming grooves in sound-records. No. 1,342,872; June 8; v. 275; p. 300.
Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Cabinet-top-lifting device. No. 1,357,655; Nov. 2; v. 280; p. 85.
Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Sound-modulating device. No. 1,361,500; Dec. 7; v. 281; p. 105.
Sander, Jacob C., Lynn, assignor to Thomson Electric Welding Company, Boston, Mass. Uniting cable ends. No. 1,363,355; Dec. 28; v. 281; p. 607.
Sander, Jacob C., Lynn, assignor to Thomson Electric Welding Company, Boston, Mass. Butt-welding tubing. No. 1,363,356; Dec. 28; v. 281; p. 607.
Sanders, Alexander B., Miama, Fla. Combination-undergarment. No. 1,339,070; May 4; v. 274; p. 79.
Sanders, Aura J., Cedar Springs, Mich. Pen or pencil attachment. No. 1,345,962; July 6; v. 276; p. 126.
Sanders, Ernest, Chicago, Ill. Car-door signal. No. 1,329,680; Feb. 3; v. 271; p. 62.
Sanders, Floyd, Rocky Ford, Colo. Push bean-harvester. No. 1,329,632; Feb. 3; v. 271; p. 54.
Sanders, J. Wofford, *et al.* (See Theriot, Charles, assignor.)
Sanders, John C., assignor of one-half to J. Hawkins, Harrisburg, Pa. Clasp. No. 1,340,985; May 25; v. 274; p. 644.
Sanders, John F., assignor to F. H. Churchill and O. F. Coshow, Roseburg, Oreg. Manufacturing nitric acid and other nitrogen compounds from atmospheric air. No. 1,349,919; Aug. 17; v. 277; p. 473.
Sanders, Sanford D., Island City, Oreg. Fencepost. No. 1,334,558; Mar. 23; v. 272; p. 609.
Sanders, Walter F., Frost, Tex. Planter attachment. No. 1,332,577; Mar. 2; v. 272; p. 77.
Sanderson, Frank A., *et al.* (See Alsten, Alfred O., assignor.)
Sanderson, Frank N. (See Specht, Richard A., assignor.)
Sanderson, William, Pittsburgh, Pa. Hoisting mechanism for dumping-vehicles. No. 1,332,308; Mar. 2; v. 272; p. 25.
Sanderson, William, Conneautville, Pa. Hoisting apparatus for vehicles. No. 1,343,283; June 15; v. 275; p. 444.
Sanderson, William, Conneautville, Pa. End-gate for vehicles. No. 1,356,560; Oct. 26; v. 279; p. 554.
Sanderson, William E., Los Angeles, Calif. Hose-coupling. No. 1,360,588; Nov. 30; v. 280; p. 882.
Sandford, William H., Armagh, Ireland. Device for securing hawsers, ropes, and the like. No. 1,355,004; Oct. 5; v. 279; p. 110.
Sandin, Arthur L., Bismarck, N. D. Cotter-pin puller. No. 1,338,043; Apr. 27; v. 273; p. 648.
Sandman, August G., Baltimore, Md., assignor to W. P. Murphy, Chicago, Ill. Freight-car. No. 1,349,106; Aug. 10; v. 277; p. 241.
Sandmann, Frank A., Rahway, N. J. Metal filing-case. No. 1,340,562; May 18; v. 274; p. 492.
Sandor, Andrew, New York, N. Y. Jumping toy. No. 1,347,663; July 27; v. 276; p. 638.
Sands, A. B., & Son Co. (See Leonard, James H., assignor.)
Sands, Holton E. (See Sherwen, Peter, assignor.)
Sands Manufacturing Company, The. (See Raffel, Ferdinand A., assignor.)
Sands, Robert B., Spencer, Iowa. Inner liner for cement-tile pallets. No. 1,336,865; Apr. 13; v. 273; p. 280.
Sandstrom, Barney, Sultana, Calif. Land-scraper or leveling-machine. No. 1,343,159; June 8; v. 275; p. 357.
Sandstrom, George, Oakland, Calif. Banjo. No. 1,354,268; Sept. 28; v. 278; p. 643.
Sandstrom, Theodore, Indianapolis, Ind. Trailer for motor-driven vehicles. No. 1,343,790; June 15; v. 275; p. 544.
Sandt, Arthur R., C. F. Walz, and M. L. Stahl, Minneapolis, Minn. Platform and mud-guard. No. 1,337,275; Apr. 20; v. 273; p. 432.
Sandwich Manufacturing Company. (See Hartman, Charles, assignor.)
Sanford, Charles L., Washington, Pa., assignor, by mesne assignments, to Pittsburgh Aeroplane & Motor Company. Propeller. No. 1,357,348; Nov. 2; v. 280; p. 28.
Sanford, Charles S., Woonsocket, S. D. Antifreeze composition designed particularly for use in radiators of engine-cooling systems. No. 1,363,816; Dec. 28; v. 281; p. 696.
Sanford, Crocker H., assignor to The Old Dominion Specialty Co., Inc., Baltimore, Md. Mixing device. No. 1,328,204; Jan. 13; v. 270; p. 309.
Sanford, Crocker H., assignor to the Old Dominion Specialty Co., Inc., Baltimore, Md. Fluid-mixing apparatus. No. 1,338,592; Apr. 27; v. 273; p. 750.
Sanford, Edwin P. (See Smith, W. F., and Sanford.)
Sanford, George A. (See Coldwell, Harry T., assignor.)
Sanford, Henry H., Mansfield, Ohio. Combined solid and gaseous fuel range. No. 1,338,701; May 4; v. 274; p. 10.
Sanford, John V., Canton, Ohio. Adjustable bearing. No. 1,356,561; Oct. 26; v. 279; p. 555.
Sanford, Lottie. (See Church, Ira, assignor.)
Sanford, Louis A., assignor to American Coke & Chemical Company, Chicago, Ill. Coke-oven-door machine. No. 1,361,186; Dec. 7; v. 281; p. 41.
Sanford, Percy P., Woodridge, N. Y. Fountain-pen. No. 1,351,873; Sept. 7; v. 278; p. 32.
Sanford, Riley, Stoker Co. (See Riley, Robert S., assignor.)
Sang, Charley, Castroville, Calif. Potato-picker. No. 1,343,586; June 15; v. 275; p. 503.
Sangamo Electric Company. (See Bard, J. W., and White, assignors.)
Sangamo Electric Company. (See Emens, Albert L., assignor.)
Sangamo Electric Company. (See White, O., and Young, assignors.)
Sanger, Charles, Bay St. Louis, Miss. Salvaging apparatus. No. 1,339,717; May 11; v. 274; p. 276.
Sangoff, Peter, Quincy, Mass. Ship-protector. No. 1,344,151; June 22; v. 275; p. 679.
Sanguinet, George A., St. Louis, Mo. Wringer-mop. No. 1,352,837; Sept. 14; v. 278; p. 255.
Sani-Fold Company of California, The. (See Lloyd, Converse W., assignor.)
Sanitary Can Machinery Company. (See Brenzinger, Julius, assignor.)
Sanitary Heating and Ventilating Company. (See Cox, William F., assignor.)

Digitized by Google

Alphabetical list of patentees—Continued.

Sanker, Leonard J., assignor to F. E. Andreani, Los Angeles, Calif. Wind-deflector for autos. No. 1,359,843; Nov. 23; v. 280; p. 667.
Sanna, Anthony R., Washington, D. C., assignor to G. P. Sacks, Bethesda, Md. Ice-cream machinery. No. 1,351,302; Aug. 31; v. 277; p. 851.
Sanneman, Diedrich B. (See Trubenbach, C. D., and Sanneman.)
Sanowski, Walter, Carnegie, Pa. Rail-fastener. No. 1,339,718; May 11; v. 274; p. 276.
Sanseal Corporation, The. (See Pease, H. D., and Cohoe, assignors.)
Sansoucy, Arthur, Troy, N. Y. Carburation device. No. 1,359,279; Nov. 16; v. 280; p. 510.
Santa Emma, Pasquale, Venice, Calif. Cornet-mute. No. 1,342,846; June 8; v. 275; p. 205.
Santacroce, Agostino, Cleveland, Ohio. Shoe-heel. No. 1,351,543; Aug. 31; v. 277; p. 899.
Santilli, Stefano, Canton, Ohio. Grating device. No. 1,346,340; July 13; v. 276; p. 262.
Santilli, Stefano, Canton, Ohio. Fruit-crusher. No. 1,352,537; Sept. 14; v. 278; p. 194.
Santilli, Stefano, Canton, Ohio. Separator. No. 1,358,337; Nov. 9; v. 280; p. 281.
Santino, Salvatore, assignor to L. C. Berman, Chicago, Ill. Pulling and lifting device. No. 1,339,581; May 11; v. 274; p. 249.
Santino, Salvatore, assignor to L. C. Berman, Chicago, Ill. Jack. No. 1,339,582; May 11; v. 274; p. 249.
Santino, Salvatore, assignor to L. C. Berman, Chicago, Ill. Jack. No. 1,339,583; May 11; v. 274; p. 249.
Santler, Thomas C., Malvern Link, England. Motor-plow. No. 1,338,195; Apr. 27; v. 273; p. 676.
Santoro, Filippo, Holyoke, Mass. Kit-case. No. 1,361,101; Dec. 7; v. 281; p. 24.
Santoro, Harry, New York, N. Y. Chenille scarf. No. 1,328,903; Jan. 27; v. 270; p. 507.
Santos y Suarez, Isaac, and R. de Arozarena y Mendive, Habana, Cuba. Internal-combustion machine. No. 1,349,111; Aug. 10; v. 277; p. 242.
Santos, Vicente C., Singalong, Manila, Philippine Islands. Shoe-fastener. No. 1,353,424; Sept. 21; v. 278; p. 429.
Sanwo, Katsujiro, Fresno, Calif. Tray-piling machine. No. 1,342,463; June 8; v. 275; p. 219.
Sapery, Louis, Brooklyn, N. Y. Babbitt-metal product and making same. No. 1,351,404; Aug. 31; v. 277; p. 872.
Sapper, Charles J. (See Wilson and Sapper.)
Sardo, Jacob, Johnstown, Pa. Clothesline-reel. No. 1,352,994; Sept. 14; v. 278; p. 286.
Sardo, John, and P. Pariso, Elmira, N. Y. Micrometer. No. 1,333,453; Mar. 9; v. 272; p. 293.
Sargeant, Arthur C., Agawam, Mass. Door-stop. No. 1,352,147; Sept. 7; v. 278; p. 84.
Sargent, Alonzo J., Jackson, Mich. Oar-lock. No. 1,335,606; Mar. 30; v. 272; p. 865.
Sargent Company. (See Garren, George S., assignor.)
Sargent & Company. (See Page, Albert A., assignor.)
Sargent & Company. (See Roberts, Frank E., assignor.)
Sargent Company. (See Sargent, George H., assignor.)
Sargent & Company. (See Shaw, John H., assignor.)
Sargent & Company. (See Voight, Henry G., assignor.)
Sargent, Fitz William, Mahwah, N. J., assignor to The American Brake Shoe and Foundry Company, Wilmington, Del. Brake-shoe. No. 1,328,594; Jan. 20; v. 270; p. 420.
Sargent, Fitz William, Mahwah, N. J., assignor to The American Brake Shoe and Foundry Company, Wilmington, Del. Brake-shoe. No. 1,328,595; Jan. 20; v. 270; p. 420.
Sargent, Fitz William, Mahwah, N. J., assignor to The American Brake Shoe and Foundry Company, Wilmington, Del. Brake-shoe. No. 1,328,596; Jan. 20; v. 270; p. 420.
Sargent, Fred, Reliance, Va. Educational device. No. 1,332,761; Mar. 2; v. 272; p. 112.
Sargent, Fred W., assignor to Tolman Print, Incorporated, Brockton, Mass. Advertising display device. No. 1,348,899; Aug. 10; v. 277; p. 200.
Sargent, Frederick, Chicago, Ill. Expansion connection. No. 1,342,133; June 1; v. 275; p. 102.
Sargent, Frederick G., Westford, assignor to C. G. Sargent's Sons Corporation, Graniteville, Mass. Apron for driers and the like. No. 1,357,256; v. 280; p. 11.
Sargent, George H., assignor to Sargent Company, Chicago, Ill. Grease-cup. No. 1,332,920; Mar. 9; v. 272; p. 194.
Sargent, Herbert L., Salem, assignor of one-half to L. B. Pickering, Salem, and one-half to M. E. Sargent, Danvers, Mass. Inking device for printing-presses. No. 1,358,021; Nov. 9; v. 280; p. 218.
Sargent, Herbert W., assignor to Sargent Tile Ditcher Company, Fort Dodge, Iowa. Gathering conveyer-bucket. No. 1,351,791; Sept. 7; v. 278; p. 15.
Sargent, Howard R., and T. A. Koch, Schenectady, N. Y., assignors to General Electric Company. Socket or receptacle. No. 1,334,799; Mar. 23; v. 272; p. 654.
Sargent, Lemuel H., Fort Worth, Tex. Well-cleaner. No. 1,345,555; July 6; v. 276; p. 45.
Sargent, Mary E., *et al.* (See Sargent, Herbert L., assignor.)
Sargent, Ralph N. (See Foersterling, H., Philipp, and Sargent.)
Sargent Tile Ditcher Company. (See Sargent, Herbert W., assignor.)
Sargent, W. H., assignor to Wayne Manufacturing Company, St. Louis, Mo. Washing-machine. No. 1,350,115; Aug. 17; v. 277; p. 511.
Sargent, William H., St. Louis, Mo. Washing-machine. No. 1,363,275; Dec. 28; v. 281; p. 592.
Sargent, William H., assignor to Wayne Manufacturing Company, St. Louis, Mo. Washing-machine. No. 1,350,116; Aug. 17; v. 277; p. 511.
Sargent, William H., assignor to Wayne Manufacturing Company, St. Louis, Mo. Washing-machine. No. 1,352,225; Sept. 7; v. 278; p. 98.
Sargent, William H., assignor to Wayne Manufacturing Company, St. Louis, Mo. Washing-machine. No. 1,359,537; Nov. 23; v. 280; p. 606.
Sargent's, C. G., Sons Corporation. (See Cilley, Osborn H., assignor.)
Sargent's, C. G., Sons Corporation. (See Furbush, Frank L., assignor.)
Sargent's, C. G., Sons Corporation. (See Sargent, Frederick G., assignor.)
Sargery, Joseph A., and O. Dupont, Sherbrooke, Quebec, Canada. Fountain-toothbrush. No. 1,336,390; Apr. 6; v. 273; p. 130.
Sarjeant, Alexander J., assignor of one-fourth to W. B. Robeson and one-fourth to A. M. Rose, Port Huron, Mich. Apparatus for applying and removing hose-couplings, nipples, bands, &c. No. 1,342,763; June 8; v. 275; p. 278.
Sarjent, Erling, Kingfisher, Okla. Engine. No. 1,350,570; Aug. 24; v. 277; p. 647.
Sárközy, Eugene, New York, N. Y. Knife. No. 1,345,637; July 6; v. 276; p. 60.
Särnmark, Axel U., Gottenborg, Sweden. Porous mass. No. 1,335,200; Mar. 30; v. 272; p. 790.
Särnmark, Axel U., Stockholm, Sweden. Selective control system. No. 1,347,715; July 27; v. 276; p. 649.
Särnmark, Axel U., Gottenborg, Sweden. Thermostatic cut-off. No. 1,352,538; Sept. 14; v. 278; p. 194.
Sarron, Paul F. (See Simon, J., and Sarron.)
Sartain, Isaac M., Tracy City, Tenn. Spring-tire. No. 1,329,021; Jan. 27; v. 270; p. 529.
Sartakoff, Jack D., New York, N. Y. Automatic water-feed for storage batteries. No. 1,349,297; Aug. 10; v. 277; p. 280.
Sartakoff, Jack D., New York, N. Y. Sanitary attachment for telephones. No. 1,354,780; Oct. 5; v. 279; p. 67.
Sarvolley, Adolph, Brazil, Ind. Automatic safety-gate for railway-crossings. No. 1,361,408; Dec. 7; v. 281; p. 86.
Sas, Elmer. (See Erdoes, J., and Sas.)
Saslow, Edward, Muskegon, Mich. Electric apparatus for heating and vaporizing hydrocarbon fuels. No. 1,347,177; July 20; v. 276; p. 485.
Sass, Frank, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Heat-regulating attachment for tube-machines. No. 1,360,323; Nov. 30; v. 280; p. 830.
Sass, Fred J., assignor to Culter & Proctor Stove Co., Peoria, Ill. Stove. No. 1,338,463; Apr. 27; v. 273; p. 726.
Sasse, Arno R. (See Fegan, Elmer T., assignor.)
Sasse, William B. C., Spearfish, S. D. Clothespin. No. 1,357,121; Oct. 26; v. 279; p. 664.
Satenstein, Jesse, New York, N. Y. Book-cover-making machine. No. 1,328,767; Jan. 20; v. 270; p. 452.
Satlow, Joseph. (See Koretzky, Harry M., assignor.)
Sato, Natsuo, San Francisco, Calif. Illuminated aquarium. No. 1,333,454; Mar. 9; v. 272; p. 294.
Sato, Ryuji, New York, N. Y. Toy and game. No. 1,350,082; Aug. 17; v. 277; p. 505.
Satow, Sadakichi, Sendai, Japan. Sauce and making same. No. 1,332,448; Mar. 2; v. 272; p. 53.
Satre, John. (See Paul, Louis, assignor.)
Satterfield, Rosa P., San Antonio, Tex. Sun-hat. No. 1,352,838; Sept. 14; v. 278; p. 255.
Satterlee, Charles H., Danville, Ill. Brake. No. 1,342,352; June 1; v. 275; p. 144.
Satterlee, John P., Klamath Falls, Oreg. Auditorium, assembly-room, or theater chair or bench. No. 1,252,415; Sept. 7; v. 278; p. 134.
Sattler, John H., San Francisco, Calif. Combined coal and gas stove. No. 1,352,539; Sept. 14; v. 278; p. 194.
Satzman, A., New York, N. Y., assignor to H. Bernard, Fort Plain, N. Y. Safety coal-chute cover. No. 1,330,012; Feb. 3; v. 271; p. 124.
Saucke, Herman, New York, N. Y. Pipe-fitting. No. 1,342,825; June 8; v. 275; p. 291.
Sauder, Ora K., Grabill, Ind. Wheel or rim spreader. No. 1,350,524; Aug. 24; v. 277; p. 638.
Sauer, George H. (See St. John, H. A., and Sauer.)
Sauer, Vonnie O., and F. C. Wegener, Des Moines, Iowa. Hydraulic mixing device; No. 1,341,283; May 25; v. 274; p. 701.
Sauer, Vonnie O., and W. B. Reeve, Des Moines, Iowa. Folding extension step. No. 1,349,585; Aug. 17; v. 277; p. 409.

Digitized by Google

Sauerbrei, John W., Kenora, Ontario, Canada. Car-fender. No. 1,353,854; Sept. 28; v. 278; p. 559.
Sauereisen, Christian F., West View, Pa. Insulator. No. 1,355,272; Oct. 12; v. 279; p. 216.
Saul, John, Jersey City, N. J. Cushion-tire. No. 1,356,115; Oct. 19; v. 279; p. 421.
Sauls, Norris J., Plant City, Fla. Safety device for rail ways. No. 1,348,056; July 27; v. 276; p. 718.
Saulze, Antoine, Lyon, France. Autogenous-welding apparatus. No. 1,335,922; Apr. 6; v. 273; p. 41.
Saunders, Addison T., Chicopee, Mass., assignor to A. G. Spalding & Bros., Jersey City, N. J. Shoe-sole. No. 1,330,552; Feb. 10; v. 271; p. 257.
Saunders, Addison T., Chicopee, Mass., assignor to A. G. Spalding & Bros., Jersey City, N. J. Tennis-ball. (Reissue.) No. 14,832; Mar. 30; v. 272; p. 888.
Saunders, Addison T., Chicopee, Mass., assignor to A. G. Spalding & Bros., Jersey City, N. J. Rubber sole for shoes. No. 1,361,907; Dec. 14; v. 281; p. 252.
Saunders, Bertram H. (See Taylor, C., and Saunders.)
Saunders, C. L., G. C. Stanley, and C. W. Bennett, Ithaca, N. Y. Fireproof fabric and producing the same. No. 1,358,250; Nov. 9; v. 280; p. 263.
Saunders, Clarence, assignor to Piggly Wiggly Corporation, Memphis, Tenn. Self-serving store. No. 1,357,521; Nov. 2; v. 280; p. 60.
Saunders, Clarence R. (See Alexander, George D., assignor.)
Saunders, Daniel G., administrator. (See Saunders, Daniel G., Jr.)
Saunders, Daniel G., Jr., deceased; G. Saunders, administrator, assignor to A. C. Brown, Kansas City, Mo. Mounting for heavy guns. No. 1,357,478; Nov. 2; v. 280; p. 52.
Saunders, Daniel G., Jr., deceased; G. Saunders, administrator, assignor to A. C. Brown, Kansas City, Mo. Mounting for heavy guns. No. 1,357,479; Nov. 2; v. 280; p. 52.
Saunders, Fletcher A., San Pedro, Calif. Concrete cooker. No. 1,349,784; Aug. 17; v. 277; p. 448.
Saunders, Harold F., Boundbrook, N. J., and L. T. Sutherland, Malba, assignors to The Glysyn Corporation, New York, N. Y. Chlorinating hydrocarbons. No. 1,362,355; Dec. 14; v. 281; p. 320.
Saunders, Harry W., Charlotte, N. C. Valve-cap. No. 1,357,906; Nov. 2; v. 280; p. 134.
Saunders, Lawrence D., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Motor-driven compressor. No. 1,328,340; Jan. 20; v. 270; p. 372.
Saunders, Lewis E., Niagara Falls, N. Y., assignor to Norton Company, Worcester, Mass. Converting refractory oxids. No. 1,352,387; Sept. 7; v. 278; p. 129.
Saunders, Lewis E., assignor to Norton Company, Worcester, Mass. Shrinking magnesia. No. 1,352,388; Sept. 7; v. 278; p. 129.
Saunders, William H., Cleveland, Ohio. Bottle-holder. No. 1,363,168; Dec. 21; v. 281; p. 530.
Saunders, William H., Los Angeles, Calif. Hammer. No. 1,363,357; Dec. 28; v. 281; p. 607.
Saunders, William M., Waterbury, Conn., assignor to The Hoge Manufacturing Company, New York, N. Y. Pencil. No. 1,328,300; Jan. 20; v. 270; p. 364.
Saunders, William M., Waterbury, Conn., assignor to The Hoge Manufacturing Company, New York, N. Y. Pencil-clip. No. 1,358,338; Nov. 9; v. 280; p. 281.
Saunderson, Herbert P., Bedford, England. Plow. No. 1,335,078; Mar. 30; v. 272; p. 767.
Saunderson, Herbert P., Bedford, England. Change-speed gearing. No. 1,339,477; May 11; v. 274; p. 280.
Saurage, James R., Baton Rouge, La. Automobile-signal. No. 1,345,259; June 29; v. 275; p. 959.
Saurer, Firma Adolph. (See Schlatter, G., and Segin, assignors.)
Saurer, Firma Adolphe. (See Hänni, Ernest, assignor.)
Saurer, Firma Adolphe. (See Schlatter, Gustav, assignor.)
Saurer, Hippolyt, Arbon, Switzerland. Embroidering-machine. No. 1,328,969; Jan. 27; v. 270; p. 520.
Saurer, Hippolyt, Arbon, Switzerland. Shuttle-operating mechanism for embroidering-machines. No. 1,347,232; July 20; v. 276; p. 496.
Saurer, Hippolyt, Arbon, Switzerland. Apparatus for testing the teeth of gear-wheels. (Reissue.) No. 15,013; Dec. 21; v. 281; p. 539.
Saurusaitis, Peter, Waterbury, Conn. Bobbin-winder. No. 1,360,802; Nov. 30; v. 280; p. 924.
Sauter, Herman, assignor to Latham Automatic Registering Company, Chicago, Ill. Registering-hook. No. 1,336,487; Apr. 13; v. 273; p. 207.
Sauter, Herman C., New York, N. Y. Spinning-top. No. 1,349,226; Aug. 10; v. 277; p. 265.
Sauvage, Herbert J., Chicago, Ill. Motor-vehicle. No. 1,346,914; July 20; v. 276; p. 434.
Sauvage, Herbert J., Chicago, Ill. Tractor. No. 1,346,915; July 20; v. 276; p. 434.
Sauvage, William H., Flushing, N. Y. Brake mechanism. No. 1,342,599; June 8; v. 275; p. 246.
Sauvage, William H., Flushing, N. Y. Hand-brake. No. 1,343,005; June 8; v. 275; p. 327.
Sauvage, William H., Buffalo, N. Y. Hand-brake. No. 1,343,006; June 8; v. 275; p. 327.
Sauvage, William H., Flushing, N. Y. Hand-brake. No. 1,343,007; June 8; v. 275; p. 327.
Sauvage, William H., Buffalo, N. Y. Hand-brake. No. 1,343,008; June 8; v. 275; p. 327.
Sauvage, William H., Flushing, assignor to Atlantic Hand Brake Corporation, Buffalo, N. Y. Hand-brake. No. 1,343,009; June 8; v. 275; p. 327.
Sauvage, William H., Flushing, assignor to Atlantic Hand Brake Corporation, Buffalo, N. Y. Hand-brake. No. 1,330,140; Feb. 10; v. 271; p. 180.
Savage, Edward S., Rochester, N. Y. Cover for ash-receptacles. No. 1,354,847; Oct. 5; v. 279; p. 80.
Savage, Edward S., Rochester, N. Y. Spark-plug. No. 1,359,923; Nov. 23; v. 280; p. 683.
Savage, Edwin H., Cleveland, assignor to The Cleveland Tractor Company, Euclid, Ohio. Track-belt unit. No. 1,330,955; Feb. 17; v. 271; p. 402.
Savage, Edwin H., Cleveland, assignor to The Cleveland Tractor Company, Euclid, Ohio. Track-wheel suspension for track-laying tractors. No. 1,359,538; Nov. 23; v. 280; p. 607.
Savage, Stanley W. (See Dabbs, A. E., Savage, and Hindle.)
Savage, Stanley W. (See Dabbs, Savage, and Hindle.)
Savage, Stanley W. (See Hindle, A. H., Savage, Liddle, and Dabbs.)
Savage Tire Company, The. (See Flegal, Forrest G., assignor.)
Savage Tire Company, The. (See Morris, Howard I., assignor.)
Savage, W. J., Company. (See Draver, Henry C., assignor.)
Savage, Will R., Omaha, Nebr. Electric radiator. No. 1,330,904; Feb. 17; v. 271; p. 892.
Savage, Will R., Omaha, Nebr. Snap-switch for electrical heating apparatus. No. 1,355,701; Oct. 12; v. 279; p. 299.
Savage, William, Three Rivers, Quebec, Canada. Garbage-incinerator. No. 1,349,785; Aug. 17; v. 277; p. 448.
Savannah Chemical Company *et al.* (See Shuey, Philip M., assignor.)
Savery, William H. (See Percival, Frank N., assignor.)
Savidge, Albert C., and F. D. Hatfield, Indianapolis, Ind. Valve-lathe. No. 1,339,791; May 11; v. 274; p. 239.
Savidge, William G., Northumberland, Pa. Nut-lock. No. 1,328,401; Jan. 20; v. 270; p. 383.
Saville, George A., Jr., Lincoln, Nebr. Ball-bearing spring. No. 1,338,537; Apr. 27; v. 273; p. 740.
Saville, Robert, Burras Hill, Otley, England. Electrode for storage batteries. No. 1,354,513; Oct. 5; v. 279; p. 13.
Savings Investment and Trust Company, executors, *et al.* (See Aylsworth, J. W., and Aiken.)
Savitsky, Constantine, Denver, Colo. Dictionary-key. No. 1,353,615; Sept. 21; v. 278; p. 468.
Savitsky, Constantine, Denver, Colo. Braced cooking and heating attachment for lamps. No. 1,357,426; Nov. 2; v. 280; p. 43.
Savoie, Joseph, Central Falls, R. I. Buffer-bracket for picker-sticks. No. 1,354,072; Sept. 28; v. 278; p. 603.
Savon, Roger, Paris, France. Joint for metal tubes. No. 1,329,479; Feb. 3; v. 271; p. 26.
Savonius, Sigurd, Helsingfors, Finland. Apparatus for melting snow and the like. No. 1,339,719; May 11; v. 274; p. 276.
Savy, Emile L. A., Courbevoie, France. Coating apparatus. No. 1,341,023; May 25; v. 274; p. 651.
Sawders, Frank P., and J. G. Murray, Pittsburgh, Pa. Carrier-bearing. No. 1,339,476; May 11; v. 274; p. 229.
Sawders, Frank P., and J. G. Murray, Pittsburgh, Pa. Muffler. No. 1,342,464; June 8; v. 275; p. 219.
Sawders, Frank P., and J. G. Murray, Pittsburgh, Pa. Spring-shackle. No. 1,352,633; Sept. 14; v. 278; p. 213.
Sawhill, Edgar P., assignor to The C. O. Bartlett and Snow Company, Cleveland, Ohio. Automatic gate-operating mechanism. No. 1,362,441; Dec. 14; v. 281; p. 337.
Sawicki, Tofeal. (See Mastalerz, Joseph, assignor.)
Sawtell, William H., assignor of one-half to N. R. Thibert, Worcester, Mass. Nut-locking device. No. 1,347,294; July 20; v. 276; p. 509.
Sawtelle, Charles A., assignor of one-half to S. J. Porter, Detroit, Mich. Internal-combustion engine of the two-cycle type. No. 1,333,635; Mar. 16; v. 272; p. 389.
Sawyer, Edward A. (See Sturtevant, T. J., and Sawyer.)
Sawyer, Green B. (See Blakemore, James R., assignor.)
Sawyer, H. M., & Sons. (See Huntington, Paul O., assignor.)
Sawyer, Harry, assignor to Shaw Electric Crane Company, Muskegon, Mich. Brake mechanism for hoisting machinery. No. 1,351,792; Sept. 7; v. 278; p. 15.
Sawyer, Harry B., Ogden, Utah. Safety trolley-finder. No. 1,341,284; May 25; v. 274; p. 701.
Sawyer, Howard L., deceased; F. Oleson, administrator, assignor to H. I. S. Motor Corporation, Pomeroy, Wash. Two-cycle gas-motor. No. 1,360,689; Nov. 30; v. 280; p. 902.
Sawyer, Howard L., deceased; F. Oleson, administrator, assignor to H. I. S. Motor Corporation, Pomeroy, Wash. Explosive-motor. No. 1,360,690; Nov. 30; v. 280; p. 902.

Digitized by Google

Alphabetical list of patentees—Continued.

Sawyer, J. W. (See Casler, Harold E., assignor.)
Sawyer, Lyddell, London, England. Film for cinematographs and the like. No. 1,356,223; Oct. 19; v. 279; p. 442.
Sawyer, Marion B. (See Hanson, H. C., and Sawyer.)
Sawyer, Marion B. (See Hanson, H. L., and Sawyer.)
Sawyer, Pickins A., Memphis, Tenn. Puncture-proof inner tube for tires. No. 1,332,309; Mar. 2; v. 272; p. 25.
Sawyer, Simeon F., Candor, N. Y. Folding music-cabinet. No. 1,358,583; Nov. 9; v. 280; p. 330.
Sawyer-Soucy, Albert G. (See Sawyer-Soucy, Louis and A. G.)
Sawyer-Soucy, Louis and A. G., Lynn, Mass. Electric-light regulator. No. 1,340,795; May 18; v. 274; p. 586.
Sawyer, Walter H., Auburn, Me. Treatment of resinous woods for the recovery of resins and turpentine. No. 1,334,679; Mar. 23; v. 272; p. 681.
Sawyers, George L., Fort Myers, Fla. Train-operated crossing-signal. No. 1,356,090; Oct. 19; v. 279; p. 415.
Saxe, Walter E., Inglewood, Calif. Panoramic apparatus; No. 1,357,656; Nov. 2; v. 280; p. 86.
Saxon, Herman H., assignor, by mesne assignments, to Electric Auto-Lite Corporation, Toledo, Ohio. Commutator. No. 1,351,926; Sept. 7; v. 278; p. 48.
Saxon, Herman R., Toledo, Ohio. Traffic-signal. No. 1,350,469; Aug. 24; v. 277; p. 627.
Saxon, Herman R., assignor, by mesne assignments, to Industrial Research Corporation, Toledo, Ohio. Latch for motor-vehicle hoods. No. 1,361,622; Dec. 7; v. 281; p. 130.
Saxon, Herman R., and G. Gansert, assignors, by mesne assignments, to Industrial Research Corporation, Toledo, Ohio. Fuel-feeding device. No. 1,361,621; Dec. 7; v. 281; p. 129.
Saxon, Sarah A. (See Hood, James J., assignor.)
Sayers, Albert J., assignor to Link-Belt Company, Chicago, Ill. Universal automatic car-lock for rotary dumps. No. 1,333,345; Mar. 9; v. 272; p. 278.
Sayford, Frank M., Brooklyn, N. Y. Stencil-card and stenciling monograms. No. 1,351,068; Aug. 31; v. 277; p. 805.
Saylor, Charles R., Baltimore, Md. Pipe-cutter. No. 1,360,803; Nov. 30; v. 280; p. 924.
Sayre, Charles E., Pittsburgh, Pa. Drive mechanism. No. 1,360,691; Nov. 30; v. 280; p. 902.
Sayre, William H., Glen Ridge, N. J. Rabble-blade. No. 1,340,916; May 25; v. 274; p. 629.
Sayre, William H., Glen Ridge, N. J., assignor to American Abrasive Metals Co. Rotary wear-resisting structure. No. 1,330,988; Feb. 17; v. 271; p. 408.
Sayres, Frank E., Thane, Alaska. Wrench. No. 1,350,671; Aug. 24; v. 277; p. 666.
Sayres, Frank E., Thane, Alaska. Monkey-wrench. No. 1,350,672; Aug. 24; v. 277; p. 666.
Scalbom, Oscar L., Chicago, Ill. Die-maker's gage. No. 1,333,223; Mar. 9; v. 272; p. 250.
Scallone, Charles C. (See Frazer, J. C. W., and Scallone.)
Scanes, Arthur E. L., Ashton-on-Mersey, England, assignor to The British Westinghouse Electric and Manufacturing Company Limited. Pump or compressor. No. 1,327,294; Jan. 6; v. 270; p. 77.
Scanes, Arthur E. L., Ashton-on-Mersey, England, assignor to The British Westinghouse Electric and Manufacturing Company, Limited. Apparatus for exhausting air and noncondensable gases. No. 1,346,980; July 20; v. 276; p. 447.
Scanes, Arthur E. L., Ashton-on-Mersey, England, assignor to The British Westinghouse Electric and Manufacturing Company Limited. Valve device. No. 1,347,411; July 20; v. 276; p. 532.
Scanes, Arthur E. L., Ashton-on-Mersey, assignor to The British Westinghouse Electric & Manufacturing Company, Limited, London, England. Steam-condenser apparatus. No. 1,353,855; Sept. 28; v. 278; p. 559.
Scanes, Arthur E. L., assignor to The British Westinghouse Electric and Manufacturing Company, Limited, Ashton-on-Mersey, England. Steam-condenser and the like. No. 1,358,022; Nov. 9; v. 280; p. 218.
Scanlan, George H., New York, N. Y. Tractor forward and reverse gearing. No. 1,359,109; Nov. 16; v. 280; p. 477.
Scanlan, Joseph, Brooklyn, N. Y. Velocipede. No. 1,342,720; June 8; v. 275; p. 269.
Scanlan, Thomas J., Montreal, Quebec, Canada. Crossover. No. 1,327,882; Jan. 13; v. 270; p. 248.
Scanlin, Edward, and C. Reath, Philadelphia, Pa. Yarn-feed mechanism for knitting-machines. No. 1,349,298; Aug. 10; v. 277; p. 280.
Scanlin John S., Oak Park, Ill. Crosshead for locomotives. No. 1,354,781; Oct. 5; v. 279; p. 67.
Scanlon, Stephen, New York, N. Y. Metal lath. No. 1,351,694; Aug. 31; v. 277; p. 928.
Scannell, John P., assignor to Chicago Title & Trust Company, Chicago, Ill. Autographic film-cartridge and using same. No. 1,358,990; Nov. 16; v. 280; p. 456.
Scaramella Albert. (See Reno, M. J., and Scaramella.)
Scaramussi, Anthony T., assignor of one-half to T. J. Corrigan, Paterson, N. J. Skein-dyeing machine. No. 1,357,522; Nov. 2; v. 280; p. 60.
Scarborough, Donald S., assignor of one-half to T. Watson, St. Louis, Mo. Ignition-lock. No. 1,329,930; Feb. 3; v. 271; p. 109.
Scarborough, George G., Girdletree, Md. Heating-stove. No. 1,343,645; June 15; v. 275; p. 515.
Scarborough, Henry. (See Dostal, John R., assignor.)
Scarborough, Henry. (See Steere, Clarence E., assignor.)
Scarborough, Laura M. (See Atamian, Krikor, assignor.)
Scarborough, Percy C., Atlanta, Ga. System for construction of silos, &c. No. 1,329,633; Feb. 3; v. 271; p. 54.
Scarborough, R. C. (See Henry, Murray, assignor.)
Scarbrough, Levi, Weldon, Ill. Grappling-tool. No. 1,340,088; May 11; v. 274; p. 374.
Scardone, Joseph, Vineland, N. J. Making torpedoes. No. 1,350,845; Aug. 24; v. 277; p. 609.
Scarff, Truman M., Springvalley, Ohio. Roofing. No. 1,335,756; Apr. 6; v. 273; p. 10.
Scarl, John, New York, N. Y., assignor to General Ceramics Company, Jersey City, N. J. Making spark-plug insulators. No. 1,343,686; June 15; v. 275; p. 523.
Scarlett, Arthur R., Shirley, Southampton, England. Cement. No. 1,359,434; Nov. 16; v. 280; p. 541.
Scarlett, Edward J., Oklahoma, Okla. Safety-vault for automobiles. No. 1,356,742; Oct. 26; v. 279; p. 590.
Scarponi, Nazzareno, Dover, N. H., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Softening device for shoes. (Reissue.) No. 14,812; Mar. 2; v. 272; p. 134.
Scarsten, Christian P., Brooklyn, N. Y. Eye-testing apparatus. No. 1,358,789; Nov. 16; v. 280; p. 416.
Sceltz, Frank, Harrison, N. Y. Window-ventilator. No. 1,353,789; Sept. 21; v. 278; p. 502.
Schaab, Richard. (See Hunt, H., and Schaab.)
Schaaf, Albert E., and S. W. Mills, Indianapolis, Ind. Tractor. No. 1,342,764; June 8; v. 275; p. 278.
Schaaf, Albert E., and S. W. Mills, assignors to Highway Tractor Company, Indianapolis, Ind. Tractor. No. 1,342,765; June 8; v. 275; p. 279.
Schaake, William, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Pantograph-trolley. No. 1,354,134; Sept. 28; v. 278; p. 616.
Schaake, William, assignor to Westinghouse Electric & Manufacturing Company, Pittsburgh, Pa. Insulator. No. 1,363,673; Dec. 28; v. 281; p. 668.
Schaanning, Peder C., Vestre Aker, near Christiania, Norway. Magazine grinding apparatus for manufacture of wood-pulp. No. 1,341,156; May 25; v. 274; p. 676.
Schaanning, Peder C., Vestre Holmen, near Christiania, Norway. Grinding apparatus for the manufacture of wood-pulp. No. 1,342,231; June 1; v. 275; p. 122.
Schaap, Alexander K., New York, assignor to E. C. Schaap, Brooklyn, N. Y. Piston-ring and mounting therefor. No. 1,357,729; Nov. 2; v. 280; p. 100.
Schaap, Eva C. (See Schaap, Alexander K., assignor.)
Schaar & Company. (See Pulsifer, Harrie B., assignor.)
Schaben, Joseph. (See Blomster, J., and Schaben.)
Schachne, Hannah, New York, N. Y. Coat-protector. No. 1,335,608; Mar. 30; v. 272; p. 865.
Schacht, Julius, New York, N. Y. Danger-signal for automobiles. No. 1,336,381; Apr. 6; v. 273; p. 128.
Schachter, Nathan, Chicago, Ill. Manufacturing shock-absorber springs. No. 1,331,677; Feb. 24; v. 271; p. 557.
Schachter, Nathan, Chicago, Ill. Shock-absorber spring and blank therefor. No. 1,352,540; Sept. 14; v. 278; p. 194.
Schackelton, William J., Scotch Plains, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Loading-coil and constructing same. No. 1,334,321; Mar. 23; v. 272; p. 564.
Schade, Edmund A., assignor to The Stanley Rule & Level Company, New Britain, Conn. Carpenter's plane. No. 1,331,280; Feb. 17; v. 271; p. 461.
Schade, John, assignor to National Bank Book Company, Holyoke, Mass. Loose-leaf binder. No. 1,342,766; June 8; v. 275; p. 279.
Schadt, Albert M., and M. Griffis, Vienna, assignor of one-sixth to T. G. Kennedy and one-sixth to A. F. Kennedy, Youngstown, Ohio. Scattering-unloader. No. 1,332,006; Feb. 24; v. 271; p. 619.
Schaefer, Adolph O., assignor, by mesne assignments, to Atlantic Service Company, Inc., Brooklyn, N. Y. Attachment for saws. No. 1,339,139; May 4; v. 274; p. 92.
Schaefer, Albert B., New York, N. Y. Heel for shoes. No. 1,341,521; May 25; v. 274; p. 747.
Schaefer, August, assignor to Northwest Process Company, Portland, Oreg. Apparatus for recovering volatile and fermentable matter from liquids. No. 1,342,721; June 8; v. 275; p. 269.
Schaefer, Edward J., Hespeler, Ontario, Canada. Phonograph-cabinet. No. 1,349,439; Aug. 10; v. 277; p. 307.
Schaefer, Emanuel, Jacksonville, Fla. Comb-cleaner. No. 1,362,746; Dec. 21; v. 281; p. 448.
Schaefer, Frederick, Pittsburgh, Pa. Brake-pin. No. 1,344,596; June 22; v. 275; p. 767.
Schaefer, George A., Chicago, Ill. Connector-clip. No. 1,327,844; Jan. 13; v. 270; p. 241.
Schaefer, Henry G., Cleveland, Ohio. Loading device. No. 1,329,290; May 4; v. 274; p. 118.
Schaefer, Herman G. (See Beamish, R. S., and Schaefer.)
Schaefer, John P., Louisville, Ky. Removing paint. No. 1,357,720; Nov. 2; v. 280; p. 100.
Schaefer, Peter C., Denver, Colo. Auto-porch bed. No. 1,347,413; July 20; v. 276; p. 532.

Digitized by Google

Schaefer, Peter C., H. D. Hulse, and G. M. Livingstone, Denver, Colo., assignors to said P. C. Schaefer. Auto-porch bed. No. 1,347,412; July 20; v. 276; p. 532.
Schaefer, William A. L., assignor to Jointless Fire Brick Company, Chicago, Ill. Constructing one-piece fire-brick arch. No. 1,341,077; May 25; v. 274; p. 661.
Schaefer, William A. L., assignor to Jointless Fire Brick Company, Chicago, Ill. Constructing one-piece fire-brick arch. No. 1,341,078; May 25; v. 274; p. 661.
Schaefer, William J., Ontario, Calif. Cooker. No. 1,328,239; Jan. 13; v. 270; p. 316.
Schaeffer & Budenberg Manufacturing Company, The. (See Amthor, Fritz, assignor.)
Schaeffer, John, assignor to Van Brunt Manufacturing Company, Horicon, Wis. Latch device. No. 1,333,684; Mar. 16; v. 272; p. 398.
Schafer, Adam, Sweet Water, Ill. Incubator. No 1,330,141; Feb. 10; v. 271; p. 180.
Schafer, Christian E., East Cleveland, Ohio. Cover-retainer. No. 1,348,963; Aug. 10; v. 277; p. 213.
Schafer, John V., Marietta, Ohio. Switch. No. 1,359,435; Nov. 16; v. 280; p. 542.
Schäfer, Karl B., Düsseldorf-Holthausen, Germany, assignor to Balthasar Maassen, Brooklyn, N. Y. Elastic holder for lamp-shades and lamp-globes. No. 1,358,023; Nov. 9; v. 280; p. 218.
Schäfer, Max, Stuttgart, Germany, assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Distributer for high-tension igniting devices. No. 1,337,329; Apr. 20; v. 273; p. 443.
Schafer, William M., Jadwin, Mo. Dirigible light. No. 1,341,593; May 25; v. 274; p. 761.
Schaff, George M., Cleveland, Ohio. File-holder cabinet. No. 1,361,549; Dec. 7; v. 281; p. 116.
Schaffer, John C., Tiffin, Ohio. Vibratory screen. No. 1,363,276; Dec. 28; v. 281; p. 592.
Schaffer, Friedrich, Leobarsdorf, near Vienna, Austria, assignor, by mesne assignments, to The Chemical Foundation, Inc. Method of and apparatus for hardening manganese-steel articles. No. 1,362,147; Dec. 14; v. 281; p. 280.
Schaffer, William J., assignor to S. K. F. Ball Bearing Company, Hartford, Conn. Pilot-bar bushing. No. 1,355,168; Oct. 12; v. 279; p. 195.
Schaffner, Charles F., Fayette, Ohio. Silo-chute. No 1,329,801; Feb. 3; v. 271; p. 85.
Schaffner, George H., Detroit, Mich. Illuminated sign No. 1,352,031; Sept. 7; v. 278; p. 62.
Schairer, Otto S., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Gear-shifting mechanism. No. 1,363,674; Dec. 28; v. 281; p. 668.
Schairer, Otto S., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Gear-shifting mechanism. No. 1,363,675; Dec. 28; v. 281; p. 668.
Schakel, Jacob D., assignor to Elevator Company of America, Chicago, Ill. Brake mechanism for elevator systems. No. 1,358,339; Nov. 9; v. 280; p. 281.
Schall, Henry D., assignor to Detroit Stove Works, Detroit, Mich. Range. No. 1,338,870; May 4; v. 274; p. 41.
Schall, Henry D., assignor to Detroit Stove Works, Detroit, Mich. Range. No. 1,339,478; May 11; v. 274; p. 230.
Schall, Henry D., assignor to Detroit Stove Works, Detroit, Mich. Range. No. 1,340,986; May 25; v. 274; p. 644.
Schaller, Jacob J., Chicago, Ill. Cement composition. No. 1,351,874; Sept. 7; v. 278; p. 32.
Schamberg, Morris L., New York, N. Y. Attachment for faucets. No. 1,342,000; June 1; v. 275; p. 75.
Schanbacher, William F., *et al.* (See Dobbins, George R., assignor.)
Schanze, Gustavus A. (See Jencick, Stephen, assignor.)
Schanzlin, William F., Lima, Ohio. Steam-boiler. No. 1,360,030; Nov. 23; v. 280; p. 705.
Schapel, Karl, Tacoma, Wash. Infant-chair. No. 1,338,401; Apr. 27; v. 273; p. 715.
Schaper, Henry C., assignor to The General Automatic Scale Company, St. Louis, Mo. Weight-indicator for scales. No. 1,357,731; Nov. 2; v. 280; p. 101.
Schar, Ferdinand. (See Theumer, R., and Schar.)
Scharff, Gerson. (See Bennett, Lewis J., assignor.)
Scharff, May. (See Munn, William B., assignor.)
Scharffenberg, Jean H., assignor to J. H. Stewart, Lynn, Mass. Counter-flanging machine. No. 1,327,780; Jan. 13; v. 270; p. 230.
Scharmann, Otto T., Marshfield, Wis. Water-circulating pump for combustion-engines. No. 1,336,091; Apr. 6; v. 273; p. 73.
Scharnagel, Herman J., Tompkinsville, N. Y., assignor to Elmer A. Sperry, Brooklyn, N. Y. Multiple-expansion internal-combustion engine. No. 1,353,542; Sept. 21; v. 278; p. 452.
Scharwath, John A. (See Burkhardt, Curt R., assignor.)
Scharwath, John A., Elizabeth, N. J. Insulating-conduit. No. 1,351,133; Aug. 31; v. 277; p. 817.
Schatte, Charles, New York, N. Y. Brush. No. 1,353,184; Sept. 21; v. 278; p. 382.
Schatz, Grover H., *et al.* (See Schatz, John W., assignor.)
Schatz, Herman, A., *et al.* (See Schatz, John W., assignor.)
Schatz, Herman W. (See Sosa, A. M., Robinson, and Schatz.)
Schatz, John W., assignor of one-third to H. A. Schatz and one-third to G. H. Schatz, Poughkeepsie, N. Y. Manufacture of so-called "cup-rings" for antifriction-bearings. No. 1,339,672; May 11; v. 274; p. 267.
Schaub, Eugene, Logan, Utah. Water stage and discharge recorder. No. 1,336,090; Apr. 6; v. 273; p. 73.
Schaub, Jacob, Newark, N. J., assignor to The Theros Company, New York, N. Y. Artificial-fuel machine. No. 1,340,463; May 18; v. 274; p. 473.
Schaub, Jacob, Lawrenceburg, Ind., assignor to The Theros Company, New York, N. Y. Mixing-mill. No. 1,340,464; May 18; v. 274; p. 473.
Schauer, Martha K., Dayton, Ohio. Drawing-table. No. 1,338,254; Apr. 27; v. 273; p. 687.
Schaufelberger, Albert, Paris, France. Circular weft-winding machine. No. 1,343,481; June 15; v. 275; p. 482.
Schauff, Charles, Portland, Oreg. Range-finding apparatus. No. 1,330,013; Feb. 3; v. 271; p. 125.
Schaum, Otto W., assignor to Fletcher Works, Incorporated, Philadelphia, Pa. Silver-burnishing apparatus. No. 1,358,251; Nov. 9; v. 280; p. 263.
Schaumburg, Carl J. (See Schaumburg, Harm W. and C. J.)
Schaumburg, Harm W. and C. J., Milford, Ill. Truck. No. 1,334,559; Mar. 23; v. 272; p. 609.
Scheanblum, Grace. (See Scheanblum, Robert, and G.)
Scheanblum, Robert and Grace, Danbury, Conn. Hair foundation. No. 1,347,915; July 27; v. 276; p. 689.
Scheanblum, Robert and G., Danbury, Conn. Hair-support. No. 1,357,349; Nov. 2; v. 280; p. 29.
Schebora, John, assignor of one-half to F. J. Zapletal, Chicago, Ill. Window frame and sashes. No. 1,332,361; Mar. 2; v. 272; p. 36.
Schechter, Benjamin, St. Louis, Mo. Window-frame. No. 1,359,624; Nov. 23; v. 280; p. 624.
Schechter, Bernard, assignor to American Car Company, St. Louis, Mo. Car-seat. No. 1,355,005; Oct. 5; v. 279; p. 110.
Schechter, Bernard, assignor to American Car Company, St. Louis, Mo. Car-seat. No. 1,363,057; Dec. 21; v. 281; p. 509.
Schechter, Jacob. (See Rosenfeld, Maurice S., assignor.)
Schedler, Arnold, Manchester, England, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Dyestuffs capable of being diazotized and making same. No. 1,342,134; June 1; v. 275; p. 103.
Scheetz, Stephen H., Philadelphia, Pa. Combined hot and cold water spigot. No. 1,355,915; Oct. 19; v. 279; p. 381.
Scheib, Peter, assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Drill-sharpening mechanism. No. 1,349,169; Aug. 10; v. 277; p. 254.
Scheible, Albert. (See Graves, Henry W., assignor.)
Scheich, Conrad. (See Anderson, Nils O., and Scheich.)
Scheick, Edward, Arlington, N. J. Sheet-guide for folding-machines. No. 1,343,791; June 15; v. 275; p. 544.
Scheid, Hugo, New York, N. Y. Folding support. No. 1,361,409; Dec. 7; v. 281; p. 86.
Scheidemantle, Ferdinand P., Ellwood City, Pa. Brad-driver. No. 1,330,283; Feb. 10; v. 271; p. 206.
Scheler, Frank, assignor of one-half to J. Pfaff, Cleveland, Ohio. Flushing-tank. No. 1,335,715; Mar. 30; v. 272; p. 886.
Schein, Charles T. (See Nickol and Schein.)
Scheible, William, assignor to F. N. Burt Company, Limited, Buffalo, N. Y. Machine for making boxes. No. 1,359,110; Nov. 16; v. 280; p. 478.
Schell, Charles F., Buffalo, N. Y. Signaling device. No. 1,337,669; Apr. 20; v. 273; p. 507.
Schell, Charles F., Philadelphia, Pa. Oiling system. No. 1,340,687; May 18; v. 274; p. 516.
Schell, Theodore, assignor to American Steel Products Co., Macomb, Ill. Poultry-fountain and heater therefor. No. 1,343,010; June 8; v. 275; p. 327.
Schelter, John C., Rochester, N. Y., assignor to Fits-Empire Double Pivot Last Company, Auburn, Me. Last. No. 1,330,905; Feb. 17; v. 271; p. 392.
Schelter, John C., Rochester, N. Y., assignor to Fits-Empire Double Pivot Last Company, Auburn, Me. Shoe-last. No. 1,350,340; Aug. 24; v. 277; p. 601.
Schemel, Abraham, Yonkers, N. Y. Ice-creeper. No. 1,354,073; Sept. 28; v. 278; p. 603.
Scheminger, John, Jr., Providence, R. I. Atomizing device for rotary oil-burners. No. 1,327,256; Jan. 6; v. 270; p. 70.
Schenck, Charles, assignor to Budd Wheel Corporation, Philadelphia, Pa. Hub-cap-locking device for wire-spoke or other demountable wheels. No. 1,333,636; Mar. 16; v. 272; p. 389.
Schenck, Christian K. (See Hoover, C. V., and Schenck.)
Schenck, John F., Jr., Shelby, N. C. Attachment for cotton-pickers. No. 1,328,904; Jan. 27; v. 270; p. 507.
Schenck, Samuel B. (See Simmon and Schenck.)
Schenck, Samuel B., Wilkinsburg, and K. A. Simmon, Edgewood Park, Pa., assignors to Westinghouse Electric and Manufacturing Company. System of control. No. 1,330,554; Feb. 10; v. 271; p. 257.
Schendler, Paul H., Erie, Pa. Feed mechanism for clothes-wringers. No. 1,355,006; Oct. 5; v. 279; p. 110.

Digitized by Google

Alphabetical list of patentees—Continued.

Schendler, Paul H., Erie, Pa. Clothes-wringer. No. 1,355,916; Oct. 19; v. 279; p. 381.
Schenk, August C., Vancouver, Wash. Plowshare. No. 1,358,584; Nov. 9; v. 280; p. 330.
Schenk, Bernhardt, Chicago, Ill. Pipe and rod bending machine. No. 1,346,981; July 20; v. 276; p. 448.
Schenk, Martin J., Chicago, Ill. Crank-shaft. No. 1,347,178; July 20; v. 276; p. 485.
Schenk, John, New York, N. Y. Window-shade. No. 1,343,284; June 15; v. 275; p. 444.
Schenkel, Moritz, Charlottenburg, near Berlin, Germany, assignor to Siemens-Schuckert-Werke G. m. b. H., Berlin, Germany. Anode for electric vacuum apparatus. No. 1,326,972; Jan. 6; v. 270; p. 18.
Schenkel, Moritz, Charlottenburg, near Berlin, Germany, assignor to Siemens-Schuckert-Werke, G. m. b. H., Berlin, Germany. Electrical vacuum apparatus. No. 1,328,597; Jan. 20; v. 270; p. 421.
Schenkelberger, Albert F., Quincy, assignor to Safepack Mills, Boston, Mass. Protecting-holder for tennis-rackets and the like. No. 1,336,092; Apr. 6; v. 278; p. 78.
Schenmeyer, Frederick W., West Albany, N. Y. Shade and curtain fixture. No. 1,350,623; Aug. 24; v. 277; p. 657.
Schepeler, Herman A., assignor to A/S Mekano, Copenhagen, Denmark. Switch for the closing of an electric circuit for a certain period. No. 1,348,746; Aug. 3; v. 277; p. 118.
Schepmoes, Lindsley, Hasbrouck Heights, N. J. Locking medium for decorative and other blocks. No. 1,361,501; Dec. 7; v. 281; p. 105.
Schepmoes, Lindsley, Hasbrouck Heights, N. J., assignor to Safety Car Heating & Lighting Company. Lamp construction. No. 1,339,985; May 11; v. 274; p. 326.
Scheppmann, Samuel B., St. Paul, Minn. Watering-tank and heater. No. 1,330,723; Feb. 10; v. 271; p. 289.
Scherbius Arthur, Berlin, Germany. Direct-current machine. No. 1,352,920; Sept. 14; v. 278; p. 271.
Scherbner, Paul H. E., New York, N. Y. Grating. No. 1,346,426; July 13; v. 276; p. 278.
Scherer, Albert G., assignor to The Excelsior Steel Furnace Company, Chicago, Ill. Combined hot-air and cold-air register. No. 1,329,802; Feb. 3; v. 271; p. 85.
Scherer, Albert G., assignor to The Excelsior Steel Furnace Company, Chicago, Ill. Combined hot-air and cold-air register. No. 1,329,803; Feb. 3; v. 271; p. 85.
Scherer, Albert G., assignor to The Excelsior Steel Furnace Company, Chicago, Ill. Combined hot-air and cold-air register. No. 1,329,804; Feb. 3; v. 271; p. 86.
Scherer, Gilbert M., New York, N. Y. Phonograph. No. 1,331,788; Feb. 24; v. 271; p. 578.
Scherer, Jacob. (See Blain, G. A., and Scherer.)
Scherf, Wenzel J., Manitowoc, Wis. Fumigating-container. No. 1,351,263; Aug. 31; v. 277; p. 843.
Schermerhorn, George E., assignor to Chipman Knitting Mills, Easton, Pa. Manufacture of mercerized products. No. 1,363,358; Dec. 28; v. 281; p. 607.
Schermuly, Augustus W. L., Sutton, England. Coupling device. No. 1,362,512; Dec. 14; v. 281; p. 351.
Scheuch, William A., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric-resistance alloy. No. 1,337,276; Apr. 20; v. 273; p. 433.
Scheuer, William, New York, N. Y. Tobacco-pouch. No. 1,361,908; Dec. 14; v. 281; p. 232.
Scheurer, Robert C., West Hoboken, and H. A. Lathrop, Union Hill, N. J. Pedal-operated drum-beater and cymbal-sounder. No. 1,360,031; Nov. 23; v. 280; p. 705.
Schey, Max, Brooklyn, N. Y. Spit. No. 1,359,749; Nov. 23; v. 280; p. 649.
Scheyer, Emanuel. (See Bersin, A., and Scheyer.)
Schick, George A., assignor, by mesne assignments, to Adwear Process Sole Leather Machine Co., Philadelphia, Pa. Thread-measuring device. No. 1,329,933; Feb. 3; v. 271; p. 110.
Schick, Murray, Salt Lake City, Utah. Attachment for automobile and other wheels. No. 1,332,273; Mar. 2; v. 272; p. 18.
Schickluna, Joseph J., Buffalo, N. Y. Protective casing for electric meters. No. 1,337,163; Apr. 13; v. 273; p. 336.
Schiefer, Andrew, Cleveland, Ohio. Temperature-signaling device. No. 1,357,302; Nov. 2; v. 280; p. 20.
Schiek, Louis and W., Chicago, Ill. Bucket. No. 1,328,458; Jan. 20; v. 270; p. 394.
Schiek, William. (See Schiek, Louis and W., assignors.)
Schieman, Paul W., Rockville Center, N. Y., assignor to The A. Dewes Company, New York, N. Y. Jack. No. 1,329,098; Jan. 27; v. 270; p. 543.
Schierding, William, Spokane, Wash. Automobile-signal. No. 1,336,588; Apr. 13; v. 273; p. 226.
Schiff, Julian N., New York, N. Y. Multiplex-sheave drum. No. 1,340,297; May 18; v. 274; p. 442.
Schiff, Robert. (See Meyer, L., and Schiff.)
Schiffl, Charles, Montclair, N. J. Spring-motor. No. 1,328,402; Jan. 20; v. 270; p. 384.
Schiffner, Estella and J., Lafayette, Colo. Bicycle-gearing. No. 1,360,032; Nov. 23; v. 280; p. 705.
Schiffner, Joseph. (See Schiffner, Estella and J.)
Schild, Hermann E., assignor of one-half to S. R. Smythe Company, Inc., Pittsburgh, Pa. Reversing-valve. No. 1,331,585; Feb. 24; v. 271; p. 540.
Schildwachter, Valentine, Peoria, Ill. Traction-lug for vehicles. No. 1,341,079; May 25; v. 274; p. 662.
Schildwachter, Valentine, Peoria, Ill. Door opening and closing device. No. 1,354,135; Sept. 28; v. 278; p. 616.
Schill, Fred J., *et al.* (See Rasch, Louis, assignor.)
Schilla, Adolph W., Duluth, Minn. Galley-gage. No. 1,352,478; Sept. 14; v. 278; p. 182.
Schillberg, Melker W., Stratford township, Fairfield county, Conn. Tool-holder. No. 1,342,600; June 8; v. 275; p. 246.
Schilling, Adam P., and D. J. Hassett, Philadelphia, Pa. Radius-cutter for metals. No. 1,354,848; Oct. 5; v. 279; p. 80.
Schilling, Charles F., Lacombe, Alberta, Canada. Grate. No. 1,359,111; Nov. 16; v. 280; p. 478.
Schilling, Frank D., Emington, Ill. Belt-fastener. No. 1,348,747; Aug. 3; v. 277; p. 118.
Schilling, Frederick, Sr., Seattle, Wash. Folding tent. No. 1,345,108; June 29; v. 275; p. 930.
Schilling, Frederick W., Louisville, Ohio. Bottle-closure. No. 1,328,205; Jan. 13; v. 270; p. 310.
Schilling, Frederick W., Louisville, Ohio. Surgical splint. No. 1,328,598; Jan. 20; v. 270; p. 421.
Schilling, Louis F., Salem, Ohio. Collapsible bed. No. 1,354,343; Sept. 28; v. 278; p. 658.
Schimmel, David E., Brooklyn, N. Y. Shade-roller. No. 1,361,778; Dec. 7; v. 281; p. 159.
Schimmel, Fridolin, Faribault, Minn. Rock-rack. No. 1,336,981; Apr. 13; v. 273; p. 302.
Schimmel, Gerard W., The Hague, Netherlands. Flower or plant holder. No. 1,357,732; Nov. 2; v. 280; p. 101.
Schindler, Benjamin, and J. G. Viertel, Freeport, assignors to S. G. V. Electric Co., Inc., New York, N. Y. Puff-iron. No. 1,361,623; Dec. 7; v. 281; p. 130.
Schindler, Conrad. (See Lehmann and Schindler.)
Schindler, Henry E., Sisseton, S. D. Corn and callus treating device. No. 1,347,557; July 27; v. 276; p. 617.
Schindler, Walter R., Long Beach, Calif. Plant-protecting cap. No. 1,340,631; May 18; v. 274; p. 506.
Schindler, Walter R., Long Beach, Calif. Plant-cap-applying device. No. 1,357,523; Nov. 2; v. 280; p. 61.
Schinke, E. C., and N. A. Sutherland, assignors to Typewriter Calculating Attachment Company, St. Louis, Mo. Calculating-machine. No. 1,358,114; Nov. 9; v. 280; p. 236.
Schinkez, Albert, assignor to Keller Pneumatic Tool Company, Grand Haven, Mich. Percussion-tool. No. 1,346,341; July 13; v. 276; p. 262.
Schirm, Erik. (See Moest, M., and Schirm.)
Schirra, Julius, Pittsburgh, Pa. Headlight-dimmer. No. 1,354,695; Oct. 5; v. 279; p. 50.
Schirra, Julius, assignor to Brown Specialties Company, Pittsburgh, Pa. Screw-thread protector. No. 1,349,789; Aug. 17; v. 277; p. 449.
Schissel, Henry S., Philadelphia, Pa. Self-ejecting record-cabinet. No. 1,339,291; May 4; v. 274; p. 118.
Schivins, Charles, Millvale, Pa. Fencepost. No. 1,353,073; Sept. 14; v. 278; p. 301.
Schlaich, Herman, Brooklyn, N. Y. External ignition device for internal-combustion engines. No. 1,341,619; May 25; v. 274; p. 766.
Schlappi, John F., Sioux City, Iowa. Emulsifying-machine. No. 1,353,425; Sept. 21; v. 278; p. 429.
Schlatter, Gustav, Steinach, Switzerland, assignor to Firma Adolphe Saurer, Arbon, Switzerland. Motor-brake. No. 1,331,787; Feb. 24; v. 271; p. 578.
Schlatter, Gustav, Steinach, assignor to Firma Adolphe Saurer, Arbon, Switzerland. Tower-wagon. No. 1,337,487; Apr. 20; v. 273; p. 472.
Schlatter, Gustav, Steinach, and G. Segin, Arbon, Switzerland, assignors to Firma Adolph Saurer, Arbon, Switzerland. Regulating device for watering-carts. No. 1,349,440; Aug. 10; v. 277; p. 307.
Schlegel, George R., New Berlinville, Pa. Milk-bottle holder. No. 1,353,498; Sept. 21; v. 278; p. 443.
Schlegel, Mathew, Portland, Oreg. Folding chair. No. 1,342,650; June 8; v. 275; p. 255.
Schleicher, Henry M. (See Hayward, C. R., Stillman, and Schleicher.)
Schleicher, Henry M. (See Thum, W., Mulligan, and Schleicher.)
Schleicher, John C., Mount Vernon, N. Y. Demountable tire-carrying rim. No. 1,363,277; Dec. 28; v. 281; p. 592.
Schleicher, William A., Cleveland, Ohio. Blanket-fastener. No. 1,328,206; Jan. 13; v. 270; p. 310.
Schleicher, William A., Cleveland, Ohio. Buckle. No 1,358,991; Nov. 16; v. 280; p. 456.
Schleier, George R., St. Louis, Mo. Briquet-machine. No. 1,363,536; Dec. 28; v. 281; p. 642.
Schlemmer, George, New York, N. Y. Indexed memorandum-pad. No. 1,338,331; Apr. 27; v. 273; p. 702.
Schlepp, Louis, Brooklyn, N. Y. Electric-candle stand. No. 1,331,385; Feb. 17; v. 271; p. 481.
Schlerf, Ernest. (See Schram, Oscar H., assignor.)
Schlesinger, Henry, assignor of three-fourths to W. J. Jaeger, New York, N. Y. Safety-razor. No. 1,358,115; Nov. 9; v. 280; p. 237.
Schlesinger, M., Inc. (See Schlesinger, Morris, assignor.)
Schlesinger, Morris, assignor to M. Schlesinger, Inc., New York, N. Y. Bedstead corner-fastening. No. 1,337,799; Apr. 20; v. 273; p. 531.

Alphabetical list of patentees—Continued.

Schlesinger, Samuel, Jr. (See Killam, B. F., and Schlesinger.)

Schlesinger, William A., Denver, Colo., assignor, by mesne assignments, to The Cold Light Manufacturing Company Inc. Luminous indicating device and making same. No. 1,342,767; June 8; v. 275; p. 279.

Schley, Frederick L., Brooklyn, N. Y. Furniture for forming paper-box dies and for use in type compositions. No. 1,344,657; June 29; v. 275; p. 844.

Schlichten, George W., San Diego, Calif. Bearing apparatus. No. 1,361,187; Dec. 7; v. 281; p. 41.

Schlick, Erva A. (See Niles, Harry F., assignor.)

Schlicker, Herman C., Milwaukee, Wis. Drink-mixing device. No. 1,344,565; June 22; v. 275; p. 761.

Schlieder, Augustus E., assignor to Schlieder Manufacturing Co., Detroit, Mich. Machine for trimming valves. No. 1,346,259; July 13; v. 276; p. 246.

Schlieder Manufacturing Co. (See Schlieder, Augustus E., assignor.)

Schlingloff, William H., Jersey City, N. J. Phonograph-record holder. No. 1,336,382; Apr. 6; v. 273; p. 128.

Schlink, Frederick J., Washington, D. C. Method and machine for performing integrations. No. 1,333,637; Mar. 16; v. 272; p. 389.

Schlinkmeier, Christian H. (See Crippen and Schlinkmeier.)

Schloerb, Arthur H., New York, N. Y. Spool. No. 1,350,979; Aug. 24; v. 277; p. 725.

Schloss, Meyer W., New York, N. Y., assignor to Treo Company, Inc. Brassière. No. 1,327,408; Jan. 6; v. 270; p. 98.

Schloss, Meyer W., assignor to Trio Company, Inc., New York, N. Y. Bath-rubber. No. 1,357,006; Oct. 26; v. 279; p. 642.

Schloss, Meyer W., assignor to Treo Company, Inc., New York, N. Y. Elastic fabric. No. 1,359,112; Nov. 16; v. 280; p. 478.

Schlote, Guido F., assignor to Jiffy Automatic Wrench Corporation, Independence, Mo. Wrench. No. 1,354,782; Oct. 5; v. 279; p. 67.

Schlner, William M., Orange, N. J. Interchangeable vehicle. No. 1,327,883; Jan. 13; v. 270; p. 249.

Schlueter, Adolph, Oakland, Calif. Display-stand and coin-holder. No. 1,349,786; Aug. 17; v. 277; p. 448.

Schlueter, Henry W., Los Angeles, Calif. Tunnel construction. No. 1,353,274; Sept. 21; v. 278; p. 899.

Schlueter, John H., Cincinnati, Ohio. Vessel. No. 1,336,866; Apr. 13; v. 273; p. 280.

Schlundt, Christian H., Indianapolis, Ind. Interchangeable steam chest and valve. No. 1,349,787; Aug. 17; v. 277; p. 448

Schlunke, Anna J., Fargo, N. D. Gravity grain-separator. No. 1,353,856; Sept. 28; v. 278; p. 559.

Schlüns, Carl, Mohlis, Thuringia, Germany. Typewriting-machine. No. 1,345,510; July 6; v. 276; p. 36.

Schlup, Samuel, Cambridge, Mass. Advertising device. No. 1,332,274; Mar. 2; v. 272; p. 19.

Schmalkuche, William F., *et al.* (See Landa, Louis F., assignor.)

Schmalkuche, William F., Jr., *et al.* (See Landa, Louis F., assignor.)

Schmandt, Jacob E., Eddyville, Oreg. Bag supporting and clamping mechanism. No. 1,346,260; July 13; v. 276; p. 246.

Schmandt, Jacob E., Harrington, Wash. Bag-sewing mechanism. No. 1,351,134; Aug. 31; v. 277; p. 817.

Schmeing, Bernard B., Quincy, Ill. Watch-clasp. No. 1,356,018; Oct. 19; v. 279; p. 401.

Schmelzer, Bruno, Jersey City, N. J. Propeller. No. 1,331,586; Feb. 24; v. 271; p. 540.

Schmelzer, Charles F., Flint, Mich. Milling-machine attachment. No. 1,340,741; May 18; v. 274; p. 526.

Schmertz, Louis R., Jeannette, Pa. Tool for handling and manipulating vehicle tires and wheels. No. 1,345,889; July 6; v. 276; p. 110.

Schmick, Henry J., Lock Haven, Pa. Gear-cutting machine. No. 1,345,028; June 29; v. 275; p. 914.

Schmid, Christian, Philadelphia, Pa. Rust-preventing composition. No. 1,335,757; Apr. 6; v. 273; p. 10.

Schmid, Fred J., Philadelphia, assignor to W. M. Scott, Tredyffrin township, Pa. Shock-proof circuit-breaker. No. 1,355,511; Oct. 12; v. 279; p. 262.

Schmid, Gottlob F. and K. O., Indianapolis, Ind. Turbine gas-engine. No. 1,340,563; May 18; v. 274; p. 492.

Schmid, Karl O. (See Schmid, Gottlob F. and K. O.)

Schmid, William. (See Shakespeare and Schmid.)

Schmid, William, Kalamazoo, Mich. Fishline-reel. No. 1,363,817; Dec. 28; v. 281; p. 696.

Schmideck, Malvina, *et al.* (See Szlányi, William, assignor.)

Schmidgall, Frederick, Cincinnati, Ohio. Door latch and locking apparatus. No. 1,334,320; Mar. 23; v. 272; p. 564.

Schmidt, Albert, assignor to Champion Ignition Company, Flint, Mich. Electrically welding. No. 1,340,412; May 18; v. 274; p. 464.

Schmidt, Albert, assignor to Champion Ignition Company, Flint, Mich. Waterproof connection for spark-plugs. No. 1,350,470; Aug. 24; v. 277; p. 627.

Schmidt, Albert, assignor to Champion Ignition Company, Flint, Mich. Spark-plug. No. 1,352,089; Sept. 7; v. 278; p. 73.

Schmidt, Albert, assignor to Champion Ignition Company, Flint, Mich. Spark-plug. No. 1,352,148; Sept. 7; v. 278; p. 84.

Schmidt, Albert, assignor to Champion Ignition Company, Flint, Mich. Spark-plug. No. 1,352,149; Sept. 7; v. 278; p. 84.

Schmidt, Albert, assignor to Champion Ignition Company, Flint, Mich. Spark-plug. No. 1,355,274; Oct. 12; v. 279; p. 217.

Schmidt, Albert, assignor to Champion Ignition Company, Flint, Mich. Spark-plug. No. 1,358,116; Nov. 9; v. 280; p. 237.

Schmidt, Albert, assignor to Champion Ignition Company, Flint, Mich. Spark-plug. No. 1,358,882; Nov. 16; v. 280; p. 435.

Schmidt, Albert, assignor to Fisher Body Corporation, Detroit, Mich. Curtain-rod support. No. 1,352,479; Sept. 14; v. 278; p. 185.

Schmidt, Albert P., Snyder, Colo. Spring attachment for drilling-machines. No. 1,359,845; Nov. 23; v. 280; p. 667.

Schmidt, Alfred E., Newark, N. J. Chemical marker. No. 1,357,594; Nov. 2; v. 280; p. 74.

Schmidt, Benjamin F., Exeter, Calif. Safety device for firearms. No. 1,335,988; Apr. 6; v. 273; p. 54.

Schmidt, Carl H., Port Washington, Wis. Adjustable sprue. No. 1,361,188; Dec. 7; v. 281; p. 41.

Schmidt, Carl W., Piedmont, Calif., assignor to Ansco Company, Binghamton, N. Y. Means for marking and identifying negatives. No. 1,362,581; Dec. 14; v. 281; p. 364.

Schmidt, Charles D. (See Bower, Frank A., assignor.)

Schmidt, Charles D., Woodhaven, N. Y. Hook. No. 1,339,004; May 4; v. 274; p. 65.

Schmidt, Charles D., Woodhaven, N. Y. Hook for use with chains. No. 1,339,986; May 11; v. 274; p. 326.

Schmidt, Charles D., Jamaica, N. Y. Antiskid device for vehicle-wheels. No. 1,347,524; July 27; v. 276; p. 610.

Schmidt, Charles J. (See Simpson, E. G., Schmidt, and Carstens.)

Schmidt, Christ, Everett, Wash. Trough. No. 1,328,207; Jan. 13; v. 270; p. 310.

Schmidt, Christ, Monroe, Wash. Safety-crank. No. 1,344,521; June 22; v. 275; p. 752.

Schmidt, Edmund J., Chicago, Ill. Bed-guard. No. 1,333,039; Mar. 9; v. 272; p. 216.

Schmidt, Edward J., Louisville, Ky. Pressure-regulator. No. 1,343,160; June 8; v. 275; p. 357.

Schmidt, Edwin H., Inspiration, Ariz. Ball-mill. No. 1,351,793; Sept. 7; v. 278; p. 15.

Schmidt, F. L., Company. (See Novick, Abraham, assignor.)

Schmidt, Fred, assignor of one-fourth to E. L. Girard and one-fourth to M. A. Messlein, Chicago, Ill. Internal-combustion engine. No. 1,331,281; Feb. 17; v. 271; p. 461.

Schmidt, George C., Houston, Tex. Filter for oil and other lubricants. No. 1,360,149; Nov. 23; v. 280; p. 728.

Schmidt, Godfrey P. (See Robertson, Maxwell W., assignor.)

Schmidt, Hans E., Bad Oldesloe, Germany. Tooth-crown fastening. No. 1,354,696; Oct. 5; v. 279; p. 50.

Schmidt, Henry F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Packing. No. 1,329,548; Feb. 3; v. 271; p. 38

Schmidt, Henry F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Air-ejector. No. 1,329,549; Feb. 3; v. 271; p. 39.

Schmidt, Henry F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fluid-translating device. No. 1,333,346; Mar. 9; v. 272; p. 274.

Schmidt, Henry F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Co. Turbine. No. 1,335,031; Mar. 30; v. 272; p. 758.

Schmidt, Henry F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Ventilating apparatus. No. 1,345,638; July 6; v. 276; p. 60.

Schmidt, Henry F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fluid-translating device. No. 1,345,639; July 6; v. 276; p. 61.

Schmidt, Henry F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fluid-translating device. No. 1,345,640; July 6; v. 276; p. 61.

Schmidt, Henry F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Marine turbine. No. 1,345,641; July 6; v. 276; p. 61.

Schmidt, Henry F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Blade-mounting. No. 1,345,642; July 6; v. 276; p. 61.

Schmidt, Henry F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Marine propulsion. No. 1,358,469; Nov. 9; v. 280; p. 308.

Schmidt, Henry W., New York, N. Y. Aeronautical apparatus. No. 1,351,069; Aug. 31; v. 277; p. 805

Schmidt, Hermann, Suhl, Germany. Free-wheel coaster-brake with friction-clutch. No. 1,359,468; Nov. 16; v. 280; p. 548.

Schmidt, Hugo F., Chicago, Ill. Tractor. No. 1,356,743; Oct. 26; v. 279; p. 590.

Digitized by Google

Alphabetical list of patentees—Continued.

Schmidt, Hugo F., Chicago, Ill. Tractor. No. 1,356,744; Oct. 26; v. 279; p. 590.
Schmidt, Jacob J., Ogema, Saskatchewan, Canada. Disk-sharpener. No. 1,339,043; May 4; v. 274; p. 73.
Schmidt, Jesse, Tracy, Calif. Tire-tread puller. No. 1,354,849; Oct. 5; v. 279; p. 80.
Schmidt, John, assignor, by mesne assignments, to Howe Rubber Corporation, New Brunswick, N. J. Bead-forming ring for molding pneumatic tires. No. 1,350,117; Aug. 17; v. 277; p. 511.
Schmidt, John, Jr., Philadelphia, Pa. Can-filling machine. No. 1,340,185; May 18; v. 274; p. 421.
Schmidt, John C., Chicago, Ill. Door-checks. No. 1,339,479; May 11; v. 274; p. 230.
Schmidt, John C., St. Louis, Mo. Curtain-hook. No. 1,361,624; Dec. 7; v. 281; p. 130.
Schmidt, John E., and C. E. McArthur, Chicago, Ill. Rod-cutter. No. 1,336,589; Apr. 13; v. 273; p. 227.
Schmidt, Karl, Neuruppin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Chemical fire-extinguisher. No. 1,342,768; June 8; v. 275; p. 279.
Schmidt, Lawrence S., Pittsburgh, Pa. Pulverized-fuel feeder. No. 1,342,135; June 1; v. 275; p. 103.
Schmidt, Louis A., assignor to R. Hoe and Co., New York, N. Y. Inking mechanism. No. 1,348,900; Aug. 10; v. 277; p. 201.
Schmidt, Ludwig, Munich, Germany. Preparation of pyrocatechin aldehyde. No. 1,326,973; Jan. 6; v. 270; p. 18.
Schmidt, Oscar. (See Carlucci, Rocco T., assignor.)
Schmidt, Oscar. (See Elsinger, F. W., and Schmidt.)
Schmidt, Oscar, Inc. (See Haberman, Charles, assignor.)
Schmidt, Otto, Ludwigshafen-on-the-Rhine, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Soluble condensation product and making it. No. 1,330,759; Apr. 13; v. 273; p. 260.
Schmidt, Valdemar, Los Angeles, Calif. Cutter for excavators. No. 1,336,657; Apr. 13; v. 273; p. 289.
Schmidt, Valdemar, Los Angeles, Calif. Road-maker, excavator, and grader. No. 1,336,658; Apr. 13; v. 273; p. 240.
Schmidt, Walter A., assignor to International Precipitation Company, Los Angeles, Calif. Classifying finely-divided material. No. 1,335,758; Apr. 6; v. 273; p. 10.
Schmidt, Walter A., assignor to International Precipitation Company, Los Angeles, Calif. Separating suspended particles from gases. No. 1,339,480; May 11; v. 274; p. 230.
Schmidt, Walter A., Los Angeles, Calif., and L. Bradley, East Orange, N. J., assignors to Research Corporation, New York, N. Y. Apparatus and method for rectifying high-tension alternating current. No. 1,340,502; May 18; v. 274; p. 481.
Schmidt, Walter A., assignor to International Precipitation Company, Los Angeles, Calif. Means for separating suspended matter from gases. No. 1,343,285; June 15; v. 275; p. 444.
Schmidt, Walter A., assignor to International Precipitation Company, Los Angeles, Calif. Apparatus for rectifying high-tension alternating currents. No. 1,358,992; Nov. 16; v. 280; p. 456.
Schmidt, Walter A., Los Angeles, Calif., and L. Bradley, East Orange, N. J., assignors to Research Corporation, New York, N. Y. Apparatus for electrical treatment of gases. No. 1,329,859; Feb. 3; v. 271; p. 96.
Schmidt, Walter A., and G. C. Roberts, assignors to International Precipitation Company, Los Angeles, Calif. Apparatus for separating suspended particles from gases. No. 1,343,482; June 15; v. 275; p. 482.
Schmidt, Wilhelm, Monroe, Wash. Beet-puller. No. 1,340,796; May 18; v. 274; p. 536.
Schmidt, Wilhelm, Cassel-Wilhelmshöhe, Germany, assignor, by mesne assignments, to Locomotive Superheater Company. Means for cooling the pistons of internal-combustion engines. No. 1,344,090; June 22; v. 275; p. 667.
Schmidt, William C., Richmond, Va. Indicating-bottle. No. 1,326,974; Jan. 6; v. 270; p. 18.
Schmidt, William F., Freeburg, Ill. Shot-firing device. No. 1,351,794; Sept. 7; v. 278; p. 15.
Schmiederer, Joseph, St. Louis, Mo. Loading and unloading device. No. 1,342,826; June 8; v. 275; p. 291.
Schmitt, Carl J., and K. R. Schundler, Brooklyn, N. Y. Knockdown doll-house. No. 1,333,455; Mar. 9; v. 272; p. 294.
Schmitt, Eugene E., St. Louis, Mo. Dumping-wagon. No. 1,358,675; Nov. 9; v. 280; p. 349.
Schmitt, Jacob, Regent, N. D. Automatic railway-gate. No. 1,356,091; Oct. 19; v. 279; p. 416.
Schmitt, John A. (See Eklundh, J. G. G., Oden, and Schmitt.)
Schmitt, Nicholas, Brooklyn, N. Y. Gas-stove. No. 1,337,413; Apr. 20; v. 273; p. 458.
Schmitt, Otto A., Baltimore, Md. Machine for making box-blanks. No. 1,355,430; Oct. 12; v. 279; p. 246.
Schmitte, Fred, Clayton, N. Y. Shingle. No. 1,343,792; June 15; v. 275; p. 544.
Schmitz, Charles A. (See Bowman, Edwin L., assignor.)
Schmitz, Charles A., *et al.* (See Buckley, John J., assignor.)
Schmitz, Emil F. (See Post, E. A., and Schmitz.)
Schmitz, Richard, Chicago, Ill. Clutch. No. 1,344,597; June 22; v. 275; p. 767.
Schmitz, Richard, Chicago, Ill. Brake. No. 1,344,598; June 22; v. 275; p. 768.
Schmitz, Richard, Chicago, Ill. Clutch. No. 1,351,135; Aug. 31; v. 277; p. 818.
Schmolinski, Adolph O., St. Louis, Mo. Piston-ring. No. 1,363,278; Dec. 28; v. 281; p. 592.
Schmücking, August, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Barrel-recoil gun. No. 1,363,925; Dec. 28; v. 281; p. 717.
Schmutte, Ernest A., White Bluffs, Tenn. Blade for agricultural implement. No. 1,346,261; July 13; v. 276; p. 246.
Schnabel, Fritz W., Chicago, Ill. Attachment for ladders. No. 1,351,795; Sept. 7; v. 278; p. 15.
Schneck, George, Oil City, Pa. Croze. No. 1,358,585; Nov. 9; v. 280; p. 330.
Schneeweiss, William T., St. Louis, Mo. Device for removing slip-covers. No. 1,340,413; May 18; v. 274; p. 464.
Schneible, Frank, New York, N. Y. Tire. No. 1,334,970; Mar. 30; v. 272; p. 746.
Schneible, Joseph, Chicago, Ill. Dealcoholized fermented beverage. No. 1,348,587; June 15; v. 275; p. 503.
Schloch, Frank J., Greensboro, N. C. Window-screen. No. 1,340,797; May 18; v. 274; p. 536.
Schneider, Adolf J., Brooklyn, N. Y. Shoe. No. 1,345,407; July 6; v. 276; p. 16.
Schneider, Arnold A., Detroit, Mich. Motor-vehicle. No. 1,358,252; Nov. 9; v. 280; p. 263.
Schneider, August H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Conduit outlet-box. No. 1,327,409; Jan. 6; v. 270; p. 98.
Schneider, Carl, Watertown, N. Y. Color-solution-mixing tank. No. 1,354,850; Oct. 5; v. 279; p. 80.
Schneider, Charles E. R., New York, N. Y. Apparatus for showing pictures in relief. (Reissue.) No. 14,080; Nov. 9; v. 280; p. 353.
Schneider, Charles O., assignor to The Patent File and Tool Company Limited, Wimbledon, London, England. File. No. 1,345,890; July 6; v. 276; p. 111.
Schneider & Cie. (See Schneider, Eugène, assignor.)
Schneider, Eberhard, deceased, New York, N. Y.; S. Schneider, administratrix. Chain. No. 1,327,925; Jan. 13; v. 270; p. 257.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Apparatus for shifting trail gun-carriages for the purpose of training the guns. No. 1,326,976; Jan. 6; v. 270; p. 18.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Mechanism for disengaging and engaging the main governors in steam hoisting-engines. No. 1,327,633; Jan. 13; v. 270; p. 202.
Schneider, Eugene, assignor to Schneider & Cie., Paris, France. Gun-carriage with endless tracks. No. 1,328,849; Jan. 27; v. 270; p. 496.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Construction of bogies. No. 1,331,128; Feb. 17; v. 271; p. 434.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Hydraulic-joint packing. No. 1,331,216; Feb. 17; v. 271; p. 450.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Wheeled gun-carriage. No. 1,332,762; Mar. 2; v. 272; p. 112.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Apparatus for loading guns. No. 1,332,763; Mar. 2; v. 272; p. 113.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Combined apparatus comprising a recoil-brake, recuperator, and running-out moderator for guns. No. 1,333,280; Mar. 9; v. 272; p. 29.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Connecting mechanism between gun-carriages and endless-track trucks. No. 1,333,281; Mar. 9; v. 272; p. 261.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Apparatus for the automatic regulation of the hydraulic brakes of guns. No. 1,333,282; Mar. 9; v. 272; p. 261.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Hydraulic brake for guns. No. 1,333,283; Mar. 9; v. 272; p. 261.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Apparatus for aiming guns. No. 1,334,680; Mar. 23; v. 272; p. 631.
Schneider, Eugène, Le Creuzot, assignor to Schneider & Cie., Paris, France. Disappearing gun-carriage for use on submarines and similar vessels. No. 1,334,800; Mar. 23; v. 272; p. 654.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Apparatus for preventing the entrance of enemy projectiles into the muzzles of guns during the loading operations. No. 1,334,801; Mar. 23; v. 272; p. 654.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Gun-carriage trail for enabling the guns to fire at high angles of elevation. No. 1,335,462; Mar. 30; v. 272; p. 838.

Digitized by Google

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Apparatus for varying the recoil of guns. No. 1,335,463; Mar. 30; v. 272; p. 838.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Road wheeled unit for artillery and other purposes. No. 1,335,759; Apr. 6; v. 273; p. 11.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Safety mechanism for use with gun breech-blocks comprising removable firing-tube holders. No. 1,336,093; Apr. 6; v. 273; p. 74.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Aiming apparatus for guns. No. 1,336,094; Apr. 6; v. 273; p. 74.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Single-trail gun-carriage. No. 1,336,095; Apr. 6; v. 273; p. 74.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Safety mechanism for use with gun breech-blocks comprising removable firing-tube holders. No. 1,336,096; Apr. 6; v. 273; p. 74.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Gun-carriage frame. No. 1,336,926; Apr. 13; v. 273; p. 292.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Apparatus for the application of hydraulic pressure to the interior of a tube being shaped by the self-hooping process. No. 1,338,871; May 4; v. 274; p. 41.

Schneider, Eugène, assignor to Schneider & Cie, Paris, France. Apparatus for self-hooping tubes. No. 1,338,872; May 4; v. 274; p. 41.

Schneider, Eugène, Le Creuzot, assignor to Schneider & Cie., Paris, France. Removable bogie for trailers. No. 1,340,414; May 18; v. 274; p. 464.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Gun-supporting platform. No. 1,340,415; May 18; v. 274; p. 465.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Removable bogie for trailers, gun-carriages, and other apparatus. No. 1,340,416; May 18; v. 274; p. 465.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Removable bogie for trailers, gun-carriages, and other apparatus. No. 1,340,417; May 18; v. 274; p. 465.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Removable bogie for trailers, gun-carriages, and other apparatus. No. 1,340,418; May 18; v. 274; p. 465.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Apparatus for training guns mounted on wheeled gun-carriages. No. 1,341,385; May 25; v. 274; p. 721.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Apparatus for training guns mounted on wheeled gun-carriages. No. 1,341,386; May 25; v. 274; p. 721.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Cylinder for internal-combustion engines. No. 1,343,161; June 8; v. 275; p. 357.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Apparatus for setting time-fuses. No. 1,343,588; June 15; v. 275; p. 503.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Removable tire for the wheels of gun-carriages and other vehicles; No. 1,343,936; June 22; v. 275; p. 638.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Transport apparatus for demounting and remounting gun-barrels. No. 1,345,891; July 6; v. 276; p. 111.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Transport apparatus for demounting and remounting gun-barrels. No. 1,345,892; July 6; v. 276; p. 111

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Brake for guns. No. 1,346,560; July 13; v. 276; p. 305.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Gun for accompanying attacking troops. No. 1,346,561; July 13; v. 276; p. 306.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Gas for accompanying attacking troops. No. 1,346,562; July 13; v. 276; p. 306.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Projectile for bomb-throwers. No. 1,347,125; July 20; v. 276; p. 475.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Elastic suspension for wheeled gun-carriages No. 1,347,916; July 27; v. 276; p. 689.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Carriage of large-caliber guns firing from railway-tracks. No. 1,349,533; Aug. 10; v. 277; p. 326.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Multiple-disk brake. No. 1,351,006; Aug. 24; v. 277; p. 730.

Schneider, Eugène, assignor to Schneider & Cie, Paris, France. Recorder for fluid-pressure press. No. 1,352,150; Sept. 7; v. 278; p. 84.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Apparatus for repeating automatically on a railway-locomotive track-signals provided for the protection of moving trains. No. 1,352,389; Sept. 7; v. 278; p. 129.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Fuse for aviation-bombs. No. 1,352,542; Sept. 14; v. 278; p. 195.

Schneider, Eugène, assignor to Schenider & Cie., Paris, France. Percussion-fuse for projectiles. No. 1,352,543; Sept. 14; v. 278; p. 195.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Percussion-fuse for projectiles. No. 1,352,544; Sept. 14; v. 278; p. 195.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Power-barring apparatus. No. 1,353,275; Sept. 21; v. 278; p. 399.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Process and apparatus for ascertaining the hardness of metal parts. No. 1,354,216; Sept. 28; v. 278; p. 632.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Apparatus for ascertaining the hardness of metal parts. No. 1,354,217; Sept. 28; v. 278; p. 632.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Process and apparatus for ascertaining the hardness of metal parts. No. 1,354,218; Sept. 28; v. 278; p. 632.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Sighting apparatus. No. 1,354,851; Oct. 5; v. 279; p 81.

Schneider, Eugène, Paris, France, assignor to Schneider & Cie. Apparatus for lubricating the driving parts of engines. No. 1,354,852; Oct. 5; v. 279; p. 81.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Gun mounted on wheeled carriages. No. 1,358,656; Nov. 9; v. 280; p. 345.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Gun mounted on wheeled carriages. No. 1,358,657; Nov. 9; v. 280; p. 345.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Gun mounted on wheeled carriages. No. 1,358,658; Nov. 9; v. 280; p. 345.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Aiming apparatus for guns. No. 1,361,779; Dec. 7; v. 281; p. 159.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Sighting device for guns. No. 1,361,780; Dec. 7; v. 281; p. 160.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Aiming apparatus for guns. No. 1,361,781; Dec. 7; v. 281; p. 160.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Apparatus for diminishing the recoil of guns. No. 1,363,058; Dec. 21; v. 281; p. 509.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Aiming apparatus for guns on armored cars and for other purposes. No. 1,363,359; Dec. 28; v. 281; p. 607.

Schneider, Ferdinand F., Westpoint, Nebr. Road-drag. No. 1,362,190; Dec. 14; v. 281; p. 288.

Schneider, Franz, Vancouver, British Columbia, Canada. Washing-machine. No. 1,362,148; Dec. 14; v. 281; p. 280.

Schneider, Frank, Brooklyn, N. Y. Bread-baking-pan cleaning and polishing device. No. 1,329,931; Feb. 3; v. 271; p. 110.

Schneider, George X., Blue Island, assignor to the Curtain Supply Company, Chicago, Ill. Seat structure. No. 1,336,097; Apr. 6; v. 273; p. 75.

Schneider, Herman T., Garner, Iowa. Cleaning device. No. 1,348,748; Aug. 3; v. 277; p. 119.

Schneider, Hugo, New York, N. Y. Toilet article. No. 1,339,673; May 11; v. 274; p. 267.

Schneider, Jacques, and F. Billon, Solothurn, Switzerland. High-tension distributer for internal-combustion engines. No. 1,337,966; Apr. 20; v. 273; p. 564.

Schneider, Jacques, Solothurn, E. Hürlimann, Zuchwil, and F. Billon, assignors to the Firm Scintilla, Solothurn, Switzerland. High-tension distributers for magneto-electric ignition-machines. No. 1,349,299; Aug. 10; v. 277; p. 280.

Schneider, Jean J. M. A. E., Paris, France. Shock-absorbing apparatus for landing-carriages of aeroplanes. No. 1,332,764; Mar. 2; v. 272; p. 113.

Schneider, Jean J. M. A. E., Paris, France. Construction of hinge for connecting the warping planes to the wings or fixed planes in aircraft. No. 1,342,353; June 1; v. 275; p. 144.

Schneider, John, Elizabeth, N. J. Insulator-clamp. No. 1,334,802; Mar. 23; v. 272; p. 655.

Schneider, John Elizabeth, N. J. Switch. No. 1,343,793; June 15; v. 275; p. 545.

Schneider, John E., Wenatchee, assignor to Seattle Asbestomine Co., Seattle, Wash. Grinding diatomaceous earth. No. 1,357,480; Nov. 2; v. 280; p. 52.

Schneider, John L., *et al.* (See Hemmer, Frederick L., assignor.)

Schneider, Joseph, Cincinnati, Ohio. Automobile tire-chain and holder. No. 1,346,469; July 13; v. 276; p. 287.

Digitized by Google

Schneider, Louis, Clinton, Mo. Sleeve construction. No. 1,338,098; Apr. 27; v. 273; p. 658.
Schneider, Louis, Clinton, Mo. Typewriter-carriage return. No. 1,363,619; Dec. 28; v. 281; p. 658.
Schneider, Louis J., assignor of one-half to E. W. Strauss, Milwaukee, Wis. Instantaneous electric water-heater. No. 1,362,356; Dec. 14; v. 281; p. 321.
Schneider, Michael J. N., Black River Falls, Wis. Railway-gate. No. 1,329,022; Jan. 27; v. 270; p. 529.
Schneider, Peter, Oswego, N. Y. Car-door lock. No. 1,342,465; June 8; v. 275; p. 219.
Schneider, Peter, Oswego, N. Y. Car-door hanger. No. 1,344,454; June 22; v. 275; p. 739.
Schneider, Philip, Chicago, Ill. Radiator. No. 1,356,562; Oct. 26; v. 279; p. 555.
Schneider, Ralph F., assignor to C. J. Tagliabue Manufacturing Co., Brooklyn, N. Y. Thermometer. No. 1,348,749; Aug. 3; v. 277; p. 119.
Schneider, Stanislawa, administratrix. (See Schneider, Eberhard.)
Schneider, Victor H., Aurora township, Florence county, Wis. Screwdriver. No. 1,345,708; July 6; v. 276; p. 75
Schnelder, William, Verdon, Nebr. Condiment-holder. No. 1,362,442; Dec. 14; v. 281; p. 337.
Schneler, Adolph A., College Point, N. Y. Support. No. 1,329,552; Feb. 3; v. 271; p. 39.
Schnekenburger, William, Detroit, Mich. Weather-strip. No. 1,352,545; Sept. 14; v. 278; p. 196.
Schnell, Julius L., Arlington, N. J. Feed-bar for fountain-pens. No. 1,357,083; Oct. 26; v. 279; p. 657.
Schnell, Lawrence J., Portland, Oreg. Lock-nut. No. 1,352,090; Sept. 7; v. 278; p. 73.
Schnell, Winfield V. (See Richmond, Everett B., assignor.)
Schneller, George A., Buffalo, N. Y. Reinforced beam for wing-panels of aeroplanes. No. 1,335,609; Mar. 30; v. 272; p. 866.
Schnepel, Carl G., Sioux City, Iowa. Sheet-metal receptacle. No. 1,361,350; Dec. 7; v. 281; p. 74..
Schnitzspahn, Oscar E., Buffalo, N. Y. Coin-counting apparatus. No. 1,347,179; July 20; v. 276; p. 485.
Schnuck, Carl F. (See Bowen, D. R., and Schnuck.)
Schnuck, Edward F., Greenburg, N. Y. Coffee-cutting. No. 1,341,200; May 25; v. 274; p. 685.
Schnurr, Charles A. B., Brooklyn, N. Y. Captive ball for golf-practice. No. 1,326,976; Jan. 6; v. 270; p. 18.
Schnurr, Georg, Philadelphia, Pa. Locomotive-scale. No. 1,338,593; Apr. 27; v. 273; p. 750.
Schnurrenberger, Emil, Paterson, N. J. Dyeing-machine. No. 1,350,740; Aug. 24; v. 277; p. 680.
Schoch, Walter E. (See Cramp, Joseph C., assignor.)
Schochenmaier, Jacob. (See Odenbach, Albert, assignor.)
Schoedinger, F. O. (See Morey, Worthie W., assignor.)
Schoelkopf, Christian P., St. Paul, Minn. Portable door and window fastener. No. 1,353,543; Sept. 21; v. 278; p. 452.
Schoen, Max, San Francisco, Calif. Toy gun. No. 1,337,967; Apr. 20; v. 273; p. 564.
Schoen, Michael, New York, N. Y. Arms and bust for stuffed dolls. No. 1,356,405; Oct. 19; v. 279; p. 478.
Schoenberg, Ralph A. (See Both, T. A. C., Trumbull, and Schoenberg.)
Schoenborn, Gustav C., assignor, by mesne assignments, to Manufacturers Machine Products Co., Detroit, Mich. Tool-holder. No. 1,341,934; June 1; v. 275; p. 63.
Schoenfeld, Albert G., Denver, Colo. Railway-spike. No. 1,330,906; Feb. 17; v. 271; p. 392.
Schoenfeld, Charles, Canton, Ohio. Lamp-support. No. 1,361,625; Dec. 7; v. 281; p. 130.
Schoenheit, Ernest, Avalon, Pa. Spiral roulette. No. 1,334,174; Mar. 16; v. 272; p. 490.
Schoenhofen, Peter, Brewing Company. (See Sippel, G. B., and Patitz, assignors.)
Schoenhut, A., Company, The. (See Schoenhut, William G., assignor.)
Schoenhut, William G., assignor to The A. Schoenhut Company, Philadelphia, Pa. Doll. No. 1,358,470; Nov. 9; v. 280; p. 308.
Schoenkerman, Bern S., Milwaukee, Wis. Tablet-press. No. 1,344,091; June 22; 275; p. 667.
Schoenknecht, Curt E. G., Newark, N. J. Hoisting apparatus. No. 1,361,909; Dec. 14; v. 281; p. 232.
Schoenky, August R. (See Zaleski, F., and Schoenky.)
Schoenky, August, R., Somerville, assignor to Reece Shoe Machinery Company, Boston, Mass. Stopping and starting mechanism. No. 1,352,226; Sept. 7; v. 278; p. 98.
Schoenle, Walter M. (See Benzinger, Albert, assignor.)
Schoenleber, John G. (See Bell, T. H., and Schoenleber.)
Schoenleber, John G. (See Bell, Thomas H., assignor.)
Schoenmehl, Charles B., and M. L. Martus, assignors to The Waterbury Battery Company, Waterbury, Conn. Primary battery. No. 1,360,589; Nov. 30; v. 280; p. 882.
Schoenwolf, Fred, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. No. 1,336,098; Apr. 6; v. 273; p. 75.
Schoepf, Theodore H., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system. No. 1,352,480; Sept. 14; v. 278; p. 183.
Schofield, Frederick C., assignor to Comas Cigarette Machine Company, Salem, Va. Cutting atttachment for cigarette-machines. No. 1,348,057; July 27; v. 276; p. 718.
Schofield, Frederick C., assignor, by direct and mesne assignments, to The Hillfield Body Company, Salem, Va. Dumping vehicle. No. 1,351,796; Sept. 7; v. 278; p. 15.
Schofield, George L., assignor, by mesne assignments, to Automotive Tractor Corporation of America, Kansas City, Mo. Autotractor. No. 1,356,473; Oct. 19; v. 279; p. 490.
Schofield, George L., assignor, by mesne assignments, to Automotive Tractor Corporation of America, Kansas City, Mo. Autotractor. No. 1,356,474; Oct. 19; v. 279; p. 491.
Schofield, George L., Kansas City, Mo. Automotive tractor. No. 1,356,475; Oct. 19; v. 279; p. 491.
Schofield, Lee. (See Stott, V. H., and Lee.)
Scholes, Daniel R., assignor to Aermotor Company, Chicago, Ill. Lubricating mechanism. No. 1,341,080; May 25; v. 274; p. 662.
Scholes, Edmond P., San Jose, assignor of one-fifth to A. Golden, one-fifth to J. Martin, one-fifth to C. Leavell, and one-fifth to W. H. Johnson, Santa Clara county, Calif. Railway-switch. No. 1,343,483; June 15; v. 275; p. 482.
Scholes, Peter, Hyde, England. Self-acting warp-tension-regulating motion for looms for weaving. No. 1,350,943; Aug. 24; v. 277; p. 718.
Scholes, Samuel R., Beaver, assignor to H. C. Fry Glass Company, Rochester, Pa. Obtaining combined potassium from minerals. No. 1,327,782; Jan. 13; v. 270; p. 230.
Scholes, Samuel R., Beaver, and R. F. Brenner, assignors to J. Howard Fry, Rochester, Pa. Extracting potassium from potash-bearing silicate minerals. No. 1,327,781; Jan. 13; v. 270; p. 230.
Scholes, William, Philadelphia, Pa. Twisting and winding twines. No. 1,363,279; Dec. 28; v. 281; p. 592.
Scholes, William, Philadelphia, Pa. Textile-fabric manufacture. No. 1,363,280; Dec. 28; v. 281; p. 593.
Scholl, Harry L., West Chester, Pa. Stock-rest. No. 1,329,550; Feb. 3; v. 271; p. 39.
Scholl, William M., Chicago, Ill. Instep-arch support. No. 1,359,113; Nov. 16; v. 280; p. 478.
Scholl, William M., Chicago, Ill. Arch-support. No. 1,362,191; Dec. 14; v. 281; p. 280.
Schollmeyer, Albert L., Killdeer, N. D. Fence-wire-carrying rig. No. 1,329,860; Feb. 3; v. 271; p. 97.
Scholter, Anthony J., Milwaukee, Wis. Belt-catch. No. 1,361,550; Dec. 7; v. 281; p. 116.
Scholz, Frank J., assignor of one-half to R. W. Scholz, Helena, Mont. Single-delivery match-box. No. 1,350,886; Aug. 24; v. 277; p. 707.
Scholz, Josef, Basin, Wyo. Ice-cutting machine. No. 1,330,907; Feb. 17; v. 271; p. 372.
Scholz, Raymond W. (See Scholz, Frank J., assignor.)
Scholz, Rudolph, Newark, N. J. Saddle attachment for motorcycles and the like. No. 1,337,025; Apr. 13; v. 273; p. 310.
Schön, Ludwig, assignor to Fried Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Arrangement for automatically regulating the voltage of dynamos. No. 1,352,839; Sept. 14; v. 278; p. 255.
Schonk, Edward P., Wilkes-Barre, Pa. Reamer. No. 1,328,208; Jan. 13; v. 270; p. 310.
Schooley, Edward A., assignor to The Eastern Railway Signal Company, Pittsburgh, Pa. Railway-torpedo. No. 1,359,924; Nov. 23; v. 280; p. 683.
Schoolfield, Lucille D., Danville, Va., assignor of one-fourth to W. L. Edmonston, Washington, D. C. Knitting-needle. No. 1,340,255; May 18; v. 274; p. 434.
Schooling, James A., Frankfort, Ind. Miner's lamp kit. No. 1,355,007; Oct. 5; v. 279; p. 111.
Schoonmaker, Arthur, Baton Rouge, La. Bed attachment. No. 1,342,354; June 1; v. 275; p. 144.
Schopbach, Charles H., assignor to International Corset Company, Aurora, Ill. Corset. No. 1,347,180; July 30; v. 276; p. 486.
Schopflocher, Siegfried, assignor of one-half to C. E. Carter, Montreal, Quebec, Canada. Window or the like for moving vehicles. No. 1,333,508; Mar. 9; v. 272; p. 304.
Schopper, Albert L., Eudora, Kans. Laced shoe. No. 1,340,503; May 18; v. 274; p. 481.
Schopper, Alois, New York, N. Y. Safety device for hatpins. No. 1,356,225; Oct. 19; v. 279; p. 443.
Schorr, Robert, assignor to Byron Jackson Iron Works, Inc., San Francisco, Calif. Bearing-protector for deep-well pumps and the like. No. 1,336,540; Apr. 13; v. 273; p. 218.
Schossow, Frederick A., Detroit, Mich. Controlling mechanism for flushing-valves. No. 1,353,804; Sept. 21; v. 278; p. 505.
Schott, Frederick, *et al.* (See Engel, William C., assignor.)
Schott, John H., assignor of one-fifth to J. G. Archibald, one-fifth to J. E. De Kalb, and one-fifth to M. M. Rinn, Boulder, Colo. Pulling-machine. No. 1,327,492; Jan. 6; v. 270; p. 114.

Digitized by Google

Schott, Rudolf F., assignor to California Barrel Company, San Francisco, Calif. Cover-fastener for shipping-pails. No. 1,358,253; Nov. 9; v. 280; p. 263.
Schou, Christian M. C., Copenhagen, Denmark. Labeling-machine. No. 1,338,793; May 4; v. 274; p. 27.
Schoute, Cornelis, De Bilt, near Utrecht; F. A. van Heyst, Soesterberg, and N. E. G. Meyer, Bosch en Duin, near Zeist, Netherlands. Apparatus for determining the position or the movement of a body or controlling the auxiliary devices dependent on said position or movement. No. 1,336,399; Apr. 6; v. 273; p. 131.
Schoute, Cornelis, De Bilt, near Utrecht, F. A. von Heyst, Soesterberg, and N. E. G. Meyer, Bosch en Duin, near Zeist, Netherlands. Apparatus for the determination of velocities in or of air or water. No. 1,345,556; July 6; v. 276; p. 45.
Schow, Martin C., Vananda, Mont. Antiskid-chain attachment. No. 1,354,624; Oct. 5; v. 279; p. 86.
Schrade, George, New York, N. Y. Attachable heel. No. 1,341,387; May 25; v. 274; p. 721.
Schrader, John R., assignor to Dieter Nut Company, New York, N. Y. Lock-nut. No. 1,347,124; July 20; v. 276; p. 475.
Schrader, Martin E., Oakland, Calif. Auxiliary air valve for carbureters. No. 1,347,795; July 27; v. 276; p. 665.
Schrader's, A., Son. (See Bowden, Junius A., assignor.)
Schrader's, A., Son. (See Hammond, William P., assignor.)
Schrader's, A., Son. (See Keynton, Howard, assignor.)
Schrader's, A., Son. (See Kraft, Henry P., assignor.)
Schrader's, A., Son. (See Myers, Eugene V., assignor.)
Schrader's, A., Son. (See Patton, Moses F., assignor.)
Schrader's, A., Son. (See Volckhausen, Julius, assignor.)
Schrader's, A., Son, Incorporated, *et al.* (See Rasch, Louis, assignor.)
Schrage, Hidde K., Stockholm, Sweden. Machinery for balancing unsymmetrical loads with polyphase distribution-nets or supply-mains. No. 1,354,074; Sept. 28; v. 278; p. 603.
Schrage, Louis F., Palatine, Ill. Corn-husker pin. No. 1,340,419; May 18; v. 274; p. 466.
Schram, Alexander L. (See Davidson, S., and Schram.)
Schram, Alexander L., Hillsboro, Ill. Jar. No. 1,353,277; Sept. 21; v. 278; p. 400.
Schram, Alexander L., Hillsboro, Ill., assignor, by mesne assignments, to Drey Automatic Glass Machine Company, St. Louis, Mo. Drop-feeding device for glass-machines. No. 1,353,276; Sept. 21; v. 278; p. 400.
Schram, Alexander L., Hillsboro, Ill., assignor to Schram Glass Mfg. Co., St. Louis, Mo. Fruit-jar. No. 1,353,278; Sept. 21; v. 278; p. 400.
Schram Glass Manufacturing Co. (See Drey, L. A., and Hiatt, assignors.)
Schram Glass Manufacturing Company. (See Davidson, S., and Schram.)
Schram Glass Manufacturing Company. (See Hiatt, James L., assignor.)
Schram Glass Mfg. Co. (See Schram, Alexander L., assignor.)
Schram, John W. and N. J., Flint, Mich. Circuit-closer for vehicle-signals. No. 1,335,610; Mar. 30; v. 272; p. 866.
Schram, Nicholas J. (See Schram, John W. and N. J.)
Schram, Oscar H., assignor of one-half to E. Schlerf, Oshkosh, Wis. Davenport. No. 1,344,825; June 29; v. 275; p. 877.
Schram, Oscar H., assignor of one-half to E. Schlerf, Oshkosh, Wis. Davenport. No. 1,344,928; June 29; v. 275; p. 896.
Schramm, Adolph F., assignor of one-half to S. H. Fisher, Columbus, Ohio. Automobile-seat. No. 1,332,957; Mar. 9; v. 272; p. 201.
Schramm, Richard, assignor to The National Marking Machine Co., Cincinnati, Ohio. Safety-pin. No. 1,331,948; Feb. 24; v. 271; p. 607.
Schranck, Edward V., and E. F. Kunkel, Milwaukee, Wis. Heat-storing attachment for radiator systems. No. 1,338,750; May 4; v. 274; p. 19.
Schrank, Christopher, Batesville, Ind. Portable display-holder for fertilizer and grain samples. No. 1,359,750; Nov. 23; v. 280; p. 649.
Schrantz, Samuel, St. Louis, Mo. Clasp. No. 1,338,702; May 4; v. 274; p. 10.
Schreiber, Edward A., assignor to Vapor Car Heating Company, Inc., Chicago, Ill. Water-heating device. No. 1,343,937; June 22; v. 275; p. 638.
Schreiber, Edward A., assignor to Vapor Car Heating Company, Chicago, Ill. Hose-coupling. No. 1,350,083; Aug. 17; v. 277; p. 505.
Schreiber, Edward A., assignor, by mesne assignments, to Vapor Car Heating Company, Inc., Chicago, Ill. Coupling for railway train pipes. No. 1,351,875; Sept. 7; v. 278; p. 32.
Schreiber, Francis B., Harvey, Ill. Oil-burner. No. 1,330,767; Feb. 10; v. 271; p. 297.
Schreiber, Philip J., Toledo, Ohio. Finger-ring. No. 1,333,284; Mar. 9; v. 272; p. 262.
Schreier, Herman. (See Downey, Richard F., assignor.)
Schreiner, Arthur W., Brooklyn, assignor to Standard Scientific Company, New York, N. Y. Resonator. No. 1,328,059; Jan. 13; v. 270; p. 282.
Schrenkeisen, Arthur, New York, N. Y. Globe. No. 1,335,923; Apr. 6; v. 273; p. 41.
Schrock, Joseph G., Mattoon, Ill. Bird-house. No. 1,358,119; Nov. 9; v. 280; p. 236.
Schroeder, Albert, Piqua, assignor of one-half to H. C. Rogers, Columbus, Ohio. Street-sweeping machine. No. 1,340,133; May 11; v. 274; p. 254.
Schroeder, Anthony, Cleveland, Ohio. Metal container. No. 1,344,455; June 22; v. 275; p. 739.
Schroeder, Anthony, Cleveland, Ohio. Metallic container. No. 1,344,456; June 22; v. 275; p. 740.
Schroeder, Anthony, Cleveland, Ohio. Bung for metal barrels and the like. No. 1,344,457; June 22; v. 275; p. 740.
Schroeder, Anthony, Cleveland, Ohio. Closure for metal containers. No. 1,355,918; Oct. 19; v. 279; p. 381.
Schroeder, Charles, Neillsville, Wis. Audible signaling device. No. 1,337,277; Apr. 20; v. 273; p. 433.
Schroeder, Charles, Neillsville, Wis. Spring-trap. No. 1,339,481; May 11; v. 274; p. 230.
Schroeder, Charles, Neillsville, Wis. Staple and nail puller. No. 1,355,275; Oct. 12; v. 279; p. 217.
Schroeder, Frank H., assignor of one-half to R. E. Edwards, Richmond, Ind. Kitchen-cabinet. No. 1,346,470; July 13; v. 276; p. 287.
Schroeder, Frederick W., London, England. Lock. No. 1,357,122; Oct. 26; v. 279; p. 665.
Schroeder, Giulio, Hale, England, assignor to Westinghouse Electric & Manufacturing Company. Ventilation of dynamo-electric machines. No. 1,335,129; Mar. 30; v. 272; p. 777.
Schroeder, Jesse L., Erie, N. D. Machine for cutting up potatoes for planting. No. 1,337,968; Apr. 20; v. 273; p. 564.
Schroeder, Jesse L., Erie, N. D. Machine for cutting seed-potatoes. No. 1,347,058; July 20; v. 276; p. 463.
Schroeder, John, Davenport, Iowa. Motor. No. 1,351,695; Aug. 31; v. 277; p. 929.
Schroepfer, Stanley. (See Bloom, J., and Schroepfer.)
Schroyer, Harry H., Chicago, Ill., assignor to Dunbar Manufacturing Company. Weather-guard. No. 1,335,395; Mar. 30; v. 272; p. 826.
Schryver, Fremont. (See Billings, W. T., and Schryver.)
Schub, Charles H., New York, N. Y. Clamp. No. 1,350,084; Aug. 17; v. 277; p. 505.
Schubert, Frank H., Philadelphia, Pa., assignor to Brown-Ferrier Company, Wilmington, Del. Evaporator and condenser. No. 1,361,910; Dec. 14; v. 281; p. 232.
Schubert, Hermann J., Hackensack, N. J. Merchandise measuring and filling mechanism. No. 1,360,324; Nov. 30; v. 280; p. 830.
Schubert, William W., Chicago, Ill. Timer. No. 1,340,121; May 11; v. 274; p. 352.
Schuch, Louis E., Cincinnati, Ohio. Steam-condenser and oil-separator for steam-driven vehicles. No. 1,349,007; Aug. 10; v. 277; p. 221.
Schuchart, Paul A. (See Brown, G. G., and Schuchart.)
Schueler, Charles. (See von Osten, Frederick, assignor.)
Schueler, Julian L., assignor, by mesne assignments, to Keystone Steel & Wire Company, Peoria, Ill. Alloy-coated iron or steel article and coating same. No. 1,357,907; Nov. 2; v. 280; p. 135.
Schuetz, Frank A. (See Hamm, W. S., and Schuetz.)
Schuldt, Will, Moville, Iowa. Drag-truck. No. 1,333,780; Mar. 16; v. 272; p. 416.
Schüller, Friedrich, Frankfort-on-the-Main, Germany. Lining for tanks. No. 1,355,360; Oct. 12; v. 279; p. 233.
Schuler, William A., New York, N. Y. Fastener. No. 1,348,666; Aug. 3; v. 277; p. 104.
Schullin Steel Company. (See Doerr, Harry E., assignor.)
Schulse, Herman E. (See Van Nostrand, C. H., and Schulse, assignors.)
Schulte, Louis, Pittsburgh, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Buffing-machine. No. 1,329,551; Feb. 3; v. 271; p. 39.
Schulte, Walter B., Madison, Wis., assignor to Burgess Battery Company. Dry cell. No. 1,342,001; June 1; v. 275; p. 76.
Schulthess, Jacob, Salt Lake City, Utah. Copy-guide. No. 1,353,279; Sept. 21; v. 278; p. 400.
Schultz, Alva L., Pocahontas, Iowa. Sash-hanger. No. 1,331,678; Feb. 24; v. 271; p. 557.
Schultz, Emil C., Streator, Ill. Emergency-tire. No. 1,355,785; Oct. 12; v. 279; p. 315.
Schultz, Fred C. (See Emerson, Ono B., assignor.)
Schultz, Frederick A., Hasbrouck Heights, N. J. Ear-drum protector. No. 1,355,276; Oct. 12; v. 279; p. 217.
Schultz, George H. (See Isphording, R. C., and Schultz.)
Schultz, Louis, *et al.* (See Silverman, Wulf, assignor.)
Schultze, August J., Galveston, Tex. Universal lock and latch. No. 1,352,762; Sept. 14; v. 278; p. 239.
Schultze, Charles, *et al.* (See Krickel, Louis H., assignor.)
Schulz, Carl F., Brooklyn, N. Y. Carbureter for gasolene-engines. (Reissue.) No. 14,880; June 8; v. 275; p. 363.
Schulz, Carl F., New York, N. Y. Carbureter. No. 1,356,661; Oct. 26; v. 279; p. 574.
Schulze, Charles, and L. H. Krickel, assignors of one-fifth to O. Schulze, Monroe La. Hairpin. No. 1,362,824; Dec. 21; v. 281; p. 464.

Digitized by Google

Schulz, Edward H., U. S. Army. Diaphragm blast-meter. No. 1,344,722; June 29; v. 275; p. 856.
Schulz, Gustav O., Revere, Mass. Vacuum-receptacle construction. No. 1,337,278; Apr. 20; v. 273; p. 483.
Schulz, Heinrich. (See Hintz, E., and Schulz.)
Schulz, Heinrich, assignor to Firm Cornelius Heyl, Worms, Germany. Drying varnished (patent) leather. No. 1,353,937; Sept. 28; v. 278; p. 575.
Schulz, M., Company. (See Gustafson, Adolph P., assignor.)
Schulze, Moritz, Newark, N. J. Ladder. No. 1,330,956; Feb. 17; v. 271; p. 402.
Schulze, Octave. (See Schulze, C., and Krickel, assignors.)
Schumacher, Charles F., Hillsboro, Ohio. Feeder. No. 1,336,320; Apr. 6; v. 273; p. 116.
Schumacher, Elmer L., Southbridge, Mass., assignor to American Optical Company. Ophthalmic mounting. No. 1,341,344; May 25; v. 274; p. 713.
Schumacher, Frank W., Shawano, Wis. Wire-stretcher attachment. No. 1,333,097; Mar. 9; v. 272; p. 227.
Schumacher, James B., Cincinnati, Ohio. Carbon-prevention device. No. 1,354,580; Oct. 5; v. 279; p. 26.
Schumacher, John, Los Angeles, Calif. Plaster-board. No. 1,333,579; Mar. 9; v. 272; p. 318.
Schumacher, John, Los Angeles, Calif. Machine for making plaster-board. No. 1,341,264; Aug. 31; v. 277; p. 843.
Schumacher, John, Los Angeles, Calif. Plaster-board and making same. No. 1,352,390; Sept. 7; v. 278; p. 119.
Schumacher, John, Los Angeles, Calif. Wall-tape. No. 1,357,350; Nov. 2; v. 280; p. 29.
Schumacher, John, Los Angeles, Calif. Trimming and subdividing plaster-board. No. 1,358,340; Nov. 9; v. 280; p. 281.
Schumacher, John, and J. E., Los Angeles, Calif. Plaster-board or the like. No. 1,327,446; Jan. 6; v. 270; p. 105.
Schumacher, John and J. E., Los Angeles, Calif. Apparatus for trimming plaster-board and the like. No. 1,329,634; Feb. 3; v. 271; p. 54.
Schumacher, Joseph E. (See Schumacher, John and J. E.)
Schumaker, Lorraine J., assignor to The American Pretzel Company, Philadelphia, Pa. Container. No. 1,342,069; June 1; v. 275; p. 89.
Schuman, Alexander C., Louisville, Ky. Water-closet. No. 1,333,638; Mar. 16; v. 272; p. 390.
Schuman, Alexander C., Louisville, Ky. Resilient wheel. No. 1,359,925; Nov. 23; v. 280; p. 683.
Schumann, Detlef K. H., Hamburg, Germany. Respirator. No. 1,353,857; Sept. 28; v. 278; p. 550.
Schumann, Frank J., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Workholder. No. 1,360,449; Nov. 30; v. 280; p. 855.
Schundler, Karl R. (See Schmitt, C. J., and Schundler.)
Schurch, Jacob, assignor to Imperial Electric Company, Holtville, Calif. Power-transmission system. No. 1,350,424; Aug. 24; v. 277; p. 618.
Schurr, Charles H., assignor to The Lees-Bradner Company, Cleveland, Ohio. Generating worm-wheels. No. 1,329,805; Feb. 3; v. 271; p. 86.
Schurr, Charles H., assignor to The Lees-Bradner Company, Cleveland, Ohio. Cutting-tool. No. 1,329,806; Feb. 3; v. 271; p. 86.
Schurr, Charles H., assignor to The Lees-Bradner Company, Cleveland, Ohio. Generating gear-teeth. No. 1,355,919; Oct. 19; v. 279; p. 381.
Schurr, Charles H., and E. J. Lees, assignors to The Lees-Bradner Co., Cleveland, Ohio. Thread-milling machine. No. 1,355,854; Oct. 19; v. 279; p. 369.
Schurr, Charles H., and E. J. Lees, assignors to The Lees-Bradner Company, Cleveland, Ohio. Swivel-head. No. 1,355,855; Oct. 19; v. 279; p. 369.
Schurr, Charles H., and E. J. Lees, assignors to The Lees-Bradner Company, Cleveland, Ohio. (Reissue.) Milling-machine. No. 14,976; Nov. 2; v. 280; p. 141.
Schurr, Henry, Philadelphia, Pa. Car-fender. No. 1,344,213; June 22; v. 275; p. 691.
Schurr, Wilhelm, Langnau-on-the-Albis, Switzerland. Athletic exerciser. No. 1,353,938; Sept. 28; v. 278; p. 575.
Schurs, John, Los Angeles, Calif. Gas-mixer. No. 1,357,351; Nov. 2; v. 280; p. 29.
Schussler, John H., assignor to Acme Printing Appliance Co., Chicago, Ill. Inking-roll truck for printing-presses. No. 1,342,355; June 1; v. 275; p. 145.
Schustarich, George, Cicero, Ill. Indicator-holder. No. 1,341,936; June 1; v. 275; p. 64.
Schuster, Francis X., Raber, Mich. Choke attachment for shotguns. No. 1,348,750; Aug. 3; v. 277; p. 119.
Schuster, George. (See Daniels, Frank A., and Schuster.)
Schuster, Karl R., Brooklyn, N. Y. Structural bar. No. 1,339,226; May 4; v. 274; p. 107.
Schuster, Lionel. (See Dings and Schuster.)
Schutt, Theodore H., assignor to The Russ Company, Cleveland, Ohio. Switch-operating mechanism. No. 1,341,764; June 1; v. 275; p. 30.
Schutte, August E., Northboro, Mass. Hydraulic concrete structure. No. 1,331,217; Feb. 17; v. 271; p. 450.
Schutte and Koerting Company. (See Zimmermann, Hans, assignor.)
Schutte, Walter, Haddam, Conn. Sled. No. 1,359,436; Nov. 16; v. 280; p. 542.
Schutter, Fred H., Pleasant Valley, Iowa. Planter. No. 1,343,286; June 15; v. 275; p. 444.
Schutz Hawley Company. (See Schutz, Joseph M., assignor.)
Schutz, Joseph M., assignor to Schutz Hawley Company, Chicago, Ill. Wet coal-mill. No. 1,338,845; May 4; v. 274; p. 36.
Schutze, Oscar G., Forestville, near Adelaide, South Australia, Australia. Construction of ophthalmic mountings. No. 1,343,090; June 8; v. 275; p. 343.
Schuyler, Edward, Syracuse, N. Y. Headlight. No. 1,354,136; Sept. 28; v. 278; p. 616.
Schwab, Edward C., assignor to Phoenix Knitting Works, Milwaukee, Wis. Machine for and method of producing knitted puttees and the like. No. 1,346,136; July 13; v. 276; p. 221.
Schwab, Edward H., South Bethlehem, Pa. Spark-plug. No. 1,359,437; Nov. 16; v. 280; p. 542.
Schwab, Edwin J., Sandusky, Ohio. Nut-lock. No. 1,358,586; Nov. 9; v. 280; p. 331.
Schwab, George A., Washington, D. C. Button. No. 1,355,623; Oct. 12; v. 279; p. 284.
Schwab, Isaac M., Savannah, Ga. Spectacle-temple. No. 1,337,380; Apr. 20; v. 273; p. 443.
Schwab, Louis. (See McGuckin, John J., assignor.)
Schwabacher, Samuel I., Seattle, Wash. Spectacles. No. 1,351,491; Aug. 31; v. 277; p. 889.
Schwagermann, William, assignor to Ward Leonard Electric Company, Yonkers, N. Y. Electric controlling means. No. 1,362,898; Dec. 21; v. 281; p. 478.
Schwank, James O. (See Madigan, Thomas J., assignor.)
Schwanke, Conrad L., Cornelius, Oreg. Rotary valve for internal-combustion engines. No. 1,346,686; July 13; v. 276; p. 330.
Schwantes, Otto R., Clintonville, Wis. Shock-absorber. No. 1,333,040; Mar. 9; v. 272; p. 216.
Schwarcman, Alexander, assignor to Spencer Kellogg & Sons, Inc., Buffalo, N. Y. Food preparation and making same. No. 1,342,827; June 8; v. 275; p. 291.
Schwartz, A. Charles. (See Grabau, Hans E., assignor.)
Schwartz, A. Charles. (See Grabau and Schwartz.)
Schwartz, Arthur A., and W. A. Whiteside, assignors to J. A. Gauthier, Buffalo, N. Y. Coupling for electric-light fixtures. No. 1,356,745; Oct. 26; v. 279; p. 591.
Schwartz, Carl, Sheboygan Falls, Wis. Attachment for fountain-pens. No. 1,346,982; July 20; v. 276; p. 448.
Schwartz, David, *et al.* (See Sussis, Bernhard A., assignor.)
Schwartz, David S., St. Paul, Minn. Brake-head. No. 1,349,534; Aug. 10; v. 277; p. 326.
Schwartz, Edward, New York, N. Y., assignor to Manhattan Electrical Supply Company Inc., Jersey City, N. J. Detachable connector. No. 1,359,280; Nov. 16; v. 280; p. 510.
Schwartz, John, Donora, Pa. Circuit-closer for locks. No. 1,358,254; Nov. 9; v. 280; p. 264.
Schwartz, John G., New York, N. Y. Safety automobile-lock. No. 1,350,741; Aug. 24; v. 277; p. 680.
Schwartz, Mendel, Brooklyn, N. Y. Port-light. No. 1,361,551; Dec. 7; v. 281; p. 116.
Schwartz, Michael, assignor to Automatic Electric Company, Chicago, Ill. Semiautomatic telephone system. No. 1,351,876; Sept. 7; v. 278; p. 32.
Schwartz, Milton S., Brooklyn, N. Y. Antiskid attachment for wheels. No. 1,332,362; Mar. 2; v. 272; p. 86.
Schwartz, Morris, New York, N. Y. Collar. No. 1,355,920; Oct. 19; v. 279; p. 382.
Schwartz, Walter M., assignor to The Philadelphia Textile Machinery Company, Philadelphia, Pa. Rotary drier. No. 1,345,260; June 29; v. 275; p. 950.
Schwartz, Walter M., and E. B. Ayres, assignor to The Philadelphia Textile Machinery Company, Philadelphia, Pa. Fan for drying-machines. No. 1,351,696; Aug. 31; v. 277; p. 929.
Schwartz, Walter M., and F. Kershaw, assignors to The Philadelphia Textile Machinery Company, Philadelphia, Pa. Screen. No. 1,361,626; Dec. 7; v. 281; p. 130.
Schwartz, William, Scottdale, Pa. Antiskid-chain. No. 1,334,055; Mar. 16; v. 272; p. 468.
Schwartzberg, Alter L., Shreveport, La. Display-sign. No. 1,330,142; Feb. 10; v. 271; p. 181.
Schwartzberg, Louis, Chicago, Ill. Egg-case. No. 1,335,300; Mar. 30; v. 272; p. 808.
Schwartzkopf, Jacob, Hailey, Wyo. Harvester attachment. No. 1,339,627; May 11; v. 274; p. 258.
Schwartzman, Abraham, St. Louis, Mo. Finger-ring. No. 1,326,977; Jan. 6; v. 270; p. 19.
Schwarz, Earl G., Highland, Ill. Pipe-organ. No. 1,354,853; Oct. 5; v. 279; p. 81.
Schwarz, Elmer H., Glen Rock, N. J., assignor to The Dayton Engineering Laboratories Company. Electric starting and generating system. No. 1,343,409; June 15; v. 275; p. 468.
Schwarz, Emerich R., and A. J. Martenay, Chicago, Ill. Tool-rod. No. 1,350,425; Aug. 24; v. 277; p. 618.
Schwarz, Emil P., St. Paul, Minn. Wrench. No. 1,356,563; Oct. 26; v. 279; p. 555.
Schwarz, Frederick, Berne, Ind. Swing. No. 1,352,317; Sept. 7; v. 278; p. 116.
Schwarz, Henry A., College Point, N. Y. Clothesline device. No. 1,331,878; Feb. 24; v. 271; p. 596.

Digitized by Google

Schwarz, Henry W., Mart, Tex. Curtain for vehicles. No. 1,358,341; Nov. 9; v. 280; p. 281.
Schwarz, Louis, Jersey City, N. J. Adjustable bracket-holder. No. 1,333,456; Mar. 9; v. 272; p. 294.
Schwarz, Otto C., New Chicago, Ind. Window-sash. No. 1,331,726; Feb. 24; v. 271; p. 566.
Schwarz, Paul G., Indianapolis, Ind. Folding tooth-brush. No. 1,362,269; Dec. 14; v. 281; p. 304.
Schwarze, Herman, assignor to Cadillac Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,345,893; July 6; v. 276; p. 111.
Schwarzenbach, Alwin J., Hasbrouck Heights, and B. W. Tucker, South Orange, N. J.; said Tucker assignor, by mesne assignments, of his right to Michael Gold, New York, N. Y. Machine for shaping artificial-flower petals. No. 1,353,426; Sept. 21; v. 278; p. 429.
Schwarzer, Fritz, St. Gallen, Switzerland. Air-controlling attachment. No. 1,332,363; Mar. 2; v. 272; p. 37.
Schwarzmann, Leon, Washington, D. C. Embroidering-machine. No. 1,354,919; Oct. 5; v. 279; p. 94.
Schwarzmann, Wolfgang E., Springfield, Mass., assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. High-tension distributer for magnetos. No. 1,334,803; Mar. 23; v. 272; p. 655.
Schwarzmann, Wolfgang E., Springfield, Mass., assignor to American Bosch Magneto Corporation, New York, N. Y. Housing for mechanical interrupters. No. 1,335,130; Mar. 30; v. 272; p. 777.
Schwarzmann, Wolfgang E., Springfield, Mass., assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Impulse-starting mechanism. No. 1,337,331; Apr. 20; v. 273; p. 448.
Schwarzmann, Wolfgang E., and F. D. Norman, Springfield, Mass., assignors, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Shaft-coupling. No. 1,338,751; May 4; v. 274; p. 19.
Schwarzmann, Wolfgang E., Springfield, Mass., assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Magneto. No. 1,344,723; June 29; v. 275; p. 856.
Schweiger, William F., and W. J. Balkwill, assignors to Multipost Company, Rochester, N. Y. Stamp or label affixer. No. 1,326,978; Jan. 6; v. 270; p. 19.
Schweinert, Maxmilian C., West Hoboken, N. J. Gage for gas-engines or the like. No. 1,352,697; Sept. 14; v. 278; p. 226.
Schweinert, Maximilian C., West Hoboken, N. J. Pressure-gage. No. 1,352,698; Sept. 14; v. 278; p. 227.
Schweinert, Maximilian C., West Hoboken, N. J. Cap for tire-valves. No. 1,356,476; Oct. 19; v. 279; p. 491.
Schweinert, Maximilian C., West Hoboken, and H. P. Kraft, Ridgewood, N. J. Inflating-coupling. No. 1,330,397; Feb. 10; v. 271; p. 228.
Schweitzer & Conrad. (See Schweitzer, E. O., and Conrad, assignors.) (Reissue.)
Schweitzer, Edmund O. (See Herz, Alfred, assignor.) (Reissue.)
Schweitzer, Edmund O., Chicago, Ill. Overload-circuit-breaking apparatus. No. 1,340,917; May 25; v. 274; p. 630.
Schweitzer, Edmund O., Chicago, Ill. Overload-circuit-breaking apparatus. (Reissue.) No. 14,881; June 8; v. 275; p. 363.
Schweitzer, Edmund O., Chicago, Ill. Testing the insulation of generators in service. No. 1,358,179; Nov. 9; v. 280; p. 249.
Schweitzer, Edmund O., Chicago, Ill. Self-setting liquid fuse. No. 1,358,180; Nov. 9; v. 280; p. 249.
Schweitzer, Edmund O., Chicago, and N. J. Conrad, Wilmette, assignors to Schweitzer & Conrad, Chicago, Ill. Means for extinguishing arcs. (Reissue.) No. 14,897; June 22; v. 275; p. 772.
Schweiz. Serum- und -Impfinstitut. (See Eckmann, Aron, assignor.)
Schweizer, Eugene J. (See Brandt, Charles D., assignor.)
Schwemmer, August, Brooklyn, N. Y. Locking means for automobiles. No. 1,363,676; Dec. 28; v. 281; p. 669.
Schwend, George M., Birmingham, Ala. Draft-gear. No. 1,363,360; Dec. 28; v. 281; p. 608.
Schwentler, Francis E., assignor to The American Brake Company, St. Louis, Mo. Manually-operated slack-adjuster. No. 1,328,341; Jan. 20; v. 270; p. 372.
Schwer, Mack M. (See De Baun, H. C., Schwer, and Kerkhof.)
Schwerdtle Machine Company. (See Rider, Ernest G., assignor.)
Schwerin, Carl. (See Wais, Charles C., assignor.)
Schwerin, Botho, assignor, by mesne assignments, to The Chemical Foundation, Inc., Frankfort-on-the-Main, Germany. Diaphragm for electrochemical and electro-osmotic purposes. No. 1,352,763; Sept. 14; v. 278; p. 240.
Schwerin, Frank H. (See Kopf and Schwerin.)
Schwesinger, George, Jr., assignor of one-half to H. L. Piel, Jr., Baltimore, Md. Sign. No. 1,361,911; Dec. 14; v. 281; p. 233.
Schweyer, Daniel H., Easton, Pa. Train-controlling apparatus. No. 1,342,873; June 8; v. 275; p. 300.
Schweyer, Henry A., Norristown, assignor to S. H. Mensch, Pottstown, Pa. Furnace construction. No. 1,341,594; May 25; v. 274; p. 761.
Schwidetzky, Oscar O. R., Hasbrouck Heights, N. J., assignor to Beckton, Dickinson & Co., Rutherford, N. J. Syringe. No. 1,349,474; Aug. 10; v. 277; p. 314.
Schwinger, Abraham I., assignor of one-half to L. W. Wipperman, Buffalo, N. Y. Coupling for electric fixtures. No. 1,357,524; Nov. 2; v. 280; p. 61.
Schwitzer, Louis, assignor to Automotive Parts Company, Indianapolis, Ind. Lubricating system for fans. No. 1,355,277; Oct. 12; v. 279; p. 217.
Schworm, Clarence W., assignor to The Massillon Wire Basket Co., Massillon, Ohio. Bucket-ear. No. 1,339,584; May 11; v. 274; p. 250.
Schworm, Edward F., Grant township, Grand Traverse county, Mich. Nut-lock. No. 1,334,804; Mar. 23; v. 272; p. 655.
Schworm, Edward F., Grant township, Grand Traverse county, Mich. Wrench element for nut-locks No. 1,335,131; Mar. 30; v. 272; p. 778.
Schwoyer, Levi, Pottstown, Pa. Antislipping attachment for horseshoes. No. 1,327,493; Jan. 6; v. 270; p. 114.
Sciens, Samuel. (See Kaufman, H., and Sciens.)
Scientific Heater Company, The. (See Kuenhold, Otto J., assignor.)
Scigliano, Emanuel P. (See Petrilli, Henry E., assignor.)
Scintilla, Firm. (See Bohli, Jacques, assignor.)
Scintilla Firm. (See Hürlimann, Ernst, assignor.)
Scintilla, Firm. (See Schneider, J., Hürlimann, and Bilon, assignors.)
Scism, Arthur G., assignor of one-half to J. R. Cocks, High Point, N. C. Shaft-guard. No. 1,341,595; May 25; v. 274; p. 761.
Scofield, Edson M., Chester Valley, Pa., and L. M. Scofield, San Diego, Calif., assignors to Scofield Engineering Company, Philadelphia, Pa. Chair for concrete structures. No. 1,356,315; Oct. 19; v. 279; p. 461.
Scohy, John R., Okmulgee, Okla. Internal-lock bait for drawing glass. (Reissue.) No. 14,911; July 6; v. 276; p. 155.
Scofield Engineering Company. (See Scofield, Edson M. and L. M., assignors.)
Scofield, Glenn M., San Diego, Calif., assignor to United Concrete Pipe Company, New York, N. Y. Reinforced-concrete conduit. No. 1,346,687; July 13; v. 276; p. 330.
Scofield, Lynn M. (See Scofield, Edson M. and L. M.)
Scohy, John R., Okmulgee, Okla. Glass-furnace. No. 1,347,181; July 20; v. 276; p. 486.
Scohy, John R., Okmulgee, Okla. Glass-cutter. No. 1,359,751; Nov. 23; v. 280; p. 649.
Scolaro, Sam A. (See Reidl, John, assignor.)
Scollard, Thomas F., Warsaw, Ind. Rotary valve. No. 1,362,899; Dec. 21; v. 281; p. 478.
Scott, A. Lincoln. (See Swift, H. D., and Scott.)
Scott, Alfred R., Enid, Okla. Cutting-tool. No. 1,341,482; May 25; v. 274; p. 740.
Scott, Archie, Ocala, Fla. Eyeglass-chain. No. 1,346,559; July 13; v. 276; p. 305.
Scott, Barton W., San Jose, Calif. Prune-pitting machine. No. 1,329,023; Jan. 27; v. 270; p. 529.
Scott, Blanche E. (See Edmonds, L. M., and Scott.)
Scott, Charles E., Del Norte, Colo. Potato-receptacle. No. 1,340,798; May 18; v. 274; p. 537.
Scott, Charles R., Wyandotte, Okla. Automobile-muffs. No. 1,351,303; Aug. 31; v. 277; p. 852.
Scott, David J., *et al.* (See Scott, D. J., and Drange, assignors.)
Scott, David J., *et al.*, executors. (See Drange, Carl E., assignor.)
Scott, David J., and C. E. Drange, Plainfield, N. J., assignors to I. Scott, and D. J. Scott, executors. Printing-machine. No. 1,339,526; May 11; v. 274; p. 239.
Scott, Dudley H., Cleveland, Ohio. Ice-tractor. No. 1,343,687; June 15; v. 275; p. 523.
Scott, E. Harrison, assignor to Johnson Automobile Sheet Metal Works, Richmond, Ind. Expansion-roll for sheet-metal-forming machines. No. 1,360,450; Nov. 30; v. 280; p. 855.
Scott, Earnest A., Akron, Ohio. Traffic-signal. No. 1,363,537; Dec. 28; v. 281; p. 642.
Scott, Edward A., Stratford, assignor to Winchester Repeating Arms Co., New Haven, Conn. Folding paper carton. No. 1,354,344; Sept. 28; v. 278; p. 658.
Scott, Edward J. (See Wallace, R. M., and Scott.)
Scott, Evan R., Worcester, Mass. Apple-grader. No. 1,363,818; Dec. 28; v. 281; p. 696.
Scott, Francis M. (See Evans, W. J., and Scott.)
Scott, Francis E., *et al.* (See Otto, Albert and W., assignors.)
Scott, Francis M. (See Evans, William J., assignor.)
Scott, George W., assignor of one-half to W. R. Horton, Cleveland, Ohio. Side curtain for vehicles. No. 1,350,471; Aug. 24; v. 277; p. 627.
Scott, Harry C. D., *et al.*, executors. (See Royle, John J. and G. E.)
Scott, Henry B., Rock Ferry, England. Grass-border shears. No. 1,338,873; May 4; v. 274; p. 41.
Scott, Henry H. (See Raphael, J. H., and Scott.)
Scott, Henry L., & Company. (See Scott, Henry L., assignor.)

Digitized by Google

Alphabetical list of patentees—Continued.

Scott, Henry L., assignor to Henry L. Scott & Company, Providence, R. I. Testing-machine. No. 1,335,402; Mar. 30; v. 272; p. 828.
Scott, Herman W., Gardiner, Me. Combination roof-framing tool. No. 1,342,232; June 1; v. 275; p. 122.
Scott, Horace J., Hill City, Minn. Pail. No: 1,349,008; Aug. 10; v. 277; p. 222.
Scott, Isaac M., Wheeling, W. Va. Removing scale from iron plate. No. 1,359,281; Nov. 16; v. 280; p. 510.
Scott, Isaac M., Wheeling, W. Va. Simultaneously annealing and descaling tin-plate. No. 1,359,282; Nov. 16; v. 280; p. 510.
Scott, Isabella, *et al.*, executors. (See Drange, Carl E., assignor.)
Scott, Isabella, *et al.*, executors. (See Scott, D. J., and Drange, assignors.)
Scott, James A., Los Angeles, Calif. Centering device for pistons, &c. No. 1,340,841; May 18; v. 274; p. 544.
Scott, James G., Washington, D. C. Stove. No. 1,335,760; Apr. 6; v. 273; p. 11.
Scott, James W., Falcon, Colo. Agricultural implement. No. 1,345,964; July 6; v. 276; p. 126.
Scott, John M., assignor to M. E. Green Manufacturing Company, St. Louis, Mo. Cabinet for exhibiting eye-testing devices. No. 1,337,728; Apr. 20; v. 273; p. 518.
Scott, John M., Racine, Wis., assignor to O. R. Barnett, Chicago, Ill. Rail-anchor. No. 1,347,595; July 27; v. 276; p. 625.
Scott, John R. (See Scott, Milton C. and J. R.)
Scott, John T., Oakland, Calif. Scarfing-machine. No. 1,330,498; Feb. 10; v. 271; p. 247.
Scott, John W., Bayside, N. Y., and T. H. Greer, Bloomfield, N. J. Safety-thread. No. 1,338,332; Apr. 27; v. 273; p. 702.
Scott, Joseph A., and J. S. Voigt, assignors of one-third to J. Stuart, Detroit, Mich. Tire-lock. No. 1,347,467; July 20; v. 276; p. 543.
Scott, Joseph H., San Francisco, Calif. Automobile-lock. No. 1,360,692; Nov. 30; v. 280; p. 902.
Scott, Lester E., Plantsville, assignor to The Steel Products Company, Hartford, Conn. Connecting device. No. 1,355,169; Oct. 12; v. 279; p. 196.
Scott, Lewis L. (See Newcomb, E. C., and Scott.)
Scott, Lewis L., St. Louis, Mo. Combustion apparatus. No. 1,336,261; Apr. 6; v. 273; p. 105.
Scott, Lewis L., assignor to Standard Engineering Company, St. Louis, Mo. Combustion system. No. 1,334,560; Mar. 23; v. 272; p. 609.
Scott, Lewis L., assignor to Standard Engineering Company, St. Louis, Mo. Throttle-controlling apparatus. No. 1,343,750; June 15; v. 275; p. 536.
Scott, Lewis L., St. Louis, Mo., assignor, by mesne assignments, to The Measuregraph Company. Cloth-measuring machine. (Reissue.) No. 14,898; June 22; v. 275; p. 772.
Scott, Lewis L., assignor to Standard Engineering Company, St. Louis, Mo. Combustion system. No. 1,352,227; Sept. 7; v. 278; p. 99.
Scott, Lewis L., assignor to Standard Engineering Company, St. Louis, Mo. Automobile construction. No. 1,358,117; Nov. 9; v. 280; p. 237.
Scott, Milton C., Omaha, and J. R. Scott, Lincoln, Nebr. Razor-strop protector. No. 1,335,611; Mar. 30; v. 272; p. 868.
Scott, Milton D., Kewanee, Ill. Rolling crutch. No. 1,361,102; Dec. 7; v. 281; p. 24.
Scott, Morris A. (See Alexander, Loga, assignor.)
Scott, Oliver L., San Francisco, Calif. Theft-alarm for automobiles. No. 1,327,573; Jan. 6; v. 270; p. 129.
Scott-Paine, Hubert, Southampton, England. Flying-boat or other light marine vessel. No. 1,353,669; Sept. 21; v. 278; p. 479.
Scott Paper Company. (See Parsons, Philip D., assignor.)
Scott Player Action Co., *et al.* (See Scott, Ray W., assignor.)
Scott, Ray W., New York, N. Y., assignor of one-fifth to Scott Player Action Co., Racine, Wis., and four-fifths to The Northern Trust Co., trustee, Chicago, Ill. Centralizing mechanism for music-sheets. No. 1,357,352; Nov. 2; v. 280; p. 29.
Scott, Robert G. (See MacTaggart, H. H., and Scott.)
Scott, Robert W., Boston, Mass., assignor, by mesne assignments, to Scott & Williams, Incorporated. Stocking and making same. No. 1,327,217; Jan. 6; v. 270; p. 64.
Scott, Robert W., Boston, Mass., assignor, by mesne assignments, to Scott & Williams, Incorporated. Starting selvage and tucking device for knitting-machines. No. 1,348,144; July 27; v. 276; p. 734.
Scott, Robert W., Babylon, N. Y., assignor to Scott & Williams, Incorporated. Web-holder mechanism for knitting-machines. No. 1,345,408; July 6; v. 276; p. 16.
Scott, Robert W., Babylon, assignor to Scott and Williams, Inc., New York, N. Y. Timing-clutch for dial and cylinder knitting-machines. No. 1,356,092; Oct. 19; v. 279; p. 416.
Scott-Snell, Charles, Wimbledon, assignor of one-half to D. Anderson, Gravesend, Kent, England. Gas-fire. No. 1,343,484; June 15; v. 275; p. 483.
Scott, Thomas T., Youngstown, Ohio. Furnace-tapping machine. No. 1,361,103; Dec. 7; v. 281; p. 24.
Scott, Thomas W., assignor to The American Train Control Co., Baltimore, Md. Air-brake-controlling mechanism. No. 1,327,968; Jan. 13; v. 270; p. 264.
Scott, Thomas W., assignor to The American Train Control Company, Baltimore, Md. Train-control apparatus. No. 1,361,410; Dec. 7; v. 281; p. 86.
Scott, Walter R., Philadelphia, Pa. Lace-machine-carriage-threading mechanism. No. 1,346,790; July 13; v. 276; p. 351.
Scott, Walter W., Amsterdam, and A. J. Wohlpart, New York, N. Y., assignors to Union Special Machine Company, Chicago, Ill. Machine for stitching collarets to garments. No. 1,361,411; Dec. 7; v. 281; p. 86.
Scott, William D., Martins Ferry, Ohio. Air collecting and delivering apparatus. No. 1,327,926; Jan. 13; v. 270; p. 257.
Scott, William D., Martins Ferry, Ohio. Rail-chair. No. 1,336,099; Apr. 6; v. 273; p. 75.
Scott, William M. (See Schmid, Henry J., assignor.)
Scott, William M., Sullivan, Ill. Hen's nest. No. 1,329,024; Jan. 27; v. 270; p. 530.
Scott, William M., Tredyffrin township, Chester county, Pa. Control system. No. 1,336,488; Apr. 13; v. 273; p. 207.
Scott, William M., Tredyffrin township, Chester county, Pa. Shock-proof circuit-breaker structure. No. 1,340,564; May 18; v. 274; p. 493.
Scott, William M., Tredyffrin township, Chester county, Pa. Switching apparatus. No. 1,340,918; May 25; v. 274; p. 630.
Scott, William M., Tredyffrin township, Chester county, Pa. Electrical switching system. No. 1,353,185; Sept. 21; v. 278; p. 383.
Scott, William M., Tredyffrin township, Chester county, Pa. Switching apparatus. No. 1,361,912; Dec. 14; v. 281; p. 233.
Scott, William M., Philadelphia, Pa. Stone-spreader. No. 1,338,161; Apr. 27; v. 273; p. 670.
Scott and Williams. (See Nicholson, Fred C., assignor.)
Scott & Williams. (See Scott, Robert W., assignor.)
Scott, Winfield, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Vulcanized caoutchouc and producing same. No. 1,356,495; Oct. 19; v. 279; p. 494.
Scott, Wirt S., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system for ventilating apparatus. No. 1,358,790; Nov. 16; v. 280; p. 417.
Scotti, Alfredo, Whittier, Calif. Traction-wheel. No. 1,360,451; Nov. 30; v. 280; p. 855.
Scovill Manufacturing Company. (See Bennett, Morris H., assignor.)
Scovill Manufacturing Company. (See Davis, Joseph K., assignor.)
Scovill Manufacturing Company. (See Warner, Percy de F. and F. E., assignors.)
Scranton, Henry O., Jeanerette, La. Cane stripper and topper. No. 1,333,187; Mar. 9; v. 272; p. 243.
Scranton, Henry O., Jeanerette, La. Topping and stripping machine. No. 1,343,589; June 15; v. 275; p. 504.
Scranton, Henry O., Jeanerette, La. Conveyer. No. 1,358,024; Nov. 9; v. 280; p. 218.
Scranton, Henry O., Jeanerette, La. Shears for rice-straw. No. 1,359,752; Nov. 23; v. 280; p. 649.
Scray, Edward J. and P. J., De Pere, Wis. Bolt. No. 1,361,627; Dec. 7; v. 281; p. 131.
Scray, Peter J. (See Scray, Edward J. and P. J.)
Scribner, William L., assignor of one-half to R. T. Dawson, Toledo, Ohio. Roller-bearing. No. 1,356,790; Oct. 26; v. 279; p. 599.
Scriven, Bernard E., Mount Vernon, N. Y., assignor to Plimpton Press, Norwood, Mass. Elevating-truck. No. 1,338,255; Apr. 27; v. 273; p. 687.
Scriven, Edward O., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and means for generating low-frequency electrical oscillations. No. 1,357,657; Nov. 2; v. 280; p. 86.
Scrivenor, Arthur. (See Lee, Robert C., assignor.)
Scroggin, Charles. (See Stanfield, G. A., and Scroggin.)
Scroggins, James L., Bennington, Okla. Street-car annunciator. No. 1,350,038; Aug. 17; v. 277; p. 496.
Scullin Steel Company. (See Doerr, Harry E., assignor.)
Scully, George H., Kansas City, Mo. Floor-clamp. No. 1,354,854; Oct. 5; v. 279; p. 81.
Scully, George H., assignor, by mesne assignments, to Automotive Tractor Corporation of America, Kansas City, Mo. Auto-driven tractor. No. 1,348,324; Aug. 3; v. 277; p. 38.
Scully, George H. and J. B., Kansas City, Mo., assignors to J. F. Marx, Hartington, Nebr. Self-soaping washboard. No. 1,354,075; Sept. 28; v. 278; p. 604.
Scully, Jessie B. (See Scully, G. H. and J. B.)
Scully, John J., assignor to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Winding mechanism for spring-motors. No. 1,351,405; Aug. 31; v. 277; p. 872.
Sculthorp, George H., Balham, London, England. Duplicating device for letters and the like. No. 1,334,175; Mar. 16; v. 272; p. 490.

Digitized by Google

Seabold, Walter G., assignor to Illinois Glass Company, Alton, Ill. Carboy-case. No. 1,343,340; June 15; v. 275; p. 455.
Seabold Walter G., assignor to Illinois Glass Company, Alton, Ill. Knockdown shipping-package. No. 1,359,753; Nov. 23; v. 280; p. 650.
Seabrook, Bagster R., Winnipeg, Manitoba, Canada, assignor to M. W. Mix, Mishawaka, Ind. Recording-horn. No. 1,358,883; Nov. 16; v. 280; p. 436.
Seabury, Benjamin H., and J. C. Ollard, Tacoma, Wash. Buffer for doors. No. 1,329,313; Jan. 27; v. 270; p. 583.
Seagrave, Walter H., Cleveland, Ohio. Indoor golf-game. No. 1,334,176; Mar. 16; v. 272; p. 490.
Seailles, Jean C., assignor to Societe Des Vitrages A. M. L. Societe Anonyme, Paris, France. Hermetic glass covering. No. 1,351,492; Aug. 31; v. 277; p. 889.
Seale, Harry V., and W. Sheilshear, Broken Hill, New South Wales, Australia, assignor, by mesne assignments, to Minerals Separation North American Corporation. Machine for the separation of sulfid ores. No. 1,341,024; May 25; v. 274; p. 651.
Seal-Tite Piston Ring Company. (See Fosston, Axel A., assignor.)
Seal, Voorhees N., assignor to The Frog Switch & Manufacturing Company, Carlisle, Pa. Dipper-tooth. No. 1,330,143; Feb. 10; v. 271; p. 181.
Sealy, Christopher, Brooklyn, N. Y. Automobile pilot-signal. No. 1,353,790; Sept. 21; v. 278; p. 502.
Sealy, Ester M., Fort Shafter, Hawaii. Underscorer for typewriters. No. 1,349,107; Aug. 10; v. 277; p. 241.
Seaman, Duncan R. (See Ryan, John H., assignor.)
Seaman, Hallack W. (See Crawford, Albert G., assignor.) (Reissue.)
Seaman, James, assignor of one-half to A. J. Vrooman, Marmarth, N. D. Farm and sod pulverizer. No. 1,332,921; Mar. 9; v. 272; p. 194.
Seaman, Joseph B., *et al.* (See Bartlett, Percy H., assignor.)
Seaman, Joseph P. (See Bartlett, Percy H., assignor.)
Seaman, Robert G., Summerhill, Pa. Steam-boiler furnace. No. 1,346,769; July 13; v. 276; p. 347.
Sear, William J., Baltimore, Md., assignor to W. W. Leister, Quakertown, Pa. Automobile-lifter. No. 1,341,620; May 25; v. 274; p. 766.
Searby, William, Puunene, Hawaii. Rotary cane-cutter. No. 1,348,751; Aug. 3; v. 277; p. 119.
Searight-Downs Manufacturing Co. (See Evon, Louis C., assignor.)
Searle, Charles J. (See Billings, Harry E., assignor.)
Searle, Frederick B., Denver, Colo. Fire-door-operating device. No. 1,336,054; Apr. 6; v. 273; p. 66.
Searle, Harry A., Council Bluffs, Iowa. Grease-drum. No. 1,328,768; Jan. 20; v. 270; p. 452.
Searle, Henry C., Peak Island, Me., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Buttonhole-sewing machine. No. 1,330,555; Feb. 10; v. 271; p. 257.
Searle, Herbert H., *et al.* (See Mentzer, Claude E., assignor.)
Searle, Robert M., Rochester, N. Y. Copy-holder. No. 1,354,697; Oct. 5; v. 279; p. 50.
Searles, Wayne S., assignor to Universal Optical Corporation, Providence, R. I. Ophthalmic mounting. No. 1,345,029; June 29; v. 275; p. 915.
Sears, Roebuck and Co. (See Callery, George F., assignor.)
Sears, Roebuck and Co. (See Hoffman, Rudolph, assignor.)
Sears, Roebuck and Co. (See McCarthy, Lawrence J., assignor.)
Sears, Roebuck and Company. (See Dun Lany, William P., assignor.)
Sears, Sydney L., Lyndhurst, N. J., assignor to United Bottle Machinery Co., New York, N. Y. Glass-discharging device. No. 1,343,183; June 8; v. 275; p. 361.
Sears, Willard T., Brooklyn, assignor to Niles-Bement-Pond Company, New York, N. Y. Counterbalancing mechanism for drilling-machines. No. 1,329,726; Feb. 3; v. 271; p. 71.
Sears, Willard T., Brooklyn, assignor to Niles-Bement-Pond Company, New York, N. Y. Change-speed mechanism. No. 1,342,928; June 8; v. 275; p. 311.
Sears, Willard T., Brooklyn, assignor to Niles-Bement-Pond Company, New York, N. Y. Saddle and head supporting mechanism for drilling-machines. No. 1,350,525; Aug. 24; v. 277; p. 638.
Sears, Willard T., Brooklyn, assignor to Niles-Bement-Pond Company, New York, N. Y. Drilling-machine. No. 1,358,095; Nov. 9; v. 280; p. 219.
Sears, Willard T., Philadelphia, Pa., assignor to Niles-Bement-Pond Company, Jersey City, N. J. Drilling-machine. No. 1,339,044; May 4; v. 274; p. 73.
Seas, William J., Baltimore Md., assignor to W. W. Leister, Quakertown, Pa. Automobile-lifter. No. 1,341,621; May 25; v. 274; p. 766.
Seastrunk, Thomas P., Dallas, Tex. Emblem structure. No. 1,340,465; May 18; v. 274; p. 474.
Seaton, Elvin T., Danbury, Iowa. Hay-loader. No. 1,350,887; Aug 24; v. 277; p. 707.
Seaton, William P., Henderson, New Zealand. Animal-cover. No. 1,335,032; Mar. 30; v. 272; p. 759.
Seator, Robert J., assignor of one-half to H. Matthews, Battle Creek, Mich. Motor for regulators. No. 1,329,553; Feb. 3; v. 271; p. 39.
Seattle Asbestomine Co. (See Schneider, John E., assignor.)
Seattle-Astoria Iron Works. (See Troyer, Nelson, assignor.)
Seavert, Edward W., Camas, Wash. Sawdust-burner. No. 1,359,926; Nov. 23; v. 280; p. 684.
Seaver, Henry E., and C. L. Bowers, assignors to D. M. Wright, Hartford, Conn. Safety device for power-operated machines. No. 1,354,345; Sept. 28; v. 278; p. 658.
Seay Syndicate. (See Ormandy, William R., assignor.)
Sebald, George J., assignor of one-half to A. J. Holzbauer, Milwaukee, Wis. Utensil-guard. No. 1,335,761; Apr. 6; v. 273; p. 11.
Sebastian, Alphonse A., assignor to Andrew Hoffman Manufacturing Company, Chicago, Ill. Casement-window. No. 1,361,913; Dec. 14; v. 281; p. 234.
Sebastian, Alphonse A. and D. R. Capes, assignors to A.-C. Manufacturing Company, Chicago, Ill. Motor-car rear-wheel-brake mechanism. No. 1,348,452; Aug. 3; v. 277; p. 63.
Sebco Company, The. (See Spies, Peter H. F., assignor.)
Sebern, Edward N., *et al.* (See Caywood, James A., assignor.)
Sebeto, John, Brooklyn, N. Y. Life-saving device. No. 1,339,227; May 4; v. 274; p. 107.
Sebring, Cecil F., Laurel, Nebr. Self-opening gate. No. 1,327,257; Jan. 6; v. 270; p. 71.
Sebring, Frank A., and F. Strobl, Sebring, Ohio. Filling device. No. 1,350,673; Aug. 24; v. 277; p. 666.
Sebring, Frank H., Jr., Salem, Ohio. Coating device. No. 1,326,979; Jan. 6; v. 270; p. 19.
Sebring, Theosis C., Kansas City, Mo. Heating apparatus. No. 1,341,723; June 1; v. 275; p. 21.
Sechler & Company, The. (See Baldwin, Frank G., assignor.)
Sechler & Company, The. (See Knapp, Jacob, assignor.)
Sechler, D. M., Implement & Carriage Company. (See Hartsock, Sherman C., assignor.)
Secor, John A., assignor to Advance-Rumely Company, Laporte, Ind. Foot-guard for flywheels. No. 1,333,135; Mar. 9; v. 272; p. 234.
Sederburg, Henry O., East Mill Creek, Pa. Scaffold-bracket. No. 1,339,482; May 11; v. 274; p. 231.
Sederholm, John E., assignor of one-half to E. N. Holstrom, St. Paul, Minn. Trolley-wheel. No. 1,355,575; Oct. 12; v. 279; p. 275.
Sedgke & Kohlhaus Mfg. Co. (See Holy, James R., assignor.)
Sedgwick, Harry A., and K. F. Kummer, assignors to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Control means for speed-change gears. No. 1,334,561; Mar. 23; v. 272; p. 609.
Sedlak, John, Fairchance, Pa. Rail-joint. No. 1,347,414; July 20; v. 276; p. 533.
Sedwick, Mathew M., Chicago, Ill., assignor to Continental Can Company, Inc., Syracuse, N. Y. Stack-holder for can ends. No. 1,347,295; July 20; v. 276; p. 509.
See, Alonso B. (See Lindstrom, N. O., and Olofson, assignors.)
See, Silas S., Roanoke, Va. Wood-sawing machine. No. 1,356,019; Oct. 19; v. 279; p. 401.
Seeck, Ferdinand W., Lebanon, Oreg. Gearless differential power transmission. No. 1,355,170; Oct. 12; v. 279; p. 196.
Seeger, Erwin W., Milwaukee, Wis. Furnace-regulator. No. 1,348,589; Aug. 3; v. 277; p. 89.
Seeger, Erwin W., Milwaukee, Wis., assignor to Seeger Manufacturing Company, Chicago, Ill. Stove. No. 1,348,588; Aug. 3; v. 277; p. 89.
Seeger Manufacturing Company. (See Seeger, Erwin W., assignor.)
Seek, William A., Chicago, Ill. Friction-holder. No. 1,362,641; Dec. 21; v. 281; p. 428.
Seel, Paul C., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ester composition and making same. No. 1,342,601; June 8; v. 275; p. 246.
Seel, Paul C., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-nitrate composition. No. 1,342,602; June 8; v. 275; p. 246.
Seel, Paul C., assignor to Eastman Kodak Company, Rochester N. Y. Cellulose-acetate composition. No. 1,342,603; June 8; v. 275; p. 246.
Seelar, Luther F., assignor to St. Louis Car Company, St. Louis, Mo. Spring-mounting for car-trucks. No. 1,331,529; Feb. 24; v. 271; p. 529.
Seelan, Franz, Berlin-Wilmersdorf, assignor of one-half to A. M. Newman, Berlin-Wannsee, Germany. Arrangement for phonographically recording and reproducing telephonic messages. No. 1,352,546; Sept. 14; v. 278; p. 196.
Seeley, Fayette M., Lansing, Mich. Propelling device for power lawn-mowers. No. 1,345,100; June 29; v. 275; p. 930.
Seeley, Leonard E., assignor of one-half to T. F. Calleiy, Wellington, Ohio. Electrolytic alternating-current chemical-rectifier. No. 1,339,907; May 11; v. 274; p. 311.
Seeley, Oscar P., Jr., Jennings, La. Ironing-board attachment. No. 1,330,724; Feb. 10; v. 271; p. 289.

Digitized by Google

Seelig, Joseph, Lead, S. D. Metallic bed-bottom. No. 1,329,145; Jan. 27; v. 270; p. 553.
Seely, Hart L., Waverly, N. Y. Glove. No. 1,358,791; Nov. 16; v. 280; p. 417.
Seely, Thomas H. (See Brock, M., and Seely.)
Seely, Thomas H., Malden, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on soles. No. 1,344,063; June 22; v. 275; p. 663.
Seely, Thomas H., Malden, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Speed-changing mechanism. No. 1,348,902; Aug. 10; v. 277; p. 201.
Seely, Thomas H., Malden, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Shoe-sewing machine. No. 1,355,856; Oct. 19; v. 279; p. 369.
Seely, Thomas H., Malden, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Stop mechanism. No. 1,356,406; Oct. 19; v. 279; p. 478.
Seely, Thomas H., Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sewing-machine. No. 1,348,901; Aug. 10; v. 277; p. 201.
Seemuller, Otto, Detroit, Mich. Air-gun. No. 1,327,064; Jan. 6; v. 270; p. 35.
Seery, Peter H., Newark, N. J. Bracing-fixture. No. 1,350,674; Aug. 24; v. 277; p. 667.
Seese, Elizabeth M., administratrix. (See Seese, Lloyd.)
Seese, Lloyd, deceased; E. M. Seese, administratrix, Navarre, Ohio. Automatic train-stop. No. 1,356,883; Oct. 26; v. 279; p. 608.
Seese, Samuel R., Vanderbilt, Pa. Permutation-switch. No. 1,338,099; Apr. 27; v. 273; p. 658.
Seewer, Paul W., New Malden, England. Device for governing water-wheels. (Reissue.) No. 14,962; Oct. 10; v. 279; p. 498.
Seewer, Paul W., Geneva, Switzerland, assignor to The English Electric Company, Limited, London, England. Means for regulating hydraulic turbines. No. 1,338,509; Mar. 9; v. 272; p. 304.
Sefčik, Joseph. (See Zetka, J. F., and Sefčik.)
Sefton Manufacturing Corporation. (See Clenny, J. E., and Wright, assignors.)
Sefton Manufacturing Corporation. (See Edington, Henry V., assignor.)
Sefton Manufacturing Corporation. (See Potter, Earl C., assignor.)
Segal, Herman, New York, N. Y. Tone-arm for talking-machines. No. 1,362,747; Dec. 21; v. 281; p. 449.
Segal, Samuel, New York, N. Y. Compound dead-bolt mechanism. No. 1,332,958; Mar. 9; v. 272; p. 201.
Segal, Samuel, New York, N. Y. Key-duplicating machine. No. 1,335,851; Mar. 30; v. 272; p. 818.
Segal, Samuel, New York, N. Y. Sash-lock. No. 1,354,625; Oct. 5; v. 279; p. 36.
Segel, Ernest, Chicago, Ill. Suspenders. No. 1,359,754; Nov. 23; v. 280; p. 650.
Seger, Ludwig, Edgewater, N. J. Step and wall ladder. No. 1,338,100; Apr. 27; v. 273; p. 658.
Segin, Gustav. (See Schlatter, G., and Segin.)
Segre, Mario, Vercelli, Italy. Manufacture of hollow articles from horn. No. 1,338,188; Mar. 9; v. 272; p. 244.
Séguier, Jean J., Castres, France. Gridiron. No. 1,327,258; Jan. 6; v. 270; p. 71.
Seguin, Laurent, assignor to Societe Des Moteurs Gnome Et Rhone, Paris, France. Centrifugal pump. No. 1,345,895; July 6; v. 276; p. 112.
Seguin, Laurent, assignor to Societe Des Moteurs Gnome Et Rhone, Paris, France. Dashboard for motor-vehicles. No. 1,353,427; Sept. 21; v. 278; p. 429.
Segura, Julian, New York, N. Y. Solder for aluminum. No. 1,328,694; Jan. 20; v. 270; p. 438.
Segura, Julian, New York, N. Y. Solder for aluminum. No. 1,344,566; June 22; v. 275; p. 761.
Seib, George A., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,342,186; June 1; v. 275; p. 118.
Seib, George A., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,342,466; June 8; v. 275; p. 220.
Seib, George A., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,345,894; July 6; v. 276; p. 112.
Seib, George A., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,361,104; Dec. 7; v. 281; p. 25.
Seidel, Carlos M., Habana, Cuba. Differential magnetic speed-changing transmission mechanism. No. 1,330,398; Feb. 10; v. 271; p. 228.
Seidel, William, Chicago, Ill. Tire for wheels. No. 1,344,773; June 29; v. 275; p. 867.
Seidenberg, Armin, New York, N. Y. Fractionating compound substances containing ingredients of closely-related solubility. No. 1,340,186; May 18; v. 274; p. 421.
Seidenburg, Charles L., assignor to W. Curry, Philadelphia, Pa. Garment-hanger support. No. 1,340,565; May 18; v. 274; p. 493.
Seidl, Rudolf, Minneapolis, Minn. Culinary device. No. 1,340,566; May 18; v. 274; p. 493.

Seifert, John W., Houston, Tex. Closure for Refrigerators and the like. No. 1,340,084; May 11; v. 274; p. 344.
Seifert, John W., Houston, Tex. Washing-machine. No. 1,353,791; Sept. 21; v. 278; p. 502.
Seiler, John D., Milton, Pa., assignor to American Car and Foundry Company, New York, N. Y. Steam-coil support for tank-cars. No. 1,354,920; Oct. 5; v. 279; p. 95.
Seiler, William, assignor of one-third to C. Hammond, Kokomo, Ind. Automobile-lock. No. 1,332,765; Mar. 2; v. 272; p. 118.
Seimbille, Louis E., Paris, France, assignor to Les Successeurs d'Albert Godde, Bedin & Cie., Paris, France. Electrical heating apparatus. No. 1,352,547; Sept. 14; v. 278; p. 196.
Seinecke, Adolph E., Cincinnati, Ohio. Dynamo-electric-machine construction. No. 1,362,543; Dec. 14; v. 281; p. 357.
Seiniger, David, Middletown, N. Y. Oil-burning heater. No. 1,349,475; Aug. 10; v. 277; p. 314.
Seinsche, August, Milwaukie, Oreg. Gold-separator. No. 1,335,612; Mar. 30; v. 272; p. 866.
Seipp, Anthony, Caseyville, Ill. Steering control for motor-vehicles. No. 1,333,738; Mar. 16; v. 272; p. 409.
Seiss, George J., Toledo, Ohio. Mechanically-operated horn. No. 1,329,275; Jan. 27; v. 270; p. 576.
Seiss, George J., Toledo, Ohio. Lamp-bracket. No. 1,335,396; Mar. 30; v. 272; p. 826.
Seiss, George J., Toledo, Ohio. Mechanically-actuated horn for bicycles, boats, &c. No. 1,344,724; June 29; v. 275; p. 857.
Seiss, George J., Toledo, Ohio. Mechanically-actuated horn. No. 1,348,377; Aug. 3; v. 277; p. 49.
Seitz, James P., Walla Walla, Wash. Tractor-draw-bar attachment. No. 1,340,504; May 18, v. 274; p. 481.
Seitz, Walter T., Pittsburgh, Pa. Marking device. No. 1,351,070; Aug. 31; v. 277; p. 805.
Seitzman, Issax, Brooklyn, N. Y. Ice-cream cutter. No. 1,360,083; Nov. 23; v. 280; p. 705.
Selah, Howard A., assignor of one-half to Albert C. Pedrick, Newark, N. J. Automatic ballast-shifting device. No. 1,339,628; May 11; v. 274; p. 259.
Selander, Gustaf, Chicago, Ill. Clinker-extractor. No. 1,358,428; Sept. 21; v. 278; p. 480.
Selby, Bert, Indianapolis, Ind. Means for applying paste or the like to paper. No. 1,337,729; Apr. 20; v. 273; p. 518.
Selby, Bert, Indianapolis, Ind. Means for applying paste or the like to paper. No. 1,358,026; Nov. 9; v. 280; p. 219.
Selby, Nelson O., Middletown, Ohio. Composition for sealing punctures in pneumatic tires. No. 1,363,438; Dec. 28; v. 281; p. 622.
Selby, Paul. (See Nettle, W. E., Selby, Blyth, and Holman.)
Selden, Charles W., Richmond, Va. Blotting-paper cabinet. No. 1,339,140; May 4; v. 274; p. 92.
Selden Company, The. (See Andrews, Chester E., assignor.)
Selden Company, The. (See Selden, James M., assignor.)
Selden, James M., assignor to The Selden Company, Pittsburgh, Pa. Heater. No. 1,352,481; Sept. 14; v. 278; p. 183.
Selden, James M., assignor to The Selden Company, Pittsburgh, Pa. Vaporizer. No. 1,357,525; Nov. 2; v. 280; p. 61.
Seldomridge, Charles B., *et al.* (See Templeton, William G., assignor.)
Seldomridge, Harry H., *et al.* (See Templeton, William G., assignor.)
Select Service Company. (See Hanson, Harry, assignor.)
Selenkow, Jacob K. (See Bond, Estel O., assignor.)
Self Change Making Drawer Company. (See Bachardy, S. J., and Kiss, assignors.)
Self Closing Gate Company, The. (See Smith, Isaac P., assignor.)
Self Feeding Dauber Co., The. (See Marchione, Lewis, assignor.)
Self Seating Valve Company. (See Washburn, William H., assignor.)
Selig, George A. (See Faistl, M. J., and Selig.)
Sell, Daniel G., Kansas City, Mo. Trousers hanger and presser. No. 1,356,098; Oct. 19; v. 279; p. 416.
Sell, Daniel G., Kansas City, Mo. Pants-press. No. 1,356,094; Oct. 19; v. 279; p. 416.
Sell, Ella R., Spokane, Wash. Combined curtain-pole and window-shade bracket. No. 1,347,126; July 20; v. 276; p. 475.
Sell, George W., Portland, Oreg. Automatic train control. No. 1,331,386; Feb. 17; v. 271; p. 481.
Sell, Henry H., and J. S. Berger, New York, N. Y. Marine water-closet. No. 1,329,932; Feb. 3; v. 271; p. 110.
Sella, Edward J., Jewell, Iowa. Extension steering device. No. 1,347,296; July 20; v. 276; p. 509.
Sellar, George A. (See Leland, Benjamin and Sellar.)
Sellar, John L. (See Torsch, E. L., and Sellar.)
Selle, Cuno, Oakland, Calif. Bolt. No. 1,335,613; Mar. 30; v. 272; p. 866.
Sellek, David W., Chicago, Ill. Governor for motor-vehicles. No. 1,338,196; Apr. 27; v. 273; p. 676.

Digitized by Google

Sellek, David W., Chicago, Ill. Counterbalance construction for hinged covers. No. 1,345,261; June 29; v. 275; p. 959.
Sellers, Arthur E., Huddersfield, England. Cloth cutting or shearing machine. No. 1,349,788; Aug. 17; v. 277; p. 449.
Sellers, J. E., *et al.* (See Shreibman, Abram, assignor.)
Sellers, John A., *et al.* (See Edgar, Robert A., assignor.)
Sellers, Paul T., Nicholasville, Ky. Corn-replanter. No. 1,349,920; Aug. 17; v. 277; p. 473.
Sellers, William F., Wilmington, Del., assignor to Edge Moor Iron Company, Edgemoor, Del. Metallic baffle-plate. No. 1,351,797; Sept. 7; v. 278; p. 16.
Sellew, Ernest B., Pawtucket, R. I. Metal-working machine. No. 1,356,020; Oct. 19; v. 279; p. 401.
Sellew, Roland W., Middletown, assignor to The Fafnir Bearing Company, New Britain, Conn. Ball-lapping machine. No. 1,343,011; June 8; v. 275; p. 328.
Selligman, Joseph, Louisville, Ky. Traffic-signaling device. No. 1,355,361; Oct. 12; v. 279; p. 234.
Sellman, Henry, Brooklyn, N. Y. Ball-mill. No. 1,363,620; Dec. 28; v. 281; p. 658.
Sells, Ogden S., assignor to Peerless Husker Co., Buffalo, N. Y. Butt-remover for corn-huskers. No. 1,333,639; Mar. 16; v. 272; p. 390.
Seltenright, Harry A., Toledo, Ohio. Propelling attachment for tractors. No. 1,354,219; Sept. 28; v. 278; p. 633.
Selwa, Louis. (See Selwa, Stanley, assignor.)
Selwa, Stanley, assignor of one-fourth to L. Selwa, Detroit, Mich. Vapor-stove. No. 1,348,964; Aug. 10; v. 277; p. 213.
Selwacki, Ben, Kulpmont, Pa. Shade-holder. No. 1,342,070; June 1; v. 275; p. 90.
Selz, Andrew J., New Rochelle, N. Y., assignor to Paper Bottle and Can Company, Inc., Wilmington, Del. Paper bottle. No. 1,342,769; June 8; v. 275; p. 279.
Selz, Andrew J., New Rochelle, N. Y., assignor to Paper Bottle and Can Company, Inc., Wilmington, Del Paper bottle. No. 1,342,770; June 8; v. 275; p. 279.
Selz, Emanuel F., Chicago, Ill. Shoe. No. 1,333,737; Mar. 16; v. 272; p. 408.
Semenza, Guido, Milan, Italy. Electric insulator. No. 1,333,640; Mar. 16; v. 272; p. 390.
Semeryk, Mike. (See Chrobak, Kazimier, assignor.)
Semet-Solvay Company. (See Torrey, Bates, Jr., assignor.)
Semko, Andrew. (See Sokač, J., and Semko.)
Semon, William H., Minneapolis, Minn. Device for securing protecting-jackets upon cans. No. 1,353,280; Sept. 21; v. 278; p. 401.
Semple, John B., Sewickley, Pa. Detonator-fuse. No. 1,336,391; Apr. 6; v. 273; p. 130.
Semple, John B., Sewickley, Pa. Selectively-acting fuse. No. 1,347,716; July 27; v. 276; p. 649.
Senderling, Martin L., Jersey City, N. J. Hoisting mechanism. No. 1,355,576; Oct. 12; v. 279; p. 275.
Sendker, Edward A., Bradford, Pa. Automobile-signal. No. 1,338,703; May 4; v. 274; p. 10.
Seneca Camera Mfg. Co. (See Goddard, Joseph, assignor.)
Seneca Falls Manufacturing Co., The. (See Runge, William H., assignor.)
Senft, John, York, assignor to United States Chain and Forging Company, Pittsburgh, Pa. Chain-welding machine. No. 1,360,034; Nov. 23; v. 280; p. 706.
Seng Company, The. (See Okum, Morris B., assignor.)
Seng, Wendelin P., Chicago, Ill. Electrical control system for automobiles. No. 1,350,426; Aug. 24; v. 277; p. 618.
Sengebusch, Hans, Chicago, Ill. Electric safety-razor. No. 1,343,012; June 8; v. 275; p. 328.
Senger, Arthur, Milwaukee, Wis. Steering attachment for vehicles. No. 1,355,171; Oct. 12; v. 279; p. 196.
Senior, Herbert. (See Tyzack, W., Wright, and Senior.)
Senna, Samuel N., assignor to B. F. Perkins & Son, Inc., Holyoke, Mass. Lubricated fan-mounting. No. 1,328,017; Jan. 13; v. 270; p. 274.
Sennett, Walter C., Portland, Me. Automobile-signal. No. 1,344,152; June 22; v. 275; p. 679.
Sense, Benjamin E. (See Cole, J. L., and Sense.)
Senseman, Everett L., and A. P. Ziegler, Shilo Springs, Ohio, assignors to E. L. Senseman, Dayton, Ohio. Playground apparatus. No. 1,344,725; June 29; v. 275; p. 857.
Sensibar, Jacob R., Gary, Ind. Method of and apparatus for collecting and delivering sand. No. 1,337,279; Apr. 20; v. 273; p. 433.
Sentinel Alarm Co. (See Butcher, James M., assignor.)
Senyk, Toronto, Ontario, Canada. Block puzzle. No. 1,350,039; Aug. 17; v. 277; p. 496.
Seper, George. (See Smith, James E., assignor.)
Sera, Ryumatsu, Banning, Calif. Bean-harvesting machine. No. 1,339,674; May 11; v. 274; p. 268.
Serck, Peter O., Birmingham, England. Manufacture of tubular heat-exchange apparatus. No. 1,363,208; Dec. 21; v. 281; p. 538.
Serediuk, John, Winnipeg, Manitoba, Canada. Automobile-wheel tread. No. 1,346,262; July 13; v. 276; p. 246.
Serra, Carlo, New York, N. Y. Message-shell. No. 1,356,746; Oct. 26; v. 279; p. 591.
Serra, Carlo, New York, N. Y. Receiving-station for message-shells. No. 1,363,677; Dec. 28; v. 281; p. 669.
Serrell, John J. (See Smith, R. A., and Serrell.)
Serrell, Lemuel W., New York, N. Y. Bread-board. No. 1,328,301; Jan. 20; v. 270; p. 364.
Serven, A. Ralph, trustee. (See Maxwell, George S., assignor.)
Service, Alexander, Los Angeles, Calif. Condiment-holder. No. 1,354,626; Oct. 5; v. 279; p. 36.
Service Carbide Lamp Company. (See Luttrell, John D., assignor.)
Service Caster & Truck Company, The. (See Chestnutt, John L., assignor.)
Service Invention & Development Company. (See Smith, Robert P., assignor.)
Service Machine Company, The. (See Daniels, Harry H., assignor.)
Service Products Corporation. (See Root, Ralph C., assignor.)
Service Station Equipment Company. (See Patrick, H. E., Peterson, and Bermes, assignors.)
Service, William F., Poughkeepsie, assignor, by mesne assignments, to C. Hardy and C. H. Potter, New York, N. Y. Rotor for timers. No. 1,334,177; Mar. 16; v. 272; p. 490.
Service, William F., Poughkeepsie, assignor, by mesne assignments, to C. Hardy and C. H. Potter, New York, N. Y. Foot-pump. No. 1,348,058; July 27; v. 276; p. 718.
Servis, Fred T., Ontario, N. Y. Pouring-spout for cans. No. 1,328,104; Jan. 13; v. 270; p. 290.
Serwe, Philip L., Chicago, Ill., and G. C. Dickey, Seattle, Wash. Refrigerator display vending-vehicle. No. 1,340,853; May 18; v. 274; p. 547.
Sessions, Edson O., Chicago, Ill. Locking-switch. No. 1,342,972; June 8; v. 275; p. 319.
Sessions, Frank L., Lakewood, Ohio. Float-valve mechanism. No. 1,342,874; June 8; v. 275; p. 301.
Sessions, Frank L., Lakewood, assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Apparatus for electric welding. (Reissue.) No. 14,027; July 27; v. 276; p. 735.
Sesty, Leopold., Bridgeport, Conn. Lifeboat. No. 1,352,318; Sept. 7; v. 278; p. 116.
Sether, Johan A. (See Johannessen, J. E., Sether, Hoff, and Christiansen.)
Setter, George, assignor to Peerless Piston Ring M'f'g. Co., Chicago, Ill. Piston-ring. No. 1,363,281; Dec. 28; v. 281; p. 593.
Settlage, August C., New Bremen, Ohio. Dumping mechanism for trucks and the like. No. 1,328,240; Jan. 13; v. 270; p. 317.
Settlage, August C., New Bremen, Ohio. Dumping mechanism for trucks. No. 1,336,163; Apr. 6; v. 273; p. 87.
Settlage, Rudolph F., Alton, Ill., assignor to Brokaw-Eden Company. Door-lock for revolving drums. No. 1,346,263; July 13; v. 276; p. 247.
Settlage, Rudolph F., St. Louis, Mo. Reversing-gear for washing-machines. No. 1,347,975; July 27; v. 276; p. 700.
Settle, William L., assignor to J. R. Corbett, Memphis, Tenn. Spudding-shoe. No. 1,340,420; May 18; v. 274; p. 466.
Setzer, Chester G. (See Foster, Harry C., assignor.)
Seufer, Ernest, and P. Duber, Evansville, Ind. Device for preventing clogging and jamming of conveyers of bottling machinery. No. 1,358,255; Nov. 9; v. 280; p. 264.
Seufert, William J., The Dalles, Oreg. Carbureter. No. 1,334,263; Mar. 16; v. 272; p. 506.
Sevczov, Georgi, Ralphton, Pa. Revolving vending-booth. No. 1,343,794; June 15; v. 275; p. 545.
Severance, Ivan H., Harlowton, Mont. Starter for vapor-burners. No. 1,362,966; Dec. 21; v. 281; p. 490.
Severén, Thaddeus, Bridgeport, Conn. Ratchet-wrench. No. 1,352,764; Sept. 14; v. 278; p. 240.
Severns, William, Chicago, Ill. Polishing apparatus. No. 1,353,429; Sept. 21; v. 278; p. 430.
Severns, William, Chicago, Ill. Mop. No. 1,362,900; Dec. 21; v. 281; p. 478.
Severson, Edward, Hunter, N. D. Twine-dipping attachment for self-binders. No. 1,329,681; Feb. 3; v. 271; p. 63.
Severson, Melvin, Galesville, Wis. Wire-stretcher. No. 1,328,599; Jan. 20; v. 270; p. 421.
Severson, Samuel, Valders, Wis. Hair-cutting appliance. No. 1,331,218; Feb. 17; v. 271; p. 450.
Severson, Sanford H. (See Libbey, Samuel R., asignor.)
Severson, Thomas, assignor to Duluth Corrugating & Roofing Company, Duluth, Minn. Tank-heater. No. 1,337,800; Apr. 20; v. 273; p. 531.
Severson, Thomas, assignor to Duluth Corrugating & Roofing Company, Duluth, Minn. Printer's rack. No. 1,338,101; Apr. 27; v. 273; p. 659.
Severy, Melvin L., Los Angeles, Calif. Orthopedic device. No. 1,350,944; Aug. 24; v. 277; p. 718.
Severy, Melvin L., Los Angeles, Calif. Synchronizer. No. 1,356,226; Oct. 19; v. 279; p. 443.

Digitized by Google

Severy, Melvin L., Arlington Heights, Mass., and G. B. Sinclair, Georgetown, Me. Synchronizer. No. 1,332,414; Mar. 2; v. 272; p. 46.
Sévigné, Henri, Winthrop, Mass. Lock-nut. No. 1,352,765; Sept. 14; v. 278; p. 240.
Seward Trunk and Bag Company. (See Dunn, W. W., and Beasley, assignors.)
Seward Trunk and Bag Company. (See McNamara, John E., assignor.)
Sewell-Clapp-Envelopes (See Fraser, Le Roy B., assignor.)
Sewell-Clapp-Envelopes. (See Strong, Mark D., assignor.)
Sewell, O. A., *et al.* (See Atteberry, William A., assignor.)
Sexton, Isaac E., Boston, Mass. Riveting-machine. No. 1,328,905; Jan. 27; v. 270; p. 508.
Sexton, James P., Los Angeles, Calif. Making lath or the like. No. 1,344,826; June 29; v. 275; p. 877.
Sexton, Joseph D. (See Sexton, William E., assignor.)
Sexton Manufacturing Corporation. (See Knapp, Clyde S., assignor.)
Sexton, Roy W., Wytheville, Va. Stamping embroidery-forms. No. 1,360,804; Nov. 30; v. 280; p. 924.
Sexton, Timothy D., Oakland, Calif. Wire-fastening means. No. 1,363,018; Dec. 21; v. 281; p. 501.
Sexton, William E., assignor to J. D. Sexton, New York, N. Y. Centering-support. No. 1,361,105; Dec. 7; v. 281; p. 25.
Seyerle, Christian, Gowanda, N. Y. Automatic safety-guard for embossing-presses. No. 1,357,427; Nov. 2; v. 280; p. 43.
Seymour, Benjamin F., Denver, Colo. Gear. No. 1,329,807; Feb. 3; v. 271; p. 86.
Seymour, Benjamin F., assignor to The International Army and Navy Equipment Company, Denver, Colo. Extensible mast. No. 1,342,828; June 8; v. 275; p. 291.
Seymour, Charles R., assignor to M. D. Knowlton Company, Rochester, N. Y. Finger-guard for box-covering and similar machines. No. 1,330,908; Feb. 17; v. 271; p. 393.
Seymour, Charles R., assignor to M. D. Knowlton Company, Rochester, N. Y. Box-covering machine. No. 1,333,940; Mar. 16; v. 272; p. 446.
Seymour, Dudley S., Oak Park, Ill., assignor to Union Special Machine Company, Chicago, Ill. Fabric feeding and stretching mechanism. No. 1,354,514; Oct. 5; v. 279; p. 13.
Seymour, Dudley S., Oak Park, Ill., assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine. No. 1,354,783; Oct. 5; v. 279; p. 67.
Seymour, Frederick, East Orange, N. J. Furnace and the process of combustion of pulverulent and other fuel, adapted for steam-boilers. No. 1,355,172; Oct. 12; v. 279; p. 196.
Seymour, Frederick, assignor to Aero Pulverizer Company, East Orange, N. J. Pulverizer and fine pulverizing. No. 1,363,361; Dec. 28; v. 281; p. 608.
Seymour, John K., assignor of one-fifth to M. H. Stearns and one-fifth to R. W. Kauffman, Elyria, Ohio. Garment supporter and fastener. No. 1,346,342; July 13; v. 276; p. 262.
Seymour, Mark L., Potlatch, Idaho, assignor of one-third to T. Tucker, and one-third to Washington Machinery and Supply Company, Spokane, Wash. Portable cooking-stove. No. 1,340,421; May 18; v. 274; p. 466.
Seymour, Mark T., Stowe, N. Y. Electric coffee and peanut roaster. No. 1,334,876; Mar. 23; v. 272; p. 669.
Seymour Metal Goods Company, The. (See Hancock, Thomas F., assignor.)
Seymour, Ralph C., Larchmont, N. Y., assignor to Goss Printing Press Company. Sheet feeding and cutting machine. No. 1,331,727; Feb. 24; v. 271; p. 566.
Sgritta, Alfonso, Brooklyn, N. Y. Pulley. No. 1,353,074; Sept. 14; v. 278; p. 301.
Shackleford, Alfred E., and G. A. Franklin, Calgary, Alberta, Canada. Valve. No. 1,350,040; Aug. 17; v. 277; p. 497.
Shackelford, Stanley H., Washington, D. C. Safety-zone indicator. No. 1,343,524; June 15; v. 275; p. 491.
Shadall, Charles E., Milwaukee, assignor to Shadall Manufacturing Company, Wauwatosa, Wis. Water-closet. No. 1,340,567; May 18; v. 274; p. 493.
Shadall Manufacturing Company. (See Shadall, Charles E., assignor.)
Shadduck, Guy A., Roseburg, Oreg. Pressure-closed valve. No. 1,364,001; Dec. 28; v. 281; p. 732.
Shadel, Henry A., and H. Halverson, Madison, Wis. Collapsible shipping-crate for live stock. No. 1,355,173; Oct. 12; v. 279; p. 197.
Shadford, Orva L., Los Angeles, Calif. Marker for planters. No. 1,346,063; July 6; v. 276; p. 145.
Shafer, Arthur A., assignor to Rickert-Shafer Company, Erie, Pa. Threading-die mechanism. No. 1,345,709; July 6; v. 276; p. 75.
Shafer, Arthur A., assignor to Rickert-Shafer Company, Erie, Pa. Collapsible tap. No. 1,345,710; July 6; v. 276; p. 75.
Shafer, Carl R., Detroit, Mich. Safety egg-case. No. 1,330,284; Feb. 10; v. 271; p. 206.
Shafer, Charles D., Escatawpa, Miss. Weather-strip. No. 1,345,409; July 6; v. 276; p. 16.
Shafer, Francis M., Moab, Utah. Dating-stamp. No. 1,340,122; May 11; v. 274; p. 352.
Shafer, Frank B., Northville, Mich., assignor, by mesne assignments, to J. A. Kelly, Chicago, Ill. Chemical-closet. No. 1,343,287; June 15; v. 275; p. 444.
Shafer, Frank B., assignor of one-half to R. B. Thompson, Northville, Mich. Oil-burner. No. 1,362,192; Dec. 14; v. 281; p. 289.
Shafer, George B., *et al.* (See Anderson, Albert L., assignor.)
Shafer, Homer R., Detroit, Mich. Resilient wheel. No. 1,343,086; June 22; v. 275; p. 647.
Shafer, James N., Denver, Colo. Multiple-compartment inner tube for automobile and other tires. No. 1,341,936; June 1; v. 275; p. 64.
Shafer, John C., Edina, Mo. Tap and faucet. No. 1,344,827; June 29; v. 275; p. 877.
Shafer, Mollie M., Los Angeles, Calif., Douche-tip. No. 1,338,464; Apr. 27; v. 273; p. 727.
Shaffer, Glenn. (See Gieser, C., and Shaffer.)
Shaffer, John M., *et al.* (See Dixon, J., and Shaffer.)
Shaffer, Joseph, McKittrick, Calif. Adjustable pipe-wrench. No. 1,346,983; July 20; v. 276; p. 448.
Shaffer, Merle L., Castana, Iowa. Seed-corn stringer. No. 1,332,766; Mar. 2; v. 272; p. 113.
Shaffer, Ralph R. (See Brown, C. S., and Shaffer.)
Shaffer, Richard M., assignor of one-fourth to C. B. Mann and one-fourth to C. B. Mann, Jr., Baltimore, Md. Aeroplane-propeller. No. 1,338,874; May 4; v. 274; p. 41.
Shaffer, Tobias, Boone, Iowa. Hand potato-planter. No. 1,358,587; Nov. 9; v. 280; p. 331.
Shailer, Paul R., Washington, D. C. Combination telephone-screen and container for confectionery or the like. No. 1,361,628; Dec. 7; v. 281; p. 131.
Shakespeare Company. (See Shakespeare and Schmid, assignors.)
Shakespeare, William, Jr., and W. Schmid, assignors to Shakespeare Company, Kalamazoo, Mich. Fishline-reel. No. 1,330,553; Feb. 10; v. 271; p. 257.
Shallcross, Wilmer H., Milwaukee, Wis. Dynamometer. No. 1,354,698; Oct. 5; v. 279; p. 50.
Shallcross, Wilmer M., Milwaukee, Wis. Motor-controller. No. 1,341,937; June 1; v. 275; p. 64.
Shallenberger, Charles S. (See Westlake, C. T., and Shallenberger.)
Shamberg, Herbert D., New York, N. Y. Manufacture of power plants. No. 1,343,485; June 15; v. 275; p. 483.
Shambow, John C., Woonsocket, R. I., assignor to Shambow Shuttle Company, Woonsocket, R. I. Shuttles. No. 1,340,568; May 18; v. 274; p. 493.
Shambow Shuttle Company. (See Gladu, Wilfred J., assignor.)
Shambow Shuttle Company. (See Shambow, John C., assignor.)
Shamo, Charles H., Louisville, Ky. Shock-absorber for footwear. No. 1,332,070; Feb. 24; v. 271; p. 631
Shamp, Carroll C., *et al.* (See Keeley, Charles A., assignor.)
Shanahan, Thomas B., assignor to Legal Level Light Co., Rochester, N. Y. Non-glare headlight. No. 1,354,699; Oct. 5; v. 279; p. 51.
Shanahan, Thomas F., Jersey City, N. J. Car construction. No. 1,363,059; Dec. 21; v. 281; p. 509.
Shanaman, John K., Annville, Pa. Auxiliary seat. No. 1,354,137; Sept. 28; v. 278; p. 616.
Shand, E Blake, Detroit, Mich. Removable window-stop and securing means therefor. No. 1,332,007; Feb. 24; v. 271; p. 620.
Shand, E. Blake, Detroit, Mich. Splicer for sash straps and cords. No. 1,352,091; Sept. 7; v. 278; p. 78.
Shane, Edgar G., Ottawa, Ontario, Canada. Automobile-signal. No. 1,345,557; July 6; v. 276; p. 46.
Shank, McConnell, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Terminal seal for storage batteries. No. 1,342,511; June 8; v. 275; p. 228.
Shanklin, Benjamin M., Springfield, Mass. Strip-punching apparatus. No. 1,346,916; July 20; v. 276; p. 434.
Shanklin, George R., Springfield, Ill. Valve structure for acetylene-lamps and the like. No. 1,334,505; Mar. 23; v. 272; p. 598.
Shanklin, George R., Springfield, Ill. Valve device for acetylene-lamps and the like. No. 1,334,506; Mar. 23; v. 272; p. 598.
Shanklin, George R., Springfield, Ill. Valve. No. 1,357,595; Nov. 2; v. 280; p. 74.
Shanklin, George R., Springfield, Ill. Valve structure for acetylene-lamps and the like. No. 1,357,596; Nov. 2; v. 280; p. 74.
Shanklin, George R., Springfield, Ill. Valve device for acetylene-lamps and the like. No. 1,359,755; Nov. 23; v. 280; p. 650.
Shanks, John N., Spokane, Wash., assignor to Inland Automatic Thrasher and Machinery Company, Limited, Post Falls, Idaho. Feed mechanism for threshing-machines. No. 1,342,574; June 8; v. 275; p. 241.
Shannon, Archibald, assignor of one-third to A. E. Shannon, Philadelphia, Pa. Apparatus for making coatings of liquid or atomized substances. No. 1,357,908; Nov. 2; v. 280; p. 135.
Shannon, Aubrey E. (See Shannon, Archibald, assignor.)
Shannon, Baker L., Healton, Okla. Gas-burner. No. 1,337,801; Apr. 20; v. 273; p. 532.

Digitized by Google

Shannon, Grant H., San Francisco, Calif. Clothes-washer. No. 1,332,858; Mar. 2; v. 272; p. 130.

Shannon, Harris M., assignor of one-half to O. Nentwig, Richmond, Tex. Emergency-tire. No. 1,341,345; May 25; v. 274; p. 713.

Shannon, Richard A., Philadelphia, assignor of one-third to J. M. Varble, Freedom, and one-third to S. E. Snyder, New Brighton, Pa. Electrical apparatus for controlling and classifying cars. No. 1,360,150; Nov. 23; v. 280, p. 728.

Shannon, S. Q., Pasadena, and H. P. Randall, Los Angeles, Calif.; said Randall assignor to said Shannon. Automobile lock and traction device. No. 1,337,568; Apr. 20; v. 273; p. 487.

Shannon, Thomas L. (See Stahlgren, K. A., and Shannon.)

Shannon, William H., Astoria, Ill. Corn-cultivator attachment. No. 1,338,594; Apr. 27; v. 273; p. 750.

Shantz, Ralph A., assignor of one-third to O. A. Steelhammer, Salem, and one-third to J. F. Steelhammer, Woodburn, Oreg. Valve-grinder. No. 1,352,840; Sept. 14; v. 278; p. 255.

Shapiro, David H., Montreal, Quebec, Canada. Garment-form. (Reissue.) No. 14,981; Nov. 9; v. 280; p. 353.

Shapiro, Henry, and I. Joffe, New York, N. Y. Sewing-machine. No. 1,358,471; Nov. 9; v. 280; p. 300.

Shapiro, Herman, Cleveland, Ohio, assignor of one-half to A. E. Bernsteen and F. S. Day. Photograph-printing apparatus. No. 1,335,860; Apr. 6; v. 273; p. 29.

Shapiro, Jacob, Brooklyn, N. Y. Automatic stop for sewing-machines. No. 1,332,071; Feb. 24; v. 271; p. 631.

Shapiro, Louis, assignor to American Radiator Works, Providence, R. I. Section for radiators. No. 1,363,678; Dec. 28; v. 281; p. 669.

Shapiro, Morris M., Philadelphia, Pa. Display-box. No. 1,345,711; July 6; v. 276; p. 75.

Shapiro, Samuel G., New York, N. Y. Shoe-heel. No. 1,354,138; Sept. 28; v. 278; p. 616.

Shapiro, Samuel G., New York, N. Y. Shoe-heel. No. 1,355,362; Oct. 12; v. 279; p. 234.

Shapiro, Samuel G., New York, N. Y. Shoe-heel. No. 1,356,227; Oct. 19; v. 279; p. 443.

Shapiro, Samuel G., New York, N. Y. Shoe-heel. No. 1,356,228; Oct. 19; v. 279; p. 443.

Shapley, Frederick W., Canton, Ohio. Artificial tooth. No. 1,363,169; Dec. 21; v. 281; p. 530.

Shappat, Charles E., Eldorado, Kans. Clamp. No. 1,359,539; Nov. 23; v. 280; p. 607.

Sharar, Fred H., Williamsport, Pa. Valve-adjuster. No. 1,343,525; June 15; v. 275; p. 491.

Share, Arthur A., Philadelphia, Pa. Spring-lubricating device. No. 1,361,914; Dec. 14; v. 281; p. 234.

Sharkey, Dominick W., Syracuse, N. Y. Aeroplane. No. 1,355,624; Oct. 12; v. 279; p. 284.

Sharkey, James L. (See Reisenberg, Francis S., assignor.)

Sharon Hardware Manufacturing Company. (See Piper, George M., assignor.) (Reissue.)

Sharp, Charles S., Auburn, N. Y., assignor to International Harvester Company. Tractor disk harrow. No. 1,334,562; Mar. 23; v. 272; p. 609.

Sharp, Charles S., Auburn, N. Y., assignor, by mesne assignments, to International Harvester Company. Cultivator. No. 1,346,512; July 13; v. 276; p. 295.

Sharp, Elmer R., Davenport, Iowa. Bottle-capping machine. No. 1,363,170; Dec. 21; v. 281; p. 531.

Sharp, Elmer R., assignor to Reinhold, Sharp & Company, Davenport, Iowa. Bottle-capper. No. 1,338,656; Apr. 27; v. 273; p. 762.

Sharp, Howard O., assignor, by mesne assignments, to Troy Foundry & Machine Company, Troy, N. Y. Tire-pump. No. 1,363,621; Dec. 28; v. 281; p. 658.

Sharp, John, Cleveland, Ohio. Spark-plug. No. 1,331,387; Feb. 17; v. 271; p. 482.

Sharp, Joseph W., Jr., Berwyn, Pa., assignor to Haines, Jones & Cadbury, Incorporated. Bathtub waste-fitting. No. 1,330,909; Feb. 17; v. 271; p. 393.

Sharp, Joseph W., Jr., Berwyn, Pa., assignor to Haines, Jones & Cadbury, Incorporated. Lavatory. No. 1,334,407; Mar. 23; v. 272; p. 580.

Sharp, Joseph W., Jr., Berwyn, Pa., assignor to Haines, Jones & Cadbury Incorporated. Faucet control. No. 1,345,643; July 6; v. 276; p. 61.

Sharp, L. C. (See Kratz, Roy G., assignor.)

Sharp, Lee C., Plattsmouth, Nebr. Method and means for forming and baking cup pastry. No. 1,341,081; May 25; v. 274; p. 662.

Sharp, Robert H., Chicago, Ill. Vanity-case. No. 1,353,281; Sept. 21; v. 278; p. 401.

Sharp, Samuel J., assignor to J. L. Stifel & Sons, Wheeling, W. Va. Lubricator. No. 1,328,209; Jan. 13; v. 270; p. 310.

Sharp, Samuel J., assignor to J. L. Stifel & Sons, Wheeling, W. Va. Journal-bearing. No. 1,358,588; Nov. 9; v. 280; p. 331.

Sharp & Smith. (See Brix, Harold M., assignor.)

Sharp, Walter B., Mount Vernon, N. Y. Compensation expansion roofing connection. No. 1,334,178; Mar. 16; v. 272; p. 491.

Sharp, William P., Columbus, Ohio. Curtain-holder for automobile tops. No. 1,340,799; May 18; v. 274; p. 537.

Sharp, William P., Columbus, Ohio. Apron. No. 1,358,589; Nov. 9; v. 280; p. 331.

Sharpe, William A., Detroit, Mich. Electric heater. No. 1,360,452; Nov. 30; v. 280; p. 855.

Sharpless, Philip T., St. Davids, Pa. Separating substances from liquids. No. 1,351,265; Aug. 31; v. 277; p. 843.

Sharpless Specialty Company, The. (See Jones, Leo D., assignor.)

Sharpnack, James A., Rices Landing, Pa. Shim. No. 1,359,438; Nov. 16; v. 280; p. 542.

Sharpnack, Matthew C., Jamison, Nebr. Hose-coupling. No. 1,339,141; May 4; v. 274; p. 92.

Sharpneck, Matthew C., and C. A. Crisman, assignors of one-third to A. E. Agee, Omaha, Nebr. Driving-gear for automobiles. No. 1,349,695; Aug. 17; v. 277; p. 431.

Sharrard, Arthur W., Chelan Falls, Wash. Fruit-picking bag. No. 1,354,220; Sept. 28; v. 278; p. 633.

Shartle, Harry L., Walden, N. Y. Valve construction for pumps. No. 1,334,507; Mar. 23; v. 272; p. 599.

Shaughnessy, Edward J., Brooklyn, N. Y. Towel-cabinet. No. 1,345,262; June 29; v. 276; p. 960.

Shaughnessy, Sara. (See Carhart, L. P., and Shaughnessy.)

Shaut, Edwin J., assignor to Rochester Patents Corporation, Rochester, N. Y. Pastry-baking machine. No. 1,333,781; Mar. 16; v. 272; p. 416.

Shaver, Archibald G., Chicago, Ill., assignor to Casale Safety Device Company, New York, N. Y. Brake-pipe valve. No. 1,339,720; May 11; v. 274; p. 276.

Shaver, Archibald G., Chicago, Ill., assignor, by mesne assignments, to Regan Safety Devices Company, Inc. Reservoir-valve. No. 1,359,540; Nov. 23; v. 280; p. 607.

Shaver, Earl A., Belgrade, Nebr. Index-file. No. 1,329,808; Feb. 3; v. 271; p. 86.

Shaver, Elmer C., New York, N. Y. Inking-roller controller. No. 1,331,219; Feb. 17; v. 271; p. 450.

Shaver, George F., New York, N. Y., assignor to The Hydragas Corporation. Increasing the power of gas-engines. No. 1,343,938; June 22; v. 275; p. 638.

Shaver, William R., assignor of one-third to A. S. Robertson, Covington, Va. Needle-valve. No. 1,332,310; Mar. 2; v. 272; p. 25.

Shaw, Al B., Medford, Mass., assignor to Shaw Tire Company, Boston, Mass. Inner tube. No. 1,360,453; Nov. 30; v. 280; p. 856.

Shaw, Byron A., Bradford, N. Y. Grinding-plate for feed-mills. No. 1,361,915; Dec. 14; v. 281; p. 234.

Shaw, Charles H., Babylon, N. Y. Phonograph sound-boxes. No. 1,347,059; July 20; v. 276; p. 463.

Shaw, Clarence W., Chicago, Ill. Brake for aeroplanes. No. 1,360,454; Nov. 30; v. 280; p. 856.

Shaw, Edward, London, England. Apparatus for evaporating or concentrating liquids. No. 1,355,762; Oct. 12; v. 279; p. 299.

Shaw Electric Crane Company. (See Sawyer, Harry, assignor.)

Shaw, Fred H., Dallas, Tex. Riveting-machine and riveting. No. 1,355,363; Oct. 12; v. 279; p. 234.

Shaw, Frederick H., *et al.* (See Dobbins, Michael G., assignor.)

Shaw, George H., Camillus, N. Y. Photographic-plate holder. No. 1,362,193; Dec. 14; v. 281; p. 289.

Shaw, George S., Vancouver, British Columbia, Canada. Baby-carriage. No. 1,363,439; Dec. 28; v. 281; p. 622.

Shaw, Harry, Chicago, Ill. Adjustable stool or chair. No. 1,344,092; June 22; v. 275; p. 668.

Shaw, Harry, Chicago, Ill. Adjustable stool or chair. No. 1,357,825; Nov. 2; v. 280; p. 119.

Shaw, Harry, Chicago, Ill. Adjustable chair-back. No. 1,357,826; Nov. 2; v. 280; p. 119.

Shaw, Harry H., Cambria, Calif. Can-spout. No. 1,342,299; June 1; v. 275; p. 134.

Shaw, James, St. Louis, Mo. Dust-cap for protecting automobile-tire valves. No. 1,335,861; Apr. 6; v. 273; p. 29.

Shaw, James C. (See Melten, J. F., and Shaw.)

Shaw, James E., Trinidad, Colo. Tool for cutting tire-treads. No. 1,328,547; Jan. 20; v. 270; p. 411.

Shaw, Jennie M., Beggs, Okla. Cooker. No. 1,331,580; Feb. 24; v. 271; p. 529.

Shaw, John H., New Haven, Conn. Walking toy. No. 1,332,072; Feb. 24; v. 271; p. 631.

Shaw, John H., New Haven, Conn. Walking toy. No. 1,332,073; Feb. 24; v. 271; p. 632.

Shaw, John H., assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,333,189; Mar. 9; v. 272; p. 244.

Shaw, John H., assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,339,721; May 11; v. 274; p. 276.

Shaw, John N., Seattle, Wash. Attachment for coffee-urns. No. 1,331,032; Feb. 17; v. 271; p. 417.

Shaw, John N., Seattle, Wash. Coffee-urn. No. 1,341,285; May 25; v. 274; p. 701.

Shaw, John S., Pool, near Leeds, England. Furnace for melting glass and other purposes. No. 1,359,756; Nov. 23; v. 280; p. 650.

Shaw, John W., Santa Clara county, Calif. Artificial dam. No. 1,330,957; Feb. 17; v. 271; p. 393.

Digitized by Google

Alphabetical list of patentees—Continued.

Shaw, Joseph B., and G. A. Bole, Alfred, N. Y. Magnesium-oxychlorid cement. No. 1,333,510; Mar. 9; v. 272; p. 304.
Shaw, Levi M., assignor to H. C. Johnson, Glencoe, Ill. Speed-controlling mechanism. No. 1,344,726; June 29; v. 275; p. 857.
Shaw, Levi M., assignor to H. C. Johnson, Glencoe, Ill. Mechanical change-speed appliance. No. 1,344,727; June 29; v. 275; p. 857.
Shaw, Lloyd D., Higgins, Tex. Electricity-dispelling device for paper-printing apparatus. No. 1,328,403; Jan. 20; v. 270; p. 384.
Shaw, Luther S., Detroit, Mich. Boiler arch and wall and means for supporting same. No. 1,345,410; July 6; v. 276; p. 17.
Shaw, Oscar A., Atlanta, Ga. Chair. No. 1,341,596; May 25; v. 274; p. 760.
Shaw, Reginald A. (See Burton, C., and Shaw.)
Shaw, Robert M., St. Louis, Mo. Electrolytic cell. No. 1,346,849; July 20; v. 276; p. 421.
Shaw, Roy E., Spearfish, S. D. Extensible electrical fixture. No. 1,348,752; Aug. 3; v. 277; p. 119.
Shaw, Samuel H., assignor to Inglis M. Upperen, New York, N. Y. Automobile-bumper. No. 1,363,927; Dec. 28; v. 281; p. 717.
Shaw, Thomas. (See Blackwell, Shaw, and Kenkel.)
Shaw, Thomas, Woonsocket, R. I. Micrometer-gage. No. 1,350,185; Aug. 17; v. 277; p. 525.
Shaw Tire Company. (See Shaw, A. B., assignor.)
Shaw, Vernon. (See Hutchinson, J. T., Shaw, and Barnes.)
Shaw, Wilber S., Dallas, Tex. Measuring and dispensing device. No. 1,360,455; Nov. 30; v. 280; p. 856.
Shaw, William F., Denver, Colo. Handpiece. No. 1,354,139; Sept. 28; v. 278; p. 617.
Shaw, William G., assignor to Pittsburgh Plate Glass Company, Creighton, Pa. Sheet-drawing apparatus. No. 1,359,200; Nov. 16; v. 280; p. 494.
Shaw, William S., *et al.* (See Remer, Peter, assignor.)
Shaw, William S., Chicago, Ill. Bark-peeling machine. No. 1,358,993; Nov. 16; v. 280; p. 456.
Shawd, Archie B. (See Willard, H. J., and Shawd.)
Shawinigan Electro-Metals Company. See Nicol, David S., assignor.)
Shawnee Company. (See Worthington, Charles C., assignor.)
Shawnee Mower Company. (See Worthington, Charles C., assignor.)
Shawvan, John M., Janesville, Wis., and H. A. Sholes, Oak Park, Ill. Combined packing and display case. No. 1,335,397; Mar. 30; v. 272; p. 827.
Shay, James M., *et al.* (See Brooks, Samuel A., assignor.)
Shay, James M., assignor to Steel Velour Screen Corporation, Buffalo, N. Y. Picture-screen. No. 1,347,761; July 27; v. 276; p. 659.
Shea, Christopher A., New York, N. Y. Windshield-cleaner. No. 1,345,330; June 29; v. 275; p. 973.
Shea, David J., Marianna, Ark. Spring-wheel. No. 1,348,590; Aug. 3; v. 277; p. 89.
Shea, Dennis, North Adams, Mass. Garden implement. No. 1,334,681; Mar. 23; v. 272; p. 631.
Shea, Francis A. (See Tucker, Frank W., assignor.)
Shea, John J., Hartford, Conn., assignor to The Hartford Rubber Works Company. Treating vulcanizable plastics. No. 1,343,377; June 15; v. 275; p. 462.
Shea, John J., assignor to The Hartford Rubber Works Company, Hartford, Conn. Process and apparatus for producing inert gases. No. 1,356,888; Oct. 26; v. 279; p. 619.
Sheahan, William H., Philadelphia, Pa. Dry battery. No. 1,359,201; Nov. 16; v. 280; p. 494.
Shealy, Leland A., assignor of one-half to J. D. Quattlebaum, Newberry, S. C. Vacuum fuel-feed system. No. 1,362,150; Dec. 14; v. 281; p. 280.
Shean, Thomas P., Chicago, Ill. Well-boring apparatus. No. 1,348,325; Aug. 3; v. 277; p. 39.
Shean, Thomas P., Chicago, Ill. Extractor for well-plugs. No. 1,362,194; Dec. 14; v. 281; p. 289.
Sheard, Titus, Lakewood, and H. E. Wetherbee, Cleveland Heights, assignors to The Dolomite Products Company, Cleveland, Ohio. Refractory material and making same. No. 1,329,484; Feb. 3; v. 271; p. 17.
Shearer, Edward J., Colton, Calif., and M. M. Owens, Lordsburg, N. Mex. Gage-cock. No. 1,346,984; July 20; v. 276; p. 448.
Shearer, Fred B. (See Reedy, Maurice W., assignor.)
Shearer, Frederick C., San Antonio, Tex. Tie-mold. No. 1,331,944; Feb. 24; v. 271; p. 607.
Shearer, George T., Waynesboro, Pa. Attachment for valve mechanism. No. 1,363,060; Dec. 21; v. 281; p. 500.
Shearer, Greer M., assignor of one-half to F. H. Taylor, Chicago, Ill. Automatic controller cut-out. No. 1,362,257; Dec. 14; v. 281; p. 321.
Shearer, Greer M., assignor of one-half to F. H. Taylor, Chicago, Ill. Automatic controller cut-out. No. 1,362,358; Dec. 14; v. 281; p. 321.
Shearer, Joe E., assignor to H. D. Lafferty, Oakland, Cal. Vehicle. No. 1,336,100; Apr. 6; v. 273; p. 75.
Shearer, John A., Henley Beach, assignor of one-third to R. H. Niehuus, St. Peters, and one-third to S. C. Meller, Fulham, South Australia, Australia. Machine for making butter. No. 1,343,091; June 8; v. 275; p. 343.
Shearer, William B., New York, N. Y., assignor to International Torpedo Boat Corporation, Wilmington, Del. Gun-mount for boats. No. 1,353,499; Sept. 21; v. 278; p. 444.
Shearer, William B., Montclair, N. J., assignor to International Torpedo Boat Corporation, Wilmington, Del. Torpedo-boat. No. 1,356,791; Oct. 26; v. 279; p. 600.
Shearer, William B., New York, N. Y., assignor to International Torpedo Boat Corporation, Wilmington, Del. Torpedo-boat and locking and launching mechanism. No. 1,357,526; Nov. 2; v. 280; p. 61.
Shearer, William B., New York, N. Y., assignor to International Torpedo Boat Corporation, Wilmington, Del. Torpedo-boat. No. 1,357,527; Nov. 2; v. 280; p. 61.
Shears, Summer S. (See Lengel, Irvin D., assignor.)
Sheasley, Charles H., Franklin, Pa. Variable gas-port for gas-engines. No. 1,327,927; Jan. 13; v. 270; p. 257.
Sheasley, Charles H., assignor to Franklin Valveless Engine Company, Franklin, Pa. Starting-port for valveless two-cycle internal-combustion engines. No. 1,340,630; Aug. 17; v. 277; p. 418.
Sheboygan Couch Company. (See Meves, C. W., and Herrmann, assignors.)
Sheean, James, Camden, N. J. Notebook and manuscript holder. No. 1,334,264; Mar. 16; v. 272; p. 506.
Sheedy, Patrick. (See Kellogg, D. P., and Sheedy.)
Sheedy, Patrick, assignor of one-third to D. P. Kellogg and one-third to D. Adamson, Los Angeles, Calif. Manufacture of piston-valve locomotive-cylinders. No. 1,334,715; Mar. 23; v. 272; p. 637.
Sheehan, Edward, West Alhambra, Calif. Railway-crossing. No. 1,362,047; Dec. 14; v. 281; p. 260.
Sheehan, Thomas C., Upper Montclair, N. J., assignor to Durham Duplex Razor Company, New York, N. Y. Safety-razor. No. 1,363,362; Dec. 28; v. 281; p. 608.
Sheehan, William M., assignor to Commonwealth Steel Company, St. Louis, Mo. Locomotive front-end frame. No. 1,345,464; July 6; v. 276; p. 27.
Sheehan, William M., assignor to Commonwealth Steel Company, St. Louis, Mo. Front truck for locomotives. No. 1,354,140; Sept. 28; v. 278; p. 617.
Sheehy, William E., East Boston, Mass. Shoe-polisher. No. 1,351,136; Aug. 31; v. 277; p. 818.
Sheen, Milton R., assignor to Tunnel Machine Manufacturing & Engineering Company, Philadelphia, Pa. Building construction. No. 1,336,789; Apr. 13; v. 273; p. 266.
Sheen, Milton R., assignor to Tunnel Machine Manufacturing & Engineering Company, Philadelphia, Pa. Machine for building sewers. No. 1,351,137; Aug. 31; v. 277; p. 818.
Sheet Steel Products Company. (See Baxter, Kenneth S., assignor.)
Sheff, William, New York, N. Y. Ring cluster-mounting. No. 1,362,748; Dec. 21; v. 281; p. 449.
Sheffield Car Company. (See Peter, Alfred, assignor.)
Sheffler, Ira L., Detroit, Mich., assignor to Ira Lee Suction Cleaner Corporation. Vacuum-cleaner. (Reissue. No. 14,786; Jan. 6; v. 270; p. 136.
Shelbley, Edward W., New Washington, Ohio. Valve-tool. No. 1,357,204; Oct. 26; v. 279; p. 680.
Sheldon, Auria T. (See White, H. W., and Sheldon.)
Sheldon, Cecil H., Bacolod, Philippine Islands. Automatic stop mechanism for talking-machines. No. 1,333,782; Mar. 16; v. 272; p. 416.
Sheldon, Edward P., assignor to R. Hoe and Co., New York, N. Y. Delivery mechanism for folded products. No. 1,336,445; Apr. 13; v. 273; p. 199.
Sheldon, Edward P., assignor to R. Hoe and Co., New York, N. Y. Collecting and stapling mechanism. No. 1,343,231; June 15; v. 275; p. 435.
Sheldon, George H., Westerly, R. I. Spinning-spindle. No. 1,338,162; Apr. 27; v. 273; p. 659.
Sheldon, Lucian A., Schenectady, N. Y., assignor to General Electric Company. Flow-meter. No. 1,359,846; Nov. 23; v. 280; p. 668.
Sheldon, Ray W., White City, Kans. Folding and telescoping bed. No. 1,358,027; Nov. 9; v. 280; p. 219.
Sheldon, Samuel B., Duluth, Minn. Ingot-pouring mechanism. No. 1,340,422; May 18; v. 274; p. 466.
Sheldon, Samuel B., Duluth, Minn. Gas-producer. No. 1,350,472; Aug. 24; v. 277; p. 628.
Sheldon, Samuel B., Duluth, Minn. Gas-producer arrangement. No. 1,350,473; Aug. 24; v. 277; p. 628.
Sheldon, Samuel B., Duluth, Minn. Gas-producer. No. 1,350,474; Aug. 24; v. 277; p. 628.
Sheldon, Samuel B., Duluth, Minn. Gas-producer. No. 1,350,475; Aug. 24; v. 277; p. 628.
Sheldrick, Ralph H., assignor to The Chase Companies, Inc., Waterbury, Conn. Electric-lamp fixture. No. 1,363,019; Dec. 21; v. 281; p. 501.
Sheler, John C., and R. B. Austin, Cadillac, Mich. Flexible coupling. No. 1,342,300; June 1; v. 275; p. 135.
Shell Company. (See Trumble, Milon J., assignor.)
Shell Company of California. (See Melschke-Smith, William, assignor.)
Shelley, Edward H., Ridgewood, N. J. Barrel-bung. No. 1,331,083; Feb. 17; v. 271; p. 426.

Digitized by Google

Shellophone Talking Machine Co. (See Poe, Robert L., assignor.)
Shellshear, Wilton. (See Seale, H. V., and Shellshear.)
Shelly, Harry W., Kansas City, Mo. Auto-direction-signal. No. 1,335,033; Mar. 30; v. 272; p. 759.
Shelton, A. K. (See Key, Lee H., assignor.)
Shelton, Benjamin, *et al.* (See Donada, Benito J., assignor.)
Shelton, Carl L., Greenfield, Tenn., assignor of one-half to Vermont Box Company, Bristol, Vt. Cover-fastener for boxes. No. 1,328,302; Jan. 20; v. 270; p. 364.
Shelton, Cleveland H., Atlanta, Ga. Straw-dispenser. No. 1,358,884; Nov. 16; v. 280; p. 436.
Shelton, Clough W., Floyd county, Ga. Nut-lock. No. 1,349,696; Aug. 17; v. 277; p. 431.
Shelton, Harry J., St. Louis, Mo. Hammer mounting for pulverizers and the like. No. 1,347,717; July 27; v. 276; p. 649.
Shelton, Harry J., St. Louis, Mo. Grinder and shredder. No. 1,357,190; Oct. 26; v. 279; p. 677.
Shelton, James, Knoxville, Tenn. Valve-stem stuffing-box. No. 1,352,548; Sept. 14; v. 278; p. 196.
Shelton, John B., San Francisco, Calif. Adjustable deck-support for cars. No. 1,349,735; Aug. 17; v. 277; p. 439.
Shelton, Lawson B., Los Angeles, Calif. Hinge. No. 1,334,563; Mar. 23; v. 272; p. 610.
Shelton, R. Roy, Chattanooga, Tenn. Spark-plug cleaner. No. 1,330,768; Feb. 10; v. 271; p. 297.
Shelton, Reuben, Carmi, Ill. Boiler-flue. No. 1,330,910; Feb. 17; v. 271; p. 393.
Shelton, Walter M., South Richmond, Va. Closure releasing means for jars. No. 1,351,804; Aug. 31; v. 277; p. 852.
Shelton, William, New York, N. Y. Torpedo-controlling mechanism. No. 1,346,264; July 13; v. 276; p. 247.
Shelton, William G., New York, N. Y. Phonograph-motor. No. 1,350,571; Aug. 24; v. 277; p. 647.
Shelton, William G., New York, N. Y. Power-driven implement for cutting hair or the like. No. 1,361,916; Dec. 14; v. 281; p. 234.
Shely, William A., Chicago, Ill. Machine for treating or breaking and scutching hemp or other fibrous material. No. 1,342,771; June 8; v. 275; p. 280.
Shely, William A., Chicago, Ill. Machine for breaking and scutching hemp or other fibrous material. No. 1,342,772; June 8; v. 275; p. 280.
Shenk, Francis D. (See Holman, R. H., and Shenk.)
Shenk, Robert R. (See Smith, A., and Shenk.)
Shepard, George V., Elmwood, Conn. Cotter-pin extractor. No. 1,355,174; Oct. 12; v. 279; p. 197.
Shepard, James P., Elizabeth, assignor of one-half to W. P. Egan, Parkersburg, W. Va. Rotary engine. No. 1,332,522; Mar. 2; v. 272; p. 67.
Shepard, John, Pittsburgh, Pa. Rail-joint. No. 1,348,244; Aug. 3; v. 277; p. 23.
Shepard, Stanley J., Porterville, Calif. Means for securing heads to handles of tools. No. 1,342,929; June 8; v. 275; p. 311.
Shepard, Victor J., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Resilient driving connection. No. 1,362,048; Dec. 14; v. 281; p. 260.
Shepard, Wilbur L., Elmwood, assignor to The World Gas Engine Company, Hartford, Conn. Hydrocarbon-engine. No. 1,347,762; July 27; v. 276; p. 659.
Shepelevich, Samuel, Brooklyn, N. Y. Renewable heel. No. 1,355,921; Oct. 19; v. 279; p. 382.
Sheperdson, John W., assignor to Morgan Construction Company, Worcester, Mass. Method of and apparatus for rolling metal. No. 1,347,917; July 27; v. 276; p. 689.
Sheperdson, John W., assignor to Morgan Construction Company, Worcester, Mass. Conveying mechanism. No. 1,352,766; Sept. 14; v. 278; p. 240.
Shephard, James, Detroit, Mich. Vacuum gasolene feed-tank. No. 1,358,118; Nov. 9; v. 280; p. 237.
Shephard, Samuel T., Albany, N. Y. Display-stand. No. 1,351,007; Aug. 24; v. 277; p. 730.
Shepherd, Frank D., Salt Lake City, Utah. Puppet-valve. No. 1,329,809; Feb. 3; v. 271; p. 86.
Shepherd, Frank D., Salt Lake City, Utah. Puppet-valve for internal-combustion engines. No. 1,330,044; Feb. 3; v. 271; p. 130.
Shepherd, Frank D., Salt Lake City, Utah. Puppet-valve for gas-engines. No. 1,330,045; Feb. 3; v. 271; p. 130.
Shepherd, Frank D., Aurora, Ill. Puppet-valve for internal-combustion engines. No. 1,331,826; Feb. 24; v. 271; p. 585.
Shepherd, George W., Tuckerton, N. J. Adjustable bight-holding attachment for cords. No. 1,356,316; Oct. 19; v. 279; p. 461.
Shepherd, Harry. (See Cardall, Richard R., assignor.)
Shepherd, Harry. (See Cordall, Richard R., assignor.)
Shepherd, Judson O., Atlanta, Ga. Gear-shift. No. 1,360,035; Nov. 23; v. 280; p. 706.
Shepherd, Oliver J., New York, N. Y. Puzzle. No. 1,336,541; Apr. 13; v. 273; p. 218.
Sheppard, Albert K., Port Moody, British Columbia, Canada. Jar-lifter. No. 1,348,059; July 27; v. 276; p. 718.
Sheppard, Clarence D., Milwaukee, Wis. Anchor and support for concrete-road forms. No. 1,348,060; July 27; v. 276; p. 719.
Sheppard, Elisha T., Stonega, Va. Adjustable shade and curtain-pole supporting bracket. No. 1,351,697; Aug. 31; v. 277; p. 929.
Sheppard, Joel F., 2d, and W. D. Fletcher, Dover, N. H. Woodworking-machine. No. 1,350,341; Aug. 24; v. 277; p. 601.
Sheppard, John R., assignor to The Dentists' Supply Company, New York, N. Y. Artificial tooth. No. 1,354,515; Oct. 5; v. 279; p. 13.
Sheppard, Samuel E., assignor to Eastman Kodak Company, Rochester, N. Y. Purifying and washing process. No. 1,357,733; Nov. 2; v. 280; p. 101.
Sheppard, Teaford C., South Richmond, Va. Mail-bag. No. 1,354,581; Oct. 5; v. 279; p. 27.
Sheras, Morris, Chicago, Ill. Time-stamp. No. 1,332,959; Mar. 9; v. 272; p. 202.
Sheras, Morris, Chicago, Ill. Time-stamp. No. 1,332,960; Mar. 9; v. 272; p. 202.
Sherbondy, Earl H., Cleveland, Ohio. Turbo-compressor mounting. No. 1,329,480; Feb. 3; v. 271; p. 26.
Sherbondy, Earl H., Cleveland, Ohio. Automatic control for turbo-compressors. No. 1,346,563; July 13; v. 276; p. 306.
Sherbondy, Earl H., Cleveland, Ohio. Supercharging device for turbo-compressors. No. 1,346,564; July 13; v. 276; p. 306.
Sherbondy, Earl H., Cleveland, Ohio. Turbine-control housing. No. 1,346,565; July 13; v. 276; p. 306.
Sherburne, Charles H. (See Bridgham, Arthur L., assignor.)
Sheridan Iron Works, *et al.* (See Bredenberg, Alfred, assignor.)
Sheridan, T. W., and C. B., Company, *et al.* (See Bredenberg, Alfred, assignor.)
Sheridan, Thomas F., *et al.* (See Hien, Phillip, assignor.)
Sherlock, Charles B., and J. B. Morse, Washington, D. C. Cutter. No. 1,340,800; May 18; v. 274; p. 537.
Sherman, Chester E., Anoka, Minn., assignor, by mesne assignments, to himself, L. A. Sherman, and H. E. Sherman, Jackson county, Mo. Cartridge-case. No. 1,330,144; Feb. 10; v. 271; p. 181.
Sherman, Chester E., assignor to R. W. Coleman, Kansas City, Mo. Spark-plug. No. 1,331,282; Feb. 17; v. 271; p. 462.
Sherman, Cortis F., Hartford, Conn., assignor to Hess-Bright Manufacturing Company, Philadelphia, Pa. Expanding arbor. No. 1,346,917; July 20; v. 276; p. 435.
Sherman, Elmer E. (See Ellis, W. M., and Sherman.)
Sherman, Frank A., and J. M. Hall, Hamilton, Ontario, Canada. Method and apparatus for making shell-forgings. No. 1,347,415; July 20; v. 276; p. 533.
Sherman, Frank C., Alden, N. Y. Automatic door lock and opener. No. 1,334,805; Mar. 23; v. 272; p. 655.
Sherman, Harry E., *et al.* (See Sherman, Chester E., assignor.)
Sherman, Harry E., *et al.* (See Sherman, Louie A., assignor.)
Sherman, Harry L., assignor of one-third to A. D. Mulvey and one-third to W. I. Irwin, San Diego, Calif. Tractor. No. 1,357,528; Nov. 2; v. 280; p. 62.
Sherman, Howard B. (See Hofmann, William G., assignor.)
Sherman, Howard B., Battle Creek, Mich. Electrical connector. No. 1,352,032; Sept. 7; v. 278; p. 62.
Sherman, Howard B., Battle Creek, Mich. Making connectors. No. 1,352,034; Sept. 7; v. 278; p. 62.
Sherman, Howard B., and F. D. Maltby, said Maltby assignor to said Sherman, Battle Creek, Mich. Electrical connection for spark-plugs, &c. No. 1,352,033; Sept. 7; v. 278; p. 62.
Sherman, Howard B., and F. D. Maltby, Battle Creek, Mich.; said Maltby assignor to said Sherman. Spring clasping terminal for electric connectors. No. 1,352,092; Sept. 7; v. 278; p. 73.
Sherman, Joe. (See Longo, Frank E., assignor.)
Sherman, John A. (See McCallum, Edgar, assignor.)
Sherwood, John K. (See Fortier, J. J., and Sherwood.)
Sherman, John Q., *et al.* (See Buschmeyer, Clarence R., assignor.)
Sherman, L. A., *et al.* (See Sherman, Chester E., assignor.)
Sherman, Lawrence F., trustee. (See Prud'homme, Hippolyte M., assignor.)
Sherman, Louie A., assignor of one-fourth to H. E. Sherman and one-half to O. K. Herndon, Kansas City, Mo. Vulcanizing-material-containing package. No. 1,356,662; Oct. 26; v. 279; p. 575.
Sherman, M. C., Cynwyd, and F. B. Allen, Ben Avon, Pa., assignors to The Baker Dunbar-Allen Company, Cleveland, Ohio. Ash-gate. No. 1,360,805; Nov. 30; v. 280; p. 925.
Sherman, Samuel C., Anacortes, Wash. Beverage-mixer. No. 1,345,263; June 29; v. 275; p. 960.
Sherman, Walter F., Albany, N. Y. Article-carrier. No. 1,353,858; Sept. 28; v. 278; p. 559.
Sherman, William C., *et al.* (See Buschmeyer, Clarence R., assignor.)

Digitized by Google

Sherman, William T., Troy, assignor to Henry T. Hughes Co. Inc., New York, N. Y. Apparatus for inserting bristles in rubber pads. No. 1,355,278; Oct. 12; v. 279; p. 217.

Sherman, Willis S., Milwaukee, Wis. End-matcher. No. 1,338,704; May 4; v. 274; p. 11.

Sherrard, J. H., Manufacturing Company, The. (See Coopersmith, Rudolph, assignor.)

Sherrod, William H., Seattle, Wash. Soil-pulverizer. No. 1,328,800; Jan. 20; v. 270; p. 458.

Sherry, Sol C., West Englewood, N. J. Non-slip attachment. No. 1,359,439; Nov. 16; v. 280; p. 542.

Sherry, Sol C., West Englewood, N. J. Antiskid attachment. No. 1,360,806; Nov. 30; v. 280; p. 925.

Sherrod, William H., Seattle, Wash. Soil-pulverizer. No. 1,349,858; Aug. 17; v. 277; p. 462.

Sherwen, Peter, assignor of one-half to H. E. Sands, Vancouver, British Columbia, Canada. Air-regulator for ventilators or heaters. No. 1,343,162; June 8; v. 275; p. 357.

Sherwin, Frank, Brookings, S. D. Agricultural implement. No. 1,341,724; June 1; v. 275; p. 22.

Sherwin, Frank, Brookings, S. D. Seed-drill. No. 1,352,482; Sept. 14; v. 278; p. 183.

Sherwin-Williams Company. (See Holton, Edward C., assignor.) (Reissue.)

Sherwood, Lewis M. (See Daniels, Edward T., assignor.)

Sherwood, Matthew M., Scranton, Pa. Hoof-pad. No. 1,357,909; Nov. 2; v. 280; p. 135.

Sherwood, Nathan E., Highland Park, Mich. Rope. No. 1,331,679; Feb. 24; v. 271; p. 557.

Sherwood, Nathan E., Highland Park, Mich. Wire-hanger. No. 1,331,680; Feb. 24; v. 271; p. 557.

Sherwood, Starr K., Seattle, Wash. Duplex propeller. No. 1,330,145; Feb. 10; v. 271; p. 181.

Sherwood, Truman C., Watseka, Ill. Store-front construction. No. 1,334,806; Mar. 23; v. 272; p. 655.

Sherwood, Walter I., Yakima, Wash. Sign. No. 1,329,635; Feb. 3; v. 271; p. 54.

Sherwood, William E., assignor to Watson Products Corporation, Canastota, N. Y. Hand-sled. No. 1,330,095; Feb. 10; v. 271; p. 172.

Sherwood, William E., assignor to Watson Products Corporation, Canastota, N. Y. Vehicle-wheel. No. 1,330,096; Feb. 10; v. 271; p. 172.

Shevlin, George F., assignor to Northern New York Foundry & Machine Co. Inc., Glens Falls, N. Y. Centrifugal pulp-screen. No. 1,331,587; Feb. 24; v. 271; p. 540.

Shewalter, Clarence E., Springfield, Ohio. Supporting-stand. No. 1,363,020; Dec. 21; v. 281; p. 501.

Shibley, Alice P. (See Shibley, George H., assignor.)

Shibley, George H., assignor to A. P. Shibley, Washington, D. C. Puttee. No. 1,332,472; Mar. 2; v. 272; p. 57.

Shields, Edward, deceased; Braddock Trust Co., Braddock, Pa., administrator. Loose-leaf binder. No. 1,331,588; Feb. 24; v. 271; p. 540.

Shields, George F., assignor of one-fourth to H. E. Shiner, one-fourth to J. P. Berne, and one-fourth to L. E. Wright, Los Angeles, Calif. Carbureter attachment. No. 1,347,297; July 20; v. 276; p. 509.

Shields, Harrison, Fort Dodge, Iowa. Sink-fitting. No. 1,356,564; Oct. 26; v. 279; p. 555.

Shields, Herbert F. H., Welling, and J. P. Roe, London, assignors to Ropeways Limited, London, England. Aerial ropeway. No. 1,347,763; July 27; v. 276; p. 659.

Shields, John M., assignor to F. H. Noble & Company, Chicago, Ill. Spring-hinge. No. 1,327,065; Jan. 6; v. 270; p. 35.

Shields, Mark M., Republic, Wash. Trap. No. 1,340,801; May 18; v. 274; p. 537.

Shierk, Eli E. (See Stott, F. R. L., and Shierk.)

Shiffer, Warren L., and P. K. Shnyder, Williamsport, Pa. Pivoted link. No. 1,353,134; Sept. 14; v. 278; p. 312.

Shigley, Alfred R., trustee. (See del Solar, Aristides, assignor.)

Shigley, Cyrus C., Grand Rapids, assignor to Electric Phonograph Co., Kalamazoo, Mich. Reproducer. No. 1,340,298; May 18; v. 274; p. 442.

Shigon, Nathan A., New York, N. Y. Skiascope. No. 1,351,220; Aug. 31; v. 277; p. 835.

Shigon, Nathan A., New York, N. Y. Optical instrument. No. 1,351,221; Aug. 31; v. 277; p. 835.

Shilling, Wade, Troy, Ohio. Arm-support for embalming purposes. No. 1,331,879; Feb. 24; v. 271; p. 596.

Shillito, James T., St. Louis, assignor to Loose Wiles Biscuit Company, Kansas City, Mo. Cake-cutting machine. No. 1,342,875; June 8; v. 275; p. 301.

Shiloff, Gennady G., New York, N. Y. Mechanical burglar-alarm. No. 1,348,878; Aug. 3; v. 277; p. 49.

Shimer, Elmer S., assignor to Samuel J. Shimer & Sons, Inc., Milton, Pa. Cutter-head. No. 1,348,753; Aug. 3; v. 277; p. 119.

Shimer, Samuel J., & Sons. (See Shimer, Elmer S., assignor.)

Shimizu, Hobson S., assignor to Roberts & Schaefer Company, Chicago, Ill. Coal-handling plant. No. 1,335,531; Mar. 30; v. 272; p. 851.

Shimizu, Hobson S., assignor to Roberts & Schaefer Company, Chicago, Ill. Apparatus for handling coal. No. 1,355,512; Oct. 12; v. 279; p. 263.

Shimizu, Yoshi, New York, N. Y. Tire-chain fastener. No. 1,336,383; Apr. 6; v. 273; p. 128.

Shimocuskies, Joseph S., Pottsville, Pa. Lock. No. 1,358,885; Nov. 16; v. 280; p. 436.

Shimp, William A., Minneapolis, Minn. Valve. No. 1,338,705; May 4; v. 274; p. 11.

Shimp, William A., Minneapolis, Minn. Valve. No. 1,354,582; Oct. 5; v. 279; p. 27.

Shiner, Albert E., London, England. Rotary pump. No. 1,340,632; May 18; v. 274; p. 506.

Shiner, Elliott E., San Antonio, Tex. Reinforced belt. No. 1,360,456; Nov. 30; v. 280; p. 856.

Shiner, Harold E., *et al.* (See Shields, George F., assignor.)

Shinn, Bessie. (See Shinn, Lita and B.)

Shinn, Charles. (See Shinn, William, assignor.)

Shinn, Edmund W., *et al.*, administrators. (See Shinn, Joseph A.)

Shinn, George C., Vancouver, Wash. Heater for intake-manifolds. No. 1,343,092; June 8; v. 275; p. 343.

Shinn, Joseph A., deceased, Greenville, Pa.; M. E. Shinn administratrix; E. W. Shinn and M. E. Shinn, administrators of said M. E. Shinn, deceased. Cement. No. 1,334,272; Mar. 16; v. 272; p. 508.

Shinn, Lita and B., Muskogee, Okla. Hand-painted rag doll. No. 1,327,884; Jan. 13; v. 270; p. 249.

Shinn, Mary E., administratrix. (See Shinn, Joseph A.)

Shinn, Mary E., *et al.*, administrators. (See Shinn, Joseph A.)

Shinn, William, assignor of one-half to C. Shinn, Grandin, Mo. Locomotive-boiler. No. 1,328,303; Jan. 20; v. 270; p. 364.

Shiomi, Tsutomu, Tokyo Fu, Japan, assignor to Furukawa Gomei Kaisha, Tokyo, Japan. Reducing sulfur dioxid. No. 1,359,114; Nov. 16; v. 280; p. 478.

Shipley, Bernis M., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,360,151; Nov. 23; v. 280; p. 728.

Shipley Construction and Supply Company. (See Stair, William S., assignor.)

Shipley, Thomas, York, Pa. Air-blowing fitting with internal cleaning-wire. No. 1,331,283; Feb. 17; v. 271; p. 462.

Shipley, Thomas, York, Pa. Apparatus for the manufacture of ice. No. 1,356,317; Oct. 19; v. 279; p. 461.

Shipman, Bennet C., San Francisco, Calif. Pipe-joining device. No. 1,352,767; Sept. 14; v. 278; p. 241.

Shipman, Charles H., San Francisco, Calif. Automobile signaling device. No. 1,331,531; Feb. 24; v. 271; p. 529.

Shipman, Charles H., San Francisco, Calif. Operating means for direction-indicators. No. 1,339,071; May 4; v. 274; p. 79.

Shipman, Lewis H., *et al.* (See Griffin, Patrick J., assignor.)

Shipp, Clarence C., Indianapolis, Ind. Roof-ventilator joint. No. 1,336,590; Apr. 13; v. 273; p. 227.

Shippen, Charles S., Tipperary, Wyo. Wire-stretcher. No. 1,349,108; Aug. 10; v. 277; p. 241.

Shippert, Warren A., Chicago, Ill. Milking-machine for cows. No. 1,349,441; Aug. 10; v. 277; p. 308.

Shippert, Warren A., Chicago, Ill. Stripping device for milking-machines. No. 1,351,798; Sept. 7; v. 278; p. 16.

Shippey, William M., *et al.* (See Kirkpatrick, Monroe C., assignor.)

Shipton, James D., Vancouver, British Columbia, Canada. Electric iron-ore-smelting furnace. No. 1,338,103; Apr. 27; v. 273; p. 659.

Shipton, James D., Vancouver, British Columbia, Canada. Zinc-reduction furnace. No. 1,353,362; Sept. 21; v. 278; p. 417.

Shircliffe, Arthur J., Norwood, Ohio. Automatic franking-machine. No. 1,340,987; May 25; v. 274; p. 644.

Shirer, George A., Pittsburgh, Pa. Artificial hand. No. 1,344,357; June 22; v. 275; p. 720.

Shires, George M., Houston, Tex. Apparatus for extracting minerals from ores. No. 1,328,210; Jan. 13; v. 270; p. 311.

Shirk, Gothholt, Columbus, Ohio. Fluid-clutch. No. 1,360,807; Nov. 30; v. 280; p. 925.

Shirkey, Martha E., Bew, Mont. Can-lifter. No. 1,363,928; Dec. 28; v. 281; p. 718.

Shirley, Henry K., deceased, Marianna, Fla.; M. Shirley, administratrix. Collapsible shipping box or crate. No. 1,345,264; June 29; v. 275; p. 960.

Shirley, Mattie, administratrix. (See Shirley, Henry K.)

Shirley, Rufus S., Crete, Nebr. Undergarment. No. 1,364,002; Dec. 28; v. 281; p. 732.

Shirley, William A., Fort Worth, Tex. Auxiliary door-lock. No. 1,332,473; Mar. 2; v. 272; p. 57.

Shirley, William W., Pittsburgh, Pa. Adjustable gripping-tool. No. 1,347,764; July 27; v. 276; p. 660.

Shively, Greene, Millmont, Pa. Article-holder. No. 1,344,728; June 29; v. 275; p. 857.

Shively, John J., Brookville, Pa. Device to prevent overwinding springs. No. 1,355,703; Oct. 12; v. 279; p. 299.

Shivers, Clifford H. (See Ballinger, W. F., and Shivers.)

Shivers, Paul F., Fort Wayne, Ind., assignor to General Electric Company. Circuit-controlling device. No. 1,357,734; Nov. 2; v. 280; p. 101.

Digitized by Google

Shivers, Robert H., Atlanta, Ga. Automatic director for headlights. No. 1,348,061; July 27; v. 276; p. 719.
Shivley, Lewis D., Kokomo, Ind. Compound. No. 1,344,658; June 29; v. 275; p. 845.
Shkor, John, Sparrows Point, Md. Combination chair and sofa. No. 1,349,227; Aug. 10; v. 277; p. 265.
Shnyder, Peter K. (See Shiffer, W. L., and Shnyder.)
Shodron, John G., assignor to James Manufacturing Company, Fort Atkinson, Wis. Feed-trough for pigs and other animals. No. 1,328,970; Jan. 27; v. 270; p. 520.
Shoe, C. W., Manufacturing Company. (See Williams, David S., assignor.)
Shoe Hardware Company, The. (See Rutherford, Eugene W., assignor.)
Shoeld, Mark, assignor to Armour Fertilizer Works, Chicago, Ill. Production of aluminum nitrid and the like. No. 1,344,153; June 22; v. 275; p. 679.
Shoemaker, Alvin H., Seattle, Wash. Demountable-rim vehicle-wheel. No. 1,354,221; Sept. 28; v. 278; p. 633.
Shoemaker, George W., Dalton, Pa. Washboard. No. 1,339,292; May 4; v. 274; p. 118.
Shoemaker, George W., Dalton, Pa. Washboard. No. 1,353,792; Sept. 21; v. 278; p. 502.
Shoemaker, Jeremiah J., Akron, Ohio. Towel-hanger. No. 1,331,589; Feb. 24; v. 271; p. 540.
Shoemaker, Jeremiah J., and C. C. Cox, Akron, Ohio. Manufacturing tire inner tubes. No. 1,341,247; May 25; v. 274; p. 694.
Shoemaker, Richard W., Alameda, Calif., assignor, by mesne assignments, to National Suspended Monorail Company. Grooved rail for monorail-railways. No. 1,355,800; Oct. 12; v. 279; p. 317.
Shoemaker, Richard W., Seattle, Wash., assignor to National Suspended Monorail Company. Suspended monorail system. No. 1,355,801; Oct. 12; v. 279; p. 317.
Shoemaker, Robert J. (See MacFarland, H. B., and Shoemaker.)
Shoemaker, Robert J., Milwaukee, Wis. Plating metal articles. No. 1,330,399; Feb. 10; v. 271; p. 228.
Shoemaker, Robert J., Topeka, Kans. Bearing element and manufacturing same. No. 1,341,938; June 1; v. 275; p. 64.
Shoemaker, Samuel M. (See Patten, John, assignor.)
Shoenberg, Milton H., San Francisco, Calif. Combined sight-gage and valve. No. 1,346,725; July 13; v. 276; p. 337.
Shoffstall, Hugh F. (See Demarest, C. S., and Shoffstall.)
Shogran, Leonard, Chicago, Ill. Display-fixture. No. 1,358,792; Nov. 16; v. 280; p. 417.
Shogran, Leonard, Indianapolis, Ind., assignor of one-half to C. H. Feltman, Chicago, Ill. Display-fixture. No. 1,333,042; Mar. 9; v. 272; p. 217.
Shogren, Charles A., Chicago, Ill. Metal-frame screen. No. 1,344,093; June 22; v. 275; p. 668.
Sholes, Harry A. (See Shawvan, J. M., and Sholes.)
Sholl, Max S., Chicago, Ill. Deposit and collection receptacle. No. 1,350,742; Aug. 24; v. 277; p. 680.
Shomaker, George E., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,355,917; Oct. 19; v. 279; p. 381.
Shomberg, Albert F. (See Riggin, Henry H., assignor.)
Shondell, William H., assignor to M. W. Canfield, Napoleon, Ohio. Antirattler for automobiles. No. 1,330,285; Feb. 10; v. 271; p. 207.
Shoner, John, assignor to The Chase Companies, Inc., Waterbury, Conn. Making installation-loops for electric fixtures. No. 1,342,071; June 1; v. 275; p. 90.
Shong, Carl F., Wichita, Kans. Direction-indicator. No. 1,340,988; May 25; v. 274; p. 644.
Shongo, Daniel E., Lake Katrine, N. Y. Refrigerator or like receptacle. No. 1,343,688; June 15; v. 275; p. 523.
Shonk, Charles W., Company. (See Holloway, William M., assignor.)
Shonnard, Clarence M. (See Shonnard, Harold W., assignor.)
Shonnard, Harold W., Upper Montclair, assignor of one-half to C. M. Shonnard, Ridgewood, N. J. Automobile torpedo. No. 1,360,036; Nov. 23; v. 280; p. 706.
Shonnard, Harold W., Upper Montclair, assignor of one-half to C. M. Shonnard, Ridgewood, N. J. Automobile torpedo. No. 1,360,037; Nov. 23; v. 280; p. 706.
Shont, Levon S., New York, N. Y. Bath-strap. No. 1,334,716; Mar. 23; v. 272; p. 638.
Shook, David A., Ransom, Pa. Starting device. No. 1,333,998; Mar. 16; v. 272; p. 457.
Shook, Jennie M., Phoenix, Ariz. Cream-separating milk-bottle. No. 1,348,062; July 27; v. 276; p. 719.
Shook, Roy B., Dayton, Ohio. Pipe-wrench. No. 1,342,356; June 1; v. 275; p. 145.
Shoop, Milo G. (See Masters, V. H., and Shoop.)
Shoopman, Andrew, Vera, Tex. Quick-adjustable wrench. No. 1,344,154; June 22; v. 275; p. 679.
Shore, Albert F., New York, N. Y. Picture-display machine. No. 1,331,284; Feb. 17; v. 271; p. 462.
Shore, Oscar N., University Place, Nebr. Hand-vise. No. 1,334,971; Mar. 30; v. 272; p. 747.
Shore, William E., New York, N. Y. Vacuum-pump for player-pianos. No. 1,356,496; Oct. 19; v. 279; p. 494.
Shorey, John A., New York, N. Y., assignor to General Electric Company. Apparatus for calibrating U-tubes for flow-meters and the like. No. 1,337,969; Apr. 20; v. 273; p. 564.
Shorrock, James L. (See Kenyon, W. H., and Shorrock.)
Short, Charles R., Detroit, Mich. Clutch mechanism. No. 1,345,897; July 6; v. 276; p. 112.
Short, Charles R., assignor to General Motors Company, Detroit, Mich. Pulley or the like. No. 1,330,911; Feb. 17; v. 271; p. 393.
Short, Charles R., assignor to General Motors Company, Detroit, Mich. Gear-shifting lever. No. 1,330,912; Feb. 17; v. 271; p. 398.
Short, Charles R., assignor to General Motors Company, Detroit, Mich. Valve-actuating device for hydrocarbon-motors. No. 1,330,913; Feb. 17; v. 271; p. 394.
Short, Charles R., assignor to General Motors Company, Detroit, Mich. Motor-vehicle. No. 1,335,989; Apr. 6; v. 273; p. 54.
Short, Charles R., assignor to General Motors Company, Detroit, Mich. Hydrocarbon-motor. No. 1,335,990; Apr. 6; v. 273; p. 54.
Short, Charles R., and A. L. Cash, Detroit, Mich. Method and apparatus for making valves for internal-combustion engines. No. 1,335,862; Apr. 6; v. 273; p. 30.
Short, Charley, Courtney, Mo. Flag-staff and support therefor. No. 1,349,921; Aug. 17; v. 277; p. 473.
Short, David S., Indianapolis, Ind. Spark-plug. No. 1,335,762; Apr. 6; v. 273; p. 11.
Short, Ira J., Archbold, Ohio. Self-adjustable wrench. No. 1,332,922; Mar. 9; v. 272; p. 194.
Short, Samuel B., Humboldt, Tenn. Adjustable bulkhead for freight-cars. No. 1,327,634; Jan. 13; v. 270; p. 202.
Short, Thomas. (See Spencer, H. B., Short, and Derocher.)
Shortell, William H., West Haven, Conn., assignor to Harlem Contracting Company, New York, N. Y. Block-press. No. 1,336,164; Apr. 6; v. 273; p. 87.
Shotter, George F. (See Murray, E. T. R., and Shotter.)
Shotwell, Alfred H., Chicago, Ill. Waterproof package and making same. No. 1,331,590; Feb. 24; v. 271; p. 541.
Shotwell, Marcus A., Miami, Fla. Tire cover or protector. No. 1,352,093; Sept. 7; v. 278; p. 73.
Shoultz, Fred R., Lansing, Mich. Chick-feeder. No. 1,343,093; June 8; v. 275; p. 344.
Shoup, Clement A., Toledo, Ohio. Endless razor-strop and cabinet. No. 1,344,522; June 22; v. 275; p. 753.
Shoup, Stephen E., Kansas City, and D. Fairbank, St. Louis, Mo., assignors to Elliott Frog & Switch Company, East St. Louis, Ill. Railway-switch. No. 1,330,914; Feb. 17; v. 271; p. 394.
Shover, Lamar H., assignor to Panay Horizontal Show Jar Co., Milwaukee, Wis. Display means for transparent containers. No. 1,329,861; Feb. 3; v. 271; p. 97.
Showalter, Jay B. F. (See Myers, John S., assignor.)
Showalter, Jay B. F., Pekin, Ill. Adjustable roof-bracket. No. 1,341,597; May 25; v. 274; p. 762.
Showers, Ernest S., Calumet, Mich. Propeller. No. 1,327,066; Jan. 6; v. 270; p. 35.
Shrader, Ethel, Salina, Kans. Dress-shield supporter. No. 1,348,754; Aug. 3; v. 277; p. 120.
Shrader, James E., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Diffusion-pump. No. 1,330,556; Feb. 10; v. 271; p. 258.
Shrader, James E., Edgewood, Pa., assignor to Westinghouse Electric and Manufacturing Company. Gage for low pressures. No. 1,346,427; July 13; v. 276; p. 279.
Shrader, James E., Edgewood, Pa., assignor to Westinghouse Electric and Manufacturing Company. Mercury-manometer. No. 1,346,428; July 13; v. 276; p. 279.
Shrauger, Adelia G., Odanah, Wis. Pump-drain. No. 1,334,408; Mar. 23; v. 272; p. 580.
Shrauger, Adelia G., Odanah, Wis. Jar-lifter. No. 1,353,282; Sept. 21; v. 278; p. 401.
Shredded Wheat Company, The. (See Anderson, George M., assignor.)
Shreibman, Abram, Keokuk, Iowa, assignor of one-third to J. L. Baldon and one-third to J. E. Sellers, Evanston, Ill. Radiator. No. 1,329,256; Jan. 27; v. 270; p. 573.
Shreiner, Elmer E., Brooklyn, N. Y. Hinge for eyeglass or spectacle frames. No. 1,342,973; June 8; v. 275; p. 320.
Shrigley, Alfred R., trustee. (See del Solar, Aristides, assignor.)
Shriver, Harry T. (See Atkins, Earl F., assignor.)
Shriver, Harry T., Llewellyn Park, West Orange, N. J. Filter-press. No. 1,342,829; June 8; v. 275; p. 292.
Shriver, William J., Milwaukee, Wis., and C. K. Heasley, Chicago, Ill. Tire-retreading form and constructing same. No. 1,330,958; Feb. 17; v. 271; p. 403.
Shropshire, George W., Branch, and T. B., Peterpender, Ark. Spring-wheel. No. 1,337,569; Apr. 20; v. 273; p. 488.
Shropshire, Thomas B. (See Shropshire, George W., and [illegible])
Shrum, Peter J., Monaca Heights, assignor to Colona Manufacturing Company, Pittsburgh, Pa. Thread protector and making same. No. 1,347,765; July 27; v. 276; p. 660.

Digitized by Google

Shuey, Philip M., assignor of one-fourth to Savannah Chemical Company and one-fourth to F. I. Gibson, Savannah, Ga. Process and product of making fertilizer material. No. 1,341,598; May 25; v. 274; p. 762.

Shuff, John, Waukesha, Wis. Woodworking sticker or molder-head. No. 1,353,616; Sept. 21; v. 278; p. 468.

Shuford, Carl H., Dallas, Tex. Igniting device. No. 1,347,718; July 27; v. 276; p. 650.

Shukites, Mike, Jr., Johnston City, Ill. Trolley control. No. 1,350,243; Aug. 17; v. 277; p. 536.

Shuler, Andrew F., Arcanum, Ohio. Brooder. No. 1,346,688; July 13; v. 276; p. 330.

Shull, Leo W., assignor to The Allen Filter Company, Toledo, Ohio. Filtering compound. No. 1,336,591; Apr. 13; v. 273; p. 227.

Shulters, Ralph W., Battle Creek, Mich. Collapsible container. No. 1,345,511; July 6; v. 276; p. 36.

Shumaker, Louis W. (See Delany, P. B., and Shumaker, assignors.)

Shuman, C. S., and S. S. Hansen, assignors to Vacuum Muffler Corporation of America, New York, N. Y., a Corporation of New York. Muffler for steam and gas engines. No. 1,351,698; Aug. 31; v. 277; p. 929.

Shuman, Cleo G., assignor to Gyp Steel Products Company, Chicago, Ill. Means for fastening plaster-boards and the like. No. 1,327,741; Jan. 13; v. 270; p. 222.

Shuman, Frank G., Chicago, Ill. Tag-holder. No. 1,347,233; July 20; v. 276; p. 496.

Shuman, Victor, assignor to The Super-Glass company, Philadelphia, Pa. Wire-glass. No. 1,355,625; Oct. 12; v. 279; p. 284.

Shumate, Joseph W., Minneapolis, Minn. Mousetrap. No. 1,354,700; Oct. 5; v. 279; p. 51.

Shurloc Elevator Safety Co. Inc. (See Dunford, William T., assignor.)

Shurloc Elevator Safety Company. (See Mortensen, Jens, assignor.)

Shurnuff Manufacturing Company. (See Dean, Clark A., assignor.)

Shurtleff, Wilfred, Moline, Ill. Fuel feeding and mixing device for gas-engines. No. 1,338,104; Apr. 27; v. 273; p. 659.

Shurtleff, Wilfred, assignor to Moline Heat, Moline, Ill. Heating and ventilating unit. No. 1,332,923; Mar. 9; p. 272; p. 194.

Shurtleff, Wilfred, assignor to Moline Heat, Moline, Ill. Heating and ventilating unit. No. 1,358,181; Nov. 9; v. 280; p. 249.

Shute, Frederick W., Amesbury, Mass. Container for volatile liquids. No. 1,345,965; July 6; v. 276; p. 126.

Shute, John W., Bishop, Calif. Rim contractor or expander. No. 1,351,406; Aug. 31; v. 277; p. 672.

Shutterly, Acallious E., Indianapolis, Ind. Measuring spoon or dipper. No. 1,346,591; Aug. 3; v. 277; p. 90.

Shutterly, Acallious E., Indianapolis, Ind., assignor to Thompson's Malted Food Company, Waukesha, Wis. Malted-milk dispenser. No. 1,355,279; Oct. 12; v. 279; p. 218.

Shuttleworth, John K., Toronto, Ontario, Canada. Lock for temporary binders. No. 1,360,590; Nov. 30; v. 280; p. 883.

Shuttleworth, Newton, Rugby, England, assignor to General Electric Company. Segregated drive for paper-machines and the like. No. 1,362,359; Dec. 14; v. 281; p. 321.

Shutts, Burton A., and J. G. Goodwin, Holt, Ala. Mechanical molding device. No. 1,3338,162; Apr. 27; v. 273; p. 670.

Siakel, Daniel. (See O'Brien, W. H., and Siakel.)

Siakel, John, Chicago, Ill. Sandpapering-machine. No. 1,330,959; Feb. 17; v. 271; p. 403.

Siamo, Antonio P., Lowell, Mass. Letter-holder for packages. No. 1,338,875; May 4; v. 274; p. 41.

Sibbald, Charles J., T. A., and J. O., Troy, N. Y. Loop-transferring device. No. 1,353,793; Sept. 21; v. 278; p. 503.

Sibbald, Charles T. A. (See Sibbald, C. J., C. T. A., and J. O.)

Sibbald, John O. (See Sibbald, C. J., C. T. A., and J. O.)

Sibbald, William H., Minot, N. D., assignor to E. E. Clement, Washington, D. C. Attachment for internal-combustion engines. No. 1,336,592; Apr. 13; v. 273; p. 227.

Sibbett, George E., Berkeley, Calif. Tractor-tread link. No. 1,338,402; Apr. 27; v. 273; p. 715.

Sibert, Lawrence D., Jacksonville, Ill., assignor to New Method Book Bindery, Inc. Bookbinding. No. 1,332,767; Mar. 2; v. 272; p. 113.

Sibley, Charles R., Lynn, Mass. Storm-window fastener. No. 1,354,222; Sept. 28; v. 278; p. 633.

Sibley, Frederick H. (See Wellman, F. E., and Sibley.)

Sibley, Frederick H., Lawrence, and H. M. Lasher, Kansas City, Kans. Deep-well pump. No. 1,330,352; Feb. 10; v. 271; p. 220.

Sibley, James T., Paterson, N. J. Mechanical starter for phonograph-motors. No. 1,337,280; Apr. 20; v. 273; p. 433.

Sibley, H. J., and G. C. Coll, assignors to Ohmer Fare Register Company, Dayton, Ohio. Fare-recorder. No. 1,360,591; Nov. 30; v. 280; p. 883.

Sibley, Roy L., Garden, Calif. Fruit-grader. No. 1,353,075; Sept. 14; v. 278; p. 301.

Sibley, Samuel J., Memphis, Tenn. Automobile signal-lamp. No. 1,361,106; Dec. 7; v. 281; p. 25.

Sibson, Walter W. (See Allsop, T., and Sibson.)

Sicard, Hugh C., Buffalo, assignor to United States Ferro-Alloys Corporation, New York, N. Y. Alloy of iron, zirconium and titanium and production thereof. No. 1,335,991; Apr. 6; v. 273; p. 55.

Sicard, Hugh C., Buffalo, assignor to United States Ferro-Alloys Corporation, New York. Producing zirconium steel. No. 1,335,992; Apr. 6; v. 273; p. 55.

Sicard, Hugh C., Buffalo, N. Y., assignor to United States Ferro-Alloys Corporation, New York, N. Y. Production of low-carbon ferrochrome. No. 1,341,930; June 1; v. 275; p. 64.

Sicard, Hugh C., Buffalo, assignor to United States Ferro-Alloys Corporation, New York, N. Y. Alloy of iron, chromium, and titanium and the production thereof. No. 1,346,343; July 13; v. 276; p. 263.

Sicard, Hugh C., Buffalo, assignor to United States Ferro-Alloys Corporation, New York, N. Y. Making chrome steel. No. 1,346,344; July 15; v. 276; p. 263.

Siehmeller, Maggie, Webster, S. D. Trap. No. 1,360,038; Nov. 23; v. 280; p. 706.

Sickler, Raymond R., Wausau, Wis. Feed-box. No. 1,344,004; June 22; v. 275; p. 668.

Sickles, Myra B., Alpine, N. J. Shoe-lace tip. No. 1,341,940; June 1; v. 275; p. 64.

Siddeley-Deasy Motor Car Company. (See Green, F. M., and Heron, assignors.)

Sidon, Maximilian, Bridgeport, Conn., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electrical connecting device. No. 1,351,191; Aug. 31; v. 277; p. 829.

Sidwell, Benjamin W., Buffalo, N. Y., assignor to The Beaver Company. Wall-board size. No. 1,336,055; Apr. 6; v. 273; p. 66.

Siebachmeier, Edward, West Hoboken, N. J. Mechanism for stopping motor-vehicles. No. 1,334,807; Mar. 23; v. 272; p. 655.

Sieben, Henry, and B. C. Haldeman, assignors to C. C. Hoefer, Kansas City, Mo. Thermal circuit-closers. No. 1,340,919; May 25; v. 274; p. 630.

Sieber Products Mfg. Co. (See Rubin, Adolph, assignor.)

Siebring, Claude, George, Iowa. Portable hog-fountain. No. 1,340,085; May 11; v. 274; p. 344.

Sieck, William, Jr. (See Drucker, G. A., Sieck, and Drucker.)

Sieck, William, Jr., and S. Drucker, Chicago, Ill. Apparatus for treating liquids with gases. No. 1,335,398; Mar. 30; v. 272; p. 827.

Siedlicks, Charles, Syracuse, N. Y. Ash-hoist. No. 1,339,072; May 4; v. 274; p. 79.

Siegel, Anna. (See Siegel, Samuel, assignor.)

Siegel, Chester A., Newark, N. J. Locomotive-firebox. No. 1,335,399; Mar. 30; v. 272; p. 827.

Siegel, Edward, Elmhurst, N. Y. Vehicle-route-indicator device. No. 1,350,244; Aug. 17; v. 277; p. 536.

Siegel, Hermann. (See Zelewski, R. v., and Siegel.)

Siegel, Isadore, Pittsburgh, Pa. Fastening device. No. 1,359,440; Nov. 16; v. 280; p. 542.

Siegel, Max. (See Hansen, Marinius, assignor.)

Siegel, Samuel, assignor to A. Siegel, New York, N. Y. Note-indicator for pianos. No. 1,340,569; May 18; v. 274; p. 493.

Siegel, Samuel, Brooklyn, assignor to Atlantic Metal Hose Company, Inc., New York, N. Y. Method and means for connecting pipe-couplings. No. 1,349,586; Aug. 17; v. 277; p. 400.

Siegheim, Fritz. (See Müller, E. L., and Siegheim.)

Siegmund, Harry B., Baltimore, Md. Can-cover remover. No. 1,333,136; Mar. 9; v. 272; p. 234.

Siegmund, Harry B., Baltimore, Md. Can-cover remover. No. 1,357,353; Nov. 2; v. 280; p. 29.

Siemens & Halske, A. G. (See Grabe, Georg, assignor.)

Siemens & Halske, A. G. (See Steidle, Hans, assignor.)

Siemens & Halske Aktiengeselischaft. (See Gerdien, Hans, assignor.)

Siemens, Schuckert Werke, G. m. b. H. (See Fischer, Kuno, assignor.)

Siemens Schuckertwerke G. m. b. H. (See Petersen, W., and Rudenberg, assignors.)

Siemens-Schuckert-Werke G. m. b. H. (See Schenkel, Moritz, assignor.)

Siemens-Schuckertwerke, G. m. b. H. (See Werner, Albert, assignor.)

Siemon, Jacob C., *et al.* (See Mowbray, James W., assignor.)

Siems, Kurt, East Cleveland, assignor to The Cleveland Tractor Company, Euclid, Ohio. Means for dust-proofing rotating gear-cases. No. 1,357,735; Nov. 2; v. 280; p. 101.

Sieurin, Paul W., Gottenborg, Sweden. Lashing device for lifeboats. No. 1,333,739; Mar. 16; v. 272; p. 409.

Sievart, Edward, Manitowoc, Wis. Marine propeller. No. 1,349,981; Aug. 17; v. 277; p. 485.

Sievart, Edward, Manitowoc, Wis. Heating apparatus. No. 1,349,982; Aug. 17; v. 277; p. 486.

Sieverkropp, Henry R., Racine, Wis. Rotary internal-combustion engine. No. 1,338,256; Apr. 27; v. 273; p. 688.

Sievert, Charles W., Los Angeles, Calif. Clutch mechanism. No. 1,355,280; Oct. 12; v. 279; p. 218.

Digitized by Google

Sievert, John M., Sherman, S. D. Antiskid attachment for wheels. No. 1,358,590; Nov. 9; v. 280; p. 331.
Siewenie, Philip, Chicago, Ill. Calendar-hanger and the like. No. 1,348,245; Aug. 3; v. 277; p. 23.
Sifleet, Stephen B., Pirongia, Waikato, New Zealand. Milk-claw support. No. 1,336,593; Apr. 13; v. 273; p. 227.
Sigel, Sigmund A., Chicago, Ill. Removable porcelain cap or cusp for dental work. No. 1,332,415; Mar. 2; v. 272; p. 46.
Sigler, Charles J., Honey Creek, Iowa. Surgical forceps. No. 1,353,430; Sept. 21; v. 278; p. 430.
Sigman, Samuel C., Gladwin, Mich. Door-lock. No. 1,341,599; May 25; v. 274; p. 762.
Sigmond, Charles A., Freeport, N. Y. Ice-cream-can tongs. No. 1,351,493; Aug. 31; v. 277; p. 889.
Signal Gesellschaft m. b. H., Firma. (See Hahnemann, Walter, assignor.)
Signature Company. (See Crompton, Frank E., assignor.)
Sikorovsky, Frank J., Chicago, Ill. Collapsible screen or ventilator. No. 1,332,924; Mar. 9; v. 272; p. 195.
Sikorski, Ludwik. (See Rysiek, Casimir, assignor.)
Silberberg, Minor, *et al.* (See Comb, J. M., and Peavey, assignors.)
Silberrad, Oswald, Buckhurst Hill, England. Propellant explosive. No. 1,349,983; Aug. 17; v. 277; p. 486.
Silberstang, Jacob, New York, N. Y. Phonograph-needle-sharpening attachment. No. 1,349,009; Aug. 10; v. 277; p. 222.
Silent Drama Syndicate. (See Brown, Lloyd, assignor.) (Reissue.)
Silky, Robert, Lansing, Mich. Automatic lawn-sprinkler. No. 1,334,808; Mar. 23; v. 272; p. 656.
Sill, E. L., Manufacturing Company. (See Sill, Edward L., assignor.)
Sill, Edward L., assignor to E. L. Sill Manufacturing Company, Woodward, Okla. Horse-collar. No. 1,356,407; Oct. 19; v. 279; p. 478.
Sill Stove Works. (See Soults, Thomas A., assignor.)
Siller, Richard, Brooklyn, N. Y. Shaving-stick holder. No. 1,356,408; Oct. 19; v. 279; p. 478.
Sillett, Harry C., and A. W. Cowan, Kansas City, assignors of one-third to W. M. Myers, St. Joseph, Mo. Hydrocarbon-gas generator and burner. No. 1,346,770; July 13; v. 276; p. 347.
Sills, Berton H., Toronto, Ontario, Canada. Fender for motor-cars. No. 1,346,850; July 20; v. 276; p. 421.
Sills, Berton H., Toronto, Ontario, Canada. Fender for motor-cars. No. 1,362,195; Dec. 14; v. 281; p. 289.
Sills, Frederick R., Elmwood, assignor of one-half to Carolina Motor Company, Statesville, N. C. Power-shovel. No. 1,337,332; Apr. 20; v. 273; p. 443.
Silnes, Sigvart, Halma, Minn. Coupling device. No. 1,349,300; Aug. 10; v. 277; p. 280.
Silsbee, Joseph L., Salt Lake City, Utah. Recovering potassium chlorid from brine. No. 1,353,283; Sept. 21; v. 278; p. 401.
Silva, Juan N., Dover, Ohio. Kiln. No. 1,340,633; May 18; v. 274; p. 506.
Silver, B. Coleman. (See Moratz, Paul O., assignor.)
Silver, Conover T., New York, N. Y. Steering-wheel for automobiles. No. 1,329,934; Feb. 3; v. 271; p. 110.
Silver, Herbert A., Cincinnati, Ohio. Amusement device. No. 1,352,841; Sept. 14; v. 278; p. 255.
Silver, Herman, Brooklyn, N. Y. Holder for cakes of soap. No. 1,333,941; Mar. 16; v. 272; p. 446.
Silver, Hyman, New York, N. Y. Self-heated soldering-iron. No. 1,345,411; July 6; v. 276; p. 17.
Silver Manufacturing Company, The. (See Haldeman, James C., assignor.)
Silverberg Import Company. (See Browne, Joseph E., assignor.)
Silverman, Alexander, and R. H. Johnson, Pittsburgh, Pa. Recording device. No. 1,351,071; Aug. 31; v. 277; p. 805.
Silverman, Wulf, New York, N. Y. Bottle-closure. No. 1,328,060; Jan. 13; v. 270; p. 282.
Silverman, Wulf, assignor of one-third to S. Alper and one-third to L. Schultz, New York, N. Y. Cigarette-case. No. 1,334,717; Mar. 23; v. 272; p. 638.
Silverstein, Albert L. (See Dieser, Julius N., assignor.)
Silverstein, Julius, and J. B. Rothberg, New York, N. Y. Spectacles. No. 1,346,429; July 13; v. 276; p. 279.
Silverthorne, Frank H., New York, N. Y. Bottle-valve mounting. No. 1,346,137; July 13; v. 276; p. 221.
Silvius, Ellis T., Indianapolis, Ind. Transmission and controlling gearing. No. 1,341,442; May 25; v. 274; p. 732.
Silvius, Ellis T., Indianapolis, Ind. Transmission and controlling gearing. No. 1,360,693; Nov. 30; v. 280; p. 903.
Silvius, Ellis T., assignor to M. H. Barton, Indianapolis, Ind. Cutter-bar and bit-chain for mining-machines. No. 1,336,927; Apr. 13; v. 273; p. 292.
Simantel, John L., Sterling, Ill. Animal-catcher. No. 1,344,828; June 29; v. 275; p. 877.
Simeone, Eugene, Webster, Mass. Turning-tool. No. 1,327,410; Jan. 6; v. 270; p. 98.
Simerson, Charles H., assignor to said Simerson and F. H. Goldhardt, Union Hill, N. J. Adjusting mechanism for wrenches and the like. No. 1,363,819; Dec. 28; v. 281; p. 696.
Simmen Automatic Railway Signal Company, The. (See Chatfield, Clarence E., assignor.)
Simmen Automatic Railway Signal Company, The. (See Ringer, Luther, assignor.)
Simmen, Frank P., San Mateo, Calif. Building structure. No. 1,357,191; Oct. 26; v. 279; p. 677.
Simmon, Karl A., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system. No. 1,338,333; Apr. 27; v. 273; p. 702.
Simmen, Paul J., Buffalo, N. Y. Automatic speed-controller for moving vehicles. No. 1,350,476; Aug. 24; v. 277; p. 629.
Simmer Automatic Railway Signal Company, The. (See Ringer, Luther, assignor.)
Simmon, Karl A. (See Schenck and Simmon.)
Simmon, Karl A., Edgewood Park, and S. B. Schenck, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. System of control. No. 1,330,557; Feb. 10; v. 271; p. 268.
Simmon, Karl A., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,343,232; June 15; v. 275; p. 435.
Simmon, Karl A., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Horizontal steering-gear for torpedoes. No. 1,360,325; Nov. 30; v. 280; p. 830.
Simmon, Karl A., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. No. 1,363,679; Dec. 28; v. 281; p. 669.
Simmonds Engineering Company, The. (See Simmonds, John J., assignor.)
Simmonds, Eugene B. (See Ullman, E. B., Simmonds, and Atkinson.)
Simmonds, John J., assignor to The Simmonds Engineering Company, Iola, Kans. Making retorts or similar devices. No. 1,331,285; Feb. 17; v. 271; p. 462.
Simmonds, John J., assignor to The Simmonds Engineering Company, Iola, Kans. Apparatus for making retorts or similar devices. No. 1,331,286; Feb. 17; v. 271; p. 462.
Simmons, Arthur W., Tyler, Tex. Locomotive driving-box. No. 1,339,228; May 4; v. 274; p. 107.
Simmons, Charles S., Norfolk, Va. Toy. No. 1,337,570; Apr. 20; v. 273; p. 488.
Simmons Company. (See Alleman, Edward C., assignor.)
Simmons Company. (See Barnes, G. W., and Travis, assignors.)
Simmons Company. (See Bayer, Matthew F., assignor.)
Simmons Company. (See Brown, Harvey E., assignor.)
Simmons Company. (See Gail, John F., assignor.)
Simmons Company. (See Kusterle, Frank, assignor.)
Simmons Company. (See Travis, D. C., and Kusterle, assignors.)
Simmons Company. (See Travis, D. C., and Stuart, assignors.)
Simmons, Cornelius B., Windsor, Ontario, Canada. Hydrocarbon-burner. No. 1,355,704; Oct. 12; v. 279; p. 299.
Simmons, Frank L., assignor to The Taft-Peirce Manufacturing Company, Woonsocket, R. I. Parallel bars and the like for magnetic chucks. No. 1,330,558; Feb. 10; v. 271; p. 258.
Simmons, Frank L., assignor to The Taft-Peirce Manufacturing Company, Woonsocket, R. I. Method and apparatus for alining work on V-blocks and the like for magnetic chucks. No. 1,336,928; Apr. 13; v. 273; p. 293.
Simmons, Frank L., assignor to The Taft-Peirce Manufacturing Company, Woonsocket, R. I. Adjustable V-block and the like for magnetic chucks. No. 1,343,751; June 15; v. 275; p. 536.
Simmons Hardware Company. (See Ramstetter, F., and Britt, assignors.
Simmons, Henry C., Atlanta, Ga. Writing-pad. No. 1,345,558; July 6; v. 276; p. 46.
Simmons, James L., assignor of fifty-one per cent. to T. W. Buckey and twenty-four and one-half per cent. to W. C. Nalle, Washington, D. C. Machine for making aeroplane-propellers. No. 1,336,659; Apr. 13; v. 273; p. 240.
Simmons, John E., Portland, Oreg. Spring-support for vehicle-bodies. No. 1,349,170; Aug. 10; v. 277; p. 254.
Simmons, John M., Boise, Idaho. Window for automobile-curtains. No. 1,341,082; May 25; v. 274; p. 662.
Simmons, John T., Brownwood, assignor of one-half to Hughes Tool Company, Houston, Tex. Pipe-puller. No. 1,340,676; May 18; v. 274; p. 514.
Simmons, John W., Cleveland, Ohio. Thrust-bearing for differential gearing of automobiles. No. 1,334,265; Mar. 16; v. 272; p. 506.
Simmons, John W., Cleveland, Ohio. Roller thrust-bearing. No. 1,334,266; Mar. 16; v. 272; p. 507.
Simmons, L. C., *et al.* (See Jochumsen, J., and Netcott, assignors.)
Simmons, Leo, Washington, D. C. Hinge. No. 1,332,768; Mar. 2; v. 272; p. 113.
Simmons, Paul R., Huntington, Ind. Dish. No. 1,356,409; Oct. 19; v. 279; p. 478.
Simmons, Ralph C. (See Bradford, C. M., and Simmons.)
Simmons, Ralph C., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Block-resurfacing mechanism. No. 1,341,765; June 1; v. 275; p. 30.

Digitized by Google

Simmons, William F., St. Louis, Mo. Combined can opener, cover, and dispenser. No. 1,348,519; Aug. 3; v. 277; p. 75.
Simms, Amos H., Chicago, Ill. Railway safety device. No. 1,336,986; Apr. 13; v. 273; p. 303.
Simms, Amos H., Chicago, Ill. Railway safety device. No. 1,349,984; Aug. 17; v. 277; p. 486.
Simms, Claude R., Fleming, Colo. Check-protector. No. 1,335,201; Mar. 30; v. 272; p. 790.
Simms, Edward R., Scottdale, Pa. Vehicle-tire. No. 1,336,790; Apr. 13; v. 273; p. 266.
Simms, Frederick R., assignor of one-half to Simms Motor Units, Limited, London, England. Flexible coupling. No. 1,345,896; July 6; v. 276; p. 112.
Simms, Harold H. (See Heberling, John, assignor.)
Simms Motor Units. (See Simms, Frederick R., assignor.)
Simon, Albert B., San Francisco, Calif. Fabric-frame. No. 1,345,030; June 29; v. 275; p. 915.
Simon, Arthur, assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Circuit-breaker. No. 1,330,094; Feb. 10; v. 271; p. 172.
Simon, Arthur B., Chicago, Ill. Vending device. No. 1,347,558; July 27; v. 276; p. 618.
Simon-Carves, Ltd. (See Potts, Harold E., assignor.)
Simon, David. (See Singman, A., and Simon.)
Simon, Eugene, Ottawa, Ontario, Canada. Bundle-tying machine. No. 1,332,528; Mar. 2; v. 272; p. 67.
Simon, Henry, Filer, Idaho. Frame for a plurality of pictures. No. 1,353,363; Sept. 21; v. 278; p. 417.
Simon, John, Mason, Tex. Toothbrush. No. 1,357,354; Nov. 2; v. 280; p. 29.
Simon, Jules, and P. F. Sarron, Lyon, France. Electric resistance-furnace. No. 1,334,809; Mar. 23; v. 272; p. 656.
Simonds Manufacturing Company. (See Hill, Rowland C., assignor.)
Simonds, Samuel W., *et al.* (See McManama, John W., assignor.)
Simone, Frank, New York, N. Y. Ticket-vending machine. No. 1,355,281; Oct. 12; v. 279; p. 218.
Simone, Joseph A. S., Inwood, N. Y. Adjustable window-screen. No. 1,336,101; Apr. 6; v. 273; p. 75.
Simonovich, Nicholas and S., New York, N. Y. Pipe-covering. No. 1,331,532; Feb. 24; v. 271; p. 529.
Simonovich, Samuel. (See Simonovich, Nicholas and S.)
Simons, Alex, Detroit, Mich. Scale-holder. No. 1,346,513; July 13; v. 276; p. 296.
Simons, Frank F., Harmony, Pa. Propelling mechanism. No. 1,355,109; Oct. 5; v. 279; p. 131.
Simons, Frank F., Harmony, Pa. Craft-propulsion mechanism. No. 1,355,110; Oct. 5; v. 279; p. 131.
Simons, Frank F., Harmony, Pa. Flying-machine. No. 1,355,111; Oct. 5; v. 279; p. 131.
Simons, Frank F., Harmony, Pa. Wing-propeller for aircraft. No. 1,355,112; Oct. 5; v. 279; p. 131.
Simons, Henry C., Odebolt, Iowa. Disk-sharpening device. No. 1,350,888; Aug. 24; v. 277; p. 707.
Simons, Wayne E., Boyd, Oreg. Tractor. No. 1,335,614; Mar. 30; v. 272; p. 867.
Simonson, Sigvard, Butler, Pa., assignor to Harry Vissering & Company, Chicago, Ill. Yoke for railway draft-gears. No. 1,352,151; Sept. 7; v. 278; p. 84.
Simonson, Sigvard, Butler, Pa., assignor to Harry Vissering & Company, Chicago, Ill. Manufacture of railway draft-gears. No. 1,352,152; Sept. 7; v. 278; p. 85.
Simonton, Frank H., assignor of fifty-one one-hundredths per cent. to A. A. Smith, New York, N. Y. Engine driving connection. No. 1,362,901; Dec. 21; v. 281; p. 478.
Simplex Auto Wheel Company, The. (Reissue.) (See Black, William A., assignor.)
Simplex Corporation. See De Martino, Joseph, assignor.)
Simplex Corporation. (See Warren, Frank R., assignor.)
Simplex Electric Heating Company. (See Hewitt, Frank W., assignor.)
Simplex Electric Heating Company. (See Woodbury, Stephen E., assignor.)
Simplex Manufacturing Company. (See Mungall, Thomas, assignor.)
Simplex Wire and Cable Company. (See Boggs, Charles R., assignor.)
Simpson, Albert E., Bury, England. Tool for forming taper-holes. No. 1,355,065; Oct. 5; v. 279; p. 123.
Simpson, Arthur M. (See Simpson, George N. and A. M.)
Simpson, Charles F., Oakland, Calif. Telephone-receiver holder. No. 1,336,929; Apr. 13; v. 273; p. 293.
Simpson, Clarence H., Front Royal, Va. Condenser. No. 1,331,533; Feb. 24; v. 271; p. 530.
Simpson, David B., Wichita, Kans. Friction brake-band. No. 1,351,927; Sept. 7; v. 278; p. 43.
Simpson, David J., Chicago, Ill., assignor to N. S. Amstutz, Valparaiso, Ind. Steel-treatment-transferring system and apparatus therefor. No. 1,348,903; Aug. 10; v. 277; p. 201.
Simpson, David J., Chicago, Ill., assignor to N. S. Amstutz, Valparaiso, Ind. Steel treatment. No. 1,351,494; Aug. 31; v. 277; p. 889.
Simpson, David J., Chicago, Ill., assignor to N. S. Amstutz, Valparaiso, Ind. Steel-treatment apparatus. No. 1,351,495; Aug. 31; v. 277; p. 889.
Simpson, Emory G., assignor to Ternstedt Manufacturing Co., Detroit, Mich. Curtain-roller. No. 1,344,358; June 22; v. 275; p. 720.
Simpson, Emory G., C. J. Schmidt, and F. P. Carstens, assignors to Ternstedt Manufacturing Company, Detroit, Mich. Window-lifting apparatus. No. 1,343,410; June 15; v. 275; p. 468.
Simpson, George, Richmond, and J. R. Gordon, assignors to Simpson-Gordon Patents, Inc., New York, N. Y. Ship's construction and disposing propelling machinery therein. No. 1,355,513; Oct. 12; v. 279; p. 263.
Simpson, George N., Chicago, Ill. Liquid car control. No. 1,349,387; Aug. 10; v. 277; p. 297.
Simpson, George N. and A. M., Chicago, Ill. Car control. No. 1,349,388; Aug. 10; v. 277; p. 297.
Simpson-Gordon Patents, Inc. (See Simpson, G., and Gordon.)
Simpson, Herbert S., Evanston, Ill. Foundry-mixer. No. 1,337,333; Apr. 20; v. 273; p. 444.
Simpson, James E., Brooklyn, assignor to Typewriter Accessories Co., Inc., New York, N. Y. Typewriting-machine. No. 1,346,851; July 20; v. 276; p. 421.
Simpson, John G., Knoxville, Tenn. Rock-crusher. No. 1,354,855; Oct. 5; v. 279; p. 81.
Simpson, Joseph. (See Hertel and Simpson.)
Simpson, Judson L., Kennebunk, Me., assignor of one-half to A. A. Wheeler, Somerville, Mass. Sugar-dispenser. No. 1,349,228; Aug. 10; v. 277; p. 265.
Simpson, Leon G., assignor to Bausch and Lomb Optical Company, Rochester, N. Y. Lens-grinding machine. No. 1,332,074; Feb. 24; v. 271; p. 632.
Simpson, Robert H., Berkeley, Calif. Tire-valve cap. No. 1,349,922; Aug. 17; v. 277; p. 473.
Simpson, Rufus A., Oakland, Calif. Butter-cutting machine. No. 1,329,810; Feb. 3; v. 271; p. 87.
Simpson, Sumner, assignor to The Raybestos Company, Bridgeport, Conn. Clutch-facing and making same. No. 1,348,755; Aug. 3; v. 277; p. 120.
Simpson, Thomas H., Centerville, Iowa. Automobile-lock. No. 1,348,453; Aug. 3; v. 277; p. 63.
Simpson, William D., Columbia, S. C. Nut-marking machine. No. 1,344,007; June 22; v. 275; p. 651.
Simpson, William F., assignor to C. Kehr, trustee, Knoxville, Tenn. Machine for cutting sheet-form material. No. 1,344,155; June 22; v. 275; p. 680.
Simpson, William G., Detroit, Mich. Hydrocarbon or gasolene turbine-motor. No. 1,339,483; May 11; v. 274; p. 231.
Simpson, William L., San Francisco, Calif., assignor to Bethlehem Shipbuilding Corporation, Ltd., Bethlehem, Pa. Double-riveting machine. No. 1,351,444; Aug. 31; v. 277; p. 880.
Simpson, William M., assignor of one-half to W. L. Sun, Portland, Oreg. Washing-machine. No. 1,351,008; Aug. 24; v. 277; p. 730.
Sims, Charles E., Chattanooga, Tenn. Combined door-holder and hand-rail for railway-cars. No. 1,357,529; Nov. 2; v. 280; p. 62.
Sims, Edward J., Brooklyn, N. Y. Accommodation-ladder for marine vessels. No. 1,343,094; June 8; v. 275; p. 344.
Sims, Frederick L. H., assignor to The Diaphone Signal Company, Limited, Toronto, Ontario, Canada. Metal bending and forming machine. No. 1,336,660; Apr. 13; v. 273; p. 240.
Sims, James F., Kansas City, Mo. Dust-collector. No. 1,353,431; Sept. 21; v. 278; p. 430.
Sims, James G., assignor of one-fourth to W. S. Riggins, Bowie, Tex. Cotton-chopping machine. No. 1,336,708; Apr. 13; v. 273; p. 250.
Sims, Jefferson D. (See Cook, L. P., and Sims.)
Sims, Mirabeau, Llanerch, Pa. Ballast-treating. No. 1,329,554; Feb. 3; v. 271; p. 40.
Sims, Wilson E., Greeneville, Tenn. Auxiliary air-valve. No. 1,327,494; Jan. 6; v. 270; p. 114.
Sinclair, Albert L. (See Nadon, Camille L., assignor.)
Sinclair, Alfred C., assignor to Sinclair Motor Co., Inc., New Orleans, La. Engine-valve. No. 1,363,363; Dec. 28; v. 281; p. 608.
Sinclair, Alfred J., Dayton, Ohio. Tuning device for wind musical instruments. No. 1,361,629; Dec. 7; v. 281; p. 131.
Sinclair, Archibald F. (See Doane, Burrows, and Sinclair.) (Reissue.)
Sinclair, Charles G., Jr., Towaco, N. J., assignor to American Telephone & Telegraph Company. Cable-hanger. No. 1,352,549; Sept. 14; v. 278; p. 197.
Sinclair, George B. (See Severy, M. L., and Sinclair.)
Sinclair Motor Co. (See Sinclair, Alfred C., assignor.)
Sinclair, Thomas H., Hamilton, Ontario, Canada. Clamp for concrete-forms. No. 1,354,516; Oct. 5; v. 279; p. 14.
Sinel, Arthur H., Auckland, New Zealand. Bale-tie. No. 1,353,859; Sept. 28; v. 278; p. 560.
Sindelar, Thomas A., assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Platform. No. 1,334,409; Mar. 23; v. 272; p. 581.
Sinderson, John B., assignor, by mesne assignments, to Barber-Colman Company, Rockford, Ill. Warp-clamps. No. 1,342,876; June 8; v. 275; p. 301.
Sine, David A., Greece, N. Y. Camera. No. 1,330,400; Feb. 10; v. 271; p. 229.

Digitized by Google

Sines, Harold S. (See Ferguson, Louis A., assignor.)
Singelyn, Charles G., Detroit, Mich. Automatic air-regulator for automobile gas-engines. No. 1,357,355; Nov. 2; v. 280; p. 30.
Singer, Fritz, and A. Holl, Offenbach-on-the-Main, Germany, assignors, by mesne assignments, to The Chemical Foundation, Inc. Derivatives of pyrazole anthrone yellow. No. 1,329,435; Feb. 3; v. 271; p. 17.
Singer, George W., South Bend, Ind. Automobile-fender. No. 1,346,345; July 13; v. 276; p. 263.
Singer, Joseph B., Brooklyn, and A. B. Levy, New York, N. Y. Display-carton. No. 1,361,630; Dec. 7; v. 281; p. 131.
Singer, Joseph B., and A. B. Levy, New York, N. Y. Folding display-box. No. 1,361,631; Dec. 7; v. 281; p. 131.
Singer Manufacturing Company, The. (See Abercrombie, Charles M., assignor.)
Singer Manufacturing Company, The (See Allen, Edward B., assignor.)
Singer Manufacturing Company, The. (See Barron, W. L., and Fifield, assignors.)
Singer Manufacturing Company, The. (See Barron, W. L., and Michener, assignors.)
Singer Manufacturing Company, The. (See Barron, W. L., and Osol, assignors.)
Singer Manufacturing Company, The. (See Barron, William L., assignor.)
Singer Manufacturing Company, The. (See Becker, Rudolph, assignor.)
Singer Manufacturing Company, The. (See Blasi, Joseph, assignor.)
Singer, Manufacturing Company, The. (See Corrall, H., and Heggie, assignors.)
Singer Manufacturing Company, The. (See Corrall, Herbert, assignor.)
Singer Manufacturing Company, The. (See Crockett, William P., assignor.)
Singer Manufacturing Company, The. (See De Voe, Albert H., assignor.
Singer Manufacturing Company, The. (See Eames, G. M., and Finch, assignors.)
Singer Manufacturing Company, The. (See Fifield, Albert F., assignor.)
Singer Manufacturing Company, The. (See Gatchell, George S., assignor.)
Singer Manufacturing Company, The. (See Gray, Charles F., assignor.)
Singer Manufacturing Company. (See Harmon, Frank L., assignor.) (Reissue.)
Singer Manufacturing Company, The (See Herr, Park A., assignor.)
Singer Manufacturing Company, The. (See Hleb, Peter, assignor.)
Singer Manufacturing Company, The. (See Horton, Charles M., assignor.)
Singer Manufacturing Company, The. (See Karle, John D., assignor.)
Singer Manufacturing Company, The. (See Kopf, E. A., and Hemleb, assignors.)
Singer Manufacturing Company, The. (See Lee, A. E., and Milsted, assignors.)
Singer Manufacturing Company, The. (See Mackey, Jay A., assignor.)
Singer Manufacturing Company, The. (See Michener, Wayland D., assignor.)
Singer Manufacturing Company, The. (See Molyneaux, George E., assignor.)
Singer Manufacturing Company, The. (See Noble, Donald, assignor.)
Singer Manufacturing Company, The. (See Petti, Ralph, assignor.)
Singer Manufacturing Company, The. (See Ströbeck, Frans T., assignor.)
Singer Manufacturing Company, The. (See Webb, Irving F., assignor.)
Singer, Saul. (See Moore, E. T., and Singer.)
Singer Sewing Mach. Company. (See Allen, Edward B., assignor.)
Singletary, Emerson W. (See Bergeron, Clovis, assignor.)
Singletary, Owen H., Montgomery, Ala. Apparatus for cleaning pipes. No. 1,331,681; Feb. 24; v. 271; p. 558.
Singleterry, Sidney, Dallas, Oreg. Convertible chair. No. 1,347,127; July 20; v. 276; p. 475.
Singleton, Clifton E., Brooklyn, N. Y. Tire-tool. No. 1,352,550; Sept. 14; v. 278; p. 197.
Singleton, Thomas E., Savannah, Tenn. Wire-stretcher. No. 1,345,265; June 29; v. 275; p. 960.
Singman, Albert, and D. Simon, Philadelphia, Pa. Paper wreath-frame. No. 1,354,627; Oct. 5; v. 279; p. 37.
Sinkovich, John, Youngstown, Ohio. Rail joint and fastener. No. 1,328,695; Jan. 20; v. 270; p. 438.
Sinkovitz, Joseph. (See Flik, William, assignor.)
Sippel, George B., and G. J. Patitz, assignors to Peter Schoenhofen Brewing Company, Chicago, Ill. Dealcoholizing fermented beverages. No. 1,333,457; Mar. 9; v. 272; p. 294.
Sipple, Earl C., *et al.* (See Whitcomb, James, assignor.)
Sipples, James I., Cynthiana, Ky. Propelling mechanism for vehicles. No. 1,354,423; Sept. 28; v. 278; p. 674.
Siprelle, Gertrude, *et al.* (See Siprelle, Harry A., assignor.)
Siprelle, Harry A., Cleveland, Ohio. Tire. No. 1,346,046; July 13; v. 276; p. 263.
Siprelle, Harry A., Cleveland, Ohio, assignor of thirty one-hundredths to G. Siprelle and twenty one-hundredths to A. M. McCullough, Cleveland, Ohio. Horseshoe. No. 1,334,410; Mar. 23; v. 272; p. 581.
Siqueira, Edward C., Oakland, Calif. Change-making machine. No. 1,327,969; Jan. 13; v. 270; p. 264.
Sir W. G. Armstrong Whitworth and Company. (See Chicken, C. B., and Thain, assignors.)
Sirolla, Mat, Trinidad, Colo. Secret alarm-cabinet. No. 1,331,033; Feb. 17; v. 271; p. 417.
Sisbower, George F., East Orange, N. J., and L. E. Pittoni, New York, N. Y., assignors to New York Couch Bed Company, New York, N. Y. Couch-hammock. No. 1,346,689; July 13; v. 276; p. 330.
Sissel, John H., Lamont, Iowa. Tractor. No. 1,346,771; July 13; v. 276; p. 347.
Sisson, Martha L., Washington, D. C. Egg-case filler. No. 1,360,808; Nov. 30; v. 280; p. 925.
Sisson, Vinton E., assignor to W. P. Murphy, Chicago, Ill. Reinforced-end structure for railway-cars. No. 1,337,281; Apr. 20; v. 273; p. 433.
Sisson, Vinton E., assignor to W. P. Murphy, Chicago, Ill. End construction for railway-cars. No. 1,342,604; June 8; v. 275; p. 246.
Sisson, Vinton E., Chicago, Ill., assignor to W. P. Murphy, New York, N. Y. Railway-car. No. 1,347,878; July 27; v. 276; p. 682.
Sisson, Vinton E., assignor to W. P. Murphy, Chicago, Ill. Sheet-metal end structure for railway-cars. No. 1,349,442; Aug. 10; v. 277; p. 308.
Sisson, Vinton E., assignor to Walter P. Murphy, Chicago, Ill. Sheet-steel car end. No. 1,358,886; Nov. 16; v. 280; p. 436.
Sitkiewitz, Louis H. (See Blank, M. R., and Sitkiewitz.)
Sitney, Massey, Brooklyn, N. Y. Mobile armament. No. 1,351,928; Sept. 7; v. 278; p. 43.
Sittinger, Paula M., St. Louis, Mo. Educational device. No. 1,359,115; Nov. 16; v. 280; p. 478.
Sitzler, Louis E., Esher, England. Means for starting internal-combustion engines. No. 1,331,853; Feb. 24; v. 271; p. 591.
Siverson, Magnus. (See Nelson, A. P., and Siverson.)
Sivils, Floyd E., Lawrence, Miss. Harrow. No. 1,345,966; July 6; v. 276; p. 127.
Sivyer, Fredrick J., Edmonton, near Cairns, Queensland, Australia. Manufacture of coke and apparatus therefor. No. 1,354,809; Oct. 5; v. 279; p. 73.
Sizer, George. (See While, F. B., and O'Sullivan, assignors.)
Sjoberg, John G., Oakland, Calif. Ship-launching control device. No. 1,339,293; May 4; v. 274; p. 118.
Sjoberg, Sidney T., Minneapolis, Minn. Fuse-plug. No. 1,330,499; Feb. 10; v. 271; p. 247.
Sjoberg, Sidney T., Chicago, assignor to Whiting Foundry Equipment Company, Harvey, Ill. Counterbalanced crane. No. 1,344,659; June 29; v. 275; p. 845.
Sjökvist, Frans G. H. (See Johansson, C. E., and Sjökvist.)
Skala, Yaro, Cleveland, Ohio. Hood-support for automobiles. No. 1,344,095; June 22; v. 275; p. 668.
Skarnulis, William, New Britain, Conn. Automobile-signal. No. 1,328,404; Jan. 20; v. 270; p. 384.
Skedgell, David E., Fall River, Mass., assignor to Draper Corporation, Hopedale, Mass. Cushion-spring shuttle-check. No. 1,341,941; June 1; v. 275; p. 64.
Skelly, Bernard H., Bridgeport, Conn. Force-feed lubricator. No. 1,359,116; Nov. 16; v. 280; p. 479.
Skelly, John S., Monongahela, Pa., assignor to Combustion Engineering Corporation, New York, N. Y. Furnace and grate-bar therefor. No. 1,354,346; Sept. 28; v. 278; p. 658.
Skelly, Samuel, Alameda, Calif. Guard for heaters. No. 1,332,474; Mar. 2; v. 272; p. 57.
Skelton, George G., assignor to The Collis Company, Clinton, Iowa. Steaming-receptacle. No. 1,361,552; Dec. 7; v. 281; p. 116.
Skelton, John W., Douglas, Ariz. Flytrap. No. 1,328,850; Jan. 27; v. 270; p. 497.
Skelton, L. Sherman. (See Day, Charles, assignor.)
Skelton, Levi S., Okmulgee, Okla. Hoisting mechanism for glass-drawing apparatus. No. 1,363,622; Dec. 28; v. 281; p. 658.
Skelton, William S., Evansville, Ind. Exhibitor. No. 1,343,646; June 15; v. 275; p. 515.
Skerl, Francesco, and Forrest J. Graef, assignors to The National Cash Register (Incorporated 1906) Company, Dayton, Ohio. Ticket-issuing accounting-machine. No. 1,338,876; May 4; v. 274; p. 42.
Skerrett, John F., assignor to Nicholas Power Company, New York, N. Y. Lamp for projecting apparatus. No. 1,354,583; Oct. 5; v. 279; p. 27.
Skibinski, Adam, Greenfield, Mass. Tool-holder. No. 1,342,031; June 1; v. 275; p. 82.
Skibinsky, Alexander M. (See Forester, Herbert, assignor.)
Skidmore, Benjamin, Jr., Chicago, Ill. Hydroturbine vacuum-pump. No. 1,361,189; Dec. 7; v. 281; p. 41
Skidmore, Benjamin, Jr., Chicago, Ill. Suction and pressure creating apparatus. No. 1,361,190; Dec. 7; v. 281; p. 42.

Digitized by Google

Alphabetical list of patentees—Continued.

Skidmore, Benjamin, Jr., and E. F. McCarthy, assignors to Vacuum Machinery Co., Chicago, Ill. Combined agitator and force-pump. No. 1,361,191; Dec. 7; v. 281; p. 42.

Skilbeck, Gerald W., Kenosha, Wis. Adjustable keeper. No. 1,357,084; Oct. 26; v. 279; p. 657.

Skibred, Lars, Dorchester, Wis. Article-carrier support for automobiles. No. 1,344,729; June 29; v. 275; p. 858.

Skillins, John T., Westbrook, Me. Cotton-harvester. No. 1,355,787; Oct. 12; v. 279; p. 315.

Skillins, John T., assignor to Dana Cotton Harvester Company, Westbrook, Me. Vacuum-nozzle for cotton-picking machines. No. 1,355,786; Oct. 12; v. 279; p. 315.

Skinder, J., *et al.* (See Mahtes, Anheny, assignor.)

Skinnerviken, Johan, assignor of one-half to O. Ekio, Chicago, Ill. Cigar holder and saver. No. 1,342,512; June 8; v. 275; p. 229.

Skinner, Allan D., Erie, Pa. Steam-heated piston. No. 1,339,629; May 11; v. 274; p. 259.

Skinner, Allan D., Erie, Pa. Heated piston. No. 1,356,843; Oct. 26; v. 279; p. 629.

Skinner, Alva L. (See Denton, J., and Skinner.)

Skinner, Burr R., Aberdeen, S. D. Means for heating boiler feed-water. No. 1,341,443; May 25; v. 274; p. 782.

Skinner, Charles L., Chicago, Ill. Electric stove. No. 1,359,757; Nov. 23; v. 280; p. 651.

Skinner, Charles P., Orcutt, Calif. Underreamer. No. 1,362,513; Dec. 14; v. 281; p. 351.

Skinner Engine Company. (See Glenn, John C., assignor.)

Skinner Engine Company. (See Wadsworth, Frank L. O., assignor.)

Skinner, Fred A. C., St. Louis, Mo. Air-heating furnace. No. 1,343,752; June 15; v. 275; p. 536.

Skinner, Fred R., Syracuse, N. Y., assignor of one-half to E. Ripley, Los Angeles, Calif. Paper bag. No. 1,346,852; July 20; v. 276; p. 421.

Skinner, James M. (See Holland and Skinner.)

Skinner, Le Grand, Erie, Pa. Steam-engine. No. 1,339,630; May 11; v. 274; p. 259.

Skinner, Lewis B., Denver, Colo. Heat-regenerator. No. 1,350,267; Aug. 17; v. 277; p. 540.

Skinner, Lewis B., Denver, Colo. Protecting metal pipes exposed to high temperatures. No. 1,350,268; Aug. 17; v. 277; p. 541.

Skinner, Lewis B., Denver, Colo. Treating ores. No. 1,350,286; Aug. 17; v. 277; p. 544.

Skinner Machinery Company. (See McIntyre, Allen H., assignor.)

Skinner, Milton D., Port Credit, Ontario, Canada. Apparatus for removing the pits from cherries and other fruits. No. 1,363,680; Dec. 28; v. 281; p. 669.

Skinner, Mortimer B., Wilmette, Ill. Tool for surfacing valve-seats. No. 1,330,915; Feb. 17; v. 271; p. 394.

Skinner, Onias C., Montrose, Colo. Gearless rotary clutch and transmission mechanism. No. 1,349,229; Aug. 10; v. 277; p. 266.

Skinner, Perry R., Amsterdam, N. Y. Dental tool. No. 1,329,274; Jan. 27; v. 270; p. 576.

Skinner, Robert L., Le Roy, N. Y. Marking-machine. No. 1,362,443; Dec. 14; v. 281; p. 337.

Skinner, Stephen G., Chicago, Ill. Air-pump. No. 1,327,783; Jan. 13; v. 270; p. 230.

Skinner, Willard A. (See Reuter, E. T., and Skinner.)

Skinner, Willard A., Manchester, N. H. Combination tool and lock. No. 1,330,657; Feb. 10; p. 271; p. 276.

Skipworth, Richmond T., Utica, Miss. Nut-lock. No. 1,337,164; Apr. 13; v. 273; p. 337.

Sklovsky, Max, assignor to Deere & Company, Moline, Ill. Air-heating apparatus. No. 1,360,457; Nov. 30; v. 280; p. 856.

Skoglund, Gustaf, Minneapolis, Minn. Artificial limb. No. 1,350,743; Aug. 24; v. 277; p. 681.

Skogman, Julius H., Joplin, Mo. Railway-switch. No. 1,358,887; Nov. 16; v. 280; p. 436.

Skogman, Julius H., Joplin, Mo. Cable-clamping device. No. 1,360,458; Nov. 30; v. 280; p. 856.

Skolneek, Christ, Cleveland, Ohio. Lock. No. 1,356,747; Oct. 26; v. 279; p. 591.

Skolnik, Max, Minneapolis, Minn. Child's vehicle. No. 1,348,326; Aug. 3; v. 277; p. 39.

Skolnik, Max, Minneapolis, Minn. Child's vehicle. No. 1,362,825; Dec. 21; v. 281; p. 464.

Skolnik, Max, Minneapolis, Minn. Child's combined carriage and coaster. No. 1,362,826; Dec. 21; v. 281; p. 464.

Skonberg, Arik K. (See Sommer, F. R., and Skonberg.)

Skopal, Carl, Lethbridge, Alberta, Canada. Gun-sight. No. 1,336,165; Apr. 6; v. 273; p. 87.

Skrzycki, John, Chicago, Ill. Work-holder. No. 1,356,889; Oct. 26; v. 279; p. 619.

Skublin, Charles P., Detroit, Mich. Trolley-wheel. No. 1,334,564; Mar. 23; v. 272; p. 610.

Skublin, Charles P., assignor to W. A. Adams, Detroit, Mich. Gas-engine. No. 1,345,266; June 29; v. 275; p. 961.

Skublin, Charles P., assignor to W. A. Adams, Detroit, Mich. Trolley-wheel. No. 1,349,230; Aug. 10; v. 277; p. 266.

Skulski, Mateusz, Mansfield, Ohio. Auto electrical display-signal. No. 1,360,039; Nov. 23; v. 280; p. 706.

Skur, August W., Worcester, Mass. Combination kick and bob sled. No. 1,362,902; Dec. 21; v. 281; p. 479.

Skwarko, Paul, Pittsburgh, Pa. Collapsible bed. No. 1,330,725; Feb. 10; v. 271; p. 289.

Slack, Newman F. (See Buchanan, F. R., and Slack.)

Slade, Marcus W., London, England. Garden-frame and like structure. No. 1,331,388; Feb. 17; v. 271; p. 482.

Slade, Samuel, Chicago, Ill. Dimming attachment for headlights. No. 1,330,916; Feb. 17; v. 271; p. 394.

Slade, Walter W., Brookline, Mass., assignor to Globe Optical Company, Boston, Mass. Sanitary display-cabinet. No. 1,333,942; Mar. 16; v. 272; p. 446.

Slagenhauf, August. (See Drake and Slagenhauf.)

Slaght, Arthur G., *et al.* (See Ormiston, John A., assignor.)

Slagle, Clarence P., Lonaconing, Md. Vegetable-cutter. No. 1,333,641; Mar. 16; v. 272; p. 390.

Slagle, George R., A. N. Garner and W. R. Rushin, assignors of one-fourth to J. M. Davis, Brashear, Tex. Wrench. No. 1,356,565; Oct. 26; v. 279; p. 555.

Slate, J. W., *et al.* (See Lundy, Lundy S, assignor.)

Slater, Fred M. (See Bayles, L. C., and Slater.)

Slater, Fred M., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Feeding means for drills. No. 1,361,632; Dec. 7; v. 281; p. 131.

Slater, George B., *et al.* (See Marsden, George E. W., assignor.)

Slater, Horace G., Los Angeles, Calif. Dust-cap valve. No. 1,329,146; Jan. 27; v. 270; p. 553.

Slater, John M. L. (See Du Pasquier, A., and Slater.)

Slater, Vern, assignor to The Claxo Company, Iowa City, Iowa. Air-diffusion machine. No. 1,346,471; July 13; v. 276; p. 287.

Slatten, William H., Chicago, Ill. Car-roof. No. 1,332,638; Mar. 2; v. 272; p. 89.

Slattery, Charles, Cuyahoga Falls, Ohio. Drier. No. 1,354,223; Sept. 28; v. 278; p. 633.

Slattery, Charles, Cuyahoga Falls, Ohio. Brick-molding machine. No. 1,354,224; Sept. 28; v. 278; p. 634.

Slaughter, Gibbons G., Greenville, S. C. Combination memo and diary. No. 1,362,196; Dec. 14; v. 281; p. 290.

Slaughter, Osceola C., Omaha, Nebr. Lock for steering mechanisms. No. 1,350,526; Aug. 24; v. 277; p. 638.

Slauson, Stephen A., Cedar Rapids, Iowa. Gate and hinge construction. No. 1,345,559; July 6; v. 276; p. 46.

Slauson, Stephen A., Cedar Rapids, Iowa. Gate-latch. No. 1,360,040; Nov. 23; v. 280; p. 707.

Slavik, William M., Oak Park, Ill. Mechanic's square. No. 1,359,758; Nov. 23; v. 280; p. 651.

Slawinski, Zigmunt, Plainfield, N. J. Skate. No. 1,342,773; June 8; v. 275; p. 281.

Slawinski, Zygmunt, South Plainfield, N. J. Rail-tie. No. 1,358,256; Nov. 9; v. 280; p. 264.

Slawter, Ira Leon, Grand Prairie, Alberta, Canada. Automatic timer. No. 1,337,282; Apr. 20; v. 273; p. 484.

Slease, Carrie E. (See Speer, Edgar J., assignor.)

Slee, John, Newton-le-Willows, England, assignor of thirty one-hundredths to R. E. B. Trevor, Liverpool, and thirty one-hundredths to H. W. Johnson, St. Helens, England. Atmospheric or power hammer. No. 1,363,021; Dec. 21; v. 281; p. 502.

Sleeper, Frank H., Worcester, Mass. Lock for vehicle-control pedals. No. 1,335,532; Mar. 30; v. 272; p. 851.

Sleeper, Frank H., assignor to Sleeper & Hartley, Inc., Worcester, Mass. Tube-coiling machine. No. 1,358,186; Sept. 21; v. 278; p. 383.

Sleeper, F. H., and W. H. Blount, assignors to Sleeper & Hartley, Inc., Worcester, Mass. Coil feeding and cutting mechanism. No. 1,352,842; Sept. 14; v. 278; p. 256.

Sleeper & Hartley. (See Sleeper, F. H., and Blount, assignors.)

Sleeper & Hartley. (See Sleeper, Frank H., assignor.)

Sleeper, Joseph J., Moores, Del., and W. Mills, Pleasantville, N. J.; said Mills assignor to said Sleeper. Wrapper-pasting device. No. 1,347,182; July 20; v. 276; p. 486.

Sleeper, Oliver S., assignor to Buffalo Foundry & Machine Company, Buffalo, N. Y. Apparatus for drying liquids. No. 1,331,389; Feb. 17; v. 271; p. 482.

Sleeper, Oliver S., assignor to Buffalo Foundry & Machine Company, Buffalo, N. Y. Oven. No. 1,362,151; Dec. 14; v. 281; p. 281.

Sleffel, William J., Lakewood, assignor to The Kirk Latty Manufacturing Company, Cleveland, Ohio. Child's vehicle construction. No. 1,354,141; Sept. 28; v. 278; p. 617.

Sleight, William W., Chicago, Ill. Coupling for window-cleaners' devices. No. 1,330,401; Feb. 10; v. 271; p. 229.

Sleight, William W., assignor to G. F. Minnis, Chicago, Ill. Window-bolt for concrete buildings. No. 1,362,749; Dec. 21; v. 281; p. 449.

Slepian, Joseph, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-interrupter. No. 1,338,334; Apr. 27; v. 273; p. 703.

Slepian, Joseph, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Switching device. No. 1,357,257; Nov. 2; v. 280; p. 11.

Digitized by Google

Slepian, Joseph, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Permeameter. No. 1,360,326; Nov. 30; v. 280; p. 831.
Sleppy, E. M. (See Roche, John W., assignor.)
Slick, Edwin E., Westmont borough, Pa. Wheel-mill. No. 1,327,635; Jan. 13; v. 270; p. 202.
Slick, Edwin E., Westmont borough, Pa. Rolling metallic wheels. No. 1,333,137; Mar. 9; v. 272; p. 235.
Slick, Edwin E., Westmont borough, Pa. Shearing-machine. No. 1,334,718; Mar. 23; v. 272; p. 638.
Slick, Edwin E., Westmont borough, Pa. Method of and apparatus for making shafts. No. 1,359,625; Nov. 23; v. 280; p. 624.
Sliger, Oscar, assignor to Mengel Box Company, Louisville, Ky. Rack-assembling machine. No. 1,354,424; Sept. 28; v. 278; p. 674.
Slinack, Victor H., assignor to The Pennsylvania Globe Gas Light Company, Philadelphia, Pa. Hydrocarbon-burner. No. 1,354,556; Oct. 5; v. 279; p. 82.
Slingluff, Harry G., Mount Vernon, Ohio, assignor to Pittsburgh Plate Glass Company. Drawing glass sheets. No. 1,339,229; May 4; v. 274; p. 107.
Slipp, Robert R., Fort Fairfield, Me. Machine-hoe. No. 1,346,265; July 13; v. 276; p. 247.
Slipp, Robert R., Fort Fairfield, Me. Ground-working implement. No. 1,346,266; July 13; v. 276; p. 247.
Sliwinski, Michal, Plainfield, N. J. Ship-salvage device. No. 1,333,783; Mar. 16; v. 272; p. 417.
Sloan, Charles L., Memphis, Tex. Automatic trailing device. No. 1,331,854; Feb. 24; v. 271; p. 591.
Sloan, E. R., *et al.* (See Hall, Stewart E., assignor.)
Sloan, George, Derby, Iowa. Hitch for tractors. No. 1,332,524; Mar. 2; v. 272; p. 68.
Sloan, Ira L., North Yakima, Wash. Flying-machine. No. 1,328,211; Jan. 13; v. 270; p. 311.
Sloan, James W., Tulsa, Okla. Blank for manufacture of bailer-bottoms. No. 1,339,722; May 11; v. 274; p. 277.
Sloan, Sara E., Denver, Colo. One-piece sleeve and waist. No. 1,348,327; Aug. 3; v. 277; p. 39.
Sloan, Sebastian N., Maumee, Ohio, assignor to The Toledo Standard Commutator Co., Toledo, Ohio. Commutator and assembling same. No. 1,354,005; Sept. 28; v. 278; p. 589.
Sloan, Sebastian N., assignor, by mesne assignments, to The Toledo Commutator Company, Toledo, Ohio. Making commutators. No. 1,354,006; Sept. 28; v. 278; p. 589.
Sloan, Wayne F., Pomeroy, Ohio. Mold for drain-tiles. No. 1,336,867; Apr. 13; v. 273; p. 280.
Sloan, William E., Chicago, Ill. Closet-seat. No. 1,337,730; Apr. 20; v. 273; p. 519.
Sloan, William E., Chicago, Ill. Closet-seat device. No. 1,339,585; May 11; v. 274; p. 250.
Sloane, Nathan, Brooklyn, N. Y. Handle for handbags. No. 1,342,301; June 1; v. 275; p. 135.
Sloane, William W., assignor to Goodman Manufacturing Company, Chicago, Ill. Storage-battery locomotive. No. 1,331,591; Feb. 24; v. 271; p. 541.
Sloane, William W., assignor to Goodman Manufacturing Company, Chicago, Ill. Storage-battery locomotive. No. 1,337,334; Apr. 20; v. 273; p. 444.
Sloane, William W., assignor to Goodman Manufacturing Company, Chicago, Ill. Receptacle-closure. No. 1,346,853; July 20; v. 276; p. 421.
Sloane, William W., assignor to Goodman Manufacturing Company, Chicago, Ill. Mine-locomotive. No. 1,358,028; Nov. 9; v. 280; p. 219.
Sloane, William W., assignor to Goodman Manufacturing Company, Chicago, Ill. Mine-locomotive. No. 1,358,029; Nov. 9; v. 280; p. 219.
Sloane, William W., assignor to Goodman Manufacturing Company, Chicago, Ill. Charging system for storage batteries. No. 1,360,592; Nov. 30; v. 280; p. 883.
Slobodzian, Szymon, and J. Oberleytan, Newark, N. J. Match-box. No. 1,359,759; Nov. 23; v. 280; p. 651.
Slocomb, F. F., & Co., Incorporated. (See Flanagan, James U., assignor.)
Slocum, Albert, Milwaukee, Wis. Apparatus for sizing and shaping hats and the like. No. 1,343,887; June 15; v. 275; p. 564.
Slocum, Avram & Slocum Laboratories. (See Burchett, Walter J., assignor.)
Slocum, Benjamin A., Rochester, N. Y. Photographic shutter. No. 1,333,041; Mar. 9; v. 272; p. 217.
Slocum, Conrad A., Haswell, Colo. Tractor-wheel. No. 1,338,105; Apr. 27; v. 273; p. 659.
Slocum, Edward M., Medan, Sumatra, Dutch East Indies, assignor to General Rubber Company. Process for treating latex and product obtained thereby. No. 1,332,925; Mar. 9; v. 272; p. 195.
Slocum, Edward M., Medan, Sumatra, Dutch East Indies, assignor to General Rubber Company. Rubber composition and production thereof. No. 1,332,926; Mar. 9; v. 272; p. 195.
Slocum, George E., Cleveland, Ohio, assignor to Westinghouse Electric and Manufacturing Company. Starting mechanism for electric motors. No. 1,343,411; June 15; v. 275; p. 469.
Slocum, George E., Cleveland, Ohio, assignor to Westinghouse Electric and Manufacturing Company. Motor-control system. No. 1,363,681; Dec. 28; v. 281; p. 669.
Slocum Laboratories. (See Avram, Mois H., assignor.)
Slocum, Louise S., Brooksville, Fla. Comfort-frame. No. 1,341,483; May 25; v. 274; p. 740.
Sloe, Joseph E. (See Lobar, Abraham J., assignor.)
Slonek, Frank G., assignor to R. M. Hvid Company, Chicago, Ill. Fuel-valve. No. 1,346,267; July 13; v. 276; p. 247.
Sloneker, Samuel S. (See Formway, V. L., and Sloneker.)
Sloper, Thomas, Devizes, England. Beaded strip of metal and rolling same. No. 1,343,753; June 15; v. 275; p. 537.
Sloper, Thomas, Devizes, England. Manufacture of pneumatic tires. No. 1,354,425; Sept. 28; v. 278; p. 674.
Sloppy, William E., Mount Jewett, Pa. Glass apparatus. No. 1,330,097; Feb. 10; v. 271; p. 172.
Sloss, William A., Toledo, Ohio. Production of ammonium sulfate. No. 1,328,342; Jan. 20; v. 270; p. 372.
Slough, Frank M., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone system. No. 1,351,799; Sept. 7; v. 278; p. 16.
Slough, Frank M., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone system. No. 1,351,800; Sept. 7; v. 278; p. 17.
Slough, Frank M., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Ringing-tone circuit. No. 1,354,347; Sept. 28; v. 278; p. 658.
Slough, Frank M., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Selector-switch. No. 1,363,364; Dec. 28; v. 281; p. 608.
Slough, Frank M., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Automatic selector-switch. No. 1,363,365; Dec. 28; v. 281; p. 609.
Slowey, Thomas J., Baltimore, Md. Record-cleaner. No. 1,335,352; Mar. 30; v. 272; p. 818.
Slusser, Leland D., Ottawa, Ohio. Internal-combustion engine. No. 1,356,792; Oct. 26; v. 279; p. 600.
Sly, Cephas P., East Aurora, N. Y. Chain saw. No. 1,363,171; Dec. 21; v. 281; p. 531.
Slye, John Q., and S. H. Bishop, Washington, D. C. Support for moth-repellent holders. No. 1,344,318; June 22; v. 275; p. 712.
Small, Arthur E., Chicago, Ill. Spacer for reinforcing elements of concrete structures. No. 1,356,021; Oct. 19; v. 279; p. 402.
Small, Chesley T., St. Louis, Mo. Seaming-roll. No. 1,340,842; May 18; v. 274; p. 544.
Small, Edward E., Portland, Oreg. Gas generator and burner. No. 1,329,862; Feb. 3; v. 271; p. 97.
Small, Frederick P., Ridgefield, N. J. Combined waybill, accounting, and receipt appliance. No. 1,330,726; Feb. 10; v. 271; p. 289.
Small, Harry E., Norfolk, Va. Hammer. No. 1,335,615; Mar. 30; v. 272; p. 867.
Small, James W., Chicago, Ill. Bottle-capper. No. 1,350,477; Aug. 24; v. 277; p. 629.
Small, John G. (See Small, William and J. G.)
Small, John W. (See Langton, George H., assignor.)
Small, John W., Burlington, N. C. Threading attachment for shuttles of looms. No. 1,353,076; Sept. 14; v. 278; p. 301.
Small, Kenneth I., New York, N. Y., assignor to G. T. Horton, Chicago, Ill. Tank. No. 1,343,412; June 15; v. 275; p. 469.
Small, Nathan, assignor to The Safety Steering Device Manufacturing Company, Baltimore, Md. Steering device. No. 1,339,294; May 4; v. 274; p. 118.
Small, Ralph B. (See Whitaker, Samuel T., assignor.)
Small, Ralph H., assignor, by mesne assignments, to Rieber Laboratories, San Francisco, Calif. X-ray tube. No. 1,331,967; Feb. 24; v. 271; p. 612.
Small, Ray P., San Diego, Calif. Trip-hook. No. 1,333,511; Mar. 9; v. 272; p. 304.
Small, Robert M., Pittsburgh, Pa. Securing device. No. 1,361,917; Dec. 14; v. 281; p. 234.
Small, Warren. (See La Tour, L., and Munnell, assignors.)
Small, William and J. G., Paterson, N. J. Vehicle-tire. No. 1,346,514; July 13; v. 276; p. 296.
Smallbone, Harry E., assignor to King Sewing Machine Company, Buffalo, N. Y. Mounting for shuttle-operating levers. No. 1,348,965; Aug. 10; v. 277; p. 213.
Smalley, Edward H., San Francisco, Calif. Hairpin. No. 1,362,827; Dec. 21; v. 281; p. 465.
Smalley, Edwin L., East Orange, N. J. Electric furnace. No. 1,346,854; July 20; v. 276; p. 422.
Smalley General Co. (See Martin, Percy W., assignor.)
Smalley, J. H., *et al.* (See Rollins, William C., assignor.)
Smalley Manufacturing Company. (See Frick, Orlando C., assignor.)
Smalley, Paul C., Newark, N. J. Flash-light device. No. 1,346,138; July 13; v. 276; p. 222.
Smallwood, Alfred, London, England. Furnace. No. 1,335,202; Mar. 30; v. 272; p. 790.

Digitized by Google

Alphabetical list of patentees—Continued.

Smallwood, Alfred, London, England. Furnace. No. 1,335,203; Mar. 30; v. 272; p. 790.
Smallwood, Alfred, London, England. Furnace. No. 1,335,204; Mar. 30; v. 272; p. 790.
Smallwood, Alfred, Highgate, London, England. Furnace for the annealing, hardening, quenching, or like heat treatment of metals and the like. No. 1,339,424; May 11; v. 274; p. 219.
Smallwood, Alfred, London, England. Furnace. No. 1,351,801; Sept. 7; v. 278; p. 17.
Smarch, Frank, Anaconda, Mont. Protector for trommel-spokes. No. 1,351,699; Aug. 31; v. 277; p. 929.
Smart, Gertrude A., Madison, Nebr. Garment and bandage fastener. No. 1,355,431; Oct. 12; v. 279; p. 246.
Smart, James S., Chicago, Ill. Combined collar-button and tie-guard. No. 1,362,828; Dec. 21; v. 281; p. 465.
Smart, Mellen U., Allston, Mass. Ice-skate. No. 1,358,591; Nov. 9; v. 280; p. 332.
Smart, Rupert B., Chicago, Ill. Addressograph. No. 1,337,970; Apr. 20; v. 273; p. 565.
Smart, W. L. (See Rashell, Edward A., assignor.)
Smedberg, John W., assignor of one-half to G. L. Maltby, Jamestown, N. Y. Track-circuit relay for railway-crossing signals. No. 1,357,428; Nov. 2; v. 280; p. 43.
Smedley, Thomas J. (See La Master, Vernon E., assignor.)
Smelser, Jess, Topeka, Kans. Door. No. 1,345,967; July 6; v. 276; p. 127.
Smerdon, Wm., *et al.* (See Abbey, Eddie G., assignor.)
Smethport Glass Company. (See Douchamp, Henry J., assignor.)
Smidth, F. L., & Co. (See Larsen, Axel, assignor.)
Smigielski, Stanley, Detroit, Mich. Figure toy. No. 1,327,359; Jan. 6; v. 270; p. 89.
Smigielski, Stanley, Detroit, Mich. Whirligig. No. 1,327,360; Jan. 6; v. 270; p. 89.
Smiley, Glenn A., Fort Wayne, and O. Smiley, Indianapolis, Ind. Railway-ticket. No. 1,341,346; May 25; v. 274; p. 713.
Smiley, Orvall. (See Smiley, Glenn A. and O.)
Smiley, Orvall, Indianapolis, Ind. Motor-stethoscope. No. 1,340,299; May 18; v. 274; p. 442.
Smiley, Orvall, Indianapolis, Ind. Motor-stethoscope. No. 1,340,300; May 18; v. 274; p. 442.
Smiley, Orvall, and D. A. Anderson, Indianapolis, Ind. Amplifier for stethoscopes. No. 1,363,929; Dec. 28; v. 281; p. 718.
Smiley, Robert R., Goodman, Wis. Coupling for cables. No. 1,355,857; Oct. 19; v. 279; p. 370.
Smiley, William E., Cazenovia, N. Y. Pinch-bar. No. 1,329,436; Feb. 3; v. 271; p. 17.
Smit, Harry, New York, N. Y. (Reissue.) Surgical instrument. No. 14,923; July 20; v. 276; p. 547.
Smith, A. J., Hampton township, Bay Co., Mich. Aeronautical machine. No. 1,358,257; Nov. 9; v. 280; p. 264.
Smith, A. O., Corporation. (See Adams, J. L., Jr., and Welch, assignors.)
Smith, A. O., Corporation. (See Adams, James L., Jr.)
Smith, A. O., Corporation. (See Burgess, Edward W., assignor.)
Smith, A. O., Corporation. (See Fay, Joseph W., assignor.)
Smith, A. O., Corporation. (See Miller, Henry, assignor.)
Smith, A. O., Corporation. (See Smith, C. S., and Ziska, assignors.)
Smith, A. O., Corporation. (See Stresau, Richard, assignor.)
Smith, Adam M., assignor of one-half to Atlas Metal Parts Company, Milwaukee, Wis. Spinning-top. No. 1,355,514; Oct. 12; v. 279; p. 263.
Smith, Albert D., Detroit, Mich. Feed for sewing-machines. No. 1,329,636; Feb. 3; v. 271; p. 54.
Smith, Albert D., Detroit, Mich. Rotary take-up for sewing-machines. No. 1,329,637; Feb. 3; v. 271; p. 55.
Smith, Albert D., Detroit, Mich. Thread tension, holder, and cutter for sewing-machines. No. 1,329,638; Feb. 3; v. 271; p. 55.
Smith, Albert D., Detroit, Mich. Feed mechanism for sewing-machines. No. 1,341,388; May 25; v. 274; p. 721.
Smith, Albert D., Seattle, Wash. Truck attachment for automobiles. No. 1,363,022; Dec. 21; v. 281; p. 502.
Smith, Albert G., and B. E. Broadwell, Niagara Falls, N. Y. Furnace construction. No. 1,351,305; Aug. 31; v. 277; p. 852.
Smith, Albert H., Darby, Pa. Interchangeable tooth. No. 1,334,119; Mar. 16; v. 272; p. 480.
Smith, Albert W., and W. R. Veazey, Cleveland, Ohio, assignors to The Dow Chemical Company, Midland, Mich. Making metallic sodium. No. 1,334,179; Mar. 16; v. 272; p. 491.
Smith, Alexander, & Sons Carpet Company. (See Tymeson, Eugene, assignor.)
Smith, Alexander, Jr., New York, N. Y. Foot-pressure reflector. No. 1,334,810; Mar. 23; v. 272; p. 656.
Smith, Alfred A. (See Simonton, Frank H., assignor.)
Smith, Alfred B., Aberdeen, Wash. Combination instrument. No. 1,357,481; Nov. 2; v. 280; p. 53.
Smith, Allen, Jr., San Diego, Calif. Insect-swatter. No. 1,342,974; June 8; v. 275; p. 320.
Smith, Allen A., Great Notch, N. J. Combination-packing. No. 1,360,593; Nov. 30; v. 280; p. 883.
Smith, Alva B. (See Hill, W. P., and Smith.)
Smith, Amos H., Brooklyn, assignor to American Bank Note Company, New York, N. Y. Delivery mechanism for printing-machines. No. 1,342,187; June 1; v. 275; p. 113.
Smith, Amzy L. (See Myers, W. S., and Smith.)
Smith, Andrew, Hamden, assignor to Winchester Repeating Arms Co., New Haven, Conn. Pocket-knife. No. 1,359,760; Nov. 23; v. 280; p. 651.
Smith, Andrew, and R. R. Shenk, Chicago, Ill. Game-table. No. 1,349,587; Aug. 17; v. 277; p. 410.
Smith, Andrew M. (See Mason and Smith.)
Smith, Arthur A., Portland, Me. Machine for cutting doughnuts, cakes, &c. No. 1,353,077; Sept. 14; v. 278; p. 302.
Smith, Arthur A., Portland, Me. Automobile-tire remover. No. 1,353,078; Sept. 14; v. 278; p. 302.
Smith, Arthur E., Chicago, Ill. Instrument for producing intra-osseous anesthesia. No. 1,328,459; Jan. 20; v. 270; p. 304.
Smith, Arthur E., Hartford, N. Y. Automatic train-stop and speed-control device. No. 1,356,318; Oct. 19; v. 279; p. 461.
Smith, Arthur G. (See Preston, Grace D., assignor.)
Smith, Arthur L., Ashtabula, Ohio. Electric-lamp socket. No. 1,331,287; Feb. 17; v. 271; p. 463.
Smith, Arthur L., Portland, Oreg. Internal-combustion motor. No. 1,336,392; Apr. 6; v. 273; p. 130.
Smith, Arthur L., Melrose, Mass. Spiral stairway. No. 1,361,918; Dec. 14; v. 281; p. 235.
Smith, Arthur M., Cleveland, Ohio. Apparatus for producing coke. No. 1,346,515; July 13; v. 276; p. 296.
Smith, Arthur R., Fort Wayne, Ind. Airplane. No. 1,346,472; July 13; v. 276; p. 288.
Smith, Arthur R., Fort Wayne, Ind. Airplane. No. 1,361,502; Dec. 7; v. 281; p. 105.
Smith, Arthur V. (See Kissell, Isaac J., assignor.)
Smith, Arthur W., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,335,993; Apr. 6; v. 273; p. 55.
Smith, Arthur W., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,342,513; June 8; v. 275; p. 229.
Smith, Benjamin H., Turtle Creek, Pa., assignor to Westinghouse Electric & Manufacturing Company. Relay. No. 1,344,730; June 29; v. 275; p. 858.
Smith, Benjamin H., Turtle Creek, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical protective device. No. 1,354,142; Sept. 28; v. 278; p. 617.
Smith, Benjamin H., Turtle Creek, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical measuring instrument. No. 1,355,515; Oct. 12; v. 279; p. 263.
Smith, Benjamin S., Manly, near Sydney, New South Wales, Australia. Power-loom for weaving double pile or tufted carpets and other fabrics. No. 1,330,917; Feb. 17; v. 271; p. 394.
Smith, Berrien H., Brooklyn, N. Y. Candy mold and press. No. 1,330,286; Feb. 10; v. 271; p. 207.
Smith, Bradley S., Buffalo, N. Y. Cabinet. No. 1,353,974; Sept. 28; v. 278; p. 582.
Smith, Burns L., Syracuse, N. Y. Heat treatment for castings. No. 1,328,851; Jan. 27; v. 270; p. 497.
Smith, Burns L., Syracuse, N. Y. Apparatus for casting hollow one-piece spoke-wheels. No. 1,328,852; Jan. 27; v. 270; p. 497.
Smith, Burrell S., Pueblo, Colo. Mud-chain hook. No. 1,334,322; Mar. 23; v. 272; p. 564.
Smith, C. L., and E. S. Webster, assignors, by mesne assignments, to Smith One Heat System, South Bend, Ind. Air-bag. No. 1,356,173; Oct. 19; v. 279; p. 433.
Smith Cannery Machine Co. (See Waugh, Edward H., assignor.)
Smith, Charles, Providence, R. I. Automatic machine for making frames for wreaths. No. 1,351,009; Aug. 24; v. 277; p. 730.
Smith, Charles E., Redondo Beach, Calif. Speculum. No. 1,358,473; Nov. 9; v. 280; p. 309.
Smith, Charles F., Watertown, N. Y., assignor to Howland Bag and Paper Company, Dexter, N. Y. Paper-bag machine. No. 1,333,285; Mar. 9; v. 272; p. 262.
Smith, Charles H., Short Hills, N. J., assignor to International Coal Products Corporation, Richmond, Va. Manufacturing briquets. No. 1,334,180; Mar. 16; v. 272; p. 491.
Smith, Charles L. (See Fehlhaber, W., and Smith.)
Smith, Charles L., Regan, N. D. Fish-lure. No. 1,338,877; May 4; v. 274; p. 42.
Smith, Charles M., Bellingham, Wash. Auxiliary automobile-seat. No. 1,328,105; Jan. 13; v. 270; p. 291.
Smith, Charles M., Van Wert, Ohio. Detachable emergency-tire. No. 1,332,416; Mar. 2; v. 272; p. 46.
Smith, Charles P., Louisville, Ky. Antiskid device for vehicle-wheels. No. 1,331,945; Feb. 24; v. 271; p. 607.
Smith, Charles S., and A. Ziska, Jr., assignors to A. O. Smith Corporation, Milwaukee, Wis. Drawing-press. No. 1,356,748; Oct. 26; v. 279; p. 591.

Digitized by Google

Smith, Charles W., San Antonio, Tex. Charge-moistening device for internal-combustion engines. No. 1,359,761; Nov. 23; v. 280; p. 651.
Smith, Charles W., and H. S. Kidwell, Chicago, Ill. Roll-film-developing rack. No. 1,361,192; Dec. 7; v. 281; p. 42.
Smith, Christian, Detroit, Mich. Brush. No. 1,363,282; Dec. 28; v. 281; p. 598.
Smith, Christian N., Elgin, Ill. Safety plate-holder for electrotype and stereotype shaving machines. No. 1,349,736; Aug. 17; v. 277; p. 439.
Smith, Clarence E. (See Mesker and Smith.)
Smith, Clarence S., *et al.* (See Neibel, De Witt E., assignor.)
Smith, Claud F., Kalamazoo, Mich. Signal device. No. 1,336,489; Apr. 13; v. 273; p. 207.
Smith, Claud R. (See French, A. W., and Smith.)
Smith, Cloyde H., San Jose, Calif., assignor of one-half to G. M. Matzet, (now by judicial change of name G. M. Malton,) Brooklyn, N. Y. Printer's reducing-gage. No. 1,330,358; Feb. 10; v. 271; p. 220.
Smith, Clyde, Chicago, Ill. Nutcracker. No. 1,344,731; June 29; v. 275; p. 858.
Smith, Clyde L., and E. S. Webster, assignors, by mesne assignments, to Smith One Heat System, South Bend, Ind. Rasping-disk. No. 1,347,298; July 20; v. 276; p. 510.
Smith, Clyde L., and E. S. Webster, assignors, by mesne assignments, to Smith One Heat System, South Bend, Ind. Rasping-wheel. No. 1,347,299; July 20; v. 276; p. 510.
Smith, Clyde L., and E. S. Webster, assignors, by mesne assignments, to Smith One Heat System, South Bend, Ind. Tire-vulcanizing mold. No. 1,358,120; Nov. 9; v. 280; p. 238.
Smith and Coventry. (See Walker, Malcolm, assignor.)
Smith & Coventry. (See Wright, Isaac H., assignor.)
Smith, Daniel D., Valdosta, Ga. Insect-destroyer. No. 1,351,407; Aug. 31; v. 297; p. 873.
Smith, Daniel H., assignor of one-fourth to D. T. Little, Shirley, Ark. Mechanical movements. No. 1,344,732; June 29; v. 275; p. 858.
Smith, David C., Schenectady, N. Y. Paint. No. 1,348,904; Aug. 10; v. 277; p. 202.
Smith, David J., London, England. Gas-producer for propelling vehicles. No. 1,327,495; Jan. 6; v. 270; p. 115.
Smith, David J., Jr., Washington, D. C. Motor-operated gun. No. 1,352,319; Sept. 7; v. 278; p. 116.
Smith, David M., Garden Home, assignor of one-half to H. B. Dyer, Portland, Oreg. Vise. No. 1,332,364; Mar. 2; v. 272; p. 37.
Smith, David S., Arlington, N. J. Exposure-meter. No. 1,358,372; Nov. 9; v. 280; p. 309.
Smith, Delbert E., Louisville, Nebr. Hair-cutting device. No. 1,329,437; Feb. 3; v. 271; p. 17.
Smith, Douglas. (See Smith, Elizabeth J., and D.)
Smith, Earl G., Crandon, Wis. Valve-control mechanism. No. 1,347,300; July 20; v. 276; p. 510.
Smith, Earl R., Pittsburgh, Pa. Bathing-platform for infants. No. 1,327,295; Jan. 6; v. 270; p. 77.
Smith, Edward A., New York, N. Y. Protecting device for ships. No. 1,338,706; May 4; v. 274; p. 11.
Smith, Edward A., New York, N. Y. Door. No. 1,346,268; July 13; v. 276; p. 247.
Smith, Edwin J., London, England. Door-bolt. No. 1,345,031; June 29; v. 275; p. 915.
Smith, Edwin R., Paris, Tex. Bottle-holder. No. 1,338,106; Apr. 27; v. 273; p. 660.
Smith, Edwin W., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Splitting-machine. No. 1,334,823; Mar. 23; v. 272; p. 564.
Smith, Edwin W., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Feeding device. No. 1,358,703; Nov. 16; v. 280; p. 417.
Smith, Edwin W., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Marking-machine. No. 1,360,460; Nov. 30; v. 280; p. 857.
Smith, Elizabeth J., Larchmont, N. Y. Snap-fastener. No. 1,360,459; Nov. 30; v. 280; p. 857.
Smith, Elizabeth J. and D., Larchmont, N. Y. Snap-fastener. No. 1,352,153; Sept. 7; v. 278; p. 85.
Smith, Elmer J., San Jose, Calif. Locking device for automobile-steering-knuckle arms. No. 1,338,878; Mar. 16; v. 272; p. 434.
Smith, Elmer L., assignor to Package Machinery Company, Springfield, Mass. Wrapping-machine. No. 1,330,354; Feb. 10; v. 271; p. 220.
Smith, Elsie M. (See Smith, Henry C., assignor.)
Smith, Elwin J., Rome, N. Y. Automobile direction-indicator. No. 1,354,628; Oct. 5; v. 279; p. 37.
Smith, Elwin J., Rome, N. Y. Ball-bearing caster. No. 1,356,566; Oct. 26; v. 279; p. 555.
Smith Engineering Works. (See Smith, T. L., and Sanborn, assignor.)
Smith, Eric M., Keynsham, near Bristol, and A. W. Winsall, Keynsham, England. Chuck for holding drills, reamers, and the like. No. 1,343,795; June 15; v. 275; p. 545.
Smith, Ernest E., Clapham Common, London, England. Parachute. No. 1,354,225; Sept. 28; v. 278; p. 634.
Smith, Ernest F. (See Hescock, E. N., and Smith.)
Smith, Ernest J., assignor to The Goss Printing Press Company, Chicago, Ill. Inking mechanism. No. 1,338,044; Apr. 27; v. 273; p. 648.
Smith, Ernest L., Sabula, Iowa. Hairpin. No. 1,353,079; Sept. 14; v. 278; p. 302.
Smith, Eugene, Tooele, Utah. Sash-cord fastener and fulcrum for window-sashes. No. 1,358,121; Nov. 9; v. 280; p. 238.
Smith, Evelina P., Chicago, Ill. Couch. No. 1,339,608; May 11; v. 274; p. 255.
Smith, Ezekiel M., Birmingham, Ala. Headlight. No. 1,331,592; Feb. 24; v. 271; p. 541.
Smith, Ezekiel M., Birmingham, Ala. Artificial fish-bait. No. 1,355,858; Oct. 19; v. 279; p. 370.
Smith, Fay L., Mount Vernon, Ohio. Pan or plate lifter. No. 1,356,411; Oct. 19; v. 279; p. 479.
Smith, Floyd, Aerial Equipment Company. (See Smith, Floyd.)
Smith, Floyd, San Diego, Calif., assignor to Floyd Smith Aerial Equipment Company. Parachute. No. 1,340,423; May 18; v. 274; p. 466.
Smith, Floyd C. (See Bissell, C. H., and Smith.)
Smith, Francis B., San Francisco, Calif. Concrete wall construction. No. 1,359,283; Nov. 16; v. 280; p. 510.
Smith, Frank A., New York, N. Y. Pleasure-railway. No. 1,356,412; Oct. 19; v. 279; p. 479.
Smith, Frank C., Minneapolis, Minn. Ventilator attachment. No. 1,352,843; Sept. 14; v. 278; p. 256.
Smith, Frank F., Hardware Company. (See Smith, Frank F., assignor.)
Smith, Frank F., assignor to Frank F. Smith Hardware Company, Newark, N. J. Door-lock mechanism. No. 1,357,007; Oct. 26; v. 279; p. 642.
Smith, Frank J., New York, N. Y. Printer's cabinet. No. 1,341,889; May 25; v. 274; p. 722.
Smith, Frank M., Chicago, Ill. Dry-separator. No. 1,346,610; July 13; v. 276; p. 315.
Smith, Franklin P. (See Josler, Angelo, assignor.)
Smith, Franklin S., Philadelphia, Pa. Destroying insect life. No. 1,352,699; Sept. 14; v. 278; p. 227.
Smith, Fred P., *et al.*, trustee. (See Allen, J. M., Smith, and Tucker.)
Smith, Frederick, London, Ontario, Canada. Luggage-carrier for automobiles. No. 1,357,736; Nov. 2; v. 280; p. 102.
Smith, Frederick C., Marion, Ohio. Foot-throttle-controlling mechanism. No. 1,343,378; June 15; v. 275; p. 462.
Smith, Frederick G. (See Blackburn, E., and Smith.)
Smith, Freeman D. (See Hall, C. S., and Smith.)
Smith, Friend W., assignor to The Bassick Company, Bridgeport, Conn. Sliding shoe for furniture. No. 1,347,720; July 27; v. 276; p. 650.
Smith and Furbush Machine Company. (See Coulston, Herbert V., assignor.)
Smith, Garfield P., Provincetown, Mass. Stage appliance. No. 1,330,452; Feb. 10; v. 271; p. 238.
Smith Gas Engineering Company, The. (See Smith, Harry F., assignor.)
Smith, George A., Toronto, Ontario, Canada. Reinforcing device for concrete structures. No. 1,331,288; Feb. 17; v. 271; p. 463.
Smith, George A., Seattle, Wash. Ratchet-wrench. No. 1,338,257; Apr. 27; v. 273; p. 688.
Smith, George A., Omaha, Nebr. No. 1,343,163; June 8; v. 275; p. 357.
Smith, George A., Omaha, Nebr. Drum-beater. No. 1,343,164; June 8; v. 275; p. 358.
Smith, George A., South Hill, Va. Cut-off sawing apparatus and using same. No. 1,346,269; July 13; v. 276; p. 248.
Smith, George F., Germantown, Pa. Auto-lock. No. 1,336,384; Apr. 6; v. 273; p. 129.
Smith, George F., Buffalo, N. Y. Flush-valve for water-closets. No. 1,352,551; Sept. 14; v. 278; p. 197.
Smith, George H. (See Dunbar, H. W., Turner, and Smith.)
Smith, George H. (See Macnab, J., and Smith.)
Smith, George H., Columbus, Ohio. Beet-topper. No. 1,354,857; Oct. 5; v. 279; p. 82.
Smith, George H., Providence, assignor to C. D. Kenney, Cranston, R. I. Curtain-rod fixture. No. 1,347,525; July 27; v. 276; p. 611.
Smith, George H., Providence, assignor to C. D. Kenney, Cranston, R. I. Curtain-support. No. 1,350,846; Aug. 24; v. 277; p. 700.
Smith, Gerald F., Braddock township, Allegheny county, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,327,784; Jan. 13; v. 270; p. 230.
Smith, Gerard W., assignor to Oneida Community, Limited, Oneida, N. Y. Jaw-trap. No. 1,349,697; Aug. 17; v. 277; p. 431.
Smith, Gilbert A., Des Moines, Iowa. Grease-detaining device. No. 1,327,173; Jan. 6; v. 270; p. 55.
Smith, Grant E., assignor to Pouvailsmith Corporation, Poughkeepsie, N. Y. Steering-post bearing. No. 1,339,987; May 11; v. 274; p. 326.
Smith, Grover A., West Salem, Ill. Internal-combustion engine. No. 1,361,503; Dec. 7; v. 281; p. 106.

Digitized by Google

Alphabetical list of patentees—Continued.

Smith, Guy E., Oklahoma, Okla. Tool-holder. No. 1,357,123; Oct. 26; v. 279; p. 665.
Smith, H. B., Company, The. (See Reed, Richard D., assignor.)
Smith, H. W. (See Spratt, George A., assignor.)
Smith, Harry, Dayton, Ohio. Hay-loading device. No. 1,353,975; Sept. 28; v. 278; p. 583.
Smith, Harry E. (See Duvall, G. W., Beebe, and Smith.)
Smith, Harry E., Berwyn, assignor to Eastern Foundry and Machine Company, Philadelphia, Pa. Broaching. No. 1,359,541; Nov. 23; v. 280; p. 608.
Smith, Harry F., Lexington, Ohio, assignor to The Smith Gas Engineering Company. Conveyer. No. 1,335,205; Mar. 30; v. 272; p. 791.
Smith, Harry F., Lexington, Ohio, assignor to The Smith Gas Engineering Company. System of gas control. No. 1,348,379; Aug. 3; v. 277; p. 49.
Smith, Harry F., Lexington, Ohio, assignor to The Smith Gas Engineering Company. Gas purification. No. 1,358,030; Nov. 9; v. 280; p. 220.
Smith, Harry F., Lexington, Ohio, assignor to The Smith Gas Engineering Company. Gas purification. No. 1,358,031; Nov. 9; v. 280; p. 220.
Smith, Harry F., Lexington, Ohio, assignor to The Smith Gas Engineering Company. Gas purification. No. 1,358,032; Nov. 9; v. 280; p. 220.
Smith, Harry F., Dayton, Ohio, assignor to The Smith Gas Engineering Company. Apparatus for purifying gases. No. 1,348,966; Aug. 10; v. 277; p. 214.
Smith, Harry J., *et al.* (See Vyne, Ray N., assignor.)
Smith, Harry J., Lakewood, Ohio. Automatic belt-tightener. No. 1,348,905; Aug. 10; v. 277; p. 202.
Smith, Harry J., assignor of one-half to J. D. Dodge, Brooklyn, N. Y. Binding and suspending device. No. 1,359,117; Nov. 16; v. 280; p. 479.
Smith, Harry K., Hamilton, Md. Bail-ear fastening for cans. No. 1,353,080; Sept. 14; v. 278; p. 302.
Smith, Harry M., Daly City, assignor to The Colmar Burner Company, San Francisco, Calif. Gas-generator. No. 1,349,923; Aug. 17; v. 277; p. 473.
Smith, Harry M., Daly City, Calif., assignor to Colmar Burner Company. Preheating device for liquid-fuel burners. No. 1,362,829; Dec. 21; v. 281; p. 465.
Smith, Harry O., Kansas City, Mo. Fastener. No. 1,341,600; May 25; v. 274; p. 762.
Smith, Harvey G., Los Angeles, assignor of one-half to V. B. Liebmann, San Diego, Calif. Windshield. No. 1,352,094; Sept. 7; v. 278; p. 74.
Smith, Henrietta B., Charleston, S. C. Snap-fastener device. No. 1,345,267; June 29; v. 275; p. 961.
Smith, Henry, assignor of one-half to J. E. Bridgers, Richmond, Va. Key-ring attachment. No. 1,339,631; May 11; v. 274; p. 259.
Smith, Henry A., assignor of one-fourth to W. D. Sabey, West Albany, N. Y. Station-indicator. No. 1,326,980; Jan. 6; v. 270; p. 19.
Smith, Henry A. W., Chatham, Va. Shears. No. 1,359,762; Nov. 23; v. 280; p. 652.
Smith, Henry C., Clintonville, Conn., assignor of one-half to E. M. Smith, Richmond Hills, N. Y. Cultivator. No. 1,342,302; June 1; v. 275; p. 135.
Smith, Henry J. (See De Graff, George A., assignor.)
Smith, Henry L., Paterson, N. J. Weather-strip. No. 1,356,229; Oct. 19; v. 279; p. 444.
Smith, Henry R. (See Repass, Charles L., assignor.)
Smith, Henry S., New York, N. Y., and G. O. Curme, Jr., Pittsburgh, Pa., assignors to The Prest-O-Lite Co., Inc., New York, N. Y. Solvent for acetylene gas and the like. No. 1,332,525; Mar. 2; v. 272; p. 68.
Smith, Henry W., Washington, D. C. Cone-sack. No. 1,349,535; Aug. 10; v. 277; p. 326.
Smith, Hen[illegible]t, and L. L. Carpenter, Amoret, Mo. Shock-absorber. No. 1,354,465; Oct. 5; v. 279; p. 4.
Smith, Hercoert E., assignor to Spokane Mail Equipment Company, Spokane, Wash. Railway-mail delivery. No. 1,348,380; Aug. 3; v. 277; p. 49.
Smith, Herbert E., assignor to Spokane Mail Equipment Company, Spokane, Wash. Railway-mail delivery. No. 1,348,381; Aug. 3; v. 277; p. 50.
Smith, Herbert E., assignor to Spokane Mail Equipment Company, Spokane, Wash. Railway mail-delivery. No. 1,353,284; Sept. 21; v. 278; p. 401.
Smith, Herbert E., assignor to Spokane Mail Equipment Company, Spokane, Wash. Railway mail delivery. No. 1,363,366; Dec. 28; v. 281; p. 609.
Smith, Herbert J., Kearney, N. J., and E. P. Everett, Flushing, N. Y.; said Smith assignor to Everett Fibre Products Corporation. Die forming and trimming apparatus. No. 1,337,796; Apr. 20; v. 273; p. 531.
Smith, Herbert M., Buffalo, N. Y. Tire-support. No. 1,342,526; June 15; v. 275; p. 491.
Smith, Herbert M., assignor to Stanley Insulating Company, Great Barrington, Mass. Welding apparatus. No. 1,350,572; Aug. 24; v. 277; p. 648.
Smith, Herbert M., assignor to Stanley Insulating Company, Great Barrington, Mass. Means for holding formed metal pieces while they are being electrically welded. No. 1,351,445; Aug. 31; v. 277; p. 880.
Smith, Herbert M., assignor to Stanley Insulating Company, Great Barrington, Mass. Combination welding-machine. No. 1,351,446; Aug. 31; v. 277; p. 880.
Smith, Herbert M., assignor to Stanley Insulating Company, Great Barrington, Mass. Method and apparatus for making heat-insulated receptacles or the like. No. 1,360,809; Nov. 30; v. 280; p. 925.
Smith, Herbert M., assignor to Landers, Frary & Clark, New Britain, Conn. Vacuum-bottle. No. 1,352,844; Sept. 14; v. 278; p. 256.
Smith, Herbert W., Coon Rapids, Iowa. Window-shade bracket. No. 1,341,025; May 25; v. 274; p. 651.
Smith, Herschel C. (See Belt, W. M., and Smith.)
Smith, Hiram G. (See Ward, B. M., and Smith.)
Smith, Howard F. (See Nixon, Jeddy D., assignor.)
Smith, Howard F., Medicine Hat, Alberta, Canada. Wind-deflector for automobiles. No. 1,334,811; Mar. 23; v. 272; p. 656.
Smith, Hubert C., Birmingham, England. Gas-burner. No. 1,356,793; Oct. 26; v. 279; p. 600.
Smith, Irving B., Ambler, assignor to Leeds & Northrup Company, Philadelphia, Pa. Timing apparatus. No. 1,337,335; Apr. 20; v. 273; p. 444.
Smith, Irwin J., Menands, N. Y. Garment. No. 1,329,025; Jan. 27; v. 270; p. 530.
Smith, Isaac N., Newark, N. J. Lock for motor-vehicle steering-gears. No. 1,332,075; Feb. 24; v. 271; p. 632.
Smith, Isaac P., assignor to The Self Closing Gate Company, Lowpoint, Ill. Measuring - machine. No. 1,330,918; Feb. 17; v. 271; p. 395.
Smith, Jack, New York, N. Y. Scenic amusement apparatus. No. 1,340,570; May 18; v. 274; p. 494.
Smith, Jacob V., Mason City, Ill. Draining ponds or wet lands. No. 1,355,066; Oct. 5; v. 279; p. 123.
Smith, James, Bingham Canyon, Utah. Adjustable stove-pipe. No. 1,331,390; Feb. 17; v. 271; p. 482.
Smith, James A., Buffalo, N. Y. Flexible-sheet form for soft cuffs. No. 1,342,032; June 1; v. 275; p. 82.
Smith, James E. (See Nolte and Smith.)
Smith, James E., Urbana, Ill. Paring-knife. No. 1,331,880; Feb. 24; v. 271; p. 596.
Smith, James E., Pueblo, Colo. Pole. No. 1,348,063; July 27; v. 276; p. 719.
Smith, James E., assignor to Smith and Seper Company, St. Louis, Mo. Whirling seesaw. No. 1,344,965; June 29; v. 275; p. 902.
Smith, James E., assignor of one-third to G. Seper, St. Louis, Mo. Corn-cutter. No. 1,361,633; Dec. 7; v. 281; p. 132.
Smith, James F., Gaxney, S. C. Lug-strap support. No. 1,339,295; May 4; v. 274; p. 118.
Smith, James F., assignor of one-third to A. F. Ittner and one-third to A. H. Bradley, St. Louis, Mo. Talking-machine. No. 1,330,402; Feb. 10; v. 271; p. 229.
Smith, James H., Salisbury Mills, N. Y. Lifting-tongs. No. 1,350,675; Aug. 24; v. 277; p. 667.
Smith, James R., Mechanicsville, N. Y. Fuel-burner. No. 1,349,790; Aug. 17; v. 277; p. 449.
Smith, James T., Newark, N. J. Leather-press. No. 1,344,214; June 22; v. 275; p. 691.
Smith, James T., Tacoma, Wash. Derailment-brake. No. 1,353,794; Sept. 21; v. 278; p. 503.
Smith, James W., Sherman, Tex. Animal-trap. No. 1,357,530; Nov. 2; v. 280; p. 62.
Smith, Jay H., San Francisco, Calif. Air-bag for vulcanizers. No. 1,335,353; Mar. 30; v. 272; p. 818.
Smith, Jay H., San Francisco, Calif. Retreading-mold. No. 1,358,888; Nov. 16; v. 280; p. 437.
Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing-machine. No. 1,333,685; Mar. 16; v. 272; p. 399.
Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing-machine. No. 1,349,109; Aug. 10; v. 277; p. 242.
Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Support for typewriting-machines. No. 1,358,033; Nov. 9; v. 280; p. 220.
Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Carbon-sheet. No. 1,361,553; Dec. 7; v. 281; p. 116.
Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing-machine. No. 1,362,544; Dec. 14; v. 281; p. 357.
Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing-machine. No. 1,363,191; Dec. 21; v. 281; p. 535.
Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing-machine. No. 1,363,682; Dec. 28; v. 281; p. 670.
Smith, John B., South Orange, N. J. Means for promoting combustion. No. 1,353,432; Sept. 21; v. 278; p. 430.
Smith, John F., Los Angeles, Calif. Adjustable picture-frame. No. 1,338,258; Apr. 27; v. 273; p. 688.
Smith, John F., assessor to A. J. Boyd, Seattle, Wash. Gas-generator. No. 1,327,117; Jan. 6; v. 270; p. 45.
Smith, John H., Ellinwood, Kans. Straw-spreader. No. 1,338,045; Apr. 27; v. 273; p. 648.
Smith, John J. (See Roman, Charles A., assignor.)

Digitized by Google

Smith, John J., Brookline, assignor, by mesne assignments, to National Sewage and Garbage Corporation, Boston, Mass. Machine for treating sewage, garbage, and the like. No. 1,329,727; Feb. 3; v. 271; p. 71.
Smith, John L., assignor to Diamond Grinder Company, Cedar Falls, Iowa. Screen-shoe-actuating means for grist-mills. No. 1,335,464; Mar. 30; v. 272; p. 839.
Smith, John T., Hopkins, Minn. Attachment for threshing-machines. No. 1,350,847; Aug. 24; v. 277; p. 700.
Smith, John T., Lang Bay, British Columbia, Canada. Skid-oiler. No. 1,356,794; Oct. 26; v. 279; p. 600.
Smith, John W., Philadelphia, Pa. Internal-combustion engine. No. 1,329,811; Feb. 3; v. 271; p. 87.
Smith, John W., Philadelphia, Pa. Air-cooling mechanism for internal-combustion engines for flight-motors. No. 1,341,444; May 25; v. 274; p. 732.
Smith, John W., St. Helens, Oreg. Bevel. No. 1,336,102; Apr. 6; v. 273; p. 75.
Smith, Jonathan J., assignor of one-half to O. F. Petersen, Des Moines, Iowa. Hot-blast downdraft-furnace. No. 1,351,803; Sept. 7; v. 278; p. 17.
Smith, Joseph D., Marshalltown, Iowa. Door-operating means. No. 1,362,750; Dec. 21; v. 281; p. 449.
Smith, Joseph D., assignor of one-half to G. B. Beeson, Marshalltown, Iowa. Positive guard for circular table-saws. No. 1,362,545; Dec. 14; v. 281; p. 358.
Smith, Joseph E., Buffalo, N. Y. Clarinet-holder. No. 1,342,136; June 1; v. 275; p. 103.
Smith, Joseph H., assignor to W. J. Platt, Oakland, Calif. Rotary pump. No. 1,339,723; May 11; v. 274; p. 277.
Smith, Joseph I., The Dalles, Oreg. Fishing-reel. No. 1,328,696; Jan. 20; v. 270; p. 488.
Smith, Joseph J., Dorchester, Mass., assignor to Loose Wiles Biscuit Company, Long Island City, New York, N. Y. Device and mechanism for depositing coating upon food products. No. 1,346,270; July 13; v. 276; p. 248.
Smith, Joseph J., Jr., Benton Harbor, Mich. Valve for air-cooled spark-plugs. No. 1,363,623; Dec. 28; v. 281; p. 659.
Smith, Joseph N., & Company. (See Chamberlin, Clarence P., assignor.)
Smith, Joseph V., Pittsburgh, Pa. Implement-handle. No. 1,342,467; June 8; v. 275; p. 220.
Smith, Josiah H., assignor to W. H. Tigerman, Philadelphia, Pa. Suspension-railway switch. No. 1,359,542; Nov. 23; v. 280; p. 608.
Smith, Josiah T. (See Hoenig, Harry E., assignor.)
Smith, Karl D., assignor to Union Steam Pump Company, Battle Creek, Mich. Emulsifying-machine. No. 1,359,441; Nov. 16; v. 280; p. 543.
Smith, Karl D., Battle Creek, Mich., and B. Samelson, New York, N. Y., assignors to Union Steam Pump Company, Battle Creek, Mich. Rotary pump. No. 1,328,061; Jan. 13; v. 270; p. 282.
Smith, Kent H., Cleveland, Ohio. Grenade. No. 1,344,733; June 29; v. 275; p. 859.
Smith, Kleber W., Freeport, Me. Gasolene-delivery tank. No. 1,338,878; May 4; v. 274; p. 42.
Smith, Launcelot E. (See Zulver, C., and Smith.)
Smith, Launcelot E., South Shields, C. Zulver, London, and H. A. Thompson, North Shields, England. Liquid-fuel fitting for furnace-fronts. No. 1,353,795; Sept. 21; v. 278; p. 503.
Smith, Lee, Elwood, Iowa. Stock-feeding apparatus. No. 1,364,003; Dec. 28; v. 281; p. 732.
Smith, Leonard A., U. S. Army, assignor of one-half to A. H. Cannon, Washington, D. C. Combined range-finding, plotting, predicting, and gun-adjusting device. No. 1,346,430; July 13; v. 276; p. 279.
Smith, Le Roy M., Chicago, Ill. Automatic liquid-measuring appliance. No. 1,335,800; Apr. 6; v. 273; p. 18.
Smith, Lincoln G., Des Moines, Iowa. Boiler-furnace. No. 1,351,802; Sept. 7; v. 278; p. 17.
Smith, Lonzo B., Richwood, W. Va. Lock-seam for pipe-sections. No. 1,356,022; Oct. 19; v. 279; p. 402.
Smith, Louis, Illilyard, Wash. Exposure-table. No. 1,348,382; Aug. 3; v. 277; p. 50.
Smith, Louis, Illilyard, Wash. Exposure-table. No. 1,357,085; Oct. 26; v. 279; p. 658.
Smith, Louis G., Brockton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole-rounding machine. No. 1,331,789; Feb. 24; v. 271; p. 578.
Smith, Louis R., Lomita, Calif. Finishing and burnishing pliers. No. 1,352,552; Sept. 14; v. 278; p. 197.
Smith, Luton B., High Point, N. C. Upholstering apparatus. No. 1,345,268; June 29; v. 275; p. 961.
Smith, Malcom O., Indianapolis, Ind. Insulated and protected grid. No. 1,364,011; Dec. 28; v. 281; p. 734.
Smith, Manning J., Philadelphia, Pa. Belt. No. 1,356,890; Oct. 26; v. 279; p. 619.
Smith, Marie, *et al.* (See Holmes, Anderson M., assignor.)
Smith, Marion A., Salt Lake City, assignor to Liberty Beet Topper Company, Salt Lake county, Utah. Beet-topping machine. No. 1,344,966; June 29; v. 275; p. 902.
Smith, Mark. (See Steinle, G. A., Smith, and Taylor.)
Smith, Mark E., Erie, Pa. Centrifugal governor mechanism. No. 1,355,008; Oct. 5; v. 279; p. 111.
Smith, Maurice A., assignor to McKee Glass Company, Jeannette, Pa. Glass-annealing furnace. No. 1,342,233; June 1; v. 275; p. 122.
Smith, Michael J., Ithaca, assignor to W. A. Curless Co., Inc., New York, N. Y. Concrete-pipe machine. No. 1,359,543; Nov. 23; v. 280; p. 608.
Smith, Milo H. (See Vierling, Bartholomew, and Smith.)
Smith, Norman R., Eureka, assignor of one-half to B. Pallette, Los Angeles, Calif. Lumber-raft. No. 1,331,034; Feb. 17; v. 271; p. 417.
Smith, Oberlin, Bridgeton, N. J. Brake mechanism. No. 1,330,500; Feb. 10; v. 271; p. 247.
Smith, Oberlin, Bridgeton, N. J. Game apparatus. No. 1,362,642; Dec. 21; v. 281; p. 428.
Smith, Oliver A., Seattle, Wash. Milk-bottle hanger. No. 1,339,792; May 11; v. 274; p. 289.
Smith One Heat System. (See Smith, C. L., and Webster, assignors.)
Smith, Oscar, Springfield, Tenn. Demountable rim. No. 1,345,269; June 29; v. 275; p. 961.
Smith, Oscar A., Cleveland, Ohio. Priming and testing cup. No. 1,327,687; Jan. 13; v. 270; p. 212.
Smith, Oscar A., Cleveland, Ohio. Drain-cock. No. 1,345,032; June 29; v. 275; p. 915.
Smith, Oscar A., assignor to The National Acme Company, Cleveland, Ohio. Machine-screw. No. 1,330,098; Feb. 10; v. 271; p. 172.
Smith, Paul E., Henrietta, Tex. Fire-engine. No. 1,351,700; Aug. 31; v. 277; p. 930.
Smith, Percy, Detroit, Mich. Check-holder for railway-cars. No. 1,331,682; Feb. 24; v. 271; p. 558.
Smith, Percy, Highland Park, Mich. Vehicle-spring. No. 1,351,306; Aug. 31; v. 277; p. 852.
Smith, Percy R., Washington, D. C. Bolt-applying tool. No. 1,362,585; Dec. 14; v. 281; p. 365.
Smith, Peter R., Akron, Ohio. Calking device. No. 1,333,286; Mar. 9; v. 272; p. 262.
Smith, Philester, Rochester, N. Y. Vehicle. No. 1,328,343; Jan. 20; v. 270; p. 372.
Smith, Prince, Jr., Keighley, England. Doffing mechanism for flier spinning, twisting, doubling, and analogous machines. No. 1,351,701; Aug. 31; v. 277; p. 930.
Smith, Raymond A., Kinsley, Kans. Farm-derrick. No. 1,352,035; Sept. 7; v. 278; p. 62.
Smith, Raymond D., Arlington, Mass. Automatic circuit-breaker. No. 1,328,460; Jan. 20; v. 270; p. 394.
Smith, Raymond D., Arlington, assignor to Tremont Products Company, Boston, Mass. Thermostatically-controlled rotary switch. No. 1,334,181; Mar. 16; v. 272; p. 491.
Smith, Raymond D., assignor to Tremont Products Company, Boston, Mass. Delayed cut-off for Bunsen gas-burners. No. 1,340,843; May 18; v. 274; p. 545.
Smith, Raymond D., Arlington, assignor to Tremont Products Company, Boston, Mass. Lamp-dimming socket-switch. No. 1,343,689; June 15; v. 275; p. 524.
Smith, Raymond D., Arlington, assignor to Tremont Products Company, Boston, Mass. Heat-dissipating socket-switch. No. 1,343,690; June 15; v. 275; p. 524.
Smith, Raymond D., Arlington, assignor to Tremont Products Company, Boston, Mass. Control mechanism for tension-operated devices. No. 1,348,756; Aug. 3; v. 277; p. 120.
Smith, Raymond D., Milton, assignor to Tremont Products Company, Boston, Mass. Thermostatically-controlled device. No. 1,350,573; Aug. 24; v. 277; p. 648.
Smith, Raymond D., Milton, assignor to Tremont Products Company, Boston, Mass. Reciprocative actuating mechanism. No. 1,350,574; Aug. 24; v. 277; p. 648.
Smith, Raymond D., Milton, assignor to Tremont Products Company, Boston, Mass. Selective actuating mechanism. No. 1,350,575; Aug. 24; v. 277; p. 648.
Smith, Raymond D., assignor to Tremont Products Company, Boston, Mass. Multisocket switch. No. 1,353,433; Sept. 21; v. 278; p. 450.
Smith, Reuben S., Milwaukee, Wis. Drawing-press. No. 1,338,335; Apr. 27; v. 273; p. 703.
Smith, Reuben S., Milwaukee, Wis. Making curved flanged bars. No. 1,343,647; June 15; v. 275; p. 515.
Smith, Reuben S., Milwaukee, Wis. Magnetic feeding device for flanging-presses. No. 1,343,648; June 15; v. 275; p. 516.
Smith, Reuben S., Milwaukee, Wis. Metal wheel. No. 1,347,183; July 20; v. 276; p. 486.
Smith, Reuben S., Milwaukee, Wis. Electric-arc-welding machine. No. 1,347,184; July 20; v. 276; p. 486.
Smith, Reuben S., Milwaukee, Wis. Making curved flanged bars. No. 1,356,567; Oct. 26; v. 279; p. 556.
Smith, Reuben S., Milwaukee, Wis. Process and apparatus for producing metal blanks. No. 1,357,356; Nov. 2; v. 280; p. 30.
Smith, Reuben S., Milwaukee, Wis. Cross-bar-blanking press. No. 1,357,357; Nov. 2; v. 280; p. 30.
Smith, Reuben S., Milwaukee, Wis. Horizontal piercing-press. No. 1,357,358; Nov. 2; v. 280; p. 30.
Smith, Reuben S., assignor, by mesne assignments, to Briggs and Stratton Company, Milwaukee, Wis. Carbureter. No. 1,340,123; May 11; v. 274; p. 252.
Smith, Robert A., Mahwah, and J. J. Serrell, Elizabeth, assignors to Smith & Serrell, Mahwah, N. J. Flexible coupling device. No. 1,343,413; June 15; v. 275; p. 469.
Smith, Robert B., Stoughton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Eyeleting-machine. No. 1,351,138; Aug. 31; v. 277; p. 818.

Digitized by Google

Smith, Robert G., Irvington, N. J. Tool. No. 1,330,403; Feb. 10; v. 271; p. 229.
Smith, Robert H., Hendersonville, N. C. Sign-projector. No. 1,332,999; Mar. 9; v. 272; p. 209.
Smith, Robert L., Oak Bay, New Brunswick, Canada. Calk-sharpening machine. No. 1,335,354; Mar. 30; v. 272; p. 819.
Smith, Robert P., Chicago, Ill., assignor, by mesne assignments, to Service Invention & Development Company. Stamp-handling mechanism. No. 1,332,578; Mar. 2; v. 272; p. 77.
Smith, Robert W. J., Houston, Tex. Power-transmitting mechanism. No. 1,346,139; July 13; v. 276; p. 222.
Smith, Roscoe J., Newark, assignor to Edison Storage Battery Company, West Orange, N. J. Galvanic battery. No. 1,338,465; Apr. 27; v. 273; p. 727.
Smith, Ross, Terrell, Tex. Antiskid device. No. 1,331,391; Feb. 17; v. 271; p. 482.
Smith, S. Morgan, Company. (See Britcher, John C., assignor.)
Smith, S. Morgan, Company. (See Felthousen, John H., assignor.)
Smith, Samuel A., Oilton, Okla. Vehicle-spring. No. 1,333,999; Mar. 16; v. 272; p. 457.
Smith and Seper Company. (See Smith, James E., assignor.)
Smith & Serrell. (See Smith, R. A., and Serrell, assignors.)
Smith, Seth R., Los Angeles, Calif. Tool-box. No. 1,349,859; Aug. 17; v. 277; p. 462.
Smith, Simeon B., New London, Conn., assignor to Electric Boat Company. Sounding apparatus for submarine boats. No. 1,359,763; Nov. 23; v. 280; p. 652.
Smith, Sol. L. (See Gerau, George, assignor.)
Smith, Stanley G., assignor of one-half to William F. Freeman, Grand Rapids, Mich. Spring construction. No. 1,363,538; Dec. 28; v. 281; p. 642.
Smith, Stephen G., Brooklyn, N. Y. Dish-washing machine. No. 1,345,412; July 6; v. 276; p. 17.
Smith, T. L., Company, The. (See Brackenbury, Edward W., assignor.)
Smith, Temple C., East Orange, N. J., assignor to American Telephone and Telegraph Company. Reeling device. No. 1,332,927; Mar. 9; v. 272; p. 195.
Smith, Temple C., East Orange, N. J., assignor to American Telephone and Telegraph Company. Aerial-cable guide. No. 1,340,989; May 25; v. 274; p. 644.
Smith, Theodore M., assignor of one-half to H. Hagenau, New York, N. Y. Educational appliance. No. 1,343,095; June 8; v. 275; p. 344.
Smith, Thomas, Meadville, Pa. Rod-packing. No. 1,338,163; Apr. 27; v. 273; p. 670.
Smith, Thomas, Warrnambool, Victoria, Australia. Means for turning crank-pins and eccentrics and truing crank-shafts. No. 1,346,271; July 13; v. 276; p. 248.
Smith, Thomas H. (See Harriman, Frank H., assignor.)
Smith, Thomas K., Tulsa, Okla. Apparatus for separating gases and vapors from liquids. No. 1,350,576; Aug. 24; v. 277; p. 649.
Smith, Thomas L., and E. L. Sanborn, assignors to Smith Engineering Works, Milwaukee, Wis. Reduction-crusher. No. 1,355,922; Oct. 19; v. 279; p. 382.
Smith, Verna D. (See Smith, William B. and V. D.)
Smith, Vernon E. (See Williams, J. M., and Smith.)
Smith, Virgil L., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-transformer. No. 1,339,793; May 11; v. 274; p. 290.
Smith, W. A. (See Bowman, Levi M., assignor.)
Smith, Walter B. Springfield, Ohio. Beet-harvester. No. 1,347,596; July 27; v. 276; p. 625.
Smith, Walter H., Oklahoma, Okla. Cuff-button. No. 1,352,095; Sept. 7; v. 278; p. 74.
Smith, Walter H., Pittsburgh, Pa., assignor to Miller Saw-Trimmer Company. Wheel-guard. No. 1,329,935; Feb. 3; v. 271; p. 110.
Smith, Walter H., Pittsburgh, Pa., assignor to Miller Saw-Trimmer Company. Automatic press-feeding device. No. 1,331,392; Feb. 17; v. 271; p. 483.
Smith, Walter H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. No. 1,352,483; Sept. 14; v. 278; p. 183.
Smith, Walter K., Ellwood City, Pa. Tent. No. 1,342,234; June 1; v. 275; p. 122.
Smith, Walter R. (See Lawson, W. E., and Smith.)
Smith, Walter S., Brooklyn, N. Y. Ball-crank connection. No. 1,328,600; Jan. 20; v. 270; p. 421.
Smith, Watson R., R. L. Wilcox, and G. A. Franz, assignors to Jackson Cushion Spring Company, Jackson, Mich. Spring construction. No. 1,359,120; Nov. 16; v. 280; p. 479.
Smith, Webb L., San Francisco, Calif. Electrical plug. No. 1,329,555; Feb. 3; v. 271; p. 40.
Smith & Wesson. (See Reddie, David H., assignor.)
Smith, Wilbert L. (See Lee, Charles A., assignor.)
Smith, Wilfred B., Hobart, Tasmania, Australia. Pedimotive propelling-gear for bicycles, velocipedes, and the like. No. 1,349,588; Aug. 17; v. 277; p. 410.
Smith, Wilfred E. (See Eberman, William A., assignor.)
Smith, Willard A., Melrose, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Thread-handling machine. No. 1,356,795; Oct. 26; v. 279; p. 600.
Smith, Willard M., White Plains, N. Y. Glove. No. 1,355,859; Oct. 19; v. 279; p. 370.
Smith, William A., Springfield, Mo. Necktie form and holder. No. 1,344,248; June 22; v. 275; p. 697.
Smith, William A., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Pin-puller. No. 1,337,670; Apr. 20; v. 273; p. 507.
Smith, William A., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Valve for percussive tools. No. 1,343,649; June 15; v. 275; p. 516.
Smith, William A., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Mounting for rock-drills. No. 1,347,185; July 20; v. 276; p. 486.
Smith, William A., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Valve for percussive tool. No. 1,350,342; Aug. 24; v. 277; p. 601.
Smith, William A., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Valve. No. 1,352,036; Sept. 7; v. 278; p. 63.
Smith, William A., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Fluid-actuated reciprocating motor. No. 1,354,348; Sept. 28; v. 278; p. 659.
Smith, William A., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Percussive tool. No. 1,355,175; Oct. 12; v. 279; p. 197.
Smith, William A., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Mounting for drills. No. 1,358,889; Nov. 16; v. 280; p. 437.
Smith, William A., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Percussive-tool. No. 1,359,119; Nov. 16; v. 280; p. 479.
Smith, William A., Denver, Colo., assignor to Ingersoll-Rand Company, Jersey City, N. J. Impact-engine. No. 1,338,259; Apr. 27; v. 273; p. 688.
Smith, William A., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Rock-drill. No. 1,340,505; May 18; v. 274; p. 481.
Smith, William A., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Rock-drill. No. 1,345,270; June 29; v. 275; p. 961.
Smith, William A., Easton, Pa., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Drilling apparatus. No. 1,345,271; June 29; v. 275; p. 962.
Smith, William B., Philadelphia, Pa. Traveling-bag. No. 1,359,202; Nov. 16; v. 280; p. 495.
Smith, William B. and V. D., Lansing, Mich. Mail-box. No. 1,342,468; June 8; v. 275; p. 220.
Smith, William C., Chicago, Ill. Seamed-tube machine. No. 1,355,282; Oct. 12; v. 279; p. 218.
Smith, William E. (See Osgood, W. P., and Smith.)
Smith, William E. (See Ritter, John O., assignor.)
Smith, William E., Milltown, assignor to The Interwoven Mills, Inc., New Brunswick, N. J. Circular-knitting machine. No. 1,347,186; July 20; v. 276; p. 487.
Smith, William F., St. Louis, Mo. Spark-plug intensifier. No. 1,345,560; July 6; v. 276; p. 46.
Smith, William F., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Twisting-machine. No. 1,356,834; Oct. 26; v. 279; p. 608.
Smith, William F., Brooklyn, N. Y., assignor, by mesne assignments, to Western Electric Company, Incorporated. Winding-machine. No. 1,362,643; Dec. 21; v. 281; p. 428.
Smith, William F., and E. P. Sanford, Flint, Mich. Indicator. No. 1,333,190; Mar. 9; v. 272; p. 244.
Smith, William G. (See Badger, T. N., and Smith.)
Smith, William H., East Cleveland, Ohio. Valve for corrosive liquids. No. 1,331,534; Feb. 24; v. 271; p. 530.
Smith, William H., East Cleveland, Ohio. Stop and waste valve. No. 1,331,535; Feb. 24; v. 271; p. 530.
Smith, William H., East Cleveland, Ohio. Heat-treating box. No. 1,350,427; Aug. 24; v. 277; p. 618.
Smith, William H., Picher, Okla. Valve-gear for steam-engines. No. 1,351,702; Aug. 31; v. 277; p. 930.
Smith, William H., Washington, D. C. Separating waxlike material from paper-stock. No. 1,352,553; Sept. 14; v. 278; p. 197.
Smith, William H., Halls, assignor of one-fourth to W. W. Craig, Ripley, and one-fourth to W. N. Beasley, Halls, Tenn. Detachable bag-clasp. No. 1,330,769; Feb. 10; v. 271; p. 298.
Smith, William H., Falkirk, assignor to The Filbar Electric Heater, Limited, London, England. Liquid-operated electric switch. No. 1,340,086; May 11; v. 274; p. 344.
Smith, William I., Stockton, Kans. Railway-signal. No. 1,337,283; Apr. 20; v. 273; p. 434.
Smith, William I., Oak Park, and J. R. Irvin, Chicago, Ill. Game. No. 1,348,520; Aug. 3; v. 277; p. 75.
Smith, William J., Minneapolis, Minn. Motor-propelled truck. No. 1,357,192; Oct. 26; v. 279; p. 677.
Smith, William J., assignor to Waterbury Clock Co., Waterbury, Conn. Alarm-clock. No. 1,332,076; Feb. 24; v. 271; p. 632.
Smith, William N. (See Webb, Arthur B., assignor.)
Smith, William R. (See Anderson, G. J., and Smith.)
Smith, William S. (See Workman, H. D., and Smith.)
Smith, William S., Cambridge, Mass. Elevator-gate latch. No. 1,358,592; Nov. 9; v. 280; p. 332.
Smith, Wilson G., *et al.* (See Spencer, William H., assignor.)

Digitized by Google

Smith, Winfield D., assignor of one-half to H. F. Hayes, Jr., Newark, N. J. Occupant-propelled vehicle. No. 1,350,577; Aug. 24; v. 277; p. 649.

Smithback, Neal, and W. H. Meier, Madison, Wis. Grain-door. No. 1,340,506; May 18; v. 274; p. 482.

Smithers, Arthur J., Kansas City, Mo. Boiler-feeder. No. 1,363,283; Dec. 28; v. 281; p. 593.

Smithers, Arthur J., Kansas City, Mo. Boiler-feeder. No. 1,363,284; Dec. 28; v. 281; p. 593.

Smithey, Marvin. (See Miller, Charles F., assignor.)

Smithson, Arthur, Glenwood, Minn. Wagon-pole connection with sleigh-runners. No. 1,355,705; Oct. 12; v. 279; p. 299.

Smithson, David B., Wellston, Okla. Animal-poke. No. 1,346,272; July 13; v. 276; p. 249.

Smithwick, James, Manson, N. C. Collapsible sling-shot. No. 1,345,561; July 6; v. 276; p. 46.

Smock, Harold E. (See Lewis, C. A., and Smock.)

Smock, Howard A., assignor to Thomas Cohen, Indianapolis, Ind. Combined kerosene-converter and gas-burner. No. 1,359,284; Nov. 16; v. 280; p. 510.

Smolar, Frank, Dayton, Ohio. Pedestal car-seat. No. 1,346,386; July 13; v. 276; p. 270.

Smolarski, Jan, assignor of one-half to L. Sobeczak, Omaha, Nebr. Shoe key and button. No. 1,355,176; Oct. 12; v. 279; p. 197.

Smolens, Abraham M., New York, N. Y. Toy. No. 1,328,344; Jan. 20; v. 270; p. 372.

Smolinsky, Theodore, Gary, Ind. Toy hammer. No. 1,359,927; Nov. 23; v. 280; p. 684.

Smolker, Abraham, Chelsea, Mass. Cement-applying machine. No. 1,345,512; July 6; v. 276; p. 36.

Smolley, Wayne, Brookville, Ind. Corn gathering or harvesting machine. No. 1,347,559; July 27; v. 276; p. 618.

Smoot, Charles H., South Orange, N. J., assignor to Rateau Battu Smoot Engineering Corporation, New York, N. Y. Centrifugal fluid-pressure-generating apparatus. No. 1,361,107; Dec. 7; v. 281; p. 25.

Smoter, Jan, Conemaugh, Pa. Boiler attachment. No. 1,344,829; June 29; v. 275; p. 878.

Smulski, Edward, Hastings-upon-Hudson, N. Y. Concrete-reinforcing means. No. 1,336,166; Apr. 6; v. 273; p. 87.

Smulski, Edward, Hastings-upon-Hudson, N. Y. Concrete construction. No. 1,356,319; Oct. 19; v. 279; p. 461.

Smyth, Josias F., Springview, Nebr. Gate. No. 1,332,077; Feb. 24; v. 271; p. 632.

Smythe, Edwin H., Hubbard Woods, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-call-distributing system. No. 1,330,220; Feb. 10; v. 271; p. 195.

Smythe, Horace E., assignor to The S. R. Smythe Company, Pittsburgh, Pa. Furnace. No. 1,344,458; June 22; v. 275; p. 740.

Smythe, S. R., Company. (See Schild, Herman E., assignor.)

Smythe, S. R., Company, The. (See Smythe, Horace E., assignor.)

Snaman, William E., Pittsburgh, Pa. Vision-deflector. No. 1,356,498; Oct. 19; v. 279; p. 495.

Snavely, Clarence S. (See Fisher, A. W., and Snavely.)

Snavely, Clarence S., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Light-signal. No. 1,329,639; Feb. 3; v. 271; p. 55.

Snavely, Clarence S., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Adjustment of incandescent lamps. No. 1,329,640; Feb. 3; v. 271; p. 55.

Snavely, Clarence S., Pittsburgh, assignor to The Union Switch & Signal Company, Swissville, Pa. Railway-traffic-controlling apparatus. No. 1,333,642; Mar. 16; v. 272; p. 390.

Snead & Co. Iron Works, The. (See Macdonald, Angus S. and H. P., assignors.)

Snead & Co. Iron Works, The. (Macdonald, Harry P., assignor.)

Sneddon, John, McKeesport, Pa., assignor to National Tube Company, Pittsburgh, Pa. Method of and apparatus for making butt-weld pipe. No. 1,351,848; Aug. 31; v. 277; p. 861.

Sneierson, Samuel L., Roxbury, assignor to Independent Button Fastener Machine Co., Boston, Mass. Button-feed mechanism for button-attaching machines. No. 1,339,324; May 4; v. 274; p. 124.

Snell, Lyle K., assignor to Cadillac Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,330,919; Feb. 17; v. 271; p. 395.

Snell, Lyle K., assignor to Cadillac Motor Car Company, Detroit, Mich. Compression-coupling. No. 1,334,682; Mar. 23; v. 272; p. 631.

Snell, Lyle K., assignor to Cadillac Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,342,830; June 8; v. 275; p. 292.

Snell, Lyle K., assignor to Cadillac Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,342,831; June 8; v. 275; p. 292.

Snell, Lyle K., assignor to Cadillac Motor Car Company, Detroit, Mich. Vehicle tail-lamp. No. 1,352,096; Sept. 7; v. 278; p. 74.

Snell, Lyle K., assignor to Cadillac Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,358,890; Nov. 16; v. 280; p. 437.

Snell, William T., El Paso, Tex. Cylinder-grinding attachment for lathes. No. 1,335,994; Apr. 6; v. 273; p. 55.

Snelling, Walter O., Allentown, Pa. Photochemical apparatus. No. 1,339,675; May 11; v. 274; p. 268.

Snelling, Walter O., Allentown, Pa. Initial detonating agent. No. 1,353,805; Sept. 21; v. 278; p. 505.

Snelling, Walter O., Allentown, Pa., assignor to Trojan Powder Company, New York, N. Y. Ammonium-nitrate explosive. No. 1,343,063; June 8; v. 275; p. 338.

Snelling, Walter O., and W. R. Lams, Allentown, Pa., assignors, by mesne assignments, to Trojan Powder Company, New York, N. Y. Nitrostarch explosive and manufacturing same. No. 1,329,211; Jan. 27; v. 270; p. 565.

Snelling, Walter O., and W. R. Lams, assignors to Trojan Powder Company, Allentown, Pa. Manufacturing nitrostarch explosives. No. 1,329,212; Jan. 27; v. 270; p. 565.

Snesrud, Albert, Webster, Minn. Trip for manure-carriers. No. 1,355,860; Oct. 19; v. 279; p. 370.

Snickers, Edward, Matlock, Wash. Lid-lifter for receptacles. No. 1,341,390; May 25; v. 274; p. 722.

Snideman, Clora J., assignor to Wabash Sanitray Company, Wabash, Ind. High-chair tray. No. 1,361,504; Dec. 7; v. 281; p. 106.

Snideman, Clora J., assignor to Wabash Sanitray Company, Wabash, Ind. High-chair tray. No. 1,361,505; Dec. 7; v. 281; p. 106.

Snideman, Frank A., Gary, Ind. Pull-out device for motor-vehicles. No. 1,340,349; May 18; v. 274; p. 452.

Snider, Charles A., Atlanta, Ga. Double-acting metal-planer. No. 1,340,256; May 18; v. 274; p. 434.

Snider, Ellsworth, Monroeville, Ind. Wheel for tractors. No. 1,336,791; Apr. 13; v. 273; p. 266.

Snider, Garnett, Bruces Mines, Ontario, Canada. Electric-lamp socket. No. 1,327,496; Jan. 6; v. 270; p. 115.

Snider, John L., assignor to Royal Metalware Manufacturing Co., Denton, N. C. Fireless cooker. No. 1,328,304; Jan. 20; v. 270; p. 365.

Snider, Max, and H. Kaufman, Philadelphia, Pa. Fastening for shoe-heels. No. 1,333,138; Mar. 9; v. 272; p. 235.

Snider, R. E. (See Frey, George E., assignor.)

Snidrowski, Albert M., U. S. Army. Tie. No. 1,351,349; Aug. 31; v. 277; p. 861.

Snidrowski, Albert M., Baltimore, Md. Ice-creeper. No. 1,357,658; Nov. 2; v. 280; p. 86.

Snodgrass, Charles C., Pittsburgh, Pa. Spark-plug. No. 1,341,221; May 25; v. 274; p. 689.

Snodgrass, William. (See Litzinger, L. P., Conerty, and Snodgrass.)

Snow, David L., Philadelphia, Pa. Fabric-printing machine. No. 1,342,722; June 8; v. 275; p. 269.

Snow, Harry M., Kalamazoo, Mich., and N. B. Wales, New York, N. Y., assignors to Michigan Service Corporation, Jackson, Mich. Construction for perfecting combustion. No. 1,331,893; Feb. 17; v. 271; p. 483.

Snow, Isaac, Lawrence, Mass. Picker-check. No. 1,328,018; Jan. 13; v. 270; p. 274.

Snow, Isaac, Lawrence, Mass. Shuttle. No. 1,344,734; June 29; v. 275; p. 859.

Snow, Philo V., Dallas, Tex. Producing prints on metal. No. 1,346,140; July 13; v. 276; p. 222.

Snow, Theodore T., Sioux Falls, S. D. Post. No. 1,334,812; Mar. 23; v. 272; p. 656.

Snure, Warren, Wooster, Ohio. Dish-washing machine. No. 1,329,863; Feb. 3; v. 271; p. 97.

Snyder, Ada G., Kansas City, Mo. Sanitary cushioned bed vessel. No. 1,362,751; Dec. 21; v. 281; p. 449.

Snyder, Almond H., assignor to Gould Storage Battery Company, Lancaster, N. Y. Battery. No. 1,363,683; Dec. 28; v. 281; p. 670.

Snyder, Almond H., assignor to Gould Storage Battery Company, Lancaster, N. Y. Storage battery. No. 1,363,684; Dec. 28; v. 281; p. 670.

Snyder, Almond H., assignor to Gould Storage Battery Company, Lancaster, N. Y. Storage battery. No. 1,363,685; Dec. 28; v. 281; p. 670.

Snyder, Almond H., assignor to Gould Storage Battery Company, Lancaster, N. Y. Storage battery. No. 1,363,686; Dec. 28; v. 281; p. 671.

Snyder, Charles A., Dubuque, Iowa. Safety device for railway-crossings. No. 1,342,002; June 1; v. 275; p. 76.

Snyder, Charles F., Pittsburgh, Pa. Connection or joint and making same. No. 1,348,667; Aug. 3; v. 277; p. 104.

Snyder, Daniel H., Snyderville, Ohio. Post. No. 1,329,026; Jan. 27; v. 270; p. 530.

Snyder, Daniel H., Snyderville, Ohio. Railway crosstie. No. 1,360,594; Nov. 30; v. 280; p. 883.

Snyder, Edgar W. (See Kryder, F. L., and Snyder.)

Snyder, Edith L., Johnstown, Pa. Oil water-color paint. No. 1,327,928; Jan. 13; v. 270; p. 257.

Snyder, Edward L., Harrisburg, Pa. Differential gearing. No. 1,341,286; May 25; v. 274; p. 701.

Snyder, Emmanuell H., Davenport, Iowa. Lifting device for planters. No. 1,352,634; Sept. 14; v. 278; p. 213.

Snyder, Emmanuell H., Davenport, Iowa. Check-wire guide. No. 1,358,342; Nov. 9; v. 280; p. 282.

Snyder, Eugene L. (See Iseman, R. F., and Snyder.)

Digitized by Google

Alphabetical list of patentees—Continued.

Snyder, Eugene L., Canton, Ohio. Floor-polisher. No. 1,346,918; July 20; v. 276; p. 435.
Snyder, Frank C., Scottdale, Pa. Button-setting machine. No. 1,329,438; Feb. 3; v. 271; p. 18.
Snyder, Frederick T., Oak Park, assignor to Industrial Electric Furnace Company, Chicago, Ill. Three-phase electric furnace. No. 1,327,174; Jan. 6; v. 270; p. 55.
Snyder, George. (See MacBryde, Louis E., assignor.)
Snyder, Hubberd J., Tacoma, Wash. Lumber-loading roll for cars. No. 1,340,507; May 18; v. 274; p. 482.
Snyder, Jacob A., Cincinnati, Ohio. Loose-fiber cleaner. No. 1,358,034; Nov. 9; v. 280; p. 220.
Snyder, Leon L., Colfax, Wis. Crank-shaft bearing. No. 1,355,706; Oct. 12; v. 279; p. 300.
Snyder, Levi J., Wilmington, Calif. Invalid-bedstead. No. 1,330,658; Feb. 10; v. 271; p. 276.
Snyder, Lloyd E., assignor to Eastman Kodak Company, Rochester, N. Y. Film-pack. No. 1,343,590; June 15; v. 275; p. 504.
Snyder, Louis C., Napoleon, Ohio. Jar-handling device. No. 1,358,593; Nov. 9; v. 280; p. 332.
Snyder, Perry N., San Jose, Calif. Brush-holder. No. 1,335,616; Mar. 30; v. 272; p. 867.
Snyder, Porter H., Alexander, W. Va. Fastener. No. 1,363,367; Dec. 28; v. 281; p. 609.
Snyder, Robert W., Bigheart, Okla. Automatic valve cut-off. No. 1,354,426; Sept. 28; v. 278; p. 674.
Snyder, Sheridan E., *et al.* (See Shannon, Richard A., assignor.)
Snyder, Simon, and L. C. Winegardner, Muncy, Pa. Bolting-machine. No. 1,327,636; Jan. 13; v. 270; p. 202.
Snyder, Theophilus F., Delphos, Ohio. Automobile-seat extension. No. 1,342,235; June 1; v. 275; p. 123.
Snyder, Victor. (See Roberts, George P., assignor.)
Snyder, Walter, Philadelphia, Pa. Manufacture of metal forms. No. 1,352,845; Sept. 14; v. 278; p. 256.
Snyder, Ward H., Congress Park, Ill. Spark-plug. No. 1,352,554; Sept. 14; v. 278; p. 198.
Snyder, William A., Mazomanie, Wis. Razor-guard. No. 1,346,855; July 20; v. 276; p. 422.
Snyder, William O., Veedersburg, Ind. Toothbrush and paste case. No. 1,349,110; Aug. 10; v. 277; p. 242.
Snyder, William S., Nashville, Tenn. Hydrant. No. 1,345,465; July 6; v. 276; p. 27.
Snyder, William W., Cohoes, N. Y. Vehicle-wheel truck. No. 1,343,650; June 15; v. 275; p. 516.
Sobczak, Leon. (See Smolarski, Jan, assignor.)
Sobin, Frank, Coatesville, Pa. Lock. No. 1,343,064; June 8; v. 275; p. 338.
Sobocinski, Joseph, Cudahy, Wis. Automobile direction-indicator. No. 1,345,562; July 6; v. 276; p. 47.
Soby, Charles, *et al.* (See Long, George A., assignor.)
Socie, George H., Altoona, Pa. Nut-lock. No. 1,362,270; Dec. 14; v. 281; p. 305.
Societa Anonima Italiana Gio. Ansaldo & C. (See Almagia, L., and Guerreschi, assignors.)
Societa Anonima Italiana Gio. Ansaldo & C. (See Locarni, Vittorio, assignor.)
Societa Anonima Italiana Gio. Ansaldo & Co. (See Perrone, Pio, assignor.)
Societa Anonima Stabilimenti. (See Salvati, Michele N., assignor.)
Societa Anonima Stabilimenti Biak. (See Salvati, Michele N., assignor.)
Societa Anonima Stabilimenti Biak. (See Tedesco, Arrigo, assignor.)
Societa Esercizio Bacini, Industrials. (See Cogliolo, Tomaso S., assignor.)
Societe Anonyme Ateliers Otis Pifre. (See Derungs, Ernest A., assignor.)
Societe Anonyme des Anciens Etablissements C. & E. Chapal Freres & Cie. (See Dickerson, Malcolm, assignor.)
Societe Anonyme Des Ateliers D'Aviation Louis Breguet. (See Breguet, Louis, assignor.)
Societe Anonyme Des Automobiles & Cycles Peugeot. (See Glauque, Pierre L. A., assignor.)
Societe Anonyme des Engrenages. (See Boas, André, assignor.)
Societe Anonyme Des Etablissements Delaunay Belleville. (See Bourdelles, Emile A. L., assignor.)
Société Anonyme Des Etablissements Delaunay Belleville. (See Radiguer, Charles, assignor.)
Societe Anonyme Des Etablissements Nieuport. (See Delage, Gustave, assignor.)
Societe Anonyme Des Hauts-Fourneaux et Fonderies de Pont-A-Mousson. (See Henry, Emile, assignor.)
Societe Anonyme L'Air Liquide. (See Haas, Louis A. F., assignor.)
Societe Anonyme Les Ateliers Metallurgiques. (See Lefèbvre, Paul, assignor.
Société Anonyme pour l'Eclairage Electrique des Vehicules. (See Dutreux, Auguste, assignor.)
Societe Anonyme pour l'Exploitation des Procedes Westinghouse Leblanc. (See Van Deuren, Pierre, assignor.)
Societe Ch. M. Stein & Cie. (See Stein, Charles, assignor.)
Societe Chimique Des Usines Du Rhone (anciennement Gilliard, P. Monnet et Cartier). (See Altwegg, J., and Landrivon, assignors.)
Societe Chimique des Usines du Rhone, Anciennement Gilliard, P. Monnet et Cartier. (See Beudet, Maurice, assignor.)
Societe Chimique des Usines du Rhone, Anciennement Gilliard P. Monnet et Cartier. (See Weiss, André, assignor.)
Societe des Anciens Etablissements Weyher et Richemond. (See Guyot-Sionnest, René, assignor.)
Societe Des Moteurs Gnome et Rhone. (See Lefranc, Eugène L., assignor.)
Societe Des Moteurs Gnome Et Rhone. (See Seguin, Laurent, assignor.)
Societe Des Moteurs Salmson (Systeme Canton-Unne). (See Dusuzeau, René, assignor.)
Societe Des Moteurs Salmson (Systeme Canton-Unne. (See Postal-Vinay, Pierre J. R., assignor.)
Societe des Navires en Ciment Armé. (See Freyssinet, Eugène, assignor.)
Societe de Stearinerie et Savonnerie de Lyon. (See Radisson, A. and Berthon, assignors.)
Société de Stéarinerie et Savonnerie de Lyon. (See Radisson and Berthon, assignors.)
Société des Telegraphes Multiplex (Systeme E. Mercadier-H. Magunna.) (See Magunna, Henri, assignor.)
Societe Des Vitrages A. M. L. Societe Anonyme. (See Seailles, Jean C., assignor.)
Societe d'Etudes Chimiques pour l'Industrie. (See Darier, G., and Goudet, assignors.)
Societe du Carburateur Zenith. (See Boulade, Antonin, assignor.)
Société du Verre Triplex. (See Mascart, Léon F., assignor.)
Societe Francaise d'Editions Photo-Cartographiques. (See Arnold, Henry, assignor.)
Societe Franco Belge de Tours a Coke, Societe Anonyme. (See Piette, Joseph, assignor.)
Societe Generale de Fours À coke, Systemes Lecocq. (See Lecocq, Eugène, assignor.)
Societe Lorraine Des Ancienes Etablissements De Dietrich & Cie. De Luneville. (See Maire, Auguste, assignor.)
Societe Lyonnaise Des Rechauds Catalytiques Camell, Cochet, Gritte & Cie (Societe en Commandite). (See Camell, R., Cochet, and Gritte, assignors.)
Societe Purification Industrielle des Gaz. (See Gallot, G., and Poussin, assignors.)
Societe, R., Hanriot et Cie. (See Hanriot, R., and Gratieux, assignors.)
Society of Chemical Industry in Basle. (See Anderwert, E., and Fritzsche, assignors.)
Society of Chemical Industry in Basle. (See Fritzsche, Hermann, assignor.)
Society of Chemical Industry in Basle. (See Gams, Alphons, assignor.)
Society of Chemical Industry in Basle. (See Hartmann, M., and Wybert, assignors.)
Society of Chemical Industry in Basle. (See Hartmann, Max, assignor.)
Society of Chemical Industry in Basle. (See Jagerspacher, C., and Isler, assignors.)
Society of Chemical Industry in Basle. (See Luib, A., and Steinbuck, assignors.)
Society of Chemical Industry in Basle. (See de Montmollin, Guillaume, assignor.)
Society of Chemical Industry in Basle. (See Reber, Emil, assignor.)
Society of Chemical Industry in Basle. (See Schedler, Arnold, assignor.)
Sodemann, Christian W. G., St. Louis, Mo. Radiator-shield. No. 1,343,414; June 15; v. 275; p. 469.
Sodemann, Christian W. G., St. Louis, Mo. Dust-collecting shield for heating-radiators. No. 1,358,994; Nov. 16; v. 280; p. 457.
Sodemann, Christian W. G., St. Louis, Mo. Top for radiator-shields. No. 1,358,995; Nov. 16; v. 280; p. 457.
Soden, John K., Portland, Oreg. Electric table-heater. No. 1,332,526; Mar. 2; v. 272; p. 68.
Soderberg, Andrew, Berkeley, Calif. Tray-turner. No. 1,342,774; June 8; v. 275; p. 281.
Soderlund, Carl A., Brooklyn, N. Y. Actuating device for the throw-off mechanism of printing-presses. No. 1,359,442; Nov. 16; v. 280; p. 543.
Soderholm, Charles. (See Wiedhofft, Alfred H., assignor.)
Söderlund, Carl G., Gottenborg, assignor to Aktiebolaget Lidköpings Mekaniska Verkstad, Lidköping, Sweden. Method and machine for straightening of metal wire. No. 1,326,981; Jan. 6; v. 270; p. 20.
Soeders, Joseph. (See Clogston, Melvin, assignor.)
Soderstrom, Albert, Homestead, Pa. Furnace-drawing apparatus. No. 1,334,000; Mar. 16; v. 272; p. 458.
Soderstrom, Oscar, New York, N. Y., and W. Fuhrmann, Westfield, N. J. Machine for making snap-fasteners. No. 1,340,634; May 18; v. 274; p. 506.
Soehren, John H., Seattle, Wash. Dish-cloth holder. No. 1,338,107; Apr. 27; v. 273; p. 660.
Soemer, Joseph C., Newark, N. J. Desk-basket paper holder and clip. No. 1,328,971; Jan. 27; v. 270; p. 520.
Soemer, Joseph C., Newark, N. J. Mechanical movement. No. 1,331,035; Feb. 17; v. 271; p. 418.
Sofge, John. (See Twombly, Willard I., assignor.)
Sohr, Carl, Ossining, assignor of one-fourth to E. P. Lewis, New York, N. Y. Detachable heel. No. 1,359,626; Nov. 23; v. 280; p. 624.

Digitized by Google

Alphabetical list of patentees—Continued.

Soisalon-Soininen, Juhani L., Boxbacka, Finland. Paper-knife. No. 1,328,548; Jan. 20; v. 270; p. 411.
Sokač, John, and A. Semko, Kingston, Pa. Combination table and receptacle. No. 1,341,083; May 25; v. 274; p. 662.
Sokač, John, and A. Semko, Kingston, Pa. Combination-receptacle. No. 1,346,431; July 13; v. 276; p. 279.
Sokolov, Jacob, New York, N. Y., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,347,187; July 20; v. 276; p. 487.
Solace Comfort Service Corporation. (See Zeidler, W. A. and P. M.)
Solaini, Peter, New York, N. Y. Embroidery-frame. No. 1,357,737; Nov. 2; v. 280; p. 102.
Solar Illuminating Co. (See Lazerson, Abraham, assignor.)
Solberg, Isaac, Rice Lake, Wis. Ground-anchor. No. 1,349,476; Aug. 10; v. 277; p. 314.
Solberg, Knut E., Philadelphia, Pa. Calipering-rule. No. 1,341,865; June 1; v. 275; p. 50.
Solberg, Knut E., Philadelphia, Pa. Measuring-calipers. No. 1,351,804; Sept. 7; v. 278; p. 17.
Solberg, Simon, McIntosh, Minn. Gate. No. 1,330,146; Feb. 10; v. 271; p. 181.
Soleau, Charles J., Upper Montclair, N. J. Automobile-lock. No. 1,361,108; Dec. 7; v. 281; p. 25.
Solem, Peter A., Cincinnati, Ohio. Traction-block. No. 1,327,296; Jan. 6; v. 270; p. 78.
Solie, Clarence, Stanley, Wis. Circuit-closer for automobile-signal devices. No. 1,348,454; Aug. 3; v. 277; p 63.
Solimeo, Joseph. (See Morelli and Solimeo.)
Sollaway, Stephen P., Wilmington, Del. Waterproofing composition and making and using same. No. 1,339,724; May 11; v. 274; p. 277.
Sollazzo, John, Mariners Harbor, N. Y. Press for fruit, vegetables, &c. No. 1,354,517; Oct. 5; v. 279; p. 14.
Sollen, Adam, assignor, by mesne assignments, to The Warm-O-Suit Corporation, New York, N. Y. Combination fabric. No. 1,355,177; Oct. 12; v. 279; p. 198.
Sollie, Klaus, Youngstown, Ohio. Mine-car. No. 1,338,046; Apr. 27; v. 273; p. 648.
Sollima, Antonio. (See Sollima, Carmelo, assignor.)
Sollima, Carmelo, Paris, France, assignor of one-half to A. Sollima, Brooklyn, N. Y. Mechanical device for transmitting and regulating speed. No. 1,336,542; Apr. 13; v. 273; p. 218.
Solms, Willy J. (See Luciani, Jacques, assignor.)
Solomon, Charles R. (See Bodine and Solomon.)
Solomon, Fred. (See Gorgichuk, N., and Solomon.)
Solomon, George S., assignor of one-half to L. Franich, Bisbee, Ariz. Fastening device. No. 1,335,617; Mar. 30; v. 272; p. 867.
Solomon, Lucius H., Tiffin, Ohio. Automatic drinking-fountain. No. 1,354,349; Sept. 28; v. 278; p. 659.
Solomon, Samuel, Brooklyn, N. Y. Cushion. No. 1,356,320; Oct. 19; v. 279; p. 462.
Solomon, Serena, Youngstown, Ohio. Curtain-stretcher. No. 1,342,396; June 1; v. 275; p. 152.
Solon, Marc, Trenton, N. J., assignor to The Potters Equipment Company (Inc.), New York, N. Y. Decorating-kiln and the like. No. 1,354,518; Oct. 5; v. 279; p. 14.
Solvay Process Company, The. (See Bacon, Nathaniel T., assignor.)
Solvay Process Company, The. (See Sundstrom, Carl, assignor.)
Somers, Charles E., assignor to B-V Milking Machine Company, Milwaukee, Wis. Vacuum Milk-Releaser Chamber. No. 1,351,192; Aug. 31; v. 277; p. 829.
Somers, John F., Midland, Mich. Farm-gate. No. 1,359,764; Nov. 23; v. 280; p. 652.
Somers, Thomas F., New York, N. Y. Corset. No. 1,355,009; Oct. 5; v. 279; p. 111.
Somers, William A., assignor to The Mount Carmel Brass Foundry Works, Inc., Hamden, Conn. Handle. No. 1,348,967; Aug. 10; v. 277; p. 214.
Somerville, Albert A., Flushing, N. Y., assignor to New York Belting & Packing Company. Artificial leather. No. 1,337,802; Apr. 20; v. 273; p. 532.
Somerville, Albert A., assignor to New York Belting & Packing Company, Flushing, N. Y. Packing material. No. 1,349,737; Aug. 17; v. 277; p. 439.
Somerville, Benjamin G., New York, N. Y. Cream-remover. (Reissue.) No. 15,017; Dec. 28; v. 281; p. 744.
Somerville, George B. (See Eichelberger, William, assignor.)
Sommer, John, Peoria, Ill., assignor, by mesne assignments, to The First Trust & Savings Company, Cleveland, Ohio, and J. A. Chapman, Chicago, Ill., trustees. Show-pen for exhibiting stock. No. 1,330,404; Feb. 10; v. 271; p. 229.
Somerville, Philip, Vancouver, British Columbia, Canada. Pulp heating and agitating apparatus. No. 1,341,287; May 25; v. 274; p. 701.
Somerville, William J., Cleveland, Ohio. Inkwell. No. 1,355,923; Oct. 19; v. 279; p. 382.
Somes, Walter F., Boston, assignor to W. B. Merrill, Newton, Mass. Lubricating apparatus. No. 1,342,605; June 8; v. 275; p. 246.
Sommer, Fred R., and E. K. Skonberg, Brooklyn, N. Y. Portable engraving-machine. No. 1,356,796; Oct. 26; v. 279; p. 601.
Sommer, Friedrich. (See Burri, Konrad, and Sommer.)
Sommer, Henry J., and J. Reigh, Hollidaysburg, Pa. Mop-holder. No. 1,358,399; Nov. 9; v. 280; p. 294.
Sommer, Otto, assignor to Stauwerke A.-G., Zurich, Switzerland. Reversible weir. No. 1,353,285; Sept. 21; v. 278; p. 401.
Sommer, Otto, Zurich, assignor to Stauwerke, A.-G., Zurich, I, Switzerland. Automatic segment-weir. No. 1,363,820; Dec. 28; v. 281; p. 697.
Sommer, Peter W., Peoria, Ill., assignor, by mesne assignments, to The First Trust & Savings Company, Cleveland, Ohio, and J. A. Chapman, Chicago, Ill, trustees. Fender for farrowing-pens. No. 1,330,405; Feb. 10; v. 271; p. 230.
Sommer, Robert. (See Klousnitzer, Frank, assignor.)
Sommerhof, William A., Erie, Pa. Sound-controller. No. 1,327,118; Jan. 6; v. 270; p. 45.
Sommermeyer, Frank R., Spring Lake, Mich. Sprocket for moving-picture films. No. 1,361,919; Dec. 14; v. 281; p. 235.
Sommers, Adolph H., Allentown, Pa. Heel. No. 1,340,571; May 18; v. 274; p. 494.
Sommers, Dell D., Champion, Alberta, Canada. Farm implement. No. 1,352,555; Sept. 14; v. 278; p. 198.
Sonander, Andrew, assignor to Howe Scale Company, Rutland, Vt. Scale. No. 1,352,097; Sept. 7; v. 278; p. 74.
Sonderegger, Leo, assignor of one-half to W. E. Meyer, and one-half to Meyson Manufacturing Company, Inc., New York, N. Y. Window-cleaner. No. 1,359,443; Nov. 16; v. 280; p. 543.
Sondergard, William, Spokane, Wash. Composition of matter to be used by show-card writers, artists, and architects, for pen, brush, and air-brush work. No. 1,358,996; Nov. 16; v. 280; p. 457.
Sondheim, Oscar, New York, N. Y. Closure for collapsible tubes, &c. No. 1,354,921; Oct. 5; v. 279; p. 95.
Sonn, Sidney H., New York, N. Y. Spacer for display boxes or cartons. No. 1,350,744; Aug. 24; v. 277; p. 681.
Sonneborn, Charles, West Pittsburgh, Pa., assignor to Pressed Metal Radiator Company. Making radiating-casings. No. 1,348,328; Aug. 3; v. 277; p. 39.
Sonneborn, Sol S., Brooklyn, N. Y. Twin-bar suspension-insulator. No. 1,337,284; Apr. 20; v. 273; p. 434.
Sonner, William I., Blaine, Idaho. Hay gatherer and stacker. No. 1,327,637; Jan. 13; v. 270; p. 202.
Sonners, Ora. (See Luce, H. A., and Sonners.)
Sonneveld, Jan, Schela Gura Ocnitsei, near Targoviste, Roumania. Apparatus for extracting liquids or gases. No. 1,351,139; Aug. 31; v. 277; p. 818.
Sonnichsen, Andreas M., Chicago, Ill. Constructing air-pumps. No. 1,340,844; May 18; v. 274; p. 545.
Sonoda, Heijiro, Yakima, Wash. Mechanical vehicle. No. 1,346,985; July 20; v. 276; p. 449.
Sonora Phonograph Corporation. (See Farb, Pincus, assignor.)
Sonora Phonograph Company. (See Hersog, John, assignor.)
Sonora Phonograph Corporation. (See Wolff, Joseph, assignor.)
Sonsthagen, Asbjorn, Essex, England. Machine for mixing liquid, semiliquid, or viscid materials. No. 1,363,368; Dec. 28; v. 281; p. 609.
Sonsthagen, Asbjorn, Essex, England Means for feeding material through rotating cylinders while subjected to roasting, mixing, or similar operations. No. 1,363,369; Dec. 28; v. 281; p. 609.
Sontheimer, John, Lincoln, Nebr. Pencil-sharpener. No. 1,343,796; June 15; v. 275; p. 545.
Sopcense, Mike, Soperton, Wis. Water-bicycle. No. 1,337,372; Apr. 20; v. 273; p. 451.
Soper, Herbert E., London, England. Means for compiling tabular and statistical data. No. 1,351,692; Aug. 31; v. 277; p. 928.
Soper, Howard W. (See Talbert, Louis B., assignor.)
Sordillo, Fortunato, Boston, Mass. Mouthpiece for musical instruments. No. 1,327,970; Jan. 13; v. 270; p. 265.
Sordillo, Fortunato, Dorchester, Mass. Mute. No. 1,338,108; Apr. 27; v. 273; p. 660.
Sorensen, Frank F. (See Craft, W. D., and Sorensen.)
Sorensen, Frank F., assignor, by mesne assignments, of three-fifths to Vacuumeter Selling Company, Philadelphia, Pa. Roller-bearing. No. 1,354,922; Oct. 5; v. 279; p. 95.
Sorensen, Harvey L. (See Webster, William, assignor.)
Sorensen, John, Chicago, Ill. Wall-bed. No. 1,349,738; Aug. 17; v. 277; p. 439.
Sörensen, Marius M., Vallerød, Denmark. Pad for sole-laying machines. No. 1,349,301; Aug. 10; v. 277; p. 280.
Sorensen, Otto A., New York, N. Y. Self-opening die. No. 1,351,447; Aug. 31; v. 277; p. 880.
Sörensen, William H., Abercrombie, N. D. Can-closure. No. 1,354,519; Oct. 5; v. 279; p. 14.
Sorenson, John G. (See Bourdeau, Leon N., assignor.)
Sorg, Albert A., Grand Rapids, Mich. Ladder. No. 1,356,749; Oct. 26; v. 279; p. 591.
Sorg, Herman D., Philadelphia, Pa. Mortuary refrigerator. No. 1,363,687; Dec. 28; v. 281; p. 671.
Sorg, Michael, Indianapolis, Ind. Sash-cord device. No. 1,352,846; Sept. 14; v. 278; p. 256.
Sorge, Augustus J. (See Lewis, Francis M., assignor.)

Digitized by Google

Sorver, Robert D., Pasadena, Calif. Electric sealer. No. 1,333,458; Mar. 9; v. 272; p. 294.

Soss, Augustus M., assignor to The American Tool Works Company, Cincinnati, Ohio. Drilling machinery. No. 1,338,752; May 4; v. 274; p. 19.

Soss, Augustus M., A. E. Robinson, Cincinnati, and H. W. Schatz, Norwood, assignors to The American Tool Works Company, Cincinnati, Ohio. Feeding mechanism for metal-working machinery. No. 1,351,969; Sept. 7; v. 278; p. 51.

Soss, Augustus M., A. E. Robinson, Cincinnati, and H. W. Schatz, Norwood, assignors to The American Tool Works Company, Cincinnati, Ohio. Feeding mechanism for metal-working machinery. No. 1,351,970; Sept. 7; v. 278; p. 51.

Soss, Charles J., assignor of one-third to H. Soss and one-third to S. Soss, New York, N. Y. Hinge. No. 1,363,370; Dec. 28; v. 281; p. 610.

Soss, Henry, *et al.* (See Soss, Charles J., assignor.)

Soss, Joseph, New York, N. Y. Hinge. No. 1,335,400; Mar. 30; v. 272; p. 827.

Soss, Joseph, New York, N. Y. Hinge. No. 1,338,260; Apr. 27; v. 273; p. 688.

Soss, Joseph, New York, N. Y. Hinge. (Reissue.) No. 14,899; June 22; v. 275; p. 773.

Soss, Joseph, New York, N. Y. Spring-catch device. No. 1,351,072; Aug. 31; v. 277; p. 806.

Soss, Joseph, New York, N. Y. Hinge. No. 1,363,371; Dec. 28; v. 281; p. 610.

Soss, Joseph, New York, N. Y. Hinge. No. 1,363,372; Dec. 28; v. 281; p. 610.

Soss, Samuel, *et al.* (See Soss, Charles J., assignor.)

Sosskin, Harry, Philadelphia, Pa. Radiator. No. 1,338,753; May 4; v. 274; p. 19.

Soubier, Leonard D., assignor to The Owens Bottle Machine Company, Toledo, Ohio. Means for transferring molten glass to molds. No. 1,331,536; Feb. 24; v. 271; p. 530.

Soubier, Leonard D., assignor to The Owens Bottle Machine Company, Toledo, Ohio. Means for transferring glass to molds. No. 1,356,174; Oct. 19; v. 279; p. 433.

Soubliere, Wilbert C., and R. W. McKenzie, Iroquois Falls, Ontario, Canada. Apparatus for reclaiming or recovering logs or blocks from storage-piles. No. 1,335,132; Mar. 30; v. 272; p. 778.

Soucy, Adelard E., deceased, Springfield, Mass., A. I. Reynolds, executor. Rail-straightening device. No. 1,358,035; Nov. 9; v. 280; p. 221.

Souczek, Ferdinand Nachod, Czecho-Slovakia. Device for imparting reciprocating movements especially for shuttle-driving. No. 1,358,474; Nov. 9; v. 280; p. 309.

Souders, Herbert V., Wilmington, Calif. Trammel-point. No. 1,352,320; Sept. 7; v. 278; p. 117.

Soudy, Antoine, Lyon, France. Lubricating-cup. No. 1,352,847; Sept. 14; v. 278; p. 257.

Soule, Arthur C., San Francisco, Calif. Fabricated window-sash mounting. No. 1,356,095; Oct. 19; v. 279; p. 417.

Soule, Charles E., Somerville, assigner of one-third to F. P. Bearse and one-third to W. T. Abbott, Winchester, Mass. Antirattling device. No. 1,327,291; Jan. 6; v. 270; p. 77.

Soule, Clarence A., Canandaigua, N. Y. Garment-hanger. No. 1,352,556; Sept. 14; v. 278; p. 198.

Soulis, Harold A. and W. T., New York, N. Y. Shock-absorbing apparatus. No. 1,331,537; Feb. 24; v. 271; p. 530.

Soulis, Wilbur T. (See Soulis, H. A. and W. T.)

Soulliard, James J., Chicago, Ill. Toy. No. 1,344,064; June 22; v. 275; p. 663.

Soults, Thomas A., assignor to Sill Stove Works, Rochester, N. Y. Damper mechanism for gas-stoves. No. 1,330,989; Feb. 17; v. 271; p. 409.

Sourbier, Edward V., and M. Madden, Harrisburg, Pa. Railway-rail. No. 1,328,405; Jan. 20; v. 270; p. 884.

Souter, Dracos, Baton Rouge, La. Pipe-coupling. No. 1,332,769; Mar. 2; v. 272; p. 114.

South, Jerome J., Nashville, Tenn. Convertible chair. No. 1,345,513; July 6; v. 276; p. 36.

South Metropolitan Gas Company. (See Kirby, William, assignor.)

South Metropolitan Gas Company. (See Parrish, P., and Valon, assignors.)

South, Thomas W., assignor of one-half to R. A. Gilbertson, De Kalb, Ill. Time-controlled mechanism for operating electric switches. No. 1,350,389; Aug. 24; v. 277; p. 611.

Southard, Francis C., and H. G., Southampton, England. Machine for rolling in the baseplates of high-explosive shells and such like. No. 1,352,321; Sept. 7; v. 278; p. 117.

Southard, Henry G. (See Southard, F. C., and H. G.)

Southern Can Company. (See Loweree, Jackson, and Gleason, assignors.)

Southern Electric Steel Company. (See Keyser, Joseph N. M., assignor.)

Southern Implement Manufacturing Company. (See Harrington, John L., assignor.)

Southern Pine Products Co. (See Fairley, Taliaferro J., assignor.)

Southern Wheel Company. (See Fox, John F., assignor.)

Southey, Alfred W., assignor to Southey Gas Producers Limited, London, England. Production of gaseous fuel for internal-combustion engines. No. 1,351,193; Aug. 31; v. 277; p. 829.

Southey Gas Producers Limited. (See Southey, Alfred W., assignor.)

Southey Gas Producers Limited. (See Thomas, Edward W., assignor.)

Southey, Joseph H., Providence, R. I. Sash-fastener. No. 1,359,121; Nov. 16; v. 280; p. 480.

Southorne, William H., North Shields, England. Furnace for heating metal articles and the like. No. 1,347,719; July 27; v. 276; p. 650.

Southwell, John A., Scranton, Pa. Spade or shovel. No. 1,352,921; Sept. 14; v. 278; p. 271.

Southwestern Engineering Company. (See Kraut, Max, assignor.)

Southwick, Frank, Kansas City, Kans., assignor to Niles-Bement-Pond Company, New York, N. Y. Tire-turning device. No. 1,345,644; July 6; v. 276; p. 62.

Southwick, John W., North Collins, N. Y. Wave-motor. No. 1,347,829; July 27; v. 276; p 672.

Southwick, William S., Clinton, Mass., assignor, by mesne assignments, to Wickwire Spencer Steel Corporation. Interposed fabric-machine. No. 1,351,350; Aug. 31; v. 277; p. 861.

Sovereign, Frank H., Vallejo, Calif. Universal clamping-tool. No. 1,329,728; Feb. 3; v. 271; p. 71.

Sowden, Walter, Leeds, England. Separation and extraction of dust and iron from brass borings, brass turnings, and like material. No. 1,332,078; Feb. 24; v. 271; p. 633.

Sowell, Ernest E. (See Onstatt, Jacob T., assignor.)

Sowell, Ernest E. (See Sowell, John A., assignor.)

Sowell, John A., Stockton, Calif., assignor to E. E. Sowell, Sacramento, Calif. Aeroplane. No. 1,331,593; Feb. 24; v. 271; p. 541.

Sowers, George S., Spring Hill, Kans. Grain and stock rack. No. 1,333,879; Mar. 16; v. 272; p. 434.

Sowers, George S., Spring Hill, Kans. Train-check railway-ticket. No. 1,353,286; Sept. 21; v. 278; p. 402.

Sowinsky, Frenk, Washington, D. C. Tie-plate. No. 1,345,413; July 6; v. 276; p. 17.

Soylian, George, Brooklyn, N. Y. Cloth-laying machine. No. 1,333,459; Mar. 9; v. 272; p. 295.

Spadafora, Joseph, Cambridge, Mass. Resilient tire. No. 1,341,391; May 25; v. 274; p. 722.

Spadafora, Joseph, Cambridge, Mass. Transmission-gearing. No. 1,341,392; May 25; v. 274; p. 722.

Spadafora, Joseph, Cambridge, Mass. Resilient tire. No. 1,347,060; July 20; v. 276; p. 463.

Spahr, Otto, Philadelphia, Pa. Fuel-regulating device for burners. No. 1,335,401; Mar. 30; v. 272; p. 827.

Spahr, Otto, assignor to Strause Gas Iron Co., Philadelphia, Pa. Sadiron. No. 1,340,257; May 18; v. 274; p. 434.

Spalding, A. G., & Bros. (See Pierce, George L., assignor.)

Spalding, A. G., & Bros. (See Reach, William F., assignor.)

Spalding, A. G., & Bros. (See Richey, William, assignor.)

Spalding, A. G., & Bros. (See Saunders, Addison T., assignor.)

Spalding, Frank, assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Calipers. No. 1,333,943; Mar. 16; v. 272; p. 447.

Spalding, George W., assignor, by mesne assignments, to Mills Woven Cartridge Belt Company, Worcester, Mass. Woven carrier. No. 1,338,794; May 4; v. 274; p. 27.

Spalding, George W., assignor, by mesne assignments, to Mills Woven Cartridge Belt Company, Worcester, Mass. Woven pocketed carrier. No. 1,338,795; May 4; v. 274; p. 27.

Spalding, George W., assignor, by mesne assignments, to Mills Woven Cartridge Belt Company, Worcester, Mass. Pocketed carrier and producing same. No. 1,339,794; May 11; v. 274; p. 290.

Spalding, George W., assignor, by mesne assignments, to Mills Woven Cartridge Belt Company, Worcester, Mass. Pocketed carried and producing same. No. 1,339,795; May 11; v. 274; p. 290.

Spalding, George W., assignor, by mesne assignments, to F. R. Batchelder, Worcester, Mass. Pocketed carrier and producing the same. (Reissue.) No. 14,989; Nov. 16; v. 280; p. 552.

Spånberg, Arthur E. K. (See Thelin, Carl G. T., assignor.)

Spang, Chalfant & Co. (See Marks, Willard C., assignor.)

Spangenberg, Arthur R (See Reichman and Spangenberg.)

Spangler, Franklin P., Union township, Hendricks county, Ind. Adjustable window-sash fastener. No. 1,330,960; Feb. 17; v. 271; p. 403.

Spangler, Frederick W., assignor to The Mantle Lamp Company of America, Chicago, Ill. Wick cleaner and shaper. No. 1,349,010; Aug. 10; v. 277; p. 222.

Spangler, William A. (See Burrows and Spangler.)

Spanier, Waldemar H., Devils Lake, N. D. Wrench. No. 1,349,631; Aug. 17; v. 277; p. 418.

Spanley, Charles A., *et al.* (See Bowen, Charles, assignor.)

Sparmaker, Frank P. J., Audubon, N. J. Burial-casket attachment No. 1,328,345; Jan. 20; v. 270; p. 373.

Sparks, Charles, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Trunk-circuit. No. 1,358,182; Nov. 9; v. 280; p. 250.
Sparks, Charles F., Alton, Ill. Bag-filling machine. No. 1,348,592; Aug. 3; v. 277; p. 90.
Sparks, George W., Oklahoma, Okla. Necktie-stretcher. No. 1,332,147; Feb. 24; v. 271; p. 645.
Sparks, Jacob B. (See Lougheed, Wellington, assignor.)
Sparks, James N., Dallas, Tex. Separating and grading machine. No. 1,333,944; Mar. 16; v. 272; p. 447.
Sparks, James N., Dallas, Tex. Hulling-machine. No. 1,335,465; Mar. 30; v. 272; p. 839.
Sparks, John W., Clear Lake, Iowa. Chair-swing. No. 1,338,296; May 4; v. 274; p. 119.
Sparks, Nelson, Seattle, Wash. Hydraulic dump for automobile-trucks. No. 1,332,008; Feb. 24; v. 271; p. 620.
Sparks, William, Jackson, Mich. Float. No. 1,340,572. May 18; v. 274; p. 494.
Sparks, William, Jackson, Mich. Vacuum-tank. No. 1,343,591; June 15; v. 275; p. 504.
Sparks, William, Jackson, Mich., assignor to The Sparks-Withington Company, Cleveland, Ohio. Motor. No. 1,355,283; Oct. 12; v. 279; p. 218.
Sparks, William, assignor to Sparks-Withington Company, Jackson, Mich. Horn. No. 1,336,594; Apr. 13; v. 273; p. 228.
Sparks-Withington Company. (See Sparks, William, assignor.)
Sparrow, Arthur. (See Edwards, Frank A., assignor.)
Sparrow, John A., and W. Harle, Sedgewick, Alberta, Canada. Cattle-guard. No. 1,354,350; Sept. 28; v. 278; p. 659.
Sparrow, Simon, assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Coil for dynamo-electric machines. No. 1,329,027; Jan. 27; v. 270; p. 530.
Sparrow, Simon, assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Speed-controlling apparatus. No. 1,330,961; Feb. 17; v. 271; p. 403.
Spaulding, Fenton J., assignor to Link-Belt Company, Chicago, Ill. Detachable connecting-link. No. 1,346,611; July 13; v. 276; p. 315.
Spaulding, George T., Cambridge, N. Y. Identification-tag. No. 1,335,995; Apr. 6; v. 273; p. 55.
Spaulding, Morton M., North Adams, Mass. Valve. No. 1,332,639; Mar. 2; v. 272; p. 89.
Spaulding, William K., Ketchikan, Alaska. Service-flag. No. 1,355,861; Oct. 19; v. 279; p. 370.
Spayd, Chauncey I., Kansas City, Mo. Ironingboard. No. 1,348,064; July 27; v. 276; p. 719.
Speakman Company. (See Fraser, James, assignor.)
Speaks, John A., Stella, Mo. Smoke-flue. No. 1,337,731; Apr. 20; v. 273; p. 519.
Spear, Herbert G. (See Fagan, Spear and Wolf.)
Spear, Laurence A., Spokane, Wash. Metallic railway-tie. 1,355,284; Oct. 12; v. 279; p. 219.
Specht, Charles W. J., Fairview, Okla. Massage device. No. 1,361,634; Dec. 7; v. 281; p. 132.
Specht, Richard A., assignor of one-fifth to F. N. Sanderson, Rochester, N. Y. Trench-cutting tool. No. 1,357,359; Nov. 2; v. 280; p. 30.
Specials Chemicals Company. (See Pfanstiehl, Carl, assignor.)
Specialty Automatic Machine Company. (See La Bombard, Leon E., assignor.)
Specialty Manufacturing Company. (See Kaiser, Alfred E., assignor.)
Specialty Products Company, The. (See Huguley, William C., assignor.)
Speckman, Frederick, St. Louis, Mo. Mop-wringer. No. 1,351,805; Sept. 7; v. 278; p. 18.
Spector, Isidor. (See Spector, Samuel and I.)
Spector, Samuel and I., Brooklyn, N. Y. Combination chair and bed. No. 1,362,444; Dec. 14; v. 281; p. 337.
Speece, Peter J. (See Bendix, H. G., and Speece.)
Speer, Alexander S., Chicago, Ill., assignor to The Roofing Patents Company. Apparatus for cutting roofing-sheets. No. 1,352,154; Sept. 7; v. 278; p. 85.
Speer, Edgar J., Newark, assignor to C. E. Slease, Hasbrouck Heights, N. J. Phonograph. No. 1,357,910; Nov. 2; v. 280; p. 135.
Speer, John G., assignor of one-half to U. S. Williams, Wichita, Kans. Saw-oiler. No. 1,340,742; May 18; v. 274; p. 526.
Speer, Robert G., St. Louis, Mo. Stove or furnace. No. 1,332,417; Mar. 2; v. 272; p. 47.
Speer Rosefelt Calendar Bank, Inc. (See Speer, Zeno M., assignor.)
Speer, Zeno M., assignor to Speer-Rosefelt Calendar Bank, Inc., Milwaukee, Wis. Savings-bank. No. 1,356,750; Oct. 26; v. 279; p. 592.
Speers, James W. (See Beck, O. F., Speers, and Jones.)
Speese, Jasper, Milton, Pa. Automobile-coat. No. 1,331,394; Feb. 17; v. 271; p. 483.
Speicher, Daniel E., assignor to The Cyclone Manufacturing Company, Urbana, Ind. Chick-feeder. No. 1,334,182; Mar. 16; v. 272; p. 491.
Speicher, Daniel E., assignor to The Cyclone Manufacturing Company, Urbana, Ind. Poultry-housing device. No. 1,345,968; July 6; v. 276; p. 127.
Speicher, Gustave D. (See Kelley, C. E., and Speicher.)
Speicher, Samuel J., Pittsburgh, Pa. Dust-valve. No. 1,339,005; May 4; v. 274; p. 66.
Speidel, Edwin F. M., Edgewood, assignor to Automatic Gold Chain Company, Providence, R. I. Catch device. No. 1,343,939; June 22; v. 275; p. 638.
Speight, Henry C., Bradford, England. Doffing mechanism for spinning-frames and the like. No. 1,350,578; Aug. 24; v. 277; p. 649.
Speirs, Charles W., Battersea, London, assignor to Morgan Crucible Company, Limited, London, England. Electric furnace. No. 1,335,079; Mar. 30; v. 272; p. 768.
Speirs, Stuart, New York, N. Y. Brush. No. 1,352,228; Sept. 7; v. 278; p. 99.
Spelling, Thomas C., New York, N. Y. Puller for stoppers. No. 1,341,680; June 1; v. 275; p. 13.
Spelling, Thomas C., New York, N. Y. Receptacle. No. 1,350,118; Aug. 17; v. 277; p. 511.
Spelling, Thomas C., New York, N. Y. Combination bottle and closure. No. 1,353,187; Sept. 21; v. 278; p. 383.
Spelling, Thomas C., New York, N. Y. Closure for bottles and other containers. No. 1,361,412; Dec. 7; v. 281; p. 87.
Spellman, Thomas F., Waukegan, Ill. Pipe attachment. No. 1,355,862; Oct. 19; v. 279; p. 371.
Spence, David W. (See Jones, O. B., and Spence.)
Spence, Henry, Kearney, N. J. Automatic tapping-head. No. 1,327,497; Jan. 6; v. 270; p. 115.
Spence, Howard. (See Wrigley, H., and Spence.)
Spence, Hubert L., assignor to The National Malleable Castings Company, Cleveland, Ohio. Yoke for railway-cars. No. 1,342,696; June 8; v. 275; p. 254.
Spence, Hubert L., assignor to The National Malleable Castings Company, Cleveland, Ohio. Coupling-yoke. No. 1,342,697; June 8; v. 275; p. 265.
Spence, Lewis D., East Providence, assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Calipers. No. 1,337,165; Apr. 13; v. 273; p. 337.
Spence, Peter, & Sons, Limited. (See Wrigley, H., and Spence, assignors.)
Spencer, Arthur C., Washington, D. C. Recovering potash. No. 1,344,830; June 29; v. 275; p. 878.
Spencer, Carroll K., River Forest, Ill. Sealing-wax applier. No. 1,328,769; Jan. 20; v. 270; p. 452.
Spencer, Charles G., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Synchronizing system. No. 1,333,000; Mar. 9; v. 272; p. 209.
Spencer, Charles W., Omaha, Nebr. Direction-indicator for vehicles. No. 1,362,752; Dec. 21; v. 281; p. 450.
Spencer, George F. (See Spencer, William H., assignor.)
Spencer, George N., assignor of one-half to C. J. Clark, Forest Grove, Oreg. Automatic hay-rake. No. 1,356,230; Oct. 19; v. 279; p. 444.
Spencer, Guilford L., Cambridge, Mass. Drier. No. 1,348,757; Aug. 3; v. 277; p. 120.
Spencer, Harold C., Syracuse, N. Y. Garment-pressing machine. No. 1,356,321; Oct. 19; v. 279; p. 462.
Spencer Heater Company. (See Waddell, Joseph A., Jr., assignor.)
Spencer, Henry B., Ottawa, Ontario, Canada. Rail-torpedo safety and positive lock. No. 1,336,792; Apr. 13; v. 273; p. 266.
Spencer, Henry B., T. Short, and N. Derocher, Ottawa, Ontario, Canada. Train-stop. No. 1,359,122; Nov. 16; v. 280; p. 480.
Spencer, Henry W., London, and R. Clark, Kew Gardens, England. Water-level alarm apparatus for steam-generators. No. 1,338,197; Apr. 27; v. 273; p. 676.
Spencer, Ira H., West Hartford, assignor to The Spencer Turbine Company, Hartford, Conn. Valve. No. 1,329,099; Jan. 27; v. 270; p. 544.
Spencer, Ira H., West Hartford, assignor to The Spencer Turbine Company, Hartford, Conn. Rotary blower. No. 1,338,466; Apr. 27; v. 273; p. 721.
Spencer, Ira H., West Hartford, assignor to The Spencer Turbine Company, Hartford, Conn. Rotary air-pump. No. 1,350,745; Aug. 24; v. 277; p. 681.
Spencer, James B., assignor to United States Hoff-man Machinery Company, Inc., Syracuse, N. J. Machine for pressing garments. No. 1,326,982; Jan. 6; v. 270; p. 20.
Spencer, John E., Salem, Mass. Leather grinding, boarding, or softening machine. No. 1,330,962; Feb. 17; v. 271; p. 403.
Spencer, John E., and A. C. Lillie, Los Angeles, Calif. Automobile-curtain window. No. 1,331,683; Feb. 24; v. 271; p. 558.
Spencer, John R. (See Freed, G. F., and Spencer.)
Spencer Kellogg & Sons. (See Schwarcman, Alexander, assignor.)
Spencer Lens Co. (See Ott, H. N., and Barton, assignors.)
Spencer Lens Co. (See Ott, H. N., and Bufton, assignors.)
Spencer, Philip, assignor to J. H. Williams Company, Millbury, Mass. Shuttle. No. 1,345,898; July 6; v. 276; p. 112.
Spencer, Robert H., Turlock, Calif. Railway-tie. No. 1,349,171; Aug. 10; v. 277; p. 254.
Spencer, Thomas E., Wetaskuvin, Alberta, Canada. Bomb-thrower. No. 1,342,357; June 1; v. 275; p. 145.
Spencer, Thomas G., assignor to The Hollister Lumber Company, Rochester, N. Y. Folding table. No. 1,331,538; Feb. 24; v. 271; p. 531.
Spencer Turbine Company, The. (See Spencer, Ira H., assignor.)

Digitized by Google

Alphabetical list of patentees—Continued.

Spencer, William H., assignor to G. F. Spencer, New York, N. Y. Dirigible lamp. No. 1,341,681; June 1; v. 275; p. 14.
Spencer, William H., assignor of one-third to P. O'Neill and one-third to W. G. Smith, Buffalo, N. Y. Spreader for rope-making. No. 1,343,854; June 15; v. 275; p. 557
Spencer, William O., assignor of one-half to E. E. George, Shreveport, La. Bomb. No. 1,335,996; Apr. 6; v. 273; p. 55.
Sperbeck Lorenzo, *et al.* (See Mapson, Robert L., assignor.)
Sperling, Henry L., New York, N. Y. Dustpan. No. 1,355,577; Oct. 12; v. 279; p. 275.
Sperling, Leopold N., and C. J. Harris, Youngstown, Ohio; said Harris, assignor to said Sperling. Collapsible screen for baby-carriages. No. 1,339,527; May 11; v. 274; p. 239.
Sperling, Oscar, New York, N. Y. Illuminated display apparatus. No. 1,341,201; May 25; v. 274; p. 686.
Spero, David L., Brownsville, Tex. Demountable-rim-fastening means. No. 1,347,128; July 20; v. 276; p. 476.
Sperry, Arthur B. (See Lundell, A. E., and Sperry.)
Sperry, Arthur B., assignor to Western Electric Company, Incorporated, New York, N. Y. Automatic selecting-switch. No. 1,337,285; Apr. 20; v. 273; p. 484.
Sperry, Arthur B., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,337,661; Apr. 20; v. 273; p. 507.
Sperry, Elmer A. (See Bassett, P. R., and Sperry.)
Sperry, Elmer A. (See Bassett, Preston R., assignor.)
Sperry, Elmer A. (See Scharnagel, Herman J., assignor.)
Sperry, Elmer A., Brooklyn, N. Y. Submarine net and laying the same. No. 1,333,224; Mar. 9; v. 272; p. 251.
Sperry, Elmer A., Brooklyn, N. Y. Electrode for searchlights and making same. No. 1,342,398; June 1; v. 275; p. 153.
Sperry, Elmer A., Brooklyn, N. Y. Operating electrodes for searchlights. No. 1,357,827; Nov. 2; v. 280; p. 120.
Sperry, Elmer A., Brooklyn, N. Y. Light-extinguisher for arc-lamps. No. 1,362,574; Dec. 14; v. 281; p. 363.
Sperry, Elmer A., Brooklyn, N. Y. Feeding mechanism for searchlights. No. 1,362,575; Dec. 14; v. 281; p. 363.
Sperry, Elmer A., Brooklyn, N. Y. Wind-driven generator for aircraft. No. 1,362,753; Dec. 21; v. 281; p. 450.
Sperry, Elmer A., assignor to Sperry Gyroscope Company, Brooklyn, N. Y. Controlling mechanism for ships' gyroscopes. No. 1,342,397; June 1; v. 275; p. 152.
Sperry, Elmer A., Brooklyn, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. System of gun-fire control. No. 1,356,505; Oct. 19; v. 279; p. 496.
Sperry, Elmer A., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Stabilizing-gyroscope. No. 1,358,268; Nov. 9; v. 280; p. 264.
Sperry, Elmer A., Brooklyn, assignor to The Sperry Gyroscope Company, New York, N. Y. Navigational apparatus. No. 1,360,694; Nov. 30; v. 280; p. 903.
Sperry, Elmer A., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Cooling and lubricating system for bearings. No. 1,362,754; Dec. 21; v. 281; p. 450.
Sperry Gyroscope Company, The. (See Bauer, Franz, assignor.)
Sperry Gyroscope Company. (See Champlin, Francis M., assignor.)
Sperry Gyroscope Company, The. (See Fiske, Bradley A., assignor.)
Sperry Gyroscope Company, The. (See Harrison, G. B., and Rawlings, assignors.)
Sperry Gyroscope Company, The. (See Patterson, Martin L., assignor.)
Sperry Gyroscope Company. (See Sperry, Elmer A., assignor.)
Sperry Gyroscope Company, The. (See Tanner, Harry L., assignor.)
Sperry Gyroscope Company, The. (See Thompson, Herbert H., assignor.)
Sperry, Lawrence, Air Craft Company, The. (See Sperry, Lawrence B., assignor.)
Sperry, Lawrence B., Brooklyn, assignor to The Lawrence Sperry Air Craft Company, Inc., New York, N. Y. Aeroplane height-indicator. No. 1,339,006; May 4; 1. 274; p. 66.
Sperry, Lawrence B., Brooklyn, N. Y., assignor to The Lawrence Sperry Aircraft Company, Inc., New York, N. Y. Twin-propeller aeroplane. No. 1,353,544; Sept. 21; v. 278; p. 452.
Spery, Charles F., Chicago, Ill. Clamp. No. 1,330,355; Feb. 10; v. 271; p. 220.
Spery, Charles F., Chicago, Ill. Radiator for motor-driven vehicles. No. 1,354,351; Sept. 28; v. 278; p. 659.
Spery, Charles F., assignor to Hooven Radiator Company, Chicago, Ill. Radiator-core plate. No. 1,340,258; May 18; v. 274; p. 434.
Spery, Philmore F., Chicago, Ill. Radiator for motor-vehicles. No. 1,335,997; Apr. 6; v. 273; p. 56.
Spery, Philmore F., Chicago, Ill. Radiator for internal-combustion engines. No. 1,349,011; Aug. 10; v. 277; p. 222.
Speth, Charlie, Palmyra, Nebr. Road-grader. No. No. 1,339,866; May 11; v. 274; p. 304.
Spethmann, Peter H., New Effington, S. D. Burglar-alarm. No. 1,327,785; Jan. 13; v. 270; p. 230.
Speyer, John E., Le Grand, assignor of one-half to A. L. Hedges, San Francisco, Calif. Soft-collar button. No. 1,343,096; June 8; v. 275; p. 344.
Spicacci, Attilio R., West Hoboken, N. J. Tone-arm base. No. 1,363,061; Dec. 21; v. 281; p. 510.
Spicer, Edward, Vancouver, British Columbia, Canada. Pipe-covering. No. 1,363,440; Dec. 28; v. 281; p. 622.
Spicer, Elmer D., assignor to Moore Steam Turbine Corporation, Wellsville, N. Y. Packing for steam-turbine. No. 1,339,297; May 4; v. 274; p. 119.
Spicer, George, London, and E. C. S. Croxson, Southend-on-Sea, England. Vaporizer for internal-combustion engines. No. 1,348,455; Aug. 3; v. 277; p. 64.
Spicer, James, and Sons. (See Holmes, James S., assignor.)
Spickler, William R., Sheldon, Ill. Gate. No. 1,332,770; Mar. 2; v. 272; p. 114.
Spiegel, Edward, Brooklyn, N. Y. Automobile-top. No. 1,348,593; Aug. 3; v. 277; p. 90.
Spiekerman, Ewald M., Lodi, Calif. Irrigation-valve. No. 1,332,692; Mar. 2; v. 272; p. 99.
Spielman, Milton H., assignor to The Domestic Electrical Company, Cleveland, Ohio. Switch-operating mechanism. No. 1,356,663; Oct. 26; v. 279; p. 575.
Spiers, Edgar H., assignor of one-half to H. E. Johnson, Chattanooga, Tenn. Railway-tie. No. 1,355,707; Oct. 12; v. 279; p. 300.
Spiers, Edgar H., Chattanooga, Tenn., assignor of one-half to H. E. Johnson, Hamilton county, Tenn. Railway-tie. No. 1,359,123; Nov. 16; v. 280; p. 480.
Spiers, Frederick G. Jamaica, assignor to National Carbon Company, Inc., New York, N. Y. Portable electric light. No. 1,326,983; Jan. 6; v. 270; p. 20.
Spiers, Frederick G., New Britain, assignor to Winchester Repeating Arms Company, New Haven, Conn. Hand-lamp switch. No. 1,344,735; June 29; v. 275; p. 859.
Spiers, Frederick G., New Britain, assignor to Winchester Repeating Arms Company, New Haven, Conn. Battery hand-lamp. No. 1,361,920; Dec. 14; v. 281; p. 235.
Spies, Peter H. F., assignor to The Sebco Company, Incorporated, Buffalo, N. Y. Machine for baking ice-cream cones, &c. No. 1,341,084; May 25; v. 274; p. 663.
Spiess, Georg, Leipzig-Reudnitz, Germany. Device for feeding and adjusting paper sheets. No. 1,329,936; Feb. 3; v. 271; p. 110.
Spiess, Georg, Leipzig-Reudnitz, Germany. Sheet-feeding apparatus for paper-sorting machines. No. 1,348,246; Aug. 3; v. 277; p. 23.
Spiess, Jules G. (See Kuhn, F., Thomas, and Spiess.)
Spikes, Richard B., Fort Bragg, Calif. Trolley-pole arrester. No. 1,362,197; Dec. 14; v. 281; p. 290.
Spikes, Richard B., Fort Bragg, Calif. Take-up device. No. 1,362,198; Dec. 14; v. 281; p. 290.
Spiller, Edward, Royalton, Ill. Sump-basket. No. 1,335,080; Mar. 30; v. 272; p. 768.
Spiller, Herbert W., Hampstead, London, England. Carburetor for internal-combustion engines. No. 1,334,411; Mar. 23; v. 272; p. 581.
Spillman, Edward H., Laplata, N. Mex. Compound spring. No. 1,330,727; Feb. 10; v. 271; p. 289.
Spillmann, Heinrich, Zurich, Switzerland. Lathe-chuck. No. 1,350,746; Aug. 24; v. 277; p. 681.
Spinasse, Arthur E., Mount Vernon, Ohio. Method of and apparatus for drawing glass. No. 1,336,056; Apr. 6; v. 273; p. 66.
Spinasse, Arthur E., Mount Vernon, Ohio. Glass-drawing apparatus. No. 1,343,186; June 8; v. 275; p. 361.
Spinasse, Arthur E., Mount Vernon, Ohio. Apparatus for drawing glass cylinders. No. 1,361,635; Dec. 7; v. 281; p. 132.
Spindler, Ferdinand G., New York, N. Y., assignor to A. Traeger, Weehawken, N. J. Colorimeter. No. 1,353,500; Sept. 21; v. 278; p. 444.
Spinello, Mathew, Kansas City, Mo. Cigar-lighter. No. 1,359,469; Nov. 16; v. 280; p. 549.
Spinello, Mathew, Kansas City, Mo. Scale. No. 1,359,470; Nov. 16; v. 280; p. 549.
Spinney, Burton A., Des Moines, Iowa. Clutch control for tractors. No. 1,341,222; May 25; v. 274; p. 689.
Spirito, Ermogene, Pasadena, Calif. Tomato-masher. No. 1,342,877; June 8; v. 275; p. 301.
Spiro, Walter J., White Plains, N. Y. Metallic structure for running-boards. No. 1,334,565; Mar. 23; v. 272; p. 610.
Spiro, Walter J., White Plains, N. Y. Securing-bolt. No 1,356,835; Oct. 26; v. 279; p. 608.
Spitler, Eli, Moscow, Idaho. Propelling mechanism. No. 1,332,475; Mar. 2; v. 272; p. 57.
Spitz, Charles, New York, N. Y. Roasting-pan. , No. 1,349,302; Aug. 10; v. 277; p. 280.
Spitzfaden, Bernhard, Brooklyn, N. Y. Door-hanger. No 1,348,758; Aug. 3; v. 277; p. 121.
Spivak, David, New Haven, Conn. Window-lock. No. 1,346,065; July 6; v. 276; p. 146.
Splitdorf Electrical Company. (See Borger, Henry E., assignor.)
Splitdorf Electrical Company. (See Broegger, Ivar W., assignor.)
Splitdorf Electrical Company. (See De Lorme, Alfred C., assignor.)

Digitized by Google

Splitdorf Electrical Company. (See Dean, William W., assignor.)
Splitdorf Electrical Company. (See Kiefer, John M., Jr., assignor.)
Splitdorf Electrical Company. (See Lang, George L., assignor.)
Splitdorf Electrical Company. (See Libby, A. D. T., and Borger, assignors.)
Splitdorf Electrical Company. (See McKeown, Samuel C., assignor.)
Splitdorf Electrical Company. (See Mason, Charles T., assignor.)
Splitdorf Electrical Company. (See Moore, Edward, assignor.)
Splitdorf Electrical Company. (See Podlešák, Henry J., assignor.)
Splitdorf Electric Company. (See Van Deventer, Harry R., assignor.)
Spjelkavik, Nikolai, Trondhjem, Norway. Machine for the treatment of herring and fish. No. 1,335,133; Mar. 30; v. 272; p. 778.
Spoden, Henry J., and J. B. Welsh, St. Cloud, Minn. Trolley. No. 1,343,592; June 15; v. 275; p. 504.
Spoelstra, Watze, San Jose, Calif. Air-heater. No. 1,361,351; Dec. 7; v. 281; p. 74.
Spohr, John, assignor to H. R. Bruah, Chicago, Ill. Front-axle brace. No. 1,342,514; June 8; v. 275; p. 229.
Spohrer, Gregory J., East Orange, N. J. Internal-combustion engine. No. 1,361,109; Dec. 7; v. 281; p. 26.
Spohrer, Gregory J., East Orange, assignor of one-half to E. Van Vleck, Montclair, N. J. Aeroplane-engine carburation. No. 1,360,041; Nov. 23; v. 280; p. 707.
Spohrer, Gregory J., East Orange, assignor of one-half to C E. Van Vleck, Montclair, N. J. Internal-combustion engine. No. 1,361,110; Dec. 7; v. 281; p. 26.
Spokane Mail Equipment Company. (See Smith, Herbert E., assignor.)
Sponenburg, Hiram H., Gurnee, assignor, by mesne assignments, to O. R. Barnett, Chicago, Ill. Rail-anchor. No. 1,350,676; Aug. 24; v. 277; p. 667.
Sponenburg, Hiram H., Gurnee, assignor, by mesne assignments, to O. R. Barnett, Chicago, Ill. Rail-anchor. No. 1,350,677; Aug. 24; v. 277; p. 667.
Sponenburg, Hiram H., Gurnee, assignor, by mesne assignments, to O. R. Barnett, Chicago, Ill. Rail-anchor. No. 1,357,360; Nov. 2; v. 280; p. 31.
Spong, Frank, Glendale, Calif. Dirigible headlight. No. 1,327,574; Jan. 6; v. 270; p. 130.
Sponsler, Olenus L., M. E. Dunlap, and S. B. Henning, Madison, Wis., assignors to The United States of America. Manufacturing plywood. No. 1,336,262; Apr. 6; v. 273; p. 105.
Spooner, Charles H., Charlestown, N. H. Jar-closure. No. 1,351,496; Aug. 31; v. 277; p. 890.
Spotswood, Frank D. (See Mason, George C., assignor.)
Spotswood, Frank D., Lexington, Ky. Indicator-card. No. 1,333,686; Mar. 16; v. 272; p. 399.
Spradling, John T., White Plains, N. Y. Reading-glass holder. No. 1,345,272; June 29; v. 275; p. 962.
Sprague, Abbie C., Boston, Mass. Bookmarker. No. 1,346,856; July 20; v. 276; p. 422.
Sprague Canning Machinery Company. (See Bucklin, Charles S., assignor.)
Sprague Canning Machinery Co. (See Lowe, Harry W., assignor.)
Sprague Canning Machinery Company. (See Whitaker, James F., assignor.)
Sprague, Charles B., assignor to Diamond Iron Works, Minneapolis, Minn. Resawing-machine. No. 1,344,096; June 22; v. 275; p. 668.
Sprague, Edward, Jr., Oak Park, Ill. Coffee-making device. No. 1,362,644; Dec. 21; v. 281; p. 429.
Sprague, Frank D., and P. W. Allison, New York, N. Y. Delay-action fuse. No. 1,343,415; June 15; v. 275; p. 469.
Spratt, George A., Coatesville, assignor of one-half to H. W. Smith, West Chester, Pa. Aeroplane. No. 1,331,289; Feb. 17; v. 271; p. 463.
Sprague, James C., and A. G. Johnston, Patten, Me. Log-loader. No. 1,363,930; Dec. 28; v. 281; p. 718.
Sprague, Leo A., Henderson, N. Y. Propulsion mechanism. No. 1,352,922; Sept. 14; v. 278; p. 271.
Spray Engineering Company. (See Davis, Harry O., assignor.)
Spray, Engineering Company. (See Day, Herbert W., assignor.)
Spreckels, Diedrich H., Dexter, Minn. Poultry-crate. No. 1,329,844; Jan. 27; v. 270; p. 588.
Sprenkel, Ward F., *et al.* (See Matthiessen, Conrad S., assignor.)
Spreyer, George S., Fallon, Nev. Tail-board scraper. No. 1,343,097; June 8; v. 275; p. 344.
Spriggs, William L., Bixby, Okla. Eaves-trough screen. No. 1,351,703; Aug. 31; v. 277; p. 930.
Spring, Frederick L., Indianapolis, Ind. Spring shock-absorber. No. 1,328,601; Jan. 20; v. 270; p. 421.
Spring, Frederick L., Indianapolis, Ind. Shock-absorbing spring. No. 1,386,167; Apr. 6; v. 273; p. 88.
Spring Stopper Company. (See Brown, Harry M., assignor.)
Springer, Aaron M., assignor to Oregon Woodenware Mfg. Co., Portland, Oreg. Ironing-board. No. 1,359,124; Nov. 16; v. 280; p. 480.
Springer, Elijah H., assignor of one-half to E. C. Ashton, Salt Lake City, Utah. Pusher for Grain-heading machine. No. 1,338,707; May 4; 274; p. 11.
Springer, Frank B., Windsor, Colo. Potato-digger. No. 1,358,504; Nov. 9; v. 280; p. 332.
Springer, John, Jersey City, N. J. Frame for radiators. No. 1,357,597; Nov. 2; v. 280; p. 74.
Springer, William J., Detroit, Mich. Safety device for elevators. No. 1,346,274; July 13; v. 276; p. 249.
Springer, William N., Peoria, Ill. Tractor for farm implements. No. 1,355,178; Oct. 12; v. 279; p. 198.
Springer, William N., South Bend, Ind., assignor to Avery Company. Plow. No. 1,332,079; Feb. 24; v. 271; p. 633.
Springer, William N., South Bend, Ind., assignor to The Illinois Silo Company, Bloomington, Ill. Cultivator mechanism. No. 1,358,997; Nov. 16; v. 280; p. 457.
Springfield Auto Lock Company, The. (See Pfeifer, John, assignor.)
Springfield Motors Company. (See Hedenstrom, Ernest E. G., assignor.
Springmeyer, Frederick W. (See Wertz, T., and Springmeyer.)
Springmeyer, Pattberg, & Co. (See Nickel, Fredrick, assignor.)
Sprinkell, William A., Springfield, Ill. Safety-razor-blade protector. No. 1,335,863; Apr. 6; v. 273; p. 30.
Sprinkle, Lake H., Brooklyn, N. Y. Storm-shield for automobiles and other conveyances. No. 1,361,193; Dec. 7; v. 281; p. 42.
Sprinkle, Lake H., Brooklyn, and F. Wolfe, Merrick, N. Y. Tire for automobile-wheels. No. 1,363,821; Dec. 28; v. 281; p. 697.
Sprong, Severn D., Brooklyn, N. Y. Apparatus for adding to the output of a main power station, the output of one or more distant sources. No. 1,329,276; Jan. 27; v. 270; p. 577.
Sproul, John J., New Haven, Conn. Elevator. No 1,326,984; Jan. 6; v. 270; p. 20.
Sproul, William B., Lansford, Pa. Brake-shoe. No. 1,355,708; Oct. 12; v. 279; p. 300.
Sprulll, Fuller, Denver, Colo. Pouring-cap for containers. No. 1,361,200; Dec. 7; v. 281; p. 61.
Spuhler, Victor, Rothkreuz, Switzerland. Two-stroke-cycle internal-combustion engine. No. 1,346,066; July 6; v. 276; p. 146.
Spurr, Charles S., Los Angeles, and H. P. Randall, Pasadena, assignors of one-half to F. W. Frame, Los Angeles, Calif. Fuel-package. No. 1,327,175; Jan. 6; v. 270; p. 55.
Square, D. Company. (See Ball, A. P., and Zenker, assignors.)
Square D. Company. (See Oakes, Archie, assignor.)
Squassi, Alessandro. (See Cortese, E., Crespi, and Squassi.)
Squibb, Lloyd Y., Camden, N. J., assignor to Victor Talking Machine Company. Sound-tube for talking-machines. No. 1,341,522; May 25; v. 274; p. 747.
Squier, Arthur H., Tionesta, Pa. Valve-plug. No. 1,335,034; Mar. 30; v. 272; p. 759.
Squire, Gayle L., Hastings, Fla. Barrel, wine, and lard press. No. 1,344,156; June 22; v. 275; p. 680.
Squire, Gayle L., Hastings, Fla. Chair. No. 1,350,041; Aug. 17; v. 277; p. 497.
Squires, Charles W., Beverly, Mass. Circuit-closer. No. 1,341,347; May 25; v. 274; p. 713.
Squires, Clarence M., Columbus, Ohio. Hanging flower-basket. No. 1,357,738; Nov. 2; v. 280; p. 102.
Squires, Clyde R., Baylor, Mont. Footrest for radiators. No. 1,347,129; July 20; v. 276; p. 476.
Squires, Harold W., Amityville, assignor to Research Corporation, New York, N. Y. Apparatus for the electrical treatment of gases. No. 1,342,651; June 8; v. 275; p. 255.
Srader, Charles N., Canton, Okla. Repair-hub and wheel-pulley. No. 1,346,857; July 20; v. 276; p. 422.
Srnka, Oskar, Brünn, Austria. Telegraph installation. No. 1,355,863; Oct. 19; v. 279; p. 371.
Srofe, Jesse, Cincinnati, Ohio. Box-blank. No. 1,381,395; Feb. 17; v. 271; p. 483.
Srofe, Jesse, Cincinnati, Ohio. Box-blank. No. 1,360,042; Nov. 23; v. 280; p. 707.
St. Andre, Joseph B., Bayfield, Wis., assignor of one-fourth to J. J. Guelff and W. C. Harrington, Marquette, Mich. Cloth cutting and measuring machine. No. 1,330,453; Feb. 10; v. 271; p. 288.
St. Charles, William P., *et al.* (See Ormiston, John A., assignor.)
St. Clair, Richard A., Los Angeles, Calif. Incubator. No. 1,338,404; Apr. 27; v. 273; p. 715.
St. Cyr, Leander F., assignor of one-half to W. J. St. Cyr, Springfield, Mass. Combined trundle and operating-handle therefor. No. 1,356,023; Oct. 19; v. 279; p. 402.
St. Cyr, William J. (See St. Cyr, Leander F., assignor.)
St. John, Clayton, Miamisburg, Ohio. Governor-valve controller for steam-engines. No. 1,354,703; Oct. 5; v. 279; p. 52.
St. John, Everett, Philadelphia, Pa. Automobile-lock. No. 1,354,071; Sept. 28; v. 278; p. 603.
St. John, George E., and C. Bowman, Hammond, Ind. Split pulley No. 1,352,761; Sept. 14; v. 278; p. 239.

Digitized by Google

St. John, Henry A., and G. H. Sauer, Utica, N. Y. Folding dining-room set. No. 1,339,232; May 4; v. 274; p. 108.

St. John, Justin M., Cedar Rapids, Iowa. Weeder. No. 1,328,063; Jan. 13; v. 270; p. 283.

St. John, Miles C., Chicago, Ill. Rubber propeller. No. 1,360,596; Nov. 30; v. 280; p. 884.

St. Joseph Iron Works. (See Eklund, John G., assignor.)

St. Louis Car Company. (See Seelar, Luther F., assignor.)

St. Louis, George C. (See Pearson, C., and St. Louis.)

St. Onge, Amasa. (See Bahan, G. F., and St. Onge.)

St. Onge, Alexander, assignor of one-half to M. I. Thomson, Sheffield, Mass. Griddle-greaser. No. 1,335,998; Apr. 6; v. 273; p. 56.

St. Onge, Amasa, Union, S. C. Starting device for lapping-machines. No. 1,362,446; Dec. 14; v. 281; p. 338.

St. Peter, Napoleon, Fairfield, Me. Knockdown container. No. 1,334,186; Mar. 16; v. 272; p. 492.

St. Wrba, Joseph J., Houston, Tex. Hydrocarbon-burner. No. 1,347,920; July 27; v. 276; p. 690.

Stabell, Joseph F., Buffalo, N. Y. Apparatus for use in road-bed construction. No. 1,349,012; Aug. 10; v. 277; p. 222.

Stableford Truck Manufacturing Co. (See Hunsaker, A. O., and Woodmancy, assignors.)

Stabler Auto Accessories Co., The. (See Stabler, Robinson R., assignor.)

Stabler, Robinson R., Baltimore, Md. Automobile-lock. No. 1,363,373; Dec. 28; v. 281; p. 610.

Stabler, Robinson R., assignor to The Stabler Auto Accessories Co., Baltimore, Md. Automobile-lock. No. 1,363,225; Dec. 28; v. 281; p. 593.

Stacey, Alfred E., Jr., Chicago, Ill., assignor to Carrier Engineering Corporation, New York, N. Y. Apparatus and method for controlling temperature and humidity. No. 1,330,920; Feb. 17; v. 271; p. 395.

Stacey, Cyril F., London, England, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Treadle mechanism. No. 1,348,188; Aug. 3; v. 277; p. 11.

Stacey, Harry C. (See Gardiner, R. H., and Stacey.)

Stach, Carl T. (See Connell and Stach.)

Stach, Howard J. (See Weatherly, S. M., and Stach.)

Stachowski, Joseph F., New York, N. Y. Bearing. No. 1,350,245; Aug. 17; v. 277; p. 536.

Stack, William F., Bay St. Louis, Miss. Method of and means for feeding lubricants to steam-engines. No. 1,353,081; Sept. 14; v. 278; p. 302.

Stacke, Paul F., Jersey City, N. J. Sliding door. No. 1,343,416; June 15; v. 275; p. 470.

Stacy, Bessie, Port Clinton, Ohio. Suspenders. No. 1,345,969; July 6; v. 276; p. 127.

Stacy, Grover C., Dallas, Tex. Cotton-cleaner. No. 1,357,124; Oct. 26; v. 279; p. 665.

Stadig, Olof L., St. Francis, Me. Planing-machine. No. 1,337,286; Apr. 20; v. 273; p. 434.

Stadig, Walter L., St. Francis, Me. Rotary snow-plow and snow-loader. No. 1,348,383; Aug. 3; v. 277; p. 50.

Stadler, John, Shawinigan Falls, Quebec, Canada. Suspension equalizing device for revolving drums. No. 1,351,497; Aug. 31; v. 277; p. 890.

Stadtler, Mathias, Chicago, Ill. Slat-support for upholstery. No. 1,346,347; July 13; v. 276; p. 263.

Stady, Charles E. (See Kempton, A. F., and Stady.)

Stafford, Abel E., and J. W. Unger, Correctionville, Iowa. Valve-lifter. No. 1,355,432; Oct. 12; v. 279; p. 247.

Stafford, Arthur E., assignor to Potter's Asbestos Company Limited, Rochdale, Lancaster, England. Manufacturing jointing materials. No. 1,347,918; July 27; v. 276; p. 690.

Stafford, Benjamin E. D., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,347,560; July 27; v. 276; p. 618.

Stafford, Benjamin E. D., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,354,629; Oct. 5; v. 279; p. 37.

Stafford, Benjamin E. D., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,359,627; Nov. 23; v. 280; p. 624.

Stafford, Benjamin E. D., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,359,628; Nov. 23; v. 280; p. 624.

Stafford, Charles M., Minneapolis, Minn. Silo. No. 1,330,821; Feb. 17; v. 271; p. 376.

Stafford, Charles M., Minneapolis, Minn. Portable house. No. 1,350,478; Aug. 24; v. 277; p. 629.

Stafford, Charles M., Herrick, Ill. Grain-car door. No. 1,332,311; Mar. 2; v. 272; p. 26.

Stafford Company, The. (See Le Doux, Hector, assignor.)

Stafford, David G., Phoenix, British Columbia, Canada. Automatic control mechanism for hoisting machinery and the like. No. 1,340,301; May 18; v. 274; p. 442.

Stafford, Earl C., assignor to The Railway Automatic Safety Appliance Company, Philadelphia, Pa. Train-stop system. No. 1,327,176; Jan. 6; v. 270; p. 55.

Stafford, Francis A., assignor to The Hunter Arms Company, Inc., Fulton, N. Y. Firing mechanism for firearms. No. 1,354,701; Oct. 5; v. 279; p. 51.

Stafford, George A. and R. M., Sour Lake, Tex. Tool-joint. No. 1,344,774; June 29; v. 275; p. 867.

Stafford, Hal R., North Plainfield, N. J., assignor to Franklin Railway Supply Company. Flexible joint. No. 1,345,334; June 29; v. 275; p. 974.

Stafford, Lewis F., Chicago, Ill. Bumper for vehicles. No. 1,348,329; Aug. 3; v. 277; p. 39.

Stafford, Lewis F., Syracuse, N. Y. Wrist-supporting attachment for pianos. No. 1,359,928; Nov. 23; v. 280; p. 684.

Stafford, Maud H., Norfolk, Va. Muff-holder. No. 1,332,449; Mar. 2; v. 272; p. 53.

Stafford, Rogers T., assignor to B. A. Ballou & Company, Incorporated, Providence, R. I. Display-card. No. 1,343,651; June 15; v. 275; p. 516.

Stafford, Roy M. (See Stafford, George A. and R. M.)

Stafford, Thomas H., Franklin, N. H. Gas-mantle lamp. No. 1,340,424; May 18; v. 274; p. 466.

Stafford, Walter K., Newton, Mass., assignor to American Stove Company, St. Louis, Mo. Heater. (Reissue.) No. 15,000; Dec. 7; v. 281; p. 264.

Stage, Harold I., Denver, Colo. Rock-drill seating and controlling means. No. 1,336,930; Apr. 13; v. 273; p. 293.

Stage, Harold I., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Fluid-operated percussive tool. No. 1,353,796; Sept. 21; v. 278; p. 503.

Stage, Harold I., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Regulating-valve for drill-feeding means. No. 1,361,636; Dec. 7; v. 281; p. 132.

Stageberg, Martin G., Thief River Falls, Minn. Clock-spring. No. 1,337,097; Apr. 13; v. 273; p. 324.

Stagl, Joseph E., Brooklyn, N. Y. Belt-shifter. No. 1,362,967; Dec. 21; v. 281; p. 490.

Stahl, Charles E. (See Livingston, S. D., and Stahl.)

Stahl, Charles E., Winthrop Harbor, assignor to F. C. Austin, Chicago, Ill. Excavator-bucket cleaner. No. 1,336,595; Apr. 13; v. 273; p. 228.

Stahl, Edward F., *et al.* (See Aschinger, Harry W., assignor.)

Stahl, Henry C., Pompeys Pillar, Mont. Combined umbrella-stand and pedestal. No 1,336,321; Apr. 6; v. 273; p. 116.

Stahl, Michael L. (See Sandt, A. R., Walz, and Stahl.)

Stahl, Michael, assignor to Cultitractor Company, Minneapolis, Minn. Traction-engine. No. 1,338,754; May 4; v. 274; p. 20.

Stahl, Oscar, *et al.* (See Aschinger, Harry W., assignor.)

Stahl, Rodolphe, Jackson, Mich. Transmission mechanism. No. 1,355,516; Oct. 12; vol. 279; p. 264.

Stahl, William, Philadelphia, Pa. Door or ventilator-latch. No. 1,361,194; Dec. 7; v. 281; p. 42.

Stahell, Reitmann & Co. (See Züst, P., and Metzger, assignors.)

Stahlgren, Karl A., Newport, R. I. Hydrocarbon-burner. No. 1,341,524; May 25; v. 274; p. 748.

Stahlgren, Karl A., and T. L. Shannon, Newport, R. I. Apparatus for extracting grease from organic matter. No. 1,341,523; May 25; v. 274; p. 747.

Stahlhuth, Samuel G. (See Hiller, Charles, assignor.)

Stahlman, Edward G., Pomona, Calif. Gas-burner. No. 1,329,641; Feb. 3; v. 271; p. 55.

Stainer, Josef, Pierre, S. D. Reinforced-concrete bridge structure. No. 1,344,929; June 29; v. 275; p. 896.

Stair, William S., assignor to Shipley Construction and Supply Company, Brooklyn, N. Y. Automatic expansion-valve. No. 1,341,766; June 1; v. 275; p. 31.

Stake, Herman. See Ekvall and Stake.)

Stake, Walter J. (See Hensel, H. F., and Stake.)

Stake, Walter J., Sugar Bush, Wis. Tractor. No. 1,333,512; Mar. 9; v. 272; p. 305.

Staley, Joseph H., Columbus, Ind. Auto-piston clamping-vise. No. 1,349,532; Aug. 17; v. 277; p. 418.

Staley, Joseph H., Columbus, Ohio. Radiator-stand. No. 1,349,633; Aug. 17; v. 277; p. 418.

Staley, Joseph H., Columbus, Ind. Axle-stand. No. 1,350,119; Aug. 17; v. 277; p. 512.

Staley, Joseph H., Columbus, Ind. Auto-ambulance truck. No. 1,350,527; Aug. 24; v. 277; p. 639.

Staley, Joseph H., Knightstown, Ind. Press for removing bushings and the like. No. 1,352,098; Sept. 7; v. 278; p. 74.

Staley, Joseph H., Knightstown, Ind. Engine-stand. No. 1,363,286; Dec. 28; v. 281; p. 594.

Stålhane, Otto, and O. O. Kring, Djursholm, Sweden. Electric soldering-iron. No. 1,345,645; July 6; v. 276; p. 62.

Stalker, Frank. (See Olinger, T., and Stalker.)

Stalker, Frederick W. (See Norwood, H. Y., and Stalker.)

Stalker, James (See Comber and Stalker.)

Stalley, Harry C., East Cleveland, Ohio. Storage-battery-plate tray. No. 1,329,556; Feb. 3; v. 271; p. 40.

Stalter, Andrew C., Flanagan, Ill. Ridge-plowing attachment for harrows. No. 1,327,119; Jan. 6; v. 270; p. 45.

Stamatelopoulos, Bartholomus A. (See Kasematis, G. N., and Stamatelopoulos.)

Stambaugh, Henry J. (See Adelman, A., and Stambaugh.)

Stambaugh, Henry J., and G. M. McCann, Washington, D. C. Breech mechanism. No. 1,348,594; Aug. 3; v. 277; p. 90.

Stambaugh, Henry J., and G. M. McCann, assignors to United States Ordnance Company, Washington, D. C. Gun structure. No. 1,358,343; Nov. 9; v. 280; p. 282.

Digitized by Google

Stamm, Ernest W., St. Louis, Mo. Box-fastener. No. 1,346,566; July 13; v. 276; p. 307.
Stamm, George T., Upland, assignor to F. Stebler, Riverside, Calif. Apparatus for drying fruit. No. 1,346,986; July 20; v. 276; p. 449.
Stamm, Hans. (See Hänni, Ernest, assignor.)
Stamm, Howard B., Cincinnati, Ohio. Searchlight. No. 1,334,471; Mar. 23; v. 272; p. 591.
Stamp, Burnie A., North Braddock, Pa. Shipping-crate. No. 1,362,645; Dec. 21; v. 281; p. 429.
Stamp, Edward S. (See Gould, F. J., and Stamp.)
Stamp, Hugo O., Milwaukee, Wis. Self-loading concrete mixing and distributing machine. No. 1,349,231; Aug. 10; v. 277; p. 266.
Stanbon, Harry R., Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Folding-machine. No. 1,330,921; Feb. 17; v. 271; p. 395.
Stanbrough, William M., Newburgh, N. Y. Dental articulator. No. 1,343,691; June 15; v. 275; p. 524.
Stancliffe, Cecil W. (See Cornett, G., and Stancliffe.)
Standard Accessory Corporation. (See Bernecker, George E., assignor.)
Standard Asphalt & Refining Company. (See Riehle, Henry C., assignor.)
Standard Battery Manufacturing Company. (See Hawkins, Alda F., assignor.)
Standard Car Construction Company. (See Fox, Adam H., assignor.)
Standard Car Truck Company. (See Barber, F. L., and Webb, assignors.)
Standard Car Truck Company. (See Barber, John C., assignor.)
Standard Car Truck Company. (See Webb, Edwin W., assignor.)
Standard Carrier Company. (See Pond, Martin A., assignor.)
Standard Computing Scale Company, The. (See Buckingham, Fremont H., assignor.)
Standard Computing Scale Company, The. (See Jaenichen, Louis, assignor.)
Standard Corrugated Box Co. (See Borders, H. L., and Lewis, assignors.)
Standard Detroit Tractor Co. (See Jacobs, George S., assignor.)
Standard Engineering Company. (See Newcomb, E. C., and Scott, assignors.)
Standard Engineering Company. (See Newcomb, Edward C., assignor.)
Standard Engineering Company. (See Scott, Lewis L., assignor.)
Standard Machine Brush Company, The. (See Gladwin, John D., assignor.)
Standard Machine Company. (See Houseman, Harold E., assignor.)
Standard Machinery Company. (See Zahn, Otto E., assignor.)
Standard Manufacturing Company. (See Elmstrom, Anshelm B., assignor.)
Standard Oil Company. (See Burns and Winger, assignors.)
Standard Oil Company. (See Cobb, Ernest B., assignor.)
Standard Oil Company. (See Harrison, Poole, assignor.)
Standard Oil Company. (See Heilenday, Richard A., assignor.)
Standard Oil Company, The. (See Humphreys, R. E., and Burton, assignors.)
Standard Oil Company. (See Palmer, Charles S., assignor.)
Standard Oil Company of New York. (See Baldwin, Edward A., assignor.)
Standard Oilcloth Co. (See Frohner, Edward H., assignor.)
Standard Optical Company. (See Van Tassel, John R., assignor.)
Standard Oven Company. (See Hartzell, Amos F., assignor.)
Standard Paint Company, The. (See Abraham, Herbert, assignor.)
Standard Parts Company, The. (See Annable, Lee V., assignor.)
Standard Parts Company, The. (See Belmont, Harry H., assignor.)
Standard Parts Company, The. (See Bryant, Richard S., assignor.)
Standard Parts Company, The. (See Fay, Thomas J., assignor.)
Standard Parts Company, The. (See Holt, John W., assignor.)
Standard Parts Company, The. (See Jobski, Otto H., assignor.)
Standard Parts Company, The. (See McIntyre, Michael M., assignor.)
Standard Parts Company, The. (See Manternach, J. C., and Gressle, assignors.)
Standard Parts Company, The. (See Manternach, John C., assignor.)
Standard Parts Company, The. (See Schumann, Frank, J., assignor.)
Standard Parts Company, The. (See Sessions, Frank L., assignor.) (Reissue.)
Standard Parts Company, The. (See Theberath, Joseph C., assignor.)
Standard Parts Company, The. (See Utz, John C., assignor.)
Standard Parts Company, The. (See Utz, John G., assignor.)
Standard Scientific Company. (See Schreiner, Arthur W., assignor.)
Standard Separator Company. (See Hofmann, G. W., and Muray, assignors.)
Standard Sewing Machine Company, The. (See Nelson, George W., assignor.)
Standard Stoker Company. (See Carey, James A., assignor.)
Standard Tank Car Company. (See Wood-Smith, George F., assignor.)
Standard Thermometer Company. (See Adair, Thomas D., Jr., assignor.)
Standard Thermometer Company. (See Naugle, Joseph R., assignor.)
Standard Tool & Manufacturing Company. (See McIntosh, James A., assignor.)
Standefer, Alvin P., Miami, Okla. Ore-concentrating jig. No. 1,333,001; Mar. 9; v. 272; p. 209.
Standeford, Archie D., Kansas City, Mo. Universal transmission-gearing. No. 1,356,231; Oct. 19; v. 279; p. 444.
Stander, Jacob, Brooklyn, N. Y. Resilient tire and filling therefor. No. 1,343,233; June 15; v. 275; p. 435.
Standerwick, Reginald G., Lynn, Mass., assignor to General Electric Company. Turbine-driven set. No. 1,337,098; Apr. 13; v. 273; p. 325.
Standex Manufacturing Corporation. (See Burton, Charles S., assignor.)
Standex Manufacturing Corporation. (See Hansen, Viggo N., assignor.)
Standing, William R. H., Toronto, Ontario, Canada. Clothespin. No. 1,362,152; Dec. 14; v. 281; p. 281.
Standish, Charles F., Greene, N. Y. Fruit-jar opener. No. 1,359,629; Nov. 23; v. 280; p. 625.
Standish, John F., Winthrop, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Finishing-machine. No. 1,343,379; June 15; v. 275; p. 463.
Standish, John F., Winthrop, Mass., assignor to United-Xpedite Finishing Company, Portland, Me. Receptacle for finishing-machines. No. 1,353,860; Sept. 28; v. 278; p. 560.
Standley, Melvin H., assignor of one-half to W. Ward, Scott City, Kans. Spring for auto-tires. No. 1,336,868; Apr. 13; v. 273; p. 281.
Standley, William E., Pittsburgh, Pa., assignor to Window Glass Rotary Pot Company. Cutting-off device for glass-drawing apparatus. No. 1,338,109; Apr. 27; v. 273; p. 660.
Stanek, Jerry, Homestead, Mont. Toy. No. 1,334,813; Mar. 23; v. 272; p. 657.
Stanfield, G. A., and C. Scroggin, Lake City, Iowa. Threshing-machine. No. 1,350,085; Aug. 17; v. 277; p. 505.
Stanfield, Isaac P., Washington, D. C. Window washing and drying machine. No. 1,332,640; Mar. 2; v. 272; p. 89.
Stanfield, Orson P., Baxter Springs, Kans. Chat drawoff. No. 1,358,122; Nov. 9; v. 280; p. 238.
Stanford, Arthur L., Chicago, Ill. Rail-anchor. No. 1,347,301; July 20; v. 276; p. 510.
Stanford, Arthur L., Chicago, Ill. Rail-anchor. No. 1,347,302; July 20; v. 276; p. 510.
Stang, Carl, Chicago, Ill. Photometer. No. 1,329,439; Feb. 3; v. 271; p. 18.
Stanhope, Alfred W., Dayton, Ohio. Electric safety-switch. No. 1,355,179; Oct. 12; v. 279; p. 198.
Stanifer, William D., Chickasha, Okla. Gin-saw cleaner, tooth straightener and sharpener. No. 1,328,212; Jan. 13; v. 270; p. 311.
Stankiewicz, Joseph F., Bandon, Oreg. Gopher-trap. No. 1,351,351; Aug. 31; v. 277; p. 862.
Stanko, John, Kool, Wyo. Needle-holder. No. 1,349,232; Aug. 10; v. 277; p. 266.
Stankoff, Vsevolod N., New York, N. Y. Inside cylinder-covering for reducing steam consumption. No. 1,360,043; Nov. 23; v. 280; p. 707.
Stanley, Abram R., Boston, Mass. Engine. No. 1,335,618; Mar. 30; v. 272; p. 867.
Stanley, Carroll M. (See Sweetland, E. J., and Stanley.)
Stanley, Charles O., assignor of fifty-five per cent. to G. A. Stricker, Buffalo, N. Y. Torpedo-holder. No. 1,330,823; Feb. 17; v. 271; p. 375.
Stanley, Chester F., Ashland, Ky. Airplane. No. 1,345,970; July 6; v. 276; p. 127.
Stanley, Freelan O., Newton, assignor to Unit Railway Car Company, Cambridge, Mass. Steam-boiler. No. 1,342,606; June 8; v. 275; p. 247.
Stanley Gears Limited. (See Stanley, George E., assignor.)
Stanley, George C. (See Saunders, C. L., Stanley, and Bennett.)
Stanley, George E., assignor to Stanley Gears Limited, Coventry, England. Change-speed gear. No. 1,355,864; Oct. 19; v. 279; p. 371.
Stanley Insulating Company. (See Smith, Herbert M., assignor.)
Stanley, James F., Anderson, Ind. Reversible clutch mechanism. No. 1,330,822; Feb. 17; v. 271; p. 375.

Digitized by Google

Stanley, Jacob H., Spring City, Pa. Woman's union-suit. No. 1,342,188; June 1; v. 275; p. 113.
Stanley, Jean J., Port Chester, N. Y. Plant-support. No. 1,337,803; Apr. 20; v. 273; p. 532.
Stanley, John, Santa Monica, Calif., and J. C. Porter, Seattle, Wash. Amusement device. No. 1,350,086; Aug. 17; v. 277; p. 506.
Stanley, Lester A., Washington, D. C. Printing device. No. 1,336,989; Apr. 13; v. 273; p. 304.
Stanley, Robert B., Kansas City, Mo. Paper-hanger's cutting-board. No. 1,341,445; May 25; v. 274; p. 733.
Stanley, Robert C., New Brighton, assignor to The International Nickel Company, New York, N. Y. Separating nickel and copper from copper-nickel mattes or materials. No. 1,351,877; Sept. 7; v. 278; p. 33.
Stanley Rule & Level Company, The. (See Schade, Edmund A., assignor.)
Stanley, Spencer C., U. S. Army. Machine-gun tripod. No. 1,335,403; Mar. 30; v. 272; p. 828.
Stanley, Theodore D., assignor to Leland Lock Company, Detroit, Mich. Lock for steering-wheels. No. 1,354,630; Oct. 5; v. 279; p. 37.
Stanley, William H., Montreal, Quebec, Canada. Coloring and parting material for dental impressions and molds. No. 1,349,013; Aug. 10; v. 277; p. 223.
Stanley Works, The. (See Parsons, S. W., and Waters, assignors.)
Stanley Works, The. (See Parsons, Stuart W., assignor.)
Stanley Works, The. (See Waters, Archibald D., assignor.)
Stansbie, Jess, Cambridge, Nebr. Halter. No. 1,352,557; Sept. 14; v. 278; p. 198.
Stansbury, Harry S., Monkton, assignor of one-half to H. I. Rowe, Baltimore, Md. Grease-gun. No. 1,330,728; Feb. 10; v. 271; p. 290.
Stansell, Arthur L., Nashville, Tenn. Parcel-binder. No. 1,336,168; Apr. 6; v. 273; p. 88.
Stanson, Ernest J., Antigo, Wis. Vegetable-peeler. No. 1,337,414; Apr. 20; v. 273; p. 459.
Stanton, Garrett J., Los Angeles, Calif. Iceless refrigerator. No. 1,348,823; Aug. 3; v. 277; p. 133.
Stanton, Garrett J., Los Angeles, Calif. Wall construction. No. 1,357,125; Oct. 26; v. 279; p. 665.
Stanton, George B., Farmers Valley, Pa. Process and apparatus for the production of sheet-glass. No. 1,338,261; Apr. 27; v. 273; p. 689.
Stanton, John H., Toronto, Ontario, Canada. Feed-water regulator and alarm. No. 1,354,702; Oct. 5; v. 279; p. 227.
Stanton, Joseph B., assignor to W. N. Matthews and Brother, Inc., St. Louis, Mo. Pump-valve. No. 1,355,285; Oct. 12; v. 279; p. 219.
Stanton, William H., Ridley Park, Pa. Producing silicate of soda and the like. No. 1,352,700; Sept. 14; v. 278; p. 51.
Stanyo, Desider, Milwaukee, Wis. Fan-wheel. No. 1,352,848; Sept. 14; v. 278; p. 257.
Staples, Albert F., Boston, Mass., assignor to The Hoover Suction Sweeper Company, North Canton, Ohio. Power-transmission mechanism. No. 1,332,285; Mar. 2; v. 272; p. 11.
Staples, Arthur L., assignor to Winchester Repeating Arms Company, New Haven, Conn. Hand-lamp switch. No. 1,349,660; Aug. 17; v. 277; p. 462.
Staples, Edward C., Canton, assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Metallic shelving. No. 1,336,490; Apr. 13; v. 273; p. 208.
Staples, George W., Attalla, Ala. Device for holding packages of letters. No. 1,330,659; Feb. 10; v. 271; p. 277.
Staples, George W., Mount Crawford, Va. Dish-washer. No. 1,332,080; Feb. 24; v. 271; p. 633.
Stapleton, William J., Minneapolis, Minn. Level. No. 1,332,928; Mar. 9; v. 272; p. 195.
Stapp, Edward H., assignor of one-half to E. E. Stapp, Kevil, Ky. Grain-scouring machine. No. 1,345,273; June 29; v. 275; p. 962.
Stapp, Ernest E. (See Stapp, Edward H., assignor.)
Star Device Manufacturing Company. (See Stone, Lloyd R., assignor.)
Star Piano Company. (See Maxwell, John S., assignor.)
Star, Richard, Brooklyn, N. Y. Flexible connection. No. 1,345,971; July 6; v. 276; p. 127.
Starch, Thomas, Ralls, Tex. Cultivator attachment. No. 1,351,704; Aug. 31; v. 277; p. 930.
Starcke, Eugene P., Port Arthur, Tex. Can-closure. No. 1,327,067; Jan. 6; v. 270; p. 35.
Starer, Isaac, New York, N. Y. Laying out garments and ruler therefor. No. 1,360,327; Nov. 30; v. 280; p. 831.
Sta-Rite Hair Pin Company. (See Lewis, Arthur J., assignor.)
Stark, Charles H., Chicago, Ill. Weather-strip. No. 1,338,403; Apr. 27; v. 273; p. 715.
Stark, George S. (See Hamer, Samuel H., assignor.)
Stark, John, Chester, Pa. Hydrocarbon-burner. No. 1,360,595; Nov. 30; v. 280; p. 884.
Stark, John R., assignor to Webster Electric Company, Racine, Wis. Ignition-magneto. No. 1,342,607; June 8; v. 275; p. 247.
Stark, John R., assignor, by mesne assignments, to Webster Electric Company, Racine, Wis. Magneto. No. 1,357,008; Oct. 26; v. 279; p. 642.
Stark, John R., assignor to Webster Electric Company, Racine, Wis. Internal-combustion engine and magneto. No. 1,359,285; Nov. 16; v. 280; p. 510.
Stark, John R., assignor to Owens-Stark Manufacturing Company, Nashville, Tenn. Adjustable bed. No. 1,343,593; June 15; v. 275; p. 504.
Stark, Ottman G. (See Flammang, John, assignor.)
Stark, Ottmar G. (See Jones, Lloyd A., assignor.)
Stark, Truman E., Aurora, Ill. Farm-tractor. No. 1,347,526; July 27; v. 276; p. 611.
Stark, William F., Chicago, Ill. Smoke-reducer. No. 1,332,771; Mar. 2; v. 272; p. 114.
Starkenberg, Karl R., Andover, assignor to J. J. Petroske, Methuen, Mass. Centering device. No. 1,328,213; Jan. 13; v. 270; p. 311.
Starker, Charles W., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Brazing end rings. No. 1,341,682; June 1; v. 275; p. 14.
Starker, Charles W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Explosion-proof device for electrical apparatus. No. 1,362,049; Dec. 14; v. 281; p. 261.
Starker, Charles W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,362,050; Dec. 14; v. 281; p. 261.
Starker, Charles W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Means for balancing high-speed commutator-cylinders. No. 1,363,688; Dec. 28; v. 281; p. 671.
Starker, Charles W., and C. H. Hodgkins, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company. Control device for explosion-proof electrical apparatus. No. 1,347,879; July 27; v. 276; p. 682.
Starkey, David W., Chicago, Ill. Conveyer. No. 1,355,180; Oct. 12; v. 279; p. 198.
Starkey, William C., assignor to The Ohio Brass Company, Mansfield, Ohio. Applying rail-bonds. No. 1,336,931; Apr. 13; v. 273; p. 293.
Starkey, William C., assignor to The Ohio Brass Company, Mansfield, Ohio. Rail-bond. No. 1,336,932; Apr. 13; v. 273; p. 293.
Starkie, John W., East Elmhurst, and C. E. Clinton, Corona, N. Y., assignors to The Aeolian Company. Combination-action for organs. No. 1,360,695; Nov. 30; v. 280; p. 903.
Starkie, Nellie. (See Starkie, Robert E. and N.)
Starkie, Robert E., Burnley, England. Combined toy and savings-bank or collecting-box. No. 1,345,414; July 6; v. 276; p. 17.
Starkie, Robert E. and N., Burnley, England. Combined toy and savings-bank. No. 1,338,879; May 4; v. 274; p. 42.
Starks, Christian J., Cloutierville, La., assignor of one-half to W. A. Brownlee, Colfax, La. Railway-joint. No. 1,331,396; Feb. 17; v. 271; p. 483.
Starkweather, Amy R., Amsterdam, N. Y. Underskirt. No. 1,350,848; Aug. 24; v. 277; p. 700.
Starkweather, George A., Fort Madison, Iowa. Shock-absorber. No. 1,339,484; May 11; v. 274; p. 231.
Starling, S. G., Forest Gate, and A. J. Hughes, assignors to Henry Hughes and Son Limited, London, England. Anemometer. No. 1,352,391; Sept. 7; v. 278; p. 129.
Starmer, Mary, Newport News, Va. Pin-fastener. No. 1,354,631; Oct. 5; v. 279; p. 37.
Starr, Alla, Paducah, Ky. Torpedo-guard. No. 1,330,729; Feb. 10; v. 271; p. 290.
Starr, Charles E., Sedro Woolley, Wash. Driving mechanism for motor-vehicles. No. 1,362,361; Dec. 14; v. 281; p. 322.
Starr, Charles E., Sedro Woolley, assignor to Perfecto Gear Differential Co., Seattle, Wash. Driving mechanism for motor-vehicles. No. 1,362,360; Dec. 14; v. 281; p. 321.
Starr, Charles M., South Bend, Ind. Tire-pump. No. 1,346,919; July 20; v. 276; p. 435.
Starr, David J., Cincinnati, Ohio. Garment-stretcher. No. 1,330,356; Feb. 10; v. 271; p. 220.
Starr, Edward B., and H. E. Marsh, Lompoc, Calif., assignors to Celite Products Company, Los Angeles, Calif. Method and apparatus for cutting bricks or blocks from natural deposits. No. 1,353,188; Sept. 21; v. 278; p. 383.
Starr, John W., Charleston, Wash. Kerosene-burner for ranges. No. 1,336,103; Apr. 6; v. 273; p. 76.
Starr, Lawrence, South Williamsport, Pa. Necktie-stiffener. No. 1,358,400; Nov. 9; v. 280; p. 294.
Starr Piano Company, The. (See Maxwell, John S., assignor.)
Starr Piano Company, The. (See Mayer, Fred G., assignor.)
Starr, Raymond F., *et al.* (See De Cano, Victor M., assignor.)
Starr, Samuel E. (See Haas, Victor E., assignor.)
Starratt, William H., Haverhill, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Fastening-inserting machine. No. 1,331,129; Feb. 17; v. 271; p. 434.
Starrett, Harold E., Olna, Hawaii. Mulsh-layer. No. 1,341,484; May 25; v. 274; p. 741.
Starring, Alfred A., Kansas City, Mo., assignor to B. Mossman, trustee. Desensitized nitroglycerin explosive. No. 1,336,661; Apr. 13; v. 273; p. 240.

Digitized by Google

Stasinski, Joseph, Philadelphia, Pa. Safety-valve for water-tube boilers. No. 1,356,836; Oct. 26; v. 279; p. 609.
Staso Laminated Slate Company. (See Cooke, Arthur B., assignor.)
Stathopoulo, Epaminondas A., New York, N. Y. Banjo. No. 1,347,597; July 27; v. 276; p. 625.
Stathopoulos, Harris G., New Haven, Conn. Drum. No. 1,362,271; Dec. 14; v. 281; p. 305.
Statler, Charles A., Chicago, Ill. Roof. No. 1,338,262; Apr. 27; v. 273; p. 689.
Statler, Charles A., Chicago, Ill. Roof. No. 1,362,755; Dec. 21; v. 281; p. 450.
Staub, Herman, assignor to Textile Machine Works, Wyomissing, Pa. Braiding-carrier. No. 1,360,810; Nov. 30; v. 280; p. 926.
Staub, Otto, Nicolaus, Calif. Wood-splitting means. No. 1,356,413; Oct. 19; v. 279; p. 479.
Staud y Ximénez, Fernando, deceased, New York, N. Y.; F. J. Salas, administrator; A. Berea, administrator de bonis non, vice F. J. Salas, resigned. Floating drydock. No. 1,333,580; Mar. 9; v. 272; p. 318.
Staud y Ximénez, Fernando, deceased; F. J. Salas, administrator, New York, N. Y.; A. Berea, administrator de bonis non, vice F. J. Salas, resigned. Apparatus for raising sunken vessels. No. 1,348,595; Aug. 3; v. 277; p. 90.
Staude, E. G., Manufacturing Co., The. (See Boker, Vitus A., assignor.)
Staude, Edwin G., Minneapolis, Minn. Steering-gear attachment. No. 1,333,347; Mar. 9; v. 272; p. 274.
Stauder, Emanuel, assignor to Huther Brothers Saw Manufacturing Company, Rochester, N. Y. Support for grinding cutter-heads. No. 1,358,998; Nov. 16; v. 280; p. 457.
Staufenbeil, Karl, Dubuque, Iowa. Collar-clip. No. 1,339,073; May 4; v. 274; p. 79.
Stauffiger, Charles W. (See Kolbenstetter, C. M., and Stauffiger.)
Stauwerke, A.-G. (See Sommer, Otto, assignor.)
Staver, Fred C., Avis, Pa. Combination-lock. No. 1,338,796; May 4; v. 274; p. 28.
Stay, Theron D., assignor to The Aluminum Castings Company, Cleveland, Ohio. Metallic alloy and making same. No. 1,352,322; Sept. 7; v. 278; p. 117.
Stayman, Solomon, Worcester, Mass. Stepladder-chair. No. 1,362,051; Dec. 14; v. 281; p. 261.
Stazak, Michael B., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Reverting-test circuit for telephone systems. No. 1,357,303; Nov. 2; v. 280; p. 20.
Stead, William H., Binghamton, N. Y. Headlight. No. 1,335,081; Mar. 30; v. 272; p. 768.
Stead, William T., Memorial Center. (See Davison, Charles W., assignor.)
Stealy, Eliza R., Shenandoah, Iowa. Apparatus for the examination of X-ray and other negatives. No. 1,350,042; Aug. 17; v. 277; p. 497.
Ste. Anonyme pour l'Exploitation des Procédés Westinghouse Leblanc. (See Leblanc, Maurice, assignor.)
Stearn, Franklin A. (See Lundell, A. E., and Stearn.)
Stearn, Franklin A. (See Lundell and Stearn.)
Stearn, Franklin A. (See Reynolds, J. N., and Stearn.)
Stearn, Franklin A., Paterson, N. J., assignor to Westerr Electric Company, Incorporated, New York, N. Y Listening-key. No. 1,356,176; Oct. 19; v. 279; p. 433.
Stearns and Foster Company, The. (See Foster, William R., assignor.)
Stearns and Foster Company, The. (See Paddack, Truman G., assignor.)
Stearns, Frederick S., Swampscott, Mass., assignor to F. G. Gale, Waterville, Quebec, Canada. Current-regulator for electric welding-machines. No. 1,349,303; Aug. 10; v. 277; p. 281.
Stearns, Henry A., Jr., Woonsocket, R. I., assignor of one-half to J. Cochrane, Franklin, Mass. Fastening device. No. 1,333,348; Mar. 9; v. 272; p. 274.
Stearns, Milo H., *et al.* (See Seymour, John K., assignor.)
Stearns, Ralph W., assignor to General Electric Company, Schenectady, N. Y. Condenser. No. 1,349,792; Aug. 17; v. 277; p. 449.
Stebbins, Frank E. (See Coffman, Edward S., assignor.)
Stebbins, William A., Seattle, Wash. Razor. No. 1,347,234; July 20; v. 276; p. 496.
Stebler, Fred. (See Bryan, Edgar J., assignor.)
Stebler, Fred. (See Stamm, George T., assignor.)
Stechbart, Bruno, assignor to American Projecting Company, Chicago, Ill. Motion-picture machine. No. 1,334,824; Mar. 23; v. 272; p. 564.
Stecher Lithographic Company. (See Lehr, Frank J., assignor.)
Stedler, Heinrich W., Loosnitz, Erzgebirge, Germany. Manufacture of shoes. No. 1,359,847; Nov. 23; v. 280; p. 668.
Stedman, Burton P., Peoria, Ill. Tire. No. 1,354,520; Oct. 5; v. 279; p. 15.
Steed, Wayman W. (See Hook, Alexander E., assignor.)
Steedman, Henry P. G., London, England, assignor to Verplex Art Company, Inc. Embossing or graining machine. No. 1,358,891; Nov. 16; v. 280; p. 437.
Steel, Charles C., and T. H. Lynn, Williamsport, Pa. Tire-carrier for automobiles. No. 1,327,742; Jan. 13; v. 270; p. 223.
Steel, Charles C., and T. H. Lynn, Williamsport, Pa. Tire-carrier for automobiles. No. 1,347,561; July 27; v. 276; p. 618.
Steel, Charles C., and T. H. Lynn, Williamsport, Pa. Spare-rim carrier for automobiles. No. 1,347,562; July 27; v. 276; p. 618.
Steel Fabricating Company. (See Rowan, Robert C., assignor.)
Steel Heddle Manufacturing Company. (See Kaufmann, Jacob, assignor.)
Steel Products Company, The. (See Bishop, Ashley L., assignor.)
Steel Products Company, The. (See Chism, Louis W., assignor.)
Steel Products Company, The. (See Parsons, Robert G., assignor.)
Steel Products Company, The. (See Scott, Lester E., assignor.)
Steel Utilities. (See Morgan, John D., assignor.)
Steel Utilities. (See Wurts, E. V., and Pero, assignors.)
Steel Utilities. (See Wurts, Edward V., assignor.)
Steel Utilities, Incorporated. (See Frelinghuysen, George G., assignor.)
Steel Utilities Incorporated. (See Hawthorne, Louis A., assignor.)
Steel Velour Screen Corporation. (See Shay, James M., assignor.)
Steel & Wire Company. (See Davis, Rufus T., assignor.)
Steel Works Appliance Company. (See Zacharias, Walther C., assignor.)
Steele, Archie W., Bloomfield, assignor to W. J. Hawkins, Montclair, N. J. Electric fuse. No. 1,335,404; Mar. 30; v. 272; p. 828.
Steele, Archie W., Bloomfield, assignor to W. J. Hawkins, Montclair, N. J. Electric fuse. No. 1,335,405; Mar. 30; v. 272; p. 828.
Steele, Charles B., New York, N. Y. Convertible car. No. 1,329,440; Feb. 3; v. 271; p. 18.
Steele, Charles B., Philadelphia, Pa. Motor-vehicle. (Reissue.) No. 14,850; Apr. 27; v. 278; p. 764.
Steele, Charles W., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Buffing and cementing machine. No. 1,332,929; Mar. 9; v. 272; p. 195.
Steele, Claude L., Muskogee, Okla. Water-motor. No. 1,361,111; Dec. 7; v. 281; p. 26.
Steele, Frank A., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Apparatus for building up plies of plastic material. No. 1,363,441; Dec. 28; v. 281; p. 622.
Steele, Harney G., Johnstown, Pa. Auxiliary traction-wheel for motor-vehicles. No. 1,337,672; Apr. 20; v. 273; p. 507.
Steele, Hugh C., Minneapolis, Minn. Traction-belt. No. 1,339,298; May 4; v. 274; p. 119.
Steele, John H. (See Lane, C. H., and Steele.)
Steele, Lawrence C., Pittsburgh, Pa. Rolling-mill. No. 1,342,608; June 8; v. 275; p. 247.
Steele, Peter W., Philadelphia, Pa. Lock-block for steel bed-springs. No. 1,334,814; Mar. 23; v. 272; p. 657.
Steele, Robert G., Kelso, Saskatchewan, Canada. Adjustable screen for threshing-machines. No. 1,348,668; Aug. 3; v. 277; p. 104.
Steelhammer, John F. (See Shantz, Ralph A., assignor.)
Steelhammer, Oscar A., *et al.* (See Shantz, Ralph A., assignor.)
Steely, Dale G., Cambridge, F. W. Blake, Medford Hillside, and G. A. Lorentzen, West Somerville, Mass. Extension-edge-box-forming machine. No. 1,332,641; Mar. 2; v. 272; p. 89.
Steell, Edgar M., Spokane, Wash. Tire-boot. No. 1,331,855; Feb. 24; v. 271; p. 591.
Steen, Buford J., Goose Creek, Tex. Elevator. No. 1,328,602; Jan. 20; v. 270; p. 421.
Steen, John I., Waukegan, Ill. Lock. No. 1,351,806; Sept. 7; v. 278; p. 18.
Steen, Melvin O., Knox, N. D. Toy. No. 1,361,637; Dec. 7; v. 281; p. 132.
Steenfeldt-Lindholm, Peter, Christiania, Norway. Drying or cooling apparatus. No. 1,353,358; Sept. 21; v. 278; p. 416.
Steenstrup, Christian, Schenectady, N. Y. Combined hanger and guard for pulleys. No. 1,362,362; Dec. 14; v. 281; p. 322.
Steenstrup, Christian, Schenectady, N. Y. Wheel. No. 1,362,363; Dec. 14; v. 281; p. 322.
Steenstrup, Christian, Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 1,353,797; Sept. 21; v. 278; p. 503.
Steenstrup, Christian, Schenectady, N. Y., assignor to General Electric Company. Manufacturing packings for rotating shafts. No. 1,357,739; Nov. 2; v. 280; p. 102.
Steere, Albert L., Petersburg, Va. Shaker-operating mechanism. No. 1,336,322; Apr. 6; v. 273; p. 116.
Steere, Clarence E., assignor to H. Scarborough, Milwaukee, Wis. Feeder for can-filling machines. No. 1,343,417; June 15; v. 275; p. 470.
Steere, Clarence E., assignor to H. Scarborough, Milwaukee, Wis. Can-filling machine. No. 1,346,141; July 13; v. 276; p. 222.
Steere, Clarence E., assignor to H. Scarborough, Milwaukee, Wis. Fruit and vegetable pulping machine. No. 1,349,739; Aug. 17; v. 277; p. 439.

Digitized by Google

Steere, Collis H., San Francisco, Calif. Combination folding table and cabinet. No. 1,363,062; Dec. 21; v. 281; p. 510.
Steere, Thomas E. (See Pearman, Robert H., assignor.)
Steere, William J., Rockwood, Tenn. Looping-machine. No. 1,327,638; Jan. 13; v. 270; p. 203.
Steere, William J., Rockwood, Tenn. Brush device for trimming-machines. No. 1,348,247; Aug. 3; v. 277; p. 24.
Steese, Rollins C., *et al.*, trustees. (See Warren, William H., assignor.)
Stefaniak, Stanley. (See Velchansky, J. A., and Stefaniak.)
Steffen, Frederick W. (See Steffen, John L., assignor.)
Steffen, John L., assignor of one-half to F. W. Steffen, Chicago, Ill. Method and means for determining routes and locations on highways. No. 1,334,120; Mar. 16; v. 272; p. 480.
Steffen, Robert C., Middletown, Ohio. Galvanizing metals. No. 1,334,1834 Mar. 16; v. 272; p. 491.
Steffens, Walter L., Cincinnati, assignor to The Philip Carey Manufacturing Company, Lockland, Ohio. Pipe-covering system. (Reissue.) No. 14,970; Oct. 26; v. 279; p. 683.
Stefferud, Leonard C., Brandt, S. D. Steam-jacket for oil-pumps. No. 1,328,906; Jan. 27; v. 270; p. 508.
Steffner, Karl O., Karlskoga, Sweden. Injector. No. 1,362,052; Dec. 14; v. 281; p. 261.
Stegath, Frederick H., Ann Arbor, Mich. Duplex tube. No. 1,363,064; Dec. 21; v. 281; p. 510.
Stegmaier, Carl W., Kingston, Mass. Collapsible tube. No. 1,356,837; Oct. 26; v. 279; p. 600.
Stehle, Frank K., and C. A. Keffer, Philadelphia, Pa. Piston-ring. No. 1,353,082; Sept. 14; v. 278; p. 302.
Steidle, Hans, Munich, assignor to Siemens & Halske A. G., Siemensstadt, near Berlin, Germany. Telephone system. No. 1,332,275; Mar. 2; v. 272; p. 19.
Steiff, William, assignor of one-fourth to S. Goldstein, one-fourth to I. Goldstein, one-fourth to A. Goldstein, and one-fourth to M. Goldstein, Chicago, Ill. Bed davenport or couch. No. 1,330,990; Feb. 17; v. 271; p. 409.
Steiger, Andrew W., Hartford, Conn., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,338,467; Apr. 27; v. 273; p. 727.
Steiger, Eugen, Zurich, Switzerland. Sound recorder and reproducer. No. 1,350,246; Aug. 17; v. 277; p. 536.
Steigerwald, Edward, Philadelphia, Pa. Score-keeping apparatus. No. 1,346,987; July 20; v. 276; p. 449.
Steigerwald, Edward, Philadelphia, Pa. Trump-indicating device. No. 1,351,971; Sept. 7; v. 278; p. 51.
Steigerwald, Edward, and F. L. H. Pfeil, Philadelphia, Pa. Score-keeping apparatus. No. 1,327,177; Jan. 6; v. 270; p. 56.
Steil, Raymond J. (See Lively, P., and Steil.)
Steimer, Charles M., administrator. (See Steimer, Theodore C.)
Steimer, Theodore C., deceased; C. M. Steimer, administrator, Pittsburgh, Pa.; said Theodore C. Steimer assignor to Empire Machine Company. Glass-handling apparatus. No. 1,362,756; Dec. 21; v. 281; p. 450.
Stein, Abraham, Boston, Mass. Work holder and guide for sewing-machines. No. 1,346,988; July 20; v. 276; p. 449.
Stein, Charles, assignor to Societe Ch. M. Stein & Cie., Paris, France. Blast-furnace. No. 1,347,796; July 27; v. 276; p. 665.
Stein, Charles, Paris, assignor to Societe Ch. M. Stein & Cie., Paris, France. Regenerative furnace. No. 1,350,624; Aug. 24; v. 277; p. 657.
Stein, Clarence L., assignor of one-half to H. M. Johnson, Aurora, Ill. Fish-stringer. No. 1,350,390; Aug. 24; v. 277; p. 611.
Stein, George W., Chicago, Ill. Combined ventilator and screen. No. 1,331,397; Feb. 17; v. 271; p. 484.
Stein International Power Co., The. (See Stein, Samuel P., assignor.)
Stein, Ivie, Santa Ana, Calif. Range-meter. No. 1,356,838; Oct. 26; v. 279; p. 609.
Stein, Joseph, Philadelphia, Pa. Support for garment-hangers. No. 1,353,287; Sept. 21; v. 278; p. 402.
Stein, Louis, Washington, D. C. Cushion-heel. No. 1,360,811; Nov. 30; v. 280; p. 926.
Stein, Noah S., Bristol, Ind. Engine. No. 1,328,972; Jan. 27; v. 270; p. 520.
Stein, Rudolph F., Minneapolis, Minn., assignor to United States Ordnance Company, Washington, D. C. Dismantling secondary batteries. No. 1,358,344; Nov. 9; v. 280; p. 282.
Stein, Rudolph F., Minneapolis, Minn., assignor to United States Ordnance Company, Washington, D. C. Apparatus for facilitating the dismantling of secondary batteries. No. 1,358,345; Nov. 9; v. 280; p. 282.
Stein, Samuel F., Williamsport, Pa. Label. No. 1,339,007; May 4; v. 274; p. 66.
Stein, Samuel F., Williamsport, Pa. Bifurcated garment. No. 1,347,188; July 20; v. 276; p. 487.
Stein, Samuel P., assignor to The Stein International Power Co., Newark, N. J. Wave-power air-compressor. No. 1,358,259; Nov. 9; v. 280; p. 265.
Steinacher, Hertha, New York, N. Y. Hair-curler. No. 1,346,920; July 20; v. 276; p. 435.
Steinbach, Max, New York, N. Y. Wire-tightening implement. No. 1,352,484; Sept. 14; v. 278; p. 184.
Steinback, Hartman, Detroit, Mich. Safety attachment for elevators. No. 1,332,365; Mar. 2; v. 272; p. 87.
Steinbart, Alfred. (See Hewitt, G. W., and Steinbart.)
Steinbauer, Edwin O., Niles, Mich. Priming attachment for internal-combustion engines. No. 1,340,087; May 11; v. 274; p. 345.
Steinbaugh, John, *et al.* (See Pickup, George E., assignor.)
Steinberger, Louis, Brooklyn, N. Y. Insulator. No. 1,335,801; Apr. 6; v. 273; p. 18.
Steinberger, Louis, Brooklyn, N. Y. Insulating-collector or distributer-spool. No. 1,339,988; May 11; v. 274; p. 326.
Steinberger, Louis, Brooklyn, N. Y. Insulated support for electrical conductors. No. 1,342,310; June 1; v. 275; p. 136.
Steinberger, Louis, Brooklyn, N. Y. Insulated support for electrical conductors. No. 1,342,311; June 1; v. 275; p. 136.
Steinberger, Louis, Brooklyn, N. Y. Insulated support for electrical conductors. No. 1,342,312; June 1; v. 275; p. 136.
Steinberger, Louis, Brooklyn, N. Y. Disk suspension-insulator. No. 1,348,248; Aug. 3; v. 277; p. 24.
Steinberger, Louis, Brooklyn, N. Y. Insulating-knob. No. 1,348,249; Aug. 3; v. 277; p. 24.
Steinberger, Louis, and G. Hill, Brooklyn, N. Y. Insulated support for inductance-coils. No. 1,342,303; June 1; v. 275; p. 135.
Steinberger, Louis, and G. Hill, Brooklyn, N. Y. Insulated support for electrical conductors. No. 1,342,304; June 1; v. 275; p. 135.
Steinberger, Louis, and G. Hill, Brooklyn, N. Y. Insulated support for electrical conductors. No. 1,342,305; June 1; v. 275; p. 135.
Steinberger, Louis, and G. Hill, Brooklyn, N. Y. Insulated support for electrical conductors. No. 1,342,306; June 1; v. 275; p. 136.
Steinberger, Louis, and G. Hill, Brooklyn, N. Y. Insulated support for electrical conductors. No. 1,342,307; June 1; v. 275; p. 136.
Steinberger, Louis, and G. Hill, Brooklyn, N. Y. Insulated support for inductance coils. No. 1,342,308; June 1; v. 275; p. 136.
Steinberger, Louis, and G. Hill, Brooklyn, N. Y. Insulated support for electrical conductors. No. 1,342,309; June 1; v. 275; p. 136.
Steinborn, Otto, Arlington, Minn. Threshing-machine. No. 1,344,599; June 22; v. 275; p. 768.
Steinbrecher, John, Chicago, Ill. Combined shank and arch support for footwear. No. 1,347,061; July 20; v. 276; p. 465.
Steinbuch, Ewald. (See Luib, A., and Steinbuch.)
Steinen, Otto. (See La Fontaine, George A., assignor.)
Steiner, Earling A., Hillyard, Wash. Railway-car. No. 1,359,444; Nov. 16; v. 280; p. 543.
Steiner, Earling A., Hillyard, Wash. Indicator for page ends. No. 1,359,445; Nov. 16; v. 280; p. 543.
Steiner, Jacob, Long Island City, N. Y. Hydrometer apparatus. No. 1,362,053; Dec. 14; v. 281; p. 261.
Steiner, Jakob. (See Roth, E., and Steiner.)
Steinhauser, George R. (See Smith, Alva B., assignor.)
Steinle, George A., M. Smith, and L. R. Taylor, Madison, Wis. Lathe-frame. No. 1,333,043; Mar. 9; v. 272; p. 217.
Steinle, William J., Elmhurst Heights, N. Y., assignor to Morgan & Wright. Apparatus for manufacturing solid tires. No. 1,356,891; Oct. 26; v. 279; p. 619.
Steinman, Harry N., Pittsburgh, Pa. Cutting-machine for tailors' soap-chalk. No. 1,333,740; Mar. 16; v. 272; p. 409.
Steinmeier, William F. (See Wright, Jefferson G., assignor.)
Steinmetz, Henry C., Pacific Grove, Calif. Repair-hanger. No. 1,358,260; Nov. 9; v. 280; p. 265.
Steinmetz, Joseph A., Philadelphia, Pa. Aircraft construction. No. 1,332,930; Mar. 9; v. 272; p. 195.
Steinmetz, Joseph A., Philadelphia, Pa. Valve. No. 1,334,566; Mar. 23; v. 272; p. 610.
Steinmetz, Joseph A., Philadelphia, Pa. Navigating aircraft. No. 1,340,573; May 18; v. 274; p. 494.
Steinmetz, Joseph A., Philadelphia, Pa. Submarine-destroying bomb. No. 1,349,014; Aug. 10; v. 277; p. 223.
Steinmetz, Joseph A., Philadelphia, Pa. Providing a launching-way for aircraft. No. 1,363,539; Dec. 28; v. 281; p. 643.
Steinmetz, Robert, assignor of one-tenth to S. S. Amdursky, Rochester, N. Y. Cushion-cover for seats and backs of chairs. No 1,349,347; Aug. 10; v. 277; p. 289.
Steinmeyer, John W., East Orange, N. J., assignor to American Car and Foundry Company, New York, N. Y. Uncoupling device. No. 1,354,923; Oct. 5; v. 279; p. 95.
Steinrok, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Manufacture of treated stone. No. 1,349,389; Aug. 10; v. 277; p. 298.

Digitized by Google

Steinschneider, Leo, Brünn, Austria, assignor, by mesne assignments, to The Chemical Foundations, Inc. Preheater for use in the chemical industry, especially for use in the petroleum tar and the like industry. No. 1,337,287; Apr. 20; v. 273; p. 435.
Stelmach, Joseph, Troy, N. Y. Routing-cutter. No. 1,359,765; Nov. 23; v. 280; p. 652.
Stelting, Carl W., assignor of one-half to C. R. Nelson, Medford, Okla. Gear-puller for automobiles and all other kinds of machinery. No. 1,351,307; Aug. 31; v. 277; p. 852.
Stember, John, New York, N. Y. Bag. No. 1,360,044; Nov. 23; v. 280; p. 707.
Stempkowski, Henry. (See Dulczewski, S., and Stempkowski.)
Stenberg, Arvid E., Reed City, Mich. Locking device for transmissions. No. 1,361,195; Dec. 7; v. 281; p. 43.
Stenberg, Nils E., Ilseng Station, Norway. Bond connection or interlock for deal houses. No. 1,334,121; Mar. 16; v. 272; p. 481.
Stenberg, Sven A. A., Los Angeles, Calif. Pin and needle cushion. No. 1,357,086; Oct. 26; v. 279; p. 658.
Stenberg, Sven A. A., Los Angeles, Calif. Combination watch and alarm-clock. No. 1,361,413; Dec. 7; v. 281; p. 87.
Stenbo, Kristen S., Copenhagen, Denmark. Vertical coffee-mill. No. 1,336,793; Apr. 13; v. 273; p. 266.
Stenbo, Kristen S., Copenhagen, Denmark. Grinding-mill for coffee. No. 1,340,635; May 18; v. 274; p. 506.
Stender, William, Milwaukee, Wis. Bottle-feeding mechanism for annealing-ovens. No. 1,339,834; May 11; v. 274; p. 297.
Stengel, Herman, assignor to A. J. Otten, Los Angeles, Calif. Angle-gage attachment for paper-cutting machines. No. 1,345,033; June 29; v. 275; p. 915.
Stengel, Joseph L., Cincinnati, Ohio, assignor to Union Special Machine Company, Chicago, Ill. Stocking-guide for sewing-machines. No. 1,339,280; May 4; v. 274; p. 107.
Stenger, Francis J., assignor of one-half to L. J. Goyette, Detroit, Mich. Ball-joint piston-connecting rod. No. 1,350,747; Aug. 24; v. 277; p. 681.
Stenger, Willebald C., Chicago, Ill. Cutting-tool for wood-carving machines. No. 1,330,287; Feb. 10; v. 271; p. 207.
Stenquist, David, Stockholm, Sweden. Metal alloy for cable-casings and the like. No. 1,360,045; Nov. 23; v. 280; p. 708.
Stensgard, Julius J., Woodville, Wis. Automobile-knuckle. No. 1,355,709; Oct. 12; v. 279; p. 300.
Stepanian, Stephen, Columbus, Ohio. Wrench. No. 1,336,794; Apr. 13; v. 273; p. 267.
Stephan, Charles H., Springfield, Ohio. Medical appliance. No. 1,327,786; Jan. 13; v. 270; p. 231.
Stephan, Jacob, Cleveland, Ohio. Furniture. No. 1,327,178; Jan. 6; v. 270; p. 56.
Stephan, Jacob, Cleveland, Ohio. Furniture. No. 1,357,740; Nov. 2; v. 280; p. 102.
Stephan, Johan, Clifton, N. J. Safety device for ladders. No. 1,352,323; Sept. 7; v. 278; p. 117.
Stephen, Archibald R., Lodi, Calif. Almond-huller. No. 1,359,766; Nov. 23; v. 280; p. 652.
Stephens-Adamson Manufacturing Co. (See Kendall, Myron A., assignor.)
Stephens, Daniel M. (See Gilbert, G. A., and Stephens, assignors.)
Stephens, Frank P., and E. E. Johnson, Jr., Montgomery, Ala. Battery-box. No. 1,359,446; Nov. 16; v. 280; p. 544.
Stephens, Grace H. (See Gilbert, G. A., and Stephens.)
Stephens, Howard O., Pittsfield, Mass., assignor to General Electric Company. Electric apparatus. No. 1,345,712; July 6; v. 276; p. 75.
Stephens, James W. T., assignor of one-third to H. A. W. Howcott and one-third to J. P. Baldwin, New Orleans, La. Road-making machine. No. 1,354,076; Sept. 28; v. 278; p. 604.
Stephens Manufacturing Company. (See Stephens, Thomas J., assignor.)
Stephens, Philip A., St. Louis, Mo. Advertising device. No. 1,335,262; Mar. 30; v. 272; p. 801.
Stephens, Richard, Clevedon, England. Drum-brake with internal shoes. No. 1,327,068; Jan. 6; v. 270; p. 36.
Stephens, Richard H., assignor of one-half to Kynoch Limited, Birmingham, England. Vapor-stove. No. 1,348,759; Aug. 3; v. 277; p. 121.
Stephens, Samuel S. (See Fontaine, Robert A., assignor.)
Stephens, Sterling, Bushnell, Fla. Auto-rim. No. 1,341,942; June 1; v. 275; p. 65.
Stephens, Thomas J., New Castle, Pa., assignor to Stephens Manufacturing Company, Los Angeles, Calif. Process and apparatus for burning gaseous fuel with high efficiency. No. 1,343,098; June 8; v. 275; p. 345.
Stephens, William B., Sunset, Tex. Wire-stretcher. No. 1,253,083; Sept. 14; v. 278; p. 306.
Stephenson, Albert R., Jackson, Ohio. Railway-tie. No. 1,334,815; Mar. 23; v. 272; p. 657.
Stephenson, Axel G., Denver, Colo. Thermostat. No. 1,337,623; Apr. 20; v. 273; p. 498.
Stephenson, Jay G., Athens, Tenn. Motor-driven disk plow. No. 1,361,638; Dec. 7; v. 281; p. 133.
Stephenson, Leigh J., assignor of one-half to G. H. Burrage, Chicago, Ill. Dynamo-electric machinery. (Reissue.) No. 14,787; Jan. 6; v. 270; p. 136.
Stephenson, Leonard D., New York, N. Y., assignor, by mesne assignments, to Paper Bottle and Can Company, Inc., Wilmington, Del. Machine for capping multisided paper bottles. No. 1,349,233; Aug. 10; v. 277; p. 267.
Stephenson, Leonard D., New York, N. Y., assignor, by mesne assignments, to American Paper Bottle and Can Company, Inc., Wilmington, Del. Machine for capping multisided paper bottles. No. 1,349,234; Aug. 10; v. 277; p. 267.
Stepin, John, Derby, Conn. Ventilator. No. 1,345,514; July 6; v. 276; p. 37.
Stepisich, Dominick W. (See Johnson, Joseph F., assignor.)
Stereoscopic Motion Picture Company. (See Ball, Waldon S., assignor.)
Stereotintograph Company, The. (See Zimmer, Harry R., assignor.)
Sterling, Bernard A., Chicago, Ill. Hair-waver. No. 1,347,830; July 27; v. 276; p. 672.
Sterling Bronze Company. (See Roth, Louis, assignor.)
Sterling Manufacturing Company. (See Danke, Arthur E., assignor.)
Sterling Manufacturing Company, The. (See Eynon, George A., assignor.)
Sterling Products Company Inc. (See Wilkinson, Arthur W., assignor.)
Sterling Specialties Manufacturing Company. (See Vierling, F. J., Bartholomew, and Smith, assignors.)
Sterling, William W., Jerome, Ariz. Device for impelling rotary flying toys. No. 1,334,184; Mar. 16; v. 272; p. 491.
Stern, Adolf, Chicago, Ill. Socket-wrench. No. 1,343,692; June 15; v. 275; p. 525.
Stern, Adolf, assignor to F. W. Stewart Mfg. Co., Chicago, Ill. Piston-ring and the like. No. 1,350,849; Aug. 24; v. 277; p. 700.
Stern, Arnold, Jamaica Heights, N. Y. Machine-embroidered garment. No. 1,362,272; Dec. 14; v. 281; p. 305.
Stern, Charles, New York, N. Y. Combination holder and strainer. No. 1,336,491; Apr. 13; v. 273; p. 208.
Stern, Charles, New York, N. Y. Collar-button. No. 1,342,003; June 1; v. 275; p. 76.
Stern-Coleman Diamond Machine Company. (See Coleman, Clyde J., assignor.)
Stern, Frank, Philadelphia, Pa. Display-stand for automobile-tires. No. 1,361,112; Dec. 7; v. 281; p. 26.
Stern, Irving L., New Orleans, La., assignor to Havana-American Co., New York, N. Y. Cigar-pouch. No. 1,335,454; Mar. 30; v. 272; p. 837.
Stern, Louis J., Boston, Mass. Mirror-mounting. No. 1,328,930; Jan. 27; v. 270; p. 512.
Stern, Louis J., assignor to E. R. Tolfree, Boston, Mass. Water-filter. No. 1,339,045; May 4; v. 274; p. 74.
Stern, Morris J., Brooklyn, N. Y. Food-service cabinet. No. 1,349,634; Aug. 17; v. 277; p. 419.
Sternaman, John. (See Weaver, I. A., and Sternaman.)
Sternaman, John, Jr. (See Weaver, I. A., and Sternaman.)
Sternberg, Ernst M., West Allis, Wis. Automobile-truck differential mechanism. No. 1,334,325; Mar. 23; v. 272; p. 564.
Sterne, Alfred J., Scarsdale, N. Y. Buckle. No. 1,340,302; May 18; v. 274; p. 442.
Sterne, Alfred J., Scarsdale, N. Y. Buckle. No. 1,340,303; May 18; v. 247; p. 443.
Sterner, Frank F., Harnedsville, Pa. Car-mover. No. 1,328,770; Jan. 20; v. 270; p. 452.
Sternhagen, Joseph P. (See Getman, D. D., and Sternhagen.)
Sterns, Edward, St. Louis, Mo., assignor, by mesne assignments, to Surety Tire & Rubber Company, Wilmington, Del. Tire-making device. No. 1,348,596; Aug. 3; v. 277; p. 91.
Sterns, Edward O., assignor to Rotary Tire and Rubber Company, Columbus, Ohio. Sign. No. 1,326,985; Jan. 6; v. 270; p. 20.
Sterzing, Albert A. E., New York, N. Y. Steam-turbine. No. 1,338,708; May 4; v. 274; p. 11.
Stettiner Chamotte-Fabrik Aktiengesellschaft vormals Didier. (See Piernay, Walter, assignor.)
Steude, Ernest, Los Angeles, Calif. Concrete construction. No. 1,360,978; Nov. 30; v. 280; p. 958.
Stevens, Arthur L., Chicago, Ill. Gas-burning furnace. No. 1,356,568; Oct. 26; v. 279; p. 556.
Stevens Brothers. (See Stevens, Robert H., assignor.)
Stevens, Charles C., Los Angeles, Calif. Aerial torpedo. No. 1,331,398; Feb. 17; v. 271; p. 484.
Stevens, Charles D., Freeport, N. Y. Piston-ring remover. No. 1,330,750; Feb. 10; v. 271; p. 294.
Stevens, Charles W., assignor to Stevens Partition and Floor Deadener Co., Chicago, Ill. Bowling-alley. No. 1,339,425; May 11; v. 274; p. 219.
Stevens, Charles W., assignor to Stevens Partition and Floor Deadener Co., Chicago, Ill. Floor construction. No. 1,343,234; June 15; v. 275; p. 435.
Stevens & Company. (See McGuckin, John J., assignor.)
Stevens and Company. (See Stevens, Frederick A., assignor.)
Stevens, Cora, administratrix. (See Stevens, Lyman S.)

Digitized by Google

Stevens, Erick P., Jersey City, N. J., assignor of one-half to A. B. Andersson, New York, N. Y. Thimble-clamp. No. 1,358,892; Nov. 16; v. 280; p. 437.
Stevens, Frank W., Newton, Mass. Casement-window hardware. No. 1,334,412; Mar. 23; v. 272; p. 581.
Stevens, Frank W., Newton, Mass. Casement-window hardware. ((Reissue.) No. 14,993; Nov. 23; v. 280; p. 749.
Stevens, Fred, Philadelphia, Pa. Automatic flying-machine and bomb-dropper. No. 1,357,531; Nov. 2; v. 280; p. 62.
Stevens, Frederick A., assignor to Stevens and Company, Incorporated, Providence, R. I. Ophthalmic mounting. No. 1,338,880; May 4; v. 274; p. 42.
Stevens, Frederick M., New York, N. Y., assignor to John Chatillon & Sons. Method and apparatus for wiring coil-springs. No. 1,351,448; Aug. 31; v. 277; p. 881.
Stevens, Frederick M., New York, N. Y., assignor to John Chatillon & Sons. Scale. No. 1,351,449; Aug. 31; v. 277; p. 881.
Stevens, Frederick W., St. Paul, Minn. Mounting for cards. No. 1,356,892; Oct. 26; v. 279; p. 619.
Stevens, George B., Granite City, Ill. Roll-polisher. No. 1,327,639; Jan. 13; v. 270; p. 203.
Stevens, George E., Lynn, Mass., assignor to General Electric Company. Adjustable mounting for automobile-starting motors and generators. No. 1,357,741; Nov. 2; v. 280; p. 103.
Stevens, George H., Woodbury Heights, N. J. Gas-burner. No. 1,350,678; Aug. 24; v. 277; p. 667.
Stevens, Grace M., Middletown Springs, Vt. Double envelop. No. 1,347,797; July 27; v. 276; p. 666.
Stevens, Harry J., Oakland, Calif. Lid-rack. No. 1,359,125; Nov. 16; v. 280; p. 480.
Stevens, Henry R., and R. L. Rockwell, assignors to Universal Elevated Railway Company, Seattle, Wash. Electrical switch. No. 1,345,899; July 6; v. 276; p. 112.
Stevens, Herbert C. M. (See Coatalen and Stevens, assignors.)
Stevens, Horace D., Summit county, assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Trimming-machine. No. 1,347,976; July 27; v. 276; p. 701.
Stevens, Howard M., Indianapolis, Ind. Armor for inner tubes. No. 1,343,418; June 15; v. 275; p. 470.
Stevens, Howard M., assignor of one-half to R. T. Hodges, Somerset, Ky. Lubricating device for valves and cylinders of superheating-locomotives. No. 1,351,807; Sept. 7; v. 278; p. 18.
Stevens, J., Arms Company. (See Lewis, George S., assignor.)
Stevens, J. E., Company, The. (See Lorentz, Hermann G., assignor.)
Stevens, John C., Portland, Oreg. Water-level recorder and volume meter. No. 1,356,322; Oct. 19; v. 279; p. 462.
Stevens, John P. (See Wedein, A., and Stevens.)
Stevens, Lawrence V., Pittsburgh, Pa. Push-pole for locomotives. No. 1,349,985; Aug. 17; v. 277; p. 486.
Stevens, Lyman S., deceased, Baltimore, Md.; C. Stevens, administratrix. Reversible internal-combustion engine. No. 1,331,399; Feb. 17; v. 271; p. 484.
Stevens Partition and Floor Deadener Co. (See Stevens, Charles W., assignor.)
Stevens, Richard H., Philadelphia, Pa. Hot-metal car. No. 1,332,772; Mar. 2; v. 272; p. 114.
Stevens, Richard H., Philadelphia, Pa. Hot-metal car. No. 1,332,773; Mar. 2; v. 272; p. 114.
Stevens, Richard H., Philadelphia, Pa. Gate-operating device for shafts. No. 1,342,832; June 8; v. 275; p. 292.
Stevens, Robert H., Larchmont, assignor to Stevens Brothers, New York, N. Y. Emulsifier. No. 1,351,352; Aug. 31; v. 277; p. 862.
Stevens, Robert W., New Haven, Conn. Shower-pipe for paper-making machines. No. 1,352,485; Sept. 14; v. 278; p. 184.
Stevens, Royale H., Risdon Road, Hobart, Tasmania, assignor to Electrolytic Zinc Company of Australasia Proprietary Limited, Melbourne, Victoria, Australia. Recovery of zinc by electrolysis. No. 1,347,189; July 20; v. 276; p. 487.
Stevens, Samuel M., Asheville, N. C. Revolving house. No. 1,358,798; Sept. 21; v. 278; p. 503.
Stevens, Sidney, Millinocket, Me. Toilet appliance. No. 1,357,742; Nov. 2; v. 280; p. 103.
Stevens, Walter R., Richmond, Ind. Direction-indicator for vehicles. No. 1,335,355; Mar. 30; v. 272; p. 819.
Stevens, William C., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controller. No. 1,327,787; Jan. 13; v. 270; p. 231.
Stevens, William C., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Variable-speed-transmission gearing. No. 1,344,319; June 22; v. 275; p. 712.
Stevens, William C., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Machine for making tire-casings. No. 1,334,185; Mar. 16; v. 272; p. 492.
Stevens, William C., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Machine and building tires. No. 1,352,099; Sept. 7; v. 278; p. 75.
Stevens, William H., New York, N. Y. Garter. No. 1,328,931; Jan. 27; v. 270; p. 513.
Stevens, William H., New York, N. Y. Clip or clasp. No. 1,342,698; June 8; v. 275; p. 265.
Stevens, William H., New York, N. Y. Clasp. No. 1,345,713; July 6; v. 276; p. 76.
Stevens, William H., New York, N. Y. Suspenders. No. 1,361,113; Dec. 7; v. 281; p. 27.
Stevens, William H., New York, N. Y. Fastener for use with belts. No. 1,361,921; Dec. 14; v. 281; p. 235.
Stevenson, Albert F. (See Phelps, E. B., Stevenson, and Baker.)
Stevenson, Albert W., Canandaigua, N. Y. Vacuum-jar opener. No. 1,361,639; Dec. 7; v. 281; p. 133.
Stevenson, Alexander, and A. Logan, Glasgow, Scotland. Coal-cutting machine. No. 1,359,126; Nov. 16; v. 280; p. 480.
Stevenson, Ashton G., New York, N. Y., assignor to Chicago Lino-Tabler Company, Chicago, Ill. Ruled printing-form. No. 1,349,536; Aug. 10; v. 277; p. 326.
Stevenson, Cecil V., Sydney, and H. Burgess, Paddington, New South Wales, Australia; said Burgess assignor to said Stevenson. Electric radiator. No. 1,339,935; May 11; v. 274; p. 317.
Stevenson, Charles M., Rockford, Ill. Stanchion-fastener and shock-absorber. No. 1,350,679; Aug. 24; v. 277; p. 668.
Stevenson, Charles M., Chicago, Ill., assignor to Stevenson Mfg. Co., Barton, Wis. Inclosure, pen, fence, and the like. No. 1,352,392; Sept. 7; v. 278; p. 129.
Stevenson, Earl P., assignor to Arthur D. Little, Inc., Cambridge, Mass. Making potassium carbonate. No. 1,360,046; Nov. 23; v. 280; p. 708.
Stevenson, Francis E., assignor to The Hydraulic Press Manufacturing Company, Mount Gilead, Ohio. Extrusion-press. No. 1,335,466; Mar. 30; v. 272; p. 839.
Stevenson, Francis E., assignor to The Hydraulic Press Manufacturing Company, Mount Gilead, Ohio. Press. No. 1,357,258; Nov. 2; v. 280; p. 11.
Stevenson Gear and Manufacturing Company. (See Stevenson, George E., assignor.)
Stevenson, George E., assignor to Stevenson Gear and Manufacturing Company, Indianapolis, Ind. Multiple shaper. No. 1,335,864; Apr. 6; v. 273; p. 30.
Stevenson, Hugh, & Sons. (See Oglesby, Samuel W., assignor.)
Stevenson, Hugh, & Sons. (See Thompson, Henry G., assignor.)
Stevenson, J. J. (See Jacobsen, Jens N., assignor.)
Stevenson, John R., Glasgow, Scotland. Stentering or stretching device applicable to heated cylindrical can-drying machines and the like for textile fabrics. No. 1,336,385; Apr. 6; v. 273; p. 129.
Stevenson, John S., Baltimore, Md. Spark-indicator and plug-tester. No. 1,348,456; Aug. 3; v. 277; p. 64.
Stevenson, Joseph W., Baltimore, Md. Trap. No. 1,347,130; July 20; v. 276; p. 476.
Stevenson, Joseph W., Baltimore, Md. Animal-trap. No. 1,354,584; Oct. 5; v. 279; p. 27.
Stevenson, Levi, Deer River, Minn. Clothes-rack. No. 1,344,660; June 29; v. 275; p. 845.
Stevenson Mfg. Co. (See Stevenson, Charles M., assignor.)
Stevenson, Peter G., assignor of three-tenths to F. J. Mulgrave, Philadelphia, Pa., and three-tenths to J. J. Bolton, New York, N. Y. Railway-crossing. No. 1,359,929; Nov. 23; v. 280; p. 684.
Stevenson, Turen B., McRae, Ga. Boll-weevil trap. No. 1,331,946; Feb. 24; v. 271; p. 608.
Stevenson, William G., Chicago, Ill. Car-loading device. No. 1,340,574; May 18; v. 274; p. 494.
Stevenson, William G., Chicago, Ill. Grinding-mill. No. 1,345,714; July 6; v. 276; p. 76.
Stevenson, William G., Chicago, Ill. Crushing-machine. No. 1,345,715; July 6; v. 276; p. 76.
Stevenson, William H., Jr., Pittsburgh, Pa. Container for fragile articles. No. 1,362,364; Dec. 14; v. 281; p. 322.
Steward, Archie L., Chicago, Ill. Strainer for vacuum gasolene systems. No. 1,328,853; Jan. 27; v. 270; p. 497.
Steward Davit & Equipment Corporation. (See Hills, Harry B., assignor.)
Steward Davit & Equipment Corporation. (See Steward, Robert B., assignor.)
Steward, Robert B., Maplewood, N. J., assignor to Steward Davit & Equipment Corporation, New York, N. Y. Ship's davit. No. 1,332,366; Mar. 2; v. 272; p. 37.
Stewart, Alexander, Clintonville, Wis. Selective speed-transmission mechanism. No. 1,328,062; Jan. 13; v. 270; p. 282.
Stewart, Alexander W., Glasgow, Scotland. System of ventilation. No. 1,327,120; Jan. 6; v. 270; p. 45.
Stewart, Arthur L. (See Gleason, J. E. and Stewart.)
Stewart, Arthur L. (See Gleason, J. E., Stewart, and Head.)
Stewart, Benjamin, Des Moines, Iowa. Mitten. No. 1,355,181; Oct. 12; v. 279; p. 198.
Stewart, Charles C. (See Davis, L. W., and Stewart.)
Stewart, Charles C., Dodge City, Kans. Rotary road-grader. No. 1,334,001; Mar. 16; v. 272; p. 458.
Stewart, Charles M., Portsmouth, Ohio. Sash-weight. No. 1,345,274; June 29; v. 275; p. 962.
Stewart, Clarence R., Spokane, Wash. Game apparatus. No. 1,348,597; Aug. 3; v. 277; p. 91.

Digitized by Google

Stewart, Claude W., Martinsburg, W. Va. Vacuum-cleaner. No. 1,336,760; Apr. 13; v. 273; p. 260.
Stewart, David A., *et al.* (See Mowbray, James W., assignor.)
Stewart, David S., assignor to Antigo Tractor Co., Antigo, Wis. Four-wheel drive-tractor. No. 1,332,579; Mar. 2; v. 272; p. 78.
Stewart, Edward, Minneapolis, Minn. Silo. No. 1,360,461; Nov. 30; v. 280; p. 857.
Stewart, Edward A., Dayton, Ohio. Rotary engine. No. 1,332,367; Mar. 2; v. 272; p. 37.
Stewart, Edwards S., *et al.* (See Stoltz, Otto W., assignor.)
Stewart, Edwin F., Hopewell, N. J. Feeder for boiler compounds. No. 1,335,802; Apr. 6; v. 273; p. 19.
Stewart, Edwin L., Huntington, W. Va. Drinking attachment for bottles. No. 1,341,826; June 1; v. 275; p. 42
Stewart, Elliot, Brooklyn, N. Y. Practice-keyboard for typewriting. No. 1,331,728; Feb. 24; v. 271; p. 566.
Stewart, Emery A., Sioux City, Iowa. Railway-switch lock. No. 1,333,784; Mar. 16; v. 272; p. 417.
Stewart, F. W., Mfg. Co. (See Stern, Adolf, assignor.)
Stewart, Francis S. (See Killinger, W. E., and Stewart.)
Stewart, Franklin W., Chicago, Ill. Roller-bearing. No. 1,350,680; Aug. 24; v. 277; p. 668.
Stewart, Frederick W., Beaver, Pa. Glass-pressing machine. No. 1,343,987; June 22; v. 275; p. 647.
Stewart, Frederick W., Beaver, assignor of one-half to Phoenix Glass Company, Pittsburgh, Pa. Glass-blowing apparatus. No. 1,335,533; Mar. 30; v. 272; p. 851.
Stewart, George A., Jr. (See Kelley, E. H., and Stewart, Jr.
Stewart, Gertrude F. (See Stewart, Perez M., assignor.)
Stewart, Henry W., El Paso, Tex. Automobile-top. No. 1,332,418; Mar. 2; v. 272; p. 47.
Stewart, Irving N., Philadelphia, Pa. Portable wardrobe No. 1,342,269; June 1; v. 275; p. 229.
Stewart, James A., assignor to Stewart Manufacturing Company, Oakland, Calif. Hood-fastener. No. 1,358,123; Nov. 9; v. 280; p. 238.
Stewart, James G., Minneapolis, Minn. Bundle-carrier attachment for binders. No. 1,340,088; May 11; v. 271; p. 345.
Stewart, James L., Bellingham, Wash. Feeder. No. 1,362,153; Dec. 14; v. 281; p. 281.
Stewart, John G., Colorado Springs, Colo. Grain-shocker. No. 1,358,683; Nov. 9; v. 280; p. 351.
Stewart, John H. (See Bailey, C. W., and Stewart.)
Stewart, John H. (See Scharffenberg, Jean H., assignor.)
Stewart, John S., Youngstown, Ohio. Hair-comb. No. 1,354,143; Sept. 28; v. 278; p. 617.
Stewart, Laurence E., assignor to Consolidated Machine Company, Bradford, Pa. Apparatus for drawing glass cylinders. No. 1,347,131; July 20; v. 276; p. 476.
Stewart, Lucius S., Idaho Springs, Colo., assignor of one-half to J. A. Pearce, Berkeley, Calif. Ore-sampler. No. 1,362,968; Dec. 21; v. 281; p. 491.
Stewart Manufacturing Company. (See Stewart, James A., assignor.)
Stewart, Paul, Brocksburg, Nebr. Horse-detacher. No. 1,354,067; Sept. 28; v. 278; p. 602.
Stewart, Perez M. (See Hubbard, Norman, assignor.)
Stewart, Perez M., Pasadena, assignor to G. F. Stewart, Los Angeles, Calif. Building construction. No. 1,360,812; Nov. 30; v. 280; p. 926.
Stewart, Perez M., assignor to G. F. Stewart, New York, N. Y. Reinforced building construction. No. 1,360,979; Nov. 30; v. 280; p. 958.
Stewart, Richard M., Chicago, Ill. Can-opener. No. 1,348,760; Aug. 3; v. 277; p. 121.
Stewart, Roy C., Portland, Oreg. Spoon and spinner book. No. 1,339,231; May 4; v. 274; p. 108.
Stewart, Sylvester N., Dayton, Ohio. Combination railway-car and unicycle and coupling means therefor. No. 1,342,137; June 1; v. 275; p. 103.
Stewart, Sylvester N., Dayton, Ohio. Composite railway car. No. 1,351,072; Sept. 7; v. 278; p. 52.
Stewart, Thomas H., Atlanta, Ga., assignor to American Can Company, New York, N. Y. Label for bale-ties. No. 1,328,019; Jan. 13; v. 270; p. 274.
Stewart, Thomas W., Kalamazoo, Mich. Game-board. No. 1,336,169; Apr. 6; v. 273; p. 88.
Stewart-Warner Speedometer Corporation. (See Burton, Charles S., assignor.)
Stewart-Warner Speedometer Corporation. (See De Correvont, Howard P., assignor.)
Stewart-Warner Speedometer Corporation. (See Genn, John F., assignor.)
Stewart-Warner Speedometer Corporation. (See Hjorth, Oscar B., assignor.)
Stewart-Warner Speedometer Corporation. (See Muzzy, William H., assignor.)
Stewart-Warner Speedometer Corporation. (See Van Guilder, Walter, assignor.)
Stewart-Warner Speedometer Corporation. (See Whittington, Frederick G., assignor.)
Stewart, William C., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole-pressing machine. No. 1,327,179; Jan. 6; v. 270; p. 56.
Stewart, William C., Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. No. 1,342,469; June 8; v. 275; p. 220.
Stewart, William C., Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Seam-pounding machine. No. 1,346,275; July 13; v. 276; p. 249.
Stewart, William C., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole-preparing machine. No. 1,349,740; Aug. 17; v. 277; p. 440.
Stewart, William C., Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sole-measuring machine. No. 1,358,794; Nov. 16; v. 280; p. 418.
Stewart, William H., Worcester, Mass. Furnace-door frame. No. 1,333,225; Mar. 9; v. 272; p. 251.
Stewart, William H., Boston, Mass. Sewer-cleaning apparatus. No. 1,344,249; June 22; v. 275; p. 698.
Stewart, William W., Leavenworth, Kans. Dispensing-machine. No. 1,347,416; July 20; v. 276; p. 533.
Stibbe, Godfrey, Leicester, England. Circular glove-knitting machine. No. 1,337,099; Apr. 13; v. 273; p. 325.
Stibbe, Godfrey, Leicester, England. Knitted glove and producing same. No. 1,346,516; July 13; v. 276; p. 296.
Stibbe, Godfrey, Leicester, England. Knitted glove and producing same. No. 1,346,517; July 13; v. 276; p. 296.
Stibbe, Godfrey, Leicester, England. Circular-knitting machine. No. 1,361,291; Dec. 7; v. 281; p. 62.
Stichler, Charles, assignor, to Strause Gas Iron Co., Philadelphia, Pa. Gas-fixture and fuel-hose therefor. No. 1,337,288; Apr. 20; v. 273; p. 435.
Stick, John E., and G. M. Hiatt, Albany, Ind. Holder for axle-spindles. No. 1,332,931; Mar. 9; v. 272; p. 196.
Stickley, Lloyd W., assignor to Oliver Chilled Plow Works, South Bend, Ind. Plow. No. 1,345,275; June 29; v. 275; p. 962.
Stickney, Burnham C. (See Thomas, E., and Stickney.)
Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined adding and typewriting machine. No. 1,339,796; May 11; v. 274; p. 290.
Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,349,015; Aug. 10; v. 277; p. 223.
Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,349,016; Aug. 10; v. 277; p. 223.
Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Printing-press. No. 1,349,861; Aug. 17; v. 277; p. 463.
Stickney, Burnham C., Elizabeth, N. J., and A. A. Johnson, assignors to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,350,681; Aug. 24; v. 277; p. 668.
Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,355,865; Oct. 19; v. 279; p. 371.
Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,356,177; Oct. 19; v. 279; p. 433.
Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,356,232; Oct. 19; v. 279; p. 444.
Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,356,893; Oct. 26; v. 279; p. 620.
Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,357,193; Oct. 26; v. 279; p. 678.
Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,357,194; Oct. 26; v. 279; p. 678.
Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. J. Typewriting-machine. No. 1,357,195; Oct. 26; v. 279; p. 678.
Stickney, Charles L., Kingman, Ariz. Belt-tightener. No. 1,338,405; Apr. 27; v. 273; p. 715.
Stickrath, Daniel C., Omaha, Nebr. Direction-indicator for vehicles. No. 1,332,236; Mar. 2; v. 272; p. 11.
Stidel, John, *et al.* (See Loyd, Clarence E., assignor.)
Stiefel, Herman, *et al.* (See Hachmann, Frederick, assignor.)
Stiegelmeyer, John E., Indianapolis, Ind. Automatic control for steam and electric railways. No. 1,362,445; Dec. 14; v. 281; p. 338.
Stifel, Herman C., *et al.* (See Hachmann, F., and Wilson, assignors.)
Stifel, Herman C., *et al.* (See Hachmann, Frederick, assignor.)
Stifel, J. L., & Sons. (See Sharp, Samuel J., assignor.)
Stiles, Charles L., Columbus, Ohio. Feed-gage for printing-presses. (Reissue.) No. 14,963; Oct. 19; v. 279; p. 498.
Stiles, Dewey E., Los Angeles, Calif. Film-retouching holder. No. 1,352,037; Sept. 7; v. 278; p. 63.
Stiles, Frank I., Cocoanut Grove, Fla. Toilet for automobiles. No. 1,359,544; Nov. 23; v. 280; p. 608.
Stiles-Gilliland Manufacturing Company. (See Raff, Ernest G., assignor.)

Digitized by Google

Stiles, Henry E., and A. H. F. Perl, Chiswick, London, England. Coin-freed electric illuminating apparatus. No. 1,331,036; Feb. 17; v. 271; p. 418.
Stiles, Luster, Jr., Evansville, Ind. Oil-atomizer. No. 1,350,391; Aug. 24; v. 277; p. 611.
Still, Carl, Recklinghausen, and C. Wessel, Borbeck, near Essen, Germany; said Wessel assignor to said Still. Coke-oven plant. No. 1,340,990; May 25; v. 274; p. 644.
Still, Peter H., assignor of one-half to A. S. Brown, Omaha, Nebr. Emergency-tire. No. 1,356,414; Oct. 19; v. 279; p. 479.
Stillman, Frederick O. (See Hayward, C. R. Stillman, and Schleicher.)
Stillman, Harry B., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Electric switch. No. 1,354,784; Oct. 5; v. 279; p. 67.
Stillman, Herbert L., Westerly, R. I. Joint-support for light railways. No. 1,341,446; May 25; v. 274; p. 733.
Stillwaggon, John H., Richmond Hill, N. Y. Fire-hose support. No. 1,344,736; June 29; v. 275; p. 859.
Stillwell, Lewis B., *et al.* (See Brinckerhoff, Francis M., assignor.)
Stillwell, Wendell W., Mount Vernon, Ohio. Bolt and nut lock. No. 1,358,795; Nov. 16; v. 280; p. 418.
Stimatze, John B., St. John, Kans. Rail-lifter. No. 1,351,705; Aug. 31; v. 277; p. 931.
Stimpson, Edward S., assignor to Draper Corporation, Hopedale, Mass. Feeler-motion for looms. No. 1,327,069; Jan. 6; v. 270; p. 86.
Stimpson, Edward S., assignor to Draper Corporation, Hopedale, Mass. Feeler-motion for looms. No. 1,327,070; Jan. 6; v. 270; p. 86.
Stimpson, Edward S., assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,327,788; Jan. 13; v. 270; p. 231.
Stimpson, Edward S., assignor to Draper Corporation, Hopedale, Mass. Feeler-motion for looms. No. 1,328,907; Jan. 27; v. 270; p. 508.
Stimpson, Edward S., assignor to Draper Corporation, Hopedale, Mass. Feeler-motion for looms. No. 1,328,908; Jan. 27; v. 270; p. 508.
Stimpson, Edward S., assignor to Draper Corporation, Hopedale, Mass. Feeler with concave teeth. No. 1,329,328; Jan. 27; v. 270; p. 585.
Stimpson, Edward S., assignor to Draper Corporation, Hopedale, Mass. Feeler-motion for looms. No. 1,331,827; Feb. 24; v. 271; p. 586.
Stimpson, Edward S., assignor to Draper Corporation, Hopedale, Mass. Feeler with teeth in an arc. No. 1,332,774; Mar. 2; v. 272; p. 114.
Stimpson, Edward S., assignor to Draper Corporation, Hopedale, Mass. Loom-shuttle. No. 1,334,683; Mar. 23; v. 272; p. 631.
Stimpson, Edward S., assignor to Draper Corporation, Hopedale, Mass. Thread-cutting temple for looms. No. 1,344,065; June 22; v. 275; p. 663.
Stimpson, Edward S., assignor to Draper Corporation, Hopedale, Mass. Shuttle for side-motion-feeler looms. No. 1,344,066; June 22; v. 275; p. 663.
Stimpson, Edwin B., Brooklyn, N. Y. Cartridge-belt. No. 1,329,346; Jan. 27; v. 270; p. 589.
Stimpson, Fred T., *et al.* (See Stimpson, Gordon G., assignor.)
Stimpson, Gordon G., assignor to F. H. Granade and F. T. Stimpson, Birmingham, Ala. Combined portable shower and vapor bath. No. 1,341,485; May 25; v. 274; p. 741.
Stimson, Arthur J., Spokane, Wash. Internal-combustion engine. No. 1,335,134; Mar. 30; v. 272; p. 778.
Stinchfield, Charles E. (See Bryant and Stinchfield.)
Stine, George R., Los Angeles, Calif. Folding furniture. No. 1,351,013; Aug. 24; v. 277; p. 731.
Stine, Isaac D., assignor of one-half to F. Hayes, Waterbury, Conn. Lock for anchor-sockets for screws. No. 1,333,880; Mar. 16; v. 272; p. 484.
Stine, Isaac D., assignor of one-half to F. Hayes, Waterbury, Conn. Driving-tool for anchor-sockets for screws. No. 1,333,881; Mar. 16; v. 272; p. 435.
Stine, Marcus. (See Craig, Alvin M., assignor.)
Stinemetts, Henry, Calgary, Alberta, Canada. Tire-rim. No. 1,327,180; Jan. 6; v. 270; p. 56.
Stinson, Charles H., Superior, Wis., assignor to Stinson Tractor Company. Dust-collector for carbureters. No. 1,339,609; May 11; v. 274; p. 255.
Stinson, Lewis K. (See Robinson, H. G., and Stinson.)
Stinson Tractor Company. (See Stinson, Charles H., assignor.)
Stipes, Reuben B., and J. De Frain, Flint, Mich. Hold-down appliance. No. 1,346,387; July 13; v. 276; p. 270.
Stirling, Charles P., assignor to Cott-a-lap Co., Somerville, N. J. Machine for graining lithographic cylinders. No. 1,328,603; Jan. 20; v. 270; p. 422.
Stirling, Clarence C., Hartford, Conn. Electric switch. No. 1,360,047; Nov. 23; v. 280; p. 708.
Stirling, Clarence C., assignor to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Electric switch. No. 1,327,640; Jan. 13; v. 270; p. 203.
Stirling, Clarence C., assignor to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Electric switch. No. 1,335,135; Mar. 30; v. 272; p. 778.
Stirling Machine and Wire Works, Beneficial Trust Association. (See McPhail, Archibald, assignor.)
Stirling, Robert, Dormans Park, England. Air-lift pump. No. 1,361,196; Dec. 7; v. 281; p. 43.
Stirling, Robert, Jr., East Chicago, Ind. Filling-nipple and accessory lock. No. 1,361,922; Dec. 14; v. 281; p. 285.
Stites, Townsend, and E. L. Knoedler, assignors to Welsbach Company, Gloucester City, N. J. Gas-lighting device. No. 1,327,447; Jan. 6; v. 270; p. 105.
Stitt, Orlando, Toledo, Ill. Safety-drive for harvester-reels. No. 1,350,043; Aug. 17; v. 277; p. 497.
Stitzer, George W., Mahanoy City, Pa. Clothespin. No. 1,330,147; Feb. 10; v. 271; p. 182.
Stitzer, William E., Muskogee, Okla. Attachment for internal-combustion engines. No. 1,351,706; Aug. 31; v. 277; p. 931.
Stobs, Thomas, and W. Lightell, Maywood, Ill. Signaling-lamp for motor-vehicles. No. 1,350,682; Aug. 24; v. 277; p. 668.
Stobwasser, Hermann. (See Bartmann, Ludwig, assignor.)
Stock, Guy J., Bradford, England. Production of iron in an electric furnace. No. 1,338,881; May 4; v. 274; p. 43.
Stock, Guy J., assignor to H. H. Blackburn, Bradford, England. Manufacture of iron. No. 1,333,824; Mar. 16; v. 272; p. 424.
Stock, Harry A., Steelton, Pa. Filter. No. 1,358,595; Nov. 9; v. 280; p. 332.
Stock, John J., New York, N. Y., assignor of one-half to J. J. Jones, Orlando, Fla. Amusement device. No. 1,339,299; May 4; v. 274; p. 119.
Stock, Julius A., Cicero, assignor to W. C. Ritchie & Company, Chicago, Ill. Thumb-hole-cutting appliance. No. 1,360,048; Nov. 23; v. 280; p. 708.
Stock Motorpflug Gesellschaft mit Beschrankter Haftung. (See Gleiche, Carl, assignor.)
Stock, Nicholas, Kingston, N. Y. Chair-tip. No. 1,356,797; Oct. 26; v. 279; p. 601.
Stock, Nicholas, Kingston, N. Y. Chair-tip. No. 1,356,798; Oct. 26; v. 279; p. 601.
Stock Quotation Telegraph Company. (See Hiltz, George S., assignor.)
Stockbridge, David F., Oklahoma, Okla. Fireproof floor and ceiling construction. No. 1,358,999; Nov. 16; v. 280; p. 458.
Stockdale, Dorsey M., Carmichaels, Pa. Hatpin. No. 1,350,945; Aug. 24; v. 277; p. 718.
Stockdale, Dorsey M., Ellenboro, W. Va. Reel. No. 1,350,946; Aug. 24; v. 277; p. 718.
Stocker, William H., Philadelphia, Pa. Wicker-panel. No. 1,349,477; Aug. 10; v. 277; p. 314.
Stocking, Bert A., Boone, Iowa. Demountable rim. No. 1,338,110; Apr. 27; v. 273; p. 660.
Stocking, Edgar B., deceased, Washington, D. C.; S. C. Stocking, executrix. Material-actuated release for clothes-wringers. No. 1,342,004; June 1; v. 275; p. 76.
Stocking, Edgar B., deceased, Washington, D. C.; S. C. Stocking, executrix. Material-actuated release for clothes-wringers. No. 1,342,005; June 1; v. 275; p. 76.
Stocking, George, San Francisco, Calif. Hair-clipping device. No. 1,336,662; Apr. 13; v. 273; p. 240.
Stocking, Sarah C., executrix. (See Stocking, Edgar B.)
Stockman, George H., Jr., Philadelphia, Pa. Tea-brewing appliance. No. 1,362,054; Dec. 14; v. 281; p. 262.
Stockstrom, Arthur, assignor to American Stove Company, St. Louis, Mo. Oil-stove. No. 1,332,775; Mar. 2; v. 272; p. 115.
Stockton, Lincoln C., and C. F. Goddard, assignors to The Metal Separation Company, Denver, Colo. Apparatus for saving metallic values. No. 1,327,885; Jan. 13; v. 270; p. 249.
Stockton, Thomas J., Burke, Va. Adjustable feeding and watering trough. No. 1,356,233; Oct. 19; v. 279; p. 444.
Stockwell, Millard E., Monrovia, Calif. Internal-combustion engine. No. 1,342,723; June 8; v. 275; p. 270.
Stockwell, Millard E., Monrovia, Calif. Tractor. No. 1,347,468; July 20; v. 276; p. 543.
Stockwell, Ivan A., Norwalk, Ohio, assignor to The Norwalk Auto Parts Company, a Corporation of Ohio. Flexible coupling. No. 1,362,646; Dec. 21; v. 281; p. 429.
Stoddard, Charles F., assignor to American Piano Company, New York, N. Y. Automatic musical instrument. No. 1,360,049; Nov. 23; v. 280; p. 708.
Stoddard, Enoch V., Rochester, N. Y. Bomb-dropping mechanism. No. 1,345,276; June 29; v. 275; p. 963.
Stoddard, John G., Swetnam, Va., assignor of fifty-one one-hundredths to A. W. Dailey, Philadelphia, Pa. Mullion-strip for metallic window-sash. No. 1,335,301; Mar. 30; v. 272; p. 808.
Stodder, William M., Hingham, Mass. Knife. No. 1,359,448; Nov. 16; v. 280; p. 544.
Stoeckig, August C., Turtle Lake, Wis. Ignition system for automobiles. No. 1,360,696; Nov. 30; v. 280; p. 903.
Stoehr, Rolla G. (See Weaver, I. A., and Stoehr.)
Stoekle, Erwin R., New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electrolonic valve. No. 1,340,575; May 18; v. 274; p. 495.
Stoekle, Erwin R., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Means for regulating alternating currents. No. 1,360,462; Nov. 30; v. 280; p. 857.
Stoekle, Erwin R., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric regulator. No. 1,361,197; Dec. 7; v. 281; p. 43.

Digitized by Google

Stoekle, Erwin R., assignor to Western Electric Company, Incorporated, New York, N. Y. Vacuum-tube device. No. 1,353,976; Sept. 28; v. 278; p. 583.
Stoelzel, Paul, Adams, Mass. Copy-book holder. No. 1,343,527; June 15; v. 275; p. 491.
Stoeser, Walter G., Seattle, Wash., assignor of one-half to A. Wetstein, Portland, Oreg. Fuse-plug. No. 1,344,859; June 22; v. 275; p. 720.
Stoffer, Frank C., and P. Yost, Minneapolis, Minn. Steering mechanism for automobiles. No. 1,355,517; Oct. 12; v. 279; p. 264.
Stogoff, Peter E., New York, N. Y. Submarine radio-system. No. 1,343,165; June 8; v. 275; p. 358.
Stohn, Arthur G., Jersey City, N. J., and T. Howard, New York, N. Y. Circuit-closer for vehicle-signals. No. 1,331,684; Feb. 24; v. 271; p. 558.
Stoke, Josiah W., Peniel, Tex. Tool-holding implement. No. 1,339,725; May 11; v. 274; p. 277.
Stoker, Henry L., New York, N. Y. Dog-muzzle. No. 1,351,140; Aug. 31; v. 277; p. 819.
Stoker, King E., Stockton, Calif. Direction-signal for motor-vehicles. No. 1,359,286; Nov. 16; v. 280; p. 511.
Stokes, Charles L., Millong, via Young, New South Wales, Australia. Carbureter. No. 1,353,288; Sept. 21; v. 278; p. 402.
Stokes, Douglas H., Cremorne, near Sydney, New South Wales, Australia. Refrigerating apparatus. No. 1,362,757; Dec. 21; v. 281; p. 451.
Stokes, Frederick W. S., London, England, assignor to W. S. Peirce, trustee, acting chief of ordnance, U. S. Army. Ordnance. No. 1,334,413; Mar. 23; v. 272; p. 582.
Stokes, Frederick W. S., Westminster, London, England, assignor to W. S. Peirce, trustee, acting chief of ordnance. Ordnance. No. 1,334,414; Mar. 23; v. 272; p. 582.
Stokes, Fremont, Clarksville, Ark. Connecting-rod for internal-combustion engines. No. 1,331,881; Feb. 24; v. 271; p. 596.
Stokes, Fremont, Clarksville, Ark. Internal-combustion engine. No. 1,347,919; July 27; v. 276; p. 690.
Stokes, Fremont, Little Rock, Ark. Internal-combustion engine. No. 1,353,289; Sept. 21; v. 278; p. 402.
Stokes, J. Stogdell. (See Novotny, Emil E., assignor.)
Stokes, John C., Shreveport, La. Drill. No. 1,360,328; Nov. 30; v. 280; p. 831.
Stokes, John S., Moorestown, N. J., assignor to Stokes & Smith Company, Philadelphia, Pa. Air or moisture proof package. No. 1,343,235; June 15; v. 275; p. 435.
Stokes, John S., Moorestown, N. J., assignor to Stokes & Smith Company, Philadelphia, Pa. Production of boxes. No. 1,355,924; Oct. 19; v. 279; p. 382.
Stokes, Jos., Rubber Company. (See Boyer, Harry L., assignor.)
Stokes, Joseph, Rubber Company. (See Boyer, Harry L., assignor.)
Stokes, Reuben C., and J. C. Conrad, Cement, Okla. Reducing-valve. No. 1,349,443; Aug. 10; v. 277; p. 308.
Stokes, Robert J., Trenton, assignor to Thermoid Rubber Company, Hamilton township, N. J. Disk for flexible couplings and making same. No. 1,346,612; July 13; v. 276; p. 315.
Stokes, Russell C., Portland, Oreg. Sand-mixing machine. No. 1,337,373; Apr. 20; v. 273; p. 451.
Stokes, Samuel L., and T. J. Wyatt, Casper, Wyo. Gasolene-feed. No. 1,341,393; May 25; v. 274; p. 723.
Stokes, Samuel J., Kansas City, Mo. Horseshoeing-machine. No. 1,331,594; Feb. 24; v. 271; p. 541.
Stokes, Samuel J., Kansas City, Mo. Hoof-trimming machine. No. 1,337,571; Apr. 20; v. 273; p. 488.
Stokes & Smith Company. (See Buswell, Walter, assignor.)
Stokes, & Smith Company. (See Morrison, Alfred J., assignor.)
Stokes & Smith Company. (See Reifsnyder, James D., assignor.)
Stokes & Smith Company. (See Reifsnyder, J. D., and Weightman, assignors.)
Stokes & Smith Company. (See Stokes, John S., assignor.)
Stokes and Smith Company. (See Streeper, William H., assignor.)
Stokes & Smith Company. (See Weightman, W. A., and Nitsch, assignors.)
Stokke, Iver, Sioux Falls, S. D. Compression-air-valve diaphragm. No. 1,353,290; Sept. 21; v. 278; p. 402.
Stoklosa, Frank, Chicago, Ill. Flying-machine. No. 1,334,972; Mar. 30; v. 272; p. 747.
Stoklosa, Frank, Chicago, Ill. Pump. No. 1,346,989; July 20; v. 276; p. 449.
Stoler, Edward W., and H. Trease, Mansfield, Ohio. Sanitary bedpan. No. 1,346,388; July 13; v. 276; p. 271.
Stoll, Frank M., Denver, Colo. Collapsible bed. No. 1,327,886; Jan. 13; v. 270; p. 249.
Stoll, Frank M., Denver, Colo. Tent-bed. No. 1,327,887; Jan. 13; v. 270; p. 249.
Stolle, Georg P. E., Kiel, Germany. Producing artificial respiration. No. 1,358,893; Nov. 16; v. 280; p. 438
Stoll, Henry C., New York, N. Y. Internal-combustion engine. No. 1,361,114; Dec. 7; v. 281; p. 27.
Stoll, Hugh S., assignor to McLoughlin Brothers, Inc., New York, N. Y. Game. No. 1,329,812; Feb. 3; v. 271; p. 87.
Stoll, Sherm G. (See Costelloe, C., and Stoll.)
Stolle, Georg. (See Gall, F., and Stolle.)
Stolle, Georg, Kiel, Germany. Device for changing regenerating-cartridges of breathing apparatus. No. 1,337,026; Apr. 13; v. 273; p. 311.
Stolle, Georg P. E., Kiel, Germany. Producing artificial respiration. No. 1,343,486; June 15; v. 275; p. 488.
Stoller, Hugh M., assignor to Western Electric Company, Incorporated, New York, N. Y. Magnetic gearing. No. 1,337,732; Apr. 20; v. 273; p. 519.
Stolp Company. (See Stolp, Frank H., assignor.)
Stolp, Frank H., Geneva, N. Y. Machine for forming metal tubes. No. 1,327,461; Jan. 13; v. 270; p. 203.
Stolp, Frank H., assignor to Stolp Company, Incorporated, Geneva, N. Y. Tubular radiator. No. 1,358,796; Nov. 16; v. 280; p. 418.
Stolpe, Frederick J. (See Klasing, Augustus F., assignor.)
Stolpe, William H. (See Burton, G. K., and Stolpe.)
Stoltman, John A., Minto, N. D. Printing-machine. No. 1,348,330; Aug. 3; v. 277; p. 40.
Stoltman, John A., Minto, N. D. Coupling for air-brake pipes. No. 1,363,287; Dec. 28; v. 281; p. 594.
Stoltz, Edmund G., Granite City, Ill. Closet flush-valve. No. 1,335,763; Apr. 6; v. 273; p. 11.
Stoltz, Otto W., assignor of six-eighths to G. W. Kohler, R. Conway, W. Ferguson, E. S. Stewart, and E. A. Wright, Mission, and J. E. Hodgin, McAllen, Tex. Auxiliary clutch-pedal lever. No. 1,362,758; Dec. 21; v. 281; p. 451.
Stoltz, William J., St. Louis, Mo. Vehicle-tire. No. 1,338,595; Apr. 27; v. 273; p. 751.
Stolzenburg, Christian C., Elyria, Ohio. Cushion-heel. No. 1,343,528; June 15; v. 275; p. 492.
Stolzenwald, Frederick, assignor of one-half to A. Wissel, San Francisco, Calif. Electric socket and lamp-protector. No. 1,336,761; Apr. 13; v. 273; p. 260.
Stone, Albert, Seattle, Wash. Condiment-holder. No. 1,350,120; Aug. 17; v. 277; p. 512.
Stone, Albert G., Rustburg, Va. Gathering-shears. No. 1,334,816; Mar. 23; v. 272; p. 657.
Stone, Andrew H., Kansas City, Mo. Combined library and dining table. No. 1,334,415; Mar. 23; v. 272; p. 582.
Stone, Andrew H., Kansas City, Mo. Extension-table. No. 1,346,276; July 13; v. 276; p. 249.
Stone, Arthur S., Brooklyn, N. Y. Removable bridge for dental work. No. 1,340,089; May 11; v. 274; p. 345.
Stone, Ben M., Chicago, Ill. Lock. No. 1,328,106; Jan. 13; v. 270; p. 291.
Stone, Cecil, Newark, N. J., assignor to Westinghouse Electric and Manufacturing Company. Jewel-grinding machine. No. 1,338,406; Apr. 27; v. 273; p. 716.
Stone, Charles E., Boston, Mass. Check. No. 1,331,947; Feb. 24; v. 271; p. 608.
Stone, Charles E., Boston, Mass. Pencil-sharpener. No. 1,341,943; June 1; v. 275; p. 65.
Stone, Charles M., assignor of one-half to W. M. Putnam, Lewiston, Me. Picker-stick friction-bunter. No. 1,341,394; May 25; v. 274; p. 723.
Stone, Charles M., assignor to Crompton & Knowles Loom Works, Lewiston, Me. Warp stop-motion. No. 1,352,558; Sept. 14; v. 278; p. 199.
Stone, Charles W., and H. M. Hobart, Schenectady, N. Y., assignors to General Electric Company. Electricity transforming and converting apparatus. No. 1,337,100; Apr. 13; v. 273; p. 325.
Stone, Claude C., *et al.* (See Crays, Oscar M., assignor.)
Stone, Edward L. (See Bates, W. B., and Stone.)
Stone, Elmer B., assignor to The American Hardware Corporation, New Britain, Conn. Conveying and discharging apparatus. No. 1,342,075; June 8; v. 275; p. 320.
Stone, Elmer B., assignor to The American Hardware Corporation, New Britain, Conn. Lock. No. 1,363,486; Dec. 28; v. 281; p. 632.
Stone, Elmer B., and C. E. Johnson, assignors to The American Hardware Corporation, New Britain, Conn. Door and lock therefor. No. 1,362,514; Dec. 14; v. 281; p. 351.
Stone, Elmer B., and C. E. Johnson, assignors to The American Hardware Corporation, New Britain, Conn. Door and lock therefor. No. 1,362,647; Dec. 21; v. 281; p. 429.
Stone, Ernest V., Los Angeles, Calif. Apparatus for distilling mineral oil. No. 1,351,266; Aug. 31; v. 277; p. 844.
Stone, Frank N. (See Newton, Charles, assignor.)
Stone, Frank P., Chicago, Ill. Vehicle. No. 1,355,925; Oct. 19; v. 279; p. 382.
Stone, Fred L., Schenectady, N. Y., assignor to General Electric Company. Electromagnetic switch. No. 1,331,882; Feb. 24; v. 271; p. 596.
Stone, Fred L., Schenectady, N. Y., assignor to General Electric Company. Electric hoists. No. 1,347,303; July 20; v. 276; p. 511.
Stone, Guy B., Detroit, Mich., assignor to Remy Electric Company, Anderson, Ind. Ignition-controller. No. 1,338,336; Apr. 27; v. 273; p. 703.
Stone, Guy B., Detroit, Mich., assignor to Remy Electric Company, Anderson, Ind. Speed-controlling system. No. 1,362,546; Dec. 14; v. 281; p. 358.
Stone, Harry A., *et al.*, trustees. (See Jones, Walter J., assignor.)
Stone, Harry W. (See Drane, M., and Stone.)
Stone, J., & Company. (See Rohman, Harry D., assignor.)

Digitized by Google

Alphabetical list of patentees—Continued.

Stone, John. (See Barnhill, E. B., and Stone.)
Stone, John A., Derry, N. H., assignor to I. L. Keith, Haverhill, Mass. Press-board for stacks of soles. No. 1,348,521; Aug. 3; v. 277; p. 75.
Stone, Lloyd B., Tacoma, assignor to Star Device Manufacturing Company, King county, Wash. Impulse pressure-gage. No. 1,336,104; Apr. 6; v. 273; p. 76.
Stone, Lloyd B., Tacoma, assignor to Star Device Manufacturing Company, King county, Wash. Switch-lock. No. 1,351,973; Sept. 7; v. 278; p. 52.
Stone, Melvin L., Lawrence, Mass., assignor to Draper Corporation, Hopedale, Mass. Loom. No. 1,345,900; July 6; v. 276; p. 113.
Stone, Melvin L., Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler-loom. No. 1,350,121; Aug. 17; v. 277; p. 512.
Stone, Melvin L., Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,362,119; Dec. 14; v. 281; p. 275.
Stone, Melvin L., Lawrence, assignor to Draper Corporation, Hopedale, Mass. Filling-catcher for looms. No. 1,362,120; Dec. 14; v. 281; p. 275.
Stone, Melvin L., Lawrence, assignor to Draper Corporation, Hopedale, Mass. Filling-end controller for looms. No. 1,362,121; Dec. 14; v. 281; p. 275.
Stone, Nathan M., Chicago, Ill. Dental lamp. No. 1,352,995; Sept. 14; v. 278; p. 286.
Stone, Robert L. (See Ramsey, Joseph A., assignor.)
Stone, Samuel M., Chicago, Ill. Leaf-spring shackle. No. 1,336,446; Apr. 13; v. 273; p. 200.
Stone, Stewart, Butler, Pa. Pipe-grip. No. 1,339,233; May 4; v. 274; p. 108.
Stone, Thomas W., assignor to Western Gas Construction Company, Fort Wayne, Ind. Valve-control mechanism. No. 1,353,977; Sept. 28; v. 278; p. 583.
Stone, William, New York, N. Y. Purse. No. 1,350,980; Aug. 24; v. 277; p. 725.
Stone, William P., *et al.* (See Young, James E., assignor.)
Stonebraker, Harold E., Brooklyn, N. Y. Friction-gearing for motor-vehicles. No. 1,828,346; Jan. 20; v. 270; p. 373.
Stonebreaker, Joseph, McGill, Nev. Sampler. No. 1,333,191; Mar. 9; v. 272; p. 244.
Stonehouse, James W., Denver Colo. Sign. No. 1,348,065; July 27; v. 276; p. 719.
Stoneman, Lucy A., Columbia, Va. Screen. No. 1,333,518; Mar. 9; v. 272; p. 305.
Stoner, Frank H., assignor to Wilder-Strong Implement Company, Monroe, Mich. Land-roller. No. 1,345,515; July 6; v. 276; p. 37.
Stoner, George M. (See Mattern, J. F., and Stoner.)
Stoner, Winifred S., assignor to Newark Paraffine & Parchment Paper Co., New York, N. Y. Candy-wrapper. No. 1,345,761; Aug. 3; v. 277; p. 121.
Stonestreet, Arthur W., Pasadena, Calif. Automatic pneumatic, pneumatic-tire-inflating mechanism. No. 1,338,337; Apr. 27; v. 273; p. 703.
Stoney, Casimir, Montreal, Quebec, Canada. Automatic floor-scrubbing machine. No. 1,333,226; Mar. 9; v. 272; p. 251.
Stoney, John T., Cleveland, Ohio. Molding-machine. No. 1,343,940; June 20; v. 275; p. 639.
Stoney, John T., Cleveland, Ohio. Making molds. No. 1,343,941; June 22; v. 275; p. 639.
Stoney, John T., Cleveland, Ohio. Making molds with greensand cores. No. 1,344,737; June 29; v. 275; p. 859.
Stoodt, Delvin, Mansfield, Ohio. Rake-cleaning attachment. No. 1,354,352; Sept. 28; v. 278; p. 660.
Stookey, Walter J., Vallejo, Calif. Combination garment. No. 1,360,813; Nov. 30; v. 280; p. 926.
Stoop, William J., Wheeling, W. Va. Apparatus for handling metal plates and sheets. No. 1,330,099; Feb. 10; v. 271; p. 173.
Storer, Norman W., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,327,789; Jan. 13; v. 270; p. 231.
Storer, Norman W., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. No. 1,336,596; Apr. 13; v. 273; p. 228.
Storey, Henry L., Kerrville, Tex. Combination countersink and bit gage. No. 1,334,416; Mar. 23; v. 272; p. 582.
Storfold, John W. (See Martinusen, A., and Storfold.)
Storle, Ole O., Tacoma, Wash. Automatic stop for sound-reproducing machines. No. 1,339,559; Feb. 10; v. 271; p. 258.
Storle, Ole O., Tacoma, Wash. Automatic stop for sound-reproducing machines. No. 1,341,767; June 1; v. 275; p. 31.
Storle, Ole O., Tacoma, Wash. Machine-gun. No. 1,342,358; June 1; v. 275; p. 145.
Storm, Gustav F., Sanborn, Iowa. Ditch-filler. No. 1,352,155; Sept. 7; v. 278; p. 85.
Storm, Gustav F., Sanborn, Iowa. Eye-guard. No. 1,352,156; Sept. 7; v. 278; p. 85.
Storms, George W., Kalamazoo, Mich., assignor of one-half to A. H. Long, Crawfordsville, Ind. Collapsible culvert-form. No. 1,344,775; June 29; v. 275; p. 867.
Storms, John A., Newark, N. J. Spark-plug. No. 1,360,814; Nov. 30; v. 280; p. 926.
Storrer, Carl S., Winterthur, Switzerland. Pencil-sharpener. No. 1,362,055; Dec. 14; v. 281; p. 262.
Storrer, Hermann F., New York, N. Y., assignor to J. M. Voith Company, Inc. Pulp-refiner. No. 1,346,277; July 13; v. 276; p. 250.
Story, Elliott M., Braintree, Mass. Pneumatic tire. No. 1,336,663; Apr. 13; v. 273; p. 241.
Story, John T., New York, N. Y. Hair insole. No. 1,351,726; Aug. 31; v. 277; p. 934.
Storz, Charles R., Brooklyn, N. Y. Scissors. No. 1,339,797; May 11; v. 274; p. 290.
Stothoff, William S., and C. A. Psilander, assignors to William Wharton, Jr., & Co., Incorporated, Easton, Pa. Tractor-wheel. No. 1,352,635; Sept. 14; v. 278; p. 214.
Stott, Frederick R. L., and E. E. Shlerk, assignors of one-third to O. W. Haist, Hamilton, Ontario, Canada. Emergency-bumper for vehicles. No. 1,355,182; Oct. 12; v. 279; p. 198.
Stott, Oswald, Birmingham, and E. R. Jones, Stourbridge, England. Aeration of sewage and other impure liquids. No. 1,343,797; June 15; v. 275; p. 546.
Stott, Vernon H., and L. Schofield, Oldham, England. Water-heater. No. 1,356,415; Oct. 19; v. 279; p. 479.
Stottman, Herman J., Covington, Ky. Resilient support for tire-casings. No. 1,362,447; Dec. 14; v. 281; p. 338.
Stottmeister, Carl L., New York, N. Y. Evaporizer. No. 1,359,000; Nov. 16; v. 280; p. 458.
Stough, Turney G., Jeannette, Pa. Dispensing-receptacle. No. 1,332,476; Mar. 2; v. 272; p. 58.
Stough, Turney G., Jeannette, Pa. Machine-gun toy. No. 1,356,664; Oct. 26; v. 279; p. 575.
Stoughton Wagon Co. (See Johnson, Peter, assignor.)
Stourm, John P., New York, N. Y. Egg-holder. (Reissue.) No. 15,014; Dec. 21; v. 281; p. 539.
Stout, Abraham B., Plymouth, Ind. Wheeled scraper. No. 1,360,050; Nov. 23; v. 280; p. 708.
Stout, Elvin M., Nevis, Minn. Coupling. No. 1,336,823; Apr. 6; v. 273; p. 116.
Stout, George W., Merchantville, N. J. Package-tie. No. 1,358,475; Nov. 9; v. 280; p. 309.
Stout, George W., Merchantville, N. J. Package-tie. No. 1,358,476; Nov. 9; v. 280; p. 309.
Stout, George W., Merchantville, N. J. Package-tie. No. 1,358,477; Nov. 9; v. 280; p. 310.
Stout, Gerald B., Denver, Colo. Fencepost. No. 1,335,302; Mar. 30; v. 272; p. 809.
Stout, Lewis F., Lockport, N. Y. Steering-wheel for automobiles. No. 1,331,595; Feb. 24; v. 271; p. 542.
Stout, Oscar M., Brooklyn, N. Y. Chocolate-developing machinery. No. 1,349,235; Aug. 10; v. 277; p. 267.
Stoute, Arthur L. P., *et al.*, executors. (See Stoute, Richard A., assignor.)
Stoute, Richard A., deceased, Branksmere, Barbados, British West Indies; J. G. C. Ward and A. L. P. Stoute, executors. Wheel-spoke-repair means. No. 1,350,528; Aug. 24; v. 277; p. 639.
Stovall, Henry R., Tulsa, Okla. Tie-handling tongs. No. 1,337,101; Apr. 13; v. 273; p. 325.
Stovall, William M., Clallam Bay, Wash. Wrench. No. 1,361,923; Dec. 14; v. 281; p. 235.
Stover, Charley, Coats, Kans. Sash-hinge. No. 1,335,999; Apr. 6; v. 273; p. 56.
Stover, Paul A., Cleveland, Ohio. Automobile-signal. No. 1,346,567; July 13; v. 276; p. 307.
Stover, Willard L., Amarillo, Tex. Wrench. No. 1,337,102; Apr. 13; v. 273; p. 325.
Stowe, Floyd D., Wilmington, Del., assignor, by mesne assignments, to E. I. du Pont de Nemours and Company. Disk-feeder. No. 1,342,189; June 1; v. 275; p. 113.
Stowe, George B., Galveston, Tex. Automobile-engine hood and drain-trough therefor. No. 1,335,082; Mar. 30; v. 272; p. 768.
Stowe, John F., Lincoln, Nebr. Automatically-releasing clutch. No. 1,340,124; May 11; v. 274; p. 253.
Stowell, Edward R., Oden, Mich. Making a refractory plastic. No. 1,327,448; Jan. 6; v. 270; p. 105.
Stowell, Edward R., Portland, Ind., assignor to Stowell Fireproofing Company, Manistee, Mich. Making an insulating and protective coating. No. 1,350,343; Aug. 24; v. 277; p. 601.
Stowell, Edward R., assignor to H. L. Norris and H. A. Arbaugh, Portland, Ind. Plastic composition. No. 1,364,004; Dec. 28; v. 281; p. 732.
Stowell Fireproofing Company. (See Stowell, Edward R., assignor.)
Stowell, Lawrence H., Litchville, N. D. Snowplow. No. 1,328,973; Jan. 27; v. 270; p. 521.
Stoykovich, Josef. (See Krivosky, F., and Stoykovich.)
Strachan, George C., Detroit, Mich. Bathtub. No. 1,348,250; Aug. 3; v. 277; p. 24.
Strader, Virgil R., Philippi, W. Va. Suspenders. No. 1,356,944; Oct. 26; v. 279; p. 630.
Stradley, Leighton P., *et al.*, trustees. (See Jones, Walter J., assignor.)
Straessle, Anton, Zurich, Switzerland. Massaging-machine. No. 1,353,809; Sept. 21; v. 278; p. 505.
Strahan, Ida W., Montclair, N. J. Hair-curler. No. 1,328,771; Jan. 20; v. 270; p. 452.
Strahmann, John H. (See Strampe, A. H., and Strahmann.)
Straight, Halver R. (See Hague, A. G., and Straight.)
Straight, Halver R., Adel, Iowa. Apparatus for distilling oil-bearing shale. No. 1,330,014; Feb. 3; v. 271; p. 126.
Straight, Halver R., Adel, Iowa. Plastic-block-cutting machine. No. 1,332,693; Mar. 2; v. 272; p. 99.

Straight, Halver R., Adel, Iowa. **Drain-tile.** No. 1,351,878; Sept. 7; v. 278; p. 33.
Straight, Halver R., Adel, Iowa. **Bearing and making same.** No. 1,360,244; Nov. 23; v. 280; p. 747.
Straight, Halver R., Adel, Iowa. **Wall for brick-kilns.** No. 1,360,245; Nov. 23; v. 280; p. 747.
Straight, Halver R., Adel, Iowa. **Excavator.** No. 1,362,056; Dec. 14; v. 281; p. 262.
Strain, Charles M., Crawfordsville, Iowa. **Disk-sharpening machine.** No. 1,352,324; Sept. 7; v. 278; p. 117.
Strait, Hosea H., Overland, Mo. **Register-hook.** No. 1,330,454; Feb. 10; v. 271; p. 238.
Strait, William, Appleton, Wis., assignor to The Cleveland Tractor Company, Euclid, Ohio. **Traction-machine.** No. 1,353,617; Sept. 21; v. 278; p. 468.
Straith, John, Richmond, Va. **Infant-chair.** No. 1,337,103; Apr. 13; v. 273; p. 326.
Straith, John, Richmond, Va. **Clothes-drier.** No. 1,353,670; Sept. 21; v. 278; p. 479.
Straka, Jaroslav, Chicago, Ill. **Toy.** No. 1,351,450; Aug. 31; v. 277; p. 881.
Stramaglia, Nicola, Chicago, Ill. **Automatic train-stop.** No. 1,353,084; Sept. 14; v. 278; p. 303.
Strampe, Arthur H., and J. H. Strahmann, Paullina, Iowa. **Flytrap.** No. 1,359,930; Nov. 23; v. 280; p. 685.
Stranahan, Samuel A., Flint, Mich., assignor to General Motors Corporation, Detroit, Mich. **Gasolene-tank-filler cap.** No. 1,339,485; May 11; v. 274; p. 231.
Strand, Charles A., Chicago, Ill. **Tool-holder.** No. 1,361,198; Dec. 7; v. 281; p. 43.
Strand, David, assignor to R. W. Glasner, Chicago, Ill. **Die-cushion.** No. 1,354,785; Oct. 5; v. 279; p. 68.
Strand, Neil A., Brooklyn, N. Y. **Propeller mud-guard for aeroplanes.** No. 1,341,202; May 25; v. 274; p. 686.
Strand, William F., Des Moines, Iowa. **Ignition system for internal-combustion engines.** No. 1,336,933; Apr. 13; v. 273; p. 293.
Stranders, Julien, Brooklyn, assignor to H. B. Kruger, New York, N. Y. **Display device.** No. 1,332,694; Mar. 2; v. 272; p. 99.
Stranders, Julien, Brooklyn, assignor to H. B. Kruger, New York, N. Y. **Advertising display device.** No. 1,332,695; Mar. 2; v. 272; p. 99.
Stranders, Julien, Brooklyn, assignor to H. B. Kruger, New York, N. Y. **Display device.** No. 1,334,056; Mar. 16; v. 272; p. 468.
Stranders, Julien, Brooklyn, N. Y., assignor to H. B. Kruger, New York, N. Y. **Display device.** No. 1,359,203; Nov. 16; v. 280; p. 495.
Stranders, Julien, Brooklyn, assignor to American Chicle Company, New York, N. Y. **Display device.** No. 1,333,227; Mar. 9; v. 272; p. 251.
Stranders, Julien, Brooklyn, assignor to Atlanta Lithographic and Printing Company, New York, N. Y. **Easel.** No. 1,342,313; June 1; v. 275; p. 137.
Strandt, Gustav, assignor to Milwaukee Dairy Supply Manufacturing Company, Milwaukee, Wis. **Bottle-capping machine.** No. 1,358,797; Nov. 16; v. 280; p. 418.
Strandt, Gustav, assignor to Milwaukee Dairy Supply Manufacturing Company, Milwaukee, Wis. **Milk-bottle capper.** No. 1,360,463; Nov. 30; v. 280; p. 857.
Strane, Archibald J., Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del. **Machine for assembling shells.** No. 1,334,326; Mar. 23; v. 272; p. 565.
Strane, Archibald J., Tamaqua, assignor to Atlas Powder Company, Philadelphia, Pa. **Blasting-cap.** No. 1,358,478; Nov. 9; v. 280; p. 310.
Strang, Charles B., Lindenwood, Ill. **Wrench.** No. 1,360,051; Nov. 23; v. 280; p. 708.
Strang, Fred W., assignor to Gibraltar Tire & Rubber Company, Dallas, Tex. **Making cushion-tires.** No. 1,346,389; July 13; v. 276; p. 271.
Strang, Harry B., London, England. **Armor-piercing projectile.** No. 1,351,498; Aug. 31; v. 277; p. 890.
Stransky, John A., Pukwana, S. D. **Germicide attachment for telephones.** No. 1,329,557; Feb. 3; v. 271; p. 40.
Stransky, Stephen, Darby, Pa. **Foldable screened chair.** No. 1,344,097; June 22; v. 275; p. 669.
Stranszky, Emil, Canal Dover, Ohio. **Stand for electric irons.** No. 1,331,400; Feb. 17; v. 271; p. 484.
Strasburger, Amelia, New York, N. Y. **Game apparatus.** No. 1,345,277; June 29; v. 275; p. 963.
Strasburger, Lillian A., New York, N. Y. **Ornamental work similar to lace or drawn work.** No. 1,333,687; Mar. 16; v. 272; p. 399.
Strasburger, Maurice, *et al.* (See Norwood, Harry G., assignor.)
Strasburger, William V., *et al.* (See Norwood, Harry G., assignor.)
Strasser, Albert, Rorschach, Switzerland. **Deoxidizing copper and its alloys.** No. 1,348,457; Aug. 3; v. 277; p. 64.
Strasser, Albert, Rorschach, Switzerland. **Deoxidizing aluminum and its alloys.** No. 1,348,458; Aug. 3; v. 277; p. 64.
Stratford, Herbert R., Cleveland, Ohio. **Apparatus for and method of making rubber tubes.** No. 1,358,124; Nov. 9; v. 280; p. 239.
Strathmann, Edward C. (See Branson and Strathmann.)
Strathmore Paper Company. (See Holt, Daniel S., assignor.)
Stratigos, Emanuel J., Cleveland, Ohio. **Hat-bleaching composition.** No. 1,347,721; July 27; v. 276; p. 650.
Stratton, Charles E. (See Burns, Robert L., assignor.)
Stratton, Harry F., assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio. **Alternating-current magnet.** No. 1,331,290; Feb. 17; v. 271; p. 463.
Stratton, John. (See Beaver, Stratton, and Claremont.)
Stratton, Louis F., Charlotte, N. C. **Coil-winder.** No. 1,344,567; June 22; v. 275; p. 761.
Stratton, Nathaniel A., Boston, Mass. **Crushing and pulverizing machine.** No. 1,354,077; Sept. 28; v. 278; p. 604.
Stratton, William T., Billings, Mont. **Pump attachment for automobiles.** No. 1,350,122; Aug. 17; v. 277; p. 512.
Strait, William, Appleton, Wis., assignor to The Cleveland Tractor Company, Euclid, Ohio. **Tractor-truck.** No. 1,349,791; Aug. 17; v. 277; p. 449.
Straub, Anselm, Jr., Magnolia, N. J., assignor of one-half to W. F. Tosney, Philadelphia, Pa. **Union-suit.** No. 1,329,329; Jan. 27; v. 270; p. 585.
Straube Piano Company. (See Betz, William G., assignor.)
Straubel, F. L. G., Green Bay, Wis. **Desk-drawer file.** No. 1,350,186; Aug. 17; v. 277; p. 525.
Straubel, Louis A., Green Bay, Wis. **Machine for cutting and interfolding sheets of paper.** No. 1,326,986; Jan. 6; v. 270; p. 21.
Straubel, Louis A., Green Bay, Wis. **Machine for interfolding sheets of paper.** No. 1,326,987; Jan. 6; v. 270; p. 21.
Straus, Alexander L., Baltimore, Md. **Producing soft drinks.** No. 1,337,027; Apr. 13; v. 273; p. 311.
Straus, Alexander L., assignor to The Baltimore Process Company, Baltimore, Md. **Non-alcoholic beverage.** No. 1,337,850; Apr. 20; v. 273; p. 541.
Straus, Alexander L., assignor to Baltimore Process Company, Baltimore, Md. **Composition of matter.** No. 1,339,528; May 11; v. 274; p. 239.
Straus, Alexander L., Baltimore, Md., assignor to Baltimore Process Company. **Composition of matter.** No. 1,354,585; Oct. 5; v. 279; p. 28.
Strause Gas Iron Co. (See Spahr, Otto, assignor.)
Strause Gas Iron Co. (See Stichler, Charles, assignor.)
Strauser, Charles W., New York, N. Y. **Tire.** No. 1,355,788; Oct. 12; v. 279; p. 314.
Strauss, Benno, Bredeney, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. **Object having great strength and great resitsance against the action of acids.** No. 1,339,378; May 4; v. 274; p. 134.
Strauss, Edwin W. (See Schneider, Louis J., assignor.)
Strauss, Ernest H., Chicago, Ill. **Lamp-shade and light-diffuser.** No. 1,329,147; Jan. 27; v. 270; p. 553.
Strauss, Ferdinand, Inc. (See Irenius, Joseph V., assignor.)
Strauss, Gustavus E., New York, N. Y. **Loose-leaf file.** No. 1,333,350; Mar. 9; v. 272; p. 274.
Strauss, Joseph B., Chicago, Ill. **Observation-tower.** No. 1,328,461; Jan. 20; v. 270; p. 394.
Strauss, Joseph B., Chicago, Ill. **Device for stopping high-power vehicles.** No. 1,332,237; Mar. 2; v. 272; p. 12.
Strauss, Joseph B., Chicago, Ill. **Reconnoitering apparatus.** No. 1,349,635; Aug. 17; v. 277; p. 419.
Strauss, Lawrence L. (See d'Humy, Fernand E., assignor.)
Strauss, Mortimer I., Cleveland, Ohio. **Packing.** No. 1,329,558; Feb. 3; v. 271; p. 40.
Strauss, Samuel, Los Angeles, Calif. **Shoe.** No. 1,331,220; Feb. 17; v. 271; p. 451.
Strauss, Samuel, Los Angeles, Calif. **Lasting device.** No. 1,363,199; Dec. 21; v. 281; p. 536.
Strawn, Ervin E., Des Moines, Iowa. **Paper-handling device.** No. 1,355,364; Oct. 12; v. 279; p. 234.
Strawn, Herman M., Chico, Calif. **Wood-handling device.** No. 1,343,288; June 15; v. 275; p. 445.
Strawn, William H., *et al.* (See Blackwell, Henry F., assignor.)
Strebel, Louis, New York, N. Y. **Motor-valve.** No. 1,335,534; Mar. 30; v. 272; p. 852.
Streby, Ray D., Canal Fulton, assignor to The Fulton-Kenova Mine Car Company, Cleveland, Ohio. **Wheel construction** No. 1,344,600; June 22; v. 275; p. 768.
Streeper, William H., assignor to Stokes and Smith Company, Philadelphia, Pa. **Cleaning and stripping device for coating rollers.** No. 1,331,463; Feb. 17; v. 271; p. 496.
Street, Norman A., *et al.* (See Blood, Burr B., assignor.)
Streeter Amet Weighing & Recording Company. (See Guldbrandsen, Guldbrand, assignor.)
Strehlenert, Robert W., Gottenborg, Sweden. **Production of valuable organic and inorganic substances from waste sulfite liquor.** No. 1,361,506; Dec. 7; v. 281; p. 106.
Streib, John F. (See Lockwood, B. D., and Streib.)
Streib, John F., Avalon, assignor to Pressed Steel Car Company, Pittsburgh, Pa. **Ore-car.** No. 1,358,261; Nov. 9; v. 280; p. 265.
Streibich, J. C., and G. F. Gruver, Little Rock, Ark. **Submersible water-power device.** No. 1,350,187; Aug. 17; v. 277; p. 525.
Streibich, John C., Little Rock, Ark. **Removable barrel-head.** No. 1,344,098; June 22; v. 275; p. 669.

Digitized by Google

Streich, Paul B., assignor to The Union Wrapping Machine Company, Joliet, Ill. Dough-scaling machine. No. 1,331,130; Feb. 17; v. 271; p. 434.

Streich, Paul B., assignor to The Union Wrapping Machine Company, Joliet, Ill. Bun and bread molder and rounder. No. 1,362,057; Dec. 14; v. 281; p. 262.

Streich, William F., Detroit, Mich. Drawer-stabilizer. No. 1,352,924; Sept. 14; v. 278; p. 272.

Streich, William F., Cincinnati, Ohio. Combined table and transportation-base for office accessories. No. 1,360,052; Nov. 23; v. 280; p. 709.

Streiffert, August M. E., Norristown, assignor to Diamond State Fibre Company, Bridgeport, Pa. Sheet-rubber liner. No. 1,356,234; Oct. 19; v. 279; p. 445.

Strelchik, Michael, Glenfield, N. Y. Train-operated railway-gate. No. 1,349,986; Aug. 17; v. 277; p. 486.

Stremel, Joseph, assignor of one-half to E. Asher, Spokane, Wash. Sewer-pipe construction. No. 1,348,332; Aug. 3; v. 277; p. 40.

Stresau, Richard, Wauwautosa, assignor to A. O. Smith Corporation, Milwaukee, Wis. Manufacturing electrically-welded tubing. No. 1,359,001; Nov. 16; v. 280; p. 458.

Stretch, Arthur J., Seattle, Wash. Hinge. No. 1,348,598; Aug. 3; v. 277; p. 91.

Stretton, Theodore, assignor to Haslam & Stretton Limited, Cardiff, Wales. Electric cell for miners' lamps and for similar purposes. No. 1,357,126; Oct. 26; v. 279; p. 665.

Stretton, Theodore, Cardiff, Wales, and J. W. Jones, Cannock, England, assignors to Haslam & Stretton Limited, Cardiff, Wales. Miner's electric lamp. No. 1,352,636; Sept. 14; v. 278; p. 214.

Strey, Walter F. A., Neenah, Wis. Quack-grass destroyer. No. 1,328,697; Jan. 20; v. 270; p. 439.

Strickland Company, The. (See Strickland, David J., assignor.)

Strickland, David J., assignor to The Strickland Company, Cleveland, Ohio. Automatic brick-making machine. No. 1,344,099; June 22; v. 275; p. 669.

Strickland, David J., assignor to The Strickland Company, Cleveland, Ohio. Automatic brick-making machine. No. 1,344,278; June 22; v. 275; p. 704.

Strickland, Dewitt W., assignor of one-eighth to W. H. Brumfield, one-fourth to G. W. Summerall, and one-eighth to J. W. Sullivan, Tylertown, Miss. Trigger for double-barrel guns. No. 1,339,867; May 11; v. 274; p. 304.

Strickland, Frank M. (See Kennedy, George D., assignor.)

Strickland, Silas A., assignor to Detroit Accessories Corporation, Detroit, Mich. Pump. No. 1,334,567; Mar. 23; v. 272; p. 610.

Strickler, Charles L., Washington, D. C. Eyeglass or goggle support. No. 1,361,640; Dec. 7; v. 281; p. 133.

Stricker, George A. (See Stanley, Charles O., assignor.)

Strickler, John D., Chelsea, Mass. X-ray apparatus. No. 1,333,349; Mar. 9; v. 272; p. 274.

Stricklin, Hilliard, Chicago, Ill. Hand-guard for culinary implements. No. 1,330,406; Feb. 10; v. 271; p. 230.

Strid, Sven J., Chicago Heights, Ill., assignor to W. H. Miner, Chazy, N. Y. Door-operating mechanism. No. 1,338,755; May 4; v. 274; p. 20.

Striegler, Fritz, Fort McKavett, Tex. Automatic trough-valve. No. 1,347,353; July 20; v. 276; p. 521.

Strietelmeier, John E., assignor to The Ideal Wheel Company, Cincinnati, Ohio. Organized-wheel structure. No. 1,339,676; May 11; v. 274; p. 268.

Strietelmeier, John E., assignor to The Ideal Wheel Company, Cincinnati, Ohio. Spring-wheel. No. 1,348,834; Aug. 3; v. 277; p. 135.

Strieter, Florence A., Chicago, Ill. Railway-gate. No. 1,244,776; June 29; v. 275; p. 867.

Strimple, William, Jersey City, N. J. Bridge-warning. No. 1,360,992; Nov. 30; v. 280; p. 961.

Stringer, Melvin, Cleveland, assignor of one-fourth to G. T. Bauder and one-fourth to A. E. Merkel, Cleveland, Ohio. Brake mechanism for vehicles. No. 1,348,331; Aug. 3; v. 277; p. 40.

Stringfellow, Henry A., and E. W. Templin, Rochester, N. Y. Steam-engine. No. 1,350,625; Aug. 24; v. 277; p. 657.

Stringfield, Raymond B., assignor to International Precipitation Company, Los Angeles, Calif. Recovery of solubles from flue-dust. No. 1,345,034; June 29; v. 275; p. 916.

Stringham, George R., New York, assignor to T. B. Lyon, Mamaroneck, and W. W. Lyon, White Plains, N. Y., trustees. Motion-picture camera. No. 1,334,057; Mar. 16; v. 272; p. 468.

Stringham, George R., assignor, by mesne assignments, to M. V. Kelley, trustee, New York, N. Y. Motion-picture camera. No. 1,350,683; Aug. 24; v. 277; p. 669.

Stringham, George R., assignor, by mesne assignments, to M. V. Kelley, trustee, New York, N. Y. Motion-picture camera. No. 1,362,199; Dec. 14; v. 281; p. 290.

Stringham, George R., assignor to M. V. Kelley, trustee, New York, N. Y. Motion-picture camera. No. 1,363,822; Dec. 28; v. 281; p. 697.

Stringham, John H., Jersey City, N. J. Ignition device for explosive-engines. No. 1,354,586; Oct. 5; v. 279; p. 28.

Ströbeck, Frans T., Beachmont, Mass., assignor to The Singer Manufacturing Company. Work-guide for sewing-machines. No. 1,342,775; June 8; v. 275; p. 281.

Strobel, Carl W. F., Lima, Ohio. Railway-crossing signal. No. 1,328,854; Jan. 27; v. 270; p. 497.

Strobino, Gaston, Paterson, N. J. Machine for forming oval objects. No. 1,359,545; Nov. 23; v. 280; p. 608.

Strobl, Frank. (See Sebring, F. A., and Strobl.)

Strohacker, Louis, assignor to Structo Manufacturing Company, Freeport, Ill. Toy tractor-chain and link therefor. No. 1,353,861; Sept. 28; v. 278; p. 560.

Strohbach, Henry, New York, N. Y. Coffee-urn. No. 1,349,236; Aug. 10; v. 277; p. 267.

Strohl, Harry B., D. N. Imboden, and J. H. McCashen, Sidney, Ohio. Foot-power winding device for phonographs. No. 1,331,828; Feb. 24; v. 271; p. 586.

Strom, Rudolf, *et al.* (See Alseth, Stengrim, assignor.)

Stromberg-Carlson Telephone Manufacturing Company. (See Dean, William W., assignor.)

Stromberg-Carlson Telephone Manufacturing Company, The. (See Haubrich, Alexander M., assignor.)

Stromberg-Carlson Telephone Manufacturing Company, The. (See Paca, William S., assignor.)

Stromberg-Carlson Telephone Manufacturing Company, The. (See Slough, Frank M., assignor.)

Stromberg, Jean E., San Diego, Calif. Panoramic camera. No. 1,347,062; July 20; v. 276; p. 464.

Stromberg Motor Devices Company. (See Anderson, Raymond M., assignor.)

Stromberg Motor Devices Company. (See Edwards, Francis E., assignor.)

Stromberg Motor Devices Company. (See Goldberg, J. S., and Anderson, assignors.)

Stromberg Motor Devices Company. (See Maegly, George B., assignor.)

Stromberg Motor Devices Company. (See Mock, Frank C., assignor.)

Stromeyer, Julius, Philadelphia, Pa. Heat-resisting packing. No. 1,330,148; Feb. 10; v. 271; p. 182.

Stromwall, Oscar A., Foreston, Minn. Combination milking-stool and pail-holder. No. 1,333,643; Mar. 16; v. 272; p. 390.

Stronach, Addie B. (See Stronach, Harry S., assignor.)

Stronach, Harry S., assignor to A. B. Stronach, Oak Park, Ill. Making battery-separators. No. 1,355,433; Oct. 12; v. 279; p. 247.

Stroner, Anthony, Florence, Colo. Operating mechanism for sack-tying devices. No. 1,335,263; Mar. 30; v. 272; p. 801.

Strong, Albin L., Hoboken, N. J. Drill-chuck or the like. No. 1,340,845; May 18; v. 274; p. 545.

Strong, Annie W. S., *et al.* (See Harmon, Alton D., assignor.)

Strong, Arthur P., Chicago, Ill., assignor to Green Engineering Company, East Chicago, Ind. Ash-conveying system. No. 1,357,259; Nov. 2; v. 280; p. 12.

Strong, Carlisle and Hammond Company, The. (See Weintz, Jacob, assignor.)

Strong, Deborah V., Akron, Ind. Teapot-strainer. No. 1,339,008; May 4; v. 274; p. 66.

Strong Machinery & Supply Co., The. (See Hatfield, Andrew L., assignor.)

Strong, Mark D., assignor to Sewell-Clapp-Envelopes, Chicago, Ill. Envelop-blank-cutting machinery. No. 1,362,365; Dec. 14; v. 281; p. 322.

Strong, William J. H. (See Freeland, Lloyd D., assignor.)

Strong, William J. H., Beloit, Wis. Air machine and propeller. No. 1,344,661; June 29; v. 275; p. 845.

Strong, William W., Mechanicsburg, Pa., assignor to Research Corporation, New York, N. Y. Regulating the velocity of fumes passing through electrical precipitators. No. 1,337,488; Apr. 20; v. 273; p. 472.

Strong, William W., Mechanicsburg, Pa., assignor to Research Corporation, New York, N. Y. Regulating the velocity of fumes passing through electrical precipitators. No. 1,337,489; Apr. 20; v. 273; p. 472.

Strongson, Herman L., Springfield, Mass., assignor to Loeb-Strongson Corporation, New York, N. Y. Slip-cover for cans. No. 1,343,099; June 8; v. 275; p. 345.

Strongson, Herman L., Springfield, Mass., assignor to Loeb-Strongson Corporation, New York, N. Y. Pouring-spout. No. 1,355,010; Oct. 5; v. 279; p. 111.

Stroppel, Rudolf. (See Parker, E. G., and Stroppel.)

Strosaker, Charles J. (See Dow, H. H., and Strosaker.)

Strosk, Mark, Washington, D. C. Clutch mechanism. No. 1,354,521; Oct. 5; v. 278; p. 15.

Stroud, Arthur E., Long Eaton, England. Loom. No. 1,357,127; Oct. 26; v. 279; p. 666.

Stroud, David H., Philadelphia, Pa. Machine for treating cut-pile fabrics. No. 1,344,777; June 29; v. 275; p. 868.

Stroud, David L., Mabel, Minn. Attachment for motor-vehicles. No. 1,345,278; June 29; v. 275; p. 963.

Stroud, Edmund H., Chicago, Ill. Apparatus for supplying powdered fuel to furnaces. No. 1,353,291; Sept. 21; v. 278; p. 403.

Stroud, John R., Scenery Hill, Pa. Safety device for elevators. No. 1,336,170; Apr. 6; v. 273; p. 88.

Stroud, William. (See Barr, A., and Stroud.)

Stroud, William. (See Barr, A., Stroud, and d'Albe.)

Strough, Howard P., Fresno, Calif. Tuning-peg for musical instruments. No. 1,345,972; July 6; v. 276; p. 128.

Digitized by Google

Stroy, Asa W., Vallejo, Calif. Door-knob attachment. No. 1,334,267; Mar. 16; v. 272; p. 507.
Strŏyberg, Carl B., S. Nielsen, Boskilde; and C. Elmer, Naurbjerg Mejeri, Denmark. Apparatus for lifting and emptying pails and cans. No. 1,334,827; Mar. 23; v. 272; p. 565.
Struchen, Henry C., St. Paul, Minn. Brake for trucks and similar vehicles. No. 1,353,862; Sept. 28; v. 278; p. 560.
Structo Manufacturing Company. (See Strohacker, Louis, assignor.)
Strukelj, Jacob, McDowell, W. Va. Detachable steering-wheel. No. 1,334,417; Mar. 23; v. 272; p. 582.
Strukell, Antony, assignor of one-fourth to H. B. Dods, Brooklyn, N. Y. Thread-cutting machine. No. 1,354,078; Sept. 28; v. 278; p. 604.
Strumph, Isadore N., New York, N. Y. Detachable cuff for shirt-sleeves. No. 1,349,987; Aug. 17; v. 277; p. 486.
Struve, Hamilton H., Cincinnati, Ohio. Spring-leaf spreader. No. 1,338,111; Apr. 27; v. 273; p. 660.
Stryhal, Joseph M., Washington, D. C., assignor of one-half to W. M. Manion, Philadelphia, Pa. Attachment for grinding screw-threaded articles. No. 1,350,044; Aug. 17; v. 277; p. 497.
Stryhal, Joseph M., Washington, D. C., assignor of one-half to William M. Manion, Philadelphia, Pa. Attachment for grinding screw-threaded articles. No. 1,355,710; Oct. 12; v. 279; p. 300.
Stryker, Jesse C., *et al.* (See Procunier, Frank R., assignor.)
Stuart, Charles A. (See Travis, D. C., and Stuart.)
Stuart, Charles A. and G. E., Oregon City, Oreg. Tire-protector. No. 1,362,516; Dec. 14; v. 281; p. 351.
Stuart, Charles A. and G. E., and A. L. and C. P. Farr, Oregon City, Oreg. Bag-holder. No. 1,362,517; Dec. 14; v. 281; p. 352.
Stuart, Charles J., New Haven, Conn., assignor to L. Candee & Company. Pneumatic shoe-press. No. 1,337,532; Apr. 20; v. 273; p. 481.
Stuart, Charles J., Somerville, Mass. Automatic controlling device. No. 1,353,484; Sept. 21; v. 278; p. 431.
Stuart, David K. (See Newman, W. E., and Stuart.)
Stuart, Edwards B., Chicago, Ill. Cuff-button. No. 1,333,228; Mar. 9; v. 272; p. 251.
Stuart, Edwards B., Chicago, Ill. Cuff-button. No. 1,335,585; Mar. 30; v. 272; p. 852.
Stuart, Edwards B., Chicago, Ill. Typewriting-machine. No. 1,352,229; Sept. 7; v. 278; p. 99.
Stuart, Francis L., New York, N. Y. Apparatus for conveying and delivering materials. No. 1,331,464; Feb. 17; v. 271; p. 496.
Stuart, Francis L., New York, N. Y. Conveying system. No. 1,331,883; Feb. 24; v. 271; p. 596.
Stuart, Francis L., New York, N. Y. Conveying system. No. 1,335,455; Mar. 30; v. 272; p. 837.
Stuart, Francis L., New York, N. Y. Apparatus for gathering and conveying material. No. 1,346,390; July 13; v. 276; p. 271.
Stuart, Francis L., New York, N. Y. Conveying apparatus. No. 1,346,990; July 20; v. 276; p. 449.
Stuart, Francis L., Greenwich, Conn. Conveyer system. No. 1,339,486; May 11; v. 274; p. 231.
Stuart, Francis L., Washington, D. C., assignor to International Conveyor Corporation, New York, N. Y. Reclaiming and conveying apparatus. No. 1,348,599; Aug. 8; v. 277; p. 91.
Stuart, Francis L., Washington, D. C., assignor to International Conveyor Corporation, New York, N. Y. Apparatus for storing coal, ore, and other materials. No. 1,354,226; Sept. 28; v. 278; p. 634.
Stuart, George E. (See Stuart, Charles A. and G. E.)
Stuart, George E. (See Stuart, Charles A. and G. E., A. L. and C. P. Farr.)
Stuart, George S., Bradford, Pa. Adjustable-seat attachment. No. 1,356,235; Oct. 19; v. 279; p. 445.
Stuart, George W., Bay Minette, Ala. Vine-cutter. No. 1,350,529; Aug. 24; v. 277; p. 639.
Stuart, James D., New Haven, Conn. Portable sewing-machine stand. No. 1,334,508; Mar. 23; v. 272; p. 599.
Stuart, Johnston. (See Scott, J. A., and Voigt, assignors.)
Stuart, Marven H., Santa Cruz, Calif. Apparatus for cooking and drying canned food. No. 1,335,136; Mar. 30; v. 272; p. 778.
Stuart, Robert F., Kokomo, Ind. Box-marking machine. No. 1,351,353; Aug. 31; v. 277; p. 862.
Stubblebine, Raymond F., assignor to Hale & Kilburn Corporation, Philadelphia, Pa. Car-seat. No. 1,343,594; June 15; v. 275; p. 505.
Stubblefield, John A., Oregon City, Oreg. Nut-lock. No. 1,351,974; Sept. 7; v. 278; p. 52.
Stubbs, Alberta P., Lethbridge, Alberta, Canada. Drinking-cup. No. 1,355,866; Oct. 19; v. 279; p. 371.
Stubbs, John S., Liverpool, England. Collapsible receptacle for carrying goods. No. 1,335,137; Mar. 30; v. 272; p. 779.
Stubbs, Robert A., assignor of three-fourths to G. W. Griswold, Dallas, Tex. Shredding and blending mechanism for feed. No. 1,344,832; June 29; v. 275; p. 878.
Stubbs, Robert L., assignor to The Park Manufacturing Company, Charlotte, N. C. Safety attachment for elevators. No. 1,336,664; Apr. 13; v. 273; p. 241.
Stuber, Adolph, Rochester, N. Y. Fluid measuring and indicating mechanism. No. 1,355,183; Oct. 12; v. 279; p. 199.
Stuber, Adolph, Rochester, N. Y. Liquid-feeding device. No. 1,357,361; Nov. 2; v. 280; p. 31.
Stuber, Adolph, Rochester, N. Y. Liquid-measuring apparatus. No. 1,361,641; Dec. 7; v. 281; p. 133.
Studebaker Corporation, The. (See Bourgon, Joseph H., assignor.)
Studebaker Corporation, The. (See Hanch, C. C., and Brannigan, assignors.)
Studebaker Corporation, The. (See Werdhoff, Albert B., assignor.)
Studley, J. Butler, *et al.*, executors. (See Arnold, William B.)
Study, Nathaniel C., Kalamazoo, Mich. Tamping-machine. No. 1,341,944; June 1; v. 275; p. 65.
Study, Nathaniel C., Kalamazoo, Mich. Tamper and the like implement. No. 1,341,945; June 1; v. 275; p. 65.
Stuebing Truck Company, The. (See Stuebing, William, Jr., assignor.) (Reissue.)
Stuebing, William, Jr., Cincinnati, Ohio, assignor, by mesne assignments, to The Stuebing Truck Company. Lifting-truck. (Reissue.) No. 14,839; Apr. 13; v. 273; p. 341.
Stukart, Hendrik, assignor to U. S. Slicing Machine Company, Laporte, Ind. Sharpener for slicing-machines. No. 1,331,596; Feb. 24; v. 271; p. 542.
Stuke, Ernest, Meridian, Miss. Internal-combustion engine. No. 1,357,911; Nov. 2; v. 280; p. 136.
Stuke, Ernest, Meridian, Miss. Valve-operating mechanism. No. 1,357,912; Nov. 2; v. 280; p. 136.
Stukenborg, Frederick W. (See Stukenborg, Louis C., assignor.)
Stukenborg, Louis C., assignor to F. W. Stukenborg, Chicago, Ill. Cotton-picker. No. 1,332,580; Mar. 2; v. 272; p. 78.
Stukenborg, Louis C., assignor to F. W. Stukenborg, Chicago, Ill. Tubing. No. 1,343,236; June 15; v. 275; p. 436.
Stukes, Earl M. (See Hansen, A. A., and Stukes.)
Stukes, John M., Hearne, Tex. Boll-weevil catcher. No. 1,334,973; Mar. 30; v. 272; p. 747.
Stull, Jacob H., Tremont, Ohio. Lead-pencil. No. 1,361,115; Dec. 7; v. 281; p. 27.
Stull, John S., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Testing-machine. No. 1,336,543; Apr. 13; v. 273; p. 218.
Stults, John W., Joplin, Mo. Multiple-tank washing-machine. No. 1,360,464; Nov. 30; v. 280; p. 857.
Stump, David, Blue Mound, Kans. Fastener for traction-chains. No. 1,330,357; Feb. 10; v. 271; p. 221.
Stump, Delano K., Circleville, Ohio. Means for controlling automobile-lamps. No. 1,334,187; Mar. 16; v. 272; p. 492.
Stump, Lynn B. (See Adams, T. W., and Stump.)
Stumpf, Edward O., Los Angeles, Calif. Printing-press. No. 1,331,449; Feb. 17; v. 271; p. 493.
Stumpf, Frank J., Mount Washington, Mo. Oil-well cleaner. No. 1,360,053; Nov. 23; v. 280; p. 709.
Stumpf Una-Flow Engine Company. (See Turnwald, Wolfgang, assignor.)
Stungo, Joseph, New York, N. Y. Wheel and demountable-rim construction. No. 1,351,587; Aug. 31; v. 277; p. 908.
Stupar, Max., assignor to A. J. Elias, Buffalo, N. Y. Hoisting device for flying-machines. No. 1,346,772; July 13; v. 276; p. 347.
Stupar, Max, assignor to A. J. Elias, Buffalo, N. Y. Launching device for flying-machines. No. 1,350,947; Aug. 24; v. 277; p. 719.
Stupar, Max, assignor to Abraham J. Elias, Buffalo, N. Y. Detachable stabilizing-fin for flying-machines. No. 1,350,948; Aug. 24; v. 277; p. 719.
Stupar, Max, assignor to Abraham J. Elias, Buffalo, N. Y. Rudder for hydroaeroplanes. No. 1,354,353; Sept. 28; v. 278; p. 660.
Stupar, Maximillian F., assignor to A. J. Elias, Buffalo, N. Y. Driving mechanism for flying-machines. No. 1,357,260; Nov. 2; v. 280; p. 12.
Stupar, Max, assignor to A. J. Elias, Buffalo, N. Y. Hydroaeroplane. No. 1,358,596; Nov. 9; v. 280; p. 333.
Stupar, Maximillian F., assignor to A. J. Elias, Buffalo, N. Y. Landing-gear for flying-machines. No. 1,342,138; June 1; v. 275; p. 103.
Sturdevant, Charles R. (See Dahlstrom, F. P., and Sturdevant.)
Sturdi-Truck Company, The. (See Hennessy, Daniel E., assignor.)
Sturgeon, Robert A., Southsea, England. Centrifugal separator and process. No. 1,356,665; Oct. 26; v. 279; p. 575.
Sturges, Norman D., Bellerose Queens, N. Y. Self-filling storage battery. No. 1,327,121; Jan. 6; v. 270; p. 45.
Sturges, Norman D., Bellerose Queens, N. Y., assignor to Multiple Storage Battery Company. Storage-battery. No. 1,340,636; May 18; v. 274; p. 507.
Sturges, Norman D., Bellerose Queens, N. Y., assignor to Multiple Storage Battery Company. Storage battery. No. 1,340,637; May 18; v. 274; p. 507.
Sturgis Steel Go-Cart Company. (See Lindberg, Charles A., assignor.)

Digitized by Google

Sturk, Ernest E., Tuxedo Park, N. Y. Combination furniture. No. 1,347,417; July 20; v. 276; p. 533.
Sturk, Ewald E., Davenport, Iowa. Toy cannon. No. 1,358,125; Nov. 9; v. 280; p. 289.
Sturm, Harry P., Clarksburg, W. Va. Multiple-intake manifold. No. 1,347,598; July 27; v. 276; p. 626.
Sturm, James, Tampico, Ill. Trousers-supporting device. No. 1,342,930; June 8; v. 275; p. 311.
Sturm, Lewis D., Portland, Oreg. Automatic wood-saw. No. 1,332,477; Mar. 2; v. 272; p. 58.
Sturt, Alfred T., New York, N. Y., assignor to General Motors Corporation, Detroit, Mich. Clutch-releasing mechanism for automobiles. No. 1,336,000; Apr. 6; v. 273; p. 56.
Sturtevant Aeroplane Company. (See Loening, Grover C., assignor.)
Sturtevant, B. F., Company. (See Allen, George W., assignor.)
Sturtevant, B. F., Company. (See Leonard, Merton S., assignor.)
Sturtevant, Laurance H. (See Sturtevant, Thomas J. and L. H.)
Sturtevant Mill Company. (See Sturtevant, T. J., and Doyle, assignors.)
Sturtevant Mill Company. (See Sturtevant, T. J., and Sawyer, assignors.)
Sturtevant Mill Company. (See Sturtevant, Thomas J., assignor.)
Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Separator. No. 1,350,626; Aug. 24; v. 277; p. 658.
Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Crushing-roll machine. No. 1,350,748; Aug. 24; v. 277; p. 682.
Sturtevant, Thomas J., Wellesley, Mass., assignor to Sturtevant Mill Company, Boston, Mass. Separator. No. 1,353,545; Sept. 21; v. 278; p. 453.
Sturtevant, Thomas J., Wellesley, assignor, by mesne assignments, to Sturtevant Mill Company, Boston, Mass. Separator. No. 1,353,547; Sept. 21; v. 278; p. 453.
Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Separator. No. 1,353,548; Sept. 21; v. 278; p. 453.
Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Separator. No. 1,353,549; Sept. 21; v. 278; p. 454.
Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Separator. No. 1,353,550; Sept. 21; v. 278; p. 454.
Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Separator. No. 1,353,551; Sept. 21; v. 278; p. 454.
Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Crushing-mill. No. 1,360,465; Nov. 30; v. 280; p. 858.
Sturtevant, Thomas J., Wellesley, assignor, by mesne assignments, to Sturtevant Mill Company, Boston, Mass. Crushing-mill. No. 1,360,466; Nov. 30; v. 280; p. 858.
Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Machine for mixing materials. No. 1,360,468; Nov. 30; v. 280; p. 858.
Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Separator. No. 1,360,469; Nov. 30; v. 280; p. 859.
Sturtevant, Thomas J., Quincy, assignor to Sturtevant Mill Company, Boston, Mass. Separator. No. 1,353,546; Sept. 21; v. 278; p. 453.
Sturtevant, Thomas J., Wellesley, and W. T. Doyle, assignors to Sturtevant Mill Company, Boston, Mass. Elevator. No. 1,342,470; June 8; v. 275; p. 221.
Sturtevant, Thomas J., Wellesley, and E. A. Sawyer, Malden, assignors to Sturtevant Mill Company, Boston, Mass. Weighing-machine. No. 1,360,467; Nov. 30; v. 288; p. 858.
Sturtevant, Thomas J., Wellesley, Mass., and L. H. Sturtevant, Temple, N. H., assignors to Sturtevant Mill Company, Boston, Mass. Mixing apparatus. No. 1,363,823; Dec. 28; v. 281; p. 697.
Sturtze, John G., Lowville, N. Y. Adjustable platform for hay-loaders. No. 1,352,996; Sept. 14; v. 278; p. 286.
Stutz, Charles C., assignor to Synthetic Hydrocarbon Company, Pittsburgh, Pa. Furnace for treating hydrocarbons. No. 1,359,931; Nov. 23; v. 280; p. 685.
Stutzer, Edward, assignor to Victor Nailing Machine Company, Inc., Brooklyn, N. Y. Nailing-machine. No. 1,356,894; Oct. 26; v. 279; p. 620.
Stutzke, R. W. G., assignor to The G. A. Buhl Company, Chicago, Ill. Desiccating milk and the like. No. 1,350,248; Aug. 17; v. 277; p. 537.
Stutzke, Richard W. G., assignor, by mesne assignments, to The G. A. Buhl Company, Chicago, Ill. Drying solids. No. 1,329,813; Feb. 3; v. 271; p. 87.
Stutzke, Richard W. G., assignor to Crown Maltose Company, Chicago, Ill. Desiccating fluid substances. No. 1,350,247; Aug. 17; v. 277; p. 536.
Stuyvesant Glass Company. (See Elmer, A., and Wiegand, assignors.)
Styll, Harry H. (See Parsons, H. K., and Styll.)
Styll, Harry H., Southbridge, Mass. Ophthalmic mounting. No. 1,330,824; Feb. 17; v. 271; p. 376.
Styll, Harry H., Southbridge, Mass. Periscope. No. 1,341,683; June 1; v. 275; p. 14.
Styll, Harry H., Southbridge, Mass. Ophthalmic lens. No. 1,356,666; Oct. 26; v. 279; p. 575.
Styll, Harry H., Southbridge, Mass. Ophthalmic lens. No. 1,359,204; Nov. 16; v. 280; p. 495.
Styll, Harry H., Southbridge, Mass. Eye-protector. No. 1,363,689; Dec. 28; v. 281; p. 671.
Stynkowic, Ignacy, East Hammond, Ind. Combined folding chair and table. No. 1,328,462; Jan. 20; v. 270; p. 395
Subers, Lawrence A., Lakewood, Ohio. Band-making machine. No. 1,332,527; Mar. 2; v. 272; p. 68.
Subers, Lawrence A., Lakewood, Ohio. Tire having a reserve of expansibility. No. 1,339,868; May 11; v. 274; p. 304.
Subers, Lawrence A., Lakewood, Ohio. Laminated cohesive interwound fabric band. No. 1,339,869; May 11; v. 274; p. 304.
Sublett, Benjamin T., assignor of one-half to H. L. Sublett, Danville, Va. Water-bag for filling automobile-radiators. No. 1,341,157; May 25; v. 274; p. 677.
Sublett, Henry L. (See Sublett, Benjamin T., assignor.)
Sublette, William M., assignor of one-half to C. M. Blair, Los Angeles, Calif. Spark-plug. No. 1,354,924; Oct. 5; v. 279; p. 95.
Submarine Arms Corporation. (See Leathers, Ward G., assignor.)
Submarine Signal Company. (See Blake, Robert F., assignor.)
Submarine Signal Company. (See Fessenden, Reginald A., assignor.)
Submarine Signal Company. (See Leigh, Townes R., assignor.)
Submarine Signal Company. (See Wood, Edward C., assignor.)
Suchy, Frank C., San Antonio, Tex. Staple-setter. No. 1,343,289; June 15; v. 275; p. 445.
Suchy, Frank C., San Antonio, Tex. Tag-threading machine. No. 1,343,290; June 15; v. 275; p. 445.
Suckert, Harold C., New York, N. Y. Spark-plug. No. 1,363,931; Dec. 28; v. 281; p. 718.
Suckfield, George A. (See Lockwood, B. D., and Suckfield.)
Suczek, Robert, assignor to C. H. Wheeler Manufacturing Company, Philadelphia, Pa. Auxiliary apparatus for condensers. No. 1,342,471; June 8; v. 275; p. 221.
Suczek, Robert, assignor to C. H. Wheeler Manufacturing Company, Philadelphia, Pa. Method of and apparatus for compressing fluid. No. 1,344,967; June 29; v. 275; p. 903.
Suczek, Robert, assignor to C. H. Wheeler Manufacturing Company, Philadelphia, Pa. Ejector control. No. 1,362,515; Dec. 14; v. 281; p. 351.
Sudbury, Sherman E., Salt Lake City, Utah. Automatically-operated support. No. 1,346,773; July 13; v. 276; p. 347.
Sudderth, W. J. (See Horne, Henry M., assignor.)
Sudler, Charles E (See Sudler, Emory and C. E.)
Sudler, Emery and C. E., New York, N. Y. Typewriter attachment. No. 1,353,939; Sept. 28; v. 278; p. 575
Sudlow, William E., Lincolnton, N. C. Hydraulic concentrating apparatus. No. 1,362,448; Dec. 14; v. 281; p. 338.
Sudul, John, Cleveland, Ohio. Bird-trap. No. 1,345,716; July 6; v. 276; p. 76.
Suedmeyer, Louis, St. Louis, Mo. Tobacco-pipe. No. 1,336,393; Apr. 6; v. 273; p. 130.
Suekert, Harold C., New York, N. Y. Fuel-feeding device for internal-combustion engines. No. 1,356,096; Oct. 19; v. 279; p. 417.
Suekoff, Louis A., Chicago, Ill. Spring-inserting tool. No. 1,352,157; Sept. 7; v. 278; p. 85.
Suffa, George A., Dorchester, Mass. Valve mechanism. No. 1,336,447; Apr. 13; v. 273; p. 200.
Sugar Centrifugal Discharger Company. (See Roberts, Eugene, assignor.)
Sugimura, Matthew Y., New York, N. Y. Independently-detachable undershade for light-standards. No. 1,349,478; Aug. 10; v. 277; p. 315.
Suhr, Matthew, Chicago, Ill. Lock-nut. No. 1,329,814; Feb. 3; v. 271; p. 88.
Sullivan, Arthur B. (See Mott, Samuel D., assignor.)
Sullivan, Cecelia I., assignor, by mesne assignments, to Mills Woven Cartridge Belt Company, Worcester, Mass. Woven carrier. No. 1,338,797; May 4; v. 274; p. 28.
Sullivan, Daniel C., and G. L. Hawkins, Elizabeth, and W. J. MacMillan, Roselle, assignors of one-half to D. C. Sullivan, Elizabeth, N. J., and one-half to Almion Engineering & Contracting Company, New York, N. Y. Wire-drawing machine. No. 1,344,568; June 22; v. 275; p. 761.
Sullivan, Daniel D., Fargo, N. D. Lens-grinder. No. 1,331,037; Feb. 17; v. 271; p. 418.
Sullivan, E. Mark, administrator. (See McFeely, Ronald F., assignor.)
Sullivan, Ernest. (See Macbeth, C., and Sullivan.)
Sullivan, Francis J. (See Hopkins, W. G., and Sullivan.)
Sullivan, Frank, Cusick, Wash. Portable irrigating device. No. 1,350,684; Aug. 24; v. 277; p. 669.
Sullivan, Frank, Cusick, Wash. Irrigation-ditch lining. No. 1,363,690; Dec. 28; v. 281; p. 671.
Sullivan, Frank, Cusick, Wash. Irrigation-apron. No. 1,363,691; Dec. 28; v. 281; p. 672.
Sullivan, Frank A., and W. L. Lukens, Bethlehem, assignors to Bethlehem Steel Company, South Bethlehem, Pa. Fuse. No. 1,342,652; June 8; v. 275; p. 255.

Sullivan, Frank P., Belvidere, Ill. Gun-cleaner. No. 1,337,104; Apr. 13; v. 273; p. 326.
Sullivan, Herbert W. (See Dean-Osgood, Henry J., assignor.)
Sullivan, J. W., *et al.* (See Strickland, Dewitt W., assignor.)
Sullivan, James F., *et al.* (See Palmer, Victor C., assignor.)
Sullivan, John D., and H. L. Fry; said Fry assignor to said Sullivan, New Castle, Pa. Resilient tire. No. 1,355,011; Oct. 5; v. 279; p. 111.
Sullivan, John J., Lowell, Mass. Fuel-reserve tank. No. 1,344,738; June 29; v. 275; p. 860.
Sullivan, Joseph, *et al.* (See Real, L., and Hebern, assignors.)
Sullivan, Joseph F., *et al.* (See Rial, L., and Hebern, assignors.)
Sullivan, Leon S., and A. E. Adams, Sheffield, Iowa. Legband for poultry. No. 1,362,969; Dec. 21; v. 281; p. 491.
Sullivan Machinery Company. (See Gartin, Elmer G., assignor.)
Sullivan Machinery Company. (See Gilman, George H., assignor.)
Sullivan Machinery Corporation. (See Holdsworth, Fred D., assignor.)
Sullivan Machinery Company. (See Holmes, Morris P., assignor.).
Sullivan Machinery Company. (See Johansen, Harry, assignor.)
Sullivan Machinery Company. (See Mercer, Henry H., assignor.)
Sullivan Machinery Company. (See Oliphant. John, assignor.)
Sullivan Machinery Company. (See Osgood, Robert C., assignor.)
Sullivan Machinery Company. (See Wyman, Charles W., assignor.)
Sullivan, Martin, Kimberly, Idaho. Multiple-cylinder-pump attachment. No. 1,327,449; Jan. 6; v. 270; p. 105.
Sullivan, Michael F., San Francisco, assignor to G. A. Margeson, San Jose, Calif. Indicator. No. 1,351,707; Aug. 31; v. 277; p. 931.
Sullivan, Michael H., Poughkeepsie, N. Y. Piston and piston-ring. No. 1,364,005; Dec. 28; v. 281; p. 732.
Sullivan, Michael J. (See Dorgan, J. J., and Sullivan.)
Sullivan, Patrick J. M., Woodcliffe-on-Hudson, N. J., assignor to Monahan Rotary Engine Corporation, New York. N. Y. Internal-combustion engine. No. 1,335,764; Apr. 6; v. 273; p. 12.
Sullivan, Vernon L., El Paso, Tex. Electric-generator attachment for windmills. No. 1,336,544; Apr. 13; v. 273; p. 218.
Sullivan, Ward, Sidney, Ohio. Fruit-peeler. No. 1,352,325; Sept. 7; v. 278; p. 117.
Sullivan, William E. Roodhouse, Ill. Truck. No. 1,351,808; Sept. 7; v. 278; p. 18.
Sullivan, William E., Roodhouse, Ill. Shaft-coupling. No. 1,356,024; Oct. 19; v. 279; p. 402.
Sulman, Henry L., and H. F. K. Picard, assignors to Minerals Separation Limited, London, Eng. Recovery of copper from its ores and solutions. No. 1,333,688; Mar. 16; v. 272; p. 399.
Sulman, Henry L., and S. Field, assignors to The Metals Extraction Corporation Limited, London, England. Purification of zinc solutions. No. 1,336,886; Apr. 6; v. 273; p. 129.
Sulman, Henry L., and S. Field, assignors to the Metals Extraction Corporation Limited, London, England. Purification of zinc solutions. No. 1,341,601; May 25; v. 274; p. 762.
Suloff, Noah H. (See Pease, W. E., and Suloff.)
Sultanaki, John G., Savannah, Ga. Table-cover. No. 1,332,776; Mar. 2; v. 272; p. 115.
Sultemeyer, Charles F., assignor to Chicago Manufacturing and Distributing Co., Oak Park, Ill. Forging-die. No. 1,355,434; Oct. 12; v. 279; p. 247.
Sultzer, Morton B., assignor to H. J. Rivoire, New York, N. Y. Toy pistol. No. 1,333,945; Mar. 16; v. 272; p. 447.
Sulzberger, Nathan, New York, N. Y. Iodin dusting-powder and making same. No. 1,329,148; Jan. 27; v. 270; p. 553.
Sulzberger, Nathan, New York, N. Y. Catalyst and producing same. No. 1,338,709; May 4; v. 274; p. 11.
Sulzberger, Nathan, New York, N. Y. Reducing the sensitiveness of silver compounds and products. No. 1,356,236; Oct. 19; v. 279; p. 445.
Sulzberger, Nathan, New York, N. Y. Desensitizing photosensitive silver compounds. No. 1,361,352; Dec. 7; v. 281; p. 75.
Sulzner, Charles, Audubon, N. J. Clasp. No. 1,331,291; Feb. 17; v. 271; p. 463.
Sumbling, William H., Toronto, Ontario, Canada. Combined grinding-wheel guard and rest. No. 1,332,009; Feb. 24; v. 271; p. 620.
Sumitomo Chukosho, Ltd. (See Honda, Kotaro, assignor.)
Summerall, G. W., *et al.* (See Strickland, Dewitt W., assignor.)
Summerbell, William, Washington, D. C., assignor of one-half to F. A. Sutton, Oakhurst, Ashford, England. Honing device or holder for safety-razors. No. 1,327,498; Jan. 6; v. 270; p. 115.
Summerhayes, Henry R. (See Craighead, James R., and Summerhayes.)
Summers, Bertrand S., Port Huron, Mich. Flax-threshing machine. No. 1,327,297; Jan. 6; v. 270; p. 78.
Summers, Bertrand S., Port Huron, Mich. Retting flax. No. 1,360,329; Nov. 30; v. 280; p. 831.
Summers, Caleb E., Hutchinson, Kans. Carbureter device. No. 1,331,856; Feb. 24; v. 271; p. 592.
Summers, Edgar W., Pittsburgh, Pa. Aeroplane-propeller. No. 1,363,692; Dec. 28; v. 281; p. 672.
Summers, Frank E., Memphis, Mo. Receiver for wireless telegraph and telephone circuits. No. 1,338,756; May 4; v. 274; p. 20.
Summers, Gilbert L., Nottingham, England, assignor to Willcox & Gibbs Sewing Machine Co., New York, N. Y. Seam and forming same. No. 1,361,292; Dec. 7; v. 281; p. 62.
Summers, Henry C., Medora, Ill. Button-fastening. No. 1,331,401; Feb. 17; v. 271; p. 484.
Summers, John G., San Diego, Calif. Tire. No. 1,337,289; Apr. 20; v. 273; p. 435.
Summers, Mark L., Hammonton, Calif., assignor to Taylor-Wharton Iron and Steel Company, Highbridge, N. J. Dredge-tumbler. No. 1,352,997; Sept. 14; v. 278; p. 286.
Summers, Otto M., Glasgow, Ky. Shock-absorber. No. 1,335,138; Mar. 30; v. 272; p. 779.
Sumner, Charles M., *et al.* (See Word, John B., assignor.)
Sumner, Henry W., Seattle, Wash. Oil-feed pump for internal-combustion engines. No. 1,338,338; Apr. 27; v. 273; p. 703.
Sumner, Henry W., Seattle, Wash. Fuel-feeding device for oil-engines. No. 1,352,637; Sept. 14; v. 278; p. 214.
Sumner, Henry W., Seattle, Wash. Starting-igniter for internal-combustion engines. No. 1,361,116; Dec. 7; v. 281; p. 27.
Sumner, John, Leyland, assignor to Wood-Milne Limited, Manchester, England. Apparatus for trimming heel-pads, rubber soles and tips for boots and shoes, and other rubber articles. No. 1,333,882; Mar. 16; v. 272; p. 435.
Sumner, John B., Fort William, Ontario, Canada. Paper weight. No. 1,347,599; July 27; v. 276; p. 626.
Sumner, Warren S., Highland Park, Mich. Antiglare attachment. No. 1,358,262; Nov. 9; v. 280; p. 265.
Sumner, William, Liverpool, England. Apparatus for filling explosive material into shells or other receptacles. No. 1,337,490; Apr. 20; v. 273; p. 473.
Sun Company. (See Ballard, Albert M., assignor.)
Sun Shipbuilding Company. (See Nason, Walton H., assignor.)
Sun, Woo L. (See Simpson, William M., assignor.)
Sunbeam Chemical Company, *et al.* (See Block, David J., assignor.)
Sunbeam Chemical Company. (See Cates, Leland C., assignor.)
Sunbeam Motor Car Company Limited. (See Coatalen, L., and Stevens, assignors.)
Sundback, Gideon, Meadville, Pa., assignor to Hookless Fastener Company. Sheet-metal forming and setting machine. No. 1,331,884; Feb. 24; v. 271; p. 597.
Sundback, Gideon, Meadville, Pa., assignor to Hookless Fastener Company. Quick-opening separable fastener. No. 1,340,187; May 18; v. 274; p. 422.
Sundell, Carl J., Chicago, Ill. Convertible high chair. No. 1,334,058; Mar. 16; v. 272; p. 468.
Sunderland, Paul U. (See Rogers, James E., assignor.)
Sunderland, Sam, Keighley, and A. M. Midgley, Sutton-in-Craven, near Keighley, England. Production of reciprocating movements. No. 1,363,624; Dec. 28; v. 281; p. 659.
Sunderlin, Frank R. (See Davis, C. W., and Sunderlin.)
Sunderman, Frederick R., *et al.* (See Guy, Frederick M., assignor.)
Sundh, August, Hastings-upon-Hudson, N. Y. Flexible tubing. No. 1,326,988; Jan. 6; v. 270; p. 21.
Sundh, August, Hastings-upon-Hudson, N. Y. Automatic blocking mechanism for strip-mills. No. 1,326,989; Jan. 6; v. 270; p. 21.
Sundh, August, Hastings-upon-Hudson, N. Y. Strip-blocking mechanism. No. 1,326,990; Jan. 6; v. 270; p. 21.
Sundh, August, Hastings-upon-Hudson, N. Y. Window-cleaning device. No. 1,346,348; July 13; v. 276; p. 263.
Sundh, August, Yonkers, N. Y. Waste-outlet cover for basins, &c. No. 1,362,366; Dec. 14; v. 281; p. 323.
Sundh, August, Hastings-on-Hudson, N. Y., assignor to Sundh Engineering and Machine Company, Philadelphia, Pa. Apparatus for treating metal strips. No. 1,349,444; Aug. 10; v. 277; p. 308.
Sundh Electric Company. (See Larsen, Louis, assignor.)
Sundh Engineering and Machine Company. (See Sundh, August, assignor.)
Sundre, Olaf E., Arlington, Minn. Automatic poultry-sprayer. No. 1,342,776; June 8; v. 275; p. 281.
Sundstrand, Gustaf D., assignor to Rockford Milling Machine Company, Rockford, Ill. Listing and adding machine. No. 1,329,028; Jan. 27; v. 270; p. 530.

Digitized by Google

Alphabetical list of patentees—Continued.

Sundstrand, Gustaf D., assignor to Rockford Tool Company, Rockford, Ill. Relieving attachment for lathes. No. 1,338,757. May 4; v. 274; p. 20.

Sundstrand, Gustaf D., assignor to Rockford Milling Machine Company, Rockford, Ill. Milling-machine. No. 1,352,849; Sept. 14; v. 278; p. 257.

Sundstrand, Gustaf D., assignor to Rockford Tool Company, Rockford, Ill. Tailstock. No. 1,357,362; Nov. 2; v. 280; p. 31.

Sundstrom, Carl, Detroit, Mich., assignor to The Solvay Process Company, Solvay, N. Y. Recovering constituents of value from natural alkaline deposits. No. 1,349,445; Aug. 10; v. 277; p. 308.

Sundstrom, Carl, Syracuse, N. Y., assignor to The Solvay Process Company, Solvay, N. Y. Recovering borax from solutions containing sodium borates. No. 1,349,446; Aug. 10; v. 277; p. 309.

Sundstrom, Carl, Syracuse, N. Y., assignor to The Solvay Process Company, Solvay, N. Y. Obtaining sodium bicarbonate from alkaline waters. No. 1,349,447; Aug. 10; v. 277; p. 309.

Sundstrom, G. E. (See Anderson, Charles A., assignor.) (Reissue.)

Sundt, Andreas, assignor to Brödrene Sundt, Vaerkölmaskinfabrik A/S, Christiania, Norway. Turning-lathes. No. 1,341,946; June 1; v. 275; p. 65.

Sunshine Patent Company. (See Davidson, Ira E., assignor.)

Super, Frank J., assignor of twenty-four and one-half per cent. to W. H. Blevins and fifty-one per cent. to W. J. Milne, Portland, Oreg. Davit. No. 1,336,394; Apr. 6; v. 273; p. 130.

Super-Glass Company, The. (See Shuman, Victor, assignor.)

Superior Machine Company. (See Cooling, Arthur B., assignor.)

Superior Manufacturing Company. (See Woock, H. J., and Woock, assignors.)

Superior Manufacturing Company. (See Woock, Herbert J. and W. R., assignors.)

Superior Tool Company, The. (See Williams, Harry W., assignor.)

Supple, Clare M., Boston, Mass. Stocking-supporter. No. 1,353,671; Sept. 21; v. 278; p. 479.

Surber, Charles G., Richmond, Va. Nut-lock. No. 1,359,287; Nov. 16; v. 280; p. 511.

Suren, Nathan H., Needham, Mass., assignor to The Gamewell Fire-Alarm Telegraph Company, New York, N. Y. Time-controlled mechanism. No. 1,346,858; July 20; v. 276; p. 422.

Surety Tire & Rubber Company. (See Sterns, Edward, assignor.)

Surface Combustion. (See Bone, W. A., Wilson, and McCourt, assignors.)

Surface Combustion Company, The. (See Eddison, William B., assignor.)

Surface, William E., assignor to Faries Manufacturing Co., Decatur, Ill. Shade-holder for electric-light bulbs. No. 1,351,879; Sept. 7; v. 278; p. 33.

Surico, Carmine. (See Cardone, P., Fumagalli, and Surico.)

Surprise, Joseph, New Haven, Conn. Track for sliding doors. No. 1,352,100; Sept. 7; v. 278; p. 75.

Susemihl, Theresa M. (See Teaming, Thomas H., and Susemihl.)

Susi, Dominick M., *et al.* (See Wiseman, Goodwin W., assignor.)

Susol, Paul, assignor of one-third to J. B. Bryant, Newport News, Va. Bottle stopper and seal. No. 1,355,012; Oct. 5; v. 279; p. 112.

Sussis, Bernhard A., assignor of five per cent. to J. A. Freiman, forty-two and one-half per cent. to D. Shwartz, and ten per cent. to A. Korenge, New York, N. Y. Dump-wagon and loading means therefor. No. 1,334,002; Mar. 16; v. 272; p. 458.

Sussiln, Adolph, New Orleans, La. Mail catching and delivering apparatus. No. 1,347,418; July 20; v. 276; p. 533.

Sussman, Julius L., New York, N. Y. Welded tube. No. 1,332,932; Mar. 9; v. 272; p. 196.

Sussman, Samuel J., Brooklyn, N. Y. Photographic developing-machine. No. 1,328,305; Jan. 20; v. 270; p. 365.

Sutcliffe, Edgar R., Leigh, England, assignor to Pure Coal Briquettes Limited, Cardiff, Wales. Block-press. No. 1,335,303; Mar. 30; v. 272; p. 809.

Sutherland, Alexander K., New Britain, assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Quick-break switch. No. 1,341,622; May 25; v. 274; p. 766.

Sutherland, Forrest A. (See Downing, S. J., and Sutherland.)

Sutherland, Forrest A. (See Nevins, J. A. F., and Sutherland.)

Sutherland, Forrest A., assignor to Great Northern Paper Company, Millinocket, Me. Wrapping-machine. No. 1,351,809; Sept 7; v. 278; p. 19.

Sutherland, Frank, Brooklyn, N. Y. Loose-leaf binder. No. 1,342,833; June 8; v. 275; p. 292.

Sutherland, Fred W., Kalamazoo, Mich. Machine for and method of sealing cartons. No. 1,359,546; Nov. 23; v. 280; p. 609.

Sutherland, Leslie T. (See Saunders, H. F., and Sutherland.)

Sutherland, Norman A. (See Schinke, E. C., and Sutherland.)

Sutter, Josiah H., and C. N. Atherton, Wichita, Kans. Crank pin and shaft truing tool. No. 1,344,831; June 29; v. 275; p. 878.

Sutter, Louis. (See Ward, Fred J., assignor.)

Sutter, Roser B. (See Dick, R. H., Wolters, and Sutter.)

Sutter, Roser B., assignor to Zenitherm Company, Newark, N. J. Waterproofed material and making same. No. 1,351,087; Aug. 31; v. 277; p. 808.

Suttill, Albert G., Watertown, assignor to Riverside Boiler Works, Inc., Cambridge, Mass. Boiler and tank spud. No. 1,360,815; Nov. 30; v. 280; p. 927.

Sutton, Birt, Dover, N. J. Direction-indicator for automobiles. No. 1,343,529; June 15; v. 275; p. 492.

Sutton, Francis A. (See Summerbell, William, assignor.)

Sutton, Frank M., San Francisco, Calif. Electric oven. No. 1,336,105; Apr. 6; v. 273; p. 76.

Sutton, Louis D., Libby, Mont. Shock-absorber. No. 1,341,395; May 25; v. 274; p. 723.

Suursalmi, Onni, assignor to Kangas Pappersbruks Aktiebolag, Jyväskyla, Finland. Making lines and watermarks on paper and apparatus therefor. No. 1,329,100; Jan. 27; v. 270; p. 544.

Suyehiro, Kunisuke, Eureka, Utah. Doll-house. No. 1,343,065; June 8; v. 275; p. 338.

Suzuki, Nihei, San Francisco, Calif. Direction-indicator for vehicles. No. 1,338,112; Apr. 27; v. 273; p. 661.

Suzuki, Sosaku, Tokyo, Japan. Combination spoon and fork. No. 1,348,762; Aug. 3; v. 277; p. 121.

Suzuki, Umetaro, Tokyo, Japan. Sodium compound of dioxy - diamino - arseno - benzol - dihydrochlorid. No. 1,330,288; Feb. 10; v. 271; p. 207.

Svaigel, Joseph, Detroit, Mich. Automobile-signal. No. 1,336,795; Apr. 13; v. 273; p. 267.

Svenska Aktiebolaget Gassaccumulator. (See Dalén, Gustaf, assignor.)

Svenska Aktiebolaget Mono. (See Rodhe, Olof, assignor.)

Svenska Aktiebolaget Mono. (See Wener, Nils, assignor.)

Svenska Aktiebolaget Nobel-Diesel. (See Lagersten, Frans A., assignor.)

Svenska Turbinfabriks Aktiebolaget Ljungström. (See Wiberg, Oscar A., assignor.)

Svenson, Albert, Lakeview, N. J. Apparatus for testing pipe-joints. No. 1,354,925; Oct. 5; v. 279; p. 95.

Svenson, Charles W., assignor to The American Hardware Corporation, New Britain, Conn. Free-wheel device. No. 1,330,407; Feb. 10; v. 271; p. 230.

Svenson, Charles W., assignor to American Hardware Corporation, New Britain, Conn. Coaster-brake. No. 1,337,624; Apr. 20; v. 273; p. 498.

Svensson, Olof P., Brooklyn, N. Y. Attachment for tables. No. 1,356,477; Oct. 19; v. 279; p. 491.

Svensson, Eric E., Gottenborg, Sweden. Detent for calculating-machines. No. 1,334,974; Mar. 30; v. 272; p. 747.

Svoboda, Ladimir H., Cleveland, Ohio. Fan. No. 1,357,261; Nov. 2; v. 280; p. 12.

Swackhamer, Jacob C., Niagara Falls, N. Y. Towing devices. No. 1,358,894; Nov. 16; v. 280; p. 438.

Swafford, Edmond O., Oklahoma, Okla. Flash-light for cameras. No. 1,330,149; Feb. 10; v. 271; p. 182.

Swaim, Charles S. (See Nimmo, W. B., and Swaim.)

Swain, Benjamin O., Philadelphia, Pa., and J. S. Timmons, New York, N. Y. Device for reducing the insulating-strips of commutators. No. 1,359,288; Nov. 16; v. 280; p. 511.

Swaine, Percy, Sherbrook, Quebec, Canada. Pen. No. 1,355,013; Oct. 5; v. 279; p. 112.

Swales, Albert B., London, England. Cabinet. No. 1,352,101; Sept. 7; v. 278; p. 75.

Swallender, Swante J. P., Chicago, Ill. Loose-file-card holder. No. 1,348,906; Aug. 10; v. 277; p. 202.

Swallow, Walter, Rock Island, Ill. Electric sign. No 1,338,198; Apr. 27; v. 273; p. 677.

Swan, Alfred, Montclair, N. J., assignor to General Electric Company. Basing incandescent lamps. No. 1,360,152; Nov. 23; v. 280; p. 729.

Swan, Charles, Cleveland, Ohio. Combined leveling and cushioning device for traction-engines. No. 1,348,333; Aug. 3; v. 277; p. 40.

Swann, James E. C., Virginia Beach, Va. Commutation-book. No. 1,353,189; Sept. 21; v. 278; p. 383.

Swan Process Oil Company, The. (See Wheelock, Harold F., assignor.)

Swan, Rolla A., Quincy, Ill. War-billy. No. 1,334,188; Mar. 16; v. 272; p. 492.

Swan, William R., assignor to J. J. Woolverton, South Bend, Ind. Rust-preventing treatment. No. 1,346,473; July 13; v. 276; p. 288.

Swank, Clifford A., Denver, Colo. Word-displaying signaling device for automobile-cars. No. 1,338,047; Apr. 27; v. 273; p. 648.

Swank, Lafe. (See Van Deventer and Swank.)

Swanson, August S., Wayzata, Minn. Driving club or mashie. No. 1,334,189; Mar. 16; v. 272; p. 492.

Swanson, August, Cedar Rapids, Iowa. Step-ladder. No. 1,347,600; July 27; v. 276; p. 626.

Swanson, Axel E., Chicago, Ill. Bottling-machine. No. 1,350,249; Aug. 17; v. 277; p. 537.

Swanson, Carl R., Marshall, Minn. Aeroplane. No. 1,331,221; Feb. 17; v. 271; p. 451.

Swanson, Charles. (See Peterson and Swanson.)

Digitized by Google

Swanson, Charles, Portland, Oreg. Reversible countersink-tool. No. 1,332,777; Mar. 2; v. 272; p. 115.
Swanson, Charles, West Hoboken, N. J. Shoe-lace fastener. No. 1,363,693; Dec. 28; v. 281; p. 672.
Swanson, Charles A., Chicago, Ill. Mower-guard. No. 1,363,288; Dec. 28; v. 281; p. 594.
Swanson, Edward, Sheffield, Ill. Knockdown hen's nest. No. 1,351,308; Aug. 31; v. 277; p. 852.
Swanson, Fred W., Des Moines, Iowa. Combination truck and wagon dump. No. 1,338,708; May 4; v. 274; p. 28.
Swanson, John, Trowbridge, Ill. Marker. No. 1,333,514; Mar. 9; v. 272; p. 305.
Swanson, Harry J., assignor to Detroit Machine Tool Company, Detroit, Mich. Grinder. No. 1,364,006; Dec. 28; v. 281; p. 733.
Swanson, Henry E., Saybrook, Ill. Rail-joint. No. 1,360,697; Nov. 30; v. 280; p. 903.
Swanson, Hjalmar, assignor to The B. F. Cummins Perforator Company, Chicago, Ill. Punching-machine. No. 1,353,292; Sept. 21; v. 278; p. 403.
Swanson, Oscar S., Jamestown, N. Y. Lamp-socket construction. No. 1,336,395; Apr. 6; v. 273; p. 130.
Swanson, Oscar S., Jamestown, N. Y. Lamp-socket construction. No. 1,361,642; Dec. 7; v. 281; p. 133.
Swanson, Peter, Soudan, Minn. Auxiliary car-step. No. 1,353,364; Sept. 21; v. 278; p. 417.
Swanson, Robert L., Red Bluff, Calif. Fluid-transmission mechanism. No. 1,349,924; Aug. 17; v. 277; p. 474.
Swanson, Swan A., Kellettville, Pa. Railway-rail fastening. No. 1,337,851; Apr. 20; v. 273; p. 541.
Swantees, Samuel F., St. Louis, Mo. Cloth fabric. No. 1,341,396; May 25; v. 274; p. 723.
Swanwick, George. (See Park, George I., assignor.)
Swarens, John F., Kansas City, Mo. Air-filter for automatic engines. No. 1,339,726; May 11; v. 274; p. 277.
Swart, Walter G., F. A. Jordan, E. W. Davis, and T. B. Counselman, Duluth, Minn. Magnetic sizing and grading of ore. No. 1,339,300; May 4; v. 274; p. 119.
Swartout, Edgar C., Faulkton, S. D. Twine-treating device. No. 1,334,190; Mar. 16; v. 272; p. 492.
Swartwood, Charles B. (See Swartwood, Charles B., *et al.* (See Swartwood, Charles H., assignor.)
Swartwood, Charles H., Boston, Mass., assignor of one-third to M. Swartwood, Swartwood, and one-third to C. B. Swartwood, Elmira, N. Y. Metallic railway-tie. No. 1,339,301; May 4; v. 274; p. 119.
Swartwood, Miles, *et al.* (See Swartwood, Charles H., assignor.)
Swartwout, Everett W., White Plains, N. Y. Uniflow-engine system. No. 1,333,139; Mar. 9; v. 272; p. 235.
Swartwout, Everett W., White Plains, N. Y. Turbine system. No. 1,333,140; Mar. 9; v. 272; p. 235.
Swartwout, Frank R., Scarsdale, N. Y. Observation apparatus. No. 1,333,192; Mar. 9; v. 272; p. 244.
Swartz, Albert B. (See Ebert, Otto N., assignor.)
Swartz Electric Company. (See Clore, Roy, assignor.)
Swartz Electric Company. (See Myers, Clyde J., assignor.)
Swartz Electric Company. (See Reese, Edward B., assignor.)
Swartz Electric Company. (See Swartz, I. T., and Wallace, assignors.)
Swartz Electric Company. (See Swartz, Ira T., assignor.)
Swartz Electric Company. (See Thornburgh, John G., assignor.)
Swartz, George W., Peoria, Ill. Engine. No. 1,351,544; Aug. 31; v. 277; p. 899.
Swartz, Ira T., assignor to Swartz Electric Company, Indianapolis, Ind. Needle-valve for carbureters. No. 1,335,537; Mar. 30; v. 272; p. 852.
Swartz, Ira T., assignor to Swartz Electric Company, Indianapolis, Ind. Electric power system. No. 1,348,907; Aug. 10; v. 277; p. 202.
Swartz, Ira T., assignor to Swartz Electric Company, Indianapolis, Ind. Electric-circuit making and breaking device. No. 1,357,532; Nov. 2; v. 280; p. 62.
Swartz, Ira T., assignor to Swartz Electric Company, Indianapolis, Ind. Switchboard-support. No. 1,360,247; Nov. 23; v. 280; p. 747.
Swartz, Ira T., assignor to Swartz Electric Company, Indianapolis, Ind. Voltage-controlled governor for internal-combustion engines. No. 1,361,117; Dec. 7; v. 281; p. 27.
Swartz, Ira T., and A. T. Wallace, assignors to Swartz Electric Company, Indianapolis, Ind. Shaft construction for generators. No. 1,335,536; Mar. 30; v. 272; p. 852.
Swartz, Johan, Hagalund, Sweden. Measuring instrument. No. 1,329,729; Feb. 3; v. 271; p. 71.
Swartz, William H., and O. B. Richards, assignors to General Machine Works, York, Pa. Knitting-machine. No. 1,327,122; Jan. 6; v. 270; p. 46.
Swatzell, David N., assignor of one-fourth to B. P. Cox, one-fourth to R. C. Adcock, and one-fourth to W. A. Swatzell, Birmingham, Ala. Motor-driven hair-clipper. No. 1,352,326; Sept. 7; v. 278; p. 118.
Swatzell, W. A., *et al.* (See Swatzell, David N., assignor.)
Swayze, Michael L., Colorado Springs, Colo. Potato-digger and bean-harvester. No. 1,355,014; Oct. 5; v. 279; p. 112.
Sweasey, Frank R. (See Torno, Karl L., assignor.)
Sweat, William C., Everett, Wash. Gear. No. 1,334,003; Mar. 16; v. 272; p. 458.
Swedlund, Erick J., Williston, N. D. Separable cuff-button. No. 1,353,085; Sept. 14; v. 278; p. 303.
Sweely, Burton T. (See Bellamy, H. T., and Sweely.)
Sweeney, Frank H., San Francisco, Calif. Direction-indicator for vehicles. No. 1,352,327; Sept. 7; v. 278; p. 118.
Sweeney, Herbert T., Chester, Pa. Illuminated radiator-thermometer. No. 1,363,540; Dec. 28; v. 281; p. 643.
Sweeney, Howard L., Oakland, Calif. Automatically-actuated oil-burner. No. 1,333,785; Mar. 16; v. 272; p. 417.
Sweeney, Michael G., Scranton, Pa. Furnace-grate. No. 1,361,925; Dec. 14; v. 281; p. 236.
Sweeney, Ulysses G., Fresno, Calif. Tack-holder. No. 1,344,157; June 22; v. 275; p. 680.
Sweet, Alvin H., Los Angeles, Calif. Windshield attachment for auto-vehicles. No. 1,353,552; Sept. 21; v. 278; p. 454.
Sweet, Alvin H., Los Angeles, Calif. Side bumper for vehicles. No. 1,353,553; Sept. 21; v. 278; p. 455.
Sweet, Charles M., assignor to The Gurney Scale Company, Hamilton, Ontario, Canada. Attachment for dial-scales. No. 1,327,450; Jan. 6; v. 270; p. 106.
Sweet, Ernest E., assignor to General Motors Company, Detroit, Mich. Hydrocarbon-motor. No. 1,328,855; Jan. 27; v. 270; p. 498.
Sweet, Ernest E., assignor to Cadillac Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,349,589; Aug. 17; v. 277; p. 410.
Sweet, Frank, assignor to Philip R. Sweet, Buffalo, N. Y. Metal boat. No. 1,358,479; Nov. 9; v. 280; p. 310.
Sweet, Frederick A., Salt Lake City, Utah, and G. G. Jamieson, Oakland, Calif. Coaling-barge. No. 1,344,459; June 22; v. 275; p. 740.
Sweet, Frederick A., Salt Lake City, Utah. Car-wheel. No. 1,344,460; June 22; v. 275; p. 740.
Sweet, Frederick D., Cleveland, Ohio. Apparatus for priming engines. No. 1,350,344; Aug. 24; v. 277; p. 601.
Sweet, Hartford, Brookfield, Ill. Iodin-applicator. No. 1,332,859; Mar. 2; v. 272; p. 130.
Sweet, Hartford, Brookfield, Ill. Wick-doubler. No. 1,345,280; June 29; v. 275; p. 963.
Sweet, Howard J., assignor of one-half to R. N. Porter, Lansing, Mich. Magnetic chuck. No. 1,360,054; Nov. 23; v. 280; p. 709.
Sweet, Menchem D., Alliance, Ohio. Celluloid insulation. No. 1,339,835; May 11; v. 274; p. 298.
Sweet, Melvin A., assignor to Gurney Scale Company, Hamilton, Ontario, Canada. Dial-scale. No. 1,334,472; Mar. 23; v. 272; p. 592.
Sweet, Parker H., Boonton, N. J., assignor to The Barker-Sweet Manufacturing Company, Jamaica, N. Y. Gin or linter saw. No. 1,353,435; Sept. 21; v. 278; p. 431.
Sweet, Philip R. (See Sweet, Frank, assignor.)
Sweetland, Ernest J., Montclair, N. J., assignor, by mesne assignments, to United Filters Corporation. Filter. No. 1,343,182; June 8; v. 275; p. 361.
Sweetland, Ernest J., Montclair, N. J., assignor, by mesne assignments, to United Filters Corporation. Filter. No. 1,344,215; June 22; v. 275; p. 691.
Sweetland, Ernest J., assignor, by mesne assignments, to United Filters Corporation, Montclair, N. J. Filter. No. 1,349,238; Aug. 10; v. 277; p. 268.
Sweetland, Ernest J., Montclair, and C. M. Stanley, Newark, N. J., assignor to United Filters Corporation, Brooklyn, N. Y. Filter-casing. No. 1,337,733; Apr. 20; v. 273; p. 519.
Sweetland, Hugh D., *et al.* (See Crick, Arthur, assignor.)
Sweetser, Emery B., Brooklyn, N. Y. Saltcellar. No. 1,352,701; Sept. 14; v. 278; p. 227.
Sweiven, Martin O., Olivia, Minn. Spring-tire. No. 1,348,522; Aug. 3; v. 277; p. 76.
Sweney, Helene L., Boston, Mass. Drapery-holder. No. 1,341,684; June 1; v. 275; p. 14.
Swenington, Louis, *et al.* (See Woodward, William H., assignor.)
Swensen, Alfred C., assignor to The Cable Company, Chicago, Ill. Air-pump. No. 1,336,396; Apr. 6; v. 273; p. 131.
Swenson, Albin, New York, N. Y. Automatic brake. No. 1,342,699; June 8; v. 275; p. 265.
Swenson, Axel, Lyndhurst, N. J. Receptacle-cover. No. 1,347,419. July 20; v. 276; p. 534.
Swenson, Hjalmer A., Brooklyn, N. Y. Lock. No. 1,341,602; May 25; v. 274; p. 762.
Swenson, Martin, Chicago, Ill. Calculator. No. 1,336,990; Apr. 13; v. 273; p. 304.
Swerer, Millard F., Jamestown, Calif. Receptacle for pneumatic-tire tubes. No. 1,337,178; Apr. 13; v. 273; p. 340.
Swern, Perry W., Oak Park, Ill. Apparatus for moving wheeled vehicles. No. 1,363,442; Dec. 28; v. 281; p. 623.
Sweterlitsch, Louis H., Groveton, Pa. Attachment for suitcases. No. 1,329,937; Feb. 3; v. 271; p. 111.
Swett, Charles E., Brookline, Mass., assignor to Arthur D. Little, Incorporated, Cambridge, Mass. Forming shaped articles from precipitated skin-like compounds. No. 1,348,459; Aug. 3; v. 277; p. 64.

Digitized by Google

Swett, Charles E., Boston, assignor of one half to H. H. Beckwith, Brookline, Mass. Shoe-stiffener. No. 1,348,968; Aug. 10; v. 277; p. 214.

Sweyer, Hervey J., Circleville, Ohio. Vehicle safety baby-holder for use with motor-vehicles, buggies, carriages, &c. No. 1,348,334; Aug. 3; v. 277; p. 40.

Swick, Clyde E., San Francisco, Calif., assignor to Hawley Pulp and Paper Company. Delivery mechanism. No. 1,354,144; Sept. 28; v. 278; p. 618.

Swick, Clyde E., San Francisco, Calif., assignor to Hawley Pulp and Paper Company. Marking device. No. 1,356,667; Oct. 26; v. 279; p. 576.

Swickard, Dan B., Galva, Ill. Pliers. No. 1,345,035; June 29; v. 275; p. 916.

Swickard, Frank, assignor of ninety-nine per cent. to L. J. Swickard, Fort Bridger, Wyo. Flytrap. No. 1,353,672; Sept. 21; v. 278; p. 480.

Swickard, Laura J. (See Swickard, Frank, assignor.)

Swiegle, Charles H., Spokane, Wash. Automatic stop for talking-machines. No. 1,330,751; Feb. 10; v. 271; p. 294.

Swift and Company. (See Richardson, William D., assignor.)

Swift and Company. (See Swift, Gustavus F., Jr., assignor.)

Swift, George W., Jr., Bordentown, N. J. Mechanism for making open-face envelops. No. 1,337,734; Apr. 20; v. 273; p. 519.

Swift, George W., Jr., Bordentown, N. J. Making open-face envelops. No. 1,337,735; Apr. 20; v. 273; p. 520.

Swift, George W., Jr., Bordentown, N. J. Variable automatic control mechanism. No. 1,343,487; June 15; v. 275; p. 483.

Swift, George W., Jr., Bordentown, N. J. Creasing and slotting machine. No. 1,353,086; Sept. 14; v. 278; p. 303.

Swift, George W., Jr., Bordentown, N. J. Feed mechanism for slotting and creasing machines. No. 1,353,087; Sept. 14; v. 278; p. 303.

Swift, George W., Jr., Bordentown, N. J. Feed mechanism. No. 1,353,088; Sept. 14; v. 278; p. 303.

Swift, Gustavus F., Jr., assignor to Swift and Company, Chicago, Ill. Refrigerator-car. No. 1,363,374; Dec. 28; v. 281; p. 610.

Swift, Herbert D., and A. L. Scott, Yonkers, N. Y., assignors to Swift-Scott Corporation. Machinery for extruding metal tubes. No. 1,331,169; Feb. 17; v. 271; p. 442.

Swift, Lewis B., assignor to Taylor Instrument Companies, Rochester, N. Y. Thermometer. No. 1,356,175; Oct. 19; v. 279; p. 433.

Swift, Oliver, Minneapolis, Minn. Bag-dispensing cabinet. No. 1,362,058; Dec. 14; v. 281; p. 262.

Swift-Scott Corporation. (See Swift, H. D., and Scott, assignors.)

Swift, Willard E., Worcester, assignor to United States Envelope Company, Springfield, Mass. Machine for inclosing flat articles. No. 1,333,044; Mar. 9; v. 272; p. 217.

Swift, Willard E., Worcester, assignor to United States Envelope Company, Springfield, Mass. Dispensing-cabinet for paper drinking-cups. No. 1,333,045; Mar. 9; v. 272; p. 217.

Swift, Willard E., Worcester, assignor to United States Envelope Company, Springfield, Mass. Mailing sheet or blank. No. 1,343,419; June 15; v. 275; p. 470.

Swift, William S., New York, N. Y. Skate-scabbard attachment. No. 1,346,568; July 13; v. 276; p. 307.

Swindall, Albert J. (See Connell, H. G., and Swindall.)

Swinehart, James A., Akron, Ohio. Making rubber tires. No. 1,326,991; Jan. 6; v. 270; p. 21.

Swinehart, James A., Akron, Ohio. Making elastic vehicle-tires. No. 1,349,390; Aug. 10; v. 277; p. 298.

Swing, Alfred J., Cincinnati, Ohio. Tone-arm apparatus for talking-machine. No. 1,349,636; Aug. 17; v. 277; p. 419.

Swing, Alfred J., and A. S. King, Cincinnati, Ohio. Talking-machine apparatus. No. 1,355,711; Oct. 12; v. 279; p. 301.

Swinnerton, Bertram B., Beaver, Pa., assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y. Ware-support for ceramic firing. No. 1,336,762; Apr. 13; v. 273; p. 260.

Swint, Wendell R. (See Bryan and Swint.)

Swisher, R. D., Manufacturing Company. (See Folger and Julien, assignors.)

Swisher, R. D., Manufacturing Company. (See Folger, H. S., and Ross, assignors.)

Swisher, Samuel C., San Diego, Calif., assignor of one-half to N. Read, Denver, Colo. Wire and cable clamp. No. 1,361,643; Dec. 7; v. 281; p. 134.

Swiss Manufacturing Company. (See Lutolf, Josef, assignor.)

Switzyk, John, Meota, Saskatchewan, Canada. Cattle-yoke. No. 1,346,278; July 13; v. 276; p. 260.

Switzyk, John, Meota, Saskatchewan, Canada. Dancing doll. No. 1,360,470; Nov. 30; v. 280; p. 859.

Switzer, Albert, Grenfell, Saskatchewan, Canada. Grain-car door. No. 1,341,397; May 25; v. 274; p. 723.

Switzer, Judson, Portland, Oreg. Gage. No. 1,344,569; June 22; v. 275; p. 762.

Switzer, William T., Birmingham, Ala. Adjustable headrest for barbers' chairs. No. 1,349,637; Aug. 17; v. 277; p. 419.

Swoboda, Adolph R., Newark, N. J., assignor to Western Electric Company, Incorporated. Telegraph system. No. 1,334,122; Mar. 16; v. 272; p. 481.

Swoboda, Adolph R., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,362,648; Dec. 21; v. 281; p. 429.

Swope, Leon W., assignor of one-half to M. C. Kelly, Vincennes, Ind. Headlight. No. 1,341,947; June 1; v. 275; p. 66.

Swordling, Severn M. (See Kirkpatrick, Swordling, and Heath.)

Swyers, Brice P., assignor to Motors Lock Company of America, Pittsburgh, Pa. Lock-switch. No. 1,339,302; May 4; v. 274; p. 120.

Swygert, George S., Columbia, S. C. Filing-gage. No. 1,353,089; Sept. 14; v. 278; p. 304.

Swynghedauw, Paul E. G., Charenton, France. Machine for breaking, softening, and scutching fibrous stock. No. 1,341,603; May 25; v. 274; p. 763.

Sybert, Norman L., Kildare, Okla. Spool for oil-well derricks. No. 1,342,653; June 8; v. 275; p. 255.

Sydeman, Abraham. (See Thoma, Andrew, assignor.)

Sykes, Adrian F., New Barnet, and J. T. MacGregor-Morris, Hampstead, London, England. Means for detecting and locating subaqueous sounds. No. 1,360,330; Nov. 30; v. 280; p. 831.

Sykes, George, assignor to Sykes Standard Fruit Wrap Company, Penryn, Calif. Packing device. No. 1,327,888; Jan. 13; v. 270; p. 250.

Sykes, Leonard, Fort Wayne, Ind. Electric regulator. No. 1,327,642; Jan. 13; v. 270; p. 208.

Sykes, Lewis, Camden, N. J., assignor to Keller Pneumatic Tool Company, Grand Haven, Mich. Throttle-valve handle for pneumatic drills, holders-on, and other appliances. No. 1,339,426; May 11; v. 274; p. 219.

Sykes, Lewis, Camden, N. J., assignor to Keller Pneumatic Tool Company, Grand Haven, Mich. Connecting means for pistons and piston-rods. No. 1,339,427; May 11; v. 274; 219.

Sykes Standard Fruit Wrap Company. (See Sykes, George, assignor.)

Sykes, Wilfred. (See Lamme, B. G., and Sykes.)

Sylvain, George A., Ottawa, Ontario, Canada. Key. No. 1,350,749; Aug. 24; v. 277; p. 682.

Sylvester, Edwin S., West New Brighton, N. Y., assignor to Rubber Regenerating Company. Pneumatic cushion. No. 1,332,933; Mar. 9; v. 272; p. 196.

Symes, Henry, Dunedin, New Zealand. Telephone set. No. 1,327,500; Jan. 6; v. 270; p. 115.

Symes, Henry, Dunedin, New Zealand. Automatic telephone system. No. 1,353,673; Sept. 21; v. 278; p. 480.

Symonds, Clarence M., San Anselmo, assignor to American Can Company, San Francisco, Calif. Apparatus for cutting and applying ring-liners to the flanges of can ends. No. 1,328,020; Jan. 13; v. 270; p. 274.

Synck, Henry, and B. B. Rollman, assignors to New Idea Spreader Co., Coldwater, Ohio. Mower. No. 1,358,401; Nov. 9; v. 280; p. 294.

Syndicaat Graamans Patent. (See Graamans, Christian A. R., assignor.)

Synohubyk, Semen, Edmonton, Alberta, Canada. Comb. No. 1,341,158; May 25; v. 274; p. 677.

Synstelien, Bernhard J., Fonda, Iowa. Dumping-bed device. No. 1,330,015; Feb. 3; v. 271; p. 125.

Synstelien, Bernhard J., Fonda, Iowa. Combined locking and lifting device for truck-bodies. No. 1,342,472; June 8; v. 275; p. 221.

Synthetic Hydrocarbon Company. (See Rittman, Walter F., assignor.)

Synthetic Hydrocarbon Company. (See Stutz Charles C., assignor.)

Synthetic Hydro-Carbon Company. (See Whitaker, M. C., and Rittman, assignors.)

Synthetic Hydro-Carbon Company. (See Whitaker and Rittman, assignors.)

Sypho-Chemical Sprinkler Corporation. (See Hamilton, John R., assignor.)

Syracuse Chilled Plow Company. (See Lee, William H., assignor.)

Szako, John, Milwaukee, Wis. Saw-filling clamp. No. 1,342,236; June 1; v. 275; p. 123.

Szapiak, Max, St. Michael, Pa. Railway-tie. No. 1,361,414; Dec. 7; v. 281; p. 87.

Szarat, Joseph S., Chicago, Ill. Street-car transfer. No. 1,355,626; Oct. 12; v. 279; p. 284.

Szarek, Joseph, Livermore, Pa. Rail-joint. No. 1,342,006; June 1; v. 275; p. 77.

Szczurek, Joe, Chicago, Ill. Air-opener for doors. No. 1,338,882; May 4; v. 274; p. 43.

Szczurek, Joe, Chicago Heights, Ill. Pin-protector. No. 1,356,668; Oct. 26; v. 279; p. 576.

Szefczyk, Joseph, Passaic, N. J. Adjustable window-shade bracket. No. 1,356,237; Oct. 19; v. 279; p. 445.

Szekely, Ernest, assignor to American Blower Company, Detroit, Mich. Manometer. No. 1,352,038; Sept. 7; v. 278; p. 63.

Szepe, Joseph J., Pittsburgh, Pa. Window-silencer. No. 1,329,938; Feb. 3; v. 271; p. 111.

Szidlauskas, Julius, Chicago, Ill. Plow. No. 1,359,630; Nov. 23; v. 280; p. 625.

Digitized by Google

Szlányi, William, assignor of one-fourth to M. Schmideck and one-half to H. Dohrmann, New York, N. Y. Permanent-hair-waving device. No. 1,334,719; Mar. 23; v. 272; p. 638.
Sztankay, Aba v., assignor, by mesne assignments, to The Chemical Foundation, Inc., Debreczen, Hungary. Preparing combinations of phenolphthalein with carbonates of alkali metal. No. 1,357,482; Nov. 2; v. 280; p. 53.
Sztary, Joseph, and L. Kovács, Bellaire, Ohio. Direction-signal. No. 1,347,420; July 20; v. 276; p. 534.
Szuba, Stanislaw, Elizabeth, N. J. Soap-holder. No. 1,337,852; Apr. 20; v. 273; p. 541.
Szumkowski, Leonard S., assignor to Ursus Motor Company, Chicago, Ill. Automobile tractor. No. 1,350,889; Aug. 24; v. 277; p. 707.
Szyperski, Edward V., Detroit, Mich. Douche-nozzle. No. 1,338,710; May 4; v. 274; p. 12.
Tabbot, Arthur C., Atlanta, Ga. Automatic circuit-breaker for motors. No. 1,332,696; Mar. 2; v. 272; p. 99.
Taber, George H., Binghamton, N. Y. Spark-gap-controlling device. No. 1,337,853; Apr. 20; v. 273; p. 542.
Taber, George H., assignor to Emco Manufacturing Company, Inc., Binghamton, N. Y. Hand-operating device for muffler cut-outs. No. 1,340,802; May 18; v. 274; p. 537.
Taber, George H., assignor to Emco Manufacturing Company, Inc., Binghamton, N. Y. Device for refinishing axles, crank-shafts, &c. No. 1,345,809; July 6; v. 276; p. 95.
Taber, George H., assignor to Emco Manufacturing Company, Inc., Binghamton, N. Y. Muffler. No. 1,353,863; Sept. 28; v. 278; p. 560.
Taber, George H., Jr., Tulsa, Okla., assignor to Mexican Sinclair Petroleum Corporation, New York, N. Y. Manufacture of gasolene. No. 1,363,487; Dec. 28; v. 281; p. 682.
Taber, George M., Lowell, Mass. Collapsible top for vehicles. No. 1,334,568; Mar. 23; v. 272; p. 611.
Taber Pump Company. (See Traudt, William F., assignor.)
Taberski, Frank A. (See Kosinski, Stanislaw, assignor.)
Tabler, Harry C. (See Dougherty, J. M., and Tabler.)
Tabler, John H., Washington, D. C. Belt-buckle. No. 1,357,483; Nov. 2; v. 280; p. 53.
Tabor, Edward P., assignor of one-fourth to James J. Egan, Worcester, Mass. Rail-grinder. No. 1,340,991; May 25; v. 274; p. 645.
Tabor, Jesse W., Oakland, Calif. Windshield. No. 1,362,759; Dec. 21; v. 281; p. 451.
Tabor Manufacturing Company, The. (See Lewis, Wilfred, assignor.
Tabor, Thomas H., Ellijay, Ga. Trap. No. 1,334,418; Mar. 23; v. 272; p. 582.
Tabulating Machine Company, The. (See Knistrom, August, assignor.)
Tabulating Machine Company, The. (See Lake, Clair D., assignor.)
Tackabury, George W., *et al.* (See Baker, Elbridge, assignor.)
Tackett, William A., Sherman, Tex. Fraud-preventing means for commercial papers. No. 1,355,286; Oct. 12; v. 279; p. 219.
Tadakuma, Seizi, Los Angeles, Calif. Snap-fastener for shoes. No. 1,343,942; June 22; v. 275; p. 639.
Taffee, Leo H., assignor of one-half to A. E. Johnson, Hastings, Mich. Pumping-jack. No. 1,334,328; Mar. 23; v. 272; p. 565.
Taft, Frank, Montclair, N. J. Musical notation. No. 1,356,416; Oct. 19; v. 279; p. 480.
Taft, John A., assignor to Reagan Bale Company, San Antonio, Tex. Round-bale cotton-press. No. 1,333,351; Mar. 9; v. 272; p. 275.
Taft, John H. (See Ailes, Adrian S., assignor.)
Taft-Peirce Manufacturing Company, The. (See Bryant, Elmer J., assignor.)
Taft-Peirce Manufacturing Company, The. (See Simmons, Frank L., assignor.)
Taft, Robert C., Moline, Ill. Car-underframe. No. 1,340,576; May 18; v. 274; p. 495.
Taft, Walter E., Providence, R. I., assignor to The Associate Company, Boston, Mass. Spark-plug for internal-combustion engines. No. 1,328,463; Jan. 20; v. 270; p. 395.
Taggart, Dawson M., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,330,221; Feb. 10; v. 271; p. 195.
Taggart, Dawson M., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,355,926; Oct. 19; v. 279; p. 383.
Taggart, Dawson M., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,355,927; Oct. 19; v. 279; p. 383.
Taggart, George H., New York, N. Y. Automatic stop for phonographs. No. 1,327,501; Jan. 6; v. 270; p. 116.
Taggart, W. H., *et al.* (See Garrett, Myers A., assignor.)
Taggesell, Richard, Buffalo, assignor to National Aniline & Chemical Company, Inc., New York, N. Y. Azo dyes and making same. No. 1,327,688; Jan. 13; v. 270; p. 213.
Tagliabue, Charles J., Manufacturing Co. (See Gronbech, Christian E. A., assignor.)
Tagliabue, Charles J., Manufacturing Co. (See Milker, Herbert P., assignor.)
Tagliabue, Charles J., Manufacturing Co. (See Milker, Herbert P., and Gronbech, assignors.)
Tagliabue, Charles J., Manufacturing Co. (See Roesch, Alfred, assignor.)
Tagliabue, Charles J., Manufacturing Co. (See Schneider, Ralph F., assignor.)
Taillefer, Joseph H., Rigaud, Quebec, Canada. Lock for railway-car-vestibule gates. No. 1,358,036; Nov. 6; v. 280; p. 221.
Tainter, Charles R. (See Lenholt, John E., assignor.)
Tainton, Urlyn C., Doornfontein, Johannesburg, Transvaal, South Africa. Electrolytic cell. No. 1,334,419; Mar. 23; v. 272; p. 583.
Tait, Alfred D., Evanston, Ill. Dumping-truck. No. 1,344,100; June 22; v. 275; p. 669.
Tait, Godfrey M. S., assignor to American Pasteurizer Company, Inc., Washington, D. C. Means for capping or closing bottles and other containers. No. 1,363,824; Dec. 28; v. 281; p. 698.
Tait, Wilfrid. (See Young, Robert P., assignor.)
Takacs, Joseph, Westville, Ill. Rail-joint. No. 1,348,067; July 27; v. 276; p. 720.
Takala, Emil, Leadville, Colo. Faucet. No. 1,354,522; Oct. 5; v. 279; p. 15.
Takano, Kiyoshi, Honolulu, Hawaii. Saw. No. 1,351,499; Aug. 31; v. 277; p. 890.
Takato, Tomokichi, *et al.* (See Toda, Tomokichi, assignor.)
Talbert, Charles R., Detroit, Mich. Window-locking device. No. 1,338,339; Apr. 27; v. 273; p. 704.
Talbert, Edgar H. (See Baum, C., and Talbert.)
Talbert, George M., and H. Davis, Los Angeles, Calif. Insect-exterminator. No. 1,361,293; Dec. 7; v. 281; p. 62.
Talbert, Louis B., Detroit, Mich., assignor of one-half to H. W. Soper, Walkerville, Ontario, Canada. Power-transmission mechanism. No. 1,360,597; Nov. 30; v. 280; p. 884.
Talbot, Adjutor L. P., Montreal, Quebec, Canada. Means to propel boats or the like. No. 1,340,920; May 25; v. 274; p. 630.
Talbot, Edna E. (See Talbot, James A., assignor.)
Talbot, Ernest, Lowestoft, England. Fishing-float. No. 1,350,530; Aug. 24; v. 277; p. 639.
Talbot, Ernest, and N. Campbell, Seattle, Wash. Shingle-bolt-sawing machine. No. 1,362,576; Dec. 14; v. 281; p. 363.
Talbot, George H., Newtonville, Mass. Molding-machine. No. 1,349,017; Aug. 10; v. 277; p. 223.
Talbot, James A., assignor to E. E. Talbot, Walla Walla, Wash. Toy gun. No. 1,342,700; June 8; v. 275; p. 265.
Talbot, John W., Chicago, Ill. Means for forming compressed objects. No. 1,348,669; Aug. 3; v. 277; p. 105.
Talbott, Edward J., *et al.*, trustees. (See Geoghegan, Edward A., assignor.)
Talbott, Willard, Spokane, Wash. Railway-tie. No. 1,354,858; Oct. 5; v. 279; p. 82.
Taliaferro, James W, Seattle, Wash. Dental articulator. No. 1,354,454; Sept. 28; v. 278; p. 680.
Taliaferro, John C., Baltimore, Md., and I. F. Warme, assignors to Continental Can Company, Incorporated, Syracuse, N. Y. Gang filling and closing machine. No. 1,346,613; July 13; v. 276; p. 315.
Taliaferro, John C., D. P. Robinson, and J. Coyle, Baltimore, Md., assignors to Continental Can Company, Incorporated, Syracuse, N. Y. Conveying and timing apparatus for timing and delivering articles. No. 1,355,184; Oct. 12; v. 279; p. 199.
Taliaferro, John J. (See Kronquest, A. L., and Taliaferro.)
Taliaferro, Thomas L., Chicago, Ill. Closure for jelly-glasses or the like. No. 1,343,013; June 8; v. 275; p. 328.
Tallantyre, John M., New Brighton, England. Closure for collapsible capsules. No. 1,361,199; Dec. 7; v. 281; p. 43.
Talley, John E., and J. W. Thompson, Philadelphia, Pa. Display apparatus. No. 1,332,081; Feb. 24; v. 271; p. 633.
Talley, John E., and J. W. Thompson, Philadelphia, Pa. Display apparatus. No. 1,334,817; Mar. 23; v. 272; p. 657.
Talley, Randal E., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Bevel-gear. No. 1,341,685; June 1; v. 275; p. 14.
Talley, Randal E., Irwin, assignor to The George J. Hagan Company, Pittsburgh, Pa. Heat treatment. No. 1,362,367; Dec. 14; v. 281; p. 323.
Talley, Randal E., Irwin, assignor to The George J. Hagan Company, Pittsburgh, Pa. Heat treatment. No. 1,362,368; Dec. 14; v. 281; p. 323.
Talley, Randal E., Irwin, assignor to George J. Hagan Company, Pittsburgh, Pa. Furnace. No. 1,362,369; Dec. 14; v. 281; p. 323.

Digitized by Google

Tallman, Albert R., Nashville, Tenn. Gas-cock. No. 1,343,530; June 15; v. 275; p. 492.
Tallman, Charles M., Delavan, Wis. Pipe-cleaner. No. 1,347,304; July 20; v. 276; p. 511.
Talion, Robert, Apulia, N. Y. Holdback. No. 1,342,724; June 8; v. 275; p. 270.
Tally, Carl E., Kopperl, Tex. Railway-switch-operating mechanism. No. 1,350,949; Aug. 24; v. 277; p. 719.
Talmage, John G., Cleveland, Ohio. Method of and apparatus for distributing lubricating-oil under steam-pressure. No. 1,337,179; Apr. 13; v. 273; p. 340.
Tilos, Janos, Akron, Ohio. Life-saving suit. No. 1,350,950; Aug. 24; v. 277; p. 719.
Tambach, Rudolf, assignor, by mesne assignments, to The Chemical Foundation, Inc., Ludwigshafen-on-the-Rhine, Germany. Producing tannate-lime compound difficultly soluble in dilute acid. No. 1,352,768; Sept. 14; v. 278; p. 241.
Tamburello, Benedetto, New York, N. Y. Fastening means for demountable rims. No. 1,336,934; Apr. 13; v. 273; p. 294.
Tamburello, Benedetto, New York, N. Y. Demountable rim. No. 1,344,662; June 29; v. 275; p. 845.
Tamburini, Matteo, Paterson, N. J. Loom-clock. No. 1,343,988; June 22; v. 275; p. 648.
Tamietti, Peter V., Monrovia, Calif. Signal for vehicles. No. 1,336,106; Apr. 6; v. 273; p. 76.
Tamm, Alfred M., and J. Tennessen, Jr., Brillion, Wis. Blower-pipe, wind-break, and silage-distributer. No. 1,353,674; Sept. 21; v. 278; p. 480.
Tampier, René J. C., Boulogne-sur-Seine, France. Mechanically-driven feed device for gasolene-motors. No. 1,363,694; Dec. 28; v. 281; p. 672.
Tamura, Shinkichi, Kobe, and M. Watanabe, Tokyo, Japan; said Watanabe assignor to said Tamura. Motor-car of small type. No. 1,328,909; Jan. 27; v. 270; p. 508.
Tamura, Shinkichi, Kobe, and M. Watanabe, Tokyo, Japan, said Watanabe assignor to said Tamura. Apparatus for change speed of motor-cars. No. 1,348,251; Aug. 3; v. 277; p. 24.
Tanaka, Arataro, Regina, Saskatchewan, Canada. Direction-indicator. No. 1,361,415; Dec. 7; v. 281; p. 87.
Tanaki, Tomoaki, Los Angeles, Calif. Automobile-signal. No. 1,356,839; Oct. 26; v. 279; p. 609.
Tanaka, Yataro, assignor to The Naniwa Grease Kabushiki-Kaisha, Osaka, Japan. Transformer-grease. No. 1,360,153; Nov. 23; v. 280; p. 729.
Tandy, John, Butte, Mont. Damper. No. 1,361,782; Dec. 7; v. 281; p. 160.
Taneyhill, John, St. Louis, Mo. Airplane. No. 1,331,402; Feb. 17; v. 271; p. 484.
Tangerman, William J., Hammond, Ind. Tank-car anchorage. No. 1,340,188; May 18; v. 274; p. 422.
Tanguay, Joseph, Quebec, Quebec, Canada. Shoe. No. 1,362,970; Dec. 21; v. 281; p. 491.
Tangwall, Nels P., Duluth, Minn. Portable shears. No. 1,342,473; June 8; v. 275; p. 221.
Tankins, Sacramenta G., Atlantic City, N. J. Comb. No. 1,339,632; May 11; v. 274; p. 259.
Tannehill, Arthur L. (See Copthorne, H. N., and Tannehill.)
Tanner, Albert S., Mason City, Iowa. Block-mold. No. 1,355,185; Oct. 12; v. 279; p. 199.
Tanner, De Witt C., Glen Ridge, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. No. 1,332,961; Mar. 9; v. 272; p. 202.
Tanner Engineering Company. (See Tanner, Harry L., assignor.)
Tanner, Harry L., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Damping means for gyroscopic compasses. No. 1,330,501; Feb. 10; v. 271; p. 247.
Tanner, Harry L., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Electrical position-indicator. No. 1,332,312; Mar. 2; v. 272; p. 26.
Tanner, Harry L., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Gyroscopic navigational apparatus. No. 1,343,188; June 8; v. 275; p. 362.
Tanner, Harry L., assignor, by mesne assignments, to Tanner Engineering Company, Inc., Brooklyn, N. Y. Telemetric device. No. 1,350,345; Aug. 24; v. 277; p. 602.
Tanzey, William J., assignor, by mesne assignments, to Frederick C. Mathews Company, Detroit, Mich. Bottle-tag. No. 1,350,890; Aug. 24; v. 277; p. 707.
Taplex Corporation. (See Fritzsche, George H., assignor.)
Taprell, Loomis & Company. (See Blyth, John, assignor.)
Taranto, John, Waltham, Mass., assignor to Draper Corporation, Hopedale, Mass. Shuttle-feeler for looms. No. 1,341,026; May 25; v. 274; p. 651.
Taraseviczia, Joseph. (See Petrauskas, William, assignor.)
Tarbell, H. J., *et al.* (See Bragdon, George W., assignor.)
Tarbell, Leonard F., Dayton, N. Y. Crutch. No. 1,332,642; Mar. 2; v. 272; p. 90.
Tarbell, P. H., *et al.* (See Bragdon, George W., assignor.)
Tarble, Van Austin, Martinsville, Ill. Wrench. No. 1,333,002; Mar. 9; v. 272; p. 210.
Tarbox, John P., Garden City, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Convertible multiplane. No. 1,336,406; Apr. 6; v. 273; p. 132.
Tarbutton, Ralph P., Lima, Ohio. Automatic reversible driving-chuck. No. 1,341,085; May 25; v. 274; p. 663.
Tarkington, Harry K., Connersville, Ind. Curtain-fastener. No. 1,338,883; May 4; v. 274; p. 48.
Tarn, Thomas R., Brooklyn, N. Y. Combined steering and handling system for tow-boats and their vessels. No. 1,327,643; Jan. 13; v. 270; p. 204.
Tarn, Thomas R., Brooklyn, N. Y. Screw-propelled chambered-stern towboat. No. 1,346,279; July 13; v. 276; p. 250.
Tarr, Frank J. (See McCoy, H. E., and Tarr.)
Tarrant, Reuben W., London, England. Railway electric track-circuit system. No. 1,345,646; July 6; v. 276; p. 62.
Tarrant, Roy C. (See Anderegg, George, assignor.)
Tarrant, Walter G., Byfleet, England. Aeroplane-fuselage. No. 1,329,682; Feb. 3; v. 271; p. 63.
Tarras, Harry M., assignor of one-half to R. J. Gaskin, Toronto, Ontario, Canada. Refrigerator. No. 1,337,625; Apr. 20; v. 273; p. 498.
Tartrais, Eugène H., Maisons-Laffitte, France. Atomiser for liquid-fuel engines. No. 1,327,744; Jan. 13; v. 270; p. 223.
Tartrais, Eugène H., Maisons-Laffitte, France. Two-stroke explosion-engine fed with liquid fuel. No. 1,354,786; Oct. 5; v. 279; p. 68.
Tarwater, Lawson. (See O'Connor, J. B., and Tarwater.)
Tasman, George, Brooklyn, N. Y. Automobile-seat. No. 1,357,743; Nov. 2; v. 280; p. 103.
Tassie, Edward, South Hackney, London, England. Shutter for cinematograph-machines and the like. No. 1,338,596; Apr. 27; v. 273; p. 751.
Tatar, Frank, New York, N. Y. Shock-absorber. No. 1,331,885; Feb. 24; v. 271; p. 597.
Tate, Earl H., Los Angeles, Calif. Liquid-fuel burner. No. 1,340,803; May 18; v. 274; p. 537.
Tate, Edward H., Malden, Mass., assignor to Tate Manufacturing Company, Inc., Boston, Mass. Dust-mop. No. 1,330,502; Feb. 10; v. 271; p. 248.
Tate, John C., Oakland, Calif. Absorbing and purifying composition. No. 1,346,349; July 13; v. 276; p. 264.
Tate, John C., Oakland, Calif. Gas-burning heater. No. 1,349,862; Aug. 17; v. 277; p. 463.
Tate-Jones & Co. (See Buell, William C., Jr., assignor.)
Tate-Jones & Company. (See Trinks, Charles L. W., assignor.)
Tate, McGarvey E. and R. M., Somerset, Ky Door-check. No. 1,354,079; Sept. 28; v. 278; p. 604.
Tate Manufacturing Company. (See Tate, Edward H., assignor.)
Tate, Robert M. (See Tate, McGarvey E. and R. M.)
Tate, Samuel G., assignor to Union Special Machine Company, Chicago, Ill. Seam. No. 1,353,554; Sept. 21; v. 278; p. 455.
Tate, William R. (See Greenwood, H. C., and Tate.)
Tatro, Adelor E., Everett, Mass. Pipe-fitting. No. 1,352,102; Sept. 7; v. 278; p. 75.
Tattu, Radu, Brooklyn, N. Y. Corner-joint for bedsteads and the like. No. 1,337,626; Apr. 20; v. 273; p. 498.
Tattu, Radu, Brooklyn, N. Y. Corner for bedsteads. No. 1,337,627; Apr. 20; v. 273; p. 499.
Tatum, George M., Media, Pa. Rubber ball. No. 1,346,991; July 20; v. 276; p. 450.
Tatum, Ira E., Greenville, Miss. Clamp. No. 1,331,292; Feb. 17; v. 271; p. 464.
Tatum, James W., assignor to Durham Novelty Company, Durham, N. C. Window-shade. No. 1,355,273; Oct. 12; v. 279; p. 217.
Tatum, Samuel C., Company, The. (See Dom, Alexander, assignor.)
Taub, Leo, Jersey City, N. J. Strainer. No. 1,357,744; Nov. 2; v. 280; p. 103.
Tausch, Joseph H., Chicago Ridge, Ill., assignor to G. Gorton, Racine, Wis. Fence-machine. No. 1,351,810; Sept. 7; v. 278; p. 19.
Taussig, Gottlieb, New York, and C. Wagenfohr, Brooklyn, N. Y. Educational toy. No. 1,340,304; May 18; v. 274; p. 443.
Taussig, Leo, New York, N. J. Spring and axle coupling for wheeled vehicles. No. 1,356,669; Oct. 26; v. 279; p. 576.
Taussig, Oskar, Vienna, Austria. Crane or similar lifting device. No. 1,327,181; Jan. 6; v. 270; p. 57.
Tave, Samuel, New York, N. Y. Cover and fastening means therefor. No. 1,335,206; Mar. 30; v. 272; p. 791.
Tayler, W. S., Company, The. (See Reynolds, Morley P., assignor.)
Taylor, Albert E., *et al.* (See Cockburn, D., and MacNicoll, assignors.)
Taylor, Albert J., Lamasco, Tex. Button-fastener. No. 1,339,234; May 4; v. 274; p. 108.
Taylor, Albertis C., assignor to The Taylor Welder Company, Warren, Ohio. Machine for heating rivets, &c. No. 1,354,859; Oct. 5; v. 279; p. 82.
Taylor, Alexander, & Co. (See Rodgers, Martin, assignor.)
Taylor, Alfred, and P. W. Gray, York, England. Range keeping and transmitting instruments. No. 1,357,659; Nov. 2; v. 280; p. 86.
Taylor, Arlen C., Clay Center, Kans. Vacuum water-circulator. No. 1,349,638; Aug. 17; v. 277; p. 419.
Taylor, Arlington. (See Campbell, George B., assignor.)
Taylor, Arnold M. (See Lebourveau, U. J., and Taylor.)
Taylor, Asa J., Jr., assignor of one-half to H. M. Thompson, Chicago, Ill. Electric gear-shifter. No. 1,336,796; Apr. 13; v. 273; p. 267.

Digitized by Google

Taylor, Augustus. (See Elliott, Harold F., assignor.)
Taylor, Augustus. (See Fuller, Leonard F., assignor.)
Taylor, Bayard E., Oak Park, Ill. Projectile. No. 1,335,406; Mar. 30; v. 272; p. 828.
Taylor, Bayard E., Oak Park, Ill. Tire-caliper. No. 1,363,825; Dec. 28; v. 281; p. 698.
Taylor, Blake, Roanoke, Va. Dump-truck. No. 1,358,346; Nov. 9; v. 280; p. 282.
Taylor, Burt E., Mount Vernon, N. Y. Apparatus for treating and canning milk. No. 1,340,921; May 25; v. 274; p. 630.
Taylor, Byron C. and U. V., Kansas City, Mo. Garter. No. 1,357,745; Nov. 2; v. 280; p. 103.
Taylor, Carl P., Norfolk, Va., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,363,757; Dec. 28; v. 281; p. 684.
Taylor, Cecil H., Detroit, Mich. Internal-combustion engine. No. 1,330,408; Feb. 10; v. 271; p. 230.
Taylor, Cecil H., Detroit, Mich. Internal-combustion engine. No. 1,330,409; Feb. 10; v. 271; p. 230.
Taylor, Charles. (See Carter and Taylor.)
Taylor, Charles, and B. H. Saunders, Paterson, N. J. Piling-machine. No. 1,342,190; June 1; v. 275; p. 114.
Taylor, Charles E., Sealy, Tex. Cotton-picking nozzle. No. 1,335,035; Mar. 30; v. 272; p. 759.
Taylor, Charles F., assignor of one-half to A. Bangerter, New York, N. Y. Radiator filler-cap. No. 1,359,471; Nov. 16; v. 280; p. 549.
Taylor, Charles H., Toronto, Ontario, Canada. Mechanical piano-player. No. 1,343,237; June 15; v. 275; p. 436.
Taylor, Charles H., Newcastle-upon-Tyne, and H. J. Alpe, Farnborough, England. Screw-thread gage. No. 1,354,587; Oct. 5; v. 279; p. 28.
Taylor, Clarence L., assignor to The Morgan Engineering Company, Alliance, Ohio. Hoisting mechanism for overhead traveling cranes. No. 1,357,429; Nov. 2; v. 280; p. 43.
Taylor, Clyde E., Wooster, Ohio. Tractor. No. 1,356,497; Oct. 19; v. 279; p. 495.
Taylor, Daniel L., Boston, Mass. Speed-indicating and lighting means for vehicles. No. 1,356,097; Oct. 19; v. 279; p. 417.
Taylor, David N., Lewisburg, Tenn. Harrow. No. 1,332,148; Feb. 24; v. 271; p. 645.
Taylor, Donald R. N., Drummoyne, near Sydney, Australia, and D. Marks, Sydney, New South Wales, Australia. Crutch. No. 1,349,639; Aug. 17; v. 277; p. 420.
Taylor, Earl A., Buffalo, N. Y., assignor to Maxwell Motor Co., Inc., Detroit, Mich. Electrical welding process. No. 1,346,350; July 13; v. 276; p. 264.
Taylor, Edward. (See Allen, E. W., and Taylor.)
Taylor, Edward A., assignor to The Grasselli Chemical Company, Cleveland, Ohio. Dissolving sodium silicate. No. 1,341,288; May 25; v. 274; p. 702.
Taylor, Edward P., Ottawa, Ontario, Canada. Electric toaster. No. 1,331,829; Feb. 24; v. 271; p. 586.
Taylor, Ernest J., Everett, Mass. Mold and forming porcelain insulators therein. No. 1,351,929; Sept. 7; v. 278; p. 43.
Taylor, Ernest W., assignor to The Brown Hoisting Machinery Company, Cleveland, Ohio. Hoisting and conveying machine. No. 1,327,071; Jan. 6; v. 270; p. 36.
Taylor, Eugene H., deceased, Hyde Park, Mass.; George A. Taylor, administrator. Machine for making insoles. No. 1,337,290; Apr. 20; v. 273; p. 435.
Taylor, Eugene H., deceased; G. A. Taylor, administrator, assignor, by mesne assignments, to J. T. Robinson Company, Boston, Mass. Label-applying machine. No. 1,362,200; Dec. 14; v. 281; p. 290.
Taylor, Frank H. (See Shearer, Greer M., assignor.)
Taylor, Frederick A., Kansas City, Mo. Latch mechanism for silo-doors. No. 1,340,922; May 25; v. 274; p. 630.
Taylor, George, Philadelphia, Pa. Machine for treating vegetable waste. No. 1,335,619; Mar. 30; v. 272; p. 867.
Taylor, George A., administrator. (See Taylor, Eugene H.)
Taylor, George H., Richmond, Va. Label-holder. No. 1,327,298; Jan. 6; v. 270; p. 78.
Taylor, H. R., *et al.* (See Brown, Egbert R., assignor.)
Taylor, Harold D., York, England. Range-finding and the like instrument. No. 1,339,235; May 4; v. 274; p. 108.
Taylor, Harry C., West Frankfort, Ill. Automatic safety-stop. No. 1,340,305; May 18; v. 274; p. 443.
Taylor, Harry F. (See Meredith, Oscar G., assignor.)
Taylor, Harry H., Fresno, Calif. Hopper for filling cartons with raisins and similar articles of merchandise. No. 1,327,644; Jan. 13; v. 270; p. 204.
Taylor, Harry H., Hutchinson, Kans. Electric generator attachment for windmills. No. 1,351,975; Sept. 7; v. 278; p. 52.
Taylor, Harvey B., Philadelphia, Pa. System of lubrication. No. 1,341,866; June 1; v. 275; p. 50.
Taylor, Harvey B., and C. W. Larner, Philadelphia, Pa. Valve. No. 1,356,238; Oct. 19; v. 279; p. 445.
Taylor, Herbert B., Westfield, N. J., assignor to Hall Switch & Signal Co. Light-signal. No. 1,333,046; Mar. 9; v. 272; p. 218.
Taylor, Herbert B., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Support for contact-rails. No. 1,334,877; Mar. 23; v. 272; p. 670.
Taylor, Horace H., Oakland, Calif. Vehicle-wheel. No. 1,345,281; June 29; v. 275; p. 964.
Taylor, Horace V. S., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Ignition system. No. 1,327,790; Jan. 13; v. 270; p. 231.
Taylor, Howard, Philadelphia, Pa. Automobile-bumper. No. 1,338,597; Apr. 27; v. 273; p. 751.
Taylor, Hubert P., assignor of one-half to C. H. Cobb, Union City, Tenn. Cotton-picking sack. No. 1,335,620; Mar. 30; v. 272; p. 868.
Taylor, Huston, assignor to Detroit Carrier and Manufacturing Company, Detroit, Mich. Fire-pump. No. 1,338,711; May 4; v. 274; p. 12.
Taylor Instrument Companies. (See Hurlburt, Edward N., assignor.)
Taylor Instruments Companies. (See Karst, George, assignor.)
Taylor Instrument Companies. (See Norwood, H. Y., and Stalker, assignors.)
Taylor Instrument Companies. (See Norwood, Harry Y., assignor.)
Taylor Instrument Companies. (See Swift, Lewis B., assignor.)
Taylor, James M., Detroit, Mich. Lock. No. 1,350,392; Aug. 24; v. 277; p. 611.
Taylor, James O., Providence, R. I. Oil-gas burner. No. 1,346,391; July 13; v. 276; p. 271.
Taylor, James T., Normangee, Tex. Broom. No. 1,357,913; Nov. 2; v. 280; p. 136.
Taylor, John D., London, England. Apparatus for impregnating or treating textile fabrics and other materials. No. 1,331,729; Feb. 24; v. 271; p. 560.
Taylor, John L., *et al.* (See Cockburn, D., and MacNicoll, assignors.)
Taylor, John L., Oakmont, Pa. Metal barges. No. 1,338,712; May 4; v. 274; p. 12.
Taylor, John M., Radnor, assignor to Diamond State Fibre Company, Bridgeport, Pa. Parchmentizing fabric. No. 1,350,685; Aug. 24; v. 277; p. 669.
Taylor, John S., Norfolk, Va., assignor, by mesne assignments, to Premier Motor Corporation of America. Internal-combustion engine. No. 1,339,870; May 11; v. 274; p. 304.
Taylor, John W., Philadelphia, Pa. Parachute. No. 1,340,259; May 18; v. 274; p. 434.
Taylor, Joseph A., assignor to The Walker & Barkman Manufacturing Company, Hartford, Conn. Creeper. No. 1,363,023; Dec. 21; v. 281; p. 502.
Taylor, Joseph B. (See Milliken, Humphreys, assignor.)
Taylor, Joseph S., Pilot Point, Tex. Hand-harvester. No. 1,349,925; Aug. 17; v. 277; p. 474.
Taylor, Laurence L., Toronto, Ontario, Canada. Humidifier. No. 1,362,649; Dec. 21; v. 281; p. 430.
Taylor, Lewis H., Jr., *et al.* (See Bair, Joseph H., assignor.)
Taylor, Louis R. (See Steinle, G. A., Smith, and Taylor.)
Taylor, Louise M., Chicago, Ill. Marcel waver. No. 1,334,329; Mar. 23; v. 272; p. 565.
Taylor, Marion, Soudan, Va. Automatic train-stop. No. 1,349,172; Aug. 10; v. 277; p. 254.
Taylor, Patillo M., Easley, S. C. Fluid check for traveling carriages. No. 1,355,365; Oct. 12; v. 279; p. 234.
Taylor, Peter, Ottumwa, Iowa. Mine-car wheel. No. 1,360,816; Nov. 30; v. 280; p. 927.
Taylor, Richard L. D., assignor to Predigest Food Company, Limited, Toronto, Ontario, Canada. Manufacture of animal foods from kitchen waste and the like. No. 1,354,068; Sept. 28; v. 278; p. 602.
Taylor, Robert A. (See Thewlis, V. P., Melville, and Taylor.)
Taylor, Robert A., Cincinnati, Ohio. Carton and blank therefor. No. 1,343,420; June 15; v. 275; p. 470.
Taylor, Russell E., New York, N. Y. Machine for making hair yarn. No. 1,330,455; Feb. 10; v. 271; p. 238.
Taylor, Russell E., New York, N. Y. Unitary yarn device and making same. No. 1,343,238; June 15; v. 275; p. 436.
Taylor, Samuel T. (See Hardt, B. F., and Taylor.)
Taylor, Samuel W., Baltimore, Md., assignor to The Crown Cork and Seal Company of Baltimore City. Bottle-capping apparatus. No. 1,348,908; Aug. 10; v. 277; p. 202.
Taylor-Shantz Company. (See Almstead, Raymond P., assignor.)
Taylor, Silas P., assignor to Tennessee Implement Sales Co., Loretto, Tenn. Fender. No. 1,339,586; May 11; v. 274; p. 250.
Taylor, Silas P., assignor to Tennessee Implements Sales Co., Loretto, Tenn. Cultivator. No. 1,363,375; Dec. 28; v. 281; p. 610.
Taylor, Taylor & Hobson, Limited. (See Warmisham, Arthur, assignor.)
Taylor, Thomas E., assignor to The Eclipse Stove Company, Mansfield, Ohio. Portable stove. No. 1,342,072; June 1; v. 275; p. 90.
Taylor, Thomas E., assignor to The Eclipse Stove Company, Mansfield, Ohio. Combination coal and gas range. No. 1,347,601; July 27; v. 276; p. 626.
Taylor, Urban V. (See Taylor, Byron C. and U. B.)
Taylor, Victor P., New York, N. Y. Alloy. No. 1,350,891; Aug. 24; v. 277; p. 708.

Digitized by Google

Alphabetical list of patentees—Continued.

Taylor, W., and F. W. Preston, Leicester, England. Preparing lenses and the like for grinding and polishing. No. 1,358,676; Nov. 9; v. 280; p. 349.
Taylor, W. P., Company. (See Gibney, James W., assignor.)
Taylor, Walter E., Avalon, Pa. Metallic joint. No. 1,355,712; Oct. 12; v. 279; p. 301.
Taylor, Walter M., London, England. Gas-fired water-heater or steam-generator. No. 1,328,856; Jan. 27; v. 270; p. 498.
Taylor Welder Company, The. (See Taylor, Albertis C., assignor.)
Taylor-Wharton Iron and Steel Company. (See Alexander, E. E., and Piggott, assignors.)
Taylor-Wharton Iron and Steel Company. (See Andrews, Charles B., assignor.)
Taylor-Wharton Iron and Steel Company. (See Cahill, Phillip J., assignor.)
Taylor-Wharton Iron and Steel Company. (See Crook, A., and Chapman, assignors.)
Taylor-Wharton Iron and Steel Company. (See Ekman, Frederick, assignor.)
Taylor-Wharton Iron and Steel Company. (See Mayer, Waldemar F., assignor.)
Taylor-Wharton Iron and Steel Company. (See Summers, Mark L., assignor.)
Taylor, William, and F. W. Preston, Leicester, England. Method and means for preparing lenses and the like for grinding and polishing. No. 1,332,778; Mar. 2; v. 272; p. 115.
Taylor, William, and F. W. Preston, Leicester, England. Apparatus for preparing lenses and the like for grinding and polishing. No. 1,358,677; Nov. 9; v. 280; p. 349.
Taylor, William E., assignor to American Can Company, New York, N. Y. Cooking-machine. No. 1,330,456; Feb. 10; v. 271; p. 289.
Taylor, William E., East Orange, N. J., assignor to American Can Company. Hermetically-sealed receptacle. No. 1,337,491; Apr. 20; v. 273; p. 473.
Taylor, William G., Schnectady, N. Y., assignor to General Electric Company. Motor-control. No. 1,347,305; July 20; v. 276; p. 511.
Taylor, William H., Anna, Ill. Fruit packer and shaper. No. 1,360,471; Nov. 30; v. 280; p. 859.
Taylor, Willis P., Oakland, Calif. Rail-joint. No. 1,361,507; Dec. 7; v. 281; p. 107.
Taylor, Zachariah A., Riverside, Calif. Washer. No. 1,329,441; Feb. 3; v. 271; p. 18.
Taynton, Walter E., Oakland, Calif. Vehicle-signal. No. 1,355,578; Oct. 12; v. 279; p. 275.
Tayntor, Charles L., Claymont, Del. Production of acids. No. 1,361,416; Dec. 7; v. 281; p. 87.
Teagle Company, The. (See Le Pontois, Leon J., assignor.)
Teagle Company, The. (See Whitcomb, Fred J., assignor.)
Teague, Victor R., Lovington, N. Mex. Separable tire-rim. No. 1,345,282; June 29; v. 275; p. 964.
Teal, Arthur E., Walker township, Kent county, Mich. Phonograph. No. 1,336,492; Apr. 13; v. 273; p. 208.
Teall, Oliver E., assignor of one-half to The Tissue Company, Saugerties, N. Y. Container for paper napkins. No. 1,362,449; Dec. 14; v. 281; p. 338.
Teas, Herman, London, England. Display apparatus. No. 1,330,991; Feb. 17; v. 271; p. 409.
Teasdale, Henry A., Atlanta, Ga. Flytrap. No. 1,361,417; Dec. 7; v. 281; p. 88.
Tebbetts, Lewis B., 2d, St. Louis, Mo. Making powdered or granulated aluminum. No. 1,327,748; Jan. 13; v. 270; p. 228.
Tebeau, Lewis B., Concord, N. H. Heating device for lamp-chimneys. No. 1,342,359; June 1; v. 275; p. 145.
Techel, Hans, Kiel, assignor to Fried. Krupp Aktiengesellschaft Germaniawerft, Kiel-Gaarden, Germany. Device to eliminate vibrations during rotation of crank-shafts in piston-engines with multiple cylinders. No. 1,359,848; Nov. 23; v. 280; p. 668.
Tedder, James A., Princeton, W. Va. Window-shade. No. 1,362,760; Dec. 21; v. 281; p. 451.
Tedder, James M., Pine Bluff, Ark. Combined stovepipe and brace. No. 1,359,127; Nov. 16; v. 280; p. 481.
Tedesco, Arrigo, executors, *et al.* (See Salvati, Michele N.)
Tedesco, Arrigo, assignor to Societa Anonima Stabilimenti Biak, Turin, Italy. Zinc alloy. No. 1,350,892; Aug. 24; v. 277; p. 708.
Tedesco, Arrigo, assignor to Societa Anonima Stabilimenti Biak, Turin, Italy. Manufacturing aluminum alloys. No. 1,350,893; Aug. 24; v. 277; p. 708.
Tedesco, Arrigo, assignor to Societa Anonima Stabilimenti Biak, Turin, Italy. Alloy having high mechanical, chemical, and electrical resistance. No. 1,351,811; Sept. 7; v. 278; p. 19.
Teed, Earl S., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Automatic valve. No. 1,359,631; Nov. 23; v. 280; p. 625.
Teegarden, Chester H., Washington, D. C. Receiving telegraph-signals. No. 1,346,614; July 13; v. 276; p. 315.
Teel, Lawrence H., Salem, Mass. Tire-holder for automobiles. No. 1,352,559; Sept. 14; v. 278; p. 199.
Teel, William H., Los Angeles, Calif. Pumping Power. No. 1,351,267; Aug. 31; v. 277; p. 844.
Teeples, Clarence. (See Wright, W. M., Teeples, and Lamb.)
Teetor Company. (See Teetor, Martin, assignor.)
Teetor, Martin, assignor to Teetor Company, Des Moines, Iowa. Calculating-machine. No. 1,344,191; June 22; v. 275; p. 687.
Teft, John, Waterbury, Conn. Shade and curtain-pole holder. No. 1,880,358; Feb. 10; v. 271; p. 221.
Tehur, Dyon, Calgary, Alberta, Canada. Milking-machine. No. 1,354,145; Sept. 28; v. 278; p. 618.
Teich, Ernest L., assignor to The American Hardware Corporation, New Britain, Conn. Lock. No. 1,346,142; July 13; v. 276; p. 222.
Teich, Ernest L., assignor to The American Hardware Corporation, New Britain, Conn. Fire-door lock. No. 1,346,143; July 13; v. 276; p. 223.
Teitsel, Louis, Junction City, Kans. Camera. No. 1,357,363; Nov. 2; v. 280; p. 81.
Telautograph Corporation. (See Tiffany, George S., assignor.)
Telepost Company. (See Delany, P. B., and Shumaker, assignors.)
Teller, John D., Henderson, Tex. Shock-absorber and axle-reinforcement. No. 1,337,291; Apr. 20; v. 273; p. 435.
Temple, Fred W., Kalamazoo, Mich. Electrical indicators. No. 1,347,421; July 20; v. 276; p. 584.
Temple, Harry M., and P. Kearney, assignors to Detroit Closed Bushing Company, Detroit, Mich. End closure for wire-conduits. No. 1,341,398; May 25; v. 274; p. 723.
Temple, Robert, Denver, Colo., assignor to Imperial Tunnelling Machine Company. Rock-cutting apparatus. No. 1,330,825; Feb. 17; v. 271; p. 376.
Temple, Sterling. (See Frary, F. C., and Temple.)
Temple, William S., and J. A. Kealey, Mount Vernon, Ohio. Method and apparatus for drawing and annealing sheet-glass. No. 1,334,569; Mar. 23; v. 272; p. 611.
Templer, Norman B., Malvern, South Australia, Australia. Trolley-guard. No. 1,360,817; Nov. 30; v. 280; p. 927.
Templeton, Edwin G., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire-making machine. No. 1,338,407; Apr. 27; v. 273; p. 716.
Templeton Manufacturing Company. (See Templeton, William R., assignor.)
Templeton, Walter B., Chicago, Ill. Lifting-jack. No. 1,328,808; Jan. 20; v. 270; p. 365.
Templeton, William B., Long Lake, Wash., assignor to General Electric Company. Electric switch. No. 1,337,105; Apr. 13; v. 273; p. 326.
Templeton, William G., Colorado Springs, Colo. Vending-machine. No. 1,348,763; Aug. 3; v. 277; p. 122.
Templeton, William G., assignor of one-fourth to H. H. Seldomridge, one-fourth to C. B. Seldomridge, and one-fourth to W. N. Burgess, Colorado Springs, Colo. Vending-machine. No. 1,331,830; Feb. 24; v. 271; p. 586.
Templeton, William R., assignor to Templeton Manufacturing Company, Boston, Mass. Steam-trap. No. 1,341,027; May 25; v. 274; p. 652.
Templin, Ellis W. (See Stringfellow, H. A., and Templin.)
Ten Brink, John H., and A. V. Martin, Muskegon, Mich. Machine for forming battery-jars. No. 1,363,095; Dec. 28; v. 281; p. 672.
Ten Brink, Johonnas, Holland, Mich. Truck-starting implement. No. 1,358,347; Nov. 9; v. 280; p. 283.
Ten Broeck, Floyd G., Brooklyn, N. Y., and M. T. Weston, Keansburg, N. J., assignors to West Virginia Pulp & Paper Company, New York, N. Y. Rotary dry-distilling apparatus. No. 1,350,627; Aug. 24; v. 277; p. 658.
Ten Eyck, Walter P. (See Anderson, Andrew P., assignor.)
Tenca, Louis P., assignor to The Glidden Company, Cleveland, Ohio. Dipping-machine. No. 1,332,934; Mar. 9; v. 272; p. 196.
Tench, Samuel V., Wilkes-Barre, Pa. Sprocket-chain. No. 1,348,189; Aug. 3; v. 277; p. 11.
Tench, Samuel V., Wilkes-Barre, Pa. Rail-bender. No. 1,355,713; Oct. 12; v. 279; p. 301.
Tench, Samuel V., Wilkes-Barre, Pa. Attachment for chains. No. 1,357,262; Nov. 2; v. 280; p. 12.
Tenesch, Max M., Kelso, Calif. Air preheaters for furnaces. No. 1,346,992; July 20; v. 276; p. 450.
Tenge, Dirk A., Krugersdorp, Transvaal, South Africa. Rail-fastening device. No. 1,351,073; Aug. 31; v. 277; p. 806.
Tennent, Nettie. (See Mendenhall, W. R., and Tennent.)
Tennessee Implement Sales Co. (See Taylor, Silas P., assignor.)
Tennessen, John, Jr. (See Tamm, A. M., and Tennessen.)
Tenney, Alonzo C., Chicago, Ill. Tire-inflating means. No. 1,330,560; Feb. 10; v. 271; p. 258.
Tenney, Charles H. (See Burgi, Herman, assignor.)
Tenney, H. O. (See Thomas, Edwin E., assignor.)
Tennille, Harry N., Dumbarton, Va. Permutation-padlock. No. 1,342,033; June 1; v. 275; p. 82.
Tennyson, Alexander C., Alexandria, La. Automobile cranker. No. 1,343,531; June 15; v. 275; p. 492.
Tennyson, Vivian D. (See Padgett, Claude M., assignor.)

Digitized by Google

Tensfeldt, John O., Ridgewood, N. J. Drier. No. 1,349,590; Aug. 17; v. 277; p. 410.
Terashima, Toyojiro, Tokyo, Japan. Stereoscope. No. 1,349,018; Aug. 10; v. 277; p. 224.
Terhaar, Aloysius S., San Diego, Calif. Safety appliance for ships. No. 1,354,069; Sept. 28; v. 278; p. 602.
Terhune, Howard, East Cleveland, assignor to The Kliby Manufacturing Company, Cleveland, Ohio. Drop-hammer. No. 1,348,969; Aug. 10; v. 277; p. 214.
Terkelsen, Andrew, *et al.* (See Lea, Charles, assignor.)
Terkelsen, Andrew. (See Wennberg, Carl J., assignor.)
Ter Kuile, Harry, Enschede, Netherlands. Electrical feeler arrangement for weaving-looms. No. 1,330,036; Feb. 3; v. 271; p. 129.
Ternstedt Manufacturing Co. (See Allmand, John T., assignor.)
Ternstedt Manufacturing Co. (See Simpson, Emory G., assignor.)
Ternstedt Manufacturing Company. (See Gates, Louis W., assignor.)
Ternsted Manufacturing Company. (See Simpson, E. G., Schmidt, and Carstens, assignors.)
Terragni, Manlio, and T. Boldizzoni, New York, N. Y. Embroidering device. No. 1,348,600; Aug. 3; v. 277; p. 91.
Terrell, Alfred. (See Friel, Patrick H., assignor.)
Terrell, Frank J., Waterbury, Conn., assignor to The Hodge Manufacturing Company, New York, N. Y. Pencil. No. 1,361,554; Dec. 7; v. 281; p. 117.
Terrell, James M., Dallas, Tex. Sheen-removing apparatus. No. 1,355,366; Oct. 12; v. 279; p. 235.
Terrell, Kendel J., Hushpuckena, Miss. Entrance and exit car for trains. No. 1,337,492; Apr. 20; v. 273; p. 473.
Terry, Benjamin F., South Norfolk, Va. Writer's rest. No. 1,361,644; Dec. 7; v. 281; p. 134.
Terry, Cleveland G., Los Angeles, Calif. Stove. No. 1,341,623; May 25; v. 274; p. 766.
Terry, Edgar J., St. John, New Brunswick, Canada. Ballcock for water-closet tanks. No. 1,343,421; June 15; v. 275; p. 470.
Terry, Edward, London, England. Automatic valve. No. 1,346,921; July 20; v. 276; p. 435.
Terry, Edward F., Manufacturing Company. (See North, Carl U., assignor.)
Terry, Ellis L., Los Angeles, Calif. Folding ironing-board. No. 1,329,257; Jan. 27; v. 270; p. 574.
Terry, Franklin A., San Francisco, Calif. Automatic burglar-alarm. No. 1,350,188; Aug. 17; v. 277; p. 525.
Terry, George O., assignor to Economy Shoe Machine Co., Minneapolis, Minn. Leather-skiving machine. No. 1,336,597; Apr. 13; v. 273; p. 228.
Terry, Joseph T., Jr. (See Callow, J. M., Thompson, and Terry.)
Terry, Joseph T., Jr. (See Thompson, J. W., and Terry.)
Terry, Joseph T., Jr., assignor to Terry Mining and Metallurgical Corporation, Salt Lake City, Utah. Concentrating ores. No. 1,334,420; Mar. 23; v. 272; p. 583.
Terry, Joseph T., Jr., Salt Lake City, Utah, assignor, by mesne assignments, to Metals Recovery Co., Augusta, Me. Ore-concentrating apparatus. No. 1,362,370; Dec. 14; v. 281; p. 323.
Terry Mining and Metallurgical Corporation. (See Terry, Joseph T., Jr., assignor.)
Terry Steam Turbine Company, The. (See Church, Maynard D., assignor.)
Terstyansky, Albert A., Bridgeport, assignor to Winchester Repeating Arms Co., New Haven, Conn. Burglar-alarm. No. 1,342,104; June 1; v. 275; p. 96.
Terzich, John M., Sutter Creek, Calif. Time-controlled light. No. 1,339,236; May 4; v. 274; p. 108.
Tesar, Wilhelm. (See Nonnast, H., and Tesar.)
Tesch, A. R. (See Rasmussen, Martin, assignor.)
Tesch, August W., Lansing, Ill. Resilient wheel. No. 1,352,769; Sept. 14; v. 278; p. 241.
Teske, Meta, Unionville, Mich. Drying-frame. No. 1,331,886; Feb. 24; v. 271; p. 597.
Tesla, Nikola, New York, N. Y. Valvular conduit. No. 1,329,559; Feb. 3; v. 271; p. 40.
Tesmer, Fredrick L., Cleveland, assignor, by mesne assignments, to The Ashtabula Row Socket Company, Ashtabula, Ohio. Top for vehicles. No. 14,982; Nov. 9; v. 280; p. 353.
Tessner, Frank, Milwaukee, Wis. Pump-drive for marine motors. No. 1,363,289; Dec. 28; v. 281; p. 594.
Test, Ellis W., Michigan City, Ind. Detachable roof. No. 1,343,291; June 15; v. 275; p. 445.
Testall Electric Manufacturing Co. (See Bierbower, Richard C., assignor.)
Teter, Charles K., Cleveland, Ohio, assignor to The Teter Manufacturing Company. Anesthetizing apparatus. No. 1,361,200; Dec. 7; v. 281; p. 44.
Teter, Charles K., assignor to The Teter Manufacturing Company, Cleveland, Ohio. Ether-administering appliance. No. 1,362,201; Dec. 14; v. 281; p. 291.
Teter, Daniel P. (See Merey, Julius, assignor.)
Teter Manufacturing Company, The. (See Teter, Charles K., assignor.)
Tetreau, Albert. (See Tetreau, A. D. and A.)
Tetreau, Alfred D. and A., Sanford, Me. Filling-stripper for looms. No. 1,333,098; Mar. 9; v. 272; 227.
Tetu, Alexander E. (See Messinger, J. H., and Tetu.)
Teuscher, Adolph and O. T., Hillsdale, Oreg. Automobile-sander. No. 1,347,306; July 20; v. 276; p. 511.
Teuscher, Otto. (See Teuscher, Adolph and O.)
Tevander, Swan N., Maywood, Ill. Bottle-cap. No. 1,335,538; Mar. 30; v. 272; p. 852.
Tevander, Swan N., Maywood, Ill., assignor to American Can Company, New York, N. Y. Container-closure. No. 1,348,601; Aug. 3; v. 277; p. 92.
Tevander, Swan N., Maywood, Ill., assignor to American Can Company, New York, N. Y. Solder-applying machine. No. 1,358,480; Nov. 9; v. 280; p. 310.
Tewksbury, Russell B. (See Oster, H. W., and Tewksbury.)
Texas Company, The. (See Adams, Joseph H., assignor.)
Texas Oil Well Pump Company. (See Mackenzie, Alexander S., assignor.)
Textile Machine Works. (See Airhart, Lewis, assignor.)
Textile Machine Works. (See Janssen, Henry, assignor.)
Textile Machine Works. (See Staub, Herman, assignor.)
Textile Products Manufacturing Company. (See Meyer, Adolph E., assignor.)
Textorius, Knut O. B., New York, N. Y., assignor of one-third to T. A. Liebler, Riverside, Conn., and one-third to E. Cahn, New York, N. Y. Machine for making cord-tires. No. 1,359,632; Nov. 23; v. 280; p. 625.
Thacher, John J., Wethersfield, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Wheel-dressing mechanism. No. 1,350,531; Aug. 24; v. 277; p. 639.
Thacher Propeller and Foundry Corporation. (See Thacher, Thomas O., assignor.)
Thacher, Thomas O., assignor to Thacher Propeller and Foundry Corporation, Albany, N. Y. Method and apparatus for casting propeller-wheels. No. 1,330,660; Feb. 10; v. 271; p. 277.
Thacher, Thomas O., assignor to Thacher Propeller and Foundry Corporation, Albany, N. Y. Casting propeller-wheels. No. 1,330,661; Feb. 10; v. 271; p. 277.
Thacker, Anson A., Kansas City, Mo. Envelop stamping and sealing machine. No. 1,363,065; Dec. 21; v. 281; p. 510.
Thacker, William T., Greenville, S. C. Rocker-stud bearing. No. 1,348,602; Aug. 3; v. 277; p. 92.
Thackery, George E. (See Moyer, F. H., and Thackery.)
Thain, Joseph H. (See Chicken, C. B., and Thain.)
Thalhammer, Karl W., Los Angeles, Calif. Support for motion-picture cameras. No. 1,358,402; Nov. 9; v. 280; p. 293.
Thamm, Rosie, Berkeley, Calif. Napkin-fastener. No. 1,329,149; Jan. 27; v. 270; p. 553.
Tharp, Wilber H., Lewiston, Idaho. Current-motor. No. 1,327,745; Jan. 13; v. 270; p. 228.
Thatcher, Harry P., Beverly, and J. W. Hanley, Falmouth, Mass. Carbureter. No. 1,354,588; Oct. 5; v. 279; p. 28.
Thaxton, Guy W., Fairfield, Ala. Signaling system. No. 1,353,436; Sept. 21; v. 278; p. 431.
Thayer, C. E., *et al.* (See Fischer, Emil, assignor.)
Thayer, Joseph E., West Bridgewater, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Inseam shoe-sewing machine. No. 1,339,633; May 11; v. 274; p. 259.
Thayer, Marshall K., Edgemont, S. D. Vaporizer. No. 1,345,563; July 6; v. 276; p. 47.
Thayer, Rena W., Springfield, Mass. Attachment for barrettes. No. 1,343,239; June 15; v. 275; p. 436.
Thayer, Roscoe W., Lacrosse, Wash. Cultivator. No. 1,344,833; June 29; v. 275; p. 878.
Thayer, Russell, Philadelphia, Pa. Extracting platinum and similar metals from their sands and ores. No. 1,341,686; June 1; v. 275; p. 14.
Thayer, Russell, Philadelphia, Pa. Extraction of platinum and similar metals from their sands and ores. No. 1,355,186; Oct. 12; v. 279; p. 199.
Thayer, Victor W., assignor of one-half to W. H. Nye, Syracuse, N. Y. Tool. No. 1,358,037; Nov. 9; v. 280; p. 221.
Thebault, Joseph C., Chicago, Ill. Railway-tie. No. 1,330,752; Feb. 10; v. 271; p. 294.
Theberath, Joseph C., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Vehicle-wheel rim. No. 1,346,569; July 13; v. 276; p. 307.
Theberath, Joseph C., assignor to The Standard Parts Company, Cleveland, Ohio. Vehicle-wheel rim. No. 1,347,602; July 27; v. 276; p. 626.
Theemling, Jakob, Los Angeles, Calif. Rotary engine. No. 1,327,575; Jan. 6; v. 270; p. 130.
Theimer, Max. (See Thum, G. E., and Theimer.)
Theimer, Max, Elizabeth, N. J. Bone-holding device. No. 1,342,515; June 8; v. 275; p. 229.
Theis, Le Roy W. (See Perdue, R. H., and Theis.)
Thelsen, Peter P., Chicago, Ill. Pipe connection. No. 1,341,086; May 25; v. 274; p. 663.
Thelin, Carl G. T., assignor to A. E. K. Spångberg, Stockholm, Sweden. Starting device for internal-combustion engines. No. 1,344,739; June 29; v. 275; p. 860.
Theodor Kundtz Company, The. (See Fohman, Charles, assignor.)
Theodore, Anostopoulo D., whose full legal name is T. D. Anagnostopoulos, Eunice, La. Article-handler. No. 1,350,123; Aug. 17; v. 277; p. 512.
Theriot, Charles, assignor of one-third to J. W. Sanders and one-third to P. R. Burke, New Iberia, La. Railway-crossing signal. No. 1,328,932; Jan. 27; v. 270; p. 518.

Digitized by Google

Alphabetical list of patentees—Continued.

Thermoid Rubber Company. (See Pardoe, William D., assignor.)
Thermoid Rubber Company. (See Stokes, Robert J., assignor.)
Thermokept Products Corporation. (See McColl and Willison, assignors.)
Thermowax Co., The. (See Annan, Alfred H., assignor.)
Theroz Company, The. (See Popper, Isaac C., assignor.)
Theroz Company, The. (See Schaub, Jacob, assignor.)
Theumer, Rudolf, Vienna, and F. Schar, Schwechat, near Vienna, Austria. Friction-actuated screw-press, &c. No. 1,363,932; Dec. 28; v. 281; p. 718.
Thevenin, Georges, St. Germain En Laye, assignor to Etablissements Continsouza, Societe Anonyme, Paris, France. Means for lubricating cinematographic projection apparatus. No. 1,363,290; Dec. 28; v. 281; p. 595.
Thévenot, Gaston D., Milwaukee, Wis. Manufacturing milk and cream substitutes. No. 1,359,633; Nov. 23; v. 280; p. 625.
Thewlis, Victor P., Brookline, D. G. Melville, Medford, and R. A. Taylor, Saxonville, assignors to Roxbury Carpet Company, Boston, Mass. Weaving rugs and other fabrics. No. 1,358,038; Nov. 9; v. 280; p. 221.
Thewlis, Victor P., Brookline, D. G. Melville, Medford, and R. A. Taylor, Saxonville, assignors to Roxbury Carpet Company, Boston, Mass. Loom. No. 1,358,039; Nov. 9; v. 280; p. 222.
Thibault, Joseph, Prince Albert, Saskatchewan, Canada. Sled shoe and runner protector. No. 1,341,087; May 25; v. 274; p. 663.
Thibault, Peter R., St. Ignace, Mich. Churn. No. 1,359,634; Nov. 23; v. 280; p. 625.
Thibeault, Dello, Campello, assignor of one-half to A. J. Veilleux, Brockton, Mass. Automobile signal mechanism. No. 1,347,063; July 20; v. 276; p. 464.
Thibert, Napoleon R. (See Sawtell, William H., assignor.)
Thibert, Napoleon R., Worcester, Mass. Lock-nut. No. 1,326,992; Jan. 6; v. 270; p. 22.
Thibert, Napoleon R., Worcester, Mass. Lock-nut. No. 1,352,103; Sept. 7; v. 278; p. 75.
Thiel, Frank, Remsen, Iowa. Rope-measuring device. No. 1,350,894; Aug. 24; v. 277; p. 708.
Thiel, Louis, assignor to The Cincinnati Lathe & Tool Company, Cincinnati, Ohio. Lathe-gearing. No. 1,352,925; Sept. 14; v. 278; p. 272.
Thiel, Otto, Landstuhl, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Treating molten metal. No. 1,353,126; Sept. 14; v. 278; p. 310.
Thielepape, Arnold W., assignor of one-half to S. Yeamans, Austin, Tex. Ice-carrier for automobiles. No. 1,355,187; Oct. 12; v. 279; p. 199.
Thielman, George F., St. Cloud, Minn. Stair-rule. No. 1,349,348; Aug. 10; v. 277; p. 290.
Thieme, Otto, and F. O. Mueller, assignors to Moon-Hopkins Billing Machine Company, St. Louis, Mo. Pressure-roller for typewriting-machines, &c. No. 1,336,797; Apr. 13; v. 273; p. 267.
Thiemer, William H., assignor to The Peters Machine and Manufacturing Company, Cleveland, Ohio. Universal joint. No. 1,327,791; Jan. 13; v. 270; p. 282.
Thiemer, William H., assignor to The Peters Machine and Manufacturing Company, Cleveland, Ohio. Universal joint. No. 1,336,985; Apr. 13; v. 273; p. 303.
Thiemer, William H., assignor to The Peters Machine and Manufacturing Company, Cleveland, Ohio. Universal joint. No. 1,360,818; Nov. 30; v. 280; p. 927.
Thiemer, William H., assignor to The Winton Company, Cleveland, Ohio. Vehicle-spring lubricator. No. 1,329,642; Feb. 3; v. 271; p. 55.
Thierry, William E. (See Appelt, Charles E. H., assignor.)
Thies, Joseph, Great Bend, Kans. Barge. No. 1,353,190; Sept. 21; v. 278; p. 384.
Thiesen, Hugo A. J., St. Louis, Mo. Current-motor. No. 1,360,472; Nov. 30; v. 280; p. 859.
Thill, Leonard S., Great Falls, Mont. Ore-feeding apparatus for furnaces. No. 1,348,603; Aug. 3; v. 277; p. 92.
Thim, Carl J., Logan, Utah. Beet-topper and hoe combined. No. 1,361,201; Dec. 7; v. 281; p. 44.
Thiman, Knut G., New York, N. Y. Rule attachment. No. 1,349,349; Aug. 10; v. 277; p. 290.
Thistlethwaite, Arthur W., Atchison, Kans. Gun-barrel. No. 1,351,309; Aug. 31; v. 277; p. 853.
Thokar, Paul E., Pittsburgh, Pa. Life-saving device. No. 1,330,410; Feb. 10; v. 271; p. 230.
Thollander, John A., Piedmont, Fla. Sectional tool-ladder. No. 1,340,688; May 18; v. 274; p. 516.
Thoma, Andrew, Cambridge, Mass., assignor to North American Chemical Company, New York, N. Y. Shoe-bottom-filling machine. No. 1,335,705; Mar. 30; v. 272; p. 884.
Thoma, Andrew, Cambridge, assignor to A. Sydeman, Boston, Mass. Coating fabrics. No. 1,346,615; July 13; v. 276; p. 315.
Thomae, Charles, assignor to The Thomae Company, Attleboro, Mass. Holder for matches. No. 1,362,371; Dec. 14; v. 281; p. 324.
Thomae Company, The. (See Thomae, Charles, assignor.)
Thomas, Arthur E., Wayne, Mich. Automatic door-opening device. No. 1,354,632; Oct. 5; v. 279; p. 37.
Thomas, Arthur R., Minneapolis, Minn. Automobile-muff. No. 1,336,763; Apr. 13; v. 273; p. 260.
Thomas, August, assignor to E. A. Baltensperger, New York, N. Y. Apparatus for turning crank-pins on engine-shafts. No. 1,345,415; July 6; v. 276; p. 18.
Thomas, Bert H., Des Moines, Iowa. Check-cutter attachment for typewriters. No. 1,362,761; Dec. 21; v. 281; p. 452.
Thomas, Bertha E., Erie, Pa. Flexible shaft-coupling. No. 1,326,993; Jan. 6; v. 270; p. 22.
Thomas, Bruno, Seattle, Wash. Electrolytic cell. No. 1,359,002; Nov. 16; v. 280; p. 458.
Thomas, Bruno, Seattle, Wash. Furnace for the electrical oxidization of gases. No. 1,359,932; Nov. 23; v. 280; p. 685.
Thomas, Bruno, Seattle, Wash. Furnace for electrical oxidization of gases. No. 1,359,933; Nov. 23; v. 280; p. 685.
Thomas, Carl C., Baltimore, Md. Internal-combustion-engine pump. No. 1,343,693; June 15; v. 275; p. 525.
Thomas, Carl C., Baltimore, Md., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Steam and gas drier. No. 1,359,547; Nov. 23; v. 280; p. 609.
Thomas, Charles E., Oil City, Okla. Lister-plow. No. 1,335,083; Mar. 30; v. 272; p. 768.
Thomas, Charles R., Muskogee, Okla. Twine winder and holder. No. 1,329,442; Feb. 3; v. 271; p. 18.
Thomas, Charles W., Glenloch, Pa. Making abrasive structures. No. 1,338,598; Apr. 27; v. 273; p. 751.
Thomas, Charles W., Wayne, Pa. Refractory product and making same. No. 1,344,461; June 22; v. 275; p. 741.
Thomas, Edward, New York, N. Y., and B. C. Stickney, Elizabeth, N. J., assignors to Underwood Computing Machine Company, New York, N. Y. Typewriting machine. No. 1,351,812; Sept. 7; v. 278; p. 19.
Thomas, Edward G., Toledo, Ohio. Child's table utensil. No. 1,347,307; July 20; v. 276; p. 511.
Thomas, Edward G., assignor to Toledo Scale Company, Toledo, Ohio. Indicating mechanism for scales. No. 1,360,154; Nov. 23; v. 280; p. 729.
Thomas, Edward W., Luton, England. Self-propelled agricultural implement. No. 1,336,057; Apr. 6; v. 273; p. 67.
Thomas, Edward W., Luton, assignor to Southey Gas Producers Limited, London, England. Gaseous-fuel generator. No. 1,356,239; Oct. 19; v. 279; p. 446.
Thomas, Edwin E., assignor to H. O. Tenney, Portland, Oreg. Combination-wrench. No. 1,344,101; June 22; v. 275; p. 669.
Thomas, Edwin E., assignor to H. O. Tenney, Portland, Oreg. Pneumatic water-lifting device. No. 1,363,443; Dec. 28; v. 281; p. 623.
Thomas, Edwin E., assignor to Thomas Engineering Works, Portland, Oreg. Nut-lock. No. 1,347,722; July 27; v. 276; p. 650.
Thomas, Elbert F. (See Kees and Thomas.)
Thomas, Emmet R., St. Paul, Minn. Boat and trunk combined. No. 1,345,416; July 6; v. 276; p. 18.
Thomas Engineering Works. (See Thomas, Edwin E., assignor.)
Thomas Foreign Patents Limited. (See Thomas, John G. P., assignor.)
Thomas, Frank M., Catskill, N. Y. Cartridge. No. 1,328,807; Jan. 20; v. 270; p. 365.
Thomas, Frank M., Catskill, N. Y. Bomb. No. 1,329,443; Feb. 3; v. 271; p. 19.
Thomas, Frank M., Catskill, N. Y. Bomb. No. 1,333,786; Mar. 16; v. 272; p. 417.
Thomas, Fred, Roanoke, Va. Coaster. No. 1,327,123; Jan. 6; v. 270; p. 46.
Thomas, Frederick, Philadelphia, Pa. Sewing-machine attachment. No. 1,360,598; Nov. 30; v. 280; p. 884.
Thomas, George. (See Lachman, P., and Thomas.)
Thomas, George B., assignor to The Bryant Electric Company, Bridgeport, Conn. Electric fitting. No. 1,329,330; Jan. 27; v. 270; p. 586.
Thomas, George B., assignor to The Bryant Electric Company, Bridgeport, Conn. Face-plate for flush receptacles. No. 1,342,237; June 1; v. 275; p. 123.
Thomas, George B., assignor to The Bryant Electric Company, Bridgeport, Conn. Switch-handle. No. 1,353,675; Sept. 21; v. 278; p. 480.
Thomas, George B., Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Acoustic device. No. 1,345,717; July 6; v. 276; p. 77.
Thomas, George B., assignor to The Perkins Electric Switch Manufacturing Company, Bridgeport, Conn. Electric switch. No. 1,347,308; July 20; v. 276; p. 512.
Thomas, George B., and C. E. Anderson, assignors to The Bryant Electric Company, Bridgeport, Conn. Pull-socket. No. 1,333,352; Mar. 9; v. 272; p. 275.
Thomas, George J., assignor to Duplex Truck Company, Lansing, Mich. Radiator. No. 1,337,415; Apr. 20; v. 273; p. 459.
Thomas, George J., assignor to Duplex Truck Company, Lansing, Mich. Radiator-mounting for motor-vehicles. No. 1,342,191; June 1; v. 275; p. 114.
Thomas, George K., Topeka, Kans. Electrolytic cell. No. 1,360,055; Nov. 23; v. 280; p. 709.
Thomas, George N., Mankato, Minn. Radiator-protector. No. 1,345,283; June 29; v. 275; p. 964.
Thomas, George P., Glenshaw, Pa. Punching machinery. No. 1,342,878; June 8; v. 275; p. 301.
Thomas, George P., Glenshaw, Pa. Punching-machine. No. 1,342,879; June 8; v. 275; p. 302.

Digitized by Google

Thomas, George P., Glenshaw, Pa. Spacing-machine. No. 1,342,880; June 8; v. 275; p. 302.
Thomas, George P., Glenshaw, Pa. Angle-planer. No. 1,363,625; Dec. 28; v. 281; p. 659.
Thomas, Harry A., assignor to M. Thomas, Pittsburgh, Pa. Sheet-metal construction. No. 1,347,190; July 20; v. 276; p. 488.
Thomas, Herbert O. (See Willis, F. L., and Thomas.)
Thomas, Horace T., Lansing, Mich. Cooling system for automobile-engines. No. 1,352,560; Sept. 14; v. 278; p. 199.
Thomas, Hubert S., Llandaff, W. R. Davies, Whitchurch, near Cardiff, Wales, and E. B. Thomas, deceased, London, N. C. B. Thomas, Englefield Green, H. R. W. Anderson, London, and C. Bathurst, Lydney, England, executors. Manufacture of coated plate and apparatus therefor. No. 1,360,819; Nov. 30; v. 280; p. 927.
Thomas, Hugh, Chinchilla, Pa. Spindle-holder. No. 1,345,284; June 29; v. 275; p. 964.
Thomas, Irving J. (See Leak, V. T., and Thomas.)
Thomas, Ivor D., assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Oven-door-shifting mechanism. No. 1,346,474; July 13; v. 276; p. 288.
Thomas, James F., Clarinda, Iowa. Garment-pressing device. No. 1,352,158; Sept. 7; v. 278; p. 86.
Thomas, John A., Millville, Fla. Music-leaf turner. No. 1,354,860; Oct 5; v. 279; p. 82.
Thomas, John G. P., Barnes, England. Internal-combustion engine. No. 1,346,280; July 13; v. 276; p. 250.
Thomas, John G. P., assignor to The Thomas Foreign Patents Limited, London, England. Transmission of power. No. 1,341,223; May 25; v. 274; p. 689.
Thomas, John W., Daisy, Tenn. Die and spiral. No. 1,338,799; May 4; v. 274; p. 28.
Thomas, Lawrence H. (See Kuhn, F., and Thomas.)
Thomas, Laurence H. (See Kuhn, F., Thomas, and Spiers.)
Thomas, Lee A. (See Abbott, William E., assignor.)
Thomas, Lee C., Nihill, Mont. Gopher-trap. No. 1,363,626; Dec. 28; v. 281; p. 659.
Thomas, Leslie A., Evansville, Ind. Hitch. No. 1,342,725; June 8; v. 275; p. 270.
Thomas, Lester V., Nacogdoches, Tex. Crossing for railway-tracks. No. 1,331,831; Feb. 24; v. 271; p. 586.
Thomas Manufacturing Company, The. (See Hartung, William R., assignor.)
Thomas Manufacturing Company, The. (See Pelton, Charles H., assignor.)
Thomas, Margerie. (See Thomas, Harry A., assignor.)
Thomas, Mary A., New York, and B. M. Beskow, Lake George, N. Y. Electric toaster. No. 1,332,935; Mar. 9; v. 272; p. 196.
Thomas, Nora C. B., *et al.*, executors. (See Thomas, H. S., Davies, Thomas.)
Thomas-Oberkirch Company, Limited. (See Thomas, William M., assignor.)
Thomas, Oscar A., Oxnard, Calif. Track-leveler attachment for tractors. No. 1,332,648; Mar. 2; v. 272; p. 90.
Thomas, Philip P., trustee. (See Kaufmann, M. M., and Lynn, assignors.)
Thomas, Phillips, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Condenser. No. 1,351,074; Aug. 31; v. 277; p. 806.
Thomas, Phillips, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Condenser. No. 1,354,146; Sept. 28; v. 278; p. 618.
Thomas, Phillips, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Condenser and making same. No. 1,354,147; Sept. 28; v. 278; p. 618.
Thomas, Phillips, assignor to Westinghouse Electric and Manufacturing Company, Edgewood Park, Pa. Electric condenser. No. 1,362,059; Dec. 14; v. 281; p. 263.
Thomas, R., and Sons Company, The. (See Harms, Rhinehart W., assignor.)
Thomas, R. R. (See Rice, Percy F., assignor.)
Thomas, Raymond G., Monticello, Iowa. Method of and apparatus for measuring the heights of superposed liquids of varying specific gravities. No. 1,329,150; Jan. 27; v. 270; p. 553.
Thomas, Rego F., Tompkinsville, N. Y. Playing-cards. No. 1,361,202; Dec. 7; v. 281; p. 44.
Thomas, Richard B., deceased, *et al.*, executors. (See Thomas, H. S., Davies, Thomas.)
Thomas, Richard R., Indianapolis, Ind. Garment-supported tool-carrier. No. 1,354,926; Oct. 5; v. 279; p. 96.
Thomas, Rosser. (See Midgett, Penelton G., assignor.)
Thomas Spark Plug Company. (See Thomas, William S., assignor.)
Thomas, Steve, Macclenny, Fla. Grapple-hook for skidding logs. No. 1,344,320; June 22; v. 275; p. 712.
Thomas, Theodore G., Houston, Tex. Signal-light. No. 1,334,191; Mar. 16; v. 272; p. 493.
Thomas, Theodore G., Houston, Tex. Truck. No. 1,345,564; July 6; v. 276; p. 47.
Thomas, Thomas D., Bethlehem, Pa. Metallic railway-tie. No. 1,362,903; Dec. 21; v. 281; p. 479.
Thomas, Thomas H., Edgewood, assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Car-door and brake control device. No. 1,346,859; July 20; v. 726; p. 422.
Thomas, Thomas H., Edgewood, assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Brake-valve device. No. 1,355,188; Oct. 12; v. 279; p. 200.
Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Automatic train-speed-control device. No. 1,355,189; Oct. 12; v. 279; p. 200.
Thomas, Walter and A. E. Mainwaring, Nanaimo, assignors to Fuel Conservation Company, Limited, Vancouver, British Columbia, Canada. Heat-generating furnace. No. 1,349,537; Aug. 10; v. 277; p. 327.
Thomas, Wilfred V., Catskill, N. Y. Self-oiling governor. No. 1,352,850; Sept. 14; v. 278; p. 257.
Thomas, William, Flint, Mich. Mop. No. 1,333,741; Mar. 16; v. 272; p. 409.
Thomas, William, assignor to Dempster Mill Manufacturing Company, Beatrice, Nebr. Apparatus for operating pumps. No. 1,329,560; Feb. 3; v. 271; p. 41.
Thomas, William E., and W. L. Furr, Charlotte, N. C. Knockdown reinforced-concrete tank. No. 1,334,192; Mar. 16; v. 272; p. 493.
Thomas, William G., West Pittston, Pa. Automobile-signal. No. 1,337,572; Apr. 20; v. 273; p. 488.
Thomas, William M., Los Angeles, Calif. Concrete structure. No. 1,327,889; Jan. 13; v. 270; p. 250.
Thomas, William M., Los Angeles, Calif. Reinforced-concrete bridge construction. No. 1,329,643; Feb. 3; v. 271; p. 56.
Thomas, William M., Los Angeles, Calif. Arch construction for concrete bridges. No. 1,356,025; Oct. 19; v. 279; p. 402.
Thomas, William M., New York, N. Y., assignor to Thomas-Oberkirch Company, Limited. Direct-vision view-finder for motion-picture cameras. No. 1,358,191; Sept. 21; v. 278; p. 384.
Thomas, William S., Lock Haven, Pa., assignor to Thomas Spark Plug Company, New York, N. Y. Spark-plug electrode. No. 1,359,767; Nov. 23; v. 280; p. 653.
Thomasen, Alfred W., Hartford, Conn. Flier for spinning purposes. No. 1,356,323; Oct. 19; v. 279; p. 462.
Thomassen, Gotfred J., West Philadelphia, Pa. Flexible pipe-joint. No. 1,344,834; June 29; v. 275; p. 879.
Thomason, Ernest K., assignor to Atlanta Utility Works, East Point, Ga. Roller-bearing eccentric. No. 1,333,883; Mar. 16; v. 272; p. 435.
Thomason, Hjalmar, Los Angeles Calif. Wheel and gear puller. No. 1,359,768; Nov. 23; v. 280; p. 653.
Thomassian, Daniel T., St. Paul, Minn. Wind instrument. No. 1,353,864; Sept. 28; v. 278; p. 561.
Thomasson, Hiram S., assignor, by mesne assignments, of two-thirds to C. D. Enochs, trustee, Minneapolis, Minn. Tank-heater. No. 1,329,063; Jan. 27; v. 270; p. 527.
Thomasson, Lewis T., Corinth, Miss. Garden-plow. No. 1,353,091; Sept. 14; v. 278; p. 304.
Thomburgh, Ivan D., Berkeley, assignor to American Can Company, San Francisco, Calif. Apparatus for assembling and securing ring-liners to can ends. No. 1,363,542; Dec. 28; v. 281; p. 643.
Thomisser, Joseph. (See Hoffman, C. M., and Thomisser.)
Thommen, Adolph A., Chicago, Ill. Blower. No. 1,327,218; Jan. 6; v. 270; p. 64.
Thommen, John P., assignor of one-half to J. E. Bell and one-half to J. S. Greenley, San Jose, Calif. Automobile-window. No. 1,363,376; Dec. 28; v. 281; p. 611.
Thompson, Albert R. (See Low, D., and Thompson.)
Thompson, Albert R., Tacoma, Wash. Tire-mold. No. 1,354,227; Sept. 28; v. 278; p. 635.
Thompson, Albert R., assignor to Anderson-Barn-Grover Mfg. Co., San Jose, Calif. Fruit and vegetable washer. No. 1,352,393; Sept. 7; v. 278; p. 130.
Thompson, Albert R., assignor to Anderson-Barn-Grover Mfg. Co., San Jose, Calif. Syruper. No. 1,355,015; Oct. 5; v. 279; p. 112.
Thompson, Albert R., assignor to Anderson-Barn-Grover Mfg. Co., San Jose, Calif. Filling-valve for syrupers. No. 1,355,016; Oct. 5; v. 279; p. 112.
Thompson, Albert W., Lowell, and E. W. Comfort, Winchester, assignors to The G. M. Parks Company, Fitchburg, Mass. Vaporizing device. No. 1,339,303; May 4; v. 274; p. 120.
Thompson, Alexander, executor. (See Howard, Elverton I.)
Thompson, Andrew F., Wellington, Kans. Nut-lock. No. 1,341,604; May 25; v. 274; p. 763.
Thompson, Andrew J., Alton, N. H. Steam-turbine. No. 1,345,285; June 29; v. 275; p. 964.
Thompson, Arnold, and H. J. S. Dennison, Toronto, Ontario, Canada. Hand-grenade. No. 1,327,451; Jan. 6; v. 270; p. 106.
Thompson, Arnold K. (See Thompson, Carl T., and A. K.)
Thompson, Archibald R., Cleveland, Ohio. Heating apparatus. No. 1,357,598; Nov. 2; v. 280; p. 75.
Thompson, Arthur B., Seattle, Wash. Piston packing-ring. No. 1,360,820; Nov. 30; v. 280; p. 928.
Thompson, Benjamin L., Roanoke, Va. Electric-light-bulb stabilizer. No. 1,348,970; Aug. 10; v. 277; p. 214.
Thompson, Burchard D., Cyclone, Pa. Air-compressor. No. 1,345,973; July 6; v. 276; p. 128.
Thompson, Carl T. and A. K., Fitchburg, Mass. Rubber shoe. No. 1,361,926; Dec. 14; v. 281; p. 286.
Thompson, Charles, Toronto, Ontario, Canada. Contact-tip for contact-fingers for electrical controllers and switches. No. 1,330,561; Feb. 10; v. 271; p. 259.

Digitized by Google

Alphabetical list of patentees—Continued.

Thompson, Charles E. (See Garman, H. B., and Buck, assignors.)
Thompson, Charles E. (See Garman, Harry B., assignor.)
Thompson, Charles E., assignor of one-half to T. J. Hill, New York, N. Y. Wheel-lock. No. 1,353,117; Sept. 14; v. 278; p. 309.
Thompson, Charles X. (See Perry, N. G., Hulting and Thompson.)
Thompson, Clarence W., Wilmington, Del. Vehicle-spring. No. 1,329,561; Feb. 3; v. 271; p. 41.
Thompson, Clarence W., Wilmington, Del. Vehicle-spring. No. 1,363,541; Dec. 28; v. 281; p. 643.
Thompson, Don L., Spokane, Wash. Bath-cabinet. No. 1,342,474; June 8; v. 275; p. 221.
Thompson, Earl A., Gresham, Oreg. Hydraulic engine. No. 1,328,974; Jan. 27; v. 270; p. 521.
Thompson, Eddie G., Devils Lake, N. D. Valve-grinding tool. No. 1,352,638; Sept. 14; v. 278; p. 214.
Thompson, Emory A., Hope, Ark. Vehicle-wheel. No. 1,352,639; Sept. 14; v. 278; p. 214.
Thompson, Frank E., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Pin-tumbler lock. No. 1,340,804; May 18; v. 274; p. 538.
Thompson, Frank P., *et al.* (See Bredsvold, Paul A., assignor.)
Thompson, Frank S. (See Royce, Sidney G., assignor.)
Thompson, Fredrick B., Chicago, Ill. Film-treating apparatus. No. 1,328,464; Jan. 20; v. 270; p. 395.
Thompson, George. (See Lundell, A. E., and Thompson.)
Thompson, George E., and P. A. Udall, Stockton, Calif. Fluid-pressure transmission. No. 1,354,228; Sept. 28; v. 278; p. 635.
Thompson, George H., Summerland, assignor of one-half to L. O. De Rieux, Santa Barbara, Calif. Trap-gun. No. 1,343,066; June 8; v. 275; p. 338.
Thompson, George K., Maplewood, N. J., assignor to American Telephone and Telegraph Company. Registering-circuits for coin-boxes. No. 1,340,260; May 18; v. 274; p. 435.
Thompson, George K., Maplewood, N. J., assignor to American Telephone and Telegraph Company. Telephone-transmitter. No. 1,354,229; Sept. 28; v. 278 p. 635.
Thompson, George S., assignor to James H. Matthews & Company, Pittsburgh, Pa. Die and die-carrier. No. 1,359,934; Nov. 23; v. 280; p. 685.
Thompson, George T., Washington, D. C. Light-projecting apparatus. No. 1,339,304; May 4; v. 274; p. 120.
Thompson, George W., Cheboygan, Mich. Valve. No. 1,339,798; May 11; v. 274; p. 290.
Thompson, Harry E. (See Butler, R. T., and Thompson.)
Thompson, Harry E., Three Rivers, Mich., assignor to Fairbanks, Morse & Co., Chicago, Ill. Standpipe. No. 1,328,857; Jan. 27; v. 270; p. 498.
Thompson, Harry E., and P. L. Bunn, Three Rivers, Mich, assignors, by mesne assignments, to Fairbanks, Morse & Co., Chicago, Ill. Standpipe. No. 1,342,516; June 8; v. 275; p. 229.
Thompson, Harry E., R. B. Linsley, and M. H. Rix, Three Rivers, Mich., assignors, by mesne assignments, to Fairbanks, Morse & Co. Standpipe. No. 1,338,846; May 4; v. 274; p. 86.
Thompson, Harry M. (See Taylor, Asa J., Jr., assignor.)
Thompson, Harry W., assignor of one-half to W. M. Finkbeiner and one-fourth to L. Freeling, Philadelphia, Pa. Skin-stretching frame. No. 1,358,183; Nov. 9; v. 280; p. 250.
Thompson, Henry A., Manchester, England. Actuating signals on and communicating with trains. No. 1,327,441; Jan. 6; v. 270; p. 98.
Thompson, Henry B., assignor to L. B. Koch, New York, N. Y. Cinematograph-target. No. 1,334,975; Mar. 30; v. 272; p. 747.
Thompson, Henry E., Newark, N. J. Awning device. No. 1,346,351; July 13; v. 276; p. 264.
Thompson, Henry G., London, assignor to Hugh Stevenson & Sons Limited, Manchester, England. Container. No. 1,345,036; June 29; v. 275; p. 916.
Thompson, Henry L., Melrose Park, Pa. Billhead. No. 1,330,730; Feb. 10; v. 271; p. 290.
Thompson, Herbert, Foxcroft, Me. Game. No. 1,348,335; Aug. 3; v. 277; p. 41.
Thompson, Herbert A. (See Smith, L. E., Zulver, and Thompson.)
Thompson, Herbert H., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Gyroscopic apparatus for ships. No. 1,330,503; Feb. 10; v. 271; p. 248.
Thompson, Herbert L., Elgin, Ill. Internal-combustion engine. No. 1,342,976; June 8; v. 275; p. 320.
Thompson, Herbert L., assignor to Elgin Gas Motor Company, Elgin, Ill. Gas-engine. No. 1,342,977; June 8; v. 275; p. 320.
Thompson, Herbert L., assignor to Elgin Gas Motor Company, Elgin, Ill. Carbureter. No. 1,345,516; July 6; v. 276; p. 37.
Thompson, Herbert L., assignor to The Maytag Company, Newton, Iowa. Spark control and governor for internal-combustion engines. No. 1,343,943; June 22; v. 275; p. 639.
Thompson, Herbert L., Elgin, Ill., assignor to The Maytag Company, Newton, Iowa. Internal-combustion engine. No. 1,351,880; Sept. 7; v. 278; p. 34.
Thompson, Herbert L., Elgin, Ill., assignor to The Maytag Company, Newton, Iowa. Feed device for internal-combustion engines. No. 1,359,289; Nov. 16; v. 280; p. 511.
Thompson, Hiram H., Davenport, Iowa. Transmission mechanism. No. 1,358,895; Nov. 16; v. 280; p. 438.
Thompson, Hugh L., Kansas City, Mo. Device for applying liquid coatings to elongated bodies. No. 1,346,726; July 13; v. 276; p. 338.
Thompson, J. D., administrator. (See Thompson, William H.)
Thompson, James E., and F. A. Melton, Washington, D. C. Light for automobile license-tags. No. 1,360,821; Nov. 30; v. 280; p. 928.
Thompson, James H., Harrisonville, Mo. Pilot for caterpillar-type tractors. No. 1,331,403; Feb. 17; v. 271; p. 485.
Thompson, James M., Buffalo, N. Y. Construction of ships. No. 1,352,998; Sept. 14; v. 278; p. 287.
Thompson, James T., Washington, D. C. Lighting-fixture. No. 1,340,261; May 18; v. 274; p. 435.
Thompson, James W., Wichita, Kans. Shelf-clamp. No. 1,343,515; Mar. 9; v. 272; p. 305.
Thompson, Jesse W. (See Nielsen, A. S., and Thompson.)
Thompson, John A., Webb, Saskatchewan, Canada. Separable fastener. No. 1,332,697; Mar. 2; v. 272; p. 100.
Thompson, John E., Paisley, Ontario, Canada. Aeroplane-propeller. No. 1,332,528; Mar. 2; v. 272; p. 68.
Thompson, John S., Chicago, Ill. Type-casting machine. No. 1,345,286; June 29; v. 275; p. 965.
Thompson, John T., *et al.* (See Cummings, Henry H., assignor.)
Thompson, John T. (See Putnam, Burleigh, assignor.)
Thompson, John T., Newport, Ky. Gun-barrel. No. 1,329,444; Feb. 3; v. 271; p. 19.
Thompson, John T., Newport, Ky. Portable signal device. No. 1,334,059; Mar. 16; v. 272; p. 469.
Thompson, John T., Newport, Ky., assignor of one-half to T. F. Ryan, New York, N. Y. Obturating firing-pin. No. 1,345,565; July 6; v. 276; p. 47.
Thompson, John T., Newport, Ky., assignor of one-half to T. F. Ryan, New York, N. Y. Tubular fuselage. No. 1,346,923; July 20; v. 276; p. 450.
Thompson, John T., Newport, Ky., assignor of one-half to T. F. Ryan, New York, N. Y. Buffer. No. 1,351,141; Aug. 31; v. 277; p. 819.
Thompson, John T., Newport, Ky., assignor of one-half to T. F. Ryan, New York, N. Y. Cartridge. No. 1,353,118; Sept. 14; v. 278; p. 309.
Thompson, John T., Newport, Ky., assignor of one-half to T. F. Ryan, New York, N. Y. Gun. No. 1,359,635; Nov. 23; v. 280; p. 626.
Thompson, John T., Newport, Ky., assignor of one-half to T. F. Ryan, New York, N. Y. Gun. No. 1,363,696; Dec. 28; v. 281; p. 673.
Thompson, John T., Newport, Ky., and H. H. Cummings, Newton, Mass.; said Cummings assignor, by mesne assignments, of one-half to T. F. Ryan, New York, N. Y. Cartridge-magazine. No. 1,353,092; Sept. 14; v. 278; p. 304.
Thompson, John W. (See Callow, J. M., Thompson, and Terry.)
Thompson, John W. (See Talley, J. E., and Thompson.)
Thompson, John W., Superior, Ariz., assignor to Metals Recovery Company, New York, N. Y. Sulfidation and flotation of ores. No. 1,334,721; Mar. 23; v. 272; p. 639.
Thompson, John W., Superior, Ariz., and J. T. Terry, Jr., Salt Lake City, Utah, assignors to The Metals Recovery Company, New York, N. Y. Sulfidation and flotation of minerals. No. 1,334,720; Mar. 23; v. 272; p. 638.
Thompson, Joseph W., Carbonado, assignor to E. Duffey, Seattle, Wash. Grease-gun attachment. No. 1,339,237; May 4; v. 274; p. 109.
Thompson, Le Roy. (See Foster, Guy T., assignor.)
Thompson, Louis W. (See Murphy, E. J., and Thompson.)
Thompson, Louis W., Schenectday, N. Y., assignor to General Electric Company. Regulating system for alternating-current circuits. No. 1,337,854; Apr. 20; v. 273; p. 542.
Thompson, Louis W., Schenectady, N. Y., assignor to General Electric Company. Regulating system for alternating-current circuits. No. 1,337,855; Apr. 20; v. 273; p. 542.
Thompson, Louis W., Schenectady, N. Y., assignor to General Electric Company. Regulating system. No. 1,360,822; Nov. 30; v. 280; p. 928.
Thompson, Mary I. (See St. Onge, Alexander, assignor.)
Thompson, Mat R., Chicago, Ill. Disk flange attachment to autos and trailers. No. 1,352,561; Sept. 14; v. 278; p. 199.
Thompson, Nathaniel A., Kansas City, Kans., assignor to Rock Hill Paint and Cloth Company. Mineral paint-pigment. No. 1,347,191; July 20; v. 276; p. 488.
Thompson, O. A. (See Adams, John J., assignor.)
Thompson, Oliver H., Brookings, S. D. Torpedo-guard. No. 1,328,549; Jan. 20; v. 270; p. 411.
Thompson, Orrin, Neenah, Wis. Phonograph needle or stylus sharpener. No. 1,334,818; Mar. 23; v. 272; p. 658.
Thompson, Orville W., Chicago, Ill. Gage. No. 1,339,989; May 11; v. 274; p. 327.

Digitized by Google

Thompson, Perry D., Tulsa, Okla. Chain-hook. No. 1,353,676; Sept. 21; v. 278; p. 480.
Thompson, Robert A., and L. P. Morris, assignors to International Manufacturing Company of Texas, Dallas, Tex. Churn. No. 1,340,466; May 18; v. 274; p. 474.
Thompson, Robert A., and L. P. Morris, assignors to International Manufacturing Company of Texas, Dallas, Tex. Churning device. No. 1,343,532; June 15; v. 275; p. 493.
Thompson, Robert B. (See Shafer, Frank B., assignor.)
Thompson, Robert L., Troup, Tex. Sod cutting and disintegrating machine. No. 1,349,926; Aug. 17; v. 277; p. 474.
Thompson, Robert O., Campbell Hall, N. Y. Railway. No. 1,359,205; Nov. 16; v. 280; p. 495.
Thompson, Roy E. (See Avery, F. C., and Thompson.)
Thompson, Roy E., New York, N. Y. Radio-receiving apparatus. No. 1,328,933; Jan. 27; v. 270; p. 513.
Thompson, Roy W., Seattle, Wash. Stick-candy-cutting mechanism. No. 1,355,017; Oct. 5; v. 279; p. 118.
Thompson, Roy W., Seattle, Wash. Stick-candy twister. No. 1,355,018; Oct. 5; v. 279; p. 113.
Thompson, Russell G., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Locomotive construction. No. 1,344,740; June 29; v. 275; p. 860.
Thompson, Scott M., U. S. Navy. Gun control. No. 1,342,475; June 8; v. 275; p. 221.
Thompson, Theodore F., Badger township, Webster county, Iowa. Trap-nest. No. 1,354,523; Oct. 5; v. 279; p. 15.
Thompson, Thomas, Howe, Okla. Carbid-lamp. No. 1,334,570; Mar. 23; v. 272; p. 611.
Thompson, Thomas A., Rochester, N. Y. Pruning implement. No. 1,362,273; Dec. 14; v. 281; p. 305.
Thompson, Thomas H., Spring City, Utah. Combined harrower and leveler. No. 1,364,007; Dec. 28; v. 281; p. 733.
Thompson, Thomas L., Chetek, Wis. Reel for holding barbed or other wire. No. 1,343,067; June 8; v. 275; p. 338.
Thompson, Walter V., Los Angeles, assignor to A. G. Walters, Laguna, Calif. Limb-support. No. 1,355,579; Oct. 12; v. 279; p. 275.
Thompson, William, *et al.* (See Fow, Raymond S. C., assignor.)
Thompson, William B. (See Pope, Frederick J., assignor.)
Thompson, William B., Los Gatos, Calif. Automobile-signal. No. 1,331,832; Feb. 24; v. 271; p. 587.
Thompson, William B., New York, N. Y. Spring-retainer. No. 1,333,353; Mar. 9; v. 272; p. 275.
Thompson, William D., assignor to Hutchins Car Roofing Company, Detroit, Mich. Car-roof. No. 1,346,281; July 13; v. 276; p. 250.
Thompson, William H., deceased, Memphis, Tenn.; J. D. Thompson, administrator, assignor, by mesne assignments, to R. T. Van Riper, Dallas, Tex. Prepay time-controlled-service apparatus. No. 1,339,634; May 11; v. 274; p. 260.
Thompson, William I., Stoneham, Mass. Liquid-heater. No. 1,355,867; Oct. 19; v. 279; p. 372.
Thompson, William L., Greenville, Miss. Printing-machine. No. 1,330,662; Feb. 10; v. 271; p. 277.
Thompson, William L., Greenville, Miss. Printing-machine. No. 1,331,597; Feb. 24; v. 271; p. 542.
Thompson, William L., Greenville, Miss. Printing-machine. No. 1,360,155; Nov. 23; v. 280; p. 729.
Thompson, William L., and W. E. Elam, Greenville, Miss. Steering device for motor-vehicles. No. 1,332,313; Mar. 2; v. 272; p. 26.
Thompson, William P., Liverpool, England. Flying-machine. No. 1,351,976; Sept. 7; v. 278; p. 52.
Thompson, Willis M., assignor of two-fifths to William Connors, Chicago, Ill. Purse-lock. No. 1,363,291; Dec. 28; v. 281; p. 595.
Thompson's Malted Food Company. (See Shutterly, Acallious E., assignor.)
Thomsen, Johan H. E., Hollis, N. Y. Automobile accessory. No. 1,333,516; Mar. 9; v. 272; p. 305.
Thomson, Albert R., Plantsville, assignor of one-half to N. Rinfrett, Southington, Conn. Antiskidding device. No. 1,360,599; Nov. 30; v. 280; p. 884.
Thomson, Albert R., Plantsville, assignor of one-half to N. Rinfrett, Southington, Conn. Antiskidding device. No. 1,360,600; Nov. 30; v. 280; p. 885.
Thomson, David M., Toronto, Ontario, Canada. Support for penholders. No. 1,359,548; Nov. 23; v. 280; p. 609.
Thomson Electric Welding Company. (See Barstow, George E., assignor.)
Thomson Electric Welding Company. (See Enger, Thorbjorn K., assignor.)
Thomson Electric Welding Company. (See Gravell, James H., assignor.)
Thomson Electric Welding Company. (See Remington, Wolcott, assignor.)
Thomson Electric Welding Company. (See Rietzel, Adolph F., assignor.)
Thomson Electric Welding Company. (See Sander, Jacob C., assignor.)
Thomson Electric Welding Company. (See Thomson, Elihu, assignor.)
Thomson, Electric Welding Company. (See Von Henke, Edmund J., assignor.)
Thomson, Electric Welding Company. (See Woofter, Herbert A., assignor.)
Thomson, Elihu, Swampscott, assignor to Thomson Electric Welding Company, Lynn, Mass. Electric metal-working apparatus. No. 1,334,571; Mar. 23; v. 272; p. 611.
Thomson, Elihu, Lynn, Mass., assignor to General Electric Company. Making nitric acid. No. 1,337,106; Apr. 13; v. 273; p. 326.
Thomson, Enos E., Cleveland, Ohio. Jack. No. 1,359,849; Nov. 23; v. 280; p. 668.
Thomson, John, *et al.* (See Biette, Henry C., assignor.)
Thomson, John, Brooklyn, N. Y. Electric furnace. No. 1,351,977; Sept. 7; v. 278; p. 52.
Thomson, John C., Chicago, Ill. Doughnut-making machine. No. 1,340,805; May 18; v. 274; p. 538.
Thomson, John E., Glen Ridge, N. J. Rear-axle differential for power-driven vehicles. No. 1,336,107; Apr. 6; v. 273; p. 76.
Thomson, Judson L. (See Havener, Arthur R., assignor.)
Thomson, Judson L., Mfg. Co. (See Havener, Arthur R., assignor.)
Thomson, Robert A., Berkeley, and G. Alvis, Oakland, Calif. Doll. No. 1,343,422; June 15; v. 275; p. 471.
Thomson Spot Welder Company. (See Cutter, George A., assignor.)
Thomson Spot Welder Company. (See Gravell, James H., assignor.)
Thomson, Stuart, deceased, U. S. Army; H. B. Boardman, administrator. Hammer-release for double-chamber-type bombs. No. 1,364,008; Dec. 28; v. 281; p. 733.
Thomson, Stuart, Washington, D. C., assignor to General Electric Company. Heating device and control therefor. No. 1,350,895; Aug. 24; v. 277; p. 708.
Thomson, William E., assignor of one-half to A. C. Baldwin, Jacksonville, Ill. Scraper for clothes-brushes. No. 1,337,856; Apr. 20; v. 273; p. 542.
Thomson, William I., Newark, N. J., assignor to Safety Car Heating & Lighting Company. Electrical apparatus. No. 1,336,764; Apr. 13; v. 273; p. 260.
Thone, Frank H., Bingham Canyon, Utah. Signal. No. 1,346,994; July 20; v. 276; p. 450.
Thordarson, Chester H., Chicago, Ill. Making insulating elements. No. 1,329,815; Feb. 3; v. 271; p. 88.
Thordarson, Chester H., Chicago, Ill. Transformer-mounting. No. 1,335,803; Apr. 6; v. 273; p. 19.
Thordarson, Chester H., Chicago, Ill. Transformer. No. 1,338,884; May 4; v. 274; p. 43.
Thordarson, Chester H., Chicago, Ill. Machine for cutting magnetic-circuit laminæ. No. 1,356,178; Oct. 19; v. 279; p. 434.
Thorell, Swan O., Denver, Colo. Foldable square. No. 1,340,125; May 11; v. 274; p. 353.
Thorens, Hermann, Ste. Croix, Switzerland. Friction-lighter. No. 1,359,003; Nov. 16; v. 280; p. 458.
Thoreson, Thornie C., Dawson, Minn. Vehicle-coupling. No. 1,354,589; Oct. 5; v. 279; p. 28.
Thorleipson, Thorleipus P., Stony Hill, Manitoba, Canada. Bombing devices. No. 1,364,009; Dec. 28; v. 281; p. 733.
Thorn, Earl, Clearfield, Pa. Manually-propelled wagon. No. 1,341,725; June 1; v. 275; p. 22.
Thorn & Hoddle Acetylene Company. (See Hoddle, Charles, assignor.)
Thornblade, George P. (See Kollin, Carl F., assignor.)
Thornburgh, John G., assignor to Swartz Electric Company, Indianapolis, Ind. Electric power system. No. 1,345,566; July 6; v. 276; p. 47.
Thornburgh Manufacturing Company, The. (See Babcock, H. C., and McCreary, assignors.)
Thorne Brothers. (See Anderson, Carl O., assignor.)
Thorne Brothers, Incorporated. (See Weaver, Ira A., assignor.)
Thorne, Frederick W., Chicago, Ill. Strap and fastening. No. 1,340,350. May 18; v. 274; p. 452.
Thorne, Herbert, Boxford, Mass. Sewing-machine attachment. No. 1,348,133; July 27; v. 276; p. 732.
Thorne, Robert H., and F. J. Miller, assignors to Darling Valve and Manufacturing Company, Williamsport, Pa. Indicator valve-post. No. 1,338,263; Apr. 27; v. 273; p. 689.
Thorne, Victor C., New York, N. Y., assignor, by mesne assignments, to The Cold Light Manufacturing Company, Inc. Luminous indicating device. No. 1,342,777; June 8; v. 275; p. 281.
Thorne, Victor C., New York, N. Y., assignor, by mesne assignments, to The Cold Light Manufacturing Company, Inc. Luminous indicating device. No. 1,342,778; June 8; v. 275; p. 281.
Thorness, Louis, Tacoma, Wash. Fruit-picker. No. 1,329,481; Feb. 3; v. 271; p. 26.
Thornhill, Edwin B., Ottawa, Ontario, Canada, assignor to The General Engineering Company, Inc., Salt Lake City, Utah. Flotation process. No. 1,338,264; Apr. 27; v. 273; p. 689.
Thornhill, James O., Jelle, Minn. Cotton-chopping machine. No. 1,348,764; Aug. 3; v. 277; p. 122.
Thornton, Arthur C. (See Copley, J. W., and Thornton.)
Thornton, Frank, Jr., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Spot-welding apparatus. No. 1,327,792; Jan. 13; v. 270; p. 232.

Digitized by Google

Thornton, Frank, Jr., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Control system for electric furnaces. No. 1,338,408; Apr. 27; v. 273; p. 716.

Thornton, Frank, Jr., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Control system for electric furnaces. No. 1,349,391; Aug. 10; v. 277; p. 298.

Thornton, Frank, Jr., Mansfield, Ohio, and F. F. Forshee, Flint, Mich., assignors to Westinghouse Electric Products Company. Electric heater. No. 1,362,060; Dec. 14; v 281; p. 263.

Thornton, Frank, Jr., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Thermostat system. No. 1,335,139; Mar. 30; v. 272; p. 779.

Thornton, Frank, Jr., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electric sadiron. No. 1,344,741; June 29; v. 275; p. 860.

Thornton, John E., West Hampstead, London, assignor to J. O. O'Brien, Manchester, England. Photographic printing. No. 1,360,156; Nov. 23; v. 280; p. 729.

Thornton, John E., London, assignor to J. O. O'Brien, Manchester, England. Cinematograph-film and making same. No. 1,361,783; Dec. 7; v. 281; p. 160.

Thornycroft, John E. (See Thornycroft, T. and J. E.)

Thornycroft, John E. and T., Westminster, England. Steering-gear for motor-boats. No. 1,362,450; Dec. 14; v. 281; p. 339.

Thornycroft, John I., and Company. (See Hampton, James, assignor.)

Thornycroft, Tom. (See Thornycroft, John E. and T.)

Thornycroft, Tom and J. E., Westminster, England. Gun for discharging bombs, shells, and other projectiles. No. 1,328,021; Jan. 13; v. 270; p. 275.

Thornycroft, Tom and J. E., Westminster, England. Gun for discharging projectiles by gases supplied thereto under pressure. No. 1,340,689; May 18; v. 274; p. 517.

Thoro Corporation, The. (See Wolters, Leon A., assignor.)

Thorold, Frederick W. (See Bannon, J., and Thorold.)

Thorold, Frederick W., Toronto, Ontario, Canada. Making and transporting solutions. No. 1,344,102; June 22; v. 275; p. 670.

Thoroman, William E., Dayton, Ohio. Measuring and indicating attachment for gasolene-dispensing pumps. No. 1,330,100; Feb. 10; v. 271; p. 178.

Thorp, William T., Hillsboro, Ill. Tatting-shuttle. No. 1,349,741; Aug. 17; v. 277; p. 440.

Thorpe, Charles D., Rock Island, Ill. Tapping device for barrels. No. 1,334,819; Mar. 23; v. 272; p. 658.

Thorpe, Herbert R., Holyoke, Mass. Stationery-package. No. 1,339,908; May 11; v. 274; p. 311.

Thorpe, Samuel T., assignor to The Horton Manufacturing Company, Bristol, Conn. Fishline-reel. No. 1,337,857; Apr. 20; v. 273; p. 543.

Thorpe, William H., Mount Vernon, N. Y. Tire-inflation signal. No. 1,357,009; Oct. 26; v. 279; p. 642.

Thorsgard, Henry, *et al.* (See Flagstad, Cornell, assignor.)

Thorsgard, Knut, *et al.* (See Flagstad, Cornell, assignor.)

Thorssell, Carl T. (See Holmgren, T. A. F., and Thorssell.)

Thorssell, Carl T., and H. L. R. Lundén, assignors to Aktiebolaget Kvafveindustri, Gottenborg, Sweden. Fixing nitrogen. No. 1,342,834; June 8; v. 275; p. 293.

Thorssell, Carl T., and H. L. R. Lundén, assignors to Aktiebolaget Kvafveindustri, Gottenburg, Sweden. Apparatus for the production of nitrogen products. No. 1,357,196; Oct. 26; v. 279; p. 678.

Thorton, Douglas. (See Cook, Elmer E., assignor.)

Thorward, Benjamin F. H., Cleveland, Ohio. Game apparatus. No. 1,327,072; Jan. 6; v. 270; p. 37.

Threadgill, Wilmer, Laredo, Tex. Machine for picking cotton. No. 1,340,577; May 18; v. 274; p. 495.

Three Leaf Cot Manufacturing Company. (See Clough, Alfred N., assignor.)

Threewits, Alvin M., Centerville, Ind. Grain-drill. No. 1,345,517; July 6; v. 276; p. 37.

Thring, Theodore, *et al.* (See Forse, Lyndall, assignor.)

Throop, Charles E., Buffalo, N. Y. Sheet-moving mechanism. No. 1,336,598; Apr. 13; v. 273; p. 229.

Throop, Damon R. (See Morris, Harry V., assignor.)

Throop, Damon R., Davis, Calif. Scraper. No. 1,330,359; Feb. 10; v. 271; p. 221.

Throop, William D., Norwich, Conn. Electric switch. No. 1,339,306; May 4; v. 274; p. 121.

Thropp, Joseph W., Trenton, N. J. Thrust-bearing. No. 1,337,028; Apr. 13; v. 273; p. 311.

Thropp, Joseph W., Trenton, N. J. Means for adjusting rolls. No. 1,352,999; Sept. 14; v. 278; p. 287.

Thum, George E., and M. Theimer, Elizabeth, N. J. Telephone-booth controller. No. 1,337,858; Apr. 20; v. 273; p. 543.

Thum, Otto C., New York, N. Y. Display carton. No. 1,358,659; Nov. 9; v. 280; p. 346.

Thum, William, Hammond, J. J. Mulligan, East Chicago, Ind., and H. M. Schleicher, Boston, Mass., assignors to United States Smelting, Refining & Mining Company. Making arsenical salts. No. 1,356,569; Oct. 26; v. 279; p. 556.

Thunberg, Frank. (See Anderson, Charles E., assignor.)

Thurlow, Edward W., Brighton, Victoria, Australia. Obtaining motor-fuels and light paraffin-oils from shale; and benzene, toluene, and solvent naphtha from coal. No. 1,343,100; June 8; v. 275; p. 345.

Thurmond, Herbert L., East Stanwood, Wash. Trailer. No. 1,330,289; Feb. 10; v. 271; p. 207.

Thurnau, Arthur F., assignor to Lawrence Airplane Model and Supply Company, Chicago, Ill. Toy aeroplane. No. 1,348,971; Aug. 10; v. 277; p. 215.

Thurston, Arthur L. (See Kirkham, Charles B., and Thurston.)

Thurston, Collie, and W. D. Miller, Sherman, Tex. Revolving harrow. No. 1,330,150; Feb. 10; v. 271; p. 182.

Thurston, Ernest B., assignor to The Haughton Elevator & Machine Co., Toledo, Ohio. Control and release device. No. 1,330,411; Feb. 10; v. 271; p. 231.

Thurston, Ernest B., assignor to The Haughton Elevator & Machine Co., Toledo, Ohio. Elevator-gate device. No. 1,330,412; Feb. 10; v. 271; p. 231.

Thurston, Ernest B., assignor to The Haughton Elevator and Machine Company, Toledo, Ohio. Alternating-current electromagnet. No. 1,352,926; Sept. 14; v. 278; p. 272.

Thurston, Ernest B., assignor to The Haughton Elevator and Machine Company, Toledo, Ohio. Electric switch. No. 1,352,927; Sept. 14; v. 278; p. 272.

Thurston, Ernest B., assignor to The Haughton Elevator & Machine Co., Toledo, Ohio. Progressive manufacture conveyers. No. 1,352,928; Sept. 14; v. 278; p. 272.

Thurston, Fred W. (See Bernay, Henri, assignor.)

Thurston, Thomas G. O., and A. Hiley, assignors, by mesne assignments, to Vickers Pontoons Limited, Westminster, London, England. Pontoon for raising sunken vessels. No. 1,341,289; May 25; v. 274; p. 702.

Thust, George J., Milwaukee, Wis. Method and apparatus for making reinforced box-walls. No. 1,358,126; Nov. 9; v. 280; p. 239.

Thwing, Charles B., assignor to Thwing Instrument Company, Philadelphia, Pa. Compensating device for thermo-couples. No. 1,344,462; June 22; v. 275; p. 741.

Thwing, Charles B., assignor to Thwing Instrument Company, Philadelphia, Pa. Recording device. No. 1,358,806; Nov. 16; v. 280; p. 438.

Thwing, Charles B., assignor to Thwing Instrument Company, Philadelphia, Pa. Inking apparatus. No. 1,360,823; Nov. 30; v. 280; p. 928.

Thwing Instrument Company. (See Thwing, Charles B., assignor.)

Tibbels, Myron E., Fremont, Ohio. Steam-hammer attachment. No. 1,330,922; Feb. 17; v. 271; p. 395.

Tibbetts, Fred O., Henry, Ill. Flytrap. No. 1,338,113; Apr. 27; v. 273; p. 661.

Tibbetts, George W., Winthrop, Mass. Banker's booklet. No. 1,331,598; Feb. 24; v. 271; p. 542.

Tibbetts, Milton, assignor to Packard Motor Car Company, Detroit, Mich. Signaling device for motor-vehicles. No. 1,327,124; Jan. 6; v. 270; p. 46.

Tibbetts, Milton, assignor to Packard Motor Car Company, Detroit, Mich. Vehicle-wheel. No. 1,330,222; Feb. 10; v. 271; p. 196.

Tibbetts, Milton, assignor to Packard Motor Car Company, Detroit, Mich. Coupling device. No. 1,332,962; Mar. 9; v 272; p. 202.

Tibbetts, Milton, assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,335,589; Mar. 30; v. 272; p. 852.

Tibbetts, Milton, assignor to Packard Motor Car Company, Detroit, Mich. Making gears. No. 1,336,493; Apr. 13; v. 273; p. 208.

Tibbs, Joseph B., assignor of one-half to T. Tibbs, Tibbs, Miss. Cotton-picking machine. No. 1,346,282; July 13; v. 276; p. 251.

Tibbs, Thomas. (See Tibbs, Joseph B., assignor.)

Tice, John T., West Point, Ga. Rack. No. 1,335,621; Mar. 30; v. 272; p. 868.

Tice, John T., Manchester, Ga. Calendar-rack. No. 1,361,508; Dec. 7; v. 281; p. 107.

Tice, Percival S., Detroit, Mich. Furnishing explosive mixture to internal-combustion engines. No. 1,348,066; July 27; v. 276; p. 720.

Tickerhoof, George A., South Fork, Pa. Rail-joint. No. 1,331,293; Feb. 17; v. 271; p. 464.

Tidd, Charles L. (See March, C. M., and Tidd.)

Tidd Recording Clock Company. (See Tidd, Walter J., assignor.)

Tidd, Walter J., assignor to Tidd Recording Clock Company, Springfield, Mass. Watchman's time-recorder. No. 1,340,578; May 18; v. 274; p. 495.

Tideman, Pieter G. (See Dominicus, Cornelis, assignor.)

Tideman, Sven, Columbus, Ohio. Chronometer-escapement. No. 1,336,263; Apr. 6; v. 273; p. 106.

Tiefel, Charles G. (See Todd, L. M., and Tiefel.)

Tiefel, Charles G. (See White and Tiefel.)

Tiefel, Charles G., assignor to Todd Protectograph Company, Inc., Rochester, N. Y. Check-writing machine. No. 1,350,428; Aug. 24; v. 277; p. 618.

Tiefel, Charles G., assignor to Todd Protectograph Company, Inc., Rochester, N. Y. Check-writer. No. 1,353,437; Sept. 21; v. 278; p. 431.

Tiefenbrun, Katherine M., St. Louis, Mo. Covering for condensed-milk cans. No. 1,349,591; Aug. 17; v. 277; p. 410.

Digitized by Google

Tiemann, George, assignor of eleven per cent. to F. A. Muentnich, Joliet, Ill. Egg-case. No. 1,351,708; Aug. 31; v. 277; p. 931.
Tiencken, Wiley E., Mount Pleasant, S. C. Safety-pin. No. 1,353,093; Sept. 14; v. 278; p. 304.
Tiernan, Martin F. (See Wallace, C. F., and Tiernan.)
Tiernan, Martin F. (See Wallace, Charles F., assignor.)
Tierney, Philip W. (See Robertson, J. H., and Tierney.)
Tiernon, Luke B., Pine Lawn, and P. J. Kamuf, Wellston, Mo. Saw-set. No. 1,361,927; Dec. 14; v. 281; p. 236.
Tietz, William, Toledo, Ohio. Dehairing apparatus. No. 1,327,073; Jan. 6; v. 270; p. 37.
Tiffany, George S., Summit, N. J., assignor to Telautograph Corporation, Richmond, Va. Telautographic apparatus. No. 1,326,994; Jan. 6; v. 270; p. 22.
Tiffany, Louis L., Roslindale, Mass., assignor of one-half to T. McGoldrick, Lincoln, N. H. Incorrect-position-indicator for pianos. No. 1,343,595; June 15; v. 275; p. 505.
Tiffin, John, assignor of one-half to W. Goodill, Detroit, Mich. Automatic safety device for air-compressors. No. 1,358,798; Nov. 16; v. 280; p. 418.
Tiffin, Vandevere, Tacoma, assignor to Combo Manufacturing Co., Seattle, Wash. Convertible furniture. No. 1,340,467; May 18; v. 274; p. 474.
Tigerman, William H. (See Smith, Josiah H., assignor.)
Tilden, Bert O., assignor to American Sanitary Works, Trenton, N. J. Water-closet bowl. No. 1,362,061; Dec. 14; v. 281; p. 263.
Tilden, Bert O., assignor to American Sanitary Works, Trenton, N. J. Water-closet bowl. No. 1,362,062; Dec. 14; v. 281; p. 263.
Tilley, Frederick C., London, England. Vapor-burner and lamp. No. 1,360,824; Nov. 30; v. 280; p. 928.
Tillinghast, James A., Providence, R. I. Apparatus for electrical transmission of intelligence by wire. No. 1,353,000; Sept. 14; v. 278; p. 287.
Tillinghast, Joseph H., San Francisco, Calif. Wool-scouring apparatus. No. 1,359,769; Nov. 23; v. 280; p. 653.
Tillinghast, Wallace E., Auburn, R. I. Vacuum and return steam-trap. No. 1,339,074; May 4; v. 274; p. 79.
Tillman, Clarence W., assignor to Winchester Repeating Arms Co., New Haven, Conn. Reel-mount. No. 1,339,238; May 4; v. 274; p. 109.
Tillman, Ferdinand J., assignor to Typewriting Calculating Attachment Company, St. Louis, Mo. Calculating-machine. No. 1,353,293; Sept. 21; v. 278; p. 403.
Tillman, Ferdinand J., assignor to Typewriter Calculating Attachment Company, St. Louis, Mo. Calculating attachment for typewriting-machine. No. 1,358,263; Nov. 9; v. 280; p. 265.
Tillman, Joseph, Sauk Center, Minn. Drag-lifter. No. 1,341,159; May 25; v. 274; p. 677.
Tillotson, Harry C. (See Ritter, G. F., and Tillotson.)
Tillotson Manufacturing Company. (See Ritter, G. F., and Tillotson, assignors.)
Tillson, Edwin D., Evanston, Ill. Lighting device. No 1,360,825; Nov. 30; v. 280; p. 929.
Tillson, Edwin D., assignor to Associated Engineers Company, Chicago, Ill. Lamp-guard. No. 1,349,392; Aug. 10; v. 277; p. 298.
Tillyer, Edgar D. (See Bugbee, L. W., and Tillyer.)
Tillyer, Edgar D., assignor to American Optical Company, Southbridge, Mass. Lens. No. 1,340,189; May 18; v. 274; p. 422.
Tillyer, Edgar D., assignor to American Optical Company, Southbridge, Mass. Lens. No. 1,356,670; Oct. 26; v. 279; p. 576.
Tillyer, Edgar D., and L. W. Bugbee, assignors to American Optical Company, Southbridge, Mass. Lens-grinder. No. 1,347,766; July 27; v. 276; p. 660.
Tilney, Mary G., Mobile, Ala. Flower-holder. No. 1,344,526; June 22; v. 275; p. 754.
Tilton, Edgar C. (See Frisbie, J. M., and Tilton.)
Timanus, Eugene H., assignor of one-half to D. D. Towers, Baltimore, Md. Shuttle-retainer for looms. No. 1,354,704; Oct. 5; v. 279; p. 52.
Timar, John N., Warren, Ohio. Animal-trap. No. 1,335,304; Mar. 30; v. 272; p. 809.
Timberlake, Daniel T., St. Louis, assignor to Universal Motor Truck and Traction Engine Company, St. James, Mo. Power-driven-truck steering-gear. No. 1,354,148; Sept. 28; v. 278; p. 619.
Timberlake, George B., St. Louis, Mo. Spring-wheel. No. 1,349,019; Aug. 10; v. 277; p. 224.
Timberlake, Paul J., Jackson, Mich. Jar-holder. No. 1,330,663; Feb. 10; v. 271; p. 277.
Time-Systems Company. (See Hale, Charles B., assignor.)
Timken-Detroit Axle Company, The. (See Alden, Herbert W., assignor.)
Timken-Detroit Axle Company, The. (See Weaver, Robert B., assignor.)
Timken Roller Bearing Company, The. (See Lothrop, Marcus T., assignor.)
Timken Roller Bearing Company, The. (See McQuaid, Harry, assignor.)
Timken Roller Bearing Company, The. (See Reifsnyder, Joseph H., assignor.)
Timm, William A., Berwyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Liquid distributing system. No. 1,341,447; May 25; v. 274; p. 733.
Timmerman, Frederick W., St. Louis, Mo. Cotton-picker's sack. No. 1,361,203; Dec. 7; v. 281; p. 44.
Timmis, Albert H., Harrow, England. Sorting into lengths or dragging bristles, hair, and the like. No. 1,347,921; July 27; v. 276; p. 690.
Timmons, Edward J., St. Louis, Mo. Light attachment for fishing-tackle. No. 1,337,292; Apr. 20; v. 273; p. 436.
Timmons, John S. (See Swain, B. O., and Timmons.)
Timmons, John S., New York, N. Y. Telephone apparatus. No. 1,329,029; Jan. 27; v. 270; p. 531.
Timmons, John S., New York, N. Y. Telephone head set. No. 1,354,524; Oct. 5; v. 279; p. 15.
Timmons, Robert F., Coshocton, Ohio. Safety-lock for wire wheels. No. 1,357,010; Oct. 26; v. 279; p. 643.
Timmons, Sanford L., Des Moines, Iowa. Traction-engine. No. 1,342,779; June 8; v. 275; p. 282.
Timosci, Antonio T., San Jose, Calif. Kettle. No. 1,336,869; Apr. 13; v. 273; p. 281.
Timosci, Antonio T., San Jose, Calif. Washboiler. No. 1,347,354; July 20; v. 276; p. 521.
Timosci, Antonio T., San Jose, Calif. Oil-burner. No. 1,349,479; Aug. 10; v. 277; p. 315.
Timpany, Lewis J., Taco Taco, Cuba. Voting-machine. No. 1,328,550; Jan. 20; v. 270; p. 412.
Timson, Harry M. (See Timson, Samuel and H. M.)
Timson, Samuel and H. M., assignors of one-half to Thomas Morley and Frederick W. Morley, Leicester, England. Circular-knitting machine. No. 1,358,264; Nov. 9; v. 280; p. 266.
Tin Decorating Company, The. See Gerhardt, Leonard, assignor.)
Tin Decorating Company. (See Hermani, H., and Auld, assignors.)
Tin Decorating Company of Baltimore, The. (See Wilcox, Josiah T., assignor.)
Tiner, John F., assignor of one-half to S. West 2d, Uvalde, Tex. Bail for cans, buckets, &c. No. 1,360,056; Nov. 23; v. 280; p. 709.
Tinius Olsen Testing Machine Company. (See McAdam, Dunlap J., Jr., assignor.)
Tinius Olsen Testing Machine Company. (See Malysheff, Alexander P., assignor.)
Tinius Olsen Testing Machine Company, The. (See Hayes, H. C., and Lewis, assignors.)
Tinker, Ralph, Little York, Ill. Steering means for tractors and other vehicles. No. 1,353,192; Sept. 21; v. 278; p. 384.
Tinney, James R., Phoenix, Ariz. Plow. No. 1,330,360; Feb. 10; v. 271; p. 221.
Tinsley, Clarence B., Cleveland, Ohio. Motorcycle-stand. No. 1,347,355; July 20; v. 276; p. 521.
Tipograph, Carl M., New York, N. Y. Sweatband. No. 1,357,263; Nov. 2; v. 280; p. 12.
Tipping, Thomas, Chicago, Ill. Garment-hanger. No. 1,334,976; Mar. 30; v. 272; p. 748.
Tipton, Clint B., Tiptonville, Tenn. Cotton-picker's sack. No. 1,337,859; Apr. 20; v. 273; p. 543.
Tirodor, John, *et al.* (See Beshenich, Matija, assignor.)
Tirrill, Allen A., Pittsburgh, Pa. Electrical compensator. No. 1,344,743; June 29; v. 275; p. 861.
Tirrill, Allen A., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical regulators. No. 1,339,936; May 11; v. 274; p. 317.
Tirrill, Allen A., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical compensator. No. 1,344,742; June 29; v. 275; p. 861.
Tischer, Edward R., assignor of forty-five per cent. to G. Emmert, Houston, Tex. Gin. No. 1,327,845; Jan. 13; v. 270; p. 242.
Tisdell, Frank J., assignor of one-fourth to C. B. Davis, and one-half to Gregory & Read Co., Lynn, Mass. Top-lift-burnishing machine. No. 1,349,863; Aug. 17; v. 277; p. 463.
Tisdell, Thomas A., Birmingham, England. Spring. No. 1,331,539; Feb. 24; v. 271; p. 581.
Tissue Company, The. (See Teall, Oliver E., assignor.)
Titan Co. A/S. of Norway. (See Farup, Peder, assignor.)
Titan Co., A/S. (See Goldschmidt, Victor M., assignor.)
Titan Co. A/S. (See Jebsen, Gustav, assignor.)
Titan Co., A/S. (See Nielsen, R., and Goldschmidt, assignors.)
Titan Co. A/S (See Olsen, H., and Förland, assignors.)
Titanium Alloy Manufacturing Company, The. (See Barton, Louis E., assignor.)
Titanium Pigment Company. (See Barton, L. E., and Gardner, assignors.)
Titeflex Metal Hose Corporation. (See Brinkham, Louis H., assignor.)
Titeflex Metal Hose Corporation. (See Fulton, William H., assignor.)
Titmus, Richard A. (See Witt, William H., assignor.)
Tittemore, Frank A. (See Murphy, Charles A., assignor.)
Titus, Frank M., Bradford, Pa., assignor to The United States and Cuban Allied Works Engineering Corporation. Pressure throttle control. No. 1,348,604; Aug. 3; v. 277; p. 92.
Titus, John E. (See Henig, A. J., and Titus.)
Titus, William A., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Outlet-box. No. 1,333,003; Mar. 9; v. 272; p. 210.
Tjader, Margaret. (See House, Frank R., assignor.)

Tobacco Treating Co., The. (See Buensod, Alfred C., assignor.)
Tobias, Abraham, assignor to S. T. Metal Stamping Company, New York, N. Y. Name-plate. No. 1,355,714; Oct. 12; v. 279; p. 301.
Tobias, John M., Pittsburgh, Pa. Stove. No. 1,348,972; Aug. 10; v. 277; p. 215.
Tobias, Leon, New York, N. Y. Shaving-brush. No. 1,358,597; Nov. 9; v. 280; p. 383.
Tobin, James H., Erie, Pa. Fruit-jar holder. No. 1,360,826; Nov. 30; v. 280; p. 929.
Tod, George H., and E. H. Beck, Toronto, Ontario, Canada. Spacing device. No. 1,338,800; May 4; v. 274; p. 28.
Toda, Tomokichi, Kaijo, Korea, assignor of one-half to T. Takato, Nagoya City, Japan, and one-half to H. Gunji, Iwate, Japan. Pin-anchor escapement for timepieces. No. 1,343,798; June 15; v. 275; p. 546.
Todd, Alexander B., San Francisco, Calif. Separator. No. 1,348,252; Aug. 3; v. 277; p. 25.
Todd, Alonzo E., Plattsmouth, Nebr. Sanitary non-freezing hog-trough. No. 1,329,939; Feb. 3; v. 271; p. 111.
Todd, Daniel M., assignor to Elgin Street Sweeper Co., Elgin, Ill. Street-sweeper. No. 1,348,605; Aug. 3; v. 277; p. 92.
Todd, E. N., Milburn, and W. R. King, assignors to The Hanson & Van Winkle Company, Newark, N. J. Nickel plating. No. 1,352,328; Sept. 7; v. 278; p. 118.
Todd, Evander, Winn, Ala. Boiler-patch. No. 1,327,846; Jan. 13; v. 270; p. 242.
Todd, Frederick D. (See Coyle, Joseph L., assignor.)
Todd, George B., Brown Hill, S. C. Refrigerator-car construction. No. 1,330,361; Feb. 10; v. 271; p. 221.
Tobler, Henri, Hackensack, assignor to American Bromine Company, Maywood, N. J. Sulfuric and haloid acids. No. 1,332,581; Mar. 2; v. 272; p. 78.
Todd, J. E., *et al.* (See Harp, William I.)
Todd, James T. A., Fort Worth, Tex. Bale-tie buckle. No. 1,328,698; Jan. 20; v. 270; p. 439.
Todd, John H., Cleveland, Ohio. Laundry-checking device. No. 1,343,423; June 15; v. 275; p. 471.
Todd, Libanus M., assignor to Todd Protectograph Company, Rochester, N. Y. Check-protector. No. 1,335,207; Mar. 30; v. 272; p. 791.
Todd, Libanus M., and A. C. La May, assignors, by mesne assignments, to Todd Protectograph Company, Rochester, N. Y. Checkwriter. No. 1,328,773; Jan. 20; v. 270; p. 453.
Todd, Libanus M., and C. G. Tiefel, assignors, by mesne assignments, to Todd Protectograph Company, Rochester, N. Y. Check-writer. No. 1,353,618; Sept. 21; v. 278; p. 468.
Todd Protectograph Company. (See Johanson, Magnus H., assignor.)
Todd Protectograph Company. (See La May, Arthur C., assignor.)
Todd Protectograph Company. (See Mittendorf, William R., assignor.)
Todd Protectograph Company. (See Sampson, Charles H., assignor.)
Todd Protectograph Company. (See Tiefel, Charles G., assignor.)
Todd Protectograph Company. (See Todd, L. M., and Tiefel, assignors.)
Todd Protectograph Company. (See Todd, Libanus M., assignor.)
Todd Protectograph Company. (See Todd and La May, assignors.)
Todd Protectograph Company. (See White and Tiefel, assignors.)
Todd, R. B., *et al.* (See Harp, William I.)
Todenwarth, Walter W., Roselle, assignor of one-half to C. E. Pryor, Jersey City, N. J. Hydrocarbon-burner. No. 1,336,798; Apr. 13; v. 273; p. 267.
Todhunter, Richard T., H. A. Duke, and A. Woods, Barnesboro, Pa. Trolley-hanger. No. 1,342,034; June 1; v. 275; p. 82.
Todhunter, William J., Chicago, Ill. Scrap-cutter. No. 1,349,020; Aug. 10; v. 277; p. 244.
Todhunter, William J., Chicago, Ill. Slabbing-mill. No. 1,349,021; Aug. 10; v. 277; p. 224.
Todoroff, Michael, Cassandra, Pa. Cigarette-box. No. 1,356,671; Oct. 26; v. 279; p. 576.
Toelle, Walter H., Wallingford, Conn. Lock-housing for screws and bolts. No. 1,339,075; May 4; v. 274; p. 80.
Toennesen, Peter S. (See Kallom, F. W., and Toennesen.)
Tofft, Cecilia A., Mount Ida, Ark. Lawn-mower. No. 1,338,199; Apr. 27; v. 273; p. 677.
Tohtz, Helmuth W. (See Brecht, F. v., and Tohtz.)
Tohtz, Helmuth W. (See Brecht, Frank v., and Tohtz.)
Tokanos, Frank, Long Branch, N. J. Automobile safety-signal. No. 1,352,039; Sept. 7; v. 278; p. 63.
Tokash, Julia, McDowell, W. Va. Flytrap. No. 1,352,562; Sept. 14; v. 278; p. 199.
Tokheim Oil Tank and Pump Company. (See Burns, Walter G., assignor.)
Toland, Mary H., Chattanooga, Tenn. Float-operated circuit-closer. No. 1,339,239; May 4; v. 274; p. 109.
Toland, Thomas L., Dallas, Tex. Adjustable book-cover. No. 1,354,354; Sept. 28; v. 278; p. 660.
Toland, Ward J., Dannemora, N. Y. Directory. No. 1,346,995; July 20; v. 276; p. 450.
Tolbert, Lillian M., Chicago, Ill. Container for liquids. No. 1,363,543; Dec. 28; v. 281; p. 643.
Tolchan, Alexander, Detroit, Mich. Filler-valve. No. 1,361,418; Dec. 7; v. 281; p. 88.
Toledo Machine & Tool Company, The. (See Lindgren, Bror J., assignor.)
Toledo Milling Machine Company. (See Waite, Lorenzo E., assignor.)
Toledo Parlor Furniture Company, The. (See De Does, Peter J., assignor.)
Toledo Rex Spray Company, The. (See Hedenburg, O. F., and Pratt, assignors.)
Toledo Scale Company. (See Bergen, Harry S., assignor.)
Toledo Scale Company. (See Crane, Samuel G., assignor.)
Toledo Scale Company. (See Dunn, Frank P., assignor.)
Toledo Scale Company. (See Hapgood, Clarence H., assignor.)
Toledo Scale Company. (See Hem, Halvor C., assignor.)
Toledo Scale Company. (See Paol, Elmer C., assignor.)
Toledo Scale Company. (See Pool, Elmer C., assignor.)
Toledo Scale Company. (See Thomas, Edward G., assignor.)
Toledo Scale Company. (See Reeves, Orwell C., assignor.)
Toledo Scale Company. (See Wetzel, Lewis C., assignor.)
Toledo Shower Company, The. (See Treese, George E., assignor.)
Toledo Standard Commutator Co., The. (See Sloan, Sebastian N., assignor.)
Toledo Standard Commutator Co., The. (See Van Dusen, Charles A., assignor.
Toles, Justin K., San Francisco, Calif. Belt-rail. No. 1,333,141; Mar. 9; v. 272; p. 235.
Toles, Justin K., San Francisco, Calif. Safety-razor. No. 1,337,166; Apr. 13; v. 273; p. 837.
Toles, Justin K., San Francisco, Calif. Water-heater. No. 1,333,229; Mar. 9; v. 272; p. 251.
Tolfree, Edward R. (See Stern, Louis J., assignor.)
Tolhurst, Louis H., Los Angeles, Calif. Fiber-cleaning machine. No. 1,331,170; Feb. 17; v. 271; p. 442.
Tolhurst, Louis H., Los Angeles, Calif. Fiber-rolling machine. No. 1,333,230; Mar. 9; v. 272; p. 252.
Tolhurst, Louis H., Los Angeles, Calif. Beater. No. 1,335,305; Mar. 30; v. 272; p. 809.
Tolhurst Machine Works. (See Bryson, Tandy A., assignor.)
Toll, Herman H., and F. C. Duff, Clarinda, Iowa. Combination washing-machine. No. 1,339,588; May 11; v. 274; p. 251.
Toll, Herman H., assignor to Clarinda Lawn Mower Company, Clarinda, Iowa. Driving mechanism for power washing-machines. No. 1,339,587; May 11; v. 274; p. 250.
Tollbom, Bernhard T., Samuels, Idaho. Autosled. No. 1,336,448; Apr. 13; v. 273; p. 200.
Tollerton, William J., Chicago, Ill. Hub-liner for journal-boxes. No. 1,338,340; Apr. 27; v. 273; p. 704.
Tolman, Charles P., New Rochelle, assignor to National Lead Company, New York, N. Y. Centrifugal separator. No. 1,358,897; Nov. 16; v. 280; p. 438.
Tolmon Print, Inc. (See Heard, Ralph G., assignor.)
Tolman Print. (See Sargent, Fred W., assignor.)
Tolman, Scott H., Boston, Mass. Aeroplane or hydro-aeroplane construction. No. 1,341,399; May 25; v. 274; p. 724.
Tolston, Elbert M., Macon, Ga., assignor of one-half to L. Lain, Bibb county, Ga. Grade-crossing guard. No. 1,362,650; Dec. 21; v. 281; p. 430.
Tomada, Jichio, Hynes, Calif. Speed-changing-gear system. No. 1,343,944; June 22; v. 275; p. 639.
Toman, E., and Company. (See Koranek, John, assignor.)
Tomaszak, Antoni, assignor of one-third to J. Waz, Cohoes, N. Y. Boiler. No. 1,351,142; Aug. 31; v. 277; p. 819.
Tomchin, Louis, Brooklyn, N. Y. Clasp for jewelry, &c. No. 1,361,645; Dec. 7; v. 281; p. 134.
Tomec, John J., Trenton, N. J. Linoleum. No. 1,345,810; July 6; v. 276; p. 95.
Tomer, John L., Murrysville, Pa. Mechanical movement. No. 1,361,646; Dec. 7; v. 281; p. 134.
Tomey, Earl H., Elnora, Ind. Corn-planter. No. 1,331,222; Feb. 17; v. 271; p. 451.
Tomkewitz, Emil A. (See Pearne, Tomkewitz, and Hansen.)
Tomkins, Edwin F., Coaticook, Quebec, Canada. Apparatus for the manufacture of lace-tips. No. 1,348,336; Aug. 3; v. 277; p. 41.
Tomlin, Edward A., Bonner Springs, Kans. Fastening device for antiskid-chains. No. 1,344,778; June 29; v. 275; p. 868.
Tomlinson, Arthur. (See Pilblad, E. J., and Tomlinson.)
Tomlinson, Charles H. (See Averill, R. G., and Tomlinson.)
Tomlinson, Clarence L., Portland, Oreg. Moving-picture machine. No. 1,332,238; Mar. 2; v. 272; p. 12.
Tomlinson, Clifford J., West Allis, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Pulverizer. No. 1,331,968; Feb. 24; v. 271; p. 612.
Tomlinson, Clifford J., West Allis, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Rotary impact-pulverizer. No. 1,331,969; Feb. 24; v. 271; p. 612.
Tomlinson, Edwin L., North Branch, Mich. Mud-guard. No. 1,355,715; Oct. 12; v. 279; p. 302.

Digitized by Google

Tomlinson, Elmer. (See Pinkerton, James W., and Tomlinson, assignor.)
Tomlinson, George E., Winchester, Ky. Flexible coupling. No. 1,353,677; Sept. 21; v. 278; p. 481.
Tomlinson, George H., Niagara Falls, Ontario, Canada. Producing fermentable sugars. No. 1,358,898; Nov. 16; v. 280; p. 438.
Tomlinson, William, St. Catharines, Ontario, Canada. Railway-tie. No. 1,345,287; June 29; v. 275; p. 965.
Tompkins, Edward D., New York, N. Y. Sawing apparatus. No. 1,349,698; Aug. 17; v. 277; p. 431.
Tompkins, Wallace W., New Albany, Ind. Internal-combustion engine. No. 1,334,684; Mar. 23; v. 272; p. 631.
Tompkinson, Charles C., Plainfield, N. J., assignor to J. E. Ogden, Mountainville, N. Y. Motor-door. No. 1,826,995; Jan. 6; v. 270; p. 22.
Tompson, John W., Oklahoma, Okla. Holder for sharpening razor-blades. No. 1,356,799; Oct. 26; v. 279; p. 601.
Tone, Frank J., assignor to The Carborundum Company, Niagara Falls, N. Y. Refractory article and making same. No. 1,362,274; Dec. 14; v. 281; p. 305.
Tonnette, Fred, Saginaw, Mich. Clothespin. No. 1,362,909; Dec. 21; v. 281; p. 480.
Toney, Jay, Omaha, Nebr. Door-lock. No. 1,338,713; May 4; v. 274; p. 12.
Tonge, James, Westhoughton, near Bolton, England. Hydraulic breaking-down appliance. No. 1,354,861; Oct 5; v. 279; p. 83.
Tonge, James L., Apponaug, R. I. Short-circuiting mechanism. No. 1,327,259; Jan. 6; v. 270; p. 71.
Tonkin, George A., assignor of one-half to P. Evans, London, England. Machine for molding concrete or like blocks. No. 1,347,356; July 20; v. 276; p. 521.
Tonkin, William R., Bisbee, Ariz. Vehicle-signal. No. 1,339,589; May 11; v. 274; p. 251.
Tonstad, Josephine, and H. Finsness, St. Paul, Minn. Flour-sifter. No. 1,347,064; July 20; v. 276; p. 464.
Tonnsen, Elibert B., Milwaukee, Wis. Ventilator. No. 1,332,239; Mar. 2; v. 272; p. 12.
Toof, Franklin P., Paducah, Ky. Mop frame and handle coupling. No. 1,347,563; July 27; v. 276; p. 619.
Toole, Walter M. (See Middleton, Alfred S., assignor.)
Toomey, John A., Los Angeles, Calif. Valve for internal-combustion engines. No. 1,350,479; Aug. 24; v. 277; p. 629.
Toomey, John F., New York, N. Y., assignor to American Telephone and Telegraph Company. Telephone toll-circuits. No. 1,348,909; Aug. 10; v. 277; p. 202.
Toomey, John F., New York, N. Y., assignor to American Telephone and Telegraph Company. Testing and adjusting apparatus for cord-circuits. No. 1,360,331; Nov. 30; v. 280; p. 832.
Toomey, John F., New York, N. Y., assignor to American Telephone & Telegraph Company. Testing-circuits. No. 1,360,332; Nov. 30; v. 280; p. 832.
Toomey, John F., assignor to American Telephone and Telegraph Company, New York, N. Y. Testing and adjusting apparatus for cord-circuits. No. 1,361,928; Dec. 14; v. 281: p. 286.
Toomey, John F., assignor to American Telephone and Telegraph Company, New York, N. Y. Monitoring-circuit for telephone-repeaters. No. 1,361,929; Dec. 14; v. 281: p. 237.
Toothaker, Fred E., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. No. 1,359,636; Nov. 23; v. 280; p. 626.
Tope, Walton S., London, Ohio. Hotbed-sash prop. No. 1,360,827; Nov. 30; v. 280; p. 929.
Topf, F. A., & Lochme. (See Wettig, Heinrich, assignor.)
Topheim Oil Tank and Pump Company. (See Eilers, Frank, assignor.)
Topping, Henry, Ashley, Ill. Saw-handle. No. 1,344,103; June 22; v. 275; p. 670.
Topping Manufacturing Co., The. (See Plice, Thomas V., assignor.) (Reissue.)
Torazzi, Mario F., Westminster, London, and R. G. Knoph, Walney, Barrow-in-Furness, assignors to The Kingsland Research Syndicate Limited, Westminster, England. Nut and bolt. No. 1,334,977; Mar. 30; v. 272; p. 748.
Torcy, Edgar J., Freeport, Ill. Pencil-point protector, adjustable eraser, and sharpener. No. 1,333,644; Mar. 16; v. 272; p. 391.
Torgerson, Carl O., Houston, Minn. Stake-holder. No 1,342,654; June 8; v. 275; p. 255.
Torgler, Fred T. (See Garnett, T. W., and Torgler.)
Tornberg, Knut, Lynn, Mass., assignor to General Electric Company. Electrode. No. 1,334,820; Mar. 23; v. 272; p. 658.
Torno, Karl L., Berkeley, assignor of one-half to F. R. Sweasey, San Francisco, Calif. Combined cement. No. 1,342,360; June 1; v. 275; p. 146.
Toro Motor Company. (See McCartney, Elmer B., assignor.)
Torosian, Kerkor, Manchester, N. H. Wall construction. No. 1,349,793; Aug. 17; v. 277; p. 449.
Torrens, John A., Muckamore, Ireland. Water-valve for carburetors and vaporizers of internal-combustion engines. No. 1,343,488; June 15; v. 275; p. 483.
Torrent, John, Jr., Muskegon, Mich. Resilient hub. No. 1,328,858; Jan. 27; v. 270; p. 498.
Torrent, John, Jr., Muskegon, Mich. Antifreeze device for radiators. No. 1,353,678; Sept. 21; v. 278; p. 481.
Torrey, Bates, Jr., Syracuse, N. Y., assignor to Semet-Solvay Company, Solvay, N. Y. Process of and apparatus for recovering the ammonia content of coal-gas. No. 1,349,393; Aug. 10; v. 277; p. 298.
Torrington Company, The. (See Altman, Alexander, assignor.)
Torrington Company, The. (See Baender, Charles L., assignor.)
Torrington Company, The. (See Davis, Charles W., assignor.)
Torrington Company, The. (See Graham, James H., assignor.)
Torrington Company, The. (See Maine, Monroe W., assignor.)
Torris Wold & Company. (See Cameron, William, assignor.)
Torsch, Edward L., *et al.* (See Holmes, Anderson M., assignor.)
Torsch, Edward L., and J. L. Sellar, Baltimore, Md. Oyster-shucking machine. No. 1,333,843; Mar. 16; v. 272; p. 428.
Toryowski, Josa, South St. Paul, Minn. Railway-switch No. 1,340,992; May 25: v. 274; p. 645.
Tosney, William F. (See Straub, Anselm, Jr., assignor.)
Tossell, Richard, Chicago, Ill. Bumper for motor-vehicle No. 1,354,633; Oct. 5; v. 279; p. 38.
Tost, Max, Detroit, Mich., assignor, by mesne assignments, to American Bosch Magneto Corporation, New York N. Y. Impulse-starting mechanism and operating same. No. 1,338,758; May 4; v. 274; p. 20.
Toston, Martha E. (See Bellows, Benjamin F., assignor.)
Toth, Steven, Los Angeles, Calif. Well-boring tool. No. 1,347,469; July 20; v. 276; p. 543.
Totman, Frank B., Los Angeles, Calif. Portable paving plant. No. 1,341,948; June 1; v. 275; p. 66.
Touchett, Roy E., Fond du Lac, Wis. Leather-marking apparatus. No. 1,350,346; Aug. 24; v. 277; p. 602.
Touchy, Frank E., Galveston, Tex. Speed-operated circuit-closer. No. 1,346,067; July 6; v. 276; p. 146.
Toups, Wilson, assignor of one-half to H. R. Minvielle, Jeanerette, La. Device for setting the shafts of saw-grinding machines. No. 1,337,293; Apr. 20; v. 273; p. 436.
Tourneur, Henri, Paris, France. Machine for making metal buttons. No. 1,347,235; July 20; v. 276; p. 496.
Tourtier, Paul A., New Orleans, La. Wheel. No. 1,329,213; Jan. 27; v. 270; p. 565.
Tousey, Sinclair, New York, N. Y. Device for aiming firearms. No. 1,340,579; May 18; v. 274; p. 495.
Tow, Samuel A., Walhalla, S. C. Pea-huller. No. 1,359,456; Nov. 16; v. 280; p. 545.
Towe, Edward, Rochester, N. Y. Concrete-insert. No. 1,359,290; Nov. 16; v. 280; p. 511.
Tower, Daniel W., assignor to Grand Rapids Brass Co., Grands Rapids, Mich. Latch construction. No. 1,351,222; Aug. 31; v. 277; p. 835.
Tower, De Witt, Spencer, Mass. Jar-opener. No. 1,357,914; Nov. 2; v. 280; p. 136.
Towers, Augustus R., Richmond, Va. Record and reference book. No. 1,329,562; Feb. 3; v. 271; p. 41.
Towers, Donigan D. (See Timanus, Eugene H., assignor.)
Towers, Jesse, Cornwall, Ontario, Canada, assignor to Draper Corporation, Hopedale, Mass. Warp-opening mechanism for looms. No. 1,344,067; June 22; v. 275; p. 663.
Towle, Elton L., Paterson, assignor of one-half to G. de Laval, Orange, N. J. Valve. No. 1,355,367; Oct. 12; v. 279: p. 235.
Towler, William, Lawrence, Mass. Weft-replenishing loom. No. 1,363,544; Dec. 28; v. 281; p. 644.
Towne, William R., San Francisco, Calif. Potato-seed planter. No. 1,327,971; Jan. 13; v. 270; p. 265.
Towner, Heber F., Santa Ana, Calif. Subsoiler-plow and the like. No. 1,362,155; Dec. 14; v. 281: p. 281.
Towner, Heber F., Santa Ana, and G. Dunton, Anaheim, Calif. Tractor draft-rigging. No. 1,362,154; Dec. 14; v. 281; p. 281.
Towner, Leroy H., Muskogee, Okla. Attachment for earth-working machines. No. 1,346,432; July 13; v. 276; p. 280.
Townill, George and P., Plainfield, Ill. Steel grain-car door. No. 1,328,214; Jan. 13; v. 270; p. 811.
Townill, George, P. Townill, and G. Sampson, Plainfield, Ill. Vehicle-hub wrench. No. 1,351,354; Aug. 31; v. 277; p. 862.
Townill, Peter. (See Townill, George and P.)
Townill, Peter. (See Townill, G. and P., and Sampson.)
Townley, William R., and P. H. Leahy, deceased, Canandaigua, N. Y.; D. A. Leahy administratrix. Automobile-steering-rod lock. No. 1,362,451; Dec. 14; v. 281; p. 339.
Towns, Albert, Ottertail, Minn. Canvas slat. No. 1,362,651; Dec. 21; v. 281; p. 430.
Townsend, Arthur J. (See Kinnear, H. B., and Townsend.)
Townsend, Arthur J., Canton, Ohio. Rolling-mill repeater. No. 1,343,652; June 15; v. 275; p. 516.
Townsend, Charles E., Norfolk, Va. Pocket toothbrush and dentifrice holder. No. 1,343,240; June 15; v. 275; p. 436.

Digitized by Google

Alphabetical list of patentees—Continued.

Townsend, Charles L. (See Runne, Henry G., assignor.)
Townsend, Clyde, Newport News, Va. Auto signal-arm. No. 1,342,007; June 1; v. 275; p. 77.
Townsend Company. (See De Lapotterie, Otto H., assignor.)
Townsend, Copeland, New York, N. Y. Combined rotary pump and motor. No. 1,338,265; Apr. 27; v. 273; p. 689.
Townsend, Delbert G., assignor to Hartman-Townsend Co., Indianapolis, Ind. Automobile panel-curtain. No. 1,345,901; July 6; v. 276; p. 113.
Townsend, Ernest A., Tuscaloosa, Ala. Dirigible headlight. No. 1,332,082; Feb. 24; v. 271; p. 683.
Townsend, Fred, assignor of one-half to J. R. Randall, Chicago, Ill. Peanut-blanching machine. No. 1,352,702; Sept. 14; v. 278; p. 227.
Townsend, Frederick H., Boston, Mass. Hide-stretching device. No. 1,355,928; Oct. 19; v. 279; p. 383.
Townsend, John R., South Bend, Ind. Electric switch. No. 1,337,628; Apr. 20; v. 273; p. 499.
Townsend, John S., assignor to Whiting Foundry Equipment Company, Harvey, Ill. Ladle-turning mechanism. No. 1,357,599; Nov. 2; v. 280; p. 75.
Townsend, Larmon G. (See Johnston, Omer W., assignor.)
Townsend, Layton W., Hamilton, Ontario, Canada. Folding suit-hanger. No. 1,349,022; Aug. 10; v. 277; p. 224.
Townsend, Layton W., assignor to H. A. Chilman, Hamilton, Ontario, Canada. Collapsible hanger. No. 1,346,922; July 20; v. 276; p. 436.
Townsend, William R. (See Davison, H., and Townsend.)
Townsend, William S., assignor to Guarantee Visible Measure Sales Company, Washington, D. C. Liquid-gage. No. 1,352,193; Sept. 21; v. 278; p. 384.
Townsley, Frederick A., Jersey City, N. J., assignor of one-half to T. Watts, Middletown, N. Y. Life-saving device for aeroplanes. No. 1,337,836; Apr. 20; v. 273; p. 444.
Towson, Morris S., and C. E. Cochran, Cleveland, Ohio. Industrial truck. No. 1,337,804; Apr. 20; v. 273; p. 532.
Toyo-Kagaku-Yakin-Kabushiki-Kaisha (The Oriental Chemical Metallurgic Company, Ltd.) (See Hisamoto, Junzo, assignor.)
Tozzi, Angelo M., Bayonne, N. J. Lead or crayon holder. No. 1,355,627; Oct. 12; v. 279; p. 284.
Trabert, Hermann, Brooklyn, N. Y. Walking doll. No. 1,335,804; Apr. 6; v. 273; p. 19.
Trace, Russell A., assignor to Buckeye Iron and Brass Works, Dayton, Ohio. Means for forming oil-cakes. No. 1,336,171; Apr. 6; v. 273; p. 88.
Trach, Joseph, Buchanan, Saskatchewan, Canada. Washhanger. No. 1,338,266; Apr. 27; v. 273; p. 690.
Trachte, Arthur F. (See Trachte, George A. and A. F.)
Trachte, George A. and A. F., Madison, Wis. Tank-heater. No. 1,334,978; Mar. 30; v. 272; p. 748.
Tractor Producing Corporation. (See Morton, Walter S., assignor.)
Tractor-Train Company. (See Moore, Henry N., assignor.) (Reissue.)
Tracy, Angie M., Ryan, Iowa. Flue-stopper. No. 1,340,090; May 11; v. 274; p. 345.
Tracy, Charles O., Norwich, Conn. Lock. No. 1,360,057; Nov. 23; v. 280; p. 710.
Tracy, Clarence O., Denver, Colo. Automatically-operating motor-driven carrier. No. 1,351,930; Sept. 7; v. 278; p. 43.
Tracy, Daniel F., Charleston, W. Va. Typographical machine. No. 1,363,066; Dec. 21; v. 281; p. 511.
Tracy, David D., Jackson, Mich. Mold for pipes or conduits. No. 1,329,730; Feb. 3; v. 271; p. 72.
Tracy, Hayden H., San Francisco, Calif. Steam-separator. No. 1,336,870; Apr. 13; v. 273; p. 281.
Tracy, Homer D., assignor to Barbour Flax Spinning Company, Paterson, N. J. Machine for forming tubular fabrics. No. 1,340,425; May 18; v. 274; p. 467.
Tracy, James J. (See Morse, L. H., and Tracy.) (Reissue.)
Tracy, James J. (See Morse, Lawrence H., assignor.)
Tracy, James J., Cleveland, Ohio. Hat-making machine. No. 1,339,305; May 4; v. 274; p. 120.
Tracy, Mearl V., Rolfe, Iowa, assignor of one-half to B. Kern, Rapid City, S. D. Animal-feeding device. No. 1,332,083; Feb. 24; v. 271; p. 634.
Traeger, Alfred. (See Spindler, Ferdinand G., assignor.)
Trahan, Clair A., Beaumont, assignor of one-half to T. Placette, Port Arthur, Tex. Burner. No. 1,326,996; Jan. 6; v. 270; p. 22.
Trainor, Alexander E., and R. F. Morris, Suisun City, Calif. Automobile-lifting device. No. 1,334,509; Mar. 23; v. 272; p. 599.
Trammell, Charles M., Lakeland, Fla., assignor of one-half to E. A. Henske, Washington, D. C. Device for holding extra wheels on bodies of automobiles. No. 1,350,896; Aug. 24; v. 277; p. 708.
Trammell, Charles M., Lakeland, Fla., assignor of one-half to E. A. Henske, Washington, D. C. Device for holding tires upon automobiles. No. 1,350,897; Aug. 24; v. 277; p. 708.
Trammell, Jefferson D., Fort Worth, Tex. Pipe of concrete and the like. No. 1,344,779; June 29; v. 275; p. 868.
Tranchant, Frank A. (See Long, Levett A., assignor.)
Trane, Reuben N., La Crosse, Wis. Centrifugal pump. No. 1,340,091; May 11; v. 274; p. 345.
Tranmer, Fred, assignor of one-half to W. A. Hills, Gordon, Nebr. Ankle-brace and arch-support. No. 1,336,001; Apr. 6; v. 273; p. 56.
Transit Vending Machine Company. (See Mann, James H., Jr., assignor.)
Transom Draft Gear Company. (See Westlake, C. T., and Shallenberger, assignors.)
Traphagen, Harry R., assignor to Emerson-Brantingham Company, Rockford, Ill. Raking device. No. 1,358,481; Nov. 9; v. 280; p. 310.
Traphagen, William E., assignor of one-half to P. Luis, Cleveland, Ohio. Vehicle-brake. No. 1,362,372; Dec. 14; v. 281; p. 324.
Trapp, Charles L., assignor of one-fourth to G. C. Donovan, Schuyler, and one-fourth to L. W. Gohr, Omaha, Nebr. Truck-dumping mechanism. No. 1,350,087; Aug. 17; v. 277; p. 506.
Trask, A. H., *et al.* (See Jochumsen, J., and Netcott, assignors.)
Traub Manufacturing Company, The. (See Bross, Ernest E., assignor.)
Traudt, William F., assignor to Taber Pump Company, Buffalo, N. Y. Mixing viscous materials. No. 1,355,190; Oct. 12; v. 279; p. 200.
Traupmann, Raymond J., assignor to Milwaukee Auto Engine & Supply Company, Milwaukee, Wis. Automobile-bumper. No. 1,338,048; Apr. 27; v. 273; p. 649.
Traupmann, Raymond J., assignor to Milwaukee Auto Engine & Supply Company, Milwaukee, Wis. Timer. No. 1,338,049; Apr. 27; v. 273; p. 649.
Trautman, Edward W., Long Beach, Miss. Toy. No. 1,351,075; Aug. 31; v. 277; p. 806.
Trautman, Ray, Minneapolis, Minn. Artificial hand. No. 1,362,156; Dec. 14; v. 281; p. 282.
Trautman, Walter G., assignor to The Cleveland Folding Machine Company, Cleveland, Ohio. Paper-conveying mechanism. No. 1,362,971; Dec. 21; v. 281; p. 491.
Travell, Warren, New York, N. Y. Grinding-machine. No. 1,333,946; Mar. 16; v. 272; p. 447.
Travell, Warren, New York, N. Y. Transfer mechanism. No. 1,333,947; Mar. 16; v. 272; p. 447.
Travell, Warren, New York, N. Y. Transfer mechanism. No. 1,333,948; Mar. 16; v. 272; p. 447.
Traver, Oliver C., Schenectady, N. Y., assignor to General Electric Company. Protective system. No. 1,341,486; May 25; v. 274; p. 741.
Travers, Charles J., Port Washington, Wis. Base for chairs, &c. No. 1,333,949; Mar. 16; v. 272; p. 447.
Travers, Ray, New London, assignor to The Wisconsin Chair Company, Fort Washington, Wis. Theater chair construction. No. 1,351,268; Aug. 31; v. 277; p. 844.
Travis, Clarence C. (See Antoine, A. D., and Travis.) (Reissue.)
Travis, Clayton H., Polo, Ill. Fertiliser-distributer. No. 1,340,806; May 18; v. 274; p. 538.
Travis, Don C. (See Barnes, G. W., and Travis.)
Travis, Don C., and F. Kusterle, assignors to Simmons Company, Kenosha, Wis. Bed-bottom hanger. No. 1,336,397; Apr. 6; v. 273; p. 131.
Travis, Don C., and C. A. Stuart, assignors to Simmons Company, Kenosha, Wis. Berth construction. No. 1,359,637; Nov. 23; v. 280; p. 626.
Travis, Homer H., Columbus, Ohio. Headlight. No. 1,338,599; Apr. 27; v. 273; p. 751.
Travis, Jeanie A., New York, N. Y. Umbilical-cord tie. No. 1,357,128; Oct. 26; v. 279; p. 666.
Travis, Thurlow, Brooklyn, N. Y. Fur-screen. No. 1,339,240; May 4; v. 274; p. 109.
Travis, Thurlow, Brooklyn, N. Y. Hat-flanging machine. No. 1,357,660; Nov. 2; v. 280; p. 87.
Traylor, Bruce W., Allentown, Pa. Internal-combustion engine. No. 1,360,828; Nov. 30; v. 280; p. 929.
Traylor Engineering & Manufacturing Company. (See Patten, Charles H., assignor.)
Traylor Engineering & Mfg. Co., The. (See Bernhard, Richard, assignor.)
Traylor Engineering & Mfg. Co. (See Hewes, Lewis J., assignor.)
Traylor, Wayne M. (See Ellis, Warren E., assignor.)
Traynor, John C., Buffalo, N. Y. Closure for water-bottles, &c. No. 1,331,294; Feb. 17; v. 271; p. 464.
Traynor, John C., Buffalo, N. Y. Closure for water-bottles, &c. No. 1,335,467; Mar. 30; v. 272; p. 889.
Traywick, Walter F., assignor of one-third to B. T. Bumgardners, and one-third to C. E. Ware, Belmont, N. C. Safety stop-motion for speeder-machines. No. 1,354,070; Sept. 28; v. 278; p. 603.
Trbojevich, Nikola. (See Olson, C. G., and Trbojevich.)
Treadwell, M. H., Company. (See Astrom, Carl P., assignor.)
Treanor, Christopher, Oakland, Calif. Street-indicator. No. 1,354,149; Sept. 28; v. 278; p. 619.
Treanor, James O., Miami, Ariz. Signal. No. 1,357,915; Nov. 2; v. 280; p. 136.
Trease, Howard. (See Stoler, E. W., and Trease.)
Treat, Clifford A. (See Luby, J. L., and Treat.)
Treat, Robert, Schenectady, N. Y., assignor to General Electric Company. System of power transmission. No. 1,328,485; Jan. 20; v. 270; p. 395.

Digitized by Google

Alphabetical list of patentees—Continued.

Tree, James N., Detroit, Minn. Bolster extension. No. 1,337,416; Apr. 20; v. 273; p. 459.
Treen, Roland J., Birmingham, England. Wheel for road-vehicle. No. 1,363,975; Dec. 28; v. 281; p. 726.
Treese, George E., assignor to The Toledo Shower Company, Toledo, Ohio. Shower and cleaning device. No. 1,344,008; June 22; v. 275; p. 652.
Trefileries & Laminours Du Havre, Anciens Etablissements Lazare Weiller Societe Cooperative De Rugles et la Canalisation Electrique Reunis. (See Roudy, Charles, assignor.)
Trefren, Frank E., Butte Falls, Oreg. Lumber-piling device. No. 1,343,799; June 15; v. 275; p. 546.
Tregillus, Harold G., Barrington, Ill. Girder. No. 1,330,771; Feb. 10; v. 271; p. 298.
Trego, Abner V., Mount Washington, Mo. Collapsible box. No. 1,337,167; Apr. 13; v. 273; p. 337.
Trego, Jennie C. (See Trego, Joseph P., Jr., assignor.)
Trego, Joseph P., administrator. (See Trego, Joseph P., Jr.)
Trego, Joseph P., Jr., deceased; J. P. Trego, administrator, assignor to J. C. Trego, Newton, Kans. Explosion-engine. No. 1,340,580; May 18; v. 274; p. 496.
Tregoning, William C., Cleveland, Ohio, assignor, by mesne assignments, to Benjamin Electric Manufacturing Company, Chicago, Ill. Electrical attachment-plug. No. 1,328,774; Jan. 20; v. 270; p. 458.
Tregoning, William C., Cleveland, Ohio, assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electrical-plug connector. No. 1,346,860; July 20; v. 276; p. 423.
Treiber, Boardman E., Syracuse, N. Y. Paper-fastener. No. 1,355,287; Oct. 12; v. 279; p. 219.
Treiber, Theodore R., assignor, by mesne assignments, to J. C. McFarland Company, Chicago, Ill. Gully-boot for pocket-billiard tables. No. 1,361,930; Dec. 14; v. 281; p. 237.
Treichel, Albert R., and E. J. Brock, St. Louis, Mo. Packing apparatus. No. 1,346,616; July 13; v. 276; p. 316.
Tremain, Charles. (See Becker, Robert A., assignor.)
Tremain, Charles. (See Fargo, Arthur H., assignor.)
Tremaine, Charles R. (See Rappold, F. A., and Tremaine.)
Tremblay, Patrick F., *et al.* (See Curran, William, assignor.)
Trembour, Max R., Watervliet, assignor, by mesne assignments, to Ludlum Electric Furnace Corporation, Albany, N. Y. Electric furnace. No. 1,333,950; Mar. 16; v. 272; p. 448.
Trembour, Max R., Watervliet, assignor, by mesne assignments, to Ludlum Electric Furnace Corporation, Albany, N. Y. Operating an electric furnace. No. 1,339,428; May 11; v. 274; p. 220.
Tremont Products Company. (See Smith, Raymond D., assignor.)
Trenholm, Catherine A., Woburn, Mass. Combined corset and brassière. No. 1,358,660; Nov. 9, v. 280; p. 346.
Trenis, Otis J., Washington, D. C. Combined identification device, tag-seal carrier, and front and rear light for motor-vehicles. No. 1,356,499; Oct. 19; v. 279; p. 495.
Trenkamp, Herman J., Cleveland, Ohio. Stove-oven entry. No. 1,355,868; Oct. 19; v. 279; p. 372.
Trenton Potteries Company. (See Hinsdale, Winfield E., assignor.)
Treo Company. (See Schloss, Meyer W., assignor.)
Trescott, Charles R., Chicago, Ill. Low-temperature cooking apparatus. No. 1,357,011; Oct. 26; v. 279; p. 643.
Tresler, Albert. (See Byrns, Odus E., assignor.)
Trevail, Edwin F., Johannesburg, Transvaal, South Africa. Advertising device. No. 1,355,716; Oct. 12; v. 279; p. 302.
Trevillian, Guy R., Cicero, Ill. Apparatus for molding plastic materials. No. 1,342,192; June 1; v. 275; p. 114.
Trevor, Robert E. B., *et al.* (See Slee, John, assignor.)
Trew, Arthur S., Portland, Oreg., assignor to Trew Tabulating Machine Company. Pneumatic card-distributing machine. No. 1,333,193; Mar. 9; v. 272; p. 245.
Trew, Arthur S., Portland, Oreg., assignor to Trew Tabulating Machine Company. Automatic pneumatic card-tabulating machine. No. 1,350,850; Aug. 24; v. 277; p. 700.
Trew, James S., assignor of one-half to H. C. Burke, Santa Ana, Calif. Ball-receptacle for pocket-billiard tables. No. 1,335,924; Apr. 6; v. 273; p. 41.
Trew Tabulating Machine Company. (See Trew, Arthur S., assignor.)
Triangle Ring Mfg. Company. (See Altschul, Benjamin, assignor.)
Tribble, Robert A., Cedarbluff, Miss. Vending apparatus. No. 1,350,088; Aug. 17; v. 277; p. 506.
Tri-City Steel Company. (See Hyle, Jacob A., assignor.)
Tricomi, Agatino, New York, N. Y. Sewing-machine attachment. No. 1,335,468; Mar. 30; v. 272; p. 839.
Triggs, Kenneth F., Dayton, Ohio. Thermo safety-valve. No. 1,346,791; July 13; v. 276; p. 352.
Trimbey, Edward J. (See Allen, C. H., and Trimbey.)
Trimble, Conolus Q. (See Youmans, Barton B., assignor.)
Trimble, Harry J. (See Gillespie, Thomas J., assignor.)
Trimble, Russell F., Elizabeth, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Assembly-tool. No. 1,363,933; Dec. 28; v. 281; p. 719.
Trimm, Leslie E., Brooklyn, N. Y. Tent and hammock. No. 1,343,800; June 15; v. 275; p. 546.
Triner, James M., Chicago, Ill. Scale. No. 1,352,104; Sept. 7; v. 278; p. 76.
Trinks, Charles L. W., assignor to Tate-Jones & Company, Inc., Pittsburgh, Pa. Recuperator. No. 1,342,072; June 1; v. 275; p. 90.
Trinks, Charles L. W., assignor to Tate-Jones & Company, Inc., Pittsburgh, Pa. Heating-furnace. No. 1,342,074; June 1; v. 275; p. 90.
Trinks, Charles L. W., assignor to Tate-Jones & Company, Inc., Pittsburgh, Pa. Furnace. No. 1,360,058; Nov. 23; v. 280; p. 710.
Trio Company. (See Schloss, Meyer W., assignor.)
Tripke, Paul, Jersey City, N. J. Combined egg-separator and juice-extractor. No. 1,327,929; Jan. 13; v. 270; p. 257.
Tripolitis, Themios, Cleveland, Ohio. Dispensing apparatus. No. 1,339,635; May 11; v. 274; p. 260.
Tripolitis, Themios, Cleveland, Ohio. Butter-dispensing device. No. 1,359,206; Nov. 16; v. 280; p. 496.
Tripp, Charles A., Wilmington, Del., assignor to Holcomb and Hoke M'f'g Co., Indianapolis, Ind. Cooling means for liquid-dispensing devices. No. 1,336,172; Apr. 6; v. 273; p. 89.
Tripp, Charles A., Wilmington, Del., assignor to Holcomb & Hoke Manufacturing Company, Indianapolis, Ind. Drain-pipe for liquid-dispensers. No. 1,352,640; Sept. 14; v. 278; p. 215.
Tripp, Guy H., Muskegon Heights, Mich. Sparker cutting-out and locking device. No. 1,359,291; Nov. 16; v. 280; p. 512.
Tripp, Henry C., Auburn, N. Y. Duplex cleaner for windshields. No. 1,339,241; May 4; v. 274; p. 109.
Tritle, John F., Schenectady, N. Y., assignor to General Electric Company. Control system. No. 1,357,746; Nov. 2; v. 280; p. 104.
Tritschler, Conrad J., Anerley, London, England. Stage-searchlight. No. 1,332,084; Feb. 24; v. 271; p. 634.
Tritschler, Conrad J., Anerley, London, England. Stage apparatus. No. 1,332,085; Feb. 24; v. 271; p. 634.
Triumph Cycle Company. (See Middleton, Edward C., assignor.)
Triumph Electric Company, The. (See Lebovici, Justin, assignor.)
Troche, William C., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Boot-tree. No. 1,360,059; Nov. 23; v. 280; p. 710.
Trohon, William G., Danvers, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Die. No. 1,328,347; Jan. 20; v. 270; p. 373.
Troja, Louis F., assignor of one-half to G. R. Ludolph, Kansas City, Mo. Shipping-tag. (Reissue.) No. 14,883; June 15; v. 275; p. 565.
Trojan Powder Company. (See Bronstein, J. B., and Waller, assignors.)
Trojan Powder Company. (See Snelling, Walter O., assignor.)
Trojan Powder Company. (See Snelling and Lams, assignors.)
Troll, Frederick J., assignor to The Loadometer Company, Baltimore, Md. Cushioning means for vehicles. No. 1,329,683; Feb. 3; v. 271; p. 63.
Troll, Frederick J., assignor to The Loadometer Company, Baltimore, Md. Load-indicator for vehicles. No. 1,329,684; Feb. 3; v. 271; p. 63.
Troll, Frederick J., assignor to The Loadometer Company, Baltimore, Md. Load-indicator. No. 1,329,685; Feb. 3; v. 271; p. 63.
Troll, Frederick J., assignor to The Loadometer Company, Baltimore, Md. Scale. No. 1,354,447; Sept. 28; v. 278; p. 679.
Trolle-Bonde, Gustaf, Trolleholm, Sweden. Sack and the like. No. 1,328,859; Jan. 27; v. 270; p. 498.
Trolle-Bonde, Gustaf, Trolleholm, Sweden. Apparatus for airing stored corn. No. 1,349,538; Aug. 10; v. 277; p. 327.
Trolle, Louis, assignor to American Metal Shoe Company, Racine, Wis. Footwear. No. 1,337,983; Apr. 20; v. 273; p. 567.
Tronconi, Jose F., Buenos Aires, Argentina. Canning food products. No. 1,348,824; Aug. 3; v. 277; p. 133.
Tronic, Max, Worcester, Mass. Washing-machine. No. 1,360,333; Nov. 30; v. 280; p. 832.
Tropenas Company. (See Muntz, G. M., and Roubieu, assignors.)
Trosch, Alfred, assignor to A. H. Ingle, Rochester, N. Y. Metal-working feeding mechanism. No. 1,336,108; Apr. 6; v. 273; p. 77.
Trosdahl, Knut. (See Arntzen, Anders, and Trosdahl.)
Trosien, Charles G., Pontiac, Mich. Lock for automobiles. No. 1,348,337; Aug. 3; v. 277; p. 41.
Trosien, Charles G., Pontiac, Mich. Gear-lock for automobiles. No. 1,353,119; Sept. 14; v. 278; p. 309.
Trosien, Charles G., Pontiac, Mich. Gear-lock for automobiles. No. 1,353,120; Sept. 14; v. 278; p. 309.
Trosien, Charles G., Pontiac, Mich. Automobile-lock. No. 1,361,784; Dec. 7; v. 281; p. 161.

Digitized by Google

Alphabetical list of patentees—Continued.

Trost, Jacob, New York, N. Y. Oxygen-gas burner. No. 1,359,128; Nov. 16; v. 280; p. 481.
Trott, Rolland S., Denver, Colo. Vehicle spring suspension. No. 1,327,746; Jan. 13; v. 270; p. 223.
Trott, Rolland S., Denver, Colo. Detachable counterbalance for motor crank-shafts. No. 1,350,269; Aug. 17; v. 277; p. 541.
Trott, Rolland S., Denver, Colo. Detachable counterbalance-weight for motor crank-shafts. No. 1,350,270; Aug. 17; v. 277; p. 541.
Trotta, Dominic A., New York, N. Y. Propulsion means. No. 1,338,115; Apr. 27; v. 273; p. 661.
Trotter, Albert, Loughton, England. Bed-table combined with cupboards or like receptacles. No. 1,349,023; Aug. 10; v. 277; p. 225.
Trotter, Joseph W., Birmingham, Ala. Manufacture of gasolene. No. 1,339,727; May 11; v. 274; p. 277.
Trotter, S. R. (See Rowe, J., assignor.)
Trottier, Rene E., Paris, France. System of riffling oscillating tables for the treatment of ores. No. 1,356,179; Oct. 19; v. 279; p. 434.
Trottnow, Carl F., Rock Island, Ill. Bottle-capping machine. No. 1,348,978; Aug. 10; v. 277; p. 215.
Trout, Harry M., Hamilton, Ohio. Hog-holding device. No. 1,343,506; June 15; v. 275; p. 505.
Trout, Silas E., Philadelphia, Pa. Filing device. No. 1,328,604; Jan. 20; v. 270; p. 422.
Trout, William H., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Gage mechanism. No. 1,355,288; Oct. 12; v. 279; p. 219.
Troutman, Dewey, Hawarden, Iowa. Ironing-board. No. 1,347,132; July 20; v. 276; p. 476.
Troutman, Frank E., Butler, Pa. Furnace-charging apparatus. No. 1,336,494; Apr. 13; v. 273; p. 208.
Troutman, Frank E., Butler, Pa. Casting-table for plate-glass. No. 1,343,014; June 8; v. 275; p. 328.
Trouts, Harry, Bridgeport, Conn. Anvil attachment. No. 1,349,927; Aug. 17; v. 277; p. 474.
Trowbridge, William S., assignor to American Steel Foundries, Chicago, Ill. Journal dust-guard. No. 1,350,429; Aug. 24; v. 277; p. 619.
Troy Carriage Sunshade Company, The. (See Dillingham, Frederick A., assignor.)
Troy Laundry Machinery Company. (See Balzer, Fritz, assignor.)
Troy Laundry Machinery Co. (See Bartholomew, W., and Balzer, assignors.)
Troy Laundry Machinery Company. (See Bartholomew, William, assignor.)
Troy Laundry Machinery Company. (See Hager, William R., assignor.)
Troy Laundry Machinery Company. (See Hoerger, John J., assignor.)
Troy Laundry Machinery Co. (See Hoting, Hans C., assignor.)
Troy Foundry & Machine Company. (See Sharp, Howard O., assignor.)
Troy, Matthew O., Pittsfield, Mass., assignor to General Electric Company. Production of core lamination-sections. No. 1,339,990; May 11; v. 274; p. 327.
Troy Wagon Works Company, The. (See Hudson, Warren R., assignor.)
Troye, Einar, Christiania, Norway. Sheet-piling. No. 1,341,949; June 1; v. 275; p. 66.
Troyer, Nelson, assignor of one-half to Seattle-Astoria Iron Works, Seattle, Wash. Machine for applying compound to can-tops. No. 1,352,641; Sept. 14; v. 278; p. 215.
Trubel, George, Chicago, Ill. Jar-closure fastener. No. 1,355,289; Oct. 12; v. 279; p. 219.
Trubenbach, Conrad D., Mount Vernon, and D. B. Sanneman, Brooklyn, N. Y., assignors to Perey Manufacturing Company, Inc. Turnstile. No. 1,339,076; May 4; v. 274; p. 80.
Truby, Franklin J., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,343,989; June 22; v. 275; p. 648.
Trucksess, Robert G., Millersville, Pa. Auditorium-chair. No. 1,344,216; June 22; v. 275; p. 691.
Trudeau, Maximillian O. (See Ross, E. T., and Trudeau.)
Trudel, Eugene P. O., and A. Ziani, Montreal, Quebec, Canada. Attachment for pumps. No. 1,334,330; Mar. 23; v. 272; p. 566.
Trudelle, John R., Chippewa Falls, Wis. Column construction. No. 1,350,686; Aug. 24; v. 277; p. 669.
Trueb, Rudolph O., Murray Hill Park, N. J. Implement for threading embroidery-beads. No. 1,335,805; Apr. 6; v. 273; p. 19.
Trueb, Rudolph O., Murray Hill Park, N. J. Embroidery-frame. No. 1,335,806; Apr. 6; v. 273; p. 19.
Trueblood, George L., Berkeley, Calif. Projecting apparatus. No. 1,349,640; Aug. 17; v. 277; p. 420.
Truesdell, Arthur E., Rutland, Vt., and L. F. Phillips, West Stockbridge, Mass. Rotary kiln. No. 1,350,750; Aug. 24; v. 277; p. 682.
Truesdell, George L., Redwood Falls, Minn. Spark-plug. No. 1,339,429; May 11; v. 274; p. 220.
Trufant, Walter E., Whitman, Mass. Cranberry-separator. No. 1,339,077; May 4; v. 274; p. 80.
Truffaut, Georges, Versailles, France. Product serving as a nitrifier, fertilizer, and insecticide. No. 1,347,798; July 27; v. 276; p. 666.
Trull, Lyman A., assignor of one-half to O. Heath, Brockton, Mass. Clamp for use in trimming boot and shoe heels. No. 1,336,002; Apr. 6; v. 273; p. 57.
Trullinger, Charles H., San Francisco, Calif. Combination eye-cup and container. No. 1,336,109; Apr. 6; v. 273; p. 77.
Trulock, George H., Los Angeles, Calif. Advertising device. No. 1,341,950; June 1; v. 275; p. 66.
Trumble, Milon J., Alhambra, Calif. Power-generator. No. 1,337,588; Apr. 20; v. 273; p. 481.
Trumble, Milon J., Alhambra, Calif. Steam-generator. No. 1,356,098; Oct. 19; v. 279; p. 417.
Trumble, Milon J., Alhambra, Calif. Vaporising device for internal-combustion engines. No. 1,359,292; Nov. 16; v. 280; p. 512.
Trumble, Milon J., Alhambra, Calif. Explosive-mixture-preparing device. No. 1,359,293; Nov. 16; v. 280; p. 512.
Trumble, Milon J., Alhambra, Calif. Tractor. No. 1,359,294; Nov. 16; v. 280; p. 513.
Trumble, Milon J., Alhambra, Calif. Gun. No. 1,359,295; Nov. 16; v. 280; p. 513.
Trumble, Milon J., Alhambra, Calif. Steam-boiler. No. 1,361,931; Dec. 14; v. 281; p. 237.
Trumble, Milon J., Alhambra, Calif., assignor to Shell Company of California. Apparatus for treating hydrocarbon oils. No. 1,349,794; Aug. 17; v. 277; p. 450.
Trumbo, James F., Pueblo, Colo. Flour-sifter. No. 1,357,129; Oct. 26; v. 279; p. 666.
Trumbull, Alexander H. (See Both, T. A. C., Trumbull, and Schoenberg.)
Trumbull, Alexander H., and T. A. Both, Stratford, Conn., assignors to The Connecticut Electric Manufacturing Company. Renewable cartridge-fuse. No. 1,334,572; Mar. 23; v. 272; p. 611.
Trumbull, Alexander H. and T. A., assignors to The Connecticut Electric Manufacturing Company, Stratford, Conn. Knife-blade switch. No. 1,354,525; Oct. 5; v. 279; p. 15.
Trumbull Electric Manufacturing Company, The. (See Broadwell, Harry M., assignor.)
Trumbull Electric Manufacturing Company. The. (See Getchell, Benjamin E., assignor.)
Trumbull Electric Manufacturing Company, The. (See Knudsen, Knud, assignor.)
Trumbull Electric Manufacturing Company, The. (See Stillman, Harry B., assignor.)
Trumbull Electric Manufacturing Company, The. (See Sutherland, Alexander E., assignor.)
Trumbull Electric Mfg. Co. (See Wheeler, Frank T., assignor.)
Trumbull, Harlowe E., Amesbury, Mass. Riveting-machine. No. 1,352,851; Sept. 14; v. 278; p. 257.
Trump, Edward N., Syracuse, N. Y., and F. Friedrichs, Detroit, Mich., assignors to Humphrey Gas Pump Company. Pump. No. 1,349,394; Aug. 10; v. 277; p. 299.
Trump, Edward N., and F. Friedrichs, Syracuse, N. Y., assignors to Humphrey Gas Pump Company. Pump. No. 1,349,395; Aug. 10; v. 277; p. 299.
Trumpour, Frederick J., Washington, D. C. Draft appliance. No. 1,353,094; Sept. 14; v. 278; p. 804.
Trumpour, Frederick J., Washington, D. C., assignor to N. D. Baker, Secretary of War. Attaching member for axle and caster housings for trucks. No. 1,338,657; Apr. 27; v. 273; p. 762.
Trundle, George T., Jr., assignor to The American Multigraph Company, Cleveland, Ohio. Milling-machine. No. 1,356,040; Nov. 9; v. 280; p. 222.
Trunk, Rudolf, Pforzheim, assignor to the Firm of Fr. Kammerer, Pforzheim, Baden, Germany. Wire for making chains and other articles of jewelry. No. 1,336,449; Apr. 13; v. 273; p. 200.
Truscon Steel Company. (See Plumb, Roy A., assignor.)
Truscott, Herbert W., Omaha, Nebr. Tractor. No. 1,340,306; May 18; v. 274; p. 443.
Truscott, Starr, Birmingham, Ohio. Ballonnet-gage. No. 1,345,417; July 6; v. 276; p. 18.
Tryon, Edward E., assignor to The Auto Supply Manufacturing Company, Hartford, Conn. Signal device. No. 1,354,355; Sept. 28; v. 278; p. 660.
Tsanoff, Stoyan V., Newark, N. J. Mold for bricks and blocks. No. 1,338,468; Apr. 27; v. 273; p. 727.
Tschache, Edward D., assignor to Washburn Crosby Company, Minneapolis, Minn. Conveying and tipping apparatus. No. 1,352,329; Sept. 7; v. 278; p. 118.
Tschache, Edward D., assignor to Washburn Crosby Company, Minneapolis, Minn. Elevator-booster for flour-conveyers. No. 1,361,294; Dec. 7; v. 281; p. 62.
Tscherne, Alois, Rorschach, Switzerland. Machine for cutting embroidery. No. 1,350,770; Nov. 23; v. 280; p. 653.
Tschudy, Frederick, Fairfield, Ala. Recovery of crude products from benzol light oils. No. 1,348,606; Aug. 3; v. 277; p. 92.
Tschudy, William, Port Huron, Mich. Method for controlling the efficiency of mercury-rectifiers. (Reissue.) No. 14,816; Mar. 9; v. 272; p. 821.
Tschunke, Reinhold, Breslau, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Producing salts of the N-methyl hexa-menthenetetramin. No. 1,336,709; Apr. 13; v. 273; p. 250.

Digitized by Google

Tse, Frank, Hongkong, China. Adjustable chair. No. 1,357,130; Oct. 26; v. 279; p. 666.
Tsekuras, George, Philadelphia, Pa. Cooking device. No. 1,336,599; Apr. 13; v. 273; p. 229.
Tsuchiyama, Naosaku, *et al.* (See Kojima, Edward M., assignor.)
Tsukamoto, Kizo, assignor to Kabushiki Kaisha Tsukamoto Denki Kenkyusho, Tokyo, Japan. Signal system for telephones. No. 1,355,191; Oct. 12; v. 279; p. 200.
Tsumura, George N., Mountain View, Calif. Nut-lock. No. 1,333,742; Mar. 16; v. 272; p. 409.
Tsutsumi, Muneyasu, Tsuruga Gun, Fukui Ken, Japan. Solid ink. No. 1,334,722; Mar. 23; v. 272; p. 639.
Tubal Corporation. (See McGall, Albert, assignor.)
Tubular-Rivet & Stud Company. (See Wakefield, Edward E., assignor.)
Tuck, Henry G., Sydney, New South Wales, Australia. Protective stopper for bottles. No. 1,331,730; Feb. 24; v. 271; p. 567.
Tuck, Robert G., Oakland, Calif. Garment-protector. No. 1,343,166; June 8; v. 275; p. 358.
Tucker, Albert Y., Mount Vernon, N. Y., and J. E. Congdon, Passaic, N. J., assignors to The New York Belting & Packing Company. Press for molding plastic articles. No. 1,332,963; Mar. 9; v. 272; p. 202.
Tucker, Arthur W., Tulsa, Okla. Fan-blade. No. 1,361,785; Dec. 7; v. 281; p. 161.
Tucker, Benjamin W. (See Herrmann, G. E., and Tucker.)
Tucker, Benjamin W. (See Schwarzenbach, A. J., and Tucker.)
Tucker, Benjamin W., South Orange, N. J., assignor to H. J. Kahrs, New York, N. Y. Clothespin-machine. No. 1,344,217; June 22; v. 275; p. 692.
Tucker, Benjamin W., South Orange, N. J., assignor to Corona Typewriter Company, Inc., Groton, N. Y. Typewriting-machine. No. 1,351,355; Aug. 31; v. 277; p. 862.
Tucker & Bonner. (See Tucker, Philip J., assignor.)
Tucker, Charles M., *et al.* (See Tucker, Ralph H., assignor.)
Tucker, Chas. L. (See Tucker, Mat A., assignor.)
Tucker, E. P., *et al.* (See Baker, Elbridge, assignor.)
Tucker, Edwin W., North Prairie, Wis. Wagon-brake. No. 1,340,743; May 18; v. 274; p. 526.
Tucker, Edwin W., North Prairie, Wis. Camera. No. 1,345,288; June 29; v. 275; p. 965.
Tucker, Emmitt M. (See Tucker, Jesse D. and E. M.)
Tucker, Frank W., Lynn, assignor to Francis A. Shea, Boston, Mass. Machine for stretching hides. No. 1,338,050; Apr. 27; v. 273; p. 649.
Tucker, Frank W., Lynn, assignor to F. A. Shea, Boston, Mass. Leather-working machine. No. 1,340,262; May 18; v. 274; p. 435.
Tucker, Frederick, Lafayette, Ala. Buggy-body. No. 1,343,068; June 8; v. 275; p. 339.
Tucker, Frederick D., *et al.*, trustees. (See Allen, J. M., Smith, and Tucker.)
Tucker, James E., Sacramento, Calif. Universal joint for drive-shafts. No. 1,362,652; Dec. 21; v. 281; p. 430.
Tucker, Jesse, Milwaukee, Wis. Button-sewing attachment for sewing-machines. No. 1,363,172; Dec. 21; v. 281; p. 531.
Tucker, Jesse D. and E. M., North Sacramento, Calif. Carbureter. No. 1,329,686; Feb. 3; v. 271; p. 68.
Tucker, Lawrence H., Norfolk, Va. Closure for containers, cans, or the like. No. 1,361,419; Dec. 7; v. 281; p. 88.
Tucker, Leonard M., Seattle, Wash. Manually-propelled vehicle. No. 1,346,727; July 13; v. 276; p. 338.
Tucker, Manford F., Rock River, Wyo. Mounting for sand-reels; No. 1,360,157; Nov. 23; v. 280; p. 730.
Tucker, Mat A., assignor of one-third to C. L. Tucker, Moore, Okla. Dirigible headlight. No. 1,352,394; Sept. 7; v. 278; p. 180.
Tucker, Melville E. A., New York, N. Y. Spring-motor. No. 1,347,603; July 27; v. 276; p. 627.
Tucker, Montravel H., Blanca, Colo. Weir for irrigation-ditches for measuring water. No. 1,352,929; Sept. 14; v. 278; p. 273.
Tucker, Philip J., assignor to Tucker & Bonner, Hartford, Conn. Radiator. No. 1,337,337; Apr. 20; v. 278; p. 444.
Tucker, Ralph H., assignor of one-third to E. S. Cameron and one-third to C. M. Tucker, Los Angeles, Calif. Air-lift pump. No. 1,334,638; Mar. 23; v. 272; p. 623.
Tucker, Robert W., Weston, Mass. Navigator's instrument. No. 1,345,280; June 29; v. 275; p. 965.
Tucker, Stanley. (See Edser, E., and Tucker, assignors.)
Tucker, Theodore, *et al.* (See Seymour, Mark L., assignor.)
Tucker, Thomas, Marseilles, Ill. Paper-stock reducing and conveying machine. No. 1,359,638; Nov. 23; v. 280; p. 626.
Tucker, William A., Austin, Tex. Liquid-fuel burner. No. 1,343,945; June 22; v. 275; p. 640.
Tucker, William S., Thames Ditton, England. Sound-detecting device. No. 1,351,356; Aug. 31; v. 277; p. 863.
Tudorov, Marko, San Francisco, Calif. Combination and key padlock. No. 1,355,084; Oct. 5; v. 279; p. 126.
Tuinder, Hendrik J., Amsterdam, Netherlands. Shoe-sole and laying out same No. 1,362,157; Dec. 14; v. 281; p. 282.
Tuisku, John, Fort Bragg, Calif. Saw-handle. No. 1,335,622; Mar. 30; v. 272; p. 868.
Tulek, William B., New York, N. Y. Fixture for use in cutter-grinding and similar operations. No. 1,352,703; Sept. 14; v. 278; p. 227.
Tullis, John L., assignor of one-half to J. N. Riley, J. P. Brundidge, E. Greening, A. Betts, and H. Alphy, Hope, Ark. Cloth-measuring machine. No. 1,345,811; July 6; v. 276; p. 95.
Tulloch, Thomas G., Westminster, London, England. Fluid-tight joints for steam-pipes and the like. No. 1,339,636; May 11; v. 274; p. 260.
Tully, Francis W., Brookline, Mass. Knit article and making same. No. 1,358,799; Nov. 16; v. 280; p. 418.
Tully, George L., assignor to American Optical Company, Southbridge, Mass. Goggles. No. 1,335,140; Mar. 30; v. 272; p. 779.
Tuma, Martin. (See Tuma, Wensel, and M.)
Tuma, Wensel and M., New Prague, Minn. Tractor-governor. No. 1,340,993; May 25; v. 274; p. 645.
Tunison, Murray C., assignor to Tunison & Nunn, Chico, Calif. Tractor attachment for automobiles. No. 1,356,945; Oct. 26; v. 279; p. 630.
Tunison & Nunn. (See Tunison, Murray C., assignor.)
Tunks, Charles A. (See Eickhoff and Tunks.)
Tunks, Charles A., Cleveland, Ohio, assignor to Auto Ordnance Corporation, New York, N. Y. Magazine. No. 1,349,350; Aug. 10; v. 277; p. 290.
Tunnel Machine Manufacturing & Engineering Company. (See Sheen, Milton R., assignor.)
Tunnell, Harry E., New York, N. Y. Holder for fire-extinguishers and other articles. No. 1,360,829; Nov. 30; v. 280; p. 929.
Tunstall, Harry, Fairhaven, assignor to Alsatian Machine Company, Boston, Mass. Combing-machine. No. 1,351,076; Aug. 31; v. 277; p. 806.
Tunstall, Harry, Fairhaven, assignor to Alsatian Machine Company, Boston, Mass. Combing-machine. No. 1,351,077; Aug. 31; p. 277; p. 806.
Turbayne, William A., assignor, by mesne assignments, to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Regulator for electric generators. No. 1,331,223; Feb. 17; v. 271; p. 451.
Turbayne, William A., assignor, by mesne assignments, to U. S. Light & Heat Corporation, Niagara Falls, N. Y. System of electrical regulation. No. 1,335,141; Mar. 30; v. 272; p. 779.
Turbayne, William A., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Starting and generating system. No. 1,342,409; June 1; v. 275; p. 155.
Turbayne, William A., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. System of electrical distribution. No. 1,343,597; June 15; v. 275; p. 505.
Turbayne, William A., assignor, by mesne assignments, to U. S. Light & Heat Corporation, Niagara Falls, N. Y. System of electrical regulation. No. 1,355,869; Oct. 19; v. 279; p. 372.
Turbayne, William A., assignor, by mesne assignments, to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Regulator for electric generators. No. 1,356,099; Oct. 19; v. 279; p. 417.
Turbayne, William A., Buffalo, assignor, by mesne assignments, to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Electric regulator. No. 1,357,933; Nov. 2; v. 280; p. 140.
Turbine Air Tool Company, The. (See Kraber, George L., assignor.)
Turbo Rotary Engine Company. (See Carroll, John D., assignor.)
Turcan, John, South Akron, Ohio. Torpedo discharge for submarines. No. 1,336,110; Apr. 6; v. 273; p. 77.
Türck, Eugen, Langerfield, near Barmen, Germany, assignor, by mesne assignments, to the American Fabrics Company, Bridgeport, Conn. Lace with gauze-like ground made on single-thread machines. No. 1,337,294; Apr. 20; v. 273; p. 436.
Turck, Henry J., *et al.*, trustees. (See Bobroff, Bornett L., assignor.)
Turck, Joseph A. V., Wilmette, assignor to Felt & Tarrant M'f'g Co., Chicago, Ill. Calculating-machine. No. 1,357,747; Nov. 2; v. 280; p. 104.
Turck, Joseph A. V., Wilmette, assignor to Felt & Tarrant Manufacturing Company, Chicago, Ill. Calculating-machine. No. 1,357,748; Nov. 2; v. 280; p. 104.
Turcotte, George J., Mount Vernon, Ala. Automobile direction-indicator. No. 1,355,717; Oct. 12; v. 279; p. 302.
Turins, Joseph S., Cleveland, Ohio. Operating mechanism for ice-cutting machines. No. 1,345,290; June 29; v. 275; p. 965.
Turk, Frank, Casselman, assignor of one-fourth to F. Gacnik, Johnstown, and one-fourth to J. Hocevar, Rockwood, Pa. Vegetable-cutter. No. 1,351,357; Aug. 31; v. 277; p. 863.
Turk, James W., Portland, Oreg. Machine for separating gold from sand. No. 1,330,963; Feb. 17; v. 271; p. 404.
Turnbull, Charles W., and J. H. Fox, Albert Lea, Minn. Vapor-oil burner. No. 1,340,038; May 11; v. 274; p. 336.
Turnbull, James R., Scranton, Pa. Steam-trap. No. 1,334,821; Mar. 23; v. 272; p. 658.

Digitized by Google

Alphabetical list of patentees—Continued.

Turnbull, William. (See Norelius, E. F., and Turnbull.)
Turnbull, William, assignor to The Holt Manufacturing Company, Stockton, Calif. Multiple-disk clutch. No. 1,327,576; Jan. 6; v. 270; p. 130.
Turnbull, William, assignor to The Holt Manufacturing Company, Stockton, Calif. Self-propelled vehicle. No. 1,329,314; Jan. 27; v. 270; p. 583.
Turnbull, William, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Tractor-truck mechanism. No. 1,336,387; Apr. 6; v. 273; p. 129.
Turnbull, William, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Track-support for chain-track tractors. No. 1,336,871; Apr. 13; v. 273; p. 281.
Turnbull, William, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Traction-engine. No. 1,344,360; June 22; v. 275; p. 720.
Turnbull, William, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Multiple-disk clutch. No. 1,344,361; June 22; v. 275; p. 720.
Turnbull, William, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Governor-controlled throttle-valve. No. 1,344,362; June 22; v. 275; p. 721.
Turnbull, William. Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Tractor-frame suspension. No. 1,344,363; June 22; v. 275; p. 721.
Turner, Albert. (See Dunbar, H. W., Turner, and Smith.)
Turner, Albert. (See Norton, C. H., Turner, and Wilcox, Jr.)
Turner, Alonzo G., Hanksville, Utah. Non-cloggable self-cleaning screen. No. 1,343,292; June 15; v. 275; p. 445
Turner, Alonzo O. (See Cook, George R., assignor.)
Turner, Ambrose, and H. A. Ripley, assignors of one-third to E. V. Hopkins, Wareham, Mass. Cranberry-picking apparatus. No. 1,360,473; Nov. 30; v. 280; p. 859.
Turner, Charles, Irlam, England. Destructive distillation. No. 1,336,264; Apr. 6; v. 273; p. 106.
Turner, Charles A. (See Edwards H. B., Turner, and Reed.)
Turner, Charles H., Worcester, Mass., assignor to Osgood Bradley Car Company. Cart-seat. No. 1,337,295; Apr. 20; v. 273; p. 486.
Turner, Charles H., assignor to Osgood Bradley Car Company, Worcester, Mass. Car-seat. No. 1,355,192; Oct. 12; v. 279; p. 200.
Turner, Clarence R., *et al.* (See Moody, Thomas J., assignor.)
Turner, Claude A. P., Minneapolis, Minn. Concrete dam. No. 1,351,588; Aug. 31; v. 277; p. 908.
Turner, Douglas, assignor to The Measuregraph Company, St. Louis, Mo. Antispinning device. No. 1,336,265; Apr. 6; v. 273; p. 106.
Turner, Douglas, assignor to The Measuregraph Company, St. Louis, Mo. Hand-operated computing attachment. No. 1,359,549; Nov. 23; v. 280; p. 609.
Turner, Douglas, assignor to The Measuregraph Company, St. Louis, Mo. Lock for cloth measuring and cost computing machines. No. 1,363,292; Dec. 28; v. 281; p. 595.
Turner, Edward A., Casper, Wyo. Transferable cradle. No. 1,344,009; June 22; v. 275; p. 652.
Turner, Ernest J. (See Howard, B. H., and Turner.)
Turner, Frank L., Detroit, Mich. Nut for musical instruments. No. 1,335,142; Mar. 30; v. 272; p. 780.
Turner, Frank M., Omaha, Nebr., assignor of one-half to E. F. Quackenbush, Onawa, Iowa. Excavating-scoop. No. 1,330,826; Feb. 17; v. 271; p. 376.
Turner, Fred W. (See Burn, J. F., and Turner.)
Turner, George W., Argenta, Ark. Spring-motor for fans. No. 1,362,653; Dec. 21; v. 281; p. 430.
Turner, Giles M., Milwaukee, Wis. Article-carrying truck. No. 1,356,672; Oct. 26; v. 279; p. 577.
Turner, Henry M. (See Brant, H. T., and Turner.)
Turner, James M., Florence, Ala. Store construction. No. 1,343,801; June 15; v. 275; p. 546.
Turner, John C., Dayton, Ohio. Toy. No. 136,324; Oct. 19; v. 279; p. 462.
Turner, John S., Dallas, Tex. Automobile-bed. No. 1,363,627; Dec. 28; v. 281; p. 659.
Turner, Johnston, Sheffield, England. Molder's flask, pattern-frame, and odd side. No. 1,354,590; Oct. 5; v. 279; p. 28.
Turner, Joseph S., Los Angeles, Calif. Surgical-needle holder. No. 1,327,577; Jan. 6; v. 270; p. 130.
Turner, Lewis R., Sr., Magnolia, N. J. Plate-lifter. No. 1,357,131; Oct. 26; v. 279; p. 667.
Turner, Louis N., *et al.* (See Procunier, Frank R., assignor.)
Turner, Luther P., and J. R. Burrill, Spokane, Wash Roadway. No. 1,338,801; May 4; v. 274; p. 28.
Turner, Martha K., Chicago, Ill. Sifter powder-box. No 1,341,951; June 1; v. 275; p. 67.
Turner, Richard G., Malden, Mass. Loom. No. 1,336,545; Apr. 13; v. 273; p. 219.
Turner & Seymore Manufacturing Company, The. (See Hills, Sidney C., assignor.)
Turner, Stanley S. (See Clark, Edward W., assignor.)
Turner, Walter E., Piqua, Ohio. Automatic liquid weigher. No. 1,329,151; Jan. 27; v. 270; p. 554.
Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Automatic speed-control equipment. No. 1,339,677; May 11; v. 274; p. 268.
Turner, Walter V., Wilkinsburg, assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Combined vacuum and compressed-air brake. No. 1,339,678; May 11; v. 274; p. 268.
Turner, Walter V., Wilkinsburg, assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure-brake device. No. 1,339,679; May 11; v. 274; p. 268.
Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Remote-control brake equipment. No. 1,339,680; May 11; v. 274; p. 269.
Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Co., Wilmerding, Pa. Electropneumatic brake. No. 1,339,681; May 11; v. 274; p. 269.
Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. No. 1,343,694; June 15; v. 275; p. 525.
Turner, Walter V., Wilkinsburg, assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Reversible brake-valve handle. No. 1,343,695; June 15; v. 275; p. 525.
Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure governor. No. 1,346,861; July 20; v. 276; p. 423.
Turner, William A., Portland, Me., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Shoe-tip gage. No. 1,363,293; Dec. 28; v. 281; p. 595.
Turner, William B., Ottawa, Ontario, Canada. Steering-wheel lock. No. 1,347,564; July 27; v. 276; p. 619.
Turner, William E., Denton, near Manchester, England. Machine for ornamenting and finishing the surfaces of felt hats. No. 1,350,687; Aug. 24; v. 277; p. 669.
Turner, William E., assignor to National Fire Escape Corporation, Rochester, N. Y. Folding-bracket fire-escape. No. 1,360,831; Nov. 30; v. 280; p. 930.
Turner, William G., Memphis, Tenn. Means of applying bale-ties. No. 1,332,644; Mar. 2; v. 272; p. 90.
Turner, William G., Memphis, Tenn. Means and method of coupling cotton-ties. No. 1,332,645; Mar. 2; v. 272; p. 90.
Turner, William G., Memphis, Tenn. Device for holding bale-ties while being coupled. No. 1,332,646; Mar. 2; v. 272; p. 90.
Turner, William G., Memphis, Tenn. Device for coupling metal ties. No. 1,332,647; Mar. 2; v. 272; p. 90.
Turner, William G., Memphis, Tenn. Device for holding bale-ties while being coupled. No. 1,332,648; Mar. 2; v. 272; p. 91.
Turner, William G., Memphis, Tenn. Means for securing bale-ties. No. 1,332,649; Mar. 2; v. 272; p. 91.
Turner, William G., Memphis, Tenn. Device for coupling metal ties. No. 1,332,650; Mar. 2; v. 272; p. 91.
Turner, William G., Brooklyn, N. Y. Tooth-filling. No. 1,349,592; Aug. 17; v. 277; p. 410.
Turner, William L., Atherstone, England. Manufacture of steel. No. 1,360,830; Nov. 30; v. 280; p. 930.
Turner, William L., Atherstone, England. Manufacture of ferrochromium. No. 1,346,728; July 13; v. 276; p. 338.
Turney, Eugene T., New York, N. Y., assignor of one-half to E. C. Wilcox, Meriden, Conn. Sound-box. No. 1,340,854; May 18; v. 274; p. 547.
Turney, Eugene T., New York, assignor to National Indicator Company, Long Island City, N. Y. Braiding-machine. No. 1,356,570; Oct. 26; v. 279; p. 556.
Turney, Harry L., Portland, Oreg. Logging-engine. No. 1,331,295; Feb. 17; v. 271; p. 464.
Turney, Harry L., Portland, Oreg. Two-speed logging-engine. No. 1,349,742; Aug. 17; v. 277; p. 440.
Turney, Harry L., Portland, Oreg. Logging-engine. No. 1,362,373; Dec. 14; v. 281; p. 324.
Turney, Lee L., Evansville, Ind. Internal-combustion engine. No. 1,337,417; Apr. 20; v. 273; p. 459.
Turney, William E. (See Miller, R., and Turney.)
Turnill, Thomas W. (See Downs, C., Bellwood, and Turnill.)
Turnwald, Wolfgang, assignor to Stumpf Una-Flow Engine Company, Syracuse, N. Y. Valve. No. 1,332,582; Mar. 2; v. 272; p. 78.
Turtle, Morton A., East Orange, N. J. Means for returning surplus balls in metal-heating furnaces. No. 1,330,223; Feb. 10; v. 271; p. 196.
Turtle, Morton A., East Orange, N. J. Toy pistol. No. 1,340,190; May 18; v. 274; p. 422.
Turtle, Morton A., East Orange, N. J., assignor to W. S. Rockwell Company, New York, N. Y. Continuous annealing-furnace. No. 1,360,334; Nov. 30; v. 280; p. 832.
Turvene, John C., Dayton, Ohio. Ventilator. No. 1,337,296; Apr. 20; v. 273; p. 436.
Tüscher, Adolf, Jr., Zurich, Switzerland. Pipe-wrench. No. 1,340,092; May 11; v. 274; p. 345.
Tuscher, Jean E., Neuchâtel, Switzerland. Circuit-breaking mechanism for internal-combustion engines. No. 1,350,898; Aug. 24; v. 277; p. 709.
Tussing, Benjamin F., Fruitland, Idaho. Mechanism for assorting fruit by weight. No. 1,349,304; Aug. 10; v. 277; p. 281.
Tutein, Joseph F., Crafton, Pa. Furnace construction. No. 1,345,652; July 6; v. 276; p. 63.
Tütsch, Conrad. Winterthur, Switzerland. Bleaching-boiler plant. No. 1,335,925; Apr. 6; v. 273; p. 42.

Digitized by Google

Tutt, R. N. (See Barnett, John B., assignor.)
Tuttle, Alpheus A., New Britain, Conn. Shop-box. No. 1,338,051; Apr. 27; v. 273; p. 649.
Tuttle & Bailey Mfg. Co. (See Howell, Edward D., assignor.)
Tuttle, George A., Anatone, Wash. Spring-oiler. No. 1,329,864; Feb. 3; v. 271; p. 98.
Tuttle, Henry W., Des Plaines, Ill. Filtering-machine. No. 1,336,600; Apr. 13; v. 273; p. 229.
Tuttle, Lauren T., San Francisco, Calif. Commutator. No. 1,347,065; July 20; v. 276; p. 464.
Tuttle, Walter I., Providence, R. I., assignor to Frank Mossberg Company, Attleboro, Mass. Construction for beams. No. 1,335,407; Mar. 30; v. 272; p. 828.
Tuttle, Walter I., Providence, R. I., assignor to Frank Mossberg Company, Attleboro, Mass. Brace construction. No. 1,335,408; Mar. 30; v. 272; p. 829.
Tuttle, Walter I., Providence, R. I., assignor to Frank Mossberg Company, Attleboro, Mass. Construction for braces. No. 1,335,409; Mar. 30; v. 272; p. 829.
Tuttle, Walter I., Providence, R. I., assignor to Frank Mossberg Company, Attleboro, Mass. Reel construction and handling webs. No. 1,337,418; Apr. 20; v. 273; p. 459.
Tverdahl, Edward A., Evanston, Ill. Windshield-cleaning device. No. 1,350,751; Aug. 24; v. 277; p. 682.
Twa, Trueman H., Coombs, British Columbia, Canada. Automatic stop for engines. No. 1,363,067; Dec. 21; v. 281; p. 511.
Twarogowski, Alexander, Detroit, Mich. Heel. No. 1,341,088; May 25; v. 274; p. 663.
Tvedt, Thomas T., Brooklyn, N. Y. Muffler. No. 1,345,418; July 6; v. 276; p. 18.
Tweeddale, Daniel E., assignor of one-half to J. Chiodo, San Francisco, Calif. Button-fastener. No. 1,346,352; July 13; v. 276; p. 264.
Twentieth Century Brass Works. (See Wangelin, Ernest E., assignor.)
Tweto, Benjamin, Missoula, Mont. Cotter-pin remover. No. 1,357,012; Oct. 26; v. 279; p. 643.
Twiford, William R., Manville, Wyo. Pump. No. 1,351,813; Sept. 7; v. 278; p. 19.
Twigg, Arthur C., Birmingham, England. Holder for shaping and similar tools. No. 1,355,929; Oct. 19; v. 279; p. 383.
Twigg, Arthur C., Birmingham, England. Holder for shaping, slotting, and similar tools. No. 1,355,930; Oct. 19; v. 279; p. 383.
Twigg, John F., San Francisco, Calif. Life-raft. No. 1,336,872; Apr. 13; v. 273; p. 281.
Twilley, Frederick J. (See Cuke, D. A., and Twilley.)
Twin City Forge & Foundry Company. (See Ovestrud, Melvin, assignor.)
Twiss, Douglas F., assignor to The Dunlop Rubber Company, Limited, Birmingham, England. Reclaiming rubber. No. 1,335,920; Apr. 6; v. 273; p. 42.
Twistern, Hans P., Woodstock, Ill. Weed-cutting attachment for cultivators. No. 1,335,410; Mar. 30; v. 272; p. 829.
Twitchell, Myron A., Elk Point, S. D. Animal-trap. No. 1,327,890; Jan. 13; v. 270; p. 250.
Twitchell Process Company, The. (See Divine, Robert E., assignor.)
Twombly, Harry D., Norfolk, Nebr., assignor to Crane Puller Company, Arlington, Mass. Arbor-press. No. 1,343,015; June 8; v. 275; p. 328.
Twombly, Moses W. (See Hathaway, L. N., Twombly, and Hammond.)
Twombly, Willard I., New York, N. Y., assignor, by mesne assignments, to J. Sofge, Cincinnati, Ohio. Pump. No. 1,362,374; Dec. 14; v. 281; p. 324.
Twyman, Frank, assignor to Adam Hilger, Limited, London, England. Apparatus for testing lenses. No. 1,347,133; July 20; v. 276; p. 477.
Twyman, Thomas W., Avella, Pa. Combined trolley-wire and guard hanger. No. 1,352,105; Sept. 7; v. 278; p. 76.
Tybout, Richard R., assignor to Guano & Raggio, Inc., Philadelphia, Pa. Dough-compressor. No. 1,339,637; May 11; v. 274; p. 260.
Tyerman, William H., Paris Island, S. C. Target. No. 1,364,010; Dec. 28; v. 281; p. 733.
Tygard, Harry L., Pittsburgh, and G. M. Hamilton, Oakmont, Pa. Fuel-control mechanism for internal-combustion engines. No. 1,347,192; July 20; v. 276; p. 488.
Tylee, Arthur K. (See McLauthlin, M. B., and Tylee.)
Tyler, John G., St. Louis, Mo. Safety chalk-holder. No. 1,334,723; Mar. 23; v. 272; p. 639.
Tyler, John G., St. Louis, Mo. Combined magazine chalk-holder and powder-container. No. 1,334,724; Mar. 23; v. 272; p. 639.
Tyler, John O., Winchester, Ky. Gear-lock. No. 1,358,899; Nov. 16; v. 280; p. 439.
Tyler, Lucius S., Boston, Mass. Picture-hook. No. 1,343,855; June 15; v. 275; p. 557.
Tyler, Ralph S., Cleveland Heights village, assignor to The Chandler and Price Company, Cleveland, Ohio. Inking mechanism for printing-presses. No. 1,352,150; Sept. 7; v. 278; p. 86.
Tyler, Sidney J., Afton, Okla. Fixing-bath and developing-tray support and rocker. No. 1,352,330; Sept. 7; v. 278; p. 118.
Tyler, W. S., Company, The. (See Reynolds, Morley P., assignor.)
Tyler, William C., Racine, Wis., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Apparatus and method for forming inner tubes for pneumatic tires. No. 1,332,779; Mar. 2; v. 272; p. 115.
Tymeson, Eugene, assignor to Alexander Smith & Sons Carpet Company, Yonkers, N. Y. Tube-threading machine. No. 1,363,377; Dec. 28; v. 281; p. 611.
Tymus, Steve O., Winnipeg, Manitoba, Canada. Shoe-closing device. No. 1,338,841; Apr. 27; v. 273; p. 704.
Tyner, Richard H., Cincinnati, Ohio. Marking, listing, and assorting booth. No. 1,349,699; Aug. 17; v. 277; p. 481.
Type-Release Co., The. (See Dibovsky, Victor V., assignor.)
Typewriter Accessories Co. (See Simpson, James E., assignor.)
Typewriter Calculating Attachment Company. (See Schinke, E. C., and Sutherland, assignors.)
Typewriter Calculating Attachment Company. (See Tillman, Ferdinand J., assignor.)
Tyrer, Thomas, deceased; P. H. Chambers and G. T.
Typewriting Calculating Attachment Company. (See Tillman, Ferdinand J., assignor.)
Typograph G. M. B. H. (See Dormeth, Julius, assignor.) 1,344,104; June 22; v. 275; p. 670.
Tyrrell, Claude W., Chicago, Ill. Foldable parachute toy. No. 1,359,207; Nov. 16; v. 280; p. 496.
Tyrrell, Franklin E. (See Ranney, L., Dissette, and Tyrrell.)
Tyrrell, William, assignor to New Era Iron and Steel Feasey, executors, London, England. Production of cellulose acetate solutions. No. 1,339,728; May 11; v. 274; p. 277.
Tyrrell, Claude U., Chicago, Ill. Bubble-blower. No. Corporation, Seattle, Wash. Briqueting ores. No. 1,356,100; Oct. 19; v. 279; p. 418.
Tyson, Andrew C., Kissimmee, Fla. Billiard-cue lock. No. 1,342,517; June 2; v. 275; p. 229.
Tyson, Thomas C., West Medford, Mass. System of composition unit construction. No. 1,355,580; Oct. 12; v. 279; p. 276.
Tyzack, Walter, A. Wright, and H. Senior, Sheffield, England. Cutlery-grinding machine. No. 1,355,870; Oct. 19; v. 279; p. 372.
Tzibides, James N., New York, N. Y., and R. H. Parker, Winthrop, Mass.; said Parker assignor to said Tzibides. Sheet feeding and cutting mechanism. No. 1,347,134; July 20; v. 276; p. 477.
Tzibides, James N., New York, N. Y., and R. H. Parker, Winthrop, Mass.; said Parker assignor to said Tzibides. Conveying and stacking mechanism. No. 1,350,393; Aug. 24; v. 277; p. 612.
U. S. Bottlers Machinery Company. (See Risser, Arthur I., assignor.)
U. S. Compression Inner Tube Company. (See Voorhees, John J., Jr., assignor.)
U. S. Electrical Manufacturing Company. (See Brown, Nicholas S., assignor.)
U. S. Industrial Alcohol Company. (See Backhaus, Arthur A., assignor.)
U. S. Industrial Alcohol Co. (See Carter, Ray M., assignor.)
U. S. Industrial Alcohol Co. (See Haner, Carl, Jr., assignor.)
U. S. Industrial Alcohol Co. (See Hayes, Albert, assignor.)
U. S. Industrial Alcohol Co. (See Hayes, Hebert, assignor.)
U. S. Light & Heat Corporation. (See Bliss, William L., assignor.)
U. S. Light & Heat Corporation. (See Carpenter, Campbell C., assignor.)
U. S. Light & Heat Corporation. (See Du Bois, Thomas R., assignor.)
U. S. Light & Heat Corporation. (See Frey, Peter F., assignor.)
U. S. Light & Heat Corporation. (See Loudon, Warren P., assignor.)
U. S. Light & Heat Corporation. (See Norris, Paul E., assignor.)
U. S. Light & Heat Corporation. (See Ohliger, L. P., Willson, White, and Reid, assignors.)
U. S. Light & Heat Corporation. (See Pennington, Harry R., assignor.)
U. S. Light & Heat Corporation. (See Turbayne, William A., assignor.)
U. S. Light & Heat Corporation. (See Zimmerman, T., and Du Bois, assignor.)
U. S. Light & Heat Corporation. (See Zimmerman, Thomas, assignor.)
U. S. Sanitary Products Corporation. (See Roark, Ruric C., assignor.)
U. S. Sanitary Specialties Corporation. (See Little, Robert H., assignor.)
U. S. Sanitary Specialties Corporation. (See Morris, Edgar L., assignor.)
U. S. Slicing Machine Company. (See Folk, Joseph, assignor.)
U. S. Slicing Machine Company. (See Luschka, A. R., and Folk, assignor.)
U. S. Slicing Machine Company. (See Stukart, Hendrik, assignor.)
U. S. Slicing Machine Company. (See Van Berkel, Cornelis, F. M., assignor.)

Digitized by Google

Alphabetical list of patentees—Continued.

U. S. Slicing Machine Company. (See Woodington, John C., assignor.)
U. S. Smelting Furnace Company. (See Jones, Arthur, assignor.)
U. S. Toy & Novelties Manufacturing Co., The. (See Fairbanks, James J., assignor.)
U. S. Tractor & Machinery Company. (See Harris, Grover D., assignor.) (Reissue.)
Ucan Specialties Corporation. (See Yeomans, Thomas, assignor.)
Udale, Stanley M., Buffalo, N. Y. Aero-engine control. No. 1,345,037; June 29; v. 275; p. 916.
Udall, Phillip A. (See Thompson, G. E., and Udall.
Ude, William C., West Haven, Conn. Telephone. No. 1,327,412; Jan. 6; v. 270; p. 98.
Udell, Henry A., Racine, Wis. Stepladder. No. 1,342,881; June 8; v. 275; p. 302.
Udesen, Walter, Port Arthur, Ontario, Canada. Hat-fastener. No. 1,361,204; Dec. 7; v. 281; p. 44.
Udovich, Joseph, Duluth, Minn. Safety scaffolding-hanging apparatus. No. 1,340,191; May 18; v. 274; p. 422.
Udy, Marvin J. (See Cullen, J. F., and Udy.)
Udy, Marvin J., assignor to Haynes Stellite Company, Kokomo, Ind. Recovering cobalt. No. 1,336,765; Apr. 13; v. 273; p. 261.
Uebele, Joseph E. (See McKnight, Boyd L., assignor.)
Uebelmesser, Charles, New York, N. Y., assignor to Cru Patents Corporation. Automatic winding and reversing machine. No. 1,320,997; Jan. 6; v. 270; p. 22.
Uffert, Walter B., Rochester, N. Y. Motor attachment. No. 1,362,452; Dec. 14; v. 281; p. 339.
Uffner, Hyman, Brooklyn, N. Y., assignor to Peerless Album Company. Phonographic-record container. No. 1,329,030; Jan. 27; v. 270; p. 531.
Ufford, Morrell J., Kansas, Ill. Firecracker-gun. No. 1,327,747; Jan. 13; v. 270; p. 224.
Uglow, Lenoard V., Benton, Iowa. Chain-tightener device. No. 1,337,534; Apr. 20; v. 273; p. 482.
Uhl, Henry W., Freeport, assignor, by mesne assignments, to Eisemann Magneto Corporation, Brooklyn, N. Y. Magneto-electric machine. No. 1,345,331; June 29; v. 275; p. 973.
Uhl, Robert E., Greenfield, Ohio. Supporter. No. 1,344,068; June 22; v. 275; p. 664.
Uhlemann, Theodore F., assignor to Nicholas Power Company, New York, N. Y. Framing mechanism for moving-picture machines. No. 1,351,814; Sept. 7; v. 278; p. 20.
Uhlig, Robert W., St. Louis, Mo. Diamond-holder. No. 1,329,865; Feb. 3; v. 271; p. 98.
Uhlinger, Roy H., Pittsburgh, Pa. Producing hydrogen. No. 1,363,488; Dec. 28; v. 281; p. 632.
Uhr, Nils W. (See Wigelius, S. G., and Uhr.)
Uhr, Nils W., Gottenborg, and J. H. Sandberg, Stockholm, Sweden. Firing device for submarine mines, torpedoes, or the like. No. 1,336,873; Apr. 13; v. 273; p. 282.
Ulfeldt, Johan, Stavanger, Norway. Releasing and clutching mechanism for presses and the like. No. 1,333,689; Mar. 16; v. 272; p. 399.
Ulman, Edgar B., E. B. Simmonds, and A. F. Atkinson, Muncie, Ind.; said Simmonds assignor to said Atkinson. Heat and vapor bath cabinet. No. 1,346,353; July 13; v. 276; p. 264.
Ulmann, Emanuel S., New York, N. Y. Apparatus for mooring dirigibles and the like. No. 1,349,593; Aug. 17; v. 277; p. 410.
Ulmann, Emanuel S., New York, N. Y. Apparatus for mooring airships. No. 1,351,931; Sept. 7; v. 278; p. 44.
Ulman, Louis, New York, N. Y. Egg-beater. No. 1,337,860; Apr. 20; v. 273; p. 543.
Ulrich, Alexander L., Chicago, Ill. Antislipping attachment for shoes. No. 1,329,064; Jan. 27; v. 270; p. 537.
Ulrich, Alexander L., Chicago, Ill. Leather-waterproofing composition. No. 1,334,573; Mar. 23; v. 272; p. 611.
Ulrich, Georg, Magdeburg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Method of and apparatus for separating magnetic material. No. 1,360,601; Nov. 30; v. 280; p. 885.
Ulrich, Rudolf, Newburgh, N. Y. Expansion-joint. No. 1,336,111; Apr. 6; v. 273; p. 77.
Ulm, John E., Barberton, Ohio. Sewer-block. No. 1,338,885; May 4; v. 274; p. 43.
Ulmer, Theodore, Scotland, S. D. Intake-manifold. No. 1,333,142; Mar. 9; v. 272; p. 235.
Ulrich, Charles B., Jamestown, N. Y. Filing device. No. 1,333,231; Mar. 9; v. 272; p. 252.
Ulrich, Frank, Huntington Beach, Calif. Tubing-drainer. No. 1,354,862; Oct. 5; v. 279; p. 83.
Ulrich, Frank, assignor of one-half to E. R. Bradbury, Huntington Beach, Calif. Tubing-drainer. No. 1,335,540; Mar. 30; v. 272; p. 853.
Ulrich, Horace W., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,337,297; Apr. 20; v. 273; p. 437.
Ulrich, John E. (See Zoeller, W. E., and Ulrich.)
Ulrich, Wilhelm, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Projectile. No. 1,356,840; Oct. 26; v. 279; p. 610.
Ulrich, William P., Oslo, Minn. Mechanical movement. No. 1,351,978; Sept. 7; v. 278; p. 53.
Ultro Chemical Corporation. (See Linz, Arthur, assignor.)
Umanoff, David, New York, N. Y. Loose-leaf binder. No. 1,358,265; Nov. 9; v. 280; p. 266.
Umbenhower, Cornelius R., Anderson, Ind. Vapor oil-burner. No. 1,329,445; Feb. 3; v. 271; p. 19.
Umbenhower, Cornelius R., Anderson, Ind. Vapor oil-burner. No. 1,329,446; Feb. 3; v. 271; p. 19.
Umholtz, Augustus, Port Carbon, Pa. Telephone-receiver. No. 1,340,807; May 18; v. 274; p. 538.
Umphrey, Henry, Carleton Place, Ontario, Canada, assignor of one-third to E. D. B. Robertson and one-third to H. D. Humphrey, Ontario, Canada. Support for window-blind roller, curtain, valance, and the like. No. 1,346,354; July 13; v. 276; p. 264.
Umsted, Franklin A., Chicago, Ill. Purifying method and apparatus for gas-manufacturing. No. 1,332,529; Mar. 2; v. 272; p. 68.
Umsted, Judd I., Dayton, Iowa. Operating device for gear-shifting mechanism. No. 1,331,685; Feb. 24; v. 271; p. 558.
Underdahl, Albert, Cannon Falls, Minn. Gas-turbine. No. 1,342,314; June 1; v. 275; p. 137.
Under-Feed Stoker Company of America. (See Armstrong, S. A., and Blackburn, assignors.)
Underfeed Stoker Company of America, The. (See Blackburn and Fleming, assignors.)
Underhill, Benjamin D., New Canaan, Conn., assignor to D. S. Plumb, Newark, N. J. Method or apparatus for producing pictures in colors. No. 1,340,923; May 25; v. 274; p. 631.
Underhill, Charles R., New Haven, Conn. Gear-shifting mechanism. No. 1,353,438; Sept. 21; v. 278; p. 431.
Underhill, Walter A., and C. C. Avery, assignors to The Eagle Wagon Works, Auburn, N. Y. Wagon-train. No. 1,336,665; Apr. 23; v. 273; p. 241.
Underwood, Alfred T., High Point, N. C. Spinning-brake. No. 1,338,600; Apr. 27; v. 273; p. 751.
Underwood, Chester J., Elgin, Ill. Dental mirror. No. 1,345,718; July 6 v. 276; p. 77.
Underwood Computing Machine Company. (See Corell, Clifton B., assignor.)
Underwood Computing Machine Company. (See Degener, Gustave O., assignor.)
Underwood Computing Machine Company. (See Gumprecht, William L., assignor.)
Underwood Computing Machine Company. (See Hart, Frederick A., assignor.)
Underwood Computing Machine Company. (See Johnson, Arthur A., assignor.)
Underwood Computing Machine Company. (See Kupetz, Adolph G., assignor.)
Underwood Computing Machine Company. (See Norin, Carl E., assignor.)
Underwood Computing Machine Company. (See Pitman, Henry L., assignor.)
Underwood Computing Machine Company. (See Steiger, Andrew W., assignor.)
Underwood Computing Machine Company. (See Stickney, Burnham C., assignor.)
Underwood Computing Machine Company. (See Thomas, E., and Stickney.)
Underwood Computing Machine Company. (See Waldheim, John, assignor.)
Underwood Computing Machine Company. (See Whiting, Horatio, assignor.)
Underwood Computing Machine Company. (See Wright, Walter, assignor.)
Underwood, Edgar, Gary, Ind. Water-hammock. No. 1,329,687; Feb. 3; v. 271; p. 64.
Underwood, Edward L. (See Martin, L., and Underwood.)
Underwood, Ernest E., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic shutter. No. 1,354,526; Oct. 5; v. 279; p. 16.
Underwood, Herman M., New York, N. Y. Wall service-bushing for vacuum cleaning and other systems. No. 1,347,236; July 20; v. 276; p. 497.
Underwood, Lois M., Dayton, Ohio. Furnace gas-producer. No. 1,337,298; Apr. 20; v. 273; p. 437.
Underwood, Oliver E. (See Barker, G. P., and Underwood.)
Underwood Typewriter Company. (Reissue.) (See Anderson, Nils H., assignor.)
Underwood Typewriter Company. (See Bates, Harry, assignor.)
Underwood Typewriter Company. (See Burridge, Lee S., assignor.)
Underwood Typewriter Company. (See Campbell, George W., assignor.)
Underwood Typewriter Company. (See Cooper, Ellis W., assignor.)
Underwood Typewriter Company. (See Corcoran, Cornelius B., assignor.)
Underwood Typewriter Company. (See Dobson, William A., assignor.)
Underwood Typewriter Company. (See Duckstine, Julius, assignor.)
Underwood Typewriter Company. (See Fenton, Walter, assignor.)

Digitized by Google

Alphabetical list of patentees—Continued.

Underwood Typewriter Company. (See Funk, Rufus B., assignor.)
Underwood Typewriter Company. (See Helmond, William F., assignor.)
Underwood Typewriter Company. (See Hexter, Julian S., assignor.)
Underwood Typewriter Company. (See Hilsee, Charles M., assignor.)
Underwood Typewriter Company. (See Horn, Nicholas.)
Underwood Typewriter Company. (See Keene, Wendell P., assignor.)
Underwood Typewriter Company. (See Kurowski, Alfred G. F., assignor.)
Underwood Typewriter Company. (See Lee, George S., assignor.)
Underwood Typewriter Company. (See Lorenz, William A., assignor.)
Underwood Typewriter Company. (See Melton, Max E., assignor.)
Underwood Typewriter Company. (See Messenger, Lee F., assignor.)
Underwood Typewriter Company. (See Smith, Jesse A. B., assignor.)
Underwood Typewriter Company. (See Sokolov, Jacob, assignor.)
Underwood Typewriter Company. (See Stickney, B. C., and Johnson, assignors.)
Underwood Typewriter Company. (See Stickney, Burnham C., assignor.)
Underwood Typewriter Company. (See Waldheim, John, assignor.)
Underwood Typewriter Company. (See Wernery, Lester A., assignor.)
Underwood Typewriter Company. (See Wherry, John A., assignor.)
Underwood Typewriter Company. (See White, William L., assignor.)
Underwood Typewriter Company. (See Worden, Linas F., assignor.)
Underwood, Walter H., New York, N. Y. Metal hair. No. 1,355,368; Oct. 12; v. 279: p. 235.
Underwood, William, Company. (See Cleveland, Francis D., assignor.)
Unger, John W. (See Stafford, A. E., and Unger.)
Unger, John W., and H. Lahann, Correctionville, Iowa, assignors to Farm Specialty Manufacturing Company, St. James, Minn. Hog-feeder. No. 1,355,435; Oct. 12; v. 279; p. 247.
Unger, Magnus, Pittsfield, Mass., assignor to General Electric Company. Electrical system of power transmission. No. 1,350,899; Aug. 24; v. 277; p. 709.
Unger, Magnus, assignor to General Electric Company, Pittsfield, Mass. Winding for electrical apparatus. No. 1,362,375; Dec. 14; v. 281; p. 324.
Unger, Warren, Kentland, Ind. Loading apparatus. No. 1,351,932; Sept. 7; v. 278; p. 44.
Ungerman, Carl, assignor to American Metal Products Corp., Detroit, Mich. Floating chuck. No. 1,356,571; Oct. 26; v. 279; p. 556.
Uni-Form Company, The. (See Ambursen, Nils F., assignor.)
Union Bag & Paper Corporation. (See Avery, True M., assignor.)
Union Carbide Company. (See Curme, Henry R., assignor.)
Union Draft Gear Co. (See Barnard, Harry, assignor.)
Union Electric Mfg. Co. (See Campbell, Harry E., assignor.)
Union Gas Engine Company. (See Corson, William L., assignor.)
Union Industrial Company. (See Forbes, Charles S., assignor.)
Union Iron and Foundry. (See Bates, Frederick, assignor.)
Union Land & Power Company. (See Foster, George D., assignor.)
Union Metal Manufacturing Company, The. (See Bardon, Claud J., assignor.)
Union Metal Manufacturing Company, The. (See Drumm, Herbert C., assignor.)
Union Railway Equipment Company. (See Hall, William B., assignor.)
Union Railway Equipment Co., The. (See O'Connor, Arthur F., assignor.)
Union Special Machine Company. (See Berger, Joseph, assignor.)
Union Special Machine Company. (See Hawley, De Forest, assignor.)
Union Special Machine Company. (See Heap, Jesse J., assignor.)
Union Special Machine Company. (See Hughes, Robert R., Jr., assignor.)
Union Special Machine Company. (See Loggie, William J., assignor.)
Union Special Machine Company. (See Moffatt, J. R., and Kelso, assignors.)
Union Special Machine Company. (See Moffatt, James R., assignor.)
Union Special Machine Company. (See Onderdonk, Lansing, assignor.)
Union Special Machine Company. (See Scott, W. W., and Wohlpart, assignors.)
Union Special Machine Company. (See Seymour, Dudley S., assignor.)
Union Special Machine Company. (See Stengel, Joseph L., assignor.)
Union Special Machine Company. (See Tate, Samuel G., assignor.)
Union Steam Pump Company. (See Smith, Karl D., assignor.)
Union Steam Pump Company. (See Smith and Samelson, assignors.)
Union Steel Products Company Ltd. (See Dean, George E., assignor.)
Union Switch & Signal Company, The. (See Coleman, John P., assignor.)
Union Switch & Signal Company, The. (See Dunham, Charles W., assignor.)
Union Switch & Signal Company, The. (See Fereday, Frederick T., assignor.)
Union Switch & Signal Company, The. (See Fisher, A. W., and Snavely, assignors.)
Union Switch & Signal Company, The. (See Harrington, Clinton O., assignor.)
Union Switch & Signal Company, The. (See Holliday, John S., assignor.)
Union Switch & Signal Company, The. (See Howard, Lemuel F., assignor.)
Union Switch & Signal Company. (See Lay, Charles H., assignor.)
Union Switch & Signal Company, The. (See Lewis, Lloyd V., assignor.)
Union Switch & Signal Company, The. (See Loomis, Harold S., assignor.)
Union Switch & Signal Company, The. (See McCann, Ronald A., assignor.)
Union Switch & Signal Company, The. (See Nicholson, Frank H., assignor.)
Union Switch & Signal Company, The. (See Peter, Bernard H., assignor.)
Union Switch & Signal Company, The. (See Snavely, Clarence S., assignor.)
Union Switch & Signal Company, The. (See Waldron, J. M., and Coleman, assignors.)
Union Switch & Signal Company, The. (See Wallace, Herbert A., assignor.)
Union Switch & Signal Company, The. (See Wells, Wesley B., assignor.)
Union Switch & Signal Company, The. (See Young, John V., assignor.)
Union Tank Line Company. (See Hutchison, William M., assignor.)
Union Tractor Company. (See Arndt, Richard L., assignor.)
Union Tractor Company. (See Porter, J. W., and Arndt, assignors.)
Union Wrapping Machine Company, The. (See Streich, Paul B., assignor.)
Unit Railway Car Company. (See Stanley, Freelan O., assignor.)
United Beverage Machine Company. (See Johnston, W. H., and Williams, assignors.)
United Bottle Machinery Co. (See Sears, Sydney L., assignor.)
United Chemical & Organic Products Co. (See Howell, Sylvester S., assignor.)
United Concrete Pipe Co. (See Bartram, George C., assignor.)
United Concrete Pipe Company. (See Peterson, Earl L., assignor.)
United Concrete Pipe Company. (See Scofield, Glenn M., assignor.)
United Drug Company. (See Purple, Harry J., assignor.)
United Electric Company, The. (See Beardsley, Charles S., assignor.)
United Electric Company, The. (See Goughnour, Charles L., assignor.)
United Engineering & Foundry Company. (See Bark, Arnold P., assignor.)
United Engineering & Foundry Company. (See Biggert, Florence C., Jr., assignor.)
United Engineering & Foundry Company. (See Jones, Lloyd, assignor.)
United Filters Corporation. (See Becraft, F. W., and Genter, assignors.)
United Filters Corporation. (See Clifford, W. E., and Green, assignors.)
United Filters Corporation. (See Salisbury, Orange J.)
United Filters Corporation. (See Sweetland, E. J., and Stanley, assignors.)
United Filters Corporation. (See Sweetland, Ernest J., assignor.)
United Fruit Company. (See Beakes, William E., assignor.)
United Iron Works Company. (See Bodine and Solomon, assignors.)
United Lead Company. (See Cowan, William A., assignor.)
United Lead Company. (See De Campi, Eliodoro, assignor.)
United Lead Company. (See Wettstein, Thomas F., assignor.)
United Lead Company. (See Worrall, George H., assignor.)
United Mattress Machinery Company. (See Porter, Edwin F., assignor.)

Digitized by Google

Alphabetical list of patentees—Continued.

United Mines and Manufacturing Company, The. (See Kohler, Ernest, assignor.)
United Printing Machinery Company. (See Upham, Burt F., assignor.)
United Shoe Machinery Corporation. (See Akerley, Fred R., assignor.)
United Shoe Machinery Corporation. (See Ashton, Orvell, assignor.)
United Shoe Machinery Corporation. (See Ashworth, Fred, assignor.)
United Shoe Machinery Corporation. (See Aston, Albert A., assignor.)
United Shoe Machinery Corporation. (See Bassett, R. W. C., and Jerram, assignors.)
United Shoe Machinery Corporation. (See Bastable, Edward H., assignor.)
United Shoe Machinery Corporation. (See Bates, Arthur, assignor.)
United Shoe Machinery Corporation. (See Baxter, William C., assignor.)
United Shoe Machinery Corporation. (See Benjamin, John M., assignor.)
United Shoe Machinery Corporation. (See Bertrand, F. E., and Wentworth, assignors.)
United Shoe Machinery Corporation. (See Bertrand, Frederic E., assignor.)
United Shoe Machinery Corporation (See Bilello, Thomas W., assignor.)
United Shoe Machinery Corporation. (See Black, George H., assignor.)
United Shoe Machinery Corporation. (See Bliss, Charles A., assignor.)
United Shoe Machinery Corporation. (See Bohanon, Budd D., assignor.)
United Shoe Machinery Corporation. (See Boulton, G., and Gorsuch, assignors.)
United Shoe Machinery Corporation. (See Bourgeois, Adelord, assignor.)
United Shoe Machinery Corporation. (See Bradbury, Walter W., assignor.)
United Shoe Machinery Corporation. (See Braden, Albert R., assignor.)
United Shoe Machinery Corporation. (See Bradford, C. M., and Simmons, assignors.)
United Shoe Machinery Corporation. (Reissue.) (See Brice, A. W., and Booth, assignors.)
United Shoe Machinery Corporation. (See Briggs, Thomas, assignor.)
United Shoe Machinery Corporation. (See Brock, M., and Seely, assignors.)
United Shoe Machinery Corporation. (See Brock, Matthias, assignor.)
United Shoe Machinery Corporation. (See Brogan, James A., assignor.)
United Shoe Machinery Corporation. (See Brogan, Michael F., assignor.)
United Shoe Machinery Corporation. (See Brothers, E., and Lancaster, assignors.)
United Shoe Machinery Corporation. (See Buckminster, Ira C.)
United Shoe Machinery Corporation. (See Carey, Charles H., assignor.)
United Shoe Machinery Corporation. (See Casgrain, Louis A., assignor.)
United Shoe Machinery Corporation. (See Clifford, William P., assignor.)
United Shoe Machinery Corporation. (See Cook, Irving A., assignor.)
United Shoe Machinery Corporation. (See Cosgrove, John W., assignor.)
United Shoe Machinery Corporation. (See Davenport, Eugene F., assignor.)
United Shoe Machinery Corporation. (See Drey, Wilfred J., assignor.)
United Shoe Machinery Corporation. (See Dyer, Newell V., assignor.)
United Shoe Machinery Corporation. (See Eaton, Harrison H., assignor.)
United Shoe Machinery Corporation. (See Engel, Karl, assignor.)
United Shoe Machinery Corporation (See Enslin, Herbert E., assignor.)
United Shoe Machinery Corporation. (See Eppler, Andrew, assignor.)
United Shoe Machinery Corporation. (See Erickson, Edward, assignor.)
United Shoe Machinery Corporation. (See Fausse, Joseph, assignor.)
United Shoe Machinery Corporation. (See Ferguson, George, assignor.)
United Shoe Machinery Corporation. (See Frye, Daniel M., Jr., assignor.)
United Shoe Machinery Corporation. (See Furber, Frederick M., assignor.)
United Shoe Machinery Corporation. (See Glass, Perley R., assignor.)
United Shoe Machinery Corporation. (See Glidden, Walter J., assignor.)
United Shoe Machinery Corporation. (See Goddard, J. W., and Jerram, assignors.)
United Shoe Machinery Corporation. (See Goddu, George, assignor.)
United Shoe Machinery Corporation. (See Gookin, Sylvester L., assignor.)
United Shoe Machinery Corporation. (See Gorsuch, George J., assignor.)
United Shoe Machinery Corporation. (See Graydon, Thomas H., assignor.) (Reissue.)
United Shoe Machinery Corporation. (See Haahr, Anton A., assignor.)
United Shoe Machinery Corporation. (See Hadaway, John B., assignor.)
United Shoe Machinery Corporation. (See Hamann, William, assignor.)
United Shoe Machinery Corporation. (See Hamilton, Harry D., assignor.)
United Shoe Machinery Corporation. (See Hamilton, John H., assignor.)
United Shoe Machinery Corporation. (See Hammond, William P., assignor.)
United Shoe Machinery Corporation. (See Hart, Fred V., assignor.)
United Shoe Machinery Corporation. (See Heys, John J., assignor.)
United Shoe Machinery Corporation. (See Hill, George S., assignor.)
United Shoe Machinery Corporation. (See Horgan, Patrick J., assignor.)
United Shoe Machinery Corporation. (See Howard, Charles B., assignor.)
United Shoe Machinery Corporation. (See Hughes, William, assignor.)
United Shoe Machinery Corporation. (See Jerram, A. E., and Gouldbourn, assignors.)
United Shoe Machinery Corporation. (See Johnson, Albert E., assignor.)
United Shoe Machinery Corporation. (See Jones, Joseph, assignor.)
United Shoe Machinery Corporation. (See Krippendorf, P. F. W. C., assignor.)
United Shoe Machinery Corporation. (See La Chapelle, Fred N., assignor.)
United Shoe Machinery Corporation. (See Lancaster, John T., assignor.)
United Shoe Machinery Corporation. (See Latham, Albert, assignor.)
United Shoe Machinery Corporation. (See Lee, Bernard S., assignor.)
United Shoe Machinery Corporation. (See Levangie, John M., assignor.)
United Shoe Machinery Corporation. (See Levegne, Bernard T., assignor.)
United Shoe Machinery Corporation. (See Littlefield, Augustine F., assignor.)
United Shoe Machinery Corporation. (See Loomer, Henry M., assignor.)
United Shoe Machinery Corporation. (See Lund, Thomas, assignor.)
United Shoe Machinery Corporation. (See McCormack, Andrew J., assignor.)
United Shoe Machinery Corporation. (See McFeely, Ronald F., assignor.)
United Shoe Machinery Corporation. (See MacDonald, Clifford K., assignor.)
United Shoe Machinery Corporation. (See Martin, Harry E., assignor.)
United Shoe Machinery Corporation. (See Meyer, William C., assignor.)
United Shoe Machinery Corporation. (See Morrill, Alfred R., assignor.)
United Shoe Machinery Corporation. (See Perry, Frederick H., assignor.)
United Shoe Machinery Corporation. (See Pope, Joseph H., assignor.)
United Shoe Machinery Corporation. (See Pym, Charles F., assignor.)
United Shoe Machinery Corporation. (See Ray, Eugene J., assignor.)
United Shoe Machinery Corporation. (See Ricks, Fred, assignor.)
United Shoe Machinery Corporation. (See Rigby, John H., assignor.)
United Shoe Machinery Corporation. (See Ritchie, Thomas E., assignor.)
United Shoe Machinery Corporation. (See Roberts, William T. B., assignor.)
United Shoe Machinery Corporation. (See Rumney, Fred A., assignor.)
United Shoe Machinery Corporation. (See Russell, Arthur L., assignor.)
United Shoe Machinery Corporation. (See Scarponi, Nazzareno, assignor.) (Reissue.)
United Shoe Machinery Corporation. (See Searle, Henry C., assignor.)
United Shoe Machinery Corporation. (See Seely, Thomas H., assignor.)
United Shoe Machinery Corporation. (See Simmons, Ralph C., assignor.)
United Shoe Machinery Corporation. (See Smith, Edwin W., assignor.)
United Shoe Machinery Corporation. (See Smith, Louis G., assignor.)
United Shoe Machinery Corporation. (See Smith, Robert B., assignor.)
United Shoe Machinery Corporation. (See Smith, Willard A., assignor.)
United Shoe Machinery Corporation. (See Stacey, Cyril F., assignor.)

Digitized by Google

United Shoe Machinery Corporation. (See Stanbon, Harry R., assignor.)
United Shoe Machinery Corporation. (See Standish, John F., assignor.)
United Shoe Machinery Corporation. (See Starratt, William H., assignor.)
United Shoe Machinery Corporation. (See Stewart, William C., assignor.)
United Shoe Machinery Corporation. (See Thayer, Joseph E., assignor.)
United Shoe Machinery Corporation. (See Toothaker, Fred E., assignor.)
United Shoe Machinery Corporation. (See Trohon, William G., assignor.)
United Shoe Machinery Corporation. (See Turner, William A., assignor.)
United Shoe Machinery Corporation. (See Varney, Everett W., assignor.)
United Shoe Machinery Corporation. (See Warren, George E., assignor.)
United Shoe Machinery Corporation. (See Wentworth, Jesse S., assignor.)
United Shoe Machinery Corporation. (See Wentworth, Samuel J., assignor.)
United Shoe Machinery Corporation. (See Williams, Ernest A., assignor.)
United Shoe Machinery Corporation. (See Winkley, Erastus E., assignor.)
Union Special Mach. Company. (See Onderdonk, L., and Wohlpart, assignors.)
United Specialties Manufacturing Company. (See Morrison, Robert W., assignor.)
United States Asbestos Company. (See Paul, Edward B., assignor.)
United States Automatic Fire Alarm Company, The. (See Johnson, John M., assignor.)
United States Cast Iron Pipe and Foundry Company. (See Ladd, James B., assignor.)
United States Cast Iron Pipe & Foundry Company. (See Lemoine, Louis R., assignor.)
United States Chain and Forging Company. (See Rehfuss, Martin O., assignor.)
United States Chain and Forging Company. (See Senft, John, assignor.)
United States Cloth Cutting Machine Co. (See Komow, N., and Hoskwith, assignors.)
United States Convertible Car Co. (See Wyatt, Everett, assignor.)
United States and Cuban Allied Works Engineering Corporation, The. (See Titus, Frank M., assignor.)
United States Electric Company. (See Jones, George A. E., assignor.)
United States Envelope Company. (Reissue.) (See Furman, Samuel, assignor.)
United States Envelope Company. (See Novick, Abraham, assignor.)
United States Envelope Company. (See Langguth, Wilhelm, assignor.)
United States Envelope Company. (See Swift, Willard E., assignor.)
United States Ferro-Alloys Corporation. (See Petinot, Napoleon, assignor.)
United States Ferro-Alloys Corporation. (See Sicard, Hugh C., assignor.)
United States Gauge Co. (See Place, Josiah W., assignor.)
United States Glass Company. (See Haley, Reuben, assignor.)
United States, Government of the. (See Muir, Edward A., assignor.)
United States Graphotype Company. (See Nicholas, W., and Ackerman, assignors.)
United States Gypsum Company. (See Birdsey, Charles R., assignor.)
United States Gypsum Company. (See Payne, Caleb, assignor.)
United States Gypsum Company. (See Utzman, Clarence W., assignor.)
United States Gypsum Company. (See Wold, John H., assignor.)
United States Hoffman Machinery Company. (See Spencer, James B., assignor.)
United States Novelty Mfg. Co. (See Lavigne, Joseph R., assignor.)
United States of America. (See Dunlap, Matthew E., assignor.)
United States of America. (See Henning, Sherburne B., assignor.)
United States of America. (See Wells, Sidney D., assignor.)
United States of America, The. (See Sponsler, O. L., Dunlap, and Henning, assignors.)
United States Ordnance Company. (See Adelman, A., and Stambaugh, assignors.)
United States Ordnance Company. (See Bumpas and Falcke, assignors.)
United States Ordnance Company. (See Dawson, A. T., and Buckham, assignors.)
United States Ordnance Company. (See Ragsdale, Earle J. W., assignor.)
United States Ordnance Company. (See Stambaugh, H. J., and McCann, assignors.)
United States Ordnance Company. (See Stein, Rudolph F., assignor.)
United States Portable Cribbing Company. (See Brenton, Frank H., assignor.)
United States Printing and Lithograph Company, The. (See Fuelling, Louis H., assignor.)
United States Printing and Lithograph Company, The. (See Furste, Henry, assignor.)
United States Products Company. (See Hagmaier, Harry C., assignor.)
United States Railway Supply Company. (See McVoy, Vincen P., assignor.)
United States Sanitary Manufacturing Company. (See Dixon, J., and Shaffer, assignors.)
United States Sanitary Manufacturing Company. (See Jobe, J. S., and Dixon, assignors.)
United States Smelting, Refining & Mining Company. (See Cullen, J. F., and Udy, assignors.)
United States Smelting, Refining & Mining Company. (See Kilbourn, William D., assignor.)
United States Smelting Refining & Mining Company. (See Thum, W., Mulligan, and Schleicher, assignors.)
United States Spring Company. (See Riedele, Philip, assignor.)
United States Tire Company. (See Backdahl, Carl G. A., assignor.)
United States Tire Company, The. (See Jury, Alfred E., assignor.)
United States Wind Engine & Pump Company. (See Wenberg, Oscar A., assignor.)
United States Window Glass Company. (See Allan, James H., assignor.)
United States Window Glass Company. (See De Vaughn, Harry E., assignor.)
United States Window Glass Company. (See Warrick, Charles F., assignor.)
United Steel and Wire Co. (See Genebach, George J., assignor.)
United Wire and Supply Company. (See McIntyre, Patrick J., assignor.)
United-Xpedite Finishing Company. (See Julian, Gideon J., assignor.)
United-Xpedite Finishing Company. (See Limle, Edward B., assignor.)
United-Xpedite Finishing Company. (See Standish, John F., assignor.)
Unitrim Company, The. (See Mattison, Charles D., assignor.)
Universal Artificial Limb & Supply Co. (See Caron, Louis G., assignor.)
Universal Car & Hose Coupler Company. (See Herbert, Onesime, assignor.)
Universal Draft Gear Attachment Co. (See Nash, Charles J., assignor.)
Universal Draft Gear Attachment Co. (See Wrigley, Henry I., assignor.)
Universal Electric Welding Company. (See Lachman, Maurice, assignor.)
Universal Elevated Railway Co. (See McClure and Boulton, assignors.)
Universal Elevated Railway Co. (See McClure, R. A., and Boulton, assignors.)
Universal Elevated Railway Company. (See Stevens, H. R., and Rockwell, assignors.)
Universal Engineering Company. (See Andrews, E. F., and Acre, assignors.)
Universal Fixture Corporation. (See Cahusac, Clarence N., assignor.)
Universal Fixture Corporation. (See Lough, Hector V., assignor.)
Universal Grinding Machine Company. (See Robertson, A. C., and Volk, assignors.)
Universal High-Power Telephone Co. (See Hackett, Paul J., assignor.)
Universal Machinery Company, The. (See Maw, Robert, assignor.)
Universal Manufacturing Company. (See Clifton, Ray H., assignor.)
Universal Metal Company. (See Brown, M. Lewis, assignor.)
Universal Milking Machine Company, The. (See Eklundh, J. G. G., Oden, and Schmitt, assignors.)
Universal Motor Truck and Traction Engine Company. (See Timberlake, Daniel T., assignor.)
Universal Optical Corporation. (See Beattey, Earle J. R., assignor.)
Universal Optical Corporation. (See Searles, Wayne S., assignor.)
Universal Oxygen Company. (See Mueller, Rudolph J. J., assignor.)
Universal Package Tie Device Company. (See Bennor, Joseph N., assignor.)
Universal Paint Remover and Motor Cleaning Company. (See Cleveland, David P., assignor.)
Universal Patents Company. (See Jennings, Victor H., assignor.)
Universal Planer Company. (See Forward, Frank L., assignor.)
Universal Products Corporation. (See Chandler, Harry H., assignor.)
Universal Safety Tread Company. (See Oliver, Charles E., assignor.)
Universal Speed Control Company. (See Pratt, Charles R., assignor.)

Digitized by Google

Alphabetical list of patentees—Continued.

Universal Tide Power Co. (See Knowlton, John A., assignor.)
Universal Traffic Control Company. (See Wetter, Ralph E., assignor.)
Universal Turbine Company, The. (See Brolinson, Bengt G., assignor.)
Universal Utilities Company of Illinois, The. (See Goodhue, Julian G., assignor.)
Universal Winding Company. (See Foster, George W., assignor.)
Universal Winding Company. (See Parks, Edward F., assignor.)
Universal Winding Company. (See Marcroft, George, assignor.)
Unkel, Winnie J. (See Hoffman and Unkel.)
Uno, Umikichi, Tokyo, Japan. Electroplating non-conducting substances with copper. No. 1,352,331; Sept. 7; v. 278; p. 118.
Unruh, Herbert F., Meno, Okla. Leveling attachment. No. 1,349,928; Aug. 17; v. 277; p. 474.
Unsinger, Philip H., assignor to Geneva Cutlery Corporation, Geneva, N. Y. Safety-razor. No. 1,356,240; Oct. 19; v. 279; p. 446.
Unsworth, John, New York, N. Y. Slide. No. 1,343,598; June 15; v. 275; p. 505.
Untersee, Emil A. (See Boles, E. D., and Untersee.)
Updegraff, William B., Elizabeth, N. J. Tunnel construction. No. 1,355,290; Oct. 12; v. 279; p. 220.
Upham, Burt F., Brookline, Mass., assignor, by mesne assignments, to Cross Paper Feeder Company, Portland, Me. Mechanism for controlling the feeding and printing of sheets. No. 1,327,182; Jan. 6; v. 270; p. 57.
Upham, Burt F., assignor to United Printing Machinery Company, Boston, Mass. Printing-press. No. 1,348,253; Aug. 3; v. 277; p. 25.
Upham, Burt F., assignor to United Printing Machinery Company, Boston, Mass. Sheet-feeding mechanism. No. 1,348,254; Aug. 3; v. 277; p. 25.
Upjohn, Uriah C., Chicago, Ill. Tablet. No. 1,361,118; Dec. 7; v. 281; p. 28.
Upp, John W., Schenectady, N. Y., assignor to General Electric Company. Paper receptacle. No. 1,347,309; July 20; v. 276; p. 512.
Upp, William M., assignor of one-half to E. Rumsey, Kansas City, Mo. Electric primer. No. 1,329,345; Jan. 27; v. 270; p. 588.
Uppercu, Inglis M. (See Shaw, Samuel H., assignor.)
Uppercu, Inglis M., New York, N. Y. Valve mechanism. No. 1,346,617; July 13; v. 276; p. 316.
Uppling, Joseph D., Roxbury, Mass. Roller-skate. No. 1,345,038; June 29; v. 275; p. 916.
Upson, Oliver W., Euclid, Ohio. Anchor. No. 1,329,563; Feb. 3; v. 271; p. 41.
Upson, Ralph H., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Engine-hood and radiator cover. No. 1,327,891; Jan. 13; v. 270; p. 250.
Upson, Ralph H., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Reinforcing structure for airships and the like. No. 1,332,780; Mar. 2; v. 272; p. 116.
Upson, Ralph H., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Dirigible balloon. No. 1,336,601; Apr. 13; v. 273; p. 229.
Upson, Ralph H., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Kite-balloon. No. 1,341,248; May 25; v. 274; p. 694.
Upton, Gilbert W., Beckley, W. Va. Journal-box or flue puller. No. 1,863,934; Dec. 28; v. 281; p. 719.
Urban, Harry E., *et al.* (See Reider, John L., assignor.)
Urban, Henry, Washington, Pa. Lock for railway-car doors. No. 1,331,131; Feb. 17; v. 271; p. 435.
Urban, John, Caldwell, Tex. Shovel-plow. No. 1,331,296; Feb. 17; v. 271; p. 464.
Urbanek, Joseph, Chicago, Ill. Frame-actuating device. No. 1,338,267; Apr. 27; v. 273; p. 690.
Urbanek, Joseph, Chicago, Ill. Non-skidding device for wheels. No. 1,345,291; June 29; v. 275; p. 966.
Urbaner, Henry C., Naperville, Ill. Hand-press for shafting. No. 1,351,358; Aug. 31; v. 277; p. 863.
Urbaner, Henry C., Naperville, Ill. Power-hammer. No. 1,355,291; Oct. 12; v. 279; p. 120.
Urbaniak, Stanley E., Strandquist, Minn. End-gate-securing means. No. 1,360,474; Nov. 30; v. 280; p. 860.
Urbieta, José M., Del Rio, Tex. Car-axle lubricator. No. 1,340,808; May 18; v. 274; p. 538.
Urbina, Fernando, Mexico, Mexico. Pipe-line. No. 1,344,321; June 22; v. 275; p. 712.
Urchniak, Rudolph. (See Hilger, A. J., and Urchniak.)
Uriarte, Gorgonio, Madrid, Spain. Breakwater or the like. No. 1,353,001; Sept. 14; v. 278; p. 287.
Urie, David A., Chicago, Ill. Receptacle-filling machine. No. 1,343,696. June 15; v. 275; p. 525.
Uris, Harris H., New York, N. Y. Grating. No. 1,335,623; Mar. 30; v. 272; p. 868.
Urschel, William E., Valparaiso, Ind. Apparatus for snipping string-beans. No. 1,336,991; Apr. 13; v. 273; p. 304.
Ursino, Pasquale, Ellensburg, Wash. Ballast-surfacer. No. 1,343,533; June 15; v. 275; p. 493.
Urso, Benedetto, Fairmont, W. Va. Electric egg-boiler. No. 1,335,306; Mar. 30; v. 272; p. 809.
Ursus Motor Company. (See Jamicki, John, assignor.)
Ursus Motor Company. (See Szumkowski, Leonard S., assignor.)
Usborne, Cecil V., Westminster, London, England. Apparatus for the protection of ships against mines and the like. No. 1,355,718; Oct. 12; v. 279; p. 302.
Usher, George S., Waco, Tex. Railway-bed and rail-support. No. 1,350,900; Aug. 24; v. 277; p. 709.
Usinger, Matthias C., Philadelphia, Pa. Table-pad. No. 1,338,884; Mar. 16; v. 272; p. 435.
Usborne, Cecil V., Westminster, London, England. Towing device for use with ships. No. 1,340,924; May 25; v. 274; p. 631.
Ustrzycki, Stanislaw, and J. Bukola, Chicago, Ill. Plunger. No. 1,340,126; May 11; v. 274; p. 353.
Utah Idaho Sugar Co. (See Devey, John, assignor.)
Utes, William C., *et al.* (See Maltz, Meyer, assignor.)
Utica Valve and Fixture Company. (See Harris, George H., assignor.)
Utility Brush Company. (See Mills, John F., assignor.)
Utility Compressor Company. (See Holley, C. M., and Robison, assignors.)
Utility Devices Company. (See De Cano, Victor M., assignor.)
Utley, Arthur B., Springfield, Mo. Grapple. No. 1,356,841; Oct. 26; v. 279; p. 610.
Utley, Ralph E., Oak Park, Ill. Phonograph. No. 1,362,972; Dec. 21; v. 281; p. 491.
Uttech, Henry C., Lebanon, and A. E. Ohrmundt, Milwaukee, Wis. Oil-retainer. No. 1,353,095; Sept. 14; v. 278; p. 305.
Utter, Leon L. (See Johnson, Stephen G., assignor.)
Uttmark, Fritz E., New York, N. Y. Ship's-position-plotting chart. No. 1,337,168; Apr. 13; v. 273; p. 287.
Utz, John G., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Vehicle-spring. No. 1,330,923; Feb. 17; v. 271; p. 396.
Utz, John G., assignor to The Standard Parts Company, Cleveland, Ohio. Bearing. No. 1,339,991; May 11; v. 274; p. 327.
Utsman, Clarence W., assignor to United States Gypsum Company, Chicago, Ill. Machine for making plasterboard or the like. No. 1,330,413; Feb. 10; v. 271; p. 231.
V. B. M. Company. (See Moran, William F., assignor.)
V. & N. Lantern Co., The. (See Vinton, Frederick W., assignor.)
V. V. Fittings Company. (See Burns, James F., assignor.)
Vacuum Heat Manufacturing Company. (See Houck, Martin, assignor.)
Vacuum Machinery Co. (See Skidmore, B., Jr., and McCarthy, assignors.)
Vacuum Muffler Corporation, The. (See Andresen, Halvor, assignor.)
Vacuum Muffler Corporation of America. (See Shuman C. S., and Hanson, assignors.)
Vacuum Record Lifter. (See Menchen, Joseph, assignor.)
Vair, Alexander G., Ravenna, Ohio. Motor-vehicle. No. 1,349,743; Aug. 17; v. 277; p. 440.
Vacuumeter Selling Company. (See Sorensen, Frank F., assignor.)
Vagneux, Edmond F. L., Dijon, France. Understructure for supporting railway-tracks. No. 1,327,219; Jan. 6; v. 270; p. 64.
Vagnot, Jules C. (See Dulac, F. C., Vagnot, and Bessiron.)
Vail, Guy R., Battle Creek, Mich. Combined vacuum-producing and boiler-feeding apparatus. No. 1,332,698; Mar. 2; v. 272; p. 100.
Vail, Herbert E., Salt Lake City, Utah. Spark-plug protector. No. 1,357,661; Nov. 2; v. 280; p. 87.
Vail, Nathan R., and W. B. Coberly, Los Angeles, Calif. Apparatus for packing food products. No. 1,337,374; Apr. 20; v. 273; p. 451.
Valle, Pembroke A., assignor to R. F. Woods and H. S. Walsh, Chicago, Ill. Anchoring device. No. 1,332,651; Mar. 2; v. 272; p. 91.
Valsset, Louis P., called Vincet, Rouen, France. Self-acting pressure-buckle. No. 1,361,647; Dec. 7; v. 281; p. 134.
Vale, Alfred G. (See Williamson, J. E., Popken, and Vale.)
Vale, Ruby R., Milford, Del. Pneumatic vehicle-tire. No. 1,335,469; Mar. 30; v. 272; p. 839.
Valenta, Charles, Chicago, Ill. Carpet-stitching device. No. 1,339,307; May. 4; v. 274; p. 121.
Valente, Alessandro, and M. and S. Curzon, London, England. Safety-razor. No. 1,345,039; June 29; v. 275; p. 916.
Valentin, Marcel, Mexico, Mexico. Process and apparatus for dredging by suction. No. 1,351,979; Sept. 7; v. 278; p. 53.
Valentine, Charles A., Buffalo, N. Y. Oil-burning device. No. 1,345,419; July 6; v. 276; p. 18.
Valentine, Ernest D., Springfield, Ohio. Die for making pneumatic-tire treads. No. 1,333,047; Mar. 9; v. 272; p. 218.
Valentine, Malvern R., Victor, and W. S. Bruner, Cripple Creek, Colo. Attachment for stopping-drills. No. 1,359,935; Nov. 23; v. 280; p. 686.
Valeri, Olindo, Rome, Italy. Rail-support. No. 1,358,661; Nov. 9; v. 280; p. 346.

Digitized by Google

Alphabetical list of patentees—Continued.

Valeri, Olindo, Rome, Italy. Railway-tie. No. 1,362,458; Dec. 14; v. 281; p. 339.

Valerius, Theodore L., and O. Larsen, Fort Atkinson, Wis., assignors to The Creamery Package M'f'g Company, Chicago, Ill. Actuating mechanism for combined churns and butter-workers. No. 1,335,624; Mar. 30; v. 272; p. 869.

Valerius, Theodore L., and O. Larsen, Fort Atkinson, Wis., assignors to The Creamery Package Mfg. Company, Chicago, Ill. Ice-cream freezer. No. 1,354,927; Oct. 5; v. 279; p. 96.

Valk, Eugene E., Los Angeles, Calif., assignor to General Electric Company. Overload-relay. No. 1,347,767; July 27; v. 276; p. 660.

Vallender, Francis H., Arlington, Mass. Casting apparatus. No. 1,343,016; June 8; v. 275; p. 329.

Vallery, Benjamin, Colfax, La. Crate for syrup-cans. No. 1,359,451; Nov. 16; v. 280; p. 545.

Valley Electric Company. (See Ballman, Edwin C., assignor.)

Valley Mould and Iron Corporation. (See Coates, Ray G., assignor.)

Valli, Renato, East Hampton, Conn. Automatic signal. No. 1,335,470; Mar. 30; v. 272; p. 840.

Vallier, Wilfred F., Pontiac, Mich. Governor for internal-combustion engines. No. 1,327,847; Jan. 13; v. 270; p. 242.

Valls, Raphael W., assignor to The Champion Engineering Company, Kenton, Ohio. Driving mechanism for overhead traveling bridge-cranes. No. 1,328,934; Jan. 27; v. 270; p. 513.

Valois, Felix E., assignor to Hamel Shoe Machinery Company, Haverhill, Mass. Work-feeding mechanism for channeling-machines. No. 1,349,239; Aug. 10; v. 277; p. 268.

Valon, William A. M. (See Parrish, P., and Valon.)

Valtin, Joseph A., New York, N. Y. Bottle-capping machine. No. 1,362,904; Dec. 21; v. 281; p. 470.

Valve Bag Company, The. (See Hartman, Louis H. and C. H., assignors.)

Vanadium Corporation of America. (See Saklatwalla, Byramji D., and Anderson, assignors.)

Van Allen, Frederic L., Toronto, Ontario, Canada. Control for dual-control aeroplanes. No. 1,327,183; Jan. 6; v. 270; p. 57.

Van Allen, Frederic L., Regina, Saskatchewan, Canada. Apparatus of deseeding flax. No. 1,350,045; Aug. 17; v. 277; p. 498.

Van Allen, George L., Prince Bay, N. Y., assignor to Baker & Company, Inc. Alloy. No. 1,339,009; May 4; v. 274; p. 66.

Van Aller, Tycho, Schnectady, N. Y., assignor to General Electric Company. Cigar-lighter. No. 1,328,466; Jan. 20; v. 270; p. 396.

Van Alystyn, Albert T. (See Sacks, Herman, assignor.)

Van Alstyn, Albert T., Grand Rapids, Mich. Supporter. No. 1,328,406; Jan. 20; v. 270; p. 384.

Van Alstyn, Albert T., Grand Rapids, Mich. Catamenial bandage. (Reissue.) No. 14,830; Mar. 30; v. 272; p. 888.

Van Alstyn, Albert T., Grand Rapids, Mich. Catamenial bandage. (Reissue.) No. 14,924; July 20; v. 276; p. 548.

Vance, Arlyn T., assignor of one-half to F. J. Abbott, Jr., Los Angeles, Calif. Craft with automatic stabilizer. No. 1,350,579; Aug. 24; v. 277; p. 649.

Van Alstyn, Albert T., Grand Rapids, Mich. Separable buckle. No. 1,357,662; Nov. 2; v. 280; p. 87.

Van Amberg, Otto H., assignor to General Electric Company, Schenectady, N. Y. Luminous attachment. No. 1,355,193; Oct. 12; v. 279; p. 201.

Van Amstel, Tudor, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,337,736; Apr. 20; v. 273; p. 520.

Van Arsdale, George D., and C. G. Maier, New York, N. Y. Treatment of manganese ores. No. 1,348,068; July 27; v. 276; p. 720.

Vanasdale, Oliver E., York, Pa. Trolley-harp. No. 1,331,540; Feb. 24; v. 271; p. 531.

Van Assche, Albert E., assignor of one-fourth to J. J. Esper, Dearborn, Mich. Oil-burner. No. 1,334,473; Mar. 23; v. 272; p. 592.

Vanatter, Phares O., Athens, Ga. Rinse-tub. No. 1,357,749; Nov. 2; v. 280; p. 104.

Van Avermaete, Maurice, The Hague, Netherlands. Device for applying gluten, coating material, or the like to a support-base or underlayer. No. 1,361,932; Dec. 14; v. 281; p. 237.

Van Barth, Arthur, New York, N. Y. Heat-treating apparatus. No. 1,359,936; Nov. 23; v. 280; p. 686.

Van Berendonck, Philippe E., assignor to Berendonck Section Tyre Syndicate Ltd., Amsterdam, Netherlands. Pneumatic tire. No. 1,332,149; Feb. 24; v. 271; p. 645.

Van Berkel, Cornelis F. M., assignor to U. S. Slicing Machine Company, Laporte, Ind. Slicing-machine. No. 1,335,036; Mar. 30; v. 272; p. 759.

Van Berkel, Cornelis F. M., Rotterdam, Netherlands, assignor to U. S. Slicing Machine Company, Laporte, Ind. Slicing-machine. No. 1,339,590; May 11; v. 274; p. 251.

Van Berkel, Cornelis F. M., assignor to U. S. Slicing Machine Company, Laporte, Ind. Slicing-machine. No. 1,346,996; July 20; v. 276; p. 450.

Van Berkel, Cornelius F. M., assignor to U. S. Slicing Machine Company, Laporte, Ind. Feed-screw. No. 1,346,997; July 20; v. 276; p. 451.

Vanblom, Albert, Rockford, Ill. Shoe-heel. No. 1,347,422; July 20; v. 276; p. 534.

Van Bree, Hubert, Racine, Wis. Motor-driven hair-clipper. No. 1,357,364; Nov. 2; v. 280; p. 31.

Van Briggle, Lilburn H., Indianapolis, Ind. Shock-absorber. No. 1,328,641; Jan. 20; v. 270; p. 428.

Van Brocklen, M. E., and R. Halden, Amsterdam, N. Y. Roller-cleaner. No. 1,352,852; Sept. 14; v. 278; p. 258.

Van Brunt, John, assignor to Combustion Engineering Corporation, New York, N. Y. Furnace grate-bar. No. 1,329,447; Feb. 3; v. 271; p. 19.

Van Brunt, John, assignor to Combustion Engineering Corporation, New York, N. Y. Valve. No. 1,345,518; July 6; v. 276; p. 37.

Van Brunt Manufacturing Company. (See Schaeffer, John, assignor.)

Van Brunt Manufacturing Company, The. (See Van Brunt, Willard A., assignor.)

Van Brunt, Willard A., Los Angeles, Calif., assignor to The Van Brunt Manufacturing Company, Horicon, Wis. Spring-pressure-regulating device. No. 1,340,581; May 18; v. 274; p. 496.

Van Camp, John, Long Beach, assignor of one-half to J. E. Owen, Venice, Calif. Amusement device. No. 1,339,871; May 11; v. 274; p. 304.

Van Camp Packing Co., The. (See Lemon, Robert L., assignor.)

Vance, Walter N., Chicago Heights, assignor to Durand Steel Locker Company, Chicago, Ill. Forming tubes. No. 1,344,105; June 22; v. 275; p. 670.

Vancil, William N., assignor of one-third to A. D. Leedy, Canyon City, Oreg. Sage-brush grubber. No. 1,331,731; Feb. 24; v. 271; p. 567.

Van Clief, Ray A., Buffalo, N. Y. Label. No. 1,349,396; Aug. 10; v. 277; p. 299.

Vandamark, Olive E., Los Angeles, Calif. Curler. No. 1,345,040; June 29; v. 275; p. 917.

Vandecar, Aaron, assignor to Colonial Machine Company, Inc., Syracuse, N. Y. Weighing-scale. No. 1,346,862; July 20; v. 276; p. 423.

Vandercar, William J., Cohoes, N. Y., assignor to Colonial Machine Company, Inc., Syracuse, N. Y. Advertising device for weighing-scales. No. 1,346,923; July 20; v. 276; p. 436.

Vandegrift, James N., assignor to Railway Roller Bearing Company, Syracuse, N. Y. Roller-bearing. No. 1,331,686; Feb. 24; v. 271; p. 558.

Vandegrift, James N., Red Bank, N. J. Circuit-closing thermostat. No. 1,348,338; Aug. 3; v. 277; p. 41.

Van Demark, Chester A., Kingston, N. Y. Mattress-holder. No. 1,336,003; Apr. 6; v. 273; p. 57.

Van den Boom, A., *et al.* (See Lundy, Lundy, S., assignor.)

Vandenburgh, Warren E., and G. S. Grems, Milford, Iowa. Reinforcement for wheel knuckle-joints. No. 1,344,192; June 22; v. 275; p. 687.

Van den Heuvel, William, Los Angeles, Calif. Cableway. No. 1,362,275; Dec. 14; v. 281; p. 305.

Van den Heuvel, William, assignor to L. S. Adams, Los Angeles, Calif. Spiral cutter. No. 1,363,444; Dec. 28; v. 281; p. 623.

Van der Bijl, Hendrik J., assignor to Western Electric Company, Incorporated, New York, N. Y. Producing currents of desired wave form. No. 1,337,737; Apr. 20; v. 273; p. 520.

Van der Bijl, Hendrik J., New York, N. Y., assignor, by mesne assignments, to Western Electric Company, Incorporated. High-frequency signaling. No. 1,350,752; Aug. 24; v. 277; p. 682.

Vanderdonck, Alphonse, Brooklyn, N. Y. Pulley, brake, and grip. No. 1,345,292; June 29; v. 275; p. 966.

Vanderdonck, Alphonse, Brooklyn, N. Y. Gripping device. No. 1,362,905; Dec. 21; v. 281; p. 479.

Vanderhoof, Herbert H., San Francisco, Calif. Violin-mute. No. 1,344,968; June 29; v. 275; p. 903.

Vanderkleed, Charles E., Collingswood, N. J., assignor to Hercules Powder Company, Wilmington, Del. Making manganates. No. 1,339,242; May 4; v. 274; p. 109.

Van der Leun, Cornelis, The Hague, Netherlands. Lock. No. 1,342,075; June 1; v. 275; p. 90.

Vanderlip, Louis C., Elkhart, Ind. Automobile-steering-wheel lock. No. 1,330,414; Feb. 10; v. 271; p. 281.

Vanderlip, Louis C., Elkhart, Ind. Pneumatic conveyer. No. 1,346,144; July 13; v. 276; p. 223.

Vanderlip, Louis C., Elkhart, Ind. Steering-wheel lock. No. 1,359,921; Nov. 23; v. 280; p. 683.

Vander Putten, John R. (See Merriman, Grove R., assignor.)

Vander Putten, John R., Akron, assignor to The Wise-McClung Manufacturing Company, New Philadelphia, Ohio. Suction Carpet Sweeper. (Reissue.) No. 14,971; Oct. 26; v. 279; p. 683.

Van der Toorn, Jacobus J. W. H., assignor to Industrie & Mijnbouw Maatschappij Titan, The Hague, Netherlands. Titaniferous iron ore. No. 1,334,004; Mar. 16; v. 272; p. 458.

Vanderveer, Jean J., Brattleboro, Vt. Bookmark. No. 1,346,729; July 13; v. 276; p. 338.

Vanderveld, Anthony, assignor to Grand Rapids Show Case Co., Grand Rapids, Mich. Shelving-support. No. 1,327,748; Jan. 13; v. 270; p. 224.

Digitized by Google

Alphabetical list of patentees—Continued.

Vandervell, C. A., & Company. (See Midgley, Albert H., assignor.)
Van Derver, Clarence A. (See Lang, E. C., and Van Derveer.)
Van Der Vorn, Jacob, Chicago, Ill. Boring-tool. No. 1,350,394; Aug. 24; v. 277; p. 612.
Van Dervort, Adrian O., Troy, N. Y. Packing-box for piston-rods. No. 1,350,046; Aug. 17; v. 277; p. 498.
Van Deuren, Pierre, Brasschaet, Belgium, assignor to Societe Anonyme pour l'Exploitation des Procedes Westinghouse Leblanc, Paris, France. Projectile. No. 1,360,602; Nov. 30; v. 280; p. 885.
Vandeveer, Perry. (See Drake, A. H., and Vandeveer.)
Van Deventer, Harry R., Sumter, S. C., assignor to Splitdorf Electrical Company, Newark, N. J. Ignition device. No. 1,327,361; Jan. 6; v. 270; p. 89.
Van Deventer, Harry R., Sumter, S. C., assignor to Splitdorf Electrical Company, Newark, N. J. Ignition device. No. 1,327,502; Jan. 6; v. 270; p. 116.
Van Deventer, Harry R., Sumter, S. C., assignor to Splitdorf Electrical Company, Newark, N. J. Combined generator and pump. No. 1,349,397; Aug. 10; v. 277; p. 299.
Van Deventer, Harry R., Sumter, S. C., assignor to Splitdorf Electrical Company, Newark, N. J. Combined generator and lamp for moving vehicles. No. 1,355,581; Oct. 12; v. 279; p. 276.
Van Deventer, James E., and L. Swank, assignors to Dwiggins Wire Fence Company, Anderson, Ind. Automobile-lock. No. 1,329,644; Feb. 3; v. 271; p. 56.
Van De Voort, Camiel, Haledon, N. J. Picking-motion-checking means for looms. No. 1,342,726; June 8; v. 275; p. 270.
Van Dohlan, Richard, Leavenworth, Kans., assignor of one-fourth to Frederick C. Johns, East St. Louis, Ill. Protecting device. No. 1,355,719; Oct. 12; v. 279; p. 302.
Van Dolsen, Emmet L., Shelbyville, Ind. Power-unit-locating means. No. 1,350,347; Aug. 24; v. 277; p. 602
Van Dolsen, William W., Philadelphia, Pa. Operating-table. No. 1,361,420; Dec. 7; v. 281; p. 88.
Van Doorn, Anthonius M., Newton, assignor, by mesne assignments, to American Thermophone Company, Boston, Mass. Machine for making thermophone-blanks. No. 1,338,886; May 4; v. 274; p. 43.
Van Doorn, Anthonius M., Newton, assignor, by mesne assignments, to American Thermophone Company, Boston, Mass. Machine for finishing thermophones. No. 1,338,887; May 4; v. 274; p. 44.
Van Doorn, Anthonius M., Newton, assignor, by mesne assignments, to American Thermophone Company, Boston, Mass. Making thermophones. No. 1,338,888; May 4; v. 274; p. 44.
Van Doren, C. L., Inc. (See Oathout, Arthur N., assignor.)
Van Dorn, Herbert E., Chicago, Ill. Car-coupling. No. 1,344,780; June 29; v. 275; p. 868.
Van Dusen, Charles A., Toledo, Ohio, assignor, by mesne assignments, to The Toledo Standard Commutator Company. Commutator and producing same. No. 1,329,277; Jan. 27; v. 270; p. 577.
Van Dusen, Charles A., assignor, by mesne assignments, to The Toledo Standard Commutator Co., Toledo, Ohio. Spool or holder for commutators. No. 1,354,007; Sept. 28; v. 278; p. 589.
Van Dusen, Ralph L. (See Pruitt, Conrad D., assignor.)
Van Dyke, Benjamin G., Jr., Detroit, Mich. Car-truck and mounting. No. 1,331,887; Feb. 24; v. 271; p. 597.
Van Dyke, Benjamin G., Jr., Detroit, Mich. Railway-track crossing. No. 1,354,080; Sept. 28; v. 278; p. 605.
Van Dyke, Karl S., Chicago, Ill., assignor to American Telephone and Telegraph Company. Magnetic modulator. No. 1,357,264; Nov. 2; v. 280; p. 12.
Vanerka, Albert C., Chicago, Ill. Window-shade carrier. No. 1,345,203; June 29; v. 275; p. 966.
Van Fleet, Clinton W. (See Nebergall, Philip V., assignor.)
Van Fleet, Edwin W., assignor of one-half to D. Cozzo Jino, Los Angeles, Calif. Moving-picture theater. No. 1,348,069; July 27; v. 276; p. 720.
Vang, Peder C., Omaha, Nebr. Valve-spring remover. No. 1,328,776; Jan. 20; v. 270; p. 453.
Van Geem, John, Erie, Pa. Measuring device. No. 1,359,004; Nov. 16; v. 280; p. 458.
Van Genderen, Cornelius, Sully, assignor of fifty one-hundredths to B. T. Bouma, Lynnville, Iowa. Nut-lock. No. 1,359,916; Nov. 2; v. 280; p. 137.
Van Guelpen, Louis J., Cincinnati, Ohio. Burnishing tool. No. 1,362,762; Dec. 21; v. 281; p. 452.
Van Guilder, Walter, assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Speed-indicating instrument. No. 1,353,865; Sept. 28; v. 278; p. 561.
Van Haagen, John C., Philadelphia, Pa. Automatic heater and holder-on for rivets for riveting purposes. No. 1,358,900; Nov. 16; v. 280; p. 489.
Van Heusen, John M., Jamaica Plain, Mass. Collar. No. 1,352,563; Sept. 14; v. 278; p. 200.
Van Heusen, John M., Jamaica Plain, Mass. Shirt. No. 1,352,704; Sept. 14; v. 278; p. 228.
Van Heusen, John M., Jamaica Plain, Mass. Collar. No. 1,352,705; Sept. 14; v. 278; p. 228.
Van Heusen, John M., Jamaica Plain, Mass. Collar. No. 1,352,706; Sept. 14; v. 278; p. 228.
Van Heusen, John M., Boston, Mass. Garter. No. 1,357,929; Nov. 2; v. 280; p. 139.
Van Heyst, Floris A. (See Schoute, C., Van Heyst and Meyer.)
Van Horn, Charles B., Detroit, Mich. Valve for fluid-compressors. No. 1,361,033; Dec. 14; v. 281; p. 237.
Van Horn, Samuel E., Manhasset, N. Y. Float for boats. No. 1,352,770; Sept. 14; v. 278; p. 241.
Van Houten, Frank H., assignor to Dutchess Tool Company, Beacon, N. Y. Attachment for dough-molding machines. No. 1,333,885; Mar. 16; v. 272; p. 435.
Van Houten, Frank H., assignor to Dutchess Tool Company, Beacon, N. Y. Machine for spacing lumps of dough. No. 1,333,886; Mar. 16; v. 272; p. 436.
Van Houten, Frank H., Jr., Beacon, assignor to Dutchess Tool Company, New York, N. Y. Oiling hoppers. No. 1,328,308; Jan. 20; v. 270; p. 365.
Van Iderstine, Raymond, Newark, N. J. Display-carton. No. 1,340,744; May 18; v. 274; p. 526.
Van Iterson, Frederick K. T. (See Kuypers, Gerard, assignor.)
Van Keulen, Godefridus H. C., Apeldoorn, Netherlands. Steam-pump. No. 1,356,241; Oct. 19; v. 279; p. 446.
Van Keuren, Henry P., Lansing, Mich. Airplane. No. 1,346,570; July 13; v. 276; p. 307.
Van Kooy, Fred, Milwaukee, Wis. Ventilating-grating. No. 1,333,759; Mar. 16; v. 272; p. 412.
Van Loozen, Fred H., Lakewood, Ohio. Demountable rim. No. 1,333,232; Mar. 9; v. 272; p. 252.
Van Lynden, Robert A. (See de Lange and van Lynden.)
Van Meter, George F., Indianapolis, Ind. Adjustable caster. No. 1,328,775; Jan. 20; v. 270; p. 453.
Van Meter, George F., Indianapolis, Ind. Adjustable caster. No. 1,345,294; June 29; v. 275; p. 966.
Van Meter, James W., Buenos Aires, Argentina. Animal exterminator. No. 1,347,310; July 20; v. 276; p. 512.
Vanmeter, James W., San Francisco, Calif. Stamp-mill. No. 1,353,096; Sept. 14; v. 278; p. 505.
Vanmeter, James W., San Francisco, Calif. Ore stamp-mill. No. 1,353,097; Sept. 14; v. 278; p. 305.
Van Meter, James W., assignor to G. Moore, San Francisco, Calif. Pump mechanism. No. 1,358,800; Nov. 16; v. 280; p. 419.
Van Meter, James W., assignor to T. C. Moore, San Francisco, Calif. Internal-combustion engine. No. 1,361,648; Dec. 7; v. 281; p. 134.
Van Meter, Jesse, Champaign, Ill. Locomotive-blow-off-cock device. No. 1,358,266; Nov. 9; v. 280; p. 266.
Van Meter, Richard F., Minneapolis, Minn. Spark-gap device. No. 1,341,348; May 25; v. 274; p. 714.
Van Meeteren, Harry W., Edgbaston, Birmingham, England. Tire-securing device. No. 1,331,541; Feb. 24; v. 271; p. 531.
Vannam-Smith, W. A., Caversham, near Reading, and T. J. Maynard, Birmingham, England. Hoop-removing tool. No. 1,357,533; Nov. 2; v. 280; p. 62.
Van Ness, Henry E., Elmira, N. Y. Groove-cutting machine. No. 1,362,202; Dec. 14; v. 281; p. 291.
Van Nest, Lin A., La Junta, Colo. Roof-framing tool. No. 1,337,107; Apr. 13; v. 273; p. 326.
Van Norman, Charles E., Springfield, Mass. Tool-carrying spindle. No. 1,339,308; May 4; v. 274; p. 121.
Van Nostrand, Charles H., Orange, and H. E. Schulse, Jersey City, N. J., said Schulse assignor to said Van Nostrand. Apparatus for the manufacture of filtering-films. No. 1,355,292; Oct. 12; v. 279; p. 120.
Vannucci, Arturo, Belle Vernon, assignor of one-half to E. Bonari, Monessen, Pa. Tine-doubling machine. No. 1,355,720; Oct. 12; v. 279; p. 303.
Vanorio, Joseph. (See Rapp, J. W., and Vanorio.)
Van Ornum, Harry G., Piercefield, N. Y. Paper-making machine. No. 1,342,655; June 8; v. 275; p. 256.
Van Orsdale, Allen A., Philadelphia, Pa. Lubricator. No. 1,355,194; Oct. 12; v. 279; p. 201.
Van Orsdale, Allen A., Philadelphia, Pa. Lubricator. No. 1,355,195; Oct. 12; v. 279; p. 201.
Van Osdel, Samuel A., Johnson, Nebr. Tonsillotome. No. 1,361,649; Dec. 7; v. 281; p. 135.
Van Osdel, William J., Chicago, Ill. Rotary engine. No. 1,351,933; Sept. 7; v. 278; p. 44.
Van Patten, Louis C., assignor to Rotary Rod Weeder and Manufacturing Company, Incorporated, Cheney, Wash. Rotary-rod weeder. No. 1,338,200; Apr. 27; v. 273; p. 677.
Van Patten, Louis C., assignor to Rotary Rod Weeder and Manufacturing Company, Incorporated, Cheney, Wash. Rotary-rod weeder. No. 1,338,201; Apr. 27; v. 273; p. 677.
Van Pelt, Herbert N. (See Van Pelt, James A., assignor.)
Van Pelt, James A., assignor of one-half to H. N. Van Pelt, Morrilton, Ark. Well-bucket. No. 1,350,348; Aug. 24; v. 277; p. 602.
Van Riper, Richard T. (See Thompson, William H., assignor.)
Van Sant, Victor H., Newark, N. J. Air-inlet device No. 1,342,193; June 1; v. 275; p. 114.
Van Santen, Harm H., Delft, Netherlands. Means employed in card-accounting systems. No. 1,336,992; Apr. 13; v. 273; p. 304.
Van Sicklen Speedometer Company. (See Prouty, Theodore C., assignor.) (Reissue.)
Van Sickles, Irvin N., New Haven, Conn. Broom-holder No. 1,332,086; Feb. 24; v. 271; p. 634.

Digitized by Google

Van Tassel, John R., assignor to Standard Optical Company, Geneva, N. Y. Ophthalmic mounting. No. 1,350,430; Aug. 24; v. 277; p. 619.
Van Tilborg, Cornelius H. (See Goold, Everett E., assignor.)
Van Tuyl, Carl L., Bison, Kans. Canopy for beds. No. 1,349,929; Aug. 17; v. 277; p. 475.
Van Valer, De Witt C., assignor of one-half to H. W. Geyer, New York, N. Y. Lever-filler for fountain-pens. No. 1,328,215; Jan. 13; v. 270; p. 312.
Van Valkenburg, Burt R., Oakland, Calif. Valve-chest. No. 1,328,796; Jan. 20; v. 270; p. 457.
Van Valkenburg, Burt R., Oakland, Calif. Primary valve for pneumatic musical instruments. No. 1,350,395; Aug. 24; v. 277; p. 612.
Van Valkenburg, Burt, R., Oakland, Calif., assignor to American Photo Player Company, Berkeley, Calif. Vacuum-pump. No. 1,350,396; Aug. 24; v. 277; p. 612.
Van Valkenburg, Hermon L., assignor to Industrial Controller Company, Milwaukee, Wis. Magnetic contactor. No. 1,341,867; June 1; v. 275; p. 50.
Van Valkenburg, Hermon L., assignor to Industrial Controller Company, Milwaukee, Wis. Motor-starter. No. 1,361,934; Dec. 14; v. 281; p. 237.
Van Valkenburg, Peter, Otterville, Ontario, Canada. Music-leaf clip. No. 1,347,135; July 20; v. 276; p. 477.
Van Viersen, Jacob H., The Hague, Netherlands. Soldering-iron. No. 1,332,937; Mar. 9; v. 272; p. 197.
Van Viersen, Jacob H., The Hague, Netherlands. Bicycle-lock. No. 1,343,856; June 15; v. 275; p. 558.
Van Vleck, Charles E. (See Spohrer, Gregory J., assignor.)
Van Vleck, Horace R., Montclair, N. J., assignor to The Motor-Compressor Company. Starting mechanism for internal-combustion engines. No. 1,329,152; Jan. 27; v. 270; p. 554.
Van Vleet, Charles W., assignor of three-eighths to J. T. Maxwell, Saugerties, N. Y., and one-eighth to H. S. Howland, Montclair, N. J. Match-boxing machine. No. 1,345,420; July 6; v. 276; p. 18.
Van Vleet, Charles W., and R. E. Haley, assignors of one-third to J. T. Maxwell, Saugerties, N. Y. Chassis. No. 1,345,421; July 6; v. 276; p. 19.
Van Volkenburg, Lester R., assignor to Avery Company, Peoria, Ill. Tool for refacing valve-seats. No. 1,350,901; Aug. 24; v. 277; p. 709.
Van Vorst, George E. and J., Scotia, N. Y. Melting-kettle. No. 1,355,931; Oct. 19; v. 279; p. 384.
Van Vorst, John. (See Van Vorst, George E. and J.)
Van Wijk, Pieter G., Geldermalsen, Netherlands. Electromagnetic overload cut-out magnet. No. 1,350,902; Aug. 24; v. 277; p. 709.
Van Wormer Arba, Fort Wayne, Ind. Shutter for cinematographs. No. 1,342,076; June 1; v. 275; p. 91.
Van Zandt, Paul C., Chicago, Ill., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Combination-mill and efficient operation thereof. No. 1,361,205; Dec. 7; v. 281; p. 44.
Vanzile, Daniel, Vredenburgh, Ala. Steam-feed-valve control mechanism. No. 1,348,607; Aug. 3; v. 277; p. 93.
Vanzile, Daniel, Vredenburgh, Ala. Steam-feed valve. No. 1,348,608; Aug. 3; v. 277; p. 93.
Vapor Car Heating Company. (See Loudon, Warren P., assignor.)
Vapor Car Heating Company. (See Russell, Edward A., assignor.)
Vapor Car Heating Company. (See Schreiber, Edward A., assignor.)
Varble, Harold, El Monte, Calif. Machine for printing upon nuts, &c. No. 1,334,822; Mar. 23; v. 272; p. 658.
Varble, John M., *et al.* (See Shannon, Richard A., assignor.)
Vardell, Arthur A., deceased, Dallas, Tex.; H. G. Vardell, executrix. Huller. No. 1,362,973; Dec. 21; v. 281; p. 492.
Vardell, Highland G., executrix. (See Vardell, Arthur A.)
Varicle, Roger H., Los Angeles, Calif. Garment-hanger. No. 1,341,827; June 1; v. 275; p. 42.
Variety Manufacturing Company. (See Gervais, Wainwright B., assignor.)
Varin, Joseph, assignor of one-half to T. Ducharme, Montreal, Quebec, Canada. Ignition device for gas-stoves. No. 1,361,650; Dec. 7; v. 281; p. 135.
Varland, Hiram H., Clark, S. D. Combined manure loader and spreader. No. 1,346,433; July 13; v. 276; p. 280.
Varley Duplex Magnet Company. (See Anderson, James C., assignor.)
Varley Duplex Magnet Company. (See Varley, Richard, assignor.)
Varley, Richard, Englewood, N. J. Magneto-generator. No. 1,332,652; Mar. 2; v. 272; p. 91.
Varley, Richard, Englewood, N. J. Electrical system. No. 1,344,463; June 22; v. 275; p. 741.
Varley, Richard, Englewood, N. J., assignor to Varley Duplex Magnet Company. Circuit-controller for explosive-engines. No. 1,344,464; June 22; v. 275; p. 741.
Varley, Richard, Englewood, N. J., assignor to Varley Duplex Magnet Company. Battery-protecting device for charging and lighting systems. No. 1,361,651; Dec. 7; v. 281; p. 135.
Varley, Thomas W., New York, N. Y. Electric meter. No. 1,352,564; Sept. 14; v. 278; p. 200.
Varley, Thomas W., New York, N. Y. Electrical system. No. 1,358,901; Nov. 16; v. 280; p. 439.
Varndell, Sydney H. (See Karck and Varndell.)
Varner, William I., Athens, Ga. Automobile-tire. No. 1,327,503; Jan. 6; v. 270; p. 116.
Varney, Albert I., New Hampton, N. H. Chain-lock. No. 1,337,419; Apr. 20; v. 273; p. 459.
Varney, Everett W., Newton, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Lasting-machine. No. 1,358,127; Nov. 9; v. 280; p. 239.
Varney, William T., Vancouver, British Columbia, Canada. Distributer for rock-pulp. No. 1,342,727; June 8; v. 275; p. 271.
Varney, Wyman H. (See Coppus, F. H. C., and Varney.)
Vartull Francis C., Winooski, Vt. Combination-lock. No. 1,352,771; Sept. 14; v. 278; p. 241.
Varoga, John, Pittsburgh, Pa. Lock-nut. No. 1,341,400; May 25; v. 274; p. 724.
Vasconcellos, Edward R., Chicago, Ill. Toy shooting-gallery. No. 1,361,119; Dec. 7; v. 281; p. 28.
Vasey, William G., Lakeside, Oreg. Butt-hook. No. 1,336,666; Apr. 13; v. 273; p. 241.
Vass, Harry, Summit, N. J. Tractor-wheel. No. 1,346,145; July 13; v. 276; p. 223.
Vasselli, Anthony. (See Catucci, P., and Vasselli.
Vasselli, Anthony, Newark, N. J., assignor, by mesne assignments, to Harriman National Bank of the City of New York. Fastening device. No. 1,328,064; Jan. 13; v. 270; p. 283.
Vasselli, Anthony, Newark, N. J., assignor, by mesne assignments, to Harriman National Bank of the City of New York. Shaft for talking-machines. No. 1,328,065; Jan. 13; v. 270; p. 283.
Vasselli, Anthony, Newark, N. J., assignor, by mesne assignments, to Harriman National Bank of the City of New York. Level-winder. No. 1,328,066; Jan. 13; v. 270; p. 283.
Vasselli, Anthony, Newark, N. J., assignor, by mesne assignments, to Harriman National Bank of the City of New York, trustee. Tone-arm for talking-machines. No. 1,350,753; Aug. 24; v. 277; p. 682.
Vasselli, Anthony, Newark, N. J., assignor, by mesne assignments, to Harriman National Banks of the City of New York, trustee. Spring-retainer. No. 1,350,754; Aug. 24; v. 277; p. 683.
Vaudreuil, Edward J., Eau Claire, Wis. Preparing green beans for canning; No. 1,344,069; June 22; v. 275; p. 664.
Vaudreuil, Edward J., Eau Claire, Wis. Snipping beans. No. 1,351,088; Aug. 31; v. 277; p. 808.
Vaudreuil, Edward J., Eau Claire, Wis. Apparatus for snipping beans. No. 1,351,143; Aug. 31; v. 277; p. 819.
Vaudreuil, John, Milwaukee, Wis. Casing for dish-washing machine. No. 1,345,519; July 6; v. 276; p. 38.
Vaughan, David, Youngstown, Ohio. Overhead-valve lifter. No. 1,340,192; May 18; v. 274; p. 422.
Vaughan, David F., Riverton, N. J. Combined tie-plate and rail-brace. No. 1,342,194; June 1; v. 275; p. 114.
Vaughan, Ernest M., Brooklyn, N. Y. Automatic closure for automobile-radiators and the like. No. 1,335,356; Mar. 30; v. 272; p. 819.
Vaughan, George W., Mount Vernon, N. Y. Frog foot-guard. No. 1,340,582; May 18; v. 274; p. 496.
Vaughan, Jay W., Chicago, Ill. Combined work-table and gage. No. 1,336,799; Apr. 13; v. 273; p. 268.
Vaughan, P. E., and S. M. Halstead, San Jose, Calif. Well construction. No. 1,353,132; Sept. 14; v. 278; p. 312.
Vaughan, Robert B., and R. M. Love, Dallas, Tex. Curing-house. No. 1,354,008; Sept. 28; v. 278; p. 589.
Vaughan, Sanford S., Oak Park, Ill. Carpenter's hand-hammer. No. 1,356,673; Oct. 26; v. 279; p. 577.
Vaughan, William H. (See Jenkins, William M., and Vaughan.)
Vaughan, William S., Newcastle-upon-Tyne, England. Crane. No. 1,346,068; July 6; v. 276; p. 146.
Vaughn, Arthur D. (See Lang, D. W., and Vaughn.)
Vaughn, Francis A., Milwaukee, Wis. Insulating and protecting transformers or other electrical apparatus. No. 1,333,004; Mar. 9; v. 272; p. 210.
Vaughn Rail Support Company. (See Einstein, Robert E., assignor.)
Vaught, James C. H., New York, N. Y. Power-drill. No. 1,340,468; May 18; v. 274; p. 474.
Vavra, Frank P., Congress Park, Ill. Paraffining-machine. No. 1,327,299; Jan. 6; v. 270; p. 78.
Vavra, Frank P., Cicero, Ill. Machine for coating blanks with paraffin. No. 1,327,300; Jan. 6; v. 270; p. 78.
Vavra, Frank P., Cicero, Ill. Machine for coating blanks with paraffin. No. 1,345,719; July 6; v. 276; p. 77.
Vavra, Frank P., Cicero, Ill. Paraffin-coating machine. No. 1,345,720; July 6; v. 276; p. 77.
Veale, Thomas H., Camp Devens, Mass. Dental appliance. No. 1,346,998; July 20; v. 276; p. 451.
Veara, Albert L., Bridgeport, Conn. Permutation-lock. No. 1,340,583; May 18; v. 274; p. 496.
Veasey, Edward J., Lima, Ohio. Voting-booth. No. 1,329,731; Feb. 3; v. 271; p. 72.
Veatch, Leslie R., Buffalo, N. Y. Feed-mixer. No. 1,353,978; Sept. 28; v. 278; p. 583.
Veazey, Edgar C., West Point, Va. Tobacco-furnace. No. 1,359,550; Nov. 23; v. 280; p. 610.

Digitized by Google

Alphabetical list of patentees—Continued.

Veazey, William R. (See Smith, A. W., and Veazey.)
Veazey, William R., Cleveland, Ohio, assignor to The Dow Chemical Company, Midland, Mich. Magnesium alloy. No. 1,334,193; Mar. 16; v. 272; p. 493.
Vedder, Dwight G., Bakersfield, Calif. Method and apparatus for shutting water out of oil-wells. No. 1,342,780; June 8; v. 275; p. 282.
Vedder, Dwight G., Bakersfield, Calif. Shutting a deleterious fluid out of value-producing wells. No. 1,342,781; June 8; v. 275; p. 282.
Vedetto, Veto A., Philadelphia, Pa. Garment-hanger. No. 1,356,946; Oct. 26; v. 279; p. 630.
Veeder, Curtis H., assignor to The Veeder Manufacturing Company, Hartford, Conn. Indicator for magazine-guns. No. 1,332,936; Mar. 9; v. 272; p. 196.
Veeder, Curtis H., assignor to The Veeder Manufacturing Company, Hartford, Conn. Operating device for voting-machine registers. No. 1,342,476; June 8; v. 275; p. 222.
Veeder Manufacturing Company, The. (See Veeder, Curtis H., assignor.)
Veeder, Orison, New Windsor, Ill. Vertically-adjustable gate. No. 1,349,173; Aug. 10; v. 277; p. 254.
Veenschoten, Vincent V., assignor to Northern Equipment Company, Erie, Pa. Feed-water-regulator system. No. 1,340,846; May 18; v. 274; p. 545.
Veerac Company. (See Merrill, Frank H., assignor.)
Vegas, Marcelino H. (See Vegas, Rafael H. and M. H.)
Vegas, Rafael H. and M. H., Buenos Aires, Argentina. Coloring product and tinctorial mordant. No. 1,330,992; Feb. 17; v. 271; p. 409.
Vehrs, Ernest R., Nekoosa, Wis. Gang-plow. No. 1,362,454; Dec. 14; v. 281; p. 339.
Veil, Jules C., Weehawken, N. J. Heating and ventilating system. No. 1,331,404; Feb. 17; v. 271; p. 485.
Veilleux, Alfred J. (See Thibeault, Dello, assignor.)
Veilleux, Louis, and P. H. Leveque, assignors of one-third to J. Barnes, New Bedford, Mass. Thread-tensioning device. No. 1,356,026; Oct. 19; v. 279; p. 403.
Veith, Paul, San Francisco, Calif. Door-hasp. No. 1,342,361; June 1; v. 275; p. 146.
Velchansky, John A., and S. Stefaniak, Hamtramck, Mich. Pick. No. 1,339,638; May 11; v. 274; p. 260.
Veltung, Ernest, New York, N. Y., assignor to Veltung Steel Tire Company. Resilient-tire construction. No. 1,345,812; July 6; v. 276; p. 95.
Veltung Steel Tire Company. (See Veltung, Ernest, assignor.)
Venable, William M., Pittsburgh, Pa., assignor to Blaw-Knox Company. Excavating-bucket. No. 1,344,969; June 29; v. 275; p. 903.
Venable, William M., Pittsburgh, Pa., assignor to Blaw-Knox Company. Excavating-bucket. No. 1,346,999; July 20; v. 276; p. 451.
Venable, William M., Pittsburgh, Pa., assignor to Blaw-Knox Company. Excavating-bucket. No. 1,350,124; Aug. 17; v. 277; p. 513.
Venable, William M., Pittsburgh, Pa., assignor to Blaw-Knox Company. Excavating apparatus. No. 1,360,475; Nov. 30; v. 280; p. 860.
Venable, Wm. H., *et al.* (See Clark, Cornelius S., assignor.)
Venard, Peter I., Denver, Colo. Fountain mucilage-brush. No. 1,353,679; Sept. 21; v. 278; p. 481.
Veneer Products Company, The. (See Atwood, Harry N., assignor.)
Venge, John, Seattle, Wash. Nut-branding machine. No. 1,331,790; Feb. 24; v. 271; p. 578.
Ventiheta Limited. (See Ogle, Percy J., assignor.)
Ventilator Fan Co., The. (See Kohn, Milton M., assignor.)
Venugraph Company, The. (See Arnold, Charles H., assignor.)
Verderber, Joseph, Cleveland, Ohio. Mechanical movement. No. 1,333,951; Mar. 16; v. 272; p. 448.
Verdesca, Arthur, West New York, N. J. Air-hammer attachment. No. 1,344,523; June 22; v. 275; p. 753.
Verdier, Captain P. (See Cutler, William F., assignor.)
Verdier, Jules. (See Weiss, Paul, assignor.)
Vereinigte Glanzstoff-Fabriken, A. G. (See Hesse, Leopold, assignor.)
Verey, Ernest. (See Cutler, C., and Morand, assignors.)
Vergeer, Albert W. P., assignor to The T. F. Moore Company, Inc., New York, N. Y. Display-stand. No. 1,359,937; Nov. 23; v. 280; p. 686.
Verhagen, John J., Cobleskill, N. Y. Silo-hoop. No. 1,351,310; Aug. 31; v. 277; p. 853.
Verhoogen, Gustave, Brussels, Belgium. Manufacture of hard toe-blocks and the like for footwear. No. 1,339,529; May 11; v. 274; p. 239.
Verhunce, Charles E., assignor to R. Williamson & Co., Chicago, Ill. Flexible gas-tubing. No. 1,361,206; Dec. 7; v. 281; p. 45.
Véricel, Antoine, assignor to Les Fleurs de Cristal, Inc., New York, N. Y. Perfume-vial. No. 1,341,525; May 25; v. 274; p. 748.
Verity, George M., Middletown, Ohio. Putting-green cup. No. 1,329,732; Feb. 3; v. 271; p. 72.
Vermont Box Company. (See Shelton, Carl L., assignor.)
Verner, Clarence, Cairo, Ill. Triple roller for watches. No. 1,359,005; Nov. 16; v. 280; p. 459.
Verner, James F., Toronto, Ontario, Canada, assignor, by mesne assignments, to Grand Rapids Trust Company, trustee. Aeroplane control. No. 1,330,664; Feb. 10; v. 271; p. 278.
Verniaud, Claudius, Quincy, Ill. Truss. No. 1,360,476; Nov. 30; v. 280; p. 860.
Vernon, James B., Princeton, W. Va. Automatic starting and equalizing pressure-valve for compound engines. No. 1,352,853; Sept. 14; v. 278; p. 258.
Vernon, Percy V., Coventry, England. Lathe or like machine. No. 1,339,836; May 11; v. 274; p. 298.
Vernon, Percy, V., Keresley, England. Bed for machine-tools. No. 1,339,837; May 11; v. 274; p. 298.
Vernon, Wilfred F., Walton-on-the-Hill, England, assignor to Humphrey Gas Pump Company. Internal-combustion pump and compressor. No. 1,350,125; Aug. 17; v. 277; p. 513.
Ver Planck, William E., Erie, Pa., assignor to General Electric Company. Internal-combustion engine. No. 1,347,768; July 27; v. 276; p. 660.
Verplex Art Company. (See Steedman, Henry P. G., assignor.)
Verran, H. E., Company. (See Clauss, Max O., assignor.)
Verre, John, Philadelphia, Pa. Antibursting and anti-shock device for tanks, pipes, &c. No. 1,348,384; Aug. 3; v. 277; p. 50.
Verre, John M., Chester, Pa. Antibursting attachment for tanks, pipes, etc. No. 1,355,721; Oct. 12; v. 279; p. 303.
Verret, Nicholas J., assignor of one-half to H. F. Ragland, Memphis, Tenn. Vehicle-wheel. No. 1,332,781; Mar. 2; v. 272; p. 116.
Verret, Octave, Jr., Raceland, La. Jar-cap wrench. No. 1,355,020; Oct. 5; v. 279; p. 113.
Versteeg, John, St. Johns, Oreg. Agricultural implement. No. 1,348,255; Aug. 3; v. 277; p. 25.
Vertunni, Joseph, and O. S. Eller, Long Beach, Calif. Shoe-button remover. No. 1,341,203; May 25; v. 274; p. 686.
Vervoort, Charles C. (See Heyman, A., and Vervoort.)
Vervoort, Jules F., assignor of one-half to L. D. McJilton, Los Angeles, Calif. Gasket-sealing composition. No. 1,341,952; June 1; v. 275; p. 67.
Vervoort, Lambert H., New York, N. Y. Bearing. No. 1,344,524; June 22; v. 275; p. 753.
Vescovi, Pietro P., Ottawa, Kans. Portable fire-escape. No. 1,352,230; Sept. 7; v. 278; p. 99.
Vesely, Bedrich, and W. Fajman, New York, N. Y. Shank-button machine. No. 1,353,680; Sept. 21; v. 278; p. 480.
Veselý, Karel, Tynice, near Sazavou, Czechoslovakia. Sewing-machine. No. 1,339,243; May 4; v. 274; p. 109.
Vessey, Frank D., Spokane, Wash. Wheelbarrow. No. 1,327,578; Jan. 6; v. 270; p. 130.
Vessey, Ralph B., assignor to Champion Ignition Company, Flint, Mich. Spark-plug. No. 1,355,628; Oct. 12; v. 279; p. 285.
Vest, Robert A., Pontotoc, Tex. Seed-selecting mechanism. No. 1,343,802; June 15; v. 275; p. 546.
Vesta Accumulator Company. (See Angell, Chester M., assignor.)
Vestine, Andrew O., Watertown, assignor to L. C. Chase & Company, Boston, Mass. Separable fastener. No. 1,347,604; July 27; v. 276; p. 627.
Veterinary Specialty Company. (See Vose, Samuel F., assignor.)
Vette, Charles A., Chicago, Ill. Hanger. No. 1,363,935; Dec. 28; v. 281; p. 719.
Vetter, Albert, assignor to The Willys-Overland Company, Toledo, Ohio. Means for storing automobile-curtains. No. 1,358,041; Nov. 9; v. 280; p. 222.
Vetter, Joseph, Toledo, Ohio. Bow for automobile-tops. No. 1,340,307; May 18; v. 274; p. 443.
Vetter, Joseph, Toledo, Ohio. Automobile-top. No. 1,341,687; June 1; v. 275; p. 14.
Vetter, Joseph, Toledo, Ohio. Automobile-top. No. 1,347,881; July 27; v. 276; p. 682.
Vevera, Henry L. (See Blum, Adolph, assignor.)
Vezey, Charles D., Berkeley, and C. Mariner, Oakland, Calif. Kiln. No. 1,362,063; Dec. 14; v. 281; p. 263.
Vial, Frederick K., assignor to Griffin Wheel Company, Chicago, Ill. Process and apparatus for cooling car-wheels. No. 1,328,278; Jan. 27; v. 270; p. 577.
Viard, Eugène L., Bar-sur-Seine, and F. A. Bouillit, Levallois-Perret, France. Elastic suspension of cycles. No. 1,335,765; Apr. 6; v. 273; p. 12.
Vibration Specialty Company. (See Akimoff, Nicholas W., assignor.)
Vibro-Dental Products. (See Jones, William L., assignor.)
Vicenzi, Cesare, Milwaukee, Wis. Automobile-signal. No. 1,331,171; Feb. 17; v. 271; p. 442.
Vick, Henry, Chicago, Ill. Draft-damper mechanism for furnaces. No. 1,341,868; June 1; v. 275; p. 50.
Vick, Martin L., Sheyenne, N. D. Rural mail-box support or holder. No. 1,340,426; May 18; v. 274; p. 467.
Vick, Odin, assignor to The Rodgers Company, Tacoma, Wash. Means for sealing containers *in vacuo*. No. 1,362,203; Dec. 14; v. 281; p. 291.
Vickers Limited. (See Barker, F. H., and Buckham, assignors.)
Vickers Limited. (See Buckham, G. T., and Dawson, assignors.)
Vickers Limited. (See Dawson and Buckham, assignors.)

Digitized by Google

Vickers Limited. (See Dawson, A. T., and Horne, assignors.)
Vickers Limited. (See Ellis, G. E., and North, assignors.)
Vickers Limited. (See Elia, Giovanni E., assignor.)
Vickers Limited. (See Francis, Charles E., assignor.)
Vickers Limited. (See Ingoldby, Maurice K., assignor.)
Vickers Limited. (See McKechnie, J., and Clear, assignors.)
Vickers Limited. (See McKechnie, James, assignor.)
Vickers Limited. (See North, Thomas K., assignor.)
Vickers Pontoons Limited. (See Thurston, T. G. O., and Illey, assignors.)
Vickers, William H., and C. E. Hancock, Liberal, Kans. Automatic weighing-machine. No. 1,338,538; Apr. 27; v. 273; p. 740.
Victor Adding Machine Company, The. (See Johantgen, Oliver D., assignor.)
Victor Apparatus Company. (See Clifford, Fred W., assignor.)
Victor Electric Corporation. (See Wantz, Julius B., assignor.)
Victor Manufacturing Company. (See Saffold, James W., assignor.)
Victor Nailing Machine Company. (See Stutzer, Edward, assignor.)
Victor Talking Machine Company. (See Brown, H. C. and John, assignors.)
Victor Talking Machine Company. (See Burton, Isaac F., assignor.)
Victor Talking Machine Company. (See Diehl, Albert C., assignor.)
Victor Typewriter Company. (See Hagerstrom, John A., assignor.)
Victor Talking Machine Company. (See Johnson, Eldridge R., assignor.)
Victor Talking Machine Company. (See Squibb, Lloyd Y., assignor.)
Victor Tool Company. (See Koontz, Victor, assignor.)
Victor Tool Company, The. (See Koontz, Victor R., assignor.)
Victor Traction Gear Co. (See Denny, William E., assignor.)
Victor Typewriter Company. (See Hagerstrom, John A., assignor.)
Victor X Ray Corporation. (See Fennelli, Robert J., assignor.)
Victoria, Henry J., Hull, Iowa. Building-stake. No. 1,336,004; Apr. 6; v. 273; p. 57.
Victory Ring Compressor Company. (See Claire, Louis V., assignor.)
Vidal, Charles H. (See Pugh, H. W., and Vidal.)
Vidaver, Maxwell, New York, N. Y. Apparatus for manufacturing toilet-pins. No. 1,353,294; Sept. 21; v. 278; p. 403.
Vidaver, Maxwell, New York, N. Y. Machine for pointing pins. No. 1,362,763; Dec. 21; v. 281; p. 452.
Vidler, John F., Portland, Oreg. Radiator. No. 1,356,478; Oct. 19; v. 279; p. 491.
Viebrock, Carl H., and H. W., assignors of one-tenth to H. Planetz, Douglas, Wash. Nut-lock. No. 1,346,730; July 13; v. 276; p. 338.
Viebrock, Henry W. (See Viebrock, Carl H. and H. W.)
Viehweger, Paul, Milwaukee, Wis. Artificial bait. No. 1,348,670; Aug. 3; v. 277; p. 105.
Viele, Byron E., Grinnell, Iowa. Turntable. No. 1,355,722; Oct. 12; v. 279; p. 303.
Viele, Platt B., Rochester, N. Y. Leak-stopper for vessels. No. 1,334,194; Mar. 16; v. 272; p. 493.
Viele, Sylvester M., Altoona, Pa. Method and mechanism for measuring fluid depths. No. 1,352,565; Sept. 14; v. 278; p. 200.
Vieira, John J., Pittsburg, Calif. Folding backrest. No. 1,363,697; Dec. 28; v. 281; p. 673.
Vierling, Frank J., F. R. Bartholomew, and M. H. Smith, assignors to Sterling Specialties Manufacturing Company, Minneapolis, Minn. Egg-boiling rack. No. 1,346,283; July 13; v. 276; p. 251.
Vierling, Joseph, assignor to Pioneer Brush Washing Machine Company, Pittsburgh, Pa. Washing-machine. No. 1,360,960; Nov. 23; v. 280; p. 710.
Viers, Burr D., Red Lodge, Mont. Electrically-operated egg-beater. No. 1,359,208; Nov. 16; v. 280; p. 496.
Viertel, Eduard, Berlin-Treptow, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Plant for manufacturing lampblack. No. 1,338,268; Apr. 27; v. 273; p. 690.
Viertel, Jacob G. (See Schindler, B., and Viertel.)
Viertels, Ephraim, New York, N. Y. Tip-fastener for shoe-laces. No. 1,327,892; Jan. 13; v. 270; p. 250.
Viets, Floyd H., assignor to Research Corporation, New York, N. Y. Switch. No. 1,357,750; Nov. 2; v. 280; p. 104.
Viezzi, Luigi, West New York, N. J. Window-seat. No. 1,353,681; Sept. 21; v. 278; p. 481.
Viezzi, Luigi, West New York, assignor of one-half to F. L. Robitsch, Union Hill, N. J. Scriber. No. 1,353,682; Sept. 21; v. 278; p. 481.
Vigilant Automatic Fire Alarm Company. (See Moloney, Matthew, assignor.)
Vik, Torval E., Shelton, Conn. Wire-straightener. No. 1,335,695, Mar. 30; v. 272; p. 869.
Vi[illegible] Pump Company. (See Pedersen, M. P., and Peter[illegible], assignors.)
Vilander, Anna L., St. Paul, Minn. Combined clasp and bodkin. No. 1,356,800; Oct. 26; v. 279; p. 601.
Villa, Francois, Montreal, Quebec, Canada. Animal-trap. No. 1,331,132; Feb. 17; v. 271; p. 435.
Villain, Antonia, *et al.* (See Motta, Domingo, assignor.)
Villani, Angelo, Wilmington, Del. Sewing-needle. No. 1,345,422; July 6; v. 276; p. 19.
Villapol, José, Brooklyn, N. Y. Bedstead. No. 1,360,832; Nov. 30; v. 280; p. 930.
Villarboito, Felice. (See Gallo, Galileo, and Villarboito.)
Villaret, Gustave E., New York, N. Y. Electric-light fixture. No. 1,361,786; Dec. 7; v. 281; p. 161.
Villas-Bôas, José M. G., Rio de Janeiro, Brazil. Drawing-roller for spinning and the like machines. No. 1,335,208; Mar. 30; v. 272; p. 791.
Villiers, Edward C., Hendersyde, Ascot, England. Means for adjusting and indicating the travel of machines or instruments operated by the core or armature of an electromagnet. No. 1,361,935; Dec. 14; v. 281; p. 238.
Villiers, Edward C., Ascot, England. Traveler for ships' cleaning implements. No. 1,362,518; Dec. 14; v. 281; p. 352.
Villinger, William E., Williamsport, Pa. Automatic stay-arm. No. 1,335,626; Mar. 30; v. 272; p. 869.
Vilter Manufacturing Company, The. (See Keller, John G., assignor.)
Vince, Joseph, Brooklyn, N. Y. Flash-light. No. 1,347,423; July 20; v. 276; p. 534.
Vincent, Antonio, Oakland, Calif. Trip-hammer. No. 1,342,782; June 8; v. 275; p. 282.
Vincent, Edith L., administratrix. (See Vincent, Joseph E.)
Vincent, Edward H., Detroit, Mich. Locking steering-wheel. No. 1,335,865; Apr. 6; v. 273; p. 30.
Vincent, Ernest H., Oakland, Calif., assignor of one-half to Herman Christensen, Sunnyvale, Calif. Steam-boiler. No. 1,351,500; Aug. 31; v. 277; p. 890.
Vincent, Harry S., Ridgewood, N. J. Throttle-valve. No. 1,352,772; Sept. 14; v. 278; p. 241.
Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,332,964; Mar. 9; v. 272; p. 203.
Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,335,143; Mar. 30; v. 272; p. 780.
Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Machining hydrocarbon-motors. No. 1,336,800; Apr. 13; v. 273; p. 268.
Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Clutch. No. 1,339,047; May 4; v. 274; p. 74.
Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,339,530; May 11; v. 274; p. 239.
Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,344,279; June 22; v. 275; p. 704.
Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Pump for motor-vehicles. No. 1,345,902; July 6; v. 276; p. 113.
Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,345,903; July 6; v. 276; p. 114.
Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,352,486; Sept. 14; v. 728; p. 184.
Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,352,487; Sept. 14; v. 278; p. 184.
Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,355,068; Oct. 5; v. 279; p. 123.
Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,358,482; Nov. 9; v. 280; p. 310.
Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Welding. No. 1,361,936; Dec. 14; v. 281; p. 238.
Vincent, Joseph E., deceased, assignor of one-half to M. Movsessian, Cambridge, Mass.; E. L. Vincent, administratrix. Washer-counter. No. 1,350,755; Aug. 24; v. 277; p. 683.
Vincent, Simon, Washington, D. C. Woodworking-machine. No. 1,361,295; Dec. 7; v. 281; p. 62.
Vincent, William H., Park Side, South Australia, Australia. Cook-stove attachment for gas-jets. No. 1,345,295; June 29; v. 275; p. 967.
Vinograd, Eliezer, and M. Groten, New York, N. Y. Car-coupling. No. 1,339,487; May 11; v. 274; p. 231.
Vint, Wyndam T. (See Alexander, H., Vint, and Imbery.)
Vinton, Frederick W., Weehawken, N. J., assignor to The V. & N. Lantern Co., Inc. Lantern. No. 1,336,112; Apr. 6; v. 273; p. 77.
Violet, Marcel A., Levallois-Perret, France. Multicylinder two-stroke motor. No. 1,346,069; July 6; v. 276; p. 147.
Viollet, Emile, Paris, France. Lamp. No. 1,348,523; Aug. 3; v. 277; p. 76.
Viollet, Eugène, Limoges, France. Paper-fastener. No. 1,355,629; Oct. 12; v. 279; p. 285.
Viquesney, Ernest M., Americus, Ga. Vault-monument. No. 1,331,172; Feb. 17; v. 271; p. 442.

Digitized by Google

Alphabetical list of patentees—Continued.

Virag, John, Dayton, Ohio. Signal and gate-operating means for railway-crossings. No. 1,344,525; June 22; v. 275; p. 753.
Virga, John B., assignor of one-half to F. De Bella, Washington, D. C. Tire-protector. No. 1,357,132; Oct. 26; v. 279; p. 667.
Virgin, William H. (See Hamaker, R. F., and Virgin.)
Virginia-Carolina Chemical Company. (See Hoffmann, Philip C., assignor.)
Virkus, Frederick A., La Grange, Ill., assignor to Wood, Nathan & Virkus Company, New York, N. Y. Machine for embossing without dies. No. 1,328,407; Jan. 20; v. 270; p. 384.
Virneburg, George, New York, N. Y. Combination wash-rag and soap-container. No. 1,351,311; Aug. 31; v. 277; p. 853.
Virtue, Dennis E., Minneapolis, Minn. Ensilage-cutter. No. 1,363,445; Dec. 28; v. 281; p. 624.
Virzi, Giovanni, assignor of one-half to J. Virzi, New York, N. Y. Free sounding-board. No. 1,349,700; Aug. 17; v. 277; p. 432.
Virzi, Joseph. (See Virzi, Giovanni, assignor.)
Virzi, Joseph, New York, N. Y. Sounding-board for musical instruments. No. 1,351,709; Aug. 31; v. 277; p. 931.
Vis, George A., assignor, by mesne assignments, to Brown-McLaren Manufacturing Co., Detroit, Mich. Valve. No. 1,344,364; June 22; v. 275; p. 721.
Vis, Gerhard N., Paris, France. Recovering ammonia by means of sodium bisulfate. No. 1,332,419; Mar. 2; v. 272; p. 47.
Viscoloid Company, The. (See Person, Earl R., assignor.)
Visible Measure Gasoline Dispenser Company of America. (See Brady, James H., assignor.)
Visible Spark Plug Co. (See Fitz, Charles L., assignor.)
Vissata, Anthony V. (See Hake, R. C., and Vissata.)
Vissering, Harry, & Company. (See Anderson, Harry T., assignor.)
Vissering, Harry, & Company. (See Simonson, Sigvard, assignor.)
Vital, Samuel L. (See Droelle, Otto, assignor.)
Vitaslide Company. (See Gilmore, Earl L., assignor.)
Vivarttas, William O., Weehawken, N. J. Compressed-air-pipe coupling. No. 1,345,520; July 6; v. 276; p. 38.
Vivian, Avando W. H., Westminster, London, England. Liquid hydrocarbon burner of the injector type. No. 1,332,782; Mar. 2; v. 272; p. 116.
Vlanch, Samuel, Sioux City, Iowa. Firearm. No. 1,348,910; Aug. 10; v. 277; p. 203.
Vodoz, Frederick W., Chicago, Ill., assignor to Johnson Automobile Lock Company, Adjustable steering-wheel and lock. No. 1,340,638; May 18; v. 274; p. 507.
Voelcker, Henry. (See Johnson, Frank P., assignor.)
Voelker, William J., Waterloo, Iowa. Conveyer. No. 1,348,671; Aug. 3; v. 277; p. 105.
Vogel, Edward J., San Francisco, Calif. Golf-ball practice substitute. No. 1,363,446; Dec. 28; v. 281; p. 624.
Vogel, Eugene W., Oak Park, assignor to Chicago Railway Signal and Supply Company, Carpentersville, Ill. Annunciator. No. 1,337,299; Apr. 20; v. 273; p. 437.
Vogel, Felix A., assignor to General Briquetting Company, New York, N. Y. Briqueting ores. No. 1,334,331; Mar. 23; v. 272; p. 566.
Vogel, Henry S., Columbia, Mo. Wire-imbedding device. No. 1,359,639; Nov. 23; v. 280; p. 627.
Vogel, Otto H., Taber, Alberta, Canada. Combined salt and pepper shaker. No. 1,349,795; Aug. 17; v. 277; p. 450.
Vogel, Paul R., Chicago, Ill. Filing-cabinet. No. 1,332,087; Feb. 24; v. 271; p. 634.
Vogelzang, Frank, Rock Valley, Iowa. Fuel-pipe lock device. No. 1,346,774; July 13; v. 276; p. 348.
Vogelzang, Frank, Rock Valley, Iowa. Advertising device. No. 1,346,775; July 13; v. 276; p. 348.
Vogelzang, Frank, Rock Valley, Iowa. Flying-machine. No. 1,353,501; Sept. 21; v. 278; p. 444.
Vögler, Albert, Dortmund, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Producing steel. No. 1,342,701; June 8; v. 275; p. 265.
Voglesong, Clyde C., Oakland, Calif. Coin separator and counter. No. 1,356,947; Oct. 26; v. 279; p. 630.
Vogt, Axel S., Philadelphia, Pa. Weighing-scale. No. 1,347,605; July 27; v. 276; p. 627.
Vogt, Ernst W., Silverton, Ohio. Downspout cut-off. No. 1,328,348; Jan. 20; v. 270; p. 373.
Vogt, Joseph, Richmond, Minn. Self-sharpening adjustable packer-head plate for tile-machines. No. 1,328,699; Jan. 20; v. 270; p. 439.
Vogt, Vincent N., Dansville, N. Y. Shoe-shining machine. No. 1,330,665; Feb. 10; v. 271; p. 278.
Vogts, Walter D., Waunakee, Wis. Automobile pump attachment. No. 1,327,798; Jan. 13; v. 270; p. 232.
Vohralik, Frank J., Oak Park, Ill. Combination folding furniture. No. 1,331,599; Feb. 24; v. 271; p. 542.
Voice Recorder Company. (See Emerson, Victor H., assignor.)
Voight, Frederick E., Grand Haven, Mich. Device for gaging tapering bodies. No. 1,339,639; May 11; v. 274; p. 261.
Voight, George F., San Francisco, Calif. Horn. No. 1,351,223; Aug. 31; v. 277; p. 835.
Voight, Henry G., New Haven, Conn. Door-holder. No. 1,338,052; Apr. 27; v. 273; p. 649.
Voight, Henry G., New Haven, Conn. Lock mechanism. No. 1,338,053; Apr. 27; v. 273; p. 649.
Voight, Henry G., New Haven, Conn. Tire-lock. No. 1,358,184; Nov. 9; v. 280; p. 250.
Voight, Henry G., New Haven, Conn. Spare-tire carrier. No. 1,358,801; Nov. 16; v. 280; p. 419.
Voight, Henry G., New Haven, Conn. Tire-carrier. No. 1,362,654; Dec. 21; v. 281; p. 431.
Voight, Henry G., New Britain, Conn., assignor to Sargent & Company, New Haven, Conn. Padlock. No. 1,333,355; Mar. 9; v. 272; p. 275.
Voight, Henry G., New Britain, assignor to Sargent & Company, New Haven, Conn. Panic-bolt. No. 1,345,041; June 29; v. 275; p. 917.
Voigt, Arthur H. (See White, Frank A., assignor.)
Voigt, Johnston C. (See Scott, J. A., and Voigt.)
Voina-Hansen, Wladimir, Newark, N. J. Filler-cover. No. 1,354,787; Oct. 5; v. 279; p. 68.
Voith, George F., Philadelphia, Pa. Repeating device for talking-machines. No. 1,349,240; Aug. 10; v. 277; p. 268.
Voith, J. M., Company. (See Storrer, Hermann F., assignor.)
Voland, Emil L. (See Voland, George G. and E. L.)
Voland, George G. and E. L., New Rochelle, N. Y. Scale. No. 1,332,783; Mar. 2; v. 272; p. 116.
Voland, George G. and E. L., New Rochelle, N. Y. Post for scales. No. 1,350,189; Aug. 17; v. 277; p. 526.
Volckhausen, Julius, Weehawken, N. J., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Valve. No. 1,341,828; June 1; v. 275; p. 43.
Vold, Ole G., Forest City, Iowa. Seed-corn cabinet and drier. No. 1,346,070; July 6; v. 276; p. 147.
Vold, Ole G., Forest City, Iowa. Speed-control device. No. 1,346,071; July 6; v. 276; p. 147.
Volk, Edward J., Cleveland, Ohio. Gas-burner. No. 1,341,089; May 25; v. 274; p. 664.
Volk, Francis M., San Francisco, Calif. Car-seal. No. 1,354,634; Oct. 5; v. 279; p. 38.
Volk, Frank. (See Robertson, A. C., and Volk.)
Volk, George D., Corry, Pa. Universal joint. No. 1,358,267; Nov. 9; v. 280; p. 266.
Volk, Magnus, Brighton, England. Apparatus for transferring bedsteads and occupants from place to place. No. 1,337,861; Apr. 20; v. 273; p. 543.
Voll, Gustav, deceased; M. Voll, administratrix, Seattle, Wash. Safety device for ladders. No. 1,352,566; Sept. 14; v. 278; p. 200.
Voll, Marie, administratrix. (See Voll, Gustav.)
Vollman, Peter J., Chicago, Ill. Thermostatic valve. No. 1,363,447; Dec. 28; v. 281; p. 624.
Vollmer, Walter E., Sandusky, Ohio. Dust-cap for valve-stems. No. 1,338,054; Apr. 27; v. 273; p. 650.
Vollweiler, Ernest H. (See Kamm, O., and Vollweiler.)
Volotone Company. (See Newcomer, Martin, assignor.)
Volwiler, Earnest H. (See Kamm, O., Adams, and Volwiler.)
Volwiler, Ernest H. (See Adams, R., and Volwiler.)
Volz, Alexander F., Jr., St. Louis, Mo. Method and apparatus for forming monolithic structures. No. 1,337,493; Apr. 20; v. 273; p. 473.
Volz, Frederick W., Washington, D. C. Spring-leaf spreader. No. 1,338,539; Apr. 27; v. 273; p. 740.
Volz, Otto, Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Manufacturing solid toilet and household soaps in cake or powder form. No. 1,342,783; June 8; v. 275; p. 282.
Vom Eigen, Benno, Newark, N. J., assignor to August Goertz & Co. Bag-frame and hinge connection therefor. No. 1,339,799; May 11; v. 274; p. 291.
Vomela, Anton, St. Paul, Minn. Heel-fastening means. No. 1,354,356; Sept. 28; v. 278; p. 660.
Vonada, John H., Coburn, Pa. Valve-lifter. No. 1,330,924; Feb. 17; v. 271; p. 396.
Von Beaulieu, Albert, Owego, N. Y. Freel-wheel device. No. 1,362,591; Dec. 21; v. 281; p. 418.
Von der Lippe, Ernest, Chicago, Ill. Return tubular boiler. No. 1,360,980; Nov. 30; v. 280; p. 938.
Von der Weid, Charles. (See Pattay, M., and Jaquemot, assignors.)
Vondrée, Frank, Ilkley, England. Combination sewing-table and needlework-bag. No. 1,353,866; Sept. 28; v. 278; p. 561.
Von Eckermann, Claes W. H. Ljusne, Sweden. Welding chain-link. No. 1,357,156; Oct. 26; v. 279; p. 671.
Von Engeln, Harry F., Ludell, Kans. Wheat-stacker. No. 1,336,005; Apr. 6; v. 273; p. 57.
Von Groeling, Albrecht F. G. C. P. J., assignor to Atlas Process Company, Inc., New York, N. Y. Fractional distillation of crude petroleum and other hydrocarbons. No. 1,327,184; Jan. 6; v. 270; p. 57.
Von Henke, Edmond J., Milwaukee, Wis., assignor to Thomson Electric Welding Company, Lynn, Mass. Weld-testing device for chains. No. 1,339,610; May 11; v. 274; p. 255.
Von Henke, Edmund J., New York, N. Y. Apparatus for and method of welding. No. 1,351,815; Sept. 7; v. 278; p. 20.
Von Heyst, Floris A. (See Schoute, C., von Heyst, and Meyer.)

Digitized by Google

Von Kando, Kalman, Vado Ligure, Italy, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Suspension of liquid-containers on railway-vehicles. No. 1,343,241; June 15; v. 275; p. 436.

Vonnegut, Anton. (See Gathman, M. B., and Eaglesfield, assignors.)

Von Osten, Frederick, assignor of one-half to C. Schueler, East Orange, N. J. Textile-disintegrating machine. No. 1,355,518; Oct. 12; v. 279; p. 264.

Von Ostrejko, Raphael, Crakow, Austria, assignor, by mesne assignments, to The Chemical Foundation, Inc. Producing decolorizing-charcoal. No. 1,362,064; Dec. 14; v. 281; p. 264.

Von Porat, Karl H. V., Stocksund, assignor to Motala Verkstads Nya Aktiebolag, Motala Verkstad, Sweden. Feeding device for pulverous fuel in furnaces for locomotives and the like. No. 1,337,738; Apr. 20; v. 273; p. 520.

Von Porat, Karl H. V., Stockholm, Sweden, assignor to Motala Verkstads Nya Aktiebolag, a Corporation of Motala Verkstad, Sweden. Feeding device for pulverous fuel in furnaces for locomotives and the like. No. 1,357,663; Nov. 2; v. 280; p. 87.

Von Post, Adolf, London, England. Electrical coupling. No. 1,329,448; Feb. 3; v. 271; p. 19.

Von Recklinghausen, Max, assignor to Air Reduction Company, New York, N. Y. Means for supporting gas-holding cylinders. No. 1,345,042; June 29; v. 275; p. 917.

Vons, John, Cleveland, Ohio. Vending-machine. No. 1,351,589; Aug. 31; v. 277; p. 909.

Vons, John, Cleveland, Ohio. Vending-machine. No. 1,351,590; Aug. 31; v. 277; p. 909.

Von Schlegell, Frederick, Evanston, and W. B. Lewis, Chicago, Ill. Electric furnace. No. 1,352,040; Sept. 7; v. 278; p. 63.

Von Schlegell, Frederick, Evanston, Ill. Electric-arc furnace. No. 1,352,541; Sept. 14; v. 278; p. 194.

Von Wintzingerode, Eberhard. (See Weaver, A. T., Laufer, and von Wintzingerode.)

Von Wurstemberger, Franz, assignor to Aktiengesellschaft der Maschinenfabriken Escher Wyss & Cie., Zurich, Switzerland. Prevention of selective corrosion of tubes and machinery parts of copper or copper-containing alloys. No. 1,335,209; Mar. 30; v. 272; p. 791.

Von Wurstemberger, Franz, assignor to Aktiengesellschaft der Maschinenfabriken Escher Wyss & Cie., Zurich, Switzerland. Method and device for the prevention of selective corrosion of tubes and machinery parts of copper or copper-containing alloys. No. 1,335,210; Mar. 30; v. 272; p. 791.

Von Zweigbergk, Thorsten, Lancaster, England. Gear-changing device. No. 1,357,484; Nov. 2; v. 280; p. 53.

Voorhees, John J., Jr. (See Dickey, Charles T., assignor.)

Voorhees, John J., Jr., Jersey City, N. J., assignor, by mesne assignments, to U. S. Compression Inner Tube Company, Tulsa, Okla. Inner tube for pneumatic tires. No. 1,336,173; Apr. 6; v. 273; p. 89.

Voorhees, Sheldon, Syracuse, N. Y. Abdominal support. No. 1,327,930; Jan. 13; v. 270; p. 257.

Voorheis, Joseph T., Philadelphia, Pa. Air-regulating device for oil-burners. No. 1,329,279; Jan. 27; v. 270; p. 577.

Voorhies, Charles L. (See Armandez, Yves and J. G., and Voorhies.)

Voorhies, Felix E., Dallas, Tex. Cotton-seed-linting machine. No. 1,353,295; Sept. 21; v. 278; p. 403.

Vornceh, Frank B., Tillamook, Oreg. Flying-machine. No. 1,327,125; Jan. 6; v. 270; p. 46.

Vorbroker, Edmund, Cincinnati, Ohio. Window-ventilator. No. 1,360,698; Nov. 30; v. 280; p. 904.

Vorhauer, George F., New Brighton, Pa., assignor to W. D. Craft, Newark, N. J. Flexible file. No. 1,335,866; Apr. 6; v. 273; p. 30.

Vosburgh, Burton V., Charlotte, Mich. Direction-indicator. No. 1,363,936; Dec. 28; v. 281; p. 719.

Vosburgh, John R., Johnstown, N. Y. Hand-grip. No. 1,356,572; Oct. 26; v. 279; p. 557.

Vose, Samuel F., Shawnee, Okla., assignor to Veterinary Specialty Company, Holland, Mich. Dental halter and mouth-speculum. No. 1,331,542; Feb. 24; v. 271; p. 531.

Voshardt, Herman F., assignor to Friedley-Voshardt Co., Chicago, Ill. Knockdown can. No. 1,331,543; Feb. 24; v. 271; p. 531.

Vosper, William W., Toledo, Ohio. Power means for work threading or cutting units. No. 1,344,280; June 22; v. 275; p. 704.

Voss, Johann H. H., Mount Vernon, N. Y. Automatic ring-plate valve. No. 1,343,534; June 15; v. 275; p. 493.

Voss, Theodore A., Phoenicia, N. Y. Broom. No. 1,341,526; May 25; v. 274; p. 748.

Voss, William H., Davenport, Iowa. Wringer. No. 1,344,835; June 29; v. 275; p. 879.

Voss, Willis M., Montgomery, Ala. Stepladder. No. 1,359,297; Nov. 16; v. 280; p. 513.

Voulgre, André D. J. A., Bayonne, France. Television and telephotographic apparatus. No. 1,329,688; Feb. 3; v. 271; p. 64.

Vredenburgh, Raymond T., Brookline, Mass. Aerial observer's windshield. No. 1,352,106; Sept. 7; v. 278; p. 76.

Vreeland, Frederick K., Montclair, N. J. Electrical oscillator. No. 1,340,193; May 18; v. 274; p. 423.

Vrooman, Alonzo J. (See Seaman, James, assignor.)

Vrooman, James H. E., *et al.* (See Mowatt, Alexander, assignor.)

Vuia, Trajan, Garches, France. Propelling, tractive, and supporting apparatus. No. 1,347,424; July 20; v. 276; p. 535.

Vuilleumier, Rudolph, New Rochelle, N. Y., assignor to Safety Car Heating & Lighting Company. High-pressure valve. No. 1,360,833; Nov. 30; v. 280; p. 930.

Vuilleumier, Rudolph, assignor to The Safety Car Heating & Lighting Company, New Rochelle, N. Y. Self-adjusting fluid-tight packing. No. 1,363,878; Dec. 28; v. 281; p. 611.

Vulcan Brass Mfg. Co., The. (See Geurink, Harry J., assignor.)

Vulcan Detinning Company, The. (See Carrier, Courtland F., Jr., assignor.)

Vulcan Soot Cleaner Company. (See Dornbrook, Fred L., assignor.)

Vuono, Giuseppi P., Brooklyn, N. Y. Silk-finishing machine. No. 1,347,066; July 20; v. 276; p. 464.

Vyne, Garrett O., *et al.* (See Vyne, Ray N., assignor.)

Vyne, Ray N., assignor of one-third to R. N. Vyne, one-third to G. O. Vyne, and one-third to H. J. Smith, Prescott, Ariz. Equipment for moving-picture machines. No. 1,341,527; May 25; v. 274; p. 748.

Waage, Sivert P., and R. Warren, Minneapolis, Minn. Thermally-actuated drain-valve. No. 1,338,469; Apr. 27; v. 273; p. 728.

Wabash Sanitary Company. (See Snideman, Clora J., assignor.)

Wabash Screen Door Co. (See Otto, Martin H., assignor.)

Wachenberg, Lewis, New York, N. Y. Filter. No. 1,337,170; Apr. 13; v. 273; p. 338.

Wachenheimer Bros. (See Hultman, C. G., and Wachenheimer, assignors.)

Wachenheimer Bros. (See Wachenheimer, Harry, assignor.)

Wachenheimer, Harry, assignor to Wachenheimer Bros., Providence, R. I. Locket. No. 1,342,035; June 1; v. 275; p. 83.

Wachenheimer, Harry, assignor to Wachenheimer Bros., Providence, R. I. Bracelet. No. 1,344,365; June 22; v. 275; p. 721.

Wachenheimer, Harry, assignor to Wachenheimer Bros., Providence, R. I. Bar-pin. No. 1,356,027; Oct. 19; v. 279; p. 403.

Wachniak, John, New York, N. Y. Automobile sled. No. 1,342,410; June 1; v. 275; p. 155.

Wachsman, Adolph, Averne, N. Y. Stop mechanism for knitting-machines. No. 1,358,483; Nov. 9; v. 280; p. 311.

Wachtel, Charles, Jamaica, assignor to Maurice Hartman, New York, N. Y. Portable electric light. No. 1,360,477; Nov. 30; v. 280; p. 860.

Wachtel, William E. (See Chapman, Lemuel W., assignor.)

Wachtel, William W., assignor to Loose-Wiles Biscuit Company, Kansas City, Mo. Confection-box. No. 1,336,874; Apr. 13; v. 273; p. 282.

Wachter, John A., Chicago, Ill. Automatic seal-closure for boxes. No. 1,350,397; Aug. 24; v. 277; p. 612.

Wachter, Louis E. F., New York, N. Y. Watch. No. 1,333,194; Mar. 9; v. 272; p. 245.

Wacker, George W., Rutherford, N. J., assignor to National Carbon Company, Inc., New York, N. Y. Electric engine-starter. No. 1,330,101; Feb. 10; v. 271; p. 173.

Wacker, George W., Rutherford, N. J., assignor to National Carbon Company, Inc., New York, N. Y. Portable electric light. No. 1,363,698; Dec. 28; v. 281; p. 673.

Wackeureuter, Andreas, *et al.* (See Remer, Peter, assignor.)

Waddell, Joseph A., Jr., assignor to Spencer Heater Company, Scranton, Pa. Steam and hot-water furnace. No. 1,356,028; Oct. 19; v. 279; p. 403.

Waddell, Peter H., Troon, Scotland. Apparatus for washing photographic prints or the like. No. 1,332,965; Mar. 9; v. 272; p. 203.

Waddell, W. Arthur. (See Culver, Albert V., assignor.)

Waddington, Edward C., Woodstown, N. J. Combined cutter and scraper. No. 1,347,237; July 20; v. 276; p. 497.

Wade, Charles N., Paterson, N. J. Transfer printing and delivering machine. No. 1,359,938; Nov. 23; v. 280; p. 686.

Wade, Charles T., Hackettstown, N. J. Valve construction. No. 1,357,600; Nov. 2; v. 280; p. 75.

Wade, Edwin T., assignor of one-third to Albert C. Jones, Jackson, Miss. Rail tie and fastener. No. 1,348,460; Aug 3; v. 277; p. 64.

Wade, Frank M., Wauwatosa, assignor to Milwaukee Paper Box Company, Milwaukee, Wis. Paper box. No. 1,328,935; Jan. 27; v. 270; p. 513.

Wade, Henry C., Bayonne, N. J., assignor, by mesne assignments, to Wadol Corporation. Apparatus for decomposing hydrocarbon-oils and water. No. 1,336,450; Apr. 13; v. 273; p. 200.

Wade, James T., Brady, Tex. Rail-fastener. No. 1,337,862; Apr. 20; v. 273; p. 544.

Digitized by Google

Alphabctical list of patentees—Continued.

Wade, John, St. Paul, and S. J. Markin and H. A. Du Prey, Minneapolis, Minn.; said Markin assignor to said Wade and said Du Prey. Door opening and closing device. No. 1,347,193; July 20; v. 276; p. 488.
Wade, Percy, assignor to The Weldit Company, Washington, D. C. Oil-burner system and torch therefor. No. 1,353,683; Sept. 21; v. 278; p. 482.
Wadham, Frank L., Detroit, Mich. Tire. No. 1,327,794; Jan. 13; v. 270; p. 232.
Wadley, Calvin P., Buffalo, N. Y. Water-heater. No. 1,338,055; Apr. 27; v. 273; p. 650.
Wadman, J. B. (See Foster, Donovan, assignor.)
Wadol Corporation. (See Wade, Henry C., assignor.)
Wadsworth, Chester J., Painesville, Ohio. Sock-drying form. No. 1,332,368; Mar. 2; v. 272; p. 38.
Wadsworth, Frank L. O., Pittsburgh, Pa. Rotary boring-drill. No. 1,338,601; Apr. 27; v. 273; p. 752.
Wadsworth, Frank L. O., Pittsburgh, Pa. Method and apparatus for the manufacture of pressed-sheet-glass products. No. 1,346,571; July 13; v. 276; p. 307.
Wadsworth, Frank L. O., Pittsburgh, Pa., assignor to Ball Brothers Glass Manufacturing Company, Muncie, Ind. Glass-working machine. No. 1,333,143; Mar. 9; v. 272; p. 236.
Wadsworth, Frank L. O., Pittsburgh, Pa., assignor to Ball Brothers Glass Manufacturing Company, Muncie, Ind. Manipulating glass and similar substances. No. 1,334,725; Mar. 23; v. 272; p. 639.
Wadsworth, Frank L. O., Pittsburgh, assignor to Skinner Engine Company, Erie, Pa. Steam-engine. No. 1,348,256; Aug. 3; v. 277; p. 25.
Wadsworth, Harry E., New York, and W. B. Ensign, White Plains, N. Y. Automatic electrical circuit-breaker. No. 1,352,707; Sept. 14; v. 278; p. 228.
Wadsworth, Harry E., New York, and W. B. Ensign, White Plains, N. Y. Automatic electric-circuit breaker. No. 1,358,268; Nov. 9; v. 280; p. 267.
Wadsworth, Harry E., New York, and W. B. Ensign, White Plains, N. Y. Automatic electric-circuit breaker. No. 1,359,298; Nov. 16; v. 280; p. 514.
Wadsworth, Herbert, Avon, N. Y. Silo. No. 1,359,209; Nov. 16; v. 280; p. 496.
Wadsworth, Howard L., Cleveland, Ohio. Sand-cutting machine. No. 1,345,521; July 6; v. 276; p. 88.
Wadsworth, Howard L., Cleveland, Ohio. Sand-cutting machine. No. 1,349,988; Aug. 17; v. 277; p. 486.
Wadsworth, Howard L., Cleveland, Ohio, assignor to Sand Mixing Machine Company, Incorporated, New York, N. Y. Mixing apparatus. No. 1,332,938; Mar. 9; v. 272; p. 197.
Wadsworth, Howard L., Cleveland, Ohio, assignor to Sand Mixing Machine Company, Incorporated, New York, N. Y. Sand cutting and screening mechanism. No. 1,332,939; Mar. 9; v. 272; p. 197.
Wadsworth, Walter A., *et al.* (See Musebeck, George C., assignor.)
Waechter, Charles H., New York, N. Y. Attachment for bathtubs. No. 1,353,313; Sept. 21; v. 278; p. 407.
Waechter, Ferdinand F., Philadelphia, Pa. Making puddle-balls and furnaces therefor. No. 1,340,690; May 18; v. 274; p. 517.
Waegel, William, Reading, Pa. Flash-light holder. No. 1,352,708; Sept. 14; v. 278; p. 228.
Waelti, Otto N., and E. F. Chesney, Semans, Saskatchewan, Canada. Automobile-extractor. No. 1,334,195; Mar. 16; v. 272; p. 493.
Waelty, Angelica, South San Francisco, Calif. Clamp. No. 1,342,362; June 1; v. 275; p. 146.
Waern, James D., South Melbourne, Victoria, Australia. Metal building unit. No. 1,336,324; Apr. 6; v. 273; p. 117.
Waern, James D., South Melbourne, Victoria, Australia. Shaft-hanger or plumber-block. No. 1,344,527; June 22; v. 275; p. 754.
Waern, William, Stockholm, Sweden. Friction-clutch. No. 1,334,685; Mar. 23; v. 272; p. 632.
Wafer, William H., and J. Murrin, Chicago, Ill. Gage or try-cock. No. 1,349,594; Aug. 17; v. 277; p. 411.
Wagenfohr, Carl. (See Taussig, G., and Wagenfohr.)
Waggoner, Claude M., assignor of one-half to I. B. Potter, Riverside, Calif. Ladder. No. 1,346,518; July 13; v. 276; p. 297.
Wagenhorst, James H., Akron, Ohio. Tire-shoe and rim therefor. No. 1,335,411; Mar. 30; v. 272; p. 829.
Wagenhorst, James H., Akron, Ohio. Battery-jar-forming machine. No. 1,338,470; Apr. 27; v. 273; p. 728.
Wagenhorst, James H., Akron, Ohio. Pump or compressor. No. 1,352,107; Sept. 7; v. 278; p. 76.
Wagenhorst, James H., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Demountable split rim. No. 1,328,605; Jan. 20; v. 270; p. 422.
Waggaman, William H., Washington, D. C. Manufacture of phosphorus and phosphoric acid. No. 1,334,474; Mar. 23; v. 272; p. 592.
Waggoner, Jacob E., assignor to Halftime Cooker Company, Chicago, Ill. Pressure-cooker. No. 1,337,981; Apr. 20; v. 273; p. 567.
Wagman, E., and H. Brussell, Philadelphia, Pa. Motor attachment for sewing or other machines. No. 1,350,128; Aug. 17; v. 277; p. 513.
Wagner, Albert F., New York, N. Y. Gearing for generators and distributers. No. 1,327,504; Jan. 6; v. 270; p. 116.
Wagner, Charles. (See Leist, W. C., and Wagner.)
Wagner, Charles H., Penbrook, Pa. Nut-lock. No. 1,359,299; Nov. 16; v. 280; p. 514.
Wagner, Charles H., Washington, D. C. Submarine boat. No. 1,363,937; Dec. 28; v. 281; p. 719.
Wagner Electric Manufacturing Company. (See Dick, Burns, assignor.)
Wagner Electric Manufacturing Company. (See Evans, George B., assignor.)
Wagner Electric Manufacturing Company. (See Fynn, Valère A., assignor.)
Wagner Electric Manufacturing Company. (See Sparrow, Simon, assignor.)
Wagner Electric Manufacturing Company. (See Welchsel, Hans, assignor.)
Wagner Engineering Company, The. (See Doty, Walter G., assignor.)
Wagner, Francis A., and F. H. Hartzell, assignors to The American Mechanical Toy Company, Dayton, Ohio. Switch. No. 1,361,937; Dec. 14; v. 281; p. 238.
Wagner, Frank J., Yonkers, N. Y. Bag-turning machine. No. 1,331,546; Feb. 24; v. 271; p. 532.
Wagner, Frank J., Yonkers, N. Y. Machine for cleaning truck-wheels and the like. No. 1,338,714; May 4; v. 274; p. 12.
Wagner, Fritz. (See Frey, Charles P., and Wagner.)
Wagner, Gerald W., Bellaire, Ohio. Automobile-signal. No. 1,334,196; Mar. 16; v. 272; p. 493.
Wagner, Henry S., Philadelphia, Pa. Gun-sling. No. 1,332,088; Feb. 24; v. 271; p. 635.
Wagner, Herbert H., Rochester, N. Y. Wrapping folding paste-board boxes. No. 1,363,024; Dec. 21; v. 281; p. 502.
Wagner, Herbert H., Rochester, N. Y. Form for wrapping folding boxes. No. 1,363,025; Dec. 21; v. 281; p. 502.
Wagner, James, Cleveland, Ohio. Piston. No. 1,355,519; Oct. 12; v. 279; p. 264.
Wagner, Louis P., Milwaukee, Wis. Combination inlay and orthodontia clamp. No. 1,348,257; Aug. 3; v. 277; p. 26.
Wagner, Orlando S., Franklin, Ind. Automatic stock-feeder. No. 1,362,974; Dec. 21; v. 281; p. 492.
Wagner, Phillip, Earl Grey, Saskatchewan, Canada. Grain-shocker. No. 1,331,224; Feb. 17; v. 271; p. 451.
Wagner, R. E., and W. E. Laird, Pittsfield, Mass., assignors to General Electric Company. Welding-machine. No. 1,353,684; Sept. 21; v. 278; p. 482.
Wagner, Rudolf E., assignor to Aktiebolaget Karlstads Mekaniska Verkstad, Karlstad, Sweden. Process of and means for removing water from the pulp sheet in the wood-pulp and cellulose manufacture. No. 1,347,723; July 27; v. 276; p. 651.
Wagner, Rudolf E., assignor to Aktiebolaget Karlstads Mekaniska Verkstad, Karlstad, Sweden. Apparatus for extracting water from wood-pulp and the like. No. 1,347,724; July 27; v. 276; p. 651.
Wagner, William F., North Braddock, Pa. Bolt-keeper. No. 1,353,440; Sept. 21; v. 278; p. 432.
Wagoner, Henry V., New York, N. Y. Box and making. No. 1,356,895; Oct. 26; v. 279; p. 620.
Wagoner, Joseph F., Danville, Ill. Shock-absorber. No. 1,328,700; Jan. 20; v. 270; p. 439.
Wagoner, Judson E., Monongahela, Pa., assignor to Combustion Engineering Corporation, New York, N. Y. Mechanical stoker. No. 1,354,357; Sept. 28; v. 278; p. 661.
Wahl, Arnold S., Wheaton, assignor to The Arnold Wahl Institute, Chicago, Ill. Food compound and preparing same. No. 1,350,756; Aug. 24; v. 277; p. 683.
Wahl Company, The. (See Boa, Robert G. C., assignor.)
Wahl Company, The. (See Bricken, John, assignor.)
Wahl Company, The. (See Gerry, Wilfred E., assignor.)
Wahl Company, The. (See Keeran, Charles R., assignor.)
Wahl Company, The. (See Poole, Arthur F., assignor.)
Wahl Company, The. (See Wahl, J. C., Hasselquist, and Poole, assignors.)
Wahl Company, The. (See Wahl, John C., assignor.)
Wahl, Frank S., North Tonawanda, N. Y. Internal-combustion engine. No. 1,338,056; Apr. 27; v. 273; p. 650.
Wahl, George E., Chicago, Ill. Chuck for button-cutting machines. No. 1,348,190; Aug. 3; v. 277; p. 11.
Wahl, John C., Chicago, Ill., assignor to The Wahl Company, Wilmington, Del. Calculating-machine. No. 1,349,024; Aug. 10; v. 277; p. 225.
Wahl, John C., Chicago, Ill., assignor to The Wahl Company, Wilmington, Del. Mechanical pencil. No. 1,349,025; Aug. 10; v. 277; p. 225.
Wahl, John C., Chicago, Ill. assignor, by mesne assignments, to The Wahl Company, Wilmington, Del. Fountain-pen. No. 1,351,591; Aug. 31; v. 277; p. 909.
Wahl, John C., and H. S. Hasselquist, Chicago, and A. F. Poole, Kenilworth, Ill., assignors to The Wahl Company, Wilmington, Del. Pencil clip. No. 1,334,332; Mar. 23; v. 272; p. 566.
Wahlert, Henry A., assignor to The American Brake Company, St. Louis, Mo. Hand-brake. No. 1,343,697; June 15; v. 275; p. 526.
Wahlstrom, Charles S., Boulder, Colo. Truss. No. 1,353,867; Sept. 28; v. 278; p. 561.
Wahlstrom, John P., Minneapolis, Minn. Selective circuit-closer. No. 1,327,505; Jan. 6; v. 270; p. 116.

Digitized by Google

Wahnsiedler, Charles G., Evansville, Ind. Geared, adjustable, pipe-threading device. No. 1,345,567; July 6; v. 276; p. 47.
Wainwright, Charles, Erie, Pa. Box plate-valve. No. 1,334,197; Mar. 16; v. 272; p. 494.
Wainwright, Charles, Erie, Pa. Plate-valve. No. 1,334,198; Mar. 16; v. 272; p. 494.
Wainwright, Charles, Erie, Pa. Uniflow steam-engine. No. 1,348,672; Aug. 3; v. 277; p. 105.
Wainwright, Charles, Erie, Pa. Regulator for air-compressors. No. 1,353,098; Sept. 14; v. 278; p. 305.
Wainwright, Joseph E., Brooklyn, N. Y. Valve-grinding tool. No. 1,345,043; June 29; v. 275; p. 917.
Wais, Charles C., Cincinnati, Ohio. Ball and making same. No. 1,339,992; May 11; v. 274; p. 327.
Wais, Charles C., Cincinnati, Ohio, assignor of one-half to C. Schwerin, Covington, Ky. Protective pocket. No. 1,351,816; Sept. 7; v. 278; p. 20.
Waisner, Charles L., New Kensington, assignor to Mirror Rouge Company, Tarentum, Pa. Apparatus for manufacturing rouge. No. 1,357,664; Nov. 2; v. 280; p. 87.
Wait, Henry H., Chicago, Ill. Brush structure. No. 1,363,758; Dec. 28; v. 281; p. 684.
Wait, Henry H., Chicago, Ill., assignor to Midwest Engine Company, Indianapolis, Ind. Steam-turbine. No. 1,359,210; Nov. 16; v. 280; p. 496.
Wait, Henry H., Anderson, assignor to Midwest Engine Company, Indianapolis, Ind. Steam-turbine. No. 1,364,012; Dec. 28; v. 281; p. 734.
Wait, Jay G., Sturgis, Mich. Rotary valve for internal-combustion engines. No. 1,360,061; Nov. 23; v. 280; p. 710.
Wait, John T., Indianapolis, Ind. Chimney-cowl. No. 1,359,551; Nov. 23; v. 280; p. 610.
Wait, Justin F., Niagara Falls, N. Y. Filter. No. 1,331,732; Feb. 24; v. 271; p. 567.
Wait, Justin F., Buffalo, N. Y. Treating filtration-membranes. No. 1,350,532; Aug. 24; v. 277; p. 640.
Waite, Frank H., Long Island City, N. Y. Furnace-arch. No. 1,330,925; Feb. 17; v. 271; p. 396.
Waite, Fred, Otley, near Leeds, England. Ink-saving device for intaglio printing and embossing presses. No. 1,351,545; Aug. 31; v. 277; p. 900.
Waite, Fred, Otley, near Leeds, England. Web-printing platen-press. No. 1,356,242; Oct. 19; v. 279; p. 446.
Waite, Guy B., New York, N. Y. Tire-protector. No. 1,329,482; Feb. 3; v. 271; p. 26.
Waite, Guy B., New York, N. Y. Antislipping device for automobile-tires. No. 1,329,483; Feb. 3; v. 271; p. 26.
Waite, Guy B., New York, N. Y. Attachment device for antiskid means. No. 1,329,484; Feb. 3; v. 271; p. 27.
Waite, Guy B., New York, N. Y. Antiskid device for tires. No. 1,343,293; June 15; v. 275; p. 445.
Waite, Guy B., New York, N. Y. Tread-block for tires. No. 1,343,294; June 15; v. 275; p. 446.
Waite, Harry F., New York, N. Y., assignor to General Electric Company. X-ray apparatus. No. 1,334,936; Mar. 23; v. 272; p. 682.
Waite, Harry F., New York, N. Y. X-ray system. No. 1,343,599; June 15; v. 275; p. 506.
Waite, Lorenzo E., Toledo, Ohio. Feeding mechanism for machine-tools. No. 1,340,584; May 18; v. 274; p. 497.
Waite, Lorenzo E., Toledo, Ohio. Spindle-driving mechanism for machine-tools. No. 1,340,585; May 18; v. 274; p. 497.
Waite, Lorenzo E., Toledo, Ohio. Quick-traverse mechanism for feeds for machine-tools. No. 1,340,586; May 18; v. 274; p. 497.
Waite, Lorenzo E., assignor to Toledo Milling Machine Company, Toledo, Ohio. Spindle mechanism for milling and like machines. No. 1,356,842; Oct. 26; v. 279; p. 610.
Waite, William T., Kansas City, Mo. Automatic drag for player-piano transmissions. No. 1,351,881; Sept. 7; v. 278; p. 34.
Waitekaites, Joseph, Little Rock, Ark. Grain-cleaner. No. 1,360,062; Nov. 23; v. 280; p. 710.
Waitt, George L., Buffalo, N. Y. Chaplet. No. 1,327,689; Jan. 13; v. 270; p. 213.
Wajdić, Petar, Pleasant Unity, Pa. Tire-pump. No. 1,346,284; July 13; v. 276; p. 251.
Wajtukiewicz, Felix, New York, N. Y. Davenport-bed. No. 1,360,478; Nov. 30; v. 280; p. 861.
Wake, Charles E., Walla Walla, Wash. Spark-plug holder. No. 1,338,540; Apr. 27; v. 273; p. 740.
Wakefield, C. C., & Company. (See Bliss, John, assignor.)
Wakefield, Edward E., assignor to Tubular-Rivet & Stud Company, Providence, R. I. Lacing-stud-setting machine. No. 1,328,701; Jan. 20; v. 270; p. 439.
Wakefield, Edwin C., Chicago, Ill., assignor to Marshall Field & Company. Garment-form. No. 1,332,583; Mar. 2; v. 272; p. 78.
Wakefield, F. W., Brass Company, The. (See Wakefield, Frederick W., assignor.)
Wakefield, Frederick W., assignor to The F. W. Wakefield Brass Company, Vermilion, Ohio. Vehicle-lamp. No. 1,330,562; Feb. 10; v. 271; p. 259.
Wakefield, Lee H., Seattle, Wash. Live-fish-transporting barge. No. 1,332,653; Mar. 2; v. 272; p. 92.
Wakefield, Ralph A., Sacramento, Calif. Self-propelled vehicle. No. 1,336,935; Apr. 13; v. 273; p. 294.
Wakefield, Richard E. B., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Welding-tool. No. 1,343,242. June 15; v. 275; p. 437.
Walas, Antoni, Chicago, Ill. Picture-frame. No. 1,342,477; June 8; v. 275; p. 222.
Walbach, William F. (See Carrau, Edward, assignor.)
Wald, Julius H. (See Neukirchen, Peter, assignor.)
Wald, Julius H., Chicago, Ill. Kettle-drainer. No. 1,346,355; July 13; v. 276; p. 264.
Walden, Alfred, London, England, assignor of one-half to H. J. Walsh, Bexhill-on-Sea, England. Construction of hampers. No. 1,327,362; Jan. 6; v. 270; p. 90.
Walden, Frederick E., Worcester, Mass. Pipe-wrench. No. 1,333,517; Mar. 9; v. 272; p. 306.
Walden, Marcus A., assignor to Frank Draber, San Francisco, Calif. Cooking-vessel and cover therefor. No. 1,344,836; June 29; v. 275; p. 879.
Walden, Samuel L., Atlantic City, N. J. Internal-combustion engine. No. 1,359,939; Nov. 23; v. 280; p. 686.
Walder, Edward, Evanston, Ill. Cyclometer attachment. No. 1,361,421; Dec. 7; v. 281; p. 89.
Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,333,356; Mar. 9; v. 272; p. 276.
Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing-machine. No. 1,333,690; Mar. 16; v. 272; p. 399.
Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing-machine. No. 1,333,825; Mar. 16; v. 272; p. 424.
Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,339,078; May 4; v. 274; p. 80.
Waldheim, John, Elizabeth, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,339,993; May 11; v. 274; p. 327.
Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,340,469; May 18; v. 274; p. 474.
Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,340,864; May 18; v. 274; p. 548.
Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,340,925; May 25; v. 274; p. 631.
Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,341,028; May 25; v. 274; p. 652.
Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,349,174; Aug. 10; v. 277; p. 255.
Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,349,864; Aug. 17; v. 277; p. 463.
Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,350,398; Aug. 24; v. 277; p. 613.
Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,363,294; Dec. 28; v. 281; p. 595.
Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,362,204; Dec. 14; v. 281; p. 291.
Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,362,547; Dec. 14; v. 281; p. 358.
Waldmann, Paul E., Baltimore, Md. Bolt-fastening means. No. 1,356,843; Oct. 26; v. 279; p. 610.
Waldo Brothers, Incorporated. (See Waldo, Charles S., assignor.)
Waldo, Charles S., Brookline, assignor to Waldo Brothers, Incorporated, Boston, Mass. Sectional wooden pipe-covering. No. 1,345,423; July 6; v. 276; p. 19.
Waldref, Grant. (See Anderson, Albert S., assignor.)
Waldref, Grant. (See Mason, Charles E., assignor.)
Waldref, Grant, St. Paul, Minn. Hydraulic unloader. No. 1,339,079; May 4; v. 274; p. 80.
Waldrep, Granville J., Fannett, Tex. Float-controlled liquid-gaging and cut-off means. No. 1,344,663; June 29; v. 275; p. 845.
Waldrip, Julia E., *et al.* (See Pain, William, assignor.)
Waldron, Fred D., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Transmitter-support. No. 1,329,031; Jan. 27; v. 270; p. 531.
Waldron, James M., Englewood, N. J., and J. P. Coleman, Edgewood, borough, Pa., assignors to The Union Switch & Signal Company, Swissvale, Pa. Circuit-controller. No. 1,362,205; Dec. 14; v. 281; p. 292.
Waldron, Nelson B., Lewiston, Me. Centrifugal pump. No. 1,361,938; Dec. 14; v. 281; p. 238.
Wales Adding Machine Company. (See Birth, Charles, assignor.)
Wales Adding Machine Company. (See Briechle, Ambrosius, assignor.)
Wales Adding Machine Company. (See Fritts, Jacob S., assignor.)
Wales Adding Machine Company. (See Palmer, Frank B., assignor.)
Wales Adding Machine Company. (See Pentecost, A., and Fisher, assignors.)
Wales Adding Machine Company. (See Pentecost, Arthur, assignor.)

Digitized by Google

Alphabetical list of patentees—Continued.

Wales, Charles, New Haven, Conn., assignor to Federal Adding Machine Corporation, New York, N. Y. Machine having sliding carriage. No. 1,344,837; June 29; v. 275; p. 879.
Wales, Marie S., Denver, Colo. Garment. No. 1,360,158; Nov. 23; v. 280; p. 730.
Wales Motors Corporation, The. (See Wales, Nathaniel B., assignor.)
Wales, Nathaniel B. (See Snow, H. M., and Wales.)
Wales, Nathaniel B., assignor to G. Lewis, New York, N. Y. Combined refrigerating and hot-water-storage apparatus. No. 1,331,600; Feb. 24; v. 271; p. 543.
Wales, Nathaniel B., New York, N. Y., assignor, by mesne assignments, to The Wales Motors Corporation. Power plant for automobiles. No. 1,353,099; Sept. 14; v. 278; p. 306.
Wales, Nathaniel B., assignor to Wales Motors Corporation, Detroit, Mich. Air-compression power plant. No. 1,353,100; Sept. 14; v. 278; p. 306.
Wales, Rowland T., New Rochelle, N. Y. Mold for concrete. No. 1,354,705; Oct. 5; v. 279; p. 52.
Walgren, John A., Decatur, Ill. Collapsible container. No. 1,344,601; June 22; v. 275; p. 768.
Waling, Donald, assignor to Keene Mica Products Company, Keene, N. H. Machine for manufacturing composite mica. No. 1,349,351; Aug. 10; v. 277; p. 290.
Walishaw Clock Company, Limited. (See Collins, Norman, assignor.)
Walk, Jasper J., Oakland, Calif. Rotating internal-combustion engine. No. 1,344,158; June 22; v. 275; p. 680.
Walke, Ferdinand G., San Francisco, Calif. Internal-combustion engine. No. 1,335,947; Apr. 6; v. 273; p. 46.
Walker, Albert D. C. (See Johnson, H., and Walker.)
Walker, Alonsita, Washington, D. C. Nethergarment. No. 1,334,823; Mar. 23; v. 272; p. 659.
Walker, Asa C., Mount Airy, assignor of one-half to F. M. Boston, Atlanta, Ga. Tie-spacing device for railways. No. 1,349,026; Aug. 10; v. 277; p. 225.
Walker & Barkman Manufacturing Company, The. (See Taylor, Joseph A., assignor.)
Walker, Charles E., Grand Rapids, Mich. Reel. No. 1,352,041; Sept. 7; v. 278; p. 64.
Walker, Charles T. (See Redman, R., Parkinson, and Walker.)
Walker, Clarence H., New York, N. Y. Attachment for levers. (Reissue.) No. 14,944; Aug. 31; v. 277; p. 935.
Walker, Emery L., Milwaukee, Wis. Sealing-machine. No. 1,346,072; July 6; v. 276; p. 147.
Walker, Frank H., assignor of one-half to S. H. Gilbert, Chicago, Ill. Starter. No. 1,355,630; Oct. 12; v. 279; p. 285.
Walker, Fred M., Detroit, Mich. Hydrocarbon-burner. No. 1,341,688; June 1; v. 275; p. 15.
Walker, Fred W., Hulbert, Okla. Educational chart. No. 1,352,042; Sept. 7; v. 278; p. 64.
Walker, Frederick W., Port Washington, Wis. Booster system. No. 1,335,541; Mar. 30; v. 272; p. 853.
Walker, Freman H., Boswell, Okla. Brickmaking-machine. No. 1,350,628; Aug. 24; v. 277; p. 658.
Walker, George H., Worcester, assignor to Heenan & Froude, Limited, Manchester, England. Apparatus for treating gases with liquids. No. 1,353,685; Sept. 21; v. 278; p. 482.
Walker, George T., assignor to Colonial Chemical Company, Minneapolis, Minn. Concentrating liquids. No. 1,330,016; Feb. 3; v. 271; p. 125.
Walker, George W., Far Rockaway, N. Y. Mechanical toy horse. No. 1,337,300; Apr. 20; v. 273; p. 437.
Walker, Gilbert S., Brooklyn, N. Y. Automatic water-heater. No. 1,330,362; Feb. 10; v. 271; p. 221.
Walker, Harold W. (See Coblentz, V., and Walker.)
Walker, Harry, Anaheim, Calif. Extra-tire carrier. No. 1,330,102; Feb. 10; v. 271; p. 173.
Walker, Harry M., Ellenton, S. C. Centering-punch. No. 1,351,592; Aug. 31; v. 277; p. 909.
Walker, Harry R., Galatia, Ill. Intensifier. No. 1,344,528; June 22; v. 275; p. 754.
Walker, Henry C. (See Kampfe, Otto, assignor.)
Walker, Herman, Meadow Bridge, W. Va. Fuse-tool. No. 1,356,243; Oct. 19; v. 279; p. 446.
Walker, Horace E., Norman, Okla. Cotton-boll extractor and cotton-cleaning machine. No. 1,354,358; Sept. 28; v. 278; p. 661.
Walker, Howard I., Columbus, Ohio. Scaffold. No. 1,359,452; Nov. 16; v. 280; p. 545.
Walker, Hubert, Cleckheaton, England. Apparatus for scouring, dyeing, or otherwise treating with liquor, wool, yarn, or other fibrous material. No. 1,354,081; Sept. 28; v. 278; p. 605.
Walker, John, Toronto, Ontario, Canada. Corner-bracket for bed-frames. No. 1,334,639; Mar. 23; v. 272; p. 623.
Walker, John B., New York, N. Y. Container for bricks. No. 1,331,544; Feb. 24; v. 271; p. 532.
Walker, John F. (See Bowen, D. C., and Walker.)
Walker, John H., Rhine, Ga. Boll-weevil catcher. No. 1,363,026; Dec. 21; v. 281; p. 503.
Walker, Joseph, Canonsburg, Pa. Tire-retaining demountable rim. No. 1,345,522; July 6; v. 276; p. 38.
Walker, Joseph L. (See Dozier, J. C., and Walker.)
Walker, Karl G., Sewickley, Pa., assignor, by mesne assignments, to W. S. Lawson, Jr., New York, N. Y. Apparatus for drilling non-circular holes. No. 1,359,129; Nov. 16; v. 280; p. 481.
Walker, Luther G., Pueblo, Colo. Draw-bar coupling. No. 1,335,211; Mar. 30; v. 272; p. 792.
Walker, Luther J., Helena, Mont. Ventilating apparatus. No. 1,331,297; Feb. 17; v. 271; p. 464.
Walker, Luther J., Helena, Mont. Rake. No. 1,362,065; Dec. 14; v. 281; p. 264.
Walker, Malcolm, Glasgow, Scotland, assignor to Smith and Coventry Limited, Salford, England. Magnetic clutch. No. 1,327,506; Jan. 6; v. 270; p. 117.
Walker, Malcolm, Glasgow, Scotland. Electrically-operated friction-clutch. No. 1,342,270; June 1; v. 275; p. 129.
Walker Manufacturing Company. (See Berkeley, Laurence J., assignor.)
Walker Manufacturing Company. (See Mizer, J. J., and Jacob, assignors.)
Walker, Matthew A., South Connellsville, Pa. Shell for machine-guns. No. 1,338,802; May 4; v. 274; p. 29.
Walker, Miles, Manchester, England, assignor to Westinghouse Electric & Manufacturing Company. Dynamo-electric machine. No. 1,335,144; Mar. 30; v. 272; p. 780.
Walker, Moses F., Cadiz, Ohio. Film-end fastener for motion-picture-film reels. No. 1,328,408; Jan. 20; v. 270; p. 385.
Walker, Moses F., Cadiz, Ohio. Motion-picture-film reel. No. 1,345,813; July 6; v. 276; p. 95.
Walker, Moses F., Cadiz, Ohio. Alarm for motion-picture-film reels. No. 1,348,609; Aug. 3; v. 277; p. 93.
Walker, O. S., Co. (See Walker, Oakley S., assignor.)
Walker, Oakley S., assignor to O. S. Walker Co., Worcester, Mass. Magnetic chuck. No. 1,329,733; Feb. 3; v. 270; p. 72.
Walker, Percevall E., Holbrook, Oreg. Chicken-brooder. No. 1,349,175; Aug. 10; v. 277; p. 255.
Walker, Reginald E., Tyseley, Birmingham, England. Spring-frame for motorcycles. No. 1,340,508; May 18; v. 274; p. 482.
Walker, Richard E., Roanoke, Va. Convertible railway-car. No. 1,344,322; June 22; v. 275; p. 713.
Walker, Richard E., Roanoke, Va. Convertible railway-car. No. 1,344,323; June 22; v. 275; p. 713.
Walker, Roy S., assignor to L. R. Alderman & Co., Pasadena, Calif. Snail and slug trap. No. 1,327,579; Jan. 6; v. 270; p. 131.
Walker, Stoughton L., and J. M. Lawrenson, Jersey Shore, Pa. Collapsible container. No. 1,346,731; July 13; v. 276; p. 339.
Walker, Thomas B., Austin, Tex. Electrolytic cell. No. 1,357,485; Nov. 2; v. 280; p. 53.
Walker, Thomas H., Wallace, Idaho. Current-motor. No. 1,346,285; July 13; v. 276; p. 251.
Walker, W. O. (See Musser, Harry A., assignor.)
Walker Wells Company. (See Wells, Gorge W., assignor.)
Walker, Willard T., Racine, Wis. Lifting-jack. No. 1,333,645; Mar. 16; v. 272; p. 391.
Walker, William, Langside, Glasgow, assignor to John MacDonald & Son Limited, Maryhill, Glasgow, Scotland. Support for pneumatic tools. No. 1,335,807; Apr. 6; v. 273; p. 20.
Walker, William, Glasgow, assignor to John MacDonald & Son Limited, Maryhill, Glasgow, Scotland. Blower for portable rivet hearths or forges. No. 1,356,674; Oct. 26; v. 279; p. 577.
Walker, William F., Chicago, Ill. Mail-box. No. 1,344,281; June 22; v. 275; p. 704.
Walker, William L., New York, N. Y. Signaling apparatus. No. 1,349,305; Aug. 10; v. 277; p. 281.
Walker, William L., New York, N. Y. Explosive shell. No. 1,351,078; Aug. 31; v. 277; p. 806.
Walker, William T., Vinita, Okla. Change-speed mechanism. No. 1,342,195; June 1; v. 275; p. 115.
Walker, Willis F., Slesholtzville, Pa. Railway-tie. No. 1,356,417; Oct. 19; v. 279; p. 480.
Walkup, Vincent A., Apache, Okla. Resilient wheel. No. 1,339,800; May 11; v. 274; p. 291.
Wall, Arthur W., Sheldon, near Birmingham, England. Crank or crank-shaft of internal-combustion engines. No. 1,336,546; Apr. 13; v. 273; p. 219.
Wall, Arthur W., Sheldon, near Birmingham, England. Sectionalized piston-head. No. 1,359,130; Nov. 16; v. 280; p. 481.
Wall, August A., Brooklyn, N. Y. Swing. No. 1,356,418; Oct. 19; v. 279; p. 480.
Wall, Edward J., Syracuse, N. Y., assignor to Kalmus Comstock & Wescott, Incorporated, Boston, Mass. Dye recovery. No. 1,337,673; Apr. 20; v. 273; p. 507.
Wall, James E. (See Hart, G. M., and Wall.)
Wall, John C. (See Haschke, Feodor G., assignor.)
Wall, John F., U. S. Army, and J. F. Coonan, Boise, Idaho. Photographic camera. No. 1,362,548; Dec. 14; v. 281; p. 358.
Wall & Ochs Incorporated. (See Wall, William L., assignor.)
Wall, Ormond E., Honolulu, Hawaii. Attachment for player-pianos. No. 1,331,883; Feb. 24; v. 271; p. 587.
Wall, Thomas F., Southsea, England. Alternating-current generator. No. 1,356,244; Oct. 19; v. 279; p. 447.

Digitized by Google

Alphabetical list of patentees—Continued.

Wall, William L., assignor to Wall & Ochs Incorporated, Philadelphia, Pa. Ophthalmic mounting. No. 1,360,603; Nov. 30; v. 280; p. 880.

Wallace, Allen, Moorestown, N. J., assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Footplate for electric locomotives. No. 1,343,698; June 15; v. 275; p. 526.

Wallace, Alvie T. (See Swartz, I. T., and Wallace.)

Wallace, Arthur T., *et al.* (See Mentzer, Claude E., assignor.)

Wallace, Charles F., Tompkinsville, and M. F. Tiernan, New Rochelle, N. Y. Sterilizing apparatus. No. 1,332,010; Feb. 24; v. 271; p. 620.

Wallace, Charles F., New York, assignor of one-half to M. F. Tiernan, Jamaica, N. Y. Variable-orifice valve. No. 1,326,998; Jan. 6; v. 270; p. 23.

Wallace, David P. (See Jones, S. P., and Wallace.)

Wallace, Duncan M. (See Guthrie, William, assignor.)

Wallace, Erwin E. (See Newton, Frank J., assignor.)

Wallace, Frederick L. (See Johnston, W. A., Browne, and Wallace.)

Wallace, George H., New York, N. Y. Oil-gage for automobiles. No. 1,354,788; Oct. 5; v. 270; p. 69.

Wallace, George H., Cambridge, Mass. Attachment for hand-saws. No. 1,360,604; Nov. 30; v. 280; p. 885.

Wallace, George W., East St. Louis, Ill. Apparatus for distilling carbonaceous materials. No. 1,358,662; Nov. 9; v. 280; p. 346.

Wallace, George W., East St. Louis, Ill. Carbonizing carbonaceous materials. No. 1,358,663; Nov. 9; v. 280; p. 346.

Wallace, George W., East St. Louis, Ill. Distilling carbonaceous materials. No. 1,358,664; Nov. 9; v. 280; p. 347.

Wallace, H. C., Kansas City, and O. N. Gredell, Winwood Lake, Mo. Grain separator and grader. No. 1,360,834; Nov. 30; v. 280; p. 930.

Wallace, Halbert C., Kansas City, Mo. Straw-spreading mechanism. No. 1,347,606; July 27; v. 276; p. 627.

Wallace, Herbert A., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling system. No. 1,344,070; June 22; v. 275; p. 664.

Wallace, Herbert A., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. No. 1,359,131; Nov. 16; v. 280; p. 481.

Wallace, John, Helensburgh, Scotland, and T. R. Lees, Shirehampton, England. Steam-valve. No. 1,336,451; Apr. 13; v. 273; p. 200.

Wallace, John B., Mukwonago, Wis. Plow. No. 1,335,212; Mar. 30; v. 272; p. 792.

Wallace, John M., Houston, Tex. Bed. No. 1,363,295; Dec. 28; v. 281; p. 596.

Wallace, John W., Cartierville, Quebec, Canada. Door-latch. No. 1,360,835; Nov. 30; v. 280; p. 930.

Wallace, Leslie M., Holstein, Iowa. Bicycle. No. 1,329,940; Feb. 3; v. 271; p. 111.

Wallace, Loy H., Phoenix, Ariz. Battery-card holder. No. 1,363,545; Dec. 28; v. 281; p. 644.

Wallace, Peter, Vancouver, British Columbia, Canada. Means for separating small from large fish. No. 1,328,551; Jan. 20; v. 270; p. 412.

Wallace, Philip B., Burlingame, and F. H. Fox, San Francisco, Calif. Work-holder. No. 1,326,999; Jan. 6; v. 270; p. 23.

Wallace, Philip B., Burlingame, and F. H. Fox, San Francisco, Calif. Gear-clutch for bending-machines. No. 1,342,363; June 1; v. 275; p. 146.

Wallace, Robert M., and E. J. Scott, Santa Ana, Calif. Device for opening and closing doors for garages, &c. No. 1,360,479; Nov. 30; v. 280; p. 861.

Wallace, Robert W., Montesano, Wash. Mowing-machine attachment. No. 1,337,863; Apr. 20; v. 273; p. 544.

Wallace, Thomas, Wabash, Ind. Teeter-totter. No. 1,349,701; Aug. 17; v. 277; p. 432.

Wallace, Thomas, Brooklyn, N. Y. Camera-shutter and operating mechanism therefor. No. 1,361,939; Dec. 14; v. 281; p. 238.

Wallace, Thomas P., Concord, N. H. Clasp for belts, suspenders, &c. No. 1,357,751; Nov. 2; v. 280; p. 105.

Wallace, William, Edinburgh, Scotland. Telemotor apparatus. No. 1,342,238; June 1; v. 275; p. 123.

Wallace, William, Portland, Oreg. Doughnut-baking machine. No. 1,356,573; Oct. 26; v. 279; p. 557.

Wallace, William H., Newark, N. J. Spark-plug cleaner, tester, and adjuster. No. 1,345,721; July 6; v. 276; p. 77.

Wallace, William W. (See Fryer, J. A., and Wallace.)

Wallace, William W., Bucyrus, Ohio, assignor to R. C. Penfield, Chicago, Ill. Multiple-tool lathe. No. 1,353,686; Sept. 21; v. 278; p. 482.

Wallem, Axel B., Cynwyd, Pa., assignor, by mesne assignments, to H. S. B. W. Cochrane Corporation, Philadelphia, Pa. Steam-trap. No. 1,347,607; July 27; v. 276; p. 627.

Wallen, Earl S., Lansford, assignor, by mesne assignments, to Coxe Traveling Grate Company, Hazleton, Pa. Mechanical stoker. No. 1,339,531; May 11; v. 274; p. 240.

Wallen, Frederick F. (See Wallen, Leo T. and F. F.)

Wallen, Leo T. and F. F., Newark, N. J. Point for electrical contacts of ignition apparatus. No. 1,362,455; Dec. 14; v. 281; p. 340.

Wallenstein, Leo, Brooklyn, N. Y. Stencil. No. 1,345,653; July 6; v. 276; p. 63.

Waller, Carl R., assignor to De Laval Steam Turbine Company, Trenton, N. J. Steam-turbine. No. 1,338,409; Apr. 27; v. 273; p. 716.

Waller, Charles E. (See Bronstein, J. B., and Waller.)

Wallick, Charles H., Omaha, Nebr. Pulling apparatus. No. 1,331,298; Feb. 17; v. 271; p. 464.

Waller, Robert, Pittsburgh, Pa. Automatic train-stop. No. 1,343,857; June 15; v. 275; p. 558.

Waller, William C., Wiggins, Miss. Cutting-machine. No. 1,355,021; Oct. 5; v. 279; p. 114.

Wallick, Wallace R., Lincoln, Nebr. Combination fixture-hanger and concealed switch-holder. No. 1,362,906; Dec. 21; v. 281; p. 479.

Walling, Clyde E., Frankfort, Ind. Vehicle-wheel. No. 1,338,471; Apr. 27; v. 273; p. 728.

Walling, William F., Los Angeles, Calif. Means for producing imitative-tile flooring and the like. No. 1,341,528; May 25; v. 274; p. 748.

Wallingsford, William R., Tinsman, Ark. Folding car-step. No. 1,350,903; Aug. 24; v. 277; p. 710.

Wallis, James T., Altoona, Pa. Lubricator. No. 1,337,494; Apr. 20; v. 273; p. 473.

Wallis, John L., Andalusia, Ala., assignor to W. C. Fritter, deceased, Dothan, Ala.; N. C. Fritter administratrix. Hay-press. No. 1,348,911; Aug. 10; v. 277; p. 203.

Wallis, William F. (See Berry, William O., assignor.)

Walmsley, Cuthbert H., Eccles, England. Collapsible chair. No. 1,341,689; June 1; v. 275; p. 15.

Walser, Brittain F., West Salem, Ill. Lifting-jack. No. 1,332,584; Mar. 2; v. 272; p. 78.

Walser, Joseph J., Chicago, Ill., assignor to Goss Printing Press Company. Offset mechanism for printing-presses. No. 1,331,733; Feb. 24; v. 271; p. 567.

Walser, Joseph J., Chicago, Ill., assignor to Goss Printing Press Company. Printing-press impression-cylinder. No. 1,340,194; May 18; v. 274; p. 423.

Walsh, Edward J., Jersey City, N. J. Shelf-tongs. No. 1,328,860; Jan. 27; v. 270; p. 499.

Walsh Harness Company. (See Walsh, James M., assignor.)

Walsh, Harry J. (See Walden, Alfred, assignor.)

Walsh, Harry S., *et al.* (See Vaile, Pembroke A., assignor.)

Walsh, James M., Stockbridge, Wis., assignor to Walsh Harness Company, Wilmington, Del. Hame-fastening. No. 1,358,348; Nov. 9; v. 280; p. 283.

Walsh, Joseph H., Reading, Mass., assignor to H. W. Johns-Manville Company. Heat-protective covering. No. 1,332,314; Mar. 2; v. 272; p. 26.

Walsh, Joseph P., Vancouver, British Columbia, Canada. Wood-refuse burner. No. 1,339,729; May 11; v. 274; p. 278.

Walsh, Michael J., Philadelphia, Pa. Filler and polish composition. No. 1,362,907; Dec. 21; v. 281; p. 480.

Walsh, Vincent, New York, N. Y. Light-distributer. No. 1,349,241; Aug. 10; v. 277; p. 268.

Walsh, William E., New Haven, Conn. Automatic train-stop. No. 1,329,258; Jan. 27; v. 270; p. 574.

Walt, John J., Chicago, Ill. Tool for bending metal rods. No. 1,354,448; Sept. 28; v. 278; p. 679.

Walter, Allen J., Mansfield, Ohio. Combined sound and heating element. No. 1,355,932; Oct. 19; v. 279; p. 384.

Walter, Cecil M., Four Oaks, near Birmingham, England. Electrolytic apparatus. No. 1,353,194; Sept. 21; v. 278; p. 384.

Walter, Edward C., New York, N. Y., assignor to H. T. Ambrose, Orange, N. J. Computing-machine. No. 1,362,549; Dec. 14; v. 281; p. 358.

Walter, Edward C., New York, N. Y., assignor to H. T. Ambrose, Orange, N. J. Calculator. No. 1,362,550; Dec. 14; v. 281; p. 359.

Walter, Edward H., Woodlynne, N. J., assignor of one-half to J. Eppler, Philadelphia, Pa. Feeding and pattern mechanism for warp-knitting machines. No. 1,355,196; Oct. 12; v. 279; p. 201.

Walter, Ernest, Montclair, N. J. Light-weight artificial cement stone for building purposes. No. 1,344,324; June 22; v. 275; p. 713.

Walter, Erwin, Mellingen, Switzerland. Braiding-machine. No. 1,328,216; Jan. 13; v. 270; p. 312.

Walter, Frank L., Dayton, Ohio. Gage. No. 1,346,572; July 13; v. 276; p. 308.

Walter, Harrison B., Danville, Ill. Combination-dies for punching, creasing, and finishing the heads of solid-end paper boxes. No. 1,342,239; June 1; v. 275; p. 123.

Walter, Harrison B., Philadelphia, Pa. Cutting-blade for stapling-machines. No. 1,342,240; June 1; v. 275; p. 124.

Walter, Harrison B., assignor to Fibre Container Company, Philadelphia, Pa. Driving and clenching device for stapling-machines. No. 1,357,534; Nov. 2; v. 280; p. 63.

Walter, Henry C., Bridgeport, Conn., assignor to The Locomobile Company of America, New York, N. Y. Machine for and method of cutting gears. No. 1,341,953; June 1; v. 275; p. 67.

Walter, Hugo J., assignor to Consolidated Machine Company, Bradford, Pa. Apparatus for drawing glass cylinders. No. 1,329,065; Jan. 27; v. 270; p. 587.

Digitized by Google

Alphabetical list of patentees—Continued.

Walter, John M., Calumet, Mich. Permutation-padlock. No. 1,337,674; Apr. 20; v. 273; p. 508.
Walter, Ralph W., Mazomanie, Wis. Cow-stanchion. No. 1,350,480; Aug. 24; v. 277; p. 629.
Walter, Raymond A. (See Eichelberger, L. H., and Walter.)
Walter, Will P., assignor, by mesne assignments, to Safety Anaesthesia Apparatus Concern, Chicago, Ill. Apparatus for administering anesthetics. No. 1,357,601; Nov. 2; v. 280; p. 75.
Walters, Anna G. (See Thompson, Walter V., assignor.)
Walters, Bonnie, and L. Arntz, Des Moines, Iowa. Detachable shoe-heel pad and fastening device therefor. No. 1,330,731; Feb. 10; v. 271; p. 290.
Walters, Canard J., Ellamar, Alaska. Turbine-engine. No. 1,353,687; Sept. 21; v. 278; p. 483.
Walters, Charles, Jr., Wessington Springs, S. D. Steering device. No. 1,339,048; May 4; v. 274; p. 74.
Walters, Frank W., Vancouver, British Columbia, Canada. Submarine armor. No. 1,359,132; Nov. 16; v. 280; p. 482.
Walters, James M., Los Angeles, Calif. Display-stand. No. 1,351,817; Sept. 7; v. 278; p. 20.
Walters, Jesse, Blackhawk county, Iowa. Animal-feeding trough. No. 1,358,484; Nov. 9; v. 280; p. 311.
Walters, John F., Battle Creek, Mich. Pipe-flanging tool. No. 1,350,904; Aug. 24; v. 277; p. 710.
Waltham Watch Company. (See Ohlson, Olof, assignor.)
Walther, Adolph F., Cleveland, Ohio. Sound-insulating support. No. 1,350,349; Aug. 24; v. 277; p. 602.
Walther, Fred, Omaha, Nebr. Internal-combustion-engine water-heater. No. 1,327,507; Jan. 6; v. 270; p. 117.
Walther, George, assignor to The Dayton Steel Foundry Company, Dayton, Ohio. Wheel. No. 1,346,863; July 20; v. 276; p. 424.
Walther, George, assignor to The Dayton Steel Foundry Company, Dayton, Ohio. Wheel. No. 1,346,864; July 20; v. 276; p. 424.
Walther, George, assignor to The Dayton Steel Foundry Company, Dayton, Ohio. Wheel. No. 1,346,865; July 20; v. 276; p. 424.
Walther, Henry S., and G. Henchoz, Yverdon, Switzerland. Butter-mixer. No. 1,354,230; Sept. 28; v. 278; p. 635.
Walther, Paul. (See Holzapfel and Walther.)
Walthers, Frederick W., Malden, assignor of one-half to T. F. Lockney, Sharon, Mass. Phonograph-record. No. 1,331,857; Feb. 24; v. 271; p. 592.
Waltke, Wm., & Co. (See Jones, Robert F., assignor.)
Waltke, Wm., & Company. (See Heeter, Thomas E., assignor.)
Waltman, Walter M., West New Brighton, assignor to R. S. Hart, New York, N. Y. Pipe connection for junction-boxes and the like. No. 1,343,877; June 15; v. 275; p. 562.
Waltner, Albert, Brooklyn, N. Y. Muzzle. No. 1,362,276; Dec. 14; v. 281; p. 306.
Walton, Charles S., Philadelphia, Pa. Drum tightening-ear. No. 1,335,867; Apr. 6; v. 273; p. 30.
Walton, Harry H. (See Fitzgerald, H. R., and Walton.)
Walton, William. (See Wrigley, John, assignor.)
Walton, William L., Bantry, N. D. Wheel-lift. No. 1,340,587; May 18; v. 274; p. 497.
Waltz, Claud M., Summitville, Ind. Belt. No. 1,339,309; May 4; v. 274; p. 121.
Walworth Manufacturing Company. (See Halbritter, John, assignor.)
Walworth Manufacturing Company. (See Wirth and Demmler, assignors.)
Walz, Carl F. (See Sandt, A. R., Walz, and Stahl.)
Walz, Charles F., and F. D. Morris, assignors, by mesne assignments, to National Metal Edge Box Company, Philadelphia, Pa. Box-staying machine. No. 1,346,573; July 13; v. 276; p. 308.
Wamback, Frederic, Greenwich, Conn. Combined milk-bottle holder and lock. No. 1,351,359; Aug. 31; v. 277; p. 863.
Wambaugh, Mahlon W., St. Louis, Mo. Railway-tie. No. 1,341,090; May 25; v. 274; p. 664.
Wampfler, Jacob, Jr., Lowellville, Ohio. Automobile-signal. No. 1,334,979; Mar. 30; v. 272; p. 748.
Wanamaker, Charles B., assignor to Leedy Manufacturing Company, Indianapolis, Ind. Tension-bracket for drums. No. 1,334,334; Mar. 23; v. 272; p. 566.
Wanamaker, John. (See Rehfuss, Martin O., assignor.)
Wandel, Kurt, New York, N. Y. Pulp-screen. No. 1,327,126; Jan. 6; v. 270; p. 46.
Wandel, Kurt, New York, N. Y. Belting. No. 1,357,917; Nov. 2; v. 280; p. 137.
Wandel, Kurt, assignor, by mesne assignments, to The Chemical Foundation, Inc., New York, N. Y. Machine for making reinforced paper. No. 1,362,066; Dec. 14; v. 281; p. 264.
Wander, Joseph, assignor to S. Wander & Sons Chemical Co., Inc., Albany, N. Y. Packaging pulverulent materials. No. 1,344,664; June 29; v. 275; p. 846.
Wander, S., & Sons Chemical Co. (See Wander, Joseph, assignor.)
Wandner, Edmund, Chicago, Ill. X-ray tube. No. 1,359,300; Nov. 16; v. 280; p. 514.
Wangelin, Ernest E., assignor to Twentieth Century Brass Works, Belleville, Ill. Drinking-faucet. No. 1,347,566; July 27; v. 276; p. 619.

Wanielista, Anton, and M. Ostrowiecki, Chicago, Ill. Wall-papering machine. No. 1,327,127; Jan. 6; v. 270; p. 46.
Wanklyn, Frederic L., Montreal, Quebec, Canada. Track-signal. No. 1,355,871; Oct. 19; v. 279; p. 372.
Wanner, Albert, *et al.* (See Curtis, Frederic A., assignor.)
Wanner, Albert, Jr., New York, N. Y. Chair. No. 1,329,485; Feb. 3; v. 271; p. 27.
Wanner, George D., Dayton, Ohio. Kite. No. 1,347,565; July 27; v. 276; p. 619.
Wanner, Michael P., Schefield, N. D. Clevis. No. 1,360,159; Nov. 23; v. 280; p. 730.
Wans, Oswald. (See Green, Wans, and Livens.)
Wantz, Julius B., assignor, by mesne assignments, to Victor Electric Corporation, Chicago, Ill. Electrical apparatus. No. 1,340,588; May 18; v. 274; p. 497.
Wappat, Fred W., Pittsburgh, Pa. Reversing mechanism. No. 1,344,606; June 22; v. 275; p. 770.
Wappler Electric Co. (See Fayer, Charles, assignor.)
Wappler Electric Company. (See Wappler, Reinhold H., assignor.)
Wappler, Reinhold H., Yonkers, N. Y., assignor to Wappler Electric Company, Inc. Multiphase-slow-sine-wave producer. No. 1,338,269; Apr. 27; v. 273; p. 690.
Wappler, Reinhold H., assignor to Wappler Electric Company, Inc., Yonkers, N. Y. Electric machine. No. 1,354,591; Oct. 5; v. 279; p. 29.
Waraxa, Peter, *et al.* (See Wilina, Theodor J., assignor.)
Warburton, Frank G., Montreal, Quebec, Canada. Controlling means for electric motors. No. 1,335,857; Mar. 30; v. 272; p. 819.
Warburton, Frank G., Manchester, England. Controlling means for electric motors. No. 1,337,573; Apr. 20; v. 273; p. 488.
Warburton, Frank G., London, England. Electric switch. No. 1,363,938; Dec. 28; v. 281; p. 720.
Wärd, Albert. (See Wärd, Karl and A.)
Ward, Albert, Hastings, Fla. Contents-ejector for boxes. No. 1,332,420; Mar. 2; v. 272; p. 47.
Ward, Albert H. (See Williams, E. A., and Ward.)
Ward, Alexander L., New York, N. Y. Bending device for strap-fasteners. No. 1,354,150; Sept. 28; v. 278; p. 619.
Ward, Arthur J., Duluth, Minn. Receptacle. No. 1,345,568; July 6; v. 276; p. 48.
Ward, Benjamin M., and H. G. Smith, Fayetteville, N. C. Fire-basket. No. 1,336,766; Apr. 13; v. 273; p. 261.
Ward Carpenter and Company. (See Ruge, Bernard A., assignor.)
Ward, Charles A., Mount Vernon, N. Y. Motor-support. No. 1,332,240; Mar. 2; v. 272; p. 12.
Ward, Charles A., Mount Vernon, N. Y. Steering-gear. No. 1,341,349; May 25; v. 274; p. 714.
Ward, Charles W. (See Clark, T. E., and Ward, assignors.)
Ward, Charles W., Detroit, Mich. Means for automatically controlling trains. No. 1,362,376; Dec. 14; v. 281; p. 325.
Ward, Edward E., Chicago, Ill. Fuel-saving device. No. 1,352,043; Sept. 7; v. 278; p. 64.
Ward, Everett N., West Monkton, Ontario, Canada. Animal-halter-releasing device. No. 1,357,133; Oct. 26; v. 279; p. 667.
Ward, F. M., L. C. Bygrave, and H. J. Herink, assignors to The Relay Automatic Telephone Company, Limited, London, England. Automatic telephone system. No. 1,359,940; Nov. 23; v. 280; p. 687.
Ward, Frank, assignor to The Pullman Company, Chicago, Ill. Rivet-sorting table. No. 1,333,233; Mar. 9; v. 272; p. 252.
Ward, Fred J., Long Beach, assignor to L. Sutter, San Francisco, Calif. Gas floor-heater. No. 1,334,005; Mar. 16; v. 272; p. 458.
Ward, Jabez G. C., *et al.*, executors. (See Stoute, Richard A.)
Ward, James C., Little Rock, Ark. Whistle. No. 1,342,315; June 1; v. 275; p. 137.
Ward, John, Blackburn, England. Constant-mesh change-speed gear. No. 1,333,952; Mar. 16; v. 272; p. 448.
Wärd, Karl and A., Stockholm, Sweden. Centrifugal separator. No. 1,363,699; Dec. 28; v. 281; p. 673.
Ward Leonard Electric Company. (See Kebler, Leonard, assignor.)
Ward Leonard Electric Company. (See Schwagermann, William, assignor.)
Ward, Orin W., New York, N. Y. Block toy building. No. 1,337,171; Apr. 13; v. 273; p. 338.
Ward Pump Company. (See Johnson, O. W., and Milne, assignors.)
Ward, Randolph G., assignor to Independent Mines Smelting Company, Inc., New York, N. Y. Smelting-furnace. No. 1,348,525; Aug. 3; v. 277; p. 76.
Ward, Randolph G., New York, N. Y., and W. R. Ward, Bethlehem, Pa., assignors, by direct and mesne assignments, to Independent Mines Smelting Company, Inc., New York, N. Y. Smelting-furnace. No. 1,351,451; Aug. 31; v. 277; p. 881.
Ward, Robert J., Philadelphia, Pa. Electrolier structure. No. 1,362,206; Dec. 14; v. 281; p. 292.
Ward, S. Mortimer, Jr. (See Hewett, R. J., and Ward.)

Digitized by Google

Ward, Timothy F., Earleys, N. C. Barrel-head machine. No. 1,351,934; Sept. 7; v. 278; p. 44.
Ward, Wallace E. (See Ingle, A. H., and Ward.)
Ward, Weseley. (See Standley, Melvin H., assignor.)
Ward, William G., Bath, England. Apparatus for cutting and slicing. No. 1,360,480; Nov. 30; v. 280; p. 661.
Ward, William R. (See Ward, Randolph G., and W. R.)
Ward, Willis C., Orchard Lake, Mich. Boat-sail. No. 1,348,912; Aug. 10; v. 277; p. 203.
Ward, Willis C., Orchard Lake, Mich. Hose-supporter. No. 1,358,902; Nov. 16; v. 280; p. 439.
Wardenburg, Frederic A., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Manufacturing fibrous materials and particularly guncotton. No. 1,355,197; Oct. 12; v. 279; p. 201.
Warder, Joseph, assignor to Morgan & Wright, Walkerville, Ontario, Canada. Chuck. No. 1,356,574; Oct. 26; v. 279; p. 557.
Wardin, Halford B., Rochester, N. Y. Pen. No. 1,345,044; June 29; v. 275; p. 918.
Wardrip, Carrie. (See Powell, Walter E., assignor.)
Wardwell, George W., assignor, by mesne assignments, to The Norwalk Iron Works, South Norwalk, Conn. Plate-valve. No. 1,359,006; Nov. 16; v. 280; p. 459.
Ware, Carl E., Manchester, N. H. Pitman shell-roller. No. 1,359,771; Nov. 23; v. 280; p. 653.
Ware, Charles E., *et al.* (See Traywick, Walter F., assignor.)
Ware, Fred S., Fulton, N. Y. Fuel-saving and speed-increasing attachment for engines. No. 1,352,709; Sept. 14; v. 278; p. 229.
Ware, Joseph L., Minneapolis, Minn. Extensible automobile. No. 1,342,139; June 1; v. 275; p. 103.
Ware, Joseph L., Minneapolis, Minn. Casting. No. 1,343,017; June 8; v. 275; p. 329.
Ware, Layton. (See Ogden, T., and Ware.)
Ware, Nelson, Milbank, S. D. Steering mechanism for tractors. No. 1,334,421; Mar. 23; v. 272; p. 583.
Ware, Thomas F., Salt Lake City, Utah. Demountable-rim structure. No. 1,333,518; Mar. 9; v. 272; p. 306.
Waream, Charles E. (See Braley, C. L., and Waream.)
Waream, Charles E., Cincinnati, and D. H. Benjamin, Cleveland Heights, assignors to The American Laundry Machinery Company, Norwood, Ohio. Shirt-folding table. No. 1,351,079; Aug. 31; v. 277; p. 807.
Wareham, Percy, and J. G. McDowell, Sharon, Pa. Wrench. No. 1,330,666; Feb. 10; v. 271; p. 278.
Warfield, Aaron N., London, Ontario, Canada. Freight-car construction. No. 1,330,415; Feb. 10; v. 271; p. 231.
Warfield, Aaron N., London, Ontario, Canada. Draft-rigging. No. 1,353,101; Sept. 14; v. 278; p. 306.
Warfield, Aaron N., London, Ontario, Canada. Doorway construction for cars. No. 1,353,102; Sept. 14; v. 278; p. 306.
Warga, Kalman, assignor to Metallograph Corporation, New York, N. Y. Decorating metal surfaces. No. 1,346,475; July 13; v. 276; p. 288.
Warga, Louis, Chicago, Ill. Car-step. No. 1,334,980; Mar. 30; v. 272; p. 748.
Waring, Swinton B., Wallingford, assignor to The Waring-Underwood Company, Philadelphia, Pa. Expansion-joint strip. No. 1,328,107; Jan. 13; v. 270; p. 291.
Waring-Underwood Company, The. (Waring, Swinton B., assignor.)
Warlick, Charles D., Salisbury, N. C. Lock. No. 1,332,784; Mar. 2; v. 272; p. 116.
Warme, Ivar F. (See Taliaferro, J. C., and Warme.)
Warme, Ivar F., assignor to Continental Can Company, Incorporated, Syracuse, N. Y. Can-end clencher. No. 1,329,259; Jan. 27; v. 270; p. 574.
Warme, Ivar F., assignor to Continental Can Company, Inc., Syracuse, N. Y. Can-closing machine. No. 1,332,785; Mar. 2; v. 272; p. 117.
Warme, Ivar F., and R. A. Blood, assignors to Continental Can Company, Incorporated, Syracuse, N. Y. Marking device for can-covers. No. 1,329,941; Feb. 3; v. 271; p. 112.
Warme, Ivar F., and R. A. Blood, assignors to Continental Can Company, Incorporated, Syracuse, N. Y. Packer for filled-can-closing machines. No. 1,341,487; May 25, v. 274; p. 741.
Warmisham, Arthur, assignor to Taylor, Taylor & Hobson, Ltd., Leicester, England. Lens. No. 1,361,207; Dec. 7; v. 281; p. 45.
Warm-O-Suit Corporation. (See Sollen, Adam, assignor.)
Warmoth, George W., Indianapolis, Ind. Wood-block paving. No. 1,351,546; Aug. 31; v. 277; p. 900.
Warmoth, George W., Indianapolis, Ind. Roadway-reinforcement. No. 1,358,042; Nov. 9; v. 280; p. 222.
Warn, Benjamin M. (See Ritter and Warn.)
Warne, Frederick C., Mansfield, Ohio. Lock-nut. (Reissue.) No. 14,928; July 27; v. 276; p. 736.
Warne, Frederick C., assignor to Roderick Lean Manufacturing Company, Mansfield, Ohio. Cultivator. No. 1,327,413; Jan. 6; v. 270; p. 99.
Warne, Frederick C., assignor to Roderick Lean Manufacturing Company, Mansfield, Ohio. Disk harrow. No. 1,344,159; June 22; v. 275; p. 680.
Warnecke, Gustav A., New York, N. Y. Seed-planting gage. No. 1,357,013; Oct. 26; v. 279; p. 643.
Warneke, William E (See Morrison, Alfred J., assignor.)
Warner, Arthur W., Media, Pa., assignor to The American Gas Company of New Jersey, Camden, N. J. Method and apparatus for cooling gas. No. 1,362,207; Dec. 14; v. 281; p. 292.
Warner, Burt M., Chicago, Ill. Door-operating mechanism. No. 1,350,688; Aug. 24; v. 277; p. 670.
Warner, Douglas K., New Haven, Conn. Snow-removal apparatus. No. 1,327,645; Jan. 13; v. 270; p. 204.
Warner, Earnest A., Beach, N. D. Spark-plug. No. 1,337,169; Apr. 13; v. 273; p. 388.
Warner, Emil, Chicago, Ill. Apparatus for forming metallic tubes. No. 1,343,946; June 22; v. 275; p. 640.
Warner, Florence M., New York, N. Y. Color photography. No. 1,358,802; Nov. 16; v. 280; p. 419.
Warner, Frank E. (See Warner, Percy de F., and F. E.)
Warner, Frederick D., and W. E. Hays, assignors to The Chilcote-Sargent Company, Cleveland, Ohio. Method of and machine for applying corner-clips. No. 1,355,872; Oct. 19; v. 279; p. 373.
Warner Gear Company. (See White, Samuel O., assignor.)
Warner, Harvey J., Takoma Park, D. C. Exerciser. No. 1,333,005; Mar. 9; v. 272; p. 210.
Warner, Irving. (See Applegate, Herlin M., assignor.)
Warner, Josiah W., and H. H. Weemhoff, Grand Rapids, Mich.; said Weemhoff assignor to said Warner. Building construction and joint. No. 1,362,764; Dec. 21; v. 281; p. 450.
Warner, Laurence E. (See Mooers, B. M., and Warner.)
Warner, Leroy J., Fostoria, Ohio. Inking-roll truck. No. 1,350,127; Aug. 17; v. 277; p. 513.
Warner Manufacturing Company. (See Cadman, Addi B., assignor.)
Warner, Martin, and C. Whetstone, Akron, Ohio. Window-shade attachment. No. 1,343,859; June 15; v. 275; p. 558.
Warner, P. de F., and F. E., Waterbury, assignors to Scovill Manufacturing Company, New Haven, Conn. Toggle-button. No. 1,353,439; Sept. 21; v. 278; p. 481.
Warner, Stewart G., Lynn, Mass. Clutch-lever stop for motor-vehicles. No. 1,344,602; June 22; v. 275; p. 769.
Warner & Swasey Company, The. (See Burger, W. J., and Lange, assignors.)
Warner & Swasey Company, The. (See Fecker, Gottlieb L., assignor.)
Warner, Thomas C., Wichita, Kans. School-desk. No. 1,361,422; Dec. 7; v. 281; p. 89.
Warner, William L. (See Reichel and Warner.)
Warr, Harold G., Park Ridge, assignor to The P. & M. Company, Chicago, Ill. Rail-anchor. No. 1,350,689; Aug. 24; v. 277; p. 670.
Warren, Alanson C., assignor of one-half to V. M. Warren, Stockton, Calif. Landing device for aeroplanes. No. 1,349,242; Aug. 10; v. 277; p. 268.
Warren, Charles H., Atlanta, Ga., assignor to Draper Corporation, Hopedale, Mass. Loom feeler mechanism. No. 1,332,699; Mar. 2; v. 272; p. 100.
Warren Clock Company. (See Warren, Henry E., assignor.)
Warren, Clyde W., Sauk Rapids, Minn. Porch-shade. No. 1,336,325; Apr. 6; v. 273; p. 117.
Warren Featherbone Company, The. (See Rothfuchs, Louis, assignor.)
Warren, Frank O., Manchester, N. H. Key. No. 1,333,887; Mar. 16; v. 272; p. 436.
Warren, Frank R., Chicago, Ill. Steering-wheel lock. No. 1,349,027; Aug. 10; v. 277; p. 226.
Warren, Frank R., assignor to Simplex Corporation, Chicago, Ill. Lock for motor-vehicles. No. 1,330,926; Feb. 17; v. 271; p. 396.
Warren, George E., Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Shoe. No. 1,346,146; July 13; v. 276; p. 223.
Warren, George E., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Wooden sole for boots and shoes and making same. No. 1,355,436; Oct. 12; v. 279; p. 247.
Warren, Henry E., assignor to Warren Clock Company, Ashland, Mass. Electrically-driven clock. No. 1,334,422; Mar. 23; v. 272; p. 583.
Warren, Henry E., assignor to Warren Clock Company, Ashland, Mass. Indicator for electrically-driven clocks. No. 1,334,423; Mar. 23; v. 272; p. 583.
Warren, Henry E., and W. M. Wheildon, assignors to The Lombard Governor Company, Ashland, Mass. Apparatus for treating metal objects. No. 1,334,335; Mar. 23; v. 272; p. 566.
Warren & Irrgang Company, The. (See Irrgang, William F., assignor.)
Warren, James J., Seattle, Wash. Excavator. No. 1,345,296; June 29; v. 275; p. 967.
Warren, James W., Alexandria, Va. Bolting-up device. No. 1,348,339; Aug. 3; v. 277; p. 41.
Warren, John J., assignor to Harmon Paper Company, Brownville, N. Y. Wall-paper and making it. No. 1,344,570; June 22; v. 275; p. 762.
Warren, John J., assignor to Harmon Paper Company, Brownville, N. Y. Paper-making apparatus. No. 1,344,603; June 22; v. 275; p. 769.
Warren, John M. (See Gore, Jacob L., assignor.)

Digitized by Google

Alphabetical list of patentees—Continued.

Warren, John R., Marshalltown, Iowa. Mechanical movement. No. 1,350,250; Aug. 17; v. 277; p. 537.
Warren, P. R., Company. (See Locke, Edwin A., Jr., assignor.)
Warren, Robert. (See Waage, S. P., and Warren.)
Warren, Robert W. A. Katanning, Western Australia, Australia. Automatic clutch-differential especially for motor-cars. No. 1,348,673; Aug. 3; v. 277; p. 105.
Warren, Violet M. (See Warren, Alanson C., assignor.)
Warren Webster & Company. (See Fitts, J. L., and Billyeu, assignors.)
Warren Webster & Company. (See Pitts, James L., assignor.)
Warren, William F., Shelburn, Ind. Automobile-pump. No. 1,346,866; July 20; v. 276; p. 424.
Warren, William H., Youngstown, Ohio, assignor to The Realty Trust Company and R. C. Steese, trustees. Metal-casting apparatus. No. 1,336,767; Apr. 13; v. 273; p. 261.
Warren, William H., assignor to The Realty Trust Company and R. C. Steese, trustees, Youngstown, Ohio. Metal-casting. No. 1,336,768; Apr. 13; v. 273; p. 261.
Warrener, James, Sr., Fall River, Mass., assignor of one-half to J. Warrener, Jr., Washington, D. C. Pitman. No. 1,329,645; Feb. 3; v. 271; p. 56.
Warrenfeltz, Edward M., Funkstown, assignor of one-fourth to L. R. Yourtee, Hagerstown, and one-fourth to C. H. Dentler, Funkstown, Md. Grain-cleaner. No. 1,360,335; Nov. 30; v. 280; p. 832.
Warrenfeltz, Edward M., Funkstown, assignor of one-fourth to L. R. Yourtee, Hagerstown, and one-fourth to C. H. Dentler, Funkstown, Md. Grain-drier. No. 1,360,336; Nov. 30; v. 280; p. 833.
Warriner, Robert, assignor to Bethlehem Shipbuilding Corporation, Quincy, Mass. Expansion-joint. No. 1,354,706; Oct. 5; v. 279; p. 52.
Warrington, John E., Brooklyn, Ill. Poultry-roost. No. 1,328,861; Jan. 27; v. 270; p. 499.
Warrick, Charles F., assignor to United States Window Glass Company, Morgantown, W. Va. Method of opening the shade ends of hand-blown glass rollers. No. 1,351,710; Aug. 31; v. 277; p. 931.
Warshauer, Alexander, Cambridge, Mass. Blotting attachment for check-books, &c. No. 1,339,987; May 11; v. 274; p. 317.
Wartchow, George P., Minot, N. D. Saddle for mains. No. 1,354,359; Sept. 28; v. 278; p. 661.
Warth, Nathaniel G., assignor to The Climax Rubber Company, Columbus, Ohio. Mold for molding rubber tubes. No. 1,361,208; Dec. 7; v. 281; p. 45.
Wartman, Alven L., Oakland, Calif. Rail-joint. No. 1,344,604; June 22; v. 275; p. 769.
Warwick, Clarence E., Whitetail, Mont. Heater for carbureters. No. 1,352,854; Sept. 14; v. 278; p. 258.
Warwick, George, Seven Kings, England. Wheel-rim and manufacturing same. No. 1,359,552; Nov. 23; v. 280; p. 610.
Wassler, Paul C., *et al.* (See Biette, Henry C., assignor.)
Wasenska, Henry W., Collinsville, Ill. Vacuum-cleaning brush. No. 1,345,424; July 6; v. 276; p. 19.
Washburn-Crosby Company. (See Bakke, Julius O., assignor.)
Washburn Crosby Company. (See Harding, Henry O. B., assignor.)
Washburn Crosby Company. (See Tschache, Edward D., assignor.)
Washburn, Edwin C., Englewood, N. J. Draft mechanism. No. 1,363,939; Dec. 28; v. 281; p. 720.
Washburn, Edwin C., Englewood, assignor of one-third to R. S. Blair, South Orange, N. J. Apparatus and art for handling coal and the like. No. 1,347,000; July 20; v. 276; p. 451.
Washburn, Elmer J., Rochester, N. Y. Tympan-gage. No. 1,354,527; Oct. 5; v. 279; p. 16.
Washburn, Frank S., Rye, assignor to American Cyanamid Company, New York, N. Y. Nitrogenous phospbatic material and producing same. No. 1,355,369; Oct. 12; v. 279; p. 235.
Washburn, Frank S., Rye, assignor to American Cyanamid Company, New York, N. Y. Process of and apparatus for producing phosphoric acid and compounds of the same. No. 1,359,211; Nov. 16; v. 280; p. 497.
Washburn, Howard L., assignor to C. S. Ballard, assignee, Springfield, Mass. Universal joints. No. 1,346,776; July 13; v. 276; p. 348.
Washburn, Thomas V., assignor of one-half to P. J. Murray, Carbondale, Pa. Vehicle-wheel. No. 1,354,269; Sept. 28; v. 278; p. 643.
Washburne, Alva C., *et al.* (See Hammond, Grant, assignor.)
Washburne, William H., assignor to Self Seating Valve Company, Chicago, Ill. Valve. No. 1,338,759; May 4; v. 274; p. 21.
Washer, Edward L., Dunmore, Pa. Fluid-pressure transmission. No. 1,363,068; Dec. 21; v. 281; p. 511.
Washington, Bowden. (See Cutting, F., and Washington.)
Washington, Earnest, Faribault, Minn. Hotel or restaurant cabinet. No. 1,348,461; Aug. 3; v. 277; p. 64.
Washington, Elwood, Hammond, Ind. Vacuum-cabinet. No. 1,347,194; July 20; v. 276; p. 488.
Washington, George W., Columbus, Miss. Float-operated circuit-closer. No. 1,343,947; June 22; v. 275; p. 640.
Washington Machinery and Supply Company, *et al.* (See Seymour, Mark L., assignor.)
Washington, Ruffus G., Chicago, Ill. Rail joint and support. No. 1,353,868; Sept. 28; v. 278; p. 561.
Washino, Uhachi, Nagoya, Japan. Steam-trap. No. 1,338,541; Apr. 27; v. 273; p. 741.
Wasisco, Michael N., West Frankfort, Ill. Phonograph-record envelop. No. 1,360,836; Nov. 30; v. 280; p. 931.
Wasmansdorff, Otto F., Lewistown, Mont. Theater-chair. No. 1,363,940; Dec. 28; v. 281; p. 720.
Wason, Georgi E., assignor of one-half to P. Hawrylink, Sault Ste. Marie, Ontario, Canada. Spring-wheel. No. 1,330,504; Feb. 10; v. 271; p. 248.
Wason, Georgi E., assignor of one-half to P. Hawryluk, Sault Ste. Marie, Ontario, Canada. Sweeping-machine. No. 1,356,180; Oct. 19; v. 279; p. 434.
Wassell, Clifford R., assignor to Conlon Electric Washer Company, Inc., Chicago, Ill. Electrical connector. No. 1,336,801; Apr. 13; v. 273; p. 268.
Wassell, Clifford R., assignor to Conlon Electric Washer Company, Inc., Chicago, Ill. Electric heating element. No. 1,344,282; June 22; v. 275; p. 705.
Wasser, Joseph C., Caseyville, Ill. Paper-holder. No. 1,338,057; Apr. 27; v. 273; p. 650.
Wasserfallen, Charles F., assignor to Detroit Tire Carrier Co., Detroit, Mich. Spare-rim holder. No. 1,357,431; Nov. 2; v. 280; p. 44.
Wasserlein, Froes Company. (See Wasserlein, Victor E., assignor.)
Wasserlein, Victor E., New York, N. Y., assignor to Wasserlein, Froes Company, Inc. Carbureter needle-valve. No. 1,347,922; July 27; v. 276; p. 690.
Wassill, Constant, Rochester, N. Y. Heel-clamp. No. 1,355,114; Oct. 5; v. 279; p. 130.
Wasson Piston Ring Company. (See Littman, Zeno, assignor.)
Waszkiewicz, Stanley, Passaic, N. J. Drier. No. 1,345,523; July 6; v. 276; p. 38.
Watanabe, Konosuke, Edmonton, Alberta, Canada. Lamp-adjuster. No. 1,340,195; May 18; v. 274; p. 423.
Watanabe, Masanori. (See Tamura and Watanabe.)
Watanabe, Bunzo, assignor of one-tenth to H. D. Moyle and P. H. Ray, Salt Lake City, Utah. Coke-rake. No. 1,349,176; Aug. 10; v. 277; p. 255.
Watanabe, Riichi, Tokyo, Japan. Respirator. No. 1,331,601; Feb. 24; v. 271; p. 543.
Waterbury Battery Company, The. (See Schoenmehl, C. B., and Martus, assignors.)
Waterbury, Bert J., Walnut Grove, Calif. Barrel-hook. No. 1,334,510; Mar. 23; v. 272; p. 599.
Waterbury Clock Co. (See Horn, Ernest H., assignor.)
Waterbury Clock Co. (See Linden, John P., assignor.)
Waterbury Clock Co. (See Mathes, Gunther E. H., assignor.)
Waterbury Clock Co. (See Smith, William J., assignor.)
Waterbury Farrel Foundry and Machine Company, The. (See Candee, Zenas P., assignor.)
Waterbury Farrel Foundry and Machine Company, The. (See Pierson, William D., assignor.)
Waterbury Farrel Foundry and Machine Company, The. (See Wilcox, Richard L., assignor.)
Waterfield, James, assignor to Quaker Lace Company, Philadelphia, Pa. Fabric. No. 1,335,627; Mar. 30; v. 272; p. 869.
Waterhouse, Ella C., Aurora, Ill. Arithmetical card game. No. 1,354,707; Oct. 5; v. 279; p. 52.
Waterhouse, George B., Buffalo, N. Y. Manufacture of steel. No. 1,352,710; Sept. 14; v. 278; p. 229.
Waterhouse, Harold D., Hartford, Conn. Primer for internal-combustion engines. No. 1,339,080; May 4; v. 274; p. 80.
Waterhouse, Leslie V., Queenstown, Tasmania, Australia. Apparatus for the treatment of sulfid ores. No. 1,346,286; July 13; v. 276; p. 251.
Waterhouse, Norman, Croydon, New South Wales, Australia. Wedge-lock buckle for leaf-springs. No. 1,352,488; Sept. 14; v. 278; p. 184.
Waterloo, John, New Eagle, assignor to Window Glass Machine Company, Pittsburgh, Pa. Glass-cutting machine. (Reissue.) No. 14,788; Jan. 6; v. 270; p. 136.
Waterman, Frank N. (See Weagant, R. A., and Waterman.)
Waterman, Lewis E., assignor to Emerson-Brantingham Company, Rockford, Ill. Power-lift plow. No. 1,349,028; Aug. 10; v. 277; p. 226.
Waterous, Charles P., assignor to Waterous Engine Works Company, St. Paul, Minn. Rotary pump. No. 1,361,423; Dec. 7; v. 281; p. 89.
Waterous Engine Works Company. (See Waterous, Charles P., assignor.)
Waters, Andrew M., Cincinnati, Ohio. Amusement device. No. 1,345,647; July 6; v. 276; p. 62.
Waters, Archibald D. (See Parsons, S. W., and Waters.)
Waters, Archibald D., assignor to The Stanley Works, New Britain, Conn. Lid-supporting device. No. 1,352,711; Sept. 14; v. 278; p. 229.
Waters, Archbald D., assignor to The Stanley Works, New Britain, Conn. Door-holder. No. 1,358,349; Nov. 9; v. 280; p. 283.

Digitized by Google

Waters, Charles B., New York, N. Y. Electrode-holder for use in electric-arc welding or cutting. No. 1,332,241; Mar. 2; v. 272; p. 12.
Waters, Edward T., Omaha, Nebr. Printing-press. No. 1,360,063; Nov. 23; v. 280; p. 711.
Waters, Frank W. (See Rea and Waters.)
Waters, Henry, Bisbee, Ariz. Shoe-stretcher. No. 1,340,994; May 25; v. 274; p. 645.
Waters, James P., Detroit, assignor, by mesne assignments, to Forge Products Corporation, Ann Arbor, Mich. High-speed steel and forming and forging same. No. 1,345,045; June 29; v. 275; p. 918.
Waters, Sydney J., Esher, England. Reproducing manuscript, typewritten or printed matter, drawings, photographs, or the like. No. 1,327,931; Jan. 13; v. 270; p. 258.
Wathen, Inez M. (See Wathen, Ivan B., assignor.)
Wathen, Ivan B., Strattonville, assignor to I. M. Wathen, Showers, Pa. Mining implement. No. 1,349,641; Aug. 17; v. 277; p. 420.
Watkins, Branch, Newport News, Va. Signal device for cars. No. 1,334,424; Mar. 23; v. 272; p. 584.
Watkins, Evan, assignor to The Columbian Hardware Company, Cleveland, Ohio. Screw-clamp. No. 1,328,862; Jan. 27; v. 270; p. 499.
Watkins, Everett A., Wichita, Kans. Seed-grader. No. 1,349,306; Aug. 10; v. 277; p. 281.
Watkins, Frank M., Cincinnati, Ohio. Laundry-truck. No. 1,330,927; Feb. 17; v. 271; p. 397.
Watkins, Frank M., Cincinnati, Ohio. Drying-tumbler. No. 1,355,293; Oct. 12; v. 279; p. 220.
Watkins, Parke H., assignor to William Wrigley, Jr., Company, Chicago, Ill. Gum sheeting and scoring machine. No. 1,357,665; Nov. 2; v. 280; p. 88.
Watkins, Leigh, Oakland, Calif. Differential. No. 1,328,217; Jan. 13; v. 270; p. 312.
Watkins, William A. (See Gamble, A. A., and Watkins.)
Watkins, William F., assignor of one-half to H. B. Perene, Seattle, Wash. Rapid-fire gun. No. 1,337,971; Apr. 20; v. 273; p. 565.
Watling, Arthur J. (See Peating, H. W., and Watling.)
Watling, John B., Chicago, Ill. Caster. No. 1,353,195; Sept. 21; v. 278; p. 385.
Watres, Reyburn, Scranton, Pa. Lubricating system for steam-engines. No. 1,342,077; June 1; v. 275; p. 91.
Watrous, Agnes B., executrix. (See Watrous, Edward L.)
Watrous, Earl G., Chicago, Ill. Slow-closing faucet. No. 1,327,000; Jan. 6; v. 270; p. 23.
Watrous, Earl G., Chicago, Ill. Flushing apparatus. No. 1,333,646; Mar. 16; v. 272; p. 391.
Watrous, Earl G., Chicago, Ill. Lavatory. No. 1,335,946; Apr. 6; v. 273; p. 45.
Watrous, Earl G., Chicago, Ill. Closet. No. 1,363,027; Dec. 21; v. 281; p. 503.
Watrous, Edward L., deceased, El Paso, Tex., A. B. Watrous, executrix. Method and apparatus for coating pipes, bars, angles, and the like. No. 1,346,618; July 13; v. 276; p. 316.
Watrous, Edward L., deceased, El Paso, Tex.; A. B. Watrous, executrix, Evanston, Ill. Coating apparatus and method. No. 1,350,481; Aug. 24; v. 277; p. 630.
Watson, A. Miller, Bellefontaine, Ohio. Collapsible box. No. 1,354,928; Oct. 5; v. 279; p. 96.
Watson, Alexander, Atlantic, assignor of one-half to W. G. Mitchell, Malden, Mass. Terminal for pneumatic-despatch-tube systems. No. 1,347,136; July 20; v. 276; p. 477.
Watson, Annie H., executrix. (See Watson, Thomas T. and J. W.)
Watson, Chauncey R., *et al.* (See Hachmann, F., and Wilson, assignors.)
Watson, Chauncey R., *et al.* (See Hachmann, Frederick, assignor.)
Watson, Earle F. (See Newitt, Edward J. D., assignor.)
Watson, Edward A., Greenville, S. C. Spinning apparatus. No. 1,350,905; Aug. 24; v. 277; p. 710.
Watson, Edward L., Dallas, S. D. Fly-poisoning device. No. 1,328,936; Jan. 27; v. 270; p. 514.
Watson, Frank C., Des Moines, Iowa, assignor to Avery Company, Peoria, Ill. Tractor-plow. No. 1,362,277; Dec. 14; v. 281; p. 306.
Watson, Frank L., Los Angeles, Calif. Parachute for aeroplanes. No. 1,332,150; Feb. 24; v. 271; p. 645.
Watson, George W., Boston, Mass. Child's vehicle. No. 1,341,768; June 1; v. 275; p. 31.
Watson, George W., Boston, Mass. Non-slip heel for footwear. No. 1,350,190; Aug. 17; v. 277; p. 526.
Watson, Grover C., Mineral Wells, Tex. Paint. No. 1,347,311; July 20; v. 276; p. 512.
Watson, Harry W., Memphis, Tenn. Wrench. No. 1,330,151; Feb. 10; v. 271; p. 182.
Watson, Henry, Newport, Wales. Device for sharpening or honing ordinary or safety razors, blades, or other light cutting-tools. No. 1,340,509; May 18; v. 274; p. 482.
Watson, Hiram, Peoria, Ill. Window. No. 1,360,481; Nov. 30; v. 280; p. 861.
Watson, Hugh C., Denver, Colo. Surveying instrument. No. 1,348,258; Aug. 3; v. 277; p. 26.
Watson, James, Marinette, Wis. Elbow. No. 1,333,195; Mar. 9; v. 272; p. 245.
Watson, James A., Silver Spring, Md. Clutch. No. 1,328,022; Jan. 13; v. 270; p. 276.
Watson, James A., Silver Spring, Md. Oil-purifying apparatus for hydrocarbon-engines. No. 1,359,453; Nov. 16; v. 280; p. 545.
Watson, James B., Detroit, Mich. Bearing. No. 1,327,391; Jan. 6; v. 270; p. 79.
Watson, John W. (See Watson, Thomas T. and J. W.)
Watson, John W., Wayne, Pa. Motion-controlling mechanism. No. 1,345,814; July 6; v. 276; p. 95.
Watson, Leonard A., Brooklyn, assignor to The Safety Car Heating and Lighting Company, New York, N. Y. System of electrical distribution. No. 1,353,869; Sept. 28; v. 278; p. 561.
Watson, Leonard A., Brooklyn, assignor to The Safety Car Heating and Lighting Company, New York, N. Y. System of electrical distribution. No. 1,353,870; Sept. 28; v. 278; p. 562.
Watson, Oliver E., Dayton, Ohio. Sanitary bottle-crate. No. 1,341,869; June 1; v. 275; p. 50.
Watson Products Corporation. (See Sherwood, William E., assignor.)
Watson, Robert B., and J. C. Kitterman, Corydon, Ind. Fly-exit for screen doors and windows. No. 1,343,069; June 8; v. 275; p. 339.
Watson, Thomas. (See Scarborough, Donald S., assignor.)
Watson, Thomas S., Milwaukee, Wis. Controller for hoisting apparatus. No. 1,358,128; Nov. 9; v. 280; p. 239.
Watson, Thomas T., deceased, and J. W. Watson, Wayne, Pa.; A. H. Watson, executrix. Mileage-indicator for tires. No. 1,343,535; June 15; v. 275; p. 493.
Watson Wagon Company. (See Keesler, Clyde C., assignor.)
Watson, Ward. (See Horn, M. J., and Watson.)
Watson, Winfield S., Cleveland, Ohio. Demountable rim. No. 1,358,803; Nov. 16; v. 280; p. 419.
Watson, Wesley W., Carlisle, Ark. Clutch-release and rear-brake pedal. No. 1,335,628; Mar. 30; v. 272; p. 870.
Watson, William, Portland, Oreg. Bucket-plow. No. 1,339,371; May 4; v. 274; p. 133.
Watson, William F., assignor of one-half to F. W. Hout, Olean, N. Y. Hose-supporter. No. 1,340,745; May 18; v. 274; p. 527.
Watson, William H. (See Bell, W. T., Watson, and Jones.)
Watt, Annie S., Scarsdale, N. Y. Dispensing device. No. 1,335,716; Mar. 30; v. 272; p. 887.
Watt, William H., Napier, New Zealand. Means for mooring airships. No. 1,356,245; Oct. 19; v. 279; p. 447.
Watters, Joseph H., Ensley, Ala. Plate-valve for blowing-engines and the like. No. 1,330,163; Feb. 10; v. 271; p. 173.
Watterson, Wilfred W., Bishop, Calif. Depositing soda, &c. No. 1,350,128; Aug. 17; v. 277; p. 513.
Watterson, William A., Macquarie River, via Euchareena, New South Wales, Australia. Fan for use in spark-arresting and smoke-consuming devices. No. 1,350,191; Aug. 17; v. 27; p. 526.
Watts, Ben, assignor of forty-nine per cent. to W. P. Godfrey, Jarbidge, Nev. Pipe-wrench. (Reissue.) No. 14,791; Jan. 13; v. 270; p. 320.
Watts, Eldorus B., Alcester, S. D. Road-guide. No. 1,345,974; July 6; v. 276; p. 128.
Watts, Fay G. (See Quick, Elmer, assignor.)
Watts, Frank E., Detroit, Mich., assignor to Hupp Motor Car Corporation, Richmond, Va. Engine-starter. No. 1,342,478; June 8; v. 275; p. 222.
Watts, Henry O., Washington, D. C. Flying-machine. No. 1,331,299; Feb. 17; v. 271; p. 465.
Watts, Henry O., Washington, D. C. Steering mechanism for aeroplanes. No. 1,331,300; Feb. 17; v. 271; p. 465.
Watts, Robert M., Rock Island, Ill. Buoyant belt. No. 1,341,529; May 25; v. 274; p. 749.
Watts, Thomas. (See Townsley, Frederick A., assignor.)
Wattson, Osbourne. (See Minor, F. W., and Wood, assignors.)
Waugh Draft Gear Company. (See Davidson, Arthur C., assignor.)
Waugh, Edward H., Seattle, Wash. Slitting-knife for fish-dressing machines. No. 1,361,353; Dec. 7; v. 281; p. 75.
Waugh, Edward H., assignor to Smith Cannery Machines Co., Seattle, Wash. Belly-finning head for fish-cleaning machines. No. 1,337,375; Apr. 20; v. 273; p. 452.
Waugh, Edward H., assignor to Smith Cannery Machines Co., Seattle, Wash. Bushing. No. 1,356,101; Oct. 19; v. 279; p. 418.
Waugh, Edward H., assignor to Smith Cannery Machines Co., Seattle, Wash. Pincers for fish-butchering machine. No. 1,360,064; Nov. 23; v. 280; p. 711.
Waugh, James M., Chicago, Ill. Draft-gear bracket. No. 1,353,871; Sept. 28; v. 278; p. 562.
Waugh, James M., Chicago, Ill. Draft and buffing gear. No. 1,360,605; Nov. 30; v. 280; p. 885.
Waukesha Motor Co. (See Herning, Harry L., assignor.)
Way, A. F., Company. (See Loring, W. C., and Jacobson, assignors.)
Way, Chauncey C. (See Carr, Samuel J., assignor.)
Way, Clarence J., and W. A., Cleveland, Ohio. Mechanical indicator. No. 1,352,855; Sept. 14; v. 278; p. 258.

Digitized by Google

Alphabetical list of patentees—Continued.

Way, Clifford M., Des Moines, Iowa. Screen. No. 1,345,569; July 6; v. 276; p. 48.
Way, Eugene W., Seattle, Wash. Show-case lock. No. 1,350,047; Aug. 17; v. 277; p. 496.
Way, Holroyd F., Oregon City, Oreg. Incandescent-lamp-protecting device. No. 1,345,466; July 6; v. 276; p. 27.
Way, John H., Philadelphia, Pa. Concealed or invisible butt-hinge. No. 1,336,174; Apr. 6; v. 273; p. 89.
Way, John H., Philadelphia, Pa. Pneumatic riveting-hammer. No. 1,340,196; May 18; v. 274; p. 423.
Way, John H., Philadelphia, Pa. Hinge. No. 1,345,524; July 6; v. 276; p. 39.
Way, Wilbur A. (See Way, Clarence J. and W. A.)
Wayland, Frank, Salem, Mass. Leather-working machine. No. 1,355,437; Oct. 12; v. 279; p. 248.
Wayne Manufacturing Company. (See Sargent, William H., assignor.)
Wayne Oil Tank and Pump Company. (See Baker, Linnaeus E., assignor.)
Wayne Oil Tank and Pump Company. (See Brandt, William F., assignor.)
Wayne Oil Tank & Pump Company. (See Eilers, Frank B., assignor.)
Wayne Specialty Manufacturing Corporation. (See Robin, Brock R., assignor.)
Waywell, Harry, Cleveland, Ohio. Window-cleaning device. No. 1,358,804; Nov. 16; v. 280; p. 420.
Wax, Josef. (See Tomaszak, Antoni, assignor.)
Weagant, Roy A., New York, N. Y., assignor to Radio Corporation of America. Radiosignaling apparatus. No. 1,336,898; Apr. 6; v. 273; p. 131.
Weagant, Roy A., New York, N. Y., assignor, by mesne assignments, to Radio Corporation of America. Apparatus for preventing static interference in radiosignaling. No. 1,353,002; Sept. 14; v. 278; p. 287.
Weagant, Roy A., New York, N. Y., assignor, by mesne assignments, to Radio Corporation of America. Radiosignaling apparatus. No. 1,356,751; Oct. 26; v. 279; p. 592.
Weagant, Roy A., New York, N. Y., and F. N. Waterman, Summit, N. J., assignors, by mesne assignments, to Radio Corporation of America. Radiosignaling apparatus. No. 1,356,752; Oct. 26; v. 279; p. 592.
Weagant, Roy A., Roselle, N. J., assignor, by mesne assignments, to Radio Corporation of America. Apparatus for radiosignaling. No. 1,338,889; May 4; v. 274; p. 44.
Weagant, Roy A., Roselle N. J., assignor, by mesne assignments, to Radio Corporation of America. Wireless signaling apparatus. No. 1,342,399; June 1; v. 275; p. 153.
Weant, Clarence H., Baltimore, Md. Printing-press chase. No. 1,347,312; July 20; v. 276; p. 512.
Weary, John, assignor of one-half to W. W. Littlehales, Mount Carmel, Pa. Car-coupling. No. 1,335,868; Apr. 6; v. 273; p. 31.
Weatherby, George, Elyria, Ohio. Lathe center and driver. No. 1,361,120; Dec. 7; v. 281; p. 28.
Weatherly, George B., San Francisco, Calif. Pipe and nut wrench. No. 1,356,948; Oct. 26; v. 279; p. 630.
Weatherly, Sidney M., and H. J. Stach; said Stach assignor to National Machine Company, Hartford, Conn. Roller adjustment for printing-presses. No. 1,337,574; Apr. 20; v. 273; p. 488.
Weathersby, Fred R., Houston, Tex. Drill. No. 1,336,006; Apr. 6; v. 273; p. 57.
Weathersby, John R., Middlesex, N. C. Farm-level. No. 1,346,619; July 13; v. 276; p. 316.
Weaver, Albert T., Joliet, E. W. D. Laufer, Arlington Heights, and E. von Wintzingerode, Chicago, Ill., assignors to The American Steel & Wire Company of New Jersey, Hoboken, N. J. Method of and apparatus for treating waste pickle liquor. No. 1,348,462; Aug. 3; v. 277; p. 65.
Weaver, Charles R., and A. G. Fleck, assignors to Pneumatic Concrete Machinery Corporation, New York, N. Y. Pneumatic conveyer. No. 1,360,160; Nov. 23; v. 280; p. 730.
Weaver Company. (See Weaver, Victor M., assignor.)
Weaver, Edwin N., Jersey City, N. J. Coal-handling machine. No. 1,351,593; Aug. 31; v. 277; p. 909.
Weaver, Fullerton S., *et al.*, trustees. (See Milliken, Foster, assignor.)
Weaver, Horace E., Bryan, Ohio. Variable-pitch propeller. No. 1,328,241; Jan. 13; v. 270; p. 317.
Weaver, Ira A., assignor to The Weaver Manufacturing Company, Springfield, Ill. Liquid-dispensing appliance. No. 1,332,276; Mar. 2; v. 272; p. 19.
Weaver, Ira A., assignor to Weaver Manufacturing Company, Springfield, Ill. Puller-clamp. No. 1,332,277; Mar. 2; v. 272; p. 19.
Weaver, Ira A., assignor to The Weaver Manufacturing Company, Springfield, Ill. Vehicle-wheel-rim attachment. No. 1,333,647; Mar. 16; v. 272; p. 392.
Weaver, Ira A., assignor to The Weaver Manufacturing Company, Springfield, Ill. Tire-changer. No. 1,341,727; June 1; v. 275; p. 22.
Weaver, Ira A., assignor to Weaver Manufacturing Company, Springfield, Ill. Tire-changing mechanism. No. 1,341,729; June 1; v. 275; p. 23.
Weaver, Ira A., Springfield, assignor, by mesne assignments, to Thorne Brothers, Incorporated, Chicago, Ill. Light-tractor gang-plow. No. 1,342,479; June 8; v. 275; p. 222.
Weaver, Ira A., and J. Sternaman, Jr., assignors to Weaver Manufacturing Company, Springfield, Ill. Tire-changing machine. No. 1,341,726; June 1; v. 275; p. 22.
Weaver, Ira A., and J. Sternaman, assignors to Weaver Manufacturing Company, Springfield, Ill. Tire-changing appliance. No. 1,341,728; June 1; v. 275; p. 23.
Weaver, Ira A., and J. Sternaman, assignors to Weaver Manufacturing Company, Springfield, Ill. Tire-removing appliance. No. 1,341,730; June 1; v. 275; p. 23.
Weaver, Ira A., and R. G. Stoehr, assignors to The Weaver Manufacturing Company, Springfield, Ill. Tire-casing spreader. No. 1,358,805; Nov. 16; v. 280; p. 420.
Weaver, James H., Aberdeen, Wash. Jar-holder. No. 1,346,732; July 13; v. 276; p. 339.
Weaver, John A., Baltimore, Md. Insulated tool. No. 1,343,101; June 8; v. 275; p. 345.
Weaver, Lennox G., Portland, Oreg. Course-indicator. No. 1,348,191; Aug. 3; v. 277; p. 11.
Weaver Manufacturing Company. (See Weaver, I. A., and Sternaman, assignors.)
Weaver Manufacturing Company, The. (See Weaver, I. A., and Stoehr, assignors.)
Weaver Manufacturing Company. (See Weaver, Ira A., assignor.)
Weaver, Paul S., Lebanon, Pa. Shock-absorber. No. 1,338,270; Apr. 27; v. 273; p. 690.
Weaver, Robert B., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Driving-axle for automobiles. No. 1,335,412; Mar. 30; v. 272; p. 829.
Weaver, Robert R., Columbus, Ohio. Manufacture of jaws for brake-rod connections. No. 1,347,137; July 20; v. 276; p. 477.
Weaver, S. Fullerton, *et al.*, trustees. (See Milliken, Foster.)
Weaver, Victor M., Harrisburg, Pa., assignor to Weaver Company. Electrolytic apparatus. No. 1,329,315; Jan. 27; v. 270; p. 583.
Weaver, William C., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,353,872; Sept. 28; v. 278; p. 562.
Weaver, William S., Houston, Tex. Tractor. No. 1,334,475; Mar. 23; v. 272; p. 592.
Webb, Arthur B., Watertown, Wis., assignor to W. N. Smith, Chicago, Ill. Tractor. No. 1,348,192; Aug. 3; v. 277; p. 11.
Webb, B., and W. A. Gardner, Pinetops, N. C. Wire-stretcher. No. 1,353,365; Sept. 21; v. 278; p. 417.
Webb, Benjamin F. (See Karl, A. J., and Webb.)
Webb, Edwin W. (See Barber, F. L., and Webb.)
Webb, Edwin W., assignor to Standard Car Truck Company, Chicago, Ill. Side bearing. No. 1,355,198; Oct. 12; v. 279; p. 202.
Webb, Frank A., Protection, Kans. Carbid controlling and dumping valve for acetylene-gas generators. No. 1,337,805; Apr. 20; v. 273; p. 532.
Webb, Gale M., Bay City, Mich. Cover-holder for milk-bottles. No. 1,362,208; Dec. 14; v. 281; p. 282.
Webb, George C., and T. T. Pottenger, Pittsburgh, Pa. Concrete floor. No. 1,348,610; Aug. 3; v. 277; p. 93.
Webb, George S., Jr., Sidney, assignor to Julius Kayser & Co., New York, N. Y. Glove-pointing gage. No. 1,337,972; Apr. 20; v. 273; p. 565.
Webb, Hartwell W., Cresskill, N. J. Thermal switch. No. 1,330,753; Feb. 10; v. 271; p. 294.
Webb, Irving F., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Belt-pulley. No. 1,331,173; Feb. 17; v. 271; p. 442.
Webb, James J., Boley, Okla. Shoe-blacking stand. No. 1,357,666; Nov. 2; v. 280; p. 88.
Webb, Jean F., Sr., New York, N. Y. Aeroplane. No. 1,348,468; Aug. 3; v. 277; p. 65.
Webb, Jean F., Jr., assignor to The International Signal Co., Incorporated, New York, N. Y. Automatic speed-control mechanism. No. 1,361,509; Dec. 7; v. 281; p. 107.
Webb, Jesse B. (See Daniel, William A., assignor.)
Webb, John W., Chicago, Ill. Flying-machine. No. 1,344,283; June 22; v. 275; p. 705.
Webb, John W., assignor, by mesne assignments, to Webb Tester Incorporated, Chicago, Ill. Device for testing corrugated paper-board and corrugated-paper-board boxes. No. 1,328,349; Jan. 20; v. 270; p. 373.
Webb, Thomas H., and C. J. Rhodes, Wakefield, England. Clamping device for shearing-machines. No. 1,337,675; Apr. 20; v. 273; p. 508.
Webb Tester Incorporated. (See Webb, John W., assignor.)
Webb, Wade F., Kernville, Calif. Concrete-gun. No. 1,362,767; Dec. 21; v. 281; p. 453.
Webb, William F., Garden City, Kans. Valve-lifter. No. 1,331,602; Feb. 24; v. 271; p. 543.
Webber, Carl E., Saco, Me., assignor to Saco-Lowell Shops, Boston, Mass. Unwinding device. No. 1,332,654; Mar. 2; v. 272; p. 92.
Webber, Gardner M., Stoneham, Mass. Tent. No. 1,338,058; Apr. 27; v. 273; p. 650.

Digitized by Google

Webber, John J., Rochester, N. Y. Baby-walker. No. 1,342,518; June 8; v. 275; p. 230.
Webber, Leonard E. (See Alderbruck, H. G., and Webber.)
Webber, William P., Brooklyn, N. Y. Thermal circuit-closer. No. 1,343,803; June 15; v. 275; p. 547.
Weber, Charles, Newark, N. J. Powder-box. No. 1,331,547; Feb. 24; v. 271; p. 532.
Weber, Charles, Newark, N. J. Article of manufacture and making same. No. 1,350,533; Aug. 24; v. 277; p. 640.
Weber, Charles G., Eastport, Md. Weather-strip. No. 1,355,582; Oct. 12; v. 279; p. 276.
Weber, Christopher J. M. (See Weber, Frank R. and C. J. M.)
Weber, Frank R. and C. J. M., St. Paul, Minn. Oiling device for journal-boxes. No. 1,344,465; June 22; v. 275; p. 741.
Weber, Franz W., Woodville, Ohio. Hydrator for lime. No. 1,350,534; Aug. 24; v. 277; p. 640.
Weber, Fred, Los Angeles, Calif. Container. No. 1,356,801; Oct. 26; v. 279; p. 601.
Weber, Fritz, New York, N. Y. Slub-catcher. No. 1,343,162; June 8; v. 275; p. 346.
Weber, George, Stuart, Nebr. Hydraulic motor. No. 1,354,231; Sept. 28; v. 278; p. 635.
Weber, Henry, and G. L. Richardson, assignors to Latham Machinery Company, Chicago, Ill. Wire-stitcher. No. 1,357,752; Nov. 2; v. 280; p. 105.
Weber, Isaac N., New York, N. Y. Safety-razor. No. 1,358,485; Nov. 9; v. 280; p. 311.
Weber, Jacob L., Chicago, Ill. Coat-hanger. No. 1,344,665; June 29; v. 275; p. 846.
Weber, Jacob L., Chicago, Ill. Knockdown crate or box. No. 1,353,688; Sept. 21; v. 278; p. 483.
Weber, John, Philadelphia, Pa. Musical instrument. No. 1,347,977; July 27; v. 276; p. 701.
Weber, John B., Union Hill, N. J., assignor to The Osborne Company, Newark, N. J. Calendar-head. No. 1,347,882; July 27; v. 276; p. 683.
Webster, A. G., & Sons. (See Mohr, Henry, assignor.)
Webster Company. (See Wemmell, William G., assignor.)
Webster, Edgar P., Bridgeport, Conn. Wheel-hub. No. 1,345,648; July 6; v. 276; p. 62.
Webster, Edgar P., Bridgeport, Conn. Universal roller-bearing. No. 1,346,147; July 13; v. 276; p. 223.
Webster, Edward L., Wheatland, Wyo. Envelop. No. 1,344,071; June 22; v. 275; p. 664.
Webster Electric Company. (See Brown, Walter, assignor.)
Webster Electric Company. (See Geist, Harry F., assignor.)
Webster Electric Company. (See Kane, Edmund J., assignor.)
Webster Electric Company. (See Stark, John R., assignor.)
Webster, Emmett S. (See Smith, C. L., and Webster.)
Webster, Emmet S., South Bend, and J. W. Bellairs, Mishawaka, Ind. Loom. No. 1,331,608; Feb. 24; v. 271; p. 543.
Webster, G. W., *et al.* (See Price, James W. assignor.)
Webster, Harry S., Van Wert, Ohio. Cleaning attachment for whisk-brooms. No. 1,341,091; May 25; v. 274; p. 664.
Webster, Henry, Newport, Ky. Continuous muffle-kiln. No. 1,362,158; Dec. 14; v. 281; p. 282.
Webster, Hyleman A., Columbia, Tenn. Producing pyrophosphates. No. 1,346,148; July 13; v. 276; p. 224.
Webster, John E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Gear-shifting mechanism. No. 1,363,628; Dec. 28; v. 281; p. 659.
Webster, John E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Gear-shifting mechanism. No. 1,363,629; Dec. 28; v. 281; p. 660.
Webster, John E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Gear-shifting mechanism. No. 1,363,700; Dec. 28; v. 281; p. 673.
Webster, John E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Gear-shifting mechanism. No. 1,363,701; Dec. 28; v. 281; p. 673.
Webster, John L., Ottawa, Ontario, Canada. Fuel-saver and smoke-consumer. No. 1,355,370; Oct. 12; v. 279; p. 235.
Webster, Lawrence B., Cleveland, Ohio. Drill-gage. No. 1,357,753; Nov. 2; v. 280; p. 105.
Webster, Paul W., Pelham Manor, and V. K. Boynton, New York, N. Y., assignors to Perry & Webster Incorporated, Elizabeth, N. J. Producing interactions between gas and a liquid. No. 1,361,940; Dec. 14; v. 281; p. 239.
Webster & Perks Tool Company, The. (See Mitchell, Raymond C., assignor.)
Webster, Raleigh L., *et al.* (See Roberts, John W., assignor.)
Webster, S. S., *et al.* (See Price, James W., assignor.)
Webster, Thomas F., assignor to R. H. Beaumont Company, Philadelphia, Pa. Pivoted gate for skip-hoists. No. 1,359,212; Nov. 16; v. 280; p. 497.
Webster, William, Victoria, British Columbia, Canada. Swimming apparatus. No. 1,341,290; May 25; v. 274; p. 702.
Webster, William, assignor of one-half to H. L. Sorensen, Berkeley, Calif. Valve. No. 1,333,048; Mar. 9; v. 272; p. 218.
Webster, William A., Galesburg, Ill. Baler. No. 1,351,452; Aug. 31; v. 277; p. 881.
Wechsler, Louis, New York, N. Y. Mop and brush holder. No. 1,342,036; June 1; v. 275; p. 83.
Wecht, Charles L., Logansport, Ind. Wheeled toy. No. 1,331,948; Feb. 24; v. 271; p. 608.
Wecht, Charles L., Logansport, Ind. Toy swinging chair. No. 1,346,620; July 13; v. 276; p. 317.
Weckbaugh, Joseph V., New York, N. Y. Accounting and recording apparatus. No. 1,337,575; Apr. 20; v. 273; p. 489.
Weckbaugh, Joseph V., Greenwich, Conn. Manufacture of paper cups. No. 1,359,772; Nov. 23; v. 280; p. 653.
Weckbaugh, Joseph V., New York, N. Y. Manufacturing cups. No. 1,359,773; Nov. 23; v. 280; p. 654.
Weddell, Rachel S., executrix. (See Lineham, Wilfrid J.)
Wedein, August, and J. P. Stevens, Mason City, Iowa. Shoe-heel. No. 1,347,883; July 27; v. 276; p. 683.
Weden, E. A., *et al.* (See Rollins, William, assignor.)
Wedlock, Frank V., Chicago, Ill., assignor to Featheredge Rubber Company. Heat-insulating fabric. No. 1,345,046; June 29; v. 275; p. 918.
Wedmore, Edmund B., Hendon, England, assignor to General Electric Company. Protective device. No. 1,341,488; May 25; v. 274; p. 741.
Wedmore, Edmund B., Hendon, England, assignor to General Electric Company. Protective device. No. 1,343,018; June 8; v. 275; p. 329.
Wedwick, Jacob. (See Nelson, H., and Wedwick.)
Weed Differential-Rotary Motor Company. (See Weed, Howard L., assignor.)
Weed, George W. (See Roberts, A. H., and Weed.)
Weed, Howard L., Detroit, Mich. Cylinder-forming machine. No. 1,328,409; Jan. 20; v. 270; p. 385.
Weed, Howard L., Detroit, Mich. Rotary engine. No. 1,328,410; Jan. 20; v. 270; p. 385.
Weed, Howard L., assignor to Weed Differential-Rotary Motor Company, Detroit, Mich. Cylinder-forming process. No. 1,348,674; Aug. 3; v. 277; p. 106.
Weed, Howard L., assignor to Weed Differential-Rotary Motor Company, Detroit, Mich. Rotary engine. No. 1,348,675; Aug. 3; v. 277; p. 106.
Weed, James M., Schenectady, N. Y., assignor to General Electric Company. Welding electrodes. No. 1,330,568; Feb. 10; v. 271; p. 259.
Weed, Lowrey A., New York, N. Y. Range-finder. No. 1,359,133; Nov. 16; v. 280; p. 482.
Weeks, Charles, Palo Alto, Calif. Egg-turning tray. No. 1,356,949; Oct. 26; v. 279; p. 631.
Weeks, Elling O., Detroit, Mich. Radiator. No. 1,337,576; Apr. 20; v. 273; p. 489.
Weeks, Foster, *et al.* (See Olney, Lillian B., assignor.)
Weeks, Frank A., Plainfield, N. J. Inkstand. No. 1,347,527; July 27; v. 276; p. 611.
Weeks, Frank E., assignor to A. Ringman, Chicago, Ill. Goggles. No. 1,337,420; Apr. 20; v. 273; p. 459.
Weeks, Helen, assignor of one-half to S. E. Durant, New York, N. Y. Dress-shield. No. 1,350,192; Aug. 17; v. 277; p. 526.
Weeks, Jackson S., *et al.*, trustees. (See Weeks, Joseph H., assignor.)
Weeks, John B., Corinth, Miss. Picket-fence strand. No. 1,348,765; Aug. 3; v. 277; p. 122.
Weeks, Joseph H., Rutledge, assignor to J. S. Weeks, Delaware county, and R. M. Weeks, Philadelphia, Pa., trustees. Composition for electrolytes for electrical etching. No. 1,362,159; Dec. 14; v. 281; p. 282.
Weeks, Raymond M., *et al.*, trustee. (See Weeks, Joseph H., assignor.)
Weeks, Shirley S., Oakland, Calif. Automatic gas-analyser. No. 1,345,047; June 29; v. 275; p. 918.
Weeks, Walter S., Berkeley, Calif. Compressor apparatus. No. 1,343,536; June 15; v. 275; p. 493.
Weemhoff, Harvey H. (See Warner, J. W., and Weemhoff.)
Weems, Chester N., Irvington, N. J. Head-lamp. No. 1,349,642; Aug. 17; v. 277; p. 420.
Wegener, Frank C. (See Sauer, V. O., and Wegener.)
Wegener, William E., Chicago Heights, Ill. Sheet-gripper. No. 1,343,537; June 15; v. 275; p. 493.
Weglener, Waldemar J., Highwood, Englewood, N. J., assignor to The Kny-Scheerer Corporation. Container for sterilizers. No. 1,357,754; Nov. 2; v. 280; p. 105.
Wegner, Paul F. (See Bombardie, C. H., and Wegner.)
Wego, Peter C., St. Paul, Minn. Spiral chute. No. 1,353,873; Sept. 28; v. 278; p. 562.
Wego, Peter C., St. Paul, Minn. Bearing for conveyer-rollers. No. 1,353,874; Sept. 28; v. 278; p. 562.
Wego, Peter C., St. Paul, Minn. Gravity-conveyer. No. 1,353,875; Sept. 28; v. 278; p. 563.
Wehr, Austin A., Baden, Pa. Art of and apparatus for cooling and condensing gasolene or light vapors. No. 1,340,427; May 18; v. 274; p. 467.
Wehr, Rudolph, New York, N. Y. Rotary valve. No. 1,347,978; July 27; v. 276; p. 701.
Wehrenberg, William H., La Crosse, Wis. Padding. No. 1,352,231; Sept. 7; v. 278; p. 99.
Weibull, Ernest H. W. (See Enström, E., and Weibull.)
Weibull, Ernest H. W., assignor to Nordiska Kullager Aktiebolaget, Gottenborg, Sweden. Ball-bearing cage. No. 1,354,863; Oct. 5; v. 279; p. 83.

Digitized by Google

Alphabetical list of patentees—Continued.

Weibull, Ernst H. W., assignor to Nordiska Kullager Aktiebolaget, Gottenborg, Sweden. Roller-bearing. No. 1,335,766; Apr. 6; v. 273; p. 12.
Weibull, Nils R. M., Bofors, Sweden. Stop or set screw. No. 1,346,867; July 20; v. 276; p. 425.
Weichsel, Hans, assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Starting apparatus for internal-combustion engines. No. 1,353,876; Sept. 28; v. 278; p. 563.
Weickel, Henry, assignor to Pawling and Harnischfeger Company, Milwaukee, Wis. Hoisting and conveying apparatus. No. 1,351,882; Sept. 7; v. 278; p. 34.
Weida, Harry, Highland Park, N. J., assignor to The India Rubber Company. Hard-rubber battery-jar and making same. No. 1,343,380; June 15; v. 275; p. 463.
Weida, Harry, Highland Park, N. J., assignor to India Rubber Company. Mold and process for battery-jars. No. 1,358,903; Nov. 16; v. 280; p. 440.
Weidely, George A., Indianapolis, Ind., assignor to The Cleveland Tractor Company, Euclid, Ohio. Internal-combustion engine. No. 1,345,048; June 29; v. 275; p. 918.
Weidmann Dyeing Co. (See Dürsteler, Wilhelm, assignor.)
Weidner, Charles W., Mooresville, Ind. Automobile-gearing lock. No. 1,362,377; Dec. 14; v. 281; p. 325.
Weidrick, Louie T., Baltimore, Md. Portable Electric Rivet-Heater. No. 1,349,539; Aug. 10; v. 277; p. 327.
Weigel, Philip A., Riverton, N. J., assignor of one-third to E. Gumbel and one-third to G. Di Giacomo, Philadelphia, Pa. Steering-controller. No. 1,350,285; Aug. 17; v. 27; p. 543.
Weightman, W. A., and C. H. Nitsch, Philadelphia, assignors to Stokes & Smith Company, Summerdale, Pa. Producing sealed wrapped packages. No. 1,352,232; Sept. 7; v. 278; p. 100.
Weightman, William A. (See Reifsnyder, J. D., and Weightman.)
Weightman, William A., and C. H. Nitsch, Philadelphia, assignors to Stokes & Smith Company, Summerdale, Pa. Producing covered box-shells. No. 1,341,954; June 1; v. 275; p. 67.
Weil, Christian F., Jefferson township, Warren county, Iowa. Latch. No. 1,359,774; Nov. 23; v. 280; p. 654.
Weil, Edward L., Kearney, N. J. Washer for the stems of valves. No. 1,344,744; June 29; v. 275; p. 861.
Weil, Emile, New Orleans, La. Masonry wall and insert therefor. No. 1,331,834; Feb. 24; v. 271; p. 587.
Weil, Maximilian, assignor, by mesne assignments, to National Phone Company, Inc., New York, N. Y. Telephonic apparatus. No. 1,345,049; June 29; v. 275; p. 919.
Weiland, Alfred, Philadelphia, Pa. Carbureter for internal-combustion engines. No. 1,345,297; June 29; v. 275; p. 997.
Weiland, Alfred, New York, N. Y. Carbureter. No. 1,345,298; June 29; v. 275; p. 967.
Weille, James, Paducah, Ky. Suspenders. No. 1,363,028; Dec. 21; v. 281; p. 503.
Weimar, Fritz, assignor of one-half to L. E. Mounger, San Antonio, Tex. Automobile-tilting machine. No. 1,334,336; Mar. 23; v. 272; p. 566.
Weimer, Rudolph. (See Wiester, Stefan, assignor.)
Wein, Jens D., assignor to Wein Manufacturing Corporation, Troy, N. Y. Internal-combustion engine. No. 1,343,858; June 15; v. 275; p. 558.
Wein Manufacturing Corporation. (See, Wein, Jens D., assignor.)
Wein Sales Corporation. (See Coughlin, Joseph D., assignor.)
Weinacker, Hermann, assignor, by mesne assignments, to General Chain Company, Providence, R. I. Chain-making machine. No. 1,340,639; May 18; v. 274; p. 507.
Weinbach, Abraham, Brooklyn, N. Y. Sample-card. No. 1,351,594; Aug. 31; v. 277; p. 910.
Weinberg, Charles. (See Weinberg, Hyman and C.) (Reissue.)
Weinberg, Hyman and C., New York, N. Y.; said C. Weinberg assignor to said Hyman Weinberg. Safety device for automobiles. (Reissue.) No. 14,831; Mar. 30; v. 272; p. 889.
Weinberg, Isaac H., and C. F. Bisbing, New York, N. Y. Umbrella and parasol. No. 1,352,332; Sept. 7; v. 278; p. 118.
Weinberg, Joseph, New York, N. Y. Fire-escape. No. 1,332,011; Feb. 24; v. 271; p. 620.
Weinberg, Reuel E. (See Goudelock, J. M., and Weinberg.)
Weinberger, Benjamin, assignor to Marx & Haas Clothing Co., St. Louis, Mo. Transmission mechanism for sewing-machines. No. 1,360,337; Nov. 30; v. 280; p. 833.
Weinberger, Julius. (See Goldsmith, A. N., and Weinberger.)
Weiner, Jacob, Newark, N. J. Riveting-machine. No. 1,360,065; Nov. 23; v. 280; p. 711.
Weinerth, George S., Reading, Pa. Reinforcing mechanism for circular-knitting machines. No. 1,351,883; Sept. 7; v. 278; p. 35.
Weingarten, Arthur, *et al.* (See Brown, Robert B., assignor.)
Weinhardt, Robert A., Chicago, Ill., assignor, by mesne assignments, to Continental Motors Corporation, Detroit, Mich. Crank-shaft. No. 1,328,350; Jan. 20; v. 270; p. 373.
Weinhardt, Robert A., assignor to Continental Motors Corporation, Detroit, Mich. Connecting-rod. No. 1,350,580; Apr. 24; v. 277; p. 649.
Weinhardt, Robert A., Chicago, Ill., assignor, by mesne assignments, to Continental Motors Corporation, Detroit, Mich. Crank-shaft and connecting-rod assembly. No. 1,355,438; Oct. 12; v. 279; p. 248.
Weinhardt, Robert A., Chicago, Ill., assignor, by mesne assignments, to Continental Motors Corporation, Detroit, Mich. Crank-shaft assembly. No. 1,355,439; Oct. 12; v. 279; p. 248.
Weinstein, Louis J., New York, N. Y. Paralleling device. No. 1,345,815; July 6; v. 276; p. 96.
Weintz, Jacob, assignor to The Strong, Carlisle and Hammond Company, Cleveland, Ohio. Annealing and heat-treating furnace. No. 1,339,081; May 4; v. 274; p. 81.
Weir Frog Company. (See Madison, Mart J., assignor.)
Weir, John M., East Cleveland, Ohio. Removable hand-rail structure. No. 1,356,675; Oct. 26; v. 279; p. 577.
Weir, Lloyd F., Spokane, Wash. Necktie-retainer. No. 1,361,296; Dec. 7; v. 281; p. 63.
Weir Stove Company. (See Anthony, Joseph L., assignor.)
Weis, Albert H., Nyack, N. Y., assignor to Metropolitan Sewing Machine Corporation. Triple-seam-sewing machine. No. 1,341,448; May 25; v. 274; p. 733.
Weis, Albert H., Nyack, N. Y., assignor to Metropolitan Sewing Machine Corporation. Making triple seams. No. 1,341,769; June 1; v. 275; p. 31.
Weis, Albert H., Nyack, N. Y., assignor to Metropolitan Sewing Machine Corporation. Sewing mechanism. No. 1,344,284; June 22; v. 275; p. 705.
Weis, Charles, Lancaster, Pa. Heel. No. 1,358,598; Nov. 9; v. 280; p. 333.
Weis, Henry, Manufacturing Company. (See Motts, C. W., and Lewis, assignors.)
Weis, John P., Nyack, N. Y., assignor, by mesne assignments, to Metropolitan Sewing Machine Corporation, Dover, Del. Shoulder-strap-sewing machine. No. 1,327,646; Jan. 13; v. 270; p. 204.
Weis, John P., assignor to Metropolitan Sewing Machine Corporation, Nyack, N. Y. Combined looper and feeding mechanism for sewing-machines. No. 1,327,647; Jan. 13; v. 270; p. 204.
Weis, John P., Nyack, N. Y., assignor to Metropolitan Sewing Machine Corporation. Thread-controlling means for sewing-machines. No. 1,328,023; Jan. 13; v. 270; p. 275.
Weis, John P., Nyack, N. Y., assignor to Metropolitan Sewing Machine Corporation. Sewing-machine. No. 1,328,108; Jan. 13; v. 270; p. 291.
Weis, John P., Nyack, N. Y., assignor of one-half to Metropolitan Sewing Machine Corporation, Dover, Del. Cutting attachment for cutting-machines. No. 1,342,008; June 1; v. 275; p. 77.
Weis, John P., Nyack, N. Y., assignor of one-half to Metropolitan Sewing Machine Corporation, Dover, Del. Simultaneously cutting and sewing shirts and the like. No. 1,342,009; June 1; v. 275; p. 77.
Weis, John P., Nyack, N. Y., assignor of one-half to Metropolitan Sewing Machine Corporation, Dover, Del. Manufacturing union-suits and drawers. No. 1,342,010; June 1; v. 275; p. 78.
Weis, John P., assignor to Metropolitan Sewing Machine Corporation, Nyack, N. Y. Sweat-band for hats. No. 1,347,528; July 27; v. 276; p. 611.
Weis, John P., assignor, by mesne assignments, of one-half to Metropolitan Sewing Machine Corporation, Nyack, N. Y. Sewing-machine and cutting mechanism therefor. No. 1,348,526; Aug. 3; v. 277; p. 76.
Weis, John P., assignor of one-half to Metropolitan Sewing Machine Corporation, Nyack, N. Y. Lubricating system and sewing-machine construction. No. 1,348,527; Aug. 3; v. 277; p. 77.
Weis, John P., assignor of one-half, by mesne assignments, to Metropolitan Sewing Machine Corporation, Nyack, N. Y. Stop-motion. No. 1,352,333; Sept. 7; v. 278; p. 119.
Weis, Paul B., assignor to Aurora Door Hanger & Specialty Company, Aurora, Ill. Folding-door-hanger equipment. No. 1,349,398; Aug. 10; v. 277; p. 299.
Weis, Paul B. assignor to Aurora Door Hanger and Specialty Company, Aurora, Ill. Folding-door-hanger equipment. No. 1,349,399; Aug. 10; v. 277; p. 300.
Weisberg, Max, Buffalo, N. Y. Self-playing musical instrument. No. 1,330,928; Feb. 17; v. 271; p. 397.
Weisberger, Edward I. (See Newberg and Weisberger.)
Weise, Alvin P., Detroit, Mich. Sanding device for automobiles. No. 1,342,316; June 1; v. 275; p. 137.
Weisehan, Frank. (See Brewster and Weisehan.)
Weiseman, William H., Emsworth, Pa. Pot-supporter. No. 1,334,199; Mar. 16; v. 272; p. 494.
Weisenback, Major, Reedville, Oreg. Speed-indicator. No. 1,355,440; Oct. 12; v. 279; p. 248.
Weisenborn, G. P. A. (See Brauer, August, assignor.)
Weisenborn, George P. A., Kansas City, Mo. Churn. No. 1,337,864; Apr. 20; v. 273; p. 544.

Digitized by Google

Weisenreider, John M., Brooklyn, N. Y. Time-controlled lighting device. No. 1,353,441; Sept. 21; v. 278; p. 432.
Weiser, Frank J. W., Elmhurst, Ill. Player-piano. No. 1,351,312; Aug. 31; v. 277; p. 853.
Weisert, Ida M., New York, N. Y. Garment-protector. No. 1,362,908; Dec. 21; v. 281; p. 480.
Weisgerber, Edwin C., U. S. Army. Colored smoke. No. 1,339,142; May 4; v. 274; p. 93.
Weisgerber, Edwin C., U. S. Army. Colored smoke. No. 1,339,143; May 4; v. 274; p. 93.
Weisgerber, Edwin C., U. S. Army. Colored smoke. No. 1,339,144; May 4; v. 274; p. 93.
Weisgerber, Edwin C., U. S. Army. Colored smoke. No. 1,339,145; May 4; v. 274; p. 93.
Weisgerber, Edwin C., U. S. Army. Colored smoke. No. 1,339,146; May 4; v. 274; p. 93.
Weisgerber, Edwin C., U. S. Army. Colored smoke. No. 1,339,147; May 4; v. 274; p. 93.
Weisgerber, Edwin C., U. S. Army. Colored smoke. No. 1,339,148; May 4; v. 274; p. 93.
Weisgerber, Edwin C., U. S. Army. Colored smoke. No. 1,339,149; May 4; v. 274; p. 93.
Weisgerber, Edwin C., U. S. Army. Colored smoke. No. 1,339,150; May 4; v. 274; p. 93.
Weisgerber, Edwin C., U. S. Army. Refillable fuse. No. 1,341,401; May 25; v. 274; p. 724.
Weisgerber, Edwin C., U. S. Army. Fuse-plug. No. 1,346,574; July 13; v. 276; p. 308.
Weisman, Ralph. (See Weissman, S., and Weisman.)
Weiss, Abraham, New York, N. Y. Starting device for explosive-engines. No. 1,361,787; Dec. 7; v. 281; p. 161.
Weiss, Adele and E., Pasadena, Calif. Adjustable receiver-holder. No. 1,329,942; Feb. 3; v. 271; p. 112.
Weiss, André, Lyon, assignor to Societe Chimique des Usines du Rhone, Anciennement Gilliard P. Monnet et Cartier, Paris, France. Manufacture of oxyaldehydes and their ethers. No. 1,345,649; July 6; v. 276; p. 62.
Weiss, Christoph K., Nuremberg, Germany. Roof. No. 1,354,360; Sept. 28; v. 278; p. 661.
Weiss, Emanuel. (See Weiss, Adele and E.)
Weiss, George, Chicago, Ill. Filling-machine. No. 1,354,635; Oct. 5; v. 279; p. 38.
Weiss, George, Chicago, assignor of one-half to L. P. Mick, Evanston, Ill. Machine for opening eggs and separating the contents thereof. No. 1,361,121; Dec. 7; v. 281; p. 28.
Weiss, George W., New York, N. Y. Machine for making waistbands. No. 1,341,092; May 25; v. 274; p. 664.
Weiss, George W., New York, N. Y. Machine for making hat-linings. No. 1,347,001; July 20; v. 276; p. 451.
Weiss, Howard F., assignor to C. F. Burgess Laboratories, Madison, Wis. Production of mats of fibrous material. No. 1,336,402; Apr. 6; v. 273; p. 132.
Weiss, Howard F., assignor to C. F. Burgess Laboratories, Madison, Wis. Composite insulating material. No. 1,336,403; Apr. 6; v. 273; p. 132.
Weiss, Howard F., assignor to C. F. Burgess Laboratories, Madison, Wis. Composite insulating material. No. 1,336,404; Apr. 6; v. 273; p. 132.
Weiss, Howard F., Madison, Wis., assignor to C. F. Burgess Laboratories. Fireproofing wood. No. 1,339,488; May 11; v. 274; p. 232.
Weiss, Howard F., assignor to C. F. Burgess Laboratories, Madison, Wis. Recovery of organic products from wood. No. 1,339,489; May 11; v. 274; p. 232.
Weiss, Howard F., assignor to C. F. Burgess Laboratories, Madison, Wis. Fireproofing wood. No. 1,346,287; July 13; v. 276; p. 251.
Weiss, Howard F., assignor to C. F. Burgess Laboratories, Madison, Wis. Fibrous products. No. 1,349,112; Aug. 10; v. 277; p. 242.
Weiss, Howard F., assignor to C. F. Burgess Laboratories, Madison, Wis. Treatment of wood and recovery of organic products therefrom. No. 1,358,129; Nov. 9; v. 280; p. 239.
Weiss, Hugo, New York, N. Y. Photograph-printing apparatus. No. 1,361,555; Dec. 7; v. 281; p. 117.
Weiss Instrument Company, The. (See Edstrom, Karl A., assignor.)
Weismantel, Joseph W., Newark, N. J. Combination bed attachment. No. 1,353,502; Sept. 21; v. 278; p. 444.
Weiss, J. M., New York, N. Y., and C. R. Downs, Cliffside, N. J., assignors to The Barrett Company. Catalytic oxidation of anthracene. No. 1,355,098; Oct. 5; v. 279; p. 129.
Weiss, J. M., New York, G. C. Bailey, Woodcliff-on-Hudson, N. Y., and R. S. Potter, Bergen, N. J., assignors to The Barrett Company. Production of chlorobenzoyl benzoic acid. No. 1,355,100; Oct. 5; v. 279; p. 129.
Weiss, John M., New York, N. Y., assignor to The Barrett Company. Rubber product and composition. No. 1,334,060; Mar. 16; v. 272; p. 469.
Weiss, John M., New York, N. Y., assignor to The Barrett Company. Plastic composition. No. 1,334,061; Mar. 16; v. 272; p. 469.
Weiss, John M., New York, N. Y., assignor to The Barrett Company. Composition of matter containing bituminous material. No. 1,340,855; May 18; v. 274; p. 547.
Weiss, John M., assignor to The Barrett Company, New York, N. Y. Making a coal-tar product. No. 1,355,099; Oct. 5; v. 279; p. 129.
Weiss, Joseph W., Newark, N. J., assignor to French Battery & Carbon Co., Madison, Wis. Electric battery and operation. No. 1,358,350; Nov. 9; v. 280; p. 283.
Weiss, Julia, Wenosha, Wis. Garment. No. 1,349,029; Aug. 10; v. 277; p. 226.
Weiss, Leo A., Cleveland, Ohio. Chain-repair link. No. 1,347,725; July 27; v. 276; p. 651.
Weiss, Louis T., Brooklyn, N. Y. Drag for fishing-lines. No. 1,333,691; Mar. 16; v. 272; p. 400.
Weiss, Paul, Paris, and J. Verdier, Enghien, France. Process and apparatus for the production of intense artificial clouds, fogs, or mists. No. 1,338,343; Apr. 27; v. 273; p. 704.
Weiss, Paul G., Indianapolis, Ind. Portable drill. No. 1,333,743; Mar. 16; v. 272; p. 409.
Weissel, Robert G., Oakland, Calif. Automobile-lock. No. 1,363,448; Dec. 28; v. 281; p. 624.
Weiss, Simon, New York, N. Y. Picture-frame. No. 1,356,575; Oct 26; v. 279; p. 557.
Weissman, Joseph, New York, N. Y. Washable sanitary napkin. No. 1,353,196; Sept. 21; v. 278; p. 385.
Weissman, Samuel, and R. Weisman, Detroit, Mich. Bed-spring. No. 1,340,510; May 18; v. 274; p. 482.
Weith, Archie J. (See Redman, L. V., Weith, and Brock.)
Weithaus, John J., North Vernon, Ind. Liquid-hydrocarbon-vapor producer. No. 1,337,108; Apr. 13; v. 273; p. 327.
Weitman, Solomon F., Live Oak, Fla. Baling-press. No. 1,351,360; Aug. 31; v. 277; p. 864.
Weitz, Charles, New York, N. Y. Stylographic fountain-pen. No. 1,340,926; May 25; v. 274; p. 631.
Weitzel, Henry C., Baltimore, Md. Side dumping wagon. No. 1,346,575; July 13; v. 276; p. 308.
Weitzel, Paul R., Philadelphia, Pa. Means for indicating level of plastic material in containers. No. 1,337,029; Apr. 13; v. 273; p. 312.
Weitzel, Paul R., Philadelphia, Pa. Means for indicating level of plastic material in containers. No. 1,337,030; Apr. 12; v. 272; p. 312.
Weizmann, Charles, and G. A. Hamlyn, London, England. Fementation process for the production of acetone and butyl alcohol. No. 1,329,214; Jan. 27; v. 270; p. 565.
Welch, Alfred F., Fort Wayne, Ind., assignor to General Electric Company. Universal motor. No. 1,328,467; Jan. 20; v. 270; p. 396.
Welch, Clarence R., Denver, Colo. Automobile-lock. No. 1,331,084; Feb. 17; v. 271; p. 427.
Welch, Clarence R., Denver, Colo. Lock for steering-posts of automobiles. No. 1,342,728; June 8; v. 275; p. 271.
Welch, Clarence R., Denver, Colo. Automobile-lock. No. 1,359,213; Nov. 16; v. 280; p. 497.
Welch, Earnest P., Gary, Ind. Automatic cut-off and reverse for steam-engines. No. 1,358,403; Nov. 9; v. 280; p. 295.
Welch, Emery L., Lima, Ohio. Electrical detecting-machine. No. 1,342,835; June 8; v. 275; p. 293.
Welch, Frank P., Poughkeepsie, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Collar and making same. No. 1,334,062; Mar. 16; v. 272; p. 469.
Welch, Harry V., assignor to International Precipitation Company, Los Angeles, Calif. Apparatus for making sulfuric acid. No. 1,328,552; Jan. 20; v. 270; p. 412.
Welch, Harry V., assignor to International Precipitation Company, Los Angeles, Calif. Recovery of metals from their ores. No. 1,338,271; Apr. 27; v. 273; p. 691.
Welch, Herman L., El Centro, Calif. Pistol. No. 1,340,127; May 11; v. 274; p. 353.
Welch, Horace H. (See Adams, J. L., Jr., and Welch.)
Welch, Horace H., Chicago, Ill. Electric recorder. No. 1,338,715; May 4; v. 274; p. 12.
Welch, Horace H., Los Angeles, Calif., assignor, by mesne assignments, to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Repeating device. No. 1,357,602; Nov. 2; v. 280; p. 75.
Welch, James R. (See Dusoevoir and Welch.)
Welch, Jesse C., Tacoma, Wash. Wheel. No. 1,342,784; June 8; v. 275; p. 283.
Welch, Jesse C., Tacoma, Wash. Amusement device. No. 1,346,576; July 13; v. 276; p. 308.
Welch, Jesse C., Tacoma, Wash. Bearing. No. 1,359,007; Nov. 16; v. 280; p. 459.
Welch, John A., Fort Dodge, Iowa. Hog-waterer. No. 1,333,519; Mar. 9; v. 272; p. 306.
Welch, Lon L., assignor to Hampton Electric and Machine Company, San Francisco, Calif. Billet-turner. No. 1,340,640; May 18; v. 274; p. 507.
Welch, Robert L., Montreal, Quebec, Canada. Wrapping-paper-serving apparatus. No. 1,358,904; Nov. 16; v. 280; p. 440.
Welch, Samuel P., assignor to Ojus Spark Plug Works, Atlantic City, N. J. Spark-plug. No. 1,348,913; Aug. 10; v. 277; p. 203.
Welch, Walter H., Bristol, England, assignor to Harvey Frost & Company, Limited, London, England. Portable vulcanizer for tire-repairs. No. 1,360,837; Nov. 30; v. 280; p. 931.
Welch, William H. (See Colvin, Shady D., assignor.)
Welchel, Herbert E., and A. A. McCray, Indianapolis, Ind. Electric heater. No. 1,361,556; Dec. 7; v. 281; p. 117.

Digitized by Google

Alphabetical list of patentees—Continued.

Welcker, Paul H., assignor to Brown & Bigelow, St. Paul, Minn. Bottle-cap lifter. No. 1,338,847; May 4; v. 274; p. 37.
Welcker, Paul H., assignor to Brown & Bigelow, St. Paul, Minn. Collapsible soap-dish. No. 1,353,103; Sept. 14; v. 278; p. 306.
Weldit Company, The. (See Wade, Percy, assignor.)
Weldon, John T., Milwaukee, Wis. Reference-stake protector. No. 1,363,826; Dec. 28; v. 281; p. 698.
Welhoefer, John T. (See Peters, E. A., and Welhoefer.)
Weliki, George, Hamilton, Ontario, Canada. Horseshoe. No. 1,357,930; Nov. 2; v. 280; p. 139.
Welin, Axel, London, England, assignor to American Balsa Company, Inc. Mechanism for turning ships' davits. No. 1,339,532; May 11; v. 274; p. 240.
Welin, Axel, London, England, assignor to The American Balsa Company, Inc. Crane. No. 1,342,480; June 8; v. 275; p. 222.
Wellbrook, Charles H., Hillsboro, Ohio. Tool for removing pins from valve-stems. No. 1,355,631; Oct. 12; v. 279; p. 285.
Weller, Arthur W. (See Robinson-Bindley, W. F., and Weller.)
Weller, Charles, Zurich, Switzerland. Workshop ventilation. No. 1,347,195; July 20; v. 276; p. 488.
Weller, David H. (See Weller, Jacob, and D. H.)
Weller, John L., St. Catherines, Ontario, Canada. Composite vessel. No. 1,331,604; Feb. 24; v. 271; p. 543.
Weller, John L., and F. E. Winchester, Richmond, Ind. Locking device for internal-combustion engines. No. 1,329,943; Feb. 3; v. 271; p. 112.
Weller Manufacturing Co. (See Howard, Hermon E., assignor.)
Weller Manufacturing Company. (See Dolton, Lloyd A., assignor.)
Weller, Jacob, deceased; N. Weller, administratrix, and D. H. Weller, Kansas City, Mo. Automobile-radiator. No. 1,356,676; Oct. 26; v. 279; p. 577.
Weller, Nettie, administratrix. (See Weller, Jacob and D. H.)
Weller, Wilfred H. (See Rose, Samuel S., assignor.)
Welles, George E. B., San Francisco, Calif. Carbureter. No. 1,358,686; Nov. 9; v. 280; p. 351.
Welling, William M. (See Rhoades, Philip F., assignor.)
Wellington, John M., and D. G. Mackenzie, Ilford, England. Machine for the manufacture of concrete blocks. No. 1,361,122; Dec. 7; v. 281; p. 28.
Wellman, Charles A., assignor to Wellman-Muter Corporation, Chicago, Ill. Spark-plug. No. 1,350,757; Aug. 24; v. 277; p. 683.
Wellman, Frank E., assignor to The Kansas City Gasoline Company, Kansas City, Kans. Furnace for oil-cracking stills. No. 1,328,468; Jan. 20; v. 270; p. 396.
Wellman, Frank E., assignor to The Kansas City Gasoline Company, Kansas City, Kans. Apparatus for refining oil. No. 1,335,767; Apr. 6; v. 273; p. 12.
Wellman, Frank E., assignor to The Kansas City Gasoline Company, Kansas City, Kans. Process of and apparatus for refining liquid hydrocarbons. No. 1,335,768; Apr. 6; v. 273; p. 12.
Wellman, Frank E., assignor to The Kansas City Gasoline Company, Kansas City, Kans. System for cracking mineral oil. No. 1,335,769; Apr. 6; v. 273; p. 13.
Wellman, Frank E., assignor to The Kansas City Gasoline Company, Kansas City, Kans. Apparatus for cracking hydrocarbons. No. 1,335,771; Apr. 6; v. 273; p. 13.
Wellman, Frank E., assignor to The Kansas City Gasoline Company, Kansas City, Kans. Apparatus for refining oil. No. 1,335,772; Apr. 6; v. 273; p. 13.
Wellman, Frank E., assignor to The Kansas City Gasoline Company, Kansas City, Kans. Apparatus for refining mineral oils. No. 1,335,773; Apr. 6; v. 273; p. 14.
Wellman, Frank E., assignor to The Kansas City Gasoline Company, Kansas City, Kans. Liquid-heating furnace. No. 1,335,774; Apr. 6; v. 273; p. 14.
Wellman, Frank E., assignor to The Kansas City Gasoline Company, Kansas City, Kans. Oil-refining apparatus. No. 1,347,567; July 27; v. 276; p. 620.
Wellman, Frank E., assignor to The Kansas City Gasoline Company, Kansas City, Kans. Cracking hydrocarbons. No. 1,347,568; July 27; v. 276; p. 620.
Wellman, Frank E., assignor to The Kansas City Gasoline Company, Kansas City, Kans. Refining oil. No. 1,347,664; July 27; v. 276; p. 638.
Wellman, Frank E., Kansas City, Kans. Manufacture of gasolene. No. 1,362,160; Dec. 14; v. 281; p. 282.
Wellman, Frank E., and F. H. Sibley, assignors to The Kansas City Gasoline Company, Kansas City, Kans. System for treating hydrocarbon oils. No. 1,335,770; Apr. 6; v. 273; p. 13.
Wellman-Muter Corporation. (See Wellman, Charles A., assignor.)
Wellman-Seaver-Morgan Company, The. (See Benjamin, Chester W., assignor.)
Wellman-Seaver-Morgan Company, The. (See Case, Arthur F., assignor.)
Wellman-Seaver-Morgan Company. (See Rogers and McClimon, assignors.)
Wellman-Seaver-Morgan Company, The. (See Rogers, J. F., McClimon, and Wetherill, assignors.)
Wellman-Seaver-Morgan Company, The. (See Thomas, Ivor D., assignor.)
Wellman, Seth A., Mason City, Iowa. Ventilating means. No. 1,335,948; Apr. 6; v. 273; p. 46.
Wells, Albert A., Detroit, Mich. Refillable safety indicating fuse. No. 1,329,866; Feb. 3; v. 271; p. 98.
Wells, Albert A., Detroit, Mich. Inclosed non-arcing refillable fuse. No. 1,337,806; Apr. 20; v. 273; p. 533.
Wells, Albert A., Detroit, Mich. Spark-plug. No. 1,354,361; Sept. 28; v. 278; p. 661.
Wells, Alfred A. (See Ellis and Wells.)
Wells, Alfred A., Caldwell, N. J., assignor to Ellis-Foster Company. Coumarone-resin-insulating material. No. 1,332,860; Mar. 2; v. 272; p. 131.
Wells, Alfred A., Montclair, N. J., assignor to National Carbon Company, Inc., New York, N. Y. Producing manganese-containing bodies. No. 1,359,640; Nov. 23; v. 280; p. 627.
Wells, Chandler, Buffalo, N. Y. Windshield or the like. No. 1,344,010; June 22; v. 275; p. 652.
Wells, Charles I., administrator. (See Wells, P. L., and Hunter.)
Wells, Ezra T., Chicago, Ill. Water-heater. No. 1,338,760; May 4; v. 274; p. 21.
Wells, Frank E. (See Wells, Willet C. and F. E.)
Wells, Frank O., assignor to Greenfield Tap and Die Corporation, Greenfield, Mass. Tap. No. 1,345,425; July 6; v. 276; p. 19.
Wells, Frederick L., Rutland, Vt. Automobile-lock. No. 1,343,424; June 15; v. 275; p. 471.
Wells, George A., Jr., New York, N. Y. Antirattling device. No. 1,351,453; Aug. 31; v. 277; p. 881.
Wells, George W., assignor to Walker Wells Company, Amesbury, Mass. Lock. No. 1,358,404; Nov. 9; v. 280; p. 295.
Wells, Harold D., Glens Falls, N. Y. Screening or filtering apparatus. No. 1,346,690; July 13; v. 276; p. 331.
Wells, Harold S. (See Macdermid, J. H., and Wells.)
Wells, Harry M., Omaha, Nebr. Burial-vault. No. 1,351,313; Aug. 31; v. 277; p. 853.
Wells, Joel C., Southbridge, Mass. Ophthalmic mounting. No. 1,332,242; Mar. 2; v. 272; p. 12.
Wells, Levi P., Gering, Nebr. End-gate fastener. No. 1,332,786; Mar. 2; v. 272; p. 117.
Wells, Levi P., Gering, Nebr. Combined clamp and wheel-guard for farm-wagons. No. 1,353,940; Sept. 28; v. 278; p. 575.
Wells, Loren S., New York, N. Y. System for recording electrical phenomena. No. 1,340,197; May 18; v. 274; p. 423.
Wells, Nettie J., administratrix. (See Wells, P. L., and Hunter.)
Wells, Otto. (See Maxim, Hosea F., assignor.)
Wells, Pierson L., deceased, and F. W. Hunter, Brooklyn; N. J. Wells, New York, and C. I. Wells, Brooklyn, N. Y., administrators, assignors to Miller Saw-Trimmer Company, Pittsburgh, Pa. Automatic feed and delivery platen-presses. No. 1,363,200; Dec. 21; v. 281; p. 537.
Wells, Raymond, Homer, N. Y., assignor to Cobwell Corporation, Cleveland, Ohio. Method of and apparatus for extracting oils and the like. No. 1,357,365; Nov. 2; v. 280; p. 31.
Wells, Sidney D., Madison, Wis., assignor to United States of America. Tearing-tester. No. 1,329,486; Feb. 3; v. 271; p. 27.
Wells, Sidney D., Madison, Wis., assignor to United States of America. Tearing-tester. No. 1,335,307; Mar. 30; v. 272; p. 810.
Wells, Walter W., assignor of one-half to J. C. L. Krebs, Clyde, Ohio. Variable-speed-governor control. No. 1,337,865; Apr. 20; v. 273; p. 544.
Wells, Wesley B., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Track instrument. No. 1,332,451; Mar. 2; v. 272; p. 53.
Wells, Willet C. and F. E., Columbus, Ohio. Apparatus for expressing wax from petroleum distillates. No. 1,344,745; June 29; v. 275; p. 861.
Wells, Willet C. and F. E., Columbus, Ohio. Expressing wax from petroleum distillates. No. 1,350,482; Aug. 24; v. 277; p. 630.
Wells, William S., South Bethlehem, Pa. Shuttle-tension. No. 1,354,362; Sept. 28; v. 278; p. 662.
Welsbach Company. (See Antrim, William D., assignor.)
Welsbach Company. (See Blumrick, George, assignor.)
Welshbach Company. (See Knoedler, Elmer L., assignor.)
Welsbach Company. (See Stites and Knoedler, assignors.)
Welser, George B., Jr., assignor to Chain Belt Company, Milwaukee, Wis. Conveying apparatus. No. 1,333,006; Mar. 9; v. 272; p. 210.
Welsh, Charles R. (See Reeler, John M., assignor.)
Welsh, Clyde L., Pittsburgh, Pa. Parachute. No. 1,327,932; Jan. 13; v. 270; p. 258.
Welsh, Clyde L., Pittsburgh, Pa. Automatic feeder for printing-presses. No. 1,360,699; Nov. 30; v. 280; p. 904.
Welsh, Harry G., Ashland, Ky. Apparatus for dislodging drilling-tools. No. 1,345,299; June 29; v. 275; p. 968.
Welsh, James B. (See Spoden, H. J., and Welsh.)
Welsh, Patrick, Morristown, N. J. Bolt for doors. No. 1,355,371; Oct. 12; v. 279; p. 235.
Welsh, William H., Collingswood, N. J. Case for matrix-carriers. No. 1,350,758; Aug. 24; v. 277; p. 683.
Welshausen, William, Allenhurst, N. J. Liquid-fuel burner. No. 1,334,006; Mar. 16; v. 272; p. 459.

Digitized by Google

Welshausen, William, Allenhurst, N. J. Device for supplying water to automobile-radiators. No. 1,336,769; Apr. 13; v. 273; p. 261.
Welter, Johannes F., Utrecht, Netherlands. Walking apparatus for the lame. No. 1,354,427; Sept. 28; v. 278; p. 675.
Welton, Harry A., Detroit, Mich., assignor to Morgan & Wright. Attachment for rubber-mixing mills. No. 1,345,426; July 6; v. 276; p. 20.
Welty, Helen E., Seattle, Wash. Clothes-button. No. 1,334,574; Mar. 23; v. 272; p. 612.
We Mett, Claude S. (See Clark, C. L., Perkins, and We Mett.)
Wemmell, William G., assignor to Webster Company, North Attleboro, Mass. Match-box. No. 1,344,746; June 29; v. 275; p. 861.
Wenberg, Oscar A., assignor to United States Wind Engine & Pump Company, Batavia, Ill. Tank-heater. No. 1,351,194; Aug. 31; v. 277; p. 830.
Wende, Herwann A., Buffalo, N. Y. Bell-ringing mechanism. No. 1,349,400; Aug. 10; v. 277; p. 300.
Wendelken, Charles, Tivoli, Tex. Bank-check writer. No. 1,340,428; May 18; v. 274; p. 467.
Wendelken, Charles, Robstown, Tex. Check-writer. No. 1,340,429; May 18; v. 274; p. 468.
Wenderhold, William, New York, N. Y., assignor to Cru Patents Corporation. Variable-speed-transmission device. No. 1,329,867; Feb. 3; v. 271; p. 98.
Wenderhold, William, New York, N. Y., assignor, by mesne assignments, to Cru Patents Corporation. Sprocket-cleaner for film-advancing apparatus. No. 1,334,337; Mar. 23; v. 272; p. 566.
Wenderhold, William, New York, N. Y., assignor to Cru Patents Corporation. Film-guide. No. 1,334,338; Mar. 23; v. 272; p. 567.
Wenderhold, William, New York, N. Y., assignor to Cru Patents Corporation. Automatic reel-threading device. No. 1,346,356; July 13; v. 276; p. 265.
Wenderhold, William, New York, N. Y., assignor to Cru Patents Corporation. Variable-speed mechanism. No. 1,346,357; July 13; v. 276; p. 265.
Wenderhold, William, New York, N. Y., assignor to Cru Patents Corporation. Signal device for kinetoscopes. No. 1,346,358; July 13; v. 276; p. 265.
Wenderhold, William, New York, N. Y., assignor to Cru Patents Corporation. Projection-lamp house. No. 1,346,359; July 13; v. 276; p. 265.
Wenderhold, William, New York, N. Y., assignor to Cru Patents Corporation. Reeling apparatus. No. 1,348,193 Aug. 3; v. 277; p. 12.
Wenderhold, William, New York, N. Y., assignor to Cru Patents Corporation. Automatic film-break detector for motion-picture machines. No. 1,358,806; Nov. 16; v. 280; p. 420.
Wenderhold, William, assignor, by mesne assignments, to Cru Patents Corporation, New York, N. Y. Film-reel. No. 1,360,838; Nov. 30; v. 280; p. 931.
Wenderhold, William, New York, N. Y., assignor to Cru Patents Corporation. Automatic film-threader. No. 1,361,123; Dec. 7; v. 281; p. 28.
Wendler, Frederick L. (See Dillon, James L., assignor.)
Wendling, Fred, Edmonton, Alberta, Canada. Anti-freezing device for automobiles. No. 1,355,069; Oct. 5; v. 279; p. 123.
Wendt, Alfred, Fresno, Calif. Flask for use in casting finger-rings and the like. No. 1,358,905; Nov. 16; v. 280; p. 440.
Wendtland, William, New York, N. Y. Screw-grinding machine. No. 1,328,469; Jan. 20; v. 270; p. 396.
Wendtland, William, Sr., Shiner, Tex. Plow. No. 1,342,836; June 8; v. 275; p. 293.
Wener, Nils, assignor to Svenska Aktiebolaget Mono, Stockholm, Sweden. Pumping device. No. 1,352,856; Sept. 14; v. 278; p. 258.
Wenger, Arthur W. (See Rodgers, E. E., and Wenger.)
Wenger, Solomon B., South English, Iowa. Drinking-fountain and feeder for poultry. No. 1,347,425; July 20; v. 276; p. 535.
Weniger, William, assignor of one-half to A. J. Elliott, Sheffield, England. Anchor. No. 1,362,209; Dec. 14; v. 281; p. 293.
Wennberg, Carl J., *et al.* (See Lea, Charles, assignor.)
Wennberg, Carl J., East Milton, assignor to A. Terkelsen, Newton, Mass. Toggle-press. No. 1,333,648; Mar. 16; v. 272; p. 392.
Wenner, Frank. (See Martel, F. J., Briggs, Macaulay, Wright, and Wenner.)
Wenner, Frank, Washington, D. C., and F. J. Martel, Hanover, N. H. Synchronized airplane-gun-control system. No. 1,342,729; June 8; v. 275; p. 271.
Wennerblad, Einar G., San Francisco, assignor of one-half to M. M. Cohn, Piedmont, Calif. Interfolding-machine. No. 1,358,665; Nov. 9; v. 280; p. 347.
Wennerstrom, Charles R., New York, N. Y. Extension-table. No. 1,342,481; June 8; v. 275; p. 222.
Wennerström, Karl G., Bartange, Sweden. Producing cement of liquid slags in electric furnaces. No. 1,343,948; June 22; v. 275; p. 640.
Wenning, Jean C. A., assignor to Elsässische Maschinenbau Gesellschaft, Mülhausen, Alsace Lorraine, Germany. Weft-replenishing mechanism. No. 1,355,022; Oct. 5; v. 279; p. 114.
Wenning, John, New York, N. Y. Automobile-lock. No. 1,343,990; June 22; v. 275; p. 648.
Went, Alfred, Fresno, Calif. Pattern for casting band and other rings and parts thereof. No. 1,358,906; Nov. 16; v. 280; p. 440.
Wente, Edward C., New Haven, Conn., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-transmitter. No. 1,333,744; Mar. 16; v. 272; p. 410.
Wentsch, John G., Fort Wayne, Ind. Sliding-door latch. No. 1,360,839; Nov. 30; v. 280; p. 931.
Wentworth, Frank T., Bloomfield, N. J. Luggage-carrier. No. 1,328,863; Jan. 27; v. 270; p. 499.
Wentworth, Harry A., assignor to The Government of the United States, Spokane, Wash. Spotter's training device. No. 1,352,773; Sept. 14; v. 273; p. 242.
Wentworth, Jesse S., Norwood, Ohio. Can-forming mandrel. No. 1,342,575; June 8; v. 275; p. 241.
Wentworth, Jesse S., Decatur, Ill. Leather-stitching machine. No. 1,356,246; Oct. 19; v. 279; p. 447.
Wentworth, Jesse S., Decatur, Ill., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Assembling-machine. No. 1,336,875; Apr. 13; v. 273; p. 282.
Wentworth, Pearl J. (See Bertrand, F. E., and Wentworth.)
Wentworth, Pearl J., Fort Thomas, Ky. Making shoes and other similar forms of footwear. No. 1,353,877; Sept. 28; v. 278; p. 563.
Wentworth, Samuel J., Newport, Ky., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Making shoe-blanks. No. 1,361,941; Dec. 14; v. 281; p. 239.
Wentworth, Samuel J., Newport, Ky., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Heel-machine. No. 1,361,942; Dec. 14; v. 281; p. 239.
Wentz, Earle J., Gaffney, S. C., assignor to Hopedale Manufacturing Company, Milford, Mass. Feeler-loom. No. 1,347,726; July 27; v. 276; p. 651.
Wentz, Harry D. (See Johnson, C. G., and Allen, assignors.)
Wentz, Jere L., assignor to Portable Machinery Company, Inc., Passaic, N. J. Conveyer. (Reissue.) No. 14,977; Nov. 2; v. 280; p. 141.
Werder, John F., assignor to Zip Manufacturing Company, Denver, Colo. Grinding compound. No. 1,353,197; Sept. 21; v. 278; p. 385.
Werdhoff, Albert B., Detroit, Mich., assignor to The Studebaker Corporation. Transmission-sliding-gear lock. No. 1,360,338; Nov. 30; v. 280; p. 883.
Weremko, Joseph M., Herrick, Ohio. Match-box. No. 1,349,243; Aug. 10; v. 277; p. 269.
Wermager, Henry C., Emerson, N. D. Attachment for plows. No. 1,337,421; Apr. 20; v. 273; p. 460.
Werner, Albert, Berlin-Friedenau, assignor to Siemens-Schuckertwerke, G. m. b. H., Berlin, Germany. Shaft and flywheel coupling. No. 1,332,966; Mar. 9; v. 272; p. 203.
Werner, Alfred E., Philadelphia, Pa. Toy aeroplane. No. 1,341,624; May 25; v. 274; p. 766.
Werner, Carl, Omaha, Nebr. Plumbing device. No. 1,340,995; May 25; v. 274; p. 645.
Werner, Carl H., Waterloo, Iowa. Wire-clamp-fastening means. No. 1,347,196; July 20; v. 276; p. 489.
Werner, Ernest E., St. Louis, Mo. Treating straw and the like for making paper-pulp. No. 1,347,979; July 27; v. 276; p. 701.
Werner, Ernest E., St. Louis, Mo. Apparatus for the treatment of gases by electric discharge. No. 1,363,827; Dec. 28; v. 281; p. 698.
Werner Film-Protector Manufacturing Company. (See Werner, Paul, assignor.)
Werner, H. E., and J. H. Mitchell, Houston, Tex. Wire-forming machine. No. 1,333,049; Mar. 9; v. 272; p. 218.
Werner, Henry, Hartford, Wis. Latch. No. 1,356,479; Oct. 19; v. 279; p. 491.
Werner, Joseph R., Granite City, Ill. Hinge. No. 1,341,690; June 1; v. 275; p. 15.
Werner, Paul, assignor to Werner Film-Protector Manufacturing Company, St. Louis, Mo. Machine for applying emollient to motion-picture films. No. 1,351,408; Aug. 31; v. 277; p. 873.
Werner, Paul, assignor to Werner Film-Protector Manufacturing Company, St. Louis, Mo. Apparatus for softening motion-picture films. No. 1,352,712; Sept. 14; v. 278; p. 229.
Werner, Paul, assignor to Werner Film-Protector Manufacturing Company, St. Louis, Mo. Apparatus for softening motion-picture films. No. 1,352,713; Sept. 14; v. 278; p. 229.
Werner, Paul, assignor to Werner Film-Protector Manufacturing Company, St. Louis, Mo. Emollient for motion-picture films. No. 1,354,009; Sept. 28; v. 278; p. 589.
Wernery, Lester A., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Stencil-machine. No. 1,341,402; May 25; v. 274; p. 724.

Digitized by Google

Alphabetical list of patentees—Continued.

Wernery, Lester A., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,347,197; July 20; v. 276; p. 489.
Wernick, Philip, Toronto, Ontario, Canada. Level. No. 1,359,444; Nov. 16; v. 280; p. 550.
Wernimont, Henry G., Washington, D. C. Jar opener or wrench. No. 1,330,505; Feb. 10; v. 271; p. 248.
Wernimont, Henry G., Washington, D. C. Can-opener. No. 1,331,605; Feb. 24; v. 271; p. 543.
Wernimont, Henry G., Washington, D. C. Clothesline. No. 1,333,520; Mar. 9; v. 272; p. 306.
Wernimont, Henry G., Washington, D. C. Combination-tool. No. 1,334,425; Mar. 23; v. 272; p. 584.
Wernimont, Henry G., Washington, D. C. Coupling or snap. No. 1,337,577; Apr. 20; v. 273; p. 489.
Wersel, Frank B., Jr., Cincinnati, Ohio. Davenport. No. 1,342,785; June 8; v. 275; p. 283.
Wert, Cyrus S., Kendallville, Ind. Cushion-tire. No. 1,329,331; Jan. 27; v. 270; p. 586.
Wertenbruch, Antony, assignor to The Larrowe Milling Company, Detroit, Mich. Pulp-press. No. 1,354,528; Oct. 5; v. 279; p. 16.
Wertman, Milton A., Dayton, assignor to The Biggs-Watterson Co., Cleveland, Ohio. Automatic machine-tool. No. 1,351,884; Sept. 7; v. 278; p. 35.
Wertz, Peter, Pittsburgh, Pa. Automobile-signal. No. 1,356,896; Oct. 26; v. 279; p. 620.
Wertz, Thomas, and F. W. Springmeyer; said Wertz assignor of one-sixth to E. H. Maune and one-sixth to J. Crinnion, St. Louis, Mo. Window-sash stop. No. 1,337,495; Apr. 20; v. 273; p. 474.
Wescott, William B., Wellesley, assignor to Kalmus, Comstock & Wescott, Incorporated, Boston, Mass. Lens-mount. No. 1,331,174; Feb. 17; v. 271; p. 443.
Wescott, William B., Wellesley, assignor to Kalmus, Comstock & Wescott, Inc., Boston, Mass. Trocar. No. 1,333,745; Mar. 16; v. 272; p. 410.
Wescott, William B., Wellesley, assignor to Kalmus, Comstock & Wescott, Inc., Boston, Mass. Trocar. No. 1,348,194; Aug. 3; v. 277; p. 12.
Wesley, John B., Bethelridge, Ky. Clock-striking mechanism. No. 1,361,424; Dec. 7; v. 281; p. 89.
Wesolowski, Peter J., Detroit, Mich. Truck. No. 1,334,476; Mar. 23; v. 272; p. 592.
Wessel, Carl. (See Still, C., and Wessel.)
Wessell, Fernando A., New York, N. Y. Hammer rest-rail for grand-piano actions. No. 1,353,442; Sept. 21; v. 278; p. 432.
Wessels, Bernhardt L., Woodhaven, N. Y. Wire-fence anchoring and supporting stake. No. 1,345,650; July 6; v. 276; p. 62.
Wesson, Laurence G., Cleveland, and Z. Jeffries, East Cleveland, Ohio. Strop-dressing. No. 1,327,648; Jan. 13; v. 270; p. 205.
Wesson, Laurence G., Chevy Chase, Md. Composition for liberating sulfur dioxid. No. 1,356,029; Oct. 19; v. 279; p. 403.
Wesson, Laurence G., Chevy Chase, Md. Sulfur-dioxid-liberating composition. No. 1,356,030; Oct. 19; v. 279; p. 403.
West, Alver L. (See Pontius, M. R., and West.)
West, Arthur, Canandaigua, N. Y. Non-slip grip for bath-tubs. No. 1,329,487; Feb. 3; v. 271; p. 27.
West, Augustus A., Philadelphia, Pa. Mechanical movement for combined clutch and transmission. No. 1,362,655; Dec. 21; v. 281; p. 431.
West Coast Kalsomine Company. (See Benniman and Zoph, assignors.)
West Coast Roofing and Manufacturing Company, The. (See Goldberg, Solomon H., assignor.)
West, Elbert L., Somerville, and J. West, assignors to Premier Register Table Company, Boston, Mass. Printer's table. No. 1,343,600; June 15; v. 275; p. 506.
West Gravitiser Corporation, The. (See Anderson, Gideon, assignor.)
West, Hubbard C., Mount Vernon, N. Y. Lubricant-retaining cap for timers. No. 1,351,818; Sept. 7; v. 278; p. 21.
West, James. (See West, Elbert L. and J.)
West, Lawrence B., assignor to One Fire Asphalt Plant Company, Chattanooga, Tenn. Apparatus for preparing paving materials. No. 1,351,361; Aug. 31; v. 277; p. 864.
West, Merle J., Milwaukee, Wis. Coin-delivering device. No. 1,363,828; Dec. 28; v. 281; p. 699.
West, Sol, 2d. (See Tiner, John F., assignor.)
West Virginia Pulp & Paper Company. (See Ten Broeck, F. G., and Weston, assignors.)
West, Walter D., Upper Strasburg, Pa. Animal-trap. No. 1,360,161; Nov. 23; v. 280; p. 730.
West, William. (See Anderson, Gideon, assignor.)
West, William H., Stockton, Calif. Valve-cap. No. 1,353,878; Sept. 28; v. 278; p. 563.
West, William W., Dunn, N. C. Ironing-board. No. 1,362,278; Dec. 14; v. 281; p. 306.
Westall, John, Fall River, Mass. Crude-oil burner. No. 1,348,528; Aug. 3; v. 277; p. 77.
Westberg, Elise, Trondhjem, assignor to H. Norloff, Drammen, Norway. Key. No. 1,338,542; Apr. 27; v. 273; p. 741.
Westbury, William, Okmulgee, Okla. Drawing glass cylinders. No. 1,344,325; June 22; v. 275; p. 713.
Wester, Emerick, Easton, Pa. Milk-bottle cap. No. 1,352,334; Sept. 7; v. 278; p. 119.
Wester, Felix S., Vaasa, Finland. Clotheshook. No. 1,333,692; Mar. 16; v. 272; p. 400.
Wester, Theodore C., Baltimore, Md. Can-sealing composition. No. 1,341,489; May 25; v. 274; p. 742.
Wester, Theodore C., Baltimore, Md. Sealing composition. No. 1,341,490; May 25; v. 724; p. 742.
Westerbeck, Frederick, St. Louis, Mo. Sheet-metal can. No. 1,347,665; July 27; v. 276; p. 639.
Westerberg, Carl A. A., Stockholm, Sweden. Apparatus for firing with pulverized or breeze-formed fuels. No. 1,344,666; June 29; v. 275; p. 846.
Westerberg, George M. (See Bauman, H. G., and Westerberg.)
Westerdahl, Anton R., Guantanamo Bay, Cuba. Trolley. No. 1,355,023; Oct. 5; v. 279; p. 114.
Westergard, Christ, Denbigh, N. D. Spring-mounting for vehicle-bodies. No. 1,354,082; Sept. 28; v. 278; p. 695.
Westergaard, Peter J., Reinbeck, Iowa. Resilient tire. No. 1,329,215; Jan. 27; v. 270; p. 565.
Western Brick Company. (See Butterworth, Frank W., assignor.)
Western Electric Co. (See Smith, Virgil L., assignor.)
Western Electric Co. (See Thomas, George B., assignor.)
Western Electric Company. (See Adams, Arthur H., assignor.)
Western Electric Company. (See Adams, Edgar W., assignor.)
Western Electric Company. (See Albright, Henry F., assignor.)
Western Electric Company. (See Andrick, Wallace P., assignor.)
Western Electric Company. (See Arnold, Harold D., assignor.)
Western Electric Company. (See Atwood, George F., assignor.)
Western Electric Company. (See Bassett, George O., assignor.)
Western Electric Company. (See Beck, William O., assignor.)
Western Electric Company. (See Bell, John H., assignor.)
Western Electric Company. (See Blount, Harry, assignor.)
Western Electric Company. (See Booth, Wilfred E., assignor.)
Western Electric Company. (See Booth, William T., assignor.)
Western Electric Company. (See Boving, Henrik, assignor.)
Western Electric Company. (See Britten, William G., assignor.)
Western Electric Company. (See Bullard, Albert M., assignor.)
Western Electric Company. (See Carroll, Louis W., assignor.)
Western Electric Company. (See Clark, Edgar H., assignor.)
Western Electric Company. (See Clausen, H. P., and Goodrum, assignors.)
Western Electric Company. (See Clausen, Henry P., assignor.)
Western Electric Company. (See Clement, Louis M., assignor.)
Western Electric Company. (See Conway, Roy D., assignor.)
Western Electric Company. (See Crawford, Walter G., assignor.)
Western Electric Company. (See Cummings, George C., assignor.)
Western Electric Company. (See De Vignier, R. M., assignor.)
Western Electric Company. (See Dixon, A. F., and Reeves, assignors.)
Western Electric Company. (See Dixon, Amos F., assignor.)
Western Electric Company. (See Dodge, William L., assignor.)
Western Electric Company. (See Dowd, Andrew D., assignor.)
Western Electric Company. (See Dunham, Bert G., assignor.)
Western Electric Company. (See Dyson, Alfred H., assignor.)
Western Electric Company. (See Eaves, Augustus J., assignor.)
Western Electric Company. (See Edwards, George D., assignor.)
Western Electric Company. (See Egerton, Henry C., assignor.)
Western Electric Company. (See Englund, Carl R., assignor.)
Western Electric Company. (See Field, Joseph C., assignor.)
Western Electric Company. (See Fowler, Clarence B., assignor.)
Western Electric Company. (See Freile, Bruce, assignor.)
Western Electric Company. (See Gardanier, Percy M., assignor.)
Western Electric Company. (See Gilson, Albert F. F., assignor.)

Digitized by Google

Alphabetical list of patentees—Continued.

Western Electric Company. (See Goddard, Frederick M., assignor.)
Western Electric Company. (See Goodrum, C. L., and Kropp, assignors.)
Western Electric Company. (See Goodrum, Charles L., assignor.)
Western Electric Company. (See Griffin, James T., assignor.)
Western Electric Company. (See Hall, John A., assignor.)
Western Electric Company. (See Harlow, John B., assignor.)
Western Electric Company. (See Harris, Jonathan W., assignor.)
Western Electric Company. (See Harrison, Henry C., assignor.)
Western Electric Company. (See Harrison, William H., assignor.)
Western Electric Company. (See Hartley, Ralph V. L., assignor.)
Western Electric Company. (See Hazard, Allen B., assignor.)
Western Electric Company. (See Heising, Raymond A., assignor.)
Western Electric Company. (See Hendry, William F., assignor.)
Western Electric Company. (See Herrmann, Raymond R., assignor.)
Western Electric Company. (See Heydt, George H., assignor.)
Western Electric Company. (See Hosford, William F., assignor.)
Western Electric Company. (See Houskeeper, William G., assignor.)
Western Electric Company. (See Jenkins, George M. O., assignor.)
Western Electric Company. (See Johnson, Lewis H., assignor.)
Western Electric Company. (See Keckler, Charles W., assignor.)
Western Electric Company. (See Kelsall, George A., assignor.)
Western Electric Company. (See Kendall, Burton W., assignor.)
Western Electric Company. (See Kendall, James B., assignor.)
Western Electric Company. (See Kerr, Mark B., assignor.)
Western Electric Company. (See Kiesel, Walter C., assignor.)
Western Electric Company. (See Kochendorfer, Frederic S., assignor.)
Western Electric Company. (See Lattig, J. W., and Goodrum, assignors.)
Western Electric Company. (See Lundell, A. E., and Clark, assignors.)
Western Electric Company. (See Lundell, A. E., and Hancock, assignors.)
Western Electric Company. (See Lundell, A. E., and Sperry, assignors.)
Western Electric Company. (See Lundell, A. E., and Thompson, assignors.)
Western Electric Company. (See Lundell, Alben E., assignor.)
Western Electric Company. (See Lundell and Stearn, assignors.)
Western Electric Company. (See Lundius, Eric R., assignor.)
Western Electric Company. (See McAuliffe, John C., assignor.)
Western Electric Company. (See McMurry, Fred R., assignor.)
Western Electric Company. (See McQuarrie, James L., assignor.)
Western Electric Company. (See MacDougall, Harry W., assignor.)
Western Electric Company. (See Matthies, William H., assignor.)
Western Electric Company. (See Mason, Summer R., assignor.)
Western Electric Company. (See Matthies, William B., assignor.)
Western Electric Company. (See May, David T., assignor.)
Western Electric Company. (See Miller, Daniel D., assignor.)
Western Electric Company. (See Mohn, Finn, assignor.)
Western Electric Company. (See Moran, John F., assignor.)
Western Electric Company. (See Mortimer, Louis A., assignor.)
Western Electric Company. (See Nelson, Carl A., assignor.)
Western Electric Company. (See Nelson, Edward L., assignor.)
Western Electric Company. (See Nordenswan, Robert, assignor.)
Western Electric Company. (See Nordenswan and Winckel, assignors.)
Western Electric Company. (See Perry, George E., assignor.)
Western Electric Company. (See Pinkler, Arthur P., assignor.)
Western Electric Company. (See Polinkowsky, Lipa, assignor.)
Western Electric Company. (See Powell, Winfred T., assignor.)
Western Electric Company. (See Pratt, Edward J., assignor.)
Western Electric Company. (See Rainey, Paul M., assignor.)
Western Electric Company. (See Reeves, Frank N., assignor.)
Western Electric Company. (See Reynolds, J. N., and Hearn, assignors.)
Western Electric Company. (See Reynolds, J. N., and Stearn, assignors.)
Western Electric Company. (See Reynolds, John N., assignor.)
Western Electric Company. (See Scheuch, William A., assignor.)
Western Electric Company. (See Scriven, Edward O., assignor.)
Western Electric Company. (See Shackelton, William J., assignor.)
Western Electric Company. (See Smith, William F., assignor.)
Western Electric Company. (See Smythe, Edwin H., assignor.)
Western Electric Company. (See Spencer, Charles G., assignor.)
Western Electric Company. (See Sperry, Arthur B., assignor.)
Western Electric Company. (See Stearn, Franklin A., assignor.)
Western Electric Company. (See Stoekle, Erwin R., assignor.)
Western Electric Company. (See Stoller, Hugh M., assignor.)
Western Electric Company. (See Stull, John S., assignor.)
Western Electric Company. (See Swoboda, Adolph R., assignor.)
Western Electric Company. (See Taggart, Dawson M., assignor.)
Western Electric Company. (See Tanner, De Witt C., assignor.)
Western Electric Company. (See Timm, William A., assignor.)
Western Electric Company. (See Titus, William A., assignor.)
Western Electric Company. (See Trimble, Russell F., assignor.)
Western Electric Company. (See Ulrich, Horace W., assignor.)
Western Electric Company. (See Van Amstel, Tudor, assignor.)
Western Electric Company. (See Van der Bijl, Hendrik J., assignor.)
Western Electric Company. (See Waldron, Fred D., assignor.)
Western Electric Company. (See Weaver, William C., assignor.)
Western Electric Company. (See Wente, Edward C., assignor.)
Western Electric Company. (See White, Charles, assignor.)
Western Electric Company. (See Whiting, Donald F., assignor.)
Western Electric Company. (See Wilbur, R. S., and Harrison, assignors.)
Western Electric Company. (See Wilbur, Ray S., assignor.)
Western Electric Company. (See Wilbur, Ray S., and Lovelee, assignors.)
Western Electric Company. (See Willenbruch, Walther, assignor.)
Western Electric Company. (See Williams and Quass, assignors.)
Western Electric Company. (See Williams, S. B., Jr., and Albert, assignors.)
Western Electric Company. (See Williams, S. B., Jr., and Dunham, assignors.)
Western Electric Company. (See Williams, Samuel B., Jr., assignor.)
Western Electric Company. (See Wilson, William, assignor.)
Western Electric Company. (See Wotton, James A., assignor.)
Western Electric Company. (See Wright, Joseph L., assignor.)
Western Electric Company, Inc. (See Bell, John H., assignor.)
Western Electric Company Incorporated. (See Bellamy, H. T., and Sweely, assignors.)
Western Electric Company Incorporated. (See Keckler, Charles W., assignor.)
Western Electric Company Incorporated. (See Kochendorfer, F. S., and Balduf, assignors.)
Western Electric & Mfg. Company. (See Brackett, Quincy A., assignor.)
Western Felt Works. (See Backstrom, Fridolf F., assignor.)
Western Gas Construction Company. (See Stone, Thomas W., assignor.)
Western Hog Oiler Co. (See Busby, Harley S., assignor.)

Digitized by Google

Alphabetical list of patentees—Continued.

Western Manufacturing Co. (See McMullin, Joseph B., assignor.)
Western Rubber Company. (See Hazetine, H. H., and Gregory, assignors.)
Western Stamping Company. (See Bick, Otto G., assignor.)
Western Steel Auto-Wheel Company. (See Williams, John W., assignor.)
Western Telegraph Company, The. (See Murray, Donald, assignor.)
Western Tire & Rubber Works. (See Brooks, Roscoe A., assignor.)
Western Union Telegraph Company. (See Beasley, Harry K., assignor.)
Western Union Telegraph Company. (See Howe, Paul J., assignor.)
Western Union Telegraph Company, The. (See Milnor, Joseph W., assignor.)
Western Vulcanizer Manufacturing Company. (See Bitter, Arthur A., assignor.)
Western Vulcanizer Manufacturing Company. (See Fontaine, Walter R., assignor.)
Western Vulcanizer Manufacturing Company. (See Maier, Fred, assignor.)
Western Vulcanizer Manufacturing Company. (See Wheelock, Herbert K., assignor.)
Western Wheeled Scraper Company. (See Benbow, James D., assignor.)
Western Wheeled Scraper Company. (See McKnight, Thomas R., assignor.)
Western Wheeled Scraper Corporation. (See Moats, O. E., and Benbow, assignors.)
Western Wheeled Scraper Company. (See Moats, O. E., Rhodes, and Benbow, assignors.)
Western Wheeled Scraper Company. (See Moats, Ortus E., assignor.)
Western Wheeled Scraper Company. (See Rhodes, Jay B., assignor.)
Western Wire Products Company. (See Young, H. M., and Regan, assignors.)
Westfall, Frederick C., assignor to T. N. Benedict Mfg. Co., East Syracuse, N. Y. Pump for beverage-dispensing machines or fountains. No. 1,361,943; Dec. 14; v. 281; p. 239.
Westfall, Will H. (See Levinson and Westfall.)
Westhafer, James S., Braman, Okla. Toothbrush. No. 1,340,093; May 11; v. 274; p. 346.
Westinghouse Air Brake Company, The. (See Brown, Thomas R., assignor.)
Westinghouse Air Brake Company. (See Thomas, Thomas H., assignor.)
Westinghouse Air Brake Company, The. (See Turner, Walter V., assignor.)
Westinghouse Air Brake Company, The. (See Woernley, Harry F., assignor.)
Westinghouse Air Spring Company, The. (See Liebau, Richard, assignor.)
Westinghouse Electric and Manufacturing Co. (See Candee, Andrew H., assignor.)
Westinghouse Electric and Manufacturing Co. (See Chantermerle, Joseph L., assignor.)
Westinghouse Electric & Manufacturing Co. (See Davis, D. C., and Fortescue, assignors.)
Westinghouse Electric & Manufacturing Co. (See Ehrhart, R. M., and Graham, assignors.)
Westinghouse Electric & Manufacturing Co. (See Ehrhart, Raymond N., assignor.)
Westinghouse Electric & Manufacturing Co. (See Fahnoe, Hans, assignor.)
Westinghouse Electric & Manufacturing Co. (See Flanders, Warren B., assignor.)
Westinghouse Electric & Manufacturing Co. (See Fortescue, Charles L., assignor.)
Westinghouse Electric & Manufacturing Co. (See Hellmund, R. E., and Ferris, assignors.)
Westinghouse Electric & Manufacturing Co. (See Holy, George H. F., assignor.)
Westinghouse Electric & Manufacturing Co. (See Jones, Carl G., assignor.)
Westinghouse Electric & Manufacturing Co. (See Kasley, Alexander T., assignor.)
Westinghouse Electric & Manufacturing Co. (See Kries, Lawrence F., assignor.)
Westinghouse Electric & Manufacturing Co. (See Peters, John F., assignor.)
Westinghouse Electric & Manufacturing Co. (See McCulloch, Leon, assignor.)
Westinghouse Electric & Manufacturing Co. (See Newberry, Frank D., assignor.)
Westinghouse Electric and Manufacturing Company. (See Aalborg, Christian, assignor.)
Westinghouse Electric and Manufacturing Company. (See Albrecht, John H., assignor.)
Westinghouse Electric and Manufacturing Company. (See Albrecht and Lum, assignors.)
Westinghouse Electric & Manufacturing Company. (See Allcutt, Chester T., assignor.)
Westinghouse Electric & Manufacturing Company. (See Allen, Vero M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Aspinwall, Louis M., assignor.)
Westinghouse Electric and Manufacturing Company. (See Atherton, Alfred L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Baker, Ralph, assignor.)
Westinghouse Electric and Manufacturing Company. (See Bakken, Andrew H., assignor.)
Westinghouse Electric and Manufacturing Company. (See Barclay, D., and Dudley, assignors.)
Westinghouse Electric & Manufacturing Company. (See Bastian, Arthur J., assignor.)
Westinghouse Electric and Manufacturing Company. (See Berst, Charles B., assignor.)
Westinghouse Electric and Manufacturing Company. (See Boddie, Clarence A., assignor.)
Westinghouse Electric and Manufacturing Company. (See Boggs, Lemuel S., assignor.)
Westinghouse Electric and Manufacturing Company. (See Boothman, Lawrence, assignors.)
Westinghouse Electric & Manufacturing Company. (See Bouton, Edgar M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Brace, Porter H., assignor.)
Westinghouse Electric and Manufacturing Company. (See Bradshaw, W. M., and Mylins, assignors.)
Westinghouse Electric and Manufacturing Company. (See Bradshaw, William M., assignor.)
Westinghouse Electric and Manufacturing Company. (See Bright, G., Holy, and Hardcastle, assignors.)
Westinghouse Electric & Manufacturing Company. (See Bright, Graham, assignor.)
Westinghouse Electric & Manufacturing Company. (See Brooke, Wilfred, assignor.)
Westinghouse Electric and Manufacturing Company. (See Brown, Harold W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Brown, James M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Candee, Andrew H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Candy, Albert M., assignor.)
Westinghouse Electric and Manufacturing Company. (See Chubb, Lewis W., assignor.)
Westinghouse Electric and Manufacturing Company. (See Clarke, John A., Jr., assignor.)
Westinghouse Electric and Manufacturing Company. (See Colby, Ora A., assignor.)
Westinghouse Electric and Manufacturing Company. (See Collinson, John, assignor.)
Westinghouse Electric & Manufacturing Company. (See Conrad, F., and Kinney, assignors.)
Westinghouse Electric and Manufacturing Company. (See Conrad, Frank, assignor.)
Westinghouse Electric & Manufacturing Company. (See Copley, Almon W., assignor.)
Westinghouse Electric and Manufacturing Company. (See Coulson, John, assignor.)
Westinghouse Electric and Manufacturing Company. (See Dapprich, Carl E. L., assignor.)
Westinghouse Electric and Manufacturing Company. (See Darrah, William A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Davis, David C., assignor.)
Westinghouse Electric and Manufacturing Company. (See Dean, John S., assignor.)
Westinghouse Electric and Manufacturing Company. (See De Camp, Ray E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Dennert, Edward C., assignor.)
Westinghouse Electric and Manufacturing Company. (See Deutsch, Isidor, assignor.)
Westinghouse Electric and Manufacturing Company. (See Dick, William A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Dickey, Daniel A., assignor.)
Westinghouse Electric and Manufacturing Company. (See Dillon, Edward P., assignor.)
Westinghouse Electric & Manufacturing Company. (See Dobson, John V., assignor.)
Westinghouse Electric and Manufacturing Company. (See Du Pasquier, A., and Slater, assignors.)
Westinghouse Electric & Manufacturing Company. (See Eaton, George M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Eckmann, Siegmund H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Egan, William F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Ehrhart, Raymond N., assignor.)
Westinghouse Electric and Manufacturing Company. (See Eschholz, O. H., and Fahnoe, assignors.)
Westinghouse Electric & Manufacturing Company. (See Eschholz, Otto H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Fahnoe, Hans, assignor.)
Westinghouse Electric & Manufacturing Company. (See Ferris, Ralph E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Fortescue, C. L., and Chubb, assignors.)
Westinghouse Electric and Manufacturing Company. (See Fortescue, Charles L., assignor.)
Westinghouse Electric and Manufacturing Company. (See Frederick, Louis T., assignor.)

Digitized by Google

Alphabetical list of patentees—Continued.

Westinghouse Electric and Manufacturing Company. (See Gazda, Adolph A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hall, A. J., and Whittaker, assignors.)
Westinghouse Electric & Manufacturing Company. (See Hall, Arthur J., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hallock, Fletcher D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hayes, Stephen Q., assignor.)
Westinghouse Electric and Manufacturing Company. (See Hellmund and Moore, assignors.)
Westinghouse Electric & Manufacturing Company. (See Hellmund, R. E., and Moore, assignors.)
Westinghouse Electric and Manufacturing Company. (See Hellmund, Rudolf E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hengstenberg, Paul M., assignor.)
Westinghouse Electric and Manufacturing Company. (See Herr, Herbert T., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hester, Edgar A., assignor.)
Westinghouse Electric and Manufacturing Company. (See Hill, Charles W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hipple, Oliver P., assignor.)
Westinghouse Electric and Manufacturing Company. (See Hodgkins, Charles H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hodgkinson, Francis, assignor.)
Westinghouse Electric and Manufacturing Company. (See Holt, Frederick B., assignor.)
Westinghouse Electric & Manufacturing Company. (See Holy, George H. F., assignor.)
Westinghouse Electric and Manufacturing Company. (See Huey, George W., assignor.)
Westinghouse Electric and Manufacturing Company. (See James, Henry D., assignor.)
Westinghouse Electric and Manufacturing Company. (See Jennings, Oliver S., assignor.)
Westinghouse Electric & Manufacturing Company. (See Jones, Jesse L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Jungk, Herbert G., assignor.)
Westinghouse Electric & Manufacturing Company. (See von Kando, Kalman, assignor.)
Westinghouse Electric & Manufacturing Company. (See Kasley, Alexander T., assignor.)
Westinghouse Electric and Manufacturing Company. (See Keith, Harold L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Kemp, Robert, assignor.)
Westinghouse Electric and Manufacturing Company. (See Kempton, Willard H., assignor.)
Westinghouse Electric and Manufacturing Company. (See Kenney, James R., assignor.)
Westinghouse Electric and Manufacturing Company. (See Kintzing, Reese T., assignor.)
Westinghouse Electric & Manufacturing Company. (See Kothny, Gottdank L. E., assignor.)
Westinghouse Electric and Manufacturing Company. (See Kronfeld, Gustav L. S., assignor.)
Westinghouse Electric and Manufacturing Company. (See Kuyser, Jan A., assignor.)
Westinghouse Electric and Manufacturing Company. (See La Bar, Bert G., assignor.)
Westinghouse Electric and Manufacturing Company. (See Lamme, B. G., and Sykes, assignors.)
Westinghouse Electric and Manufacturing Company. (See Lammers, Edwins S., Jr., assignor.)
Westinghouse Electric and Manufacturing Company. (See Langley, Jesse R., assignor.)
Westinghouse Air Brake Company, The. (See Saunders, Lawrence D., assignor.)
Westinghouse Electric and Manufacturing Company. (See Lewis, Harry A.)
Westinghouse Electric and Manufacturing Company. (See Little, George M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Lovell, William V., assignor.)
Westinghouse Electric and Manufacturing Company. (See Luckey, George P., assignor.)
Westinghouse Electric and Manufacturing Company. (See Lum, Walter O., assignor.)
Westinghouse Electric & Manufacturing Company. (See Lundgren, Edwin, assignor.)
Westinghouse Electric & Manufacturing Company. (See McClain, John R., assignor.)
Westinghouse Electric and Manufacturing Company. (See MacDonald, Howard G., assignor.)
Westinghouse Electric and Manufacturing Company. (See MacGahan, Paul, assignor.)
Westinghouse Electric and Manufacturing Company. (See Mahoney, J. N., and Austin, assignors.)
Westinghouse Electric and Manufacturing Company. (See Mardis, Paul L., assignor.)
Westinghouse Electric and Manufacturing Company. (See Meyer, Friedrich W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Meyer, Harry R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Miller, Charles F., assignor.)
Westinghouse Electric and Manufacturing Company. (See Mills, Chester B., assignor.)
Westinghouse Electric & Manufacturing Company. (See Miller, Frederick H., assignor.)
Westinghouse Electric and Manufacturing Company. (See Miller, John H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Miller, L., and Brooke, assignors.)
Westinghouse Electric & Manufacturing Company. (See Mills, C. B., and Wilson, assignors.)
Westinghouse Electric & Manufacturing Company. (See Mills, Chester B., assignor.)
Westinghouse Electric and Manufacturing Company. (See Mills and Nikonow, assignors.) (Reissue.)
Westinghouse Electric and Manufacturing Company. (See Moard, Ferdinand G., assignor.)
Westinghouse Electric and Manufacturing Company. (See Moore, Benjamin S., assignor.)
Westinghouse Electric & Manufacturing Company. (See Nicholson, Frank T. and J. M., assignors.)
Westinghouse Electric and Manufacturing Company. (See Packer, A. H., and Patten, assignors.)
Westinghouse Electric & Manufacturing Company. (See Pearce, Herbert, assignor.)
Westinghouse Electric and Manufacturing Company. (See Perkins, Laurence M., assignor.)
Westinghouse Electric and Manufacturing Company. (See Peters, John F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Poole, Arthur F., assignor.)
Westinghouse Electric and Manufacturing Company. (See Pukerud, Thomas S., assignor.)
Westinghouse Electric & Manufacturing Company. (See Randall, Karl C., assignor.)
Westinghouse Electric and Manufacturing Company. (See Riley, Lynn G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Roberts, Walter S., assignor.)
Westinghouse Electric and Manufacturing Company. (See Rosebourne and Couse, assignors.)
Westinghouse Electric and Manufacturing Company. (See Sass, Frank, assignor.)
Westinghouse Electric and Manufacturing Company. (See Schaake, William, assignor.)
Westinghouse Electric and Manufacturing Company. (See Schairer, Otto S., assignor.)
Westinghouse Electric and Manufacturing Company. (See Schenck and Simmon, assignors.)
Westinghouse Electric & Manufacturing Company. (See Schmidt, Henry F., assignor.)
Westinghouse Electric and Manufacturing Company. (See Schoepf, Theodore H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Schroeder, Giulio, assignor.)
Westinghouse Electric & Manufacturing Company. (See Scott, Wirt S., assignor.)
Westinghouse Electric & Manufacturing Company. (See Shepard, Victor J., assignor.)
Westinghouse Electric & Manufacturing Company. (See Shrader, James E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Simmon, Karl A., assignor.)
Westinghouse Electric and Manufacturing Company. (See Simmon and Schenck, assignors.)
Westinghouse Electric & Manufacturing Company. (See Slepian, Joseph, assignor.)
Westinghouse Electric and Manufacturing Company. (See Slocum, George E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Smith, Benjamin H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Smith, Gerald F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Smith, Walter H., assignor.)
Westinghouse Electric and Manufacturing Company. (See Starker, C. W., and Hodgkins, assignors.)
Westinghouse Electric & Manufacturing Company. (See Starker, Charles W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Steinrok, Charles L., assignor.)
Westinghouse Electric and Manufacturing Company. (See Stone, Cecil, assignor.)
Westinghouse Electric & Manufacturing Company. (See Storer, Norman W., assignor.)
Westinghouse Electric and Manufacturing Company. (See Suczek, Robert, assignor.)
Westinghouse Electric & Manufacturing Company. (See Talley, Randal E., assignor.)
Westinghouse Electric and Manufacturing Company. (See Taylor, Carl P., assignor.)
Westinghouse Electric and Manufacturing Company. (See Taylor, Horace V. S., assignor.)
Westinghouse Electric & Manufacturing Company. (See Thomas, Phillips, assignor.)
Westinghouse Electric & Manufacturing Company. (See Thompson, Russell G., assignor.)
Westinghouse Electric and Manufacturing Company. (See Thornton, Frank, Jr., assignor.)
Westinghouse Electric and Manufacturing Company. (See Tirrill, Allen A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Wakefield, Richard E. B., assignor.)

Digitized by Google

Alphabetical list of patentees—Continued.

Westinghouse Electric & Manufacturing Company. (See Walker, Miles, assignor.)
Westinghouse Electric and Manufacturing Company. (See Webster, John E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Whittaker, Charles C., assignor.)
Westinghouse Electric and Manufacturing Company. (See Wilson, Charles E., assignor.)
Westinghouse Electric and Manufacturing Company. (See Wilson, Charles E., and Parker, assignors.)
Westinghouse Electric and Manufacturing Company. (See Woodward, Walter R., assignor.)
Westinghouse Electric and Manufacturing Company. (See Wurts, Thomas C., assignor.)
Westinghouse Electric and Manufacturing Company. (See Yardley, John L. M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Yensen, Trygve D., assignor.)
Westinghouse Electric & Mfg. Company. (See Johnson, Josiah F., assignor.)
Westinghouse Electric Products Company. (See Thornton F., Jr., and Forshee, assignors.)
Westinghouse Gear & Dynamometer Company, The. (See Hodgkinson, Francis, assignor.)
Westinghouse Lamp Company. (See Birdsall, Wilfred T., assignor.)
Westinghouse Lamp Company. (See Dennington, Arthur R., assignor.)
Westinghouse Lamp Company. (See Eisler, Charles, assignor.)
Westinghouse Lamp Company. (See Jambor, John E., assignor.) (Reissue.)
Westinghouse Lamp Company. (See Madden, Harry D., assignor.)
Westinghouse Lamp Company. (See Myers, R. E., and Hall, assignors.)
Westinghouse Union Battery Company. (See Norris, Paul E., assignor.)
Westgard, Anton, Tacoma, Wash. Saw-tooth. No. 1,340,128; May 11; v. 274; p. 353.
Westlake, Charles, Jr. (See Jones, Llewellyn, assignor.)
Westlake, Charles T., assignor to Commonwealth Steel Company, St. Louis, Mo. Car-truck. No. 1,358,043; Nov. 9; v. 280; p. 222.
Westlake, Charles T., and C. S. Shallenberger, assignors to Transom Draft Gear Company, St. Louis, Mo. Draw-bar yoke. No. 1,357,603; Nov. 2; v. 280; p. 76.
Westlake, Don R., Arlington, N. J. Shoestring-retainer. No. 1,335,471; Mar. 30; v. 272; p. 840.
Westlake Machine Company, The. (See Kadow, August, assignor.)
Westling, Eric H., Antioch, Calif. Obtaining potassium and other alkali-metal compounds. No. 1,349,113; Aug. 10; v. 277; p. 242.
Westling, Herman, Hudson, Mass. Overshoe. No. 1,339,994; May 11; v. 274; p. 327.
Westling, Herman, assignor to Apsley Rubber Company, Hudson, Mass. Shoe. No. 1,349,744; Aug. 17; v. 277; p. 440.
Westling, Herman, assignor to Apsley Rubber Company, Hudson, Mass. Shoe. No. 1,349,745; Aug. 17; v. 277; p. 441.
Westman, Olaf J., Lincoln, Nebr. Shoring. No. 1,330,290; Feb. 10; v. 271; p. 207.
Weston, Alonzo H., and R. H. Peters, Buffalo, N. Y., assignors to J. P. Northey and G. Grant, Toronto, Ontario, Canada. Clamp. No. 1,336,667; Apr. 13; v. 273; p. 241.
Weston, Louis B. (See Collins, J. F., and Weston.)
Weston, Milton T. (See Ten Broeck, F. G., and Weston.)
Weston, Milton T., New York, N. Y. Antiskid attachment for automobiles. No. 1,355,372; Oct. 12; v. 279; p. 236.
Weston, Reginald G., Denver, Colo. Horn-shaping device. No. 1,334,200; Mar. 16; v. 272; p. 494.
Westrich, Charles L., Glendale, N. Y. Composition of matter for coating surfaces. No. 1,360,066; Nov. 23; v. 280; p. 711.
Westrum, Fredrick L., Hinsdale, Mont. Automobile convertible bed. No. 1,360,162; Nov. 23; v. 280; p. 731.
Westwood, Coral N., Victoria, British Columbia, Canada. Course-finder. No. 1,350,581; Aug. 24; v. 277; p. 650.
Westwood, James, Brighouse, England. Adjustable set-square. No. 1,342,730; June 8; v. 275; p. 271.
Wetherbee, Herbert E. (See Sheard and Wetherbee.)
Wetherill, Robert, Jr. (See Rogers, J. F., McClimon, and Wetherill.)
Wetherill, Roy, Kansas City, Mo. Signal device for automobiles. No. 1,339,938; May 11; v. 274; p. 317.
Wetmore, Charles P., assignor to Durant Manufacturing Company, Milwaukee, Wis. Counter. No. 1,336,113; Apr. 6; v. 273; p. 78.
Wetmore, Charles P., assignor, by mesne assignments, to Koehring Machine Company, Milwaukee, Wis. Timing mechanism for intermittently-fed machines. No. 1,338,761; May 4; v. 274; p. 21.
Wetmore, Charles P., assignor to Wetmore Reamer Company, Milwaukee, Wis. Reamer. No. 1,361,209; Dec. 7; v. 281; p. 45.
Wetmore, Miner P., Newark, N. J., assignor to Hygrade Engineering Co., Inc. Stem and mount for incandescent-lamp filaments. No. 1,359,134; Nov. 16; v. 280; p. 482.
Wetmore, Miner P., Newark, N. J., assignor to Hygrade Engineering Co., Inc. Apparatus for making leading-in-wires for incandescent lamps. No. 1,359,135; Nov. 16; v. 280; p. 482.
Wetmore, Miner P., Newark, N. J., assignor to Hygrade Engineering Co. Inc. Welding apparatus. No. 1,361,652; Dec. 7; v. 281; p. 134.
Wetmore Reamer Company. (See Wetmore, Charles P., assignor.)
Wetsler, Anna E., Portland, Oreg. Pickling-weight. No. 1,353,104; Sept. 14; v. 278; p. 307.
Wetstein, Adolph. (See Stoeser, Walter G., assignor.)
Wetter, Ralph E., assignor to Universal Traffic Control Company, Dallas, Tex. Signaling device. No. 1,330,929; Feb. 17; v. 271; p. 397.
Wettervik, Axel, Iron River, Mich. Winter road or snow and ice melting machine. No. 1,352,567; Sept. 14; v. 278; p. 200.
Wettig, Heinrich, assignor to F. A. Topf & Lochne, Erfurt, Germany. Drying apparatus. No. 1,359,301; Nov. 16; v. 280; p. 514.
Wettlaufer, George, Saginaw, Mich. Stacker. No. 1,355,632; Oct. 12; v. 279; p. 285.
Wettstein, Thomas F., Keokuk, Iowa, assignor to United Lead Company, New York, N. Y. Hard lead alloy. No. 1,360,339; Nov. 30; v. 280; p. 833.
Wetzel, Lewis C., assignor to Toledo Scale Company, Toledo, Ohio. Automatic weighing-scale. No. 1,351,080; Aug. 31; v. 277; p. 807.
Wetzel, Myron H. (See White, U. B., and Wetzel.)
Wetzler, Mary C., Los Angeles, Calif. Fire-hydrant. No. 1,360,340; Nov. 30; v. 280; p. 833.
Wetzstein, Bruno, Neuhausen, Switzerland. Stopping mechanism for fabric-frame-moving mechanism. No. 1,339,049; May 4; v. 274; p. 74.
Wexler, Benjamin, assignor to The Peelle Company, Brooklyn, N. Y. Electric interlock for counterbalanced elevator-doors. No. 1,328,309; Jan. 20; v. 270; p. 366.
Wexler, Benjamin, assignor to The Peelle Company, Brooklyn, N. Y. Fireproof elevator-door. No. 1,342,482; June 8; v. 275; p. 223.
Wexler, Benjamin, assignor to The Peelle Company, Brooklyn, N. Y. Controller for elevator-cars. No. 1,357,014; Oct. 26; v. 279; p. 643.
Wey, Alfred, Schwarzenbach, Germany. Spinning-frame. No. 1,362,768; Dec. 21; v. 281; p. 453.
Weyand, Dallas C., Glenwood Springs, Colo. Farm-tractor. No. 1,334,201; Mar. 16; v. 272; p. 494.
Whalen, Edward J., Syracuse, N. Y. Concrete-culvert form. No. 1,332,243; Mar. 2; v. 272; p. 13.
Whalen, James, Chicago, Ill. Aircraft. No. 1,332,787; Mar. 2; v. 272; p. 117.
Whaley, James S., Dover, Ohio. Hoop-rolling device. No. 1,361,944; Dec. 14; v. 281; p. 240.
Whall, Richard A., Athol, Mass. Outer garment. No. 1,340,351; May 18; v. 274; p. 452.
Whalley, Robert D., Providence, R. I. Vulcanizing-press detector. No. 1,337,172; Apr. 13; v. 273; p. 338.
Wharton, Edward R., Medford, assignor to Gillette Safety Razor Company, Boston, Mass. Safety-razor. No. 1,328,024; Jan. 13; v. 270; p. 275.
Wharton, William, Jr., & Co. (See Psilander, Charles A., assignor.)
Wharton, William, Jr., & Co., Incorporated. (See Stothoff, W. S., and Psilander, assignors.)
Wheal, Walter, Worcester, assignor to Heenan & Froude Limited, Manchester, England. Match-making machine. No. 1,337,109; Apr. 13; v. 273; p. 327.
Wheary, George H., Racine, Wis. Garment-retainer for trunks. No. 1,328,470; Jan. 20; v. 270; p. 396.
Wheary, George H., Racine, Wis. Trunk shoe-holder. No. 1,332,012; Feb. 24; v. 271; p. 621.
Wheary, George H., Racine, Wis. Trunk-wardrobe-section protector. No. 1,339,533; May 11; v. 274; p. 240.
Wheary, George H., Racine, Wis. Combined trunk-collar and track. No. 1,339,534; May 11; v. 274; p. 240.
Wheat, Grant, Corry, Pa. Electric lamp. No. 1,361,557; Dec. 7; v. 281; p. 117.
Wheater, John W., Bootle, near Liverpool, England. Apparatus in the manufacture of ice. No. 1,330,930; Feb. 17; v. 271; p. 397.
Wheatley, Daniel Y., Hythe, England. Balance-plow. No. 1,348,464; Aug. 3; v. 277; p. 65.
Wheatley, Daniel Y., Hythe, England. Balance agricultural implement. No. 1,353,366; Sept. 21; v. 278; p. 417.
Wheatley, Leander D., Pendleton, Oreg. Advertising device. No. 1,344,250; June 22; v. 275; p. 698.
Wheeler, Alfred W., San Francisco, Calif. Double-seaming machine. No. 1,343,538; June 15; v. 275; p. 494.
Wheeler, Alvin S., Chapel Hill, N. C. Dyestuffs and making same. No. 1,327,260; Jan. 6; v. 270; p. 71.
Wheeler, Asa A. (See Simpson, Judson L., assignor.)
Wheeler, C. H., Manufacturing Company. (See Suczek, Robert, assignor.)
Wheeler, Charles M., Bellingham, Wash. Machine for forming and cutting doughnuts and other cakes. No. 1,328,025; Jan. 13; v. 270; p. 275.
Wheeler, E. I., *et al.* (See Mapson, Robert L., assignor.)
Wheeler, Frank G., assignor to Bleach Process Company, Appleton, Wis. Method of and apparatus for producing purified salt. No. 1,342,519; June 8; v. 275; p. 230.

Digitized by Google

Wheeler, Frank L., Spencer, Ind. Device for securing extra leaves in books. No. 1,333,521; Mar. 9; v. 272; p. 306.
Wheeler, Frank T., assignor to Trumbull Electric Mfg. Co., Plainville, Conn. Electric switch. No. 1,334,063; Mar. 16; v. 272; p. 469.
Wheeler, Frederick G., Lowell, Mass. Motion-picture-film-feeding mechanism. No. 1,332,700; Mar. 2; v. 272; p. 100.
Wheeler, Gage M., Steilacoom, Wash. Life-preserving device. No. 1,361,210; Dec. 7; v. 281; p. 45.
Wheeler, Harold H., and H. J. Nilson, Loraine, N. D. Grain-door. No. 1,355,874; Oct. 19; v. 279; p. 373.
Wheeler, Harold S., Tacoma, Wash. Building and paving block. (Reissue.) No. 14,904; June 29; v. 275; p. 976.
Wheeler, Harry B., Chicago, Ill. Sound-insulating device for building constructions. No. 1,342,610; June 8; v. 275; p. 247.
Wheeler, Henry J., Buffalo, N. Y. Machine for trimming the ends of articles. No. 1,346,288; July 13; v. 276; p. 252.
Wheeler, James A, Mangum, Okla. Loading and unloading device. No. 1,330,667; Feb. 10; v. 271; p. 278.
Wheeler, James S., Los Angeles, Calif. Mowing-machine. No. 1,358,351; Nov. 9; v. 280; p. 284.
Wheeler, John D. (See Sampson, Phillip O., assignor.)
Wheeler, Joseph C. (See Pace, Carl D., assignor.)
Wheeler, Laura A., Minneapolis, Minn. Dress-marker. No. 1,338,602; Apr. 27; v. 273; p. 752.
Wheeler, Mary, and E. M. Bates, Los Angeles, Calif. Snap-fastener. No. 1,357,918; Nov. 2; v. 280; p. 137.
Wheeler, Morris J., Portland, Oreg. Impregnator. No. 1,358,130; Nov. 9; v. 280; p. 240.
Wheeler & Motter Mercantile Company. (See Miller, Cyrus M., Jr., assignor.)
Wheeler, Ray M. (See Pomeroy, H. D., Avery, and Wheeler.)
Wheeler, Raymond C., Norwich, England. Sash-fastener. No. 1,356,677; Oct. 26; v. 279; p. 577.
Wheeler, Robert S., Grenloch, N. J. Cotton-gin. No. 1,340,691; May 18; v. 274; p. 517.
Wheeler, Thomas, New London, Conn. Fuel-injector for engines. No. 1,362,210; Dec. 14; v. 281; p. 293.
Wheeler, Wellington Brazil, El Segundo, Calif. Advertising device. No. 1,353,105; Sept. 14; v. 278; p. 307.
Wheeler, William F. (See Davidson, H. F., and Wheeler.)
Wheeler, Zenas B., Woodland, Me. Draft-equalizer. No. 1,334,202; Mar. 16; v. 272; p. 495.
Wheeling Stove & Range Company, The. (See Reppetto, Harvey B., assignor.)
Wheeling Tile Company. (See Amos, Frank M., assignor.)
Wheelock, Harold F., assignor to The Swan Process Oil Company, Denver, Colo. Unctuous composition of matter for mechanical usages. No. 1,362,161; Dec. 14; v. 281; p. 283.
Wheelock, Herbert K., Long Beach, Calif. Tire. No. 1,336,452; Apr. 13; v. 273; p. 201.
Wheelock, Herbert K., Los Angeles, Calif., assignor, by mesne assignments, to Western Vulcanizer Manufacturing Company, Chicago, Ill. Vulcanizer. No. 1,340,641; May 18; v. 274; p. 507.
Wheelock, Herbert K., Chicago, Ill., assignor to Western Vulcanizer Manufacturing Company. Vulcanizer. No. 1,340,642; May 18; v. 274; p. 508.
Wheelock, William A., New York, N. Y. Bottle top and lock. No. 1,358,352; Nov. 9; v. 280; p. 284.
Wheelwright, George W., Newark, N. J., assignor to American Can Company, New York, N. Y. Article-feeding mechanism. No. 1,330,964; Feb. 17; v. 271; p. 404.
Wheildon, William M. (See Angier, E. H., and Wheildon.)
Wheildon, William M. (See Warren, H. E., and Wheildon.)
Wheildon, William M., Ashland, assignor to E. H. Angier, Framingham, Mass. Means for delivering material from rolls. No. 1,361,945; Dec. 14; v. 281; p. 240.
Whelan, Eugene B., Omaha, Nebr. Steam-circulating by-pass and relief valve. No. 1,351,314; Aug. 31; v. 277; p. 853.
Whelan, Eugene B., Omaha, Nebr. Combined by-pass and relief valve. No. 1,353,296; Sept. 21; v. 278; p. 404.
Whelan, William, St. Joseph, Mo. Electrical heating system. No. 1,329,488; Feb. 3; v. 271; p. 27.
Whelpley, Eli D., and W. E. Winters, Oneida, N. Y. Electric plug. No. 1,337,422; Apr. 20; v. 273; p. 460
Wherry, John A., New Orleans, La. Collating device for typewriters and adding-machines. No. 1,336,453; Apr. 13; v. 273; p. 201.
Wherry, John A., New Orleans, La. Collating device for typewriters and adding-machines. No. 1,336,454; Apr. 13; v. 273; p. 201.
Wherry, John A., New Orleans, La. Fishing-reel. No. 1,347,529; July 27; v. 276; p. 611.
Wherry, John A., New Orleans, La. Collating device for typewriters. No. 1,351,081; Aug. 31; v. 277; p. 807.
Wherry, John A., New Orleans, La., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,351,464; Aug. 31; v. 277; p. 882.
Whetstone, Charles. (See Warner, M., and Whetstone.)
Whetstone, Frank M., Chicago, Ill., assignor to Milwaukee Corrugating Company, Greenfield, Wis. Expanded-metal machine. No. 1,353,198; Sept. 21; v. 278; p. 385.
While, Francis B., and T. O'Sullivan, Southampton, assignors of one-third to G. Sizer, Southampton, England. Bucket elevator. No. 1,357,919; Nov. 2; v. 280; p. 137.
Whipp, John W., Wade, Okla. Tack-holder. No. 1,327,749; Jan. 13; v. 270; p. 224.
Whipple, Leland B., Rochester, N. Y., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me. Sheet-metal shears. No. 1,353,367; Sept. 21; v. 278; p. 418.
Whipple, Leland B., Rochester, N. Y., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me. Manufacture of articles having a systematic resemblance to a pattern. No. 1,362,183; Dec. 14; v. 281; p. 287.
Whipple, Merton E., Sterling, Ill. Window shade and curtain support. No. 1,363,489; Dec. 28; v. 281; p. 682.
Whisler, Chauncy P., assignor to Miller Rubber Company, Akron, Ohio. Mold. No. 1,343,425; June 15; v. 275; p. 471.
Whistler, David B., assignor to The American Railways Equipment Company, Dayton, Ohio. Combination fare-box and transfer-machine. No. 1,355,873; Oct. 19; v. 279; p. 373.
Whistler, David B., and C. W. Ripsch, assignors to The American Railways Equipment Co., Dayton, Ohio. Registering fare-box. No. 1,355,875; Oct. 19; v. 279; p. 373.
Whistler, George F. (See Bolger, Robert S., assignor.)
Whitaker, Dorothy V. D., Philadelphia, Pa. Sleeve-protector. No. 1,344,011; June 22; v. 275; p. 652.
Whitaker, Fletcher A., Stockton, Calif. Method and apparatus for trimming irrigation and drainage ditches. No. 1,351,014; Aug. 24; v. 277; p. 731.
Whitaker, Fletcher W., Memphis, Tenn. Tractor-wheel. No. 1,348,070; July 27; v. 276; p. 720.
Whitaker, Frank P., *et al.*, executors. (See Whitaker, Frederick B.)
Whitaker, Frederick B., deceased; F. P. Whitaker, executor, and E. G. Griffiths, formerly Whitaker, executrix, Rugby, England. System for protecting electric cables. No. 1,337,866; Apr. 20; v. 273; p. 544.
Whitaker, George S., Gloversville, N. Y. Vacuum-cup-fastening means for dental suction-plates. No. 1,343,949; June 22; v. 275; p. 640.
Whitaker, George S., Gloversville, N. Y. Dental suction-plate. No. 1,343,950; June 22; v. 275; p. 640.
Whitaker-Glessner Company. (See Hill, Hugh G., assignor.)
Whitaker, Harold, Lightcliffe, near Halifax, assignor to Bradford Dyers' Association, Limited, Bradford, England. Apparatus for singeing fabrics. No. 1,350,582; Aug. 24; v. 277; p. 650.
Whitaker, Harold P., Peoria, Ill. Bed-lamp. No. 1,337,867; Apr. 20; v. 273; p. 545.
Whitaker, James F., Hoopeston, assignor to Sprague Canning Machinery Company, Chicago, Ill. Process-kettle. No. 1,361,946; Dec. 14; v. 281; p. 240.
Whitaker, John. (See Kramer, Francis J., assignor.)
Whitaker, John, North Wales, Pa., assignor to Safe-Guard Check Writer Company Inc., Lansdale, Pa. Printing device. No. 1,360,067; Nov. 23; v. 280; p. 711.
Whitaker, John, North Wales, assignor to Safe-Guard Check-Writer Company, Lansdale, Pa. Inking attachment for check-writers, &c. No. 1,363,069; Dec. 21; v. 281; p. 511.
Whitaker, Lawrence L., Windber, Pa. Toy vehicle. No. 1,359,302; Nov. 16; v. 280; p. 514.
Whitaker, Milton C., and W. F. Rittman, New York, N. Y., assignors to Synthetic Hydro-Carbon Company, Pittsburgh, Pa. Manufacture of gas. No. 1,327,001; Jan. 6; v. 270; p. 23.
Whitaker, Milton C., and W. F. Rittman, New York, N. Y. assignors to Synthetic Hydro-Carbon Company, Pittsburgh, Pa. Apparatus for manufacture of gas. No. 1,348,766; Aug. 3; v. 277; p. 122.
Whitaker, Morris M. (See Clark, F. H., and Whitaker.)
Whitaker, Norman L., *et al.* (See Miles, William C., assignor.)
Whitaker, Norman T., New York, N. Y. Motion-picture apparatus. No. 1,329,216; Jan. 27; v. 270; p. 566.
Whitaker, Richard, Jr., assignor to Manufacturers Iron & Steel Company, New Brunswick, N. J. Pliers. No. 1,346,392; July 13; v. 276; p. 271.
Whitaker, Samuel T., assignor of fifty-one per cent to R. B. Small, Columbus, Ga. Bottle-closure attachment. No. 1,346,621; July 13; v. 276; p. 317.
Whitall Tatum Company. (See Rothwell R., and Cuttrell, assignors.)
Whitbeck, Frank. (See Nevers and Whitbeck.)
Whitbeck, John E., Rochester, N. Y. Radiator. No 1,346,577; July 13; v. 276; p. 309.
Whitcomb, Charles O., Washington, Mich. Railway-tie. No. 1,351,819; Sept. 7; v. 278; p. 21.
Whitcomb, Fred J., assignor to The Teagle Company, Cleveland, Ohio. Electric generator. No. 1,337,739; Apr. 20; v. 273; p. 520.
Whitcomb, James, assignor of one-third to E. C. Sipple, one-third to B. F. Heffner, one-twelfth to R. S. Buchtel, one-eighth to J. M. Davis, and one-eighth to C. G. Lane, Hastings, Nebr. Internal-combustion engine. No. 1,333,693; Mar. 16; v. 272; p. 400.
Whitcomb, Russell. (See Goertz, F., and Whitcomb.)
Whitcomb, Russell, Elizabeth, N. J. Container. No. 1,362,975; Dec. 21; v. 281; p. 492.

Digitized by Google

Alphabetical list of patentees—Continued.

White, Addison O., High Point, N. C. Machine for burning in bearings and limbering up motors. No. 1,348,611; Aug. 3; v. 277; p. 94.
White, Alf C., Boone, Iowa. Throttle-valve for locomotives. No. 1,333,357; Mar. 9; v. 272; p. 276.
White, Andrew M., Grayton, Md. Fastening for horseshoes. No. 1,332,089; Feb. 24; v. 271; p. 635.
White, Arthur, Sheboygan Falls, Wis. Wheeled toy. No. 1,362,769; Dec. 21; v. 281; p. 453.
White, Arthur H., assignor of one-half to A. J. Flowers, Pittsburgh, Pa. Roll-cleaning device. No. 1,357,207; Oct. 26; v. 279; p. 680.
White, Arthur O., Greensburg, Ind. Plow. No. 1,337,868; Apr. 20; v. 273; p. 545.
White, Chantilla E. (See Buchanan, J. F., and White.)
White, Charles, Glen Cove, N. Y. Internal-combustion engine. No. 1,351,980; Sept. 7; v. 278; p. 53.
White, Charles, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,352,568; Sept. 14; v. 278; p. 201.
White, Charles D., Norwich, Conn. Spinning-ring. No. 1,351,595; Aug. 31; v. 277; p. 910.
White, Charles E., Moline, Ill. Friction-clutch. No. 1,330,965; Feb. 17; v. 271; p. 404.
White, Charles E., Orange, N. J., assignor to Radium Luminous Material Corporation, New York, N. Y. Luminous marking device. No. 1,346,360; July 13; v. 276; p. 266.
White, Charles E., assignor to Deere & Mansur Company, Moline, Ill. Disk-harrow. No. 1,351,501; Aug. 31; v. 277; p. 891.
White, Charles G., Flint, Mich. Paper-hanging machine. No. 1,360,163; Nov. 23; v. 280; p. 731.
White, Charles J., Pawnee, La. Tractor. No. 1,349,930; Aug. 17; v. 277; p. 475.
White, Charles J., Pawnee, La. Plow structure. No. 1,359,850; Nov. 23; v. 280; p. 669.
White, Churchill, Talmage, Ky. Hemp-brake. No. 1,358,907; Nov. 16; v. 280; p. 440.
White, Clifford L., Stockdale, Ohio. Electric switch. No. 1,336,455; Apr. 13; v. 273; p. 201.
White, Clinton E., Newark, N. J. Adjustable spool for music-rolls. No. 1,333,953; Mar. 16; v. 272; p. 448.
White, Clinton E., Newark, N. J. Means for reproducing text and other matter on music-sheets for automatically-played musical instruments. No. 1,363,941; Dec. 28; v. 281; p. 720.
White, David G., Boston, Mass. Reversible toothbrush. No. 1,337,178; Apr. 13; v. 273; p. 339.
White, David R., Chicago, Ill. Plant-irrigating device. No. 1,342,786; June 8; v. 275; p. 283.
White, Dell J., Green Bay, Wis. Lock-nut. No. 1,355,373; Oct. 12; v. 279; p. 236.
White, D'Orsay M., assignor to La Fayette Motors Company, Indianapolis, Ind. Fan construction. No. 1,357,366; Nov. 2; v. 280; p. 32.
White, Earl A., Urbana, Ill. Multiple-team hitch. No. 1,333,234; Mar. 9; v. 272; p. 252.
White, Earl D., Delta, Colo. Tire-pressure gage. No. 1,345,570; July 6; v. 276; p. 48.
White, Edward F., Norfolk, Va. Antiskid-chain. No. 1,360,068; Nov. 23; v. 280; p. 712.
White, Edward H., *et al.* (See Farmsworth, William W., assignor.)
White, Edward N., *et al.*, trustees. (See Hennessy, D. E., and McGeorge, assignors.)
White, Elizabeth, Boone, Iowa. Stove. No. 1,330,017; Feb. 3; v. 271; p. 125.
White, Ernest C., assignor to Duplexalite Corporation, New York, N. Y. Grip-fitting for electric cord. No. 1,342,787; June 8; v. 275; p. 283.
White, Ernest C., assignor to Electric Outlet Company, Inc., New York, N. Y. Electrical connecting and supporting device. No. 1,361,425; Dec. 7; v. 281; p. 89.
White, Ernest C., assignor to Electric Outlet Company, Inc., New York, N. Y. Electrical connecting and supporting device. No. 1,361,426; Dec. 7; v. 281; p. 90.
White, Ernest C., assignor to Electric Outlet Company, Inc., New York, N. Y. Electrical connecting and supporting device. No. 1,362,067; Dec. 14; v. 281; p. 264.
White, Ernest C., assignor to Electric Outlet Company, Inc., New York, N. Y. Electrical connecting and supporting device. No. 1,363,942; Dec. 28; v. 281; p. 720.
White, Ernest H., Oswego, N. Y. Hand and arm protector. No. 1,360,840; Nov. 30; v. 280; p. 932.
White, Everett H., St. Paul, Minn. Damper-operating device. No. 1,359,941; Nov. 23; v. 280; p. 687.
White, Floyd N., Bailey, Tex. Combined swingletree and evener. No. 1,334,203; Mar. 16; v. 272; p. 495.
White, Frank A., assignor of one-half to A. H. Voigt, Cleveland, Ohio. Machine for dispensing ice-cream. No. 1,347,727; July 27; v. 276; p. 652.
White, Frank C., Meriden, Conn. Phonograph-cabinet. No. 1,347,067; July 20; v. 276; p. 465.
White, Frank D., Akron, Ohio. Sectional chimney. No. 1,347,980; July 27; v. 276; p. 702.
White, Frank L., Louisville, Ky. Spring-tire. No. 1,331,687; Feb. 24; v. 271; p. 559.
White, Frank M., Canton, Ohio. Shock-absorber. No. 1,358,666; Nov. 9; v. 280; p. 347.
White, Frank O. (See Gervig, Philip M., assignor.)
White, Frank O., Belleville, Ill. Ventilated upholstered furniture. No. 1,339,611; May 11; v. 274; p. 255.
White, Fred E., assignor to Central Oil & Gas Stove Co., Gardner, Mass. Threadless rod or bolt. No. 1,348,767; Aug. 3; v. 277; p. 123.
White, Fred E., assignor to Central Oil & Gas Stove Company, Gardner, Mass. Air-distributer for oil-stoves. No. 1,354,083; Sept. 28; v. 278; p. 606.
White, Fred G., assignor of one-half to E. W. Engle, Kansas City, Mo. Electric switch-box. No. 1,328,606; Jan. 20; v. 270; p. 422.
White, Fred G., Kansas City, Mo., assignor to The Bishop Fan a-Fume Mfg. Co., Phoenix, Ariz. Diffuser. No. 1,357,535; Nov. 2; v. 280; p. 63.
White, Frederick H., Chicago, Ill. Photoprinting-machine. No. 1,340,511; May 18; v. 274; p. 482.
White, Frederick M., and H. E. Rieger, San Diego, Calif. Apparatus for covering submerged piles with concrete. No. 1,339,535; May 11; v. 274; p. 240.
White Frost Refrigerator Company. (See Boeck, Charles H., assignor.)
White, Geo. E. (See Martin, W. A., and Roebuck, assignors.)
White, George, Rock Island, Ill. Light. No. 1,359,136; Nov. 16; v. 280; p. 482.
White, George, Jersey City, N. J., G. S. Baker, and G. R. Baker, Willesden Junction, London, England, assignors to P. D. Panoulias, Jersey City, N. J. Machine for coating confectionery. No. 1,331,548; Feb. 24; v. 271; p. 532.
White, George J., Chicago, Ill. Plumbing-fitting. No. 1,361,124; Dec. 7; v. 281; p. 29.
White, Gilbert E., Des Moines, Iowa. Manifold for internal-combustion engines. No. 1,332,278; Mar. 2; v. 272; p. 19.
White, Gilbert E., Des Moines, Iowa. Automatic pipe-vise. No. 1,359,775; Nov. 23; v. 280; p. 654.
White, Gilbert J., Oceanside, Calif. Valve-lifter. No. 1,361,427; Dec. 7; v. 281; p. 90.
White, Gus J. (See Joyner and White.)
White, Harlan B., Crothersville, Ind. Basket. No. 1,351,195; Aug. 31; v. 277; p. 830.
White, Henry W., New Orleans, La. Material for building construction. No. 1,353,619; Sept. 21; v. 278; p. 468.
White, Henry W., and A. T. Sheldon, Moline, Ill. Antiskid device. No. 1,336,175; Apr. 6; v. 273; p. 89.
White, Holman H., assignor to Robin Hood Toy Company, Sturgeon Bay, Wis. Toy gun or pistol. No. 1,329,734; Feb. 3; v. 271; p. 72.
White, J. J., Manufacturing Company. (See White, Joseph J., assignor.)
White, J. Samuel, & Company. (See Forster and Brown, assignors.)
White, James B., Fort Wayne, Ind. Egg-case. No. 1,339,430; May 11; v. 274; p. 220.
White, James D., Albany, N. Y. Cylinder-lining for engines. No. 1,361,297; Dec. 7; v. 281; p. 63.
White, James W., Bainbridge, Ga. Window. No. 1,344,529; June 22; v. 275; p. 754.
White, John, Edinburgh, Scotland. Separator for paper-pulp. No. 1,333,287; Mar. 9; v. 272; p. 262.
White, John A. (See Ohliger, L. P., Willson, White, and Reid.)
White, John C. (See Wilkinson, John B., assignor.)
White, John F., assignor, by mesne assignments, to White Products Company, Chicago, Ill. Latch and keeper. No. 1,334,575; Mar. 23; v. 272; p. 612.
White, John F., assignor, by mesne assignments, to White Products Company, Chicago, Ill. Windshield-cleaner. No. 1,349,989; Aug. 17; v. 277; p. 487.
White, John J., Ashland, Mass. Wrapping material. No. 1,341,955; June 1; v. 275; p. 67.
White, John T., New York, N. Y. Kicking mule. No. 1,342,882; June 8; v. 275; p. 302.
White, John W., assignor of one-half to W. D. Rose, Lewistown, Mont. Sectional wheel-rim. No. 1,340,094; May 11; v. 274; p. 346.
White, Joseph, Piscataway township, assignor to Hall Printing Press Company, Dunellen, N. J. Inking mechanism. No. 1,341,691; June 1; v. 275; p. 15.
White, Joseph, Piscataway township, assignor to Hall Printing Press Company, Dunellen, N. J. Inking-roller-driving mechanism. No. 1,341,692; June 1; v. 275; p. 15.
White, Joseph, Piscataway township, N. J., assignor to Hall Printing Press Company, Dunellen, N. J. Plate-clamp. No. 1,345,300; June 29; v. 275; p. 968.
White, Joseph, Piscataway township, and W. Eckhard, Plainfield, assignors to Hall Printing Press Company, Dunellen, N. J. Sheet-gage. No. 1,341,694; June 1; v. 275; p. 16.
White, Joseph, Middlesex, assignor to Hall Printing Press Company, Dunellen, N. J. Printing-press. No. 1,341,693; June 1; v. 275; p. 16.
White, Joseph E., Colo, Iowa. Flashing. No. 1,331,835; Feb. 24; v. 271; p. 587.
White, Joseph J., assignor to J. J. White Manufacturing Company, Providence, R. I. Safety-catch for breast-pins and the like. No. 1,359,008; Nov. 16; v. 280; p. 459.

Digitized by Google

White, Joseph J., assignor to J. J. White Manufacturing Co., Providence R. I. Safety-catch for jewelry. No. 1,362,656; Dec. 21; v. 281; p. 431.
White, Joseph J., Jr., Erie, Pa., assignor of one-half to H. G. Green, Columbus, Ohio. Bituminous pitch and sulfur composition and making same. No. 1,353,003; Sept. 14; v. 278; p. 287.
White, M. C., Company. (See White, Morris C., assignor.)
White, Morris C., assignor to M. C. White Company, Los Angeles, Calif. Compressor. No. 1,329,646; Feb. 3; v. 271; p. 56.
White, Morris C., assignor to M. C. White Company, Los Angeles, Calif. Compressor and motor-starter. No. 1,351,269; Aug. 31; v. 277; p. 844.
White Motor Company, The. (See Farmer, Frank H., assignor.)
White, Nelson, and C. G. Tiefel, assignors to Todd Protectograph Company, Inc., Rochester, N. Y. Checkwriter. No. 1,329,449; Feb. 3; v. 271; p. 20.
White, Otis. (See Bard, J. W., and White.)
White, Otis, Springfield, and H. W. Young, Chicago, assignors to Sangamo Electric Company, Springfield, Ill. Graphic recording instrument. No. 1,347,884; July 27; v. 276; p. 683.
White, Parren M., Ravenna, Ohio. Stair-climbing hand-truck. No. 1,334,726; Mar. 23; v. 272; p. 639.
White, Paul H., Indianapolis, Ind., and F. H. Gerdeman, Findlay, Ohio, assignors, by mesne assignments, to Indiana Silo and Tractor Company, Anderson, Ind. Clutch. No. 1,361,213; Dec. 7; v. 281; p. 46.
White, Percival W., East Milton, Mass. Clothes-drying machine. No. 1,358,599; Nov. 9; v. 280; p. 333.
White, Percy, assignor to L. Morse & Sons, Athol, Mass. Corner-brace for tables, &c. No. 1,338,202; Apr. 27; v. 273; p. 677.
White Products Company. (See White, John F., assignor.)
White-Quehl Manufacturing Company. (See Quehl, Herman H., assignor.)
White, R. H. (See Meredith, W. C., and Willis, assignors.)
White, Richard P., Chicago, Ill. Fastening device. No. 1,330,966; Feb. 17; v. 271; p. 404.
White, Richard T., Chicago, Ill. Liquid-evaporator. No. 1,338,848; May 4; v. 274; p. 87.
White, Robert, Brooklyn, N. Y. Ignition device for internal-combustion engines. No. 1,356,247; Oct. 19; v. 279; p. 447.
White, Rollin H., Cleveland Heights, assignor to The Cleveland Tractor Company, Euclid, Ohio. Traction-frame construction for track-laying tractors. No. 1,338,059; Apr. 27; v. 273; p. 651.
White, Rollin H., Cleveland Heights, assignor to The Cleveland Tractor Company, Euclid, Ohio. Track-laying tractor. No. 1,338,060; Apr. 27; v. 273; p. 651.
White, Rollin H., Cleveland Heights, assignor to The Cleveland Tractor Company, Euclid, Ohio. (Reissue.) No. 14,938; Aug. 24; v. 277; p. 733.
White, Rollin H., Cleveland Heights, assignor to The Cleveland Tractor Company, Euclid, Ohio. Means for dust-proofing rotating gear-cases. No. 1,359,553; Nov. 23; v. 280; p. 610.
White, S. S., Dental Manufacturing Company, The. (See Chance, Albert, assignor.)
White, S. S., Dental Manufacturing Company, The. (See Glenn, Thomas F., assignor.)
White, S. S., Dental Manufacturing Company, The. (See Heck, George D., assignor.)
White, S. S., Dental Manufacturing Company, The. (See Johnston, W. A., Browne, and Wallace, assignors.)
White, Samuel J., Haleyville, Ala. Potato-peeler. No. 1,351,711; Aug. 31; v. 277; p. 932.
White, Samuel O., assignor to Warner Gear Company, Muncie, Ind. Clutch. No. 1,339,801; May 11; v. 274; p. 291.
White, Sanford E., Marion, Ohio. Shock-absorber for automobiles. No. 1,332,478; Mar. 2; v. 272; p. 58.
White, Thomas, Talmage, Ky. Coupling. No. 1,336,326; Apr. 6; v. 273; p. 117.
White, Thomas E., and G. McIntosh, Newark, N. J. Phonograph-motor. No. 1,349,401; Aug. 10; v. 277; p. 300.
White, Thomas J., *et al.* (See Fenwick, Joseph R., assignor.)
White, Union B., and M. H. Wetzel, Seattle, Wash. Card-distributing device. No. 1,341,695; June 1; v. 275; p. 16.
White, Walter C., Pittsburgh, Pa., assignor to International Coupler Company, Los Angeles, Calif. Telescopic pipe-joint. No. 1,334,007; Mar. 16; v. 272; p. 459.
White, Walter W., 3. W., Denver, Colo. Toy. No. 1,342,037; June 1; v. 275; p. 83.
White, William, Washington, D. C. Removing impurities from molten metal. No. 1,332,585; Mar. 2; v. 272; p. 79.
White, William, Rossville, Ga., assignor of one-half to S. M. Harvey, Chattanooga, Tenn. Incandescent lamp. No. 1,331,301; Feb. 17; v. 271; p. 465.
White, William B., Des Moines, Iowa. Combination pencil-clip and spectacle-holder. No. 1,346,777; July 13; v. 276; p. 348.
White, William E., Minneapolis, Minn. Means for spacing reinforcing-bars. (Reissue.) No. 14,825; Mar. 23; v. 272; p. 684.
White, William E., Minneapolis, Minn. Spacing-clip. No. 1,352,642; Sept. 14; v. 278; p. 215.
White, William E., Manor, Tex. Gate. No. 1,352,233; Sept. 7; v. 278; p. 100.
White, William E., Saskatoon, Saskatchewan, Canada. Loading and conveying machine for harvesting operations. No. 1,359,942; Nov. 23; v. 280; p. 687.
White, William E., Minneapolis, assignor to P. J. Kalman Company, St. Paul, Minn. Spacing bar for spirals. No. 1,361,558; Dec. 7; v. 281; p. 117.
White, William L., Old Orchard, Me. Food-dispensing apparatus. No. 1,330,104; Feb. 10; v. 271; p. 174.
White, William L., Birmingham, Ala., assignor to Underwood Typewriter Company, New York, N. Y. Typewriter tabulator device. No. 1,345,467; July 6; v. 276; p. 28.
White, William L., Birmingham, Ala., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,349,244; Aug. 10; v. 277; p. 269.
White, William M., Milwaukee, Wis. Governor. No. 1,355,294; Oct. 12; v. 279; p. 220.
White, William M., and A. Gauslin, Trona, Calif. Leaf-spring oiler. No. 1,339,872; May 11; v. 274; p. 305.
White, William P., assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y. Sealing-closure for containers. No. 1,345,722; July 6; v. 276; p. 77.
White, William W., New York, N. Y. Calendar. No. 1,343,601; June 15; v. 275; p. 506.
White, William W., New York, N. Y. Tally-card. No. 1,354,151; Sept. 28; v. 278; p. 619.
White, Wilson E. (See Gwatkin B., Randall, and White.)
Whited, Samuel J. B., Shreveport, La. Dust and lint collecting system. No. 1,336,007; Apr. 6; v. 273; p. 57.
Whitehead & Hoag Company, The. (See Hall, Charles S., assignor.)
Whitehead, Howard R. (See Gove, Henry H., assignor.)
Whitehead & Kaler Iron Works. (See Enright, William.)
Whitehead, Paul, San Diego, Calif. Means and method of catching fish. No. 1,340,677; May 18; v. 274; p. 514.
Whitehead, Percy K., Bury, and J. Rothwell, Prestwich, assignors to Bradford Dyers' Association Limited, Bradford, England. Apparatus for use in connection with the finishing or treating of woven fabrics. No. 1,353,879; Sept. 28; v. 278; p. 563.
Whitehead Sales Co. (See Killander, Axel, assignor.)
Whitehead Torpedo Works (Weymouth), The. (See Lees, E., and Ridsdale, assignors.)
Whitehead Torpedo Works (Weymouth) Limited, The. (See Lees, Edgar, assignor.)
Whitehead, Thomas, Blackpool, England. Apparatus for ring-spinning, doubling, and twisting machinery. No. 1,356,844; Oct. 26; v. 279; p. 610.
Whitehorn, Lee H., Eureka, Colo. Heater. No. 1,327,508; Jan. 6; v. 270; p. 117.
Whitehouse Brothers. (See Whitehouse, Joseph C., assignor.)
Whitehouse, John N., assignor to Elektra Toy & Novelty Co., New York, N. Y. Toy figure. No. 1,351,455; Aug. 31; v. 277; p. 882.
Whitehouse, Joseph C., assignor to Whitehouse Brothers, Cincinnati, Ohio. Setting for precious stones. No. 1,330,993; Feb. 17; v. 271; p. 409.
Whitehurst, John L., assignor, by mesne assignments, to J. T. Whitehurst, Baltimore, Md. Labeling-machine. No. 1,329,260; Jan. 27; v. 270; p. 574.
Whitehurst, John L., assignor, by mesne assignments, to J. T. Whitehurst, Baltimore, Md. Labeling-machine. No. 1,338,603; Apr. 27; v. 273; p. 752.
Whitehurst, John T. (See Whitehurst, John L., assignor.)
Whitelaw, James, St. Louis, Mo. Hat-sewing machine. No. 1,327,972; Jan. 13; v. 270; p. 265.
Whitelaw, James, St. Louis, Mo., and G. T. May, Jr., Chicago, Ill. Sewing-machine looper. No. 1,347,313; July 20; v. 276; p. 512.
Whitelaw, John F. (See Anderson, W. C., Clarke, and Whitelaw. (Reissue.)
Whiteley, George H., Jr., York, Pa., assignor to The Dentists' Supply Company. Mold for molding artificial teeth. No. 1,328,351; Jan. 20; v. 270; p. 374.
Whiteley, George H., Jr., York, Pa., assignor to The Dentists' Supply Company. Artificial tooth. No. 1,353,199; Sept. 21; v. 278; p. 385.
Whiteman, George W., Philadelphia, Pa. Insulated rail-joint. No. 1,349,352; Aug. 10; v. 277; p. 290.
Whiteman, George W., Philadelphia, Pa., assignor to The Rail Joint Company, New York, N. Y. U-rail section. No. 1,361,428; Dec. 7; v. 281; p. 90.
Whiteman, Owen L., Coxsackie, N. Y. Gate-valve. No. 1,360,164; Nov. 23; v. 280; p. 731.
Whiteman, William F. (See Latham, G. E., and Whiteman.)
Whitener, James T., assignor, by mesne assignments, of one-half to W. L. Whitener, Tishomingo, Miss. Millstone-sharpening pick. No. 1,340,589; May 18; v. 274; p. 498.

Digitized by Google

Alphabetical list of patentees—Continued.

Whitener, William L. (See Whitener, James T., assignor.)
Whiter, Edward T., Pittsburgh, Pa. Shirt attachment. No. 1,346,733; July 13; v. 276; p. 339.
Whiteside, William A. (See Schwartz, A. A., and Whiteside.)
Whitestone, Godtfred. (See Nicholson, G. F., and Whitestone.)
Whiteway, Robert C. (See Haight, R. J., and Whiteway.)
Whitfield, Charles, Kettering, England. Tool-holder. No. 1,354,636; Oct. 5; v. 279; p. 38.
Whitin Machine Works. (See Boyd, James H., assignor.)
Whiting, Bradford H., Chicago, assignor to Whiting Foundry Equipment Company, Harvey, Ill. Support for electric-current-collector shoes. No. 1,354,789; Oct. 5; v. 279; p. 69.
Whiting, Bradford H., Chicago, assignor to Whiting Foundry Equipment Company, Harvey, Ill. Support for electric-current-collector shoes. No. 1,354,790; Oct. 5; v. 279; p. 69.
Whiting & Davis Company. (See Rowan, Harry B., assignor.)
Whiting, Donald F., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,327,185; Jan. 6; v. 270; p. 57.
Whiting Foundry Equipment Company. (See Davis, Elmer A., assignor.)
Whiting Foundry Equipment Company. (See McDougall, Andrew H., assignor.)
Whiting Foundry Equipment Company. (See Sjoberg, Sidney T., assignor.)
Whiting Foundry Equipment Company. (See Townsend, John S., assignor.)
Whiting Foundry Equipment Company. (See Whiting, Bradford H., assignor.)
Whiting, Geo., Company. (See Parcells, Paul, assignor.)
Whiting, Horatio, assignor, by mesne assignments, to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,329,871; Feb. 3; v. 271; p. 99.
Whiting, John H., Punxsutawney, Pa. Dirigible headlight. No. 1,360,841; Nov. 30; v. 280; p. 932.
Whitley, Sidney A., Greensboro, N. C. Animal-trap. No. 1,363,943; Dec. 28; v. 281; p. 720.
Whitlock, Allen, Pueblo, Colo. Clothespin. No. 1,348,465; Aug. 3; v. 277; p. 65.
Whitlock, Robert G., Los Angeles, Calif. Lock for electric switches. No. 1,328,109; Jan. 13; v. 270; p. 291.
Whitman, Raymond L., Hamilton, Mass. Golf-hole renovator. No. 1,340,927; May 25; v. 274; p. 632.
Whitman, William, *et al.* (See Du Pont, Benjamin F., assignor.)
Whitmore, Fremont F., Seattle, Wash. Bolting-up device. No. 1,340,470; May 18; v. 274; p. 475.
Whitmore, John P., South Pasadena, Calif. Making painted shade material. No. 1,341,956; June 1; v. 275; p. 67.
Whitmore, William F., West Hartford, Conn. Water-hydrant. No. 1,340,352; May 18; v. 274; p. 452.
Whitmyre, Clarence A., Schenectady, N. Y., assignor to General Electric Company. Treating high-speed steel. No. 1,359,851; Nov. 23; v. 280; p. 669.
Whitnell, Charles O., Des Moines, Iowa. Metal-frame construction. No. 1,348,529; Aug. 3; v. 277; p. 77.
Whitney, Baxter D., & Son, Inc. (See Farnum, William C., assignor.)
Whitney, Baxter D., & Son. (See Loveland, Bryon S., assignor.)
Whitney, Baxter D., & Son. (See Whitney, William M., assignor.)
Whitney, Charles L. A. (See Salm, John, assignor.)
Whitney, Francilla, Dorchester, Mass. Comforter. No. 1,349,540; Aug. 10; v. 277; p. 327.
Whitney, Frederick S., New York, N. Y. Attachment for cable-recorders. No. 1,350,193; Aug. 17; v. 277; p. 526.
Whitney, Hugh M., Webster Groves, assignor to Whitney Milling Machine Co., St. Louis, Mo. Process and apparatus for reducing middlings. No. 1,357,015; Oct. 26; v. 279; p. 644.
Whitney, Irving E., West Norwalk, Conn. Accelerator-pedal for automobiles. No. 1,344,466; June 22; v. 275; p. 741.
Whitney, Loren L., Hammond, Ind., assignor to American Steel Foundries, Chicago, Ill. Forming a forged fulcrum. No. 1,335,213; Mar. 30; v. 272; p. 792.
Whitney, Loren L., Hammond, Ind., assignor to American Steel Foundries, Chicago, Ill. Brake-hanger arrangement. No. 1,335,214; Mar. 30; v. 272; p. 792.
Whitney, Loren L., Hammond, Ind., assignor to American Steel Foundries, Chicago, Ill. Forming a forged fulcrum. No. 1,335,808; Apr. 6; v. 273; p. 20.
Whitney, Loren L., Hammond, Ind., assignor to American Steel Foundries, Chicago, Ill. Safety-guard and leveling device. No. 1,355,295; Oct. 12; v. 279; p. 221.
Whitney Machine Company. (See Whitney, Robert F., assignor.)
Whitney Mfg. Co., The. (See Müller, Friederich, assignor.)
Whitney Milling Machine Co. (See Whitney, Hugh M., assignor.)
Whitney, Raymond K., Manhattan, Kans. Coaster. No. 1,336,456; Apr. 13; v. 273; p. 201.
Whitney, Robert F., assignor to Whitney Machine Company, Winchester, Mass. Leather-working machine. No. 1,344,467; June 22; v. 275; p. 742.
Whitney, William A., Rockford, Ill. Pencil-sharpener. No. 1,330,105; Feb. 10; v. 271; p. 174.
Whitney, William M. (See Farnum, William C., assignor.)
Whitney, William M. (See Folsom, Arthur E., assignor.)
Whitney, William M. (See Emery, Raymond D., assignor.)
Whitney, William M. (See McQueston, Frank S., assignor.)
Whitney, William M., assignor to Baxter D. Whitney & Son, Inc., Winchendon, Mass. Cutter-head. No. 1,363,192; Dec. 21; v. 281; p. 535.
Whitney, Willis R., Niskayuna, N. Y., assignor to General Electric Company. Coated strain-hardened metal. No. 1,331,888; Feb. 24; v. 271; p. 597.
Whiton, Lucius E., New London, Conn. Protection of ships against torpedo attack. No. 1,339,372; May 4; v. 274; p. 133.
Whitson, John W., San Francisco, Calif. Collapsible fireproof shutter. No. 1,330,224; Feb. 10; v. 271; p. 196.
Whitt, Dorothy F., Louisville, Ky. Tent-pole. No. 1,330,363; Feb. 10; v. 271; p. 222.
Whitt, Hugh, Louisville, Ky. Transmission lock. No. 1,352,489; Sept. 14; v. 278; p. 184.
Whittaker, Arnold R. (See Chadwick, L. S., and Whittaker.)
Whittaker, Charles C. (See Hall, A. J., and Whittaker.)
Whittaker, Charles C., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,327,795; Jan. 13; v. 270; p. 232.
Whittaker, Charles C., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,347,880; July 27; v. 276; p. 682.
Whittaker, Charles C., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Relay device. No. 1,354,152; Sept. 28; v. 278; p. 619.
Whittaker, Charles C., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,361,947; Dec. 14; v. 281; p. 240.
Whittaker, John A. (See Massoll, Curtis A., assignor.)
Whitted, John L., Long Island, Kans. Clothespin. No. 1,340,095; May 11; v. 274; p. 346.
Whitteman Brothers. (See Baron, Max D., assignor.)
Whittemore, James, Detroit, Mich., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Apparatus for making sheet-glass. No. 1,328,864; Jan. 27; v. 270; p. 499.
Whittemore, James, Detroit, Mich., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Sheet-glass-drawing apparatus. No. 1,362,378; Dec. 14; v. 281; p. 325.
Whitten, Frank A., assignor to General Motors Corporation, Detroit, Mich. Motor-vehicle. No. 1,336,008; Apr. 6; v. 273; p. 58.
Whitten, Frank A., assignor to General Motors Corporation, Detroit, Mich. Motor-vehicle. No. 1,346,149; July 13; v. 276; p. 224.
Whitten, Stahl A. (See Ballman, Edwin C., assignor.)
Whitten, Wilmot W., assignor of one-half to E. Guthrie, Washington, D. C. Wardrobe-trunk opener and carrier. No. 1,352,234; Sept. 7; v. 278; p. 100.
Whittingham, G. H., and W. T. Holmes, Baltimore, Md., assignors to Monitor Controller Company of Baltimore. Multivalue overload-relay. No. 1,354,708; Oct. 5; v. 279; p. 53.
Whittingham, George H., Bancroft Park, assignor to Monitor Controller Company of Baltimore, Baltimore, Md. Regulator for electric motors. No. 1,340,678; May 18; v. 274; p. 514.
Whittingham, George H., Bancroft Park, assignor to Monitor Controller Company of Baltimore, Baltimore, Md. Regulator for electric motors. No. 1,340,679; May 18; v. 274; p. 515.
Whittingham, George H., assignor to Monitor Controller Company of Baltimore, Baltimore, Md. Electric switch. No. 1,362,379; Dec. 14; v. 281; p. 225.
Whittinghill, James W., Los Angeles, Calif. Oven. No. 1,341,829; June 1; v. 275; p. 43.
Whittington, Frederick G., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Vehicle-bumper. No. 1,361,429; Dec. 7; v. 281; p. 90.
Whittlesey, Mary F. (See Elliot, Eloise F., assignor.)
Whittmann, Frank. (See Gay, George L., assignor.)
Whitton, Charles R. (See Fry and Whitton.)
Whitton, Frederick R., and W. Oster, New Albany, Ind. Worm-hoist for dump-trucks. No. 1,359,776; Nov. 23; v. 280; p. 654.
Whitton, Warren B., Columbia, S. C. Vehicle-jack. No. 1,342,140; June 1; v. 275; p. 103.
Whittredge, Lucius H., Lynn, Mass. Metallic building structure. No. 1,356,950; Oct. 26; v. 279; p. 631.
Whole Grain Wheat Company. (See Babendreer, Albert, assignor.)
Whorley, Eugene A., Roanoke, Va. Paper-bag holder. No. 1,355,633; Oct. 12; v. 279; p. 285.
Whyte, Edward S., Lowell, Mass. Combined spoon and fork. No. 1,337,174; Apr. 13; v. 273; p. 339.

Digitized by Google

Whyte, Frederick M., Tarrytown, N. Y. Metal roof for cars. No. 1,336,993; Apr. 13; v. 273; p. 304.
Whyte, Frederick M., Tarrytown, N. Y., assignor to Hutchins Car Roofing Company, Detroit, Mich. Car-roof. No. 1,354,637; Oct. 5; v. 279; p. 38.
Whyte, Samuel, Redhill, England. Case-hardening. No. 1,345,050; June 29; v. 275; p. 919.
Whyte, Samuel, Redhill, England. Manufacture of iron and steel. No. 1,345,051; June 29; v. 275; p. 919.
Whyte, William H. (See Hauck, J. J., and Whyte.)
Whyte, William S., Bedford, Ind. Pneumatic chisel. No. 1,334,686; Mar. 23; v. 272; p. 632.
Whyte, William S., Bedford, Ind. Valve for pneumatic tools. No. 1,343,951; June 22; v. 275; p. 641.
Whyte, William S., Bedford, Ind. Tool-holder. No. 1,362,657; Dec. 21; v. 281; p. 431.
Whytehead, Eric H., Leeds, England. Signaling and train-stopping apparatus. No. 1,363,070; Dec. 21; v. 281; p. 512.
Wiard, John B., Lynn, Mass. Dynamo-electric machine. No. 1,360,482; Nov. 30; v. 280; p. 861.
Wiard, John B., Lynn, Mass. Dynamo-electric machine. No. 1,360,483; Nov. 30; v. 280; p. 862.
Wiard, John B., Lynn, Mass. Method of and apparatus for casting. No. 1,360,484; Nov. 30; v. 280; p. 862.
Wiberg, Charles A., Duluth, Minn. Shock-absorber. No. 1,347,138; July 20; v. 276; p. 478.
Wiberg, Harold A., New York, N. Y. Record-cabinet. No. 1,351,596; Aug. 31; v. 277; p. 910.
Wiberg, Oscar A., Finspong, Sweden. Steam or gas turbine plant. No. 1,334,576; Mar. 23; v. 272; p. 612.
Wiberg, Oscar A., assignor to Svenska Turbinfabriks Aktiebolaget Ljungström, Finspong, Sweden. Steam or gas turbine plant. No. 1,335,775; Apr. 6; v. 273; p. 14.
Wiberg, Oscar A., and G. Karlsson, assignors to Svenska Turbinfabriks Aktiebolaget Ljungström, Finspong, Sweden. Gearing for steam or gas turbines. No. 1,337,376; Apr. 20; v. 273; p. 452.
Wiberley, Frank, Jamaica, assignor to Barthels Manufacturing Company, Glendale, N. Y. Wearing-apparel. No. 1,361,559; Dec. 7; v. 281; p. 118.
Wicke, Joseph A., Cedar Rapids, Iowa. Water-level and temperature indicator for automobile-radiators. No. 1,330,457; Feb. 10; v. 271; p. 239.
Wicker, Cyrus F., New York, N. Y. Aeroplane-propeller blade. No. 1,329,735; Feb. 3; v. 271; p. 73.
Wickersham, Daniel L., Patoka, Ill. Internal-combustion engine. No. 1,356,576; Oct. 26; v. 279; p. 557.
Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Self-laying-track vehicle. No. 1,329,316; Jan. 27; v. 270; p. 583.
Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Track-link. No. 1,336,876; Apr. 13; v. 273; p. 282.
Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Double-gear-transmission mechanism. No. 1,344,366; June 22; v. 275; p. 722.
Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Muffler for explosive-engines. No. 1,344,367; June 22; v. 275; p. 722.
Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Positive-reduction-steering transmission. No. 1,344,368; June 22; v. 275; p. 722.
Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Traction-engine. No. 1,356,678; Oct. 26; v. 279; p. 578.
Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Traction-engine. No. 1,356,679; Oct. 26; v. 279; p. 578.
Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Steering mechanism for tractors. No. 1,356,680; Oct. 26; v. 279; p. 578.
Wickham, Vincent S., Worcester, Mass. Apparatus for trimming odontological casts. No. 1,331,302; Feb. 17; v. 271; p. 465.
Wickliffe, Charles E., assignor of one-fourth to J. Jennerich and one-fourth to T. McMurray, New York, N. Y. Antifouling paint. No. 1,358,269; Nov. 9; v. 280; p. 267.
Wickliffe, Charles E., assignor of one-fourth to T. McMurray and one-fourth to J. Jennerich, New York, N. Y. Window shade bracket. No. 1,358,270; Nov. 9; v. 280; p. 267.
Wickman, Magnus H., Spokane, Wash. Child's coaster-cart. No. 1,355,199; Oct. 12; v. 279; p. 202.
Wicks, John, assignor to Automatic Electric Company, Chicago, Ill. Semi-automatic telephone system. No. 1,342,241; June 1; v. 275; p. 124.
Wickstrom, Joseph H., Beresford, S. D. Road-scraper. No. 1,333,888; Mar. 16; v. 272; p. 436.
Wickstrom, Joseph H., Beresford, S. D. Automatic vacuum hog-watering trough. No. 1,359,852; Nov. 23; v. 280; p. 669.
Wickwire, Charles C., Cortland, N. Y. Internal-combustion engine. No. 1,342,483; June 8; v. 275; p. 223.
Wickwire Spencer Steel Corporation. (See Hawthorne, Charles W., assignor.)
Wickwire Spencer Steel Corporation. (See Knapp, Albert S., assignor.)
Wickwire Spencer Steel Corporation. (See Southwick, William S., assignor.)
Wicoff, Henry A., Decatur, Ill. Safety device for spring-motors. No. 1,353,106; Sept. 14; v. 278; p. 307.
Widdop, Thomas, Ogden, Utah. Tire. No. 1,331,606; Feb. 24; v. 271; p. 544.
Widegren, Emil H. (See Widegren, Klas A. and E. H.)
Widegren, Klas A. and E. H., Hersrud, Sweden. Conveying truck. No. 1,341,249; May 25; v. 274; p. 694.
Widell, Magnus E., Maywood, Ill., assignor to American Can Company, New York, N. Y. Soldering-machine. No. 1,338,716; May 4; v. 274; p. 13.
Widenhofer, Gilbert N., Butler, Pa. Combined resilient tire and mounting. No. 1,354,363; Sept. 28; v. 278; p. 662.
Widhelm, Joseph G., Fremont, Nebr. Vapor-burner. No. 1,329,066; Jan. 27; v. 270; p. 537.
Widhelm, Margaret V., Fremont, Nebr. Hog-waterer. No. 1,350,629; Aug. 24; v. 277; p. 658.
Widing, Ivar, assignor to N. M. Porter, Dorchester, Mass. Cement ship construction. No. 1,353,880; Sept. 28; v. 278; p. 563.
Widmayer, Charles O., Syracuse, N. Y. Mouthpiece for wind musical instruments. No. 1,353,297; Sept. 21; v. 278; p. 404.
Widmer, Howard G., Brooklyn, assignor to Arkell Safety Bag Company, New York, N. Y. Machine for operating on paper. No. 1,362,976; Dec. 21; v. 281; p. 402.
Widmyer, James L., Minneapolis, Minn. Insulator. No. 1,361,948; Dec. 14; v. 281; p. 240.
Wiecek, John, Rewloc, Pa. Rail-fastener. No. 1,342,196; June 1; v. 275; p. 115.
Wiedeke, Gustav, Jr. (See Wiedeke, Otto, assignor.)
Wiedeke, Otto, assignor of one-half to G. Wiedeke, Jr., Dayton, Ohio. Tube-cutter. No. 1,357,367; Nov. 2; v. 280; p. 32.
Wiedeman, George J., Lewistown, and J. H. Hughes, Welter, Mont. Chain clamp and tightener. No. 1,349,702; Aug. 17; v. 277; p. 432.
Wiedenhoeft, Arthur E., Chicago, Ill. Lighting-fixture. No. 1,352,857; Sept. 14; v. 278; p. 259.
Wiedmann, Arthur G., Kansas City, Mo. Stein. No. 1,344,072; June 22; v. 275; p. 664.
Wiederwax, Robert W., assignor of one-half to C. Geist, Atlantic City, N. J. Preheater. No. 1,338,472; Apr. 27; v. 273; p. 728.
Wiedhoff, Alfred H., assigner of one-half to C. Soderholm, Chicago, Ill. Die-casting machine. No. 1,332,940; Mar. 9; v. 272; p. 197.
Wiegand, Henry M. (See Perry, Edward T., assignor.)
Wiegand, Wilhelm T. (See Elmer, A., and Wiegand.)
Wiegner, William. (See Kirkpatrick and Wiegner.)
Wieland, Charles, Yankton, S. D. Tire-repair tool. No. 1,344,838; June 29; v. 275; p. 879.
Wieland, Frederick G., assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y. Screw-cap. No. 1,327,453; Jan. 6; v. 270; p. 106.
Wieland, Frederick G., assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y. Making closure-caps. No. 1,327,454; Jan. 6; v. 270; p. 106.
Wieland, Frederick G., assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y. Metal-spinning machine. No. 1,359,554; Nov. 23; v. 280; p. 610.
Wieland, George, St. Louis, Mo. Saw-guard. No. 1,351,820; Sept. 7; v. 278; p. 21.
Wielgolaski, Frans H. A., Christiania, Norway. Controlling mechanism for looms. No. 1,355,200; Oct. 12; v. 279; p. 202.
Wielgosz, Ignatz F., Milwaukee, Wis. Aeroplane starting and landing platform. No. 1,345,335; June 29; v. 275; p. 974.
Wieman, Herman A., Dallas, Tex. Shelving. No. 1,344,106; June 22; v. 275; p. 670.
Wiemer, Albert, Bradley, Ill. Cabinet-trap. No. 1,349,177; Aug. 10; v. 277; p. 255.
Wiener, John A., Rothschild, Wis. Regulator. No. 1,353,298; Sept. 21; v. 278; p. 404.
Wiener, Martin L., Akron, Ohio. Wheel. No. 1,335,037; Mar. 30; v. 272; p. 760.
Wiener, Milton M. (See Benson, M. P., and Wiener.)
Wier, Frederick S. (See Kirkman, M. L., and Wier.)
Wierth, Harold C., Brooklyn, N. Y. Baking-pan. No. 1,338,344; Apr. 27; v. 273; p. 705.
Wiertz, Anthony P., Minneapolis, Minn. Monkey-wrench. No. 1,356,577; Oct. 26; v. 279; p. 557.
Wiesehan, George W., Cleveland, Ohio. Cooking-cabinet. No. 1,343,539; June 15; v. 275; p. 494.
Wiesman, William A., assignor of one-half to Keeler Brass Company, Grand Rapids, Mich. Safety-guard for machines. No. 1,329,564; Feb. 3; v. 271; p. 41.
Wiester, Stefan, Beaver Dam, assignor of one-half to Rudolph Weimer, Sheboygan, Wis. Cooling enamel. No. 1,340,353; May 18; v. 274; p. 452.
Wietecha, Josef, assignor to N. Nigbor, Detroit, Mich. Toy. No. 1,347,238; July 20; v. 276; p. 497.
Wigelius, Sven G., and N. W. Uhr, Gottenborg, Sweden. Internal-combustion engine of compound type. No. 1,336,668; Apr. 13; v. 273; p. 242.
Wiggers, Albert, Jersey City, N. J. Folding article-holder. No. 1,349,402; Aug. 10; v. 277; p. 300.
Wiggin, John D. (See Mayer, M., Wiggin, J. N. and J. D.)

Digitized by Google

Alphabetical list of patentees—Continued.

Wiggin, Joseph N. (See Mayer, M., Wiggin, J. N. and J. D.)
Wiggin, Joseph N., East Orange, assignor to H. B. Wiggin's Sons Company, Bloomfield, N. J. Fabric and making same. No. 1,352,500; Sept. 14; v. 278; p. 201.
Wiggin's, H. B., Son's Company. (See Meyer, M., Wiggin, J. N. and J. D., assignors.)
Wiggins, H. B., Sons Company. (See Wiggin, Joseph N.)
Wiggins, Isam I., McIntosh, Ga. Differential mechanism for front and rear driven vehicles. No. 1,350,194; Aug. 17; v. 277; p. 527.
Wiggins, John T. (See Louden, Jonathan D., assignor.)
Wigginton, George P., assignor to Kalamazoo Loose Leaf Binder Co., Kalamazoo, Mich. Binder device. No. 1,338,658; Apr. 27; v. 273; p. 762.
Wigginton, Peter W. (See Dick and Wigginton.)
Wiggs, Harry E., Mannford, Okla. Tool for holding hoes while sharpening the same. No. 1,349,178; Aug. 10; v. 277; p. 255.
Wight, Sedgwick N., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Signaling means. No. 1,330,106; Feb. 10; v. 271; p. 174.
Wightman, Charles K., Alton, Ill., assignor to Beall Brothers. Sectional bolt. No. 1,337,807; Apr. 20; v. 275; p. 533.
Wightman, Merle J., assignor, by mesne assignments, to Railway's Accessories Company, Seattle, Wash. Rail-joint. No. 1,343,070; June 8; v. 275; p. 339.
Wigle, Wilson B., Montebello, Calif. Clamp. No. 1,342,141; June 1; v. 275; p. 104.
Wigle, Wilson B., Montebello, Calif. Wheel-gudgeon. No. 1,349,030; Aug. 10; v. 277; p. 226.
Wigle, Wilson B., Fullerton, Calif. Underreamer. No. 1,356,951; Oct. 26; v. 279; p. 631.
Wigle, Wilson B., Fullerton, Calif. Pump. No. 1,362,456; Dec. 14; v. 281; p. 340.
Wigman, William J., Manitowoc, Wis. Automobile-signal. No. 1,327,128; Jan. 6; v. 270; p. 47.
Wigmore, William J., Oakland, and Oscar H. Fiddes, San Francisco, Calif. Electromagnetic elevator-door lock. No. 1,344,430; June 22; v. 275; p. 734.
Wig, A., W. J. Braden, Sioux City, and L. R. Prather, Des Moines, Iowa, assignors to Peerless Shocker Manufacturing Company, Sioux City, Iowa. Grain-shocker. No. 1,355,108; Oct. 5; v. 279; p. 130.
Wingaard, Aage G. P., Copenhagen, Denmark. Safety device for coin-controlled clockwork mechanism. No. 1,335,145; Mar. 30; v. 272; p. 780.
Wingaard, Aage G. P., Copenhagen, Denmark. Savings-clock. No. 1,338,543; Apr. 27; v. 273; p. 741.
Wikoff, Thomas S. (See Berardinelli and Wikoff.)
Wikstrom, Edward, Lowell, Mass. Implement-holding device. No. 1,342,364; June 1; v. 275; p. 146.
Wikstrom, Malcolm U., Charleroi, assignor to Pittsburgh Steel Products Company, Pittsburgh, Pa. Annealing-furnace. No. 1,343,019; June 8; v. 275; p. 329.
Wilbanks, Andrew J., Hansford, Tex. Gate-operating device. No. 1,331,336; Feb. 24; v. 271; p. 587.
Wilber, Arthur E. (See Gray, Paul R., assignor.)
Wilber, Hugh L., Kansas City, Mo., assignor to The Wilberite Roofing Company, Cleveland, Ohio. Roofing material and preparing same. No. 1,348,259; Aug. 3; v. 277; p. 26.
Wilber, Le Roy G., Sequin, Wash. Valve. No. 1,346,289; July 13; v. 276; p. 252.
Wilber, Oscar H., Jr., Mobile, Ala. Rotary engine. No. 1,349,353; Aug. 10; v. 277; p. 290.
Wilber, William H., Buffalo, N. Y. Water-power apparatus. No. 1,338,890; May 4; v. 274; p. 44.
Wilberite Roofing Company, The. (See Glynn, Guilford C., assignor.)
Wilberite Roofing Company, The. (See Wilber, Hugh L., assignor.)
Wilbourn, Asa J. (See Bowers, Oscar L., assignor.)
Wilbur, Burt, assignor of one-half to G. H. Jones, Syracuse, N. Y. Sanitary milk-carrier. No. 1,328,937; Jan. 27; v. 270; p. 514.
Wilbur, Francis P., Milwaukee, Wis. Window-balcony. No. 1,332,452; Mar. 2; v. 272; p. 53.
Wilbur, Merritt D., Rochester, F. P. Cannon, Syracuse, and T. J. Murphy, Rochester, N. Y. Carbonizing articles and apparatus for same. No. 1,350,483; Aug. 24; v. 277; p. 630.
Wilbur, Ray S., Lyndhurst, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,337,301; Apr. 20; v. 273; p. 437.
Wilbur, Ray S., Lyndhurst, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,356,181; Oct. 18; v. 279; p. 484.
Wilbur, Ray S., Lyndhurst, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone transmission system. No. 1,361,510; Dec. 7; v. 281; p. 107.
Wilbur, Ray S., Lyndhurst, N. J., and W. H. Harrison, Brooklyn, assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,337,676; Apr. 20; v. 273; p. 508.
Wilbur, Ray S., Lyndhurst, and R. F. Lovelee, East Orange, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone transmission system. No. 1,364,013; Dec. 28; v. 281; p. 734.
Wilbur, Stephen B., Akron, Ohio. Tire-spreader. No. 1,349,990; Aug. 17; v. 277; p. 487.
Wilch, Peter J., Jenera, Ohio. Feeder. No. 1,357,755; Nov. 2; v. 280; p. 105.
Wilck, Ulrich, Essen-Kellinghausen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Mechanical time-fuse. No. 1,362,519; Dec. 14; v. 281; p. 852.
Wilcke, Paul F. C. (See Blume, R. A., and Wilcke.)
Wilcken, Adolph C. (See Piper, Clarence W., assignor.)
Wilcox, Albinus. (See Wilcox, Charles F., assignor.)
Wilcox, Charles F., New York, assignor of forty-nine one-hundredths to A. Wilcox, Kings county, N. Y. Flying-machine. No. 1,336,669; Apr. 13; v. 273; p. 242.
Wilcox, Charles M., assignor of one-half to C. H. Harris, New Paris, Ohio. Steam production. No. 1,350,350; Aug. 24; v. 277; p. 603.
Wilcox, Ernest C. (See Turney, Eugene T., assignor.)
Wilcox, Frank. (See Hollarn, E. F., Hubble, Everton, and Wilcox.)
Wilcox, Frank S., Union, S. C. Apparatus for treating knitted webs. No. 1,340,809; May 18; v. 274; p. 538.
Wilcox, Frederick A., and L. McGregory, Spokane, Wash. Coffee-roasting machine. No. 1,340,692; May 18; v. 275; p. 517.
Wilcox, Frederick A., and E. L. McGrory, Spokane, Wash. Coffee-grinding machine. No. 1,347,608; July 27; v. 276; p. 628.
Wilcox, Henry, assignor to F. Brabson, Newark, N. J. Clock-operated control device. No. 1,333,649; Mar. 16; v. 272; p. 392.
Wilcox, John M., Cleveland, Ohio. Punching and shearing machine. No. 1,356,248; Oct. 19; v. 279; p. 447.
Wilcox, Joseph, Jr., Fitchburg, Mass. Belt-drive for grinding-machines. No. 1,334,339; Mar. 23; v. 272; p. 567.
Wilcox, Joseph S., Jr. (See Norton, C. H., Turner, and Wilcox, Jr.)
Wilcox, Josiah T., Westfield, N. J., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md. Sifter-top for containers. No. 1,345,975; July 6; v. 276; p. 128.
Wilcox, Lewis T., Peekskill, N. Y. Liquid-fuel stove. No. 1,355,933; Oct. 19; v. 279; p. 384.
Wilcox, Lewis T., Peekskill, N. Y. Manufacture of wick-holders. No. 1,362,457; Dec. 14; v. 281; p. 340.
Wilcox, Lewis T., Peekskill, N. Y., assignor to A. J. Lindermann & Hoverson Company, Milwaukee, Wis. Baking-oven. No. 1,356,102; Oct. 19; v. 279; p. 418.
Wilcox, Lyle E., McLean, Ill. Sign-exhibiting means. No. 1,354,638; Oct. 5; v. 279; p. 89.
Wilcox, Orla O., Denver, Colo. Vehicle-anchoring means for railway-cars. No. 1,333,144; Mar. 9; v. 272; p. 236.
Wilcox, Ralph L. (See Smith, W. R., Wilcox, and Frans.)
Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Heading-machine. No. 1,360,842; Nov. 30; v. 280; p. 932.
Wilcox, Roscoe, Lombard, Ill. Dirigible lamp. No. 1,329,647; Feb. 3; v. 271; p. 56.
Wilcox, William D., Chicago, Ill. Apparatus for manufacturing gas. No. 1,332,369; Mar. 2; v. 272; p. 38.
Wilcox, William H. (See Ingham, C. H., and Wilcox.)
Wilczynski, Josef, assignor of one-half to M. Dominski, Detroit, Mich. Railway-switch. No. 1,336,114; Apr. 6; v. 273; p. 78.
Wild, Alfred. (See Anderson and Wild.)
Wild, Alfred. (See Meinecke, A. K., and Wild.)
Wild, Arnold, Danielson, Conn., assignor to Draper Corporation, Hopedale, Mass. Tension device for shuttles. No. 1,350,630; Aug. 24; v. 277; p. 659.
Wild, Edward J., Camden Town, assignor to C. N. Garner, Totteridge, Hertford, England. Collapsible box. No. 1,356,681; Oct. 26; v. 279; p. 578.
Wild, Henry. (See Hossle, F. C., and Wild.)
Wild, Henry, Detroit, Mich. Manufacturing valves. No. 1,361,214; Dec. 7; v. 281; p. 46.
Wild, James E., and W. W. Caldwell, Fall River, Mass., assignors to The American Thread Company, Jersey City, N. J. Means for electrically controlling skein-mercerizing machines. No. 1,348,804; June 15; v. 275; p. 547.
Wild, Morton, New York, N. Y. Toy. No. 1,340,512; May 18; v. 274; p. 483.
Wild, Mount K. (See Francisco, Marshall E., assignor.)
Wildberg Box Company. (See Wildberg, H., and Hoeltge, assignors.)
Wildberg, Henry, and F. W. Hoeltge, assignors to Wildberg Box Company, Cincinnati, Ohio. Bottle-container. No. 1,331,607; Feb. 24; v. 271; p. 544.
Wilder, Clinton E., Irvine, Pa. Metallic railway-tie. No. 1,329,648; Feb. 3; v. 271; p. 57.
Wilder, Henry S., Newton, Mass. Keyboard for practicing and teaching the playing of the piano. No. 1,347,068; July 20; v. 276; p. 465.
Wilder, Laurence R. (See Hilty, Frederick, assignor.)
Wilder, Laurence R. (See Miller, John A., assignor.)
Wilder-Strong Implement Company. (See Stoner, Frank H., assignor.)
Wildhaber, Christian, New York, N. Y. Sifting and separating device. No. 1,331,303; Feb. 17; v. 271; p. 465.

Wildi Carl, Wohlen, assignor to the Firm Argovia A. G., Mellingen, Switzerland. Bobbin for braiding-machines. No. 1,354,084; Sept. 28; v. 278; p. 606.
Wilding, John, Fort Wayne, Ind. Lock for steering-wheels. No. 1,354,153; Sept. 28; v. 278; p. 620.
Wildman, Henry W., Prophetstown, Ill. Traction and tread wheel. No. 1,334,064; Mar. 16; v. 272; p. 469.
Wildman Mfg. Co. (See Pigeon, Albert M., assignor.)
Wile, Raymond S., New York, N. Y. Electrical furnace. No. 1,345,976; July 6; v. 276; p. 128.
Wile, Raymond S., New York, N. Y. Cement for filling voids in brass castings. No. 1,359,137; Nov. 16; v. 280; p. 483.
Wile, Solomon, Rochester, N. Y. Slicing-machine. No. 1,350,048; Aug. 17; v. 277; p. 498.
Wile, Solomon, Rochester, N. Y. Slicing-machine. No. 1,350,049; Aug. 17; v. 277; p. 498.
Wileman, Hartford, Clay Center, Nebr. Spring-wheel. No. 1,344,012; June 22; v. 275; p. 653.
Wiley, Fred H. (See Burt, H. A., and Wiley.)
Wiley, Samuel, U. S. Army. Signal device. No. 1,329,736; Feb. 3; v. 271; p. 73.
Wilfley, Arthur R., Denver, Colo. Centrifugal pump. No. 1,330,416; Feb. 10; v. 271; p. 232.
Wilfley, Arthur R., Denver, Colo. Centrifugal pump. No. 1,346,924; July 20; v. 276; p. 436.
Wilfley, Arthur R., Denver, Colo. Standpipe connection for centrifugal pumps. No. 1,346,925; July 20; v. 276; p. 436.
Wilfley, Arthur R., Denver, Colo. Centrifugal pump. No. 1,346,926; July 20; v. 276; p. 436.
Wilgus, Harold J., Canton, Ohio. Valve-stem tool. No. 1,345,651; July 6; v. 276; p. 63.
Wilhelm, John H., assignor to Blair Tool & Machine Works, Inc., New York, N. Y. Thread-testing device. No. 1,359,943; Nov. 23; v. 280; p. 687.
Wilhelm, Joseph, and C. A. Kays, McKees Rocks, Pa. Film-reel. No. 1,353,004; Sept. 14; v. 278; p. 287.
Wilhelm, Russell H., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Handle for percussive tools. No. 1,358,486; Nov. 9; v. 280; p. 311.
Wilhelmi, Dirk F., Doorwerth, Netherlands. Vulcanizing-mold for boots and shoes. No. 1,349,796; Aug. 17; v. 277; p. 450.
Wilhelmy, Walter, Sr., Pueblo, Colo. Making non-intoxicating beverages. No. 1,338,803; May 4; v. 274; p. 29.
Wilkenfeld, Myer, Brooklyn, N. Y. Fender. No. 1,333,522; Mar. 9; v. 272; p. 307.
Wilkens, Herman, Grafton, Va. Pleasure-machine. No. 1,334,727; Mar. 23; v. 272; p. 640.
Wilkens, Jacob K., Muscatine, Iowa. Rectal tube. No. 1,350,981; Aug. 24; v. 277; p. 725.
Wilkens, John F., Hillsboro, Oreg. Reel attachment. No. 1,331,304; Feb. 17; v. 271; p. 466.
Wilkerson, Claud J. (See Burton, William H., and Wilkerson.)
Wilkie, William H., Detroit, Mich. Tray for lunch-boxes. No. 1,353,689; Sept. 21; v. 278; p. 483.
Wilkin, George W., Grangeville, Idaho. Differential. No. 1,344,107; June 22; v. 275; p. 670.
Wilkin, George W., and J. P. Kee, Grangeville, Idaho. Transmission-clutch for motor-vehicles. No. 1,330,506; Feb. 10; v. 271; p. 248.
Wilkin, John T., assignor to The Connersville Blower Company, Connersville, Ind. Proportional governor. No. 1,341,696; June 1; v. 275; p. 16.
Wilkins, Frederick F., assignor to B. E. Johnson, London, England. Lock or bolt for doors and the like. No. 1,347,799; July 27; v. 276; p. 666.
Wilkins, George H., Greenfield, Mass. Combined shipping-case and display-rack. No. 1,352,490; Sept. 14; v. 278; p. 185.
Wilkins, John W., Battle Creek, Mich. Automobile-tool. No. 1,339,612; May 11; v. 274; p. 255.
Wilkins, Myron W., Gloversville, N. Y. Riveting-machine. No. 1,357,368; Nov. 2; v. 280; p. 32.
Wilkins, Orley, and W. E. Moody, Columbus, Ohio, assignors to J. E. Jones, Switchback, W. Va. Loading-machine. No. 1,361,653; Dec. 7; v. 281; p. 135.
Wilkinson, Albert R. J., Twickenham, England. Work-holding device. No. 1,337,677; Apr. 20; v. 273; p. 508.
Wilkinson, Arthur W., assignor to Sterling Products Company, Inc., Easton, Pa. Container. No. 1,341,403; May 25; v. 274; p. 724.
Wilkinson Brothers & Company. (See Fuhrmann, Warren, assignor.)
Wilkinson, Cora M., Hartford, Conn. Closure-fastener. No. 1,332,479; Mar. 2; v. 272; p. 58.
Wilkinson, Edward F., Jr., Gramercy, La. Valve-lifter. No. 1,331,305; Feb. 17; v. 271; p. 466.
Wilkinson, George L., *et al.* (See Hien, Phillip, assignor.)
Wilkinson, George S., assignor to The Aircraft Manufacturing Company Limited, London, England. Means for starting the engines of aeroplanes. No. 1,331,791; Feb. 24; v. 271; p. 578.
Wilkinson, Glenn A. (See Kain, H., Miles, and Wilkinson.)
Wilkinson, Harris C., Los Angeles, Calif. Branding-machine. No. 1,341,449; May 25; v. 274; p. 733.
Wilkinson, Herbert A., Des Moines, Iowa. Automatic tire-pump. No. 1,359,214; Nov. 16; v. 280; p. 497.
Wilkinson, Herbert T. (See Wilkinson, Thomas F., assignor.)
Wilkinson, James. (See Dickinson, E. D., and Wilkinson.)
Wilkinson, James, Schenectady, N. Y., assignor to General Electric Company. Casing for electrical apparatus. No. 1,347,769; July 27; v. 276; p. 661.
Wilkinson, James, Schenectady, N. Y., assignor to General Electric Company. Gearing. No. 1,359,853; Nov. 23; v. 280; p. 669.
Wilkinson, John B., Milwaukee, assignor of one-half to J. C. White, Madison, Wis. Differential gage. No. 1,340,198; May 18; v. 274; p. 423.
Wilkinson, John F., Winchendon, Mass. Flying-machine. No. 1,351,821; Sept. 7; v. 278; p. 21.
Wilkinson, Lee, Sourlake, Tex. Pipe-fishing tool. No. 1,358,807; Nov. 16; v. 280; p. 420.
Wilkinson, Nathan, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Squirrel-cage winding construction. No. 1,351,270; Aug. 31; v. 277; p. 844.
Wilkinson, Nathan, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Method of and apparatus for electric welding. No. 1,351,271; Aug. 31; v. 277; p. 845.
Wilkinson, Thomas F., assignor of one-half to H. T. Wilkinson, Manchester, England. Separating or grading apparatus. No. 1,347,314; July 20; v. 276; p. 513.
Wilkinson, Virgil R. (See Rogers, William T., assignor.)
Wilkman, George J., assignor to Ideal Sheet Metal Works, Chicago, Ill. Radiator. No. 1,356,897; Oct. 26; v. 279; p. 620.
Will & Baumer Company, The. (See Engman, Evald J., assignor.)
Will & Baumer Company, The. (See Rosenberger, William, assignor.)
Will, John C., *et al.* (See Curtis, Frederic A., assignor.)
Willamette Iron & Steel Works. (See Wilson, John S., assignor.)
Willans, George H., Gloucester, England. Combined feed-water heater and steam-superheater for locomotive and other smoke or fire tube boilers. No. 1,353,200; Sept. 21; v. 278; p. 385.
Willard, Arthur M., Chicago, Ill. Seal-press. No. 1,346,150; July 13; v. 276; p. 224.
Willard, Rufus B., Los Angeles, Calif. Sea-wall. No. 1,332,655; Mar. 2; v. 272; p. 92.
Willard, Rufus B., Hollywood, Calif. Sea-wall or bulkhead. No. 1,359,475; Nov. 16; v. 280; p. 550.
Willard Storage Battery Company. (See Disinger, Ernest, assignor.)
Willard Storage Battery Company. (See Willard, Theodore A., assignor.)
Willard, Theodore A., Cleveland, Ohio. Storage-battery separator and producing same. No. 1,342,611; June 8; v. 275; p. 247.
Willard, Theodore A., Cleveland, Ohio. Apparatus for forming storage-battery jars and the like. No. 1,352,160; Sept. 7; v. 278; p. 86.
Willard, Theodore A., Cleveland, Ohio. Forming hard-rubber storage-battery jars. No. 1,352,161; Sept. 7; v. 278; p. 86.
Willard, Theodore A., East Cleveland, assignor to Willard Storage Battery Company, Cleveland, Ohio. Storage-battery jar. No. 1,327,649; Jan. 13; v. 270; p. 205.
Willard, Theodore A., East Cleveland, assignor to Willard Storage Battery Company, Cleveland, Ohio. Storage battery adapted particularly for aeroplanes. No. 1,327,650; Jan. 13; v. 270; p. 205.
Willard, Thomas, San Bruno, Calif. Electrode-holder. No. 1,348,530; Aug. 3; v. 277; p. 77.
Willcox, Frank A., Dartford, England. Safety device for use in connection with refrigerating-machines. No. 1,339,244; May 4; v. 274; p. 110.
Willcox & Gibbs Sewing Machine Co. (See Merritt, Arthur A., assignor.)
Willcox & Gibbs Sewing Machine Co. (See Summers, Gilbert L., assignor.)
Willcox, Lealand C., Des Moines, Iowa, assignor to National Pie Crust Company, Milwaukee, Wis. Making pie-crusts and similar pastry. No. 1,330,018; Feb. 3; v. 271; p. 126.
Willcox, Walter D., Upper Darby, Pa. Ice-making apparatus. No. 1,327,414; Jan. 6; v. 270; p. 99.
Wille, Henry V., assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Boiler. No. 1,363,944; Dec. 28; v. 281; p. 721.
Willeford, Charles, Mount Pleasant, Iowa. Hen's nest. No. 1,336,802; Apr. 13; v. 273; p. 268.
Willems, Henry J., Kenosha, Wis. Spring fabric. No. 1,339,802; May 11; v. 274; p. 291.
Willenbruch, Walther, assignor to Western Electric Company, Incorporated, New York, N. Y. Electromagnetic switching device. No. 1,330,507; Feb. 10; v. 271; p. 248.
Willet, John G., Buffalo, N. Y. Carbureting apparatus. No. 1,333,050; Mar. 9; v. 272; p. 218.
Willett, Alfred H., West New York, N. J., assignor to American Arch Company, New York, N. Y. Refractory arch construction. No. 1,342,931; June 8; v. 275; p. 312.

Digitized by Google

Alphabetical list of patentees—Continued.

Willett, Alfred H., West New York, N. J., assignor to American Arch Company, New York, N. Y. Spacer-block for refractory arches. No. 1,343,243; June 15; v. 275; p. 437.
Willett, Benedict E., near Dayton, Ohio. Display-rack. No. 1,345,525; July 6; v. 276; p. 39.
Willett, Frank N. L., Aurora, Ill. Sheep-shears. No. 1,348,914; Aug. 10; v. 277; p. 203.
Willett, Leonard, Paducah, Ky. Runner attachment for harrows. No. 1,353,007; Sept. 14; v. 278; p. 288.
Willey, Isaac F., Philadelphia, Pa. Retaining device for laundried collars. No. 1,349,643; Aug. 17; v. 277; p. 420.
Willey, Isaac F., Philadelphia, Pa. Ironing collars. No. 1,350,583; Aug. 24; v. 277; p. 650.
Willey, Josiah F., Wichita, Kans. Jack. No. 1,339,613; May 11; v. 274; p. 256.
Williford, Arthur R., assignor to The Electric Ozone Company, Minneapolis, Minn. Washing and drying clothes. No. 1,362,658; Dec. 21; v. 281; p. 431.
William, Morton W. (See Piggee, Andrew W., assignor.)
Williams, Albert R., assignor to The Ironton Engine Company, Ironton, Ohio. Traction-locomotive. No. 1,334,577; Mar. 23; v. 272; p. 612.
Williams, Anthony F., assignor to North East Electric Company, Rochester, N. Y. Circuit-controller. No. 1,350,759; Aug. 24; v. 277; p. 683.
Williams, Anthony F., assignor to North East Electric Company, Rochester, N. Y. Work-support for dipping machinery. No. 1,354,930; Oct. 5; v. 279; p. 96.
Williams, Anthony F., assignor to North East Electric Company, Rochester, N. Y. Undercutting-machine. No. 1,361,215; Dec. 7; v. 281; p. 46.
Williams, Benjamin S., Nashville, Tenn. Internal-combustion engine. No. 1,355,441; Oct. 12; v. 279; p. 248.
Williams, Calvin C. and J., Philadelphia, Pa. Fan-motor. No. 1,330,827; Feb. 17; v. 271; p. 376.
Williams, Charles, and J. A. Young, Auckland, New Zealand. Milking-machine teat-cup claw. No. 1,358,667; Nov. 9; v. 280; p. 347.
Williams, Charles E., Pittsburgh, Pa. Tire. No. 1,343,860; June 15; v. 275; p. 559.
Williams, Charles E., Pittsburgh, Pa. Tire. No. 1,343,861; June 15; v. 275; p. 559.
Williams, Charles H., assignor to Chicago Railway Equipment Company, Chicago, Ill. Suspension-rigging for clasp-brakes. No. 1,334,123; Mar. 16; v. 272; p. 481.
Williams, Charles H., assignor to Chicago Railway Equipment Company, Chicago, Ill. Safety-guard for brake-beams. No. 1,334,124; Mar. 16; v. 272; p. 481.
Williams, Charles H., assignor to Chicago Railway Equipment Company, Chicago, Ill. Adjustable third or fourth point support for brake-beams. No. 1,352,570; Sept. 14; v. 278; p. 201.
Williams, Charles H., assignor to Chicago Railway Equipment Company, Chicago, Ill. Fourth-point support for brake-beams. No. 1,357,369; Nov. 2; v. 280; p. 32.
Williams, Charles H., assignor to Chicago Railway Equipment Company, Chicago, Ill. Third or fourth point support for brake-beams. No. 1,363,829; Dec. 28; v. 281; p. 699.
Williams, Charles I., assignor to Northern Tool Company, Utica, N. Y. Gage-cock. No. 1,357,667; Nov. 2; v. 280; p. 88.
Williams, Charles J., Jr., assignor to L. Moore Dry Kiln Co., Jacksonville, Fla. Base-plate. No. 1,333,523; Mar. 9; v. 272; p. 307.
Williams, Charles R., Omaha, Nebr. Hat-ventilator. No. 1,350,535; Aug. 24; v. 277; p. 640.
Williams, Charlie, assignor of one-third to N. Nelson, Granite City, Ill. Finishing iron and steel plates. No. 1,342,484; June 8; v. 275; p. 223.
Williams, Charlie, assignor of one-third to N. Nelson, Granite City, Ill. Treating pickled plates. No. 1,360,848; Nov. 30; v. 280; p. 932.
Williams, Cherlotte, Boston, Mass. Culinary implements. No. 1,354,709; Oct. 5; v. 279; p. 53.
Williams, Chester L., Chapin, Ill. Gate-hinge. No. 1,349,797; Aug. 17; v. 277; p. 450.
Williams, Clarence P., Syracuse, Ohio. Pump-piston. No. 1,355,802; Oct. 12; v. 279; p. 318.
Williams, Claud S. (See Jones, William E., assignor.)
Williams, David C., Arlington, assignor to R. A. Ballou, Brookline, Mass. Cabinet. No. 1,358,271; Nov. 9; v. 280; p. 267.
Williams, David S., assignor to C. W. Shoe Manufacturing Company, Portland, Oreg. Shoe-calk. No. 1,355,201; Oct. 12; v. 279; p. 202.
Williams, Davis S., Los Angeles, Calif. Jointed figure. No. 1,345,052; June 29; v. 275; p. 919.
Williams, Earl B., Los Angeles, Calif. Audible theft-alarm signal for automobiles. No. 1,339,873; May 11; v. 274; p. 305.
Williams, Earl B., and B. E. Rieg, Los Angeles, Calif. Auxiliary windshield. No. 1,345,053; June 29; v. 275; p. 919.
Williams, Eddie C., assignor of one-half to J. T. Reynolds, Banks, Ala. Aerial bomb. No. 1,359,009; Nov. 16; v. 280; p. 459.
Williams, Edgar L., Lynn, Mass. Soldering-flux. No. 1,359,010; Nov. 16; v. 280; p. 460.
Williams, Edward, Birmingham, England. Controlling mechanism. No. 1,353,368; Sept. 21; v. 278; p. 418.
Williams, Edward, Birmingham, England. Control mechanism. No. 1,353,369; Sept. 21; v. 278; p. 418.
Williams, Edward H., New Orleans, La. Savings safety-box. No. 1,348,768; Aug. 3; v. 277; p. 123.
Williams, Edward R., Sharpsburg, Pa. Disinfecting or deodorizing device. No. 1,349,703; Aug. 17; v. 277; p. 432.
Williams, Edward T., New York, N. Y. Shaft-sealing device. No. 1,327,002; Jan. 6; v. 270; p. 23.
Williams, Edwin C. (See Gerke, J. and N., and Williams.)
Williams, Enoch L., Marshalltown, Iowa. Milling-machine. No. 1,339,490; May 11; v. 274; p. 232.
Williams, Ernest A., Cincinnati, Ohio, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Cutter-guard. No. 1,334,340; Mar. 23; v. 272; p. 567.
Williams, Ernest B., Washington, D. C. Liquid-feeding brush. No. 1,329,944; Feb. 3; v. 271; p. 112.
Williams, Evan O., Parkstone, assignor to Williams Foreign Patents Limited, London, England. Mode of constructing reinforced concrete ships, barges, floating structures, and the like. No. 1,353,107; Sept. 14; v. 278; p. 307.
Williams, Everett A., and A. H. Ward, Los Angeles, Calif. Ore-concentrator. No. 1,356,249; Oct. 19; v. 279; p. 447.
Williams, Ferrell G. (See Ritchey, J. C., and Williams.)
Williams Foreign Patents. (See Williams, Evan O., assignor.
Williams Foundry & Machine Company, The. (See Arthur, James W., assignor.)
Williams, Frank A., Detroit, Mich. Gun-sight. No. 1,340,996; May 25; v. 274; p. 646.
Williams, Frank C., Philadelphia, Pa., assignor to The Safety Block Signal Company. Automatic train controlling and stopping mechanism. No. 1,345,816; July 6; v. 276; p. 96.
Williams, Frank E., Alhambra, Calif. Friction band-brake. No. 1,353,370; Sept. 21; v. 278; p. 418.
Williams, Frank H., Buffalo, N. Y. Grab-bucket. No. 1,329,868; Feb. 3; v. 271; p. 98.
Williams, Frank L., Detroit, Mich. Pedal extension. No. 1,346,361; July 13; v. 276; p. 266.
Williams, Frank L., Cuthbert, Ga. Dump-body for vehicles. No. 1,363,945; Dec. 28; v. 2811; p. 721.
Williams, Frank W. (See Parnall, Archie E., assignor.)
Williams, Frank W., Chicago, Ill. Talking-machine needle. No. 1,344,839; June 29; v. 275; p. 880.
Williams, Franklin M., assignor to Aeroplane Railway Patents Corporation, New York, N. Y. Aeroplane pleasure-railway. No. 1,328,238; Jan. 13; v. 270; p. 316.
Williams, George. (See Baker, G. W., and Williams.)
Williams, George A., Watertown, Conn. Metal-can nozzle and closure therefor. No. 1,339,245; May 4; v. 274; p. 110.
Williams, George A., C. L. Missel, Waterbury, and J. G. Lepper, Bridgeport, assignors to The Williams Sealing Corporation, Waterbury, Conn. Bottle-capping machine. No. 1,332,279; Mar. 2; v. 272; p. 20.
Williams, George B., Gary, Ind. Direction-signal. No. 1,330,668; Feb. 10; v. 271; p. 278.
Williams, George H., Kearney, Nebr. Nest. No. 1,343,071; June 8; v. 275; p. 339.
Williams, George H., Los Angeles, Calif., assignor to said G. H. Williams, trustee. Code-record. No. 1,332,861; Mar. 2; v. 272; p. 131.
Williams, George M., Houston, Tex. Elevator. No. 1,359,641; Nov. 23; v. 280; p. 627.
Williams, George M., Elizabeth, N. J., assignor to P. Lorillard Company, New York, N. Y. Magazine-charging appliance for eyeleting and like machines. No. 1,358,044; Nov. 9; v. 280; p. 222.
Williams, George T., Oakland, Calif. Combustion-engine of the rotary type. No. 1,339,730; May 11; v. 274; p. 278.
Williams, George W., Morris, Ill. Straw-spreader. No. 1,338,544; Apr. 27; v. 273; p. 741.
Williams, George W., Morris, Ill. Spreader. No. 1,345,427; July 6; v. 276; p. 20.
Williams, George W., Brooklyn, N. Y. Mouthpiece. No. 1,360,844; Nov. 30; v. 280; p. 932.
Williams, Glen L., New York, N. Y., assignor, by mesne assignments, to H. W. Campbell, Detroit, Mich. Electrically depositing aluminium. No. 1,351,144; Aug. 31; v. 277; p. 819.
Williams, Griffith E., Cambria, Wis. Motor-sleigh. No. 1,363,071; Dec. 21; v. 281; p. 512.
Williams, H. B. (See Dyer, Robert J., assignor.)
Williams, Harold S., Santa Cruz, Calif. Cooling device. No. 1,356,325; Oct. 19; v. 279; p. 462.
Williams, Harrison R., Chicago, Ill., assignor to Dearborn Truck Company. Device for automobile conversion. No. 1,342,142; June 1; v. 275; p. 104.
Williams, Harrison R., Chicago, Ill., assignor to Dearborn Truck Company. Adjustable shaft-hanger for motor-vehicles. No. 1,342,143; June 1; v. 275; p. 104.
Williams, Harry M. (See Delaney, James T., assignor.)

Digitized by Google

Williams, Harry S., assignor of one-half to O. Keller, San Antonio, Tex. Air-cushion tire. No. 1,334,204; Mar. 16; v. 272; p. 495.
Williams, Harry S., assignor of one-half to O. Keller, San Antonio, Tex. Cushion-tire. No. 1,334,205; Mar. 16; v. 272; p. 495.
Williams, Harry W., assignor to The Superior Tool Company, Dayton, Ohio. Lard-dispensing machine. No. 1,340,590; May 18; v. 274; p. 498.
Williams, Harry W., assignor to The Superior Tool Company, Dayton, Ohio. Cooling apparatus for lard-dispensing machines. No. 1,341,605; May 25; v. 274; p. 763.
Williams, Hartwell L., Beaumont, Tex. Mud-cleaning mechanism for tractor-wheels. No. 1,341,093; May 25; v. 274; p. 664.
Williams, Harvey D., Wallingford, Conn., assignor to Gear Improvement Company, Inc., New York, N. Y. Means for perfecting toothed gears. No. 1,335,472; Mar. 30; v. 272; p. 840.
Williams, Henry A., Kinston, N. C. Heel attachment for shoes. No. 1,343,602; June 15; v. 275; p. 506.
Williams, Henry C., York, Pa. Coin-controlled apparatus for renting umbrellas. No. 1,347,831; July 27; v. 276; p. 672.
Williams, Henry J. (See Johnston, W. H., and Williams.)
Williams, Henry J., Mobile, Ala. Shipping-case. No. 1,329,032; Jan. 27; v. 270; p. 581.
Williams, Herbert E. (See Clayton, R. H., Huebner, and Williams.)
Williams, Herman A., Palms, assignor to L. C. Myers, Los Angeles, Calif. Automobile-curtain window. No. 1,334,824; Mar. 23; v. 272; p. 659.
Williams, Homer D., Pittsburgh, and W. Ahlen, Duquesne, Pa. Metal-heating furnace. No. 1,336,266; Apr. 6; v. 273; p. 106.
Williams, Howell A. (See Porter, Robert S., assignor.)
Williams, Isaac, Middlesboro, England. Mechanical coal-feed on gas-producers. No. 1,362,458; Dec. 14; v. 281; p. 340.
Williams, J. B., Company, The. (See Williams, Philip K., assignor.)
Williams, J. H. & Company. (See Bufford, George W., assignor.)
Williams, J. H., Company. (See Spencer, Philip, assignor.)
Williams, Jacob D. W., Tabor, N. C. Device for teaching penmanship. No. 1,343,244; June 15; v. 275; p. 437.
Williams, James A., Cincinnati, Ohio, assignor to Charles Mullis Manufacturing Company, Greensburg, Ind. Painting objects of art. No. 1,351,885; Sept. 7; v. 278; p. 85.
Williams, James F., Birmingham, Ala. Rail-joint nut-lock and guard. No. 1,357,370; Nov. 2; v. 280; p. 32.
Williams, James H., Leverett, Mass. Wrench. No. 1,337,678; Apr. 20; v. 273; p. 508.
Williams, James W., Spokane, Wash. Automobile identification-tag. No. 1,340,998; May 25; v. 274; p. 646.
Williams, James W., Spokane, Wash. Steam-generator for canning and cooking devices. No. 1,344,326; June 22; v. 275; p. 713.
Williams, John, Liverpool, England. Dental plate or denture. No. 1,339,640; May 11; v. 274; p. 261.
Williams, John, Clinton, Iowa. Pipe-coupling. No. No. 1,353,005; Sept. 14; v. 278; p. 288.
Williams, John, Chinton, Iowa. Train-pipe coupling. No. 1,353,006; Sept. 14; v. 278; p. 288.
Williams, John, Niagara Falls, N. Y., assignor to The Perfect Projector Machine Company, Buffalo, N. Y. Motion-picture machine. No. 1,360,341; Nov. 30; v. 280; p. 834.
Williams, John A., Aurora, Mo. Scarifier attachment for road-graders. No. 1,352,714; Sept. 14; v. 278; p. 230.
Williams, John C., Warwood, W. Va. Awning-roller support. No. 1,346,622; July 13; v. 276; p. 317.
Williams, John D., Charlotte, N. C. Bass-drum-operating mechanism. No. 1,350,195; Aug. 17; v. 277; p. 527.
Williams, John H., Stockton, Calif. Grease-retainer for axles of motor-vehicles. No. 1,343,603; June 15; v. 275; p. 506.
Williams, John M., and V. E. Smith, Harlem, Mont. Mail-bag catcher. No. 1,348,071; July 27; v. 278; p. 721.
Williams, John M., Jr., Greenwich, Conn. Airplane-cowling. No. 1,329,489; Feb. 3; v. 271; p. 28.
Williams, John W., Santa Rosa, Calif., assignor to Western Steel Auto-Wheel Company, Reno, Nev. Wheel. No. 1,337,869; Apr. 20; v. 273; p. 545.
Williams, Joseph A., Cleveland, Ohio. Alloy for electrical contact-points. No. 1,358,908; Nov. 16; v. 280; p. 440.
Williams, Joseph S., Riverton, N. J. Subaqueous tunnel. No. 1,329,317; Jan. 27; v. 270; p. 584.
Williams, Joseph S., Riverton, N. J. Plant for concrete construction. No. 1,349,992; Aug. 17; v. 277; p. 487.
Williams, Joseph S., Riverton, N. J. Waterway reinforced concrete construction and constructing same. No. 1,350,690; Aug. 24; v. 277; p. 670.
Williams, Joseph S., Philadelphia, Pa. Demountable wheel equipment. No. 1,340,199; May 18; v. 274; p. 424.
Williams, Joseph W., Blabon, N. D. Grain-cup clip. No. 1,332,090; Feb. 24; v. 271; p. 635.
Williams, Judson. (See Williams, Calvin C. and J.)
Williams, Lacey Y., deceased, Toledo, Ohio; M. S. Dodd, administrator. Journal-box and lubricator for car-axle journals. No. 1,344,667; June 29; v. 275; p. 846.
Williams, Lacey Y, deceased, Toledo, Ohio; M. S. Dodd, administrator. Contractile spring device. No. 1,353,881; Sept. 28; v. 278; p. 564.
Williams, Losey J., Beloit, Wis. Tightening device for clotheslines or the like. No. 1,360,846; Nov. 30; v. 280; p. 933.
Williams, Louis H., St. Joseph, Mo. Oil-cup. No. 1,350,196; Aug. 17; v. 277; p. 527.
Williams, Louis N. D., Ogontz, Pa. Facilitating the mechanical transfer of stitches from needles of knitting-machines. No. 1,344,468; June 22; v. 275; p. 742.
Williams, Louis N. D., Ogontz, Pa. Device for transferring and doubling knitted webs. No. 1,348,195; Aug. 3; v. 277; p. 12.
Williams, Lewis A. (See Reams, A. J., Jr., and Williams.)
Williams, Lynn A., *et al.*, trustees. (See Bradbury, Clifford C., assignor.)
Williams, Lynn A., Evanston, Ill. Vacuum-tank. No. 1,349,993; Aug. 17; v. 27; p. 488.
Williams, Melford L., and E. G. Kemper, Dallas, Tex. Cotton-separator. No. 1,349,142; Aug. 10; v. 277; p. 248.
Williams, Milton F., St. Louis, Mo. Pulley. No. 1,334,511; Mar. 23; v. 272; p. 599.
Williams, Milton F., assignor to Williams Patent Crusher and Pulverizer Company, St. Louis, Mo. Suction-nozzle and material-separator for reducing-machines. No. 1,327,452; Jan. 6; v. 270; p. 106.
Williams, Milton F., assignor to Williams Patent Crusher and Pulverizer Company, St. Louis, Mo. Cage construction for mills. No. 1,340,643; May 18; v. 274; p. 508.
Williams, Milton F., assignor to Williams Patent Crusher & Pulverizer Co., St. Louis, Mo. Sliding base for grinders. No. 1,350,691; Aug. 24; v. 277; p. 670.
Williams, Milton F., assignor to Williams Patent Crusher & Pulverizer Co., St. Louis, Mo. Supplementary hopper for feed-grinders. No. 1,359,215; Nov. 15; v. 280; p. 498.
Williams, Milton F., assignor to Williams Patent Crusher & Pulverizer Co., St. Louis, Mo. Cage for grinders. No. 1,359,303; Nov. 16; v. 280; p. 515.
Williams, Morris P., Gilbertville, Mass. Spindle-oiler. No. 1,360,845; Nov. 30; v. 280; p. 932.
Williams, Mowry S., assignor of one-half to J. R. Clancy, Syracuse, N. Y. Spark-plug. No. 1,337,679; Apr. 20; v. 273; p. 508.
Williams, Ned, Evansville, Tex. Mine-car-check lock. No. 1,330,669; Feb. 10; v. 271; p. 278.
Williams, Ormsby P., Trout Lake, Wash. Vertical cutter-bar attachment for harvesters. No. 1,336,267; Apr. 6; v. 273; p. 106.
Williams Patent Crusher and Pulverizer Co. (See Campbell, Edward B., assignor. (Reissue.)
Williams Patent Crusher and Pulverizer Co. (See Plaisted, Harold M., assignor.) (Reissue.)
Williams Patent Crusher & Pulverizer Co. (See Roberts, Alonzo J., assignor.)
Williams Patent Crusher & Pulverizer Co. (See Williams, Milton F., assignor.)
Williams, Paul F., assignor to G. & W. Electric Specialty Co., Chicago, Ill. Pot-head connector. No. 1,335,542; Mar. 30; v. 272; p. 853.
Williams, Percy N., Pelham Manor, N. Y. Odontometer. No. 1,340,354; May 18; v. 274; p. 453.
Williams, Philip K., assignor to The J. B. Williams Company, Glastonbury, Conn. Soap-holder. No. 1,331,549; Feb. 24; v. 271; p. 532.
Williams, Richard J., assignor of one-half to P. Grassi, San Francisco, Cal. Sash-balance. No. 1,350,584; Aug. 24; v. 277; p. 650.
Williams, Richard W. (See Keith, J. W., and Williams.)
Williams, Roger, assignor to Nitrogen Products Company, Providence, R. I. Producing alkali-metal ferricyanids and the like. No. 1,328,938; Jan. 27; v. 270; p. 514.
Williams, Robert A., Llanwuda, near Carnarvon, Wales. Two-stroke internal-combustion engine. No. 1,354,931; Oct. 5; v. 279; p. 96.
Williams, Roger, assignor to Nitrogen Products Company, Providence, R. I. Production of substantially pure carbon and the like. No. 1,352,162; Sept. 7; v. 278; p. 86.
Williams, Rowland T. D. (See Avery, D., and Williams.)
Williams, Roy O., Columbus, Ohio. Welder's tool. No. 1,345,817; July 6; v. 276; p. 96.
Williams, Roy W., Utica, S. D. Floor-lifting device. No. 1,343,862; June 15; v. 275; p. 559.
Williams, Roy W., Utica, S. D. Cultivator attachment. No. 1,354,364; Sept. 28; v. 278; p. 662.
Williams, Samuel B., Jr., Brooklyn, N. Y., and C. F. Baldwin, deceased; F. D. Baldwin, administratrix, Montclair, N. J. Telephone-exchange system. No. 1,337,740; Apr. 20; v. 273; p. 521.
Williams, Samuel B., Jr., Brooklyn, N. Y., assignor to Western Electric Company, Incorporated. Telephone-exchange system. No. 1,334,125; Mar. 16; v. 272; p. 481.

Digitized by Google

Williams, Samuel B., Jr., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,337,681; Apr. 20; v. 273; p. 509.

Williams, Samuel B., Jr., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Machine-switching telephone system. No. 1,340,997; May 25; v. 274; p. 646.

Williams, Samuel B., Jr., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,355,635; Oct. 12; v. 279; p. 286.

Williams, Samuel B., Jr., Brooklyn, N. Y., and R. L. Quass, Hawthorne, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,330,417; Feb. 10; v. 271; p. 232.

Williams, Samuel B., Jr., Brooklyn, and W. P. Albert, Newark, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Time-measuring system. No. 1,337,680; Apr. 20; v. 273; p. 509.

Williams, Samuel B., Jr., Brooklyn, N. Y., and B. G. Dunham, Hawthorne, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,355,634; Oct. 12; v. 279; p. 286.

Williams Sealing Corporation, The. (See Williams, G. A., Missel, and Lepper, assignors.)

Williams, Sidney, *et al.* (See Parker, Harry J., assignor.)

Williams, Simon F. See Hart, Walter V., assignor.)

Williams, Simon F. (See Maull, Edward N., assignor.)

Williams, Stanley E., San Francisco, Calif. Drafting-board. No. 1,347,426; July 20; v. 276; p. 535.

Williams, Theodosius A., Battle Ground, Wash. Flash-light holder. No. 1,344,073; June 22; v. 275; p. 664.

Williams, Thomas F. (See Harold, H. H., and Williams.)

Williams, Thomas O., Pasadena, Calif. Tanning fur. No. 1,355,374; Oct. 12; v. 279; p. 236.

Williams, Thomas W., Charleston, Ill. Attachment for corn-popping machines. No. 1,360,606; Nov. 30; v. 280; p. 886.

Williams, U. S. (See Speer, John G., assignor.)

Williams, Ward G., Brandon, Wis. Internal-combustion engine. No. 1,345,723; July 6; v. 276; p. 78.

Williams, Warren S., assignor to H. C. Fry Glass Company, Rochester, Pa. Making earthenware articles. No. 1,340,308; May 18; v. 274; p. 444.

Williams, William, Gilwern, Wales. Apparatus for manipulating ingots, bars, and the like in rolling-mills. No. 1,340,129; May 11; v. 274; p. 354.

Williams, William B., Greenville, S. C. Whip-roll for looms. No. 1,358,668; Nov. 9; v. 280; p. 347.

Williams, William E., Chicago, Ill. Wire wheel. No. 1,338,410; Apr. 27; v. 273; p. 716.

Williams, William E., Chicago, Ill. Metal fastener. No. 1,338,411; Apr. 27; v. 273; p. 717.

Williams, William E., Chicago, Ill. Submarine detecting and destroying apparatus. No. 1,344,074; June 22; v. 275; p. 665.

Williams, William E., Chicago, Ill. Metal door for railway-cars. No. 1,354,929; Oct. 5; v. 279; p. 96.

Williams, William E., Chicago, Ill. Cast-plate wheel for automobiles. No. 1,361,654; Dec. 7; v. 281; p. 136.

Williams, William E., Chicago, Ill. Automobile spoked wheel. No. 1,361,655; Dec. 7; v. 281; p. 136.

Williams, William E., Chicago, Ill., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Making tire-casings. No. 1,346,623; July 13; v. 276; p. 317.

Williams, William F. (See Parker, B., and Williams.)

Williams, William L., Jr., assignor to The Koppers Company, Pittsburgh, Pa. Pusher-ram-changing station. No. 1,351,224; Aug. 31; v. 277; p. 835.

Williams, William M., assignor of one-eighth to William Dawson, Reno, Nev. Distributing mechanism for hay-loaders for wagons. No. 1,353,201; Sept. 21; v. 278; p. 386.

Williams, William M., assignor of one-half to W. Dawson, Reno, Nev. Alfalfa-hay loader. No. 1,353,202; Sept. 21; v. 278; p. 386.

Williams, William R., Owensboro, Ky. Toy or display device. No. 1,327,415; Jan. 6; v. 270; p. 99.

Williams, Winfield, San Jose, Calif. Revolving teeter-board. No. 1,339,536; May 11; v. 274; p. 241.

Williams, Winfield S. (See Paine and Williams.)

Williamsburg Chemical Company. (See Heyder, Richard, assignor.)

Williamson, Arba G., Pittsburgh, Pa., and S. V. Huber, Los Angeles, Calif. Train-control system. No. 1,351,822; Sept. 7; v. 278; p. 22.

Williamson, Bert R., assignor to Keyes Fibre Company, Fairfield, Me. Apparatus for molding pulp articles. No. 1,360,847; Nov. 30; v. 280; p. 933.

Williamson, Bert R., Fairfield, Me., assignor to Keyes Fibre Company, Waterville, Me. Transferring mechanism for machines for molding pulp articles. No. 1,360,848; Nov. 30; v. 280; p. 933.

Williamson, C. S., and W. H. Hazard, Chicago, Ill.; said Hazard assignor to The Mead-Morrison Manufacturing Company, Boston, Mass. Dumping apparatus. No. 1,360,607; Nov. 30; v. 280; p. 886.

Williamson, Edwin. (See Hunter, J. W., and Williamson.)

Williamson, George H., Chicago, Ill. Doll walking device. No. 1,355,789; Oct. 12; v. 279; p. 315.

Williamson, George W., Oregon City, assignor of one-fourth to H. H. Burnham and J. E. Burnham, Dayton, Oreg. Thermostat. No. 1,363,072; Dec. 21; v. 281; p. 512.

Williamson, Herbert E., San Francisco, Calif. Centrifugal wringer. No. 1,356,250; Oct. 19; v. 279; p. 448.

Williamson Hydraulic Machine Company, The. (See Williamson, Romeo L., assignor.)

Williamson, Jesse O., Lewistown, Ill. Shade-roller bracket. No. 1,332,013; Feb. 24; v. 271; p. 621.

Williamson, John E., Yonkers, and H. F. Popken and A. G. Vale, New York, N. Y., assignors to American Tobacco Company. Packaging tobacco products. No. 1,347,330; July 27; v. 276; p. 611.

Williamson, Marshall I., Baltimore, Md. Vibratory-diaphragm controller. No. 1,340,471; May 18; v. 274; p. 475.

Williamson, R., & Co. (See Yardley, Horace R., assignor.)

Williamson, R. & Co. (See Verhunce, Charles E., assignor.)

Williamson, Robert B., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Coil-end support. No. 1,331,970; Feb. 24; v. 271; p. 612.

Williamson, Romeo L., Mount Vernon, Ohio. Power-transmission mechanism. No. 1,347,315; July 20; v. 276; p. 513.

Williamson, Romeo L., assignor to The Williamson Hydraulic Machine Company, Mount Vernon, Ohio. Power-transmission mechanism. No. 1,357,756; Nov. 2; v. 280; p. 105.

Williamson, Samuel S., Philadelphia, Pa. Duplex grease-cup. No. 1,332,453; Mar. 2; v. 272; p. 58.

Williamson, Samuel S., assignor to Economy Toilet Flush Company, Philadelphia, Pa. Apparatus for flushing water-closets. No. 1,358,600; Nov. 9; v. 280; p. 334.

Willinger, Max, New York, N. Y. Phonograph-record album. No. 1,332,656; Mar. 2; v. 272; p. 92.

Willinger, Max, New York, N. Y. Phonographic-record-album signature. No. 1,345,724; July 6; v. 276; p. 78.

Willingham, John W., Honolulu, Hawaii. Ash-tray. No. 1,348,676; Aug. 3; v. 277; p. 106.

Willis, Adrian, Meigs, Ga. Engine-valve lifter. No. 1,333,358; Mar. 9; v. 272; p. 276.

Willis, Anthony E., *et al.* (See Willis, Reuben M., assignor.)

Willis, Bernard D., assignor to Automatic Electric Company, Chicago, Ill. Telephone-exchange trunking system. No. 1,342,242; June 1; v. 275; p. 124.

Willis, Bernard D., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,345,054; June 29; v. 275; p. 919.

Willis, Charles C. (See Bradshaw, F. A., and Willis.)

Willis, Frank L., and H. O. Thomas, Santa Rosa, Calif. Tire-rim tool. No. 1,349,541; Aug. 10; v. 277; p. 327.

Willis, Fred V., Oswego, Ill. Liquid-elevating apparatus. No. 1,345,725; July 6; v. 276; p. 78.

Willis, Glenn H., assignor to The Miller Rubber Company, Akron, Ohio. Separable core. No. 1,348,612; Aug. 3; v. 277; p. 94.

Willis, Gordon J., *et al.* (See Willis, Reuben M., assignor.)

Willis, Harry P., Waterford, assignor to Willite Road Construction Company of America, New York, N. Y. Asphaltic pavement and foundation for pavements. No. 1,328,310; Jan. 20; v. 270; p. 866.

Willis, Herman R. (See Willis, Reuben M. and H. R.)

Willis, John, assignor to American Plate Glass Company, Kane, Pa. Sand-grading apparatus for glass-grinding machinery. No. 1,342,038; June 1; v. 275; p. 83.

Willis, Joseph H., assignor of one-half to J. A. Greene, Mahan, W. Va. Pole-setting device. No. 1,339,082; May 4; v. 274; p. 81.

Willis, Leland, and O. F. Woodworth, assignors to Bateman Manufacturing Company, Grenloch, N. J. Seed-planter. No. 1,327,455; Jan. 6; v. 270; p. 106.

Willis, Paul M., Orange, N. J., assignor to Radium Luminous Material Corporation, New York, N. Y. Self-luminous writing or reading device. No. 1,351,935; Sept. 7; v. 278; p. 45.

Willis, Pearl H., Minot, N. D. Amputation artificial foot. No. 1,356,251; Oct. 19; v. 279; p. 448.

Willis, Reuben M. and H. R., Chanute, Kans. Egg-carrier. No. 1,358,808; Nov. 16; v. 280; p. 421.

Willis, Reuben M., assignor of one-third to G. J. Willis and one-third to A. E. Willis, Chanute, Kans. Self-propelled vehicle. No. 1,344,108; June 22; v. 275; p. 671.

Willis, William C. (See Meredith, W. C., and Willis.)

Willis, William L. (See McKay, A. N., and Willis.)

Willison, Walter W. (See McColl and Willison.)

Williston, Benjamin F. (See Mock, J. C., Williston, and Fitzgerald.)

Williston, Mary M., Holyoke, Mass. Milk-bottle top. No. 1,332,183; Feb. 24; v. 271; p. 651.

Willite Road Construction Company of America. (See Willis, Harry P., assignor.)

Willits, Leland R., Atlantic City, N. J. Electrotester for testing automobile-motors. No. 1,357,604; Nov. 2; v. 280; p. 76.

Digitized by Google

Willma, John T., *et al.* (See Willma, Theodor J., assignor.)
Willma, Theodor J., assignor of one-eighth to P. Waraxa and one-eighth to J. T. Willma, Milwaukee, Wis. Toe-steamer. No. 1,348,340; Aug. 3; v. 277; p. 42.
Willmann, Alfred H., Wimbledon, England. Safety-shutter for cinematograph-projectors. No. 1,361,430; Dec. 7; v. 281; p. 91.
Willmore, Amy D., Maywood, British Columbia, Canada. Vehicle attachment. No. 1,339,246; May 4; v. 274; p. 110.
Willner, Max, New York, N. Y. Gauze-folding machine. No. 1,357,757; Nov. 2; v. 280; p. 106.
Willner, Sigmund, assignor to W. Dederich, London, England. Accumulator electrode-grid. No. 1,347,770; July 27; v. 276; p. 661.
Willoughby, M Alexander, Detroit, Mich. Internal-combustion-engine-cylinder-soldering metal composition. No. 1,355,202; Oct. 12; v. 279; p. 202.
Willour, Le Roy, assignor to The Ashland Products Company, Ashland, Ohio. Automobile-fan. No. 1,345,055; June 29; v. 275; p. 919.
Willringhaus, Gustav, Newark, N. J., assignor to R. Neumann Hardware Co. Trunk-fastener. No. 1,320,869; Feb. 3; v. 271; p. 98.
Wills, Child H., Detroit, Mich. Rail-steel. No. 1,331,175; Feb. 17; v. 271; p. 443.
Wills, Edwin C., Frederick, Md. Method and apparatus for molding or casting articles or ingots from molten metal. No. 1,347,728; July 27; v. 276; p. 652.
Wills, Frank M., Elgin, Ill. Tonneau-table for automobiles and the like. No. 1,348,613; Aug. 3; v. 277; p. 94.
Wills, James B. (See Culver, L. O., and Wills.)
Willsie, Henry E., Darien, Conn., assignor to The American Refrigeration Company. Refrigerating-machine. (Reissue.) No. 14,884; June 15; v. 275; p. 565.
Willsie, Henry E., Darien, Conn., assignor to The American Refrigeration Company. Ice-machine. (Reissue.) No. 14,885; June 15; v. 275; p. 565.
Willson, Frederick, assignor to T. A. Willson & Co., Inc., Reading, Pa. Goggles. No. 1,339,731; May 11; v. 274; p. 278.
Willson, George. (See Ohliger, L. P., Willson, White, and Reid.)
Willson, Homer, Trout Creek, Mont. Bevel-gage. No. 1,361,125; Dec. 7; v. 281; p. 29.
Willson, Lyman G. (See Jenkins, D., and Willson.)
Willson, T. A., & Co., Inc. (See Willson, Frederick, assignor.)
Willson, Thomas C., Philadelphia, Pa. Method of and apparatus for identifying pictures. No. 1,337,423; Apr. 20; v. 273; p. 460.
Willys, John N. (See MacNichol, George P., assignor.)
Willys, John W. (See Hagemeyer, Henry F., assignor.)
Willys-Overland Company, The. (See Kehoe, Thomas J., assignor.)
Willys-Overland Company, The. (See Lightner, Arthur D.)
Willys-Overland Company, The. (See McKinley, Charles W., assignor.)
Willys-Overland Company, The. (See Vetter, Albert, assignor.)
Wilmarth & Morman Company. (See Gorham, Edwin T., assignor.)
Wilmer, William H., Washington, D. C. Eye-shield. No. 1,336,009; Apr. 6; v. 273; p. 58.
Wilmort Manufacturing Company. (See Aisenstein, William, assignor.)
Wilmot, Benjamin A., Chicago, Ill. Road-indicator. No. 1,336,268; Apr. 6; v. 273; p. 106.
Wilmot, Harry R., Boston, Mass. Banjo attachment. No. 1,355,723; Oct. 12; v. 279; p. 303.
Wilmot, George, Linwood, Mass. Record-form. No. 1,339,995; May 11; v. 274; p. 328.
Wilputte, Alice A., *et al.* (See Hubbell, John E., assignor.)
Wilputte, Alice A., *et al.* (See Lucke, Charles E., assignor.)
Wilputte, Alice A., *et al.* (See Pavitt, William H., Jr., assignor.)
Wilputte, Alice A. (See Wilputte, Louis, assignor.)
Wilputte, Louis, *et al.* (See Hubbell, John E., assignor.)
Wilputte, Louis, *et al.* (See Lucke, Charles E., assignor.)
Wilputte, Louis, *et al.* (See Pavett, William H., Jr., assignor.)
Wilputte, Louis, assignor of two-thirds to A. A. Wilputte, New Rochelle, N. Y. Coke-oven-door mechanism. No. 1,344,218; June 22; v. 275; p. 692.
Wilputte, Louis, assignor of two-thirds to A. A. Wilputte, New Rochelle, N. Y. Coke-chamber and discharging guide therefor. No. 1,360,608; Nov. 30; v. 280; p. 886.
Wilputte, Louis, assignor of two-thirds to A. A. Wilputte, New Rochelle, N. Y. Regenerative coke-oven. No. 1,360,609; Nov. 30; v. 280; p. 886.
Wilputte, Louis, assignor of two-thirds to A. A. Wilputte, New Rochelle, N. Y. Regenerative coke-oven. No. 1,360,610; Nov. 30; v. 280; p. 887.
Wilputte, Louis, assignor of two-thirds to A. A. Wilputte, New Rochelle, N. Y. Coal-lorry. No. 1,362,977; Dec. 21; v. 281; p. 492.
Wilshusen, August E., Wichita, Kans. Tractor. No. 1,362,520; Dec. 14; v. 281; p. 352.
Wilshusen, William B. (See Derse, A. F., and Wilshusen.)
Wilsmore, John, Woollahra, near Sydney, New South Wales, Australia. Pneumatic dust-collecting system and apparatus therefor. No. 1,349,480; Aug. 10; v. 277; p. 315.
Wilson, Andrew A., Norfolk, Va. Sash-fastener. No. 1,351,936; Sept. 7; v. 278; p. 45.
Wilson, Anna C., Seattle, Wash. Embroidery-hoop holder. No. 1,335,308; Mar. 30; v. 272; p. 810.
Wilson, Arba M. C., Saline, Mich. Spark-plug. No. 1,359,642; Nov. 23; v. 280; p. 627.
Wilson, C. R. (See Myers, W. S., and Smith, assignors.)
Wilson, Calvert G., Columbus, Ohio. Corn-pad. No. 1,358,272; Nov. 9; v. 280; p. 267.
Wilson, Catherine V., Toledo, Ohio. Flatiron-rest. No. 1,343,699; June 15; v. 275; p. 526.
Wilson, Charles, Coventry, England. Coupling. No. 1,353,299; Sept. 21; v. 278; p. 404.
Wilson, Charles D., assignor to M. M. Wilson, Syracuse, N. Y. Removable oven. No. 1,336,058; Apr. 6; v. 273; p. 67.
Wilson, Charles E. (See Mills, C. B., and Wilson.)
Wilson, Charles E., assignor to Westinghouse Electric and Manufacturing Company, Wilkinsburg, Pa. Dynamo-electric machine. No. 1,358,809; Nov. 16; v. 280; p. 421.
Wilson, Charles E., Wilkins township, Allegheny county, and L. O. Parker, Swissvale, Pa., assignors to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,363,680; Dec. 28; v. 281; p. 660.
Wilson, Charles M., Philadelphia, Pa. Dump-car. No. 1,354,791; Oct. 5; v. 279; p. 69.
Wilson, Charles P., assignor to Roberts & Schaefer Company, Chicago, Ill. Measuring and hoisting apparatus. No. 1,363,029; Dec. 21; v. 281; p. 503.
Wilson, Charles W., York, Pa. Process and apparatus for making photographic prints. No. 1,353,690; Sept. 21; v. 278; p. 483.
Wilson, Christopher R., Philadelphia, Pa. Aeroplane. No. 1,345,726; July 6; v. 276; p. 78.
Wilson & Co., Inc. (See Blockson, Berget H., assignor.)
Wilson, Connie H., and C. G. Lee, Asheville, N. C. Attachment for thermos-bottles. No. 1,342,883; June 8; v. 275; p. 302.
Wilson, Dalton K., Waterloo, Iowa. Cultivator. No. 1,350,050; Aug. 17; v. 27; p. 499.
Wilson, David B., Gary, Ind. Horseman's coat. No. 1,330,152; Feb. 10; v. 271; p. 183.
Wilson, David H., Franklin township, Bergen county, N. J. System of electric welding. No. 1,333,359; Mar. 9; v. 272; p. 276.
Wilson, David H., Ridgewood Park, and R. G. Hutton, Wortendyke, N. J. Reinforced welded joint. No. 1,340,644; May 18; v. 274; p. 508.
Wilson, David H., Philadelphia, Pa. Sound-reproducing machine or phonograph. No. 1,363,946; Dec. 28; v. 281; p. 721.
Wilson, Edgar H., Trenton, N. J. Wire-protector. No. 1,361,211; Dec. 7; v. 281; p. 45.
Wilson, Edward. (See Hachmann, F., and Wilson.)
Wilson, Edward F., Webster Groves, Mo. Card index and display device. No. 1,336,115; Apr. 6; v. 273; p. 78.
Wilson, Elihu C., Los Angeles, Calif. Hoist. No. 1,341,057; June 1; v. 275; p. 68.
Wilson, Elihu C. and W. W., Los Angeles, Calif., assignors to said W. W. Wilson. Underreamer. No. 1,338,845; Apr. 27; v. 273; p. 704.
Wilson, Elihu C. and W. W., Los Angeles, Calif., assignors to said W. W. Wilson. Underreamer. No. 1,344,327; June 22; v. 275; p. 714.
Wilson, Ernest L., Preston, assignor of one-half to H. G. Wilson, London, England. Curtain-fitting. No. 1,339,247; May 4; v. 274; p. 110.
Wilson, Ervon J., assignor of one-half to A. O. Ouren, Minneapolis, Minn. Cuspidor. No. 1,330,828; Feb. 17; v. 271; p. 377.
Wilson, Frederick, Roosevelt, N. Y. Weather-strip. No. 1,361,657; Dec. 7; v. 281; p. 136.
Wilson, George, Algona, Iowa. Base-lock for reciprocating engines. No. 1,328,110; Jan. 13; v. 270; p. 292.
Wilson, George, Lincoln, Nebr. Milk-bottle holder. No. 1,356,480; Oct. 19; v. 279; p. 492.
Wilson, George A. (See Pickup, John H., assignor.)
Wilson, George W. (See Clare, Peter, assignor.)
Wilson, George W. (See Kilgore, T. S., and Wilson.)
Wilson, George W., Fresno, Calif. Water-cooling system for centrifugal-pump bearings. No. 1,362,551; Dec. 14; v. 281; p. 359.
Wilson, Harold G. (See Wilson, Ernest L., assignor.)
Wilson, Harold G., Titusville, Fla. Ice-cream-cone dispenser. No. 1,341,606; May 25; v. 274; p. 763.
Wilson, Harrison D., Chicago, Ill. Sleeping-car. No. 1,342,702; June 8; v. 275; p. 265.
Wilson, Harry B., Calgary, Alberta, Canada. Garden-hoe. No. 1,331,734; Feb. 24; v. 271; p. 568.
Wilson Imperial Company. (See Wilson, John M., assignor.)
Wilson, Ira L., New Castle, Pa. Hot-air motor. No. 1,356,578; Oct. 26; v. 279; p. 558.

Digitized by Google

Wilson, Isaac J., Malad, Idaho. Weed-cutter. No. 1,333,145; Mar. 9; v. 272; p. 236.
Wilson, J. G., Corporation, The. (See Higson, Albert J., assignor.)
Wilson, J. G. Corporation, The. (See Hill, Thomas A., assignor.)
Wilson, J. G., Corporation, The. (See Jones, Bassett, assignor.)
Wilson, James, West Allis, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Balancing device. No. 1,344,193; June 22; v. 275; p. 687.
Wilson, James H., Plainfield, N. J. Key-ring holder. No. 1,332,014; Feb. 24; v. 271; p. 621.
Wilson, James M., Canton, Ohio. Damper-regulator. No. 1,358,909; Nov. 16; v. 280; p. 440.
Wilson, James M., assignor to R. S. Lanz, Newark, N. J. Relay for storage-battery-charging systems. No. 1,344,970; June 29; v. 275; p. 903.
Wilson, James S., Scranton, Pa. Grate. No. 1,349,644; Aug. 17; v. 277; p. 420.
Wilson, James W. (See Bone, W. A., Wilson, and McCourt.)
Wilson, John, Wilmot, Mich. Fire-alarm apparatus. No. 1,356,104; Oct. 19; v. 279; p. 418.
Wilson, John A., Elizabeth, assignor to The Duratex Company, Newark, N. J. Coated fabric and producing same. No. 1,352,163; Sept. 7; v. 278; p. 87.
Wilson, John C., Peekskill, N. Y. Marking hat-bodies. No. 1,354,864; Oct. 5; v. 279; p. 83.
Wilson, John E., assignor to R. Bastress, Mount Carmel, Pa. Portable Knockdown building structure. No. 1,363,379; Dec. 28; v. 281; p. 611.
Wilson, John H., Philadelphia, Pa. Nut and bolt lock or fastener. No. 1,332,015; Feb. 24; v. 271; p. 621.
Wilson, John M., Healdton, Okla. Container. No. 1,342,243; June 1; v. 275; p. 124.
Wilson, John M., Montclair, N. J., assignor to Wilson Imperial Company, Newark, N. J. Spraying-brush. No. 1,333,146; Mar. 9; v. 272; p. 236.
Wilson, John S., assignor to Willamette Iron & Steel Works, Portland, Oreg. Logging-engine. No. 1,329,870; Feb. 3; v. 271; p. 99.
Wilson, John W., San Diego, Calif. Treating sewage. No. 1,331,735; Feb. 24; v. 271; p. 568.
Wilson-Jones Loose Leaf Company. (See Fargo, Charles R., assignor.)
Wilson, Joseph F., Lawrence, Mass. Fire-stop control. No. 1,334,925; Mar. 23; v. 272; p. 679.
Wilson, Kirke R., Buffalo, N. Y. Arbor-press. No. 1,346,868; July 20; v. 276; p. 425.
Wilson, Katnryne, Philadelphia, Pa. Hat-block. No. 1,361,658; Dec. 7; v. 281; p. 136.
Wilson, Lawrence W., Burlington, Iowa. Tie-plug machine. No. 1,348,126; July 27; v. 276; p. 731.
Wilson, Leonard, Salt Lake City, Utah, assignor to General Electric Company. Totalizing power system. No. 1,352,235; Sept. 7; v. 278; p. 100.
Wilson, Lloyd, Keswick, England. Gas-burner. No. 1,350,051; Aug. 17; v. 277; p. 499.
Wilson, Louie G., Morning Sun, Iowa. Float-valve. No. 1,340,999; May 25; v. 274; p. 646.
Wilson, Louie G., Morning Sun, Iowa. Automonocycle. No. 1,345,727; July 6; v. 276; p. 78.
Wilson, Luloff, Chicago, Ill. Roller-bearing. No. 1,327,003; Jan. 6; v. 270; p. 24.
Wilson, Luloff, Chicago, Ill. Tire-carrier. No. 1,327,261, Jan. 6; v. 270; p. 71.
Wilson, Lydell L., Randolph, N. Y. Building reinforced railway-beds. No. 1,350,760; Aug. 24; v. 277; p. 684.
Wilson, Marguerite M. (See Wilson, Charles D., assignor.)
Wilson, Michael, Brooklyn, N. Y. Window-guard. No. 1,356,953; Oct. 26; v. 279; p. 631.
Wilson, Paul J., Grimes, Iowa. Double-acting-pump-operating mechanism. No. 1,328,218; Jan. 13; v. 270; p. 312.
Wilson, Percy H., and C. H. Sapper, Norfolk, Va. Louvre-blind. No. 1,327,363; Jan. 6; v. 270; p. 90.
Wilson, Percy H., and C. H. Sapper, Norfolk, Va. Louvre-blind slat and clip. No. 1,327,364; Jan. 6; v. 270; p. 90.
Wilson, Percy H., and C. H. Sapper, Norfolk, Va. Jointed metallic tape. No. 1,327,365; Jan. 6; v. 270; p. 90.
Wilson, Philip. (See Carpenter, Henry W., assignor.)
Wilson, Ralph L., Bergen, Norway. Resilient wheels for vehicles. No. 1,352,858; Sept. 14; v. 278; p. 259.
Wilson, Reginald W., assignor to Sir W. G. Armstrong, Whitworth and Company, Limited, Newcastle-upon-Tyne, England. Valve for pneumatic percussive tools. No. 1,361,431; Dec. 7; v. 281; p. 91.
Wilson, Robert E., Cambridge, Mass. Production of permanganate. No. 1,330,032; Feb. 3; v. 271; p. 128.
Wilson, Robert E., U. S. Army. Absorbent. No. 1,333,524; Mar. 9; v. 272; p. 307.
Wilson, Robert E., Washington, D. C., and C. P. McNeil, Astoria, N. Y. Soda-lime composition and preparing same. No. 1,335,949; Apr. 6; v. 273; p. 46.
Wilson, Robert E., and W. G. Horsch, Washington, D. C. Electrolytic production of permanganate. No. 1,360,700; Nov. 30; v. 280; p. 904.
Wilson, Robert G., Davis, W. Va. Egg-mixer. No. 1,353,443; Sept. 21; v. 278; p. 432.
Wilson, Robert J., Grafton, Mass., assignor to D. T. Dudley & Sons Company, Wilkinsonville, Mass. Thread-retainer. No. 1,360,342; Nov. 30; v. 280; p. 834.
Wilson, Rosetta M., Claremore, Okla. Hairpin. No. 1,337,377; Apr. 20; v. 273; p. 452.
Wilson, Stanford, Davis, Calif. Draft-gear for gang-plows. No. 1,337,870; Apr. 20; v. 273; p. 545.
Wilson, Walter, Meridian, assignor of one-half to R. Barnum, Nampa, Idaho. Tool-handle oiler. No. 1,349,931; Aug. 17; v. 27; p. 475.
Wilson, Walter A., Elkhart, Kans. Windmill. No. 1,352,859; Sept. 14; v. 278; p. 259.
Wilson Welder & Metals Company. (See Churchward, Alexander, assignor.)
Wilson Welder & Metals Company. (See Churchward, Jack, assignor.)
Wilson, William, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Secret-signaling system. No. 1,354,932; Oct. 5; v. 279; p. 97.
Wilson, William A., Birmingham, England. Sliding window and its frame. No. 1,351,315; Aug. 31; v. 277; p. 854.
Wilson, William E., Mason City, Iowa. Wall construction. No. 1,350,399; Aug. 24; v. 277; p. 613.
Wilson, William R., Terre Haute, Ind. Wheel construction. No. 1,328,067; Jan. 13; v. 270; p. 283.
Wilson, William R., Terre Haute, Ind. Hub structure. No. 1,330,829; Feb. 17; v. 271; p. 377.
Wilson, William R, Terre Haute, Ind. Rolling-disk-colter hub. No. 1,340,693; May 18; v. 274; p. 517.
Wilson, William T., Bush, Ill. Railway-tie. No. 1,347,427; July 20; v. 276; p. 535.
Wilson, William W. (See Wilson, Elihu C. and W. W.)
Wilson, William W., Dallas, Tex. Churn. No. 1,333,360; Mar. 9; v. 272; p. 276.
Wilson, William W., Los Angeles, Calif. Apparatus for mineral separation. No. 1,341,770; June 1; v. 275; p. 31.
Wilson, William W., Los Angeles, Calif. Underreamer. No. 1,342,406; June 1; v. 275; p. 155.
Wilson, Wylie G., New York, N. Y. Coin-controlled vending machine. No. 1,340,174; May 18; v. 274; p. 419.
Wilson, Wylie G., New York, N. Y. Rotary valve. No. 1,361,126; Dec. 7; v. 281; p. 29.
Wilson, Wyle T., Philadelphia, Pa. Folded cardboard receptacle. No. 1,334,687; Mar. 23; v. 272; p. 632.
Wiltshire, James D. (See Frisz and Wiltshire.)
Wiltsie, George C., Schenectady, N. Y. Can-washer. No. 1,342,485; June 8; v. 275; p. 223.
Wily, James H., South Bethlehem, Pa. Gas-cannon. No. 1,352,715; Sept. 14; v. 278; p. 230.
Wilzin, Arthur. (See Roirant, Emil, assignor.)
Wilzin, Arthur, St. Ouen, France. Glass shaping or blowing machine. No. 1,338,604; Apr. 27; v. 273; p. 752.
Wimperis, Harry E., Goring-on-Thames, England. Instrument for aerial navigation. No. 1,343,952; June 22; v. 275; p. 641.
Wimperis, Herbert A., Minneapolis, Minn. Spring-oiler. No. 1,342,365; June 1; v. 275; p. 146.
Winans, Daniel M., assignor to The Brewer-Titchener Corporation, Binghamton, N. Y. Detachable light for vehicle-curtains. No. 1,336,116; Apr. 6; v. 273; p. 78.
Winans, Daniel M., assignor to The Brewer-Titchener Corporation, Binghamton, N. Y. Detachable light for vehicle-curtains. No. 1,337,302; Apr. 20; v. 273; p. 438.
Winans, Daniel M., assignor to The Brewer-Titchener Corporation, Binghamton, N. Y. Light for vehicle-curtains. No. 1,339,838; May 11; v. 274; p. 298.
Winans, Daniel M., assignor to The Brewer-Titchener Corporation, Binghamton, N. Y. Detachable light for vehicle-curtains. No. 1,363,702; Dec. 28; v. 281; p. 674.
Winberg, Charles. (See Winberg, Harry and C.)
Winberg, Harry and C., Waltham, Mass. Extensible table. No. 1,363,631; Dec. 28; v. 281; p. 660.
Winchester, Franklin E. (See Weller and Winchester.)
Winchester Repeating Arms Co. (See Blizard, Charles E., assignor.)
Winchester Repeating Arms Co. (See Brown, Walter T. K., assignor.)
Winchester Repeating Arms Co. (See Burton, Frank F., assignor.)
Winchester Repeating Arms Co. (See Gallagher, George D., assignor.)
Winchester Repeating Arms Co. (See Gravely, Julian S., assignor.)
Winchester Repeating Arms Co. (See Hannum, Harry A., assignor.)
Winchester Repeating Arms Co. (See Hemming, Otto L., assignor.)
Winchester Repeating Arms Co. (See Hemmingway, Horace B., assignor.)
Winchester Repeating Arms Co. (See Jermain, Herbert F., assignor.)
Winchester Repeating Arms Co. (See Jewett, Arthur C., assignor.)
Winchester Repeating Arms Co. (See Joeck, Thomas D., assignor.)
Winchester Repeating Arms Co. (See Johnson, Thomas C., assignor.)

Digitized by Google

Winchester Repeating Arms Co. (See Kasack, Frederick W., Jr., assignor.)
Winchester Repeating Arms Co. (See McLean, Robert G., assignor.)
Winchester Repeating Arms Co. (See Merriman, Thurston C., assignor.)
Winchester Repeating Arms Co. (See Robertson, John D., assignor.)
Winchester Repeating Arms Co. (See Scott, Edward A., assignor.)
Winchester Repeating Arms Co. (See Smith, Andrew, assignor.)
Winchester Repeating Arms Co. (See Terstyansky, Albert A., assignor.)
Winchester Repeating Arms Co. (See Tillman, Clarence W., assignor.)
Winchester Repeating Arms Company. (See Forbes, Nathaniel D., assignor.)
Winchester Repeating Arms Company. (See Spiers, Frederick G., assignor.)
Winchester Repeating Arms Company. (See Staples, Arthur L., assignor.)
Winchester, William I., and H. Laughlin, Jr., Los Angeles, Calif. Juice-extractor. No. 1,355,101; Oct. 5; v. 279; p. 129.
Winchester, William I., assignor to Laughlin Fruit Refiners, Inc., Los Angeles, Calif. Fruit-grader. No. 1,336,059; Apr. 6; v. 273; p. 67.
Winchester, William I., assignor to Laughlin Fruit Refiners, Inc., Los Angeles, Calif. Fruit-peel drier. No. 1,345,301; June 29; v. 275; p. 968.
Winchester, William W., Boston, Mass. Locking device for steering-wheels. No. 1,352,491; Sept. 14; v. 278; p. 185.
Winckel, Richard C. (See Nordenswan and Winckel.)
Wincrantz, John S. (See Austin, Walter S., assignor.)
Wind Electric Corporation. (See Clipfell, C. D., and Manikowske, assignors.)
Windahl, Henry, New Sharon, Iowa. Sanitary chicken-roost. No. 1,349,031; Aug. 10; v. 277; p. 226.
Windahl, Henry, assignor of one-third to A. M. Evans, New Sharon, Iowa. Poultry-roost. No. 1,351,456; Aug. 31; v. 277; p. 882.
Windbichler, Loyd, Nokomis, Ill. Dinner-pail. No. 1,351,823; Sept. 7; v. 278; p. 22.
Winder, Charles B., Columbus, Ohio. Firearm-sight. No. 1,339,248; May 4; v. 274; p. 110.
Winder, Samuel E., Chicago, Ill., and H. C. Daubenspeck, Dunkirk, Ind. Glass-molding machine. No. 1,331,792; Feb. 24; v. 271; p. 579.
Windhorst, Daniel, Ruskin, Nebr. Draft-equalizer. No. 1,332,701; Mar. 2; v. 272; p. 100.
Windisch, George W., assignor to W. C. Windisch Company, Detroit, Mich. Temporary binder. No. 1,339,249; May 4; v. 274; p. 110.
Windisch, William C., Company. (See Windisch, George W., assignor.)
Windle, Randolph T., New York, N. Y. Pump. No. 1,340,130; May 11; v. 274; p. 354.
Windle, Randolph T., New York, N. Y. Anchor. No. 1,356,481; Oct. 19; v. 279; p. 492.
Window Glass Machine Company. (See Waterloo, John, assignor.) (Reissue.)
Window Glass Rotary Pot Company. (See Standley, William E., assignor.)
Windsor-Bowen, Ernest, Surrey, assignor of thirty-five per cent. to T. L. Davies, London, England. Apparatus for supplying fuel to internal-combustion engines. No. 1,362,211; Dec. 14; v. 281; p. 293.
Windsor, Cecil S., London, England. Self-locking pivoted joint. No. 1,349,032; Aug. 10; v. 277; p. 227.
Windsor, Walter E., Baltimore, Md. Bolt-fastening. No. 1,346,578; July 13; v. 276; p. 309.
Wine, Louis, Detroit, Mich. Trousers-pocket. No. 1,330,364; Feb. 10; v. 271; p. 222.
Wine Railway Appliance Company, The. (See Wine, William E., assignor.)
Wine, William E., Toledo, Ohio. Skid. No. 1,359,138; Nov. 16; v. 280; p. 483.
Wine, William E., assignor to The Wine Railway Appliance Company, Toledo, Ohio. Car-ventilator. No. 1,359,555; Nov. 23; v. 280; p. 611.
Wine, William E., assignor to The Wine Railway Appliance Company, Toledo, Ohio. Car-ventilator. No. 1,359,556; Nov. 23; v. 280; p. 611.
Wine, William E., assignor to The Wine Railway Appliance Company, Toledo, Ohio. Car-ventilator. No. 1,359,557; Nov. 23; v. 280; p. 611.
Wine, William E., assignor to The Wine Railway Appliance Company, Toledo, Ohio. Car-ventilator. No. 1,359,558; Nov. 23; v. 280; p. 611.
Winegarden, Daniel, Tulsa, Okla. Mechanical movement. No. 1,359,304; Nov. 16; v. 280; p. 515.
Winegardner, Lloyd C. (See Snyder and Winegardner.)
Winer, Ignac P., Warsaw, Russian Poland. Apparatus for treating feed-water. No. 1,348,196; Aug. 3; v. 277; p. 12.
Wing, Daniel B., assignor of one-half to S. F. Atwood, Chicago, Ill. Garment-marker. No. 1,363,296; Dec. 28; v. 281; p. 596.
Wing, Roy E., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 1,351,082; Aug. 31; v. 277; p. 807.
Wingate, Walter, Victoria, British Columbia, Canada. Bearing-finder. No. 1,336,010; Apr. 6; v. 273; p. 58.
Wingen, Jean, Maastricht, Netherlands. Paint and making same. No. 1,341,250; May 25; v. 274; p. 694.
Winger, Fred F. (See Burns and Winger.)
Winger, Stover C., and A. Rickenbacher, Los Angeles, Calif. Electric speedometer. No. 1,341,958; June 1; v. 275; p. 68.
Wingert, John F., Jr., Brady township, Clearfield county, Pa. Tractor-coupling. No. 1,342,011; June 1; v. 275; p. 78.
Winget, Jasper S., York, Pa. Child's folding combined bed and coop. No. 1,340,694; May 18; v. 274; p. 517.
Winget Limited. (See Burn, J. F., and Turner, assignors.)
Winget Limited. (See Kiddle, Frederick W., assignor.)
Wingett, John N., assignor to W. A. Haggott, trustee, Denver, Colo. Treating coal. No. 1,337,496; Apr. 20; v. 273; p. 474.
Wingfield, Bernard R., West Drayton, England. Power-transmission toothed gearing. No. 1,351,597; Aug. 31; v. 277; p. 910.
Wingquist, Sven G., and B. W. Fjellman, assignors to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Machine for grinding conical rollers. No. 1,345,468; July 6; v. 276; p. 28.
Wingquist, Sven G., and N. A. Palmgren, assignors to Aktiebolaget Svenka Kullagerfabriken, Gottenborg, Sweden. Roller-bearing. No. 1,356,326; Oct. 19; v. 279; p. 463.
Wingqvist, Erik H., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Bevel gear-wheel. No. 1,332,151; Feb. 24; v. 271; p. 645.
Winiarski, Walter W., Buffalo, N. Y. Orthopedic appliance. No. 1,356,327; Oct. 19; v. 279; p. 463.
Winkelman, William J., Dayton, Ohio. Means for accurately locating the positions of holes to be bored. No. 1,330,225; Feb. 10; v. 271; p. 196.
Winkler, Albert. (See Demarmels, P., and Winkler.)
Winkler, Carl, Berne, Switzerland. Rotary printing-machine. No. 1,328,219; Jan. 13; v. 270; p. 312.
Winkler, Carl, Berne, Switzerland. Driving-gear for printing-machines. No. 1,328,220; Jan. 13; v. 270; p. 313.
Winkler, Carl, Berne, Switzerland. Lock-bearing for the composition rollers of printing-machines. No. 1,329,217; Jan. 27; v. 270; p. 566.
Winkler, Carl, Berne, Switzerland. Making stereotype matrices. No. 1,333,361; Mar. 9; v. 272; p. 277.
Winkler, Carl, Berne, Switzerland. Printing-machine having an oscillating impression-cylinder. No. 1,345,302; June 29; v. 275; p. 968.
Winkler, Carl, Berne, Switzerland. Press for imprinting and drying matrices. No. 1,356,419; Oct. 19; v. 279; p. 480.
Winkler, Carl, Berne, Switzerland. Letter-press printing. No. 1,356,420; Oct. 19; v. 279; p. 480.
Winkler, Joseph A., Chicago, Ill. Drip-board. No. 1,330,564; Feb. 10; v. 271; p. 259.
Winkler, William, Sandusky, Ohio. Can-cover remover. No. 1,335,084; Mar. 30; v. 272; p. 768.
Winkley, Erastus E., Lynn, Mass. Steering apparatus. No. 1,330,418; Feb. 10; v. 271; p. 232.
Winkley, Erastus E., Lynn, Mass. Liquid-measuring apparatus. No. 1,330,994; Feb. 17; v. 271; p. 409.
Winkley, Erastus E., Lynn, Mass. Bottle-handling mechanism. No. 1,344,013; June 22; v. 275; p. 653.
Winkley, Erastus E., Lynn, Mass. Automatic steering apparatus. No. 1,361,127; Dec. 7; v. 281; p. 29.
Winkley, Erastus E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Stock-cutting machine. No. 1,332,530; Mar. 2; v. 272; p. 69.
Winkley, Erastus E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Throw-out mechanism. No. 1,334,477; Mar. 23; v. 272; p. 593.
Winkley, Erastus E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Throw-out mechanism. No. 1,334,478; Mar. 23; v. 272; p. 593.
Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Stock-cutting machine. No. 1,342,144; June 1; v. 275; p. 104.
Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-building machine. No. 1,342,366; June 1; v. 275; p. 146.
Winkley, Erastus E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Automatic sewing-machine. No. 1,342,367; June 1; v. 275; p. 147.
Winkley, Erastus E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Shank-piece-laying machine. No. 1,344,781; June 29; v. 275; p. 868.
Winkley, Erastus E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Heel-breasting machine. No. 1,344,782; June 29; v. 275; p. 869.
Winkley, Erastus E., Lynn, Mass. Machine for packaging materials. No. 1,348,341; Aug. 3; v. 277; p. 42.

Winkley, Erastus E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Stock-cutting machine. No. 1,352,492; Sept. 14; v. 278; p. 185.

Winkley, Erastus E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Apparatus for handling blanks. No. 1,355,290; Oct. 12; v. 279; p. 221.

Winkley, Erastus E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Pasting and assembling machine. No. 1,356,845; Oct. 26; v. 279; p. 611.

Winkley, Erastus E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for handling washers and analogous articles. No. 1,358,910; Nov. 16; v. 280; p. 441.

Winkley, W. H. (See Macdonald, Robert B., assignor.)

Winkley, William H., Los Angeles, Calif. Heat-insulating material and making same. No. 1,332,370; Mar. 2; v. 272; p. 38.

Winks, John O., *et al.* (See Klenke, August C., assignor.)

Winn, Celestia M., Watonga, Okla. Bed. No. 1,339,250; May 4; v. 274; p. 111.

Winn, Charles A., assignor to Chicago Bearings Company, Chicago, Ill. Roller-bearing. No. 1,349,307; Aug. 10; v. 277; p. 281.

Winn, Sidney B., assignor to Lapeer Tractor Truck Company, Lapeer, Mich. Trailer. No. 1,346,927; July 20; v. 276; p. 437.

Winn, Warner A., Clarksville, Tenn. Rule for cutting roof-rafters. No. 1,343,604; June 15; v. 275; p. 507.

Winnek, Frederick G., Fairbury, Nebr. Combined tricycle and rocking-horse. No. 1,338,545; Apr. 27; v. 273; p. 741.

Winning, John F. F. (See Baumann, K., Guy, and Winning.)

Winsall, Albert W. (See Smith, E. M., and Winsall.)

Winship, Alfred J., Cambridge, England. Press for hay and the like. No. 1,335,309; Mar. 30; v. 272; p. 810.

Winskas, Mikolas, Easthampton, Mass. Fishing-rod. No. 1,337,378; Apr. 20; v. 273; p. 452.

Winslow, Charles H., *et al.* (See Kipp, George E., assignor.)

Winslow, Clark J., Correll, Minn. Rail-joint. No. 1,343,605; June 15; v. 275; p. 507.

Winslow, Dion I., Boston, Mass. Page arrangement for books. No. 1,353,371; Sept. 21; v. 278; p. 418.

Winslow, Elbert R., Maywood, Ill. Ventilating-fan support. No. 1,329,816; Feb. 3; v. 271; p. 88.

Winslow, Francis A., Chicago, Ill. Window. No. 1,351,083; Aug. 31; v. 277; p. 807.

Winslow, Hardin E., assignor of one-fourth to R. C. Wisner, Spokane, Wash. Motor-vehicle. No. 1,348,385; Aug. 3; v. 277; p. 50.

Winslow, Paul T., *et al.* (See Kipp, George E., assignor.)

Winslow Safety High-Pressure Boiler Company. (See Winslow, William H., assignor.)

Winslow, William H., assignor to Winslow Safety High-Pressure Boiler Company, Chicago, Ill. Removable plug for boilers and the like. No. 1,348,915; Aug. 10; v. 277; p. 204.

Winslow, William H., River Forest, assignor to Winslow Safety High-Pressure Boiler Company, Chicago, Ill. Fuel-feed system. No. 1,348,916; Aug. 10; v. 277; p. 204.

Winstein, Max, Montreal, Quebec, Canada. Mattress-guard. No. 1,346,579; July 13; v. 276; p. 309.

Winston, Gilmer, Memphis, Tenn. Film-developing tank. No. 1,350,761; Aug. 24; v. 277; p. 684.

Winston, Overton, Minneapolis, Minn. Electric headlight. No. 1,328,607; Jan. 20; v. 270; p. 422.

Winston, Overton, Minneapolis, Minn. Headlight. No. 1,336,602; Apr. 13; v. 273; p. 229.

Winston, Overton, Minneapolis, Minn. Headlight. No. 1,345,056; June 29; v. 275; p. 920.

Winston, Overton, Minneapolis, Minn. Headlight. No. 1,346,519; July 13; v. 276; p. 297.

Winston, Overton, Minneapolis, Minn. Headlight. No. 1,346,520; July 13; v. 276; p. 297.

Winston, Overton, Minneapolis, Minn. Headlight. No. 1,349,595; Aug. 17; v. 277; p. 411.

Winston, Overton, Minneapolis, Minn. Headlight. No. 1,355,876; Oct. 19; v. 279; p. 373.

Winston, Overton, Minneapolis, Minn. Headlight. No. 1,355,877; Oct. 19; v. 279; p. 374.

Winter, Anna K., New York, N. Y. Safe-door trap. (Reissue.) No. 14,840; Apr. 13; v. 273; p. 341.

Winter, Anna K., New York, N. Y. Circuit-closer for door-locks. No. 1,344,783; June 29; v. 275; p. 869.

Winter, Edwin M., Brooklyn, N. Y. Apparatus for forming hollow castings. No. 1,362,978; Dec. 21; v. 281; p. 493.

Winter, Courtney P., Holyoke, Mass. Movement-cure appliance. No. 1,354,865; Oct. 5; v. 279; p. 83.

Winter, Fred H., Schenectady, N. Y., assignor to General Electric Company. Regulating system. No. 1,339,996; May 11; v. 274; p. 328.

Winter, Fred H., Schenectady, N. Y., assignor to General Electric Company. Voltage-regulator for alternating-current generators. No. 1,353,691; Sept. 21; v. 278; p. 488.

Winter, George F., Los Angeles, Calif. Safety-gate. No. 1,347,198; July 20; v. 276; p. 489.

Winter, Henry B., Punxsutawney, Pa. Wrench. No. 1,341,094; May 25; v. 274; p. 665.

Winter, John R., Lansing, assignor to Kelsey Wheel Company, Detroit, Mich. Wheel-hub and forming same. No. 1,337,808; Apr. 20; v. 273; p. 533.

Winter, Julius. (See de Lukacsevics, Charles, assignor.)

Winter, Lloyd V., Juneau, Alaska. Cooking utensil. No. 1,328,702; Jan. 20; v. 270; p. 439.

Winter, Nelson B., Frostburg, Md. Corner rack and shelf. No. 1,345,977; July 6; v. 276; p. 129.

Winter, William E., Williamsport, Pa. Desk. No. 1,334,426; Mar. 23; v. 272; p. 584.

Winter, William G., and H. I. Finch, assignors to The Emerson Electric Manufacturing Company, St. Louis, Mo. Oscillating mechanism for electric fans. No. 1,347,981; July 27; v. 276; p. 702.

Winters, Brooks, Adams, Tenn. Swine-feeder. No. 1,333,787; Mar. 16; v. 272; p. 417.

Winters, Conrad A., Anaconda, Mont. Conveyer-belt cleaner. No. 1,330,967; Feb. 17; v. 271; p. 404.

Winters, David L., Edgewater, Md. Method of and means for supplying internal-combustion engines with fuel. No. 1,337,338; Apr. 20; v. 273; p. 445.

Winters, David L., Edgewater, Md. Operating internal-combustion engines. No. 1,342,656; June 8; v. 275; p. 256.

Winters, David L., Edgewater, Md. Choke-valve. No. 1,347,199; July 20; v. 276; p. 489.

Winters, Harry E., *et al.* (See Howes, Willis E., assignor.)

Winters, John H., Adams, Tenn. Hog-feeder. No. 1,340,096; May 11; v. 274; p. 346.

Winters, Robert E., Coraopolis, assignor of one-half to A. E. Dean, Pittsburgh, Pa. Speed-change mechanism. No. 1,352,716; Sept. 14; v. 278; p. 230.

Winters, William E. (See Whelpley, E. D., and Winters.)

Winther, Anthony, assignor to Harwin Truck Corporation, Kenosha, Wis. Differential-drive mechanism. No. 1,351,084; Aug. 31; v. 277; p. 808.

Winther Motor Truck Company. (See Downing, Virgil L., assignor.)

Winton, Alexander, Lakewood, Ohio. Protecting means for vessels. No. 1,337,809; Apr. 20; v. 273; p. 533.

Winton, Alexander, Lakewood, assignor to The Winton Gas Engine & Manufacturing Company, Cleveland, Ohio. Cam-shaft structure and oiling mechanism for internal-combustion motors. No. 1,339,839; May 11; v. 274; p. 298.

Winton Company, The. (See Thiemer, William H., assignor.)

Winton Gas Engine & Manufacturing Company, The. (See Winton, Alexander, assignor.)

Wion, George H. (See Hudd, A. E., and Wion.)

Wipperman, Louis W. (See Schwinger, Abraham I., assignor.)

Wire Wheel Corporation of America. (See House, Henry A., Jr., assignor.)

Wirebounds Patents Company. (See Babcock, Guilford C., assignor.)

Wirebounds Patents Company. (See Babcock, Oliver M., assignor.)

Wirebounds Patents Company. (See Bombardie, C. H., and Wagner, assignors.)

Wirebounds Patents Company. (See Bombardie, Charles H., assignor.)

Wirebound Patents Company. (See Grumme, Frederick J., assignor.) (Reissue.)

Wirebounds Patents Company. (See Healy, William P., assignor.)

Wirebounds Patents Company. (See Inwood, Richard G., assignor.)

Wirebounds Patents Company. (See Lavenberg, Perry C., assignor.)

Wiren, Carl E., Brooklyn, N. Y. Thermal circuit-closer. No. 1,342,317; June 1; v. 275; p. 137.

Wirkkala, Oscar A., Kent, Wash. Logging system. No. 1,336,877; Apr. 13; v. 273; p. 282.

Wirt, Charles, Philadelphia, Pa. Making electrical resistance units. No. 1,338,717; May 4; v. 274; p. 13.

Wirt, Paul E., Bloomsburg, Pa. Fountain-pen. No. 1,347,800; July 27; v. 276; p. 666.

Wirth, Emil, Waukomis, Okla. Fastening-bracket for the mitered ends of timbers or the like. No. 1,352,335; Sept. 7; v. 278; p. 119.

Wirth, Emil, and C. A. Demmler, Kewanee, Ill., assignors, by mesne assignments, to Walworth Manufacturing Company. Union-bottom-finishing machine. No. 1,330,508; Feb. 10; v. 271; p. 249.

Wirth, Ernst, Dortmund, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Producing resinous bases from tar. No. 1,339,310; May 4; v. 274; p. 121.

Wirth-Frey, Elias, Aarau, Switzerland. Producing foam in liquids. No. 1,351,089; Aug. 31; v. 277; p. 809.

Wirth, Jonn, New York, N. Y. Soap-holder. No. 1,350,585; Aug. 24; v. 277; p. 650.

Wirth, Philipp, New York, N. Y. Filling-faucet. No. 1,338,662; Apr. 27; v. 273; p. 763.

Wischhusen, Frederick B., Houston, Tex. Stamping-machine. No. 1,339,050; May 4; v. 274; p. 75.

Digitized by Google

Wischmeyer, Edward, Jr., *et al.* (See Norwood, Harry G., assignor.)
Wisconsin Chair Company, The. (See Hansen, Oswald H., assignor.)
Wisconsin Chair Company, The. (See Travers, Ray, assignor.)
Wisconsin Pearl Button Company. (See Koch, William J., assignor.)
Wise, Basil E., Canton, Ohio. Composition for razor or other strops. No. 1,353,979; Sept. 28; v. 278; p. 583.
Wise, Basil E., Canton, Ohio. Composition for razor or other strops. No. 1,360,343; Nov. 30; v. 280; p. 834.
Wise, Charles H., Winnetka, Ill. Window-shade spring adjuster. No. 1,341,530; May 25; v. 274; p. 749.
Wise, Clarence E., Washington, D. C. Portable hand-tool for stretching, tightening, and twisting the free ends of wire lengths. No. 1,351,598; Aug. 31; v. 277; p. 910.
Wise, Clarence E., Washington, D. C. Implement for fastening and sealing binder elements around receptacles. No. 1,362,068; Dec. 14; v. 281; p. 264.
Wise, Joseph C., Los Angeles, Calif. Tire. No. 1,330,732; Feb. 10; v. 271; p. 290.
Wise, Leo H., New York, N. Y. Union undergarment. No. 1,361,560; Dec. 7; v. 281; p. 118.
Wise, Louis E. (See Adams, E. Q., and Wise.)
Wise, Louis E., New York, N. Y., and E. Q. Adams, Berkeley, Calif. Making photographic sensitizing dyes of the isocyanin type. No. 1,338,346; Apr. 27; v. 273; p. 705.
Wise-McClung Manufacturing Company, The. (See Vander Putten, John R., assignor. (Reissue.)
Wise, Nathan, Brooklyn, N. Y. Incandescent electric lamp. No. 1,352,860; Sept. 14; v. 278; p. 259.
Wise Wheel Corporation of America. (See House, Henry A., Jr., assignor.)
Wise, William J., New Philadelphia, Ohio. Swiveled hose-nipple. No. 1,354,710; Oct. 5; v. 279; p. 53.
Wisegarver, Marion O., Umbarger, Tex. Milk-can cover. No. 1,340,097; May 11; v. 274; p. 347.
Wiselogel, Christian D., assignor to Peerless Wire Goods Company, La Fayette, Ind. Rack and corner bracket. No. 1,359,643; Nov. 23; v. 280; p. 627.
Wiselogel, James J., Detroit, assignor to National Spring & Wire Company, Albion, Mich. Cushion-seat. No. 1,339,537; May 11; v. 274; p. 241.
Wiseman, Goodwin W., assignor to D. M. Susi and N. H. Barrows, Waterville, Me. Potato-harvester. No. 1,360,849; Nov. 30; v. 280; p. 933.
Wiseman, Goodwin W., assignor to D. M. Susi and N. H. Barrows, Waterville, Me. Potato-harvester. No. 1,360,850; Nov. 30; v. 280; p. 933.
Wishart, James B., Trenton, N. J. Sponge-rubber article and making same. No. 1,345,904; July 6; v. 276; p. 114.
Wishart, John O., and W., assignors to Clinton Refrigerating Company, Clinton, Iowa. Compressor. No. 1,360,611; Nov. 30; v. 280; p. 837.
Wishart, William. (See Wishart, John O. and W.)
Wishon, Ralph, San Francisco, Calif., assignor, by mesne assignments, to The Davis Sewing Machine Company. Chain-track. No. 1,331,550; Feb. 24; v. 271; p. 533.
Wiski, Joseph, assignor of one-half to J. Olesiak, Milwaukee, Wis. Envelop. No. 1,347,609; July 27; v. 276; p. 628.
Wismer, George C., Santa Barbara, Calif. Sound-board. No. 1,353,555; Sept. 21; v. 278; p. 455.
Wisner, C. N., Cotton Picker Company. (See Wisner, Clark N., assignor.)
Wisner, Charles E. (See Arnold, Philip S., assignor.)
Wisner, Charles E. (See Payne, Herbert E., assignor.)
Wisner, Clark N., New Orleans, La. Flying-machine. No. 1,358,487; Nov. 9; v. 280; p. 311.
Wisner, Clark N., New Orleans, La. Picker-head. No. 1,341,959; June 1; v. 275; p. 68.
Wisner, Clark N., assignor to C. N. Wisner Cotton Picker Company, Incorporated, New Orleans, La. Cotton-picker. No. 1,329,067; Jan. 27; v. 270; p. 538.
Wisner, Clark N., assignor to C. N. Wisner Cotton Picker Co., Incorporated, New Orleans, La. Cotton-picker head. No. 1,336,176; Apr. 6; v. 273; p. 89.
Wisner, Rolla C. (See Winslow, Hardin E., assignor.)
Wisniefski, Jozef, Bloomfield, N. J. Dancing toy. No. 1,334,578; Mar. 23; v. 272; p. 612.
Wisniewska, Emilia, Washington, Pa. Shopping-bag. No. 1,341,404; May 25; v. 274; p. 724.
Wisniewski, Felix, South Amboy, N. J. Rail-clamp. No. 1,342,078; June 1; v. 275; p. 91.
Wisniewski, Joseph, New Acme, Wyo. Roller-skate. No. 1,332,702; Mar. 2; v. 272; p. 101.
Wiss, Carl A., West Fort Dodge, Iowa. Sealing device. No. 1,331,133; Feb. 17; v. 271; p. 435.
Wissel, August. (See Stolzenwald, Frederick, assignor.)
Wissmann, Lina, Miller, Mo. Skirt-supporter. No. 1,354,933; Oct. 5; v. 279; p. 97.
Wister, Harry H., Douglas, Wyo. Water-motor. No. 1,356,421; Oct. 19; v. 279; p. 481.
Wiswall, William J., Portland, Oreg. Manifolding device. No. 1,349,865; Aug. 17; v. 277; p. 463.
Witham, George S., Jr., Ausable Forks, N. Y. Indicating device for self-propelled vehicles. No. 1,359,944; Nov. 23; v. 280; p. 687.
Witherbee Igniter Company. (See Louis, Terrence G., assignor.)
Witherell, Earl M., assignor of one-half to F. A. Patrick & Company, Duluth, Minn. Legging. No. 1,334,825; Mar. 23; v. 272; p. 659.
Withers, Joseph, and H. G. O'Brien, Warren, Ohio. Roll-driving connection. No. 1,336,177; Apr. 6; v. 273; p. 90.
Withrow, Floyd G., Grand Rapids, Mich. Oil-alarm device. No. 1,349,991; Aug. 17; v. 277; p. 487.
Withycombe, Robert M., Sydney, New South Wales, Australia. Artificial tooth. No. 1,333,007; Mar. 9; v. 272; p. 210.
Witkowski, Chester. (See Witkowski, James and C.)
Witkowski, James and C., Gary, Ind. Wire-cutting projectile. No. 1,330,291; Feb. 10; v. 271; p. 208.
Witman, Daniel P., East Somerville, Mass. Safety air-valve. No. 1,356,579; Oct. 26; v. 279; p. 558.
Witman, Daniel P., East Somerville, Mass. Safety air-valve. No. 1,356,580; Oct. 26; v. 279; p. 558.
Witt, Charles V., Pittsburgh, Pa. Gas-burner. No. 1,360,981; Nov. 30; v. 280; p. 959.
Witt, Frederick C., Roanoke, Va. Link-chain. No. 1,345,818; July 6; v. 276; p. 96.
Witt, James C., Cairo, Ill. Fire-fighting apparatus. No. 1,351,085; Aug. 31; v. 277; p. 808.
Witt, John F., Winchendon, Mass. Clean-out header for sewer-entrances. No. 1,349,245; Aug. 10; v. 277; p. 269.
Witt, Peter S., East Juniata, assignor of thirty per cent. to R. O. Frontz and thirty per cent. to G. A. Melson, Juniata, Pa. Valve-operating mechanism. No. 1,356,103; Oct. 19; v. 279; p. 418.
Witt, William H., assignor of one-half to R. A. Titmus, Petersburg, Va. Clothespin. No. 1,347,429; July 20; v. 276; p. 535.
Witt, William J., Ericson, Nebr. Means for returning hay-hoisting ropes. No. 1,330,670; Feb. 10; v. 271; p. 279.
Witte, Jessie E. (See Fields, James A., and Witte.)
Witte, Paul O., Minneapolis, Minn. Vehicle-top. No. 1,335,085; Mar. 30; v. 272; p. 769.
Wittekind, Arnold F., Trenton, N. J. Cooking utensil. No. 1,347,428; July 20; v. 276; p. 535.
Wittemann, Charles R., Richmond, N. Y. Aeroplane. No. 1,341,029; May 25; v. 274; p. 652.
Witten, William A., Duncan, Okla. Resilient wheel. No. 1,338,061; Apr. 27; v. 273; p. 651.
Wittenmeier, Frederick W. (See Eulberg, John P., assignor.)
Witter, Claude A., Philadelphia, Pa. Manufacturing metallic shapes. No. 1,348,677; Aug. 3; v. 277; p. 106.
Witter, Claude A., Philadelphia, Pa. Railway-rail. No. 1,348,678; Aug. 3; v. 277; p. 106.
Witter, Ezra E., assignor of one-third to J. Post, Zion City, Ill. Hinge. No. 1,340,866; May 18; v. 274; p. 549.
Witthuhn, Edward F., Appleton, Wis. Washing-machine. No. 1,358,601; Nov. 9; v. 280; p. 334.
Wittich, Henry T., Ashtabula, Ohio. Fastening device for vehicle-tops. No. 1,348,917; Aug. 10; v. 277; p. 204.
Wittich, William F., Erie, Pa. Wheel mechanism. No. 1,333,650; Mar. 16; v. 272; p. 392.
Wittig, Emil, Basel, Switzerland. Rotary machine. No. 1,364,014; Dec. 28; v. 281; p. 734.
Wittmaack, Christian L. H., Zehlendorf, near Berlin, Germany. Arrangement for driving ships' propellers. No. 1,336,770; Apr. 13; v. 273; p. 261.
Wittmann, Jokshan F., St. Louis, Mo. Air-cooler for engines. No. 1,336,457; Apr. 13; v. 273; p. 201.
Wittnebert, Duke, Del Rio, Tex. Adding and subtracting machine. No. 1,361,949; Dec. 14; v. 281; p. 241.
Wittstein, Herman L., Springfield, assignor to Chapman Valve Manufacturing Company, Indian Orchard, Mass. Gate-valve. No. 1,340,591; May 18; v. 274; p. 498.
Witty, George, New York, N. Y. Cement. No. 1,336,178; Apr. 6; v. 273; p. 90.
Witzel, Joseph R., Tacony, Pa. Building construction. No. 1,362,069; Dec. 14; v. 281; p. 265.
Witzoreck, Carl J., Millvale, Pa. Acquaintance-promoting machine. No. 1,329,218; Jan. 27; v. 270; p. 566.
Wlodkowski, Wladyslaw, Lynn, Mass. Driving mechanism for brushing and polishing apparatus. No. 1,336,117; Apr. 6; v. 273; p. 78.
Wocel, Frank E., New York, N. Y. Sanitary milk-bottle holder. No. 1,341,607; May 25; v. 274; p. 763.
Wodack Electric Tool Corporation. (See Lochner, Albert T., assignor.)
Wodraska, Walter J., New York, N. Y. Player-piano action. No. 1,349,481; Aug. 10; v. 277; p. 315.
Woelfel, William, Peabody, Mass. Safety appliance for power-presses and like machines. No. 1,331,551; Feb. 24; v. 271; p. 533.
Woerheide, William H., New York, N. Y. Fastening device for roofing. No. 1,357,265; Nov. 2; v. 280; p. 13.
Woerner, Eugen, assignor to the Firm of Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Common cam-driving device for actuating the pistons of a plurality of pumps. No. 1,336,803; Apr. 13; v. 273; p. 268.
Woerner, William P., Lancaster, Pa. Detonating device. No. 1,334,826; Mar. 23; v. 272; p. 659.

Digitized by Google

Alphabetical list of patentees—Continued.

Woernley, Harry F., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Draft-gear. No. 1,343,295; June 15; v. 275; p. 446.
Woernley, Harry F., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Draft-gear. No. 1,343,296; June 15; v. 275; p. 446.
Woertz, Charles H. (See Bush, Charles F., assignor.)
Woerz, Henry C., New York, N. Y. Air-navigating vessel. No. 1,340,309; May 18; v. 274; p. 444.
Wofford, Ormand. (See Oberste and Wofford.)
Wohl, L., & Company. (See Goldberger, Leo J., assignor.)
Wohl, M. J., & Co. (See Mayer, M., and Yeo, assignors.)
Wohlauer, Alfred A., New York, N. Y. Lighting-fixture. No. 1,329,280; Jan. 27; v. 270; p. 577.
Wohler, Emil R., Chicago, Ill. Binder. No. 1,336,495; Apr. 13; v. 273; p. 208.
Wohlgemuth, Jacob J., and F. Lilly, Chicago, Ill. Apparatus for making inner tires. No. 1,329,872; Feb. 3; v. 271; p. 99.
Wohlhuter, Marius Z., assignor to Cruver Manufacturing Company, Chicago, Ill. Fly-killer. No. 1,331,306; Feb. 17; v. 271; p. 466.
Wohlpart, August J. (See Onderdonk, L., and Wohlpart.)
Wohlpart, August J. (See Scott, W. W., and Wohlpart.)
Wohlmann, Friedrich, Los Angeles, Calif. Extension-table. No. 1,351,457; Aug. 31; v. 277; p. 882.
Wohlscheid, Michael A., *et al.* (See Claire, Louis V., assignor.)
Wohlscheid, Nicholas, *et al.* (See Claire, Louis V., assignor.)
Wolcula, Michael, Detroit, Mich. Internal-combustion engine. No. 1,342,368; June 1; v. 275; p. 147.
Wójcik, Frank, Holyoke, Mass. Multiple trap. No. 1,353,882; Sept. 28; v. 278; p. 564.
Wojdacz, Mike, Newton Upper Falls, Mass. Compound tool. No. 1,331,793; Feb. 24; v. 271; p. 579.
Wojtkiewicz, Adam, Ranshaw, Pa. Car-replacer. No. 1,357,371; Nov. 2; v. 280; p. 33.
Wojtasiewicz, Joseph, Chadwicks, N. Y. Snowplow. No. 1,328,026; Jan. 13; v. 270; p. 276.
Woken, Elfon P., Northwood, N. D. Flash-absorber for machine-guns. No. 1,339,614; May 11; v. 274; p. 256.
Wolak, Kornelia, Passaic, N. J. Kitchen utensil. No. 1,363,632; Dec. 28; v. 281; p. 660.
Wolcott, Chandler, Rochester, N. Y. Keyboard. No. 1,342,244; June 1; v. 275; p. 124.
Wolcott, Darwin S., trustee. (See Diescher, Samuel E., assignor.)
Wolcott, Darwin S., trustee. (See Hopwood, John M., assignor.)
Wolcott, Darwin S., trustee. (See Peebles, Thomas A., assignor.)
Wolcott, Edson R., assignor to International Precipitation Company, Los Angeles, Calif. Precipitating suspended material from furnace-gas. No. 1,329,737; Feb. 3; v. 271; p. 73.
Wolcott, Edson R., assignor to International Precipitation Company, Los Angeles, Calif. Art of precipitating suspended material from gases. No. 1,329,817; Feb. 3; v. 271; p. 88.
Wolcott, Edson R., assignor to International Precipitation Company, Los Angeles, Calif. Collecting suspended material from furnace-gases. No. 1,329,818; Feb. 3; v. 271; p. 88.
Wolcott, Edson R., assignor to International Precipitation Company, Los Angeles, Calif. Precipitating suspended material from gases. No. 1,331,225; Feb. 17; v. 271; p. 451.
Wolcott, Edson R., assignor to International Precipitation Company, Los Angeles, Calif. Form of potassium chlorate and producing same. No. 1,355,203; Oct. 12; v. 279; p. 202.
Woldgaard, Max W. H., Eccles, near Manchester, England. Gage. No. 1,363,297; Dec. 28; v. 281; p. 596.
Wolf, Augustus, Chambersburg, Pa. Middlings-mill. No. 1,344,470; June 22; v. 275; p. 742.
Wolf, Charles, Philadelphia, Pa. Lock. No. 1,344,469; June 22; v. 275; p. 742.
Wolf, Emil E., La Chaux-de-Fonds, Switzerland. Micrometer. No. 1,331,794; Feb. 24; v. 271; p. 579.
Wolf, Ernest A. P., New York, N. Y. Loose-leaf book. No. 1,343,103; June 8; v. 275; p. 346.
Wolf, Fred W., assignor, by mesne assignments, to The Isko Company, Chicago, Ill. Process of and apparatus for refrigerating. No. 1,337,175; Apr. 13; v. 273; p. 339.
Wolf, George D., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Switchboard apparatus. No. 1,330,565; Feb. 10; v. 271; p. 259.
Wolf, George D., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. System for interconnecting manual and automatic telephone-exchanges. No. 1,343,489; June 15; v. 275; p. 484.
Wolf, Herbert W., Milford, Iowa. Valve-grinding tool. No. 1,334,479; Mar. 23; v. 272; p. 598.
Wolf, John, Topeka, Kans. Latch-lock. No. 1,336,496; Apr. 13; v. 273; p. 208.
Wolf, John L., Logansport, Ind. Automatic train-stop. No. 1,330,671; Feb. 10; v. 271; p. 279.
Wolf, Robert B. (See Fagan, Spear, and Wolf.)
Wolf, Rufus P., *et al.* (See Kay, Samuel P., assignor.)
Wolfaardt, Pieter H., Jeppestown, Johannesburg, South Africa. Signal for motor-vehicles. No. 1,338,114; Apr. 27; v. 273; p. 661.
Wolfanger, Alonzo, Trenton, N. J. Support for riveting-tools; No. 1,364,015; Dec. 28; v. 281; p. 734.
Wolfard, Merl R., Cambridge, Mass. Atomizing-nozzle. No. 1,342,486; June 8; v. 275; p. 223.
Wolfe, Allan S., Washington, D. C. Composition for cleansing artificial dentures and the like. No. 1,345,819; July 6; v. 276; p. 96.
Wolfe, Arthur P., Philadelphia, Pa. Bean-snipping machine. No. 1,359,559; Nov. 23; v. 280; p. 611.
Wolfe, Arthur U. (See Wolfe, Ezra A., assignor.)
Wolfe, Charles A., Suedberg, Pa. Wire-rope clamp. No. 1,338,062; Apr. 27; v. 273; p. 651.
Wolfe, Charles A., Detroit, Mich. Grinder for cylinders. No. 1,354,866; Oct. 5; v. 279; p. 84.
Wolfe, Everett K., Westchester, N. Y. Soap-holder. No. 1,337,535; Apr. 20; v. 273; p. 482.
Wolfe, Everett K., Westchester, N. Y. Bottle-protector. No. 1,338,063; Apr. 27; v. 273; p. 651.
Wolfe, Everett K., Westchester, N. Y. Wire-protector for nursing-bottles. No. 1,345,654; July 6; v. 276; p. 63.
Wolfe, Ezra A., assignor of one-half to A. U. Wolfe, Morgantown, W. Va. Foot-piece. No. 1,338,889; Mar. 16; v. 272; p. 436.
Wolfe, Frank. (See Sprinkle, Lake H., and Wolfe.)
Wolfe, Garnett H., assignor to Rotary Rod Weeder and Manufacturing Company, Incorporated, Cheney, Wash. Rotary rod-weeder. No. 1,338,203; Apr. 27; v. 273; p. 678.
Wolfe, Guy F., Frederick, Md. Air compressor and regulator. No. 1,342,487; June 8; v. 275; p. 224.
Wolfe, Harry M., New York, N. Y. Wing. No. 1,348,679; Aug. 3; v. 277; p. 107.
Wolfe, Henry K., assignor to Rotary Rod Weeder and Manufacturing Company, Incorporated, Cheney, Wash. Weeder and cultivator. No. 1,338,204; Apr. 27; v. 273; p. 678.
Wolfe, John G., Chicago, Ill. Shoe for pneumatic tires. No. 1,362,979; Dec. 21; v. 281; p. 493.
Wolfe, Lester. (See Bauer, L. W., and Davis, assignors.)
Wolfe, Michael, Chicago, Ill., assignor, by mesne assignments, to Wolff Coal Saver Company. Fuel-saving apparatus. No. 1,348,918; Aug. 10; v. 277; p. 204.
Wolfe, Paul T., and W. H. Bovard, Los Angeles, Calif. Aeroplane. No. 1,353,692; Sept. 21; v. 278; p. 484.
Wolfe, William. (See Mitchell, J. E., Wolfe, and Parks.)
Wolferman, Guido, Chicago, Ill. Bottle-stopper. No. 1,342,657; June 8; v. 275; p. 256.
Wolff, Aaron H., New York, N. Y. Gas-toaster. No. 1,353,203; Sept. 21; v. 278; p. 386.
Wolff, Charles, Chicago, Ill., assignor, by mesne assignments, to Wolff Coal Saver Company. Fuel-saver. No. 1,348,919; Aug. 10; v. 277; p. 204.
Wolff Coal Saver Company. (See Goldberg, Herman, assignor.)
Wolff Coal Saver Company. (See Wolfe, Michael, assignor.)
Wolff Coal Saver Company. (See Wolff, Charles, assignor.)
Wolff, Elisabet, Charlottenburg, Germany. Apparatus for opening and manufacturing conserve - boxes. No. 1,356,581; Oct. 26; v. 279; p. 558.
Wolff, Fay M., Louisville, Ky. Drive-gearing. No. 1,327,129; Jan. 6; v. 270; p. 47.
Wolff, Franklin J., Trenton, N. J. Method of and means for producing saggars and the like. No. 1,337,871; Apr. 20; v. 273; p. 545.
Wolff, Franklyn J., Trenton, N. J. Casting articles of clay. No. 1,351,599; Aug. 31; v. 277; p. 911.
Wolff, Franklyn J., assignor of one-half to H. W. Wolff, Chicago, Ill. Vehicle-spring. No. 1,327,750; Jan. 13; v. 270; p. 224.
Wolff, George, Paterson, N. J. Antifriction-bearing. No. 1,340,310; May 18; v. 274; p. 444.
Wolff, Harold W. (See Wolff, Franklyn J., assignor.)
Wolff, Herbert W., Chicago, Ill., assignor to American Car and Foundry Company, New York, N. Y. Interlocking spring-plank. No. 1,336,458; Apr. 13; v. 273; p. 202.
Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora Phonograph Corporation. Talking-machine. No. 1,350,762; Aug. 24; v. 277; p. 684.
Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora Phonograph Corporation. Indicator for Phonograph-reproducers. No. 1,350,763; Aug. 24; v. 277; p. 684.
Wolff, Lionel A., Los Angeles, Calif. Manufacturing felt shoes. No. 1,344,930; June 29; v. 275; p. 896.
Wolff, Michael J., St. Louis, Mo. Rotary automatic cornucopia-baking machine. No. 1,344,285; June 22; v. 275; p. 705.
Wolff, Michael J., St. Louis, Mo. Combined trimming and nesting machine for ice-cream cornucopias. No. 1,344,286; June 22; v. 275; p. 706.
Wolff, Oscar M., Chicago, Ill. Low-temperature cooking apparatus. No. 1,332,016; Feb. 24; v. 271; p. 621.
Wolff, William S., St. Paul, Minn. Spark-plug tester. No. 1,332,017; Feb. 24; v. 271; p. 621.
Wolffgram, Ludwig, Erie, Pa. Annealing-furnace. No. 1,329,873; Feb. 3; v. 271; p. 99.

Digitized by Google

Wolffgram, Ludwig, Erie, Pa. Rolling-mill. No. 1,352,493; Sept. 14; v. 278; p. 185.
Wolffsohn, Lionel, (now by judicial change of name L. M. Woolson,) Hoboken, N. J., assignor, by mesne assignments, to Bijur Motor Appliance Company. Engine-starting apparatus. No. 1,330,566; Feb. 10; v. 271; p. 260.
Wolffsohn, Lionel M., (now by judicial change of name L. M. Woolson,) Weehawken, N. J., assignor, by mesne assignments, to Bijur Motor Appliance Company. Electrical apparatus for automobiles. No. 1,330,567; Feb. 10; v. 271; p. 260.
Wolffsohn, Lionel M., now by judicial change of name Lionel M. Woolson, Union, N. J., assignor, by mesne assignments, to Bijur Motor Appliance Company. Engine-starting apparatus. No. 1,349,866; Aug. 17; v. 277; p. 464.
Wolffsohn, Lionel M., (now by judicial change of name Lionel M. Woolson.) Weehawken, N. J., assignor, by mesne assignments, to Bijur Motor Appliance Company. Electrical system for aeroplanes and the like. No. 1,362,380; Dec. 14; v. 281; p. 325.
Wolford, Stanley P., London Mills, Ill. Seat-back for farm machinery. No. 1,358,273; Nov. 9; v. 280; p. 267.
Wolfrum, Raymond I. (See Wolfrum, Stanley A., and R. I.)
Wolfrum, Stanley A., and R. I., Chicago, Ill. Automatic winding device for phonographs. No. 1,358,602; Nov. 9; v. 280; p. 334.
Wolhaupter, Benjamin, New Rochelle, N. Y. Removable welded rail-anchor. No. 1,329,153; Jan. 27; v. 270; p. 554.
Wolhaupter, Benjamin, New Rochelle, N. Y. Rail-anchor. No. 1,344,014; June 22; v. 275; p. 653.
Wolhaupter, Benjamin, New Rochelle, N. Y. Rail-anchor. No. 1,344,015; June 22; v. 275; p. 653.
Wolhaupter, Benjamin, New Rochelle, N. Y. Rail-anchor. No. 1,344,016; June 22; v. 275; p. 653.
Wolhaupter, Benjamin, New Rochelle, N. Y. Rail-anchor. No. 1,345,428; July 6; v. 276; p. 30.
Wolhaupter, Benjamin, New Rochelle, N. Y. Adjustable rail-anchor. No. 1,353,204; Sept. 21; v. 278; p. 386.
Wolhaupter, Benjamin, New Rochelle, N. Y. Welded rail-anchor. No. 1,359,854; Nov. 23; v. 280; p. 669.
Wollaston, Thomas R., Manchester, England. Gas-generator. No. 1,327,893; Jan. 13; v. 270; p. 250.
Wolle, Leonora, Rockdale, Tex. Tatting-shuttle. No. 1,345,303; June 29; v. 275; p. 968.
Wollenhaupt, Justus J. (See Doyle, W. J., and Wollenhaupt.)
Woller, Oliver C. R., Chicago, Ill. Window-cleaner. No. 1,363,490; Dec. 28; v. 281; p. 633.
Wolny, Joseph, Carneyville, Wyo. Beet-machine. No. 1,339,874; May 11; v. 274; p. 305.
Wolter, Benedict, and A. C. Brown, Rock Island, Ill. Track-lubricator. No. 1,334,065; Mar. 16; v. 272; p. 470.
Wolter, Ferdinand R., Minneapolis, Minn. Mop-wringer. No. 1,360,485; Nov. 30; v. 280; p. 862.
Wolters, Benjamin W., Holland, Mich. Dough-raiser. No. 1,333,525; Mar. 9; v. 272; p. 307.
Wolters, Carl F. (See Dick, R. H., and Wolters.)
Wolters, Carl F. (See Dick, R. H., Wolters, and Sutter.)
Wolters, Leon A., assignor to The Thoro Corporation, Chicago, Ill. Operating mechanism for dispensing devices. No. 1,334,728; Mar. 23; v. 272; p. 640.
Wolters, Leon A., assignor to The Thoro Corporation, Chicago, Ill. Means for attaching direction-sheets to cans. No. 1,343,953; June 22; v. 275; p. 641.
Woltmann, Emil C. A. (See Eisenhauer, E. W., Flormann, and Waltmann.)
Woltz, Albert M., assignor to S. Himmel, Baltimore, Md. Door-equalizer. No. 1,348,680; Aug. 3; v. 277; p. 107.
Wolvekamp, Marl E., assignor to The Abbott Laboratories, Chicago, Ill. Phenylcinchonic-acid salt. No. 1,361,128; Dec. 7; v. 281; p. 29.
Wolverine Truck-Trailer Co. (See De Mattia, Constant, assignor.)
Wone, Tom, Montreal, Quebec, Canada. Stove-cabinet. No. 1,353,121; Sept. 14; v. 278; p. 309.
Wonser, Jerry H., Eureka, Wash. Sand-box. No. 1,349,704; Aug. 17; v. 277; p. 432.
Woock, Herbert J. and W. R., assignors to Superior Manufacturing Company, Lodi, Calif. Deep-well pump. No. 1,340,472; May 18; v. 274; p. 475.
Woock, Herbert J. and W. R., assignors to Superior Manufacturing Company, Lodi, Calif. Elbow check-valve. No. 1,341,870; June 1; v. 275; p. 51.
Woock, Walter R. (See Woock, Herbert J. and W. R.)
Wood, A. J., Grand Rapids, Mich. Grease-gun attachment. No. 1,337,629; Apr. 20; v. 273; p. 499.
Wood, A. J., Greenville, assignor to Bennett Injector Company, Muskegon, Mich. Grease container and dispenser for heavy greases. No. 1,349,994; Aug. 17; v. 277; p. 488.
Wood, Alan D. (See Lewis, H. A., and Wood.)
Wood, Albert B., New Orleans, La. Screw-pump. No. 1,345,655; July 6; v. 276; p. 63.
Wood, Albert B., New Orleans, La., assignor of one-third to C. A. Brown, Lorain, Ohio, and one-third to G. G. Earl, New Orleans, La. Fluid-measuring device. No. 1,339,909; May 11; v. 274; p. 311.
Wood, Albert B., New Orleans, La., assignor of one-third to C. A. Brown, Lorain, Ohio, and one-third to G. G. Earl, New Orleans, La. Fluid-measuring device. No. 1,339,997; May 11; v. 274; p. 328.
Wood, Alfred B., Chicago, Ill. Anti-freeze device for fluid-pressure systems. No. 1,336,984; Apr. 13; v. 273; p. 303.
Wood, Arch K., assignor to McKee Glass Company, Jeannette, Pa. Liquid-dispenser. No. 1,341,095; May 25; v. 274; p. 665.
Wood, Charles F., Chicago, Ill. Shelf-bracket. No. 1,354,270; Sept. 28; v. 278; p. 644.
Wood, Edward, and L. Ingraham, Indian River, Mich. Nail. No. 1,360,344; Nov. 30; v. 280; p. 834.
Wood, Edward C., Somerville, Mass., assignor to Submarine Signal Company, Portland, Me. Receiver-mounting for submarine-signals. No. 1,336,497; Apr. 13; v. 273; p. 209.
Wood, Frank, Mount Comfort, Ind. Aeroplane-motor. No. 1,329,033; Jan. 27; v. 270; p. 531.
Wood, Frank J., Brooklyn, assignor to Worcester Salt Company, New York, N. Y. Purifying salt. No. 1,346,624; July 13; v. 276; p. 317.
Wood, Frank M., Chicago, Ill. Preparation of liquid cultures of nitrifying bacteria. No. 1,341,030; May 25; v. 274; p. 652.
Wood, Frank W., Montclair, N. J., assignor to C. Cory & Son, Incorporated, New York, N. Y. Electric bell. No. 1,331,134; Feb. 17; v. 271; p. 435.
Wood, Frank W., Indianapolis, Ind., assignor to The Danville Brick Company, Danville, Ill. Paving-brick and making same. No. 1,350,764; Aug. 24; v. 277; p. 684.
Wood, Franklin P., Trinidad, Colo. Register. No. 1,360,851; Nov. 30; v. 280; p. 934.
Wood, Frederick, assignor to The Electric and Ordnance Accessories Company Limited, Birmingham, England. Engine-starter. No. 1,331,405; Feb. 17; v. 271; p. 485.
Wood, Frederick P., Oak Park, Ill., assignor to American Can Company, New York, N. Y. Paper container. No. 1,333,746; Mar. 16; v. 272; p. 410.
Wood, Frederick P., Oak Park, Ill., assignor to American Can Company, New York, N. Y. Cracker-can. No. 1,337,630; Apr. 20; v. 273; p. 499.
Wood, Frederick W., Baltimore, Md. Treating ores. No. 1,334,981; Mar. 30; v. 272; p. 749.
Wood, George C. (See Kirkendall, W. R., and Wood.)
Wood, Guilford S., Chicago, Ill. Truck. No. 1,345,469; July 6; v. 276; p. 28.
Wood, Guilford S., Chicago, Ill. Removable truck-nose. No. 1,345,470; July 6; v. 276; p. 28.
Wood, Harold B., assignor to Gifford-Wood Company, Hudson, N. Y. Ice-conveyer. No. 1,341,697; June 1; v. 275; p. 16.
Wood, Henry A. W., assignor, by mesne assignments, to Wood Newspaper Machinery Corporation, New York, N. Y. Printing-press. No. 1,327,580; Jan. 6; v. 270; p. 131.
Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Casting and finishing apparatus for curved stereotype-printing plates. No. 1,332,531; Mar. 2; v. 272; p. 69.
Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Casting, finishing, and cooling apparatus for curved stereotype-printing plates. No. 1,332,532; Mar. 2; v. 272; p. 69.
Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Adjustable bearer for printing-couples. No. 1,338,347; Apr. 27; v. 273; p. 705.
Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Safety device for printing-presses. No. 1,340,355; May 18; v. 274; p. 453.
Wood, Henry A. W., by mesne assignments, to Wood Newspaper Machinery Corporation, New York, N. Y. Machine for casting, finishing, and cooling stereotype printing-plates. No. 1,341,608; May 25; v. 274; p. 763.
Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Progressive-velocity ink distribution. No. 1,354,639; Oct. 5; v. 279; p. 39.
Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Method of delivering sheets and apparatus therefor. No. 1,363,031; Dec. 21; v. 281; p. 504.
Wood, Henry A. W., New York, N. Y., and A. E. Fay, Worcester, Mass., assignors to Wood Newspaper Machinery Corporation, New York, N. Y. Apparatus for delivering folded sheets. No. 1,363,030; Dec. 21; v 281; p. 504.
Wood, Hubert K., Bayside, assignor to Electric Flasher Company, New York, N. Y. Low-potential electrical system and method of charging same. No. 1,361,432; Dec. 7; v. 281; p. 91.
Wood, James A. (See Harwick, Stanley R., assignor.)
Wood, James J., Fort Wayne, Ind., assignor to N. C. Hurley, Chicago, Ill. Clothes-wringer. No. 1,327,690; Jan. 13; v. 270; p. 213.
Wood, James J., Fort Wayne, Ind., assignor to General Electric Company. Electric switch. No. 1,360,852; Nov. 30; v. 280; p. 934.

Digitized by Google

Wood, James R., Indianapolis, Ind. Tire. No. 1,354,449; Sept. 28; v. 278; p. 679.
Wood, Joseph S., Cleveland, Ohio. Hatch-cover. No. 1,342,612; June 8; v. 275; p. 248.
Wood, Leander W., Fontanelle, Iowa. Tire. No. 1,348,614; Aug. 3; v. 277; p. 94.
Wood, Lloyd E., assignor to Kenosha Wheel & Axle Company, Kenosha, Wis. Metal vehicle-wheel. No. 1,357,266; Nov. 2; v. 280; p. 13.
Wood, Lorena M., Spokane, Wash. Electrolier. No. 1,344,251; June 22; v. 275; p. 698.
Wood, Louis E., Farrell, Pa. Electric-light socket. No. 1,342,658; June 8; v. 275; p. 256.
Wood, Louis E., Farrell, Pa. Spring-leaf spreader and lubricator. No. 1,351,272; Aug. 31; v. 277; p. 845.
Wood, Louis E., Farrell, Pa. Soap-container. No. 1,351,273; Aug. 31; v. 277; p. 845.
Wood, Louis E., Farrell, Pa. Curtain-stretcher. No. 1,351,274; Aug. 31; v. 277; p. 845.
Wood Machinery Corporation. (See Wood, Henry A. W., assignor.)
Wood, Martin R., Huntington, W. Va. Power-drill. No. 1,329,689; Feb. 3; v. 271; p. 64.
Wood-Milne Limited. (See Sumner, John, assignor.)
Wood, Milton E., South Amboy, N. J. Motorcycle-seat. No. 1,353,108; Sept. 14; v. 278; p. 307.
Wood, Montraville M., Berwyn, Ill. String message-holder for wireless or other telegraph mechanism. No. 1,346,476; July 13; v. 276; p. 288.
Wood, Nathan & Virkus Company. (See Virkus, Frederick A., assignor.)
Wood Newspaper Machinery Corporation. (See Nordfors, Conrad, assignor.)
Wood Newspaper Machinery Corporation. (See Wood, Henry A. W., assignor.)
Wood Newspaper Machinery Corporation. (See Wood, H. A. W., and Fay, assignors.)
Wood, Orlo L., Lansing, Mich. Gage. No. 1,351,600; Aug. 31; v. 277; p. 911.
Wood, Robert H. (See Minor, F. W., and Wood.)
Wood, Robert N., Dallas, Tex. Ignition device. No. 1,342,837; June 8; v. 275; p. 293.
Wood, Robert W., Baltimore, Md. Flash-telescope. No. 1,346,520; July 13; v. 276; p. 309.
Wood & Safford Machine Works. (See Wood, Thomas E., assignor.)
Wood-Smith, George F., assignor, by mesne assignments, to Standard Tank Car Company, St. Louis, Mo. Outlet-valve mechanism for tank-cars. No. 1,339,083; May 4; v. 274; p. 81.
Wood, T. W., & Sons. (See Clark, William F., assignor.)
Wood, Thomas E., assignor to Wood & Safford Machine Works, Great Falls, Mont. Apparatus for molding green-sand piston-cores. No. 1,331,736; Feb. 24; v. 271; p. 568.
Wood Tire Silo Company. (See Boldt, Herman E., assignor.)
Wood, Walter. (See Maxfield, D. E., and Green, assignors.)
Wood, Walter, Bay City, Oreg. Attachment for shoes. No. 1,350,197; Aug. 17; v. 277; p. 527.
Wood, Walter D., Allentown, Pa. Fine-fuel burner. No. No. 1,361,129; Dec. 7; v. 281; p. 30.
Wood, William E., Wilmette, Ill. Core-making apparatus. No. 1,355,204; Oct. 12; v. 279; p. 202.
Wood, William G., Berkeley, assignor to Berkeley Light Corporation, San Francisco, Calif. Headlight. No. 1,363,073; Dec. 21; v. 281; p. 512.
Wood, William G., and W. A. Meyer, Sacramento, Calif., assignor to Berkeley Light Corporation. Headlight. No. 1,330,419; Feb. 10; v. 271; p. 232.
Wood, William O., Riverside, R. I. Device for conserving fuel. No. 1,349,482; Aug. 10; v. 277; p. 315.
Wood, William P., assignor to Jenckes Spinning Company, Pawtucket, R. I. Winding-machine. No. 1,334,427; Mar. 23; v. 272; p. 584.
Wood, William P., assignor to Jenckes Spinning Company, Pawtucket, R. I. Winding-machine. No. 1,352,930; Sept. 14; v. 278; p. 273.
Wood, William T., Nashville, Tenn. Vapor-burner. No. 1,331,135; Feb. 17; v. 271; p. 435.
Wood, William W., Tacoma, Wash. Barrel. No. 1,336,011; Apr. 6; v. 273; p. 58.
Wood, Winfield C., Minneapolis, Minn. Tire-patch. No. 1,348,466; Aug. 3; v. 277; p. 66.
Woodall, Frank. (See Basch, E. P., and Woodall.)
Woodard, John H., Spokane, Wash. Air-drying apparatus. No. 1,341,405; May 25; v. 274; p. 725.
Woodard, William E., Lima, Ohio. Locomotive. No. 1,341,961; June 1; v. 275; p. 68.
Woodbridge, Richard G., Jr., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Coated nitrocellulose powder and making same. No. 1,354,640; Oct. 5; v. 279; p. 39.
Woodbridge, Richard G., Jr., K. K. V. Casey, and C. I. B. Henning, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Progressively-burning powder and making same. No. 1,354,442; Sept. 28; v. 278; p. 678.
Woodbury, Clifford A., Middletown township, Delaware county, Pa., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Shell-filling apparatus. No. 1,329,565; Feb. 3; v. 271; p. 42.
Woodbury, Clifford A., Middletown township, Delaware county, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Method of charging containers with high explosives. No. 1,329,566; Feb. 3; v. 271; p. 42.
Woodbury, Leonard P., Berkeley, Calif., assignor to Parker Collapsible Rim Corporation, Chicago, Ill. Demountable rim. No. 1,341,000; May 25; v. 274; p. 646.
Woodbury, Stephen E., Beverly, assignor to Simplex Electric Heating Company, Cambridge, Mass. Electric-circuit-controlling device. No. 1,331,038; Feb. 17; v. 271; p. 418.
Woodcock, Frank L., Everett, Wash. Insertible saw-tooth. No. 1,356,682; Oct. 26; v. 279; p. 579.
Woodcock, Willard J., Brooklyn, N. Y. Adjustable distributer for internal-combustion engines. No. 1,349,308; Aug. 10; v. 277; p. 282.
Woodcock, Willard J., Brooklyn, N. Y. Electric heater for semi-Diesel engines. No. 1,356,582; Oct. 26; v. 279; p. 559.
Woodham, Reuben G., St. Paul, Minn. Shoe-corset. No. 1,358,488; Nov. 9; v. 280; p. 312.
Woodhouse, Albert E., Westminster, London, England. Clutch. No. 1,338,891; May 4; v. 274; p. 44.
Woodhouse, George, Butte, Mont. Card-index. No. 1,327,848; Jan. 13; v. 270; p. 242.
Woodhouse, George, Butte, Mont. Pen or pencil clip. No. 1,346,393; July 13; v. 276; p. 271.
Woodhull, Charles F., Poplar, Wis. Agitating device. No. 1,358,045; Nov. 9; v. 280; p. 223.
Woodhull, Sereno W., Newport, R. I. Optical cabinet. No. 1,353,372; Sept. 21; v. 278; p. 419.
Woodin, Charles K., G. E. Karl, and J. F. Kolczynski, assignors to The Dunham Company, Berea, Ohio. Apparatus for forming cast-metal wheels. No. 1,358,911; Nov. 16; v. 280; p. 441.
Woodin, William H. (See Gibbs, Frederick H., assignor.)
Woodington, John C., assignor to U. S. Slicing Machine Company, Laporte, Ind. Slicing-machine. No. 1,330,292; Feb. 10; v. 271; p. 208.
Woodjard, Guy L. (See Brown, William H., assignor.)
Woodjard, Guy L., San Diego, Calif. Spring-oiler. No. 1,331,136; Feb. 17; v. 271; p. 436.
Woodjard, Guy L., San Diego, Calif. Spring-oiler. No. 1,339,538; May 11; v. 274; p. 241.
Woodland, Cecil R. and R., Liverpool, England. Apparatus for teaching codes as used in telegraphy. No. 1,343,754; June 15; v. 275; p. 537.
Woodland, Reginald. (See Woodland, Cecil R. and R.)
Woodley, Oscar I., *et al.* (See Holmes, Anderson M., assignor.)
Woodman, George A. (See Carscadin, C. A., and Woodman.)
Woodman, Richard N., Chicago, Ill., assignor to Dick Safety Corporation. Table-bed. No. 1,337,497; Apr. 20; v. 273; p. 474.
Woodmancy, John C. (See Hunsaker, A. O., and Woodmancy.)
Woodrow, Oliver B., Newton, Iowa. Wringer-control mechanism. No. 1,350,692; Aug. 24; v. 277; p. 670.
Woodruff, Albert N., New York, N. Y. Copy-holder. No. 1,345,978; July 6; v. 276; p. 129.
Woodruff, George N., Hugo, Okla., assignor of one-half to T. D. Bruce, Paris, Tex. Linting-machine. No. 1,349,179; Aug. 10; v. 277; p. 256.
Woodruff, Glenn J., Machias, N. Y. Garden-sprinkler. No. 1,334,341; Mar. 23; v. 272; p. 568.
Woodruff, Samuel A., Seattle, Wash. Hose-guard. No. 1,354,934; Oct. 5; v. 279; p. 97.
Woodruff, William D., Belton, Tex. Crate. No. 1,347,923; July 27; v. 276; p. 690.
Woods, Alexander. (See Todhunter, R. T., Duke, and Woods.)
Woods, Alexander E. (See Alexander, G., and Rafferty, assignors.)
Woods, Charles S., Indianapolis, Ind. Wall-cleaning machine. No. 1,342,488; June 8; v. 275; p. 224.
Woods, Dana A. (See Duncan, Zeona Z., assignor.)
Woods, Edgar M., Gladewater, Tex. Sweet-potato-curing house. No. 1,327,130; Jan. 6; v. 270; p. 47.
Woods, Frank F., Wichita, Kans. Operating device for valve-grinders. No. 1,331,307; Feb. 17; v. 271; p. 466.
Woods, George H., Somerville, Mass. Holder for glasses and like liquid-receptacles. No. 1,334,342; Mar. 23; v. 272; p. 568.
Woods, James A., Wichita, Kans. Handhole-plate. No. 1,336,012; Apr. 6; v. 273; p. 58.
Woods, John D., Steubenville, Ohio. Fishing-gig. No. 1,334,206; Mar. 16; v. 272; p. 495.
Woods, Joseph M., assignor to D. O'Leary, Chicago, Ill. Resilient wheel. No. 1,336,060; Apr. 6; v. 273; p. 67.
Woods, Joseph P., Washington, D. C. Means employed in the classification of names, &c. No. 1,343,755; June 15; v. 275; p. 537.
Woods, Leonard, St. Louis, Mo. Trousers-supporter. No. 1,330,968; Feb. 17; v. 271; p. 405.

Digitized by Google

Woods, Reginald F., *et al.* (See Vaile, Pembroke A., assignor.)
Woodson, John B., Fayette, Mo. Wire-fence clamp. No. 1,341,698; June 1; v. 275; p. 17.
Woodstock Typewriter Company. (See Hokanson, Otto A., assignor.)
Woodward, Arthur H., Altadena, Calif., assignor, by mesne assignments, to Johnson Fare Box Company, Chicago, Ill. Coin-register. No. 1,344,840; June 29; v. 275; p. 880.
Woodward, Arthur H., Altadena, Calif., assignor, by mesne assignments, to Johnson Fare Box Company, Chicago, Ill. Station coin-register. No. 1,344,841; June 29; v. 275; p. 880.
Woodward, Arthur H., Altadena, Calif., assignor, by mesne assignments, to Johnson Fare Box Company, Chicago, Ill. Fare collecting and registering means. No. 1,344,842; June 29; v. 275; p. 880.
Woodward, Charles H., Bournemouth, England. Train-signaling and train-control system. No. 1,328,865; Jan. 27; v. 270; p. 500.
Woodward, Charles H., Ocean Springs, Miss., assignor to Refrigerator Car Equipment Co., Chicago, Ill. Device for regulating the temperature in closed vehicles. No. 1,355,205; Oct. 12; v. 279; p. 203.
Woodward & Cochey. (See Delaney, John S., assignor.)
Woodward, Esther A. (See Woodward, Frederick P., assignor.)
Woodward, Frederick P., Topsfield, assignor of one-half to E. A. Woodward, Boston, Mass. Resilient inner tube for vehicle-tires. No. 1,346,290; July 13; v. 276; p. 252.
Woodward, Garrett W., Chicago, Ill., assignor, by mesne assignments, to American Automatic Products Corporation. Self-operating talking-machine. No. 1,349,705; Aug. 17; v. 277; p. 433.
Woodward, Garrett W., assignor, by mesne assignments, to American Automatic Products Corporation, Chicago, Ill. Talking-machine. No. 1,357,536; Nov. 2; v. 280; p. 63.
Woodward, Irving C., Chicago, Ill. Differential-gear-control mechanism. No. 1,355,297; Oct. 12; v. 279; p. 221.
Woodward, John J., assignor of one-half to J. Colesby, Birmingham, England. Spanner. No. 1,348,882; June 15; v. 275; p. 563.
Woodward, Oscar, Babylon, assignor to Remington Typewriter Company, Illon, N. Y. Typewriting-machine. No. 1,342,197; June 1; v. 275; p. 115.
Woodward, Oscar, Babylon, assignor to Remington Typewriter Company, Illon, N. Y. Typewriting-machine. No. 1,342,489; June 8; v. 275; p. 224.
Woodward, Oscar, Babylon, assignor to Remington Typewriter Company, Illon, N. Y. Typewriting-machine. No. 1,342,490; June 8; v. 275; p. 224.
Woodward, Robert C., Williamsport, Pa. Ingot-mold and molding. No. 1,336,459; Apr. 13; v. 273; p. 202.
Woodward, Robert S., Jr., Philadelphia, Pa. Power-transmitting apparatus. No. 1,346,625; July 13; v. 276; p. 318.
Woodward, Walter R., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Regulating system. No. 1,338,718; May 4; v. 274; p. 13.
Woodward, William H., assignor of two-fifths to L. Sweningson and one-fifth to G. M. Potter, Cleveland, Ohio. Rotary internal-combustion engine. No. 1,353,205; Sept. 21; v. 278; p. 886.
Woodward, William J., Leetonia, Ohio. Hot-water boiler. No. 1,328,608; Jan. 20; v. 270; p. 422.
Woodward, William W., Mount Rainier, Md. Wrench. No. 1,336,460; Apr. 13; v. 273; p. 202.
Woodworth, Donald C., Auburn, Me. Antiskid-chain tool. No. 1,338,804; May 4; v. 274; p. 29.
Woodworth, Edward M., Rochester, N. Y. Indicator for cameras. No. 1,356,583; Oct. 26; v. 279; p. 559.
Woodworth, George K., trustee. (See Gile, Fred H., assignor.)
Woodworth, George K., trustee. (See Gile, Richard F., assignor.)
Woodworth, George K., trustee. (See Gile, William A., assignor.)
Woodworth, Harry A. (See Kepler, Darrell S., assignor.)
Woodworth, Olin F. (See Willis and Woodworth.)
Woodworth, Robert B., Pittsburgh, Pa. Tug wheel-rim. No. 1,334,688; Mar. 23; v. 272; p. 632.
Woofter, Herbert A., Swampscott, assignor to Thomson Electric Welding Company, Lynn, Mass. Manufacture of articles of rubber. No. 1,355,206; Oct. 12; v. 279; p. 203.
Wool, Frederick P. (See Fowler, Del Roy F., assignor.)
Woolcott, John H., Harrisburg, Ill. Adjustable variable-speed mechanism. No. 1,329,945; Feb. 3; v. 271; p. 112.
Wooldridge, James L., Decatur, Tex. Mote-board for cotton-gins. (Reissue.) No. 14,874; June 1; v. 275; p. 157.
Wooldridge, John, Temple, Tex. Doffing-brush. No. 1,344,843; June 29; v. 275; p. 880.
Wooldridge, William J., Pittsfield, Mass., assignor to General Electric Company. Annealing magnetic material. No. 1,331,889; Feb. 24; v. 271; p. 598.
Woolf, Ellis J., assignor of one-half to J. F. Woolf, Minneapolis, Minn. Carbureting system for internal-combustion engines. No. 1,330,969; Feb. 17; v. 271; p. 405.
Woolf, Frank A., Wichita, Kan. Wheel-cultivator. No. 1,350,906; Aug. 24; v. 277; p. 710.
Woolf, Jay F. (See Woolf, Ellis J., assignor.)
Woolford, Albert T. (See Propert, T. G., and Brown, assignors.)
Woolhouse, Herbert, deceased; Woolhouse, administrator, Norwood, R. I. Hatpin-point protector. No. 1,349,309; Aug. 10; v. 277; p. 282.
Woolhouse, Walter, administrator. (See Woolhouse, Herbert.)
Woolley, Isaiah W. (See Berryhill, S. A., and Woolley.)
Woolliscroft, John H., Great Crosby, near Liverpool, England. Liquid electric resistance. No. 1,360,069; Nov. 23; v. 280; p. 712.
Woolridge, Moses A., Wyaconda, Mo. Railway grade-crossing. No. 1,354,935; Oct. 5; v. 279; p. 97.
Woolsey, Nicholas I., New York, N. Y. Rail. No. 1,350,198; Aug. 17; v. 277; p. 527.
Woolson, Charles H., Syracuse, N. Y. Oiler for drill-presses. No. 1,337,682; Apr. 20; v. 273; p. 509.
Woolson, Lionel M. (See Wolffsohn, Lionel.)
Woolson, Lionel M., Detroit, Mich., assignor to Bijur Motor Appliance Company. Engine-starting apparatus. No. 1,343,020; June 8; v. 275; p. 329.
Woolverton, John J. (See Swan, William R., assignor.)
Woolwine Metal Products Company. (See Frey, Sigmund, assignor.)
Worbois, Homer L., Detroit, Mich. Clutch. No. 1,361,511; Dec. 7; v. 281; p. 107.
Worcester, Ira D., Pittsburgh, Pa. Light-projecting lantern. No. 1,349,706; Aug. 17; v. 277; p. 433.
Worcester Metal Goods Company. (See Miller, Charles A., assignor.)
Worcester Pressed Steel Company. (See Marchesseault, Joseph R., assignor.)
Worcester Salt Company. (See Wood, Frank J., assignor.)
Word, John B., Latrobe, assignor of one-third to W. A. Reckers and one-third to C. M. Sumner, Placerville, Calif. Nut-lock. No. 1,337,424; Apr. 20; v. 273; p. 460.
Worden, Linas F., assignor to Underwood Typewriter Company, New York, N. Y. Typewriter-escapement. No. 1,341,350; May 25; v. 274; p. 714.
Worden, Stanley B. T., Syracuse, N. Y., assignor to F. R. Henshaw, trustee, Indianapolis, Ind. Pneumatic controller. No. 1,344,328; June 22; v. 275; p. 714.
Wordingham, George, Milwaukee, Wis. Suit-hanger. No. 1,332,533; Mar. 2; v. 272; p. 69.
Workinger, Earl H., *et al.* (See Hall, Stewart E., assignor.)
Workman, Harold, Glasgow, Scotland. Motion-picture apparatus and motion-picture film therefor. No. 1,328,352; Jan. 20; v. 270; p. 374.
Workman, Harry D., and W. S. Smith, Tishomingo, Okla. Manifold-heater. No. 1,358,912; Nov. 16; v. 280; p. 441.
Workman, James C., Lakewood, assignor to The American Ship Building Company, Cleveland, Ohio. Removable covering for boilers. No. 1,363,173; Dec. 21; v. 281; p. 531.
Workman, James M., Greenville, S. C. Closure-operator. No. 1,356,803; Oct. 26; v. 279; p. 602.
Workman, James M., and F. W. Graham, Greenville, S. C. Window-sash opener. No. 1,356,802; Oct. 26; v. 279; p. 602.
Workman, John H., Newcastle, Pa. Grease-retainer. No. 1,359,139; Nov. 16; v. 280; p. 483.
Workman, Myrtle, assignor of one-half to R. F. Workman, York, Pa. Shoestring-fastener. No. 1,331,308; Feb. 17; v. 271; p. 466.
Workman, Ross F. (See Workman, Myrtle, assignor.)
Workman, William H., Rochester, N. Y., assignor to General Railway Signal Company, Gates, N. Y. Automatic block-signaling system for railways. No. 1,360,345; Nov. 30; v. 280; p. 834.
World Gas Engine Company, The. (See Shepard, Wilbur L., assignor.)
Worley, George I., and C. E. Logan, assignors to The Good Roads Co., Kansas City, Mo. Oil-tank heater. No. 1,361,212; Dec. 7; v. 281; p. 46.
Worm, Clarence A. (See Rieflin, George H., assignor.)
Worman, Oscar E., Minneapolis, Minn. Artificial limb. No. 1,343,297; June 15; v. 275; p. 446.
Worman, Oscar E., Minneapolis, Minn. Artificial limb. No. 1,343,298; June 15; v. 275; p. 446.
Wornstaff, Richard A., Weldon, Iowa. Combination motor-vehicles. No. 1,346,778; July 13; v. 276; p. 349.
Worobel, William, Lansing, Mich. Screen. No. 1,351,275; Aug. 31; v. 277; p. 846.
Worrall, George H., Kirkwood, Mo., assignor to United Lead Company, New York, N. Y. Bearing. No. 1,339,084; May 4; v. 274; p. 81.
Worrall, George H., Kirkwood, Mo., assignor to United Lead Company, New York, N. Y. Lead-base alloy. No. 1,360,346; Nov. 30; v. 280; p. 834.
Worrall, George H., Kirkwood, Mo., assignor to United Lead Company, New York, N. Y. Lead alloy. No. 1,360,347; Nov. 30; v. 280; p. 834.
Worrall, George H., Kirkwood, Mo., assignor to United Lead Company, New York, N. Y. Hard lead alloy. No. 1,360,348; Nov. 30; v. 280; p. 835.
Worrell, Robert H., Statesburg, W. Va. Metal tie and rail-fastener. No. 1,341,609; May 25; v. 274; p. 764.

Digitized by Google

Alphabetical list of patentees—Continued.

Worrick, Elmer O., Daet, Philippine Islands. Fiber-cleaning machine. No. 1,335,264; Mar. 30; v. 272; p. 801.
Worster, Arthur E., Vancouver, British Columbia, Canada. Apparatus for sealing preserving-jars. No. 1,346,434; July 13; v. 276; p. 280.
Worster, Arthur E., Vancouver, British Columbia, Canada. Preserving-jar. No. 1,346,435; July 13; v. 276; p. 280.
Worth, Barsillai G. (See Freygang, W. H., Kidde, and Worth.)
Worth, Thomas Bond, & Sons Limited. (See Davis, Arthur, assignor.)
Worthen, Burt L., assignor to L. P. Lowe, trustee, San Francisco, Calif. Mechanical gun. No. 1,331,460; Feb. 17; v. 271; p. 493.
Worthen, Burt L., deceased, Tucson, Ariz.; V. K. Worthen, executrix, Oakland, Calif.; said B. L. Worthen assignor of one-half to B. Cameron, New York, N. Y. Apparatus for burning oil. (Reissue.) No. 14,800; Feb. 3; v. 271; p. 181.
Worthen, Charles H., Beaver, Pa., assignor of one-half to E. E. Worthen, Wellsburg, W. Va. Refrigerating apparatus. No. 1,332,708; Mar. 2; v. 272; p. 101.
Worthen, E. E. (See Worthen, Charles H., assignor.)
Worthen, Virginia K., executrix. (See Worthen, Burt L.) (Reissue.)
Worthington Ball Company. (See Worthington, G. C., and Reichard, assignors.)
Worthington, Bayard G., Medford, Oreg. Can-opener. No. 1,364,016; Dec. 28; v. 281; p. 785.
Worthington, Charles C., Dunnfield, N. J., assignor to Shawnee Company, New York, N. Y. Motor gang lawn-mower. No. 1,330,293; Feb. 10; v. 271; p. 208.
Worthington, Charles C., Dunfield, N. J., assignor to Shawnee Mower Company, New York, N. Y. Lawn-mower. No. 1,347,569; July 27; v. 276; p. 620.
Worthington, George C., and W. E. Reichard, assignors to Worthington Ball Company, Elyria, Ohio. Golf-ball. No. 1,351,145; Aug. 31; v. 277; p. 819.
Worthington, Henry R. (See Berrigan, John J., assignor.)
Worthington, J. V., and A. W. T. Hyde, assignors to The Dunlop Rubber Company, Limited, Regents Park, London, England. Treatment of raw rubber. No. 1,360,486; Nov. 30; v. 280; p. 861.
Worthington, Lottie H., Pendleton, Oreg. Stove attachment. No. 1,329,490; Feb. 3; v. 271; p. 28.
Worthington Pump and Machinery Corporation. (See Bourne, Phillips P., assignor.)
Worthington Pump and Machinery Corporation. (See Diserens, Paul, assignor.)
Worthington Pump and Machinery Corporation. (See Fleming, Wills M., assignor.)
Worthington Pump and Machinery Corporation. (See Grace, John F., assignor.)
Worthington Pump and Machinery Corporation. (See Hewitt, William B., assignor.)
Worthington Pump and Machinery Corporation. (See McBride, Thomas C., assignor.)
Worthington Pump and Machinery Corporation. (See Meyer, Robert, assignor.)
Worthington, Samuel W., Wilson, N. C. Luggage holder or carrier. No. 1,356,328; Oct. 19; v. 279; p. 463.
Worthington, Thomas E., Kansas City, Mo. Hydrocarbon-fuel burner. No. 1,350,199; Aug. 17; v. 277; p. 528.
Worthington, Warren, New York, N. Y. Scythe. No. 1,338,272; Apr. 27; v. 273; p. 691.
Worthington, Warren, Buffalo, N. Y. Making composite steel plates. No. 1,351,824; Sept. 7; v. 278; p. 22.
Wortman, George C., Denver, Colo. Holder for railway-rail spikes. No. 1,333,235; Mar. 9; v. 272; p. 253.
Wortman, George C., Denver, Colo. Rail-bracing-spike retainer. No. 1,344,109; June 22; v. 275; p. 671.
Worzen, Anton A., Brownsville, Pa. Radiator-stand. No. 1,354,428; Sept. 28; v. 278; p. 675.
Wosiewski, John, Nanticoke, Pa. File-protector. No. 1,349,596; Aug. 17; v. 277; p. 411.
Wotherspoon, George, New York, N. Y. Tie-holding pin. No. 1,333,362; Mar. 9; v. 272; p. 277.
Wotherspoon, James R., Philadelphia, Pa., and F. E. Coatsworth, Lincoln, Nebr. Stove. No. 1,327,796; Jan. 13; v. 270; p. 283.
Wotton, Edward, assignor to Fifth Avenue Coach Company, New York, N. Y. Folding top for vehicles. No. 1,361,950; Dec. 14; v. 281; p. 241.
Wotton, James A., Montclair, N. J., assignor to Western Electric Company, Incorporated. Telephone-receiver. No. 1,337,741; Apr. 20; v. 273; p. 521.
Wotton, James A., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling device. No. 1,360,701; Nov. 30; v. 280; p. 904.
Wotring, Clark O. (See Kvindlog, H., and Wotring.)
Woudema, Andrew, assignor of one-half to D. De Young, Demotte, Ind. Poultry-fumigator. No. 1,335,629; Mar. 30; v. 272; p. 870.
Wray, Albert A., Fredonia, Kans. Computing-table device. No. 1,338,892; May 4; v. 274; p. 45.
Wray, Charles C. (See Caley, E. C., and Wray.)
Wray, Charles S., New York, N. Y. Belt conveyer. No. 1,353,008; Sept. 14; v. 278; p. 288.
Wray, Leonard E., Minneapolis, Minn. Track and truck mechanism. No. 1,335,706; Mar. 30; v. 272; p. 884.
Wray, Leonard E., Minneapolis, Minn. Grain-spout mechanism. No. 1,349,854; Aug. 10; v. 277; p. 291.
Wrenn Adding Machine Company, The. (See Wrenn, Herbert A., assignor.)
Wrenn, Herbert A., assignor to The Wrenn Adding Machine Company, Washington, D. C. Calculator. No. 1,341,962; June 1; v. 275; p. 68.
Wretlof, Frank. (See Morse, Melvin G., assignor.)
Wride, George T., Lethbridge, Alberta, Canada. Attachment for penholders and pencils to assist in the practice of penmanship. No. 1,342,576; June 8; v. 275; p. 242.
Wride, George T., Los Angeles, Calif. Writing-ranger. No. 1,347,729; July 27; v. 276; p. 652.
Wright, Albert. (See Tyzack, W., Wright, and Senior.)
Wright, Bert R., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Process and apparatus for standardizing milk. No. 1,327,004; Jan. 6; v. 270; p. 24.
Wright, Bessie B. (See Wright, William S., assignor.)
Wright, Carr W., Cincinnati, Ohio. System and educational appliance for military self-instruction. No. 1,342,520; June 8; v. 275; p. 230.
Wright, Charles B., assignor to Post Card Vending Machine Company, Chicago, Ill. Vending-machine. No. 1,344,160; June 22; v. 275; p. 681.
Wright, Charles F., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Machine for making boxes. No. 1,348,197; Aug. 3; v. 277; p. 12.
Wright, Charles G., Ambler, Pa. Staple-extractor. No. 1,359,777; Nov. 23; v. 280; p. 654.
Wright, Charles S., Hyde Park, Mass., assignor to Crompton & Knowles Loom Works. Weft-carrier-releasing device. No. 1,337,683; Apr. 20; v. 273; p. 509.
Wright, Charles V., Reynolds, Pa. Shaking-screen. No. 1,344,747; June 29; v. 275; p. 862.
Wright, Charles W., Washington, D. C. Concentrating-table. No. 1,336,327; Apr. 6; v. 273; p. 117.
Wright, Clyde S., assignor to The National Supply Company, Toledo, Ohio. Rotary well-drilling apparatus. No. 1,331,309; Feb. 17; v. 271; p. 467.
Wright, Clyde S., assignor to The National Supply Company, Toledo, Ohio. Casing-head top. No. 1,343,426; June 15; v. 275; p. 471.
Wright, Clyde S., assignor to The National Supply Company, Toledo, Ohio. Rotary drilling-machine. No. 1,347,771; July 27; v. 276; p. 661.
Wright, Clyde S., assignor to The National Supply Company, Toledo, Ohio. Underreamer. No. 1,350,765; Aug. 24; v. 277; p. 765.
Wright, Daniel K., Paterson, N. J., assignor to General Electric Company. Shaped filament. No. 1,339,998; May 11; v. 274; p. 328.
Wright, Daniel M. (See Seaver, H. E., and Bowers, assignors.)
Wright, Euell A., *et al.* (See Stoltz, Otto W., assignor.)
Wright, Francis M., *et al.* (See Nelson, Anton R., assignor.)
Wright, Frank, Blairmore, Alberta, Canada. Security sheath hinge and door fastening. No. 1,340,430; May 18; v. 274; p. 468.
Wright, Fred A., Wilmington, N. C. Framework for reinforcing and shaping concrete structures. No. 1,336,547; Apr. 13; v. 273; p. 219.
Wright, George, Von Ormy, Tex. Chair and counter. No. 1,359,118; Nov. 16; v. 280; p. 479.
Wright, George R. (See Gray, Harry A., assignor.)
Wright, George R., Fort Worth, Tex. Power-jack. No. 1,359,644; Nov. 23; v. 280; p. 627.
Wright, George S. (See Clenny, J. E., and Wright.)
Wright, H., *et al.* (See Hachmann, Frederick, assignor.)
Wright, H. A., *et al.* (See Hachmann, Frederick, assignor.)
Wright, Harry A., Springfield, Mass., assignor to The American Hardware Corporation, New Britain, Conn. Valve-grinder. No. 1,341,001; May 25; v. 274; p. 647.
Wright, Henry W., assignor of one-half to P. A. Briggs, Spokane, Wash. Self-cleaning harrow. No. 1,359,560; Nov. 23; v. 280; p. 612.
Wright, Ida C. (See Wright, Wilfred J., assignor.)
Wright, Ira O., Baltimore, Md. Friction draft-rigging. No. 1,358,489; Nov. 9; v. 280; p. 312.
Wright, Isaac H., assignor to Smith & Coventry Limited, Manchester, England. Machine for forming grooves or flutes in twist-drills and the like. No. 1,346,928; July 20; v. 276; p. 437.
Wright, Isaac H., assignor to Smith and Coventry Limited, Salford, England. Speed-change gear. No. 1,347,024; July 27; v. 276; p. 691.
Wright, James, Liverpool, and J. Wright, Warrington, England. Tanning machinery. No. 1,343,756; June 15; v. 275; p. 537.
Wright, James T., Metuchen, N. J. Antitwisting mechanism. No. 1,333,147; Mar. 9; v. 272; p. 236.
Wright, Jefferson G., Connell, assignor of one-third to W. F. Steinmeier, Eltopia, Wash. Washer. No. 1,344,194; June 22; v. 275; p. 687.
Wright, John. (See Wright, James and J.)
Wright, John B., and F. O. Lawson, assignors to Wright Safety Air-Brake Company, Greensboro, N. C. Safety railway-brake. No. 1,352,861; Sept. 14; v. 278; p. 259.
Wright, John C., Syracuse, N. Y. Guard for metal pails. No. 1,347,357; July 20; v. 276; p. 521.
Wright, John E., New York, N. Y. Tabulating-machine. No. 1,333,890; Mar. 16; v. 272; p. 436.
Wright, John E., New York, N. Y. Card-sorter. No. 1,333,891; Mar. 16; v. 272; p. 436.

Digitized by Google

Wright, John F., Damon, Tex. Pipe-cutter. No. 1,339,641; May 11; v. 274; p. 261.
Wright, John L., Chicago, Ill. Toy cabin construction. No. 1,351,086; Aug. 31; v. 277; p. 808.
Wright, John M., Birmingham, Ala. Float mechanism. No. 1,341,002; May 25; v. 274; p. 647.
Wright, John M., and J. F. Davis, Birmingham, Ala. Flushing-valve. No. 1,331,137; Feb. 17; v. 271; p. 436.
Wright, John P., Newark, Del. Railway-track insulation. No. 1,333,526; Mar. 9; v. 272; p. 307.
Wright, John R., Wheeling, Mo. Adjustable sag-gate. No. 1,341,963; June 1; v. 275; p. 69.
Wright, John W., Pittsburgh, Pa. Jointing-tool. No. 1,354,443; Sept. 28; v. 278; p. 678.
Wright, Joseph H., Henderson, Tex. Bracket. No. 1,342,659; June 8; v. 275; p. 256.,
Wright, Joseph L., Cleveland, Ohio, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,330,226; Feb. 10; v. 271; p. 196.
Wright, Joseph L., Cleveland, Ohio, assignor to Western Electric Company, Inc., New York, N. Y. Telephone-exchange system. No. 1,339,010; May 4; v. 274; p. 66.
Wright, Joseph L., assignor to J. R. Garfield, trustee, Cleveland, Ohio. Telephone-exchange system. No. 1,350,536; Aug. 24; v. 277; p. 640.
Wright, Lester P., Owego, N. Y. Ticket-machine. No. 1,357,372; Nov. 2; v. 280; p. 33.
Wright, Loyd E., *et al.* (See Shields, George F., assignor.)
Wright, Ray, Jackson, Miss. Roof for buildings. No. 1,336,118; Apr. 6; v. 273; p. 79.
Wright, Ray, Jackson, Miss. Roofing. No. 1,354,867; Oct. 5; v. 279; p. 84.
Wright Rebound Snubber Company. (See Hutsell, Thomas A., assignor.)
Wright Roller Bearing Company. (See Miller, Alfred H., assignor.)
Wright, Royal J., assignor to Durabilt Corset Company, Springfield, Mass. Lacing-flap for corsets. No. 1,355,207; Oct. 12; v. 279; p. 203.
Wright, Reuben I., Wickliffe-on-the-Lake, assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio. Motor-control system. (Reissue.) No. 14,861; May 18; v. 274; p. 550.
Wright Safety Air-Brake Company. (See Wright, J. B., and Lawson, assignors.)
Wright, Samson D., Cleveland Heights, Ohio. Recording-scale for railway-cars. No. 1,329,567; Feb. 3; v. 271; p. 42.
Wright, Solomon, Jr., Montclair, N. J., assignor to Wright Underwear Company, Inc., New York, N. Y. Undergarment. No. 1,345,728; July 6; v. 276; p. 79.
Wright, Thomas B., assignor to The Wright Traffic Signal Company, Chicago, Ill. Direction-indicating device. No. 1,342,788; June 8; v. 275; p. 283.
Wright, Thomas H., Los Angeles, Calif. Making potash alum. No. 1,359,011; Nov. 16; v. 280; p. 460.
Wright Traffic Signal Company, The. (See Wright, Thomas B., assignor.)
Wright Underwear Company, Inc. (See Wright, Solomon, Jr., assignor.)
Wright, Walter, New York, N. Y., assignor, by mesne assignments, to Underwood Computing Machine Company. Combined typewriting and computing machine. No. 1,349,246; Aug. 10; v. 277; p. 269.
Wright, Walter, New York, N. Y., assignor, by mesne assignments, to Underwood Computing Machine Company. Combined typewriting and computing machine. No. 1,349,247; Aug. 10; v. 277; p. 270.
Wright, Walter D., Stuart, Okla. Stump-puller. No. 1,335,630; Mar. 30; v. 272; p. 870.
Wright, Walter S., Lompoc, Calif. Dental mandrel for holding stones and sandpaper disks. No. 1,352,395; Sept. 7; v. 278; p. 130.
Wright, Wilfred J., assignor to I. C. Wright, Summit, N. J. Fountain-brush. No. 1,348,681; Aug. 3; v. 277; p. 107.
Wright, William L., Cambridge, Mass. Steam and oil separator. No. 1,360,349; Nov. 30; v. 280; p. 835.
Wright, William S., Newark, Ohio, assignor to B. B. Wright, Annapolis, Md. Railway-car seat. No. 1,335,950; Apr. 6; v. 273; p. 46.
Wright, Wilson M., C. Teeples, and J. J. Lamb, Jefferson, Iowa. Repairing radiators. No. 1,342,703; June 8; v. 275; p. 266.
Wright, Wilson M., C. Teeples, and J. J. Lamb, assignors to New Way Machine Company, Jefferson, Iowa. Means for repairing radiators and the like. No. 1,353,009; Sept. 14; v. 278; p. 288.
Wright, Winthrop R. (See Martel, F. J., Briggs, Macaulay, Wright, and Wenner.)
Wrigley, Henry L., Chicago, Ill., assignor to Universal Draft Gear Attachment Co. Draft-rigging for railway-cars. No. 1,327,074; Jan. 6; v. 270; p. 37.
Wrigley, Herbert, and H. Spence, assignors to Peter Spence & Sons Limited, Manchester, Lancaster, England. Preparation of titanium compounds. No. 1,338,473; Apr. 27; v. 273; p. 728.
Wrigley, John, Everett, assignor of one-half to W. Walton, Boston, Mass. Convertible window-sash. No. 1,331,887; Feb. 24; v. 271; p. 588.
Wrigley, William, Jr., Company. (See Watkins, Parke H., assignor.)
Wrinkle, Noah, and W. A. Kuhnert, San Francisco, Calif. Separately obtaining potassium chlorid and borax from certain waters. No. 1,350,089; Aug. 17; v. 277; p. 506.
Wrinkle, Noah, and W. A. Kuhnert, San Francisco, Calif. Separating borax from potassium chlorid. No. 1,350,090; Aug. 17; v. 277; p. 506.
Wróblewski, Czesław, Glenlyon, Pa. Lock. No. 1,338,605; Apr. 27; v. 273; p. 752.
Wroclawski, Valenty, Chicago, Ill. Freight-car. No. 1,327,894; Jan. 13; v. 270; p. 251.
Wrona, Fred J., Hamtramck, Mich. Curtain-pole and shade-roller holder. No. 1,336,936; Apr. 13; v. 273; p. 294.
Wronowski, Piotr, Youngstown, Ohio. Mechanical toy. No. 1,348,386; Aug. 3; v. 277; p. 51.
Wucherer, Rudolph, and F. Pollitzer, Munich, Germany, assignors, by mesne assignments, to The Linde Air Products Company, New York, N. Y. Apparatus and method for separating the constituents of air or other gaseous mixtures. No. 1,360,853; Nov. 30; v. 280; p. 934.
Wuepper, John. (See Erbel, A., and Wuepper.)
Wuerth, Fred W., Cincinnati, Ohio. Fan. No. 1,328,353; Jan. 20; v. 270; p. 374.
Wuesthoff, Frederick J., San Francisco, Calif., assignor to American Mailing Device Corporation of New York. Mail-chute. (Reissue.) No. 14,854; May 4; v. 274; p. 135.
Wuesthoff, Frederick J., San Francisco, Calif., assignor to American Mailing Device Corporation of New York. Mail-chute. (Reissue.) No. 14,855; May 4; v. 274; p. 136.
Wuesthoff, Maximilian W., San Francisco, Calif., assignor to Glauber Brass Manufacturing Company, Cleveland, Ohio. Drinking-fountain bowl. No. 1,338,474; Apr. 27; v. 273; p. 728.
Wulf, Charles A., Indianapolis, Ind. Flushing system. No. 1,346,362; July 13; v. 276; p. 266.
Wulff, Henry, assignor to S. M. Ford, St. Paul, Minn. Machine and making fiber shingles. No. 1,356,500; Oct. 19; v. 279; p. 495.
Wullenweber, Ernest A., Detroit, Mich., assignor to Morgan & Wright. Method and apparatus for treating rubber. No. 1,337,536; Apr. 20; v. 273; p. 482.
Wullstein, Herman F., Salt Lake City, Utah. Screen. No. 1,334,579; Mar. 23; v. 272; p. 612.
Wunderlich, Adolph, Cleveland, Ohio, assignor to E. L. Cannon, Cleveland Heights, Ohio. Device for measuring and registering fluids. No. 1,331,552; Feb. 24; v. 271; p. 533.
Wundrack, Otto, Maywood, Ill. Flat arch for furnaces. No. 1,339,615; May 11; v. 274; p. 256.
Wundrack, Otto, assignor to Petersen Owen Company, Chicago, Ill. Multiple baker's oven. No. 1,339,616; May 11; v. 274; p. 256.
Wupper, Cecilia. (See Best, William N., assignor.)
Wurlitzer, Rudolph, Manufacturing Company, The. (See Madsen, Francis M., assignor.)
Wurts, Edward V., Newark, N. J., assignor to Steel Utilities, Incorporated. Distance-determining mechanism for metal-working machines. No. 1,349,996; Aug. 17; v. 277; p. 488.
Wurts, Edward V., Newark, and B. S. Pero, Jersey City, N. J., assignors to Steel Utilities, Incorporated. Controlling system for metal-working machines. No. 1,349,995; Aug. 17; v. 277; p. 488.
Wurts, Thomas C., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,347,885; July 27; v. 276; p. 683.
Wurts, Thomas C., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical system. No. 1,363,633; Dec. 28; v. 281; p. 660.
Wyatt, De Witt H., assignor to The Wyatt Engineering Company, Columbus, Ohio. Apparatus for forming pipe-joints. No. 1,352,571; Sept. 14; v. 278; p. 201.
Wyatt Engineering Company, The. (See Wyatt, De Witt H., assignor.)
Wyatt, Everett, assignor to United States Convertible Car Co., Fort Worth, Tex. Convertible stock and freight car. No. 1,338,805; May 4; v. 274; p. 29.
Wyatt, Thomas J. (See Stokes, S. I., and Wyatt.)
Wybert, Ernst. (See Hartmann, M., and Wybert.)
Wyckoff, J. Lewis, *et al.*, trustees. (See Hennessy, D. E., and McGeorge, assignors.)
Wygodsky, Henry, New York, N. Y. Saline-operated electric circuits and electroresponsive apparatus. No. 1,327,262; Jan. 6; v. 270; p. 74.
Wyler, Max, assignor to Levinstein Limited, Manchester, Lancaster, England. Sulfur dyestuff. No. 1,358,490; Nov. 9; v. 280; p. 312.
Wylie, Arthur E., Axtell, assignor of one-half to J. G. Davis, Limestone county, Tex. Stalk-cutter attachment. No. 1,329,154; Jan. 27; v. 270; p. 554.
Wyman, Charles W., Claremont, N. H., assignor to Sullivan Machinery Company. Lubricating device. No. 1,348,769; Aug. 3; v. 277; p. 123.
Wyman, Laurence W., assignor to California Corrugated Culvert Company, Oakland, Calif. Watering-trough. No. 1,330,995; Feb. 17; v. 271; p. 410.
Wynne, Edward W., Liverpool, England. Treatment of petroleum and like oils. No. 1,351,458; Aug. 31; v. 277; p. 882.

Digitized by Google

Alphabetical list of patentees—Continued.

Wynne, James H. (See Wynne, William P. and J. H.)
Wynne, William P. and J. H., Fort Worth, Tex. Hydrocarbon-burner. No. 1,330,294; Feb. 10; v. 271; p. 208.
Wyomissing Glazed Paper Company. (See Hallman, Charles M., assignor.)
Wyrick, Clarence E., Peabody, Kans. Ladder. No. 1,360,854; Nov. 30; v. 280; p. 934.
Wysong, Fannie I., executrix. (See Wysong, Olmedo C.)
Wysong, Olmedo C., deceased, Greensboro, N. C.; F. I. Wysong, executrix. Bed-rail. No. 1,333,008; Mar. 9; v. 272; p. 211.
Wyzenbeek, Andrew, Chicago, and E. J. Cady, Oak Park, Ill.; said Wyzenbeek assignor to said Cady. Micrometer-caliper. No. 1,354,010; Sept. 28; v. 278; p. 590.
Xardell, Charles A., Utica, N. Y. Dust-separator. No. 1,328,642; Jan. 20; v. 270; p. 429.
Xardell, Charles A., Utica, N. Y. Primary battery. No. 1,338,412; Apr. 27; v. 273; p. 717.
Xardell, Charles A., Utica, N. Y. Electric heater. No. 1,350,586; Aug. 24; v. 277; p. 651.
Xardell, Charles A., Utica, N. Y. Electric heater. No. 1,350,631; Aug. 24; v. 277; p. 659.
Xardell, Charles A., Utica, N. Y. Tank. No. 1,341,965; June 1; v. 275; p. 60.
Xardell, Charles A., Utica, N. Y. Heater. No. 1,353,556; Sept. 21; v. 278; p. 455.
Yackel, Carl, Syracuse, N. Y. Lifting instrument. No. 1,336,461; Apr. 13; v. 273; p. 202.
Yadgir, David, Chicago, Ill. Reversible window. No. 1,351,316; Aug. 31; v. 277; p. 854.
Yaeger, William. (See Kost, S. A., and Yaeger.)
Yahn, Frederick C. M., assignor to Buffalo Foundry & Machine Company, Buffalo, N. Y. Drier. No. 1,353,980; Sept. 28; v. 278; p. 584.
Yahr, I. (See Johnson, Robert, assignor.)
Yai, Sakizo, Tokyo, Japan. Dry battery. No. 1,328,027; Jan. 13; v. 270; p. 276.
Yale & Towne Manufacturing Company, The. (See Crouch, Thomas E., assignor.)
Yale & Towne Manufacturing Company, The. (See Lewis, Roilin C., assignor.)
Yale & Towne Manufacturing Company, The. (See Mikkelsen, Peder, assignor.)
Yale & Towne Manufacturing Company, The. (See Thompson, Frank E., assignor.)
Yaley, Theodore P., Jamestown, N. Y. Apparatus for cracking hydrocarbons. No. 1,329,450; Feb. 3; v. 271; p. 20.
Yamada, Yoshimori, San Francisco, Calif. Photographic-plate holder. No. 1,343,653; June 15; v. 275; p. 516.
Yamamoto, Shikazo, Los Angeles, Calif. Reinforced broom. No. 1,344,784; June 29; v. 275; p. 869.
Yanacopoulos, George, New York, N. Y. Power-generating system. No. 1,342,318; June 1; v. 275; p. 138.
Yanagihara, Kichibei, Sakai, Osaka-Fu, Japan, assignor to Sakai Kako Celluloid Kwaisha, Ltd., Sakai, Japan, Protected toothbrush. No. 1,342,521; June 8; v. 275; p. 230.
Yanai, Teizo, assignor to N. D. K. K. Kaisha, Tokyo, Japan. Method for forming conducting-seals for incandescent-lamp bulbs or the like. No. 1,350,907; Aug. 24; v. 277; p. 710.
Yancey, William F., Portsmouth, Va. Trolley-finder. No. 1,347,239; July 20; v. 276; p. 497.
Yancey, William O., Chicago, Ill. Toy submarine. No. 1,361,561; Dec. 7; v. 281; p. 118.
Yaniglos, John M., Northampton, Pa. Antiskid device. No. 1,360,855; Nov. 30; v. 280; p. 934.
Yanik, John, Coplay, Pa. Ice-creeper. No. 1,349,542; Aug. 10; v. 277; p. 327.
Yanochowski, George A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. No. 1,344,195; June 22; v. 275; p. 687.
Yanochowski, George A., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,347,069; July 20; v. 276; p. 465.
Yanochowski, George A., Chicago, Ill., and H. E. Hershey, Whitewater, Kans., assignors to Automatic Electric Company, Chicago, Ill. Semi-automatic telephone system. No. 1,353,300; Sept. 21; v. 278; p. 404.
Yantorny, Pierre, Paris, France. Lacing device. No. 1,330,615; Feb. 10; v. 271; p. 268.
Yardley, Horace R., assignor to R. Williamson & Co, Chicago, Ill. Lighting-fixture. No. 1,358,131; Nov 9; v. 280; p. 240.
Yardley, John L. M., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,339,910; May 11; v. 274; p. 312.
Yardley, John O., Stockton, Calif. Non-glare lens for headlights. No. 1,352,236; Sept. 7; v. 278; p. 101.
Yardusky, Charles. (See Porter, G. M., and Yardusky.)
Yarnell, John B., and H. Frank, Johnstown, Pa. Baseball-overshoe. No. 1,340,356; May 18; v. 274; p. 453.
Yarnell, John B., assignor of one-half to F. B. Cook, Johnstown, Pa. Railway track and tie. No. 1,356,584; Oct. 26; v. 279; p. 559.
Yarow, Max, Philadelphia, Pa. Electric alarm system. No. 1,335,707; Mar. 30; v. 272; p. 885.
Yarrow, Harold E., Scotstoun, Glasgow, Scotland. Cooling air in submarine and submersible ships. No. 1,327,509; Jan. 6; v. 270; p. 117.
Yarrow, Harold E., Glasgow, Scotland. Propulsion of vessels. No. 1,327,510; Jan. 6; v. 270; p. 118.
Yarrow, Harold E., Glasgow, Scotland. Water-cooled valve for closing the funnels of submarine vessels. No. 1,337,110; Apr. 13; v. 273; p. 327.
Yarrow, Harold E., Glasgow, Scotland. Circulation in water-tube boilers. No. 1,350,200; Aug. 17; v. 277; p. 528.
Yates, Charles E., Detroit, Mich., assignor, by mesne assignments, to The Isko Company, Chicago, Ill. Pipe-coupling. No. 1,345,571; July 6; v. 276; p. 48.
Yates, George, Chicago, Ill. Wheel. No. 1,353,527; Mar. 9; v. 272; p. 307.
Yates, George F. (See Sainsbury, James T., assignor.)
Yates, Hubert, Cheam, England. Anticreep device or anchor for railway-rails. No. 1,353,206; Sept. 21; v. 278; p. 387.
Yates, John W., New York, N. Y. Fireproof window-closing means. No. 1,340,311; May 18; v. 274; p. 444.
Yates, John W., New York, N. Y. Fireproof window. No. 1,340,312; May 18; v. 274; p. 444.
Yates, Martha A., and O., Portland, Oreg. Combination curtain and drapery holder. No. 1,359,012; Nov. 16; v. 280; p. 460.
Yates, Odaville. (See Yates, Martha A. and O.)
Yates, P. B., Machine Company. (See Johnson, Gustave T., assignor.)
Yates, P. B., Machine Company. (See Marshall, Charles J., assignor.)
Yauch, Christian, Detroit, Mich. Skylight construction. No. 1,332,280; Mar. 2; v. 272; p. 20.
Yauck, Alexander, Kansas City, Mo. Collar-button. No. 1,353,444; Sept. 21; v. 278; p. 432.
Yaxley, Ernest E., Chicago, Ill., assignor, by mesne assignments, to Acme Card System Company. Listing device. No. 1,329,568; Feb. 3; v. 271; p. 42.
Yaxley, Ernest E., Chicago, Ill., assignor to Acme Card System Company. Guide-card. No. 1,329,569; Feb. 3; v. 271; p. 42.
Yeager, Frank W., assignor to The Barrett Company, Grantwood, N. J. Paint and making the same. No. 1,355,102; Oct. 5; v. 279; p. 130.
Yeager, Matthias S., assignor to The Colmar Burner Company, San Francisco, Calif. Hydrocarbon-generator. No. 1,349,932; Aug. 17; v. 277; p. 475.
Yeager, Matthias S., assignor to Liberty Burner Co., Los Angeles, Calif. Hydrocarbon-burner. No. 1,353,010; Sept. 14; v. 278; p. 289.
Yeager, Peter E., Reading, Pa. Auxiliary air-supply device for internal-combustion engines. No. 1,332,586; Mar. 2; v. 272; p. 79.
Yeakel, George P., Norristown, Pa. Shears. No. 1,349,180; Aug. 10; v. 277; p. 256.
Yeakley, Melvin A., Canton, Ohio. Internal-combustion engine. No. 1,335,310; Mar. 30; v. 272; p. 810.
Yeamans, Scott. (See Thielepape, Arnold W., assignor.)
Yearwood, Byrd O. (See Jackson, R. E., and Yearwood.)
Yeats, Samuel W., Monrovia, Calif. Hook-and-eye fastener. No. 1,340,858; May 18; v. 274; p. 547.
Yeats, Samuel W., assignor of one-third to T. Hexmalhalch, Monrovia, and one-third to S. Robertson, Los Angeles, Calif. Work-stand. No. 1,327,581; Jan. 6; v. 270; p. 131.
Yeatter, George A., Monroe, Mich. Cream-separator. No. 1,328,866; Jan. 27; v. 270; p. 500.
Yeiser, Leon B., Oakland, Calif., and A. I. Fischer, Cleveland Heights, assignors to Glauber Brass Manufacturing Company, Cleveland, Ohio. Washbasin-fixture. No. 1,333,826; Mar. 16; v. 272; p. 424.
Yelle, Adolphe, Cheneville, Quebec, Canada. Canoe. No. 1,346,869; July 20; v. 276; p. 425.
Yelle, George. (See Kennedy, W. J., and Yelle.)
Yelm, Charles W., assignor to The Gates Rubber Company, Denver, Colo. Display-stand for tires. No. 1,342,731; June 8; v. 275; p. 271.
Yelm, Charles W., assignor to The Gates Rubber Company, Denver, Colo. Repaired tire. No. 1,352,164; Sept. 7; v. 278; p. 87.
Yennett, John, and E. T. Lonkert, Atlanta, Ga. Machine for making reel-frames. No. 1,341,964; June 1; v. 275; p. 69.
Yenovkian, Sarkis S., Troy, N. Y. Label-pasting machine. No. 1,337,684; Apr. 20; v. 273; p. 510.
Yensen, Trygve D., assignor to Westinghouse Electric & Manufacturing Company, Swissvale, Pa. Treating magnetizable material. No. 1,358,810; Nov. 16; v. 280; p. 421.
Yeo, Thomas. (See Mayer, M., and Yeo.)
Yeoman, Cyril, Herne Hill, England. Filtration and/or percolation of liquids. No. 1,349,798; Aug. 17; v. 277; p. 450.
Yeomans, Oreta L., Kis-Lyn, Pa. Bracket. No. 1,350,400; Aug. 24; v. 277; p. 613.
Yeomans, Sidney C., Long Beach, Calif. Display-box. No. 1,363,298; Dec. 28; v 281; p. 596.
Yeomans, Thomas, Montreal, Quebec, Canada, assignor to Ucan Specialties Corporation, New York, N. Y. Hair-cutting device. No. 1,332,587; Mar. 2; v. 272; p. 79.
Yerger, Charles W., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controller. No. 1,363,299; Dec. 28; v. 281; p. 596.

Digitized by Google

Yerger, William C., West Philadelphia, Pa. Package-tier. No. 1,357,134; Oct. 26; v. 279; p. 667.
Yerkes, Wilmer H., Pittsburgh, Pa. Sled. No. 1,349,645; Aug. 17; v. 277; p. 421.
Yerkes, Wilmer H., Pittsburgh, Pa. Ironing-machine. No. 1,362,980; Dec. 21; v. 281; p. 493.
Yeso, Paul, Dodgeville, Mich. Flying-machine. No. 1,350,201; Aug. 17; v. 277; p. 528.
Yingst, Harry M., Harrisburg, Pa. Advertising device. No. 1,352,336; Sept. 7; v. 278; p. 119.
Ylisto, Emil, Westerly, R. I. Dilator. No. 1,331,737; Feb. 24; v. 271; p. 568.
Yoch, Jacob B., St. Louis, Mo. Spark-plug. No. 1,359,140; Nov. 16; v. 280; p. 483.
Yocum, Arthur H. (See Roth, J. M., and Yocum.)
Yocum, John W., Wetumka, Okla. Box. No. 1,362,659; Dec. 21; v. 281; p. 431.
Yoder, Charles B. (See McLean, E. M., and Yoder.)
Yoder, Edward, Tulsa, Okla. Vehicle-towing device. No. 1,342,079; June 1; v. 275; p. 91.
Yody, Louis, Sharpsville, Pa. Match-box. No. 1,328,708; Jan. 20; v. 270; p. 440.
Yoerg, Henry, St. Paul, Minn. Friction draft-gear. No. 1,338,893; May 4; v. 274; p. 45.
Yohn, Oliver S., New York, N. Y. Tire. No. 1,363,300; Dec. 28; v. 281; p. 596.
Yokel, Frank, assignor to Pittsburgh Lamp, Brass & Glass Company, Pittsburgh, Pa. Lamp-fixture. No. 1,349,483; Aug. 10; v. 277; p. 316.
Yokel, Frank, assignor to Pittsburgh Lamp, Brass & Glass Company, Pittsburgh, Pa. Oil-heater. No. 1,349,484; Aug. 10; v. 277; p. 316.
Yokel, Frank, assignor to Pittsburgh Lamp, Brass & Glass Company, Pittsburgh, Pa. Lighting-fixture. No. 1,349,485; Aug. 10; v. 277; p. 316.
Yolton, Robert E., Birmingham, Ala., assignor to Kilby Frog and Switch Company. Switch-stand. No. 1,357,758; Nov. 2; v. 280; p. 106.
Yonemoto, Karoku, Honolulu, Hawaii. Puzzle. No. 1,339,251; May 4; v. 274; p. 111.
Yonge, Roy C., El Paso, Tex. Coil-box guard. No. 1,330,672; Feb. 10; v. 271; p. 279.
Yonick, William A., Philadelphia, Pa. Household article. No. 1,330,107; Feb. 10; v. 271; p. 174.
York, Aaron L., Jr., Liberty, N. C. Extension-moldboard. No. 1,346,363; July 13; v. 276; p. 266.
York Heating and Ventilating Corporation. (See Longenecker, Howard J., assignor.)
York, Henry J., San Francisco, Calif. Holder for containers. No. 1,350,908; Aug. 24; v. 277; p. 711.
York, Howard H., Logansport, Ind. Water-submerged air-chamber for water-pipes. No. 1,342,491; June 8; v. 275; p. 224.
York, Oscar M., Millington, Mich. Sheep-feeding rack. No. 1,347,070; July 20; v. 276; p. 465.
York, Percy, Duluth, Minn. Wrench. No. 1,361,130; Dec. 7; v. 281; p. 30.
York, Victor, Ardmore, Okla. Rotary swivel. No. 1,357,430; Nov. 2; v. 280; p. 43.
York, William M. (See Fisher, R. E., and York.)
Yorke, John P., Westminster, London, England. Magnetic deflector for electric arcs in lamps, searchlights, and the like. No. 1,353,693; Sept. 21; v. 278; p. 484.
Yorke, Patrick, Washington, Pa. Bull-wheel. No. 1,341,096; May 25; v. 274; p. 665.
Yoshinaga, Kuzo, Los Angeles, Calif. Toilet-seat-tilting device. No. 1,333,747; Mar. 16; v. 272; p. 410.
Yost, Ira G., Reading, Pa. Heating attachment. No. 1,334,827; Mar. 23; v. 272; p. 659.
Yost, Peter. (See Stoffer, F. C., and Yost.)
Yost, Willis K., Little Rock, Ark. Load-carrier for automobiles. No. 1,346,581; July 13; v. 276; p. 309.
Youberg, Charles F., Denver, Colo. Metal reinforced-concrete tie. No. 1,330,295; Feb. 10; v. 271; p. 209.
Youmans, Bartow B., assignor of one-half to C. Q. Trimble, College Park, Ga. Cutter attachment for plows. No. 1,362,279; Dec. 14; v. 281; p. 306.
Youmans, George P., Galesburg, assignor to Kalamazoo Tank & Silo Company, Kalamazoo, Mich. Wall-structure. No. 1,336,179; Apr. 6; v. 273; p. 90.
Youmans, Randolph, Stony Point, N. Y. Automobile attachment. No. 1,335,631; Mar. 30; v. 272; p. 870.
Young, Albert F., Brooklyn, N. Y. Invisible suspenders. No. 1,342,704; June 8; v. 275; p. 266.
Young, Andrew E. (See Hamrick, Martin D., assignor.)
Young, August F., Bunceton, Mo. Indicator. No. 1,357,759; Nov. 2; v. 280; p. 106.
Young, Carl C., Rushville, Ill. Combined scaffold and derrick. No. 1,247,430; July 20; v. 276; p. 536.
Young, Carl F., Kansas City, Kans. Patch material for rubber articles. No. 1,333,196; Mar. 9; v. 272; p. 245.
Young, Carl J., Seattle, Wash. Dumping-body for trucks. No. 1,329,101; Jan. 27; v. 270; p. 544.
Young, Charles, York, Me. Holding device for one-armed persons. No. 1,343,606; June 15; v. 275; p. 507.
Young, Charles D., Altoona, Pa. Coupling. No. 1,361,788; Dec. 7; v. 281; p. 161.
Young, Chester A., St. Joseph, Mo. Color-chart. No. 1,327,005; Jan. 6; v. 270; p. 24.
Young, Clarence M., Cadillac, Mich. Combined table and trunk. No. 1,334,580; Mar. 23; v. 272; p. 613.
Young, Clifford H., St. Louis, Mo., assignor to The Auto & Motor Truck Axle Company. Steering mechanism for motor-operated vehicles. No. 1,352,572; Sept. 14; v. 278; p. 201.
Young, Cyrus H., assignor to The Robinson-Reders Co., Inc., Newark, N. J. Jacket-type life-preserver. No. 1,336,400; Apr. 6; v. 273; p. 131.
Young, Daniel, Laurel, Ind. Posthole-digger. No. 1,331,310; Feb. 17; v. 271; p. 467.
Young, Daniel H., Manchester, Iowa. Electrically-heated humidifier. No. 1,328,068; Jan. 13; v. 270; p. 284.
Young, Daniel H., Manchester, Iowa. Electrothermogenic device for humidifiers. No. 1,328,069; Jan. 13; v. 270; p. 284.
Young, Daniel H., Manchester, Iowa. Water-baffling means for boiler-spouts. No. 1,333,052; Mar. 9; v. 272; p. 219.
Young, Daniel H., Manchester, Iowa. Humidifier. No. 1,356,846; Oct. 26; v. 279; p. 611.
Young, Darcy A., Milford, Mass., assignor to American Wringer Company, Woonsocket, R. I. Wringer. No. 1,329,570; Feb. 3; v. 217; p. 48.
Young, Darcy A., Milford, Mass., assignor to American Wringer Company, Woonsocket, R. I. Wringer. No. 1,330,830; Feb. 17; v. 271; p. 877.
Young, Eric W. (See Alexander, Carl H.)
Young, Frances M., Danville, Ill. Letter-cutting machine. No. 1,347,570; July 27; v. 276; p. 620.
Young, Frederick W., New Haven, Conn. Flash and recoil reducer for firearms. No. 1,342,978; June 8; v. 275; p. 321.
Young, George H., St. Paul, Minn., assignor to Automatic Storage Platform Company. Garage. No. 1,341,097; May 25; v. 274; p. 665.
Young, George W., Seattle, Wash. Automobile-bed. No. 1,345,820; July 6; v. 276; p. 96.
Young, George W., assignor to Detroit Auto Accessories Co., Seattle, Wash. Spot-light-directing handle. No. 1,335,146; Mar. 30; v. 272; p. 780.
Young, Glenn, Coshocton, assignor to The Owens Bottle Machine Company, Toledo, Ohio. Bottle-transferring apparatus. No. 1,358,913; Nov. 16; v. 280; p. 441.
Young, Gus B., Des Moines, Iowa. Steriliser attachment for hypodermic syringes. No. 1,336,061; Apr. 6; v. 273; p. 67.
Young, Harry M., and J. P. Regan, assignors to Western Wire Products Company, St. Louis, Mo. Wire fabric. No. 1,361,951; Dec. 14; v. 281; p. 241.
Young, Harvey, Seattle, Wash. Closure for garbage-cans. No. 1,333,051; Mar. 9; v. 272; p. 218.
Young, Henry H. and W. E., Kearney, [illegible]. Washing-machine. No. 1,358,405; Nov. 9; v. 280; p. 295.
Young, Herbert W. (See White, O., and Young.)
Young, Horace M., Niagara Falls, N. Y. Wood-splitting machine. No. 1,328,471; Jan. 20; v. 270; p. 396.
Young, Ida A., administratrix. (See Young, John V.)
Young, Jacob L., New Rochelle, N. Y. Dental appliance. No. 1,355,790; Oct. 12; v. 279; p. 316.
Young, James E., assignor of one-third to W. A. Gaston and one-third to W. P. Stone, Los Angeles, Calif. Anti-mistake hat-protector. No. 1,357,211; Oct. 26; v. 279; p. 681.
Young, James H. (See Williams, C., and Young.)
Young, James H., assignor to Aspromet Company, Pittsburgh, Pa. Coating material. No. 1,327,933; Jan. 13; v. 270; p. 258.
Young, James M., Dickson City, Pa. Universal support for eyeglasses. No. 1,334,878; Mar. 23; v. 272; p. 670.
Young, James T., St. Louis, Mo. Automatic Carburetor-regulator. No. 1,346,734; July 13; v. 276; p. 339.
Young, John. (See Drysdale, J. W. W., Jr., and Young.)
Young, John. (See Moore, James A., assignor.)
Yunck, John A., South Orange, N. J. Apparatus for producing light hydrocarbons. No. 1,345,656; July 6; v. 276; p. 64.
Young, John A., Belair, Md. Nut-lock. No. 1,352,643; Sept. 14; v. 278; p. 215.
Young, John H., Bartlesville, Okla. Ax. No. 1,348,920; Aug. 10; v. 277; p. 205.
Young, John V., deceased, Reading, Mass.; I. A. Young, administratrix, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. No. 1,328,070; Jan. 13; v. 270; p. 284.
Young, L. A., Industries, Inc. (See Fitzgerald, John W., assignor.)
Young, L. A., Industries. (See Miller, William, assignor.)
Young, L. A., Industries, Inc. (See Young, Leonard A., assignor.)
Young, Leland G., Muscatine, Iowa. Vermin-trap. No. 1,357,267; Nov. 2; v. 280; p. 13.
Young, Leonard A., Detroit, Mich. Upholstery-spring construction. No. 1,329,068; Jan. 27; v. 270; p. 588.
Young, Leonard A., Detroit, Mich. Upholstery-spring construction. No. 1,338,806; May 4; v. 274; p. 29.
Young, Leonard A., Detroit, Mich. Back-spring construction. No. 1,342,522; June 8; v. 275; p. 230.
Young, Leonard A., Highland Park, Mich. Upholstery-spring construction. No. 1,329,874; Feb. 3; v. 271; p. 99.

Digitized by Google

Alphabetical list of patentees—Continued.

Young, Leonard A., Highland Park, assignor to L. A. Young Industries, Inc., Detroit, Mich. Spring-cushion. No. 1,343,167; June 8; v. 275; p. 358.
Young, Leonard A., Highland Park, Mich. Floor-board for automobiles. No. 1,343,168; June 8; v. 275; p. 358.
Young, Lorin W., New York, N. Y. Portable lamp. No. 1,352,862; Sept. 14; v. 278; p. 260.
Young, Patrick J., Philadelphia, Pa. Support. No. 1,349,181; Aug. 10; v. 277; p. 256.
Young, Robert H., Washington, D. C. Baseball mitt and glove. No. 1,362,280; Dec. 14; v. 281; p. 306.
Young, Robert P., assignor to W. Hait, Montreal, Quebec, Canada. Refillable fuse. No. 1,359,561; Nov. 23; v. 280; p. 612.
Young, Samuel, Yquitos, Peru. Combustion device. No. 1,344,668; June 29; v. 275; p. 846.
Young, Walter E. (See Young, Henry H., and W. E.)
Young, Walter H., Highland Park, Mich. Governor. No. 1,346,521; July 13; v. 276; p. 297.
Young, William. (See Kern and Young.)
Young, William, Tacoma, Wash. Refrigerator-machine. No. 1,330,458; Feb. 10; v. 271; p. 239.
Young, William, Tacoma, Wash. Condenser-tank for refrigerating and ice-making machines. No. 1,349,746; Aug. 17; v. 277; p. 441.
Young, William, Detroit, Mich. Railway-joint. No. 1,350,129; Aug. 17; v. 277; p. 514.
Young, William A., New York, N. Y. Manufacturing grometa. No. 1,348,615; Aug. 3; v. 277; p. 94.
Young, William H., Denver, Colo. Infant-seat. No. 1,335,776; Apr. 6; v. 273; p. 14.
Young, William H. F., Muncie, Ind. Sealing attachment for fruit-jars. No. 1,346,735; July 13; v. 276; p. 339.
Young, William M., Victoria, British Columbia, Canada. Glass-washer. No. 1,337,303; Apr. 20; v. 273; p. 488.
Young, William R., Medford, Oreg. Tread-cycle. No. 1,353,011; Sept. 14; v. 278; p. 289.
Youngberg, Chester W., San Francisco, Calif. Die. No. 1,336,388; Apr. 6; v. 273; p. 129.
Youngberg, James, Alameda, assignor to William Cluff Company, San Francisco, Calif. Receptacle-spout. No. 1,328,704; Jan. 20; v. 270; p. 440.
Youngblood Electric Heater Corporation. (See Youngblood, Henry J., assignor.)
Youngblood, Henry J., Buffalo, N. Y. Electric heater. No. 1,363,948; Dec. 28; v. 281; p. 721.
Youngblood, Henry J., Los Angeles, Calif., assignor to Youngblood Electric Heater Corporation, Buffalo, N. Y. Electric heater. No. 1,363,947; Dec. 28; v. 281; p. 721.
Youngken, Ben N. (See Double, E., and Youngken.)
Youngman, Emanuel M., Coney Island, N. Y. Thermostat-controller for hot-water gas-heaters. No. 1,340,513; May 18; v. 274; p. 483.
Youngquist, Erik J., Chicago, Ill. Propeller. No. 1,349,403; Aug. 10; v. 277; p. 300.
Youngquist, Henry W., Manchester, N. H., assignor to Draper Corporation, Hopedale, Mass. Filling-replenishing loom. No. 1,331,838; Feb. 24; v. 271; p. 588.
Younker, Falk J., *et al.* (See Comb, J. M., and Peavey, assignors.)
Younkin, David F., Johnstown, Pa. Printing-frame. No. 1,338,894; May 4; v. 274; p. 45.
Youri, Peter V., Philadelphia, Pa. Tire-armor. No. 1,347,982; July 27; v. 276; p. 702.
Yourtee, Leon R., *et al.* (See Warrenfeltz, Edward M., assignor.)
Ypsilanti Reed Furniture Company. (See Chamberlain, Chauncey C., assignor.)
Yuba Manufacturing Company. (See Macaulay, Walter B., assignor.)
Yuncker, Clarence, Dodge City, Kans. Rack for cookie-boxes. No. 1,358,406; Nov. 9; v. 280; p. 295.
Yuncker, Clarence F. (See Riley, E., and Yuncker.)
Yungk, Edwin L., Hartford, Conn. Swagger-stick. No. 1,340,746; May 18; v. 274; p. 527.
Yungling, Paul, Los Angeles, Calif. Worm-gear construction for rotary drills, &c. No. 1,345,110; June 29; v. 275; p. 930.
Yuyama, Shigezo, New York, N. Y. Incandescent electric lamp. No. 1,341,966; June 1; v. 275; p. 69.
Yurow, Andrew, New York, N. Y. Burglar-proof lock. No. 1,346,364; July 13; v. 276; p. 266.
Zaboy, Maciej, assignor of one-half to W. Daniel, Allentown, Pa. Combination fountain-brush. No. 1,342,492; June 8; v. 275; p. 225.
Zabriskie, Edgar, *et al.* (See Rosentreter, Albert J., assignor.)
Zacharias, August, Minneapolis, Minn. Auxiliary heater. No. 1,332,371; Mar. 2; v. 272; p. 88.
Zacharias, Leonard L. (See Ellman, E. E., Kell, and Zacharias.)
Zacharias, Walther C., assignor to Steel Works Appliances Company, Pittsburgh, Pa. Detinning. No. 1,362,381; Dec. 14; v. 281; p. 326.
Zadig, Ernest, Chicago, Ill. Signal device for vehicles. No. 1,356,585; Oct. 26; v. 279; p. 559.
Zadora, Joseph M., Interlochen, assignor of one-half to A. J. Husband, Flint, Mich. Coupling. No. 1,362,521; Dec. 14; v. 281; p. 353.
Zadorozny, Wasyl, Meacham, Saskatchewan, assignor of one-half to T. Zygiel, Hamilton, Ontario, Canada. Pipe-wrench. No. 1,336,710; Apr. 13; v. 273; p. 251.
Zaenglein, Paul C. (See Page, George E., assignor.)
Za Haris, Michael J., assignor of one-half to G. A. Darnell, Minneapolis, Minn. Game. No. 1,338,475; Apr. 27; v. 273; p. 729.
Zahm, Edward, assignor to Zahm Manufacturing Company, Buffalo, N. Y. Filter. No. 1,328,221; Jan. 13; v. 270; p. 313.
Zahm Manufacturing Company. (See Zahm, Edward, assignor.)
Zahn, Albert F., Washington, D. C. Hovering aeroplane. No. 1,358,603; Nov. 9; v. 280; p. 334.
Zahn, Otto E., assignor to Standard Machinery Company, Schleisingerville, Wis. Spring-perch. No. 1,338,895; May 4; v. 274; p. 45.
Zahnow, Frank C., assignor of one-half to L. H. Gleason, Springfield, Mo. Combined collision-buffer and direction-indicator for vehicles. No. 1,337,872; Apr. 20; v. 273; p. 546.
Zahnow, Herman, Balfour, N. D. Windmill. No. 1,349,182; Aug. 10; v. 277; p. 256.
Zahnter, Robert R., Kansas City, Mo. Sickle. No. 1,342,369; June 1; v. 275; p. 147.
Zaiss, Alma A., Kansas City, Mo. Paper-clamp for typewriting machines. No. 1,327,075; Jan. 6; v. 270; p. 37.
Zajac, Leopold, Seattle, Wash. Pipe-threading machine. No. 1,340,646; Aug. 17; v. 277; p. 421.
Zakarka, Joseph, Brooklyn, N. Y. Sugar-packing machine. No. 1,350,130; Aug. 17; v. 277; p. 514.
Zakzewski, John S., Fullerton, Nebr. Folding chair. No. 1,353,694; Sept. 21; v. 278; p. 484.
Zaleski, Frank, assignor to The Reece Button Hole Machine Company, Boston, Mass. Sewing-machine. No. 1,338,348; Apr. 27; v. 273; p. 705.
Zaleski, Frank, assignor to The Reece Button Hole Machine Company, Boston, Mass. Sewing-machine. No. 1,338,476; Apr. 27; v. 273; p. 729.
Zaleski, Frank, assignor to The Reece Button Hole Machine Company, Boston, Mass. Sewing-machine. No. 1,338,477; Apr. 27; v. 273; p. 729.
Zaleski, Frank, Boston, and A. R. Schoenky, Somerville, assignors to Reece Shoe Machinery Company, Boston, Mass. Sewing-machine. No. 1,361,952; Dec. 14; v. 281; p. 241.
Zamecnik, Frank, Washington, D. C. Musical instrument. No. 1,340,098; May 11; v. 274; p. 347.
Zamernik, Andrew, Gheen, Minn. Automatic fuel-feeder. No. 1,335,265; Mar. 30; v. 272; p. 801.
Zander, John, Rock Falls, Ill. Rotary display-stand. No. 1,360,856; Nov. 30; v. 280; p. 935.
Zander, Richard H., Almon, Wis. Motor mowing-machine. No. 1,335,266; Mar. 30; v. 272; p. 802.
Zaokipny, John, Baird, Ontario, Canada. Shovel attachment. No. 1,346,870; July 20; v. 276; p. 425.
Zapert, Joseph, Lawrence, Mass. Convertible suitcase. No. 1,361,953; Dec. 14; v. 281; p. 241.
Zapletal, Frank J. (See Schebora, John, assignor.)
Zarger, Boyd U. (See Lancit, L. A., and Zarger.)
Zartman, Charles M., Denver, Colo. Wire-stretcher. No. 1,356,683; Oct. 26; v. 279; p. 579.
Zaugg, Philip, Blue Creek township, Adams county, Ind. Lifting-jack. No. 1,328,609; Jan. 20; v. 270; p. 428.
Zaun, George F., San Bernardino, Calif. Car-door ventilator. No. 1,353,301; Sept. 21; v. 278; p. 405.
Zaun, George F., San Bernardino, Calif. Vehicle draft-tongue. No. 1,361,512; Dec. 7; v. 281; p. 108.
Zave, Stanly, Chicago, Ill. Stovepipe-cleaner. No. 1,362,660; Dec. 21; v. 281; p. 432.
Zawada, Alex, Rembrandt, Manitoba, Canada. Drop-hammer. No. 1,337,379; Apr. 20; v. 273; p. 452.
Zawistowski, Martin, Brooklyn, N. Y. Cloth-cutting machine. No. 1,338,478; Apr. 27; v. 273; p. 729.
Zawistowski, Martin, Brooklyn, N. Y. Fur-cutting machine. No. 1,341,450; May 25; v. 274; p. 734.
Zawistowski, Martin, Brooklyn, N. Y. Grinder for rotary cloth-cutting machines. No. 1,341,699; June 1; v. 275; p. 17.
Zbinden, Eugen, Bern, Switzerland, assignor to Busch-Sulzer Bros. Diesel Engine Company, St. Louis, Mo. Engine reverse-gear. No. 1,352,717; Sept. 14; v. 278; p. 230.
Zbranek, Joseph, Hallettsville, Tex. Plow. No. 1,346,436; July 13; v. 276; p. 281.
Zdanowich, Joe O., London, England. Manufacture and production of cellulose acetates. No. 1,347,801; July 27; v. 276; p. 666.
Zdanowski, Michael A., Philadelphia, Pa. Making glazed kid-leather. No. 1,345,429; July 6; v. 276; p. 20.
Zdanowski, Michael A., Philadelphia, Pa. Seasoning leather. No. 1,345,430; July 6; v. 276; p. 20.
Zebell, William, Odell, Ill. Float-operated circuit-breaker. No. 1,336,269; Apr. 6; v. 273; p. 107.
Zebold, George W., Dayton, Ohio. Gas-meter. No. 1,360,612; Nov. 30; v. 280; p. 887.
Zebrock, Louis S., Jr., Hastings, N. Y. Pen and pencil attachment. No. 1,343,245; June 15; v. 275; p. 437.
Zebrowski, Alexander, Stamford, Conn. Shade-bracket. No. 1,353,695; Sept. 21; v. 278; p. 484.
Zecchini, Alfredo. (See Gervasoni, P., and Zecchini.)
Zecchini, Alfredo, and I. Panza, Turin, Italy. Combined foot support and heater for vehicles. No. 1,361,954; Dec. 14; v. 281; p. 242.
Zeedyk, William, assignor to Benjamin Eastwood Company, Paterson, N. J. Box-operating mechanism. No. 1,339,099; May 11; v. 274; p. 328.

Zeedyk, William, assignor to Benjamin Eastwood Company, Paterson, N. J. Stop-motion for looms. No. 1,360,487; Nov. 30; v. 280; p. 862.
Zeglen, Casimir, Cleveland, Ohio. Tire fabric. No. 1,335,811; Mar. 30; v. 272; p. 810.
Zeglen, Casimir, Cleveland, Ohio. Weaving fabric from rubberized yarn. No. 1,360,702; Nov. 30; v. 280; p. 904.
Zeh, Edmund W., Newark, N. J. Power-press. No. 1,349,033; Aug. 10; v. 277; p. 227.
Zehringer, Howard A., assignor of one-third to Oscar L. Pond, Indianapolis, Ind. Short-circuiting lock for motor-vehicles and the like. No. 1,344,369; June 22; v. 275; p. 722.
Zeidler, Ernest, Marshfield, Wis. Cheese-box. No. 1,350,909; Aug. 24; v. 277; p. 711.
Zeidler, Frederick W. (See Halpern, C., and Zeidler.)
Zeidler, Frederick W., Jersey City, and C. Halpern, Newark, N. J. Hat and garment support for foldable seats. No. 1,345,729; July 6; v. 276; p. 79.
Zeidler, Paul F. (See Hunt, H., and Schaab, assignors.)
Zeidler, Paul M. (See Zeidler, William A. and P. M.)
Zeidler, William A. and P. M., assignors to Solace Comfort Service Corporation, New York, N. Y. Vending-machine. No. 1,355,583; Oct. 12; v. 279; p. 276.
Zeidler, William A. and P. M., New York, N. Y. Coin-box. No. 1,355,584; Oct. 12; v. 279; p. 276.
Zeigler, William H., Long Island City, N. Y. Spark-plug. No. 1,344,530; June 22; v. 275; p. 754.
Zeiner-Henriksen, Hans T., Christiania, Norway. Adjustable compass-dial. No. 1,349,455; Aug. 10; v. 277; p. 310.
Zeiss, Firm of Carl. (See Bauersfeld, Walther, assignor.)
Zeiss, Firm of Carl. (See König, Albert, assignor.)
Zeitler Gas Car & Locomotive Company, The. (See Zeitler, Raymond S., assignor.)
Zeitler, Mary S., and W. S. Lloyd, Washington, D. C. Jewel wrist-safe. No. 1,352,863; Sept. 14; v. 278; p. 260.
Zeitler, Raymond S., Champaign, assignor to The Zeitler Gas Car & Locomotive Company, Chicago, Ill. Railway-motor-truck bolster. No. 1,332,588; Mar. 2; v. 272; p. 79.
Zeitlin, Joseph, Fulham, London, England. Toothed gearing. No. 1,347,730; July 27; v. 276; p. 652.
Zeitz, Hugo C., Monessen, Pa. Shade, curtain, and drapery holder. No. 1,349,933; Aug. 17; v. 277; p. 476.
Zelaya, José S., New York, N. Y. Corn and callous remover. No. 1,335,777; Apr. 6; v. 273; p. 14.
Zelewski, Roman v. and H. Siegel, Engis, Belgium. Device for pushing back ores into the interior of mechanical muffler roasting-furnaces. No. 1,330,252; May 4; v. 274; p. 111.
Zelkowski, John, Whitkow, Saskatchewan, Canada. Boiler. No. 1,337,810; Apr. 20; v. 273; p. 533.
Zeman, Wenzel, Schenectady, N. Y. Power-transmission apparatus. No. 1,337,873; Apr. 20; v. 273; p. 546.
Zenite Metal Company. (See Nauckhoff, Birger, assignor.)
Zenith Systems Corporation. (See Rand, James H., Jr., assignor.)
Zenitheron Company. (See Sutter, Roer B., assignor.)
Zenk, Charles C., Wilkinsburg, Pa., assignor to Diehl Manufacturing Company, Elizabeth, N. J. Making commutators. No. 1,360,165; Nov. 23; v. 280; p. 731.
Zenk, Charles C., Westfield, assignor to Diehl Manufacturing Company, Elizabeth, N. J. Commutator. No. 1,360,166; Nov. 23; v. 280; p. 731.
Zenker, Fredrick. (See Ball, A. P., and Zenker.)
Zentarske, Anthony, Joliet, Ill. Automatic window-lock. No. 1,332,315; Mar. 2; v. 272; p. 26.
Zera, Piotr, Schenectady, N. Y. Cigar-piercer. No. 1,349,248; Aug. 10; v. 277; p. 270.
Zerba, Sarah L., administratrix. (See Hoffman, M., and Jopling.)
Zerenga, Bonaventure, Brooklyn, N. Y. Game apparatus. No. 1,344,669; June 29; v. 275; p. 847.
Zerlini, Alessandro, Brescia, Italy. Extensible ladder. No. 1,351,146; Aug. 31; v. 277; p. 819.
Zerruchi, Jenny, née Rodocanachi, Paris, France. Unwinding device. No. 1,328,777; Jan. 20; v. 270; p. 453.
Zesbaugh, Lawrence G., Minneapolis, Minn. Elapsed-time-calculating device. No. 1,332,372; Mar. 2; v. 272; p. 38.
Zess, Andrew. (See Lee, O. G., and Zess.)
Zetka, John F., and J. Šeřčík, Newark, N. J. Fire-escape. No. 1,357,668; Nov. 2; v. 280; p. 88.
Zetsche, William G., Chicago, Ill. Furnace. (Reissue.) No. 15,009; Dec. 14; v. 281; p. 366.
Zetterlund, Carl, Chicago, Ill. Hoisting apparatus and controlling means therefor. No. 1,339,253; May 4; v. 274; p. 111.
Zetterlund, Theodor, assignor to Harley-Davidson Motor Company, Milwaukee, Wis. Semi-automatic roller-retainer milling-machine. No. 1,333,053; Mar. 9; v. 272; p. 219.
Zetzman, William, Post, Tex. Weeding device. No. 1,343,805; June 15; v. 275; p. 547.
Zeuthen, Anders C. A., and M. Larsen, Silkeborg, Denmark. Crystallizing margarin. No. 1,345,657; July 6; v. 276; p. 64.
Zhukoff, Dmitry V., Richmond, Va. Caliper. No. 1,355,724; Oct. 12; v. 279; p. 303.
Zhukoff, Dmitry V., New York, N. Y. Soft-collar attachment. No. 1,355,798; Oct. 12; v. 279; p. 317.
Zhukoff, Dmitry V., Richmond, Va. Bevel-protractor. No. 1,358,604; Nov. 9; v. 280; p. 334.
Ziani, Auguste. (See Trudel, E. P. O., and Ziani.)
Zieche, Paul R., Moville township, Woodbury county, assignor of one-half to W. Haviland, Moville, Iowa. Wrench. No. 1,348,342; Aug. 3; v. 277; p. 42.
Zieche, Paul R., Moville township, Woodbury county, Iowa. Tractor-wheel. No. 1,342,493; June 8; v. 275; p. 225.
Zied, Samuel, Philadelphia, Pa. Derrick for vehicles. No. 1,345,304; June 29; v. 275; p. 968.
Ziegenfus, William C., Kingston, Pa. Drumhead. No. 1,334,343; Mar. 23; v. 272; p. 568.
Ziegler, Alfred P. (See Senseman, E. L., and Ziegler.)
Ziegler, Crawford, Barberton, Ohio. Tire wrapping and unwrapping apparatus. No. 1,336,328; Apr. 6; v. 273; p. 118.
Ziegler, Crawford, Barberton, Ohio. Tire wrapping and unwrapping apparatus. No. 1,336,329; Apr. 6; v. 273; p. 118.
Ziegler, Edwin S., York, Pa. Windshield-hinge. No. 1,344,844; June 29; v. 275; p. 880.
Ziegler, Jacob, Coffeyville, Kans. Combination-tool. No. 1,353,445; Sept. 21; v. 278; p. 433.
Ziegler, Louis V., Ridgefield Park, N. J. Separator for gas-stoves. No. 1,344,670; June 29; v. 275; p. 847.
Zielezinski, Stefan, Boston, Mass. Shipping-package. No. 1,348,682; Aug. 3; v. 277; p. 107.
Zielisko, John, Smiatyn, Alberta, Canada. Vehicle-wheel. No. 1,327,849; Jan. 13; v. 270; p. 242.
Zielisko, John, Toronto, Ontario, Canada. Combined brush and comb. No. 1,362,830; Dec. 21; v. 281; p. 465.
Ziemann, Gustav E., assignor of one-fourth to H. W. Flatow, Milwaukee, Wis. Vehicle signaling device. No. 1,330,970; Feb. 17; v. 271; p. 405.
Ziemer, Frederick, Freeport, N. Y. Faucet. No. 1,327,850; Jan. 13; v. 270; p. 243.
Ziemer, Fredrick, Freeport, and C. Braun, Brooklyn, N. Y. Ash-sifter. No. 1,333,236; Mar. 9; v. 272; p. 253.
Zierlein, George L. and O. W., Peck, Idaho. Fly-exit for window-screens. No. 1,361,659; Dec. 7; v. 281; p. 137.
Zierlein, Oliver W. (See Zierlein, George L. and O. W.)
Zietlow, Paul F., Brooklyn, N. Y. Combined atomizer and vaporizer. No. 1,354,641; Oct. 5; v. 279; p. 39.
Zifferer, Lothar R., Lancaster, Pa. Expansion-shield. No. 1,352,494; Sept. 14; v. 278; p. 186.
Zifferer, Lothar R., Lancaster, Pa. Receptacle. No. 1,352,495; Sept. 14; v. 278; p. 186.
Zilliox, John, Orchard Park, N. Y. Boiler-tube cleaner. No. 1,363,301; Dec. 28; v. 281; p. 597.
Zimarik, John, Akron, Ohio. Tractor. No. 1,341,098; May 25; v. 274; p. 665.
Zimmer, Benjamin, Minneapolis, Minn. Table. No. 1,358,353; Nov. 9; v. 280; p. 284.
Zimmer, George W. (See Okun, Morris B., assignor.)
Zimmer, Harry R., Los Angeles, Calif., assignor to The Stereotintograph Company. Cinematographic stereoscope. No. 1,334,480; Mar. 23; v. 272; p. 593.
Zimmer, Paul H., Schenectady, N. Y., assignor to General Electric Company. Controller for electric motors. No. 1,343,021; June 8; v. 275; p. 329.
Zimmer, Paul H., Schenectady, N. Y., assignor to General Electric Company. Starting device for electric motors. No. 1,343,022; June 8; v. 275; p. 330.
Zimmer, William, New York, N. Y. Pattern-punch. No. 1,335,632; Mar. 30; v. 272; p. 870.
Zimmer, William T., New York, N. Y. Beater. No. 1,332,788; Mar. 2; v. 272; p. 117.
Zimmerman, Alonzo D., Superior, Colo. Miner's lamp. No. 1,328,553; Jan. 20; v. 270; p. 412.
Zimmerman, Carrie F., Taft, Calif. Bedpan. No. 1,340,680; May 18; v. 274; p. 515.
Zimmerman, Charles P., Dayton, Ohio, assignor, by mesne assignments, to The Richmond-Standard Manufacturing Company, Richmond, Ind. Stock-rack. No. 1,348,343; Aug. 3; v. 277; p. 42.
Zimmerman, Clarence C., assignor to National Surface Guard Company, Chicago, Ill. Rail-saw. No. 1,348,616; Aug. 3; v. 277; p. 94.
Zimmerman, Edgar A., Shamokin, Pa. Combined hair-plane and safety-razor. No. 1,342,494; June 8; v. 275; p. 225.
Zimmerman, Fred H. (See Giebel, J., and Zimmerman.)
Zimmerman, John, Brooklyn, N. Y. Record-index envelop. No. 1,336,270; Apr. 6; v. 273; p. 107.
Zimmerman, John W., Baltimore, Md. Player-piano. No. 1,352,337; Sept. 7; v. 278; p. 120.
Zimmerman, Thomas, Niagara Falls, N. Y., assignor, by mesne assignments, to U. S. Light & Heat Corporation. Switch. No. 1,362,661; Dec. 21; v. 281; p. 432.
Zimmerman, Thomas, assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Switch. No. 1,362,662; Dec. 21; v. 281; p. 432.
Zimmerman, Thomas, assignor, by mesne assignments, to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Commutator. No. 1,362,663; Dec. 21; v. 281; p. 432.
Zimmerman, Thomas, assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Automobile instrument-board. No. 1,363,303; Dec. 28; v. 281; p. 597.
Zimmerman, Thomas, and T. R. Du Bois, assignors to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Reversible engine-starting system. No. 1,363,302; Dec. 28; v. 281; p. 597.

Alphabetical list of patentees—Continued.

Zimmerman, Warren R., Joplin, Mo. Toy. No. 1,359,778; Nov. 23; v. 280; p. 655.
Zimmermann, Desire, and C. Mattler, Marseille, France. Joint for sparking-plugs and the like. No. 1,363,380; Dec. 28; v. 281; p. 612.
Zimmermann, Hans, assignor to Schutte and Koerting Company, Philadelphia, Pa. Heat-transfer apparatus. No. 1,338,479; Apr. 27; v. 273; p. 729.
Zimmermann, Hans J., assignor, by mesne assignments, to The G. A. Buhl Company, Chicago, Ill. Liquid and gas contact apparatus. No. 1,350,202; Aug. 17; v. 277; p. 528.
Zimmermann, Hans J., assignor, by mesne assignments, to The G. A. Buhl Company, Chicago, Ill. Atomizing-nozzle. No. 1,363,703; Dec. 28; v. 281; p. 674.
Zimmermann, Paul G., Niles, Ohio, assignor to Curtiss Aeroplane and Motor Corporation. Fuselage-wiring. No. 1,358,605; Nov. 9; v. 280; p. 335.
Zimmermann, Simeon. (See Palosky, Fredrick C., assignor.)
Zimmerman, Thomas, assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Dynamoelectric machine. No. 1,353,853; Sept. 29; v. 278; p. 564.
Zimmerman, Thomas, Cleveland, Ohio, assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Commutator-connector. No. 1,357,016; Oct. 26; v. 279; p. 644.
Zimmermann, Victor, Vienna, Austria. Lock. No. 1,356,725; Oct. 12; v. 279; p. 303.
Zimpfer, William A., Jackson Center, Ohio, Corn-harvester. No. 1,344,017; June 22; v. 275; p. 653.
Zingheim, Frederick W., Ferguson, assignor to Moon Brothers Manufacturing Company, St. Louis, Mo. Pump-base. No. 1,329,281; Jan. 27; v. 270; p. 578.
Zink, Fred W., assignor to Kales Stamping Company, Detroit, Mich. Mirror-support. No. 1,359,645; Nov. 23; v. 280; p. 628.
Zink, James L., Indianapolis, Ind. Arch-support. No. 1,349,355; Aug. 10; v. 277; p. 291.
Zink, William F., Garrett, Ind. Means for locking automobiles. No. 1,327,366; Jan. 6; v. 270; p. 90.
Zinn, Jacob H., Indianapolis, Ind. Mold for sewer-structure invert-sections. No. 1,327,006; Jan. 6; v. 270; p. 24.
Zinser, Charles P., Washington, Ill. Draft connection for earth-stirring implements. No. 1,353,620; Sept. 21; v. 278; p. 469.
Zinser, Paul R., Cincinnati, Ohio. Art-board. No. 1,334,879; Mar. 23; v. 272; p. 670.
Zion, Isidor, Ridgefield, N. J. Toy device. No. 1,342,577; June 8; v. 275; p. 242.
Zion, Isidor, Ridgefield, N. J. Educational device. No. 1,346,929; July 20; v. 276; p. 437.
Zion, Isidor, Ridgefield, N. J. Educational device. No. 1,346,930; July 20; v. 276; p. 437.
Zion, Isidor, Ridgefield, N. J. Toy-device. No. 1,348,921; Aug. 10; v. 277; p. 205.
Zion, Isidor, Ridgefield, N. J. Toy. No. 1,359,646; Nov. 23; v. 280; p. 628.
Zip, Jozef, Snow, N. D. Combined rake and hoe. No. 1,329,102; Jan. 27; v. 270; p. 544.
Zip Manufacturing Company. (See Werder, John F., assignor.)
Zipeto, Cosmo D., Elmira, N. Y. Spraying apparatus. No. 1,329,108; Jan. 27; v. 270; p. 545.
Zipf, Carl F., Johnstown, Pa. Toy steam-shovel. No. 1,351,981; Sept. 7; v. 278; p. 53.
Zipp, Arthur J., Charlevoix, Mich. Logging grapples or tongs. No. 1,340,313; May 18; v. 274; p. 445.
Zircon Tool & Alloy Corporation. (See Cooper, Hugh S., assignor.)
Zisk, Anthony, Baltimore, Md. Cooking utensil. No. 1,354,085; Sept. 28; v. 278; p. 606.
Ziska, Adam, Jr. (See Smith, C. S., and Ziska.)
Zitella, William, Adamston, W. Va. Vegetable-cutter. No. 1,339,254; May 4; v. 274; p. 112.
Zlatnik, Frank, Miami, Ariz. Tube-cleaner. No. 1,355,726; Oct. 12; v. 279; p. 304.
Zobel, Charles A., Roanoke, Ala. Railway-crossing. No. 1,347,431; July 20; v. 276; p. 536.
Zoch, Stefan, Munising, Mich. Baby-walker. No. 1,350,401; Aug. 24; v. 277; p. 613.
Zoeller, Walter E. and J. E. Ulrich, assignors to Buzz Engineering Company, Louisville, Ky. Conveyer-roller. No. 1,362,910; Dec. 21; v. 281; p. 480.
Zoelly, Henri, Zurich, Switzerland. Device for transmitting the load of wheeled vehicles to their wheels. No. 1,331,039; Feb. 17; v. 271; p. 418.
Zofsak, John J., Greensburg, Pa. Washing-machine. No. 1,353,302; Sept. 21; v. 278; p. 405.
Zoia, Hector, Cleveland, Ohio. Service-holder for carrying dishes. No. 1,330,568; Feb. 10; v. 271; p. 260.
Zoog, Charles, Gary, Ind., and J. Mutch, Fairport Harbor, Ohio. Ore-bin-locking device. No. 1,332,373; Mar. 2; v. 272; p. 39.
Zook, Orin J., and J. C. Marshall, Butte, Mont. Mine-car. No. 1,338,678; Nov. 9; v. 280; p. 349.
Zoph, Norman M. (See Benaiman and Zoph.)
Zorger, William H., Champaign, Ill. Electric headlight. No. 1,348,617; Aug. 3; v. 277; p. 95.
Zorger, William H., Champaign, Ill. Lens for automobiles. No. 1,348,618; Aug. 3; v. 277; p. 95.
Zouck, George H., Orange, N. J., assignor to Air Reduction Company, Inc. Cutting-blowpipe. No. 1,332,281; Mar. 2; v. 272; p. 20.
Zouri Drawn Metals Company. (See Murnane, Daniel J., assignor.)
Zsarnay, Béla, Belleville, N. J. Automatic vehicle toy. No. 1,351,147; Aug. 31; v. 277; p. 820.
Zsoldos, Julius, Brooklyn, N. Y. Machine for making phonographic records. No. 1,357,268; Nov. 2; v. 280; p. 13.
Zubal, John, Walsen, Colo. Safety-clevis. No. 1,351,825; Sept. 7; v. 278; p. 22.
Zubryd, Anton, assignor of one-half to Porfyrij Kiselycia, Jersey City, N. J. Life-buoy. No. 1,347,240; July 20; v. 276; p. 497.
Zuck, Oral C., and L. O. Bacon, Okmulgee, Okla. Rope or cable clamp for well-drilling rigs. No. 1,359,013; Nov. 16; v. 280; p. 460.
Zucker, Gottlieb F., Chicago, Ill. Vehicle-spring suspension. No. 1,327,076; Jan. 6; v. 270; p. 37.
Zucker, Henry L., East Orange, N. J., assignor to A. P. Munning & Co., New York, N. Y. Buffing and polishing wheel. No. 1,353,207; Sept. 21; v. 278; p. 387.
Zuckerman, Abraham, Newark, N. J. Device for affixing tips to shoe-laces. No. 1,363,949; Dec. 28; v. 281; p. 722.
Zuckerman, Samuel G., New York, N. Y. Inscription-printing attachment for cameras. No. 1,336,330; Apr. 6; v. 273; p. 118.
Zuhars, B. C., and H. D. Clarke, Columbus, assignors to The Ohio Tractor Company, Columbus, Ohio. Assembly of differential, transmission, and clutch housings. No. 1,360,857; Nov. 30; v. 280; p. 935.
Zuhars, Benjamin C., and H. D. Clarke, Columbus, assignors to The Ohio Tractor Company, Columbus, Ohio. Demountable couple gear-bearing cap. No. 1,360,858; Nov. 30; v. 280; p. 935.
Zukowski, Michal, Wilmington, Del. Padlock. No. 1,340,928; May 25; v. 274; p. 632.
Zulver, Cornelis. (See Smith, L. E., Zulver, and Thompson.)
Zulver, Cornelis, London, and L. E. Smith, South Shields, England. Furnace-front. No. 1,354,429; Sept. 28; v. 278; p. 675.
Zumwalt, Alva E., Caney, Kans. Propeller-gearing for flying-machines. No. 1,338,116; Apr. 27; v. 273; p. 662.
Zurcher, Frederick, Pittsburgh, Pa. Necktie-clasp. No. 1,360,488; Nov. 30; v. 280; p. 863.
Züst, Paul, Rheineck, and J. Metzger, Heiden, assignors to Stabeli, Rietmann & Co., St. Gallen, Switzerland. Pantograph embroidery-machine. No. 1,341,160; May 25; v. 274; p. 677.
Zwarich, Andrew C., Homestead, Pa. Spring drive mechanism. No. 1,355,585; Oct. 12; v. 279; p. 277.
Zwebell, Arthur B., Milwaukee, Wis. Vulcanizer. No. 1,337,631; Apr. 20; v. 273; p. 499.
Zwerling, John J., San Francisco, Calif. Method and insulation for heating devices. No. 1,363,074; Dec. 21; v. 281; p. 512.
Zwick, Charles F. (See Elsey, B., Zwick, and Lawson.)
Zwicke, Martin, assignor to I. B. Kleinert Rubber Company, New York, N. Y. Garment-protector. No. 1,351,982; Sept. 7; v. 278; p. 53.
Zwicker, Frederick P., assignor of twenty-five per cent. to W. J. Ryan and twenty-five per cent. to A. H. Holaday, San Francisco, Calif. Erasing-shield. No. 1,353,133; Sept. 14; v. 278; p. 312.
Zwicky, Jean, South Tottenham, England. Pump and compressor. No. 1,339,311; May 4; v. 274; p. 121.
Zwijacz, Paul, Chicago, Ill. Rocking-chair. No. 1,358,274; Nov. 9; v. 280; p. 268.
Zwolinski, Anton, Cleveland, Ohio. Extensible chair-bed. No. 1,346,582; July 13; v. 276; p. 309.
Zwolsman, Hendrik, Amsterdam, Netherlands. Change-speed gear for automobiles and the like. No. 1,358,275; Nov. 9; v. 280; p. 268.
Zwosta, Michael J. (See Graf, F. C., and Zwosta.)
Zych, Wojciech. (See Pehel, Zygmunt, assignor.)
Zycki, Alfons, Baltimore, Md. Hall utensil. No. 1,348,619; Aug. 3; v. 277; p. 95.
Zyglel, Tony. (See Zadorozny, Wasyl, assignor.)
Zyskowski, Stanislaw, Chester, Pa. Curtain-holder. No. 1,331,738; Feb. 24; v. 271; p. 568.
Zyskowski, Stanley, Chester, Pa. Shade-roller and curtain pole supporting bracket. No. 1,357,605; Nov. 2; v. 280; p. 76.

Digitized by Google

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

A. & J. Manufacturing Co., The. (See Johnson, Edward H., assignor.)
A-Z Company, The. (See Hanmer, Laurence G., assignor.)
Abitz, Walter. (See Anderson and Abitz.)
Abner, Joseph, Chicago, Ill. Lamp-shade. No. 56,405; Oct. 26; v. 279; p. 683.
Abolin, Harry T., Woodridge, N. J., assignor to Witcombe McGeachin & Co., New York, N. Y. Article of manufacture. No. 55,108; May 11; v. 274; p. 356.
Abolin, Harry T., Woodridge, N. J., assignor to Witcombe, McGreachin & Co., New York, N. Y. Article of manufacture. No. 55,582; July 6; v. 276; p. 155.
Aborn, Edward, East Orange, N. J. Filter coffee-pot. No. 54,810; Mar. 30; v. 272; p. 888.
Ackles, Melvin S., assignor to Lincoln Highway Tire Co., Fulton, Ill. Tire-casing. No. 56,490; Nov. 2; v. 280; p. 141.
Adams-Bagna Electric Company, The. (See Yates, William G., assignor.)
Adams, Julius F., Pittsburgh, Pa. Fireplace-grate. No. 55,228; May 25; v. 274; p. 769.
Addis, Frank R., Allentown, Pa. Game-board. No. 55,544; June 29; v. 275; p. 976.
Addis, Frank R., Allentown, Pa. Game-board. No. 56,575; Nov. 16; v. 280; p. 552.
Adler, Jesse, New York, N. Y. Store-front. No. 56,406; Oct. 26; v. 279; p. 684.
Adler, Milton D., New York, N. Y. Article of manufacture. No. 56,330; Oct. 5; v. 279; p. 133.
Ainsworth, Albert, Swarthmore, assignor to Becker, Smith & Page, Philadelphia, Pa. Embossed wall-paper. Nos. 55,109–12; May 11; v. 274; p. 356.
Ainsworth, Howard D. (See Freitag, K. J. W., and Ainsworth.)
Aisenstein, Julius, New York, N. Y. Button, badge, or similar article. No. 55,229; May 25; v. 274; p. 769.
Aitken, Edward S., Bridgeport, Conn. Game-board. No. 55,404; June 8; v. 275; p. 364.
Ajax Rubber Company. (See Kraft, Emil J., assignor.)
Alderfer, John M., Akron, Ohio. Elastic vehicle-tire. No. 56,260; Sept. 14; v. 278; p. 313.
Alexander, Arthur S., New York, N. Y., assignor to J. Alexander Manufacturing Company. Bezel. No. 54,572; Mar. 9; v. 272; p. 322.
Alexander, Arthur S., New York, N. Y., assignor to J. Alexander Manufacturing Company. Bezel. No. 55,230; May 25; v. 274; p. 769.
Alexander, Arthur S., assignor to The J. Alexander Manufacturing Company, New York, N. Y. Mirroscope-support. No. 55,545; June 29; v. 275; p. 976.
Alexander, J., Manufacturing Company. (See Alexander, Arthur S., assignor.)
Allard, Edwin R., Athol, Mass. Label. No. 55,113; May 11; v. 274; p. 357.
Allard, Maurice L. A. A., Akron, Ohio, assignor to The Overland Tire & Rubber Co., Omaha, Nebr. Tire-tread. No. 55,144; May 18; v. 274; p. 550.
Allard, Maurice L. A. A., Akron, assignor to W. H. Millikan, Cleveland, Ohio. Tire-tread. No. 56,113; Aug. 24; v. 277; p. 733.
Allen, Edgar W., Campbell, Calif. Adjustable industrial seat. No. 55,927; Aug. 3; v. 277; p. 136.
Allen, Edgar W., Campbell, Calif. Spider-bracket for industrial seats. No. 56,407; Oct. 26; v. 279; p. 684.
Allen, Henry, Springfield Gardens, N. Y. Watch-fob, locket, or pendant. No. 55,735; July 13; v. 276; p. 356.
Allen, Irving R., Chicago, Ill., assignor to Roberts Cone Manufacturing Company, St. Joseph, Mo. Ice-cream cone. No. 56,576; Nov. 16; v. 280; p. 552.
Alsterlund, Henry E., Roslindale, Mass. Badge, emblem, or similar article. Nos. 55,013–14; May 4; v. 274; p. 136.
Alsterlund, Henry E., Roslindale, Mass. Badge, emblem, or similar article. No. 56,797; Dec. 28; v. 281; p. 744.
Altenberg, George P., assignor to The Icy-Hot Bottle Company, Cincinnati, Ohio. Casing for a vacuum-insulated jar. No. 54,884; Apr. 20; v. 273; p. 569.
Alterson, Louis, Averne, N. Y. Buckle. No. 56,246; Sept. 7; v. 278; p. 135.
Amazon Rubber Company, The. (See Kuhlke, Otto J., assignor.)
American Auto Lamp Company. (See Berk, William, assignor.)
American Automatic Products Corporation. (See Mangless, William A., assignor.)
American Balsa Company. (See Ranlett, David L., assignor.)
American Bosch Magneto Corporation. (See Bartsch, Alfred H., assignor.)
American Can Company. (See Beckman, Francis X., assignor.)
American Can Company. (See Corey, Harry R., assignor.)
American Cement Products Company. (See Landwehr, Henry A., assignor.)
American Chicle Company. (See Stranders, Julien, assignor.)
American Fabrics Company, The. (See Smith, William H., assignor.)
American Hardware Corporation. (See Stone, Elmer B., assignor.)
American Metal Cap Company. (See Hammer, Charles, assignor.)
American Newsvender Corporation. (See Hotaling, Omar J., assignor.)
American Ocarina & Toy Co. (See Malavarca, Eduardo, assignor.)
American Stove Company. (See Stockstrom, Arthur, assignor.)
American Type Founders Company. (See Goudy, Frederick W., assignor.)
Amis, Lewis A., Muskogee, Okla. Leather-cup. No. 56,577; Nov. 16; v. 280; p. 553.
Amreihn, Frank K., Detroit, Mich., assignor to The Stratford Phonograph Company, Ashland, Ohio. Phonograph-horn. No. 56,644; Nov. 23; v. 280; p. 750.
Anderson, Arvid M., and W. Abitz, Rockford, Ill. Can-opener. No. 54,864; Feb. 10; v. 271; p. 299.
Anderson, John F., San Francisco, Calif. Automobile direction and stop signal. No. 56,048; Aug. 10; v. 277; p. 344.
Anderson, Reubin N., White Plains, N. Y., and A. Robinson, Cleveland, Ohio, assignors to J. W. Ely, White Plains, N. Y. Car for an aerial swing. No. 56,685; Nov. 30; v. 280; p. 962.
Andrews, Charles, Jr., assignor to Andrews Wire & Iron Works, Rockford, Ill. Frame for ovenware. No. 56,548; Nov. 9; v. 280; p. 353.
Andrews Wire & Iron Works. (See Andrews, Charles, Jr., assignor.)
Angle Steel Stool Co. (See Lothrop, Thomas M., assignor.)
Anglo-American Pharmaceutical Corporation. (See Shropshire, George E., assignor.)
Anklam, William F., assignor to C. M. Hall Lamp Company, Detroit, Mich. Lamp-front frame. No. 54,823; Apr. 13; v. 273; p. 341.
Anti-Automobile Thief Association of America. (See McIntyre, Edward F., assignor.)
Antrim, William D., assignor to Welsbach Company, Gloucester City, N. J. Gas-stove radiant. No. 55,231; May 25; v. 274; p. 769.
Arata, Angelo N., L. S., and J. J., San Anselmo, Calif. Direction-indicator. No. 54,573; Mar. 9; v. 272; p. 322.
Arata, Joseph J. (See Arata, Angelo N., L. S., and J. J.)
Arata, Louis S. (See Arata, Angelo N., L. S., and J. J.)
Arch Crown Mfg. Co. (See Wittstein, Charles T., assignor.)
Archer, John, San Jose, Calif. Badge. No. 55,736; July 13; v. 276; p. 356.
Arden-Bennett Corporation. (See Bennett, Clarence W., assignor.)
Arden Manufacturing Corporation. (See Bennett, Clarence W., assignor.)
Armorcord Rubber Company, The. (See McLane, Joseph A., assignor.)
Armstrong, Nancy V., Toronto, Ontario, Canada. Outer garment. No. 56,331; Oct. 5; v. 279; p. 133.
Arnold, Edwin E., assignor to Iron City Products Company, Pittsburgh, Pa. Lifting-jack. Nos. 55,015–16; May 4; v. 274; pp. 136–7.
Arnold, Edwin E., assignor to Iron City Products Company, Pittsburgh, Pa. Lifting-jack. Nos. 55,232–3; May 25; v. 274; p. 770.
Aronson, Louis V. (See Harris, Alexander, assignor.)
Aronson, Louis V., Newark, N. J. Combined cigar-lighter and inkstand. No. 56,093; Aug. 17; v. 277; p. 548.
Aronson, Louis V., Newark, N. J. Kazoo. No. 56,114; Aug. 24; v. 277; p. 733.
Aronson, Louis V., Newark, N. J. Temperature-indicator for automobile-radiators. No. 56,578; Nov. 16; v. 280; p. 553.
Art In Buttons, Inc. (See Hallauer, Charles, assignor.)
Artcraft Metal Stamping Corporation. (See Sipsky, Norman, assignor.)
Artificial Daylighting Company. (See Macbeth, Norman, assignor.)
Ashley, Frank M., Brooklyn, N. Y. Inkstand. No. 54,824; Apr. 13; v. 273; p. 341.
Ashland Tire & Rubber Company, The. (See Breitenstein, Arthur L., assignor.)
Association of Army and Navy Stores. (See Victor, David E., assignor.)
Associated Silver Company. (See Lasher, Thomas B., assignor.)
Athens Shipbuilding Corporation. (See Case, John E., assignor.)
Atherly, Harry C., San Francisco, Calif. Lamp-stand. No. 55,737; July 13; v. 276; p. 356.
Atherley, Harry C. and James E., San Francisco, Calif. Lamp-stand. No. 56,798; Dec. 28; v. 281; p. 744.
Atherly, James E. (See Atherly, Harry C. and J. E.)

Digitized by Google

Alphabetical list of patentees of designs—Continued.

Atlantic Comb Works. (See Sidenberg, Arthur M., assignor.)
Austin, Arthur O., Barberton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Insulator. No. 56,262; Sept. 14; v. 278; p. 313.
Auto Truck Transfer Company, The. (See Buchwald, Henry C., assignor.)
Automatic Recording Safe Company, The. (See Fisher, Charles, assignor.)
Automatic Sprinkler Company of America. (See Hamilton, John R., assignor.)
Autoset Clamp Company, The. (See Townsend, Charles R., assignor.)
Ayala, Federico. (See Campderá, R., and Ayala.)
Bachman, Carl, Newark, N. J. Combination-tool. No. 54,365; Feb. 10; v. 271; p. 299.
Bachmayer, Joseph J. (See Saxton, A. H., and Bachmayer.)
Bacigalupi, Alfred, San Francisco, Calif. Playing-card. No. 55,583; July 6; v. 276; p. 155.
Badgley, Edna H., Springfield, Mo. Toy wagon. Nos. 55,838–9; July 20; v. 276; p. 548.
Baechtold, Herman, New York, N. Y. Lace. No. 56,332; Oct. 5; v. 279; p. 133.
Baier, Frank R., assignor to O. M. Burton, Chicago, Ill. Toy car. Nos. 55,009–12; Apr. 27; v. 273; p. 770.
Bailey, Mark W., New York, N. Y. Liquid-projecting device. No. 55,017; May 4; v. 274; p. 137.
Bailey, William J., Cleveland, Ohio. Help-self counter. No. 55,584; July 6; v. 276; p. 155.
Bailey, William J., Cleveland, Ohio. Help-self counter and display-cabinet. No. 56,263; Sept. 14; v. 278; p. 313.
Bairnsfather, Bruce, Bishopton, Stratford-upon-Avon, England. Motor-car mascot or ornament. No. 54,494; Feb. 17; v. 271; p. 499.
Baker, Stephen D., New York, N. Y. Wall-post. Nos. 54,574–5; Mar. 9; v. 272; p. 322.
Baker, Stephen D., New York, N. Y. Towel-bar. No. 55,354; June 1; v. 275; p. 157.
Bakstad, Johan R., assignor to Holden & White, Inc., Chicago, Ill. Electric heater. Nos. 56,408–11; Oct. 26; v. 279; p. 684.
Balda, Joseph O., Newark, Ohio, assignor to Central Glass Works, Wheeling, W. Va. Glass goblet or similar article. Nos. 55,355–59; June 1; v. 275; p. 157.
Ball, George E., Bridgeport, Conn., assignor to Whiting Manufacturing Company, New York, N. Y. Teapot or similar article of hollow ware. No. 55,738; July 13; v. 276; p. 356.
Barber, William J. (See Kerr, H. E., and Barber.)
Barbers Electric Specialty Company, The. (See Coffman, Samuel M., assignor.)
Barden, Clifford A., Wakeman, Ohio. Child's riding-car. No. 55,234; May 25; v. 274; p. 770.
Barnes, John, Valders, Wis. Combination-tool. No. 54,825; Apr. 13; v. 273; p. 842.
Barney, James E., New York, assignor to Pioneer Products, Incorporated, Malone, N. Y. Rubber sole-pad for boots and shoes. Nos. 55,114–16; May 11; v. 274; p. 357.
Barrows, Donald S., Rochester, N. Y. Draft-yoke. No. 56,491; Nov. 2; v. 280; p. 141.
Barthels Manufacturing Company. (See Wiberley, Frank, assignor.)
Bartholomew, Gilbert A., assignor to The Noble Heater Company, Fort Wayne, Ind. Footrest auto-heater casing. No. 56,579; Nov. 16; v. 280; p. 553.
Bartlett, Louis T., Wellesley Hills, Mass. Roll, matrix, die, or similar article. No. 54,826; Apr. 13; v. 273; p. 842.
Bartley, Alfred P., Oakland, Calif. Range. No. 56,492; Nov. 2; v. 280; p. 141.
Bartsch, Alfred H., assignor to American Bosch Magneto Corporation, Springfield, Mass. Armature of a magneto-electric machine. No. 54,827; Apr. 13; v. 273; p. 842.
Barwell, Charles, S. W., London, England. Bottle. No. 56,733; Dec. 14; v. 281; p. 367.
Basulo, Pedro M., New York, N. Y. Statuette. No. 56,333; Oct. 5; v. 279; p. 133.
Bassett, Anna R. W., Norwood, Pa. Flag, banner, pennant, emblem, or article of similar nature. No. 55,235; May 25; v. 274; p. 770.
Bassett, Elisha T., Sparrows Point, Md. Automobile-body. No. 56,412; Oct. 26; v. 279; p. 685.
Bassett, George F., and Company. (See Tatler, Edgar L., assignor.)
Bastedo, Helen Russell, New York, N. Y. Insignia or badge. No. 56,799; Dec. 28; v. 281; p. 744.
Basten, Otto, assignor to Sterling Tire Corporation, Rutherford, N. J. Wheel-tire. No. 54,576; Mar. 9; v. 272; p. 322.
Batavia and New York Wood Working Company, The. (See Honeck, Henry, assignor.)
Batcheller, George E., Forest Hills, N. Y. Automobile-tire. No. 55,585; July 6; v. 276; p. 156.
Bates Manufacturing Company. (See Lloyd, Frederic, assignor.)
Bates, Wells S. (See Hufford, E. C., and Bates.)
Baudet, George A., New York, N. Y., assignor to The Baudet Manufacturing Company, Woonsocket, R. I. Combined pressure gage and regulator casing. No. 55,500; June 22; v. 275; p. 778.
Baudet Manufacturing Company, The. (See Baudet, George A., assignor.)
Bauer, Martha V., Washington, D. C. Friendship-token. No. 55,447; June 15; v. 275; p. 565.
Baum, Charles, Brooklyn, N. Y. Snap-fastener. Nos. 56,686–7; Nov. 30; v. 280; p. 963.
Beach, H. D., Company. (See Stetson, John P., assignor.)
Becherer, George, St. Louis, Mo. Heel-plate. No. 55,971; Aug. 10; v. 277; p. 330.
Beck, Ernest T., assignor to International Silver Co., Meriden, Conn. Spoon, fork, or similar article. Nos. 56,215–16; Aug. 31; v. 277; p. 936.
Becker, Frederick L., Chicago, Ill. Upholstering-pin. No. 56,580; Nov. 16; v. 280; p. 553.
Becker, Johannes P., Berkeley, Calif. Auto signal-light. No. 55,739; July 13; v. 276; p. 356.
Becker, Smith & Page. (See Ainsworth, Albert, assignor.)
Becker, Smith & Page. (See Roehlin, William F., assignor.)
Beckman, Francis X., assignor to American Can Company, New York, N. Y. Talcum-powder box. No. 56,264; Sept. 14; v. 278; p. 314.
Beckwith, William C., Chicago, Ill. Phonograph-cabinet. No. 55,405; June 8; v. 275; p. 364.
Becolas, Miltiades A., St. Louis, Mo. Condiment-holder. No. 55,360; June 1; v. 275; p. 158.
Behn, Guido G., assignor to Essex Motors, Detroit, Mich. Radiator-casing for automobiles. No. 54,828; Apr. 13; v. 273; p. 842.
Beiswanger, John, assignor to Gill Brothers Company, Steubenville, Ohio. Lamp-chimney. No. 54,577; Mar. 9; v. 272; p. 322.
Beiswanger, John, assignor to Gill Brothers Company, Steubenville, Ohio. Cake-plate. No. 56,334; Oct. 5; v. 279; p. 133.
Beiswanger, John, assignor to Gill Brothers Company, Steubenville, Ohio. Utility-tray. No. 56,335; Oct. 5; v. 279; p. 134.
Beiswanger, John, assignor to Gill Brothers Company, Steubenville, Ohio. Bean-pot and cover., No. 56,336; Oct. 5; v. 279; p. 134.
Belden, Edward H., assignor to Industrial Research Corporation, Toledo, Ohio. Automobile splash-board. No. 56,094; Aug. 17; v. 277; p. 548.
Belden, Russell D., Marion, Ohio. Tire-casing. No. 55,586; July 6; v. 276; p. 156.
Belfry, Michael. (See Sedell, C. H., Whelan, and Belfry.)
Bellis, John R., Hackettstown, N. J. Button. No. 55,018; May 4; v. 274; p. 137.
Belott, Patsy, Clarksburg, W. Va. Clock-case. No. 55,972; Aug. 10; v. 277; p. 330.
Belpedio, Jobby, Bridgeport, Conn. Talking-machine cabinet. No. 55,448; June 15; v. 275; p. 566.
Belz, Edward P., Athens, Wis. Chain-trace link. No. 55,117; May 11; v. 274; p. 357.
Benedict, Harriet M., Waupaca, Wis. Meat-tenderer. No. 56,549; Nov. 9; v. 280; p. 353.
Benedict, T. N., Mfg. Co. (See Saunders, Albert F., assignor.)
Benjamin Electric Manufacturing Company. (See Benjamin, Reuben B., assignor.)
Benjamin, Jules H. (See Mertz, Otto L., assignor.)
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Plug-cluster. No. 55,973; Aug. 10; v. 277; p. 330.
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Plug-cluster. No. 56,721; Dec. 7; v. 281; p. 164.
Benjamin, Schuyler, Gloversville, assignor to Louis Meyers & Son, New York, N. Y. Glove. No. 54,578; Mar. 9; v. 272; p. 323.
Bennet, Harold W., Evanston, Ill. Clock-casing. No. 55,019; May 4; v. 274; p. 137.
Bennett, Clarence W., assignor to Arden Manufacturing Corporation, New York, N. Y. Toy aeroplane. No. 54,885; Apr. 20; v. 273; p. 569.
Bennett, Clarence W., assignor to Arden-Bennett Corporation, New York, N. Y. Toy automobile. No. 56,800; Dec. 28; v. 281; p. 744.
Bennici, John, assignor to Eagle Wood Turning Company, Chicago, Ill. Lamp shade or globe. No. 56,689; Nov. 30; v. 280; p. 963.
Bennie, George E., Nashville, Tenn. Tire-tread. No. 55,236; May 25; v. 274; p. 77.
Benson, Ivar, Seattle, Wash. Tone-chamber for phonographs. No. 55,361; June 1; v. 275; p. 158.
Benson, Ivar, Seattle, Wash. Phonograph-cabinet. No. 55,362; June 1; v. 275; p. 159.
Bent, George H. (See Cheney, Forest, assignor.)
Benvenuti, Julius D., assignor to M. Moran, San Francisco, Calif. Doll. No. 55,020; May 4; v. 274; p. 137.
Berg, Harrison L. Everett, Mass. Fender for automobiles. No. 55,237; May 25; v. 274; p. 770.
Berge, Joseph, assignor to Champion Ignition Company, Flint, Mich. Speedometer face-plate. Nos. 55,740–1; July 13; v. 276; p. 357.
Berge, Joseph, assignor to Champion Ignition Company, Flint, Mich. Speedometer face-plate. No. 55,974; Aug. 10; v. 277; p. 330.
Bergeron, Lisle, assignor to Johnson Biscuit Company, Sioux City, Iowa. Candy piece. No. 54,717; Mar. 23; v. 272; p. 684.

Digitized by Google

Bergman, Victor F. (See Koropp, L., and Bergman.)
Berk, William, assignor to American Auto Lamp Company, Inc., New York, N. Y. Auto tail-lamp. No. 55,021; May 4; v. 274; p. 137.
Berkey, Charles A., Highland Park, Mich. Badge, button, or emblem. No. 56,115; Aug. 24; v. 277; p. 733.
Bernstein, Abram, New York, N. Y. Insignia, badge, or emblem. No. 56,337; Oct. 5; v. 279; p. 134.
Bernstein, Solomon B., Brooklyn, N. Y. Doll. No. 55,840; July 20; v. 276; p. 548.
Bernstein, Victor, Brooklyn, N. Y. Doll. No. 55,841; July 20; v. 276; p. 549.
Berry, Edgar H., New York, N. Y. Demarcation-border to be impressed on stationery. No. 54,366; Feb. 10; v. 271; p. 299.
Berry, Louis J., and H. Smith, Yale, Okla. Key-ring. No. 56,116; Aug. 24; v. 277; p. 734.
Berry, Nella E., Buffalo, N. Y. Nail-buffer. No. 55,466; June 8; v. 275; p. 364.
Berwick, George H., Hampstead, England. Carving-dish. No. 55,238; May 25; v. 274; p. 771.
Bess, Gustavus, Portland, Oreg. Statue. No. 55,546; June 29; v. 275; p. 976.
Best, William N., Brooklyn, N. Y. Button, badge, watch-charm, or locket. No. 54,978; Apr. 27; v. 273; p. 764.
Bethlehem Steel Company. (See Lachman, Maurice, assignor.)
Betts Sole Protector Company. (See Betts, William H., assignor.)
Betts, William H., assignor to Betts Sole Protector Company, St. Louis, Mo. Sole-protector. No. 54,718; Mar. 23; v. 272; p. 684.
Bickley, Everett H., Philadelphia, Pa. Power-pulley. No. 54,579; Mar. 9; v. 272; p. 323.
Bierbach, Carl F., Rochester, N. Y. Egg-cup. No. 54,367; Feb. 10; v. 27[illegible] p. 299.
Biette, Henry C., Pittsburgh, Pa. Crystal coffee or tea service. No. 55,501; June 22; v. 275; p. 773.
Biflex Products Company. (See Pancoast, W. G., and Grotenhuis, assignors.)
Bigelow Hartford Carpet Company. (See Elliot, William A., assignor.)
Bigelow Hartford Carpet Company. (See McCabe, William F., assignors.)
Bigelow Hartford Carpet Company. (See Remlen, Charles F., assignor.)
Bigelow Hartford Carpet Company. (See Sauer, Emil G., assignor.)
Bigelow Hartford Carpet Company. (See Speck, James G., assignor.)
Bigelow Hartford Carpet Company, The. (See Spring, William A., assignor.)
Bigelow Hartford Carpet Company. (See Vetter, Ignatius J., assignor.)
Billings, Cecil M., Brooklyn, assignor to Delmore Manufacturing Co., Inc., New York, N. Y. Motor-vehicle. No. 54,368; Feb. 10; v. 271; p. 299.
Bilott, Carmine, Larimer, Pa. Burial-casket container. No. 55,407; June 8; v. 275; p. 364.
Biltwell Tire & Rubber Company, The. (See Trump, Elno H., assignor.)
Bippart, Griscom & Osborn. (See Grasmuk, Henry, assignor.)
Bisbing, Charles F. (See Weinberg, I. H., and Bisbing.)
Bitterman, Simon, *et al.* (See John, Charles E., assignor.)
Bixler, Henry B., Akron, assignor to The Chillicothe Tire and Rubber Company, Chillicothe, Ohio. Tire-tread. No. 56,217; Aug. 31; v. 277; p. 936.
Blabon, George W., Company, The. (See Cartwright, Frank, assignor.)
Black, Robert C., Dunnellon, Fla. Automobile-radiator ornament. Nos. 54,369–70; Feb. 10; v. 271; p. 300.
Blackmarr, Frank H., Chicago, Ill. Cigarette-case. No. 54,979; Apr. 27; v. 273; p. 764.
Blackmon, Charles D. (See Smith, J. H., and Blackmon.)
Blair, James B., assignor of one-half to F. B. Owens, Decatur, Ill. Trail-marker. No. 55,022; May 4; v. 274; p. 137.
Blake, Allen H., Eloise, Mich. Tractor. No. 54,371; Feb. 10; v. 271; p. 300.
Blanck & Co. (See Davis, Elizabeth A., assignor.)
Blanck & Company. (See Davis, Elizabeth H., assignor.)
Blanck & Company. (See Kallman, William K., assignor.)
Blanck & Company. (See Kämalehto, Thyra O., assignor.)
Blanck & Company. (See Meyer, Felix, assignor.)
Blankinship, John S., Lynchburg, Va. Phonograph-cabinet. No. 55,363; June 1; v. 275; p. 159.
Blekre, Edgar O., Sioux City, Iowa. Elastic-tire tread. Nos. 54,521–3; Mar. 2; v. 272; pp. 134–5.
Blekre, Edgar O., Sioux City, Iowa. Elastic-tire tread. Nos. 54,580–3; Mar. 9; v. 272; p. 323.
Blekre, Edgar O., Sioux City, Iowa. Elastic-tire tread. Nos. 56,265–71; Sept. 14; v. 278; p. 314.
Blekre, Edgar O., Sioux City, Iowa. Elastic-tire tread. No. 56,734; Dec. 14; v. 281; p. 367.
Blickman, Saul, New York, assignor to Sophia Blickman, Brooklyn, N. Y. Bowl. No. 56,272; Sept. 14; v. 278; p. 315.
Blickman, Sophia (See Blickman, Saul, assignor.)
Bliss, Gustave E., Newark, N. J., and Fred Smart, New York, N. Y. Memorandum-paper holder. No. 56,581; Nov. 16; v. 280; p. 553.
Blocker Toy Manufacturing Company. (See Greenstreet, Milfred L., assignor.)
Blomquist, David W., Seattle, Wash. Service-pin. No. 54,585; Mar. 9; v. 272; p. 324.
Blood, Bryant H., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Gage-block. No. 54,584; Mar. 9; v. 272; p. 324.
Blood, Thomas G., Birmingham, England. Housemaid's box. No. 55,023; May 4; v. 274; p. 138.
Blue Bird Manufacturing Company. (See Meyer, William H., assignor.)
Blum, Albert, assignor to H. R. Mallinson & Co., Inc., New York, N. Y. Article of manufacture. No. 54,524; Mar. 2; v. 272; p. 135.
Bogen, David, New York, N. Y. Souvenir. No. 55,408; June 8; v. 275; p. 364.
Bogert, Clarence, Demarest, N. J. Bubble-blower. No. 55,409; June 8; v. 275; p. 365.
Bohannon, William F., Houston, Tex. Toy. No. 56,238; Oct. 5; v. 279; p. 134.
Bohlman, Ernest A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Substation telephone-support. No. 54,886; Apr. 20; v. 273; p. 569.
Bolling, John E., assignor to Carrier Engineering Corporation, New York, N. Y. Paper-holder. No. 55,547; June 29; v. 275; p. 977.
Bonney Vise & Tool Works. (See Durham, Joseph E., Jr., assignor.)
Bonwit, Carol and L. R., Baltimore, Md. Doll. No. 54,495; Feb. 17; v. 271; p. 499.
Bonwit, Lester R. (See Bonwit, Carol and L. R.)
Booth, Earl C., assignor to Holcomb & Hoke Manufacturing Company, Indianapolis, Ind. Sterilizing-cabinet. No. 54,829; Apr. 13; v. 273; p. 342.
Booth, Earl C., assignor to Holcomb & Hoke Manufacturing Company, Indianapolis, Ind. Vending-cabinet. No. 55,742; July 13; v. 276; p. 357.
Booth, Franklin. (See Macdonald, A. S., and Booth.)
Booth, Robert, assignor to Rex Motor Car Manufacturing Company, New Orleans, La. Automobile. No. 54,830; Apr. 13; v. 273; p. 342.
Borris, Morris, Brooklyn, N. Y. Tone-arm. No. 55,449; June 15; v. 275; p. 566.
Bosserman, H. H., administrator. (See Bosserman, Joseph F.)
Bosserman, Joseph F., deceased, Staunton, Va., H. H. Bosserman, administrator. Phonograph case or cabinet. No. 56,218; Aug. 31; v. 277; p. 936.
Boston Paper Manufacturing Co. (See Slayter, Henry S., assignor.)
Boston Rubber Shoe Company. (See Piper, Walter E., assignor.)
Both, Tonjes A., Stratford, assignor to The Connecticut Electric Manufacturing Company, Bridgeport, Conn. Three-pole entrance-switch base. No. 54,525; Mar. 2; v. 272; p. 135.
Both, Tonjes A., Stratford, assignor to The Connecticut Electric Manufacturing Company, Bridgeport, Conn. Two-wire double-branch panel-switch base. No. 54,526; Mar. 2; v. 272; p. 135.
Both, Tonjes A., Stratford, assignor to The Connecticut Electric Manufacturing Company, Bridgeport, Conn. Three to two wire double-branch panel-switch base. No. 54,527; Mar. 2; v. 272; p. 135.
Bowers, Thomas A., Brookline, Mass. Wire wheel. Nos. 54,586–8; Mar. 9; v. 272; p. 324.
Bowling Green Rubber Company, The. (See Greene, Charles W., assignor.)
Bowman, David W. (See Hinegardner, F. G., and Bowman.)
Bowman Hotel Corporation. (See Holland, Julian, assignor.)
Boyce, Cecil M., Westcliff-on-Sea, Essex, England. Air-pump-nozzle connection. No. 55,975; Aug. 10; v. 277; p. 330.
Boyce, Harrison H., Forest Hills, N. Y. Combined motor-vehicle radiator-cap and temperature-indicating instrument. No. 55,502; June 22; v. 275; p. 773.
Boyd, Fred C., assignor to The Faraday Co., New Haven, Conn. Electric heater. No. 54,887; Apr. 20; v. 273; p. 570.
Boye Needle Company, The. (See Flannery, John L., Jr., assignor.)
Boyer, Harry, *et al.* (See Williams, Ardie, assignor.)
Boyle Needle Company, The. (See Carlson, Gustav A., assignor.)
Braden, James A., assignor to The Standard Parts Company, Cleveland, Ohio. Badge, emblem, or similar article. Nos. 55,548–51; June 29; v. 275; p. 977.
Bradfield, Fred E., Davenport, Iowa. Hood for automobiles. No. 54,372; Feb. 10; v. 271; p. 300.
Bradfield, Fred E., Davenport, Iowa. Automobile. No. 54,589; Mar. 9; v. 272; p. 324.
Bradfield, Fred E., Davenport, Iowa. Automobile-body. No. 54,590; Mar. 9; v. 272; p. 325.
Bradfield, Fred E., Davenport, Iowa. Radiator. No. 55,145; May 18; v. 274; p. 551.
Bradfield, Fred E., Davenport, Iowa. Rear-end portion of an automobile-body. No. 56,219; Aug. 31; v. 277; p. 937.
Bradley, Myles M., Flint, Mich. Badge, button, emblem, or article of similar nature. No. 56,690; Nov. 30; v. 280; p. 963.

Digitized by Google

Alphabetical list of patentees of designs—Continued.

Brady, John B., Somerset, Md. Pin. No. 55,410; June 8; v. 275; p. 365.
Braender, Walter P., Passaic, N. J. Automobile-tire. No. 54,373; Feb. 10; v. 271; p. 300.
Braender, Walter P., Passaic, N. J. Tire. No. 56,688; Nov. 30; v. 280; p. 963.
Brass Goods Mfg. Co. (See Brill, Hazel, assignor.)
Brasz, Arnold F., assignor to Waite Grass Carpet Company, Oshkosh, Wis. Grass rug. No. 54,719; Mar. 23; v. 272; p. 685.
Bratton, Elizabeth, Columbus, Ohio. Toy block. No. 55,587; July 6; v. 276; p. 156.
Breen, James M., Pelham, N. Y., assignor to Radium Dial Company, Pittsburgh, Pa. Luminous bead. No. 56,493; Nov. 2; v. 280; p. 142.
Breen, James M., Pelham, N. Y., assignor to Radium Dial Company, Pittsburgh, Pa. Luminous thumb-tacks. No. 56,445; Nov. 23; v. 280; p. 750.
Breitenstein, Arthur L., Akron, assignor to The Knox Tire & Rubber Company, Mount Vernon, Ohio. Vehicle-tire. No. 54,720; Mar. 23; v. 272; p. 685.
Breitenstein, Arthur L., Akron, assignor to The Ashland Tire & Rubber Company, Ashland, Ohio. Tire-tread. Nos. 55,146–7; May 18; v. 274; p. 551.
Breitenstein, Arthur L., Akron, assignor to The Ashland Tire & Rubber Company, Cleveland, Ohio. Vehicle-tire. Nos. 55,239–40; May 25; v. 274; p. 771.
Breitenstein, Arthur L., Akron, assignor to The Ashland Tire & Rubber Company, Ashland, Ohio. Tire-tread. No. 55,364; June 1; v. 275; p. 159.
Breitenstein, Arthur L., Akron, Ohio, assignor to World Tire Corporation, Chicago, Ill. Tire-tread. No. 55,411; June 8; v. 275; p. 365.
Breitenstein, Arthur L., Akron, Ohio, assignor to Wilson Rubber Company, Des Moines, Iowa. Automobile-tire tread. No. 55,842; July 20; v. 276; p. 549.
Breitenstein, Arthur L., Akron, assignor to The Ideal Tire & Rubber Company, Cleveland, Ohio. Vehicle-tire. No. 56,691; Nov. 30; v. 280; p. 963.
Brennan, John F., Williamsport, Pa. Automobile-tire rack. No. 55,552; June 29; v. 275; p. 977.
Bresloff, Charles, New York, N. Y. Electric-chandelier top. No. 55,241; May 25; v. 274; p. 771.
Bresloff, Charles, New York, N. Y. Electric-chandelier arm. No. 55,242; May 25; v. 274; p. 771.
Bretson, John G., assignor to The Phoenix Rubber Company, Akron, Ohio. Tire. No. 56,418; Oct. 26; v. 279; p. 685.
Breuss, William O., Port Clinton, Ohio. Tire-tread. No. 55,588; July 6; v. 276; p. 156.
Brill, Hazel, Brooklyn, assignor to Brass Goods Mfg. Co., New York, N. Y. Container. No. 56,096; Aug. 17; v. 277; p. 546.
Brintnall, Leslie C. (See Carey, Patricia M., assignor.)
Brintzenhofe, Otto, Cleveland, Ohio, assignor to Electric Vacuum Cleaner Company, Inc. Dust-bag of a suction-cleaner. No. 56,414; Oct. 26; v. 279; p. 685.
Brisse, William C., Detroit, Mich. Electric floor-lamp. No. 54,721; Mar. 23; v. 272; p. 685.
Bristol, George W., assignor of one-half to N. G. Jensen, Syracuse, N. Y. Phonograph-cabinet. No. 56,117; Aug. 24; v. 277; p. 734.
Brockman, Furn O., Rosedale, Kans. Doll figure. No. 54,886; Apr. 20; v. 273; p. 570.
Brooks, Bernie, St. Louis, Mo. Collar-fastener. No. 56,550; Nov. 9; v. 280; p. 354.
Brown, Bessie B., Raleigh, N. C. Toy jingle-hoop. No. 55,412; June 8; v. 275; p. 365.
Brown, David A., Philadelphia, Pa. Badge, emblem, or similar article. No. 54,722; Mar. 23; v. 272; p. 685.
Brown, Edmund N., San Francisco, Calif. Electric heater. Nos. 54,889–90; Apr. 20; v. 273; p. 570.
Brown, Edward F., Johnston, and J. E. Reed, North Providence, R. I. Radiator-core. No. 56,735; Dec. 14; v. 281; p. 367.
Brown, George W., Cape Elizabeth, Me., assignor of one-half to G. P. Donnelly, Portland, Me. Oil-burner. No. 54,874; Feb. 10; v. 271; p. 300.
Brown, Herbert W., Ashland, Ohio. Replacement unit for headlights. No. 55,243; May 25; v. 274; p. 771.
Brown, Lanville A., Kansas City, Mo. Bed. No. 55,928; Aug. 3; v. 277; p. 136.
Brown, Lloyd, Los Angeles, Calif., assignor to Silent Drama Syndicate, a trusteeship. Motion-picture camera or the like. No. 55,976; Aug. 10; v. 277; p. 330.
Brown, Lloyd, Los Angeles, Calif., assignor to Silent Drama Syndicate, a trusteeship. Supporting-frame for motion-picture machines. No. 55,977; Aug. 10; v. 277; p. 331.
Brown, Lloyd, Los Angeles, Calif., assignor to Silent Drama Syndicate, a trusteeship. Camera-case. No. 55,978; Aug. 10; v. 277; p. 331.
Brown, Lloyd, Los Angeles, Calif., assignor to Silent Drama Syndicate, a trusteeship. Magazine for motion-picture machines. No. 55,979; Aug. 10; v. 277; p. 331.
Brown, Myrtle P., Kansas City, Mo. Undergarment. No. 54,723; Mar. 23; v. 272; p. 685.
Brulé, Norbert, St. Barthélemi, Quebec, Canada. Dustpan. No. 54,891; Apr. 20; v. 273; p. 570.
Bruns, Alfred E. (See Humphrey, Clen S., assignor.)
Bruns, Alfred E., Brooklyn, N. Y. Powder-container. No. 54,591; Mar. 9; v. 272; p. 325.
Brunswick-Balke-Collender Company, The. (See Nystrom, Martin, assignor.)
Brunswick-Balke-Collender Company, The. (See Zork, David, assignor.)
Brush, Albert. (See Vories, Charles A., assignor.)
Buchwald, Henry C., assignor to The Auto Truck Transfer Company, Baltimore, Md. Automobile-body. No. 56,736; Dec. 14; v. 281; p. 367.
Buck, Helen M., New York, N. Y., assignor to The Camp Fire Girls, Inc., Woman's or miss's costume. No. 55,244; May 25; v. 274; p. 772.
Buckley, Warren B., Washington, D. C. Tire-tread. No. 54,592; Mar. 9; v. 272; p. 325.
Budd, Edward G., Manufacturing Company. (See Ledwinka, Joseph, assignor.)
Budd, Edward G., Manufacturing Company. (See Maise, Herman C., assignor.)
Buffalo Dental Manufacturing Company. (See Lewis, Theodore G., assignor.)
Buffalo Truck & Tractor Corporation. (See Oversmith, Elmer H., assignor.)
Bugbee, Henry, Concord, N. H. Doll. No. 56,582; Nov. 16; v. 280; p. 554.
Bugbee & Niles Company. (See King, Rufus, assignor.)
Bunting, James H., assignor to Susquehanna Silk Mills, N. Y. Textile fabric. Nos. 55,245–7; May 25; v. 274; p. 772.
Burchfield, Frank E., Derby, assignor to Shelton Tool & Machine Co., Shelton, Conn. Fork. No. 55,589; July 6; v. 276; p. 156.
Burjanek, Frank, assignor to Herbold Chair Co., Chicago, Ill. Bent-stock chair. No. 54,375; Feb. 10; v. 271; p. 301.
Burke, Katherine M., San Francisco, Calif. Statuette or doll. No. 54,593; Mar. 9; v. 272; p. 325.
Buriew, Gilderoy O., Newark, N. J. Tooth cleaning and polishing device. No. 54,980; Apr. 27; v. 273; p. 764.
Burns, Thomas C., and F. K. Huffman, assignors to Hayes Wheel Company, Jackson, Mich. Wheel-hub. No. 56,220; Aug. 31; v. 277; p. 937.
Burrows, Hiram L., San Francisco, Calif. Time-indicating device. No. 54,376; Feb. 10; v. 271; p. 301.
Burton Bros. & Co. (See Flint, Addison, assignor.)
Burton, Oliver M. (See Baier, Frank R., assignor.)
Buscavage, Simon, Shenandoah, Pa. Sacramental shrine. No. 56,590; July 6; v. 276; p. 156.
Buster Manufacturing Company. (See Case, Homer W., assignor.)
Cadillac Motor Car Company. (See Kiehler, Frederick, assignor.)
Calcagni, Romolo. (See Cusolito and Calcagni.)
Callander, Blanche R., Malone, N. Y. Corsage-bouquet holder. No. 54,594; Mar. 9; v. 272; p. 326.
Camp Fire Girls, The. (See Buck, Helen M., assignor.)
Campbell, Donald, assignor to Lyon & Healy, Chicago, Ill. Harp. No. 54,724; Mar. 23; v. 272; p. 685.
Campbell, Donald, assignor to Lyon & Healy, Chicago, Ill. Harp. Nos. 54,892–3; Apr. 20; v. 273; p. 570.
Campbell, James A., Chicago, Ill. Eyebrow-brush. No. 54,615; Apr. 6; v. 273; p. 125.
Campbell, Metzger & Jacobson. (See Ritscher, Charles H., assignor.)
Campbell, Peter F., Vinal Haven, Me. Tobacco-pipe. No. 54,831; Apr. 13; v. 273; p. 348.
Campderá, Ramon, and F. Ayala, Mexico, Mexico. Perfumery-bottle. No. 55,024; May 4; v. 274; p. 138.
Campling, Gilbert Limited. (See Campling, Gilbert, assignor.)
Campling, Gilbert, Purley, assignor to Gilbert Campling, Limited, London, England. Motor-scooter. No. 55,148; May 18; v. 274; p. 551.
Campling, Gilbert, Purley, England, assignor to Gilbert Campling, Limited, London, England. Frame for a motor-scooter. No. 56,551; Nov. 9; v. 280; p. 354.
Cardinet, Albert D., assignor to J. H. Edelen, Oakland, Calif. Ant-poison receptacle. No. 56,552; Nov. 9; v. 280; p. 354.
Carey, Patricia M., assignor to L. C. Brintall, Los Angeles, Calif. Doll. Nos. 54,595–6; Mar. 9; v. 272; pp. 325–6.
Carli, Addison B., assignor to Practical Tools Company, New York, N. Y. Wrench. No. 55,591; July 6; v. 276; p. 157.
Caris, Marcus J., and H. F. Prucha, Los Angeles, Calif. Cart. No. 55,743; July 13; v. 276; p. 357.
Carlson, Gustav A., assignor to the Boyle Needle Company, Chicago, Ill. Can-opener. No. 55,450; June 15; v. 275; p. 566.
Carlson, Gustave O., Wethersfield, Conn. Nail set. No. 54,894; Apr. 20; v. 273; p. 571.
Carraine, Eugene, Philadelphia, Pa. Game-board. No. 54,597; Mar. 9; v. 272; p. 326.
Carraine, Eugene, Philadelphia, Pa. Handbag. No. 55,451; June 15; v. 275; p. 566.
Carrier Engineering Corporation. (See Bolling, John E., assignor.)
Carter, Jessie M., Baltimore, Md. Portable wrap-hanger. No. 56,839; Oct. 5; v. 279; p. 184.
Cartwright, Frank, Trenton, N. J., assignor to The George W. Blabon Company, Philadelphia, Pa. Floor-cloth. Nos. 56,494–521; Nov. 2; v. 280; pp. 142–6.
Cascade Tire and Rubber Company. (See Mart, John W., assignor.)
Case, Homer W., assignor to Buster Manufacturing Company, Pittsburgh, Pa. Toy vehicle. No. 56,415; Oct. 26; v. 279; p. 685.

Digitized by Google

Alphabetical list of patentees of designs—Continued.

Case, John E., assignor to Athens Shipbuilding Corporation, New York, N. Y. Burial-casket. No. 56,096; Aug. 17; v. 277; p. 548.

Case, Willard T., New Brunswick, N. J., assignor to Deltox Grass Rug Company, Oshkosh, Wis. Grass mat. Nos. 55,929–35; Aug. 3; v. 277; pp. 136–7.

Cashner, Roy C., Kansas City, Mo. Toy vehicle. No. 56,522; Nov. 2; v. 280; p. 146.

Cassidy Company. (See Farkas, Morris, assignor.)

Central Glass Works. (See Baida, Joseph O., assignor.)

Central Oil & Gas Stove Company. (See White, Fred E., assignor.)

Chalupa, Emil, New York, N. Y. Furniture-caster. No. 56,583; Nov. 16; v. 280; p. 554.

Chamberlin, Frederick G., Faith, Norfolk, England. High boot. No. 54,895; Apr. 20; v. 273; p. 571.

Chamberlin, Frederick G., Faith, Norfolk, England. Legging. No. 54,896; Apr. 20; v. 273; p. 571.

Champane, George J., Beachmont, Mass. Sounding-post tool. No. 55,365; June 1; v. 275; p. 159.

Champion Ignition Company. (See Berge, Joseph, assignor.)

Champion Spark Plug Company. (See Nason, George B., assignor.)

Chance, Albert B., Centralia, Mo. Anchor-rod. No. 56,118; Aug. 24; v. 277; p. 734.

Chance, Albert B., Centralia, Mo. Anchor-rod eye. No. 56,273; Sept. 14; v. 278; p. 315.

Chance, Roy L. (See Harris, R. E., and Chance.)

Chapman, Earle E., assignor to Miller-Chapman Company, Los Angeles, Calif. Vehicle-shackle. No. 54,877; Feb. 10; v. 271; p. 301.

Chapman, John G., Port Washington, assignor to Sanford Narrow Fabric Co., New York, N. Y. Edging. Nos. 54,859–61; Jan. 20; v. 270; p. 459.

Charest, Ludger, Auburn, Me. Moccasin. No. 54,897; Apr. 20; v. 273; p. 571.

Charles William Stores. (See Ehrlicher, Victor, assignor.)

Charles William Stores, The. (See Holbrook, Rufus H., assignor.)

Charlier, Alfred T., Luxembourg, Wis. Combination cap and bottle opener, box-opener, and cigar-cutter. No. 55,843; July 20; v. 276; p. 549.

Chase Companies, Inc., The. (See Sperry, Henry T., assignor.)

Chase, Winslow W., Washington, D. C. Therapeutic vacuum apparatus. No. 55,452; June 15; v. 275; p. 506.

Cheeks, Arthur, Birmingham, Ala. Smoker's stand. No. 56,221; Aug. 31; v. 277; p. 937.

Cheley, Frank H., Denver, Colo., assignor to The International Committee of The Young Men's Christian Association, New York, N. Y. Badge, emblem, insignia, or article of similar nature for a Young Men's Christian Association sweater front or for like personal wear. No. 55,936; Aug. 3; v. 277; p. 137.

Cheney, Forest, Grand Rapids, Mich., assignor of one-third to G. H. Bent, Chicago, Ill. Bell for a brass-wind instrument. No. 55,149; May 18; v. 274; p. 551.

Chesnutt, John L., assignor to The Service Caster & Truck Company, Kansas City, Mo. Swivel-caster. No. 55,980; Aug. 10; v. 277; p. 331.

Chicago Surgical & Electrical Company. (See Lidberg, Tiodolf, assignor.)

Chillicothe Tire and Rubber Company, The. (See Bixler, Henry B., assignor.)

Chordas, Julius W., Los Angeles, Calif. Automobile-body. No. 56,222; Aug. 31; v. 277; p. 937.

Christian, Horace B., Richmond, Va. Bottle. No. 54,878; Feb. 10; v. 271; p. 301.

Christopher, Arthur B., assignor to Christopher Engineering Company, St. Louis, Mo. Child's rocker. No. 55,458; June 15; v. 275; p. 566.

Christopher Engineering Company. (See Christopher, Arthur B., assignor.)

Christy, James, Cleveland, Ohio. Tire. No. 54,725; Mar. 28; v. 272; p. 686.

Christy, James, Cleveland, assignor to The Portage Rubber Co., Barberton, Ohio. Tire. No. 54,496; Feb. 17; v. 271; p. 500.

Christy, James, Cleveland, assignor to The Portage Rubber Co., Barberton, Ohio. Tire. No. 54,598; Mar. 9; v. 272; p. 326.

Chmielewski, Jósef, New Britain, Conn. Combination cane and umbrella light. No. 56,737; Dec. 14; v. 281; p. 367.

Churchill, William, Corning, N. Y., assignor to Corning Glass Works. Transparent cooking-dish. Nos. 54,898–9; Apr. 20; v. 273; p. 572.

Churchill, William, Corning, N. Y., assignor to Corning Glass Works. Transparent cooking-dish. No. 55,366; June 1; v. 275; p. 160.

Cigol, Frank A., Paterson, N. J. Toy ball. No. 55,413; June 8; v. 275; p. 365.

Cirelli, Francesco, Philadelphia, Pa. Sound-conducting device for talking-machines. No. 55,025; May 4; v. 274; p. 138.

Clancy, Timothy A., Hartford, Conn. Emblem, banner, badge, pin, or similar article. No. 55,844; July 20; v. 276; p. 549.

Clark, Thomas E., Detroit, Mich. Combined electric fan and lamp. No. 54,832; Apr. 13; v. 273; p. 348.

Clarke, Walter H., Elyria, Ohio. Tire. No. 54,599; Mar. 9; v. 272; p. 326.

Clarke, Walter H., Elyria, Ohio. Tire-tread. No. 55,026; May 4; v. 274; p. 138.

Clay, Edwin, Reno, Nev. Hammer. No. 56,553; Nov. 9; v. 280; p. 354.

Clayes, Margaret, San Francisco, Calif. Flower-holder. No. 54,879; Feb. 10; v. 271; p. 301.

Cleveland Candle Company, The. (See Moyer, George A., assignor.)

Cleveland Gas Burner & Appliance Co. (See Kerr, H. E., and Barber, assignors.)

Cleveland Gas Burner & Appliance Co. (See Kerr, Harry E., assignor.)

Cleveland Rubber Corporation Company, The. (See Harris, Archer H., assignor.)

Clinton Manufacturing Company. (See Sheffner, John C., assignor.)

Clodfelter, Howard T., Bruno, Minn. Toilet-powder and jewelry container. No. 54,883; Apr. 13; v. 273; p. 348.

Cloutier, Noe, Attleboro, Mass. Shade-bracket. No. 56,528; Nov. 2; v. 280; p. 147.

Cluett, Peabody & Co. (See Hurd, Hubbard F., assignor.)

Coatsworth, Frank E. (See Wotherspoon, J. R., and Coatsworth.)

Cochran Mfg. & Forging Company. (See Scheffler, William F., assignor.)

Cochrane, James P., Edinburgh, Scotland. Pad for the soles of boots and shoes. Nos. 54,600–1; Mar. 9; v. 272; p. 326.

Codish, George, Brooklyn, N. Y. Sandal-upper. No. 56,801; Dec. 28; vol. 281; p. 745.

Cody, George F. (See Floriot, E. C., and Cody.)

Coffman, Samuel M., Kansas City, Mo., assignor to The Barbers Electric Specialty Company. Hair-cutting-machine frame. No. 56,223; Aug. 31; v. 277; p. 937.

Cohen, Henry I., assignor to Liberty Star Company, Minneapolis, Minn. Emblem or badge. No. 56,340; Oct. 5; v. 279; p. 134.

Cohn, Goldwater Company. (See Hirsh, Milton A., assignor.)

Cohn, Harry, Brooklyn, assignor to Robert Findlay Manufacturing Co., New York, N. Y. Frame for shades for electric lights. No. 54,714; Mar. 16; v. 272; p. 509.

Cohn, Harry, assignor to Hygrade Lighting Fixture Corporation, Brooklyn, N. Y. Arm comprising a lighting-fixture part. No. 55,937; Aug. 3; v. 277; p. 137.

Cohn, Harry, assignor to Reliance Metal Spinning & Stamping Co., Inc., Brooklyn, N. Y. Lighting-fixture canopy. No. 55,938; Aug. 3; v. 277; p. 138.

Cohn, Harry, assignor to Reliance Metal Spinning & Stamping Co., Inc., Brooklyn, N. Y. Socket-cover. No. 55,939; Aug. 3; v. 277; p. 138.

Cohn, Harry, assignor to Reliance Metal Spinning & Stamping Co., Inc., Brooklyn, N. Y. Bracket-oval. No. 56,049; Aug. 10; v. 277; p. 344.

Cohn, Harry, assignor to Reliance Metal Spinning & Stamping Co., Inc., Brooklyn, N. Y. Lighting-fixture oval plate. No. 56,050; Aug. 10; v. 277; p. 344.

Cohn, Harry, assignor to Reliance Metal Spinning & Stamping Co., Inc., Brooklyn, N. Y. Lighting-fixture shower-plate. No. 56,051; Aug. 10; v. 277; p. 344.

Cole, Edward P., assignor to Cole Manufacturing Company, Chicago, Ill. Range-top. No. 54,602; Mar. 9; v. 272; p. 326.

Cole, Edward P., assignor to Cole Manufacturing Company, Chicago, Ill. Range. Nos. 55,744–5; July 13; v. 276; p. 357.

Cole, Edward P., assignor to Cole Manufacturing Company, Chicago, Ill. Range-body. No. 55,746; July 13; v. 276; p. 358.

Cole, Edward P., assignor to Cole Manufacturing Company, Chicago, Ill. Warming-oven for a range. No. 55,747; July 13; v. 276; p. 358.

Cole, Edward P., assignor to Cole Manufacturing Company, Chicago, Ill. Stove-door or similar article. No. 55,748; July 13; v. 276; p. 358.

Cole, George F., assignor of three-eighths to J. G. McCall, Oakland, Calif. Ornamental figure for radiator-caps of automobiles. No. 55,981; Aug. 10; v. 277; p. 331.

Cole Manufacturing Co. (See Cole, Edward P., assignor.)

Collins, Jeffery N., *et al.* (See Hay, John E., assignor.)

Collins Safety Razor Company. (See Johnson, Henry H., assignor.)

Colomb, Charles F., West Hoboken, N. J., assignor to Wittnauer Co., New York, N. Y. Bridge-plate for watch-movements. No. 54,981; Apr. 27; v. 273; p. 764.

Columbia Graphophone Manufacturing Company. (See Scully, John J., assignor.)

Compania Nacional de Perfumeria. (See Dunnock, John L., assignor.)

Conneaut Metal Works. (See Lumley, Wilfrid, assignor.)

Connecticut Electric Manufacturing Company, The. (See Both, Tonjes A., assignor.)

Connor, George A., assignor to Norwood Novelty Co., Norwood, Ohio. Toy vehicle. No. 54,880; Feb. 10; v. 271; p. 301.

Connor, Martha, assignor to The Tin Decorating Company of Baltimore, Baltimore, Md. Sifter-top can or similar receptacle. Nos. 54,881–4; Feb. 10; v. 271; p. 302.

Digitized by Google

Alphabetical list of patentees of designs—Continued.

Connor, Martha H., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md. Sifter-top can or similar receptacle. No. 54,608; Mar. 9; v. 272; p. 327.
Connor, Martha H., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md. Sifter-top can or similar receptacle. Nos. 55,749–50; July 13; v. 276; p. 358.
Connor, Martha H., assignor to The Tin Decorating Company, Baltimore, Md. Talcum-tin. No. 56,274; Sept. 14; v. 278; p. 315.
Continental Machine and Foundry Company. (See Larsen, John M., assignor.)
Continental Sheffield Silver Co. (See Gaertner, Victor, assignor.)
Cook, Ernest C., Chicago, Ill. Phonograph-cabinet. Nos. 54,528–30; Mar. 2; v. 272; pp. 135–6.
Cook, Otis W., Monett, Mo. Electric-lamp bulb. No. 55,248; May 25; v. 274; p. 772.
Cook, Raymond D., Tulsa, Okla. Radiator-cap. No. 55,367; June 1; v. 275; p. 160.
Cook, Thomas R., Pittsburgh, Pa. Handle. No. 56,646; Nov. 23; v. 280; p. 750.
Cook, Thomas R., Pittsburgh, Pa. Battery-terminal. Nos. 56,647–8; Nov. 23; v. 280; pp. 750–1.
Cook, Thomas R., Pittsburgh, Pa. Terminal connector for secondary batteries. Nos. 56,649–50; Nov. 23; v. 280; p. 751.
Cook, Thomas R., Pittsburgh, Pa. Cover for secondary batteries. No. 56,651; Nov. 23; v. 280; p. 751.
Cook, Thomas R., Pittsburgh, Pa. Plate for secondary batteries. Nos. 56,652–3; Nov. 23; v. 280; p. 751.
Cook, Thomas R., Pittsburgh, Pa. Connecting-strap for secondary batteries. No. 56,654; Nov. 23; v. 280; p. 752.
Cook, Thomas R., Pittsburgh, Pa. Connector for secondary battery. No. 56,738; Dec. 14; v. 281; p. 367.
Cook, Thomas R., Pittsburgh, Pa. Clamp terminal-connector for secondary batteries. No. 56,739; Dec. 14; v. 281; p. 368.
Cook, Thomas R., Pittsburgh, Pa. Universal clamp terminal-connector for secondary batteries. No. 56,740; Dec. 14; v. 281; p. 368.
Cook, Thomas R., Pittsburgh, Pa. Vent-plug for secondary batteries. No. 56,741; Dec. 14; v. 281; p. 368.
Cooley, Catherine C., Omaha, Nebr. Doll. No. 55,503; June 22; v. 275; p. 774.
Cooper, Allyn R., Marshalltown, Iowa. Handle for muffler-valves. No. 55,846; July 20; v. 276; p. 550.
Copeland, Adolph. (See Thomsen, Max, assignor.)
Coplan, Harry, Norfolk, Va., assignor to Leviola Talking Machine Sales Corporation. Phonograph-cabinet. No. 54,531; Mar. 2; v. 272; p. 136.
Corcoran-Victor Company, The. (See Ryder, Charles D., assignor.)
Corcos, Joseph. (See Evans, F., and Corcos.)
Cordley, Henry G., Glen Ridge, N. J. Liquid-dispenser. No. 56,692; Nov. 30; v. 280; p. 964.
Corey, Gus, Philadelphia, Pa. Toy lamp-post. Nos. 56,416–17; Oct. 26; v. 279; pp. 685–6.
Corey, Harry R., Brooklyn, assignor to American Can Company, New York, N. Y. Talcum-powder box. No. 54,604; Mar. 9; v. 272; p. 327.
Corning Glass Works. (See Churchill, William, assignor.)
Cornish, Harry S., Chicago, Ill. Draft-arm for liquid-dispensing apparatus. No. 55,940; Aug. 3; v. 277; p. 138.
Corns, Frank V. (See Talbot, C. L., and Corns.)
Corry, Grace, New York, N. Y. Doll. No. 55,594; July 6; v. 276; p. 157.
Corson, Lance S., Colorado Springs, Colo. Pennant. No. 56,070; Aug. 10; v. 277; p. 347.
Corwel, Joseph, Bellows Falls, Vt. Scrubbing-brush. No. 56,584; Nov. 16; v. 280; p. 554.
Crossman, Charles T., Attleboro, Mass. Ring, emblem, or article of similar nature. No. 54,605; Mar. 9; v. 272; p. 327.
Cottrell, Marie P., Mount Vernon, N. Y. Doll. No. 56,693; Nov. 30; v. 280; p. 964.
Cox Brass Mfg. Company. (See Cox, Theodore M., assignor.)
Cox, Theodore M., assignor to Cox Brass Manufacturing Company, Albany, N. Y. Automobile-buffer. Nos. 56,224–6; Aug. 31; v. 277; p. 937.
Crampton, Alfred H., Stockton, Calif. Combination hammer, can-punch, and ice-pick. No. 55,592; July 6; v. 276; p. 157.
Crawford McGregor and Canby Company, The. (See Mattern, George W., assignor.)
Crisenberry, Benjamin F., Indianapolis, Ind. Food-masher. No. 56,119; Aug. 24; v. 277; p. 734.
Crockett, Albert S., New York, N. Y. Communication-board. No. 55,593; July 6; v. 276; p. 157.
Cross, Harry E., Rockton, Ill. Automobile-frame. No. 55,454; June 15; v. 275; p. 567.
Cross, Harry E., Rockton, Ill. Automobile-body. No. 55,845; July 20; v. 276; p. 549.
Crow, Donald F., Omaha, Nebr. Vehicle-tire. No. 55,414; June 8; v. 275; p. 365.
Crowell, Frank S., assignor to The Western Gas Fixture Co., Toledo, Ohio. Article of manufacture. No. 54,811; Mar. 30; v. 272; p. 888.
Crowell, Frank S., assignor to The Edward N. Riddle Co., Toledo, Ohio. Bowl for lighting-fixtures. No. 55,249; May 25; v. 274; p. 772.
Crowell, Frank S., assignor to The Edward N. Riddle Co., Toledo, Ohio. Aquarium-stand. Nos. 55,751–4; July 13; v. 276; p. 359.
Crowell, Frank S., assignor to The Edward N. Riddle Co., Toledo, Ohio. Wall-plate for lighting-fixtures. No. 56,052; Aug. 10; v. 277; p. 344.
Crowell, Frank S., assignor to The Edward N. Riddle Co., Toledo, Ohio. Ornamental candelabrum. No. 56,585; Nov. 16; v. 280; p. 554.
Crowell, Gilbert L., Jr., Arlington, N. J., assignor to Dominick & Haff, New York, N. Y. Handle for a spoon, fork, or similar article. Nos. 55,982–3; Aug. 10; v. 277; p. 332.
Curley, Terence F., Brooklyn, N. Y. Knife-sharpener. No. 56,227; Aug. 31; v. 277; p. 938.
Curran, Edward T., Detroit, Mich. Guard for radiators of motor-vehicles. No. 56,275; Sept. 14; v. 278; p. 316.
Curran, Joseph B., Jr., New York, N. Y. Emblem, brooch, button, fob, or similar article. No. 56,655; Nov. 23; v. 280; p. 752.
Curtin, Peter A., Buffalo, N. Y. Milk-bottle cap or stopper. No. 54,606; Mar. 9; v. 272; p. 327.
Curtiss, Glenn H., Buffalo, N. Y. Aeroplane. No. 55,504; June 22; v. 275; p. 774.
Cusolito, Antonio, and R. Calcagni, New York, N. Y. Phonographic cabinet. No. 54,385; Feb. 10; v. 271; p. 302.
Cutler, Clifford A., Buffalo, N. Y. Drawer-pull. No. 55,595; July 6; v. 276; p. 157.
Dandoy, John J. (See McDonnell, G. F., and Dandoy.)
Daniels, Lee E. (See Maechler, Walter, assignor.)
Daudy, Marc H., assignor to North American Lace Company, Philadelphia, Pa. Lace table-centerpiece. No. 54,386; Feb. 10; v. 271; p. 302.
Davidson, John H., Orono, Me. Badge. No. 56,694; Nov. 30; v. 280; p. 964.
Daving, Joseph, New York, N. Y. Watchcase or locket. Nos. 54,582–3; Mar. 2; v. 272; p. 136.
Davis, Benjamin H., Baltimore, Md. Game-board. No. 54,887; Feb. 10; v. 271; p. 303.
Davis, Earl M., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt-buckle frame. Nos. 55,150–55; May 18; v. 274; p. 552.
Davis, Earl M., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt-buckle frame. No. 55,250; May 25; v. 274; p. 773.
Davis, Elizabeth A., assignor to Blanck & Co., Inc., New York, N. Y. Lace. No. 54,816; Apr. 6; v. 273; p. 135.
Davis, Elizabeth A., assignor to Blanck & Company, Inc., New York, N. Y. Lace. No. 55,505; June 22; v. 275; p. 774.
Davis, Elizabeth A., assignor to Blanck & Company, Inc., New York, N. Y. Lace. No. 56,418; Oct. 26; v. 279; p. 686.
Davis, Elizabeth A., assignor to Blanck & Company, Inc., New York, N. Y. Lace. No. 56,802; Dec. 28; v. 281; p. 745.
Davis, James D., Dayton, Ohio. Badge. No. 54,726; Mar. 23; v. 272; p. 686.
Davis, Meyer, Chicago, Ill. Phonograph-cabinet. No. 54,982; Apr. 27; v. 273; p. 765.
Davis, Meyer, Chicago, Ill. Phonograph-cabinet. No. 55,415; June 8; v. 275; p. 366.
Day, Alfred, Philadelphia, Pa. Checker-board. No. 55,455; June 15; v. 275; p. 565.
Dayton, Charles H., Iowa City, Iowa. Bottle or jug. No. 54,834; Apr. 13; v. 273; p. 348.
Dayton Manufacturing Company, The. (See Hutchins, Rufus J., assignor.)
De Ford, Nancy H. H., *et al.* (See Malone, Leon S., assignor.)
De Holczer, Lewis, assignor to Zonta Tire and Rubber Company, Sioux City, Iowa. Elastic-tire tread. Nos. 54,624–5; Mar. 9; v. 272; p. 330.
De Kazarine, Serge. (See de Porohovchikova, M., and de Kazarine.)
De Lautreppe, Albert, and H. M. Mesrines, New York, N. Y. Medal. No. 55,027; May 4; v. 274; p. 138.
Le Leo, John, New York, N. Y. Toy flying-machine. No. 54,389; Feb. 10; v. 271; p. 303.
Delikat, Thomas, Newark, N. J. Spring support and hanger. No. 55,156; May 18; v. 274; p. 553.
Delikat, Thomas, Newark, N. J. Belt and trousers clamp. No. 55,368; June 1; v. 275; p. 160.
Delikat, Thomas, Newark, N. J. Combined hatpin and point-protector. No. 55,755; July 13; v. 276; p. 359.
Dell, Albert. (See Dell, William R., assignor.)
Dell, William R., assignor of one-half to A. Dell, Philadelphia, Pa. Can-opener. No. 55,984; Aug. 10; v. 277; p. 332.
Delmore Manufacturing Co. (See Billings, Cecil M., assignor.)
Delmore Manufacturing Co. (See Smith, Phineas M., assignor.)
Deltox Grass Rug Company. (See Case, Willard T., assignor.)
Demarest, W. Howard, Newark, N. J. Emblem, badge, ring, fob, or similar article. No. 54,388; Feb. 10; v. 271; p. 303.

Digitized by Google

Alphabetical list of patentees of designs—Continued.

Dommenge, Harry F., Jr., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 55,251; May 25; v. 274; p. 773.

Democracy Playing Card Company. (See Gaffney, James C., assignor.)

De Mott, Monroe V. W., New York, N. Y. Cake of soap. No. 54,390; Feb. 10; v. 271; p. 303.

Demuth, Alfred M., Chicago, Ill. Cooker. No. 54,607; Mar. 9; v. 272; p. 327.

Demuth, Alfred M., Chicago, Ill. Steam-distributer and baster for cooking apparatus. No. 54,885; Apr. 13; v. 273; p. 343.

Denmead, John W., Akron, Ohio. Elastic vehicle-tire. No. 54,534; Mar. 2; v. 272; p. 136.

Denmead, John W., Akron, Ohio. Elastic vehicle-tire. No. 55,416; June 8; v. 275; p. 366.

Denning, Patrick F., Cleveland, Ohio. Individual article-holder. No. 55,756; July 13; v. 276; p. 360.

De Porohovchikova, Mary, and S. de Kazarine, London, England. Dressed doll. Nos. 55,955–6; Aug. 3; v. 277; p. 141.

De Richelieu, William E., and A. D. Wagner, Philadelphia, Pa. Label for poison-bottles. No. 55,985; Aug. 10; v. 277; p. 332.

De Sibour, Jules H., Washington, D. C. Hatband. No. 54,812; Mar. 30; v. 272; p. 888.

De Sibour, Jules H., Washington, D. C. Hatband. No. 56,120; Aug. 24; v. 277; p. 734.

Desmond, Anna F. (See Halstead, Hazel S., assignor.)

Desmond, Anna F. (See Helman, Jessie A., assignor.)

Desmond, Anna F., Los Angeles, Calif. Book-end. No. 56,341; Oct. 5; v. 279; p. 135.

Desmond, Anna F., Los Angeles, Calif. Incense-burner. Nos. 56,342–3; Oct. 5; v. 279; p. 135.

Devaney, Thomas H., Longbranch, N. J. Boiler-tube plug. No. 56,554; Nov. 9; v. 280; p. 354.

De Vries, Herman E., and C. C. Kusterer, Grand Rapids, Mich. Furniture-leg. No. 56,053; Aug. 10; v. 277; p. 344.

Diamond Match Company, The. (See Traute, Henry C., assignor.)

Di Carlo, Donato, Philadelphia, Pa. Sound-conducting device for talking-machines. No. 55,986; Aug. 10; v. 277; p. 332.

Dickens, John W., Fort Wayne, Ind. Fish-bait. No. 54,391; Feb. 10; v. 271; p. 303.

Dickinson, Fredrick S., New York, N. Y. Tire-casing. No. 54,608; Mar. 9; v. 272; p. 327.

Dickinson, Herbert T., Denver, Colo. Emblem, badge, or button. No. 55,847; July 20; v. 276; p. 550.

Diederich, Hunt, New York, N. Y. Electric lamp and fan. No. 54,392; Feb. 10; v. 271; p. 303.

Dieges, Charles J., New York, N. Y. Cuff-button. No. 54,535; Mar. 2; v. 272; p. 137.

Dignard, Micheal. (See Pelland, Hermas, assignor.)

Dixon, Frederick A., Los Angeles, Calif. Glass tile. No. 56,344; Oct. 5; v. 279; p. 135.

Dixon, Joseph H., Wellington, Ohio. Juvenile vehicle. No. 55,417; June 8; v. 275; p. 366.

Diacich, Andrew, Columbus, Ohio. Pick. No. 56,054; Aug. 10; v. 277; p. 345.

Dobbins, James F., Brooklyn, N. Y. Combined pepper, salt, and napkin holder. No. 54,393; Feb. 10; v. 271; p. 304.

Doble, William A., San Francisco, Calif. Power-driven delivery-vehicle. No. 54,609; Mar. 9; v. 272; p. 328.

Dochtermann, George T., Passaic, N. J. Spark-plug. No. 56,586; Nov. 16; v. 280; p. 554.

Dodge, Frank W., New Haven, Conn. Bathing cap or similar article. No. 54,901; Apr. 20; v. 273; p. 572.

Dodge, Frank W., assignor to The Seamless Rubber Company, Inc., New Haven, Conn. Bathing-cap or similar article. No. 54,900; Apr. 20; v. 273; p. 572.

Dodge, Merle R., Rock Hill, Kans. Tool. No. 54,394; Feb. 10; v. 271; p. 304.

Dominick & Haff. (See Crowell, Gilbert L., Jr., assignor.)

Donaldson, Albert S. (See Schultz, Raymond A., assignor.)

Donnelly, George P. (See Brown, George W., assignor.)

Dornn, Robert L., Chicago, Ill. Oil-burner. No. 55,028; May 4; v. 274; p. 138.

Doren, Arthur J. (See Meerse and Doren.)

Dorer, Primus O. (See Rogers, R. H., and Dorer.)

Dorey, William A., Newark, Ohio, assignor to Holophane Glass Company, New York, N. Y. Prismatic reflector. No. 56,656; Nov. 23; v. 280; p. 752.

Dorward, James L., San Francisco, Calif. Necktie-holder. No. 55,553; June 29; v. 275; p. 978.

Douglas, Charles G., Philadelphia, Pa. Medal, badge, button, pin, ring, flag, banner, pennant, or article of similar nature. No. 56,587; Nov. 16; v. 280; p. 554.

Dowling, Delia G., New York, N. Y. Tray. No. 55,369; June 1; v. 275; p. 160.

Downe, Emma M. (See King, Sidney, assignor.)

Downes, Elmer N., assignor to J. & D. Tire Company, Charlotte, N. C. Non-skid tire-tread. No. 55,506; June 22; v. 275; p. 774.

Drake, John, West Orange, N. J. Badge, button, or similar article. No. 55,252; May 25; v. 274; p. 773.

Dreyfach, Max D., New York, N. Y. Article of manufacture—namely, a pillow-top or article of similar nature. No. 56,121; Aug. 24; v. 277; p. 735.

Duane, Harry B., Brookline, assignor to The Touraine Company, Boston, Mass. Wrapping-band or article of similar nature. No. 54,836; Apr. 13; v. 273; p. 342.

Dubish, Mike, Chicago, Ill. Curtain and shade hanger. No. 55,157; May 18; v. 274; p. 553.

Dueber, Albert M., assignor to The Dueber Watch Case Manufacturing Company, Canton, Ohio. Watch-bow. No. 55,029; May 4; v. 274; p. 139.

Dueber Watch Case Manufacturing Company, The. (See Dueber, Albert M., assignor.)

Duede, Carl H., Stuart, Iowa. Aeroplane-coaster. No. 56,803; Dec. 28; v. 281; p. 745.

Duepner, Charles A., Minneapolis, Minn. Lighting-fixture. No. 56,742; Dec. 14; v. 281; p. 368.

Duersten, William E., New Castle, Pa. Non-skid tire. Nos. 55,118–19; May 11; v. 274; p. 357.

Duersten, William E., New Castle, Pa. Non-skid tire. No. 55,507; June 22; v. 275; p. 775.

Duersten, William E., New Castle, Pa. Non-skid tire. No. 55,987; Aug. 10; v. 277; p. 332.

Duffin, Charles R. (See Kinney and Duffin.)

Duffy, John A. (See Van Wagner, L. M., and Duffy.)

Dulczewski, Sigmund A., Buffalo, N. Y. Clock-case. No. 55,120. May 11; v. 274; p. 358.

Dunbar, Irwin, and F. Norris, Kirkville, Mo. Toy. No. 54,902; Apr. 20; v. 273; p. 572.

Duncan, Jefferson E. (See Kaupmann, Frederick, Jr., assignor.)

Duncan, John A., Jr., St. Joseph, Mo. Button. No. 55,941; Aug. 3; v. 277; p. 138.

Dunlop Rubber Company, The. (See Paull, Wallace H., assignor.)

Dunnock, John L., Baltimore, Md., assignor to Compania Nacional de Perfumeria, Habana, Cuba. Bottle. No. 55,988; Aug. 10; v. 277; p. 333.

Durham, Joseph E., Jr., Allentown, assignor to Bonney Vise & Tool Works, Inc., Philadelphia, Pa. Pair of pliers. No. 54,516; Feb. 24; v. 271; p. 653.

Durham, William E., assignor to The Emory Rubber Sole Co., Inc., Norfolk, Va. Shoe-heel. No. 55,158; May 18; v. 274; p. 553.

Eagle Wood Turning Company. (See Benuici, John, assignor.)

Eaglesfield, Frederick R., Niles, Mich., assignor to Kawneer Manufacturing Company, Niles, Mich. Automobile-bumper. No. 56,055; Aug. 10; v. 277; p. 345.

Earl, Charles M., Detroit, Mich. Beverage-dispensing device. No. 55,121; May 11; v. 274; p. 358.

Easby, Thomas B., assignor to New York Stamping Company, Brooklyn, N. Y. Crumb set. Nos. 55,757–8; July 13; v. 276; p. 360.

Eaton, Richard M., Niagara Falls, N. Y. Adapter-head for flash-lights. No. 55,253; May 25; v. 274; p. 773.

Ebel, John, assignor to Susquehana Silk Mills, New York, N. Y. Textile fabric. No. 55,370; June 1; v. 275; p. 160.

Ebeling, Phillip, Washington, Pa., assignor to Imperial Glass Company, Bellaire, Ohio. Article of glassware. No. 55,759; July 13; v. 276; p. 360.

Eberhard Faber Pencil Co. (See Pfous, Frank, assignor.)

Eberhardt, Paul, Palisade, N. J., assignor to Patchogue Manufacturing Company, New York, N. Y. Lace. No. 55,030; May 4; v. 274; p. 139.

Ecker, Joseph, New York, and E. Goldberg, Coney Island, N. Y. Game-board. No. 55,418; June 8; v. 275; p. 366.

Eckrode, Clement E., Newark, N. J. Tire-tread. No. 54,536; Mar. 2; v. 272; p. 137.

Eclipse Stove Company, The. (See Taylor, Thomas E., assignor.)

Eddy, Robert C., Milwaukee, Wis. Rubber ball. No. 54,903; Apr. 20; v. 273; p. 572.

Edelen, J. H. (See Cardinet, Albert D., assignor.)

Eden, Harold W., Chicago, Ill. Washing-machine or similar device. No. 55,371; June 1; v. 275; p. 160.

Edison Storage Battery Company. (See Salisbury, Myron D., assignor.)

Edwards, Charles T. (See Johnston, Clifford E., assignor.)

Egan, James H., Philadelphia, Pa. Vending-machine. No. 55,848; July 20; v. 276; p. 550.

Ehrlicher, Victor, assignor to Charles William Stores, Inc., Brooklyn, N. Y. Tire. No. 56,122; Aug. 24; v. 277; p. 735.

Eisele, Adolphe, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 55,254–8; May 25; v. 274; p. 773.

Eisele, Adolphe, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 55,849–50; July 20; v. 276; p. 550.

Eisenbrown, George F., Reading, Pa. Tombstone. Nos. 56,276–9; Sept. 14; v. 278; p. 316

Eisenstein, Israel, New York, N. Y. Swagger-stick. No. 54,727; Mar. 23; v. 272; p. 686.

Ekman, Einar P., Chicago, Ill. Automobile-radiator ornament. No. 55,259; May 25; v. 274; p. 774.

Eldon, Charles H., Williamsport, Pa. Steering-wheel for vehicles. No. 55,456; June 15; v. 275; p. 567.

Electric Phonograph Corporation, The. (See Thorpe, Walter, assignor.)

Electric Vacuum Cleaner Company. (See Brintzenhofe, Otto, assignor.)

Electric Welding Machine Company. (See Harvey, S. M., and Lorenz, assignors.)

Digitized by Google

Alphabetical list of patentees of designs—Continued

Eley, Douglas H., and T. H. Ryan, assignors to The Emory Rubber Sole Co. Inc., Norfolk, Va. Rubber-shoe plate. No. 55,419; June 8; v. 275; p. 366.
Eley, Douglas H., and T. H. Ryan, assignors to The Emory Rubber Sole Co., Inc., Norfolk, Va. Rubber pad for shoe-soles. No. 56,345; Oct. 5; v. 279; p. 136.
Elgin National Watch Company. (See Goodrow, Francis A., assignor.)
Elgin National Watch Company. (See Williams, Lois M., assignor.)
Elison, Oliver, Wayne, Nebr. Phonograph-cabinet. No. 54,904; Apr. 20; v. 273; p. 572.
Elkonin, Aaron. (See Gorod, Nicholas, assignor.)
Elliot, William A., Yonkers, N. Y., assignor to Bigelow Hartford Carpet Company. Rug. No. 54,395; Feb. 10; v. 271; p. 304.
Ellis Resilient Wheel Corporation. (See Romney, Richard R., assignor.)
Elmquist, Charles L., St. Paul, Minn. Talking-machine cabinet. No. 55,989; Aug. 10; v. 277; p. 383.
Elton, Reuel W., secretary. (See Hellmich, Philip J., assignor.)
Elwood Meyers Company, The. (See Wise, George, assignor.)
Ely, John W. (See Anderson, R. N., and Robinson, assignors.)
Emery, Charles W., Philadelphia, Pa. Blower-casing. No. 56,419; Oct. 26; v. 279; p. 686.
Emory Rubber Sole Co., Inc., The. (See Durham, William E., assignor.)
Emory Rubber Sole Co., The. (See Eley, D. H., and Ryan, asignors.)
Empire Rubber & Tire Company. (See Murray, C Edward, Jr., assignor.)
Empire Tire & Rubber Corporation. (See Seabridge, William, assignor.)
Erdoes, Julius, and E. Sas, assignor to The Metallograph Corporation, New York, N. Y. Inkstand. No. 55,851; July 20; v. 276; p. 551.
Erickson, Claus E., Des Moines, Iowa. Thermometer. No. 55,760; July 13; v. 276; p. 361.
Ericson, Emile, Yonkers, assignor to Witcombe, McGeachin & Co., New York, N. Y. Article of manufacture. No. 54,905; Apr. 20; v. 273; p. 573.
Ernst, Frank F., and W. H. Gorman, assignors to Yale Novelty Company, Leominster, Mass. Doll's head. No. 56,588; Nov. 16; v. 280; p. 555.
Esch, Henry, Jr., Manitowoc, Wis. Combined collar-button and tie-slide or similar article. No. 55,761; July 13; v. 276; p. 361.
Essayan, Harold G., Brookline, Mass. Spoon. No. 55,031; May 4; v. 274; p. 139.
Essayan, Harold G., Brookline, Mass. Emblem, badge, stickpin, or similar article. No. 55,554; June 29; v. 275; p. 978.
Essayan, Harold G., Brookline, Mass. Ring. Nos. 55,555–9; June 29; v. 275; p. 978.
Esselmann, Louis H. (See Shalhoub, J., and Esselmann.)
Essex Motors. (See Behn, Guido G., assignor.)
Evans, Fred, and J. Corcos, assignors to said Corcos, New York, N. Y. Record-receiving card or article of similar nature. No. 54,610; Mar. 9; v. 272; p. 328.
Evans, H. C., & Company. (See Harris, Maurice E., assignor.)
Evans, Howard S., Pittsburgh, Pa. Glass cover for a dish. No. 56,228; Aug. 31; v. 277; p. 938.
Everett Machine & Manufacturing Company. (See Meits, Julius B., assignor.)
Everett, Ray H., New York, N. Y. Emblem, badge, or article of similar nature. No. 56,346; Oct. 5; v. 279; p. 136.
Ewald, Arno A., Oakfield, Wis. Casing for a combined air and water dispenser. No. 55,762; July 13; v. 276; p. 361.
Ewen, Mathias J., Jr., Evansville, Ind. Game-board. No. 56,420; Oct. 26; v. 279; p. 686.
Exeloid Company. (See Willis, Albert T., assignor.)
Ey, Victor, New York, N. Y. Doll. No. 56,657; Nov. 23; v. 280; p. 752.
Faas, William F., Cleveland, Ohio. Stand. No. 56,097; Aug. 17; v. 277; p. 548.
Faber, Eberhard, New York, N. Y. Rubber eraser-head for lead-pencils. No. 56,247; Sept. 7; v. 278; p. 136.
Faber, Eberhard, New York, N. Y. Rubber eraser-head for lead-pencils. No. 56,589; Nov. 16; v. 280; p. 555.
Fahys, Joseph, & Company. (See Harman, Charles W., assignor.)
Fairbanks, Dorothy, San Francisco, Calif. Doll. No. 54,728; Mar. 23; v. 272; p. 686.
Fairbanks, Ernest H., Merchantville, N. J. Phonographic-disk-record cabinet. No. 55,596; July 6; v. 276; p. 157.
Faraday Co., The. (See Boyd, Fred C., assignor.)
Farb, Pincus, Newark, N. J., assignor to Sonora Phonograph Corporation. Tone-arm. No. 54,396; Feb. 10; v. 271; p. 304.
Farkas, Morris, New York, assignor to Cassidy Company, Inc., Long Island City, N. Y. Lamp-stand. No. 56,421; Oct. 26; v. 279; p. 686.
Farley, Thomas R., Des Moines, Iowa. Flag, pennant, sign, emblem, or article of a similar nature. No. 54,537; Mar. 2; v. 272; p. 137.

Farmer, Albert J., Newark, N. J. Piston for combustion-engines. No. 56,347; Oct. 5; v. 279; p. 136.
Farr, Edward A., assignor to Foster, Merriam & Company, Meriden, Conn. Teakettle or similar article. No. 56,555; Nov. 9; v. 280; p. 354.
Faultless Rubber Company, The. (See Kaupman, Frederick, Jr., assignor.)
Fauser, Gustave M., assignor to Witcombe, McGeachin & Co., New York, N. Y. Article of manufacture. No. 54,906; Apr. 20; v. 273; p. 573.
Federal Motor Truck Company. (See Wright, Bernard F., assignor.)
Felger, F. & F., Inc. (See Felger, Frederick H., assignor.)
Felger, Frederick H., assignor to F. & F. Felger, Inc., Newark, N. J. Plate for mounting gems in jewelry. No. 55,597; July 6; v. 276; p. 158.
Ferdon, Guy W., Cresskill, N. J., assignor to Silver & Co., Brooklyn, N. Y. Egg-poacher. Nos. 55,598–9; July 6; v. 276; p. 158.
Ferguson, Clinton B., Newtonville, Mass. Combined candelabrum and electric terminal. No. 56,248; Sept. 7; v. 278; p. 136.
Fern, John, Cincinnati, Ohio, assignor to E. H. McConnell, trustee, Memphis, Tenn. Phonograph-case. No. 56,695; Nov. 30; v. 280; p. 964.
Fern, John A., Cincinnati, Ohio, assignor to E. H. McConnell, trustee, Memphis, Tenn. Talking-machine. Nos. 55,763–7; July 13; v. 276; p. 361.
Ferris, Henry L., assignor to Hunt, Helm, Ferris & Co., Harvard, Ill. Display-stand for drinking-fountains for stock. No. 56,804; Dec. 28; v. 281; p. 745.
Feuerlicht, James, New York, N. Y. Doll. No. 55,942; Aug. 3; v. 277; p. 138.
Fidelity Tire & Rubber Company. (See McConnell, George C., assignor.)
Fifer, William A., assignor to The Quincy Show Case Works, Quincy, Ill. Display-case. No. 56,348; Oct. 5; v. 279; p. 136.
Fifer, William A., assignor to The Quincy Show Case Works, Quincy, Ill. Display-case. No. 56,368; Oct. 5; v. 279; p. 139.
Findlay, Robert, Manufacturing Co. (See Cohn, Harry, assignor.)
Findlay, Robert, Manufacturing Co. (See Kostszewski, Stephen, assignor.)
Findlay, Robert, Manufacturing Co. (See Schwartz, Frederick, assignor.)
Finney, Elizabeth H., *et al.* (See Malone, Leon S., assignor.)
Fischer, William, New York, N. Y. Gem-setting. No. 55,260; May 25; v. 274; p. 774.
Fish, Oscar B., St. George, N. Y. Pen and pencil holder. No. 56,349; Oct. 5; v. 279; p. 136.
Fisher, Abraham C., New York, N. Y. Lady's vanity-case. No. 55,852; July 20; v. 276; p. 551.
Fisher, Charles, assignor to The Automatic Recording Safe Company, Chicago, Ill. Clock-bank case. Nos. 55,853–4; July 20; v. 276; p. 551.
Firth, Clarence, Indianapolis, Ind. China tableware article. No. 54,907; Apr. 20; v. 273; p. 573.
Fitz Gerald, Harold G., Los Angeles, Calif. Reflector. No. 55,457; June 15; v. 275; p. 567.
Flanders, A. H., Company. (See Flanders, Alice H., assignor.)
Flanders, Alice H., assignor to A. H. Flanders Company, Chicago, Ill. Woman's blouse. Nos. 54,397–403; Feb. 10; v. 271; pp. 304–5.
Flanders, Alice H., assignor to A. H. Flanders Company, Chicago, Ill. Woman's blouse. Nos. 54,497–503; Feb. 17; v. 271; pp. 500–1.
Flanders, Alice H., assignor to A. H. Flanders Company, Chicago, Ill. Woman's blouse. Nos. 54,538–46; Mar. 2; v. 272; pp. 137–8;
Flanders, Alice H., assignor to A. H. Flanders Company, Chicago, Ill. Woman's blouse. Nos. 54,729–31; Mar. 23; v. 272; pp. 686–7.
Flanders, Alice H., assignor to A. H. Flanders Company, Chicago, Ill. Woman's blouse. Nos. 54,837–9; Apr. 13; v. 273; p. 344.
Flanders, Alice H., assignor to A. H. Flanders Company, Chicago, Ill. Woman's blouse. Nos. 55,372–3; June 1; v. 275; p. 161.
Flanders, Alice H., assignor to A. H. Flanders Company, Chicago, Ill. Woman's blouse. Nos. 55,990–7; Aug. 10; v. 277; pp. 333–5.
Flanders, Alice H., assignor to A. H. Flanders Company, Chicago, Ill. Woman's blouse. Nos. 56,056–8; Aug. 10; v. 277; p. 345.
Flanders, Alice H., assignor to A. H. Flanders Company, Chicago, Ill. Woman's blouse. Nos. 56,805–7; Dec. 28; v. 281; p. 745.
Flannery, John L., Jr., assignor to The Boye Needle Company, Chicago, Ill. Needle-wrapper. No. 54,732; Mar. 23; v. 272; p. 687.
Flannery, Martin A., Boston, Mass., assignor to The Will & Baumer Company, Syracuse, N. Y. Votive-stand. No. 56,059; Aug. 10; v. 277; p. 345.
Fleming, Cordelia D., administratrix. (See Fleming, Thomas, C., assignor.)

Digitized by Google

Fleming, Thomas C., deceased; Cordelia D. Fleming, administratrix, Vancouver, British Columbia, Canada. Combined cabinet and refrigerator. No. 55,998; Aug. 10; v. 277; p. 335.
Flint, Addison, Hempstead, assignor to Burton Bros. & Co., New York, N. Y. Article of manufacture. Nos. 55,261–3; May 25; v. 274; p. 774.
Floriot, Edmond C., and G. F. Cody, New York, N. Y. Electrical heater. No. 56,743; Dec. 14; v. 281; p. 368.
Flynn, John H., Jr., Cincinnati, Ohio. Pulley-block. No. 55,508; June 22; v. 275; p. 775.
Follen, Thomas, La Fayette, Ind. Tire. No. 55,600; July 6; v. 276; p. 158.
Follmer, Willis M., New York, N. Y. Handle for umbrellas or parasols. No. 55,264; May 25; v. 274; p. 775.
Folmer, Charles A., Bernharts, Pa. Automobile-top. No. 55,855; July 20; v. 276; p. 551.
Forbes, Armitage, S. C., and H. R. P., Los Angeles, Calif. Table-bell. No. 56,280; Sept. 14; v. 278; p. 316.
Forbes, Harrye R. P. (See Forbes, Armitage S. C., and H. R. P.)
Forbes, Ligon S., New Orleans, La. Button, badge, or article of similar nature. No. 56,350; Oct. 5; v. 279; p. 136.
Forbes, Walter D., Oakland, Calif. Swimming-cap. No. 56,123; Aug. 24; v. 277; p. 735.
Forrest, Edwin, New York, N. Y. Combined phonograph case and cabinet. No. 55,159; May 18; v. 274; p. 553.
Fort Wayne Tire & Rubber Manufacturing Company. (See Kraft, Louis E., assignor.)
Foster, Gertrude, Chicago, Ill. Light-shade. No. 54,733; Mar. 23; v. 272; p. 687.
Foster, Merriam & Company. (See Farr, Edward A., assignor.)
Fox, Albert S., Chicago, Ill. Automobile-tire. No. 55,768; July 13; v. 276; p. 362.
Franck, Walter A., Louisville, Ky. Cigar-cutter. No. 55,509; June 22; v. 275; p. 775.
Frank, David C., assignor to Pelgram & Meyer, New York, N. Y. Article of manufacture. Nos. 56,351–2; Oct. 5; v. 279; pp. 136–7.
Frank, Julius E., St. Louis, Mo. Belt for personal wear. No. 56,353; Oct. 5; v. 279; p. 137.
Franklin, Charles B., assignor to Hendee Manufacturing Co., Springfield, Mass. Motorcycle-frame. No. 55,999; Aug. 10; v. 277; p. 335.
Frati, Alfred, assignor to Titus Blatter & Company, New York, N. Y. Textile fabric or article of similar nature. No. 54,734; Mar. 23; v. 272; p. 687.
Frederick, Samuel B., Detroit, Mich. Rubber heel. No. 56,000; Aug. 10; v. 277; p. 335.
Free, William C., Rockford, Ill. Sewing-machine cabinet. No. 54,840; Apr. 18; v. 273; p. 344.
Freed, Henry C., Philadelphia, Pa. Collar-stud. No. 55,458; June 15; v. 275; p. 567.
Freeman-Daughaday Co. (See Le Clair, Frank J., assignor.)
Freitag, Knud J. W., and H. D. Ainsworth, San Francisco, Calif. Pump-overflow pan. No. 54,611; Mar. 9; v. 272; p. 328.
French, Alice M., Indianapolis, Ind. Pin, emblem, or article of similar nature. No. 55,769; July 13; v. 276; p. 362.
French, Eli M., Chicago, Ill. Egg-testing appliance. No. 56,060; Aug. 10; v. 277; p. 346.
French, Ira L., assignor to The Mantle Lamp Company of America, Chicago, Ill. Bottle-stopper. No. 55,374; June 1; v. 275; p. 161.
French, Ira L., assignor to The Mantle Lamp Company of America, Chicago, Ill. Heat-insulated receptacle. No. 56,061; Aug. 10; v. 277; p. 346.
French, Ira L., assignor to The Mantle Lamp Company of America, Chicago, Ill. Serving-dish. No. 56,744; Dec. 14; v. 281; p. 369.
Frerichs, Frederick A., assignor to Horn & Brannen Manufacturing Co., Philadelphia, Pa. Electric candlestick. No. 56,124; Aug. 24; v. 277; p. 735.
Frerichs, Frederick A., assignor to Horn & Brannen Manufacturing Co., Philadelphia, Pa. Electric candelabrum. No. 56,125; Aug. 24; v. 277; p. 735.
Frerichs, Frederick A., assignor to Horn & Brannen Manufacturing Co., Philadelphia, Pa. Electric floor-lamp. No. 56,126; Aug. 24; v. 277; p. 736.
Frerichs, Frederick A., assignor to Horn & Brannen Manufacturing Co., Philadelphia, Pa. Electric bridge-lamp. Nos. 56,127–8; Aug. 24; v. 277; p. 736.
Frerichs, Frederick A., assignor to Horn & Brannen Manufacturing Co., Philadelphia, Pa. Electric table-lamp. No. 56,129; Aug. 24; v. 277; p. 736.
Frerichs, Frederick A., assignor to Horn & Brannen Manufacturing Co., Philadelphia, Pa. Electric chandelier. No. 56,130; Aug. 24; v. 277; p. 737.
Frerichs, Frederick A., assignor to Horn & Brannen Manufacturing Co., Philadelphia, Pa. Electric wall-bracket. Nos. 56,131–2; Aug. 24; v. 277; p. 737.
Frerichs, Frederick A., assignor to Horn & Brannen Manufacturing Co., Philadelphia, Pa. Electric chandelier. No. 56,133; Aug. 24; v. 277; p. 737.
Frerichs, Frederick A., assignor to Horn & Brannen Manufacturing Co., Philadelphia, Pa. Electric ceiling-fixture. No. 56,134; Aug. 24; v. 277; p. 737.
Frerichs, Frederick A., assignor to Horn & Brannen Manufacturing Co., Philadelphia, Pa. Electric floor-lamp. No. 56,249; Sept. 7; v. 278; p. 136.
Fricke, William A., Oak Park, Ill. Phonograph-cabinet. No. 54,404; Feb. 10; v. 271; p. 305.
Friedberger-Aaron Manufacturing Company. (See Goodman, Samuel N., assignor.)
Friedley-Voshardt Co. (See Wellman, Lester R., assignor.)
Friedman, Alexander, assignor to Pennsy Watch Company, Pittsburgh, Pa. Top plate for watch-movements. No. 55,265; May 25; v. 274; p. 775.
Frieland, Harry, assignor to Vogue Manufacturing Co., Newark, N. J. Brassière. No. 56,592; Nov. 16; v. 280; p. 555.
Frishman, David, New York, N. Y. Ash-holder. Nos. 56,590–1; Nov. 16; v. 280; p. 555.
Frishman, David, New York, N. Y. Cigar and ash holder. No. 56,745; Dec. 14; v. 281; p. 369.
Fritz, Joseph L., Philadelphia, Pa. Cover for vent-boxes. No. 54,735; Mar. 23; v. 272; p. 687.
Fry, Walter L., New Rochelle, N. Y. Combined trousers and boots. No. 55,856; July 20; v. 276; p. 552.
Fuhrmann, Henry W. A., Alhambra, Calif. Toy automobile. No. 55,032; May 4; v. 274; p. 139.
Fuld, William, Baltimore, Md. Movable member of a talking-board. No. 56,001; Aug. 10; v. 277; p. 335.
Fuld, William, Baltimore, Md. Movable member of a talking-board. No. 56,658; Nov. 23; v. 280; p. 752.
Fuller, Eugene, Providence, R. I. Lacing-tip. No. 55,375; June 1; v. 275; p. 161.
Fuller, Franz A., assignor to The J. E. Mergott Company, Newark, N. J. Card-holder. No. 55,266; May 25; v. 274; p. 775.
Fuller, Franz A., assignor to The J. E. Mergott Company, Newark, N. J. Inkstand. No. 55,857; July 20; v. 276; p. 552.
Fybush, Moses F., Los Angeles, Calif. Cabinet for a talking-machine. No. 55,033; May 4; v. 274; p. 139.
Gabeline, Jacob B., Burlington, assignor to Standard Four Tire Company, Keokuk, Iowa. Automobile-tire. No. 55,122; May 11; v. 274; p. 358.
Gabeline, Jacob B., Burlington, assignor to Standard Four Tire Company, Keokuk, Iowa. Automobile-tire. No. 55,459; June 15; v. 275; p. 567.
Gaertner, Victor, New York, assignor to Continental Sheffield Silver Co., Brooklyn, N. Y. Article of hollow tableware. Nos. 55,160–4; May 18; v. 274; pp. 553–4.
Gaertner, Victor, New York, N. Y., assignor to Continental Sheffield Silver Co., Brooklyn, N. Y. Bread-tray or similar article. No. 55,770; July 13; v. 276; p. 362.
Gaertner, Victor, New York, N. Y., assignor to Continental Sheffield Silver Co., Brooklyn, N. Y. Gallery-mount for hollow tableware. Nos. 55,771–2; July 13; v. 276; p. 363.
Gaertner, Victor, New York, N. Y., assignor to Continental Sheffield Silver Co., Brooklyn, N. Y. Article of hollow tableware. Nos. 55,773–6; July 13; v. 276; p. 363.
Gaertner, Victor, New York, assignor to Continental Sheffield Silver Co., Brooklyn, N. Y. Fruit-knife holder or similar article. No. 56,229; Aug. 31; v. 277; p. 938.
Gaertner, Victor, New York, assignor to Continental Sheffield Silver Co., Brooklyn, N. Y. Ear for a handle of bowls or similar articles. No. 56,230; Aug. 31; v. 277; p. 939.
Gaffney, James C., New York, N. Y., assignor to Democracy Playing Card Company, Incorporated. Playing-card. No. 54,612; Mar. 9; v. 272; p. 328.
Gaffney, James C., New York, N. Y., assignor to Democracy Playing Card Company, Incorporated. Playing-card. No. 54,736; Mar. 23; v. 272; p. 687.
Gaffney, James C., New York, N. Y., assignor to Democracy Playing Card Company, Incorporated. Playing-card. No. 55,943; Aug. 3; v. 277; p. 138.
Gage, Henry P., and Emilio Pascucci, Corning, N. Y. Light cover glass. No. 55,777; July 13; v. 276; p. 364.
Gagnon, Bernard E., Bridgeport, Conn. Game-board. No. 55,858; July 20; v. 276; p. 552.
Gamble, William C., Mount Vernon, N. Y., assignor to General Optical Company. Paper-weight. No. 55,510; June 22; v. 275; p. 775.
Garbell, Max, Chicago, Ill. Frame for typewriting-machines. No. 56,002; Aug. 10; v. 277; p. 335.
Gardner, Alva D., Norwalk, Ohio. Lens for glasses and spectacles. No. 54,405; Feb. 10; v. 271; p. 306.
Garford Manufacturing Company, The. (See Kunkle, George R., assignor.)
Garnett, James C. M., Manchester, England. Flag. No. 55,034; May 4; v. 274; p. 139.
Garrett & Company. (See Weller, Hubert R., assignor.)
Gartner, Alfred, Washington, D. C. Spinning toy. No. 54,407; Feb. 10; v. 271; p. 306.
Gatchell, Frederick D., assignor to The Texas Company, New York, N. Y. Oil-can. No. 54,983; Apr. 27; v. 273; p. 765.
Gates, Charles C., Denver, Colo. Rubber tire. No. 54,408; Feb. 10; v. 271; p. 306.
Gauss, Harry T., Chicago, Ill. Tire. No. 55,420; June 8; v. 275; p. 366.
Geigand, Anthony W. and J. J., Buffalo, N. Y. Nut-cracker. No. 55,460; June 15; v. 275; p. 568.
Geigand, Joseph J. (See Geigand, Anthony W. and J. J.)

Digitized by Google

Alphabetical list of patentees of designs—Continued.

Gellinger, Frederic, Washington, D. C. Automobile-lock. No. 56,135; Aug. 24; v. 277; p. 737.
General Electric Company. (See Gosling, Joseph W., assignor.)
General Electric Company. (See O'Neil, James A., assignor.)
General Electric Company. (See Valley, John J., assignor.)
General Optical Company. (See Gamble, William C., assignor.)
General Tire and Rubber Company, The. (See Iredell, Robert, assignor.)
Genesy, Walter A., San Francisco, Calif. Child's romper. No. 56,354; Oct. 5; v. 279; p. 137.
Gerbasi, Francis C., Brooklyn, N. Y. Lady's belt. No. 56,355; Oct. 5; v. 279; p. 137.
Gerbasi, Francis C., Brooklyn, N. Y., assignor to Gerbasi Manufacturing Company, Inc., New York, N. Y. Lady's belt. Nos. 56,659–66; Nov. 23; v. 280; pp. 753–4.
Gerbasi Manufacturing Company. (See Gerbasi, Francis C., assignor.)
Ghiglieri, William, San Francisco, Calif. Lamp-case. No. 56,746; Dec. 14; v. 281; p. 369.
Gibson, Francis W., West Roxbury, Mass. Display-rack. No. 55,778; July 13; v. 276; p. 364.
Gilbert, A. C., Company, The. (See Gilbert, Alfred C., assignor.)
Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Toy wheelbarrow. No. 55,376; June 1; v. 275; p. 161.
Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Toy-vehicle wheel. No. 56,136; Aug. 24; v. 277; p. 738.
Gilbert Campling, Limited. (See Campling, Gilbert, assignor.)
Gilfillan Bros. Smelting & Refining Company. (See Howard, Earl H., assignor.)
Gill Brothers Company. (See Beiswanger, John, assignor.)
Gill, Paul S., Cleveland, Ohio. Flag, pennant, sign, emblem, or an article of a similar nature. No. 54,737; Mar. 23; v. 272; p. 688.
Gillam, Ephraim, Columbus, Ohio. Toy wheelbarrow. No. 56,003; Aug. 10; v. 277; p. 336.
Gillbee, Manuel A. T., Philadelphia, Pa. Article of manufacture. Nos. 56,593–600; Nov. 16; v. 280; pp. 555–7.
Gillbee, Manual A. T., Philadelphia, Pa. Article of manufacture. No. 56,808; Dec. 28; v. 281; p. 746.
Gillen, Albert P., Chicago, Ill. Piano-lamp. No. 54,613; Mar. 9; v. 272; p. 328.
Gillespie, Gordon F., Los Angeles, Calif. Doll. No. 55,511; June 22; v. 275; p. 775.
Gillette, Maurice, New York, N. Y. Store-front. No. 54,908; Apr. 20; v. 273; p. 573.
Gillette Safety Razor Company. (See Thompson, Ralph E., assignor.)
Gillinder Brothers. (See Gillinder, Edwin B., assignor.)
Gillinder, Edwin B., assignor to Gillinder Brothers, Port Jervis, N. Y. Lighting-globe. Nos. 55,779–80; July 13; v. 276; p. 364.
Gillman, Eugene, and L. Siegel, Seattle, Wash. Child's romper. No. 56,231; Aug. 31; v. 277; p. 939.
Gilmer, Weir B., Savannah, Ga. Electric stove. No. 54,738; Mar. 23; v. 272; p. 688.
Gilsey, Harry, Cincinnati, Ohio. Ring. Nos. 54,547–8; Mar. 2; 272; p. 139.
Gilson, J. E., Company. (See Gilson, John, Sr., assignor.)
Gilson, John, Sr., assignor to J. E. Gilson Company, Port Washington, Wis. Weeder. No. 55,601; July 6; v. 276; p. 158.
Giroux, Leon M., New York, N. Y. Watch-stand. No. 55,035; May 4; v. 274; p. 140.
Giroux, Pierre E., Johnstown, N. Y. Slipper. No. 55,602; July 6; v. 276; p. 159.
Glassberg, Joseph, New York, N. Y. Bracket. No. 55,603; July 6; v. 276; p. 159.
Gleason, Homer E., Seattle, Wash. Lighting-fixture. No. 56,137; Aug. 24; v. 277; p. 738.
Gleason, Thomas C., Chicago, Ill. Charm, pin, flag, emblem, banner, pennant, pillow-top, or article of similar nature. No. 55,560; June 29; v. 275; p. 978.
Godley, Charles E., Detroit, Mich. Lamp. No. 56,098; Aug. 17; v. 277; p. 548.
Gohl, Adolph, assignor to The Lamon-Gohl Company, Chicago, Ill. Glass jar. No. 54,614; Mar. 9; v. 272; p. 328.
Goldberg, Elias. (See Ecker, J., and Goldberg.)
Goldenberg, Benjamin, assignor to E. I. Horsman & Aetna Doll Co., Inc., New York, N. Y. Doll. No. 55,561; June 29; v. 275; p. 979.
Goldman, Harold, New York, N. Y. Doll. Nos. 54,409–11; Feb. 10; v. 271; p. 306.
Goldsmith Publishing Company, The. (See Vanderkamp, John, assignor.)
Gonsky, Peter R., Chicago, Ill. Combination phonograph and lamp-standard. No. 54,984; Apr. 27; v. 273; p. 765.
Goodall, Harry H., Toledo, Ohio. Automobile-body. No. 54,549; Mar. 2; v. 272; p. 139.
Goodman, Samuel N., assignor to Friedberger-Aaron Manufacturing Company, Philadelphia, Pa. Lace trimming. No. 56,601; Nov. 16; v. 280; p. 557.
Goodrich, B. F., Company, The. (See Pierson, Robert M., assignor.)
Goodrich, B. F., Company, The. (See Tew, James D., assignor.)
Goodrow, Francis A., assignor to Elgin National Watch Company, Elgin, Ill. Hands of a timepiece. Nos. 55,781–6; July 13; v. 276; p. 365.
Goodrow, Francis A., assignor to Elgin National Watch Company, Elgin, Ill. Watch-dial. No. 56,099; Aug. 17; v. 277; p. 549.
Goodrow, Francis A., assignor to Elgin National Watch Company, Elgin, Ill. Watch-dial. Nos. 56,422–6; Oct. 26; v. 279; p. 687.
Gordon Electric Mfg. Co., The. (See Seltzer, Ira R., assignor.)
Gordon, Milton J., Weehawken, N. J. Embroidered art panel, banner, or flag. Nos. 54,909–10; Apr. 20; v. 273; p. 573.
Gordon Tire & Rubber Company, The. (See McKone, Charles W., assignor.)
Gorham Manufacturing Company. (See Ring, John H., assignor.)
Gorham Manufacturing Company. (See Staf, Axel H., assignor.)
Gorman, Daniel J., Philadelphia, Pa. Beverage-dispenser. No. 54,739; Mar. 23; v. 272; p. 688.
Gorman, William H. (See Ernst, F. F., and Gorman.)
Gorod, Nicholas, Brooklyn, assignor to A. Elkonin, New York, N. Y. Ring. No. 55,604; July 6; v. 276; p. 159.
Gosling, Joseph W., Schenectady, N. Y., assignor to General Electric Company. Canopy for a lamp-globe. Nos. 55,165–7; May 18; v. 274; p. 554.
Gosling, Joseph W., Schenectady, N. Y., assignor to General Electric Company, Band for a lamp-globe. No. 56,062; Aug. 10; v. 277; p. 346.
Goudy, Frederick W., Forest Hills Garden, N. Y., assignor to American Type Founders Company, Jersey City, N. J. Font of type. No. 55,267; May 5; v. 274; p. 776.
Gould, Gregory, McKinney, Tex. Article of manufacture. No. 56,356; Oct. 5; v. 279; p. 137.
Graf, Martin T., Buffalo, N. Y. Sharpener for knives. No. 56,250; Sept. 7; v. 278; p. 136.
Granberg, Albert J., San Francisco, Calif. Automobile-body. No. 54,615; Mar. 9; v. 272; p. 329.
Granz, Joseph, Duluth, Minn. Housing for motion-picture machines. No. 55,377; June 1; v. 275; p. 161.
Grasmuk, Henry, Orange, N. J., assignor to Bippart, Griscom & Osborn, Newark, N. J. Bracelet. Nos. 56,602–7; Nov. 16; v. 280; pp. 557–8.
Gray, Annie E., Philadelphia, Pa. Coat. No. 55,944; Aug. 3; v. 277; p. 139.
Gray, Leonard G., assignor to Walrus Manufacturing Company, Decatur, Ill. Refrigerator display-case. No. 56,556; Nov. 9; v. 280; p. 355.
Grayson, John H., Athens, Ohio. Gas-heater. No. 55,168; May 18; v. 274; p. 555.
Grayson, John H., Athens, Ohio. Gas-heater. No. 56,357; Oct. 5; v. 279; p. 137.
Grearson, Frederick A., assignor to Grearson & Lane Company, Barre, Vt. Monument. No. 54,911; Apr. 20; v. 273; p. 574.
Grearson & Lane Company. (See Grearson, Frederick A., assignor.)
Great Western Manufacturing Company. (See Lonn, Edward J., assignor.)
Greely Square Hotel Company. (See Hermelin, Astrid, assignor.)
Green, Edward E., San Francisco, Calif. Step-plate. No. 55,605; July 6; v. 276; p. 159.
Green, Edward E., San Francisco, Calif. Heel-rest. No. 56,809; Dec. 28; v. 281; p. 746.
Greenberg, Barnet, Chicago, Ill. Raincoat. No. 55,787; July 13; v. 276; p. 366.
Greene, Charles W., assignor to The Bowling Green Rubber Company, Toledo, Ohio. Tire. No. 55,606; July 6; v. 276; p. 159.
Greene, Frank R., Chicago, Ill. Casing for a vending-machine. No. 55,268; May 25; v. 274; p. 776.
Greene, Frank R., Chicago, Ill. Casing for a vending-machine. No. 56,251; Sept. 7; v. 278; p. 136.
Greene, Frederick E., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y. Trimming for an automobile-light or similar article of manufacture. Nos. 56,138–9; Aug. 24; v. 277; p. 738.
Greene, Frederick E., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y. Handle for an automobile-door lock or similar article of manufacture. Nos. 56,140–1; Aug. 24; v. 277; pp. 738–9.
Greene, Frederick E., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y. Trimming-plate for an automobile-door lock or similar article of manufacture. No. 56,142; Aug. 24; v. 277; p. 739.
Greene, Frederick E., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y. Plate for an electric switch or similar article of manufacture. No. 56,143; Aug. 24; v. 277; p. 739.
Greene, Frederick E., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y. Handle construction for an automobile-window regulator or similar article of manufacture. No. 56,144; Aug. 24; v. 277; p. 739.

Digitized by Google

Greene, Frederick E., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y. Handle for an automobile-door lock or similar article of manufacture. No. 56,145; Aug. 24; v. 277; p. 739.
Greene, Frederick E., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y. Trimming for an automobile domelight or similar article of manufacture. No. 56,146; Aug. 24; v. 277; p. 740.
Greene, Frederick E., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y. Plate for an electric switch or similar article of manufacture. No. 56,147; Aug. 24; v. 277; p. 740.
Greene, Frederick E., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y. Handle construction for an automobile-window regulator or similar article of manufacture. No. 56,148; Aug. 24; v. 277; p. 740.
Greenfield, Arthur L., Newark, N. J. Toy known as a go-beel. No. 55,036; May 4; v. 274; p. 140.
Greenstreet, Milfred L., assignor, by mesne assignments, to Blocker Toy Manufacturing Company, Maplewood, Mo. Toy chair. No. 55,607; July 6; v. 276; p. 159.
Griffin, John B., Newington, Conn. Novelty picture-bracelet. No. 55,788; July 13; v. 276; p. 366.
Griffith, Benjamin M., assignor to Pittsburgh Lamp, Brass & Glass Company, Pittsburgh, Pa. Toy magazine-gun. No. 56,063; Aug. 10; v. 277; p. 346.
Grill, Albert, Pittsburgh, Pa. Push and coaster car. No. 55,608; July 6; v. 276; p. 160.
Griswold, Manufacturing Company. (See Massing, Charles A., assignor.)
Grooms, Harmon E., Columbus, Ga. Tire-tread. No. 55,378; June 1; v. 275; p. 162.
Grossman, Cassriel J. and S. M., Chicago, Ill.; said S. M. Grossman assignor, by mesne assignments, to S. M. Grossman & Co. Jewelry—namely, ring-top, pendant, pair of cuff-buttons, pin, or article of similar nature. No. 55,609; July 6; v. 276; p. 160.
Grossman, S. M., & Co. (See Grossman, Cassriel J. and S. M., assignors.)
Grossman, Samuel M. (See Grossman, Cassriel J. and S. M.)
Grote, Walther H., assignor to Ten Broeck Tyre Company, Louisville, Ky. Tire. No. 54,912; Apr. 20; v. 273; p. 574.
Grotenhuis, William J. (See Pancoast, W. G., and Grotenhuis.)
Gruelle, John B., Norwalk, Conn. Doll. No. 56,149; Aug. 24; v. 277; p. 740.
Gruelle, John B., Norwalk, Conn. Toy animal. Nos. 56,608–9; Nov. 18; v. 280; p. 558.
Gruenberg, Raoul J., San Francisco, Calif. Automobile-body. No. 55,461; June 15; v. 275; p. 568.
Gudelj, Ella I., San Francisco, Calif. Candy-box. No. 56,696; Nov. 30; v. 280; p. 964.
Guerin, Joseph, Chicago, Ill. Game-board. No. 56,150; Aug. 24; v. 277; p. 740.
Guinn, John W., Lagrange, Ga. Advertising-sign. No. 55,421; June 8; v. 275; p. 367.
Guinzburg, Victor, assignor to I. B. Kleinert Rubber Company, New York, N. Y. Belt. No. 56,151; Aug. 24; v. 277; p. 741.
Guinzburg, Victor, assignor to I. B. Kleinert Rubber Company, New York, N. Y. Elastic fabric. No. 56,358; Oct. 5; v. 279; p. 138.
Gunther, Joseph, Kansas City, Mo. Plate or similar article. No. 55,269; May 25; v. 274; p. 776.
Guy, Raymond W. (See Merkel, H., and Guy.)
Haag Cabinet Company. (See Howard, Emmett M., assignor.)
Haber, Abraham F., Brooklyn, N. Y. Key-ring holder. No. 56,281; Sept. 14; v. 278; p. 316.
Hackett, Loyce D., Miami, Fla. Pin. No. 54,913; Apr. 20; v. 273; p. 574.
Haddix, James P., Crawford, Nebr. Combined pocket-knife and bottle-opener. No. 55,123; May 11; v. 274; p. 358.
Haines, Bessie A., Bristol, Ind. Doll. No. 56,667; Nov. 23; v. 280; p. 755.
Hale, Willis W., Cleveland, Ohio. Electric heater. No. 55,789; July 13; v. 276; p. 366.
Haley, Reuben, Beaver, assignor to United States Glass Company, Pittsburgh, Pa. Glass casserole or baking-dish and cover. No. 54,914; Apr. 20; v. 273; p. 574.
Haley, Reuben, Beaver, assignor to United States Glass Company, Pittsburgh, Pa. Auto-curtain window. No. 55,169; May 18; v. 274; p. 555.
Haley, Reuben, Beaver, assignor to United States Glass Company, Pittsburgh, Pa. Auto-curtain window. No. 55,379; June 1; v. 275; p. 162.
Hall, C. M., Lamp Company. (See Anklam, William F., assignor.)
Hall, George, assignor to Nelson, Baker & Company, Detroit, Mich. Bottle-wrapper. No. 54,616; Mar. 9; v. 272; p. 329.
Hall, George, assignor to Nelson, Baker & Company, Detroit, Mich. Sifter-top can or similar receptacle. No. 56,427; Oct. 26; v. 279; p. 687.
Hall, George B., Grand Rapids, Mich. Ring, pin, or article of similar nature. No. 56,428; Oct. 26; v. 279; p. 687.
Hall, Peter, Pasadena, Calif. Box. No. 56,152; Aug. 24; v. 277; p. 741.
Halladay, Lewis P., Streator, Ill. Bumper-bar. No. 56,697; Nov. 30; v. 280; p. 964.
Hallauer, Charles, assignor to Art in Buttons, Inc., Rochester, N. Y. Button. No. 55,037; May 4; v. 274; p. 140.
Halstead, Hazel S., assignor to Anna F. Desmond, Los Angeles, Calif. Incense-burner. No. 56,810–11; Dec. 28; v. 281; p. 746.
Hambaugh, Eugene, Mount Sterling, Ill. Clasp. No. 56,359; Oct. 5; v. 279; p. 138.
Hamburger, Louis, & Co. (See Zographos, Alexander G., assignor.)
Hamilton, Harry G., Youngstown, Ohio. Artificial bait. No. 55,462; June 15; v. 275; p. 568.
Hamilton, John R., Yonkers, N. Y., assignor to Automatic Sprinkler Company of America. Retainer-lever for a sprinkler-head or similar article. No. 55,038; May 4; v. 274; p. 140.
Hamilton, John R., Yonkers, assignor to Automatic Sprinkler Company of America, New York, N. Y. Sprinkler head or similar article. No. 55,124; May 11; v. 274; p. 359.
Hamilton, John R., Yonkers, assignor to Automatic Sprinkler Company of America, New York, N. Y. Frame for a sprinkler-head or similar article. No. 55,170; May 18; v. 274; p. 555.
Hamilton, John R., Yonkers, assignor to Automatic Sprinkler Company of America, New York, N. Y. Frame member for automatic sprinkler-heads or similar articles. No. 55,463; June 15; v. 275; p. 568.
Hammer, Charles, assignor to American Metal Cap Company, Queens, N. Y. Bottle-cap. No. 55,125; May 11; v. 274; p. 359.
Hammer, Charles, Queens, assignor to American Metal Cap Company, Brooklyn, N. Y. Bottle-cap. No. 55,380; June 1; v. 275; p. 162.
Handel Company, The. (See Handel, William F., assignor.)
Handel, William F., Meriden, Conn., assignor to The Handel Company. Shade for lighting-fixtures. No. 55,464; June 15; v. 275; p. 568.
Hanley, John L., Chicago, Ill. Tread of a pneumatic-tire casing. No. 55,171; May 18; v. 274; p. 555.
Hanmer, Laurence G., Brooklyn, N. Y., assignor to The A-Z Company, New York, N. Y. Automobile-radiator core. No. 55,465; June 15; v. 275; p. 569.
Hanson, Norah, Sharon, N. D. Hero service pin, badge, or similar article. No. 55,270; May 25; v. 274; p. 776.
Harley, Leon J., Jr. (See Hodgetts, Harold W., assignor.)
Harman, Charles W., New Rochelle, assignor to Joseph Fahys & Company, New York, N. Y. Handle for spoons, forks, or the like. No. 56,153; Aug. 24; v. 277; p. 741.
Haro, Jesus, New York, N. Y. Game. No. 54,915; Apr. 20; v. 273; p. 574.
Harpur, James J., Pittsburgh, Pa. Pen-holding attachment for ink-bottles. No. 56,064; Aug. 10; v. 277; p. 346.
Harraden, Amos F. B., Mount Vernon, N. Y. Lighting-fixture. No. 56,154; Aug. 24; v. 277; p. 741.
Harris, Alexander, assignor to Louis V. Aronson, Newark, N. J. Screwdriver. No. 56,812; Dec. 28; v. 281; p. 747.
Harris, Archer H., Barberton, assignor to The Cleveland Rubber Corporation Company, Cleveland, Ohio. Tire-tread. No. 54,412; Feb. 10; v. 271; p. 307.
Harris, Carl C., assignor to Rivet-O Manufacturing Company, Orange, Mass. Base for moisteners. No. 56,360; Oct. 5; v. 279; p. 138.
Harris, Maurice E., assignor to H. C. Evans & Company, Chicago, Ill. Playing-card. No. 55,466; June 15; v. 275; p. 569.
Harris, Moses A., Westfield, N. J. Reduction-gear base. No. 55,467; June 15; v. 275; p. 569.
Harris, Rose, Cleveland, Ohio. Rubber heel. No. 54,550; Mar. 2; v. 272; p. 139.
Harris, Ruth E., and R. L. Chance, San Francisco, Calif. Salt and pepper basket. No. 54,916; Apr. 20; v. 273; p. 574.
Harriss, John A., New York, N. Y. Store-front. No. 56,429; Oct. 26; v. 279; p. 688.
Hartline, William A., Penns Grove, N. J. Service-pin. No. 55,039; May 4; v. 274; p. 140.
Harvey, Sidney M., and S. E. Lorenz, assignors to Electric Welding Machine Company, Detroit, Mich. Electric-transformer case. No. 55,422; June 8; v. 275; p. 367.
Hasel, Leo, San Francisco, Calif. Shoe-plate. No. 55,126; May 11; v. 274; p. 359.
Haskell, Adam, Lookout Mountain, Tenn. Portable serving-table. No. 56,945; Aug. 3; v. 277; p. 139.
Haskell, Samuel, New York, N. Y. Doll or statuette. No. 55,562; June 29; v. 275; p. 979.
Hatch, Florence B., St. Louis, Mo. Doll. No. 55,040; May 4; v. 274; p. 141.
Hatchet, Henry, Thomasville, Ga. Cane. No. 56,722; Dec. 7; v. 281; p. 164.
Hatfield, Robert L., Newark, N. J. Emblem, badge, pin, fob, ring, or like article. No. 55,041; May 4; v. 274; p. 141.
Haupt, Harry, Elmsford, assignor to Kimpton, Haupt & Co., New York, N. Y. Cover for inkstand. No. 55,610; July 6; v. 276; p. 160.

Digitized by Google

Alphabetical list of patentees of designs—Continued.

Haven, Robert H., Grand Rapids, Mich. Gutter-screen. No. 54,617; Mar. 9; v. 272; p. 329.
Hawe, William F. M., assignor to Macbeth-Evans Glass Company, Pittsburgh, Pa. Lamp-shade. No. 56,430; Oct. 26; v. 279; p. 688.
Hawe, William F. M., assignor to Macbeth-Evans Glass Company, Pittsburgh, Pa. Inclosed lamp-globe. No. 56,431; Oct. 26; v. 279; p. 688.
Hayes Wheel Company. (See Burns, T. C., and Huffman, assignors.)
Hazard, George E., assignor to Kellogg Manufacturing Company, Rochester, N. Y. Air-pump crank-shaft and gear-housing. No. 54,413; Feb. 10; v. 271; p. 307.
Hazard, George E., assignor to Kellogg Manufacturing Company, Rochester, N. Y. Air-pump crank-shaft and gear housing. Nos. 54,618–19; Mar. 9; v. 272; p. 329.
Hazelton Brothers. (See Plaisted, William M., assignor.)
Healy, Martin J., assignor to Victory Manufacturing Company, Chicago, Ill. Memorial-tablet. No. 54,414; Feb. 10; v. 271; p. 307.
Heap, William A., Topeka, Kans. Hairpin. No. 56,557; Nov. 9; v. 280; p. 355.
Heath, Thomas, assignor to The Standard Button Company, Attleboro, Mass. Pin or similar article. No. 55,042; May 4; v. 274; p. 141.
Heathcote, Edwin C., Brooklyn, N. Y. Emblem, pin, button, or similar article. Nos. 54,620–1; Mar. 9; v. 272; pp. 329–30.
Heathcote, Edwin C., Brooklyn, N. Y. Emblem, pin, button, watch-charm, medal, or similar article. No. 55,790; July 13; v. 276; p. 366.
Heathcote, Edwin C., Brooklyn, N. Y. Emblem, pin, button, or similar article. Nos. 56,610–11; Nov. 16; v. 280; p. 558.
Heather Handkerchief Works. (See Kleve, Caesar, assignor.)
Heckmann, Harry G., Binghamton, N. Y. Internally-heated flatiron. No. 55,791; July 13; v. 276; p. 366.
Hecox, Seward W., Zeeland, Mich. Phonograph-cabinet. No. 56,232; Aug. 31; v. 277; p. 939.
Heilbrun, Monroe E., New York, N. Y. Emblem, badge, button, or similar article. No. 56,155; Aug. 24; v. 277; p. 741.
Heilig, Luther A., San Diego, Calif. Pair of eyeglasses. No. 55,468; June 15; v. 275; p. 569.
Heine, Frank H. (See Nicholas, L. B., and Heine.)
Heine, Frank H. (See Nicholas, Lorena B., assignor.)
Heller, Samuel, New York, N. Y. Precious, semiprecious, or synthetic stone, or an imitation thereof. Nos. 55,512–13; June 22; v. 275; p. 776.
Hellmich, Philip J., Philadelphia, assignor to R. W. Elton, secretary, Pittsburgh, Pa. Badge, emblem, or an article of a similar nature. No. 54,517; Feb. 24; v. 271; p. 653.
Helman, Jessie A., Chico, assignor to A. F. Desmond, Los Angeles, Calif. Incense-burner. Nos. 56,361–2; Oct. 5; v. 279; p. 138.
Helmond, William F., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine frame. No. 55,381; June 1; v. 275; p. 162.
Helton, Myra I. (See Vernon, H. J., and Helton.)
Hendee Manufacturing Co. (See Franklin, Charles B., assignor.)
Henderson, Chester O., assignor to Henderson Tire & Rubber Corporation, Columbus, Ohio. Tire-tread. No. 55,611; July 6; v. 276; p. 160.
Henderson, Chester O., assignor to Henderson Tire & Rubber Corporation, Columbus, Ohio. Tire-tread. No. 55,612; July 6; v. 276; p. 160.
Henderson Tire & Rubber Corporation. (See Henderson, Chester O., assignor.)
Henry, George J. (See Schoenberg, M. H., and Henry.)
Henry, Orloff, New Orleans, La., assignor to The Pi Kappa Alpha Fraternity, Atlanta, Ga. Fraternity pin or badge. No. 56,156; Aug. 24; v. 277; p. 741.
Heppes, Otto A., La Grange, Ill. Shingle-simulating strip. No. 54,917; Apr. 20; v. 273; p. 575.
Herbert, Henry W. L., New York, N. Y. Mechanical toy figure. No. 55,563; June 29; v. 275; p. 979.
Herhold Chair Co. (See Burjanek, Frank, assignor.)
Hermani, Henry, assignor to The Tin Decorating Company of Baltimore, Baltimore, Md. Sifter-top can or similar receptacle. Nos. 54,415–16; Feb. 10; v. 271; p. 307.
Hermelin, Astrid, New York, N. Y., assignor to Greely Square Hotel Company. Doll. No. 54,918; Apr. 20; v. 273; p. 575.
Herrick, Grace T., Palo Alto, Calif. Image or statuette. No. 56,363; Oct. 5; v. 279; p. 139.
Herrick, Grace T., Palo Alto, Calif. Image or statuette. No. 56,612; Nov. 16; v. 280; p. 558.
Heskett, Allen, Oakland, Calif. Tire-tread. No. 56,723; Dec. 7; v. 281; p. 165.
Hess, Herman, Baltimore, Md. Heel. No. 55,127; May 11; v. 274; p. 359.
Heyman, Albert C., New York, N. Y., assignor to Peerless Rubber Manufacturing Company. Sheet floor-covering. No. 55,514; June 22; v. 275; p. 776.
Heywood Brothers & Wakefield Company. (See Keeney, Howard R., assignor.)
Heywood Brothers and Wakefield Company. (See O'Hearn, George E., assignor.)
Hickey, Henry J. (See McMullan, W. E., and Hickey.)
Hickey, Henry J., and W. E. McMullan, Fort Dodge, Iowa. Guide-post. No. 55,859; July 20; v. 276; p. 552.
Hickey, Henry J., and W. E. McMullan, Fort Dodge, Iowa. Street-direction and advertising device. No. 56,157; Aug. 24. v. 277; p. 742.
Hickok Manufacturing Company. (See Davis, Earl M., assignor.)
Hickok Manufacturing Company. (See Shields, Lowell W., assignor.)
Hicks, Oscar H., assignor to White Products Company, Chicago, Ill. Radiator-cap. Nos. 56,698–9; Nov. 30; v. 280; p. 965.
High Speed Hammer Company, The. (See Leckinger, Philip H., assignor.)
Hill, Dexter B. (See Thompson, Milton O., assignor.)
Hille, Frank, Long Island City, N. Y. Ash-tray and match-picker. No. 54,623; Mar. 9; v. 272; p. 330.
Himmel, Solomon. (See Reymann, Joseph F., assignor.)
Hinegardner, Francis G., and D. W. Bowman, Toledo, Iowa. Sleigh-knee. No. 56,004; Aug. 10; v. 277; p. 336.
Hinger, John A., Detroit, Mich. Radiator. No. 55,043; May 4; v. 274; p. 141.
Hinger, John A., Detroit, Mich. Radiator. No. 55,044; May 4; v. 274; p. 141.
Hinger, John A., Detroit, Mich. Radiator. No. 56,065; Aug. 10; v. 277; p. 846.
Hinman, Millie, Brooklyn, N. Y. Dress. Nos. 54,518–19; Feb. 24; v. 271; pp. 653–4.
Hipkins, Stephen, Martins Ferry, Ohio. Headlight-lens. No. 54,504; Feb. 17; v. 271; p. 501.
Hirsch, Julius, Brooklyn, N. Y. Saltcellar. No. 55,271; May 25; v. 274; p. 776.
Hirsch, Julius, Brooklyn, N. Y. Stirring-rod or similar article. No. 55,861; July 20; v. 276; p. 552.
Hirsch, Lee, New York, N. Y. Jewelry—namely, a pin, brooch, ring, or article of similar nature. No. 55,946; Aug. 3; v. 277; p. 139.
Hirsh, Milton A., assignor to Cohn, Goldwater Company, Los Angeles, Calif. Child's dress. No. 55,860; July 20; v. 276; p. 552.
Hobe, William W., New York, N. Y. Button. No. 55,862; July 20; v. 276; p. 553.
Hoblitt, Frederic M., New York, N. Y. Individual-seat service-car body. No. 56,233; Aug. 31; v. 277; p. 939.
Hodges, Charles J., assignor to The Quality Tire & Rubber Company, Anderson, Ind. Automobile-tire. No. 54,740; Mar. 23; v. 272; p. 688.
Hodgetts, Harold W., assignor to L. J. Harley, Jr., Springfield, Mass. Casket-handle. No. 56,558; Nov. 9; v. 280; p. 355.
Hoffman, George P., Akron, Ohio. Elastic vehicle-tire. Nos. 54,919–21; Apr. 20; v. 273; p. 575.
Hoffman, Harry and L., Philadelphia, Pa. Seepage-interc epting attachment for dashboards. No. 55,172; May 18; v. 274; p. 555.
Hoffman, Lois. (See Hoffman, Harry and L.)
Holbrook, Rufus H., assignor to The Charles William Stores, Inc., Brooklyn, N. Y. Tire. No. 56,158; Aug. 24; v. 277; p. 742.
Holcomb & Hoke Manufacturing Company. (See Booth, Earl C., assignor.)
Holden & White. (See Bakstad, Johan R., assignor.)
Holland, Julian, assignor to Bowman Hotel Corporation, New York, N. Y. Plate or similar article. No. 55,272; May 25; v. 274; p. 776.
Hollingsworth, Jeptha G., Kansas City, Mo. Toilet article. No. 54,741; Mar. 23; v. 272; p. 688.
Hollister, Julia M., Des Moines, Iowa. Toy chair. No. 56,159; Aug. 24; v. 277; p. 742.
Hollister, Julia M., Des Moines, Iowa. Toy bed. No. 56,160; Aug. 24; v. 277; p. 742.
Hollister, Julia M., Des Moines, Iowa. Animal toy. No. 56,161; Aug. 24; v. 277; p. 742.
Holloway, Harry A., assignor to The King Manufacturing Company, St. Joseph, Mo. Lamp-fixture. Nos. 56,162–3; Aug. 24; v. 277; p. 743.
Holmes, Frank G., Trenton, N. J. Plate or similar article. Nos. 54,813–14; Mar. 30; v. 272; p. 889.
Holophane Glass Company. (See Dorey, William A., assignor.)
Holstein, Adolph M., Syracuse, N. Y. Panel for furniture and caskets and interior and exterior decorations. No. 54,417; Feb. 10; v. 271; p. 307.
Holstein, Adolph M., Syracuse, N. Y. Overlay ornament for furniture, casket, interior or exterior decoration. No. 54,418; Feb. 10; v. 271; p. 308.
Holstein, Adolph M., Syracuse, N. Y. Grill for phonograph-cabinets. No. 56,818; Dec. 28; v. 281; p. 747.
Holtz, Gustav, Gouldsboro, Pa. Amalgam carrier and plugger. No. 56,613; Nov. 16; v. 280; p. 558.
Honeck, Henry, assignor to The Batavia and New York Wood Working Company, Batavia, N. Y. Phonograph-case. No. 56,614; Nov. 16; v. 280; p. 559.
Honeyman, William A., San Francisco, Calif. Vehicle-operator's heel-rest. No. 56,234; Aug. 31; v. 277; p. 939.
Honeyman, William A., San Francisco, Calif. Display-card. No. 56,814; Dec. 28; v. 281; p. 747.

Digitized by Google

Hood Rubber Company. (See Tousley, N. E., and Whorf, assignors.)
Hoodwin, J. W., Company. (See Reisfield, Louis, assignor.)
Horn & Brannen Manufacturing Co. (See Frerichs, Frederick A., assignor.)
Horn, Fred A., Denver, Colo. Highway advertising and directing device. No. 55,947; Aug. 3; v. 277; p. 139.
Horsman, E. I., & Aetna Doll Co. (See Goldenberg, Benjamin, assignor.)
Horstman, Walter G., Lacona, Iowa. Automobile foot-scraper. No. 56,432; Oct. 26; v. 279; p. 688.
Hotaling, Omar J., East Orange, N. J., assignor to American Newsvender Corporation, New York, N. Y. Newspaper-vending cabinet. No. 54,841; Apr. 13; v. 273; p. 344.
Hotz, John P., Brookline, Mass. Fan. No. 54,419; Feb. 10; v. 271; p. 308.
House, Carl C., *et al.* (See Hoy, John E., assignor.)
Houston, William A., Sioux City, Iowa. Hook-pin. No. 55,515; June 22; v. 275; p. 776.
Hovekamp, George B., Cincinnati, Ohio. Rosary. No. 55,382; June 1; v. 275; p. 162.
Howard, Chester A., Brooklyn, N. Y. Pin, badge, flag, or similar article. No. 55,564; June 29; v. 275; p. 979.
Howard, Earl H., assignor to Gilfillan Bros. Smelting & Refining Company, Los Angeles, Calif. Spot light. No. 56,066; Aug. 10; v. 277; p. 347.
Howard, Emmett M., High Point, N. C. Phonographic-record-disk cabinet. No. 55,613; July 6; v. 276; p. 161.
Howard, Emmett M., Merchantville, N. J., assignor to Haag Cabinet Company, Philadelphia, Pa. Phonographic-disk-record cabinet. No. 55,045; May 4; v. 274; p. 141.
Howe Rubber Corporation. (See Tenney, John, Jr., assignor.)
Howe, Winthrop K., Rochester, N. Y. Washing-machine. No. 54,842; Apr. 13; v. 273; p. 345.
Hoy, John E., Midland, assignor of one-half to Jeffery N. Collins, Detroit, and one-half to Carl C. House, Midland, Mich. Toy gun. No. 56,615; Nov. 16; v. 280; p. 559.
Hoyt, Adrian H., Penacook, N. H. Portable electrical measuring instrument. No. 54,843; Apr. 13; v. 273; p. 345.
Hubbell, Harvey, Incorporated. (See Newton, William J., assignor.)
Hudgins, Patrick L., Decatur, Ga. Automobile-tool. No. 55,792; July 13; v. 276; p. 367.
Huebsch, Arthur A., Congress Park, Ill. Service-flag or similar article. No. 55,273; May 25; v. 274; p. 777.
Huey, Leslie P., Maplewood, Mo. Knife-handle. No. 56,524; Nov. 2; v. 280; p. 147.
Huffman, Frank K. (See Burns, T. C., and Huffman.)
Hufford, Ernest C. and W. S. Bates, Watts, Calif. Tire-tread. No. 56,616; Nov. 16; v. 280; p. 559.
Hulbert, Ansel C., San Francisco, Calif. Switch-casing. No. 134,614; July 6; v. 276; p. 161.
Hulse, Edison G., Akron, Ohio, assignor to Kelly-Springfield Tire Co., New York, N. Y. Rubber tire. No. 54,844; Apr. 13; v. 273; p. 345.
Humphrey, Alfred H., New York, N. Y. Gas-stove. Nos. 54,742–3; Mar. 23; v. 272; pp. 688–9.
Humphrey, Alfred H. and G. A., New York, N. Y. Gas-burner. No. 54,744; Mar. 23; v. 272; p. 689.
Humphrey, Alfred H., New York, N. Y. Gas-stove. Nos. 55,173–8; May 18; v. 274: 556.
Humphrey, Clen S., Brooklyn, N. Y. Container for toilet powder or other commodities. No. 54,626; Mar. 9; v. 272; p. 330.
Humphrey, Clen S., Brooklyn, N. Y. Cap for a powder-container. No. 54,745; Mar. 23; v. 272; p. 689.
Humphrey, Clen S., Brooklyn, N. Y. Powder-container or similar receptacle. Nos. 54,746–7; Mar. 23; v. 272; p. 689.
Humphrey, Clen S., Brooklyn, N. Y. Receptacle. No. 54,748; Mar. 23; v. 272; p. 689.
Humphrey, Clen S., Brooklyn, N. Y. Powder-container. No. 54,922; Apr. 20; v. 273; p. 575.
Humphrey, Clen S., Brooklyn, N. Y. Powder-can or similar receptacle. No. 54,923; Apr. 20; v. 273; p. 576.
Humphrey, Clen S., Brooklyn, N. Y. Powder-container or similar receptacle. No. 54,924; Apr. 20; v. 273; p. 576.
Humphrey, Clen S., assignor, by mesne assignments, to A. E. Bruns, Brooklyn, N. Y. Receptacle for toilet powders and other salable commodities. No. 54,845; Apr. 13; v. 273; p. 345.
Humphrey, Clen S., Brooklyn, N. Y. Powder-container. No. 55,046; May 4; v. 274; p. 141.
Humphrey, Clen S., Brooklyn, N. Y. Powder-can or similar receptacle. No. 55,047; May 4; v. 274; p. 142.
Humphrey, George A. (See Humphrey, Alfred H. and G. A.)
Humphrey, Ira V., Highland Park, Pa. Tire. No. 55,048; May 4; v. 274; p. 142.
Hunt, Helm, Ferris & Co. (See Ferris, Henry L., assignor.)
Huntley, Ernest R., assignor to Industrial Research Corporation, Toledo, Ohio. Paper drinking-cup. No. 54,749; Mar. 23; v. 272; p. 690.
Hurd, Hubbard F., assignor to Cluett, Peabody & Co., Inc., Troy, N. Y. Fold-collar. No. 55,128; May 11; v. 274; p. 359.
Hurlbut, James H., Los Angeles, Calif. Automobile-bumper. No. 56,235; Aug. 31; v. 277; p. 940.
Husser, Charles A., Torrington, Conn. Curtain-pole and shade bracket. No. 55,274; May 25; v. 274; p. 777.
Hutchins, Rufus J., assignor to The Dayton Manufacturing Company, Dayton, Ohio. Casing for water-heaters. No. 55,179; May 18; v. 274; p. 557.
Huthmaker, James R., and W. R. Leas, Wyoming, Pa. Knife-rest. No. 55,516; June 22; v. 275; p. 776.
Huttig, Ernest W., assignor to The Jefferson Glass Company, Pittsburgh, Pa. Bowl. Nos. 56,433–5; Oct. 26; v. 279; p. 689.
Huyler, Couter D., Greenwich, Conn., assignor to Huyler's Inc., New York, N. Y. Jar. No. 56,252; Sept. 7; v. 278; p. 136.
Huyler's. (See Huyler, Coulter D., assignor.)
Huyler's. (See Porter, Adelaide M., assignor.)
Hygonnet, Auguste, assignor to Societe Generale De Coutellerie et Orfererie, Paris, France. Ash-stand. No. 56,724; Dec. 7; v. 281; p. 165.
Hygrade Lighting Fixture Corporation. (See Cohn, Harry, assignor.)
Icy-Hot Bottle Company, The. (See Altenberg, George P., assignor.)
Ideal Tire & Rubber Company, The. (See Breitenstein, Arthur L., assignor.)
Illinois Automobile Club. (See Rosenbach, David, assignor.)
Imperial Glass Company. (See Ebeling, Phillip, assignor.)
Industrial Research Corporation. (See Belden, Edward H., assignor.)
Industrial Research Corporation. (See Huntley, Ernest R., assignor.)
Inflexible Co. (See Schwarber, Henry, assignor.)
International Committee of The Young Men's Christian Association, The. (See Cheley, Frank H., assignor.)
International Silver Co. (See Beck, Ernest T., assignor.)
International Silver Co. (See Kintz, Alfred G., assignor.)
Iribe, Paul, New York, N. Y. Phonograph-cabinet. No. 55,863; July 20; v. 276; p. 553.
Iredell, Robert, assignor to The General Tire and Rubber Company, Akron, Ohio. Tire-casing. No. 56,282; Sept. 14; v. 278; p. 317.
Iron City Products Company. (See Arnold, Edwin E., assignor.)
Irwin, Beatrice, New York, N. Y. Light-filter. No. 55,793; July 13; v. 276; p. 367.
Isaacs, Irving H., New York, N. Y. Bed. No. 56,725; Dec. 7; v. 281; p. 165.
Ives, Holmes, Chippewa Falls, Wis. Tire-tread. No. 54,551; Mar. 2; v. 272; p. 139.
Ivy, William F., Rock Island, Ill. Flag. No. 55,275; May 25; v. 274; p. 777.
J. & D. Tire Company. (See Downes, Elmer N., assignor.)
Jackson, Salome C., New York, N. Y. Radiator-cap ornament for automobiles. No. 55,615; July 6; v. 276; p. 161.
Jacobi, William J., Washington, D. C. Statuette. No. 56,164; Aug. 24; v. 277; p. 743.
Jacobs, Samuel A., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Font of Syriac type. Nos. 55,049–51; May 4; v. 274; p. 142.
Jacoby, Charles N. (See Richardson and Jacoby.)
Jacoby, Leo D., assignor, by mesne assignments, to Sanitary Products Corporation of America, Philadelphia, Pa. Fiber plate. No. 54,846; Apr. 13; v. 273; p. 345.
Jakob, Victor. (See Miser and Jakob.)
James, Sidney V., Niagara Falls, N. Y., assignor to Wm. A. Rogers, Limited, Toronto, Canada. Handle for a spoon, fork, or similar article. Nos. 54,627–9; Mar. 9; v. 272; p. 331.
Janiecz, Antoni, Curtis Bay, Md. Hairpin. No. 55,052; May 4; v. 274; p. 142.
Jardella, Aristide, New York, N. Y. Porcupine toothpick-holder. No. 55,794; July 13; v. 276; p. 367.
Jarvis, Harold, Toronto, Ontario, Canada. Self-closing faucet. No. 54,847; Apr. 13; v. 273; p. 346.
Jaszewski, Maryan, Bethlehem, Pa. Curtain-pole holder. No. 56,005; Aug. 10; v. 277; p. 336.
Jefferson Glass Company, The. (See Huttig, Ernest W., assignor.)
Jenkins, Clarence E., Keene, N. H. Garden-urn. No. 55,864; July 20; v. 276; p. 553.
Jensen, Nils G. (See Bristol, George W.)
Jewell, John, Duluth, Minn. Advertising-cabinet. No. 56,165; Aug. 24. v. 277; p. 743.
Jimmerson, Robert J., Brooklyn, assignor to L. Steiner, New York, N. Y. Therapeutic lamp. No. 54,630; Mar. 9; v. 272; p. 331.
Johanson, Emil G. (See Johnson, Gustaf, assignor.)
Johanson, Emil G., assignor to D. H. Roblin, Chicago, Ill. Sheet-glass. No. 54,925; Apr. 20; v. 273; p. 576.
Johanson, Emil G., assignor to D. H. Roblin, Chicago, Ill. Prism-glass. No. 55,276; May 25; v. 274; p. 777.
Johanson, Ragnar G. A., Chicago, Ill. Whipping-top. No. 56,364; Oct. 5; v. 279; p. 139.
Johnson, Albert J., assignor of one-half to A. J. Malek, Detroit, Mich. Gas-burner. No. 54,848; Apr. 13; v. 273; p. 346.

Digitized by Google

Alphabetical list of patentees of designs—Continued.

Johnson Biscuit Company. (See Bergerod, Lisle, assignor.)
Johnson, Charles E., assignor of one-third to S. Bitterman and one-third to W. A. Johnson, Denver, Colo. Carbureter body or casing. No. 55,469; June 15; v. 275; p. 569.
Johnson, Edward H., assignor to The A. & J. Manufacturing Co., Binghamton, N. Y. Spoon, fork, or similar article. No. 56,236; Aug. 31; v. 277; p. 940.
Johnson, Ernest J., Stoke-upon-Trent, England. Covered dish. No. 54,849; Apr. 13; v. 273; p. 346.
Johnson, Ernest S., Webster City, Iowa. Heat-insulated container. No. 54,631; Mar. 9; v. 272; p. 331.
Johnson, Gustaf, assignor to E. G. Johanson, Chicago, Ill. Headlight-lens. No. 55,470; June 15; v. 275; p. 569.
Johnson, Harrie H., Brooklyn, N. Y. Flag. No. 54,750; Mar. 23; v. 272; p. 690.
Johnson, Henry H., Oak Park, assignor to Collins Safety Razor Company, Chicago, Ill. Razor. No. 56,283; Sept. 14; v. 278; p. 317.
Johnson, James G., Chicago, Ill. Foot rest and warmer. No. 55,616; July 6; v. 276; p. 161.
Johnson, William A., *et al.* (See Johnson, Charles E., assignor.)
Johnston, Clifford E., assignor of one-half to Charles T. Edwards, St. Louis, Mo. Statuette or similar article. No. 55,795; July 13; v. 276; p. 367.
Johnstone, Russell R., Wauwatosa, Wis. Advertising-sign. No. 55,471; June 15; v. 275; p. 570.
Jones, Andrew S., Spokane, Wash. Toy vehicle. No 56,559; Nov. 9; v. 280; p. 355.
Jones, Annzzanetta B., Detroit, Mich. Pencil-holder. No. 55,565; June 29; v. 275; p. 979.
Jones, Archer G., Richmond, Va. Badge, button, or emblem. No. 56,617; Nov. 16; v. 280; p. 559.
Jones, Edward H., Snaresbrook, England. Statuette. Nos. 56,166–7; Aug. 24; v. 277; p. 743.
Jones, Palmer J., and P. D. Schreiber, Port Washington, N. Y. Desk. No. 56,168; Aug. 24; v. 277; p. 744.
Jones, Palmer J., and P. D. Schreiber, Port Washington, N. Y. Seat. No. 56,169; Aug. 24; v. 277; p. 744.
Jones, Palmer J., and P. D. Schreiber, Port Washington, N. Y. Combined desk and seat. No. 56,170; Aug. 24; v. 277; p. 744.
Jones, Thomas G., East Orange, N. J. Bowl. No. 54,850; Apr. 13; v. 273; p. 346.
Jones, Thomas G., East Orange, N. J. Vase. No. 54,926; Apr. 20; v. 273; p. 576.
Jordan, Thomas E., Malden, Mass. Barrel-truck. No. 56,284; Sept. 14; v. 278; p. 317.
Judge, Virginia, deceased, San Francisco, Calif.; D. Malone, administrator. Doll. Nos. 54,505–8; Feb. 17; v. 271; pp. 501–2.
Judge, Virginia, deceased, San Francisco, Calif.; D. Malone, administrator. Doll. No. 54,751; Mar. 23; v. 272; p. 690.
Juthe, Stanley N., Newton, and S. H. Lang, Cambridge, Mass. Aerial toy. No. 56,171; Aug. 24; v. 277; p. 744.
K-M Manufacturing Company, The. (See Minier, William H., assignor.)
Kaczmarczyk, Joseph, Detroit, Mich. Rail-clamp. No. 55,383; June 1; v. 275; p. 162.
Kahles, John L., Oakland, Calif. Combined time-table, advertising board and clock. No. 54,927; Apr. 20; v. 273; p. 576.
Kallander, Oscar, North Tonawanda, N. Y. Toothbrush-holder or similar toilet article. No. 54,752; Mar. 23; v. 272; p. 690.
Kallman, William K., assignor to Blanck & Company, Inc., New York, N. Y. Lace. Nos. 54,817–20; Apr. 6; v. 273; pp. 135–6.
Kammerer, John H., Oakland, Calif. Automobile-body. No. 55,617; July 6; v. 276; p. 161.
Kapneck, Henry, Washington, D. C. Support. Nos. 55,796–7; July 13; v. 276; p. 367.
Karle, John D., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Oil-can. No. 55,472; June 15; v. 275; p. 570.
Kaspar, Frank L., Chicago, Ill. Mouthpiece for reed musical instruments. No. 54,420; Feb. 10; v. 271; p. 308.
Katz, Clara, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 55,517; June 22; v. 275; p. 776.
Katz, Clara, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 56,172; Aug. 24; v. 277; p. 744.
Kaupmann, Frederick, Jr., Brooklyn, N. Y., assignor to J. E. Duncan, Arlington Heights, Mass. Hatpin, scarfpin, cuff-link, tie-clip, ring, fob, pendant for neck-chains, pin, or article of manufacture of like character. No. 55,566; June 29; v. 275; p. 979.
Kaupmann, Frederick, Jr., Brooklyn, N. Y., assignor to The Faultless Rubber Company, Ashland, Ohio. Doll. No. 56,067; Aug. 10; v. 277; p. 347.
Kautt, William, St. Paul, Minn. Wagon-skein. No. 54,632; Mar. 2; v. 272; p. 332.
Kawneer Manufacturing Company. (See Eaglesfield, Frederick R., assignor.)
Kazanjian, Manoog, Boston, Mass. Phonograph-record. No. 55,053; May 4; v. 274; p. 142.
Kearney, John J., Berwyn, and G. H. Winter, Chicago, Ill. Statuette. No. 56,100; Aug. 17; v. 277; p. 549.
Keeney, Howard R., Melrose, assignor to Heywood Brothers Wakefield Company, Wakefield, Mass. Child's vehicle. No. 55,054; May 4; v. 274; p. 143.
Keeton, Forrest M., Detroit, Mich. Vehicle-wheel chock. No. 56,285; Sept. 14; v. 278; p. 317.
Keeton, Forrest M., Detroit, Mich. Vehicle-chock. No. 56,286; Sept. 14; v. 278; p. 317.
Keller, Clarence D., Los Angeles, Calif. Windshield. No. 55,618; July 6; v. 276; p. 162.
Kellogg Manufacturing Company. (See Hazard, George E., assignor.)
Kellogg Switchboard and Supply Company. (See Bohlman, Ernest A., assignor.)
Kelly, Patrick H., Philadelphia, Pa. Handle. No. 54,421; Feb. 10; v. 271; p. 308.
Kelly-Springfield Tire Co. (See Hulse, Edison G., assignor.)
Kelso, Samuel, Toronto, Ontario, Canada. Swimming-belt. No. 56,815; Dec. 28; v. 281; p. 747.
Kendall, William G., Newark, N. J. Toilet-powder container. No. 56,747; Dec. 14; v. 281; p. 369.
Kengla, Leo F., Westchester, N. Y. Button, badge, emblem, or article of similar character. No. 54,753; Mar. 23; v. 272; p. 690.
Kenner, William, Seattle, Wash. Automobile vase-holder. No. 56,006; Aug. 10; v. 277; p. 336.
Kenneth, John H., and F. N. Wattle, Philadelphia, Pa. Inhaler. No. 56,560; Nov. 9; v. 280; p. 355.
Kenney, John J., assignor to Lawson Manufacturing Company, Pittsburgh, Pa. Gas heat-burner. No. 56,618; Nov. 16; v. 280; p. 559.
Kent, Arthur A., Ardmore, Pa. Ignition-distributer. No. 56,748; Dec. 14; v. 281; p. 369.
Kerr, Harry E., assignor to Cleveland Gas Burner & Appliance Co., Cleveland, Ohio. Gas-burner. No. 54,851; Apr. 13; v. 273; p. 346.
Kerr, Harry E., and W. J. Barber, assignors to Cleveland Gas Burner & Appliance Co., Cleveland, Ohio. Gas-burner. No. 54,852; Apr. 13; v. 273; p. 347.
Keystone Manufacturing Company. (See Marks, Isidore, assignor.)
Kieckhefer, Alfred J., assignor to National Enameling & Stamping Company, Milwaukee, Wis. Oil-burning stove. Nos. 56,436–7; Oct. 26; v. 279; p. 689.
Kieffer, Eugene T., Philadelphia, Pa., assignor to Victor Talking Machine Company. Cabinet for a talking-machine. Nos. 54,928–9; Apr. 20; v. 273; p. 576.
Kiehler, Frederick, assignor to Cadillac Motor Car Company, Detroit, Mich. Vehicle-body. No. 54,422; Feb. 10; v. 271; p. 308.
Kieve, Caesar, Brooklyn, assignor to Heather Handkerchief Works, New York, N. Y. Handkerchief. No. 56,816; Dec. 28; v. 281; p. 747.
Kimpton, Haupt & Co. (See Haupt, Harry, assignor.)
Kimpton, Haupt & Co. (See Riley, James T., assignor.)
King, John Q. (See Pohl, Charles, assignor.)
King Manufacturing Company, The. (See Holloway, Harry A., assignor.)
King, Rufus, Plainville, Mass., assignor to Bugbee & Niles Company, North Attleboro, R. I. Clasp for a ribbon-bracelet. Nos. 55,423–4; June 8; v. 275; p. 367.
King, Sidney, assignor of one-half to E. M. Downe, Los Angeles, Calif. Shoe. No. 54,754; Mar. 23; v. 272; p. 690.
King, William A., Memphis, Tenn. Automobile-radiator. No. 55,473; June 15; v. 275; p. 570.
Kingsbury, Edward J. (See Kingsbury, Harry T. and E. J.)
Kingsbury, Harry T. and E. J., Keene, N. H. Portable baby-swing. No. 55,384; June 1; v. 275; p. 163.
Kinney, Brewster P., East Cleveland, Ohio. Holder for knitting or crochet needles. No. 54,755; Mar. 23; v. 272; p. 691.
Kinney, Le Baron, and C. R. Duffin, Terre Haute, Ind. Spring-shackle perch. No. 54,633; Mar. 9; v. 272; p. 332.
Kintz, Alfred G., Wallingford, assignor to International Silver Co., Meriden, Conn. Spoon, fork, or similar article. No. 55,180; May 18; v. 274; p. 557.
Kintz, Alfred G., Wallingford, assignor to International Silver Co., Meriden, Conn. Spoon, fork, or similar article. No. 56,237; Aug. 31; v. 277; p. 940.
Kirchen, Theodore, Chicago, Ill. Hanging ornament. No. 54,756; Mar. 23; v. 272; p. 691.
Kirchen, Theodore, Chicago, Ill. Novelty-basket. No. 55,055; May 4; v. 274; p. 143.
Kirstein, E., Sons Company. (See Kirstein, Henry E., assignor.)
Kirstein, Henry E., assignor to E. Kirstein Sons Company, Rochester, N. Y. Spectacle-temple end. No. 56,365; Oct. 5; v. 279; p. 139.
Kit-Chin-Kit Company. (See Lickert, John H., assignor.)
Kit-Chin-Kit Corporation. (See Lickert, John H., assignor.)
Klapp, Elmer A., New York, N. Y. Emblem, banner, or armband. No. 55,798; July 13; v. 276; p. 368.
Klapp, Elmer A., New York, N. Y. Hero-emblem pin or button. No. 55,799; July 13; v. 276; p. 368.
Klee, William C., Rochester, N. Y. Belt-display stand. No. 55,619; July 6; v. 276; p. 162.

Digitized by Google

Klein, Rudolf, Spokane, Wash. Cup. No. 56,749; Dec. 14; v. 281; p. 369.
Klein, Samuel, Philadelphia, Pa. Toy car for children. No. 56,438; Oct. 26; v. 279; p. 689.
Kleinert, I. B., Rubber Company. (See Guinsburg, Victor, assignor.)
Klemme, Ernst F., Milwaukee, Wis. Vent connection. No. 56,439; Oct. 26; v. 279; p. 690.
Klenk, Charles, Englewood, N. J., assignor to The Palm Brothers Company, New York, N. Y. Plate or similar article. No. 54,423; Feb. 10; v. 271; p. 808.
Klepser, Jacob R., Brady, Mont. Memorial tablet. No. 55,800; July 13; v. 276; p. 368.
Kline, Walter, Mogadore, Ohio. Tire-tread. No. 55,425; June 8, v. 275; p. 367.
Klippel, Tony, Frankfort, Ind. Toy locomotive. No. 55,567; June 29; v. 275; p. 979.
Klots, Zygmunt, Ralphton, Pa. Picture-frame. No. 56,173. Aug. 24; v. 277; p. 745.
Knaak, George A., Milwaukee, Wis. Controller. No. 55,620; July 6; v. 276; p. 162.
Knaak, George A., Milwaukee, Wis. Controller. No. 56,007; Aug. 10; v. 277; p. 336.
Knapp, Sidney M., New York, N. Y. Electric heater. No. 54,930; Apr. 20; v. 273; p. 577.
Knothe, Frank F., Ridgewood, N. J. Belt. No. 55,056; May 4; v. 274; p. 143.
Knott, Henry, Boston, Mass., assignor to The R. Wallace & Sons Manufacturing Company, Wallingford, Conn. Spoon, fork, or similar article. No. 55,131; May 11; v. 274; p. 360.
Knox Tire and Rubber Company, The. (See Breitenstein, Arthur L., assignor.)
Knudson, Torkel, Minneapolis, Minn. Phonograph-cabinet. No. 56,287; Sept. 14; v. 278; p. 317.
Koch, Frank A., New York, N. Y. Statuette. No. 54,931; Apr. 20; v. 273; p. 577.
Koken, Walter F., St. Louis, Mo. Towel-urn. No. 55,120; May 11; v. 274; p. 359.
Koken, Walter F., St. Louis, Mo. Cuspidor. No. 55,130; May 11; v. 274; p. 360.
Kominkiewicz, Marcel, South Omaha, Nebr. Wrist-mirror. No. 55,277; May 25; v. 274; p. 777.
Koon, William H., Chicago, Ill. Powder-puff. No. 55,474; June 15; v. 275; p. 570.
Koropp, Leopold and V. F. Bergman, Chicago, Ill. Wreath. No. 55,621; July 6; v. 276; p. 162.
Kostszewski, Stephen, assignor to Robert Findlay Manufacturing Co., New York, N. Y. Arm for lighting-fixtures. No. 55,948; Aug. 3; v. 277; p. 139.
Kostszewski, Stephen, assignor to Robert Findlay Manufacturing Co., New York, N. Y. Spindle for lighting-fixtures. No. 56,068; Aug. 10; v. 277; p. 347.
Kostszewski, Stephen, assignor to Robert Findlay Manufacturing Co., New York, N. Y. Body for lighting-fixtures. No. 56,069; Aug. 10; v. 277; p. 347.
Kostszewski, Stephen, assignor to Robert Findlay Manufacturing Co., New York, N. Y. Spindle for lighting-fixtures. No. 56,174; Aug. 24; v. 277; p. 745.
Kostszewski, Stephen, assignor to Robert Findlay Manufacturing Co., New York, N. Y. Arm for lighting-fixtures. No. 56,175; Aug. 24; v. 277; p. 745.
Kostszewski, Stephen, assignor to Robert Findlay Manufacturing Co., New York, N. Y. Bracket-back for lighting-fixtures. No. 56,176; Aug. 24; v. 277; p. 745.
Kostszewski, Stephen, assignor to Robert Findlay Manufacturing Co., New York, N. Y. Arm for lighting-fixtures. No. 56,253; Sept. 7; v. 278; p. 137.
Kraeuter, Arthur A., South Orange, N. J. Golf-club head. No. 55,278; May 25; v. 274; p. 777.
Kraeuter, Arthur A., South Orange, N. J. Press for tennis-rackets. No. 56,525; Nov. 2; v. 280; p. 147.
Kraft, Emil J., Racine, Wis., assignor to Ajax Rubber Company, Inc., New York, N. Y. Tire. No. 55,132; May 11; v. 274; p. 360.
Kraft, Louis, E., assignor to Fort Wayne Tire & Rubber Manufacturing Company, Fort Wayne, Ind. Pneumatic-tire tread. No. 55,057; May 4; v. 274; p. 143.
Kramer, John S., Steger, Ill. Combination-cabinet. No. 54,634; Mar. 9; v. 272; p. 332.
Krause, Herman, Lincoln, Nebr. Pennant. No. 56,700; Nov. 30; v. 280; p. 965.
Krauziewicz, Rozy, Pittsburgh, Pa. Bodice. No. 54,932; Apr. 20; v. 273; p. 577.
Kregling, Adolf, Stratford, Conn. Musical instrument. No. 55,058; May 4; v. 274; p. 143.
Krupicka, Ella, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 55,279–85; May 25; v. 274; p. 778.
Krupicka, Ella, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 55,519; June 22; v. 275; p. 777.
Krupicka, Ella, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 55,622; July 6; v. 276; p. 162.
Krupicka, Ella, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 55,949; Aug. 3; v. 277; p. 140.
Krupicka, Ella, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 56,177–9; Aug. 24; v. 277; p. 745.
Kuhlke, Otto J., assignor to The Amason Rubber Company, Akron, Ohio. Tire-tread. No. 56,619; Nov. 16; v. 280; p. 559.
Kuhlmann, Wesley W., Woodcliff-on-Hudson, N. J. Automobilist's hand-signal. No. 56,008; Aug. 10; v. 277; p. 336.
Kumalehto, Thyra O., assignor to Blanck & Company, Inc., New York, N. Y. Lace. No. 55,518; June 22; v. 275; p. 777.
Kumalehto, Thyra O., assignor to Blanck & Company, Inc., New York, N. Y. Lace. No. 56,180; Aug. 24; v. 277; p. 746.
Kumler, Harry F., and I. K. Rystedt, assignors to The Modern Comb and Device Company, Dayton, Ohio. Shell for a spark-plug. No. 55,133; May 11; v. 274; p. 360.
Kunkle, George R., assignor to The Garford Manufacturing Company, Elyria, Ohio. Phonograph-casing. No. 55181; May 18; v. 274; p. 557.
Kuns, Ray F., Cincinnati, Ohio. Child's toy vehicle. No. 54,933; Apr. 20; v. 273; p. 577.
Kurtzmann, Louis S., Buffalo, N. Y. Phonograph-case. No. 55,386; June 1; v. 275; p. 163.
Kusterer, Carl C. (See De Vries, H. E., and Kusterer.)
Kusmjak, Peter, Connellsville, Pa. Pair of tongs. No. 55,885; June 1; v. 275; p. 163.
Kvist, Oskar, Worcester, Mass. Ash-tray. No. 56,817; Dec. 28; v. 281; p. 747.
Lachman, Maurice, New York, N. Y., assignor to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel. No. 55,801; July 13; v. 276; p. 368.
La Croix, Juliet, Los Angeles, Calif. Pincushion. No. 54,934; Apr. 20; v. 273; p. 577.
La Fayette Motors Company. (See Simpson, Warren W., assignor.)
La Fayette Motors Company. (See White, D'Orsay, assignor.)
Lafitte, Cecile, New York, N. Y. Pincushion. No. 54,853; Apr. 13; v. 273; p. 347.
Lamb, Joseph F., assignor to Landers, Frary & Clark, New Britain Conn. Electric radiator. No. 54,635; Mar. 9; v. 272; p. 332.
Lamb, Joseph F., assignor to Landers, Frary & Clark, New Britain, Conn. Range. Nos. 54,636–8; Mar. 9; v. 272; pp. 332–3.
Lambert, Ruth E., and E. V. Strong, San Francisco, Calif. Doll. No. 56,818; Dec. 28; v. 281; p. 748.
Lamon-Gohl Company, The. (See Gohl, Adolph, assignor.)
Lamsom & Goodnow Manufacturing Company. (See Rowland, Arthur J., assignor.)
Landers, Frary & Clark. (See Lamb, Joseph F., assignor.)
Landreth, Harold B. (See Pratt, Loul M., assignor.)
Landry, Joseph L. P., Mont Joli, Quebec, Canada. Headlight-bracket. No. 55,182; May 18; v. 274; p. 557.
Landry, Joseph Louis P., Mont Joli, Quebec, Canada. Headlight-bracket. No. 54,935; Apr. 20; v. 273; p. 578.
Landwehr, Henry A., assignor to American Cement Products Company, Los Angeles, Calif. Post. No. 55,134; May 11; v. 274; p. 360.
Lang, Sidney H. (See Juthe, S. N. and Lang.)
Langhammer, Frank L. (See Warner, D. C., and Langhammer.)
Langlois, Arthur E., New Bedford, Mass. Pennant. No. 55,286; May 25; v. 274; p. 779.
Large, George C., assignor to Wear-Well Tire Company, Mahoningtown, Pa. Vehicle-tire. No. 55,059; May 4; v. 274; p. 143.
Larkin, Mary J. M., Worcester, Mass. Educational display-card. No. 56,440; Oct. 26; v. 279; p. 690.
Larkin, Thomas F., New York, N. Y. Sacramental candle. No. 56,441; Oct. 26; v. 279; p. 690.
Larsen, John M., assignor to Continental Machine and Foundry Company, Chicago, Ill. Casing for an ice-cream freezer. No. 56,561; Nov. 9; v. 280; p. 355.
Larson, Ragnar, Chicago, Ill. Boy's wagon. No. 55,660; May 4; v. 274; p. 144.
Lashar, Thomas B., Bridgeport, Conn., assignor to Associated Silver Company, Chicago, Ill. Spoon or similar article. No. 54,854; Apr. 13; v. 273; p. 347.
Lasier, Isabel C., Hollister, Mass. Middy-blouse. No. 55,950; Aug. 3; v. 277; p. 140.
Lauria, Vincenzo, Philadelphia, Pa. Shoe-last. No. 56,442; Oct. 26; v. 279; p. 690.
La Vanway, Olive L. (See La Vanway, Victor E. and O. L.)
La Vanway, Victor E. and O. L., assignors of one-half to F. Wayno, Tacoma, Wash. Child's velocipede. No. 55,865; July 20; v. 276; p. 553.
Lawler, Emery L., Youngstown, Ohio. Tire. No. 55,287; May 25; v. 274; p. 779.
Lawson Manufacturing Company. (See Kenney, John J., assignor.)
Leas, Warren R. (See Huthmaker, J. E., and Leas.)
Leavenworth, Seth H., assignor to The Van Bergh Silver Plate Company, Rochester, N. Y. Candelabrum. Nos. 55,183–5; May 18; v. 274; pp. 557–8.
Lebau, Louis, Pittsburgh, Pa. Gas-heater. No. 55,888; June 1; v. 275; p. 164.
Leckinger, Philip H., assignor to The High Speed Hammer Company, Inc., Rochester, N. Y. Drill-press frame. No. 55,387; June 1; v. 275; p. 163.

Digitized by Google

Alphabetical list of patentees of designs—Continued.

Le Clair, Frank J., Attleboro, assignor to Freeman-Daughaday Co., Chartley, Mass. Collar-holder. No. 56,238; Aug. 31; v. 277; p. 940.
Lederer, Hugo L., New York, N. Y. Doll. No. 55,866; July 20; v. 276; p. 553.
Ledig, Richard G., assignor to A. Mecky Company, Philadelphia, Pa. Guard for an electric heater. No. 54,520; Feb. 24; v. 271; p. 654.
Ledig, Richard G., assignor to A. Mecky Company, Philadelphia, Pa. Base for a stand of an electric heater. No. 56,009; Aug. 10; v. 277; p. 337.
Le Duc, Nancy B., Santa Monica, Calif. Button, brooch, badge, or similar article. No. 55,061; May 4; v. 274; p. 144.
Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Window in the back of automobile-bodies. No. 56,366; Oct. 5; v. 279; p. 139.
Lee, Daniel A., San Francisco, Calif. Phonograph-table. No. 56,701; Nov. 30; v. 280; p. 965.
Lee, Ira, Suction Cleaner Corporation. (See Sheffler, Ira L., assignor.)
Lee, William L., Helena, Mont. Toilet-paper holder. No. 56,254; Sept. 7; v. 278; p. 137.
Le Fevre, August, Detroit, Mich. Flag, pennant, sign, emblem, or article or a similar nature. No. 54,552; Mar. 2; v. 272; p. 139.
Lehman, Arthur H., Brooklyn, N. Y. Building-block. No. 54,424; Feb. 10; v. 271; p. 309.
Lehman, Max R., Quincy, Ill., assignor to Steiger & Kerr Stove & Foundry Company, San Francisco, Calif. Stove. Nos. 56,443–4; Oct. 26; v. 279; pp. 690–1.
Leijen, Gerard W. S., Middletown, Pa. Chair. No. 56,367; Oct. 5; v. 279; p. 139.
Lemborg, Theodor, Richmond, assignor to John Schumm, Concord, N. Y. Toy. No. 56,445; Oct. 26; v. 279; p. 691.
Lemborg, Theodor, Concord, assignor to John Schumm, Concord, N. Y. Toy. No. 56,446; Oct. 26; v. 279; p. 691.
Lesem, Isaac H., St. Louis, Mo. Hand or toilet fan. No. 55,062; May 4; v. 274; p. 144.
Leubner, Herman R. (See Stolzenburg, Walter F., and Leubner.)
Levett, Clarence M., New York, N. Y. Fan. No. 55,389; June 1; v. 275; p. 164.
Levin, Alexander, and J. Medin, Calumet, Mich. Watch-bracelet. No. 54,936; Apr. 20; v. 273; p. 578.
Levin, Joeseph, Baltimore, Md. Supporting-crown for parasols. No. 56,668; Nov. 23; v. 280; p. 755.
Leviola Talking Machine Sales Corporation. (See Coplan, Harry, assignor.)
Lewis, Theodore G., assignor to Buffalo Dental Manufacturing Company, Buffalo, N. Y. Dental flask. No. 54,425; Feb. 10; v. 271; p. 309.
Lewis, Theodore G., assignor to Buffalo Dental Manufacturing Company, Buffalo, N. Y. Dental-cotton holder. No. 56,181; Aug. 24; v. 277; p. 746.
Liberty Star Company. (See Cohen, Henry I., assignor.)
Lickert, John H., assignor to Kit-Chin-Kit Corporation, Evanston, Ill. Combination cleaver, perforator, and ice-pick. No. 56,010; Aug. 10; v. 277; p. 337.
Lickert, John H., assignor to Kit-Chin-Kit Corporation, Evanston, Ill. Household knife. No. 56,011; Aug. 10; v. 277; p. 337.
Lickert, John H., assignor to Kit-Chin-Kit Corporation, Evanston, Ill. Bread-knife. No. 56,012; Aug. 10; v. 277; p. 337.
Lickert, John H., assignor to Kit-Chin-Kit Corporation, Evanston, Ill. Arcing-knife. No. 56,013; Aug. 10; v. 277; p. 337.
Lickert, John H., assignor to Kit-Chin-Kit Corporation, Evanston, Ill. Garnishing-knife. No. 56,562; Nov. 9; v. 280; p. 356.
Lickert, John H., assignor to Kit-Chin-Kit Company, Evanston, Ill. Combined pastry knife and server. No. 56,669; Nov. 23; v. 280; p. 755.
Liberty Cone Company. (See Shalhoub, J., and Esselmann, assignors.)
Lidberg, Tiodolf, assignor to Chicago Surgical & Electrical Company, Chicago, Ill. Physician's table. No. 55,186; May 18; v. 274; p. 558.
Lieurance, William W., Seattle, Wash. Airship-body. No. 56,526; Nov. 2; v. 280; p. 147.
Lillie, Arthur C., Los Angeles, Calif. Windshield. No. 55,288; May 25; v. 274; p. 779.
Lillie, Arthur C., Los Angeles, Calif. Windshield. No. 55,802; July 13; v. 276; p. 369.
Lincoln Highway Tire Co. (See Ackles, Melvin S., assignor.)
Lion Electric Appliance Co. (See Ohm, Albert J. D., assignor.)
Lipshitz, Benjamin, Brooklyn, N. Y. Bedstead. No. 55,426; June 8; v. 275; p. 367.
Lipsky, Norman, New York, assignor to Artcraft Metal Stamping Corporation, Brooklyn, N. Y. Decoration of a lighting-fixture or similar article. Nos. 56,751–59; Dec. 14; v. 281; pp. 370–72.
Litzenberger, Carl, Denver, Colo. Flag, banner, or the like. No. 54,639; Mar. 9; v. 272; p. 333.
Lloyd, Frederic, assignor to Bates Manufacturing Company, Lewiston, Me. Quilt. No. 54,426; Feb. 10; v. 271; p. 309.
Lloyd, Marshall B., Menominee, Mich. Table or similar article. Nos. 56,182–3; Aug. 24; v. 277; p. 746.
Lloyd, Shirley S., New York, N. Y. Wall-paper. No. 55,951; Aug. 3; v. 277; p. 140.
Lloyd, Thomas, Boston, Mass. Sanitary fountain. No. 55,063; May 4; v. 274; p. 144.
Loadometer Company, The. (See Troll, Frederick J., assignor.)
Lobl, Frederick, Middleboro, Mass. Ice-bag ring. No. 54,553; Mar. 2; v. 272; p. 140.
Lockwood, John M., Jr., Jersey City, N. J. Doll. No. 54,427; Feb. 10; v. 271; p. 309.
Lockwood, Paul M., Kansas City, Mo. Tire-cover. No. 54,855; Apr. 13; v. 273; p. 347.
Lockwood, Paul M., Kansas City, Mo. Tire-cover. No. 55,475; June 15; v. 275; p. 570.
Lockwood, Paul M., Kansas City, Mo. Tire-cover. Nos. 55,803–4; July 13; v. 276; p. 369.
Lockwood, Paul M., Kansas City, Mo. Tire-cover. No. 56,071; Aug. 10, v. 277; p. 347.
Loeb-Strongson Corp. (See Strongson, Herman L., assignor.)
Loeb, William. (See Weiner, M., and Loeb.)
Loeffler, Severine G., Jr., Washington, D. C. Doughnut. No. 54,554; Mar. 2; v. 272; p. 140.
Loegler, Chretien, Clifton, N. J., assignor to Monica Textile Corporation. Textile fabric. No. 55,623; July 6; v. 276; p. 163.
Loewenberg, Isador E., Converse, Ind. Clothes-hamper. No. 55,289; May 25; v. 274; p. 779.
Loewenberg, Victor, New York, N. Y. Douche bed-pan. No. 54,856; Apr. 13; v. 273; p. 347.
Loftus, Edward M., New York, N. Y. Article of manufacture. No. 54,757; Mar. 23; v. 272; p. 691.
Lohr, Forest. (See Weible and Lohr.)
Lohr, Frederick W., New York, N. Y. Signal-casing. No. 54,428; Feb. 10; v. 271; p. 309.
Lohr, Jacob B., Lake View, Iowa. Hanging lamp. No. 56,447; Oct. 26; v. 279; p. 691.
Lohr, Jacob B., Lake View, Iowa. Pedestal-lamp. No. 56,448; Oct. 26; v. 279; p. 691.
Lonn, Edward J., assignor to Great Western Manufacturing Company, Laporte, Ind. Bicycle-frame. Nos. 55,624–5; July 6; v. 276; p. 163.
Lonn, Edward J., assignor to Great Western Manufacturing Co., Laporte, Ind. Bicycle mud-guard. No. 56,288; Sept. 14; v. 278; p. 317.
Lorentzen, Hans K., New York, N. Y. Flag-holder. No. 54,937; Apr. 20; v. 273; p. 578.
Lorenz, Samuel E. (See Harvey, S. M., and Lorenz.)
Lorenz, William A., assignor to The Otaka Fabric Company, Hartford, Conn. Crimped, craped, or crinkled paper or fabric. Nos. 56,819–23; Dec. 28; v. 281; p. 748.
Lorenz, William J., Cleveland, Ohio, assignor to Will & Baumer Company, Syracuse, N. Y. Candelabrum for devotional purposes. Nos. 55,476–8; June 15; v. 275; p. 570.
Loring, Helene V. A., Chicago, Ill. Playing-card. No. 56,072; Aug. 10; v. 277; p. 358.
Lothrop, Thomas M., Chicago, Ill., assignor to Angle Steel Stool Co., Otsego, Mich. Bench-leg. No. 54,640; Mar. 9; v. 272; p. 333.
Lovejoy, Ralph M., Meredith, N. H. Shock-absorber. No. 54,641; Mar. 9; v. 272; p. 333.
Lozier, Harry J., Spokane, Wash. Automobile-body. No. 56,289; Sept. 14; v. 278; p. 318.
Lubé, Henry, College Point, N. Y. Tone-arm for phonographs. No. 56,290; Sept. 14; v. 278; p. 318.
Ludwig, Theodore, New York, N. Y. Cake of soap. No. 56,702; Nov. 30; v. 280; p. 965.
Ludwig, Theodore, New York, N. Y. Cleaning, scouring, and polishing pad. No. 56,760; Dec. 14; v. 281; p. 372.
Luminous Unit Company. (See Owen, Raymond V., assignor.)
Lumley, Wilfrid, assignor to Conneaut Metal Works, Conneaut, Ohio. Lamp. No. 56,014; Aug. 10; v. 277; p. 338.
Luttinger, William G., Morenci, Ariz. Carbid-lamp cleaner. No. 55,290; May 25; v. 274; p. 779.
Luttringhaus, Walter, Maywood, Ill. Cooker-pot. No. 55,187; May 18; v. 274; p. 558.
Luttringhaus, Walter, Maywood, Ill. Preserving-kettle. No. 55,479; June 15; v. 275; p. 571.
Luttringhaus, Walter, Maywood, Ill. Berlin kettle. No. 55,480; June 15; v. 275; p. 571.
Lutz, John E., Blair, Nebr. Cemetery-lot coping. No. 55,064; May 4; v. 274; p. 144.
Lyman, Lucius B., Tallmadge, Ohio. Elastic vehicle-tire. No. 54,758; Mar. 23; v. 272; p. 691.
Lyon & Healy. (See Campbell, Donald, assignor.)
Lyon, Ossian G., Akron, assignor to Rayon Rubber Co., Ravenna, Ohio. Heel for a boot, shoe, or similar article. No. 54,938; Apr. 20; v. 273; p. 578.
McCabe, William F., New York, N. Y., assignor to Bigelow Hartford Carpet Company. Rug. Nos. 54,436–8; Feb. 10; v. 271; p. 311.
McCall, Joseph G. (See Cole, George F., assignor.)
McCargar, Rush, Seattle, Wash. Casing for a stage flood-light. No. 55,189; May 18; v. 274; p. 558.
McCauley, Joseph H. (See Tippett, Charles L., assignor.)

Digitized by Google

McClure, Samuel Q., Akron, Ohio. Dictaphone-record cabinet. No. 55,869; July 20; v. 276; p. 554.
McConnell, E. H., trustee. (See Fern, John A., assignor.)
McConnell, Emery H., Memphis, Tenn. Talking-machine. Nos. 56,291–8; Sept. 14; v. 278; p. 318.
McConnell, George C., assignor to Fidelity Tire & Rubber Co., Massillon, Ohio. Tire-tread or similar article. No. 55,190; May 18; v. 274; p. 559.
McDade, Andrew J., New York, N. Y. Calendar-mounting. No. 55,629; July 6; v. 276; p. 164.
McDade, Andrew J., Brooklyn, N. Y. Calendar-front. No. 56,371; Oct. 5; v. 279; p. 140.
McDonald, John B., East Liverpool, Ohio. Hollow china tableware article. No. 55,067; May 4; v. 274; p. 145.
McDonnell, George F., Charleston, and J. J. Dandoy, Dunbar, W. Va. Milk-jar. No. 55,068; May 4; v. 274; p. 145.
McElrath, Richards P., Lakewood, Ohio. Pneumatic tire. No. 55,630; July 6; v. 276; p. 164.
McGlasson, Clifford H., Washington, D. C. Ouija-board. No. 56,449; Oct. 26; v. 279; p. 691.
McGrevy, Jeremiah, assignor to Solidarity Watch Case Company, Brooklyn, N. Y. Watch case and bow. No. 55,136; May 11; v. 274; p. 361.
McGrevy, Jeremiah, assignor to Solidarity Watch Case Company, Brooklyn, N. Y. Watch case and bow. No. 55,870; July 20; v. 276; p. 554.
McIntyre, Edward F., assignor to Anti-Automobile Thief Association of America, Wichita, Kans. Association emblem-plate. No. 56,670; Nov. 23; v. 280; p. 755.
McIntyre, Hugh J., and W. J. Wakefield, Winnipeg, Manitoba, Canada. Game-board. No. 55,482; June 15; v. 275; p. 571.
McKee Glass Co. (See Sailer, George D., assigner.)
McKee, John J., East Orange, N. J. Naval service-flag No. 55,069; May 4; v. 274; p. 146.
McKeon, Neal J., Oakland, Calif. Manhole-cover. No. 56,015; Aug. 10, v. 277; p. 338.
McKimm, Earl L., Kansas City, Mo. Heel. No. 56,726; Dec. 7; v. 281; p. 165.
McKimm, Earl L., Kansas City, Mo. Heel. No. 56,826; Dec. 28; v. 281; p. 749.
McKinnie, Henry, Pittsburgh, Pa. Gaseous-fuel-burner support. No. 54,949; Apr. 20; v. 273; p. 580.
McKone, Charles W., assignor to The Gordon Tire & Rubber Company, Canton, Ohio. Automobile-tire. No. 56,750; Dec. 14; v. 281; p. 370.
McLane, Joseph A., assignor to The Armorcord Rubber Company, Morgantown, W. Va. Tread of vehicle-tires. No. 55,808; July 13; v. 276; p. 370.
McLaren, Alexander, Chicago, Ill. Ice-cream cone. Nos. 54,439–40; Feb. 10; v. 271; p. 311.
McLean, John C., Lakewood, Ohio, assignor to The McLean Tire and Rubber Company, East Liverpool, Ohio. Tire. No. 54,647; Mar. 9; v. 272; p. 634.
McLean, John C., Lakewood, assignor to The McLean Tire and Rubber Company, Cleveland, Ohio. Tire-tread. No. 56,299; Sept. 14; v. 278; p. 319.
McLean, John C., assignor to The McLean Tire & Rubber Company, Cleveland, Ohio. Tire. No. 56,300; Sept. 14; v. 278; p. 319.
McLean Tire and Rubber Company. (See McLean, John C., assignor.)
McMasters, William H., Allston, Mass. Flag, pennant, sign, emblem, or article of a similar nature. No. 55,297; May 25; v. 274; p. 781.
McMullan, Warner E. (See Hickey, H. J., and McMullan.)
McMullan, Warner E. (See Hickey, Henry J.)
McMullan, Warner E., and H. J. Hickey, Fort Dodge, Iowa. Guide device. No. 55,631; July 6; v. 276; p. 164.
McMullan, Warner E., and H. J. Hickey, Fort Dodge, Iowa. Highway-guide device. No. 56,102; Aug. 17; v. 277; p. 549.
McMullen, Charles. (See Miller, A. G., and McMullen.)
McPherson, Edwin M., Chicago, Ill. Medal, medallion, or luck-piece. No. 54,433; Feb. 10; v. 271; p. 310.
Maas, William F., assignor to Wood Specialties, Inc., Rochester, N. Y. Toy. No. 55,427; June 8; v. 275; p. 368.
Macbeth-Evans Glass Company. (See Hawe, William F. M., assignor.)
Macbeth, Norman, assignor to Artificial Daylighting Company Inc., New York, N. Y. Lamp-fixture. Nos. 54,429–31; Feb. 10; v. 271; p. 309.
MacBoyle, James W., Chicago, Ill. Doll. No. 54,939; Apr. 20; v. 273; p. 578.
Macdonald, Angus S., Great Neck Station, and F. Booth, New York, N. Y., assignors to The Snead & Co. Iron Works, Jersey City, N. J. Lamp-shade. No. 54,642; Mar. 9; v. 272; p. 334.
MacLellan, George W., Los Angeles, Calif. Button, badge, emblem, or similar article of manufacture. Nos. 54,643–4; Mar. 9; v. 272; p. 334.
MacLewee, Carrie H. (See MacLewee, William S., assignor.)
MacLewee, William S., assignor to C. H. MacLewee, Trenton, N. J. Electric lamp. No. 54,432; Feb. 10; v. 271; p. 310.
MacLewee, William S., assignor to C. H. MacLewee, Trenton, N. J. Shade for electric lamps. No. 55,291; May 25; v. 274; p. 780.
Macowsky, David. (See Miller, J., and Macowsky.)
Madison, William M., Cleveland, Ohio. Advertising and toy balloon. No. 56,078; Aug. 10; v. 277; p. 348.
Maechler, Walter, assignor to L. E. Daniels, Chicago, Ill. Meat-tendering implement. No. 55,481; June 15; v. 275; p. 571.
Maerz, Frederick K., assignor to The Scott-Ullman Co., Cleveland, Ohio. Wall-bracket. No. 55,390; June 1; v. 275; p. 164.
Mahin, Harold J., New York, N. Y. Bulletin-board. Nos. 55,626–7; July 6; v. 276; p. 163.
Mahin, Harold J., New York, N. Y., assignor to Syracuse Rubber Company, Inc., Syracuse, N. Y. Bulletin-board, No. 55,805; July 13; v. 276; p. 369.
Maise, Herman C., assignor, by mesne assignments, to Edward G. Budd Manufacturing Company, Springfield, Mass. Vehicle-body. Nos. 54,645–6; Mar. 9; v. 272; p. 334.
Majestic Electric Development Company. (See Schoenberg, M. H., and Henry, assignors.)
Malavarca, Eduardo, assignor to American Ocarina & Toy Co. Inc., Newark, N. J. Doll. No. 55,806; July 13; v. 276; p. 369.
Malek, August J. (See Johnson, Albert J., assignor.)
Malleable Iron Fittings Company, The. (See Pickop, George B., assignor.)
Mallinson, H. R., & Co. (See Blum, Albert, assignor.)
Malone, Adeline E., San Francisco, Calif. Doll. No. 55,428; June 8; v. 275; p. 368.
Malone, Dan, administrator. (See Judge, Virginia.)
Malone, Leon S., Rochester, Pa., assignor of one-half to N. H. H. De Ford, Baltimore, Md., and one-half to E. H. Finney, Evanston, Ill. Toy animal. Nos. 54,940–2; Apr. 20; v. 273; p. 578–9.
Malone, Leon S., Rochester, Pa., assignor of one-half to N. H. H. De Ford, Baltimore, Md., and one-half to E. H. Finney, Evanston, Ill. Toy bird. Nos. 54,943–4; Apr. 20; v. 273; p. 579.
Mangless, William A., Chicago, Ill. Phonograph-cabinet. No. 54,985; Apr. 27; v. 273; p. 765.
Mangless, William A., assignor to American Automatic Products Corporation, Chicago, Ill. Phonograph-cabinet. No. 54,857; Apr. 13; v. 273; p. 347.
Mangless, William A., assignor to American Automatic Products Corporation, Chicago, Ill. Phonograph-cabinet. Nos. 54,945–6; Apr. 20; v. 273; p. 580.
Mangless, William A., assignor to American Automatic Products Corporation, Chicago, Ill. Phonograph-cabinet. No. 54,986; Apr. 27; v. 273; p. 765.
Mantle Lamp Company of America, The. (See French, Ira L., assignor.)
Manzel, Charles W., Buffalo, N. Y. Body of an airship. No. 54,947; Apr. 20; v. 273; p. 580.
Marcus, Alex, Brooklyn, N. Y. Powder-cloth. No. 55,391; June 1; v. 275; p. 164.
Marcus, Alex, Brooklyn, N. Y. Powder-puff. No. 55,392; June 1; v. 275; p. 164.
Margerison, Albert E. (See Margerison, William H. and A. E.)
Margerison, William H. and A. E., Philadelphia, Pa. Terry towel. No. 56,824; Dec. 28; v. 281; p. 749.
Mariner, Joseph A., Chicago, Ill. Collar-holder. No. 55,568; June 29; v. 275; p. 980.
Marienthal, Isaac L., assignor to Modern Belt Co., Chicago, Ill. Merchandise-display stand. No. 56,369; Oct. 5; v. 279; p. 140.
Marks, Isidore, assignor to Keystone Manufacturing Company, Boston, Mass. Toy motion-picture machine. No. 55,107; May 4; v. 274; p. 152.
Marr, Franklin S., Canton, Ill. Puzzle. No. 54,759; Mar. 23; v. 272; p. 691.
Marsh, C. A., and Company. (See Rounseville, William E., assignor.)
Marsh, Edward A., Newton, assignor to Waltham Watch Company, Waltham, Mass. Timepiece-dial. Nos. 55,520—1; June 22; v. 275; p. 777.
Marsico, Gerard R., Brooklyn, N. Y. Automobile-horn casing. Nos. 55,292–5; May 25; v. 274; p. 780.
Mart, John W., assignor to The Cascade Tire and Rubber Company, Ravenna, Ohio. Tire. No. 56,620; Nov. 16; v. 280; p. 560.
Martin, Adolf, Trenton, N. J. Surface decoration for china, glass, or like articles. No. 55,807; July 13; v. 276; p. 369.
Martin, Edwin M., Cincinnati, Ohio. Banner. No. 54,948; Apr. 20; v. 273; p. 580.
Martin, James, New York, N. Y. Pneumatic tire shoe or tread. No. 54,434; Feb. 10; v. 271; p. 310.
Martin, John A., South Bend, Ind. Sewing-machine cabinet. No. 56,703; Nov. 30; v. 280; p. 965.
Mason, Charles E., Detroit, Mich., assignor to G. Waldref, Ramsey county, Minn. Manifold-bracket. No. 55,628; July 6; v. 276; p. 163.
Masonoff, Morris H. J., Kansas City, Mo. Housing for a spark-intensifier. No. 55,065; May 4; v. 274; p. 145.
Massing, Charles A., Millcreek township, Erie county, assignor to Griswold Manufacturing Company, Erie, Pa. Cooking-receptacle. No. 55,188; May 18; v. 274; p. 558.
Masuda, Kamekichi, Rock Springs, Wyo. Basket. No. 56,825; Dec. 28; v. 281; p. 749.
Matera, Alphonse, New York, N. Y. Bust-cover. No. 56,370; Oct. 5; v. 279; p. 140.
Mathieu, Frederick W. (See Strahan, G. V., and Mathieu.)

Digitized by Google

Alphabetical list of patentees of designs—Continued.

Mathieu, Frederick W., New York, N. Y. Globe for lighting-fixtures. No. 55,296; May 25; v. 274; p. 780.
Mathieu, Frederick W., assignor to Mitchell Vance Co., Inc., New York, N. Y. Globe for lighting-fixtures. No. 56,074; Aug. 10; v. 277; p. 348.
Mathieu, Frederick W., assignor to Mitchell Vance Co., Inc., New York, N. Y. Holder for a lighting-fixture. No. 55,075; Aug. 10; v. 277; p. 348.
Mattern, George W., assignor to The Crawford, McGregor and Canby Company, Dayton, Ohio. Striking-face for a golf-club head. No. 55,867; July 20; v. 276; p. 553.
Maxwell, John S., Richmond, Ind. Balloon-valve. No. 55,135; May 11; v. 274; p. 361.
Mayer, Josh W., New York, N. Y. Jewel-setting. No. 55,952; Aug. 3; v. 277; p. 140.
Mecky, A., Company. (See Ledig, Richard G., assignor.)
Medin, Joseph. (See Levin, A., and Medin.)
Medvetz, Steve, Homer City, Pa. Christmas-tree ornament. No. 56,372; Oct. 5; v. 279; p. 140.
Meerse, Adrian J., and A. J. Doren, Ogallala, Nebr. Rocking-horse. No. 54,435; Feb. 10; v. 271; p. 310.
Meldram, Minnie M., New York, N. Y. Doll. No. 55,569; June 29; v. 275; p. 980.
Melick, Gregor, New York, N. Y. Mutual advertising bond. No. 56,527; Nov. 2; v. 280; p. 147.
Melville Shoe Corporation, The. (See Melville, Ward, assignor.)
Melville, Ward, assignor to The Melville Shoe Corporation, New York, N. Y. Shoe-heel. No. 55,393; June 3; v. 275; p. 164.
Meltz, Julius B., assignor to Everett Machine & Manufacturing Company, Everett, Mass. Ice-cream cone or similar article. No. 55,868; July 20; v. 276; p. 554.
Mendelsohn, Herman T., assignor to Simon & Mendelsohn, New York, N. Y. Article of manufacture. Nos. 56,373–4; Oct. 5; v. 279; p. 140.
Mergenthaler Linotype Company. (See Jacobs, Samuel A., assignor.)
Mergott, J. E., Company, The. (See Fuller, Franz A., assignor.)
Merkel, H., West Springfield, and R. W. Guy, Longmeadow, Mass. Metal sponge-cup. No. 56,621; Nov. 16; v. 280; p. 560.
Merkel, Howard, West Springfield, and R. W. Guy, Longmeadow, Mass. Metal sponge-cup. No. 56,101; Aug. 17; v. 277; p. 549.
Mertz, Otto L., assignor to J. H. Benjamin, Chicago, Ill. Package-tie. Nos. 56,016–18; Aug. 10; v. 277; p. 338.
Mesrines, Henry M. (See de Lautreppe, A., and Mesrines.)
Messer, Charles J., Syracuse, N. Y. Candle. No. 55,066; May 4; v. 274; p. 145.
Metallograph Corporation, The. (See Erdoes, J., and Sas, assignors.)
Metcalf, Ernest H., Marlboro, N. H. Inhaler. No. 54,987; Apr. 27; v. 273; p. 765.
Metzger, Myer, Chicago, Ill. Combined vending and display stand. No. 55,809; July 13; v. 276; p. 370.
Meyer, Felix, assignor to Blanck & Company, Inc., New York, N. Y. Lace. Nos. 54,821–2; Apr. 6; v. 273; p. 180.
Meyer, Felix, assignor to Blanck & Company, Inc., New York, N. Y. Lace. No. 55,522; June 22; v. 275; p. 777.
Meyer, Felix, assignor to Blanck & Company, Inc., New York, N. Y. Lace. Nos. 56,827–31; Dec. 28; v. 281; p. 749.
Meyer, Peter H., Buffalo, N. Y. Combined paper-weight and magnifying-glass. No. 55,682; July 6; v. 276; p. 164.
Meyer, William H., assignor to Blue Bird Manufacturing Company, St. Louis, Mo. Washing-machine case. No. 54,441; Feb. 10; v. 271; p. 311.
Meyers, Louis, & Son. (See Benjamin, Schuyler, assignor.)
Meyerson, Morris, Jacksonville, Fla. Punch. No. 54,648; Mar. 9; v. 272; p. 335.
Miles, Harry B., Elwood, Victoria, Australia. Talking-machine cabinet. No. 55,871; July 20; v. 276; p. 554.
Miller, Abraham, New York, N. Y. Arm for lighting-fixtures. No. 56,076; Aug. 10; v. 277; p. 348.
Miller, Alphons G., and C. McMullen, Flemington, N. J. Lens. No. 55,191; May 18; v. 274; p. 559.
Miller-Chapman Company. (See Chapman, Earle E., assignor.)
Miller, Edward, & Co. (See Walter, Herman H., assignor.)
Miller, Harry A., Los Angeles, Calif. Automobile. No. 55,070; May 4; v. 274; p. 146.
Miller, Jacob, West Falls, N. Y. Clothesline-clamp. No. 55,953; Aug. 3; v. 277; p. 140.
Miller, Julius, and D. Macowsky, San Francisco, Calif. Child's romper. No. 56,450; Oct. 26; v. 279; p. 692.
Miller, Morris S., Cleveland, Ohio. Hand-stamp. No. 55,137; May 11; v. 274; p. 361.
Miller, Pearl E., Fort Worth, Tex. Feeding-cup for rabbits. No. 56,761; Dec. 14; v. 281; p. 372.
Miller, Samuel, New York, N. Y. Arm for lighting-fixtures. Nos. 56,077–8; Aug. 10; v. 277; p. 348.
Miller, Theodore D., Verona, N. J. Hook for costumiers and the like. Nos. 56,671–5; Nov. 23; v. 280; pp. 756–7.
Millikan, W. H. (See Allard, Maurice L. H. A., assignor.)
Milwaukee Ice Machine Company. (See Olsen, Edwin, assignor.)
Minier, William H., assignor to The K-M Manufacturing Company, Toledo, Ohio. Windshield-wiper. No. 56,762; Dec. 14; v. 281; p. 372.
Minnesota Stove Company, The. (See Nye, Charles W., assignor.)
Minton, Gustave M., New York, N. Y. Smoker's stand. No. 54,509; Feb. 17; v. 271; p. 502.
Minton, Gustave M., New York, N. Y. Smoker's tray. Nos. 54,649–50; Mar. 9; v. 272; p. 335.
Minton, Gustave M., New York, N. Y. Ash-tray and cigar-lighter. No. 54,651; Mar. 9; v. 272; p. 335.
Minton, Gustave M., New York, N. Y. Cigar and cigarette tray. No. 54,652; Mar. 9; v. 272; p. 335.
Minton, Gustave M., New York, N. Y. Smoker's tray. Nos. 54,653–4; Mar. 9; v. 272; p. 335.
Minton, Gustave M., New York, N. Y. Ash-tray and cigar-lighter. No. 54,655; Mar. 9; v. 272; p. 335.
Minton, Gustave M., New York, N. Y. Smoker's tray. Nos. 54,656–61; Mar. 9; v. 272; p. 336.
Minton, Gustave M., New York, N. Y. Smoker's stand. Nos. 54,662–4; Mar. 9; v. 272; pp. 336–7.
Minton, Gustave M., New York, N. Y. Smoker's tray. Nos. 54,665–6; Mar. 9; v. 272; p. 337.
Mitchell, Edward P., assignor to Scott-Ullman Company, Cleveland, Ohio. Lighting-fixture. No. 56,451; Oct. 26; v. 279; p. 692.
Mitchell, Samuel, New York, N. Y. Ring. No. 56,184; Aug. 24; v. 277; p. 746.
Mitchell Vance Co. (See Mathieu, Frederick W., assignor.)
Mitchell Vance Co. (See Strahan, G. V., and Mathieu, assignors.)
Mitchell Vance Company. (See Strahan, George V., assignor.)
Mix, Melville, W., Mishawaka, Ind. Phonograph-cabinet. No. 55,298; May 25; v. 274; p. 781.
Mizer, Joseph J., and V. Jacob, assignors to Walker Manufacturing Company, Racine, Wis. Lifting-jack. No. 54,442; Feb. 10; v. 271; p. 312.
Modern Belt Company. (See Marienthal, Isaac L., assignor.)
Modern Comb and Device Company, The. (See Kumler, H. F., and Rystedt, assignors.)
Moffat, Frederick W., assignor to The Moffat Stove Company Limited, Weston, Ontario, Canada. Insulator-porcelain for electric ovens. No. 55,071; May 4; v. 274; p. 146.
Moffat Stove Company, The. (See Moffat, Frederick W., assignor.)
Monica Textile Corporation. (See Loegler, Chretien, assignor.)
Monkhouse, Frederick C., Rochester, N. Y. Rattle. Nos. 55,633–4; July 6; v. 276; p. 164.
Montana, Pietro, Brooklyn, N. Y. Statue. No. 55,872; July 20; v. 276; p. 554.
Monteleone, Ernest, Jersey City, N. J. Toy aeroplane. No. 56,185; Aug. 24; v. 277; p. 747.
Montgomery, Donn H., Denver, Colo. Automobile. Nos. 56,019–20; Aug. 10; v. 277; p. 338.
Montgomery, Henry S., Topeka, Kans. Dial for time-pieces. No. 54,950; Apr. 20; v. 273; p. 580.
Montgomery, Henry S., Topeka, Kans. Time-piece-dial. No. 55,523; June 22; v. 275; p. 777.
Moolten, Theodore A., New York, N. Y. Spat. No. 55,394; June 1; v. 275; p. 165.
Moor, Herbert H., Davenport, Iowa. Radiator-cap ornament. No. 55,072; May 4; v. 274; p. 146.
Moore, David C., Cleveland, Ohio. Radiator-inclosure. No. 56,255; Sept. 7; v. 278; p. 137.
Moore, Edward, Colonie, and S. F. Welsh, Delmar, N. Y. Cow-tail holder. No. 54,667; Mar. 9; v. 272; p. 337.
Moore, Emmet K., assignor to National Carbon Company, Inc., New York, N. Y. Sales-case. No. 56,452; Oct. 26; v. 279; p. 692.
Moore, Erastus G., Long Beach, Calif. Aeroplane-coaster. No. 55,636; July 6; v. 276; p. 165.
Moore, Frank S., Woodhaven, N. Y. Toy horn. No. 56,832; Dec. 28; v. 281; p. 750.
Moore, Jesse C., Indianapolis, Ind. Combination school-desk. No. 55,570; June 29; v. 275; p. 980.
Moore, William J. P., New York, N. Y. Chassis for automobiles and other vehicles. Nos. 54,443–4; Feb. 10; v. 271; p. 312.
Moran, May. (See Benvenuti, Julius D., assignor.)
Morbach, John P. (See Zipp, John, and Morbach.)
Morea, Peter, Woodside, N. Y. Picture-frame. No. 55,635; July 6; v. 276; p. 165.
Morris, Edgar L., St. Louis, Mo., assignor to United States Sanitary Specialties Corporation, Chicago, Ill. Liquid-soap dispenser. No. 56,079; Aug. 10; v. 277; p. 349.
Morrison, James, assignor to The Owens Bottle Company, Toledo, Ohio. Bottle. No. 54,977; Apr. 20; v. 273; p. 585.
Morrison, James C., Highland Park, assignor to Nyal Company, Detroit, Mich. Container. No. 54,951; Apr. 20; v. 273; p. 581.
Morrison, Ralph W., Omaha, Nebr. Phonograph-cabinet. No. 55,073; May 4; v. 274; p. 146.
Morse, Leo, New York, N. Y. Figure toy. No. 55,810; July 13; v. 276; p. 370.

Digitized by Google

Morton, Elvin D., Indianapolis, Ind. Speedway-body for motor-vehicles of the Ford type. No. 54,668; Mar. 9; v. 272; p. 337.

Mount Vernon Company, Silversmiths, The. (See Greene, Frederick E., assignor.)

Moyer, George A., Syracuse, assignor to The Cleveland Candle Company, Cleveland, N. Y. Candle. No. 56,021; Aug. 10; v. 277; p. 339.

Mueller, John C., St. Louis, Mo. Wall-coping. No. 56,704; Nov. 30; v. 280; p. 966.

Mueller, Paul O., assignor of one-half to W. C. Mueller, Brooklyn, N. Y. Spool-holder. No. 55,637; July 6; v. 276; p. 165.

Mueller, Ralph S., Cleveland Heights, Ohio. Test-clip. No. 55,524; June 22; v. 275; p. 778.

Mueller, William C. (See Mueller, Paul O., assignor.)

Mullvain, Earnest E., Berkeley, Calif. Automobile-signal. No. 54,445; Feb. 10; v. 271; p. 312.

Munson, Porter W., St. Louis, Mo. Roller toy. No. 54,760; Mar. 23; v. 272; p. 691.

Munson, Porter W., St. Louis, Mo. Clown toy. No. 56,705; Nov. 30; v. 280; p. 966.

Munson, Porter W., St. Louis, Mo. Rocker toy. No. 56,706; Nov. 30; v. 280; p. 966.

Murchison, Kenneth M., New York, N. Y. Kitchenette. No. 54,446; Feb. 10; v. 271; p. 313.

Murliess, Charles S., Holyoke, Mass. Dentist and surgeon cabinet. No. 56,622; Nov. 16; v. 280; p. 560.

Murray, C. Edward, Jr., assignor to Empire Rubber & Tire Company, Trenton, N. J. Tire. Nos. 54,555–6; Mar. 2; v. 272; p. 140.

Murray, James G. (See Sawders, F. P., and Murray.)

Murray, Mayme, Akron, Ohio. Novelty doll. No. 56,375; Oct. 5; v. 279; p. 141.

Muxen, Matthew B., Fort Wayne, Ind., assignor to Tokheim Oil Tank and Pump Company. Casing for a dispensing apparatus. No. 55,873; July 20; v. 276; p. 554.

Nason, George B., assignor to Champion Spark Plug Company, Toledo, Ohio. Display-cabinet. No. 56,768; Dec. 14; v. 281; p. 373.

Nass, Willis I., Grand Rapids, Mich. Artificial bait. No. 56,707; Nov. 30; v. 280; p. 966.

National Bundle Tyer Company. (See Saxton, A. H., and Bachmayer, assignors.)

National Carbon Company. (See Moore, Emmet K., assignor.)

National Enameling & Stamping Company. (See Kleckhefer, Alfred J., assignor.)

National Lace & Embroidery Company. (See Schmid, Werner, assignor.)

National Sanitary Street System. (See Richardson, George J., assignor.)

Nay, Howard E., Wheeling, W. Va. Badge, button, or emblem. No. 54,761; Mar. 23; v. 272; p. 692.

Neble, Arnold, Weehawken, N. J. Doll-head. No. 55,074; May 4; v. 274; p. 146.

Neilsen, Alice, St. Louis Park, Minn. Paper-weight. No. 55,299; May 25; v. 274; p. 781.

Neldner, Wincent, Milwaukee, Wis. Knife. No. 54,669; Mar. 9; v. 272; p. 337.

Nellis, Charles Y., Greenville, Ohio. Phonograph-cabinet. No. 54,988; Apr. 27; v. 273; p. 766.

Nelson, Baker & Company. (See Hall, George, assignor.)

Nelson, Einar J., Tacoma, Wash. Barber's combination work-table. No. 56,186; Aug. 24; v. 277; p. 747.

Nelson, Mark B., Los Angeles, Calif. Child's coaster. No. 54,447; Feb. 10; v. 271; p. 312.

Nemser, Joseph, New York, N. Y. Dress. No. 55,638; July 6; v. 276; p. 165.

New York Stamping Company. (See Easby, Thomas B., assignor.)

Newburgh, Charles J., Chicago, Ill. Glass cover-plate for headlight-lamps. No. 54,858; Apr. 13; v. 273; p. 348.

Newland, Barnet, New York, N. Y. Arm for electric, gas, and combined fixtures. Nos. 56,403–4; Oct. 19; v. 279; p. 498.

Newland, Barnet, New York, N. Y. Stem-spindle for lighting-fixtures. No. 56,453; Oct. 26; v. 279; p. 692.

Newland, Barnet, New York, N. Y. Finial for lighting-fixtures. No. 56,454; Oct. 26; v. 279; p. 692.

Newland, Barnet, New York, N. Y. Stem-spindle for lighting-fixtures. No. 56,455; Oct. 26; v. 279; p. 692.

Newland, Barnet, New York, N. Y. Stem-loop for chandeliers. No. 56,456; Oct. 26; v. 279; p. 692.

Newland, Barnet, New York, N. Y. Canopy for lighting-fixtures. No. 56,457; Oct. 26; v. 279; p. 693.

Newland, Barnet, New York, N. Y. Candle-cup for lighting-fixtures. No. 56,458; Oct. 26; v. 279; p. 693.

Newland, Barnet, New York, N. Y. Body-plate for lighting-fixtures. No. 56,459; Oct. 26; v. 279; p. 693.

Newland, Barnet, New York, N. Y. Stem-loop for chandeliers. No. 56,460; Oct. 26; v. 279; p. 693.

Newland, Barnet, New York, N. Y. Electric socket-cup. No. 56,461; Oct. 26; v. 279; p. 693.

Newland, Barnet, New York, N. Y. Bracket-back for lighting-fixtures. No. 56,462; Oct. 26; v. 279; p. 693.

Newland, Barnet, New York, N. Y. Arm for lighting-fixtures. No. 56,463; Oct. 26; v. 279; p. 693.

Newland, Barnet, New York, N. Y. Plate for lighting-fixtures. No. 56,464; Oct. 26; v. 279; p. 694.

Newland, Barnet, New York, N. Y. Arm for lighting-fixtures. No. 56,465; Oct. 26; v. 279; p. 694.

Newland, Barnet, New York, N. Y. Chandelier. Nos. 56,466–7; Oct. 26; v. 279; p. 694.

Newland, Barnet, New York, N. Y. Arm for lighting-fixtures. Nos. 56,528–9; Nov. 2; v. 280; p. 148.

Newton, Charles H., Plainville, Conn. Valve-spring compressor. No. 56,708; Nov. 30; v. 280; p. 966.

Newton, Ollie C., Carterville, Ga. Light. No. 54,952; Apr. 20; v. 273; p. 581.

Newton, William J., assignor to Harvey Hubbell, Incorporated, Bridgeport, Conn. Toggle switch-plate. No. 56,022; Aug. 10; v. 277; p. 339.

Newton, William J., assignor to Harvey Hubbell, Incorporated, Bridgeport, Conn. Double toggle switch-plate. No. 56,023; Aug. 10; v. 277; p. 339.

Nicar, Ted, South Bend, Ind. Rubber heel. No. 54,859; Apr. 13; v. 273; p. 348.

Nicholas, Lorena B., Los Angeles, and F. H. Heine, Santa Ana, Calif. Toy aeroplane. No. 54,860; Apr. 13; v. 273; p. 348.

Nicholas, Lorena B., Los Angeles, and F. H. Heine, Santa Ana, Calif. Toy aeroplane. No. 55,075; May 4; v. 274; p. 147.

Nicholson, Harry B., assignor to The Ver-Vac Company, Baltimore, Md. Bottle. No. 56,301; Sept. 14; v. 278; p. 319.

Nichthauser, Charles A., New York, N. Y. Purse. Nos. 55,192–3; May 18; v. 274; p. 559.

Nichthauser, Charles A., New York, N. Y. Purse. No. 55,300; May 25; v. 274; p. 781.

Niederer, Walter D., Hayden, Ariz. Article of jewelry. No. 54,448; Feb. 10; v. 271; p. 313.

Niederer, Walter D., Prescott, Ariz. Necktie. No. 54,953; Apr. 20; v. 273; p. 581.

Nielsen, Marius, Granville, Ohio. Pin. No. 56,024; Aug. 10; v. 277; p. 339.

Nightingale Manufacturing Company. (See Wolper, Harry B., assignor.)

Noble Heater Company, The. (See Bartholomew, Gilbert A., assignor.)

Noël, Nelson, New Bedford, Mass. Pennant. No. 54,762; Mar. 23; v. 272; p. 692.

Noirot, Leo F. and O. G., Peoria, Ill. Toy rocker. No. 55,429; June 8; v. 275; p. 368.

Noirot, Leo F. and O. G., Peoria, Ill. Child's vehicle. No. 55,874; July 20; v. 276; p. 555.

Noirot, Otto G. (See Noirot, Leo F. and O. G.)

Noma Motor Corporation. (See Walton, Wirt W., assignor.)

Noonan, Frank M., Boston, Mass. Footrest. No. 54,670; Mar. 9; v. 272; p. 337.

Norman, Denham G., Stoke-upon-Trent, England, assignor to William S. Pitcairn Corporation, New York, N. Y. Dish. No. 54,954; Apr. 20; v. 273; p. 581.

Norris, Frank. (See Dunbar, I., and Norris.)

Norris, Paul E., Wilkinsburg, Pa. Battery-plate-supporting tray. No. 56,676; Nov. 23; v. 280; p. 757.

North American Lace Company. (See Daudy, Marc H., assignor.)

Norwood Novelty Co. (See Connor, George A., assignor.)

Novak, John J., Omaha, Nebr. Automobile-tire or similar article. Nos. 55,301–2; May 25; v. 274; p. 781.

Novelty Cup & Cone Company. (See Winder, Samuel E., assignor.)

Nowacki, Stanley T., Marlin, Tex. Mirror. No. 56,025; Aug. 10; v. 277; p. 339.

Nowak, Walter J., Gary, Ind. Statuette. No. 55,525; June 22; v. 275; p. 778.

Nutrizio, Henry J., New York, N. Y. Display-shelf support. No. 54,671; Mar. 9; v. 272; p. 338.

Nutry, John, Ridgewood, N. J. Bank. No. 54,763; Mar. 23; v. 272; p. 692.

Nyal Company. (See Morrison, James C., assignor.)

Nye, Charles W., Minneapolis, Minn., assignor to The Minnesota Stove Company. Range. No. 54,557; Mar. 2; v. 272; p. 140.

Nystrom, Martin, assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Top plate for a phonograph-motor. No. 55,194; May 18; v. 274; p. 559.

Obrecht, Frances, Flint, Mich. Sammy Sandman doll. No. 55,076; May 4; v. 274; p. 147.

O'Brien, Joseph E., Springfield, Mass. Pouring device. No. 55,395; June 1; v. 275; p. 165.

O'Connell, Maurice, Wilkes-Barre, Pa. Flag. No. 56,376; Oct. 5; v. 279; p. 141.

Oestreicher, Maurice, New York, N. Y. Article of manufacture. Nos. 54,558–9; Mar. 2; v. 272; pp. 140–1.

O'Hearn, George E., assignor to Heywood Brothers and Wakefield Company, Gardner, Mass. Baby-carriage handle-bar. No. 54,672; Mar. 9; v. 272; p. 338.

Ohio Brass Company, The. (See Austin, Arthur O., assignor.)

Ohm, Albert J. D., Astoria, assignor to Lion Electric Appliance Co., Brooklyn, N. Y. Electric lamp. Nos. 55,430–2; June 8; v. 275; p. 368.

Ohm, Albert J. D., Astoria, Oreg., assignor to Lion Electric Appliance Co., Brooklyn, N. Y. Electric lamp. No. 55,954; Aug. 3; v. 277; p. 140.

Okamuro, Kenjiro, Honolulu, Hawaii. Hook. No. 55,483; June 15; v. 275; p. 572.

Digitized by Google

Alphabetical list of patentees of designs—Continued.

Olcott, Harlow O., Batavia, N. Y. Support for spools or similar articles. No. 56,530; Nov. 2; v. 280; p. 148.
Olsen, Edwin, assignor, by mesne assignments, to Milwaukee Ice Machine Company, Milwaukee, Wis. Condenser and motor and compressor base. No. 56,302; Sept. 14; v. 278; p. 319.
Olson, Charles O. (See Osborn, Wentworth E., assignor.)
O'Neil, James A., Lynn, Mass., assignor to General Electric Company, New York. Canopy for a lamp-globe. No. 55,303; May 25; v. 274; p. 781.
Onufryk, Andrew, Rochester, N. Y. Dining-cutlery holder. No. 55,639; July 6; v. 276; p. 166.
Oppenheim, David, New York, N. Y. Barber's chair for children. No. 54,764; Mar. 23; v. 272; p. 697.
Orcutt, Leon F., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 55,804–8; May 25; v. 274; p. 782.
Orcutt, Leon F., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 55,526; June 22; v. 275; p. 778.
Orcutt, Leon F., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 56,187–9; Aug. 24; v. 277; p. 747.
Ordway, Lewis H., Haverhill, Mass. Shoe ornament. No. 56,727; Dec. 7; v. 281; p. 165.
O'Reilly, Joseph F., Oakland, Calif. Bolt. Nos. 56,303–4; Sept. 14; v. 278; p. 320.
Orkin, Samuel, Arlington, Mass. Child's toy. No. 54,765; Mar. 23; v. 272; p. 692.
Orsenigo, Henry, Mount Vernon, N. Y. Phonograph-cabinet. No. 55,527; June 22; v. 275; p. 778.
Orsenigo, Henry, Mount Vernon, N. Y. Phonograph-cabinet. Nos. 55,875–9; July 20; v. 276; p. 555.
Osborn, Wentworth E., Glen Morris, N. Y., assignor of one-half to C. O. Olson, Brooklyn, N. Y. Watch-charm. No. 56,563; Nov. 9; v. 280; p. 356.
Ostenberg, Daisy, San Jose, Calif. Doll. No. 54,766; Mar. 23; v. 272; p. 692.
Otaka Fabric Company, The. See Lorenz, William A., assignor.)
Otte, Otho M., Tarentum, Pa. Light diffusing and projecting attachment for automotive lamps. Nos. 55,309–11; May 25; v. 274; p. 782.
Ouellette, Alfred J. (See Smith, H. B., Thomas, and Ouellette.)
Ouzoun-Boghossian, Sissak K., Washington, D. C. Typewriter-frame. Nos. 55,811–12; July 13; v. 276; p. 370.
Overland Tire and Rubber Co., The. (See Allard, Maurice L. A. A., assignor.)
Oversmith, Elmer H., assignor to Buffalo Truck & Tractor Corporation, Buffalo, N. Y. Radiator. No. 55,312 May 25; v. 274; p. 783.
Owen, Raymond V., assignor to St. Louis Brass Manufacturing Company, St. Louis, Mo. Lighting-fixture. Nos. 54,510–12; Feb. 17; v. 271; pp. 502–3.
Owen, Raymond V., assignor to Luminous Unit Company, St. Louis, Mo. Lamp-shade. No. 55,195; May 18; v. 274; p. 559.
Owen, William C. (See Tinsman, Edgar A., assignor.)
Owen, William C., Cleveland, Ohio. Tire-casing. Nos 55,313–15; May 25; v. 274; p. 783.
Owen, William C., Cleveland, Ohio. Tire-casing. No. 55,813; July 13; v. 276; p. 370.
Owen, William C., Cleveland, assignor to The Standard Tire Company, Willoughby, Ohio. Tire-casing. No. 56,468; Oct. 26; v. 279; p. 695.
Owens Bottle Company, The. (See Morrison, James, assignor.)
Owens, Frank B. (See Blair, James B., assignor.)
Owl Cigar Lighter Co. (See White, Harold S., assignor.)
Ozlek, Morris, Philadelphia, Pa. Cluster-top for lamps. No. 56,677; Nov. 23; v. 280; p. 757.
P-A-T-S Manufacturing Company. (See Will, Victor R., assignor.)
P. R. B. Pump Company. (See Price, Stephen C., assignor.)
Page, Samuel D., Des Moines, Iowa. Pad-rack. No. 55,077; May 4; v. 274; p. 147.
Paine, Arthur P., assignor to Winchester Repeating Arms Company, New Haven, Conn. Battery hand-lamp. No. 55,571; June 29; v. 275; p. 980.
Pajeau, Charles H., Evanston, Ill. Toy rattle. No. 55,880; July 20; v. 276; p. 556.
Pajeau, Charles H., Evanston, Ill. Doll. No. 55,881; July 20; v. 276; p. 556.
Palm Brothers Company, The. (See Klenk, Charles, assignor.)
Palmer, Theron R., Erie, Pa. Tire. No. 54,560; Mar. 2; v. 272; p. 141.
Pancoast, William G., and W. J. Grotenhuis, Chicago, Ill., assignors to Bifex Products Company, Waukegan, Ill. Automobile-bumper. No. 55,484; June 15; v. 275; p. 575.
Parker, Frederick R., Chicago, Ill. Tobacco-pipe. No. 56,564; Nov. 9; v. 280; p. 356.
Parker, Mayne C. P., Towanda, Pa. Wheeled toy. No. 56,469; Oct. 26; v. 279; p. 695.
Parker, Paul P., assignor to Parker Tire & Rubber Company, Indianapolis, Ind. Automobile-tire. No. 54,955; Apr. 20; v. 273; p. 581.
Parker Tire & Rubber Company. (See Parker, Paul P., assignor.)
Parkford, Edwin A., *et al.* (See Williams, Ardie, assignor.)
Parkin, Victor, Patton, Calif. Orange-peeler. No. 56,678; Nov. 23; v. 280; p. 757.
Pascucci, Emilio. (See Gage, H. P., and Pascucci.)
Pasecky, Karl, Washington, D. C. Toy animal. No. 55,078; May 4; v. 274; p. 147.
Pasquarelli, Menotti F., San Francisco, Calif. Shoe. No. 55,814; July 13; v. 276; p. 371.
Patchogue Manufacturing Company. (See Eberhart, Paul, assignor.)
Pattee, Ethel L., Arlington, Mass. Child's apron. No. 54,767; Mar. 23; v. 272; p. 693.
Patterson, Robert A., Chicago, Ill. Statuette. No. 55,316; May 25; v. 274; p. 784.
Paull, Wallace H., Birmingham, England, assignor to The Dunlop Rubber Company, Ltd., London, England. Tire-tread. No. 56,623; Nov. 16; v. 280; p. 560.
Payne, Olney R., Philadelphia, Pa. Toy garage. No. 55,485; June 15; v. 275; p. 572.
Payton, Harry, Providence, R. I. Emblem, badge, button, or similar article. No. 56,624; Nov. 16; v. 280; p. 560.
Pearson, Carl J. and S. L. M., Chicago, Ill. Phonograph-casing. No. 56,305; Sept. 14; v. 278; p. 320.
Pearson, Carl J. and S. L. M., Chicago, Ill. Phonograph-casing. Nos. 56,377–8; Oct. 5; v. 279; p. 141.
Pearson, Sigrid L. M., Chicago, Ill. Phonograph-casing. No. 55,196; May 18; v. 274; p. 560.
Pearson, Sigrid L. M., Chicago, Ill. Phonograph-casing. No. 56,026; Aug. 10; v. 277; p. 339.
Pearson, Sigrid L. M. (See Pearson, Carl J. and S. L. M.)
Pease, Ephraim S., Buffalo, N. Y. Glass knife. No. 56,764; Dec. 14; v. 281; p. 373.
Peerless Rubber Manufacturing Company. (See Heyman, Albert C., assignor.)
Pelgrem & Meyer. (See Frank, David C., assignor.)
Pelland, Hermas, assignor of one-half to M. Dignard, Toronto, Ontario, Canada. Motor-driven vehicle. No. 54,674; Mar. 9; v. 272; p. 338.
Pennington, Andrew J., assignor to U. S. Compression Inner Tube Company, Tulsa, Okla. Tire. Nos. 56,103–5; Aug. 17; v. 277; p. 549.
Pennsy Watch Company. (See Friedman, Alexander, assignor.)
Peoples, Walter R., Rochester, N. Y. Toy vehicle. No. 55,317; May 25; v. 274; p. 784.
Peoples, Walter R., Rochester, N. Y. Toy vehicle. Nos. 55,433–4; June 8; v. 275; p. 369.
Perone, Eduardo, Gloversville, N. Y. Glove. No. 54,675; Mar. 9; v. 272; p. 338.
Peruggi, Ernesto, New York, N. Y. Doll. Nos. 55,882–6; July 20; v. 276; p. 556.
Peruggi, Ernesto, New York, N. Y. Doll. Nos. 56,190–1; Aug. 24; v. 277; p. 747.
Peterson, Hilding F., Marshalltown, Iowa. Swing. No. 55,572; June 29; v. 275; p. 980.
Peterson, Maurice, New York, N. Y. Game-board. No. 56,080; Aug. 10; v. 277; p. 349.
Pfeffer, Genevieve, San Jose, Calif. Doll. (Reissue.) No. 14,998; Nov. 30; v. 280; p. 962.
Pfefferle, Margaret E. (See Pfefferle, Peachann and M. E.)
Pfefferle, Peachann and M. E., Columbus, Ohio. Suit of coveralls. No. 55,573; June 29; v. 275; p. 980.
Pfous, Frank, Coshocton, Ohio, assignor to Eberhard Faber Pencil Co., New York, N. Y. Cabinet for rubber bands. No. 55,396; June 1; v. 275; p. 165.
Philadelphia Metal Drying Form Company. (See von Stetten, Julius O., assignor.)
Phillips, Earl, Cleveland, Ohio. Shoe-sole. No. 55,318; May 25; v. 274; p. 784.
Phillips, Earl, Cleveland, Ohio. Shoe-sole or similar article. No. 55,397; June 1; v. 275; p. 165.
Philips, Erwin B., Stratford, Conn. Box. No. 56,306; Sept. 14; v. 278; p. 320.
Phillips, Mary W., Atlanta, Ga. Doll. No. 54,449; Feb. 10; v. 271; p. 813.
Phoenix Rubber Company, The. (See Bretson, John G., assignor.)
Pickop, George B., New Haven, Conn., assignor to The Malleable Iron Fittings Company, Branford, Conn. Spray device. No. 55,486; June 15; v. 275; p. 572.
Pieper, Alphonse F. (See Pieper, Oscar H. and A. F.)
Pieper, Oscar H. and A. F., Rochester, N. Y. Pedestal for dental apparatus. No. 56,470; Oct. 26; v. 279; p. 695.
Pieper, Oscar H. and A. F., Rochester, N. Y. Pedestal for dental apparatus. No. 56,728; Dec. 7; v. 281; p. 165.
Pierson, Robert M., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Pneumatic tire. No. 56,307; Sept. 14; v. 278; p. 320.
Pi Kappa Alpha Fraternity, The. (See Henry, Orloff, assignor.)
Pilling, Claudia I., Denver, Colo. Lady's undergarment. No. 56,379; Oct. 5; v. 279; p. 141.
Pines Manufacturing Company. (See Raleigh, James F., assignor.)
Pinkney, Bryan D., assignor to The Triumph Manufacturing Company, Cincinnati, Ohio. Beater for mixing-machines. No. 55,815; July 13; v. 276; p. 371.
Pioneer Products, Incorporated. (See Barney, James E., assignor.)

Digitized by Google

Piper, Walter E., Melrose, Mass., assignor to Boston Rubber Shoe Company. Sole of a rubber boot or shoe. No. 55,528; June 22; v. 275; p. 778.
Piper, Walter E., Melrose, Mass., assignor to Boston Rubber Shoe Company. Sole of a rubber overshoe or similar article. No. 55,529; June 22; v. 275; p. 779.
Pitcairn, William S., Corporation. (Norman, Denham G., assignor.)
Pittsburgh Lamp, Brass & Glass Company. (See Griffith, Benjamin M., assignor.)
Plaisted, William M., Larchmont Manor, assignor to Hazelton Brothers, New York, N. Y. Piano-case. No. 56,192; Aug. 24; v. 277; p. 748.
Plant, James A., Hartford, Conn. Toy. No. 56,471; Oct. 26; v. 279; p. 695.
Plaut, Herman, New York, N. Y. Lighting-fixture. No. 56,472; Oct. 26; v. 279; p. 695.
Plumlee, Denton E., Sego, Utah. Game apparatus. No. 56,833; Dec. 28; v. 281; p. 750.
Poe, Robert L., assignor to Shell-O-Phone Talking Machine Company, Chicago, Ill. Talking-machine. No. 54,989; Apr. 27; v. 273; p. 766.
Pohl, Charles, assignor to J. O. King, Los Angeles, Calif. Auto-lock. No. 54,450; Feb. 10; v. 271; p. 313.
Polasky, Wladyslaw, Detroit, Mich. Jewelry-box. No. 56,027; Aug. 10; v. 277; p. 340.
Poling, Fred C., Menlo, Iowa. Mud-lug. No. 54,561; Mar. 2; v. 272; p. 141.
Poll, George, New York, N. Y. Table. No. 55,884; July 20; v. 276; p. 556.
Pondelicek, Jerry J. (See Pondelicek, William P., assignor.)
Pondelicek, William P., assignor of one-half to J. J. Pondelicek, Chicago, Ill. Tumbler-holder. No. 56,565; Nov. 9; v. 280; p. 356.
Portage Rubber Co., The. (See Christy, James, assignor.)
Porter, Adelaide M., Greenwich, Conn., assignor to Huyler's Inc., New York, N. Y. Doll. No. 55,640; July 6; v. 276; p. 166.
Porter, Adelaide M., Greenwich, assignor to Huyler's Inc., New York, N. Y. Confectionery bouquet. No. 56,308; Sept. 14; v. 278; p. 321.
Practical Tools Company. (See Carll, Addison B., assignor.)
Pratt, Harold T., and E. C. West, Ottawa, Ontario, Canada. Toy aeroplane. No. 54,768; Mar. 23; v. 272; p. 693.
Pratt, Loui M., assignor to H. B. Landreth, Pasadena, Calif. Scooter. No. 56,473; Oct. 26; v. 279; p. 696.
Pratt & Whitney Company. (See Blood, Bryant H., assignor.)
Price, Grace, Mount Airy, Va. Combined butter ladle and print. No. 56,028; Aug. 10; v. 277; p. 340.
Price, Stephen C., Louisiana, assignor to P. R. B. Pump Company, Hannibal, Mo. Oil-can. No. 55,641; July 6; v. 276; p. 166.
Prince, John, assignor to The Stewart Sand Company, Kansas City, Mo. Sign. No. 56,765; Dec. 14; v. 281; p. 373.
Prini, Anthony, Brooklyn, N. Y. Display-stand. No. 55,642; July 6; v. 276; p. 166.
Prucha, Henry F. (See Carls, M. J., and Prucha.)
Pult, Casper J., Detroit, Mich. Display-rack. No. 54,769; Mar. 23; v. 272; p. 693.
Quality Tire & Rubber Company, The. (See Hodges, Charles J., assignor.)
Quigg, James L., assignor to C. F. Sauer Company, Richmond, Va. Bottle or similar article. No. 56,029; Aug. 10; v. 277; p. 340.
Quimby, Erasmus C. and P. W., Los Angeles, Calif. Box. No. 54,451; Feb. 10; v. 271; p. 313.
Quimby, Paul W. (See Quimby, Erasmus C. and P. W.)
Quinby, Erasmus C., Los Angeles, Calif. Candy-box. No. 55,643; July 6; v. 276; p. 166.
Quinby, Erasmus C., Los Angeles, Calif. Candy-box. No. 55,885; July 20; v. 276; p. 556.
Quincy Show Case Works, The. (See Fifer, William A., assignor.)
Radium Dial Company. (See Breen, James M., assignor.)
Rainaud, Leon J., Meriden, Conn. Shade-holder. No. 56,474; Oct. 26; v. 279; p. 696.
Raleigh, James F., assignor to Pines Manufacturing Company, Chicago, Ill. Automobile-radiator front. No. 55,435; June 8; v. 275; p. 369.
Randle, Stafford, San Francisco, Calif. Cushion-top or article of similar nature. No. 56,380; Oct. 5; v. 279; p. 142.
Ranlett, David L., New York, N. Y., assignor to American Balsa Company. Surf-board. No. 55,079; May 4; v. 274; p. 147.
Rapattoni, Ernest, Los Angeles, Calif. Automobile traffic-signal. No. 56,193; Aug. 24; v. 277; p. 748.
Rarig, Walter A., Oakland, Calif. Sight-feed for oil-pipe. No. 54,862; Apr. 13; v. 273; p. 348.
Rathbone, Sard & Co. (See Toomey, John J., assignor.)
Rayon Rubber Co. (See Lyon, Ossian G., assignor.)
Reach, William F., Springfield, Mass., assignor to A. G. Spalding & Bros., New York, N. Y. Golf-club. No. 55,644; July 6; v. 276; p. 167.
Reaper, William A., Monroe, Mich. Compartment-jar. No. 55,819; May 25; v. 274; p. 784.
Rector, Harlan S., Chicago, Ill. Tire. No. 56,766; Dec. 14; v. 281; p. 373.
Reed, James E. (See Brown, E. F., and Reed.)
Rees, Frank W., assignor to Sees-All Manufacturing Company, Seattle, Wash. Rear-sight mirror for motor-vehicles. No. 56,030; Aug. 10; v. 277; p. 340.
Rees, Frank W., assignor to Sees-All Manufacturing Company, Seattle, Wash. Rear-sight mirror for motor-vehicles. No. 56,309; Sept. 14; v. 278; p. 321.
Reeves, Madison W., Sayre, Pa. Ladder. No. 56,475; Oct. 26; v. 279; p. 696.
Reid, Elmer A., Somerset, N. J. Tire. No. 55,080; May 4; v. 274; p. 147.
Reily, John P., St. Louis, Mo. Individual ice-cream-service container. No. 54,956; Apr. 20; v. 273; p. 581.
Reimherr, Adolph, Bridgeport, Conn., assignor to Whiting Manufacturing Company, New York, N. Y. Handle for a spoon, fork, or similar article. No. 54,452; Feb. 10; v. 271; p. 313.
Reinhart, Ruby L., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 55,324–6; May 25; v. 274; p. 785.
Reinhart, Ruby L., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 55,530–1; June 22; v. 275; p. 779.
Reisfeld, Louis, assignor to J. W. Hoodwin Company, Chicago, Ill. Punch-board. No. 55,817; July 13; v. 276; p. 371.
Reith, William G., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 55,320–3; May 25; v. 274; p. 784.
Reith, William G., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 55,532; June 22; v. 275; p. 779.
Reliance Metal Spinning & Stamping Co. (See Cohn, Harry, assignor.)
Rennick, George H., Indianapolis, Ind. Emblem-button. No. 55,398; June 1; v. 275; p. 165.
Rennick, George H., Indianapolis, Ind. Military-bar ribbon. No. 56,625; Nov. 16; v. 280; p. 560.
Rewick, Everett E., Los Angeles, Calif. Chair. No. 54,863; Apr. 13; v. 273; p. 348.
Rewick, Everett E., Los Angeles, Calif. Dresser. No. 54,864; Apr. 13; v. 273; p. 349.
Rex Motor Car Manufacturing Company. (See Booth, Robert, assignor.)
Rey, Jean, Paris, France. Mirror for projectors. No. 56,679; Nov. 23; v. 280; p. 757.
Reybet, Georges, Jersey City, N. J. Textile fabric for decorative purposes. Nos. 56,194–5; Aug. 24; v. 277; p. 748.
Reymann, Joseph F., assignor to S. Himmel, Baltimore, Md. Store-shelving. Nos. 56,566–7; Nov. 9; v. 280; pp. 356–7.
Reymann, Joseph F., assignor to Solomon Himmel, Baltimore, Md. Store-shelving. No. 56,709; Nov. 30; v. 280; p. 966.
Reynolds, Bernard R., Kansas City, Kans. Pin or similar device for personal wear. No. 55,957; Aug. 3; v. 277; p. 141.
Reynolds, Florence K., San Francisco, Calif. Toy figure. No. 55,886; July 20; v. 276; p. 557.
Reynolds, Ira, Redwood Falls, Minn. Rack. No. 56,476; Oct. 26; v. 279; p. 696.
Reznor, George F., Mercer, Pa. Heating-stove. No. 54,770; Mar. 23; v. 272; p. 693.
Richard, François, Cleveland, Ohio. Automobile-body. No. 55,816; July 13; v. 276; p. 371.
Richard, Francois, Cleveland, Ohio. Automobile-fender. No. 56,767; Dec. 14; v. 281; p. 373.
Richardson Corporation. (See Richardson and Jacoby, assignors.)
Richardson, Durbin, and C. N. Jacoby, assignors to Richardson Corporation, Rochester, N. Y. Beverage-dispensing apparatus. No. 54,363; Feb. 3; v. 271; p. 132.
Richardson, Durbin, and C. N. Jacoby, assignors to Richardson Corporation, Rochester, N. Y. Portable beverage-dispensing apparatus. No. 54,453; Feb. 10; v. 271; p. 313.
Richardson, George J., New York, N. Y., assignor to National Sanitary Street System, Incorporated. Combined trash-receptacle and advertising medium. Nos. 54,676–7; Mar. 9; v. 272; p. 338.
Richmond, Arthur, assignor to Henry Richmond & Sons Limited, Leeds, England. Iron boot protector or stud. No. 54,678; Mar. 9; v. 272; p. 339.
Richmond, Henry, & Sons. (See Richmond, Arthur, assignor.)
Richsteig, Max, Cincinnati, Ohio. Casing for a sound-producing instrument. No. 55,645; July 6; v. 276; p. 167.
Rickard, Lester J., Cincinnati, Ohio, assignor to The Rickard Wheel Company. Wheel-body. No. 54,679; Mar. 9; v. 272; p. 339.
Rickard Wheel Company, The. (See Rickard, Lester J., assignor.)
Riddle, Edward N., Co., The. (See Crowell, Frank S., assignor.)
Ridgway, Edward J., Staten Island, N. Y. Dish or similar article. Nos. 54,957–9; Apr. 20; v. 273; p. 582.
Rieder, Charles, assignor to Frank Rieder & Sons, Philadelphia, Pa. Chair. No. 55,399; June 1; v. 275; p. 165.

Digitized by Google

Alphabetical list of patentees of designs—Continued.

Rieder, Frank, & Sons. (See Rieder, Charles, assignor.)
Rieg, Bernard E., and E. B. Williams, Los Angeles, Calif. Statuette. No. 55,138; May 11; v. 274; p. 361.
Riehle, Henry C., Downers Grove, assignor to Standard Asphalt & Refining Company, Chicago, Ill. Expansion-joint filler for paving and building purposes. No. 56,729; Dec. 7; v. 281; p. 166.
Riley, James T., Brooklyn, assignor to Kimpton, Haupt & Co., New York, N. Y. Inkstand. Nos. 55,646–7; July 6; v. 276; p. 167.
Ring, John H., assignor to Gorham Manufacturing Company, Providence, R. I. Back for mirrors, brushes, or similar articles. No. 54,454; Feb. 10; v. 271; p. 314.
Rinschler, Joseph S., Jr., New York, N. Y. Jar. No. 56,710; Nov. 30; v. 280; p. 967.
Ripich, Louis J., Cleveland, Ohio. Lamp. No. 54,865; Apr. 13; v. 273; p. 349.
Ripich, Louis J., Cleveland, Ohio. Combination lamp-stand. No. 55,327; May 25; v. 274; p. 785.
Ritscher, Charles H., Glen Ridge, N. J., assignor to Campbell, Metzger & Jacobson, New York, N. Y. Textile fabric. No. 54,562; Mar. 2; v. 272; p. 141.
Rivet-O Manufacturing Company. (See Harris, Carl C., assignor.)
Robb, James T., Bay Shore, N. Y. Portable lamp. No. 55,818; July 13; v. 276; p. 371.
Roberts, Charles O. and W. M., Ashland, Ohio. Child's vehicle. No. 55,328; May 25; v. 274; p. 786.
Roberts, Clarence V., Philadelphia, Pa. Gas-heater. No. 56,381; Oct. 5; v. 279; p. 142.
Roberts Cone Manufacturing Company. (See Allen, Irving R., assignor.)
Roberts, Lafayette, Philadelphia, Pa. Talking-machine cabinet. No. 55,329; May 25; v. 274; p. 786.
Roberts, Marshal G., Detroit, Mich. Window for an automobile-curtain. No. 56,382; Oct. 5; v. 279; p. 142.
Roberts, William M. (See Roberts, Charles O. and W. M.)
Robertson, John C., Glasgow, Scotland. Golf-ball. No. 55,330; May 25; v. 274; p. 786.
Robinson, Alfred. (See Anderson, R. N., and Robinson.)
Robinson, Grosvenor P., Summit, N. J. Lighting-fixture. No. 56,081; Aug. 10; v. 277; p. 349.
Roblin, David H. (See Johanson, Emil G., assignor.)
Rode, Frank S., Jeannette, Pa. Lifting-jack. No. 54,680; Mar. 9; v. 272; p. 339.
Roebuck, Harry J., Troy, N. Y. Snap-hook. No. 55,819; July 13; v. 276; p. 371.
Roehlin, William F., Rochester, N. Y., assignor to Becker, Smith & Page, Philadelphia, Pa. Embossed wall-paper. No. 55,139; May 11; v. 274; p. 361.
Roehlen, William F., Rochester, N. Y., assignor to Becker, Smith & Page, Philadelphia, Pa. Embossed wall-paper. No. 55,887; July 20; v. 276; p. 557.
Rogers, Nathaniel R., Danbury, Conn. Lighting-fixture. No. 56,031; Aug. 10; v. 277; p. 340.
Rogers, Richard H., and P. O. Dorer, assignors to S. Smith & Sons (Motor Accessories) Limited, London, England. Switch-casing. No. 55,820; July 13; v. 276; p. 372.
Rogers, Wm. A., Limited. (See James, Sidney V., assignor.)
Rohr, Marshall J., Washington, D. C. Toy. No. 55,958; Aug. 3; v. 277; p. 141.
Roller, Milton B., San Francisco, Calif. Andiron. Nos. 56,531–9; Nov. 2; v. 280; pp. 148–9.
Romieu, Charles F., Thompsonville, Conn., assignor to Bigelow Hartford Carpet Company. Rug. No. 54,455; Feb. 10; v. 271; p. 314.
Romney, Richard R., assignor to Ellis Resilient Wheel Corporation, Seattle, Wash. Vehicle-wheel. No. 54,681; Mar. 9; v. 272; p. 339.
Root, Chapman J., Terre Haute, Ind. Bottle or similar article. No. 54,682; Mar. 9; v. 272; p. 339.
Rosenbach, David, assignor to Illinois Automobile Club, Chicago, Ill. Emblematic article of manufacture. No. 56,239; Aug. 31; v. 277; p. 940.
Rosengarten, John G., Philadelphia, Pa. Service-pin. No. 56,383; Oct. 5; v. 279; p. 142.
Rosenthal, Ambrose H., Brooklyn, N. Y. Vehicle-tire. No. 54,683; Mar. 9; v. 272; p. 339.
Rososcznk, Frank, Albany, N. Y. Sadiron-handle. No. 56,032; Aug. 10; v. 277; p. 341.
Rotary Tire and Rubber Company, The. (See Sterns, Edward O., assignor.)
Rounseville, William E., assignor to C. A. Marsh and Company, Attleboro, Mass. Belt-clasp. Nos. 55,081–2; May 4; v. 274; p. 148.
Rounseville, William E., assignor to C. A. Marsh and Company, Attleboro, Mass. Belt-clasp. No. 55,197; May 18; v. 274; p. 560.
Rowe, John, Casey, Iowa. Mud-lug. No. 54,563; Mar. 2; v. 272; p. 141.
Rowland, Arthur J., assignor to Lamsom & Goodnow Manufacturing Company, Shelburne Falls, Mass. Handle for a knife, cleaver, or similar article. No. 54,771; Mar. 23; v. 272; p. 693.
Rozenske, Harry, Detroit, Mich. Pincer. No. 55,487; June 15; v. 275; p. 572.
Rubin, Louis, Philadelphia, Pa. Bathing-rompers. No. 56,626; Nov. 16; v. 280; p. 561.
Rubinstein, Samuel, Kenilworth, N. J. Mount for a picture. No. 56,627; Nov. 16; v. 280; p. 561.
Rudd, Cicero, Lineville, Ala. Bottle. No. 54,684; Mar. 9; v. 272; p. 340.
Rudolph, Isador, Philadelphia, Pa. Flag or banner. No. 56,384; Oct. 5; v. 279; p. 142.
Rush, Hazel, Charlotte, N. C. Toy. No. 54,456; Feb. 10; v. 271; p. 314.
Russell, Calvin, Penn Yan, N. Y., assignor to C. H. Russell. Roofing-shingle. No. 56,106; Aug. 17; v. 277; p. 550.
Russell, Carrie H. (See Russell, Calvin, assignor.)
Russell, Mary L., New York, N. Y. Figurette. No. 55,959; Aug. 3; v. 277; p. 141.
Rustant, Ferdinand, San Francisco, Calif. Bottle-stopper. Nos. 56,107–8; Aug. 17; v. 277; p. 550.
Rustant, Ferdinand, Manila, Philippine Islands. Bottle-stopper. No. 56,768; Dec. 14; v. 281; p. 373.
Ryan, Thomas H. (See Eley, D. H., and Ryan.)
Ryder, Charles D., Covington, Ky., assignor to The Corcoran-Victor Company, Cincinnati, Ohio. Rim for a vehicle-lamp or similar article. Nos. 56,256–8; Sept. 7; v. 278; pp. 137–8.
Rystedt, Ingemar K. (See Kumler, H. F., and Rystedt.)
Saal, Henry G., Chicago, Ill. Mounting-frame for spring-motors. No. 55,648; July 6; v. 276; p. 167.
Saller, George D., assignor to McKee Glass Company, Jeannette, Pa. Shelf-rest. Nos. 56,540–1; Nov. 2; v. 280; p. 150.
Sawyier, Thomas C., Indianapolis, Ind. Penholder. No. 56,680; Nov. 23; v. 280; p. 757.
Salazar, Eugene, San Francisco, Calif. Basket. No. 56,769; Dec. 14; v. 281 p. 374.
Salisbury, Myron D., East Orange, assignor to Edison Storage Battery Company, West Orange, N. J. Emblem, medal, badge, insignia, or an article of a similar nature. No. 55,649; July 6; v. 276; p. 167.
Salomon, Chester V., Milwaukee, Wis. Utensil-rack. No. 54,685; Mar. 9; v. 272; p. 340.
Sampson, Samuel, New York, N. Y. Collar-holder. No. 55,488; June 15; v. 275; p. 572.
Sanborn, Lucian W., Framingham, Mass. Ring. No. 55,650; July 6; v. 276; p. 168.
Sandlass, Henry J., Forest Park, Md. Key-bed for pianos. No. 55,888; July 20; v. 276; p. 557.
Sandstrom, August E., New York, N. Y. Toy top. No. 54,457; Feb. 10; v. 271; p. 314.
Sandstrom, August E., New York, N. Y. Toy top. No. 55,084; May 4; v. 274; p. 148.
Sandusky, Earl, Los Angeles, Calif. Automobile-fender. No. 56,770; Dec. 14; v. 281; p. 374.
Sanford Narrow Fabric Co. (See Chapman, John C., assignor.)
Sanitary Products Corporation of America. (See Jacoby, Leo D., assignor.)
Sas, Elmer. (See Erdoes, J., and Sas.)
Satzewich, Steve, New York, N. Y. Knife. No. 54,686; Mar. 9; v. 272; p. 340.
Sauer, C. F., Company. (See Quigg, James L., assignor.)
Sauer, Emil G., Richmond Hill, N. Y., assignor to Bigelow Hartford Carpet Company. Rug. Nos. 54,458–60; Feb. 10; v. 271; pp. 314–5.
Saunders, Albert F., Syracuse, assignor to T. N. Benedict Mfg. Co., East Syracuse, N. Y. Goblet. No. 54,866; Apr. 13; v. 273; p. 349.
Saunders, Albert F., Syracuse, assignor to T. N. Benedict Mfg. Co., East Syracuse, N. Y. Ice-cream dish. No. 54,867; Apr. 13; v. 273; p. 349.
Saunders, Albert F., assignor to T. N. Benedict Mfg. Co., East Syracuse, N. Y. Sundae-cup. No. 55,085; May 4; v. 274; p. 148.
Saunders, Albert F., Syracuse, N. Y., assignor to T. N. Benedict Mfg. Co., East Syracuse, N. Y. Sundae-holder. No. 55,086; May 4; v. 274; p. 149.
Sawders, Frank P., and J. G. Murray, Pittsburgh, Pa. Combination spring-hanger and radius-rod bracket. No. 56,033; Aug. 10; v. 277; p. 341.
Saxton, A. H., and J. J. Bachmayer, assignors to National Bundle Tyer Company, Blissfield, Mich. Bundle-tier-machine frame. No. 56,310; Sept. 14; v. 278; p. 321.
Saxton, Albert H., and J. J. Bachmayer, assignors to National Bundle Tyer Company, Blissford, Mich. Bundle-tier-machine frame. No. 55,533; June 22; v. 275; p. 779.
Scheffler, William F., Chicago, Ill., assignor to Cochran Mfg. & Forging Company. Combined wrench and spring-leaf oiler. No. 54,461; Feb. 10; v. 271; p. 315.
Schell, George N., Cleveland, Ohio. Vehicle-tire. No. 55,332; May 25; v. 274; p. 786.
Schelm, William H., East Peoria, Ill. Vehicle-body. No. 54,687; Mar. 9; v. 272; p. 340.
Schiff, Henry T., assignor to Vitanola Talking Machine Company, Chicago, Ill. Sound-reproducing cabinet. Nos. 56,568–73; Nov. 9; v. 280; pp. 357–8.
Schiff, Samuel S., Chicago, Ill., assignor to Vitanola Talking Machine Co. Sound-reproducer for a phonograph or similar device. No. 55,333; May 25; v. 274; p. 786.
Schisgall, Theodore, assignor to Travelight Mfg. Co., Philadelphia, Pa. Crucifix. No. 56,628; Nov. 16; v. 280; p. 561.
Schleicher, Adolf B., Pasadena, Calif. Tire. No. 55,087; v. 274; p. 149.
Schmid, Werner, Brooklyn, assignor to National Lace & Embroidery Company, New York, N. Y. Lace and embroidery. Nos. 55,651–711; July 6; v. 276; pp. 168–76.

Digitized by Google

Schmid, Werner, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y. Collar. No. 56,629; Nov. 16; v. 280; p. 561.
Schneider, Herman E., Pound, Wis. Garment-hanger. No. 54,960; Apr. 20; v. 273; p. 582.
Schoettel, Alfred G., Brooklyn, N. Y. Knitting-needle. No. 54,688; Mar. 9; v. 272; p. 340.
Schreiber, Paul D. (See Jones, P. J., and Schreiber.)
Schuler, William A., New York, N. Y. Fastener. No. 54,961; Apr. 20; v. 273; p. 582.
Schuler, William A., New York, N. Y. Clutch. No. 56,196; Aug. 24; v. 277; p. 748.
Schulte, Edmund, and J. Weite, Jr., Yonkers, N. Y. Candelabrum, cigar, cigarette, and match holder and ash-receiver. No. 54,462; Feb. 10; v. 271; p. 315.
Schultz, Raymond A., Rochester, assignor of one-half to A. S. Donaldson, Watertown, N. Y. Pole-holder. No. 56,197; Aug. 24; v. 277; p. 749.
Schumann, George, Alhambra, Calif. Flag. No. 54,689; Mar. 9; v. 272; p. 340.
Schumm, John. (See Lemborg, Theodor, assignor.)
Schwarber, Henry, Weehawken, assignor to Inflexible Co., West New York, N. J. Embroidered lace collar. No. 55,727; July 6; v. 276; p. 179.
Schwarber, Henry, Weehawken, assignor to The Inflexible Co., West New York, N. J. Embroidered lace-collar. Nos. 56,198–9; Aug. 24; v. 277; p. 749.
Schwarber, Henry, Weehawken, assignor to The Inflexible Co., West New York, N. J. Embroidered lace. No. 56,240; Aug. 31; v. 277; p. 940.
Schwartz, Abraham, New York, N. Y. Doll. No. 54,772; Mar. 23; v. 272; p. 693.
Schwartz, Frederick, assignor to Robert Findlay Manufacturing Co., New York, N. Y. Lighting-fixture. No. 54,715; Mar. 16; v. 272; p. 509.
Schwartz, Frederick, Brooklyn, assignor to Robert Findlay Manufacturing Co., New York, N. Y. Plate for lighting-fixtures. Nos. 55,889–90; July 20; v. 276; p. 557.
Schwartz, Frederick, Brooklyn, assignor to Robert Findlay Manufacturing Co., New York, N. Y. Plate for lighting-fixtures. No. 55,899; July 20; v. 276; p. 559.
Schwarze, Carl J., assignor to Schwarze Electric Company, Adrian, Mich. Push-button. No. 54,962; Apr. 20; v. 273; p. 582.
Schwarze Electric Company. (See Schwarze, Carl J., assignor.)
Scott, Ephriam J., East Providence, R. I. Game-board. No. 56,200; Aug. 24; v. 277; p. 749.
Scott, George B., assignor to Henry Tetlow Co., Philadelphia, Pa. Box. No. 54,468; Feb. 10; v. 271; p. 315.
Scott-Ullman Co., The. (See Maerz, Frederick K., assignor.)
Scott-Ullman Company. (See Mitchell, Edward P., assignor.)
Scott-Ullman Company. (See Ullman, Albert, assignor.)
Scoville, Kenneth M., Milwaukee, Wis. Button. No. 54,690; Mar. 9; v. 272; p. 341.
Scudder, Eric, and N. C. Ward, Chicago, Ill. Bottle. Nos. 55,891–2; July 20; v. 276; pp. 557–8.
Scully, John J., assignor to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Interchangeable motor-board for talking-machines. No. 56,834; Dec. 28; v. 281; p. 750.
Seabridge, William, assignor to Empire Tire & Rubber Corporation, Trenton, N. J. Tire. No. 55,140; May 11; v. 274; p. 362.
Seacord, Olive, Washington, D. C. Shoe-paste applier and polisher. No. 56,835; Dec. 28; v. 281; p. 751.
Seamless Rubber Company, The. (See Dodge, Frank W., assignor.)
Sebring, Leonard W., Moline, Ill. Statue, statuette, or ornament. No. 55,574; June 29; v. 275; p. 981.
Sedell, Charles H., C. C. Whelan, and M. Belfry, Chicago, Ill., assignors to C. H. Sedell and C. C. Whelan. Memorial tablet. No. 55,089; May 4; v. 274; p. 149.
Seebach, Frank A., Akron, Ohio. Elastic vehicle-tire. No. 54,691; Mar. 9; v. 272; p. 341.
Seeholzer, Albert G., Detroit, Mich. Emblem, badge, or similar article. No. 55,088; May 4; v. 274; p. 149.
Sees-All Manufacturing Company. (See Rees, Frank W., assignor.)
Segawa, Noboru, Alvin, Tex. Toy. No. 55,720; July 6; v. 276; p. 178.
Seidel, Martin, Weehawken, assignor to West Shore Embroidery Company, West New York, N. J. Lace. Nos. 55,575–6; June 29; v. 275; p. 981.
Seidel, Martin, Weehawken, assignor to West Shore Embroidery Company, West New York, N. J. Lace. Nos. 55,712–19; July 6; v. 276; pp. 176–8.
Seiders, Irwin A., Pennside, Pa. Cylinder-cock casing. No. 55,436; June 8; v. 275; p. 369.
Seliber, Lazar, Rockaway Park, N. Y. Memorial-plaque. No. 54,773; Mar. 23; v. 272; p. 694.
Seltzer, Ira R., Waterbury, assignor to The Gordon Electric Mfg. Co., Waterville, Conn. Plural-pole entrance-switch base. No. 55,090; May 4; v. 274; p. 149.
Senger, Arthur, Milwaukee, Wis. Automobile-lens. No. 56,259; Sept. 7; v. 278; p. 138.
Service Caster & Truck Company, The. (See Chesnutt, John L., assignor.)
Sessions, Alfred D. E., Red Wing, Minn. Hairpin. No. 55,821; July 13; v. 276; p. 372.
Shalhoub, John, and L. H. Esselmann, assignors to Liberty Cone Company, St. Louis, Mo. Pastry cone. No. 56,771; Dec. 14; v. 281; p. 374.
Shamberg, Herbert D., New York, N. Y. Electric generating unit. No. 54,868; Apr. 13; v. 273; p. 349.
Shannon, Floyd E., Akron, Ohio. Elastic vehicle-tire. No. 55,091; May 4; v. 274; p. 149.
Shannon, Floyd E., Akron, Ohio. Elastic vehicle-tire. No. 55,437; June 8; v. 275; p. 370.
Shapiro & Aronson. (See Westphal, Gottfried, assignor.)
Shapiro, Joseph, Baltimore, Md. Cake cone. Nos. 56,385–6; Oct. 5; v. 279; p. 143.
Shapiro, Morris, New York, N. Y. Plaque or panel. No. 56,387; Oct. 5; v. 279; p. 143.
Sharp, John H., Shamokin, Pa. Finger-ring. No. 56,388; Oct. 5; v. 279; p. 143.
Sharpe, James, Detroit, Mich. Game apparatus. No. 55,092; May 4; v. 274; p. 150.
Shaull, James H., Charlotte, Mich. Tire-tool. No. 56,542; Nov. 2; v. 280; p. 150.
Shaver, Elsie, New York, N. Y. Doll. Nos. 54,774–8; Mar. 23; v. 272; p. 694.
Shaw, Charles M., Yoker, Scotland. Automobile-body. No. 55,334; May 25; v. 274; p. 787.
Shaw, John H., New Haven, Conn. Doll-shoe bottom. No. 54,779; Mar. 23; v. 272; p. 695.
Shaw, Rolla C., Inglewood, Calif. Wind-deflector. No. 55,489; June 15; v. 275; p. 573.
Shean, George C. C., Wrightstown, N. J. Badge. No. 56,477; Oct. 26; v. 279; p. 696.
Sheer, Charles, Corona, N. Y. Finger-ring; No. 55,335; May 25; v. 274; p. 787.
Sheerin, Doherty, Indianapolis, Ind. Vending-cabinet. No. 55,534; June 22; v. 275; p. 780.
Sheffer, Ira L., assignor to Ira Lee Suction Cleaner Corporation, Detroit, Mich. Suction-cleaner case. No. 54,780; Mar. 23; v. 272; p. 695.
Sheffner, John C., assignor to Clinton Manufacturing Company, Clinton, Wis. Union-nut. No. 54,781; Mar. 23; v. 272; p. 695.
Shell-O-Phone Talking Machine Company. (See Poe, Robert L., assignor.)
Shelton Tool & Machine Co. (See Burchfield, Frank E., assignor.)
Shepard, Harry J., New York, N. Y. Doll. No. 54,464; Feb. 10; v. 271; p. 415.
Sherer, William T., Chicago, Ill. Display-counter. No. 55,490; June 15; v. 275; p. 573.
Shields, Lowell W., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt-buckle. Nos. 54,990–2; Apr. 27; v. 273; p. 766.
Shields, Lowell W., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt-buckle frame. Nos. 55,198–213; May 18; v. 274; pp. 560–2.
Shlamowitz, Hayman, Brooklyn, N. Y. Head-ring for electric-light fixtures. No. 55,400; June 1; v. 275; p. 166.
Shoenberg, Milton H., and G. J. Henry, assignors to Majestic Electric Development Company, San Francisco, Calif. Electric heater. No. 55,336; May 25; v. 274; p. 787.
Shores, George A., assignor to Shores-Mueller Company, Cedar Rapids, Iowa. Medicinal tablet. No. 56,478; Oct. 26; v. 279; p. 696.
Shores-Mueller Company. (See Shores, George A., assignor.)
Showers, Ernest S., Michigamme, Mich. Child's vehicle. No. 56,479; Oct. 26; v. 279; p. 697.
Shropshire, George E., Yonkers, assignor to Anglo-American Pharmaceutical Corporation, New York, N. Y. Decorative paper. No. 55,535; June 22; v. 275; p. 780.
Shrum, William H. V., Columbus, Ohio. Flying toy. No. 56,772; Dec. 14; v. 281; p. 374.
Shugg, Mildred E., Brooklyn, N. Y. Toy. No. 54,963; Apr. 20; v. 273; p. 582.
Shulte, Edmund, and J. Weite, Jr., Yonkers, N. Y. Combined cigar and cigarette stand and ash-receiver. No. 54,465; Feb. 10; v. 271; p. 316.
Sidé-Livermore, Watson S., New York, N. Y. Image. No. 56,480; Oct. 26; v. 279; p. 697.
Sidel-Rattner Manufacturing Company. (See Sidel, Robert, assignor.)
Sidel, Robert, New York, N. Y., assignor to Sidel-Rattner Manufacturing Company. Pump-handle. No. 54,869; Apr. 13; v. 273; p. 349.
Sidenberg, Arthur M., New York, N. Y., assignor to Atlantic Comb Works. Back for a mirror, brush, or similar article. No. 56,711; Nov. 30; v. 280; p. 967.
Siegel, Leah. (See Gillman, E., and Siegel.)
Silberman, Hazel D., New York, N. Y. Child's play-dress. No. 56,630; Nov. 16; v. 280; p. 561.
Silent Drama Syndicate, a trusteeship. (See Brown, Lloyd, assignor.)
Silver & Co. (See Ferdon, Guy W., assignor.)
Silver, Conover T., New York, N. Y. Automobile. Nos. 54,692–3; Mar. 9; v. 272; p. 341.
Silver, Hyman, Brooklyn, N. Y. Buffet or similar article. No. 56,201; Aug. 24; v. 277; p. 749.
Silverstein, Joseph, Peoria, Ill. Vehicle-body. No. 54,870; Apr. 13; v. 273; p. 350.
Silverstein, Sam, Brooklyn, N. Y. Lighting-fixture. No. 56,481; Oct. 26; v. 279; p. 691.
Simmons Company. (See Stuart, Charles A., assignor.)

Digitized by Google

Alphabetical list of patentees of designs—Continued.

Simmons, Howard E. and P. R., Huntington, Ind. Pneumatic metal wheel. No. 54,564; Mar. 2; v. 272; p. 141.
Simmons, Joseph, New York, N. Y. Finger-ring. No. 55,893; July 20; v. 276; p. 558.
Simmons, Paul R. (See Simmons, Howard E and P. R.)
Simola, Efisio, Berwind, Colo. Surface ornamentation for a cocoanut-shell or similar article. No. 55,721; July 6; v. 276; p. 178.
Simon & Mendelsohn. (See Mendelsohn, Herman T., assignor.)
Simon, Vincent N., Chicago, Ill. Illusion device. No. 55,960; Aug. 3; v. 277; p. 141.
Simpson, Benjamin F., Minneapolis, Minn. Engagement or wedding ring. Nos. 56,836–7; Dec. 28; v. 281; p. 751.
Simpson, Benjamin F., Minneapolis, Minn. Engagement or wedding ring. 56,837; Dec. 28; v. 281; p. 751.
Simpson, Warren W., Indianapolis, Ind., assignor to La Fayette Motors Company. Radiator-shell for motor-vehicles. No. 55,822; July 13; v. 276; p. 372.
Singer, Louis D., Harrodsburg, Ky. Wax floral wreath. No. 56,631; Nov. 16; v. 280; p. 561.
Singer Manufacturing Company, The. (See Karle, John D., assignor.)
Sisco, Peter, Chicago, Ill. Image, statuette, configuration of a bar of candy, or similar article of manufacture. Nos. 54,782–3; Mar. 23; v. 272; p. 695.
Sizaire, Maurice H. L., Park Royal, London, England. Radiator for automobile-vehicles. No. 55,491; June 15; v. 275; p. 573.
Skeens, James A., Chunky, Miss. Washboard. No. 56,773; Dec. 14; v. 281; p. 374.
Slayter, Henry S., Belmont, assignor to Boston Paper Manufacturing Co., Boston, Mass. Ornamented paper. No. 54,716; Mar. 16; v. 272; p. 509.
Sleight, William W., Chicago, Ill. Head of a bolt for window-frames. No. 54,964; Apr. 20; v. 273; p. 583.
Sleight, William W., Chicago, Ill. Holdfast for window-frames. Nos. 54,965–6; Apr. 20; v. 273; p. 583.
Sleight, William W., Chicago, Ill. Bolt for window-frames. No. 55,438; June 8; v. 275; p. 370.
Sleight, William W., Chicago, Ill. Holdfast for window-frames. No. 55,439; June 8; v. 275; p. 370.
Smart, Fred. (See Bliss, G. E., and Smart.)
Smigielski, Stanley, Detroit, Mich. Lamp-box. No. 55,093; May 4; v. 274; p. 150.
Smith, Edward, Chicago, Ill. Picture-frame. No. 54,784; Mar. 23; v. 272; p. 695.
Smith, Fred W., Rutherford, N. J. Tire. No. 54,694; Mar. 9; v. 272; p. 341.
Smith, Frederick W., Portland, Oreg. Set of playing cards. No. 56,482; Oct. 26; v. 279; p. 697.
Smith, Harley. (See Berry, Louis J.)
Smith, Harry J., Binghamton, N. Y. Vehicle-tire. No. 55,094; May 4; v. 274; p. 150.
Smith, Howell B., Nyack, N. Y., K. C. Thomas, Interlaken, N. J., and A. J. Ouellette, Duluth, Minn. Doll or statuette. Nos. 55,894–5; July 20; v. 276; p. 558.
Smith, James H., assignor to Smith-Junior Co., Inc., Rochester, N. Y. Duplex container. No. 56,082; Aug. 10; v. 277; p. 349.
Smith, James H., and C. D. Blackmon, Rochester, N. Y. Candy or chewing-gum tablet. No. 55,536; June 22; v. 275; p. 780.
Smith-Junior Co. (See Smith, James H., assignor.)
Smith, Phineas M., Brooklyn, assignor to Delmore Manufacturing Co., Inc., New York, N. Y. Motor-vehicle. No. 54,695; Mar. 9; v. 272; p. 341.
Smith, Phineas M., Brooklyn, assignor to Delmore Manufacturing Co. Inc., New York, N. Y. Motor-vehicle. Nos. 55,440–2; June 8; v. 275; p. 370.
Smith, Raymond R., Cleveland, assignor to 3-0-3 Chemical Company, Toledo, Ohio. Dispensing-receptacle. No. 54,871; Apr. 13; v. 273; p. 350.
Smith, S., & Sons (Motor Accessories). (See Rogers, R. H., and Dorer, assignors.)
Smith, Walter S., Columbus, Ohio. Scale-tower. No. 55,823; July 13; v. 276; p. 372.
Smith, Walter S., Columbus, Ohio. Scale. No. 55,824; July 13; v. 276; p. 372.
Smith, Willard M., White Plains, N. Y. Glove. No. 54,785; Mar. 23; v. 272; p. 696.
Smith, William H., East Cleveland, Ohio. Heat-treating box. No. 54,696; Mar. 9; v. 272; p. 341.
Smythe, William H., Winthrop, Mass. Stationery-container. No. 54,513; Feb. 17; v. 271; p. 503.
Smith, William H., assignor to The American Fabrics Company, Bridgeport, Conn. Lace for trimming purposes. No. 55,095; May 4; v. 274; p. 150.
Smith, William J., Denver, Colo. Superservice-flag. No. 55,537; June 22; v. 275; p. 780.
Smyth, Milton J., Philadelphia, Pa. Service picture-mat. No. 56,202; Aug. 24; v. 277; p. 749.
Snead & Co. Iron Works, The. (See Macdonald, A. S., and Booth, assignors.)
Snyder, Eugene L., Canton, Ohio. Drawing instrument. No. 55,538; June 22; v. 275; p. 780.
Snyder, Ida M., Louisville, Ky. Shoe-heel protector. No 56,034; Aug. 10; v. 277; p. 341.
Societe Generale De Coutellerie et Orfererie. (See Hygonnet, Auguste, assignor.)
Solidarity Watch Case Company. (See McGrevy, Jeremiah, assignor.)

Sollman, Carl P., Jersey City, N. J. Article of glassware. No. 54,967; Apr. 20; v. 273; p. 583.
Sols, Samuel H., Houston, Tex. Burial-casket. No. 56,483; Oct. 26; v. 279; p. 697.
Sommerhof, William A., Erie, Pa. Article of manufacture—namely, screen for sound-outlets of graphophones. Nos 54,968–9; Apr. 20; v. 273; p. 583.
Sonora, Inc. (See Wolff, Joseph.)
Sonora Phonograph Corporation. (See Farb, Pincus, assignor.)
Sonora Phonograph Corporation. (See Wolff, Joseph, assignor.)
Soref, Harry, Milwaukee, Wis. Display-stand. No. 56,241; Aug. 31; v. 277; p. 941.
South, Jerome J., Memphis, Tenn. Convertible chair. No. 54,697; Mar. 9; v. 272; p. 342.
Sowalski, Jan, Chicago, Ill. Window. No. 55,539; June 22; v. 275; p. 780.
Spalding, A. G., & Bros. (See Reach, William F., assignor.)
Specialty Paper Manufacturing Company. (See Winchenbaugh, Lester P., assignor.)
Speck, James G., Philadelphia, Pa., assignor to Bigelow Hartford Carpet Company. Rug. Nos. 54,466–8; Feb. 10; v. 271; p. 316.
Speck, James G., Philadelphia, Pa., assignor to Bigelow Hartford Carpet Company. Rug. No. 55,961; Aug. 3; v. 277; p. 142.
Sperry, Henry T., assignor to The Chase Companies Inc., Waterbury, Conn. Miner's lamp. Nos. 54,786–7; Mar. 23; v. 272; p. 696.
Spiringer, Arthur P., Erie, Pa. Kiddie-cycle. No. 55,825; July 13; v. 276; p. 372.
Spitler, Bernard W., Boston, Mass. Toy automobile. No. 55,722; July 6; v. 276; p. 178.
Splitdorf Electrical Company. (See Tomlinson, Edward J., assignor.)
Spring, William A., Brooklyn, N. Y., assignor to Bigelow Hartford Carpet Company. Rug. Nos. 54,469–71; Feb. 10; v. 271; pp. 316–17.
Squier, Bernice and B., Battle Creek, Mich. Doll. No. 55,962; Aug. 3; v. 277; p. 142.
Squier, Bernice and B., Battle Creek, Mich. Toy animal. No. 55,963; Aug. 3; v. 277; p. 142.
Squier, Blanche. (See Squier, Bernice and B.)
Sroka, Wojciech, Chicago, Ill. Sprinkling-can. No. 56,774; Dec. 14; v. 281; p. 374.
St. Louis Brass Manufacturing Company. (See Owen, Raymond V., assignor.)
Stackhouse, Edwin D., Columbus, Ohio. Badge, emblem, or article of similar nature. No. 55,896; July 20; v. 276; p. 558.
Staf, Axel H., assignor to Gorham Manufacturing Company, Providence, R. I. Handle for spoons, forks, or similar articles. No. 55,096; May 4; v. 274; p. 150.
Stafford, Lewis F., Chicago, Ill. Automobile-bumper. No. 56,203; Aug. 24; v. 277; p. 749.
Stamm, Alfred H., Peoria, Ill. Toy vehicle. No. 54,872; Apr. 13; v. 273; p. 350.
Standard Asphalt & Refining Company. (See Riehle, Henry C., assignor.)
Standard Button Company, The. (See Heath, Thomas, assignor.)
Standard Four Tire Company. (See Gabeline, Jacob B., assignor.)
Standard Parts Company, The. (See Braden, James A., assignor.)
Standard Tire Company, The. (See Owen, William C., assignor.)
Standard Tire Company, The. (See Tinsman, Edgar A., assignor.)
Staufenbeil, Karl, Dubuque, Iowa. Gentleman's soft-collar holder. No. 54,873; Apr. 13; v. 273; p. 350.
Starkweather, Sue P., Berkeley, Calif. Doll. Nos. 55,723–4; July 6; v. 276; p. 179.
Starr, Fred, Oakland, Calif. Toy vehicle. No. 55,725; July 6; v. 276; p. 179.
Staufenbeil, Karl, Dubuque, Iowa. Collar-clip. No. 55,214; May 18; v. 274; p. 565.
Stedman, James H., Braintree, Mass. Heel. No. 56,389; Oct. 5; v. 279; p. 143.
Steger, Ferdinand L., assignor to Steger & Sons Piano Manufacturing Company, Steger, Ill. Phonograph-cabinet body and legs. No. 54,472; Feb. 10; v. 271; p. 317.
Steger, Ferdinand L., assignor to Steger & Sons Piano Manufacturing Company, Steger, Ill. Phonograph-cabinet. No. 54,788; Mar. 23; v. 272; p. 696.
Steger, Ferdinand L., assignor to Steger & Sons Piano Manufacturing Company, Steger, Ill. Cover for a phonograph-case. No. 56,035; Aug. 10; v. 277; p. 341.
Steger & Sons Piano Manufacturing Company. (See Steger, Ferdinand L., assignor.)
Stegmaier, Michael L., Cumberland, Md. Meat-mixing fork. No. 54,473; Feb. 10; v. 271; p. 317.
Steiger & Kerr Stove & Foundry Company. (See Lehman, Max R., assignor.)
Steiner, Leopold. (See Jimmerson, Robert J., assignor.)
Steinert, Rudolph, New Haven, Conn. Phonograph-needle. No. 55,097; May 4; v. 274; p. 150.
Sterling Tire Corporation. (See Basten, Otto, assignor.)

Digitized by Google

Alphabetical list of patentees of designs—Continued.

Sterns, Edward O., Columbus, assignor to The Rotary Tire and Rubber Company, Zanesville, Ohio. Pneumatic tire. No. 54,698; Mar. 9; v. 272; p. 342.

Sterns, Edward O., Columbus, assignor to The Rotary Tire and Rubber Company, Zanesville, Ohio. Pneumatic tire. No. 55,141; May 11; v. 274; p. 362.

Stetson, John P., New York, N. Y., assignor to H. D. Beach Company, Coshocton, Ohio. Display-stand. No. 55,098; May 4; v. 274; p. 151.

Stevens and Company. (See Stevens, Frederick A., assignor.)

Stevens, Frederick A., assignor to Stevens and Company, Incorporated, Providence, R. I. Lens-clip or similar article. No. 56,484; Oct. 26; v. 279; p. 698.

Stevens, William F., Chicago, Ill. Service-emblem. No. 54,362; Jan. 20; v. 270; p. 459.

Stewart Sand Company, The. (See Prince, John, assignor.)

Stewart-Warner Speedometer Corporation. (See Whittington Frederik G., assignor.)

Stewart-Warner Speedometer Corporation. (See Wood, Andrew C., assignor.)

Stih, John A., La Salle, Ill. Garter. No. 55,826; July 13; v. 276; p. 373.

Stiles, Nancy L. O., Cleveland, Ohio. Brush. No. 54,565; Mar. 2; v. 272; p. 142.

Stimpson, George E., Worcester, Mass. Auxiliary desk-top. No. 56,242; Aug. 31; v. 277; p. 941.

Stock, Robert, Sandusky, Ohio. Wheel for vehicles. Nos. 56,712–13; Nov. 30; v. 280; p. 967.

Stockstrom, Arthur, assignor to American Stove Company, St. Louis, Mo. Oil-stove chimney. No. 54,699; Mar. 9; v. 272; p. 342.

Stolzenburg, Walter F., and H. R. Leubner, Sheboygan, Wis. Grill for talking-machine cabinets. No. 55,726; July 6; v. 276; p. 179.

Stone, Elmer B., assignor to American Hardware Corporation, New Britain, Conn. Padlock. No. 54,874; Apr. 13; v. 273; p. 350.

Strahan, George V., Newark, N. J., assignor to Mitchell Vance Company, Inc., New York, N. Y. Ceiling-plate for a lighting-fixture. No. 54,474; Feb. 10; v. 271; p. 317.

Strahan, George V., Newark, N. J., assignor to Mitchell Vance Company, Inc., New York, N. Y. Wall-bracket for lighting-fixtures. No. 54,475; Feb. 10; v. 271; p. 317.

Strahan, George V., Newark, N. J., assignor to Mitchell Vance Company, Inc., New York, N. Y. Arm for a lighting-fixture. No. 54,476; Feb. 10; v. 271; p. 317.

Strahan, George V., Newark, N. J., assignor to Mitchell Vance Company, Inc., New York, N. Y. Wall-bracket for a lighting-fixture. Nos. 54,477–8; Feb. 10; v. 271; p. 318.

Strahan, George V., Newark, N. J., and F. W. Mathieu, assignors to Mitchell Vance Co., Inc., New York, N. Y. Canopy for a lighting-fixture. No. 56,781; Dec. 14; v. 281; p. 376.

Strahan, George V., Newark, N. J., assignor to Mitchell Vance Co., Inc., New York, N. Y. Chandelier-body plate for a lighting-fixture. No. 56,775; Dec. 14; v. 281; p. 375.

Strahan, George V., Newark, N. J., assignor to Mitchell Vance Co., Inc., New York, N. Y. Chandelier-arm for a lighting-fixture. No. 56,776; Dec. 14; v. 281; p. 375.

Strahan, George V., Newark, N. J., assignor to Mitchell Vance Co., Inc., New York, N. Y. Canopy for lighting-fixture. No. 56,777; Dec. 14; v. 281; p. 775.

Strahan, George V., Newark, N. J., assignor to Mitchell Vance Co., Inc., New York, N. Y. Socket-cover for lighting-fixture. No. 56,778; Dec. 14; v. 281; p. 375.

Strahan, George V., Newark, N. J., assignor to Mitchell Vance Co., Inc., New York, N. Y. Canopy for a lighting-fixture. Nos. 56,779–80; Dec. 14; v. 281; p. 375.

Strahan, George V., Newark, N. J., and F. W. Mathieu, assignors to Mitchell Vance Co., Inc., New York, N. Y. Socket-cover for a lighting-fixture. No. 56,782; Dec. 14; v. 281; p. 376.

Strahan, George V., Newark, N. J., and F. W. Mathieu, assignors to Mitchell Vance Co., Inc., New York, N. Y. Chandelier-body plate for a lighting-fixture. No. 56,783; Dec. 14; v. 281; p. 376.

Strahan, George V., Newark, N. J., and F. W. Mathieu, assignors to Mitchell Vance Co., Inc., New York, N. Y. Wall-bracket for a lighting-fixture. Nos. 56,784–5; Dec. 14; v. 281; p. 376.

Strahan, George V., Newark, N. J., and F. W. Mathieu, assignors to Mitchell Vance Co., Inc., New York, N. Y. Wall-bracket for a lighting-fixture. No. 56,838; Dec. 28; v. 281; p. 751.

Strahan, George V., Newark, N. J., and F. W. Mathieu, assignors to Mitchell Vance Co., Inc., New York, N. Y. Arm for a lighting-fixture. Nos. 56,839–41; Dec. 28; v. 281; p. 751.

Strain, John H., Boston, Mass. Foot-propelled child's car. No. 56,204; Aug. 24; v. 277; p. 750.

Stranders, Julien, Brooklyn, N. Y., assignor to American Chicle Company, New York, N. Y. Display device. No. 56,786; Dec. 14; v. 281; p. 376.

Stratford Phonograph Company, The. (See Amreihn, Frank K., assignor.)

Strathmann, Charles, New York, N. Y. Signal-lamp. No. 54,789; Mar. 23; v. 272; p. 696.

Strawn, James A., Marshville, N. C. Radiator-cap ornament. No. 56,390; Oct. 5; v. 279; p. 143.

Strom, Emil, Chicago, Ill. Smoking-pipe. No. 55,443; June 8; v. 275; p. 371.

Strong, Elizabeth. (See Lambert, Ruth E., and Strong.)

Strong, Margaret L., Washington, D. C. Ornament for a picture-frame or the like. Nos. 56,205–6; Aug. 24; v. 277; p. 750.

Strong, William J. H., Chicago, Ill. Base for motor-stands. No. 54,566; Mar. 2; v. 272; p. 142.

Strongson, Herman L., Brooklyn, N. Y., assignor to Loeb-Strongson Corp., New York, N. Y. Pouring-spout for cans. No. 56,311; Sept. 14; v. 278; p. 321.

Stuart, Charles A., assignor to Simmons Company, Kenosha, Wis. Bedstead end. Nos. 56,632–6; Nov. 16; v. 280; p. 562.

Stuart, Charles A., assignor to Simmons Company, Kenosha, Wis. Bedstead end. No. 56,714; Nov. 30; v. 280; p. 967.

Sturgeon, William H., Ben Avon, Pa. Automobile-headlight lens. Nos. 55,337–8; May 25; v. 274; p. 787.

Suderov, Abraham, New York, N. Y. Gem-setting. No. 56,391; Oct. 5; v. 279; p. 144.

Sullivan, Mae F., Duluth, Minn. Child's sled. No. 55,099; May 4; v. 274; p. 151.

Susquehanna Silk Mills. (See Bunting, James H., assignor.)

Susquehanna Silk Mills. (See Dommenge, Harry F., Jr., assignor.)

Susquehanna Silk Mills. (See Ebel, John, assignor.)

Susquehanna Silk Mills. (See Eisele, Adolphe, assignor.)

Susquehanna Silk Mills. (See Katz, Clara, assignor.)

Susquehanna Silk Mills. (See Krupicka, Ella, assignor.)

Susquehanna Silk Mills. (See Orcutt, Leon F., assignor.)

Susquehanna Silk Mills. (See Reinhart, Ruby L., assignor.)

Susquehanna Silk Mills. (See Reith, William G., assignor.)

Swan, Herbert H., Grand Rapids, Mich. Tire-tread. No. 56,243; Aug. 31; v. 277; p. 941.

Sweeny, Jennie H., Union, S. C. Medal or badge. No. 56,083; Aug. 10; v. 277; p. 349.

Sweet, Webb C., Philadelphia, Pa. Vehicle-top. No. 54,700; Mar. 9; v. 272; p. 342.

Swimmer, Robert, New York, N. Y. Electric lamp. No. 54,701; Mar. 9; v. 272; p. 342.

Swint, William K. B., Philadelphia, Pa. Game-board. No. 56,543; Nov. 2; v. 280; p. 150.

Sykes, George, assignor to Sykes Standard Fruit Wrap Corporation, Penryn, Calif. Packing and displaying round objects. No. 54,702; Mar. 9; v. 272; p. 342.

Sykes Standard Fruit Wrap Corporation. (See Sykes, George, assignor.)

Syracuse Rubber Company. (See Mahin, Harold J., assignor.)

Szapiak, Max, St. Michael, Pa. Calendar-watch. No. 56,637; Nov. 16; v. 280; p. 562.

Tabara, Joseph, Woodhaven, N. Y. Toy. No. 55,083; May 4; v. 274; p. 148.

Taber, George H., Binghamton, N. Y. Combined muffler and cut-out. No. 55,964; Aug. 3; v. 277; p. 142.

Takeuchi, Masuyoshi, Seattle, Wash. Infant's bath-cot. No. 56,036; Aug. 10; v. 277; p. 341.

Talbot, Charles L., assignor to F. V. Corns, Chicago, Ill. Shirt. No. 54,970; Apr. 20; v. 273; p. 584.

Talbot, Vernon, assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Ice-cream scoop. No. 55,215; May 18; v. 274; p. 563.

Tarbell, Grove S., Colville, Wash. Kitchen-spoon. No. 55,540; June 22; v. 275; p. 781.

Tatler, Edgar E., Trenton, N. J., assignor to George F. Bassett and Company, New York, N. Y. Plate or similar article. No. 55,827; July 13; v. 276; p. 373.

Taylor, George M., Hartford, Conn. Tool-tray. No. 55,492; June 15; v. 275; p. 573.

Taylor, Halsey W., Warren, Ohio. Drinking-fountain bowl. No. 55,828; July 13; v. 276; p. 373.

Taylor, Harry A., New York, N. Y. Glove. No. 55,339; May 25; v. 274; p. 787.

Taylor, Thomas E., assignor to The Eclipse Stove Company, Mansfield, Ohio. Stove or range. No. 54,703; Mar. 9; v. 272; p. 343.

Teall, Oliver E., assignor to The Tissue Company, Saugerties, N. Y. Container for paper napkins. No. 56,730; Dec. 7; v. 281; p. 166.

Teats, Charles R., Columbus, Ohio. Game. No. 55,401; June 1; v. 275; p. 166.

Ten Broeck Tyre Company. (See Grote, Walther H., assignor.)

Tennent, Walter J., Norfolk, Va. Shield, badge, button, pin, or similar article. No. 55,965; Aug. 3; v. 277; p. 142.

Tenney, John, Jr., Plainfield, N. J. Tire. No. 55,100; May 4; v. 274; p. 151.

Tenney, John, Jr., Plainfield, N. J., assignor to Howe Rubber Corporation. Tire. No. 55,216; May 18; v. 274; p. 563.

Tetlow, Henry, Co. (See Scott, George B., assignor.)

Tew, Frederick S., Fort Worth, Tex. Windshield. No. 55,897; July 20; v. 276; p. 558.

Digitized by Google

Alphabetical list of patentees of designs—Continued.

Tew, James D., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Pneumatic-tire tread. No. 55,966; Aug. 3; v. 277; p. 142.
Texas Company, The. (See Gatchell, Frederick D., assignor.)
Thamm, Paul, New York, N. Y. Watch or clock dial. No. 56,731; Dec. 7; v. 281; p. 166.
Thomas, Gust, Fort Sill, Okla. Inkstand. No. 55,898; July 20; v. 276; p. 559.
Thomas, Kenneth C. (See Smith, H. B., Thomas, and Ouellette.)
Thommen, William H., Plymouth, assignor to United Phonographs Corporation, Sheboygan, Wis. Phonograph-cabinet. Nos. 54,993–55,000; Apr. 27; v. 273; p. 766.
Thompson, George E., Owantonna, Minn. Ball for lightning-rods and barn-ventilators. No. 56,715; Nov. 30; v. 280; p. 967.
Thompson, Joseph H., Joplin, Mo. Combination dinner-tray. No. 54,971; Apr. 20; v. 273; p. 584.
Thompson, Ralph E., Brookline, assignor to Gillette Safety Razor Company, Boston, Mass. Safety-razor case. No. 56,392; Oct. 5; v. 279; p. 144.
Thomsen, Max, assignor to A. Copeland, Chicago, Ill. Oil-cloth-display stand. No. 56,084; Aug. 10; v. 277; p. 350.
Thomson, Milton O., Boston, assignor, by mesne assignments, of one-half to D. B. Hill, Newton, Mass. Egg-beater. No. 55,340; May 25; v. 274; p. 788.
Thomson, Ralph K., Sioux Falls, S. D. Automobile side curtain. No. 56,109; Aug. 17; v. 277; p. 550.
Thomson, Ralph K., Sioux Falls, S. D. Automobile side curtain. Nos. 56,312–13; Sept. 14; v. 278; p. 321.
Thorpe, Walter, Mount Vernon, N. Y., assignor to The Electric Phonograph Corporation, New York, N. Y. Phonograph. No. 55,217; May 18; v. 274; p. 563.
Thralls, Luna H., Hymera, Ind. Washtub. No. 56,638; Nov. 16; v. 280; p. 562.
3-0-3 Chemical Company. (See Smith, Raymond R., assignor.)
Thwaites, William H., assignor to Thwaites X-Ray Company, Grand Rapids, Mich. Cabinet for X-ray dental apparatus. No. 54,875; Apr. 13; v. 273; p. 350.
Thwaites X-Ray Company. (See Thwaites, William H., assignor.)
Tilghman, Richard C., Washington, D. C. Signpost. No. 54,876; Apr. 13; v. 273; p. 351.
Tilt, Albert, New York, N. Y. Lapel-ribbon. No. 55,577; June 29; v. 275; p. 981.
Tilton, Perley G., Boston, Mass. Cap-cover. No. 56,037; Aug. 10; v. 277; p. 341.
Timpte, Clemens A. and T. C., Denver, Colo. Automobile-body. No. 56,244; Aug. 31; v. 277; p. 941.
Timpte, Tony C. (See Timpte, Clemens A. and T. C.)
Tin Decorating Company of Baltimore, The. (See Connor, Martha H., assignor.)
Tin Decorating Company of Baltimore, The. (See Hermani, Henry, assignor.)
Tinsman, Edgar A., assignor to The Standard Tire Company, Willoughby, Ohio. Tire. No. 55,142; May 11; v. 274; p. 362.
Tinsman, Edgar A., Willoughby, assignor to W. C. Owen, Cleveland, Ohio. Tire. Nos. 55,728–9; July 6; v. 276; pp. 179–80.
Tippett, Charles L., assignor of one-half to J. H. McCauley, Washington, D. C. Lamp. No. 55,829; July 13; v. 276; p. 373.
Titus Blatter & Company. (See Frati, Alfred, assignor.)
Tissue Company, The. (See Teall, Oliver E., assignor.)
Tokheim Oil Tank and Pump Company. (See Muxen, Matthew B., assignor.)
Tomlinson, Edward J., assignor to Splitdorf Electrical Company, Newark, N. J. Phonograph-meter. No. 56,544; Nov. 2; v. 280; p. 151.
Toohey, John F., Troy, N. Y. Game-board. No. 54,877; Apr. 13; v. 273; p. 351.
Toomey, John J., Chicago, Ill., assignor to Rathbone, Sard & Co., Albany, N. Y. Combination coal and gas range. Nos. 54,479–80; Feb. 10; v. 271; p. 318.
Toomey, John J., Chicago, Ill., assignor to Rathbone, Sard & Co., Albany, N. Y. Combination coal and gas range. (Reissue.) Nos. 14,866–7; May 25; v. 274; pp. 768–9.
Torgeson, Clara, Radium, Minn. Serving-plate. No. 55,218; May 18; v. 274; p. 563.
Touraine Company, The. (See Duane, Harry B., assignor.)
Tousley, Nelson E., Belmont, and A. H. Wharf, assignors to Hood Rubber Company, Watertown, Mass. Boot. No. 55,730; July 6; v. 276; p. 180.
Townsend, Charles R., assignor to The Autoset Clamp Company, Limited, Birmingham, England. Clamping-dog. Nos. 55,830–1; July 13; v. 276; p. 373.
Townsend, Charles R., assignor to The Autoset Clamp Company, Limited, Birmingham, England. Clamping-dog. No. 55,900; July 20; v. 276; p. 559.
Traute, Henry C., Fairhaven, N. J., assignor to The Diamond Match Company, Chicago, Ill. Combined match-holder and ash-receptacle. No. 54,567; Mar. 2; v. 272; p. 142.
Traute, Henry C., Fairhaven, N. J., assignor to The Diamond Match Company, Chicago, Ill. Vending-machine case. No. 56,038; Aug. 10; v. 277; p. 342.
Traute, Henry C., Fairhaven, N. J., assignor to The Diamond Match Company, Chicago, Ill. Combined match-holder and ash-receptacle. No. 56,039; Aug. 10; v. 277; p. 342.
Travelight Mfg. Co. (See Schisgall, Theodore, assignor.)
Traynor, William B., Chicago, Ill. Button or badge. No. 54,790; Mar. 23; v. 272; p. 696.
Trechsel, Walter K., Birmingham, Ala. Coupon-book. No. 56,842; Dec. 28; v. 281; p. 751.
Trimble, Arthur G., Pittsburgh, Pa. Christian-service flag. No. 54,972; Apr. 20; v. 273; p. 584.
Triumph Manufacturing Company. (See Pinkney, Bryan D., assignor.)
Troll, Frederick J., assignor to The Loadometer Company, Baltimore county, Md. Load-measuring device. No. 55,901; July 20; v. 276; p. 559.
Trout, Charles L., New York, N. Y. Wedding-ring. Nos. 54,481–4; Feb. 10; v. 271; p. 318.
Trout, Charles L., New York, N. Y. Wedding-ring. Nos. 54,973–4; Apr. 20; v. 273; p. 584.
Trump, Elno H., Barberton, Ohio. Elastic vehicle-tire. No. 55,101; May 4; v. 274; p. 151.
Trump, Elno H., assignor to The Biltwell Tire & Rubber Company, Barberton, Ohio. Elastic vehicle-tire. No. 55,832; July 13; v. 276; p. 374.
Tsuchiya, Inosuke, Sausalito, Calif. Garden-rake. No. 54,878; Apr. 13; v. 273; p. 351.
Turton, William, East Orange, N. J. Bag-frame member or similar article. No. 55,402; June 1; v. 275; p. 166.
U. S. Compression Inner Tube Company. (See Pennington, Andrew J., assignor.)
Ullman, Albert, Assignor to Scott-Ullman Company, Cleveland, Ohio. Lighting-fixture. No. 54,704; Mar. 9; v. 272; p. 343.
Ullman, Albert, assignor to Scott-Ullman Company, Cleveland, Ohio. Lighting-fixture. No. 55,341; May 25; v. 274; p. 788.
Underwood Typewriter Company. (See Helmond, William F., assignor.)
United Phonographs Corporation. (See Thommen, William H., assignor.)
United States Glass Company. (See Haley, Reuben, assignor.)
United States Sanitary Specialties Corporation. (See Morris, Edgar L., assignor.)
Universal Shoe Plate Company, The. (See West, Mansfield M., assignor.)
Unte, Vincent, Detroit, Mich. Toy wheelbarrow. No. 55,578; June 29; v. 275; p. 982.
Upton, William H., New York, N. Y. Casing for vacuum-cleaners. No. 56,393; Oct. 5; v. 279; p. 144.
Utter, Bror A., Chicago, Ill. Casket-bar bracket or lug. Nos. 56,040–1; Aug. 10; v. 277; p. 342.
Valentine, Granville M., Springfield, Ohio. Cabinet-table. No. 54,485; Feb. 10; v. 271; p. 319.
Vallely, John J., Cleveland, Ohio, assignor to General Electric Company. Shade or a reflector. No. 54,705; Mar. 9; v. 272; p. 343.
Van Bergh Silver Plate Company, The. (See Leavenworth, Seth H., assignor.)
Van Briggle, Lilburn H., Indianapolis, Ind. Carbureter. No. 54,706; Mar. 9; v. 272; p. 343.
Vanderkamp, John, assignor to The Goldsmith Publishing Company, Cleveland, Ohio. Finger-rest and pointer for a game. No. 56,085; Aug. 10; v. 277; p. 350.
Vanderslice, George H., assignor to Zenite Metal Company, Indianapolis, Ind. Single-bead molding or welt. No. 56,716; Nov. 30; v. 280; p. 968.
Van de Wall, Constant, New York, N. Y., assignor to Waite Grass Carpet Company, Oshkosh, Wis. Grass rug. Nos. 54,791–2; Mar. 23; v. 272; pp. 696–7.
Van Osdel, William J., Chicago, Ill. Handle for hair-clippers. No. 54,861; Apr. 13; v. 273; p. 348.
Van Schrum, William H., Columbus, Ohio. Flying toy. No. 55,102; May 4; vol. 274; p. 151.
Van Shrum, William H., Columbus, Ohio. Flying toy. No. 55,732; July 6; v. 276; p. 180.
Van Schuck, Leon F., Chicago, Ill. Pendant. No. 54,793; Mar. 23; v. 272; p. 697.
Van Wagner, Leo M., and J. A. Duffy, Far Rockaway, N. Y. Cushion sole-pad for boots and shoes. No. 55,343; May 25; v. 274; p. 788.
Van Wuyckhuyse, John, Rochester, N. Y. Rocking-horse. No. 54,879; Apr. 13; v. 273; p. 351.
Venn, Charles J., Chicago, Ill. Tire-tread. No. 54,975; Apr. 20; v. 273; p. 584.
Vernon, Harriet J., and M. I. Helton, Harlowton, Mont. Handy rack. No. 54,707; Mar. 9; v. 272; p. 343.
Ver-Vac Company, The. (See Nickolson, Harry R., assignor.)
Vester, Alfred, & Sons. (See Vester, Gustave J., assignor.)
Vester, Gustave J., assignor to Alfred Vester & Sons, Incorporated, Providence, R. I. Sconce for a lighting-fixture or similar article. No. 55,342; May 25; v. 274; p. 788.
Vester, Gustave J., assignor to Alfred Vester & Sons, Incorporated, Providence, R. I. Sconce for a lighting-fixture or similar article. No. 55,403; June 1; v. 275; p. 166.
Vetter, Ignatius J., New York, N. Y., assignor to Bigelow Hartford Carpet Company. Rug. No. 54,488; Feb. 10; v. 271; p. 319.

Digitized by Google

Victor, David E., assignor to Association of Army and Navy Stores, Inc., New York, N. Y. Badge. No. 55,344; May 25; v. 274; p. 788.
Victor, Homer M., Independence, Mo. Automobile-top. No. 54,708; Mar. 9; v. 272; p. 343.
Victor Talking Machine Company. (See Kieffer, Eugene T., assignor.)
Victory Manufacturing Company. (See Healy, Martin J., assignor.)
Viggiano, Peter, Shinnston, W. Va. Jewelry-holder. No. 56,314; Sept. 14; v. 278; p. 322.
Virgile, Gabriel J., New York, N. Y. Textile fabric for decorative purposes. Nos. 56,208–9; Aug. 24; v. 277; p. 750.
Viscardi, Alfredo, New York, N. Y. Screen. No. 55,731; July 6; v. 276; p. 180.
Vitanola Talking Machine Company. (See Schiff, Henry T., assignor.)
Vivaudou, Victor, New York, N. Y. Container. Nos. 56,210–11; Aug. 24; v. 277; p. 751.
Vogue Manufacturing Company. (See Frieland, Harry, assignor.)
Von Vargyas, Eugene, Washington, D. C. Headlight attachment. Nos. 54,486–7; Feb. 10; v. 271; p. 319.
Von Stetten, Julius O., Philadelphia, Pa., assignor to Philadelphia Metal Drying Form Company, New Castle, Del. Hosiery-drying form. No. 55,733; July 6; v. 276; p. 180.
Vories, Charles A., assignor to Albert Brush, Los Angeles, Calif. Signal-light for automobiles. No. 55,833; July 13; v. 276; p. 374.
Wadsworth, Arthur W., Fort Thomas, assignor to The Wadsworth Watch Case Company, Dayton, Ky. Watch-case. Nos. 56,787–8; Dec. 14; v. 281; p. 377.
Wadsworth, Arthur W., Fort Thomas, assignor to The Wadsworth Watch Case Company, Dayton, Ky. Watch-case-crown. No. 56,789; Dec. 14; v. 281; p. 377.
Wadsworth Watch Case Company. (See Wadsworth, Arthur W., assignor.)
Wadsworth Watch Case Company, The. (See Williams, Lois M., assignor.)
Waffle, Frederick N. (See Kenneth, J. H., and Waffle.)
Wagner, Aurea D. (See De Richelieu, W. E., and Wagner.)
Wagner, Bernard P., assignor to The Wagner Manufacturing Company, Sidney, Ohio. Metal baking-pan. No. 55,734; July 6; v. 276; p. 180.
Wagner, Ernest A., Gardiner, Me. Play-shoe. No. 56,717; Nov. 30; v. 280; p. 968.
Wagner Manufacturing Company, The. (See Wagner, Bernard P., assignor.)
Wahl, John C., Chicago, Ill., assignor to The Whal Company, Wilmington, Del. Pen or pencil case. No. 56,681; Nov. 23; v. 280; p. 758.
Waite Grass Carpet Company. (See Brasz, Arnold F., assignor.)
Waite Grass Carpet Company. (See Van de Wall, Constant, assignor.)
Waite Grass Carpet Company. (See Waite, Ossian T., assignor.)
Waite Grass Carpet Company. (See Wight, Blanche L., assignor.)
Waite, Ossian T., assignor to Waite Grass Carpet Company, Oshkosh, Wis. Grass rug. Nos. 54,794–6; Mar. 29; v. 272; p. 697.
Waite, Ossian T., assignor to Waite Grass Carpet Company, Oshkosh, Wis. Grass rug. No. 54,880; Apr. 13; v. 273; p. 351.
Wakefield, Walter J. (See McIntyre, H. J., and Wakefield.)
Waldo, Algermont H., St. Paul, Minn. Rug. No. 55,834; July 13; v. 276; p. 374.
Waldo, Algermont H., St. Paul, Minn. Rug. Nos. 55,902–18; July 20; v. 276; pp. 559–62.
Waldref, Grant. (See Mason, Charles E., assignor.)
Walega, Stanley, Chicago, Ill. Curtain-pole holder. No. 54,709; Mar. 9; v. 272; p. 344.
Walker Brothers Company. (See Walker, Willard R., assignor.)
Walker Manufacturing Company. (See Mizer and Jakob, assignors.)
Walker, Willard R., assignor to Walker Brothers Company, Syracuse, N. Y. Culinary fixture. No. 56,315; Sept. 14; v. 278; p. 322.
Wallace, R., & Sons Manufacturing Company, The. (See Knott, Henry, assignor.)
Wallace, R., & Sons Mfg. Co. (See Talbot, Vernon, assignor.)
Walrus Manufacturing Company. (See Gray, Leonard G., assignor.)
Walsh, John J., Brooklyn, N. Y. Letter-sheet. No. 54,710; Mar. 9; v. 272; p. 344.
Waltham Watch Company. (See Marsh, Edward A., assignor.)
Walton, Wirt W., assignor to Noma Motor Corporation, New York, N. Y. Automobile-windshield. No. 55,444; June 8; v. 275; p. 371.
Ward, Artemas, Jr., Detroit, Mich. Instrument-board for automobiles. No. 56,212; Aug. 24; v. 277; p. 751.
Ward, Artemas, Jr., Detroit, Mich. Instrument-board for automobiles. No. 56,790; Dec. 14; v. 281; p. 377.
Ward, Neil C. (See Scudder, E., and Ward.)
Warner Brothers Company, The. (See Warner, D. C., and Langhammer, assignors.)
Warner Brothers Company, The. (See Warner, De Ver H., assignor.)
Warner, De Ver C., and Frank L. Langhammer, assignors to The Warner Brothers Company, Bridgeport, Conn. Brassière-hook. No. 55,219; May 18; v. 274; p. 563.
Warner, De Ver H., assignor to The Warner Brothers Company, Bridgeport, Conn. Hose-supporting loop. No. 56,042; Aug. 10; v. 277; p. 343.
Waters, John J., Brooklyn, N. Y. Broad-knife. No. 56,574; Nov. 9; v. 280; p. 358.
Watling, John B., Chicago, Ill. Scale-dial. No. 56,394; Oct. 5; v. 279; p. 144.
Watson Company, The. (See Woodward, F. Russell, assignor.)
Waugh, Coulton, New York, N. Y. Textile fabric for decorative purposes. Nos. 55,345–6; May 25; v. 274; pp. 788–9.
Waugh, Coulton, New York, N. Y. Textile fabric for decorative purposes. No. 56,086; Aug. 10; v. 277; p. 350.
Waugh, Coulton, New York, N. Y. Textile fabric for decorative purposes. No. 56,213; Aug. 24; v. 277; p. 751.
Wayno, Frank. (See La Vanway, Victor E. and O. L., assignors.)
Wearne, Harry, New York, N. Y. Printed fabric or similar article of manufacture having surface ornamentation. Nos. 56,682–3; Nov. 23; v. 280; p. 758.
Wear-Well Tire Company. (See Large, George C., assignor.)
Weber, Alexander, Los Angeles, Calif. Crank-pin-turning tool. No. 56,791; Dec. 14; v. 281; p. 377.
Weber, Edwin H., Meriden, Conn. Chandelier. No. 54,711; Mar. 9; v. 272; p. 344.
Weber, Edwin H., Meriden, Conn. Bracket. No. 54,712; Mar. 9; v. 272; p. 344.
Weber, Edwin H., Meriden, Conn. Lamp-socket cover. No. 54,713; Mar. 9; v. 272; p. 344.
Weber, Jacob H., Brooklyn, N. Y. Phonograph-cabinet. No. 55,220; May 18; v. 274; p. 564.
Weeks, Frank A., Plainfield, N. J. Loose-leaf-pad-calendar holder. No. 55,221; May 18; v. 274; p. 564.
Weeks, Frank A., Plainfield, N. J. Inkstand. Nos. 55,967–8; Aug. 3; v. 277; p. 143.
Weeks, Frank A., Plainfield, N. J. Cover for inkstands. No. 55,969; Aug. 3; v. 277; p. 143.
Wegenaar, Louis A., Brooklyn, N. Y. Powder-container or similar receptacle. No. 54,514; Feb. 17; v. 271; p. 503.
Wegiel, Wojciech, Ludlow, Mass. Basket. No. 56,245; Aug. 31; v. 277; p. 941.
Weible, John, and F. Lohr, Stoyestown, Pa. Phonograph-cabinet. No. 54,489; Feb. 10; v. 271; p. 319.
Weller, Millard K., Greenwood, Miss. Finger-ring. No. 56,718; Nov. 30; v. 280; p. 968.
Weinberg, Isaac H., and C. F. Bisbing, New York, N. Y. Parasol or umbrella. No. 56,043; Aug. 10; v. 277; p. 343.
Weinberger, Harry, Brooklyn, N. Y. Doll, statuette, sculpture, or article of similar nature. No. 55,579; June 29; v. 275; p. 982.
Weiner, Morris, and W. Loeb, New York, N. Y. Finger-ring. Nos. 56,087–92; Aug. 10; v. 277; pp. 350–1.
Weissenbach, Alfred, Chicago, Ill. Child's dress. Nos. 56,639–41; Nov. 16; v. 280; p. 563.
Weite, Joseph, Jr. (See Shulte and Weite.)
Welwoda, Mathias, Brooklyn, N. Y. Casing for indicators such as clocks, barometers, or the like. No. 54,568; Mar. 2; v. 272; p. 142.
Welch, Jesse C., Tacoma, Wash. Toy vehicle. No. 55,445; June 8; v. 275; p. 371.
Welch, Jesse C., Tacoma, Wash. Toy vehicle. No. 55,580; June 29; v. 275; p. 982.
Weller, Hubert R., assignor to Garrett & Company, Incorporated, Brooklyn, N. Y. Bottle. No. 56,110; Aug. 17; v. 277; p. 550.
Wellman, Lester R., assignor to Friedley-Voshardt Co., Chicago, Ill. Plate for lighting-fixtures. No. 56,485; Oct. 26; v. 279; p. 698.
Wells, Amelia B., New York, N. Y. Lady's dress. Nos. 54,490–1; Feb. 10; v. 271; p. 320.
Welsbach Company. (See Antrim, William D., assignor.)
Welsh, Sidney F. (See Moore and Welsh.)
Wentz, Jere L., Passaic, N. J. Dish or receptacle. No. 55,222; May 18; v. 274; p. 564.
Wescott, Fred A., Corning, N. Y. Motor-vehicle signal. Nos. 55,223–4; May 18; v. 274; p. 564.
West, Mansfield M., assignor to The Universal Shoe Plate Company, Cleveland, Ohio. Shoe-plate. No. 56,486; Oct. 26; v. 279; p. 698.
West Shore Embroidery Company. (See Seidel, Martin, assignor.)
Western Gas Fixture Co., The. (See Crowell, Frank S., assignor.)
Westphal, Gottfried, Guttenberg, N. J. Spindle for lighting-fixtures. No. 54,569; Mar. 2; v. 272; p. 142.
Westphal, Gottfried, Guttenberg, N. J., assignor to Shapiro & Aronson, Inc., New York, N. Y. Arm for lighting-fixtures. No. 54,881; Apr. 13; v. 273; p. 351.

Digitized by Google

Alphabetical list of patentees of designs—Continued.

Westphal, Gottfried, Guttenberg, N. J., assignor to Shapiro and Aronson Inc., New York, N. Y. Plate for lighting-fixtures. No. 55,347; May 25; v. 274; p. 789.
Westphal, Gottfried, Guttenberg, N. J., assignor to Shapiro & Aronson Inc., New York, N. Y. Wall-plate for lighting-fixtures. No. 56,495; June 15; v. 275; p. 573.
Whal Company, The. (See Wahl, John C., assignor.)
Wheeler, Wellington B., El Segundo, Calif. Bill-board arch. No. 56,044; Aug. 10; v. 274; p. 343.
Whelan, Christopher C. (See Sedell, C. H., Whelan, and Beirry.)
White, D'Orsay M., Indianapolis, Ind., assignor to La Fayette Motors Company. Instrument-dial. No. 56,045; Aug. 10; v. 274; p. 343.
White, Fred E., assignor to Central Oil & Gas Stove Company, Gardner, Mass. Oil-stove. No. 56,111; Aug. 17; v. 247; p. 551.
White, Harold S., assignor to Owl Cigar Lighter Co., Philadelphia, Pa. Cigar-lighter. No. 56,545; Nov. 2; v. 280; p. 151.
White, Joseph M., Danville, Ill. Automobile-footboard. No. 55,494; June 15; v. 275; p. 574.
White Products Company. (See Hicks, Oscar H., assignor.)
White, William L., Old Orchard, Me. Combined seat and table. No. 54,882; Apr. 13; v. 273; p. 352.
White, William L., Old Orchard, Me. Caster for cruets. Nos. 55,495–6; June 15; v. 275; p. 574.
Whiting Manufacturing Company. (See Ball, George E., assignor.)
Whiting Manufacturing Company. (See Reimherr, Adolph, assignor.)
Whittington, Frederik G., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Lamp-bracket. No. 56,792; Dec. 14; v. 281; p. 378.
Whorf, Allison H. (See Tousley, N. E., and Whorf.)
Wiberley, Frank, Jamaica, assignor to Barthels Manufacturing Company, Glendale, N. Y. Tape. No. 55,348; May 25; v. 274; p. 789.
Wids Company. (See Wood, George C., assignor.)
Wiener, Martin L., Akron, Ohio. Pneumatic tire. No. 54,797; Mar. 23; v. 272; p. 697.
Wierschng, Edward H. and E. K., Binghamton, N. Y. Toothbrush-casing. No. 55,143; May 11; v. 274; p. 362.
Wierschng, Edward K. (See Wierschng, Edward H. and E. K.)
Wigginton, George P., Kalamazoo, Mich. Desk. No. 55,497; June 15; v. 275; p. 574.
Wight, Blanche L., Oak Park, Ill., assignor to Waite Grass Carpet Company, Oshkosh, Wis. Grass rug. Nos. 54,798–806; Mar. 23; v. 272; pp. 698–9.
Wildenberg Bros. (See Wildenberg, Jacob, assignor.)
Wildenberg, Jacob, assignor to Wildenberg Bros., New York, N. Y. Bezel. No. 55,926; July 20; v. 276; p. 564.
Wildman Rubber Company, The. (See Wildman, William W., assignor.)
Wildman, William W., assignor to The Wildman Rubber Company, Detroit, Mich. Tire. No. 56,046; Aug. 10; v. 277; p. 343.
Wilkinson, Hiram R., Des Moines, Iowa. Sign. No. 56,395; Oct. 5; v. 279; p. 144.
Will & Baumer Company, The. (See Flannery, Martin A., assignor.)
Will & Baumer Company. (See Lorenz, William J., assignor.)
Will, Victor R., assignor to P-A-T-S Manufacturing Company, Lodi, Calif. Automobile direction-signal. No. 56,047; Aug. 10; v. 277; p. 343.
Willett, Benedict E., Montgomery county, near Dayton, Ohio. Display-rack. No. 54,883; Apr. 13; v. 273; p. 352.
Williams, Ardie, assignor of one-half to E. A. Parkford and H. Boyer, Los Angeles, Calif. Tonneau-windshield. No. 56,546; Nov. 2; v. 280; p. 151.
Williams, David C., Arlington, Mass. Talking-machine cabinet. No. 55,103; May 4; v. 274; p. 151.
Williams, Earl B. (See Rieg, B. E., and Williams.)
Williams, George E., Laramie, Wyo. Wrench. No. 54,673; Mar. 9; v. 272; p. 338.
Williams, Lois M., Fort Thomas, Ky., assignor to Elgin National Watch Company, Elgin, Ill. Timepiece-hands. No. 56,793; Dec. 14; v. 281; p. 378.
Williams, Lois M., Fort Thomas, assignor to The Wadsworth Watch Case Company, Dayton, Ky. Watchcase-bow. Nos. 56,794–6; Dec. 14; v. 281; p. 378.
Williams, Orr H., Columbus, Ohio. Automobile-tire. No. 54,570; Mar. 2; v. 272; p. 143.
Williams, Ralph E., Los Angeles, Calif. Electric-lamp handle and supporting-bracket. No. 55,349; May 25; v. 274; p. 789.
Williams, Russell B., Bartlett, Kans. Pruning-tool. No. 55,530; May 25; v. 274; p. 790.
Williamson, Richard L., Oakland, Calif. Tractor. No. 55,225; May 18; v. 274; p. 564.
Willis, Albert T., assignor to Exelold Company of Pennsylvania, East Stroudsburg, Pa. Rattle. No. 56,487; Oct. 26; v. 279; p. 698.
Willson, Frederick, assignor to T. A. Willson & Co., Inc., Reading, Pa. Goggles. No. 55,104; May 4; v. 274; p. 152.
Willson, T. A., & Co. (See Willson, Frederick, assignor.)
Wilmarth, Frank L., Central Falls, R. I. Emblem, badge, pin, ornament, or similar article. No. 55,105; May 4; v. 274; p. 152.
Wilson, Douglas A., Peoria, Ill. Motor-cultivator. No. 54,807; Mar. 23; v. 272; p. 699.
Wilson Rubber Company. (See Breitenstein, Arthur L., assignor.)
Wilson, Walter A., Armley, Leeds, England. Radiant for gas-heaters. No. 55,541; June 22; v. 275; p. 781.
Winchenbaugh, Lester P., Hyde Park, Mass., assignor to Specialty Paper Manufacturing Company, Boston, Mass. Ornamental paper, cardboard, and similar articles. No. 56,684; Nov. 23; v. 280; p. 758.
Winchester Repeating Arms Company. (See Paine, Arthur P., assignor.)
Winder, Samuel E., assignor to Novelty Cup & Cone Company, Chicago, Ill. Ice-cream cone. No. 56,488; Oct. 26; v. 279; p. 698.
Wingert, Tessie, San Francisco, Calif. Lamp. No. 56,843; Dec. 28; v. 281; p. 751.
Winter, George H. (See Kearney, J. J., and Winter.)
Wipf, Herman, Narberth, assignor to John Wyeth & Bro., Inc., Philadelphia, Pa. Antiseptic tablet. No. 55,542; June 22; v. 275; p. 781.
Wise, Bey A., Vincennes, Ind. Tower-monument. No. 55,920; July 20; v. 276; p. 562.
Wise, George, assignor to The Elwood Myers Company, Springfield, Ohio. Leather, paper, or the like. No. 56,396; Oct. 5; v. 279; p. 145.
Wiss, Albert, Cortlandt township, Westchester county, N. Y. Watchcase, medal, or similar article. No. 54,492; Feb. 10; v. 271; p. 320.
Wissing, Alphons J., Peoria, Ill. Battery-steamer. No. 56,397; Oct. 5; v. 279; p. 145.
Witcombe McGeachin & Co. (See Abolin, Harry T., assignor.)
Witcombe, McGeachin & Co. (See Ericson, Emile, assignor.)
Witcombe, McGeachin & Co. (See Fauser, Gustave M., assignor.)
Withers, Ida A., Fort Worth, Tex. Statuette. No. 55,835; July 13; v. 276; p. 374.
Wittnauer, A., Co. (See Colomb, Charles F., assignor.)
Wittstein, Charles T., Newark, N. J. Gem-mounting. No. 54,976; Apr. 20; v. 273; p. 585.
Wittstein, Charles T., Newark, N. J., assignor to Arch Crown Mfg. Co. Finger-ring. No. 56,719; Nov. 30; v. 280; p. 968.
Wojciechowski, Frank, Staunton, Ill.; Pocket cigar-holder. No. 56,112; Aug. 17; v. 277; p. 551.
Wolcott, Charles M., Baltimore, Md. Rubber tread portion for shoes. No. 54,515; Feb. 17; v. 271; p. 503.
Wolcott, Frank E., Hartford, Conn. Dish-washing machine. No. 55,351; May 25; v. 274; p. 790.
Wolff, Franklyn J., Trenton, N. J. Urinal-stall. No. 54,493; Feb. 10; v. 271; p. 320.
Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora Phonograph Corporation. Phonograph-cabinet. No. 54,571; Mar. 2; v. 272; p. 143.
Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora Phonograph Corporation. Phonograph-cabinet. No. 55,001; Apr. 27; v. 273; p. 768.
Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora Phonograph Corporation. Phonograph-cabinet. No. 56,214; Aug. 24; v. 277; p. 751.
Wolff, Joseph, assignor to Sonora Phonograph Corporation, Brooklyn, N. Y. Tone-arm for talking-machines. No. 56,316; Sept. 14; v. 278; p. 322.
Wolff, Joseph, assignor to Sonora, Inc., Brooklyn, N. Y. Phonograph-cabinet. Nos. 56,317–29; Sept. 14; v. 278; p. 322.
Wolff, Joseph, assignor to Sonora Phonograph Corporation, Brooklyn, N. Y. Phonograph-cabinet. Nos. 56,642–3; Nov. 16; v. 280; p. 563.
Wolper, Harry B., assignor to Nightingale Manufacturing Company, Chicago, Ill. Talking-machine cabinet. Nos. 55,226–7; May 18; v. 274; p. 565.
Wolter, Herman H., assignor to Edward Miller & Co., Meriden, Conn. Lamp. No. 55,919; July 20; v. 276; p. 562.
Wolter, Herman H., assignor to Edward Miller & Co., Meriden, Conn. Lamp. Nos. 55,921–4; July 20; v. 276; p. 563.
Wolter, Herman H., assignor to Edward Miller & Co., Meriden, Conn. Support. No. 55,925; July 20; v. 276; p. 564.
Wood, Andrew C., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Searchlight. No. 55,106; May 4; v. 274; p. 152.
Wood, George C., Boston, Mass., assignor to Wids Company, St. Paul, Minn. Rubber heel. No. 56,398; Oct. 5; v. 279; p. 145.
Wood specialties. (See Maas, William F., assignor.)
Woodbury, Charles P., Kansas City, Mo. Sword hilt and scabbard. No. 55,498; June 15; v. 275; p. 574.
Woodward, F. Russell, assignor to The Watson Company, Attleboro, Mass. Spoon or similar article. No. 55,002; Apr. 27; v. 273; p. 769.
World Tire Corporation. (See Breitenstein, Arthur L., assignor.)

Digitized by Google

Alphabetical list of patentees of designs—Continued.

Worth, George E., Rochester, N. Y. Child's sleigh. No. 55,352; May 25; v. 274; p. 790.
Worth, George E., Rochester, N. Y. Toy vehicle. No. 55,970; Aug. 3; v. 277; p. 143.
Wotherspoon, James R., Philadelphia, Pa., and F. E. Coatsworth, Lincoln, Nebr. Brooder-stove. No. 56,732; Dec. 7; v. 281; p. 166.
Wraith, George A., Zanesville, Ohio. Game-board. No. 55,581; June 29; v. 275; p. 982.
Wright, Bernard F., assignor to Federal Motor Truck Company, Detroit, Mich. Vehicle radiator ornament. No. 54,622; Mar. 9; v. 272; p. 330.
Wright, Joseph F., Cincinnati, Ohio. Handbag or similar article. No. 56,261; Sept. 14; v. 278; p. 313.
Wuyckhuyse, John, Rochester, N. Y. Child's vehicle. No. 56,207; Aug. 24; v. 277; p. 750.
Wyeth, John, & Bro. (See Wipf, Herman, assignor.)
Wygold, Daniel M., Denver, Colo. Humidor. No. 55,446; June 8; v. 275; p. 371.
Yale Novelty Company. (See Ernst, F. F., and Gorman, assignors.)
Yates, William G., assignor to The Adams-Bagnall Electric Company, Cleveland, Ohio. Reflector. No. 56,547; Nov. 2; v. 280; p. 151.
Yost, Henry W., Dayton, Ohio. Casing for a fluid-motor. No. 56,720; Nov. 30; v. 280; p. 968.
Young, Frank C., New Haven, Conn. Hand-support for teaching penmanship. No. 56,489; Oct. 26; v. 279; p. 698.
Young, John C., Kansas City, Mo. Flag. No. 55,836; July 13; v. 276; p. 375.
Zaloudek, Josef F., Omaha, Nebr. Knife. No. 54,808; Mar. 23; v. 272; p. 700.
Zeis, George J., Buffalo, N. Y. Inclosing casing for an automobile-signal. No. 55,353; May 25; v. 274; p. 790.
Zenite Metal Company. (See Vanderslice, George H., assignor.)
Zidell, William I., Los Angeles, Calif. Child's romper. No. 54,809; Mar. 23; v. 272; p. 700.
Zipp, John, and J. P. Morbach, Cleveland, Ohio. Scoreboard. No. 55,499; June 15; v. 275; p. 574.
Ziv, Abraham J., Chicago, Ill. Statuette. No. 55,543; June 22; v. 275; p. 781.
Ziv, Abraham J., Chicago, Ill. Hat. No. 55,837; July 13; v. 276; p. 375.
Zographos, Alexander G., assignor to Louis Hamburger & Co., New York, N. Y. Lace. Nos. 56,399–401; Oct. 5; v. 279; pp. 145–6.
Zoldo, Frank, New York, N. Y. Jewelry—namely, finger-ring or article of similar nature. No. 56,402; Oct. 5; v. 279; p. 146.
Zonta Tire and Rubber Company. (See De Holcser, Lewis, assignor.)
Zork, David, assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Phonograph-cabinet. Nos. 55,003–8; Apr. 27; v. 278; p. 769.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

A. B. Manufacturing Company, Providence, R. I. Jewelry, not including watches. No. 133,889; Aug. 10; v. 277; p. 385
A. B. C. Co., Highland Park, Ill. Pharmaceutical preparation for chap, sunburn, and skin irritation. No. 132,742; June 29; v. 275; p. 1017.
A. O. Chemical Co., Ocilla, Ga. Insecticide. No. 134,611; Sept. 14; v. 278; p. 354.
A R G Auxiliary Spring Co., Birmingham, Ala. Vehicle-springs, fender-braces, &c. No. 130,150; Apr. 13; v. 273; p. 401.
A/S. Herman A. Kähler, Næstved, Denmark. Crockery, earthenware, porcelain. No. 129,007; Jan. 20; v. 270; p. 474.
A/S Det Almindelige Handelskompagni, Copenhagen, Denmark. Vacuum-cleaners. No. 131,078; May 4; v. 274; p. 195.
A/S Det Almindelige Handelskompagni, Copenhagen, Denmark. California hops. No. 131,977; May 4; v. 274; p. 195.
A/S Det Almindelige Handelskompagni, Copenhagen, Denmark. Turpentine. No. 132,403; June 22; v. 275; p. 819.
A/S Det Almindelige Handelskompagni, Copenhagen, Denmark. Carbolic acid. No. 132,665; June 29; v. 275; p. 1015.
Aaron and Hall, New York, N. Y. Infants' wear. No. 130,451; Apr. 27; v. 273; p. 801.
Abbe, Paul O., New York, N. Y. Crushing, cutting, mixing, &c., machinery. Nos. 137,905–6; Dec. 7; v. 281; p. 200.
Abbott Corporation, Detroit, Mich. Automobile pleasure and business cars and motor-trucks. No. 130,452; Apr. 27; v. 273; p. 801.
Abbott, Edwin A., Wilkes-Barre, Pa. Chemical preparation for the removal of metal from oxid. No. 135,553; Aug. 3; v. 277; p. 169.
Abbott Laboratories, Chicago, Ill. Antiseptic preparation. No. 137,522; Nov. 30; v. 280; p. 995.
Abbott Laboratories, The, Chicago, Ill. Anesthetics. No. 138,409; Dec. 28; v. 281; p. 781.
Abbott Laboratories, The, Chicago, Ill. Effervescent salts. No. 138,410; Dec. 28; v. 281; p. 781.
Abel Bros. & Co., Inc., New York, N. Y. Rings, brooches, bar-pins, lavallières. No. 130,025; Apr. 6; v. 273; p. 179.
Abel, William W., Macon, Ga. Preparation for the treatment of biliousness, constipation, foul stomach, &c. No. 136,281; Nov. 2; v. 280; p. 177.
Aberdeen Packing Co., Aberdeen, Wash. Canned salmon. No. 128,587; Jan. 13; v. 270; p. 335.
Aberdeen Packing Co., Aberdeen, Wash. Canned salmon. No. 131,012; May 4; v. 274; p. 193.
Aborno Laboratory, Lancaster, Wis. Remedy for promoting fertility of live stock. No. 128,274; Jan. 6; v. 270; p. 177.
Abradant Products Company, Philadelphia, Pa. Grinding and polishing wheels and blocks. No. 131,948; June 8; v. 275; p. 413.
Abraham, A. G., Company, Moline, Ill. Candy. No. 135,880; Oct. 26; v. 279; p. 715.
Abram, Isaac, Duluth, Minn. Women's waists, sweaters, coats, &c. No. 137,085; Nov. 23; v. 280; p. 789.
Abrams, Saul D., Boston, Mass. Foods and ingredients of foods. No. 130,143; Apr. 13; v. 273; p. 401.
Abramson, Jennie, Chippewa Falls, Wis. Salve for skin eruptions. No. 138,411; Dec. 28; v. 281; p. 781.
Abrasive Company, Philadelphia, Pa. Grinding and polishing wheels. No. 133,888; Aug. 10; v. 277; p. 385.
Abrasives. Manning Abrasive Co. No. 129,784; Mar. 9; v. 272; p. 365.
Accounting Machine Company, New York, N. Y. Memorandum-paper holders. No. 134,869; Sept. 21; v. 278; p. 529.
Ace Manufacturing Company, St. Louis, Mo. Mechanical starting devices for automobiles. No. 130,596; May 4; v. 274; p. 181.
Acherman, Joseph, & Co., Monroe, Wis. Limburger cheese. No. 129,110; Jan. 27; v. 270; p. 613.
Acherman, Joseph, Co., Monroe, Wis. Cheese. No. 129,819; Feb. 17; v. 271; p. 507.
Achilles Rubber and Tire Company, Inc., Binghamton, N. Y. Rubber tire casings and tubes, belting, &c. No. 133,554; Aug. 3; v. 277; p. 169.
Achilles Rubber and Tire Company, Inc., Binghamton, N. Y. Rubber-tire casings and tubes. No. 135,881; Oct. 26; v. 279; p. 715.
Acidulated Drug Co., New York, N. Y. Medicinal compound—viz., acetylsalicylic acid free from uncombined salicylic acid. No. 129,411; Feb. 24; v. 271; p. 677.
Acme Chemical Mfg. Co., New Orleans, La. Medicinal treatment for catarrhal conditions. No. 134,331; Aug. 31; v. 277; p. 971.
Acme Mills, The, Hopkinsville, Ky. Self-rising wheat-flour. No. 131,949; June 8; v. 275; p. 413.
Acme Packing Co., Chicago, Ill. Meat patties. No. 128,588; Jan. 13; v. 270; p. 335.
Acme Packing Co., Chicago, Ill. Canned pork and beans, apple-butter, jams and jelly. No. 134,332; Aug. 31; v. 277; p. 971.
Acme Packing Company, The, Chicago, Ill. Canned pork and beans, apple-butter, jams, jellies, and preserves. No. 132,602; June 29; v. 275; p. 1013.
Acme Phonograph Company of Kansas City, The, Kansas City, Mo. Phonographs and records. No. 132,603; June 29; v. 275; p. 1013.
Acme Shear Company, The, Bridgeport, Conn. Scissors and shears. Nos. 133,555–6; Aug. 3; v. 277; p. 169.
Acme Shear Company, The, Bridgeport, Conn. Scissors and shears. Nos. 137,489–90; Nov. 23; v. 280; p. 802.
Acme Ventilator Corporation, Lynn, Mass. Ventilators for exterior use on houses and buildings. No. 134,870; Sept. 21; v. 278; p. 529.
Acorn Battery Company, Chicago, Ill. Electric batteries. No. 134,871; Sept. 21; v. 278; p. 529.
Acorn Tire and Rubber Company, Chicago, Ill. Pneumatic tires and tubes. No. 136,733; Nov. 9; v. 280; p. 377.
Ada Milling Company, Ada, Okla. Wheat-flour. No. 137,523; Nov. 30; v. 280; p. 995.
Adam Brothers & Sellers Company, Houston, Tex. Canned vegetables and pork and beans with tomato sauce. No. 137,524; Nov. 30; v. 280; p. 995.
Adams-Bagnall Electric Co., The, Cleveland, Ohio. Electrical apparatus. No. 136,282; Nov. 2; v. 280; p. 177.
Adams, C. F., Company, Erie, Pa., and Chicago, Ill. Electric clothes-washing machines. No. 136,734; Nov. 9; v. 280; p. 377.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Adams, Cushing & Foster, Inc., Boston, Mass. Writing and printing paper and writing-tablets. No. 128,275; Jan. 6; v. 270; p. 177.
Adams, Eva, Sparta, Ill. Hair-tonics and hair-straighteners. No. 131,277; May 11; v. 274; p. 399.
Adams, J. D., & Company, Indianapolis, Ind. Road-graders. No. 130,597; May 4; v. 274; p. 181.
Adams, W. J., & Co., Limited. Manchester, England. Elastic cords, braids, and tapes. No. 135,378; Oct. 12; v. 279; p. 341.
Adams & Westlake Company, The, Chicago, Ill. Electrical apparatus. No. 131,393; May 18; v. 274; p. 601.
Adams & Westlake Company, Chicago, Ill. Lighting and ventilating devices. No. 131,950; June 8; v. 275; p. 413.
Adams & Westlake Company, The, Chicago, Ill. Door- rim, desk, berth, drawer, and sash locks and padlocks. No. 133,201; July 20; v. 276; p. 589.
Adelberg-Feder Stores, Inc., New York, N. Y. Ladies' cloaks, coats, suits, and dresses and children's cloaks and dresses. No. 129,412; Feb. 24; v. 271; p. 677.
Adelberg-Feder Stores, Inc., New York, N. Y. Trousers, coats, vests, overcoats. No. 129,570; Mar. 9; v. 272; p. 359.
Adell, Juan M., Tortosa, Spain. Olive-oil. No. 136,283; Nov. 2; v. 280; p. 177.
Adelmann, Clarence N., Newark, N. J. Garments for women and children. No. 133,557; Aug. 3; v. 277; p. 169.
Ades Products Corporation, Philadelphia, Pa. Food-flavoring extracts. No. 134,333; Aug. 31; v. 277; p. 971.
Adjustable Piston Mfg. Company, Incorporated, St. Paul, Minn. Piston-rings. No. 129,571; Mar. 9; v. 272; p. 359.
Adjustable Sales Corporation, The, Rochester, N. Y. Children's velocipedes. No. 134,872; Sept. 21; v. 278; p. 529.
Adler Co., The, Cleveland, Ohio. Fruit preserves, jams, jelly, &c. No. 136,284; Nov. 2; v. 280; p. 177.
Adler, David, & Sons Co., Milwaukee, Wis. Coats, waistcoats, trousers, and overcoats. No. 138,214; Dec. 21; v. 281; p. 563.
Adler, Morris Company, The, Quincy, Ill. Automobiles. No. 134,873; Sept. 21; v. 278; p. 529.
Adler, Stella, St. Louis, Mo. Dolls. No. 130,088; Apr. 6; v. 273; p. 179.
Adrian Neckwear Co., Portland, Oreg. Neckties. No. 128,589; Jan. 13; v. 270; p. 335.
Advance Automobile Accessories Corp., Chicago, Ill. Publication—viz., a house organ issued monthly. No. 129,572; Mar. 9; v. 272; p. 359.
Advance Malt Products Company, Chicago, Ill. Vegetable product in powdered form used in place of fresh, condensed, or dry milk. No. 129,413; Feb. 24; v. 271; p. 677.
Advance-Rumely Company, Laporte, Ind. Threshing-machines and grain-separators. No. 128,276; Jan 6; v. 270; p. 177.
Adwear Process Sole Leather Machine Company, Philadelphia, Pa. Shoe and boot soles and boots and shoes of processed leather. No. 130,453; Apr. 27; v. 273; p. 801.
Aero Products Company, The, Cleveland, Ohio. Carbureters. No. 134,148; Aug. 17; v. 277; p. 581.
Agra Company, The, Detroit, Mich. Soaps. No. 130,024; Apr. 6; v. 273; p. 179.
Agra Company, The, Detroit, Mich. Talcum and face powders, toilet waters, &c. No. 131,685; May 25; v. 274; p. 829.
Agra Company, Detroit, Mich. Talcums, face-powder, perfumes, &c. No. 137,525; Nov. 30; v. 280; p. 995.
Aicardi, James A., & Sons, Boston, Mass. Prepared food products. No. 131,686; May 25; v. 274; p. 829.
Aidol Medicine Co., New York, N. Y. Liniment for treatment of rheumatism, &c. No. 134,874; Sept. 21; v. 278; p. 529.
Aircraft & Motor Products Co., New York, N. Y. Spark-plugs. No. 133,097; July 13; v. 276; p. 401.
Air-O-Flex Automobile Corporation, Detroit, Mich. Automobiles, automobile-trucks, and suspension-cylinders therefor. Nos. 131,687–8; May 25; v. 274; p. 829.
Air Reduction Company, Incorporated, New York, N. Y. Calcium carbid. No. 128,590; Jan. 13; v. 270; p. 335.
Air-Way Company, The, Toledo, Ohio. Electric vacuum-cleaner. No. 135,576; Oct. 19; v. 279; p. 525.
Akron Oil Refining Company, The, Akron, Ohio. Gasolene. No. 138,412; Dec. 28; v. 281; p. 781.
Akron Spark Plug Co., The, Akron, Ohio. Spark-plugs. No. 136,285; Nov. 2; v. 280; p. 177.
Akerlund & Semmes, Inc., New York, N. Y. Gas-producer apparatus. No. 128,913; Jan. 20; v. 270; p. 471.
Aktiebolaget Arca Regulatorer, Stockholm, Sweden. Hardware and plumbing and steam-fitting supplies. No. 133,202; July 20; v. 276; p. 589.
Aktiebolaget Gyro, Stockholm, Sweden. Machine-tools, transmission-gears, and parts thereof. No. 131,474; May 18; v. 274; p. 603.
Aktiebolaget Ingeniorsfirman, G. A. Lindstedt & Co., Stockholm, Sweden. Cutlery, machinery, and tools. No. 134,149; Aug. 17; v. 277; p. 581.
Aktiebolaget Ingeniörsfirman G. A. Lindstedt & Co., Stockholm, Sweden. Plumbing and steam-fitting supplies, &c. No. 136,286; Nov. 2; v. 280; p. 177.
Aktiebolaget Spritmotorer, Uppsala, Sweden. Internal-combustion engines and parts thereof. No. 136,735; Nov. 9; v. 280; p. 377.
Aladdin Products Company. (See Robinson, Clinton S., assignor.)
Aladdin Products Company, Chicago, Ill. Hat-dye. No. 136,288; Nov. 2; v. 280; p. 177.
Alan Wood Iron & Steel Company, Philadelphia, Pa. Iron and steel plates, billets, slabs. No. 129,111; Jan. 27; v. 270; p. 613.
Alaska Bakonized Fish Co., Juneau, Alaska. Canned fish. No. 130,253; Apr. 20; v. 273; p. 619.
Alaska-California Fish Pkg. Co., Monterey, Calif. Cured, salted, and smoked fish, sardine paste, &c. No. 137,526; Nov. 30; v. 280; p. 995.
Alaska Refrigerator Company, Muskegon Heights, Mich. Refrigerators. No. 128,277; Jan. 6; v. 270; p. 177.
Alaska Refrigerator Co., The, Muskegon, Mich. Refrigerators. Nos. 129,972–3; Mar. 16; v. 272; p. 539.
Alaska Refrigerator Company, The, Muskegon, Mich. Refrigerators. No. 135,577; Oct. 19; v. 279; p. 525.
Alaska Salmon Co., San Francisco, Calif. Canned, salted, and pickled fish. No. 134,208; Aug. 24; v. 277; p. 777.
Alaska Salmon & Herring Packers, Inc., Seattle, Wash. Canned salmon and herring. No. 130,598; May 4; v. 274; p. 181.
Alban, John A., & Co., Inc., New York. N. Y. Olive-oil. No. 128,591; Jan. 13; v. 270; p. 335.
Albany Chemical Company, Albany, N. Y. Aspirin and photo-engraving chemicals. No. 131,392; May 18; v. 274; p. 601.
Albany Chemical Company, Albany, N. Y. Fluid for priming and starting internal-combustion engines. No. 131,394; May 18; v. 274; p. 601.
Albany Grocery Co., Albany, Ga. Self-rising wheat-flour. No. 133,890; Aug. 10; v. 277; p. 385.
Albany Perforated Wrapping Paper Company, Albany, N. Y. Dispensing-cabinets for paper towels or toilet-papers. No. 133,558; Aug. 3; v. 277; p. 169.
Albany Shoe Repairing Company, Boston, Mass. Dyes for leather goods. No. 128,278; Jan. 6; v. 270; p. 177.
Albaugh-Dover Co., Chicago, Ill., assignor to Square Turn Tractor Co., Norfolk, Nebr. Tractors. No. 128,279; Jan. 6; v. 270; p. 177.
Albaugh-Dover Company, Chicago, Ill. Laundry-washing machines. No. 133,560; Aug. 3; v. 277; p. 169.
Albemarle Paper Mfg. Co., Richmond, Va. Blotting-paper. No. 128,592; Jan. 13; v. 270; p. 335.
Albers Bros. Milling Company, San Francisco, Calif. Stock feed. No. 138,413; Dec. 28; v. 281; p. 781.
Albert Lea Sprayer Company, Albert Lea, Minn. Sprayers and parts thereof. No. 135,817; Oct. 19; v. 279; p. 532.
Albertson & Company, Sioux City, Iowa. Valve-grinders, valve-seat reamers, &c. No. 130,599; May 4; v. 274; p. 181.
Albrecht, Elizabeth J., Prosser, Wash. Salve for treatment of certain named diseases and affections. No. 132,279; June 22; v. 275; p. 815.
Albright, Chester W., Indianapolis, Ind. Saponaceous preparation for the complexion in powdered form. No. 131,951; June 8; v. 275; p. 413.
Alco Textile Products Co. Inc., Albany, N. Y. Handkerchiefs. No. 130,252; Apr. 20; v. 273; p. 619.
Aldrich Publishing Company, New York, N. Y. Weekly publication. No. 133,348; July 27; v. 276; p. 767.
Alexander Drug Co., Oklahoma, Okla. Medicine for colds, croup, &c. No. 128,280; Jan. 6; v. 270; p. 177.
Alexander, Frank B., New York, N. Y. Optical lenses. No. 130,254; Apr. 20; v. 273; p. 619.
Alexander-Holden Paper Co. Inc., New York, N. Y. Cover-paper. No. 120,255; Apr. 20; v. 273; p. 619.
Alexander & Irwin Co. Inc. (See Alexander & Irwin Co., assignor.)
Alexander & Irwin Co., Philadelphia, Pa., assignor to Alexander & Irwin Co. Incorporated, New York, N. Y. Hosiery. No. 134,875; Sept. 21; v. 278; p. 529.
Alexander, J., Mfg. Co., The, New York, N. Y. Rear-view mirrors for automobiles. No. 136,289; Nov. 2; v. 280; p. 177.
Alexanian, John G., Fort Wayne, Ind. Rug-cleaning compound. No. 134,334; Aug. 31; v. 277; p. 971.
Alfocorn Milling Company, St. Louis, Mo. Stock feed. Nos. 135,884–8; Oct. 26; v. 279; p. 715.
Alfocorn Milling Company, St. Louis, Mo. Stock feed. Nos. 136,290–1; Nov. 2; v. 280; p. 177.
Alford, Henry N., Atlanta, Ga. Medicine for colds, influenza, &c. No. 128,915; Jan. 20; v. 270; p. 471.
Alford, W. M., & Sons, New York, N. Y. Broad silks in the piece. No. 133,559; Aug. 3; v. 277; p. 169.
Alforth, Alma R., Chicago, Ill. Candies. No. 130,600; May 4; v. 274; p. 181.
Alfred Brothers, Whitinsville, Mass. Medicine for colds, asthma, &c. No. 128,914; Jan. 20; v. 270; p. 471.
Allaire, Woodward & Co., Peoria, Ill. Antiseptic healing-powders. No. 138,414; Dec. 28; v. 281; p. 781.
All-American Truck Company, Chicago, Ill. Motor-trucks. No. 134,564; Sept. 14; v. 278; p. 353.
Allan, Joseph W., New York, N. Y. Motor-trucks. No. 128,281; Jan. 6; v. 270; p. 177.
Allan, Joseph W., New York, N. Y. Motor-trucks. No. 129,414; Feb. 24; v. 271; p. 677.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Allcock, S., & Co. Limited, Redditch, England. Sproat-hooks and other fishhooks. No. 130,026; Apr. 6; v. 273; p. 179.
Allen, George M., New York, N. Y. Syrup made from corn or corn and cane, used for food purposes. No. 132,604; June 29; v. 275; p. 1013.
Allen & Hanburys, Ltd., London, England. Pepton for bacteriological use. No. 128,593; Jan. 13; v. 270; p. 335.
Allen Mica Co., New York, N. Y. Phonograph-diaphragms. No. 135,189; Sept. 28; v. 278; p. 701.
Allen, Rena, Daytona, Fla. Medicine for ground-itch on children and sorehead on chickens. No. 134,563; Sept. 14; v. 278; p. 353.
Allen, William W., Dobbs Ferry, N. Y. Clothes-washing machines. No. 135,578; Oct. 19; v. 279; p. 525.
Allied Machinery Company of America, New York, N. Y. Metal hand-buckets. No. 132,078; June 15; v. 275; p. 615.
Allied Machinery Company of America, New York, N. Y. Measuring and scientific appliances. No. 132,280; June 22; v. 275; p. 815.
Allied Machinery Company of America, New York, N. Y. Acetylene cutting and welding machines, acetylene-lighting plants, and steam-boilers. No. 132,872; July 6; v. 276; p. 199.
Allied Machinery Company of America, New York, N. Y. Isolated electric-lighting plants, electric-storage-battery locomotives, &c. No. 132,873; July 6; v. 276; p. 199.
Allied Machinery Company of America, New York, N. Y. Wood, fiber, and canvas hand-buckets and bins. No. 134,876; Sept. 21; v. 278; p. 529.
Allied Machinery Company of America, New York, N. Y. Steel towers for general use, concrete-forms, and form-clamps. No. 135,379; Oct. 12; v. 279; p. 341.
Allied Machinery Company of America, New York, N. Y. Vehicles for industrial purposes. No. 135,579; Oct. 19; v. 279; p. 525.
Allied Machinery Company of America, New York, N. Y. Engines, locomotives, tractors, &c. No. 135,889; Oct. 26; v. 279; p. 715.
Alling and Cory Co., Rochester, N. Y. Wrapping-paper. No. 131,104; May 4; v. 274; p. 193.
Alling and Cory Co., The, Rochester, N. Y. Wrapping-paper. No. 137,923; Dec. 14; v. 281; p. 395.
Alling & Cory Company, The, Rochester, N. Y. Printing and writing paper. No. 128,282; Jan. 6; v. 270; p 177.
Alling, Leon B., Plainfield, N. J. Hose. No. 130,801; May 4; v. 274; p. 181.
Alling, Leon B., Plainfield, N. J. Hose. No. 131,013; May 4; v. 274; p. 193.
Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Comminuting machinery. No. 130,602; May 4; v. 274; p. 181.
All-Qual-Sweets Co. Inc., Chicago, Ill. Confectionery—namely, chocolates. No. 131,891; May 25; v. 274; p. 835.
All-Qual-Sweets Co. Inc., Chicago, Ill. Confectionery—namely, chocolates. No. 131,952; June 8; v. 275; p. 413.
All-Qual-Sweets Co., Chicago, Ill. Chocolates. No. 134,335; Aug. 31; v. 277; p. 971.
Almetal Manufacturing Company, The, Maplewood, Mo. Laundry-washing machine. No. 138,532; Dec. 28; v. 281; p. 785.
Alpern and Blachschlager Chemical Company, Cincinnati, Ohio. Medicine for cramp, diarrhea, and kindred diseases. No. 132,281; June 22; v. 275; p. 815.
Alpine Co., New York, N. Y. Carbonated non-alcoholic maltless non-cereal beverage. No. 131,690; May 25; v. 274; p. 829.
Alpine Co., Inc., New York, N. Y. Ginger-ale, cream-soda, sarsaparilla, and other fruit-flavored non-alcoholic non-cereal beverages. No. 131,689; May 25; v. 274; p. 829.
Alpine Evaporated Cream Co., San Francisco, Calif. Canned evaporated milk. No. 134,336; Aug. 31; v. 277; p. 971.
Alsen Cement Co. of America, Inc., New York, N. Y. Portland cement. No. 132,605; June 29; v. 275; p. 1013.
Alsteel Manufacturing Co., Battle Creek, Mich. Combination automobile-tool. No. 130,454; Apr. 27; v. 273; p. 801.
Alston, William H., Birmingham, Ala. Quarterly magazine. No. 138,215; Dec. 21; v. 281; p. 563.
Alter, Frank W., Chicago, Ill. Timepieces. Nos. 132,874–5; July 6; v. 276; p. 199.
Alter, Frank W., Chicago, Ill. Timepieces. No. 133,098; July 13; v. 276; p. 401.
Alter, Frank W., Chicago, Ill. Timepieces. No. 135,580; Oct. 19; v. 279; p. 525.
Althoff, L. A., Mfg. Co., The, Chicago, Ill. Gas stoves, ovens, and plates. No. 131,953; June 8; v. 275; p. 413.
Altman, B. & Co., New York, N. Y. Soap. No. 134,565; Sept. 14; v. 278; p. 353.
Altman, B., & Co., New York, N. Y. Cologne. No. 135,890; Oct. 26; v. 279; p. 715.
Altman, B., & Co., New York, N. Y. Soap. No. 137,757; Dec. 7; v. 281; p. 195.
Altman, B., & Co., New York, N. Y. Tooth-wash. No. 138,415; Dec. 28; v. 281; p. 781.
Aluminum Brazing Solder Company, Philadelphia, Pa. Metallic fillers. No. 137,012; Nov. 16; v. 280; p. 583.
Amalgamated Paint Co., New York, N. Y. Anticorrosive, antifouling, and mixed paints. No. 131,691; May 25; v. 274; p. 829.
Amalgamated Trading Company, San Francisco, Calif. Canned fruits. No. 132,282; June 22; v. 275; p. 815.
Ambler Toy Manufacturing Company Incorporated, Ambler, Pa. Card games, game-boards, toy vehicles, &c. No. 136,736; Nov. 9; v. 280; p. 377.
Ambridge Knitting Co., Ambridge, Pa. Hosiery. No. 129,112; Jan. 27; v. 270; p. 613.
Amendt Milling Company, Monroe and Trenton, Mich., and Delta, Ohio. Wheat-flour. No. 133,891; Aug. 10; v. 277; p. 385.
Amer, Alfred S., & Company, Limited, New Orleans, La. Candy. No. 136,292; Nov. 2; v. 280; p. 177.
Amer Knitting Mills, Inc., New York, N. Y. Sweaters, bathing-suits. No. 133,203; July 20; v. 276; p. 589.
American Abrasive Metals Co., New York, N. Y. Treads and panels for stairways, floors, &c. No. 128,594; Jan. 13; v. 270; p. 335.
American Abrasive Company, Westfield, Mass. Abrasives. No. 130,603; May 4; v. 274; p. 181.
American Abrasive Company, Westfield, Mass. Corundum in bulk. No. 134,471; Sept. 7; v. 278; p. 159.
American Aggregate Company, Kansas City, Mo. Aggregate for use in preparing concrete. No. 135,380; Oct. 12; v. 279; p. 341.
American Agricultural Chemical Co., New York, N. Y. Insecticides. No. 129,415; Feb. 24; v. 271; p. 677.
American Agricultural Chemical Co., New York, N. Y. Guano. No. 131,692; May 25; v. 274; p. 829.
American Agricultural Chemical Company, The, New York, N. Y. Fertilizer. No. 132,876; July 6; v. 276; p. 199.
American Agricultural Chemical Company, The, New York, N. Y. Fertilizer. No. 137,527; Nov. 30; v. 280; p. 995.
American Aluminum Company, St. Louis, Mo. Aluminum household and cooking utensils. No. 129,257; Feb. 10; v. 271; p. 355.
American Aniline Products, Inc., New York, N. Y. Dyes. No. 131,395; May 18; v. 274; p. 601.
American Association of Engineers, Chicago, Ill. Monthly periodical. No. 135,891; Oct. 26; v. 279; p. 715.
American Balsa Co., Inc., New York, N. Y. Structural material made of wood for insulation against heat, cold, and sound. Nos. 130,144–5; Apr. 13; v. 273; p. 401.
American Beauty Dress Mfg. Co., Inc., The, St. Louis, Mo. Ladies', misses', and children's dresses. No. 136,293; Nov. 2; v. 280; p. 177.
American Bleached Goods Company, New York, N. Y., Chicago, Ill., and St. Louis, Mo. Cotton goods in the piece. No. 129,573; Mar. 9; v. 272; p. 359.
American Bosch Magneto Corporation, Springfield, Mass. Ignition and starting apparatus for internal-combustion engines, &c. No. 129,974; Mar. 16; v. 272; p. 539.
American Bosch Magneto Corporation, Springfield, Mass. Magneto-electric generators and parts thereof. No. 131,015; May 4; v. 274; p. 193.
American Brewing Co., The, Pekin, Ill. Non-alcoholic, non-cereal beverage. No. 132,079; June 15; v. 275; p. 615.
American Bureau of Engineering, Inc., Chicago, Ill. Voltmeters, armature-testers, &c. No. 130,604; May 4, v. 274; p. 181.
American Burtonizing Company, New York, N. Y. Material used as a substitute for malt in making beverages. No. 137,528; Nov. 30; v. 280; p. 995.
American Burtonizing Company and Wallerstein Laboratories New York, N. Y. Non-alcoholic beverages. No. 137,086; Nov. 23; v. 280; p. 789.
American Burtonizing Company and Wallerstein Laboratories, New York, N. Y. Cereal extracts used as a substitute for malt. No. 137,529; Nov. 30; v. 280; p. 995.
American Cabinet Manufacturing Corporation, Norfolk, Va., assignor to Leviola Talking Machine Sales Corporation. Phonographs. No. 129,574; Mar. 9; v. 272; p. 359.
American Cabinet Manufacturing Corporation, Newport News, Va. Phonographs. No. 136,294; Nov. 2; v. 280; p. 177.
American Calculating Machine Co., The, New York, N. Y. Calculating-machines. No. 134,150; Aug. 17; v. 277; p. 581.
American Candy Company, Milwaukee, Wis. Candy. No. 132,877; July 6; v. 276; p. 199.
American Candy Manufacturing Co., Selma, Ala. Candy. No. 134,472; Sept. 7; v. 278; p. 159.
American Carpenter and Builder Co., Chicago, Ill. Monthly magazine. No. 134,473; Sept. 7; v. 278; p. 159.
American Chicle Company, Jersey City, N. J., and New York, N. Y. Mint candy in tablet form. No. 137,530; Nov. 30; v. 280; p. 995.
American Code Company Inc., New York, N. Y. Code-books. No. 136,737; Nov. 9; v. 280; p. 377.
American Colortype Company, New York, N. Y. Printed multicolor etchings. No. 136,295; Nov. 2; v. 280; p. 177.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

American Commercial Car Co., Detroit, Mich. Automobile-trucks. No. 131,016; May 4; v. 274; p. 193.
American Confectionery Syndicate, Inc., New York, N. Y. Sugar tablets and lozenges flavored with essential oils and fruit-juices. No. 132,283; June 22; v. 275; p. 815.
American Cotton Oil Company, The, Union township, Hudson county, N. J., and New York, N. Y. Edible vegetable-oil. No. 131,396; May 18; v. 274; p. 601.
American Device Manufacturing Company, St. Louis, Mo. Vacuum suction-pumps. No. 134,151; Aug. 17; v. 277; p. 581.
American "E" Products Company, Minneapolis, Minn. Soups. Nos. 134,209–10; Aug. 24; v. 277; p. 777.
American Electric Co., Chicago, Ill. Electric horns. No. 136,296; Nov. 2; v. 280; p. 177.
American Electric Co., Chicago, Ill. Mechanically-operated signal-horns. Nos. 137,089–00; Nov. 23; v. 280; p. 789.
American Electric Co., Chicago, Ill. Electric vacuum-cleaners. No. 137,758; Dec. 7; v. 281; p. 195.
American Electric Company, Chicago, Ill. Electric motors. No. 137,087; Nov. 23; v. 280; p. 789.
American Electrical Heater Co., Detroit, Mich. Electrical heating appliances and parts. No. 137,088; Nov. 23; v. 280; p. 789.
American Electrical Works, Phillipsdale, R. I. Wires, cables, and cordage used for electrical purposes. No. 137,929; Dec. 14; v. 281; p. 395.
American Enamel Company, Providence, R. I. Enameled handles, knobs, and pulls. No. 133,561; Aug. 3; v. 277; p. 169.
American Extract & Supply Co., New York, N. Y. Non-alcoholic non-cereal maltless beverages. No. 133,562; Aug. 3; v. 277; p. 169.
American Factories, Limited, Honolulu, Hawaii. Coffee, canned fruits, lemons. No. 128,595; Jan. 13; v. 270; p. 335.
American Factories, Limited, Honolulu, Hawaii. Canned salmon and vegetables, &c. No. 128,596; Jan. 13; v. 270; p. 335.
American Feather and Pillow Company, Nashville, Tenn. Feather beds and pillows. No. 129,975; Mar. 16; v. 272; p. 539.
American Fire Prevention Bureau, New York, N. Y. Thermostatically-operated electric switches. No. 131,397; May 18; v. 274; p. 601.
American Flour Corporation, New York, N. Y. Wheat-flour. No. 128,916; Jan. 20; v. 270; p. 471.
American Fruit Grower Co. Inc., Chicago, Ill. Monthly publication. No. 129,575; Mar. 9; v. 272; p. 359.
American Grinder Manufacturing Company, Milwaukee, Wis. Socket-wrenches. No. 128,597; Jan. 13; v. 270; p. 335.
American Hard Rubber Company, Hempstead, N. Y. Combs and buttons. No. 130,605; May 4; v. 274; p. 181.
American Hard Rubber Company, Hempstead and New York, N. Y. Combs for dressing, ornamenting, and cleaning the hair and buttons for wearing-apparel. Nos. 131,017–18; May 4; v. 274; p. 193.
American Hard Rubber Company, Hempstead and New York, N. Y. Electrical apparatus, machines, and supplies. No. 133,892; Aug. 10; v. 277; p. 385.
American Hand Rubber Company, Hempstead and New York, N. Y. Hard-rubber pipe-bits, and cigar and cigarette-holders. No. 134,877 Sept. 21; v. 278; p. 529.
American Hard Rubber Company, Hempstead and New York, N. Y. Hard-rubber bowling and roque balls. No. 135,381; Oct. 12; v. 279; p. 341.
American Hard Rubber Company, Hempstead, N. Y. Hard-rubbber goods. No. 136,738; Nov. 9; v. 280; p. 377.
American Hard Rubber Company, Hempstead and New York, N. Y. Hard-rubber rods, sheets, and tubes. No. 137,091; Nov. 23; v. 280; p. 789.
American Hard Rubber Company, Hempstead and New York, N. Y. Hard-rubber knife, fork, and razor handles and pumps. No. 137,531; Nov. 30; v. 280; p. 995.
American Hard Rubber Company, Hemstead, and New York, N. Y. Hard-rubber pipes, elbows, T's, &c. No. 137,924; Dec. 14; v. 281; p. 395.
American Harmonica & Accordion Manufacturing Co., New York, N. Y. Harmonicas. No. 128,917; Jan. 20; v. 270; p. 471.
American Import Co., The, San Francisco, Calif. Clothing. No. 130,606; May 4; v. 274; p. 181.
American Importing Co., New York, N. Y. Ticking. No. 135,382; Oct. 12; v. 279; p. 341.
American Industries, Incorporated, Washington, D. C. Monthly periodical publication. No. 129,576. Mar. 9; v. 272; p. 359.
American Ink Company, Seattle, Wash. Writing-inks. No. 134,566; Sept. 14; v. 278; p. 353.
American Iron Products Company, Inc., New York, N. Y. Metals and metal castings and forgings. No. 133,204; July 20; v. 276; p. 589.
American Iron Products Company, Inc., New York, N. Y. Steel beams and channels. No. 135,581; Oct. 19; v. 279; p. 525.
American Iron Products Company Inc., New York, N. Y. Nails, spikes, bolts, nuts, rivets, and steel and iron pipes. No. 135,892; Oct. 26; v. 279; p. 715.
American Italian Trading Company, McDonnell, Truda & Berlingieri, New York, N. Y. Boots and shoes of leather, leather and canvas, canvas with rubber soles, and rubbers. No. 134,562; Sept. 7; v. 278; p. 161.
American Laboratories Co., The, Cincinnati, Ohio. Preparation for colds, influenza, sciatica, ear and tooth ache, &c. No. 135,893; Oct. 26; v. 279; p. 715.
American Laboratories, Indianapolis, Ind. Pharmaceutical preparation for colds and congestions. No. 128,918; Jan. 20; v. 270; p. 471.
American Laboratories Incorporated, Richmond, Va. Hair-dressing preparation. No. 128,598; Jan. 13; v. 270; p. 335.
American Laboratories Incorporated, Richmond, Va. Antiseptic, disinfectant, &c. No. 128,599; Jan. 13; v. 270; p. 335.
American Laboratories Incorporated, Richmond, Va. Food-flavoring extracts. No. 128,600; Jan. 13; v. 270; p. 335.
American Laboratories Incorporated, Richmond, Va. Food-flavoring extracts. No. 129,320; Feb. 17; v. 271; p. 507.
American Laboratories, Incorporated, Richmond, Va. Non-alcoholic beverages. No. 133,563; Aug. 3; v. 277; p. 169.
American Laboratories Incorporated, Richmond, Va. Cough-syrup preparation. No. 134,878; Sept. 21; v. 278; p. 529.
American Lady Corset Company, Detroit, Mich. Corsets. No. 131,019; May 4; v. 274; p. 193.
American La France Fire Engine Co., Inc., Elmira, N. Y. Clothing. No. 130,607; May 4; v. 274; p. 181.
American La France Fire Engine Co., Inc., Elmira, N. Y. Fire-engines, water-towers, &c. No. 132,284; June 22; v. 275; p. 815.
American La France Fire Engine Co., Inc., Elmira, N. Y. Respirators, respirator masks and hoods, emergency-hoods, &c. No. 134,567; Sept. 14; v. 278; p. 353.
American Lead Pencil Company, New York, N. Y. Lead-pencils. No. 128,601; Jan. 13; v. 270; p. 335.
American Lead Pencil Company, New York, N. Y. Lead-pencils, lead-pencil holders, and penholders. Nos. 129,577–8; Mar. 9; v. 272; p. 359.
American Lead Pencil Company, New York, N. Y. Lead-pencils. Nos. 135,582–5; Oct. 19; v. 279; p. 525.
American Lead Pencil Company, New York, N. Y. Lead-pencils. No. 135,894; Oct. 26; v. 279; p. 715.
American Lead Pencil Company, New York, N. Y. Lead-pencils, copying and mechanical pencils. No. 136,297; Nov. 2; v. 280; p. 177.
American Lead Pencil Company, New York, N. Y. Lead, copying, and mechanical pencils. No. 137,532; Nov. 30; v. 280; p. 995.
American Lead Pencil Company, New York, N. Y. Pencil-sharpeners. No. 137,930; Dec. 14; v. 281; p. 395.
American Limestone Company, Mascot, Tenn. Pulverized limestone. No. 130,027; Apr. 6; v. 273; p. 179.
American Locomotive Company, Schenectady, and New York, N. Y. Steam-engine reverse-gear. No. 131,278; May 11; v. 274; p. 399.
American Magnesia Products Co., Chicago, Ill. Composition for use as stucco. No. 132,080; June 15; v. 275; p. 615.
American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y. Rope, cord, and twine of vegetable fiber. No. 130,608; May 4; v. 274; p. 181.
American Metal Company, Limited, The, New York, N. Y. White arsenic. No. 128,602; Jan. 13; v. 270; p. 335.
American Metal Parts Corporation, Boston, Mass. Piston-rings. No. 137,925; Dec. 14; v. 281; p. 395.
American Metals Corporation, Indianapolis, Ind. Automobile-radiator shutters. No. 136,298; Nov. 2; v. 280; p. 177.
American Mexican Packing Co., Wilmington, Calif. Canned sardines. No. 130,256; Apr. 20; v. 273; p. 619.
American-Mexican Packing Company, Wilmington, Calif. Canned fish. No. 136,299; Nov. 2; v. 280; p. 177.
American Musical Supply Co., Jersey City, N. J. Tuning-pins. No. 132,606; June 29; v. 275; p. 1013.
American Mustard Co. Inc., New York, N. Y. Mustard. No. 128,603; Jan. 13; v. 270; p. 335.
American Mutual Seed Co., Chicago, Ill. Dairy and stock feed. No. 137,013; Nov. 16; v. 280; p. 583.
American Mutual Seed Company, Chicago, Ill. Seeds. No. 129,113; Jan. 27; v. 270; p. 613.
American-National Shoe & Leather Corp., New York, N. Y. Rubber and leather boots and shoes. Nos. 129,321–2; Feb. 17; v. 271; p. 507.
American-National Shoe & Leather Corp., New York, N. Y. Hides and leather. Nos. 130,146–7; Apr. 13; v. 273; p. 401.
American-National Shoe & Leather Corporation, New York, N. Y. Rubber boots and shoes and boots and shoes made wholly or in part of leather. No. 133,564; Aug. 3; v. 277; p. 169.
American National Shoe and Leather Corp., New York, N. Y. Hides and leather. No. 137,926; Dec. 14; v. 281; p. 395.
American Non-Ferrous Metals Corporation, Chester, Pa. Bearing metal. No. 130,609; May 4; v. 274; p. 181.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

American Novelty Wash Suit Co., Inc., New York, N. Y. Boys', youths', and children's outer suits, coats, and pants. No. 132,285; June 22; v. 275; p. 815.
American Novelty Wash Suit Co., Inc., New York, N. Y. Boys' outer clothing. No. 133,205; July 20; v. 276; p. 589.
American Nut Butter Company, Providence, R. I. Oleomargarin. No. 133,893; Aug. 10; v. 277; p. 385.
American Oil Company, The, Providence, R. I. Oil used in the treatment of woolen fabrics. No. 134,879; Sept. 21; v. 278; p. 529.
American Optical Company, Southbridge, Mass. Ophthalmic lenses. No. 130,610; May 4; v. 274; p. 181.
American Optical Company, Southbridge, Mass. Optical goods and parts thereof and measuring appliances. No. 131,693; May 25; v. 274; p. 829.
American Optical Company, Southbridge, Mass. Opthalmic lenses and lenses for all kinds of optical and scientific instruments. Nos. 133,206–7; July 20; v. 276; p. 589.
American Optical Company, Southbridge, Mass. Opthalmic lenses and lenses for optical instruments and appliances. No. 133,208; July 20; v. 276; p. 589.
American Oriental Sales Corporation, Seattle, Wash. Canned fish. No. 137,092; Nov. 23; v. 280; p. 789.
American Overgaiter Co., Baltimore, Md. Overgaiters. No. 130,611; May 4; v. 274; p. 181.
American Oxidaze Company, Worcester, Mass. Medicine for diseases of the respiratory organs. No. 138,168; Dec. 14; v. 281; p. 403.
American Paper Exports, Inc., New York, N. Y. Writing, printing, and wrapping papers and mailing-envelops. No. 131,398; May 18; v. 274; p. 601.
American Papeterie Company, Albany, N. Y. Mailing and correspondence envelops, writing papers and tablets. No. 132,607; June 29; v. 275; p. 1013.
American Piano Company, New York, N. Y. Pianos. No. 131,399; May 18; v. 274; p. 601.
American Pin Company, The, Waterbury, Conn. Snap-fasteners. No. 135,383; Oct. 12; v. 279; p. 341.
American Pop Corn Works, Inc., Boston, Mass. Popcorn confections. No. 131,020; May 4; v. 274; p. 193.
American Povar Corporation, New York, N. Y. Furniture and automobile polish. No. 137,533; Nov. 30; v. 280; p. 995.
American Pozzolana Company, Indianapolis, Ind. Cement, stucco, and plaster. No. 130,612; May 4; v. 274; p. 181.
American Products Co., Omaha, Nebr. Foods and ingredients of foods. No. 136,613; May 4; v. 274; p. 181.
American Products Corporation, Boston, Mass. Lubricating-greases. No. 135,895; Oct. 26; v. 279; p. 715.
American Pure Food Process Co., Baltimore, Md. Jar-caps. No. 130,036; Apr. 6; v. 273; p. 179.
American Pure Food Process Co., The, Baltimore, Md. Glass jars. No. 130,257; Apr. 20; v. 273; p. 619.
American Pure Food Process Co., Baltimore, Md. Jar-capping machines. No. 131,400; May 18; v. 274; p. 601.
American Renoleo Company, York, Pa. Food-flavoring extracts. No. 132,608; June 29; v. 275; p. 1013.
American Road Machinery Company, Inc., Kennett Square, Pa. Wheel-mounted road-grading machines. No. 136,739; Nov. 9; v. 280; p. 377.
American Rubber and Tire Co., Akron, Ohio. Certain named tires, tubes, &c. No. 129,579; Mar. 9; v. 272; p. 359.
American Safetee Soap Corporation (now by change of name Safetee Soap Corporation), Brooklyn, N. Y. Soap, shaving sticks, cream, and powder. No. 134,880; Sept. 21; v. 278; p. 529.
American Safety Razor Co., Inc., Brooklyn, N. Y. Safety-razors, &c. No. 130,008; Mar. 23; v. 272; p. 731.
American Safety Razor Corporation, Brooklyn, N. Y. Shaving-brushes. No. 136,740; Nov. 9; v. 280; p. 377.
American Safety Razor Corporation, Brooklyn, N. Y. Razors, safety-razors, and safety-razor blades. No. 137,534; Nov. 30; v. 280; p. 995.
American Saw Mill Machinery Company. Hackettstown, N. J., and New York, N. Y. Bolting-machines or short-log saws. No. 135,384; Oct. 12; v. 279; p. 341.
American Seeding-Machine Company, The, Springfield, Ohio. Grain-drill, combined grain-drills and fertilizer-sowers, and broadcast fertilizer-sowers. No. 134,152; Aug. 17; v. 277; p. 581.
American Shirt Company, Inc., New York, N. Y. Garments. No. 138,216; Dec. 21; v. 281; p. 563.
American Speed-O-Feeder Company, Akron, Ohio. Device to be used in connection with feeding envelops to type-writing-machines. No. 136,741; Nov. 9; v. 280; p. 377.
American Spike Company Incorporated, New York, N. Y. Railroad-spikes. No. 137,759; Dec. 7; v. 281; p. 195.
American Standard Food Assn., Milwaukee, Wis. Coffee. No. 128,919; Jan. 20; v. 270; p. 471.
American Steel Export Company, New York, N. Y. Iron, steel, and sheet-metal products and forgings. No. 129,114; Jan. 27; v. 270; p. 613.
American Steel Export Company, New York, N. Y. Machinery and tools and parts thereof. No. 129,115; Jan. 27; v. 270; p. 613.
American Steel Export Company, New York, N. Y. Wheels, barges, tramways, &c. No. 129,258; Feb. 10; v. 271; p. 355.
American Steel Export Company, New York, N. Y. Steam and hot-water boilers, radiators, &c. No. 129,259; Feb. 10; v. 271; p. 355.
American Steel Export Company, New York, N. Y. Metal bridges, wooden ties, metal telegraph and telephone poles and parts, &c. No. 130,028; Apr. 6; v. 273; p. 179.
American Steel Export Company, New York, N. Y. Electrical apparatus and supplies. No. 130,614; May 4; v. 274; p. 181.
American Steel Export Company, New York, N. Y. Cordage. No. 131,892; May 25; v. 274; p. 835.
American Steel Foundries, Chicago, Ill. Monthly publication. No. 136,800; Nov. 2; v. 280; p. 177.
American Steel Foundries, Chicago, Ill. Side frames, couplers, draft-gears, &c. No. 137,535; Nov. 30; v. 280; p. 995.
American Steel and Wire Company of New Jersey, Hoboken, N. J. Helical wire door-springs. No. 130,456; Apr. 27; v. 273; p. 801.
American Steel & Wire Company of New Jersey, Cleveland, Ohio. Oval fence-wire and wire fencing. No. 130,457; Apr. 27; v. 273; p. 801.
American Stores Company, Philadelphia, Pa. Ginger-ale, sarsaparilla, and root-beer. No. 131,401; May 18; v. 274; p. 601.
American Stores Company, Philadelphia, Pa. Ginger-ale, sarsaparilla, and root-beer. No. 135,586; Oct. 19; v. 279; p. 525.
American Stove Company, St. Louis, Mo. Gas, vapor, and oil stoves and heaters. No. 137,907; Dec. 7; v. 281; p. 200.
American Sugar Refining Company, The, Jersey City, N. J., and New York, N. Y. Sugar for use as a food. No. 131,021; May 4; v. 274; p. 193.
American-Swiss Watch Co., Inc., Peekskill, N. Y. Watches, watch movements, watchcases, and parts thereof. No. 134,568; Sept. 14; v. 278; p. 353.
American Tap and Die Co., Greenfield, Mass. Metal-working tools. No. 136,301; Nov. 2; v. 280; p. 177.
American Tap and Die Co., Greenfield, Mass. Cleavers and steels and knives. No. 136,742; Nov. 9; v. 280; p. 377.
American Textile Banding Company, Philadelphia, Pa. Cotton webbing. No. 131,930; June 1; v. 275; p. 199.
American Textile Products Company, Rochester, N. Y. Garters and hose-supporters. No. 136,302; Nov. 2; v. 280; p. 177.
American Thermophone Company, Boston, Mass. Telephones and parts thereof. No. 134,881; Sept. 21; v. 278; p. 529.
American Tobacco Company, The, New York, N. Y. Cigarettes. No. 128,284; Jan. 6; v. 270; p. 177.
American Tobacco Company, The, New York, N. Y. Cigarettes. No. 128,920; Jan. 20; v. 270; p. 471.
American Tobacco Co., New York, N. Y. Cigarettes and tobacco. No. 128,921; Jan. 20; v. 270; p. 471.
American Tobacco Company, New York, N. Y. Cigarettes, cigars, smoking and chewing tobacco. No. 130,029; Apr. 6; v. 273; p. 179.
American Tobacco Company, New York, N. Y. Smoking and chewing tobacco. No. 130,030; Apr. 6; v. 273; p. 179.
American Tobacco Company, New York, N. Y. Smoking-tobacco and cigarettes. No. 130,031; Apr. 6; v. 273; p. 179.
American Tobacco Company, New York, N. Y. Smoking and chewing tobacco and cigarettes. Nos. 130,032–3; Apr. 6; v. 273; p. 179.
American Tobacco Company, New York, N. Y. Smoking and chewing tobacco. No. 130,034; Apr. 6; v. 273; p. 179.
American Tobacco Company, New York, N. Y. Cigarettes and tobacco. No. 130,035; Apr. 6; v. 273; p. 179.
American Tobacco Company, The, New York, N. Y. Smoking and chewing tobacco. Nos. 130,615–16; May 4; v. 274; p. 181.
American Tobacco Company, The, New York, N. Y. Smoking and chewing tobacco and cigarettes. No. 130,617; May 4; v. 274; p. 181.
American Tobacco Company, New York, N. Y. Smoking and chewing tobacco and cigarettes. No. 133,349; July 27; v. 276; p. 767.
American Tobacco Company, The, New York, N. Y. Smoking and chewing tobacco and cigarettes. No. 133,565; Aug. 3; v. 277; p. 169.
American Tobacco Company, The, New York, N. Y. Smoking and chewing tobacco. No. 135,587; Oct. 19; v. 279; p. 525.
American Tobacco Company, The, New York, N. Y. Cigarettes, smoking and chewing tobacco. No. 136,303; Nov. 2; v. 280; p. 177.
American Tobacco Company, The, New York, N. Y. Smoking and chewing tobacco. No. 136,304; Nov. 2; v. 280; p. 177.
American Tool & Machine Co., Boston, Mass. Machinery and tools. No. 131,402; May 18; v. 274; p. 601.
American Tractor Corporation, Peoria, Ill. Tractors. No. 133,566; Aug. 3; v. 277; p. 169.
American Tractor & Foundry Company, Charles City, Iowa. Tractors, gas and kerosene internal-combustion engines. No. 137,014; Nov. 16; v. 280; p. 583.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

American Tractors Limited, Honolulu, Hawaii. Canned salmon. No. 130,455; Apr. 27; v. 273; p. 801.
American Trading Co. of the Pacific Coast, San Francisco, Calif. Canned foods, dried fruits, &c. No. 128,285; Jan. 6; v. 270; p. 177.
American Trading Company, New York, N. Y. Hosiery. Nos. 129,116–17; Jan. 27; v. 270; p. 613.
American Trading Company, New York, N. Y. Cotton goods in the piece. Nos. 129,580–1; Mar. 9; v. 272; p. 359.
American Trading Company, New York, N. Y. Colored drills. No. 129,582; Mar. 9; v. 272; p. 359.
American Trading Company, New York, N. Y. Cotton piece goods. Nos. 129,583–91; Mar. 9; v. 272; p. 359.
American Trading Company, New York, N. Y. Gray sheetings and drillings. Nos. 129,592–3; Mar. 9; v. 272; p. 359.
American Trading Company, New York, N. Y. Cotton piece goods. No. 129,594; Mar. 9; v. 272; p. 359.
American Trading Company, New York, N. Y. Yarns. No. 129,976; Mar. 16; v. 272; p. 539.
American Trading Company, New York, N. Y. Threads and yarns. No. 130,148; Apr. 13; v. 273; p. 401.
American Trading Company, New York, N. Y. Cotton blankets and flannels in the piece and made of cotton. No. 131,022; May 4; v. 274; p. 193.
American Trading Company, New York, N. Y. Cotton piece goods. No. 133,567; Aug. 3; v. 277; p. 169.
American Trading Co., New York, N. Y. Wheat-flour. Nos. 137,760–2; Dec. 7; v. 281; p. 195.
American Trading Co., New York, N. Y. Wheat-flour. No. 137,927; Dec. 14; v. 281; p. 395.
American Trading Company, New York, N. Y. Small fish canned in oil. No. 137,928; Dec. 14; v. 281; p. 395.
American Trona Corporation, New York, N. Y. Borax. No. 135,896; Oct. 26; v. 279; p. 715.
American Twine Co., Inc., New York, N. Y. Twine. No. 130,618; May 4; v. 274; p. 181.
American Webbing Manufacturers Export Corporation, New York, N. Y. Elastic and non-elastic webbings. No. 131,403; May 18; v. 274; p. 601.
American Wholesale Corporation (Baltimore Bargain House), Baltimore, Md. Woven underwear. No. 138,416; Dec. 28; v. 281; p. 781.
American Wholesale Corporation, Baltimore and Cumberland, Md. Flannel shirts for outer wear. No. 135,385; Oct. 12; v. 279; p. 341.
American Window Glass Company, Pittsburgh, Pa. Window and picture glass. No. 131,893; May 25; v. 274; p. 835.
American Wire Fabrics Company, Chicago, Ill. Screen wire-cloth. No. 135,588; Oct. 19; v. 279; p. 525.
American Wire Fabrics Company, Chicago, Ill. Screen wire cloth. No. 137,931; Dec. 14; v. 281; p. 395.
American Woolen Products Co., Inc., New York, N. Y. Raw hides, partly-finished leather, and leather. Nos. 135,589–90; Oct. 19; v. 279; p. 525.
American Writing Paper Co., Holyoke, Mass. Printing and writing paper. No. 128,604; Jan. 13; v. 270; p. 335.
American Writing Paper Co., Holyoke, Mass. Writing and printing paper. No. 132,081; June 15; v. 275; p. 615.
American Writing Paper Co., Holyoke, Mass. Printing and writing paper. Nos. 132,609–10; June 29; v. 275; p. 1013.
American Writing Paper Company, Holyoke, Mass. Printing and writing paper. No. 128,283; Jan. 6; v. 270; p. 177.
American Writing Paper Company, Holyoke, Mass. Printing and writing paper. No. 128,286; Jan. 6; v. 270; p. 177.
American Writing Paper Company, Holyoke, Mass. Papeterie-papers. Nos. 131,694–6; May 25; v. 274; p. 829.
American Writing Paper Company, Holyoke, Mass. Writing and printing paper. No. 131,697; May 25; v. 274; p. 829.
American Writing Paper Company, Holyoke, Mass. Papeterie-papers. Nos. 131,698–9; May 25; v. 274; p. 829.
American Writing Paper Company, Holyoke, Mass. Writing and printing paper. Nos. 133,894–6; Aug. 10; v. 277; p. 385.
American Writing Paper Company, Holyoke, Mass. Writing-paper and mailing-envelops. No. 134,882; Sept. 21; v. 278; p. 529.
American Writing Paper Company, Holyoke, Mass. Writing-paper and printing-paper. No. 134,883; Sept. 21; v. 278; p. 529.
American Zinc Products Company, The, Greencastle, Ind. Zinc roofing in the form of plates and sheets. No. 132,879; July 6; v. 276; p. 199.
Ames-Bonner Company, The, Toledo, Ohio. Hand, wall, and stand mirrors. No. 134,569; Sept. 14; v. 278; p. 353.
Ames-Bonner Company, The, Toledo, Ohio. Hair, tooth, and clothes brushes. No. 135,190; Sept. 28; v. 278; p. 701.
Ames, F. A., Company, The, Owensboro, Ky. Buggies and carriages, automobile-bodies, &c. No. 135,897; Oct. 26; v. 279; p. 715.
Ames Shovel & Tool Company, Jersey City, N. J., and Boston, Mass. Shovels, spades, scoops. No. 131,404; May 18; v. 274; p. 601.
Ammen, Chas., Co. Ltd., Alexandria, La. Baby-powder. No. 132,286; June 22; v. 275; p. 815.
Amory, Browne & Co., New York, N. Y. Cotton piece goods. No. 128,605; Jan. 13; v. 270; p. 335.
Amory Browne Export Corpn., Boston, Mass., and New York, N. Y. Cotton piece goods. No. 129,419; Feb. 24; v. 271; p. 677.
Amoskeag Manufacturing Company, Manchester, N. H. Cotton flannels. No. 138,547; Dec. 28; v. 281; p. 786.
Amplex Incorporated, New York, N. Y. Machinery and parts thereof. No. 132,082; June 15; v. 275; p. 615.
Amsterdam, Borgos & Adams, New York, N. Y. Ladies' hats and hat-frames. No. 137,763; Dec. 7; v. 281; p. 195.
Anaheim Orange & Lemon Ass'n, Anaheim, Calif. Fresh citrus fruit. No. 137,093; Nov. 23; v. 280; p. 789.
Anchor Leather Co., Chicago, Ill. Tanned leather hides for shoe-uppers. No. 133,350; July 27; v. 276; p. 767.
Anchor Webbing Co., Pawtucket, R. I. Webbings. No. 130,619; May 4; v. 274; p. 181.
Andell, Hannah B., Williams Bay, Wis. Hand-lotion. No. 132,611; June 29; v. 275; p. 1013.
Andersen, A. O., & Co., Portland, Oreg. Canned salmon. Nos. 128,606–8; Jan. 13; v. 270; p. 335.
Andersen, A. O., & Co., Portland, Oreg. Unsweetened evaporated milk. No. 134,211; Aug. 24; v. 277; p. 777.
Andersen Lumber Company, Hudson, Wis., and South Stillwater, Minn. Wooden window and door frames. No. 135,591; Oct. 19; v. 279; p. 525.
Andersen Lumber Company, Hudson, Wis., and South Stillwater, Minn. Wooden window and door frames. No. 136,745; Nov. 9; v. 280; p. 377.
Andersen, Meyer & Co., Limited, New York, N. Y., and Shanghai, China. Drill-steel and tool-steel. No. 130,458; Apr. 27; v. 273; p. 801.
Andersen, Meyer & Co. Limited, New York, N. Y. Toothbrushes. No. 135,191; Sept. 28; v. 278; p. 701.
Andersen-Meyer & Company, Ltd., New York, N. Y. Bristles and human hair. No. 134,570; Sept. 14; v. 278; p. 353.
Anderson, Alfred W., St. Paul, Minn. Children's sleds and wheeled coasters. No. 135,192; Sept. 28; v. 278; p. 701.
Anderson, Brooke, Chicago, Ill. Metallic fenceposts. No. 136,743; Nov. 9; v. 280; p. 377.
Anderson Electric Specialty Co., Chicago, Ill. Electric-extension-lamp fixtures. No. 136,744; Nov. 9; v. 280; p. 377.
Anderson Engine Company, Chicago, Ill. Internal-combustion engines. No. 136,716; Nov. 2; v. 280; p. 191.
Anderson Forge & Machine Company, Detroit, Mich. Steel drop-forgings. No. 133,568; Aug. 3; v. 277; p. 169.
Anderson, Mari, Preston, Wash. Salve for external application for skin diseases. No. 134,884; Sept. 21; v. 278; p. 529.
Andrews, Frederick E., Pelham Manor, N. Y. Preparation for polishing metal and glass. No. 133,897; Aug. 10; v. 277; p. 385.
Andrews, O. B., Company, Chattanooga, Tenn. Boxes, carriers, and containers. No. 137,094; Nov. 23; v. 280; p. 789.
Andrews, R. P., Paper Company, Washington, D. C. Writing-paper. No. 129,595; Mar. 9; v. 272; p. 359.
Angel, H. Reeve, & Co. Inc., New York, N. Y. Gray filter-paper. No. 132,787; June 29; v. 275; p. 1018.
Angier Mechanical Laboratories, Framingham, Mass. Wrapping and lining paper. No. 128,287; Jan. 6; v. 270; p. 177.
Angier Mechanical Laboratories, Framingham, Mass. Duplex crinkled or craped paper for wrapping tires and other articles. No. 132,612; June 29; v. 275; p. 1013.
Anglo-American Pharmaceutical Corporation, New York, N. Y. Antiseptic powder. No. 134,856; Sept. 14; v. 278; p. 363.
Ansbacher, A. B., & Company, Inc., New York, N. Y. Insecticides and fungicides. No. 128,609; Jan. 13; v. 270; p. 335.
Ansbacher, A. B., & Company, Inc., New York, N. Y. Insecticides and fungicides. No. 132,613; June 29; v. 275; p. 1013.
Ansbacher, A. B., & Company, New York, N. Y. Dry paints, water paste paints, and paint and varnish pigments. Nos. 134,571–2; Sept. 14; v. 278; p. 356.
Ansehl, Benjamin, St. Louis, Mo. Preparation for beautifying the hands, arms, and neck. No. 128,288; Jan. 6; v. 270; p. 177.
Ansonia Novelty Co., The, Ansonia, Conn. Sewing-thimbles. No. 135,592; Oct. 19; v. 279; p. 525.
Anthony, Earle C., Inc., Los Angeles, Calif. Cleanser for removing and cleaning spots, stains, &c., from automobiles, floors, &c. No. 137,933; Dec. 14; v. 281; p. 395.
Anthony, Max M., Cleveland, Ohio. Candy. No. 130,149; Apr. 13; v. 273; p. 401.
Anthracite Hat Co., Scranton, Pa. Men's and boys' hats. No. 136,305; Nov. 2; v. 280; p. 177.
Anti-Bacilli Company, St. Louis, Mo. Mouthpiece attachments for the transmitters of telephones. No. 131,023; May 4; v. 274; p. 194.
Anti-Hydro Waterproofing Company, Newark, N. J. Liquid waterproofing and damp-proofing and liquid hardener for cement and cement mixtures. No. 135,198; Sept. 28; v. 278; p. 701.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Anti-Pyorrhea Chemical Company, St. Louis, Mo. Compositions for fitting false teeth. No. 130,620; May 4; v. 274; p. 181.
Antoine, Arthur, New York, N. Y. Hair-tonic. No. 134,885; Sept. 21; v. 278; p. 529.
Anzac Company, Boston, Mass. Malt beverages. No. 131,700; May 25; v. 274; p. 829.
Anzac Company, Boston, Mass. Non-alcoholic syrups. No. 131,701; May 25; v. 274; p. 829.
Anzell, Alexander A., New York, N. Y. Dental, &c., mirrors, retinoscopes. No. 132,880; July 6; v. 276; p. 199.
Anzell, Alexander A., New York, N. Y. Dental and surgical mirrors, &c. No. 135,593; Oct. 19; v. 279; p. 525.
Apco Asphalt Roofing Co. Inc., New York, N. Y. Asphalt roofing. No. 137,748; Nov. 30; v. 280; p. 1003.
Ape Liniment Co., The, Detroit, Mich. Medicinal solution for external application in the treatment of certain ailments. No. 135,808; Oct. 26; v. 279; p. 715.
Apex Hosiery Company, Philadelphia, Pa. Hosiery. No. 129,118; Jan. 27; v. 270; p. 613.
Apex Steel Co. Ltd., The, Sheffield, England. Steel. Nos. 129,119–20; Jan. 27; v. 270; p. 613.
Apperson Bros. Automobile Co., Kokomo, Ind. Pleasure-automobiles and motor-trucks. No. 128,922; Jan. 20; v. 270; p. 471.
Apollo Magneto Corporation, Dover, Del., and Brooklyn, N. Y. Ignition-magnetos and parts thereof and electrical condensers. No. 134,573; Sept. 14; v. 278; p. 353.
Apsley Rubber Company, Hudson, Mass. Shoes and rubber footwear. Nos. 128,610–11; Jan. 13; v. 270; p. 335.
Apsley Rubber Company, Hudson, Mass. Canvas outing-shoes. No. 130,621; May 4; v. 274; p. 181.
Apsley Rubber Company, Hudson, Mass. Canvas outing-shoes. No. 132,287; June 22; v. 275; p. 815.
Arbuthnot-Stephenson Co., Pittsburgh, Pa. Work-clothes. No. 137,136; Nov. 23; v. 280; p. 790.
Arcadian Waukesha Spring Company, Waukesha, Wis. Non-alcoholic beverages. No. 128,289; Jan. 6; v. 270; p. 177.
Arch Crown Mfg. Co., Newark, N. J. Finger-rings, scarf-pins, shirt-studs. No. 129,596; Mar. 9; v. 272; p. 359.
Archbald, Charles E., New Brunswick, N. J. Typewriter-ribbons, carbon-paper, and stencil-ink. No. 132,614; June 29; v. 275; p. 1013.
Archbold Manufacturing Corporation, Rochester, N. Y. Syrup to be used as a food. No. 130,622; May 4; v. 274; p. 182.
Archer, Charles W., Gary, Ind. Preparation for the treatment of pyorrhea. No. 129,416; Feb. 24; v. 271; p. 677.
Archer Rubber Co., Milford, Mass. Rubber sheeting and blankets. Nos. 135,386–7; Oct. 12; v. 279; p. 341.
Arc-O'-Manufacturing Co. Inc. (See Marmon Chicago Company, The, assignor.)
Arc-O'-Manufacturing Co., Inc., Chicago, Ill. Spark-plugs. Nos. 134,886–7; Sept. 21; v. 278; p. 529.
Arctic Cream Co., Fremont, Nebr. Ice-cream, fancy chocolates, and creamery-butter. No. 134,213; Aug. 24; v. 277; p. 777.
Arctic Ice & Coal Co., Greensboro, N. C. Ice-cream and ices. No. 131,024; May 4; v. 274; p. 194.
Arctic Ice Machine Company, Canton, Ohio. Ice-making machines. No. 129,417; Feb. 24; v. 271; p. 677.
Ardath Tobacco Company Limited, London, England. Cigarettes. Nos. 137,536–8; Nov. 30; v. 280; p. 995.
Area Manufacturing Co., assignor to Famous Sales Company, Chicago, Ill. Lubricating compound. No. 130,459; Apr. 27; v. 273; p. 801.
Argo, Fred N., Los Angeles, Calif. Compound table-syrup and sugar, food-flavoring compound. No. 131,954; June 8; v. 275; p. 413.
Argonne Motor Car Company, Jersey City, N. Y. Automobiles, automobile-radiators, and wheel-hub caps. No. 131,025; May 4; v. 274; p. 194.
Arguimbau & Raimée Inc. New York, N. Y. Olives. No. 137,095; Nov. 23; v. 280; p. 789.
Ar-Lon Medicine Mfg. Co., St. Louis, Mo. Liniment for the treatment of certain-named diseases. No. 135,594; Oct. 19; v. 279; p. 525.
Armand Company, Des Moines, Iowa. Face-powder, cold-cream, hair-wash, &c. No. 129,418; Feb. 24; v. 271; p. 677.
Armand Company, The, Des Moines, Iowa. Face-powder, cold-cream, hair-wash, &c. No. 129,597; Mar. 9; v. 272; p. 359.
Armand Company, The, Des Moines, Iowa. Toilet soaps. No. 132,085; June 15; v. 275; p. 615.
Armand Company, The, Des Moines, Iowa. Toilet soaps. No. 135,388; Oct. 12; v. 279; p. 341.
Armleder, O., & Co., The, Cincinnati, Ohio. Automobile-trucks, wagons, carts, drays, and vehicles. No. 134,574; Sept. 14; v. 278; p. 353.
Armor-Clad Boy's Clothes Co., New York, N. Y. Children's and boys' clothes, suits, overcoats, and pants. No. 129,109; Jan. 20; v. 270; p. 477.
Armorcord Rubber Company, Morgantown, W. Va. Inner tubes for pneumatic tires. No. 137,539; Nov. 30; v. 280; p. 995.
Armour & Company, Chicago, Ill. Musical-instrument strings. Nos. 134,575–8; Sept. 14; v. 278; p. 353.
Armour Fertilizer Works, Chicago, Ill. Fertilizers. No. 134,212; Aug. 24; v. 277; p. 777.
Armour Grain Company. (See Condensed Food Company, assignor.)
Armstrong, A. J., Co. Inc., New York, N. Y. Hosiery, sweaters, knitted novelties, &c. No. 132,086; June 15; v. 275; p. 615.
Armstrong Cork Company, Pittsburgh, Pa. Bottle and prescription corks. No. 128,290; Jan. 6; v. 270; p. 177.
Armstrong Cork Company, Pittsburgh, Pa. Corks. No. 128,612; Jan. 13; v. 270; p. 335.
Armstrong Cork Company, Pittsburgh, Pa. Oiled duck. No. 128,924; Jan. 20; v. 270; p. 471.
Armstrong Cork Company, Pittsburgh, Pa. Composition soles and heels for boots and shoes. Nos. 130,624–5; May 4; v. 274; p. 182.
Armstrong Cork Company, Pittsburgh and Lancaster, Pa. Artificial leather. No. 137,096; Nov. 23; v. 280; p. 789.
Armstrong, Julian, Evanston, Ill. Steel water-towers. No. 133,351; July 27; v. 276; p. 767.
Armstrong, Julian, Chicago, Ill. Wooden tanks. No. 133,569; Aug. 3; v. 277; p. 169.
Arndt, Edward A., Chicago, Ill. Medicinal preparation for skin diseases—viz., piles, eczema, poison-ivy, chafing, &c. No. 129,598; Mar. 9; v. 272; p. 359.
Arnheim, Benjamin H., Pittsburgh, Pa. Metal-polish. No. 133,898; Aug. 10; v. 277; p. 385.
Arnheim, Benjamin H., Pittsburgh, Pa. Cleansing-polish. No. 135,899; Oct. 26; v. 279; p. 715.
Aro-Muco Products Co., West Hoboken, N. J. Mucilage, glue, or library-paste. No. 137,097; Nov. 23; v. 280; p. 789.
Arnold Brothers, Incorporated, Chicago, Ill. Hams, bacon, sausage, lard, and corn-beef. No. 137,764; Dec. 7; v. 281; p. 195.
Arnor, Harry W., Lewiston, Idaho. Washing compound. No. 132,288; June 22; v. 275; p. 815.
Aron, J., & Company, Inc., New Orleans, La. Coffee. Nos. 132,083–4; June 15; v. 295; p. 615.
Aron, J., & Company, Inc., New Orleans, La. Coffee. No. 132,289; June 22; v. 275; p. 815.
Aron, J., & Company, Inc., New York, N. Y. Canned fruits and fish. No. 136,306; Nov. 2; v. 280; p. 177.
Arons, Louis, Chicago, Ill. Garment-supports. No. 128,923; Jan. 20; v. 270; p. 471.
Aronson, Louis V., Newark, N. J. Temperature-indicators for automobile-radiators. No. 135,900; Oct. 26; v. 279; p. 715.
Arrol-Johnston Limited, Heathhall, Dumfries, Scotland. Internal-combustion engines. No. 129,121; Jan. 27; v. 270; p. 613.
Arrow Brand Hemstitching & Tucking Co., The, New York, N. Y. Ladies' and misses' waists for outer wear. No. 134,579; Sept. 14; v. 278; p. 353.
Arrow Lumber Company, The, Parkersburg, W. Va. Lumber and timber. No. 137,098; Nov. 23; v. 280; p. 789.
Arrow Products Co., Peoria, Ill. Non-alcoholic non-intoxicating maltless-non-cereal beverage-punch. No. 131,405; May 18; v. 274; p. 601.
Arrow Products Co., Peoria, Ill. Non-alcoholic maltless beverage. No. 132,290; June 22; v. 275; p. 815.
Arrow Toy Mfg. Co., The, Philadelphia, Pa. Children's velocipedes. No. 137,099; Nov. 23; v. 280; p. 789.
Art Cabinet Company, The, Newark, Ohio. Phonographs. Nos. 129,599–600; Mar. 9; v. 272; p. 360.
Art Lamp Mfg. Co., Chicago, Ill. Electrically-lighted lamps, torches, lanterns, &c. No. 132,881; July 6; v. 276; p. 199.
Art Metal Manufacturing Company, The, Cleveland, Ohio. Electric-lighting fixtures. No. 132,615; June 29; v. 275; p. 1013.
Arto Co., The, Orange, N. J. Talking-machine records and music-roll ends. No. 131,702; May 25; v. 274; p. 829.
Asay Company, J. G., Inc., Philadelphia, Pa. Shoes, pumps, slippers, &c. No. 129,420; Feb. 24; v. 271; p. 677.
Asbestos Wood Mfg. Corporation, New York, N. Y. Asbestos lumber, wood, wall-board, shingles, &c. No. 137,934; Dec. 14; v. 281; p. 395.
Ascher, Simon, & Co. Inc., New York, N. Y. Clothing. No. 138,120; Dec. 14; v. 281; p. 401.
Aseptic Chemical Company, Waukegan, Ill. Foot remedy and corn cure. No. 138,417; Dec. 28; v. 281; p. 781.
Ashland Leather Company, Ashland, Ky., and Chicago, Ill. Sole-leather. No. 131,955; June 8; v. 275; p. 413.
Ashland Milling Co., The, Ashland, Ky. Self-rising flour. No. 133,899; Aug. 10; v. 277; p. 385.
Ashton Manufacturing Co., Newark, N. J. Gasolene, kerosene, and alcohol torches and fire-pots. No. 137,908; Dec. 7; v. 281; p. 200.
Asmus Bradley Co., Chicago, Ill. Thread, yarn, and crochet embroidery-cotton. No. 135,595; Oct. 19; v. 279; p. 525.
Aspegren & Company, New York, N. Y. Edible oils. No. 130,258; Apr. 20; v. 273; p. 619.
Aspegren & Company, New York, N. Y. Edible oils. No. 130,627; May 4; v. 274; p. 182.
Aspegren & Co., New York, N. Y. Shortening and frying medium. No. 131,026; May 4; v. 274; p. 194.
Aspegren, John, New York, N. Y. Cotton-seed oil. Nos. 137,100–1; Nov. 23; v. 280; p. 789.
Asphalt Manufacturing Company, The, Lancaster, Ohio. Slate-surfaced roofings and shingles. No. 130,628; May 4; v. 274; p. 182.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Assanti, Louis V., Boston, Mass. Hair-tonic. No. 129,421; Feb. 24; v. 271; p. 677.
Associated Dairymen of Calif., Inc., San Francisco, Calif. Dairy products. No. 133,900; Aug. 10; v. 277; p. 385.
Astlett, Harry A., New York, N. Y. Metal clasps or fasteners. No. 137,540; Nov. 30; v. 280; p. 995.
Atchison Mills Corporation, The, Atchison, Kans. Wheat-flour. No. 132,616; June 29; v. 275; p. 1013.
Atchison Mills Corporation, The, Atchison, Kans. Wheat-flour. No. 134,214; Aug. 24; v. 277; p. 777.
Aterite, M. H., Company Inc., New York, N. Y. Pipe-fittings, valves, &c. No. 129,122; Jan. 27; v. 270; p. 613.
Athol Manufacturing Company, Athol, Mass. Waterproofed fabric. No. 137,935; Dec. 14; v. 281; p. 395.
Atkins, E. C., & Company, Indianapolis, Ind. Circular saws for wood, metal, &c., band-saws, corn-knives, &c. No. 137,541; Nov. 30; v. 280; p. 995.
Atkinson, Frank H., Canton, Ohio. Healing, catarrh, pile, &c., ointments. No. 137,102; Nov. 23; v. 280; p. 789.
Atlanta Barbers' Supply Co., The, Atlanta, Ga. Hair-tonic, &c. Nos. 128,291–2; Jan. 6; v. 270; p. 177.
Atlanta Barbers' Supply Co., The, Atlanta, Ga. Hair-tonic and dandruff-preventive. No. 134,888; Sept. 21; v. 278; p. 529.
Atlanta Barbers Supply Co., The, Atlanta, Ga. Face and massage cream shampoo, &c. No. 138,418; Dec. 28; v. 281; p. 781.
Atlanta Barbers Supply Co., The, Atlanta, Ga. Toilet water. No. 138,419; Dec. 28; v. 281; p. 781.
Atlanta Paper Company, Atlanta, Ga. Paper bags. Nos. 128,293–4; Jan. 6; v. 270; p. 177.
Atlanta Paper Company, Atlanta, Ga. Paper bags. No. 136,307; Nov. 2; v. 280; p. 177.
Atlantic Coast Distributors, Charleston, S. C. Fruit and fresh vegetables. No. 132,882; July 6; v. 276; p. 199.
Atlantic Insulated Wire & Cable Company, Jersey City, N. J., and Stamford, Conn. Electric wire. No. 130,629; May 4; v. 274; p. 182.
Atlantic Refining Company, The, Philadelphia, Pa. Oleaginous therapeutic suppplanting ichthyol. No. 129,323; Feb. 17; v. 271; p. 507.
Atlantic Refining Company, Philadelphia, Pa. Kerosene and candles. Nos. 131,703–4; May 25; v. 274; p. 829.
Atlantic Refining Company, The, Philadelphia, Pa. White petroleums. No. 132,291; June 22; v. 275; p. 815.
Atlantic Refining Company, The, Philadelphia, Pa. Candles. No. 136,746; Nov. 9; v. 280; p. 377.
Atlantic Refining Company, The, Philadelphia, Pa. Lubricating, illuminating fuel, &c., oils and greases. Nos. 136,998–9; Nov. 9; v. 280; p. 387.
Atlantic Refining Company, The, Philadelphia, Pa. Oils and greases. No. 137,936; Dec. 14; v. 281; p. 395.
Atlantic Remedies Co., The, New York, N. Y. Medicines for stomach, bowel, liver, &c., and for the blood. No. 134,580; Sept. 14; v. 278; p. 353.
Atlantic Seed Co., Inc., The, Philadelphia, Pa. Field-seeds. No. 129,260; Feb. 10; v. 271; p. 355.
Atlas Portland Cement Company, The, Northampton, Pa., and New York, N. Y. Construction material. No. 137,765; Dec. 7; v. 281; p. 195.
Atmore & Son, Inc., Philadelphia, Pa. Preparation for making cake. No. 132,883; July 6; v. 276; p. 199.
Atmospheric Refrigeration Corporation, New York, N. Y. Iceless refrigerators. No. 135,389; Oct. 12; v. 279; p. 341.
Atriken Chemical Works, New Brunswick, N. J. Ointments, petroleum jelly, &c. No. 132,292; June 22; v. 275; p. 815.
Atterbury Bros. Inc., New York, N. Y. Old newspapers. No. 132,956; June 8; v. 275; p. 413.
Atterbury Motor Car Company, Buffalo, N. Y. Motor-trucks and parts. No. 128,925; Jan. 20; v. 270; p. 471.
Atwater Kent Manufacturing Company, Philadelphia, Pa. Electrical apparatus. No. 136,747; Nov. 9; v. 280; p. 377.
Atwater Knitting Company, The, Westfield, Mass. Men's knitted union-suits. No. 135,901; Oct. 26; v. 279; p. 715.
Aubrey-Becker Sales Company, San Francisco, Calif. Cough candy, drops, and lozenges. No. 134,581; Sept. 14; v. 278; p. 353.
Aubry, Justin E., Springfield, Mass. Bread, cakes, pies, and pastry. No. 131,027; May 4; v. 274; p. 194.
Auburn Brush Company, Auburn, Me. Dustpan-brushes, brooms, floor-sweepers, and household brushes. No. 134,474; Sept. 7; v. 278; p. 159.
Auerbach, D., & Sons, New York, N. Y. Chocolates. No. 131,279; May 11; v. 274; p. 399.
Auerbach, D., & Sons, New York, N. Y. Chocolates. No. 136,308; Nov. 2; v. 280; p. 178.
Auerbach, D., & Sons, New York, N. Y. Chocolates. No. 137,932; Dec. 14; v. 281; p. 395.
Auerbach, Harry J., Philadelphia, Pa. Sweaters and Cardigan jackets. No. 137,103; Nov. 23; v. 280; p. 789.
Augenblick, Jacob, (Jack), New York, N. Y. Cigars. No. 137,937; Dec. 14; v. 281; p. 395.
Augusta Ice & Beverage Company, Augusta, Ga. Bakers' syrup for food purposes. No. 135,902; Oct. 26; v. 279; p. 715.
Aulabaugh, C. E., Brosius, W. Va. Canned vegetables and fruit butter. No. 137,542; Nov. 30; v. 280; p. 995.
Ault & Wiborg Co., The, Cincinnati, Ohio. Varnish-paint. No. 131,957; June 8; v. 275; p. 413.
Ault & Wiborg Co., The, Cincinnati, Ohio. Varnish-paint. Nos. 132,884–8; July 6; v. 276; p. 199.
Austen Cologne Company, The, New York, N. Y. Tooth-powder. No. 129,324; Feb. 17; v. 271; p. 507.
Austen Cologne Company, The, New York, N. Y. Mouth-wash. No. 132,617; June 29; v. 275; p. 1013.
Austin Company, The, East Cleveland, Ohio. Standard factory and other buildings and partially-fabricated parts thereof. No. 135,903; Oct. 26; v. 279; p. 715.
Austin, Nichols & Company Incorporated, Brooklyn and New York, N. Y. Certain named foods. No. 130,630; May 4; v. 274; p. 182.
Austin-Nichols & Company, Inc., New York, N. Y. Coffee. No. 133,901; Aug. 10; v. 277; p. 385.
Austinol Chemical Co. Inc., New York, N. Y. Chemical preparation for dandruff. No. 132,618; June 29; v. 275; p. 1013.
Auto Indicator Company, Grand Rapids, Mich. Mechanically-operated traffic-signals for vehicles. No. 133,209; July 20; v. 276; p. 589.
Auto Metal Parts Company, Des Moines, Iowa. Shutters for radiators of motor-vehicles. No. 134,337; Aug. 31; v. 277; p. 971.
Auto-Ordnance Corporation, New York, N. Y. Shoulder-rifles. No. 128,926; Jan. 20; v. 270; p. 471.
Au-To Play Goods Company, The, Parkersburg, W. Va. Swings and suspending-hangers. No. 137,767; Dec. 7; v. 281; p. 195.
Automatic Appliance Company, The, St. Louis, Mo. Machines for timing and controlling the period of operation of laundry-machines and signaling the end of operation thereof. Nos. 134,215–16; Aug. 24; v. 277; p. 777.
Automatic Carbonic Machine Company, Peoria, Ill. Refrigerating-machines. No. 133,570; Aug. 3; v. 277; p. 169.
Automatic Carbonic Machine Company, Peoria, Ill. Refrigerating-machines. No. 137,543; Nov. 30; v. 280; p. 995.
Automatic Electric Sterilizer Co., The, Hamilton, Ohio. Electric sterilizers. No. 131,028; May 4; v. 274; p. 194.
Automatic Electric Washer Co., Newton, Iowa. Laundry power washing-machines. No. 130,037; Apr. 6; v. 273; p. 179.
Automobiles, L. & L., Accessories Corp., Hartford, Conn. Brake-bands and transmission-lining. No. 137,766; Dec. 7; v. 281; p. 195.
Automobile Owners Tire Corporation, Sioux City, Iowa. Rubber tires, inner tubes. No. 133,571; Aug. 3; v. 277; p. 169.
Automotive Products Corporation, New York, N. Y. Automobiles. No. 137,544; Nov. 30; v. 280; p. 995.
Automotive Supply Company, Dallas, Tex. Adhesives. No. 128,295; Jan. 6; v. 270; p. 177.
Automotive Supply Company, Dallas, Tex. Gum-shellac. No. 135,194; Sept. 28; v. 278; p. 701.
Autoyre Company, The, Oakville, Conn. Bath-room fittings. No. 135,904; Oct. 26; v. 279; p. 715.
Avalon Farms Company, The, Chicago, Ill. Tonic and conditioner for horses only. No. 136,309; Nov. 2; v. 280; p. 178.
Avery, B. F., & Sons, Louisville, Ky. Cutlery, machinery, &c. No. 137,104; Nov. 23; v. 280; p. 789.
Avery, B. F., & Sons, Louisville, Ky. Agricultural machinery and knife and tool grinders. No. 137,768; Dec. 7; v. 281; p. 195.
Avery, B. F., & Sons, Louisville, Ky. Agricultural machines and parts. No. 137,938; Dec. 14; v. 281; p. 395.
Axelson Machine Co., Los Angeles, Calif. Lathes and metal-working grinders. No. 130,460; Apr. 27; v. 273; p. 801.
Aydelotte, William M., New York, N. Y. Temporary letter-files and loose-leaf binders and sheet-holding attachments therefor. No. 128,296; Jan. 6; v. 270; p. 177.
Ayotte, Joseph R., Chicago, Ill. Spark-plug. No. 128,613; Jan. 13; v. 270; p. 385.
B. & H. Fibre Mfg. Co., Chicago, Ill. Talking-machine needles. No. 130,719; May 4; v. 274; p. 184.
B & R Laboratories & Mfg. Co., Inc., The, Jersey City, N. J. Prophylactic for venereal diseases. No. 133,572; Aug. 3; v. 277; p. 169.
B. & W. Company, Philadelphia, Pa., assignor to National Motor Control Co. Ignition-locks for internal-combustion engines. No. 137,135; Nov. 23; v. 280; p. 790.
B. V. D. Company, The, New York, N. Y. Underwear. No. 130,663; May 4; v. 274; p. 183.
Babies Dispensary & Hospital of Cleveland, The, Cleveland, Ohio. Prepared milk food used in the feeding of infants. No. 135,195; Sept. 28; v. 278; p. 701.
"Babs" Manufacturing Corporation, Philadelphia, Pa. Walking doll. No. 130,631; May 4; v. 274; p. 182.
Baby Blue Food Products Co., Inc., Rochester, N. Y. Mayonnaise dressing. No. 137,105; Nov. 23; v. 280; p. 789.
Baby's Boudoir, Inc., Portland, Oreg. Plain and fancy dresses, gertrudes, nighties, &c. No. 129,422; Feb. 24; v. 271; p. 677.
Bacharach, S., and Company, Philadelphia, Pa. Men's and young men's suits and overcoats. No. 134,582; Sept. 14; v. 278; p. 353.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Bachman, Otto, St. Louis, Mo. Phonographs. No. 132,619; June 29; v. 275; p. 1013.
Bachrach, William, Oakland, Calif. Non-alcohol non-cereal maltless beverages, and non-alcoholic fruit syrup for making the same. No. 131,705; May 25; v. 274; p. 829.
Back Creek Valley Orchard Company, Hedgesville, W. Va. Fresh peaches, canned apples, peaches, tomatoes, and beans. No. 128,927; Jan. 20; v. 270; p. 471.
Backé, Tod, Brooklyn, N. Y. Candies. No. 131,029; May 4; v. 274; p. 194.
Backé, Tod, Brooklyn, N. Y. Candies. No. 132,620; June 29; v. 275; p. 1013.
Backé, Tod, Brooklyn, N. Y. Candies. No. 137,106; Nov. 23; v. 280; p. 789.
Badenoch, J. J., Co., Chicago, Ill. Cattle food. No. 129,123; Jan. 27; v. 270; p. 613.
Badenoch, J. J. Co., Chicago, Ill. Stock and poultry feeds. No. 135,196; Sept. 28; v. 278; p. 701.
Baer, Arthur A., Brooklyn, N. Y. Original written articles. No. 136,310; Nov. 2; v. 280; p. 178.
Baer Collapsible Rim Corporation, San Francisco, Calif. Collapsible rim. No. 130,259; Apr. 20; v. 273; p. 619.
Baer, Joseph E., New York, N. Y. Hosiery and children's rompers. No. 133,902; Aug. 10; v. 277; p. 385.
Baer, Ludwig, New York, N. Y. Razors. No. 132,087; June 15; v. 275; p. 615.
Bagshaw, W. H., Co., Lowell, Mass. Phonographic needles. No. 136,748; Nov. 9; v. 280; p. 377.
Bagshaw, W. H., Co., Lowell, Mass. Talking-machine needles. No. 138,533; Dec. 28; v. 281; p. 785.
Bahnsen, C., & Co. Inc., New York, N. Y. Ladies' knitted dress goods known as jersey cloth in the piece. No. 132,889; July 6; v. 276; p. 199.
Bahr, Leopold, Brooklyn, N. Y. Antiseptic for cleansing the teeth. No. 128,614; Jan. 13; v. 270; p. 335.
Bailey, B. F., & Co., New York, N. Y. Bedspreads. No. 132,088; June 15; v. 275; p. 615.
Bailey Company, Inc., The, Los Angeles, Calif. Tire-covers. No. 136,311; Nov. 2; v. 280; p. 178.
Bailey, Ellen, Poughkeepsie, N. Y. Preparation for the treatment of fevers. No. 138,217; Dec. 21; v. 281; p. 563.
Bainbridge, G. K., Ripon, Calif. Candy-making machinery and parts thereof. No. 133,573; Aug. 3; v. 277; p. 169.
Bair-Collins Coal Co., Billings, Mont. Coal. No. 134,338; Aug. 31; v. 277; p. 971.
Baird, Cassius M. C., Chicago, Ill. Fire-hose. No. 133,574; Aug. 3; v. 277; p. 169.
Baird, David, and Son, Louisville, Ky. Women's, misses', and children's trimmed hats. No. 133,099; July 13; v. 276; p. 401.
Bake-Rite Oven Mfg. Company, San Francisco, Calif. Bread-making machinery and accessories. No. 131,407; May 18; v. 274; p. 601.
Bake-Rite Oven Manufacturing Company, Reno, Nev., and San Francisco, Calif. Cookies, cakes, pastry, fruits, nuts, &c. No. 137,545; Nov. 30; v. 280; p. 995.
Bake-Rite Oven Mfg. Company, Reno, Nev., and San Francisco, Calif. Sales-counters, display-racks, kitchen-cabinets, chairs, stools, &c. No. 134,583; Sept. 14; v. 278; p. 353.
Baker and Company Incorporated, Newark, N. J. Gold alloy for dental clasps and the like. No. 130,089; Apr. 6; v. 273; p. 179.
Baker and Company Incorporated, Newark, N. J. White gold for dental shells and plates. No. 130,040; Apr. 6; v. 273; p. 179.
Baker, Edward O., Shanghai, China. Fountain-pens. No. 137,939; Dec. 14; v. 281; p. 395.
Baker, Erwin H., San Jose, Calif. Perfumes. No. 136,312; Nov. 2; v. 280; p. 178.
Baker, Erwin H., San Jose, Calif. Medicine for the stomach and liver. No. 138,420; Dec. 28; v. 281; p. 781.
Baker, George W., Dallas, Tex. Waterproof dressing for leather, &c. No. 131,030; May 4; v. 274; p. 194.
Baker, H. L., & Co., Rochester, N. Y. Toilet preparations. No. 131,706; May 25; v. 274; p. 829.
Baker Linen Co., New York, N. Y. Towels. No. 129,825; Feb. 17; v. 271; p. 507.
Baker Lumber Co., Worcester, Mass. Lumber. No. 132,621; June 29; v. 275; p. 1013.
Baker-Overton Company, Dallas, Tex. Waterproof dressing for textiles, &c. No. 128,928; Jan. 20; v. 270; p. 471.
Baker, R. & L., Company, The, Cleveland, Ohio. Automobiles. No. 128,297; Jan. 6; v. 270; p. 177.
Baker R. & L. Company, The, Cleveland, Ohio. Automobiles. No. 134,889; Sept. 21; v. 278; p. 529.
Baker R. & L. Company, The, Cleveland, Ohio. Automobiles—namely, electric passenger-vehicles and trucks. No. 135,174; Sept. 21; v. 278; p. 539.
Baker, R. & L. Company, The, Cleveland, Ohio. Automobiles. Nos. 137,546–7; Nov. 30; v. 280; p. 995.
Baker Wheel & Rim Company, Chicago, Ill. Motor-vehicle wheels. No. 135,197; Sept. 28; v. 278; p. 701.
Baker, William A., Chicago, Ill. Cosmetics. No. 129,423; Feb. 24; v. 271; p. 677.
Bakers' Products Company, The, Cleveland, Ohio. Oil compound used in the baking of food products. No. 135,596; Oct. 19; v. 279; p. 525.
Bakers Supply Company, Columbus, Ga. Flavored pudding-dessert mixture. No. 137,107; Nov. 23; v. 280; p. 789.
Bakke, A., Omaha, Nebr. Bread. No. 131,031. May 4; v. 274; p. 194.
Baldwin Chain and Manufacturing Company, Worcester, Mass. Power-transmission or drive chains for motor-trucks, &c. No. 133,210; July 20; v. 276; p. 589.
Baldwin Company, Cincinnati, Ohio. Phonograph-records. No. 129,601; Mar. 9; v. 272; p. 360.
Baldwin Company, The, Cincinnati, Ohio. Phonographs. No. 133,903; Aug. 10; v. 277; p. 385.
Baldwin Company, The, Cincinnati, Ohio. Pianos, player-pianos, and piano-players. No. 134,584; Sept. 14; v. 278; p. 353.
Balinky, Abraham, New York, N. Y. Embroidering-machines. No. 128,298; Jan. 6; v. 270; p. 177.
Ball, C. S., Candy Company, The, Dayton, Ohio. Candy. No. 129,826; Feb. 17; v. 271; p. 507.
Ball, C. S., Candy Company, The, assignor to Elinor's, Dayton, Ohio. Candy. No. 132,622; June 29; v. 275; p. 1013.
Ball, William J., Portland, Oreg. Ladies' shirt-waists. No. 129,602; Mar. 9; v. 272; p. 360.
Ballantine, P., & Sons, Newark, N. J. Malt extracts. Nos. 137,940–1; Dec. 14; v. 281; p. 395.
Ballin, Solomon, New York, N. Y. Clothing. No. 131,032; May 4; v. 274; p. 194.
Ballin, Solomon, New York, N. Y. Sleeping-garments. No. 131,033; May 4; v. 274; p. 194.
Ballis, E. R., & Bro. Inc., New York, N. Y. Hosiery and underwear. No. 137,108; Nov. 23; v. 280; p. 789.
Balme, Jean B. C., New York, N. Y. Hair-coloring. No. 134,475; Sept. 7; v. 278; p. 159.
Balsamea Co., The, San Francisco, Calif. Medicinal preparation. No. 135,597; Oct. 19; v. 279; p. 525.
Balson, Harold S., Toronto, Ontario, Canada. Blank or partly-printed tags. No. 137,109; Nov. 23; v. 280; p. 789.
Balston, W. & R. Limited, Maidstone, England. Filter-paper. No. 131,707; May 25; v. 274; p. 829.
Baltimore Bargain House, Baltimore and Cumberland, Md. Work-shirts. No. 128,615; Jan. 13; v. 270; p. 335.
Baltimore Bargain House, Baltimore and Cumberland, Md. Monthly publications. No. 137,548; Nov. 30; v. 280; p. 995.
Baltimore Pearl Hominy Company, The, Baltimore, Md. Syrup for sweetening foods. No. 135,905; Oct. 26; v. 279; p. 715.
Baltimore Pearl Hominy Company, The, Baltimore, Md. Table-syrup and syrup for sweetening foods. No. 135,906; Oct. 26; v. 279; p. 715.
Baltimore Process Co., Baltimore, Md. Non-alcoholic mixtures used in making malt beverages. No. 135,907; Oct. 26; v. 279; p. 715.
Bancroft, Joseph, & Sons Co., Wilmington, Del. Cotton piece goods. No. 129,603; Mar. 9; v. 272; p. 360.
Bankers Supply Co., The, Denver, Colo., and Chicago, Ill. Safety-paper. Nos. 128,299–300; Jan. 6; v. 270; p. 177.
Bankers Supply Co., The, Denver, Colo., and Chicago, Ill. Safety-paper. No. 129,604; Mar. 9; v. 272; p. 360.
Barbe, Alfred M., New York, N. Y. Woven, printed, and dyed drapery fabrics. No. 132,890; July 6; v. 276; p. 199.
Barbe, Alfred M., New York, N. Y. Cotton piece goods. No. 137,491; Nov. 23; v. 280; p. 802.
Barber & Bennett, Inc., Albany, N. Y. Stock, horse, dairy, and poultry feed. No. 130,633; May 4; v. 274; p. 182.
Barber, Bessie L., Los Angeles, Calif. Toilet creams, face-bleach, &c. No. 128,616; Jan. 13; v. 270; p. 336.
Barber Milling Company, Minneapolis, Minn. Wheat-flour. No. 129,605; Mar. 9; v. 272; p. 360.
Barboy, John, Reading, Pa. Cereal malt beverage. No. 132,089; June 15; v. 275; p. 615.
Barbour Brothers Co., Paterson, N. J. Linen thread. No. 128,617; Jan. 13; v. 270; p. 336.
Barco Manufacturing Company, Chicago, Ill. Valves, joints for pipes, valve and pipe fittings. No. 136,313; Nov. 2; v. 280; p. 178.
Barco Manufacturing Company, Chicago, Ill. Gaskets, molded, asbestos composition, and metal-faced gaskets, &c. No. 137,549; Nov. 30; v. 280; p. 995.
Bard, W. E., Sedalia, Mo. Medicine for the treatment of colds, coughs, and other throat and lung diseases. No. 134,476; Sept. 7; v. 278; p. 159.
Bardos, Coleman, Jr., New York, N. Y. Glass fire-extinguishers. No. 130,476; Apr. 27; v. 273; p. 801.
Bargman, Theodore, Detroit, Mich. Clock and watch dials. No. 133,100; July 13; v. 276; p. 401.
Barker Bros. Silversmiths, Ltd., Birmingham, England. Silverware and silver-plated ware. No. 136,749; Nov. 9; v. 280; p. 377.
Barker's, S., Sons Company, The, Cleveland, Ohio. Certain named paper and stationery. No. 129,606; Mar. 9; v. 272; p. 360.
Barkmahn Company, Inc., The, New York, N. Y. Tobacco and cigarettes, Smoking-. No. 137,942; Dec. 14; v. 281; p. 395.
Barlow, John T., Philadelphia, Pa. Photo-engravers' inks. No. 133,904; Aug. 10; v. 277; p. 385.
Barna, Peter, New York, N. Y. Canned mackerel. No. 134,217; Aug. 24; v. 277; p. 777.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Barnes, Lawrence J., Tuscaloosa, Ala. Simple syrup, non-alcoholic, maltless, used in making a soft drink. No. 138,379; Dec. 21; v. 281; p. 569.

Barnes-Ross Company, Indianapolis, Ind. Monthly publication. No. 134,339; Aug. 31; v. 277; p. 971.

Barnet, Charles S., Saranac Lake, N. Y. Booklets published from time to time. No. 137,111; Nov. 23; v. 280; p. 789.

Barnet Leather Company, New York, N. Y. Patent-leather and finished calfskins. No. 130,461; Apr. 27; v. 273; p. 801.

Barnett Foundry & Machine Co., Irvington, N. J. Ironing-machines. No. 135,390; Oct. 12; v. 279; p. 341.

Baron, Alexander, Brooklyn, N. Y. Toy-watch dials and cases. No. 128,301; Jan. 6; v. 270; p. 177.

Baron, Henry M., Chicago, Ill. Clothing. No. 137,110; Nov. 23; v. 280; p. 789.

Barr, F. E. & Company, Chicago, Ill. Antiseptic liquid. No. 128,618; Jan. 13; v. 270; p. 336.

Barr, J. E., Pickling and Preserving Company, St. Cloud, Minn. Canned vegetables. No. 132,623; June 29; v. 275; p. 1013.

Barr, J. E., Pickling & Preserving Company, St. Cloud, Minn. Canned vegetables. Nos. 132,891–2; July 6; v. 276; p. 199.

Barrel Syrup Co., The, Oakland, Calif. Maple-cane sugar and fruit syrups for table purposes. No. 135,908; Oct. 26; v. 279; p. 716.

Barrett Co., The, New York, N. Y. Resin. No. 129,261; Feb. 10; v. 271; p. 355.

Barrett Company, New York, N. Y. Ready-mixed paint. No. 128,929; Jan. 20; v. 270; p. 471.

Barrett Company, The, New York, N. Y. Felt roofing and sheathing and building paper. No. 136,314; Nov. 2; v. 280; p. 178.

Barrows, G. L., assignor to Sagamore Chemical Co., Inc., New York, N. Y. Photographic chemicals. Nos. 129,424–6; Feb. 24; v. 271; p. 677.

Barrows, G. L., assignor to Sagamore Chemical Co., Inc., New York, N. Y. Photographic chemical and anilin dyes. No. 132,624; June 29; v. 275; p. 1013.

Bartholomew, Roy L., Minneapolis, Minn. Tire-patch. No. 134,477; Sept. 7; v. 278; p. 159.

Bartlett, Francis A., Stamford, Conn. Arboreal healing-cement, flooring, and insulating materials for heat or cold. No. 137,112; Nov. 23; v. 280; p. 789.

Bartlett, J. E., & Sons, Tampa, Fla. Fresh fruit. No. 132,625; June 29; v. 275; p. 1013.

Bartlett, James R., New York, N. Y. Watch and clock dials. No. 132,893; July 6; v. 276; p. 199.

Bartlett, Stephen L., Company, Boston, Mass. Cocoa and chocolate. No. 128,302; Jan. 6; v. 270; p. 178.

Barton Belt Company, assignor to Barton Manufacturing Co., Waco, Tex. Polish for leather goods. No. 131,931; June 1; v. 275; p. 199.

Barton, Ernest L., Chester, S. C. Dress-shirts, negligée shirts and soft collars. No. 134,585; Sept. 14; v. 278; p. 353.

Bartsch, Walter F., Washington, D. C. Cartoons. No. 136,750; Nov. 9; v. 280; p. 377.

Bartz, Nicholas B., Grand Rapids, Mich. Pills. No. 137,113; Nov. 23; v. 280; p. 790.

Barva Heel & Tire Factory, Inc., Fort Wayne, Ind. Rubber heels. No. 131,034; May 4; v. 274; p. 194.

Basic Products Corporation, (now by change of name, The Theroz Company,) New York, N. Y. Fuel-burners for solidified alcohol. No. 131,958; June 8; v. 275; p. 413.

Basket Stores Co., Omaha, Nebr. Foods. Nos. 128,303–4; Jan. 6; v. 270; p. 178.

Basket Stores Company, Omaha, Nebr. Coffee. No. 128,305; Jan. 6; v. 270; p. 178.

Basket Stores Company, Omaha, Nebr. Foods and ingredients of foods. Nos. 133,905–6; Aug. 10; v. 277; p. 385.

Bass, Rubin, New York, N. Y. Press-boards. No. 128,306; Jan. 6; v. 270; p. 178.

Basso Co., The, Chicago, Ill. Cheese and dried sausages. No. 135,909; Oct. 26; v. 279; p. 716.

Bastian-Blessing Company, Chicago, Ill. Cutting and welding torches and parts thereof. No. 130,151; Apr. 13; v. 273; p. 401.

Batchelder, George F., Chicago, Ill. Toilet preparations. No. 135,598; Oct. 19; v. 279; p. 525.

Bates, A. J., & Company, Inc., New York, N. Y. Shoes and slippers. No. 133,576; Aug. 3; v. 277; p. 169.

Bates, A. J., & Company, New York, N. Y. Leather. No. 134,586; Sept. 14; v. 278; p. 356.

Bates, A. J., & Company, New York, N. Y. Leather shoes and shoes with cloth uppers. Nos. 138,421–2; Dec. 28; v. 281; p. 781.

Bates & Abbott, Boston, Mass. Table-salt. No. 129,327; Feb. 17; v. 271; p. 507.

Bath Bottling Co., Bath, Me. Ginger-ale. No. 135,599; Oct. 19; v. 279; p. 525.

Batuglos, Stamatis, Verona, Pa. Fruitless anise-flavored carbonated beverages. No. 132,090; June 15; v. 275; p. 615.

Bau, José, Tortosa, Spain. Olive-oil. No. 130,260; Apr. 20; v. 273; p. 619.

Bau, José, Tortosa, Spain. Olive-oil. Nos. 134,340–2; Aug. 31; v. 277; p. 971.

Bauer & Black, Chicago, Ill. Medicated plasters. No. 129,607; Mar. 9; v. 272; p. 360.

Bauer & Black, Chicago, Ill. Medicated plasters. No. 134,890; Sept. 21; v. 278; p. 529.

Bauer Chemical Co. Inc., New Orleans, La. Corn medicine and foot-powder. No. 131,280; May 11; v. 274; p. 399.

Baugatz, Frédéric G., Paris, France. Corsets and belts worn as substitutes for corsets. No. 134,587; Sept. 14; v. 278; p. 353.

Baum, Benj. J., San Francisco, Calif. Candy. No. 136,751; Nov. 9; v. 280; p. 377.

Baum & Schoel, Waterloo, Iowa. Doughnut-machines. No. 131,409; May 18; v. 274; p. 601.

Baum, W. A., Co., Inc., New York, N. Y. Sphygmomanometers. No. 128,307; Jan. 6; v. 270; p. 178.

Bauman, Hyman, & Co., New York, N. Y. Veils and hair-nets. Nos. 129,608–9; Mar. 9; v. 272; p. 360.

Bauman, Hyman, & Co., New York, N. Y. Handkerchiefs. No. 132,894; July 6; v. 276; p. 199.

Bauman, Hyman, & Co., New York, N. Y. Cotton piece goods. No. 134,387; Aug. 31; v. 277; p. 972.

Bauman, Hyman, & Co., New York, N. Y. Handkerchiefs. No. 134,561; Sept. 7; v. 278; p. 161.

Bauman, Hyman, & Co., New York, N. Y. Handkerchiefs. No. 135,910; Oct. 26; v. 279; p. 716.

Bauman, Max, New York, N. Y. Jewelry for personal wear—viz., finger-rings. No. 129,610; Mar. 9; v. 272; p. 360.

Baumann-Ramelli Company, New Orleans, La. Preparation for the treatment of hay-fever. No. 129,427; Feb. 24; v. 271; p. 677.

Baurier, Tivollier, Toulouse, France. Foods. No. 136,667; Nov. 2; v. 280; p. 189.

Bausch Machine Tool Company, Springfield, Mass. Non-ferrous metal in the form of castings and forgings, &c. No. 132,895; July 6; v. 276; p. 199.

Baush Machine Tool Company, Springfield, Mass. Non-ferrous metal in form of sheets, castings, and forgings. No. 133,577; Aug. 3; v. 277; p. 169.

Bausher, Solon D., Reading, Pa. Knit underwear. No. 134,588; Sept. 14; v. 278; p. 353.

Bay City Milling Company, Bay City, Mich. Wheat-flour and cornmeal. No. 131,959; June 8; v. 275; p. 413.

Bay City Milling Company, Bay City, Mich. Wheat-flour and buckwheat-flour. No. 134,218; Aug. 24; v. 277; p. 777.

Bay, H. C., Company, Chicago, Ill., and Bluffton, Ind. Pianos and piano-players. Nos. 134,589–91; Sept. 14; v. 278; pp. 353–4.

Bay Ridge Specialty Co., Inc., Brooklyn, N. Y. Bath-room fixtures. No. 130,152; Apr. 13; v. 273; p. 401.

Bay Side Canning Co., Alviso, Calif. Canned fruits and vegetables. No. 132,293; June 22; v. 275; p. 815.

Bay Side Canning Co., Alviso, Calif. Canned fruits and vegetables. Nos. 135,911–12; Oct. 26; v. 279; p. 716.

Bay Side Canning Co., Alviso, Calif. Canned fruits and vegetables. No. 137,550; Nov. 30; v. 280; p. 996.

Bay State Optical Company, Saco, Me., and Attleboro, Mass. Frames of spectacles and eyeglasses. No. 132,294; June 22; v. 275; p. 815.

Bayer Company, Inc., The, New York, N. Y. Analgesic and antipyretic. Nos. 134,891–2; Sept. 21; v. 278; p. 529.

Beach Leather Company, Coshocton, Ohio. Pocket-books. No. 130,041; Apr. 6; v. 273; p. 179.

Beach, L. E., Baltimore, Md. Cathartic medicine. No. 134,893; Sept. 21; v. 278; p. 529.

Beach Soap Company, Lawrence, Mass. Laundry soap. No. 137,943; Dec. 14; v. 281; p. 395.

Beacon Feed Company, The, New York, N. Y. Dairy rations, horse feed, scratch-grains. No. 137,015; Nov. 16; v. 280; p. 583.

Beacon Phonograph Company, Boston, Mass. Phonographs, records and needles. No. 134,592; Sept. 14; v. 278; p. 354.

Beal, Lottie G., Jonesport, Me. Liniment to be used in treatment of certain named ailments. No. 129,611; Mar. 9; v. 272; p. 360.

Beall, Edward, Los Angeles, Calif. Combination of herbs for use in the treatment of certain named diseases. No. 131,281; May 11; v. 274; p. 399.

Bear-Cat Products Co., Inc., The, Oklahoma, Okla. Radiator-seal. No. 128,619; Jan. 13; v. 270; p. 336.

Bear, Joe L., Philadelphia, Pa. Liniment. No. 135,601; Oct. 19; v. 279; p. 525.

Bear Lithia Springs Co., New York, N. Y. Non-alcoholic beverages. No. 136,315; Nov. 2; v. 280; p. 178.

Beardsley, Calvin L., Rock Island, Ill. Malt extract. No. 130,261; Apr. 20; v. 273; p. 619.

Beardsley, Calvin L., Rock Island, Ill. Imitation wine. No. 137,944; Dec. 14; v. 281; p. 395.

Beardstown Grocer Co., Beardstown, Ill. Canned vegetables. No. 135,600; Oct. 19; v. 279; p. 525.

Beatty Machine & Mfg. Co., Hammond, Ind. Power steel punches, shears, presses, &c. No. 137,551; Nov. 30; v. 280; p. 996.

Beatty, William, Jr., and Co., Philadelphia, Pa. Candy. No. 130,262; Apr. 20; v. 273; p. 619.

Beauchamp, Joseph O., Springfield, Mass. Antiseptic for use in the nose. No. 132,295; June 22; v. 275; p. 815.

Beaudette & Graham Engineering Co., Boston, Mass. Electric-lighting plants. No. 128,620; Jan. 13; v. 270; p. 336.

Beaumont Dry Goods & Notions Co., Beaumont, Tex. Clothing. No. 135,913; Oct. 26; v. 279; p. 716.

Beaumont, F., National-Croustade Manufacturing Company, Inc., The, New York, N. Y. Cup or dish like receptacles made of fried or baked pastry. No. 133,211; July 20; v. 276; p. 589.

Beaver Company, Buffalo, N. Y. Wall-board. No. 130,009; Mar. 23; v. 272; p. 731.

Beaver Company, The, Buffalo, N. Y. Prepared sheet-roofing, roofing tiles and cements, and shingles. Nos. 132,626–7; June 29; v. 275; p. 1013.

Beaver Company, The, Buffalo, N. Y. Linoleum and composition floor-coverings. No. 133,578; Aug. 3; v. 277; p. 169.

Beaver Company, The, Buffalo, N. Y. Wall-board and building-paper. No. 136,752; Nov. 9; v. 280; p. 377.

Beaver Company, The, Buffalo, N. Y. Prepared sheet-roofing, roofing-tiles, and cement shingles. No. 137,114; Nov. 23; v. 280; p. 790.

Beaver Company, The, Buffalo, N. Y. Roofing—namely, roofing shingles and cements. No. 137,117; Nov. 23; v. 280; p. 790.

Beaver Machine & Tool Co., Inc., Newark, N. J. Milking-machines. No. 131,282; May 11; v. 274; p. 399.

Beaver Refining Company, Pittsburgh, Pa. Gasolene, benzin, naphtha, fuel-oil, &c. No. 134,593; Sept. 14; v. 278; p. 354.

Beaver Varnish Company, The, Buffalo, N. Y. Paste and ready-mixed paints and varnishes. No. 132,296; June 22; v. 275; p. 815.

Beaver Varnish Company, Inc., The, Buffalo, N. Y. Paints and painters' materials. Nos. 137,115–16; Nov. 23; v. 280; p. 790.

Bech, Van Sicien & Co. Inc., San Francisco, Calif. Wheat-flour. No. 135,391; Oct. 12; v. 279; p. 341.

Beck, John M., New Orleans, La. Salve for boils, carbuncles, eczema, poisonous bites, &c. No. 136,316; Nov. 2; v. 280; p. 178.

Beck, Lucien P., Eagle Pass, Tex. Preparation used in treatment for worms. No. 136,317; Nov. 2; v. 280; p. 178.

Beck, Lucien P., Eagle Pass, Tex. Medicinal preparations. No. 136,318; Nov. 2; v. 280; p. 178.

Beck, Mitchel, Brooklyn, N. Y. Canned fish. No. 130,634; May 4; v. 274; 182.

Becker, Edw. M., Company, The, Cleveland, Ohio. Marshmallow candy. No. 133,907; Aug. 10; v. 277; p. 385.

Becker, Geo. H., Baltimore, Md. Potato chips, doughnuts, zwieback. No. 134,219; Aug. 24; v. 277; p. 777.

Becker, Gustav L., Ogden, Utah. Non-intoxicating carbonated cereal maltless beverage. No. 130,153; Apr. 13; v. 273; p. 401.

Becker, Harry, New Orleans, La. Paint-remover. No. 137,118; Nov. 23; v. 280; p. 790.

Becker, John W., Chicago, Ill. Abrasive devices for use on commutators of electric machines. No. 133,579; Aug. 3; v. 277; p. 169.

Beckmann, Geo. H., St. Louis, Mo. Sole-leather. No. 129,262; Feb. 10; v. 271; p. 355.

Becton, Dickinson & Co., Rutherford, N. J. All-cotton elastic bandage. No. 130,635; May 4; v. 274; p. 182.

Becton, Dickinson & Co., Rutherford, N. J. Veterinary needles and syringes, pill-injectors, milking-tubes, &c. No. 135,392; Oct. 12; v. 279; p. 341.

Beddoes, Joseph G., Birmingham, England. Locks. No. 128,930; Jan. 20; v. 270; p. 471.

Bedford Mills, Inc., New York, N. Y. Cotton piece goods. No. 129,612; Mar. 9; v. 272; p. 360.

Bedrosian, Milan, Elmira, N. Y. Cleaning preparation for rugs, silk, &c. No. 131,966; June 8; v. 275; p. 413.

Bee Bee Confection Company, The, Dayton, Ohio. Chewing-gum. No. 131,410; May 18; v. 274; p. 601.

Bee Ess Knitting Mills, Inc., New York, N. Y. Sweaters, silk, wool, and cotton. No. 130,462; Apr. 27; v. 273; p. 801.

Beech-Nut Packing Company, Canajoharie, N. Y. Non-alcoholic beverages. No. 133,580, Aug. 3; v. 277; p. 170.

Beech-Nut Packing Company, Canajoharie, N. Y. Birch-beer, root-beer, and sarsaparilla. No. 136,754; Nov. 9; v. 280; p. 377.

Beech-Nut Packing Corporation, Canajoharie, N. Y. Ginger-ale. No. 128,621; Jan. 13; v. 270; p. 336.

Beich, Paul F., Co., Bloomington, Ill. Candy. No. 130,636; May 4; v. 274; p. 182.

Beich, Paul F., Company, Bloomington, Ill. Salted peanuts and topping for sundaes, &c. No. 131,283; May 11; v. 274; p. 399.

Beich, Paul F., Co., Bloomington, Ill. Candy. No. 132,398; Oct. 12; v. 279; p. 341.

Beinhauer Bros. Candy Co., New York, N. Y. Candy. No. 131,035; May 4; v. 274; p. 194.

Beitler, William L., Jr., New York, N. Y. Cigarettes. No. 136,319; Nov. 2; v. 280; p. 178.

Belber Trunk & Bag Company, The, Philadelphia, Pa. Trunks, suitcases, handbags, &c. No. 129,977; Mar. 16; v. 272; p. 539.

Belcanto Co., Inc., The, New York, N. Y. Phonographs, records, sound-boxes, and needles. Nos. 132,091–2; June 15; v. 275; p. 615.

Belclear Phonograph Corporation, New York, N. Y. Musical instruments and supplies therefor. No. 135,394; Oct. 12; v. 279; p. 341.

Belding Bros. & Co., New York, N. Y. Silks and satins in the piece. No. 131,284; May 11; v. 274; p. 399.

Bell & Howell Co., Chicago, Ill. Motion-picture-producing apparatus. No. 129,124; Jan. 27; v. 270; p. 613.

Bell & Howell Co., Chicago, Ill. Motion-picture producing apparatus. No. 130,637; May 4; v. 274; p. 182.

Bell, J. S., Confectionery Company, Cambridge, Mass. Candy. No. 131,036; May 4; v. 274; p. 194.

Bell, J. S., Confectionery Company, Cambridge, Mass. Candy. No. 132,094; June 15; v. 275; p. 615.

Bell, J. S. Confectionery Company, Cambridge, Mass. Candies. No. 134,343; Aug. 31; v. 277; p. 971.

Bell, J. S., Confectionery Company, Cambridge, Mass. Candy. No. 135,395; Oct. 12; v. 279; p. 341.

Bell, John, Hills & Lucas, Limited, London, England. Preparation for cleaning face and hands, feathers and furs, and removing grease-spots. No. 132,093; June 15; v. 275; p. 615.

Bell Manufacturing Company, Winder, Ga. Overalls, overall shirts, jackets, and pants. No. 135,198; Sept. 28; v. 278; p. 701.

Bell Manufacturing Company, Inc., Richmond, Va. Liquid gasolene-intensifier. No. 137,552; Nov. 30; v. 280; p. 996.

Bell Pump & Manufacturing Co., Detroit, Mich. Automobile air-pumps and oil-pumps and grease-cups. No. 128,622; Jan. 13; v. 270; p. 336.

Bell, Robt. J., assignor to Bell's Auto Memo Co., Richmond, Va. Memorandum-tablets. No. 132,297; June 22; v. 275; p. 815.

Beller, Louis S., New York, N. Y. Stripping and bleaching powders and remover of colors from fabrics. No. 131,708; May 25; v. 274; p. 829.

Bellevue Laboratories, Inc., New York, N. Y. Embalming fluid. No. 136,267; Oct. 26; v. 279; p. 727.

Bell's United Asbestos Co. Ltd., London, England. Cement-concrete blocks and slabs, cement-asbestos plates, &c. No. 137,120; Nov. 23; v. 280; p. 790.

Belmont Motors Corporation, Harrisburg, Pa. Automobiles and automobile-trucks. No. 135,367; Sept. 28; v. 278; p. 707.

Belpre Co-Operative Equity Union, Belpre, Kans. Wheat-flour. No. 137,119; Nov. 23; v. 280; p. 790.

Benchley Brothers, Inc., Boston, Mass. Food ingredients, particularly egg substitutes. No. 137,769; Dec. 7; v. 281; p. 195.

Bencoe Importing and Exporting Co. Inc., New York, N. Y. Sheeting. No. 132,298; June 22; v. 275; p. 815.

Bencoe Lumber Company, Inc., New York, N. Y. Dressed lumber and staves. No. 136,755; Nov. 9; v. 280; p. 377.

Bender-Zimmer Company, Milwaukee, Wis. Clothing. No. 137,121; Nov. 23; v. 280; p. 790.

Benedix, Victor, Columbus, Ohio. Medicated inhalant, a nerve and blood tonic, and stomach and asthma medicines. No. 132,299; June 22; v. 275; p. 815.

Benedict, John F., Portsmouth, Ohio. Cleaning compound for use in laundries and dry-cleaning establishments. No. 137,553; Nov. 30; v. 280; p. 996.

Benekos, William J., Chicago, Ill. Non-alcoholic beverages. No. 128,308; Jan. 6; v. 270; p. 178.

Benjamin & Johnes, Newark, N. J. Corsets, brassières, and women's underwear. No. 130,463; Apr. 27; v. 273; p. 801.

Benjamin, L., & Sons, New York, N. Y. Olive-oil. No. 136,320; Nov. 2; v. 280; p. 178.

Benn, Joseph, & Sons Inc., Greystone, R. I., and New York, N. Y. Cotton and mohair piece goods, &c. No. 128,623; Jan. 13; v. 270; p. 336.

Benn, Joseph, & Sons, Inc., New York, N. Y. Cotton and mohair piece goods and mixtures of same. No. 129,613; Mar. 9; v. 272; p. 360.

Bennett and Aspden Company, Philadelphia, Pa. Pile fabrics. No. 132,095; June 15; v. 275; p. 615.

Bennett Milling Co., The, Grafton, Ohio. Wheat-flour. No. 137,945; Dec. 14; v. 281; p. 395.

Bennettsville Brick Company, Florence, S. C. Brick. No. 135,602; Oct. 19; v. 279; p. 525.

Bensinger, Norman E., Chicago, Ill. Billiard-cue tips. No. 132,896; July 6; v. 276; p. 199.

Benson Brothers, Philadelphia, Pa. Worsted cloth in the piece. No. 132,096; June 15; v. 275; p. 615.

Benson, Nina B., Memphis, Tenn. Laxative medicine. No. 128,624; Jan. 13; v. 270; p. 336.

Bentley, Nettie, Washington, D. C. Preparation of cold-cream for the face and hands. No. 129,428; Feb. 24; v. 271; p. 677.

Bentley & Twohey, New York, N. Y. Silk piece goods. No. 131,037; May 4; v. 274; p. 194.

Benton, L. F., Company, Vergennes, Vt. Spark-plugs for internal-combustion engines. No. 136,268; Oct. 26; v. 279; p. 727.

Benton, Theodore, Roff, Okla. Blight-exterminator. No. 131,411; May 18; v. 274; p. 601.

Berbecker & Rowland Manufacturing Company, Waterville, Conn. Metallic articles of upholstery and cabinet hardware. No. 131,038; May 4; v. 274; p. 194.

Berdan Company, The, Toledo, Ohio. Table-desserts. No. 135,603; Oct. 19; v. 279; p. 525.

Berfelden Mills, Inc., Plainfield, N. J., and New York, N. Y. Silk piece goods. No. 129,614; Mar. 9; v. 272; p. 360.

Berg, Abraham J., New York, N. Y. Calculating-machines. No. 136,321; Nov. 2; v. 280; p. 178.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Berger Manufacturing Company, The, Canton, Ohio. Steel office equipment and furniture. No. 133,352; July 27; v. 276; p. 767.
Berger Manufacturing Company, The, Canton, Ohio. Metal ceilings. No. 135,604; Oct. 19; v. 279; p. 525.
Berger Manufacturing Company, Canton, Ohio. Metal ceilings. No. 136,756; Nov. 9; v. 280; p. 377.
Berger, Samuel, Newark, N. J. Sink-scoops. No. 134,153; Aug. 17; v. 277; p. 581.
Bergengren, Roy F., Lynn, Mass. Candy. No. 130,154; Apr. 13; v. 273; p. 401.
Bergfeldt, George, & Co., New York, N. Y. Toy building-blocks. No. 134,599; Sept. 14; v. 278; p. 354.
Beriault, Joseph B., Seattle, Wash. Hair-tonic. No. 128,625; Jan. 13; v. 270; p. 336.
Berkshire Manufacturing Company of Pittsfield, Pittsfield, Mass. Pants, trousers, &c. No. 129,263; Feb. 10; v. 271; p. 355.
Berkshire Shirt Co., New York, N. Y. Pajamas. No. 133,581; Aug. 3; v. 277; p. 170.
Berkwits, Max, New York, N. Y. Coats for young boys and girls. No. 133,353; July 27; v. 276; p. 767.
Berman, Gus, Atlanta, Ga. Cold-cream for the skin, pomade for the hair, and a face powder. No. 129,615; Mar. 9; v. 272; p. 360.
Bernard, Henry B., Jefferson, S. D. Worm-expeller, horse-tonic, hog-tonic, &c. No. 132,300; June 22; v. 275; p. 815.
Bernard, Pierre J. H., Montreal, Quebec, Canada. Electrical air-heating apparatus and parts therefor. No. 136,322; Nov. 2; v. 280; p. 178.
Bernard, William J., New York, N. Y. Watches. No. 132,897; July 6; v. 276; p. 199.
Berne, Milton M., San Francisco, Calif. Canned fish. No. 137,122; Nov. 23; v. 280; p. 790.
Bernet, Craft & Kauffman Milling Co., St. Louis, Mo. Self-rising wheat-flour. No. 131,961; June 8; v. 275; p. 413.
Berney-Bond Glass Company, Clarion, Pa. Glass bottles. No. 136,328; Nov. 2; v. 280; p. 178.
Bernsteer, David, Cleveland, Ohio. Liquid fiber roofing-cement. No. 135,396; Oct. 12; v. 279; p. 341.
Bernstein, Baum, Da Costa Company, Philadelphia, Pa. Suits and coats for women. No. 132,301; June 22; v. 275; p. 815.
Bernstein, Ernest, Chicago, Ill. Non-alcoholic maltless non-cereal syrup used to make soft-drink beverages. No. 135,397; Oct. 12; v. 279; p. 341.
Bernstein, Harry, Tampa, Fla. Candy. No. 137,492; Nov. 23; v. 280; p. 802.
Bernstein, Louis, New York, N. Y. Phonograph-records. No. 137,554; Nov. 30; v. 280; p. 996.
Bernstein Manufacturing Company, Philadelphia, Pa. Cots and couches. No. 133,212; July 20; v. 276; p. 589.
Berry & Lewis, New York, N. Y. Fuel control for internal-combustion engines. No. 128,627; Jan. 13; v. 270; p. 336.
Berry, Joseph, Binghamton, N. Y. Cream or salve for congestion and inflammation. No. 128,626; Jan. 13; v. 270; p. 336.
Bertarelli, Fratelli, Milan, Italy. Typewriting-machines. No. 136,807; Nov. 9; v. 280; p. 379.
Berte, Elwood, Peoria, Ill. Candies. No. 136,757; Nov. 9; v. 280; p. 377.
Berthe May, Inc., New York, N. Y. Obstetric belts No. 128,454; Jan. 6; v. 270; p. 182.
Bertin & Stimson, San Francisco, Calif. Chocolates. No. 136,324; Nov. 2; v. 280; p. 178.
Bessire & Company, Indianapolis, Ind., and Louisville, Ky. Paper napkins, doilies, and circles, cake-laces. No. 137,046; Dec. 14; v. 281; p. 395.
Best, A., Starr, Chicago, Ill. Leather shoes for boys. No. 138,218; Dec. 21; v. 281; p. 563.
Beston, R. S., & Co., New York, N. Y. Canned fruits. No. 137,948; Dec. 14; v. 281; p. 395.
"Bestov" Manufacturing Co., Seattle, Wash. Electrical goods. No. 134,594; Sept. 14; v. 278; p. 364.
Beterpack Canning Co., Decoto, Calif. Canned fruits and vegetables. Nos. 135,914–15; Oct. 26; v. 279; p. 710.
Beterpack Canning Company, Decoto, Calif. Canned fruit and vegetables. Nos. 136,326–7; Nov. 2; v. 280; p. 178.
Bethania Mineral Spring Company, Osceola, Wis. Non-alcoholic beverage and syrup for flavoring same. No. 132,097; June 15; v. 275; p. 615.
Better Times, Inc. (See United Neighborhood Houses of New York, assignor.)
Betts, George H., New York, N. Y. Toilet preparations No. 129,616; Mar. 9; v. 272; p. 360.
Betty, Way, Washington, D. C. Corsets, girdles, brassières. No. 138,365; Dec. 21; v. 281; p. 567.
Betz Bros., Inc., New York, N. Y. Toilet stalls and doors and shower-bath partitions. No. 134,857; Sept. 14; v. 278; p. 363.
Bianchi, Romildo, New York, N. Y. Toilet preparations. No. 129,328; Feb. 17; v. 271; p. 507.
Bianchini, Férier, Lyon, France. Piece goods of silk, wool, linen, cotton, and other textile fabrics. No. 133,354; July 27; v. 276; p. 767.
Bianco & Gianassi, Alameda, Calif. Candies. No. 137,555; Nov. 30; v. 280; p. 996.

Biberman Brothers, Philadelphia, Pa. Women's and misses' washable dresses and bath-robes, nurses' and maids' uniforms. No. 129,329; Feb. 17; v. 271; p. 507.
Bickell, David A., assignor to San-tro-pas Manufacturing Company, Limited, Lethbridge, Alberta, Canada. Healing compounds. No. 128,628; Jan. 13; v. 270; p. 336.
Bickmore Co., The, Oldtown, Me. Accounts-books. No. 133,909; Aug. 10; v. 277; p. 385.
Bierhaus, John S., Vincennes, Ind. Table-syrup. No. 132,628; June 29; v. 275; p. 1013.
Biesenbach, Ed. L., & Co., San Antonio, Tex. Candies. No. 137,123; Nov. 23; v. 280; p. 700.
Biesenbach, Ed. L., & Co., San Antonio, Tex. Cough-drops. No. 138,424; Dec. 28; v. 281; p. 781.
Biflex Products Company, Waukegan, Ill. Automobile-bumpers and attaching-brackets. No. 134,595; Sept. 14; v. 278; p. 354.
Big Diamond Mills Co., Minneapolis, Minn. Wheat-flour. No. 138,425; Dec. 28; v. 281; p. 781.
Biggar Manufacturing Co., San Francisco, Calif. Paint for the preservation of surfaces exposed to acids. No. 129,330; Feb. 17; v. 271; p. 507.
Biggar Manufacturing Co., San Francisco, Calif. Paint for the preservation of iron and other metal. No. 129,331; Feb. 17; v. 271; p. 507.
Billings & Spencer Company, The, Hartford, Conn. Tools and parts thereof. No. 130,638; May 4; v. 274; p. 182.
Biltwell Glove Company, The, Toledo, Ohio. Gloves. No. 133,213; July 20; v. 276; p. 589.
Binghamton Candy Co., Binghamton, N. Y. Confectionery. No. 128,629; Jan. 13; v. 270; p. 336.
Binghamton Slag Roofing Co. Inc., Binghamton, N. Y. Asphalt roofing materials. No. 129,264; Feb. 10; v. 271; p. 355.
Binz, Edward G., Los Angeles, Calif. Medicinal treatment. No. 135,605; Oct. 19; v. 279; p. 526.
Birdsong, Lafayette F., McComb, Miss. Liver-pills. No. 136,328; Nov. 2; v. 280; p. 178.
Birge, M. H., & Sons Co., Buffalo, N. Y. Wall-paper. No. 129,617; Mar. 9; v. 272; p. 360.
Birk Brothers Brewing Company, Chicago, Ill. Non-intoxicating beverage. No. 131,285; May 11; v. 274; p. 399.
Birrell Silent Motor Co. Inc., Chicago, Ill. Valves for internal-combustion engines. No. 128,630; Jan. 13; v. 270; p. 336.
Bisceglia Brothers Co., San Jose, Calif. Canned fruits. No. 133,910; Aug. 10; v. 277; p. 385.
Bisceglia Brothers, San Jose, Calif. Canned fruits and vegetables. No. 137,030; Nov. 16; v. 280; p. 588.
Bisceglia Brothers, San Jose, Calif. Canned fruits and vegetables. No. 137,947; Dec. 14; v. 281; p. 395.
Bishop & Company, Los Angeles, Calif. Candies, cocoa, jams, &c. No. 130,639; May 4; v. 274; p. 182.
Bishop, Homer G., Oakland, assignor to Specialty Products Company, San Francisco, Calif. Toy vehicle. No. 137,556; Nov. 30; v. 280; p. 996.
Bisk Corporation, Brockton, Mass. Certain named steel furnishings. No. 137,949; Dec. 14; v. 281; p. 395.
Bitrose Co., Milwaukee, Wis. Candies. No. 128,309; Jan. 6; v. 270; p. 178.
Bittner, G. C., Co., The, Toledo, Ohio. Toilet preparation. No. 131,039; May 4; v. 274; p. 194.
Bitu-Mo-Lin Products Co., Seattle, Wash. Marine glue or lute. No. 132,098; June 15; v. 275; p. 615.
Bixler Baking Co., Youngstown, Ohio. Bread. No. 130,640; May 4; v. 274; p. 182.
Bixby, S. M., & Co., Inc., Brooklyn, N. Y. Composition in solid, liquid, or paste form for the treatment of white shoes. No. 134,302; Aug. 24; v. 277; p. 781.
Bixby, S. M., & Co., Inc., Brooklyn, N. Y. Shoe-polishes. No. 134,303; Aug. 24; v. 277; p. 781.
Black Cat Textile Company, Kenosha, Wis. Knitted underwear. No. 128,585; Jan. 6; v. 270; p. 186.
Black & Decker Manufacturing Company, The, Towson, Md. Electric drills, screw-drivers, and valve-grinders. No. 138,171; Dec. 14; v. 281; p. 403.
Black & Gay Canners, Inc., Thomaston, Me. Canned goods. No. 137,950; Dec. 14; v. 281; p. 395.
Black, L., Company, New York, N. Y. Woolen piece goods. No. 129,429; Feb. 24; v. 271; p. 677.
Black, L., Company, New York, N. Y. Woolen piece goods. Nos. 129,618–9; Mar. 9; v. 272; p. 360.
Black, Leo P., Chattanooga, Tenn. Digestive medicine. No. 129,622; Mar. 9; v. 272; p. 360.
Black Products Company, Chicago, Ill. Targets. No. 135,398; Oct. 12; v. 279; p. 341.
Black Swan Company, Waseca, Minn. Electric-lighting plants. No. 131,412; May 18; v. 274; p. 601.
Black Swan Company, Waseca, Minn. Electric-lighting plants. No. 131,709; May 25; v. 274; p. 829.
Blackburn, Richard H., Jersey City, N. J. Toy vehicle—viz., coaster. No. 132,898; July 6; v. 276; p. 199.
Blackman, Samuel, Philadelphia, Pa. Non-alcoholic beverage. No. 135,860; Oct. 19; v. 279; p. 535.
Blackman Talking Machine Co., Inc., New York, N. Y. Talking-machine-record brushes. No. 133,355; July 27; v. 276; p. 767.
Blackman Talking Machine Co., Inc., New York, N. Y. Talking-machine needles. No. 135,606; Oct. 19; v. 279; p. 526.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Blackwood, John L. H., London, England. Buttons, device for use in protecting material to which they are attached while cleaning. No. 131,962; June 8; v. 275; p. 413.

Blahnik, V. L., & Sons, Chicago, Ill. Internal remedy for affections of the lungs and throat, colds, coughs, &c. No. 134,478; Sept. 7; v. 278; p. 159.

Blair, J. C., Company, Huntingdon, Pa. Paper for writing, envelops for correspondence, and writing-tablets. No. 128,310; Jan. 6; v. 270; p. 178.

Blair, J. C., Company, Huntingdon, Pa. Paper, envelops, tablets, blank books. No. 128,311; Jan. 6; v. 270; p. 178.

Blair, J. C., Company, Huntingdon, Pa. Paper, envelops, tablets, and blank books. No. 129,620; Mar. 9; v. 272; p. 360.

Blair, J. C., Company, Huntingdon, Pa. Paper and stationery. No. 129,621; Mar. 9; v. 272; p. 360.

Blair, J. C., Company, Huntingdon, Pa. Paper, envelops, tablets, blank books. No. 131,041; May 4; v. 274; p. 194.

Blair, J. C., Company, Huntingdon, Pa. Paper, envelops, blank books, tablets. No. 132,629; June 29; v. 275; p. 1013.

Blair, J. C. Company, Huntingdon, Pa. Writing, pencil, drawing, and spelling tablets and blank books. No. 137,557; Nov. 30; v. 280; p. 996.

Blaisdell Pencil Company, Philadelphia, Pa. Lead-pencils, crayons, penholders, fountain-pens, &c. No. 13,263; Apr. 20; v. 273; p. 619.

Blanck & Co., Inc., New York, N. Y. Laces and embroideries in the piece. No. 133,357; July 27; v. 276; p. 767.

Blanke, C. F., Tea & Coffee Company, St. Louis, Mo. Salad-dressing, peanut-butter, and salted peanuts. No. 133,582; Aug. 3; v. 277; p. 170.

Blankinship, John S., Lynchburg, Va. Certain named furniture. No. 130,155; Apr. 13; v. 273; p. 401.

Blatchford Calf Meal Company, Waukegan, Ill. Compound ground feed for rabbits, &c. No. 128,631; Jan. 13; v. 270; p. 336.

Blatchford Calf Meal Company, Waukegan, Ill. Feeds for animals and poultry. No. 128,632; Jan. 13; v. 270; p. 336.

Blatchford Calf Meal Company, Waukegan, Ill. Compound ground feed. No. 130,641; May 4; v. 274; p. 182.

Blattner, Abraham, Pittsburgh, Pa. Bow-ties. No. 137,124; Nov. 23; v. 280; p. 790.

Blaul's, John, Sons Co., Burlington, Iowa. Foods. No. 137,951; Dec. 14; v. 281; p. 396.

Blawn, James F., Brooklyn, N. Y. Cleaning fluid for polishing metal surfaces. No. 131,042; May 4; v. 274; p. 194.

Blazer, Henry C., Kansas City, Mo. Leather, fabric, and combination shoes. No. 134,643; Sept. 14; v. 278; p. 355.

Blei, Jacob, New York, N. Y. Trunks. No. 137,562; Nov. 30; v. 280; p. 996.

Blemo Company, The, Canton, Ohio. Ointment for pimples, blackheads, tetter, itch, &c. No. 128,315; Jan. 6; v. 270; p. 178.

Blessing, Harry B., Jersey City, N. J. Ready-mixed and enamel paints. No. 131,894; May 25; v. 274; p. 835.

Blessing Mfg. Co., New York, N. Y. Electric fruit-juice extractors. No. 136,758; Nov. 9; v. 280; p. 377.

Blewett, Henry, & Son, Inc., Somerville, Mass. Bread. No. 130,156; Apr. 13; v. 273; p. 401.

Blickensderfer Manufacturing Company, The, (now by judicial change of name The Blick Typewriter Company,) Stamford, Conn. Typewriters. No. 133,101; July 13; v. 276; p. 401.

Blickman, Sophia, New York, N. Y. Tire-pumps. No. 135,607; Oct. 19; v. 279; p. 526.

Bliss, E. A., Company, The, Meriden, Conn. Jewelry. No. 130,264; Apr. 20; v. 273; p. 619.

Bliss, E. A., Company, Meriden, Conn. Combs of celluloid. No. 135,399; Oct. 12; v. 279; p. 341.

Bloch, Albert, & Son, New York, N. Y. Sponges and chamois. No. 137,952; Dec. 14; v. 281; p. 396.

Bloch Chemical Company, Inc., The. Hair-nets. No. 133,356; July 27; v. 276; p. 767.

Bloch Chemical Company, Inc., The, New York, N. Y. Hair-nets. No. 133,583; Aug. 3; v. 277; p. 170.

Bloch, L. D., & Co., New York, N. Y. Silver-plated hollow and flat ware for table service. No. 135,608; Oct. 19; v. 279; p. 526.

Block Bros. Tobacco Co., The, Wheeling, W. Va. Cigarettes. Nos. 130,642–3; May 4; v. 274; p. 182.

Block & Drexler, New York, N. Y.; said Drexler assignor to said Block. Men's neckties and scarfs. No. 128,633; Jan. 13; v. 270; p. 336.

Block & Kuhl Company, Peoria, Ill. Dry paste and ready-mixed paints. No. 133,358; July 27; v. 276; p. 767.

Block, Louis A., New Orleans, La. Cleaning liquid adapted for general use. No. 133,911; Aug. 10; v. 277; p. 385.

Block, Louis A., New Orleans, La. Polishing and cleaning liquid. No. 134,596; Sept. 14; v. 278; p. 354.

Block, Monroe, & Co., Providence, R. I. Pearls. No. 134,597; Sept. 14; v. 278; p. 354.

Blometer, Joel, Hobarton, Iowa. Spark-plugs. No. 137,558; Nov. 30; v. 280; p. 996.

Bloom, Abram, Co., Inc., Paterson, N. J. Thrown silk. No. 128,634; Jan. 13; v. 270; p. 336.

Bloom, Edgar J., Tiffin, Ohio. Pedal extensions for automobiles. No. 137,909; Dec. 7; v. 281; p. 200.

Bloom Flusher Co., Tiffin, Ohio. Oil-cup. No. 130,644; May 4; v. 274; p. 182.

Bloom & Moses, Inc., Baltimore, Md. Female apparel. No. 133,214; July 20; v. 276; p. 589.

Bloom, William, & Co., Inc., New York, N. Y. Clothing. No. 134,598; Sept. 14; v. 278; p. 354.

Bloomfield, Meyer, Boston, Mass. Publication issued weekly. No. 136,329; Nov. 2; v. 280; p. 178.

Bloor, James B., Los Angeles, Calif. Weekly magazine. No. 138,219; Dec. 21; v. 281; p. 563.

Blual Chemical Co., New York, N. Y. Laundry bluing in capsule form. No. 134,894; Sept. 21; v. 278; p. 529.

Blublaze Motor Specialties Corp., New York, N. Y. Ignition-timers. No. 130,645; May 4; v. 274; p. 182.

Blubuck Manufacturing Co., Hopkinsville, Ky. Overalls and work-shirts. No. 129,125; Jan. 27; v. 270; p. 613.

Bludwine Company, Athens, Ga. Non-alcoholic beverages and flavoring and syrups for making same. No. 128,312; Jan. 6; v. 270; p. 178.

Bludwine Company, Athens, Ga. Syrup used in making non-alcoholic beverages and a beverage. No. 135,916; Oct. 26; v. 279; p. 716.

Blue Bird Manufacturing Company, St. Louis, Mo. Clothes-washing machines. No. 130,042; Apr. 6; v. 273; p. 179.

Blue Bird Manufacturing Company, St. Louis, Mo. Dish-washing and sewing machines. No. 131,413; May 18; v. 274; p. 601.

Blue Bird Manufacturing Company, St. Louis, Mo. Kitchen tables and cabinets. No. 133,215; July 20; v. 276; p. 589.

Blue Bird Manufacturing Company, St. Louis, Mo. Refrigerating-machines. No. 133,584; Aug. 3; v. 277; p. 170.

Blue Bird Manufacturing Company, St. Louis, Mo. Ironing-machines, wringing-machines, and sad-irons. No. 133,585; Aug. 3; v. 277; p. 170.

Blue Island Specialty Co., Blue Island, Ill. Dentists' and orthodontists' appliances. No. 135,917; Oct. 26; v. 279; p. 716.

Blue Ridge Metals Corporation, Roanoke, Va., and Pittsburgh, Pa. Metals and metal castings and forgings. No. 133,102; July 13; v. 276; p. 401.

Blum Bros., Chicago, Ill. Clothing. No. 137,125; Nov. 23; v. 280; p. 790.

Blum Brothers, Chicago, Ill. Clothing. No. 129,126; Jan. 27; v. 270; p. 613.

Blum, Edard, Chicago, Ill. Portrait-photographs. No. 133,359; July 27; v. 276; p. 767.

Blum, Simon, New York, N. Y. House organ. No. 136,330; Nov. 2; v. 280; p. 178.

Blumauer-Frank Drug Company, Portland, Oreg. Antiseptic mouth-wash, catarrh and blood medicines, &c. No. 129,623; Mar. 9; v. 272; p. 360.

Blumauer-Frank Drug Company, Portland, Oreg. Shaving-cream, shampoo-soap, and antiseptic soap. No. 137,016; Nov. 16; v. 280; p. 583.

Blumenthal, Sidney & Co., Inc., New York, N. Y. Pile fabrics in the piece. No. 132,244; June 15; v. 275; p. 620.

Blumenthal, Sidney, & Co., Inc., New York, N. Y. Pile fabrics of all kinds in the piece. No. 134,304; Aug. 24; v. 277; p. 781.

Blumenthal, Sidney, & Co., Inc., New York, N. Y. Pile fabrics in the piece. Nos. 135,609–10; Oct. 19; v. 279; p. 526.

Bodinson-Terrell Candy Co., Chicago, Ill. Candy. No. 128,635; Jan. 13; v. 276; p. 336.

Boedeker & Co., Cincinnati, Ohio. Beverage, non-alcoholic. No. 131,414; May 18; v. 274; p. 601.

Boehme, Max P., San Francisco, Calif. Plasters for the cure of corns, bunions, and callouses. No. 129,430; Feb. 24; v. 271; p. 677.

Bofsky, Frank J., Detroit, Mich. Neckties. No. 129,624; Mar. 9; v. 272; p. 360.

Bogalusa Turpentine Company, Bogalusa, La. Turpentine. No. 129,332; Feb. 17; v. 271; p. 507.

Bogalusa Turpentine Company, Bogalusa, La. Rosin. No. 130,464; Apr. 27; v. 273; p. 801.

Bognatzky Bros. & Co., Nashville, Tenn. Men's and boys' suits and men's pants. No. 137,493; Nov. 23; v. 280; p. 802.

Boguslavsky, Alexander, Limited, London, England. Smoking-tobacco, cigars, and cigarettes. No. 136,331; Nov. 2; v. 280; p. 178.

Bojnowski, Rev. Lucyan, New Britain, Conn. Newspaper. No. 133,360; July 27; v. 276; p. 767.

Boker Cutlery & Hardware Company, Inc., New York, N. Y. Razors. No. 133,575; Aug. 3; v. 277; p. 169.

Boker, H., & Co. Inc., New York, N. Y. Steel balls for ball-bearings. No. 130,632; May 4; v. 274; p. 182.

Bolander, John A., San Francisco, Calif. Stringed musical instruments resembling a banjo and ukulele. No. 132,630; June 29; v. 275; p. 1013.

Boldemann Chocolate Company, San Francisco, Calif. Sweet chocolate. No. 130,646; May 4; v. 274; p. 182.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Bolt, Cadimus L., Ware Shoals, S. C. Medicinal compound for a liver-regulator and general tonic. No. 134,479; Sept. 7; v. 278; p. 159.

Bolton, John W., and Sons, Inc., Lawrence, Mass. Cutlery, machinery, and tools and parts thereof. No. 131,710; May 25; v. 274; p. 829.

Bommer, Emil, Brooklyn, N. Y. Builders' hardware. No. 129,127; Jan. 27; v. 270; p. 613.

Bonat, Samuel & Bro., New York, N. Y. Hair-nets. No. 131,415; May 18; v. 274; p. 601.

Bond, Charles, Company, Philadelphia, Pa. Antisqueak frame-linings. No. 133,586; Aug. 3; v. 277; p. 170.

Bond, Edward W., Portland, Oreg. Window-cleaning composition in brick form. No. 132,099; June 15; v. 275; p. 615.

Bonebright, Gertrude R., Grand Rapids, Mich. Supporters for diapers. No. 131,043; May 4; v. 274; p. 194.

Bong, C. Harry, Chicago, Ill. Lotions for soothing and treating irritations of the skin. No. 131,416; May 18; v. 274; p. 601.

Bonheur Co. Inc., Syracuse, N. Y. Toilet water. No. 128,636; Jan. 13; v. 270; p. 336.

Bonheur Co., The, Syracuse, N. Y. Toilet water. No. 129,625; Mar. 9; v. 272; p. 360.

Bonn, Otto W., New York, N. Y. Non-fermentable-body sugar and a syrup thereof. No. 137,563; Nov. 30; v. 280; p. 996.

Bonotaux Textile Co., Inc., New York, N. Y. Cotton piece goods. No. 137,494; Nov. 23; v. 280; p. 802.

Bonsack Woolen Mill, Bonsack, Va. Woolen blankets. No. 129,431; Feb. 24; v. 271; p. 677.

Boone, Joseph J., Mount Victory, Ohio. Medicine for colds, grippe, influenza, and headache. No. 135,611; Oct. 19; v. 279; p. 526.

Boone Tire & Rubber Company, Chippewa Falls, Wis. Automobile-casings of rubber and canvas. No. 133,587; Aug. 3; v. 277; p. 170.

Boonville Mineral Springs Co., Utica and Boonville, N. Y. Spring, carbonated, &c., waters and non-alcoholic, noncereal, maltless beverages and syrups for making same. No 135,919; Oct. 26; v. 279; v. 716.

Boord & Son (Incorporated), London, England. Distilled alcoholic liquors. No. 133,103; July 13; v. 276; p. 401.

Boorum & Pease Co., New York, N. Y. Blank books, pads, and tablets. No. 134,895; Sept. 21; v. 278; p. 529.

Boott Mills, Lowell, Mass. Cotton piece goods No. 137,912; Nov. 10; v. 277; p. 385.

Booth & Platt Co., Bridgeport, Conn. Ginger-beer. No. 128,637; Jan. 13; v. 270; p. 336.

Booth, Ronald E., Seattle, Wash. Toy velocipedes. No. 137,963; Dec. 14; v. 281; p. 396.

Booty, Stanley S., London, England. Toilet powder and rouge. No. 138,344; Dec. 21; v. 281; p. 567.

Borden Brothers and Co. Ltd., Toms Brook, Va. Wheat-flour. No. 136,759; Nov. 9; v. 280; p. 377.

Borden Company, The, New York, N. Y. Condensed milk. Nos. 128,931–2; Jan. 20; v. 270; p. 471.

Borden Company, The, New York, N. Y. Confectionery. No. 128,933; Jan. 20; v. 270; p. 471.

Borden Company, The, New York, N. Y. Condensed milk. Nos. 128,934–41; Jan. 20; v. 270; pp. 471–2.

Borden Company, The, New York, N. Y. Confectionery. No. 129,626; Mar. 9; v. 272; p. 360.

Borden Company, The, New York, N. Y. Condensed milk. No. 130,265; Apr. 20; v. 273; p. 619.

Borden Company, The, Jersey City, N. J., and New York, N. Y. Foods and ingredients of foods. No. 130,647; May 4; v. 274; p. 182.

Borden Company, The, Warren Ohio. Diestocks, hand pipe-cutters, &c. No. 131,286; May 11; v. 274; p. 399.

Borden Company, The, New York, N. Y. Chocolate. Nos. 137,495–6; Nov. 23; v. 280; p. 802.

Borden Company, The, New York, N. Y. Foods. Nos. 137,954–5; Dec. 14; v. 281; p. 396.

Borden Company, The, Jersey City, N. J., and New York, N. Y. Condensed milk. No. 137,956; Dec. 14; v. 281; p. 396.

Borden's Condensed Milk Company, New York, N. Y. Condensed milk. No. 128,313; Jan. 6; v. 270; p. 178.

Borden's Condensed Milk Company, New York, N. Y. Confectionery. No. 133,361; July 27; v. 276; p. 767.

Borden's Farm Products Company, Inc., Wassaic and New York, N. Y. Foods and ingredients of food. No. 128,942; Jan. 20; v. 270; p. 472.

Borders, James B., Macon, Ga. Liquid preparation for the treatment of certain named ailments. No. 135,612; Oct. 19; v. 279; p. 526.

Boretz Mercantile Company, El Paso, Tex. Hosiery, underwear, shirts, overalls, hats, &c. No. 137,559; Nov. 30; v. 280; p. 996.

Borgfeldt, George, & Co., New York, N. Y. Toilet powder. No. 131,711; May 25; v. 274; p. 829.

Borgfeldt, George, & Co., New York, N. Y. Pyroxylin compound of a celluloid type. No. 131,963; June 8; v. 275; p. 413.

Borgfeldt, George, & Co., New York, N. Y. Toilet powders. No. 132,302; June 22; v. 275; p. 815.

Borgfelt, George, & Co., New York, N. Y. Table and fancy glassware. No. 133,104; July 13; v. 276; p. 401.

Borgfeldt, George, & Co., New York, N. Y. Women's, misses', children's, and infants' felt shoes and slippers. No. 133,216; July 20; v. 276; p. 589.

Borgfeldt, George, & Co., New York, N. Y. Kimonos. No. 134,600; Sept. 14; v. 278; p 354.

Borgfeldt, George, & Co., New York, N. Y. Soap. No. 135,199; Sept. 28; v. 278; p. 701.

Borgfeldt, George & Co., New York, N. Y. Pearl buttons for wearing-apparel. No. 136,332; Nov. 2; v. 280; p. 178.

Born, T., & Son, Hampton, Va. Ready-mixed paints, varnishes, &c. No. 137,957; Dec. 14; v. 281; p. 396.

Bosak Manufacturing Co., Scranton, Pa. Reconstructive tonic. Nos. 132,303–5; June 22; v. 175; pp. 815–16.

Bosch Brewing Company, Lake Linden, Mich. Non-alcoholic malt beverage. No. 137,560; Nov. 30; v. 280; p. 996.

Bosch, Herman J., New York, N. Y. Nail-polish, brilliantine, and cuticle-cream. No. 131,418; May 18; v. 274; p. 601.

Boston Auto Gage Company, Boston, Mass. Lubricating and grease guns. No. 130,648; May 4; v. 274; p. 182.

Boston Belting Company, Boston, Mass. Roller-covers. No. 137,561; Nov. 30; v. 280; p. 996.

Boston Belting Company, Boston, Mass. Belting, hose, and packing. No. 138,426; Dec. 28; v. 281; p. 781.

Boston Belting Corporation, Boston, Mass. Mechanical rubber goods. No. 138,220; Dec. 21; v. 281; p. 563.

Boston Blacking Co., Cambridge, Mass. Automobile-soap. No. 129,627; Mar. 9; v. 272; p. 360.

Boston Duck Company, Palmer, Mass. Cotton piece goods. No. 129,432; Feb. 24; v. 271; p. 677.

Boston Food Products Company, East Boston, Mass. Canned meats, soup, sauces, sausages, &c. No. 130,649; May 4; v. 274; p. 182.

Boston Varnish Co., Everett, Mass. Paints and enamels for wood, metal, &c. No. 129,333; Feb. 17; v. 271; p. 507.

Boston Wire Stitcher Company, East Greenwich, R. I. Wire stitching or stapling machines and parts thereof. No. 135,920; Oct. 26; v. 279; p. 716.

Boultbee, George C., Rochester, N. Y. Non-alcoholic noncereal maltless flavoring compounds for soft drinks. No. 136,760; Nov. 9; v. 280; p. 377.

Bourjois, A., & Co., Inc., New York, N. Y. Tooth, nail, hair, bath, and face brushes. No. 130,650; May 4; v. 274; p. 182.

Bourjois, A., & Co., Inc., New York, N. Y. Tooth, nail, hair, bath, and face brushes. No. 132,899; July 6; v. 276; p. 199.

Bourn Rubber Co., Providence, R. I. Rubber boots and shoes. No. 135,613; Oct. 19; v. 279; p. 526.

Boutwell Fairclough & Gold Inc., now by change of name Fairclough & Gold, Inc., Boston, Mass. Scrim. No. 135,400; Oct. 12; v. 279; p. 341.

Bowden Wire Limited, Willesden Junction, London, England. Hardware and plumbing and steam-fitting supplies. No. 133,588; Aug. 3; v. 277; p. 170.

Bowdidge, Thomas H., Boston, Mass. Candy. No. 137,958; Dec. 14; v. 281; p. 396.

Bowers, Otho D., Richmond, Ind. Spark-plugs. No. 128,638; Jan. 13; v. 270; p. 336.

Bowles, Lynn L., Franconia, N. H. Maple-sugar. No. 134,220; Aug. 24; v. 277; p. 777.

Bowman, Allan K., Wilkinsburg, Pa. Cleaning compound—namely, wall-paper cleaner. No. 133,913; Aug. 10; v. 277; p. 385.

Bowman-Moore Hat Company, Knoxville, Tenn. Hats and caps. No. 138,221; Dec. 21; v. 281; p. 563.

Bowman-Moore Hat Company, Knoxville, Tenn. Caps and hats for men and boys. No. 138,222; Dec. 21; v. 281; p. 563.

Bowman Overall Co., The, Knoxville, Tenn. Overalls, overall-jumpers, work-pants, and work-shirts. No. 135,401; Oct. 12; v. 279; p. 341.

Bowman, W. P., Leeds, England. Sauce for fish, game, &c. No. 128,943; Jan. 20; v. 270; p. 472.

Boyce Extract Co., Inc., New York, N. Y. Non-intoxicating beverage. No. 131,419; May 18; v. 274; p. 601.

Boyd Manufacturing Company, Inc., The, Birmingham, Alabama. Face-creams, talcum powders, perfumes, &c. No. 136,761; Nov. 9; v. 280; p. 378.

Boyd Milling Company, Sharpsville, Pa. Wheat-flour. No. 136,762; Nov. 9; v. 280; p. 378.

Boyden Shoe Manufacturing Company, Newark, N. J. Shoes of leather, leather and fabric, and rubber and fabric. No. 131,712; May 25; v. 274; p. 830.

Boyle, John, & Company, New York, N. Y. Waterproofed cotton-duck cloth. No. 137,080; Nov. 16; v. 280; p. 586.

Boysen, Iwer, New York, N. Y. Photographic retouching-screens. No. 133,589; Aug. 3; v. 277; p. 170.

Brach, E. J., and Sons, Chicago, Ill. Candies. No. 131,287; May 11; v. 274; p. 399.

Brackett, Ernest R., Dallas, Tex. Automobile-lenses. No. 131,044; May 4; v. 274; p. 194.

Bradford, Albert S., Placentia, Calif. Fresh citrus fruits. No. 128,944; Jan. 20; v. 270; p. 472.

Bradley, Milton, Company, Springfield, Miss. Games of jack-straws. No. 128,945; Jan. 20; v. 270; p. 472.

Bradley, Milton, Company, Springfield, Mass. Games of jackstraws. No. 131,045; May 4; v. 274; p. 194.

Bradley, Milton, Company, Springfield, Mass. Water-color paints. No. 137,126; Nov. 23; v. 280; p. 790.

Bradley & Vrooman Company, Chicago, Ill. Germicide. No. 128,640; Jan. 13; v. 270; p. 336.

Bradley, Willis C., Marshfield, Oreg. Medicinal preparation for the treatment of catarrh, &c. No. 128,639; Jan. 13; v. 270; p. 336.
Braided Fabric Co., The, Providence, R. I. Elastic and non-elastic braids. No. 135,402; Oct. 12; v. 279; p. 341.
Brainol Manufacturing Co., Jacksonville, Fla. Non-alcoholic non-cereal maltless beverage and syrup for making same. No. 130,043; Apr. 6; v. 273; p. 179.
Brame Drug Company, Inc., North Wilkesboro, N. C. Salve for influenza, summer-colds, catarrh, &c. No. 135,200; Sept. 28; v. 278; p. 701.
Bramore Cigar Co., Boston, Mass. Cigars. No. 136,333; Nov. 2; v. 280; p. 178.
Brand & Oppenheimer, New York, N. Y. Linings in the piece. No. 137,127; Nov. 23; v. 280; p. 790.
Brand & Oppenheimer, New York, N. Y. Cotton cloths in the piece. No. 138,423; Dec. 28; v. 281; p. 781.
Brandes, Diedrich H., New York, N. Y. Paints and varnishes. No. 134,601; Sept. 14; v. 278; p. 354.
Brandon, Arthur H., & Co., Toledo, Ohio. Fishing-tools for wells. No. 134,154; Aug. 17; v. 277; p. 581.
Brandquist, Eric W., New York, N. Y. Spark-plugs for internal-combustion engines. No. 130,466; Apr. 27; v. 273; p. 801.
Brandram-Henderson Limited, Montreal, Quebec, Canada. Dry, paste, and mixed paints, etc. No. 137,959; Dec. 14; v. 281; p. 396.
Branford Electric Company, New York, N. Y. Cupronickel alloys. No. 137,017; Nov. 16; v. 280; p. 583.
Branford Electric Company, New York, N. Y. Ferronickel alloys. No. 137,018; Nov. 16; v. 280; p. 583.
Brauer Bros. Shoe Company, St. Louis, Mo. Shoes of leather, cloth, or canvas. No. 130,266; Apr. 20; v. 273; p. 619.
Braun, Emil, New York, N. Y. Doughnuts and cakes. No. 133,914; Aug. 10; v. 277; p. 385.
Braun, John, & Sons, assignors to Pennsylvania Lawn Mower Works, Philadelphia, Pa. Lawn-mowers. Nos. 131,046–52; May 4; v. 274; p. 194.
Braunberg, Max, Brooklyn, N. Y. Hair-restorer. No. 132,306; June 22; v. 275; p. 816.
Bray Pictures Corporation, The, New York, N. Y. Moving-picture films showing animated drawings issued serially. No. 133,217; July 20; v. 276; p. 589.
Bray Picture Corporation, The, New York, N. Y. Moving-picture films. No. 133,218; July 20; v. 276; p. 589.
Bray Pictures Corporation, The, New York, N. Y. Moving-picture films. No. 134,221; Aug. 24; v. 277; p. 777.
Breakstone Bros., Inc., Walton and New York, N. Y. Condensed milk. No. 130,467; Apr. 27; v. 273; p. 801.
Brecht Candy Company, The, Denver, Colo. Chocolates. No. 130,651; May 4; v. 274; p. 182.
Brecht Candy Company, The, Denver, Colo. Chocolates. Nos. 131,053–5; May 4; v. 274; p. 194.
Brecht Candy Co., The, Denver, Colo. Candies. No. 135,921; Oct. 26; v. 279; p. 716.
Brecht Candy Co., The, Denver, Colo. Candies. No. 136,763; Nov. 9; v. 280; p. 378.
Breen, John P., Great Falls, Mont. Lubricating oils and greases. No. 133,590; Aug. 3; v. 277; p. 176.
Brémont, Joseph, New York, N. Y. Medicinal preparations for venereal diseases. No. 138,223; Dec. 21; v. 281; p. 563.
Brenard Manufacturing Company, Iowa City, Iowa. Phonographic machines. No. 136,334; Nov. 2; v. 280; p. 178.
Brener, J., Co., Boston, Mass. Ladies' petticoats. No. 128,641; Jan. 13; v. 270; p. 336.
Brewer, Bert B., New York, N. Y. Women's hats. No. 134,896; Sept. 21; v. 278; p. 529.
Brewster-Goldsmith Corp. Inc., The, New York, N. Y. Spark-plugs. No. 131,420; May 18; v. 274; p. 601.
Brewster-Goldsmith Corp., Inc., The, New York, N. Y. Spark-plugs. No. 131,713; May 25; v. 274; p. 830.
Brewster-Goldsmith Corporation, Inc., New York, N. Y. Spark-plugs. No. 133,219; July 20; v. 276; p. 589.
Brewster, William, Company, Inc., New York, N. Y. Drill-sleeves and drill-sockets. No. 137,128; Nov. 23; v. 280; p. 790.
Bricker, E. J., Minneapolis, Minn. Medicinal compound. No. 135,614; Oct. 19; v. 279; p. 526.
Bridgeport Brass Company, Bridgeport, Conn. Automobile and bicycle tire pumps. No. 129,266; Feb. 10; v. 271; p. 355.
Bridgeport Brass Company, Bridgeport, Conn. Copper, brass, and bronze ingots, rods, sheets, &c. No. 130,468; Apr. 27; v. 273; p. 801.
Bridgeport Brass Company, Bridgeport, Conn. Copper, brass, and bronze ingots, rods, sheets, &c. No. 131,056; May 4; v. 274; p. 195.
Bridgeport Brass Company, Bridgeport, Conn. Bronze ingots, castings, rods, &c. No. 131,421; May 18; v. 274; p. 602.
Bridgman, Roy W., San Jose, Calif. Perspiration-counteractor. No. 132,307; June 22; v. 275; p. 816.
Briggs, Andrew G., Richmond, Va. Waxy preparation for polishing automobiles, furniture, and stained and hardwood floors. No. 134,602; Sept. 14; v. 278; p. 354.
Briggs, Z. T., Photographic Supply Co., The, Kansas City, Mo. Photographic prints. No. 137,129; Nov. 23; v. 280; p. 490.
Brigham-Hopkins Company, Baltimore, Md. Men's hats. No. 128,648; Jan. 13; v. 270; p. 336.
Bright Star Battery Company, New York, N. Y. Electric batteries and flash-lights, and flash-light cases. No. 133,591; Aug. 3; v. 277; p. 170.
Brighton Shirt Co., New York, N. Y. Men's and boys' dress-negligées and work-shirts. No. 130,267; Apr. 20; v. 273; p. 619.
Brill, J. G., Company, The, Philadelphia, Pa. Cars and car-trucks. No. 135,201; Sept. 28; v. 278; p. 701.
Brinker, Frederick F., Peoria, Ill. Canned adhesive rubber. No. 134,222; Aug. 24; v. 277; p. 777.
Brinser's, S. C., Sons, Middletown, Pa. Cornmeal. No. 138,534; Dec. 28; v. 281; p. 785.
Brintnall, Leslie C., Los Angeles, Calif. Dolls. No. 130,652; May 4; v. 274; p. 182.
Brinton, Willard C., New York, N. Y. Electric trucks and accessories. No. 131,964; June 8; v. 275; p. 413.
Brisk, Samuel, Springfield, Mass. Metal-polish. No. 138,169; Dec. 14; v. 281; p. 403.
Briskman, Samuel, New York, N. Y. Silk goods in the piece. No. 129,628; Mar. 9; v. 272; p. 360.
Bristol-Myers Company, Brooklyn, N. Y. Saline laxatives, uric-acid solvents, &c. No. 129,433; Feb. 24; v. 271; p. 677.
Bristol-Myers Company, New York, N. Y. Digestants and medicinal preparations for treatment of dyspepsia or similar diseases. No. 132,308; June 22; v. 275; p. 816.
British-American Tobacco Company Limited, London, England. Cigarettes. No. 134,603; Sept. 14; v. 278; p. 354.
Britton, Coozie, Higginsville, Mo. Sets of cards for playing games. No. 135,202; Sept. 28; v. 278; p. 701.
Britton, Cutnore, Tampa, Fla. Blood-purifier. No. 128,314; Jan. 6; v. 270; p. 178.
Britton Publishing Company, Incorporated, New York, N. Y. Series of books for boys. No. 129,629; Mar. 9; v. 272; p. 360.
Brockway-Smith Corporation, Boston, Mass. Construction materials. No. 130,469; Apr. 27; v. 273; p. 801.
Brockway-Smith Corporation, The, Boston, Mass. Paint in liquid or paste form. No. 137,564; Nov. 30; v. 280; p. 996.
Broderick, Edward G., New York, N. Y. Cleansing-soda. No. 138,427; Dec. 28; v. 281; p. 781.
Brohard, Georgie M., Philadelphia, Pa. Rouge. No. 128,643; Jan. 13; v. 270; p. 336.
Brokaw-Eden Manufacturing Company, Alton, Ill. Laundry appliances and machines. No. 133,592; Aug. 3; v. 277; p. 170.
Brokman, Leon E., New York, N. Y. Receptacles for holding strip-tickets. No. 137,130; Nov. 23; v. 280; p. 790.
Bromley-Merseles Mfg. Co., New York, N. Y. Dish-washing machines and metal-parts-washing machines. No. 134,207; Aug. 17; v. 277; p. 582.
Brooklyn Shield & Rubber Co., Brooklyn, N. Y. Women's dress-shields. No. 128,644; Jan. 13; v. 270; p. 336.
Brooklyn Shield & Rubber Company, Brooklyn, N. Y. Aprons. No. 134,604; Sept. 14; v. 278; p. 354.
Brooks Bank Note Company, Springfield, Mass. Bond-paper and mailing-envelops. No. 129,630; Mar. 9; v. 272; p. 360.
Brooks Co., The, Fort Scott, Kans. Poultry food. No. 138,535; Dec. 28; v. 281; p. 785.
Brooks Company, The, Fort Scott, Kans. Poultry feed for egg production. No. 136,335; Nov. 2; v. 280; p. 178.
Brooks, D. E., & Co., Newburgh, N. Y. Foods. No. 128,316; Aug. 19; v. 270; p. 178.
Brooks, Roy E., Albemarle, N. C. Corn remedy. No. 129,631; Mar. 9; v. 272; p. 360.
Brooks Tomato Products Company, Collinsville, Ill. Tabasco-flavor catsup. No. 128,946; Jan. 20; v. 270; p. 472.
Brophy, Patrick F., Norwalk, Conn. Cleanser for all household cleaning purposes. No. 133,362; July 27; v. 276; p. 767.
Brown, Bertrand, New York, N. Y. Sheet-music. No. 136,325; Nov. 2; v. 280; p. 178.
Brown Brothers Company, Gainesville, Fla.; New York, N. Y., and Memphis, Tenn. Lumber stock material. No. 130,157; Apr. 13; v. 273; p. 401.
Brown, Charles H., Paint Company, The, Brooklyn, N. Y. Prepared calcimine, cold-water, oil, and enamel paints and varnishes. No. 131,714; May 25; v. 274; p. 830.
Brown Chemical Co. The, St. Louis, Mo. Food-flavoring cream and nutmeg. No. 132,900; July 6; v. 276; p. 199.
Brown Chemical Co., The, St. Louis, Mo. Toilet preparations. No. 136,336; Nov. 2; v. 280; p. 178.
Brown Company, Portland, Me. Paper products, and particularly bond or other writing or print paper. No. 133,915; Aug. 10; v. 277; p. 385.
Brown Company, Portland, Me. Wrapping-paper. Nos. 135,615–6; Oct. 19; v. 279; p. 526.
Brown, E., & Son (Blacking & Boot Polish Manufacturers) Limited, London, England. Polishes for leather and enameled goods. No. 134,897; Sept. 21; v. 278; p. 530.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Brown, Fred W., Columbus, Ohio. Monthly publication for advertising purposes. No. 133,363; July 27; v. 276; p. 767.

Brown, Fred W., Columbus, Ohio. Monthly publication for advertising purposes. No. 133,364; July 27; v. 276; p. 767.

Brown, George A., Co., Kansas City, Mo. Medicine for certain diseases. No. 129,265; Feb. 10; v. 271; p. 355.

Brown, George A., Stevens Point, Wis. Hens' nests. No. 137,565; Nov. 30; v. 280; p. 996.

Brown, George M., Fond du Lac, Wis. Medicinal treatment of rupture. No. 129,267; Feb. 10; v. 271; p. 355.

Brown Instrument Company, The, Philadelphia, Pa. Protecting-tubes for pyrometers. No. 129,129; Jan. 27; v. 270; p. 613.

Brown Instrument Company, The, Philadelphia, Pa. Protecting-tubes for pyrometers. No. 130,653; May 4; v. 274; p. 182.

Brown, James S., Chicago, Ill. Electrically-operated traffic-signals for vehicles. No. 130,268; Apr. 20; v. 273; p. 619.

Brown, John W., Fort Wayne, Ind. Nebulizers for hydrocarbon-engines. No. 135,923; Oct. 26; v. 279; p. 716.

Brown, L. L., Paper Company, Adams, Mass. Paper. No. 128,318; Jan. 6; v. 270; p. 178.

Brown, L. L., Paper Company, Adams, Mass. Writing-paper. No. 129,953; Mar. 9; v. 272; p. 370.

Brown, L. L., Paper Company, Adams, Mass. Ledger, record, linen, bond, and writing papers. No. 130,654; May 4; v. 274; p. 182.

Brown, Paul R., Yonkers, N. Y. Babbitt metal and antifriction metals. No. 135,203; Sept. 28; v. 278; p. 701.

Brown Portable Conveying Machinery Co., Chicago, Ill. Tiering-machines. No. 130,158; Apr. 13; v. 273; p. 401.

Brown and Singerman Inc., New York, N. Y. Petticoats and bloomers. No. 133,593; Aug. 3; v. 277; p. 170.

Brown Shoe Company Inc., St. Louis, Mo. Children's shoes. No. 138,224; Dec. 21; v. 281; p. 563.

Brown, Thomas, & Co. (Leicester) Limited, Leicester, England. Ladies' boots, shoes, and slippers. No. 135,924; Oct. 26; v. 279; p. 716.

Brown, Thomas, & Co. (Leicester) Limited, Leicester, England. Boots and shoes. No. 135,925; Oct. 26; v. 279; p. 716.

Brown, Thomas & Co. (Leicester) Limited, Leicester, England. Ladies' boots, shoes, and slippers. No. 137,132; Nov. 23; v. 280; p. 790.

Brown, Thomas E., Philadelphia, Pa. Hosiery. No. 130,269; Apr. 20; v. 273; p. 619.

Brown-Wales Company, Boston, Mass. Slate-surface asphalt shingles, &c. No. 129,268; Feb. 10; v. 271; p. 355.

Brown & Zortman Machinery Co., Pittsburgh, Pa. Machinery and tools and parts thereof. No. 133,594; Aug. 3; v. 277; p. 170.

Browne, Geo. C., Elmira, N. Y. Salted peanuts, peanut-butter, coffee, tea, cocoa. No. 134,223; Aug. 24; v. 277; p. 777.

Browne, Henry V., Tonkawa, Okla. Tractor-cabs. No. 128,128; Jan. 27; v. 270; p. 613.

Browne, Waldo R., Wyoming, N. Y. Article of confectionery consisting of honey nougat. No. 133,916; Aug. 10; v. 277; p. 385.

Brownell & Company, Moodus, Conn. Maitre-cord. No. 132,901; July 6; v. 276; p. 199.

Brownell, William M., New York, N. Y. Cooking-syrup for confectioners and bakers. No. 130,270; Apr. 20; v. 273; p. 619.

Browning, C. A., Co., Boston, Mass. Millinery. No. 130,655; May 4; v. 274; p. 183.

Browning, P. W., Washington, D. C. Coffee. No. 135,926; Oct. 26; v. 279; p. 716.

Browning, Perry W., Washington, D. C. Coffee. No. 136,337; Nov. 2; v. 280; p. 178.

Browning, Perry W., Washington, D. C. Coffee. No. 137,133; Nov. 23; v. 280; p. 790.

Browning & Sanders, Springfield, Mo. Trading-stamps. No. 136,764; Nov. 9; v. 280; p. 378.

Brown's Tooth Powder Company, San Francisco, Calif. Medicinal preparation to be used as a dentifrice. No. 132,309; June 22; v. 275; p. 816.

Brownson, R., & Company, Hastings, Minn. Nose-guards for animals, particularly horses. No. 133,595; Aug. 3; v. 277; p. 170.

Brownstein-Louis Company, Los Angeles, Calif. Men's dress, &c., shirts. No. 130,656; May 4; v. 274; p. 183.

Brownstein-Louis Company, Los Angeles, Calif. Overalls. No. 130,658; May 4; v. 274; p. 183.

Brownstein-Louis Company, Los Angeles, Calif. Monthly magazine. No. 135,204; Sept. 28; v. 278; p. 701.

Brubaker, W. L., & Bros, Millersburg, Pa. Staybolt-taps. No. 133,220; July 20; v. 276; p. 589.

Bruning, William H., Evansville, Ind. Ground coffee and coffee in the bean. No. 138,170; Dec. 14; v. 281; p. 403.

Bruns, Armin R., Washington, Iowa. Field, garden, and flower seeds. No. 130,623; May 4; v. 274; p. 182.

Brunswick-Balke-Collender Company, The, Wilmington, Del., and Chicago, Ill. Billiard and pocket-billiard balls. No. 130,044; Apr. 6; v. 273; p. 179.

Brunswick-Balke-Collender Company, The, Wilmington, Del., and Chicago, Ill. Phonograph-records. No. 132,631; June 29; v. 275; p. 1014.

Brunswick-Balke-Collender Company, The, Wilmington, Del., and Chicago, Ill. Bowling-balls. No. 132,902; July 6; v. 276; p. 200.

Bryant, Augustus H., Glen Ridge, N. J. Edge tools—viz., razors. No. 130,661; May 4; v. 274; p. 183.

Bryant Chucking Grinder Company, Springfield, Vt. Metal-working grinding-machines. No. 137,770; Dec. 7; v. 281; p. 195.

Bublitz & Hammond, Nashua, Iowa. Metal-polish. No. 133,596; Aug. 3; v. 277; p. 170.

Buchanan, W. D., Co., Greenville, Ohio. Chocolate candy. No. 135,617; Oct. 19; v. 279; p. 526.

Buchanan, W. D., Co., The, Greenville, Ohio. Chocolate candy. No. 135,618; Oct. 19; v. 279; p. 526.

Buchanan, W. D., Co., The, Greenville, Ohio. Candy. No. 137,566; Nov. 30; v. 280; p. 996.

Buchanan, Walter D., Greenville, Ohio. Candy. No. 133,917; Aug. 10; v. 277; p. 386.

Buchtel, Robert E., Omaha, Nebr. Insecticide. No. 131,715; May 25; v. 274; p. 830.

Buckeye Brewing Co., Toledo, Ohio. Non-intoxicating malt beverage. No. 130,159; Apr. 13; v. 273; p. 401.

Buckeye Cotton Oil Company, The, Cincinnati, Ohio. Dairy, stock, cattle, &c., food. No. 135,927; Oct. 26; v. 279; p. 716.

Buckeye Cotton Oil Company, The, Cincinnati, Ohio. Poultry food. No. 135,928; Oct. 26; v. 279; p. 716.

Buckeye Cotton Oil Company, The, Cincinnati, Ohio. Poultry food. No. 136,338; Nov. 2; v. 280; p. 178.

Buckeye Cotton Oil Company, The, Cincinnati, Ohio. Dairy, stock, &c., food. No. 136,339; Nov. 2; v. 280; p. 178.

Buckeye Incubator Company, The, Springfield, Ohio. Incubators and brooders for chicks. No. 137,960; Dec. 14; v. 281; p. 396.

Buckeye Nurseries, Tampa, Winterhaven, Lucerne Park, and Howey, Fla. Fresh oranges. No. 130,853; May 4; v. 274; p. 188.

Buckeye Producing Co., The, Toledo, Ohio. Ginger-ale, root-beer, and cider. No. 135,619; Oct. 19; v. 279; p. 526.

Buckeye Producing Co., The, Toledo, Ohio. Fruit butter, peanut-butter, jams, and jellies. No. 135,929; Oct. 26; v. 279; p. 716.

Buckramite Mfg. Co., Brooklyn, N. Y. Paper chemically prepared to disintegrate with moderate heat. No. 129,632; Mar. 9; v. 272; p. 360.

Bucyrus Company, South Milwaukee, Wis. Special steel castings and forgings. No. 135,403; Oct. 12; v. 279; p. 341.

Buda Company, Chicago, Ill. Railway hand-cars. No. 130,045; Apr. 6; v. 273; p. 179.

Buda Company, The, Harvey, Ill. Gasolene-engines, lifting-jacks, track and bonding drills, &c. No. 133,597; Aug. 3; v. 277; p. 170.

Buehler, Herbert J., Newark, N. J. Prepared pudding. No. 133,918; Aug. 10; v. 277; p. 386.

Buell, George C., & Company, Rochester, N. Y. Tea. No. 128,319; Jan. 6; v. 270; p. 178.

Buettner, Charles H., Cincinnati, Ohio. Automobile-fan and fabric belts, hose, packing. No. 133,598; Aug. 3; v. 277; p. 170.

Buffalo Brewing Company, Sacramento, Calif. Non-alcoholic malt beverage. No. 132,632; June 29; v. 275; p. 1014.

Buffalo House Wrecking & Salvage Co., Buffalo, N. Y. Ready-mixed paints and varnishes. No. 132,100; June 15; v. 275; p. 615.

Buffalo Wall Board Company, Inc., Buffalo, N. Y. Wallboard and building-paper. No. 135,205; Sept. 28; v. 278; p. 701.

Bugler & Goebel Company, Chicago, Ill. An edible composition for use as an ingredient of candies. No. 136,340; Nov. 2; v. 280; p. 178.

Bull, Arthur W., Ardmore, Pa. Cream-whip. No. 137,134; Nov. 23; v. 280; p. 790.

Bullard Machine Tool Co., The, Bridgeport, Conn. Machine-tools. No. 135,404; Oct. 12; v. 279; p. 342.

Bullard Machine Tool Co., The, Bridgeport, Conn. Cutting-tools for metal-working machines. No. 137,961; Dec. 14; v. 281; p. 396.

Bullen, Joseph W., Folcroft, Pa. Disinfectant. Nos. 128,947–8; Jan. 20; v. 270; p. 472.

Bullen, Joseph W., Folcroft, Pa. Wax polishing-oil. No. 129,334; Feb. 17; v. 271; p. 507.

Bullen, Joseph W., Folcroft, Pa. Furniture-polish. No. 129,335; Feb. 17; v. 271; p. 507.

Bullen, Joseph W., Folcroft, Pa. Liquid compounds which are used for disinfectant purposes. No. 129,434; Feb. 24; v. 271; p. 677.

Bullen, Joseph W., Folcroft, Pa. Cleansing and polishing compounds. No. 129,633; Mar. 9; v. 272; p. 361.

Bullen, Joseph W., Folcroft, Pa. Liquid compounds used as floor-oils. No. 131,716; May 25; v. 274; p. 830.

Bulova-Henshel Co., New York, N. Y. Artificial pearls. No. 133,919; Aug. 10; v. 277; p. 386.

Bulova-Henshel Company, New York, N. Y. Artificial pearls. No. 135,620; Oct. 19; v. 279; p. 526.

Bulova, J., Company, New York, N. Y. Watches for men and ladies. Nos. 132,903–6; July 6; v. 276; p. 200.

Bump Confectionery Co., Anna, Ill. Non-alcoholic beverages and syrups for making same. No. 133,920; Aug. 10; v. 277; p. 386.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Burch, Mrs. Daisy, Indianapolis, Ind. Hair-grower. No. 133,599; Aug. 3; v. 277; p. 170.
Burch Plow Works Company, The, Crestline, Ohio. Agricultural implements. No. 133,600; Aug. 3; v. 277; p. 170.
Burch, Thaddeus A., Baltimore, Md. Lubricating oils and greases. No. 133,601; Aug. 3; v. 277; p. 170.
Burckett, Maxwell K., Newark, N. J. Monthly magazine. No. 133,365; July 27; v. 276; p. 767.
Burgan, Robert J., New York, N. Y. Paper patterns for making men's clothes. No. 134,224; Aug. 24; v. 277; p. 777.
Burger, Iwan, New York, N. Y. Foods and ingredients of foods. No. 130,160; Apr. 13; v. 273 p. 401.
Burger, Iwan, Inc., New York, N. Y. Foods and ingredients of foods. No. 131,057; May 4; v. 274; p. 195.
Burger, Iwan, New York, N. Y. Canned fish, fruits, and vegetables, cheese, &c. No. 133,602; Aug. 3; v. 277; p. 170.
Burger, Iwan, Inc., New York, N. Y. Herring, mackerel, salmon, tuna, &c. Nos. 133,921–2; Aug. 10; v. 277; p. 386.
Burgess Battery Company, Madison, Wis. Electric batteries. No. 134,605; Sept. 14; v. 278; p. 354.
Burgess, Frank, Atlantic, Mass. Gears and gearing. No. 136,717; Nov. 2; v. 280; p. 191.
Burke, Alfred W., Lowell, Mass. Repair-links for chains. No. 130,271; Apr. 20; v. 273; p. 619.
Burke, Edward W., Lynn, Mass. Shaving-cream. No. 138,428; Dec. 28; v. 281; p. 781.
Burlasky, Louis, New York, N. Y. Sewing-machines and parts thereof. No. 131,288; May 11; v. 274; p. 399.
Burley Feed Manufacturing Company, Burley, Idaho. Feed for live stock and poultry. No. 135,621; Oct. 19; v. 279; p. 526.
Burnet Company, The, New York, N. Y. Electric cargo-lights, lamps, ship's lamps and lanterns. No. 135,930; Oct. 26; v. 279; p. 716.
Burnett-Larsh Manufacturing Company, The, Dayton, Ohio. Explosive-engines and parts therefor. No. 133,221; July 20; v. 276; p. 589.
Burnett-Larsh Manufacturing Company, Dayton, Ohio. Pneumatic-pressure systems for pumping, &c., water or other fluids. No. 135,931; Oct. 26; v. 279; p. 716.
Burnham, Edward, Chicago, Ill. Manicuring-oil, nail-polish, and finger-nail polish. No. 132,310; June 22; v. 275; p. 816.
Burnham, Edward, Chicago, Ill. Perfume, toilet-water, rouge, and face-powder. No. 132,311; June 22; v. 275; p. 816.
Burnham-Munger-Root Dry Goods Co., Kansas City, Mo. All-wool blankets, all-cotton blankets, covered bed-comforts, &c. No. 132,101; June 15; v. 275; p. 615.
Burnham, Ralph F., Auburn, Me. Antiseptic alkaline solution for treating inflamed conditions of the nose, throat, and mouth. No. 135,622; Oct. 19; v. 279; p. 526.
Burns, Jabez, & Sons, New York, N. Y. Machinery and parts thereof. No. 134,160; Aug. 17; v. 277; p. 581.
Burns, Stanley, Montreal, Quebec, Canada. Tooth powder and paste. No. 136,841; Nov. 2; v. 280; p. 179.
Burns, William S., Grand Rapids, Mich. Laundry soap. No. 128,320; Jan. 6; v. 270; p. 178.
Burr Oak Belting Company, The, Cincinnati, Ohio. Leather belting. No. 136,342; Nov. 2; v. 280; p. 179.
Bursley, G. E., & Company, Fort Wayne, Ind. Foods. No. 135,932; Oct. 26; v. 279; p. 716.
Bursley, G. E., & Company, Fort Wayne, Ind. Coffee. No. 136,343; Nov. 2; v. 280; p. 179.
Burt Olney Canning Company, The, Oneida, N. Y. Condensed and evaporated milk. No. 132,766; June 29; v. 275; p. 1018.
Burton Bros. & Co., New York, N. Y. Cotton piece goods. No. 129,634; Mar. 9; v. 272; p. 361.
Burton Bros. & Co., New York, N. Y. Voile. No. 130,272; Apr. 20; v. 273; p. 619.
Burton Bros. & Co., New York, N. Y. Napped cotton shirting. No. 131,717; May 25; v. 274; p. 880.
Burton Brothers, Chicago, Ill. Non-alcoholic, non-cereal, maltless beverages and syrups for making the same, colors and flavors in preparation thereof. No. 133,366; July 27; v. 276; p. 767.
Burton, Frederick D., New York, N. Y. Incense. No. 128,321; Jan. 6; v. 270; p. 178.
Burton, Mary M., Los Angeles, Calif. Frosted nuts. No. 137,771; Dec. 7; v. 281; p. 195.
Burton, Oliver M., Chicago, Ill. Toys. No. 133,105; July 13; v. 276; p. 401.
Burwell & Dunn Co., Charlotte, N. C. Antiseptic demulcent corrective for intestinal disorders. No. 132,312; June 22; v. 275; p. 816.
Burwell & Dunn Co., Charlotte, N. C. Malarial remedy and tonic. No. 132,313; June 22; v. 275; p. 816.
Bury Compressor Company, Erie, Pa. Compressor-valves. No. 133,106; July 13; v. 276; p. 401.
Burt, John U., Inc., New York, N. Y. Umbrellas. No. 135,206; Sept. 28; v. 278; p. 701.
Buscaglia, A. & C. Co., Buffalo, N. Y. Canned tomatoes, tomato paste, and olive-oil. No. 129,435; Feb. 24; v. 271; p. 877.
Busath's Candy Shop, Inc., Louisville, Ky. Candy. No. 136,765; Nov. 9; v. 280; p. 378
Busby Glove Co., Oakland, Calif. Gloves and mittens of leather. No. 136,344; Nov. 2; v. 280; p. 179.
Buscaglia, A. & C., Co., Buffalo, N. Y. Olive-oil and tomato paste. No. 130,662; May 4; v. 274; p. 183.
Buschmann, August & Sons Inc., Indianapolis, Ind. Hardware and plumbing, &c. No. 136,766; Nov. 9; v. 280; p. 378.
Bussman Manufacturing Company, St. Louis, Mo. Electric fuses and cut-outs. No. 132,907; July 6; v. 276; p. 200.
Bussmann Manufacturing Company, St. Louis, Mo. Electric fuses and cut-outs. No. 135,207; Sept. 28; v. 278; p. 701.
Buster Manufacturing Company, Pittsburgh, Pa. Toy velocipedes. No. 132,633; June 29; v. 275; p. 1014.
Butler, Charles A., Toledo, Ohio. Chemical carbon-preventive or gas-intensifier for hydrocarbon liquid fuels. Nos. 132,314–15; June 22; v. 275; p. 816.
Butler, Leon E., Chicago, Ill. Toy molds and molding-wax for same. No. 133,367; July 27; v. 276; p. 767.
Butterick Publishing Company, The. New York, N. Y. Weekly periodical or magazine. No. 133,368; July 27; v. 276; p. 767.
Buxton Garment Mfg. Co. Inc., Nashua, N. H. Overalls, sack and grocers' coats, work-aprons, trousers, and work-shirts. No. 135,405; Oct. 12; v. 279; p. 342.
Buzza Company, The, Minneapolis, Minn. Hand-illuminated and printed greeting-cards, &c. No. 129,635; Mar. 9; v. 272; p. 361.
Byers, John F., Machine Company, The, Ravenna, Ohio. Portable hoisting-derricks. No. 130,161; Apr. 13; v. 273; p. 401.
Byrne, Joseph F., Omaha, Nebr. Hosiery for women. Nos. 131,058–9; May 4; v. 274; p. 195.
Byron Weston Co., Dalton, Mass. Writing-paper. No. 128,949; Jan. 20; v. 270; p. 472.
Byron Weston Co., Dalton, Mass. Machine-bookkeeping paper. No. 130,990; May 4; v. 274; p. 192.
Byrum, F. R., & Company, Chicago, Ill. Candy. No. 136,345; Nov. 2; v. 280; p. 179.
C. A. Willey Company, Long Island City, N. Y. Lacquer for furniture and household goods. No. 132,593; June 22; v. 275; p. 825.
C and E Shoe Company, The, Columbus, Ohio. Leather shoes. No. 129,130; Jan. 27; v. 270; p. 613.
C and E Shoe Company, Columbus, Ohio. Leather shoes. No. 129,398; Feb. 17; v. 271; p. 509.
C. & K. Mfg. Co., The, New Haven, Conn. Powder-puffs. No. 132,316; June 22; v. 275; p. 816.
Cable Company, The, Chicago, Ill. Pianos, player-pianos, and parts thereof. Nos. 135,406–7; Oct. 12; v. 279; p. 342.
Cable Draper Baking Co., Detroit, Mich. Bread. No. 128,322; Jan. 6; v. 270; p. 178.
Cacciatore, Leonardo, New York, N. Y. Medicine for diseases of the eye. No. 132,317; June 22; v. 275; p. 816.
Cadwallader, Harry, Jr., Philadelphia, Pa. Steel forgings and castings. No. 128,645; Jan. 13; v. 270; p. 356.
Cadwallader, Harry, Jr., Philadelphia, Pa. Cutlery, machinery, tools, and parts. No. 128,950; Jan. 20; v. 270; p. 472.
Cafenarine Chemical Corporation, The, Detroit, Mich. Pharmaceutical preparation for influenza, colds, headaches, &c. No. 138,429; Dec. 28; v. 281; p. 781.
Cairo Food Products Company, Cairo, Ill. Ice-cream, butter, candy, &c. No. 133,924; Aug. 10; v. 277; p. 386.
Cairo Food Products Company, Cairo, Ill. Soda-water. No. 136,346; Nov. 2; v. 280; p. 179.
Caladero Products Company, Atascadero, Calif. The following dried commodities: apples, apricots, peaches, &c. No. 136,767; Nov. 9; v. 280; p. 378.
Calbreath, Charles E., St. Louis, Mo. Metal-polish. No. 134,898; Sept. 21; v. 278; p. 580.
Calco Chemical Company, The, Boundbrook, N. J. Medicinal preparations used in the treatment of certain named ailments. No. 133,369; July 27; v. 276; p. 767.
Caldwell, Daniel E., Los Angeles, Calif. Rabbit remedies. No. 129,436; Feb. 24; v. 271; p. 677.
Calhoun, George E., Amsterdam, N. Y. Dressing for brake-linings and the like. No. 133,923; Aug. 10; v. 277; p. 386.
California Alkali Co., San Francisco, Calif. Neutral soda for cleaning and washing. No. 132,634; June 29; v. 275; p. 1014.
California Alkali Co., San Francisco, Calif. Soda-ash or anhydrous sodium carbonate. No. 132,635; June 29; v. 275; p. 1014.
California Casing Co., San Francisco, Calif. Seasonings for sausage. No. 136,768; Nov. 9; v. 280; p. 378.
California Central Creameries, San Francisco, Calif. Dried milk solids in powder form. No. 135,933; Oct. 26; v. 279; p. 716.
California Central Creameries, San Francisco, Calif. Food products. No. 138,536; Dec. 28; v. 281; p. 785.
California Chocolate Shop, Inc., Los Angeles, Calif. Confectionery—namely, chocolate bonbons. Nos. 133,925–6; Aug. 10; v. 277; p. 386.
California Chocolate Shops Inc., Los Angeles, Calif. Chocolate candy. No. 135,623; Oct. 19; v. 279; p. 526.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

California Co-Operative Canneries, San Jose, Calif. Canned fruits and vegetables. No. 135,934; Oct. 26; v. 279; p. 716.
California Co-Operative Canneries, San Jose, Calif. Canned fruits and vegetables. No. 137,962; Dec. 14; v. 281; p. 396.
California Grape Products Corp., Bloomfield, N. J. Non-intoxicating beverages. No. 137,137; Nov. 23; v. 280; p. 790.
California Lima Bean Growers Association. Dry Lima Beans. No. 132,636; June 29; v. 275; p. 1014.
California Macaroni Company, San Francisco, Calif. Macaroni, spaghetti, vermicelli. No. 130,273; Apr. 20; v. 273; p. 619.
California Optical Company, San Francisco, Calif. Binoculars, field-glasses, range-finders, &c. No. 130,470; Apr. 27; v. 273; p. 801.
California Packing Corporation, San Francisco, Calif. Canned vegetables and fruits, &c. No. 128,951; Jan. 20; v. 270; p. 472.
California Packing Corporation, San Francisco, Calif. Canned vegetables and fruits, dried fruits, jellies, &c. No. 129,131; Jan. 27; v. 270; p. 618.
California Packing Corporation, San Francisco, Calif. Canned vegetables and dried fruits. No. 132,318; June 22; v. 275; p. 816.
California Packing Corporation, San Francisco, Calif. Canned vegetables. No. 133,222; July 20; v. 276; p. 589.
California Packing Corporation, San Francisco, Calif. Foods. No. 137,963; Dec. 14; v. 281; p. 396.
California Paint Company, Oakland, Calif. Dry and ready-mixed paints, varnishes, painters' oils, &c. No. 135,935; Oct. 26; v. 279; p. 716.
California Sanitary Canning Co., Los Angeles, Calif. Canned fruits. No. 130,274; Apr. 20; v. 273; p. 619.
California Soap Company, Inc., Los Angeles, Calif. Soaps. No. 133,603; Aug. 3; v. 277; p. 170.
California Soda Products Co., San Francisco, Calif. Preparation used for softening water. No. 134,606; Sept. 14; v. 278; p. 354.
California Walnut Growers Association, Los Angeles, Calif. Walnut-meats. No. 130,162; Apr. 13; v. 273; p. 401.
California Walnut Sauce Co., Los Angeles, Calif. Walnut sauce and pickled walnuts. No. 130,664; May 4; v. 274; p. 183.
California Wine Association, San Francisco, Calif. Grape-juice. No. 131,422; May 18; v. 274; p. 602.
California Wine Association, San Francisco, Calif. Flowers of sulfur. No. 138,225; Dec. 21; v. 281; p. 563.
Calima Canning Co., Los Angeles, Calif. Canned fruits. No. 132,102; June 15; v. 275; p. 615.
Calisher, Joseph H., New York, N. Y. Toilet preparations. No. 129,636; Mar. 9; v. 272; p. 361.
Calisher, Joseph H., New York, N. Y. Toilet preparations. No. 135,624; Oct. 19; v. 279; p. 526.
Calisher, Joseph H., New York, N. Y. Toilet preparations. No. 136,347; Nov. 2; v. 280; p. 179.
Calisher, Joseph H., New York, N. Y. Toilet preparations. No. 138,430; Dec. 28; v. 281; p. 781.
Camden Motors Corporation, Camden, N. J. Passenger-automobiles and motor-trucks. No. 130,471; Apr. 27; v. 273; p. 801.
Campbell, A. S., Company, Boston, Mass. Curtain-windows for vehicle and similar curtains. No. 131,965; June 8; v. 275; p. 413.
Campbell, Edward H., Highwood, Mont. Non-alcoholic maltless beverage. No. 130,046; Apr. 6; v. 273; p. 179.
Campbell Electric Co., Lynn, Mass. Cabinets of X-ray units containing X-ray transformers and accessory equipment. No. 135,408; Oct. 12; v. 279; p. 342.
Campbell Glass & Paint Company, St. Louis, Mo. Enamel paint. No. 129,337; Feb. 17; v. 271; p. 507.
Campbell, James A., Chicago, Ill. Eyebrow-brushes. No. 130,047; Apr. 6; v. 273; p. 179.
Campbell, John, & Co., New York, N. Y. Aniline colors and coal-tar dyes. No. 128,952; Jan. 20; v. 270; p. 472.
Campbell, William, Wall Paper Co., Hackensack, N. J. Wall-paper. No. 135,936; Oct. 26; v. 279; p. 716.
Campbell, William, Wall Paper Co., Hackensack, N. J. Wall-paper. No. 136,348; Nov. 2; v. 280; p. 179.
Campe Corporation, The, New York, N. Y. Hosiery. No. 131,718; May 25; v. 274; p. 830.
Campe Corporation, The, New York, N. Y. Bathing-suits sweaters, and jerseys. No. 133,223; July 20; v. 276; p. 589.
Canadian-American Cereal Products Co., New York and Buffalo, N. Y., and New Orleans, La. Wheat-flour. Nos. 136,349–52; Nov. 2; v. 280; p. 179.
Canaveri, Joseph P., Port Arthur, Tex. Pharmaceutical preparation. No. 138,431; Dec. 28; v. 281; p. 781.
C-an-B Co. (not Inc.), Chicago, Ill. Fusible cement for filling iron and steel castings. No. 136,362; Nov. 2; v. 280; p. 179.
Candy Cake Corporation, Wilmington, Del., and Newark, N. J. Cakes and crackers. No. 131,060; May 4; v. 274; p. 195.
Candy-Cake Inc. (See Lohr, William, assignor.)
Candy Craft Shops, Inc., The, Chicago, Ill. Candy. No. 137,138; Nov. 23; v. 280; p. 790.
Candy, P. B., Co., New York, N. Y. Peanut-butter and salted peanuts. No. 137,964; Dec. 14; v. 281; p. 396.
Candy Products Corporation, Chicago, Ill. Confectionery. No. 134,225; Aug. 24; v. 277; p. 777.
Canepa, John B., Company, The, Chicago, Ill. Cereal paste goods. No. 137,772; Dec. 7; v. 281; p. 195.
Cannaday, Julius E., Sedalia, Mo. Floral ribbon in the piece. No. 132,103; June 15; v. 275; p. 615.
Cannizzaro, P., & Co., Inc., New York, N. Y. Cigars, cigarettes, smoking and chewing tobacco. No. 133,370; July 27; v. 276; p. 767.
Cannon, Mary D., Montclair and Bloomfield, N. J. Women's caps. No. 132,104; June 15; v. 275; p. 616.
Cannon Valley Milling Company, Minneapolis, Minn. Wheat-flour. Nos. 136,353–6; Nov. 2; v. 280; p. 179.
Cannon Valley Milling Company, Minneapolis, Minn. Wheat-flour. No. 137,139; Nov. 23; v. 280; p. 790.
Cant-Slip Co., Rochester, N. Y. Preparation used for application to a typewriter-platen to prevent slipping. No. 133,927; Aug. 10; v. 277; p. 386.
Canterbury Candy Makers, Seattle, Wash. Candy, fresh fruits, and nuts in their natural state. No. 135,208; Sept. 28; v. 278; p. 701.
Canton-Blackstone Company, Canton, Ohio. Rubber tires, rubber-tire casings, and inner tubes. No. 133,224; July 20; v. 276; p. 589.
Canton Feed & Milling Company, The, Canton, Ohio. Wheat-flour and stock feed. No. 131,932; June 1; v. 275; p. 199.
Canton Furniture Manufacturing Co., Canton, Ohio. Revolving and sectional bookcases, house-desks, and medicine-cabinets. No. 135,409; Oct. 12; v. 279; p. 342.
Canziani-Henderson Co. Inc., New York, N. Y. Piece goods of silk and other fabrics. No. 129,637; Mar. 9; v. 272; p. 361.
Capell, Western L., Omaha, Nebr. Medical compound for the treatment of syphillis. No. 131,423; May 18; v. 274; p. 602.
Capen Belting & Rubber Company, St. Louis, Mo. Belting, hose, tires, &c. No. 137,140; Nov. 23; v. 280; p. 790.
Capen, George H., Canton Junction, Mass. Leather blackings and dressing. No. 132,319; June 22; v. 275; p. 816.
Capitol Cap Company, Indianapolis, Ind. Caps and hats for men, women, and children. No. 135,937; Oct. 26; v. 279; p. 716.
Capitol Refining Co., South Washington, Va. Shortening or artificial lard. No. 137,572; Nov. 30; v. 280; p. 990.
Capola Manufacturing Co., New York, N. Y. Laxatives. No. 129,437; Feb. 24; v. 271; p. 678.
Caradine, James T., St. Louis, Mo. Waterproof and non-waterproof coats, slickers, &c. No. 134,344; Aug. 31; v. 277; p. 971.
Carbona Products Company, New York, N. Y. Chemical fire-extinguishing compound. No. 132,320; June 22; v. 275; p. 816.
Car-Bo-Thymol Company, Atlanta, Ga. Medicated oil for catarrhal conditions of the nose, throat, and bronchi. No. 128,323; Jan. 6; v. 270; p. 178.
Carb-Out Laboratories Company, Baltimore, Md. Chemical carbon-remover for internal-combustion engines. No. 136,544; Nov. 2; v. 280; p. 185.
Card, Clellan L., Philadelphia, Pa. Toothbrushes. No. 136,357; Nov. 2; v. 280; p. 179.
Card, J. M., Lumber Co., Chattanooga, Tenn. Rough and dressed lumber. No. 137,141; Nov. 23; v. 280; p. 790.
Cardinet Candy Co., Oakland, Calif. Candy. No. 130,472; Apr. 27; v. 273; p. 801.
Cardinet Candy Co., Oakland, Calif. Candy. No. 135,410; Oct. 12; v. 279; p. 342.
Carey Company, The, Cleveland, Ohio. Covers for heating-radiators. No. 134,345; Aug. 31; v. 277; p. 971.
Carey, Philip, Manufacturing Company, The, Lockland, Ohio. Packings, gaskets, &c. No. 129,954; Mar. 9; v. 272; p. 370.
Cargill, J. Ralston, Americus, Ga. Table-syrup. No. 133,371; July 27; v. 276; p. 767.
Carlisle Bros., Minneapolis, Minn. Cholocate candy. No. 135,938; Oct. 26; v. 279; p. 716.
Carlisle Bros., Minneapolis, Minn. Candy. No. 135,939; Oct. 26; v. 279; p. 716.
Carlisle Tire & Rubber Company, Dover, Del., and Carlisle, Pa. Rubber tires and tubes. No. 136,360; Nov. 2; v. 280; p. 179.
Carlton Co., The, New York, N. Y. Soap. No. 129,638; Mar. 9; v. 272; p. 361.
Carlyle Milling Company, Carlyle, Ill. Self-rising wheat-flour. No. 131,061; May 4; v. 274; p. 195.
Carnation Milk Products Company, Portland, Me., and Seattle, Wash. Milk-chocolate. No. 135,209; Sept. 28; v. 278; p. 701.
Carner, George T., Fulton, N. Y. Salve. No. 128,954; Jan. 20; v. 270; p. 472.
Carney, Alexander R., Fresno, Calif. Fresh plums. No. 133,928; Aug. 10; v. 277; p. 386.
Carnick, G. W., Co., New York, N. Y. Medicinal tablet for the treatment of malaria. No. 133,372; July 27; v. 276; p. 767.
Carnrick, G. W., Co., New York, N. Y. Medicinal tablet for the treatment of anemia and chlorosis. No. 134,899; Sept. 21; v. 278; p. 530.
Carpenter-Morton Company, Boston, Mass. Prepared roofing. No. 134,480; Sept. 7; v. 278; p. 159.
Carpenter Steel Company, The, Reading, Pa. Tool-steel. No. 136,358; Nov. 2; v. 280; p. 179.

Digitized by Google

Carr Fastener Company, Cambridge, Mass. Snap-fasteners. No. 131,895; May 25; v. 274; p. 835.
Carr Fastener Company, Cambridge, Mass. Snap-fasteners. Nos. 131,966–7; June 8; v. 275; p. 413.
Carr, R. F., Memphis, Tenn. Polishes for automobiles, furniture, &c. No. 138,226; Dec. 21; v. 281; p. 563.
Carreras, Alfonso, London, England. Tooth-paste. No. 131,424; May 18; v. 274; p. 602.
Carreras Limited, London, England. Smoking and chewing tobacco, cigars, and cigarettes. No. 137,567; Nov. 30; v. 280; p. 996.
Carrigan-Erckert Co., Birmingham, Ala. Preparation for treatment of mange, eczema, &c. No. 129,488; Feb. 24; v. 271; p. 678.
Carroll, T. L., Company, Gothenburg, Nebr. Wheat-flour. No. 130,665; May 4; v. 274; p. 183.
Carroll, T. L., Company, Gothenburg, Nebr. Wheat-flour. No. 132,908; July 6; v. 276; p. 200.
Carson Petroleum Company, Chicago, Ill. Petroleum products. No. 131,719; May 25; v. 274; p. 830.
Carson, Pirie, Scott & Co., Chicago, Ill. Ribbons. No. 129,639; Mar. 9; v. 272; p. 361.
Carson, Pirie, Scott & Co., Chicago, Ill. Ginghams, percales, bleached muslin, &c. No. 130,275; Apr. 20; v. 273; p. 619.
Carson, Pirie, Scott & Co., assignor to Carson, Pirie, Scott & Co., Chicago, Ill. Men's negligée outer shirts. No. 130,276; Apr. 20; v. 273; p. 619.
Carson, Pirie, Scott & Co., assignor to Carson, Pirie, Scott & Company, Chicago, Ill. Nainsooks, muslins, longcloth, and cambrics. No. 130,666; May 4; v. 274; p. 188.
Carson, Pirie, Scott & Co., assignor to Carson Pirie Scott & Company, Chicago, Ill. Overalls. No. 132,321; June 22; v. 275; p. 816.
Carson, Pirie, Scott & Co., assignor to Carson, Pirie, Scott & Company, Chicago, Ill. Handkerchiefs. No. 133,604; Aug. 3; v. 277; p. 170.
Carswell, Bessie B., Kansas City, Mo. Chicken-tonic. No. 129,269; Feb. 10; v. 271; p. 355.
Carter Annie L., New York, N. Y. Chemical compound for the treatment of the hair and scalp. No. 134,481; Sept. 7; v. 278; p. 159.
Carter Bros. Mattress Company, Chattanooga, Tenn. Mattresses. No. 137,568; Nov. 30; v. 280; p. 996.
Carter Carburetor Company, St. Louis, Mo. Carbureters. No. 136,359; Nov. 2; v. 280; p. 179.
Carter Carburetor Company, St. Louis, Mo. Carbureters. No. 137,019; Nov. 16; v. 280; p. 583.
Carter Carburetor Company, St. Louis, Mo. Carbureters. No. 137,031; Nov. 16; v. 280; p. 583.
Carter Carburetor Company, St. Louis, Mo. Carbureters. No. 137,965; Dec. 14; v. 281; p. 396.
Carter, Macy & Co. Inc., New York, N. Y. Teas. No. 131,968; June 8; v. 275; p. 413.
Carter, Macy & Co., Inc., New York, N. Y. Teas. No. 137,966; Dec. 14; v. 281; p. 396.
Carteret Silk Company, Jersey City, N. J. Underwear, petticoats, and outer waists. No. 130,667; May 4; v. 274; p. 183.
Carton Belting Company, Boston, Mass. Stitched woven belting. Nos. 133,605–6; Aug. 3; v. 277; p. 170.
Carvalho, Leslie R. N., assignor, by mesne assignments, to Closure Service Corp., Brooklyn, N. Y. Metal caps for bottles, jars, and tumblers. No. 134,346; Aug. 31; v. 277; p. 971.
Carver-Beaver Yarn Co., Inc., New York, N. Y. Knitting-yarn. No. 132,909; July 6; v. 276; p. 200.
Casad, James G., Urbana, Ill. Ready-mixed paints. No. 129,338; Feb. 17; v. 271; p. 507.
Casamer, Maude M., Louisville, Ky. Thick liquid or plastic roof-coating. No. 136,769; Nov. 9; v. 280; p. 378.
Casamer, Maude M., Louisville, Ky. Boiler-wall cement or coating having heat-insulating properties. No. 136,770; Nov. 9; v. 280; p. 378.
Casamer, Maude M., Louisville, Ky. Liquid roofing compound. No. 137,142; Nov. 23; v. 280; p. 790.
Cascade Cider Co., Springville and Buffalo, N. Y. Non-alcoholic apple beverages. No. 135,940; Oct. 26; v. 279; p. 717.
Cascade Cider Company, Springville, N. Y. Vinegar. No. 128,646; Jan. 13; v. 270; p. 336.
Cascade Industries Company, Cascade, Md. Candy. No. 132,637; June 29; v. 275; p. 1014.
Case, J. I., Threshing Machine Company, Racine, Mich. Machinery. No. 131,289; May 11; v. 274; p. 399.
Casein Manufacturing Company, New York, N. Y. Casein glues or adhesives. No. 132,322; June 22; v. 275; p. 816.
Cass, Philip, Philadelphia, Pa. Electrical apparatus. No. 135,625; Oct. 19; v. 279; p. 526.
Castelli, Peter, Cincinnati, Ohio. Whooping-cough medicine. No. 136,361; Nov. 2; v. 280; p. 179.
Castello, Edward B., Chicago, Ill. Liniment. No. 128,955; Jan. 20; v. 270; p. 472.
Castine Bay Company, Castine, Me. Sardines. No. 128,324; Jan. 6; v. 270; p. 178.
Castle Kid Co., Camden, N. J. Leather for shoes. No. 130,048; Apr. 6; v. 273; p. 179.
Cataract Chemical Company, Inc., Buffalo, N. Y. Chemicals for use in the manufacture of leather. No. 128,647; Jan. 13; v. 270; p. 337.
Catawba Candy Co., Sandusky, Ohio. Candy. Nos. 135,626–9; Oct. 19; v. 279; p. 526.
Cates, Willard S. Packing Company, Machiasport, Me. Canned fish. No. 135,565; Oct. 12; v. 279; p. 347.
Catholic Missionary Union, Brookland, D. C. Monthly publications. No. 136,771; Nov. 9; v. 280; p. 378.
Catholic News Publishing Company, The, New York, N. Y. Weekly newspaper. No. 134,607; Sept. 14; v. 278; p. 354.
Catlett, Charles, Staunton, Va. Preparations useful in modifying cement, lime, and concrete mixtures. No. 135,941; Oct. 26; v. 279; p. 717.
Catterlin Francis J., Long Beach, Calif. Non-alcoholic non-cereal maltless beverage. No. 131,425; May 18; v. 274; p. 602.
Caumont, Leon F., New York, N. Y. Necktie former and holder. No. 129,132; Jan. 27; v. 270; p. 613.
Cavanna & Company, Philadelphia, Pa. Canned olive-oil. No. 137,967; Dec. 14; v. 281; p. 396.
Caverly-Plumer Company, Lynn, Mass. Compound cream of tartar. No. 132,323; June 22; v. 275; p. 816.
Celite Products Company, Los Angeles, Calif. Heat-insulating filling and a structural material. No. 132,324; June 22; v. 275; p. 816.
Celite Products Company, Los Angeles, Calif. Material for heat-insulating semirefractory filling and a structural material. Nos. 132,325–6; June 22; v. 275; p. 816.
Celite Products Company, Los Angeles, Calif., and New York, N. Y. Construction material. No. 133,225; July 20; v. 276; p. 589.
Cellucotton Products Company, The, Neenah, Wis. Sanitary napkins. No. 134,900; Sept. 21; v. 278; p. 530.
Celluloid Company, The, New York, N. Y. Products made of pyroxylin. No. 136,863; Nov. 2; v. 280; p. 179.
Celluloid Company, The, New York, N. Y. Dental, medical, and surgical appliances. No. 137,143; Nov. 23; v. 280; p. 790.
Celluloid Company, The, New York, N. Y. Pyroxylin products. Nos. 137,773–4; Dec. 7; v. 281; p. 195.
Celluloid Company, The, New York, N. Y. Cuff-buttons. No. 137,968; Dec. 14; v. 281; p. 396.
Celro-Kola Co., Portland, Oreg. Non-alcoholic beverage. No. 131,426; May 18; v. 274; p. 602.
Celro-Kola Co., Portland, Oreg. Non-intoxicating non-alcoholic maltless fruit-syrup. No. 132,105; June 15; v. 275; p. 616.
Celro-Kola Co., Portland, Oreg. Concentrated syrup used in the making of non-alcoholic beverages. No. 136,364; Nov. 2; v. 280; p. 179.
Cement-Gun Company, Inc., Allentown, Pa., and New York, N. Y. Certain named machines and parts thereof. No. 128,325; Jan. 6; v. 270; p. 178.
Cement Products Company, Wilmington, N. C. Cement sewage-disposal tanks. No. 137,573; Nov. 30; v. 280; p. 996.
Centlivre Beverage Co., Fort Wayne, Ind. Malt beverage. No. 130,163; Apr. 13; v. 273; p. 401.
Central Auto Supply Co., Washington, D. C. Furniture and automobile polishes. No. 131,720; May 25; v. 274; p. 830.
Central Chemical Company, Hagerstown, Md. Fertilizing compounds. No. 137,144; Nov. 23; v. 280; p. 790.
Central Glass Works, Wheeling, W. Va. Glassware. No. 134,608; Sept. 14; v. 278; p. 354.
Central Ohio Paper Co., The, Columbus, Ohio. Mailing-envelops. No. 132,106; June 15; v. 275; p. 616.
Central Ohio Paper Company, The, Columbus, Ohio. Printing and writing paper, pamphlets, books, tissue-paper, paper towels, &c. No. 132,107; June 15; v. 275; p. 616.
Central Ohio Paper Company, The, Columbus, Ohio. Printing-paper, box and book cover paper, tissue-paper, &c. No. 132,108; June 15; v. 275; p. 616.
Central Ohio Paper Company, The, Columbus, Ohio. Printing-paper folders, toilet-paper, &c. No. 132,638; June 29; v. 275; p. 1014.
Central Ohio Paper Co., The, Columbus, Ohio. Mailing-envelops, papeteries, and writing-tablets. No. 134,901; Sept. 21; v. 278; p. 530.
Central Ohio Paper Company, The, Columbus, Ohio. Enameled paper. No. 137,969; Dec. 14; v. 281; p. 396.
Central States Orchards Co., Kansas City, Mo. Apples in their natural state. No. 133,929; Aug. 10; v. 277; p. 386.
Century Rubber Stamp Works, New York, N. Y. Rubber stamps, hand stamping and marking devices. No. 131,427; May 18; v. 274; p. 602.
Cereal Products Refining Company, San Francisco, Calif. Yeast. No. 137,145; Nov. 23; v. 280; p. 790.
Chadburn's (Ship) Telegraph Co. Limited, Bootle, England. Ship's electrical apparatus for the transmission and indication of orders. No. 136,365; Nov. 2; v. 280; p. 179.
Chain Belt Company, Milwaukee, Wis. Iron and steel castings and forgings. No. 132,109; June 15; v. 275; p. 616.
Chain Shirt Shops, Inc., New York, N. Y. Men's shirts, underwear, &c. No. 128,648; Jan. 13; v. 270; p. 337.
Challenge Company, Batavia, Ill. Pumps, engines, pump-jacks, &c. No. 136,366; Nov. 2; v. 280; p. 179.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Challoner Company, Oshkosh, Wis. Bars, plates, and bolts for securing antiskid-chains to vehicle-wheels. No. 129,133; Jan. 27; v. 270; p. 613.
Chalmers Pump & Manufacturing Company, Lima, Ohio. Steam-pumps, pumping machinery, jet and surface condensers. No. 135,176; Sept. 21; v. 278; p. 539.
Chamberlain, F. B., Company, St. Louis, Mo. Farina, pearl-barley, cornmeal, &c. No. 130,473; Apr. 27; v. 273; p. 801.
Chamberlain, F. B., Company, St. Louis, Mo. Flavoring extracts for foods. No. 131,062; May 4; v. 274; p. 195.
Chamberlain-Haber Chemical Co., The, Cleveland, Ohio. Composition for opening clogged pipes, traps, and drains. No. 132,639; June 29; v. 275; p. 1014.
Chamberlain-Haber Chemical Co., The, Cleveland, Ohio. Radiator compound for internal-combustion engines. No. 134,482; Sept. 7; v. 278; p. 159.
Chamberlain-Haber Chemical Co., The, Cleveland, Ohio. Insecticidal, germicidal, and air-purifying preparation. No. 138,432; Dec. 28; v. 281; p. 781.
Chamberlin, H. J., Inc., Worcester, Mass. Wire meat-broilers. No. 130,277; Apr. 20; v. 273; p. 619.
Chambley, Alexander, Philadelphia, Pa. Liquid asphaltum. No. 129,978; Mar. 16; v. 272; p. 539.
Champion Kerosene-Burner Co., Kenton, Ohio. Kerosene-burners, &c. No. 131,969; June 8; v. 275; p. 413.
Chance, Albert B., Centralia, Mo. Piston-rings. No. 133,873; July 27; v. 276; p. 767.
Chandler, Benj. H., Cleveland, Ohio. Cleansing compound for floors, furniture, &c. No. 136,772; Nov. 9; v. 280; p. 378.
Chandler & Co., Boston, Mass. Clothing for women. No. 132,327; June 22; v. 275; p. 816.
Chandler & Co., Inc., Boston, Mass. Clothing. No. 135,630; Oct. 19; v. 279; p. 526.
Chandler, Fred K., Des Moines, Iowa. Stock food. No. 138,434; Dec. 28; v. 281; p. 781.
Chaney Manufacturing Company, The, Springfield, Ohio. Thermometers, barometers, rain-gages. No. 128,956; Jan. 20; v. 270; p. 472.
Chapa, A. C., San Antonio, Tex. Salve and a liniment. No. 134,609; Sept. 14; v. 278; p. 354.
Chapin & Company, Hammond, Ind., and Chicago, Ill. Mixed live-stock feed. No. 128,326; Jan. 6; v. 270; p. 178.
Chapin & Company, Hammond, Ind., and Chicago, Ill. Dairy and stock feed. No. 128,327; Jan. 6; v. 270; p. 178.
Chapin & Company, Hammond, Ind., and Chicago, Ill. Dairy and stock feed. No. 132,640; June 29; v. 275; p. 1014.
Chaplin, Ivan C., Indianapolis, Ind. Non-alcoholic syrup and beverage made therefrom. No. 128,328; Jan. 6; v. 270; p. 178.
Chaplin, W. H., & Co., Limited, London, England. Distilled alcoholic liquor. No. 134,483; Sept. 7; v. 278; p. 159.
Chaplin, W. H., & Co., Limited, London, England. Sherry. No. 134,484; Sept. 7; v. 278; p. 159.
Chaplin, W. H., & Co., Limited, London, England. Rum. No. 136,773; Nov. 9; v. 280; p. 378.
Chapman, Frank, Providence, R. I. Soldering kits. No. 128,329; Jan. 6; v. 270; p. 178.
Chapman, Frank, Providence, R. I. Alcohol-stoves. No. 132,910; July 6; v. 276; p. 200.
Chapman, John H., Chicago, Ill. Bread. No. 136,774; Nov. 9; v. 280; p. 378.
Chapman & Smith Company, Chicago, Ill. Baking-powder. No. 133,374; July 27; v. 276; p. 767.
Chapman & Smith Company, Chicago, Ill. Foods. No. 133,930; Aug. 10; v. 277; p. 386.
Chappell, Alexander W., Red Bank, N. J. General tonic for poultry. No. 134,903; Sept. 21; v. 278; p. 530.
Chappell, Alexander W., Red Bank, N. J. Chemical egg-preserver. No. 135,942; Oct. 26; v. 279; p. 717.
Charest, Joseph C. R., Detroit, Mich. Reconstruction-tonic. No. 134,902; Sept. 21; v. 278; p. 530.
Charland, Eugene, Montreal, Canada. Solder. No. 132,110; June 15; v. 275; p. 616.
Charles William Stores, Inc., Brooklyn, N. Y. Phonographs. No. 129,935; Mar. 9; v. 272; p. 370.
Charles William Stores, Inc., The, Brooklyn, N. Y. Hosiery. No. 135,822; Oct. 19; v. 279; p. 532.
Charles William Stores, Inc., The, Brooklyn, N. Y. Rubber tires for automobiles and other vehicles. No. 138,161; Dec. 14; v. 281; p. 402.
Charleston Oil Company, Charleston, S. C. Lubricating-oil. No. 134,610; Sept. 14; v. 278; p. 354.
Charlotte Leather Belting Co., Charlotte, N. C. Leather belting. No. 129,955; Mar. 9; v. 272; p. 370.
Charlotte Leather Belting Company, Charlotte, N. C. Leather belting. Nos. 129,640–1; Mar. 9; v. 272; p. 361.
Charms Co., Newark, N. J. Candy and fruit tablets. No. 135,631; Oct. 19; v. 279; p. 526.
Charms Company, Newark, N. J. Candy and fruit tablets. Nos. 130,669–70; May 4; v. 274; p. 183.
Charms Company, Newark, N. J. Toasted peanuts. No. 132,641; June 29; v. 275; p. 1014.
Charms Company, Newark, N. J. Non-alcoholic, non-cereal, maltless beverages. No. 133,607; Aug. 3; v. 277; p. 170.
Chase, L. C., & Co., Boston, Mass. Women's outer garment or wrap. No. 131,721; May 25; v. 274; p. 830.
Chase & Sanborn, Boston, Mass. Tea. No. 129,307; Feb. 10; v. 271; p. 856.
Chase & Sanborn, Boston, Mass. Tea. No. 134,226; Aug. 24; v. 277; p. 777.
Chase & Sanborn, Boston, Mass. Tea. No. 134,347; Aug. 31; v. 277; p. 971.
Chateau Bottling Company, New York, N. Y. Non-alcoholic, maltless, non-cereal beverages. No. 136,775; Nov. 9; v. 280; p. 378.
Chatillon, Mouly, Roussel & Co., Lyon, France. Piece goods of silk, wool, linen, &c. No. 134,904; Sept. 21; v. 278; p. 530.
Chattanooga Medicine Co., Chattanooga, Tenn. Medicine for female diseases. No. 128,649; Jan. 13; v. 270; p. 337.
Chattanooga Plow Company, Chattanooga, Tenn. Plows and cane-mills and separate parts. No. 135,411; Oct. 12; v. 279; p. 342.
Chelsea Engineering Sales Corporation, New York, N. Y. Abrasive, detergent, and polishing materials. No. 134,905; Sept. 21; v. 278; p. 530.
Chelsea Engineering Sales Corporation, New York, N. Y. Raw and partly prepared materials. No. 136,367; Nov. 2; v. 280; p. 179.
Chelsea Engineering Sales Corporation, New York, N. Y. Hardware. No. 137,146; Nov. 23; v. 280; p. 790.
Chelsea Engineering Sales Corporation, New York, N. Y. Hoists, pulleys, fire-extinguishers, &c. No. 137,147; Nov. 23; v. 280; p. 791.
Chelsea Engineering Sales Corporation, New York, N. Y. Oils and greases. No. 137,148; Nov. 23; v. 280; p. 791.
Chelsea Engineering Sales Corporation, New York, N. Y. Paints and painters' materials. No. 137,149; Nov. 23; v. 280; p. 791.
Chemical Company of America, The, New York, N. Y. Chemical compound for waterproofing textile fabrics. No. 134,906; Sept. 21; v. 278; p. 530.
Chemical Equipment Company, Chicago, Ill. Machinery. No. 135,216; Sept. 28; v. 278; p. 701.
Chemical National Bank of New York, The, New York, N. Y. Monthly and annual publications. No. 137,569; Nov. 30; v. 280; p. 996.
Chemical Paper Company, Washington, D. C. Transparent paper and gelatin papers. No. 137,970; Dec. 14; v. 281; p. 396.
Chemical, R. T., Co., Kansas City, Mo. Medicinal preparation. No. 138,433; Dec. 28; v. 281; p. 781.
Chemische Werke vorm. Dr. Heinrich Byk, Oranienburg, near Berlin, Germany. Medicinal preparations. No. 128,330; Jan. 6; v. 270; p. 178.
Cheney Brothers, South Manchester, Conn. Fabrics of silk and silk mixtures in the piece. Nos. 129,642–5; Mar. 9; v. 272; p. 869.
Cheney Brothers, South Manchester, Conn. Woven, knitted, netted, textile, and pile fabrics in whole or part of silk. Nos. 131,933–4; June 1; v. 275; p. 199.
Cheney Brothers, South Manchester, Conn. Fabrics of silk and silk mixtures in the piece. Nos. 132,111–12; June 15; v. 275; p. 616.
Cheney Brothers, South Manchester, Conn. Woven, knitted, netted, textile, and pile fabrics in the piece. No. 132,113; June 15; v. 275; p. 616.
Cheney Brothers, South Manchester, Conn. Fabrics of silk and silk mixtures. No. 132,329; June 22; v. 275; p. 816.
Cheney Brothers, South Manchester, Conn. Fabrics of silk and silk mixtures. No. 132,911; July 6; v. 276; p. 200.
Cheney Brothers, South Manchester, Conn. Fabrics of silk and silk mixtures. No. 133,932; Aug. 10; v. 277; p. 386.
Cheney Brothers, South Manchester, Conn. Woven, knitted, &c., fabrics in the piece. Nos. 134,805–8; Aug. 24; v. 277; p. 781.
Cheney Brothers, South Manchester, Conn. Fabrics of silk and silk mixtures. No. 136,368; Nov. 2; v. 280; p. 179.
Cheney Brothers, South Manchester, Conn. Fabrics. Nos. 138,172–9; Dec. 14; v. 281; pp. 403–4.
Cheney Brothers, South Manchester, Conn. Woven, knitted, &c., fabrics in the piece. No. 138,380; Dec. 21; v. 281; p. 569.
Cheney, S., & Son, Manlius, N. Y. Stock-feed-grinding machines. No. 134,161; Aug. 17; v. 277; p. 581.
Cheney Talking Machine Company, Chicago, Ill. Cabinet talking-machines. No. 129,646; Mar. 9; v. 272; p. 361.
Cheri, Inc., Philadelphia, Pa. Foods. No. 130,474; Apr. 27; v. 273; p. 801.
Chéri Incorporated, Philadelphia, Pa. Chocolates and candies. No. 134,348; Aug. 31; v. 277; p. 971.
Chernoff Company, San Francisco, Calif. Toilet preparations. No. 136,369; Nov. 2; v. 280; p. 179.
Cherry Pepsin Products Co., The, Baltimore, Md. General tonic. No. 137,497; Nov. 23; v. 280; p. 802.
Cherry Tree Machine Company, Cherry Tree borough, Pa. Electrical apparatus, machines, and supplies. No. 133,107; July 13; v. 276; p. 401.
Chesapeake Iron Works, Baltimore, Md. Cranes. No. 134,155; Aug. 17; v. 277; p. 581.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Chess & Wymond Company, Louisville, Ky. Empty tight barrels, kegs, hogsheads, shooks, staves, &c. No. 135,943; Oct. 26; v. 279; p. 717.
Chester Beverage Co., Chester, Pa. Root-beer, ginger-ale, lemon-soda, &c. No. 138,227; Dec. 21; v. 281; p. 568.
Chester Novelty Co. Inc., Albany, N. Y. Ink-tablets. No. 129,647; Mar. 9; v. 272; p. 361.
Chesterton, A. W. Co., Boston, Mass. Pressure-gage glasses. No. 135,566; Oct. 12; v. 279; p. 347.
Chevaux Kid Leather Co., Boston, Mass. Finished leather. No. 120,278; Apr. 20; v. 273; p. 619.
Chicago Belting Company, Chicago, Ill. Dressing and preservative for leather, rubber, canvas, and fabric belting, &c. No. 135,412; Oct. 12; v. 279; p. 342.
Chicago Belting Company, Chicago, Ill. Leather belting. No. 1,370,000; Nov. 9; v. 280; p. 387.
Chicago Belting Company, Chicago, Ill. Leather belting. No. 137,570; Nov. 30; v. 280; p. 996.
Chicago Daily News Company, The, Chicago, Ill. Daily newspaper. No. 129,648; Mar. 9; v. 272; p. 361.
Chicago Electric Manufacturing Company, Chicago, Ill. Electric appliances and lamps. No. 136,370; Nov. 2; v. 280; p. 179.
Chicago Flexible Shaft Company, Chicago, Ill. Electrical flatirons. No. 130,279; Apr. 20; v. 273; p. 619.
Chicago Flexible Shaft Company, Chicago, Ill. Electric flat-irons. No. 130,671; May 4; v. 274; p. 183.
Chicago Flexible Shaft Company., Chicago, Ill. Electric flat-irons. Nos. 131,063–4; May 4; v. 274; p. 195.
Chicago Flexible Shaft Company, Chicago, Ill. Electric flat-irons. No. 133,611; Aug. 8; v. 277; p. 171.
Chicago Flexible Shaft Company, Chicago, Ill. Electric flatirons. No. 135,413; Oct. 12; v. 279; p. 342.
Chicago Flexible Shaft Company, Chicago, Ill. Electric flatirons. No. 136,776; Nov. 9; v. 280; p. 378.
Chicago Flexible Shaft Company, Chicago, Ill. Electric flatirons. No. 137,150; Nov. 23; v. 280; p. 791.
Chicago Gum Tape Company, Chicago, Ill. Gummed and ungummed paper sealing, veneer, and stay tapes. No. 137,151; Nov. 23; v. 280; p. 791.
Chicago Gum Tape Company, Chicago, Ill. Gummed and ungummed paper sealing, veneer, and stay tapes. No. 137,971; Dec. 14; v. 281; p. 396.
Chicago Hardware Foundry Company, North Chicago, Ill. Furniture. No. 130,049; Apr. 6; v. 273; p. 179.
Chicago Hardware Foundry Company, North Chicago, Ill. Lunch-room equipments, Industrial. No. 134,612; Sept. 14; v. 278; p. 354.
Chicago Mill and Lumber Company, Chicago, Ill. Printed monthly magazine. No. 135,944; Oct. 26; v. 279; p. 717.
Chicago Paper Company, Chicago, Ill. Paper. No. 130,050; Apr. 6; v. 273; p. 179.
Chicago Paper Company, Chicago, Ill. Book, writing, and cover paper. No. 135,861; Oct. 19; v. 279; p. 535.
Chicago Pneumatic Tool Company, Chicago, Ill. Lubricating oils and greases for machinery. No. 129,339; Feb. 17; v. 271; p. 507.
Chicago Pneumatic Tool Company, Chicago, Ill. Electric track and spindle drills, grinders, hammer-drills, &c. No 131,065; May 4; v. 274; p. 195.
Chicago Pneumatic Tool Company, Chicago, Ill. Cutlery, machinery, and tools, and parts thereof. No. 133,108; July 13; v. 276; p. 401.
Chicago Pneumatic Tool Company, Chicago, Ill. Belting, hose, machinery packing, and non-metallic tires. No. 133,226; July 20; v. 276; p. 589.
Chicago Pottery Company, Chicago, Ill. Closet-bowls. No. 129,271; Feb. 10; v. 271; p. 355.
Chicago Steel Post Company, Chicago, Ill. Metallic fence-posts. No. 131,290; May 11; v. 274; p. 399.
Chicago Tanning Co., Chicago, Ill. Horse-leather. No. 130,672; May 4; v. 274; p. 183.
Childs, W. H., & Son, New York, N. Y. Cotton, linen, silk, &c., piece goods and velvets and velveteens in the piece, Nos. 131,428–9; May 18; v. 274; p. 602.
Chill-O Company, Chicago, Ill. Non-alcoholic non-intoxicating maltless non-cereal beverage. No. 131,430; May 18; v. 274; p. 602.
China & Japan Trading Company, Limited, New York, N. Y. Woolen and cotton piece goods. No. 131,722; May 25; v. 274; p. 830.
China, Japan & South America Trading Co., Ltd., New York, N. Y. Cotton, silk and wool piece goods. No. 130,051; Apr. 6; v. 273; p. 179.
China, Japan & South America Trading Co., Ltd., San Francisco, Calif. Canned fruits and vegetables. No. 132,330; June 22; v. 275; p. 816.
China, Japan, and South America Trading Co., San Francisco, Calif. Canned fruits, vegetables, and fish. No. 132,642; June 29; v. 275; p. 1014.
China, Japan & South America Trading Co., Ltd., San Francisco, Calif. Canned fruits and vegetables. No. 133,933; Aug. 10; v. 277; p. 386.
China, Japan & South America Trading Co. Ltd., New York, N. Y. Cotton piece goods. No. 134,907; Sept. 21; v. 278; p. 530.
Chinook Lumber & Shingle Co., Seattle, Wash. Shingles. No. 128,650; Jan. 13; v. 270; p. 337.
Chinook Lumber & Shingle Co., Seattle, Wash. Shingles. No. 129,272; Feb. 10; v. 271; p. 355.
Chinook Lumber & Shingle Co., Seattle, Wash. Shingles. No. 130,010; Mar. 23; v. 272; p. 781.
Chinook Lumber & Shingle Co., Seattle, Wash. Shingles. No. 133,227; July 20; v. 276; p. 589.
Chipman Knitting Mills, Easton, Pa. Hosiery. No. 128,331; Jan. 6; v. 270; p. 178.
Chipman Knitting Mills, Easton, Pa. Hosiery. No. 129,184; Jan. 27; v. 270; p. 613.
Chipman Knitting Mills, Easton, Pa. Hosiery. No. 130,673; May 4; v. 274; p. 183.
Chipman Knitting Mills, Easton, Pa. Hosiery. No. 131,066; May 4; v. 274; p. 195.
Chipman Knitting Mills, Easton, Pa. Hosiery for men, women, and children. No. 132,114; June 15; v. 275; p. 616.
Chipman Knitting Mills, Easton, Pa. Hosiery for men, women, and children. Nos. 132,331–5; v. 275; p. 816.
Chipman Knitting Mills, Easton and Spring Grove, Pa. Hosiery. Nos. 135,633–5; Oct. 19; v. 279; p. 526.
Chipman Knitting Mills, Easton, Pa. Hosiery for men, women, and children. No. 135,945; Oct. 26; v. 279; p. 717.
Chipman Knitting Mills, Easton, Pa. Hosiery. Nos. 138,228–9; Dec. 21; v. 281; p. 563.
Chipman Knitting Mills, Easton, Pa. Hosiery. No. 138,435; Dec. 28; v. 281; p. 781.
Chipman Limited, New York, N. Y. Pianos, player-pianos, organs, phonographs, and phonograph-needles. No. 132,643; June 29; v. 275; p. 1014.
Chipman's, Chas., Sons Co., Inc., New York, N. Y. Hosiery for men, women, and children. No. 129,439; Feb. 24; v. 271; p. 678.
Chippewa Springs Corporation, Minneapolis, Minn. Natural spring-water and its products. No. 130,164; Apr. 13; v. 273; p. 401.
Chisholm, Gillington, Fredericksburg, Tex. Dental medicine for the treatment of pyorrhea alveolaris. No. 129,956; Mar. 9; v. 272; p. 370.
Chiswick Polish Company, Limited, The, Chiswick, London, England. Polishes for metal and leather. No. 137,972; Dec. 14; v. 281; p. 396.
Chocolate Products Company, Baltimore, Md. Chocolate candy. No. 129,273; Feb. 10; v. 271; p. 355.
Chocolate Truffles Co., Portland, Oreg. Chocolate candy. No. 135,177; Sept. 21; v. 278; p. 539.
Christenson, Hanify & Weatherwax, San Francisco, Calif. Canned pears, salmon, and tomatoes. No. 128,652; Jan. 13; v. 270; p. 337.
Christenson, Hanify & Weatherwax, San Francisco, Calif. Canned salmon, peaches, and tomatoes. No. 128,651; Jan. 13; v. 270; p. 337.
Christman, Louis F., Jackson, Tenn. Liquid hat-dye. No. 129,274; Feb. 10; v. 271; p. 355.
Christman Piano Co., New York, N. Y. Pianos. No. 136,718; Nov. 2; v. 280; p. 191.
Christoforides, John, London, England. Cigarettes. No. 133,383; July 27; v. 276; p. 768.
Christoforides, John, London, England. Smoking and chewing tobacco, cigars, and cigarettes. No. 134,613; Sept. 14; v. 278; p. 354.
Christoforides, John, London, England. Tobacco, cigars, cigarettes. No. 135,946; Oct. 26; v. 279; p. 717.
Chrobaltic Tool Company, Chicago, Ill. Reamers, metal-cutting drills, punches, &c. No. 132,336; June 22; v. 275; p. 817.
Chrobaltic Tool Company, Chicago, Ill. Templets and try-gages. No. 135,414; Oct. 12; v. 279; p. 342.
Chuck, Davis & Co., New York, N. Y. Cotton piece goods. No. 132,337; June 22; v. 275; p. 817.
Church, Clifford C., Boston, Mass. Toy vehicles. No. 134,908; Sept. 21; v. 278; p. 530.
Church, James B., Jacksonville, Fla., and Southport, N. C. Rowlock-sockets. No. 135,636; Oct. 19; v. 279; p. 526.
Churchill, Ray S., Danville, Ill. Soldering compounds in powder form. No. 134,162; Aug. 17; v. 277; p. 581.
Chute & Butler Co., Peru, Ind. Pianos. No. 135,210; Sept. 28; v. 278; p. 701.
Ciluzzi, Ralph, New York, N. Y. Perfumes, powders, &c. No. 128,957; Jan. 20; v. 270; p. 472.
Cincinnati Auto Specialty Co., The, Cincinnati, Ohio. Celluloid curtain-windows or flexible transparency-sheets for automobile or vehicle tops. No. 138,381; Dec. 21; v. 281; p. 569.
Cincinnati Beverage and Products Co., The, Cincinnati, Ohio. Non-alcoholic maltless beverage. No. 132,115; June 15; v. 275; p. 616.
Cincinnati Soap Co., The, Cincinnati, Ohio. Soap. No. 132,644; June 29; v. 275; p. 1014.
Cisco, Inc., New York, N. Y. Clothing. No. 133,109; July 13; v. 276; p. 401.
Citrus Soap Company, San Diego, Calif. Washing-powder. No. 134,909; Sept. 21; v. 278; p. 530.
Citrus Soap Company, San Diego, Calif. Washing-powder. Nos. 135,217–19; Sept. 28; v. 278; pp. 701–2.
City Cap Co., St. Louis, Mo. Headwear for men and boys. No. 132,116; June 15; v. 275; p. 616.
City Consumers Co., Paducah, Ky. Ice-cream, butter, milk, &c. No. 128,653; Jan. 13; v. 270; p. 337.
City Mills Company, Columbus, Ga. Wheat-flour and self-rising wheat-flour. Nos. 134,227–8; Aug. 24; v. 277; p. 777.

Digitized by Google

Claassen, Arthur, Jr., Philadelphia, Pa. Insecticide. No. 138,436; Dec. 28; v. 281; p. 781.
Clack, H. Earl, Company, Havre, Mont. Kerosene. No. 132,647; June 29; v. 275; p. 1014.
Clack, H. Earl, Company, Havre, Mont. Gasolene. No. 135,415; Oct. 12; v. 279; p. 342.
Cla-Loid Mfg. Co., Clermont, Iowa. Mechanics' soap in bars. No. 133,613; Aug. 3; v. 277; p. 171.
Clamert Manufacturing Company, The, Pittsburgh, Pa. Headlight-lenses. No. 138,437; Dec. 28; v. 281; p. 782.
Clarendon Refining Company, Clarendon borough, Pa. Lubricating and illuminating oils, gasolene, naphtha, benzin, and paraffin-wax. No. 132,117; June 15; v. 275; p. 616.
Clark, Arthur E., Morrisville, N. Y. Medicinal and pharmaceutical preparations. No. 137,152; Nov. 23; v. 280; p. 791.
Clark, D. L., Company, The, Pittsburgh, Pa. Candies, &c. No. 135,637; Oct. 19; v. 279; p. 526.
Clark, D. L., Company, The, Pittsburgh, Pa. Chewing-gum. No. 135,947; Oct. 26; v. 279; p. 717
Clark, Fred G., Co., The, Cleveland, Ohio. Lubricating oils and greases. No. 131,723; May 25; v. 274; p. 830.
Clark, Fred G., Co., The, Cleveland, Ohio. Lubricating oils and greases. No. 135,948; Oct. 26; v. 279; p. 717.
Clark, H. W., Biscuit Company, North Adams, Mass. Bakery products—namely, crackers and cakes. No. 131,935; June 1; v. 275; p. 199.
Clark, Herbert S., Philadelphia, Pa. Talcum and face powders, rouge. No. 129,649; Mar. 9; v. 272; p. 361.
Clark, James, Jr., Electric Co., Louisville, Ky. Dynamos, motors, and electrically-driven tools. No. 137,571; Nov. 30; v. 280; p. 996.
Clark, James A., New York, N. Y. Soap. No. 137,020; Nov. 16; v. 280; p. 583.
Clark Products Co., The, Indianapolis, Ind. Polishing compositions. No. 132,646; June 29; v. 275; p. 1014.
Clark, Sawyer D., Boulder, Colo. Salve or ointment for catarrh, eczema, &c. No. 134,485; Sept. 7; v. 278; p. 159.
Clark, Thomas E., Detroit, Mich. Electric fans. No. 130,280; Apr. 20; v. 273; p. 619.
Clark, W. L., Company, Inc., New York, N. Y. Advertising apparatus. No. 133,384; July 27; v. 276; p. 768.
Clarke Bros.' Stores, Scranton, Pa. Peanuts in the shell and peanut-butter. No. 133,934; Aug. 10; v. 277; p. 386.
Clarke, H., & Sons, Inc., Baltimore, Md. Soap. No. 134,910; Sept. 21; v. 278; p. 530.
Clark's, Dr., Chemical Laboratories, Chicago, Ill. Preparation of salvelike consistency for the alleviation of certain named ailments. No. 132,645; June 29; v. 275; p. 1014.
Clarksville Canning Co., Clarksville, Iowa. Canned corn. No. 130,281; Apr. 20; v. 273; p. 620.
Clarotype Company, The, Charleston, S. C., and New York, N. Y. Chemical cleansing compound for typewriters and other metal type, &c. No. 133,935; Aug. 10; v. 277; p. 386.
Class Journal Company, New York, N. Y. Weekly periodical. No. 137,153; Nov. 23; v. 280; p. 791.
Class Journal Company, New York, N. Y. Periodical issued quarterly and at shorter periods. No. 137,154; Nov. 23; v. 280; p. 791.
Class Journal Corporation, Seattle, Wash. Monthly periodical magazines. Nos. 133,385–6; July 27; v. 276; p. 768.
Clay, Henry, and Bock & Co., Ltd., New York, N. Y. Cigars. No. 136,373; Nov. 2; v. 280; p. 179.
Clay, Henry, and Bock & Co., Ltd., New York, N. Y. Cigars. Nos. 137,155–6; Nov. 23; v. 280; p. 791.
Clayton Chemical Co., New York, N. Y. A preparation for the relief of inflammation and pain by cutaneous absorption. No. 131,431; May 18; v. 274; p. 602.
Clearwater Citrus Company, Clearwater, Fla. Fresh oranges and grape-fruit. No. 136,374; Nov. 2; v. 280; p. 180.
Cleary, Robert, Portland, Oreg. Laundry compounds in powdered form. No. 136,777; Nov. 9; v. 280; p. 378.
Clegg, Harry, Manchester, England. Cakes of pulped cotton fiber. No. 135,949; Oct. 26; v. 279; p. 717.
Clegg, Sherman D., Wheeling, W. Va. Herb tablets for the stomach, liver, bowels, and blood. No. 135,950; Oct. 26; v. 279; p. 717.
Clem Lumber Company, Dallas, Tex. Mixed paints. No. 136,375; Nov. 2; v. 280; p. 180.
Clements, Charles A., Newark, N. J. Hair-cream. No. 135,951; Oct. 26; v. 279; p. 717.
Clements, Charles A., Newark, N. J. Hair cream. No. 136,376; Nov. 2; v. 280; p. 180.
Cleroline Chemical Co. Inc., New York, N. Y. Chemical compound for keeping wind-shield or glass clear. No. 133,618; Aug. 3; v. 277; p. 171.
Cleroline Chemical Company, Inc., New York, N. Y. Metal-polish. No. 137,157; Nov. 23; v. 280; p. 791.
Cleveland, Alfred E., Cambridge, Mass. Washing compound. No. 133,387; July 27; v. 276; p. 768.
Cleveland-Akron Bag Co., The, Cleveland, Ohio. Construction material. No. 133,228; July 20; v. 276; p. 590.
Cleveland-Akron Bag Company, The, Cleveland, Ohio. Composition strips and sheets for building and roofing purposes. No. 133,229; July 20; v. 276; p. 590.
Cleveland Automobile Company, Cleveland, Ohio. Automobiles. No. 135,638; Oct. 19; v. 279; p. 526.
Cleveland Brass Manufacturing Co., The, Cleveland, Ohio. Castings and forgings. No. 129,135; Jan. 27; v. 270; p. 613.
Cleveland Brass Manufacturing Company, The, Cleveland, Ohio. Faucets, valves, and cocks. No. 133,614; Aug. 3; v. 277; p. 171.
Cleveland Brass Manufacturing Company, The, Cleveland, Ohio. Faucets, manually-operated valves and cocks. No. 135,952; Oct. 26; v. 279; p. 717.
Cleveland Dental Manufacturing Company, The, Cleveland, Ohio. Dental pliers, forceps, and rongeurs. No. 134,614; Sept. 14; v. 278; p. 354.
Cleveland Fruit Juice Company, The, Cleveland, Ohio. Root-beer and the syrup therefor. No. 136,778; Nov. 9; v. 280; p. 378.
Cleveland Heater Co., The, Cleveland, Ohio. Natural and artificial gas water heaters. No. 135,953; Oct. 26; v. 279; p. 717.
Cleveland Ignition Company, The, Cleveland, Ohio. Ignition and electric-lighting systems and magnetos for automobiles and repair parts therefor. No. 134,911; Sept. 21; v. 278; p. 530.
Cleveland, Laverr, Mansfield, Ohio. Fabric gloves. No. 136,377; Nov. 2; v. 280; p. 180.
Cleveland Metal Products Company, Cleveland, Ohio. Enameled steel ware. No. 129,136; Jan. 27; v. 270; p. 613.
Cleveland Motorcycle Manfg. Co., The., Cleveland, Ohio. Motorcycles. No. 130,022; Mar. 30; v. 272; p. 911.
Cleveland Osborn Manufacturing Company, Cleveland, Ohio. Wire brushes. No. 128,332; Jan. 6; v. 270; p. 178.
Cleveland Osborn Manufacturing Company, The, Cleveland, Ohio. Foundry supplies, &c. No. 135,954; Oct. 26; v. 279; p. 717.
Cleveland Pneumatic Tool Company, The, Cleveland, Ohio. Hose and pipe fittings and hose accessories. No. 137,158; Nov. 23; v. 280; p. 791.
Cleveland Tractor Company, Euclid, Ohio. Tractors and parts thereof. No. 135,175; Sept. 21; v. 278; p. 539.
Cleveland Twist Drill Co., Cleveland, Ohio. Boring drills, bits, and reamers. No. 137,973; Dec. 14; v. 281; p. 396.
Climax Lumber Company, Ltd., New Orleans, La. Rough hardwood lumber. No. 136,779; Nov. 9; v. 280; p. 378.
Clinton, Charles D., Co., Kingston, N. Y. Lotion for chapped hands, sunburn, salt-rheum, and chafing. No. 135,211; Sept. 28; v. 278; p. 701.
Clinton Wire Cloth Company, Boston, Mass., assignor to Clinton-Wright Wire Company. Wire-cloth and fencing of iron wire. No. 133,616; Aug. 3; v. 277; p. 171.
Clinton Wire Cloth Co., Clinton, Mass., assignor to Wickwire Spencer Steel Corporation. Woven-wire fabrics. No. 137,775; Dec. 7; v. 281; p. 195.
Clode, E. J., New York, N. Y. Printed books published in series. No. 134,615; Sept. 14; v. 278; p. 354.
Closgard Wardrobe Company, Washington, D. C. Folding wardrobes. No. 134,616; Sept. 14; v. 278; p. 354.
Clothing, Chipman Knitting Mills. No. 133,612; Aug. 3; v. 277; p. 171.
Cloud-Thomas Co., Yakima, Wash. Fresh fruits. No. 130,674; May 4; v. 274; p. 183.
Clover Leaf Manufacturing Company, Carbondale, Pa. Bobbins, reel-arms, fiber combs, lacing-rings, &c. No. 133,615; Aug. 3; v. 277; p. 171.
Clox-Lite Mfg. Company, Inc., Newark, N. J. Automatic circuit-controllers. No. 134,912; Sept. 21; v. 278; p. 530.
Coal Conservation Company, Boston, Mass. Substance for treating coal. No. 131,291; May 11; v. 274; p. 399.
Cobden Co. Inc., New York, N. Y. Ladies' blouses. No. 129,137; Jan. 27; v. 270; p. 614.
Coca-Cola Bottling Co., The, St. Louis, Mo. Grape-soda. No. 136,378; Nov. 2; v. 280; p. 180.
Coccaro, A. J., & Co., New York, N. Y. Clothing. No. 131,724; May 25; v. 274; p. 830.
Cochran, H. K., Company, Little Rock, Ark. Grain-seed. No. 130,282; Apr. 20; v. 273; p. 620.
Cochrane, T. H., Co., Portage, Wis. Field and garden seeds. No. 130,165; Apr. 13; v. 273; p. 401.
Cockshaw, Herbert. (See Arden, Mary, Corset Company, assignor.)
Cockshaw, Herbert, assignor to Mary Arden Corset Company, Inc., New York, N. Y. Corsets. No. 133,617; Aug. 3; v. 277; p. 171.
Cody, John P., Evansville, Ind. Caps and hats. No. 130,675; May 4; v. 274; p. 183.
Coe-Mortimer Company, New York, N. Y. Fertilizer. No. 131,725; May 25; v. 274; p. 830.
Coe-Stapley Manufacturing Corporation, Bridgeport, Conn. Automobile and bicycle pumps. No. 128,333; Jan. 6; v. 270; p. 178.
Coffin, Redington Co., San Francisco, Calif. Toilet powders and hair preparations. No. 129,440; Feb. 24; v. 271; p. 678.
Cohan, Roth & Stiffson, New York, N. Y. Men's cravats. No. 130,011; Mar. 23; v. 272; p. 731.
Cohen Bros. Company, Milwaukee, Wis. Men's shirts, pants, and coveralls. No. 129,340; Feb. 17; v. 271; p. 507.
Cohen Bros. Company, Milwaukee, Wis. Boys' shirts, blouses, rompers, &c. No. 129,650; Mar. 9; v. 272; p. 361.

Digitized by Google

Cohen Brothers Manufacturing Co., Inc., New York, N. Y. Textile fabrics. No. 135,955; Oct. 26; v. 279; p. 717.
Cohen, Charles S., Newark, N. J. Preparation for the amelioration of pyorrhea, &c. No. 128,654; Jan. 13; v. 270; p. 337.
Cohen & Ehrenberg, New York, N. Y. Light-weight all-wool worsted in the piece. No. 135,220; Sept. 28; v. 278; p. 702.
Cohen, Goldman & Co. Inc., New York, N. Y. Men's and children's outer garments. No. 131,067; May 4; v. 274; p. 195.
Cohen, Goldman & Co. Inc., New York, N. Y. Men's and children's outer garments, automobile-coats, bath-wraps, &c. No. 132,912; July 6; v. 276; p. 200.
Cohen, Goldman & Co., Inc., New York, N. Y. Men's, women's, and children's outer garments. No. 135,639; Oct. 19; v. 279; p. 527.
Cohen, Henry, & Co., New York, N. Y. Ladies' waists. No. 137,776; Dec. 7; v. 281; p. 195.
Cohen, Henry A., St. Louis, Mo. Candies, sugar-roasted peanuts, jellies. No. 136,379; Nov. 2; v. 280; p. 180.
Cohen, J. Robinson, & Bro., New York, N. Y. Ophthalmic lenses. No. 135,416; Oct. 12; v. 279; p. 342.
Cohen & Lang, Inc., New York, N. Y. Boys' suits and overcoats. No. 137,575; Nov. 30; v. 280; p. 996.
Cohen & Lang, Inc., New York, N. Y. Men's suits and overcoats. No. 137,576; Nov. 30; v. 280; p. 996.
Cohen, Nathan B., Scranton, Pa. Veils. No. 128,958; Jan. 20; v. 270; p. 472.
Cohen, Philip, New York, N. Y. Sanitary garbage-cans. No. 134,913; Sept. 21; v. 278; p. 530.
Cohen, Samuel, Baltimore, Md. Neckties. No. 137,577; Nov. 30; v. 280; p. 996.
Cohen, Samuel, & Sons, New York, N. Y. House and porch dresses, bath-robes, and dressing-sacks. No. 138,230; Dec. 21; v. 281; p. 563.
Cohn, Doris, New York, N. Y. Ladies' leather shoes. No. 130,676; May 4; v. 274; p. 183.
Cohn, Goldwater Company, Los Angeles, Calif. Men's and boys' athletic underwear. No. 134,617; Sept. 14; v. 278; p. 354.
Cohn, Goldwater Company, Los Angeles, Calif. Boys' blouses and shirts. No. 137,159; Nov. 23; v. 280; p. 791.
Cohn Hall Marx Co., New York, N. Y. Cotton piece goods. No. 131,479; May 18; v. 274; p. 603.
Cohn, J. & M., Inc., New York, N. Y. Ladies' waists and collars. No. 132,338; June 22; v. 275; p. 817.
Cohn & Rosenberger, Inc., New York, N. Y. Pocket-books, bill-cases, traveling-bags, and purses. No. 137,160; Nov. 23; v. 280; p. 791.
Coingum Manufacturing Company, Philadelphia, Pa. Chewing-gum. No. 130,475; Apr. 27; v. 273; p. 801.
Cole Motor Car Company, Indianapolis, Ind. Automobiles. No. 137,498; Nov. 23; v. 280; p. 803.
Coleman, Harry H., New York, N. Y. Walking dolls. No. 135,640; Oct. 19; v. 279; p. 527.
Coleman, Walter M., Baltimore, Md. Games played with cards. No. 133,389; July 27; v. 276; p. 768.
Coles, Elizabeth N., New York, N. Y. Hair-dressing and dandruff-oil. No. 129,441; Feb. 24; v. 271; p. 678.
Colgate & Co., Jersey City, N. J. and New York, N. Y. Soaps. No. 129,651; Mar. 9; v. 272; p. 361.
Colgate & Co., Jersey City, N. J., and New York, N. Y. Shaving-soap. No. 135,417; Oct. 12; v. 279; p. 342.
Collapsule Company, Inc., The, New York, N. Y. Medicament for the treatment of malignant blood diseases. Nos. 134,914–5; Sept. 21; v. 278; p. 530.
Colley, John W., Elkhart, Ind. Leather and fabric dressing. No. 133,619; Aug. 3; v. 277; p. 171.
Collier, J. Homer, Dawson, Ga. Liquid aspirin. No. 131,432; May 18; v. 274; p. 602.
Collier Mfg. Co., Barnesville, Ga. Men's, women's, and children's knit underwear. No. 137,163; Nov. 23; v. 280; p. 791.
Collings & Company, Newark, N. J. Talking-machine needles. No. 136,380; Nov. 2; v. 280; p. 180.
Collins, A. M., Manufacturing Company, Philadelphia, Pa. Printing coated paper, &c. No. 128,334; Jan. 6; v. 270; p. 178.
Collins, A. M., Manufacturing Company, Philadelphia, Pa. Coated relief overlay-paper. No. 132,648; June 29; v. 275; p. 1014.
Collins, A. M., Manufacturing Company, Philadelphia, Pa. Printing-ink. No. 132,649; June 29; v. 275; p. 1014.
Collins, A. M., Manufacturing Company, Philadelphia, Pa. Etching-powder. No. 132,650; June 29; v. 275; p. 1014.
Collins, A. M., Manufacturing Company, Philadelphia, Pa. Coated cardboard, bristol-board, and coated paper. No. 132,651; June 29; v. 275; p. 1014.
Collins-Hencke Candy Co., San Francisco, Calif. Candy. No. 135,641; Oct. 19; v. 279; p. 527.
Collins Safety Razor Company, Chicago, Ill. Safety-razors and mechanical stroppers for the blades thereof. No. 137,974; Dec. 14; v. 281; p. 396.
Collinsville Zinc Corporation, Collinsville, Ill. Sulfuric acid. No. 131,292; May 11; v. 274; p. 399.
Collinsville Zinc Corporation, Collinsville, Ill. Lithopone. No. 131,726; May 25; v. 274; p. 830.
Collis Products Company, Clinton, Iowa. Powdered buttermilk. No. 130,677; May 4; v. 274; p. 183.
Collis Products Company, Clinton, Iowa. Powdered buttermilk. No. 134,349; Aug. 31; v. 277; p. 971.
Colman, C. A., Company, New York, N. Y. Certain named textiles in the piece. No. 133,388; July 27; v. 276; p. 768.
Colonial Chemical Corporation, Reading, Pa. Disinfectant, deodorizer, and insecticide. No. 136,381; Nov. 2; v. 280; p. 180.
Colonial Preserve Company, Philadelphia, Pa. Canned fruits. No. 134,486; Sept. 7; v. 278; p. 159.
Colonial Works, Brooklyn, N. Y. Flat wall oil-paints, wood-stains, enamel and ready-mixed paints. No. 133,390; July 27; v. 276; p. 768.
Colorado Milling & Elevator Co., Denver, Colo., and Weiser, Idaho. Wheat-flour. No. 128,655; Jan. 13; v. 270; p. 337.
Colorado Milling & Elevator Co., The, Denver and Pueblo, Colo. Wheat-flour. No. 131,433; May 18; v. 274; p. 602.
Colorado Milling & Elevator Co., The, Denver, Colo. Wheat-flour. No. 134,229; Aug. 24; v. 277; p. 777.
Colorado Vanadium Corporation, Sawpit, Colo., and New York, N. Y. Ferrovanadium alloys. No. 137,161; Nov. 23; v. 280; p. 791.
Columbia Chemical Corporation, Roanoke, Va. Non-alcoholic syrup for making soft drinks. No. 129,275; Feb. 10; v. 271; p. 355.
Columbia Fastener Company, Chicago, Ill. Snap-fasteners. Nos. 130,283–4; Apr. 20; v. 273; p. 620.
Columbia Fastener Company, Chicago, Ill. Snap dress-fasteners. No. 130,285; Apr. 20; v. 273; p. 620.
Columbia Graphophone Company, New York, N. Y. Monthly magazine publications. No. 134,618; Sept. 14; v. 278; p. 354.
Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Talking-machine records. No. 135,212; Sept. 28; v. 278; p. 701.
Columbia Graphophone Manufacturing Co., Bridgeport, Conn. Weekly publication. No. 137,162; Nov. 23; v. 280; p. 791.
Columbia Manicure Mfg. Co., New York, N. Y. Manicuring implements. No. 130,673; May 4; v. 274; p. 183.
Columbia Mantel Company, Brooklyn, N. Y. Talking-machines. No. 138,231; Dec. 21; v. 281; p. 563.
Columbia Mineral Water Co., St. Louis, Mo. Non-alcoholic, non-cereal, maltless beverage. No. 136,780; Nov. 9; v. 280; p. 378.
Columbia Paint Co., Oakland, Calif. Wet mixed paint. No. 135,956; Oct. 26; v. 279; p. 717.
Columbia Postal Supply Company, Silver Creek, N. Y. Hand devices for stamp canceling and postmarking. No. 136,781; Nov. 9; v. 280; p. 378.
Columbia Produce Company, Columbia, Nashville, Waverly, McEwen, Dickson, Loretto, Lawrenceburg, Fayetteville, Petersburg, Chapel Hill, and Lewisburg, Tenn. Dressed poultry, butter, eggs. No. 128,856; Jan. 13; v. 270; p. 337.
Columbia Refining Co., New York, N. Y. Lubricating oils and greases. No. 134,916; Sept. 21; v. 278; p. 530.
Columbian Enameling & Stamping Co., Terre Haute, Ind. Enamel ware. No. 134,309; Aug. 24; v. 277; p. 781.
Columbian Rope Company, Auburn, N. Y. Twine. No. 128,335; Jan. 6; v. 270; p. 178.
Columbian Rope Company, Auburn, N. J. Rope of vegetable fiber. No. 129,652; Mar. 9; v. 272; p. 361.
Columbus Dental Manufacturing Company, The, Columbus, Ohio. Artificial teeth. No. 130,679; May 4; v. 274; p. 183.
Colwell Cooperage Company, Inc., New York, N. Y. Barrels, kegs, tubs, &c. No. 128,336; Jan. 6; v. 270; p. 179.
Colwell Cooperage Company, Inc., New York, N. Y. Receptacles and parts thereof. No. 128,337; Jan. 6; v. 270; p. 179.
Combination Rubber Mfg. Co., The, Bloomfield, N. J. Rubber tires. No. 129,653; Mar. 9; v. 272; p. 361.
Comfurta Hosiery Co., New York, N. Y. Hosiery and underwear. No. 135,418; Oct. 12; v. 279; p. 342.
Comins, J. F., & Co., New York, N. Y. Hosiery and knitted underwear. No. 137,578; Nov. 30; v. 280; p. 996.
Commander Mill Co., Minneapolis, Minn. Wheat-flour. No. 137,164; Nov. 23; v. 280; p. 791.
Commerce Motor Car Company, Detroit, Mich. Motor-trucks. No. 130,477; Apr. 27; v. 273; p. 801.
Commerce Publications Company Inc., New York, N. Y. Monthly magazines. No. 133,391; July 27; v. 276; p. 768.
Commercial Chemical Co., Memphis, Tenn. Plant-bug insecticide for use against potato-bugs, worms, &c. No. 129,442; Feb. 24; v. 271; p. 678.
Commercial Chemical Co., Memphis, Tenn. Insecticide, (non-poisonous.) No. 129,654; Mar. 9; v. 272; p. 361.
Commercial Chemical Co., Memphis, Tenn. Insecticides and germicides, deodorizers, &c., for disinfectant purposes. Nos. 135,642–3; Oct. 19; v. 279; p. 527.
Commercial Laboratories Inc., Newark, N. Y. Flavors for foods. No. 138,538; Dec. 28; v. 281; p. 785.
Commercial Milling Co., The, Detroit, Mich. Wheat-flour. No. 133,230; July 20; v. 276; p. 590.
Commercial Milling Co., The, Detroit, Mich. Pancake-flour. No. 134,350; Aug. 31; v. 277; p. 971.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Commercial Refining Co., Charleston, S. C. Vegetable oils. No. 136,782; Nov. 9; v. 280; p. 378.
Commercial Shirt Company, New York, N. Y. Cotton and silk piece goods. No. 128,338; Jan. 6; v. 270; p. 179.
Commercial Shirt Company, New York, N. Y. Dress shirts. No. 131,068; May 4; v. 274; p. 195.
Commercial Shirt Company, New York, N. Y. Cotton and silk piece goods. No. 132,118; June 15; v. 275; p. 616.
Commercial Shirt Company, New York, N. Y. Cotton and silk piece goods. No. 134,917; Sept. 21; v. 278; p. 530.
Commercial Shirt Company, New York, N. Y. Dress and negligée shirts. No. 135,419; Oct. 12; v. 279; p. 342.
Commercial Tea & Coffee Co., The, Boston, Mass. Coffee. No. 135,957; Oct. 26; v. 279; p. 717.
Commercial Union of America, Incorporated, New York, N. Y. Cabots. No. 130,478; Apr. 27; v. 273; p. 802.
Commonwealth Motors Co., Chicago, Ill. Pleasure-automobiles. No. 131,069; May 4; v. 274; p. 195.
Commonwealth Steel Company, St. Louis, Mo. Cradles, pilot-beams, end sills, &c. No. 130,166; Apr. 13; v. 273; p. 401.
Commonwealth Steel Company, St. Louis, Mo. Railway-cars and parts thereof. No. 130,680; May 4; v. 274; p. 183.
Commonwealth Thread Co. Inc., Boston, Mass. Thread used in the manufacture of shoes and known as "shoe-thread." Nos. 132,913–14; July 6; v. 276; p. 200.
Community Furnace Company, Covington, Ky. Hot-air furnaces. No. 128,657; Jan. 13; v. 270; p. 337.
Community Motion-Picture Bureau, New York, N. Y. Motion-picture films. No. 131,434; May 18; v. 274; p. 602.
Compagnie D'Applications Mecaniques, Paris, France. Bearings, belt-pulleys, &c. Nos. 136,382–3; Nov. 2; v. 280; p. 180.
Compagnie Francaise Des Boutons De La Marque, J. P., Paris, France. Shoe-buttons. No. 131,896; May 25; v. 274; p. 835.
Compound Injector & Specialty Co., Chicago, Ill. Plumbing fixtures and supplies. No. 130,479; Apr. 27; v. 273; p. 802.
Compressed Gas Corporation, Denver, Colo. Compressed oxygen and hydrogen gas. No. 129,344; Feb. 17; v. 271; p. 507.
Computing Cheese Cutter Co., Anderson, Ind. Computing cheese-cutters. No. 133,110; July 13; v. 276; p. 401.
Comstock, C. & F. W., Port Jefferson Station, N. Y. Cake and cookies. No. 133,936; Aug. 10; v. 277; p. 386.
Conard, George W., Philadelphia, Pa. Preparation for cleaning and polishing metal, glass, porcelain, and enamel. No. 137,166; Nov. 23; v. 280; p. 791.
Conard & Jones Company, The, West Grove, Pa. Rose-plants. No. 132,915; July 6; v. 276; p. 200.
Conceição, Julio, Santos, Brazil. Machines for injecting fluid into the ground for exterminating insects. No. 130,681; May 14; v. 274; p. 183.
Concordia Mill & Elevator Company, Concordia, Mo. Wheat-flour. No. 135,958; Oct. 26; v. 279; p. 717.
Condensed Food Company, Philadelphia, Pa., assignor to Armour Grain Company, Chicago, Ill. Partially cooked and prepared potatoes. No. 132,652; June 29; v. 275; p. 1014.
Condrell, Paul K., Kenmore, N. Y. Pure milk-chocolate bars containing roasted almonds and cocoanuts. No. 133,937; Aug. 10; v. 277; p. 386.
Condrell, Paul K., Kenmore, N. Y. Fruit-juice candy tablets. No. 136,384; Nov. 2; v. 280; p. 180.
Congoleum Company, The. Prepared floor-coverings of the oiled-cloth type. No. 134,918; Sept. 21; v. 278; p. 530.
Congoleum Company, Inc., New York, N. Y. Linoleum and cork carpet. No. 137,165; Nov. 23; v. 280; p. 791.
Conkey, G. E., Co., The, Cleveland, Ohio. Starting feed for chicks. Nos. 130,682–3; May 4; v. 274; p. 183.
Conklin, Horace E., Binghamton, N. Y. Seed-corn, grass and field seeds. No. 130,684; May 4; v. 274; p. 183.
Conklin Pen Manufacturing Co., The, Toledo, Ohio. Fountain-pens. No. 138,382; Dec. 21; v. 281; p. 569.
Conklin Pen Mfg. Co., The, Toledo, Ohio. Fountain-pens. No. 129,655; Mar. 9; v. 272; p. 361.
Conlon, Richard T., New York, N. Y. Compounds or powders for cleaning and finishing stone, &c., surfaces. No. 132,119; June 15; v. 275; p. 616.
Conn, C. G., Ltd., Elkhart, Ind. Wind musical instruments of the bugle and trumpet type. No. 134,619; Sept. 14; v. 278; p. 354.
Connecticut Electric Steel Co., Inc., Hartford, Conn. Wrought tool-steel, steel, iron, &c. No. 132,916; July 6; v. 276; p. 200.
Connecticut Telephone & Electric Company, Incorporated, The, Meriden, Conn. Detectors for wireless-telegraph apparatus. No. 130,685; May 4; v. 274; p. 183.
Connery, Edwin E., Minneapolis, Minn. Fresh fruit in packages and barrels. No. 131,293; May 11; v. 274; p. 399.
Connoisseur Corporation, The, New York, N. Y. Quarterly publication. No. 129,656; Mar. 9; v. 272; p. 361.
Connor, David, Vancouver, British Columbia, Canada. Canned salmon. No. 132,653; June 29; v. 275; p. 1014.
Consolidated Companies, Inc., Plaquemine, Morgan City, St. Martinville, New Roads, and White Castle, La. Canned corn, tomatoes, peas, canned oysters, shrimp, and syrup. No. 134,487; Sept. 7; v. 278; p. 159.
Consolidated Creameries, Inc., New York, N. Y. Canned condensed milk. No. 130,052; Apr. 6; v. 273; p. 179.
Consolidated Mills Company, High Point, N. C. Hosiery. No. 138,439; Dec. 28; v. 281; p. 782.
Consolidated Products Co., Lincoln, Nebr. Buttermilk as food for hogs and poultry. No. 137,749; Nov. 30; v. 280; p. 1003.
Consolidated Sales Company, Centralia, Mo. Garden preparation for killing bugs, worms, and vermin. No. 134,435; May 18; v. 274; p. 602.
Consolidated Tool Works, Inc., New York, N. Y. Calipers, and dividers for measuring purposes, &c. No. 130,286; Apr. 20; v. 273; p. 620.
Consolidated Tool Works, Inc., New York, N. Y. Drills, knives, &c. No. 136,783; Nov. 9; v. 280; p. 378.
Consolidated Wafer Company, New York, N. Y., and Chicago, Ill. Ice-cream cones. No. 128,959; Jan. 20; v. 270; p. 472.
Consumers Biscuit Company, New Orleans, La. Mixed biscuits. No. 135,862; Oct. 19; v. 279; p. 535.
Consumers Brewing Company, Philadelphia, Pa. Cereal beverages. No. 138,383; Dec. 21; v. 281; p. 569.
Continental Candy Corporation, Chicago, Ill. Candy. No. 137,167; Nov. 23; v. 280; p. 791.
Continental Candy Corporation, Chicago, Ill. Marshmallows. No. 138,232; Dec. 21; v. 281; p. 568.
Continental Castings Corp., New York, N. Y. Aluminum alloys. No. 134,163; Aug. 17; v. 277; p. 581.
Continental Drug Corporation, St. Louis, Mo. Hypophosphites compound and a non-alcoholic tonic. No. 128,658; Jan. 13; v. 270; p. 337.
Continental Lamp Works, Inc., New York, N. Y. Incandescent electric lamps. No. 136,385; Nov. 2; v. 280; p. 180.
Continental Seed Company, Chicago, Ill. Grass and field seeds. No. 132,917; July 6; v. 276; p. 200.
Continental Supply Company, The, St. Louis, Mo. Sheet-packing composed of rubber and fibrous materials. No. 137,022; Nov. 16; v. 280; p. 583.
Continuous Reaction Compy. Ltd., The, Battersea, London, England. Ferrotungsten alloy. No. 137,021; Nov. 16; v. 280; p. 583.
Contra-Pole Electric Company, Inc., New York, N. Y. Electrotherapeutic apparatus for generating high-frequency currents. No. 130,053; Apr. 6; v. 273; p. 180.
Contri, Andrea, Nevada, Iowa. Cheese. No. 138,537; Dec. 28; v. 281; p. 785.
Converse & Company, New York, N. Y. Towels and toweling. No. 131,727; May 25; v. 274; p. 830.
Converse Rubber Shoe Co., Malden, Mass. Boots and shoes of rubber, canvas, or combination. No. 130,686; May 4; v. 274; p. 183.
Converse Rubber Shoe Company, The, Malden, Mass. Boots or shoes made of or containing rubber. No. 131,728; May 25; v. 274; p. 830.
Converse Supply Company, The, Converse, Mo. Liniments, lotions, salves, &c., used in treating horses and cattle. No. 132,918; July 6; v. 276; p. 200.
Conway, C. C. and E. E., and T. P. Brown, trustees, Boston, Mass. Pianos. Nos. 135,213–15; Sept. 28; v. 278; p. 701.
Conway, Carle C., and Earle E., and Theodore P. Brown, Boston, Mass. Pianos. Nos. 134,919–23; Sept. 21; v. 278; p. 530.
Conway, Carle C., New York, N. Y.; Earle E. Conway, Boston, and Theodore P. Brown, Worcester, Mass., trustees. Pianos. Nos. 135,959–61; Oct. 26; v. 279; p. 717.
Cook, C. R., Paint Company, Kansas City, Mo. Creosote-oil used as a wood-preservative. No. 128,339; Jan. 6; v. 270; p. 179.
Cook, C. R., Paint Company, Kansas City, Mo. Liquid metal-polish. No. 136,784; Nov. 9; v. 280; p. 378.
Cook, Frank C., Denver, Colo. Remedy for relieving chronic constipation or biliousness, &c. No. 129,657; Mar. 9; v. 272; p. 361.
Cook, Homer F., Hadley, Mass. Corn brooms. No. 130,054; Apr. 6; v. 273; p. 180.
Cook, M. B., Company, The, Chicago, Ill. Carbon-paper. No. 129,658; Mar. 9; v. 272; p. 361.
Coonan, John. (See Roche, John, assignor.)
Cooper, Coate & Casey Dry Goods Co., Los Angeles, Calif., and New York, N. Y. Garments. No. 128,659; Jan. 13; v. 270; p. 337.
Cooper, Coate & Casey Dry Goods Co., Los Angeles, Calif., and New York, N. Y. Men's and women's night-wear. No. 130,287; Apr. 20; v. 273; p. 620
Cooper, Coate & Casey Dry Goods Co., Los Angeles, Calif., and New York, N. Y. Men's knitted union-suits. No. 133,621; Aug. 3; v. 277; p. 171.
Cooper, Coate & Casey Dry Goods Co., Los Angeles, Calif., and New York, N. Y. Dresses and aprons for women and children. No. 137,168; Nov. 23; v. 280; p. 791.
Cooper, Jack, New York, N. Y. Sweat-cabinet and an exercising apparatus. No. 132,919; July 6; v. 276; p. 200.
Cooper Underwear Company, Kenosha, Wis. Underwear. No. 131,070; May 4; v. 274; p. 195.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Cooper Underwear Company, Kenosha, Wis. Hosiery. No. 134,924; Sept. 21; v. 278; p. 530.
Co-Operative Drug Company, Inc., Wilmington, Del., and Philadelphia, Pa. Eye-water, (chlorbutanol,) worm-syrup, cold-cream. No. 138,440; Dec. 28; v. 281; p. 782.
Co-Operative Drug Company, Incorporated, Philadelphia, Pa. Face-cream. No. 135,962; Oct. 26; v. 279; p. 717.
Cope-Walton Co. Inc., The, New York, N. Y. Hand-soap. No. 134,620; Sept. 14; v. 278; p. 354.
Coppus Engineering and Equipment Company., Worcester, Mass. Hydraulic and centrifugal pumps and turbines. No. 128,660; Jan. 13; v. 270; p. 337.
Coradine, San Francisco, Calif. Face cream and lotion, hair-tonic, &c. Nos. 137,169–70; Nov. 23; v. 280; p. 791.
"Coraja" Manufacturing Co., The, Dallas, Tex. Tire-patches. No. 129,659; Mar. 9; v. 272; p. 361.
Coral Manufacturing Company, The, Norristown, Pa. Carpets and rugs formed of rags, cotton, &c. Nos. 133,392–4; July 27; v. 276; p. 768.
Cordis Mills, Millbury, Mass. Cotton piece goods. No. 129,505; Feb. 24; v. 271 p. 680.
Corkran, Hill & Co. Inc., Baltimore, Md. Hams. No. 134,310; Aug. 24; v. 277; p. 782.
Cormond, Francois, San Francisco, Calif. Bleaching fluid. No. 131,437; May 18; v. 274; p. 602.
Corn Belt Packing Company, Dubuque, Iowa. Ham, bacon, &c. No. 128,960; Jan. 20; v. 270; p. 472.
Corn Belt Packing Company, Dubuque, Iowa. Ham, bacon, and sugar-cured picnics. Nos. 129,276–7; Feb. 10; v. 271; p. 855.
Corn Belt Packing Company, Dubuque, Iowa. Kettle-rendered lard. No. 133,938; Aug. 10; v. 277; p. 386.
Corn Products Refining Co., New York, N. Y. Corn-starch. No. 130,480; Apr. 27; v. 273; p. 801.
Corning Glass Works, Corning, N. Y. Glass. No. 130,167; Apr. 13; v. 273; p. 401.
Corning Glass Works, Corning, N. Y. Condensing-lenses for projecting apparatus. No. 131,436; May 18; v. 274; p. 602.
Corning Glass Works, Corning, N. Y. Glass. No. 131,970; June 8; v. 275; p. 413.
Corning Glass Works, Corning, N. Y. Cut-glass and artistic glassware. Nos. 132,339–40; June 22; v. 275; p. 817.
Corning Glass Works, Corning, N. Y. Glass. No. 134,311; Aug. 24; v. 277; p. 782.
Corning, Perry, Yonkers, N. Y. Non-alcoholic beverage. No. 135,644; Oct. 19; v. 279; p. 527.
Corno Mills Company, St. Louis, Mo. Rolled oats. No. 130,687; May 4; v. 274; p. 183.
Corno Mills Company, The, St. Louis, Mo. Rolled oats. No. 133,395; July 27; v. 276; p. 768.
Cornwell, G. G., & Son, Inc., Washington, D. C. Ice-cream cones. No. 128,340; Jan. 6; v. 270; p. 179.
Corol Company, Chicago, Ill. Antirust slushing compounds. No. 129,443; Feb. 24; v. 271; p. 678.
Corona Rubber Reclaiming Co. (now by change of name Corona Rubber Manufacturing Company, Philadelphia, Pa. Inner tubes for automobiles, rubber packing, and rubber tires. No. 129,660; Mar. 9; v. 272; p. 361.
Corrasanti Chemical Co. Inc., Newark, N. J. Boiler compounds. No. 131,294; May 11; v. 274; p. 399.
Corrosanti Chemical Co. Inc., Newark, N. J. Anticorrosive paint. No. 133,231; July 20; v. 276; p. 590.
Cortland Line Co. Inc., Cortland, N. Y. Fishing-lines. No. 132,920; July 6; v. 276; p. 200.
Cortland Overall Co., Cortland, N. Y. Clothes—viz., overalls, shirts, and pants. No. 137,579; Nov. 30; v. 280, p. 996.
Cosby, W. M., Flour & Grain Co., Birmingham, Ala. Corn-meal. No. 134,230; May 2; v. 277; p. 777.
Cosmopolitan Film Company, New Orleans, La. Scenic and educational moving-picture films. No. 133,622; Aug. 3; v. 277; p. 171.
Coss, John H., Mansfield, Ohio. Sieves and chaffers for use in threshing-machines. No. 131,438; May 18; v. 274; p. 602.
Cossitt and Company, San Francisco, Calif. Photographic reproductions and prints. No. 137,171; Nov. 23; v. 280; p. 791.
Couch Bros. Manufacturing Co., East Point, Ga.; Memphis, Tenn., and Waterloo, Iowa. Tarpaulins, tents, and canvas covers. No. 137,975; Dec. 14; v. 281; p. 396.
Couch Bros. Manufacturing Company, Atlanta, Ga. Transmission brake-linings. No. 129,661; Mar. 9; v. 272; p. 361.
Coudrier, Fructus & Descher, Lyon, France, and New York, N. Y. Silk and velvet piece goods. No. 135,963; Oct. 26; v. 279; p. 717.
Countie, Charles J., Boston, Mass. Laxative pills. No. 129,662; Mar. 9; v. 272; p. 361.
Courtney, Robert A., Baltimore, Md. Blood-remedy compound, vegetable and mineral. No. 133,396; July 27; v. 276; p. 768.
Cousins, J. & T., Co., Brooklyn, N. Y. Boots and shoes. No. 132,121; June 15; v. 275; p. 616.
Cousins, J. & T., Co., Brooklyn, N. Y. Boots and shoes of leather and fabric. No. 132,341; June 22; v. 275; p. 817.
Covana Mfg. Co., Elizabeth, N. J. Sedatives and remedial preparations. No. 129,444; Feb. 24; v. 271; p. 678.
Coward, Albert T. H., Sheffield, England. Cutlery, machinery, and tools, and parts. No. 128,962; Jan. 20; v. 270; p. 472.
Cowden Manufacturing Co., St. Paul, Minn. Overalls. No. 130,688; May 4; v. 274; p. 184.
Cowley, James J., Passaic, N. J. Fuel-oils. No. 132,120; June 15; v. 275; p. 616.
Cox, Clarence L., Cleveland, Ohio. Surface finishing or treating compound. No. 137,172; Nov. 23; v. 280; p. 791.
Cox, Irwin W., Chicago, Ill. Cleanser and polish. No. 128,961; Jan. 20; v. 270; p. 472.
Cox, Warren R., Cleveland, Ohio. Electrical apparatus, machines, and supplies. Nos. 133,939–40; Aug. 10; v. 277; p. 386.
Cox, Will D., Charleston, W. Va. Medicine for goiter. No. 137,173; Nov. 23; v. 280; p. 791.
Crabbs Reynolds Taylor Co., Incorporated, Crawfordsville, Ind. Fertilizers. No. 130,168; Apr. 13; v. 273; p. 401.
Crabbs Reynolds Taylor Co., Incorporated, Crawfordsville, Ind. Garden-seed. No. 132,122; June 15; v. 275; p. 616.
Craddock-Terry Company, Lynchburg, Va. Children's shoes. No. 135,420; Oct. 12; v. 279; p. 342.
Craddock-Terry Company, Lynchburg, Va. Men's and boys' shoes of leather, &c. No. 137,976; Dec. 14; v. 281; p. 396.
Crafts, A. J., Piano Co. Inc., Richmond, Va. Pianos, organs, phonographs, and player-pianos. No. 135,645; Oct. 19; v. 279; p. 527.
Cramer & Casper, Enid, Okla. Preparation for the treatment of kidney, liver, and stomach troubles. No. 138,441; Dec. 28; v. 281; p. 782.
Cramer, G., Dry Plate Company, St. Louis, Mo. Photographic dry-plates and films. No. 134,312; Aug. 24; v. 277; p. 782.
Cramer, John F., Freeport, Ill. Canned fruits and vegetables, tea, &c. No. 128,341; Jan. 6; v. 270; p. 179.
Crandall, Walter C., Rensselaer, N. Y. Carpet and rugs made of selvages from cotton fabrics. No. 135,421; Oct. 12; v. 279; p. 342.
Crane, Clarence A., Cleveland, Ohio. Candy. No. 128,661; Jan. 13; v. 270; p. 337.
Crane, Clarence A., Cleveland, Ohio. Candy. No. 131,071; May 4; v. 274; p. 195.
Crane, Clarence A., Cleveland, Ohio. Chocolates. No. 131,729; May 25; v. 274; p. 830.
Crane, Clarence A., Cleveland, Ohio. Candy. Nos. 132,654–5; June 29; v. 275; p. 1014.
Crane, Clarence A., Cleveland, Ohio. Candy. No. 132,921; July 6; v. 276; p. 200.
Crane, Clarence A., Cleveland, Ohio. Candy. No. 133,111; July 13; v. 276; p. 401.
Crane, Clarence A., Cleveland, Ohio. Candy. Nos. 133,941–2; Aug. 10; v. 277; p. 386.
Crane, Clarence A., Cleveland, Ohio. Non-alcoholic maltless cola beverage. No. 134,488; Sept. 7; v. 278; p. 159.
Crane, Clarence A., Cleveland, Ohio. Candy. No. 134,490; Sept. 7; v. 278; p. 159.
Crane & Co., Dalton and Westfield, Mass. Writing-paper. No. 128,342; Jan. 6; v. 270; p. 179.
Crane, John, Maywood, Ill. Packing. No. 134,489; Sept. 7; v. 278; p. 159.
Crane, Z. & W. M., Dalton, Mass. Writing-paper and mailing-envelops. No. 129,663; Mar. 9; v. 272; p. 361.
Crary Brokerage Company, Waukesha, Wis. Canned vegetables—namely, peas and corn. No. 132,656; June 29; v. 275; p. 1014.
Crawford, James J., Los Angeles, Calif. Dried parts of ephedra-plant. No. 128,662; Jan. 13; v. 270; p. 337.
Crawford, McGregor & Canby Company, The, Dayton, Ohio. Golf-clubs. No. 128,963; Jan. 20; v. 270; p. 472.
Crawford McGregor and Canby Company, Dayton, Ohio. Golf-clubs. No. 130,689; May 4; v. 274; p. 184.
Crawford McGregor & Canby Company, The. Dayton, Ohio. Shoe-lasts. No. 134,621; Sept. 14; v. 278; p. 354.
Crawford, McGregor & Canby Company, The, Dayton, Ohio. Golf-clubs and golf-balls. No. 137,977; Dec. 14; v. 281; p. 396.
Crawford Tool and Manufacturing Co., Chicago, Ill. Dynamic balancing-machines. No. 135,964; Oct. 26; v. 279; p. 717.
Cream Products Co., Peoria, Ill. Candies. Nos. 134,351–2; Aug. 31; v. 277; p. 971.
Cree, Dugal, Chicago, Ill. Smoked, canned, and pickled meats. No. 132,657; June 29; v. 275; p. 1014.
Creel, Jasper H., Hattiesburg, Miss. Medicines and pharmaceutical preparations. No. 136,386; v. 280; p. 180.
Cremint Co., New York, N. Y. Packages of candy. No. 137,978; Dec. 14; v. 281; p. 396.
Crenshaw Bros. Produce Co., Inc., Tampa, Fla. Butter. No. 131,971; June 8; v. 275; p. 413.
Creole Praline Co. Inc., The, New Orleans, La. Candy. No. 137,979; Dec. 14; v. 281; p. 396.
Creotina Chemical Company, St. Louis, Mo. Remedy for cuts, bruises, burns, sprains, &c. No. 128,666; Jan. 13; v. 270; p. 337.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Cresca Company, New York, N. Y. Foods. No. 128,964; Jan. 20; v. 270; p. 472.
Crescent City Dye Sales Co. Inc., New York, N. Y. Dyes in soap form. No. 138,283; Dec. 21; v. 281; p. 563.
Crescent Coffee Mills, Inc., New Orleans, La. Coffee. No. 128,343; Jan. 6; v. 270; p. 179.
Crescent Coffee Mills, Inc., New Orleans, La. Coffee. Nos. 128,668–4; Jan. 13; v. 270; p. 337.
Crescent Coffee Mills, Inc., New Orleans, La. Tea. No. 128,665; Jan. 13; v. 270; p. 337.
Crescent Coffee Mills, Inc., New Orleans, La. Coffee. No. 128,667; Jan. 13; v. 270; p. 337.
Crescent Coffee Mills, Inc., New Orleans, La. Coffee. No. 129,345; Feb. 17; v. 271; p. 507.
Crescent Oil Co., Indianapolis, Ind. Cutting-oils. No. 128,344; Jan. 6; v. 270; p. 179.
Crescent Pump Company, Detroit, Mich. Vacuum and pressure air-pumps, liquid-pumps, and blowers. No. 133,628; Aug. 3; v. 277; p. 171.
Crescent-Refractories Company, Curwensville, Pa. Fire-brick and tile for metallurgical furnaces. No. 128,345; Jan. 6; v. 270; p. 179.
Crew Levick Company, Philadelphia, Pa. Lubricating oils and greases. No. 129,346; Feb. 17; v. 271; p. 507.
Crew Levick Company, Philadelphia, Pa. Illuminating, lubricating, and burning oils and greases. No. 138,388; Dec. 21; v. 281; p. 570.
Crew Levick Company, Philadelphia, Pa. Lubricating oils and greases. Nos. 138,384–7; Dec. 21; v. 281; pp. 569–70.
Crew Levick Company, Philadelphia, Pa. Lubricating oils and greases. No. 138,389; Dec. 21; v. 281; p. 570.
Crippen Company, Inc., The, New York, N. Y. Player-pianos and music-sheets therefor, talking-machines, and phonographs. No. 132,342; June 22; v. 275; p. 817.
Critz Manufacturing Company, Santa Maria, Calif. Hand-force-pump lubricating systems. No. 137,174; Nov. 23; v. 280; p. 791.
Crocker Broom & Brush Co., Chicago, Ill. Brooms. Nos. 128,346–9; Jan. 6; v. 270; p. 179.
Crocker Broom and Brush Co., Chicago, Ill. Brooms. No. 132,922; July 6; v. 276; p. 200.
Crocker Pen Company, Boston, Mass. Automatic pencils and fountain-pens. No. 137,980; Dec. 14; v. 281; p. 396.
Crockett, Albert S., New York, N. Y. Ouija-boards. No. 133,112; July 13; v. 276; p. 401.
Crockett & Weil, Alexandria, La. Sugar-cane syrups. No. 137,499; Nov. 23; v. 280; p. 803.
Croft & Allen Company, Philadelphia, Pa. Chocolate-candy confectionery. No. 137,777; Dec. 7; v. 281; p. 195.
Crogan, Charles W., Bangor, Me. Tape-measures. No. 138,180; Dec. 14; v. 281; p. 404.
Croker Packing Co., San Francisco, Calif. Canned fruits and vegetables. No. 131,295; May 11; v. 274; p. 399.
Croker Packing Co., San Francisco, Calif. Canned fruits, jams, and vegetables. No. 132,343; June 22; v. 275; p. 817.
Croker Packing Co., San Francisco, Calif. Canned vegetables and fruits, jams. No. 132,658; June 29; v. 275; v. 1014.
Croker Packing Co., San Francisco, Calif. Canned fruits, vegetables, and jams. No. 132,659; June 29; v. 275; p. 1014.
Croker Packing Co., San Francisco, Calif. Canned fruits and vegetables and fruit preserves. No. 137,175; Nov. 23; v. 280; p. 791.
Croll-Reynolds Co. Inc., New York, N. Y. Air-pumps. No. 136,785; Nov. 9; v. 280; p. 378.
Crome, Julia H., Clinton, Mo. Non-alcoholic non-cereal maltless beverage and syrup. No. 132,344; June 22; v. 275; p. 817.
Crooks, Abe, Toledo, Ohio. Transparent coating preparations for glass, &c. No. 128,350; Jan. 6; v. 270; p. 179.
Cross, A. T., Pencil Co., Providence, R. I. Fountain-pens, lead and drawing pencils. No. 129,664; Mar. 9; v. 272; p. 361.
Crossingham Knitting Mills, Philadelphia, Pa. Knitted underwear, suits for men, women, and children. No. 135,423; Oct. 12; v. 279; p. 342.
Crossman, George J., Newark, N. J. Music-roll ends. No. 131,730; May 25; v. 274; p. 830.
Crotty, Charley A., Sacramento, Calif. Hair-color restorer. No. 138,442; Dec. 28; v. 281; p. 782.
Crowe, Robert L., Memphis, Tenn. Chemical compound. No. 138,443; Dec. 28; v. 281; p. 782.
Crown Brewing Company, Cincinnati, Ohio. Non-alcoholic cereal beverage of malt nature. No. 135,424; Oct. 12; v. 279; p. 342.
Crown Cork and Seal Company of Baltimore City, The, Baltimore, Md. Extractors for bottle and jar closures. No. 136,387; Nov. 2; v. 280; p. 180.
Crown Cork and Seal Company of Baltimore City, The, Baltimore, Md. Monthly publications. No. 137,580; Nov. 30; v. 280; p. 996.
Crown Embroidery Works, New York, N. Y. Ladies' and misses' dresses in one and two piece garments. No. 133,624; Aug. 3; v. 277; p. 171.
Crown Overall Manufacturing Company, Cincinnati, Ohio. Overalls. No. 128,351; Jan. 6; v. 270; p. 179.
Crown Overall Manufacturing Company, The, Cincinnati, Ohio. Overalls. No. 130,690; May 4; v. 274; p. 184.
Crown Packing Company, Los Angeles, Calif. Fresh vegetables. No. 132,923; July 6; v. 276; p. 200.
Crown Perfumery Company, New York, N. Y. Cosmetics for the hair, perfumes, &c. No. 131,731; May 25; v. 274; p. 830.
Crown Ribbon and Carbon Mfg. Co., Rochester, N. Y. Carbon-paper and typewriter-ribbons. No. 133,945; Aug. 10; v. 277; p. 386.
Crucible Steel Company of America, Pittsburgh, Pa. Steel bars, rods, billets, &c. Nos. 129,188–42; Jan. 27; v. 270; p. 614.
Crucible Steel Company of America, Pittsburgh, Pa. Steel bars, rods, billets, blocks, forgings, &c. Nos. 130,691–2; May 4; v. 274; p. 184.
Crucible Steel Company of America, Pittsburgh, Pa. Steel bars, rods, billets, blooms, sheets, &c. No. 131,439; May 18; v. 274; p. 602.
Crucible Steel Company of America, Pittsburgh, Pa. Steel bars, racks, billets, blooms, plates, &c. No. 132,345; June 22; v. 275; p. 817.
Crucible Steel Company of America, Pittsburgh, Pa. Steel bars, rods, billets, blooms, &c. No. 134,164; Aug. 17; v. 277; p. 581.
Crusellas, Alberto, Habana, Cuba. Perfumes. No. 128,668; Jan. 13; v. 270; p. 337.
Crusellas, Alberto, Habana, Cuba. Perfumes. No. 129,665; Mar. 9; v. 272; p. 361.
Crystaline Salt Co., Jersey City, N. J., and Boston, Mass. Salt. No. 131,732; May 25; v. 274; p. 830.
Cudahy Packing Company, The, Chicago, Ill. Oil-soap. No. 129,666; Mar. 9; v. 272; p. 362.
Cullen-Stevens Co., Duluth, Minn. Polish for varnished and enameled surfaces. No. 132,346; June 22; v. 275; p. 817.
Cumberland (Aylestone), Limited, Leicester, England. Fishing rods, hooks, nets, lines, &c. No. 132,924; July 6; v. 276; p. 200.
Cummings, Charles C., St. Louis, Mo. Laundry soaps, soap tablets, and rug cleaners. No. 131,072; May 4; v. 274; p. 195.
Cunill de Figuerola, José, New York, N. Y. Automobiles and motor-trucks. No. 130,288; Apr. 20; v. 273; p. 620.
Cunningham, Mrs. J. C., East Liverpool, Ohio. Ointment for treatment of piles. No. 134,925; Sept. 21; v. 278; p. 530.
Cureton, Edward, San Francisco, Calif., assignor to John B. Studdert. Astringent treatment for sore soft bleeding gums, &c. No. 137,177; Nov. 23; v. 280; p. 791.
Currier, George H., Kansas City, Mo. Newspaper. No. 129,667; Mar. 9; v. 272; p. 362.
Curtainless Shower Company, The, New York, N. Y. Curtainless shower-baths. Nos. 137,178–80; Nov. 23; v. 280; pp. 791–2.
Curtainless Shower Company, The, New York, N. Y. Curtainless shower-baths. Nos. 137,910–11; Dec. 7; v. 281; pp. 200–1.
Curtin, John, Corp., New York, N. Y. Ice, coal, workmen's kit, &c., bags. No. 128,353; Jan. 6; v. 270; p. 179.
Curtin, John, Corp., New York, N. Y. Finished sails, truck and auto covers. No. 129,143; Jan. 27; v. 270; p. 614.
Curtin, John, Corporation, New York, N. Y. Tents, canopies, awnings, &c. No. 130,169; Apr. 13; v. 273; p. 401.
Curtis-Hosey Dryer Co., Philadelphia, Pa. Lumber-drying kilns No. 135,646; Oct. 19; v. 279; p. 527.
Curtiss Candy Co., Chicago, Ill. Candy. No. 135,422; Oct. 12; v. 279; p. 342.
Cushing, J., Co., Fitchburg, Mass. Poultry and stock feed. No. 131,972; June 8; v. 275; p. 413.
Cushing, J., Co., Fitchburg, Mass. Poultry and stock feeds. No. 132,660; June 29; v. 275; p. 1014.
Cushman, Wm. C., New York, N. Y. Chocolate syrup. No. 128,352; Jan. 6; v. 270; p. 179.
Cutler Desk Co., Buffalo, N. Y. Certain named office furniture. No. 133,397; July 27; v. 276; p. 768.
Cutter Tower Company, Inc., New York, N. Y. Tooth-picks. No. 135,965; Oct. 26; v. 279; p. 717.
Cyclone Grate-Bar Co., Buffalo, N. Y. Grate-bar for use with furnaces and stoves. No. 129,144; Jan. 27; v. 270; p. 614.
Cyclone Manufacturing Co., Inc., The, Urbana, Ind. Poultry-feeders. No. 138,539; Dec. 28; v. 281; p. 785.
D–A Lubricant Company, Washington, D. C., and Indianapolis, Ind. Lubricating-greases. No. 133,625; Aug. 3; v. 277; p. 171.
D. P. Stores Company, Norfolk, Va. Foods. No. 136,203; Oct. 26; v. 279; p. 724.
D. A. P. Confectionery, Inc., New York, N. Y. Candies and chocolates. No. 130,693; May 4; v. 274; p. 184.
D. D. D. Company, Chicago, Ill. Liquid for treatment of eye trouble. No. 134,926; Sept. 21; v. 278; p. 530.
Dachsel, C. A., & Son, Memphis, Tenn. Aid for kidney and bladder ailments. No. 129,668; Mar. 9; v. 272; p. 362.
Da Costa, Albert, Philadelphia, Pa. Olive-oil and olives. No. 130,170; Apr. 13; v. 273; p. 401.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Dafoe-Eustice Company, Detroit, Mich. Coal-bags. No. 130,057; Apr. 6; v. 273; p. 180.
Dafoe-Eustice Company, Detroit, Mich. Waterproof truck and tractor covers, tarpaulins, &c. No. 130,171; Apr. 13; v. 273; p. 401.
Dafoe-Eustice Company, Detroit, Mich. Golf-bags and tennis-racket covers. No. 130,481; Apr. 27; v. 273; p. 802.
Dahl, Frederick, East Orange, N. J. Medicinal preparation. No. 136,388; Nov. 2; v. 280; p. 180.
Dailey and Company, Incorporated, Brockport, N. Y. Jams, jellies, &c. No. 129,669; Mar. 9; v. 272; p. 362.
Dairy Products Company, The, Dayton, Ohio. Non-alcoholic non-cereal maltless beverage. No. 134,491; Sept. 7; v. 278; p. 159.
Daisy Products Company, Harrisburg, Pa. Candy. No. 131,936; June 1; v. 275; p. 199.
Daljar Mfg. Co., Boston, Mass. Lubricating oils and greases and lubricating cutting compounds. No. 131,733; May 25; v. 274; p. 830.
Daljar, Mfg. Co., Boston, Mass. Oils and greases. No. 136,389; Nov. 2; v. 280; p. 180.
Dallam, F. B., San Francisco, Calif. Wrapping-paper. No. 137,181; Nov. 23; v. 280; p. 792.
Dallas Saturday Night Company, The, Dallas, Tex. Newspapers. No. 134,622; Sept. 14; v. 278; p. 354.
Daltex Milk Products Company, Dallas, Tex. Milk, buttermilk, and cream. No. 132,123; June 15; v. 275; p. 616.
Dalton Hosiery Mills, Dalton, Ga. Hosiery. No. 133,232; July 20; v. 276; p. 590.
Damaske, William, Seattle, Wash. Insecticides. No. 128,672; Jan. 13; v. 270; p. 337.
Damhorst, C., Soda Water Co., St. Louis, Mo. Non-alcoholic, non-cereal, maltless beverages. No. 136,786; Nov. 9; v. 280; p. 378.
Damsey, Bessie, New York, N. Y. Pajamas and kimonos. No. 137,581; Nov. 30; v. 280; p. 996.
Dancy, Lucius H., Holly Springs, Miss. Preparation for the treatment of the hair. No. 137,182; Nov. 23; v. 280; p. 792.
Danda-Halpern Co., Inc., New York, N. Y. Hand-bags. No. 133,626; Aug. 3; v. 277; p. 171.
Danielson-Gardanier Manufacturing Company, Chicago, Ill. Broaches, expanding burnishers, wrenches, &c. No. 137,981; Dec. 14; v. 281; p. 396.
Dannenhirsch, Max, Philadelphia, Pa. Compound for stopping leaks in radiators, boilers, &c. No. 128,669; Jan. 13; v. 270; p. 337.
Dantzler, Mortimer O., Orangeburg, S. C. Nuts. No. 131,073; May 4; v. 274; p. 195.
Darnell-Love Lumber Company, Leland, Miss. Hardwood lumber. No. 129,979; Mar. 16; v. 272; p. 539.
Darr, J. M., Company, Inc., Gretna, La. Chemical rust-remover. No. 135,966; Oct. 26; v. 279; p. 717.
Darst, James C., Portsmouth, Va. Pockets for garments. No. 133,398; July 27; v. 276; p. 768.
Darwin & Milner, Inc., New York, N. Y. Compound anhydrous salts. No. 128,354; Jan. 6; v. 270; p. 179.
Darwin & Milner, Inc., New York, N. Y. Bar-steel and steel castings. No. 129,145; Jan. 27; v. 270; p. 614.
Dash, Allan J., Olean, N. Y. Medicinal balm for inflammations. No. 128,673; Jan. 13; v. 270; p. 337.
Daski, Peter, Ottawa, Canada. Hair-tonic. No. 131,440; May 18; v. 274; p. 602.
Daum Rogers Spritzer Co., New York, N. Y. Hosiery. No. 130,694; May 4; v. 274; p. 184.
Davenport Hosiery Mills, Chattanooga, Tenn. Hosiery. No. 137,183; Nov. 23; v. 280; p. 792.
David, Geo. M., Barre, Vt. Laundry-tablets. No. 131,074; May 4; v. 274; p. 195.
Davidson, Arthur C., New York, N. Y. Steel. No. 128,670; Jan. 13; v. 270; p. 337.
Davidson Brothers, Chula Vista, Calif. Organic chemicals. No. 135,221; Sept. 28; v. 278; p. 702.
Davidson Leroy E., Buffalo, N. Y. Moving-picture films. No. 133,233; July 20; v. 276; p. 590.
Davies, Richard T., Placentia, Calif. Fresh oranges. No. 135,425; Oct. 12; v. 279; p. 342.
Davies, Rose & Co. Ltd., Boston, Mass. Pharmaceutical preparations. No. 136,390; Nov. 2; v. 280; p. 180.
Davies, Rose & Co., Ltd. Boston, Mass. Medicinal, toilet, &c., preparations. No. 136,787; Nov. 9; v. 280; p. 378.
Davies, Rose & Co., Ltd., Boston, Mass. Non-alcoholic, non-cereal, maltless beverage. No. 136,788; Nov. 9; v. 280; p. 378.
Davies, Rose & Co., Ltd., Boston, Mass. Antiseptic throat-wash and gargle powder and tablets. No. 137,184; Nov. 23; v. 280; p. 792.
Davies, Rose & Co., Ltd., Boston, Mass. Indigestion-powders. No. 137,185; Nov. 23; v. 280; p. 792.
Davies, Rose & Co., Ltd., Boston, Mass. Ointment for skin affections of the human body. No. 137,186; Nov. 23; v. 280; p. 792.
Davies, Rose & Co., Ltd., Boston, Mass. Kidney medicine. No. 137,187; Nov. 23; v. 280; p. 792.
Davies, William, Company, Limited, Chicago, Ill. Bacon, hams, lard, &c. No. 128,355; Jan. 6; v. 270; 179.
Davies, William, Company, Chicago, Ill. Foods and ingredients of food. No. 128,965; Jan. 20; v. 270; p. 472.
Davies, William, Company, Limited, Chicago, Ill. Bacon, sausage, and canned lunch-tongue, &c. No. 128,966; Jan. 20; v. 270; p. 472.
Davies, William, Company, Limited, Chicago, Ill. Foods and ingredients of food. No. 128,967; Jan. 20; v. 270; p. 472.
Davies, William, Company, Limited, Chicago, Ill. Bacon, hams, lard, &c. No. 130,695; May 4; v. 274; p. 184.
Davis and Andrews Company, Memphis, Tenn. Cornmeal. No. 135,426; Oct. 12; v. 279; p. 342.
Davis, Archie M., Columbus, Ohio. Medicinal preparation for rheumatism, stomach and kidney trouble, neuralgia, &c. No. 136,391; Nov. 2; v. 280; p. 180.
Davis-Bournonville Company, New York, N. Y., and Jersey City, N. J. Sealing-powder for welding cast-iron. No. 136,392; Nov. 2; v. 280; p. 180.
Davis-Bournonville Company, New York, N. Y., and Jersey City, N. J. Flux-powder for welding or brazing brass, bronze, and malleable iron. No. 136,393; Nov. 2; v. 280; p. 180.
Davis, Bournonville Company, New York, N. Y., and Jersey City, N. J. Flux-powder for welding aluminum. No. 137,582; Nov. 30; v. 280; p. 996.
Davis, Charles, Paris, France. Perfumery. No. 132,661; June 29; v. 275; p. 1014.
Davis, Charles C., Chicago, Ill. Twines, ropes, strings, and cordage. No. 129,980; Mar. 16; v. 272; p. 539.
Davis, Charles C., Chicago, Ill. Clothes lines. No. 132,925; July 6; v. 276; p. 200.
Davis, Charles C., Chicago, Ill. Twines, string, and cordage, of cotton, jute, hemp, and flax. No. 133,113; July 13; v. 276; p. 401.
Davis, Charles C., Chicago, Ill. Clotheslines. No. 133,627; Aug. 3; v. 277; p. 171.
Davis Co., H. E., Freeport, Me. Women's leather shoes. No. 130,482; Apr. 27; v. 273; p. 802.
Davis, Elroy R., Paris, Me. Bolt-hooks and ice-tongs. No. 131,206; May 11; v. 274; p. 399.
Davis, H. E., Co., Freeport, Me. Women's leather shoes. No. 137,188; Nov. 23; v. 280; p. 792.
Davis, Harry E., London, England. Chemical preparation for matting, etching, or frosting glass. No. 136,394; Nov. 2; v. 280; p. 180.
Davis, Irving L., Dayton, Ohio. Beverages. No. 136,395; Nov. 2; v. 280; p. 180.
Davis, Joseph C., Johnstown, Pa. Liquid cleaner for fabrics, &c. No. 129,670; Mar. 9; v. 272; p. 362.
Davis & Lawrence Company, New York, N. Y. Menthol salve. No. 132,347; June 22; v. 275; p. 817.
Davis, Lester H., Lindsborg, Kans. Coffee. No. 132,926; July 6; v. 276; p. 200.
Davis, M., & Sons, Textile Co., Inc., New York, N. Y. Garment-linings in the piece. No. 135,427; Oct. 12; v. 279; p. 342.
Davis, N. C., Winchester, Mass. Cleaner and polisher for phonograph-records. No. 132,348; June 22; v. 275; p. 817.
Davis Sewing Machine Co., The Dayton, Ohio. Bicycles. No. 136,789; Nov. 9; v. 280; p. 378.
Dawson, Clarence O., Blair, Nebr. Canned vegetables. Nos. 133,946–9; Aug. 10; v. 277; p. 386.
Dawson-Davis Company, Inc., Boston, Mass. Wheat-flour. No. 137,982; Dec. 14; v. 281; p. 396.
Dawson Metals Inc., New York, N. Y. Hardened copper as a metal or alloy. No. 136,396; Nov. 2; v. 280; p. 180.
Day-Elder Motors Corporation, Newark, N. J. Trailers, semitrailers, and automotive vehicles. Nos. 132,662–3; June 29; v. 275; p. 1015.
Day, Horace L., Company, New York, N. Y. Sugar. No. 131,441; May 18; v. 274; p. 602.
Day, William A., Bellingham, Wash. Solder. No. 132,349; June 22; v. 275; p. 817.
Deaderick, Sallie B., Fort City, Pa. Remedy for falling hair, dandruff, and scalp diseases. No. 134,492; Sept. 7; v. 278; p. 159.
Dean & Williams Co., Chicago, Ill. Combination garment-hanger. No. 136,397; Nov. 2; v. 280; p. 180.
Dearborn Baking Co., The, Aurora, Ind. Bread. No. 136,398; Nov. 2; v. 280; p. 180.
Dearborn Chemical Company, Chicago, Ill. Lubricating oils and greases. No. 132,350; June 22; v. 275; p. 817.
De Beer, J., & Son, Albany, N. Y. Baseballs. No. 133,114; July 13; v. 276; p. 401.
Debow & Co., Newark, N. J. Eggs. No. 135,222; Sept. 28; v. 278; p. 702.
Debow & Co., Newark, N. J. Butter. No. 136,399; Nov. 2; v. 280; p. 180.
De Bruyn, Limited, London, England. Edible oils and fats. No. 137,983; Dec. 14; v. 281; p. 396.
De Burgos Luque, Juan, Aguilar de la Frontara, Spain. Wines. No. 135,005; Sept. 21; v. 278; p. 533.
Decatur Brewing Co., Decatur, Ill. Malt extract for food purposes. No. 135,967; Oct. 26; v. 279; p. 717.
Decatur Pumps & Mfg. Co., Decatur, Ill. Pumps, water-supply, and storage systems and parts thereof. No. 136,400; Nov. 2; v. 280; p. 180.
Decker, Jacob E., & Sons, Mason City, Iowa. Hams, bacon, and picnic hams. No. 133,950; Aug. 10; v. 277; p. 386.
Deco Co., The, New York, N. Y. Leather goods. No. 134,623; Sept. 14; v. 278; p. 354.
Deco Co., The, New York, N. Y. Jewelry. No. 134,624; Sept. 14; v. 278; p. 354.
Deco Co., The, New York, N. Y. Clothing. No. 135,968; Oct. 26; v. 279; p. 717.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Deeds & Chapin, Indianapolis, Ind. Cementing composition for joining metal, especially steel. No. 133,628; Aug. 3; v. 277; p. 171.
Deep Sea Salmon Company, Seattle, Wash. Canned salmon. No. 129,445; Feb. 24; v. 271; p. 678.
De-Fi Manufacturing Company, New York, N. Y. Carbon-paper and typewriter-ribbons. No. 138,234; Dec. 21; v. 281; p. 563.
De Forest Radio Telephone and Telegraph Company, New York, N. Y. Wireless telegraph and telephone apparatus. Nos. 134,313–14; Aug. 24; v. 277; p. 782.
Deftic Company, Inc., New York, N. Y. Preparations for treatment of the hair and scalp. No. 137,193; Nov. 23; v. 280; p. 792.
Deister Concentrator Company, The, Fort Wayne, Ind. Ore-concentrators. No. 130,483; Apr. 27; v. 273; p. 802.
De Goenaga, Augusto H., Detroit, Mich. Tooth-paste. No. 132,351; June 22; v. 275; p. 817.
De Grandmont, E., Inc., New York, N. Y. Cotton, silk, and cotton and silk piece goods. No. 129,671; Mar. 9; v. 272; p. 362.
De Jesus, José, New York, N. Y. Medicinal treatment for malaria. No. 129,672; Mar. 9; v. 272; p. 362.
Delahanty, Edmund J., Fall River, Mass. Non-alcoholic beverages and syrups for making the same. No. 131,734; May 25; v. 274; p. 830.
Delano Company, Inc., The, Syracuse, N. Y. Antiseptic. No. 138,444; Dec. 28; v. 281; p. 782.
De Laval Separator Company, New York, N. Y. Pneumatic pumps. No. 128,671; Jan. 13; v. 270; p. 337.
De Laval Separator Company, The, New York, N. Y. Milking machinery. No. 137,984; Dec. 14; v. 281; p. 897.
Delaware Electric & Supply Co., Wilmington, Del. Composition roofing and covering for pipes. No. 131,075; May 4; v. 274; p. 195.
Delaware Electric & Supply Co., Wilmington, Del. Coal-stoves. No. 131,973; June 8; v. 275; p. 413.
Delaware Electric & Supply Co., Wilmington, Del. Bath-tubs, lavatories, water-closets, &c. No. 132,124; June 15; v. 275; p. 616.
Delaware Electric & Supply Co., Wilmington, Del. Canvas and belting hose, machinery packing and tires. No. 136,401; Nov. 2; v. 280; p. 180.
Delaware Electric & Supply Co., Wilmington, Del. Beltings, hose, packings, and tires. No. 137,189; Nov. 23; v. 280; p. 792.
Delfino, Dr. Enrico Parodi, Milan, Italy. Preserved cherries. No. 132,352; June 22; v. 275; p. 817.
Delite Manufacturing Co., The, Bryan, Ohio. Clothes-washing machines. No. 133,630; Aug. 3; v. 277; p. 171.
Dell, Vella, New York, N. Y. Hair-tonic and hair-growing preparation. No. 132,353; June 22; v. 275; p. 817.
Dellapi, Andrea, Altoona, Pa. Remedy for rheumatism. No. 129,347; Feb. 17; v. 271; p. 507.
Delmonico, Charles C., New York, N. Y. Candy. No. 133,952; Aug. 10; v. 277; p. 387.
De Long Hook and Eye Company, The, Philadelphia, Pa. Hooks and eyes. No. 131,076; May 4; v. 274; p. 195.
De Long Hook and Eye Company, The, Philadelphia, Pa. Hooks and eyes. No. 131,898; May 25; v. 274; p. 835.
De Long Hook and Eye Company, Philadelphia, Pa. Hair-pins, snap-fasteners, &c. No. 131,974; June 8; v. 275; p. 413.
De Luca, John A., St. Helena, Md. Mayonnaise dressing, chilli-chow, and marshmallow preparation. No. 130,696; May 4; v. 274; p. 184.
De Luca, John A., St. Helena, Md. Baking-powder. No. 132,354; June 22; v. 275; p. 817.
De Luxe Brush Company, Wilmington, Del., and Philadelphia, Pa. Shaving-creams for use before shaving. No. 135,647; Oct. 19; v. 279; p. 527.
De Luxe Clock & Mfg. Co. Inc., New York, N. Y. Alarm clock and other clocks. No. 130,058; Apr. 6; v. 273; p. 180.
De Luxe Thread Corp., New York, N. Y. Sewing-Cotton. No. 134,353; Aug. 31; v. 277; p. 971.
De Luxe Thread Corp., New York, N. Y. Sewing-cotton. No. 136,402; Nov. 2; v. 280; p. 180.
De Master and De Master, Pittsburgh, Pa. Stove and nickel polishes. No. 138,181; Dec. 14; v. 281; p. 404.
De Milo Distributing Co., New York, N. Y. Knitted underwear. No. 133,234; July 20; v. 274; p. 590.
De Montmorency, Beresford B. Chicago, Ill. Teas. No. 133,908; Aug. 10; v. 277; p. 385.
Denney & Co., Chicago, Ill. Fresh apples. No. 132,355; June 22; v. 275; p. 817.
Denney Tag Company, West Chester, Pa. Shipping-tags. Nos. 128,356–60; Jan. 6; v. 270; p. 179.
Denny and Denny, Philadelphia, Pa. Perfumes, toilet waters, face-powders, &c. No. 131,207; May 11; v. 274; p. 399.
Dennis, Joseph K., Boston, Mass. Salt fish. Nos. 131,975–6; June 8; v. 275; pp. 413–4.
De Nobili Cigar Co., Inc., Long Island City and New York, N. Y. Cigars. No. 134,625; Sept. 14; v. 278; p. 355.
De Nordiske Fabriker De-No-Fa Aktieselskab, Christiania, Norway. Fats. No. 128,861; Jan. 6; v. 270; p. 179.
De Nordiske Fabriker De No Fa Aktieselokab, Christiania, Norway. Abrasive, detergent, and polishing materials. No. 133,631; Aug. 3; v. 277; p. 171.
De Nordiske Fabriker De-No-Fa, Aktieselskab, Christiania, Norway. Refined and unrefined fats. No. 133,951; Aug. 10; v. 277; p. 387.
De Nordiske Fabriker, De-No-Fa, Aktieselskap, Christiania, Norway. Refined and unrefined fats used in the manufacture of ointment. No. 134,626; Sept. 14; v. 278; p. 355.
De Nordiske Fabriker, De-No-Fa, Christiania, Norway. Refined and unrefined fats and fats used as a base for medicinal ointments. No. 135,648; Oct. 19; v. 279; p. 527.
De Nordiske Fabriker, De-No-Fa, Aktieselskab, Christiania, Norway. Refined and unrefined fats, used as paint and varnish vehicles and driers. No. 136,790; Nov. 9; v. 280; p. 378.
De Nordiske Fabriker, De-No-Fa, Aktieselskab, Christiania, Norway. Greases. No. 136,791; Nov. 9; v. 280; p. 378.
De Nordiske Fabriker, De-No-Fa, Aktieselskab, Christiania, Norway. Fats. No. 137,985; Dec. 14; v. 281; p. 397.
Dental Products Company, Chicago, Ill. Surgical appliances. No. 133,115; July 13; v. 276; p. 401.
Dental Products Company, Chicago, Ill. Anasthetic tablets. No. 134,927; Sept. 21; v. 278; p. 530.
Dentamina Trading Co., The, New York, N. Y. Toothache remedy. No. 134,499; Sept. 7; v. 278; p. 160.
Denthol Company, The, Louisville, Ky. Antiseptic mouth and tooth wash. No. 137,583; Nov. 30; v. 280; p. 996.
Dentists' Supply Company, The, New York, N. Y. Artificial teeth. No. 135,649; Oct. 19; v. 279; p. 527.
Dentocide Chemical Co., The, Baltimore, Md. Tooth-paste. No. 134,627; Sept. 14; v. 278; p. 355.
Denver Fire Clay Company, Denver, Colo. Hydrocarbon burners and furnaces. No. 130,172; Apr. 13; v. 273; p. 402.
Denver Gas & Electric Light Company, Denver, Colo. Wood-preservative. No. 129,446; Feb. 24; v. 271; p. 678.
Denver Powerine Company, The, Denver, Colo. Gasolene. No. 131,899; May 25; v. 274; p. 835.
Denzer, Goodhart & Co., New York, N. Y. Men's hats. No. 137,190; Nov. 23; v. 280; p. 792.
Deodoral Company, Hasbrouck Heights, N. J. Deodorant cream and deodorant powder. No. 129,673; Mar. 9; v. 272; p. 362.
De Palma, Frank, Brooklyn, N. Y. Shaving-cream. No. 134,628; Sept. 14; v. 278; p. 355.
De Pew, Thomas H., Canton, Ohio. Phonographs and records. No. 130,059; Apr. 6; v. 273; p. 180.
De Pilis, F. A., Mattoax, Va. Cigars, cigarettes, chewing and smoking tobacco. No. 133,399; July 27; v. 276; p. 768.
Depree Chemical Company, The, Holland, Mich. Complexion and talcum powders, toilet-water, complexion and almond cream. No. 132,356; June 22; v. 275; p. 817.
Derby, John H., Rockledge, Fla. Citrus fruits and avocados. No. 131,442; May 18; v. 274; p. 602.
Derf Manufacturing Company, New York, N. Y. Spark-plugs. No. 130,289; Apr. 20; v. 273; p. 620.
Derryvale Linen Company, New York, N. Y. Linen and cotton piece goods, towels, handkerchiefs, &c. No. 129,674; Mar. 9; v. 272; p. 362.
Derryvale Linen Company, New York, N. Y. Textiles. Nos. 130,060–1; Apr. 6; v. 273; p. 180.
Dery, George M., South Bethlehem, Pa. Cigarettes. No. 128,362; Jan. 6; v. 270; p. 179.
Desch, Barbara M., Columbia, Pa. Remedy for lung trouble. No. 132,664; June 29; v. 275; p. 1015.
Deshler Broom Factory, Deshler, Nebr. Brooms and whisk-brooms. Nos. 130,697–8; May 4; v. 274; p. 184.
Designers Instrument Company, Chicago, Ill. Intermittent fountain ruling-pens. No. 133,235; July 20; v. 276; p. 590.
Deslauriers Column Mould Co., New York, N. Y. Steel molds for concrete. No. 137,191; Nov. 23; v. 280; p. 792.
Des Moines Glove & Mfg. Company, Inc., Des Moines, Iowa. Gloves and mittens made of horsehide. No. 128,363; Jan. 6; v. 270; p. 179.
De Soto Coffee Company, Savannah, Ga. Coffee and chicory. No. 129,348; Feb. 17; v. 271; p. 507.
Despol, Anton, Palo Alto, Calif. Auto-body polish. No. 133,632; Aug. 3; v. 277; p. 171.
Dessauer, Earl H., Omaha, Nebr. Soda-water and non-alcoholic maltless cereal syrups. No. 132,125; June 15; v. 275; p. 616
Deter-Sol Sales Company, Denver, Colo. Preparation to preserve and renew platens. No. 132,357; June 22; v. 275; p. 817.
Detmer Woolen Co., New York, N. Y. Semi-annual periodical publication. No. 135,969; Oct. 26; v. 279; p. 717.
Detroit Automatic Scale Company, Detroit, Mich. Weighing-scales. No. 128,364; Jan. 6; v. 270; p. 179.
Detroit Creamery Company, Detroit, Mich. Ice-cream. No. 134,231; Aug. 24; v. 277; p. 777.
Detroit Heating & Lighting Company, Detroit, Mich. Bunsen burners. No. 128,674; Jan. 13; v. 270; p. 337.
Detroit Reamer & Tool Co., The, Detroit, Mich. Tools. No. 137,192; Nov. 23; v. 280; p. 792.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Detroit Show Case Company, Detroit, Mich. Knockdown store-fronts and parts thereof. No. 135,970; Oct. 26; v. 279; p. 717.
Detroit Soluble Oil Co., Detroit, Mich. Core-oils and adhesive core compounds. No. 133,116; July 13; v. 276; p. 401.
Detroit Stove Works, Detroit, Mich. Prepared steel stove-linings. No. 130,290; Apr. 20; v. 273; p. 620.
Detroit Stove Works, Detroit, Mich. Heating and cooking stoves, and parts of same. No. 135,971; Oct. 26; v. 279; p. 717.
Detroit Twist Drill Co., Detroit, Mich. Drills. No. 131,443; May 18; v. 274; p. 602.
Detroit Vapor Stove Company, The, Detroit, Mich. Gas, oil, and coal burning stoves. No. 130,062; Apr. 6; v. 273; p. 180.
Deutsch Brothers, New York, N. Y. Photographs. Nos. 129,675–6; Mar. 9; v. 272; p. 362.
Deutsche Conservierungsgesellschaft mit beschrankter Haftung, Marienfelde, near Berlin, Germany. Preservative compound for preserving articles of food. No. 131,444; May 18; v. 274; p. 602.
Deutsche Conservierungsgesellschaft mit beschrankter Haftung, Marienfelde, near Berlin, Germany. Pitch for use in breweries. No. 132,126; June 15; v. 275; p. 616
Deveau Packing Co., New York, N. Y., and Green Hill, Pa. Canned mushrooms. No. 137,194; Nov. 23; v. 280; p. 792.
De Vilbiss Manufacturing Company, Toledo, Ohio. Powder-blowers for use in medicine and surgery. No. 130,699; May 4; v. 274; p. 184.
Devoe & Raynolds Company, Inc., New York, N. Y. Paints and painters' materials. No. 129,849; Feb. 17; v. 271; p. 508.
De Vol, P. C., Hardware Company, Council Bluffs, Iowa. Air-heating furnace, coal-heated. No. 130,173; Apr. 13; v. 273; p. 402.
Devore, W. W., Cincinnati, Ohio. Coffee substitute. No. 131,735; May 25; v. 274; p. 830.
De Vries, G. E., & Co., Arnhem, Netherlands. Paper and stationery. No. 135,972; Oct. 26; v. 279; p. 717.
De Waltoff, Gerald M., Brooklyn, N. Y. Medicines and pharmaceutical preparations. No. 137,205; Nov. 23; v. 280; p. 792.
Dew Valve Co., Inc., New York, N. Y Automatic relief-valves for steam-engine cylinders. No. 132,927; July 6; v. 276; p. 200.
Dewey & Almy Chemical Company, Cambridge, Mass. Adhesives. No. 135,366; Sept. 28; v. 278; p. 706.
Dewey, H. S. & Sons Co., New York, N. Y. Non-intoxicating non cereal maltless beverage. No. 132,127; June 15; v. 275; p. 616.
Dewey, H. T. & Sons Co., New York, N. Y. Non-intoxicating non-cereal maltless beverage. No. 132,358; June 22; v. 275; p. 817.
Dexter, C. H., & Sons, Incorporated, Windsor Locks, Conn. Paper. No. 135,973; Oct. 26; v. 279; p. 718.
Dexter, Eugene A., Springfield, Mass. Bread. No. 129,146; Jan. 27; v. 270; p. 614.
De Ybarra, Hijos, Seville, Spain. Common soap. No. 137,747; Nov. 30; v. 280; p. 1002.
D'Eyraud, Louis, Los Angeles, Calif. Automobile-windshield cleaners. No. 137,590; Nov. 30; v. 280; p. 997.
Diament, John E., Company, Cedarville, N. J. Canned pears and tomatoes. No. 137,195; Nov. 23; v. 280; p. 792.
Diamond Grinder Company, Cedar Falls, Iowa. Grist-mills. No. 133,633; Aug. 3; v. 277; p. 171.
Diamond Salt Brick Co., Memphis, Tenn. Salt bricks for stock. No. 129,677; Mar. 9; v. 272; p. 362.
Diamond Shoe Co., New York, N. Y. Men's and women's boots, shoes, and slippers. No. 135,223; Sept. 28; v. 278; p. 702.
Diamond State Fibre Company, Elsmere, Del., and Bridgeport, Pa. Parchmentized fiber, sheets, rods, tubes, and disks. No. 130,700; May 4; v. 274; p. 184.
Diamond State Fiber Company, Elsmere, Del., and Bridgeport, Pa. Electrical insulation and insulating objects. No. 133,953; Aug. 10; v. 277; p. 387.
Dibble, Louis G., Shortsville, N. Y. Bassinettes. No. 134,629; Sept. 14; v. 278; p. 355.
Dick, W. B., & Company, Inc., New York, N. Y. Lubricating oils and greases. No. 134,630; Sept. 14; v. 278; p. 355.
Dickelman, C. O., Co., Milwaukee, Wis. Poultry feed. No 131,937; June 1; v. 275; p. 199.
Dickinson Drug Co., Los Angeles, Calif. Tonic, powders, ointment, and cream. No. 128,675; Jan. 13; v. 270; p. 337.
Dickinson & Co., Eureka, Ill. Canned vegetables. No. 138,540; Dec. 28; v. 281; p. 785.
Dickson, W. R., San Francisco, Calif. Suitcases and traveling-bags. No. 137,986; Dec. 14; v. 281; p. 397.
Dickson, William T., Glasgow, Scotland. Silk piece goods. No. 132,128; June 15; v. 275; p. 616.
Dickson, William T., Glasgow Scotland. Clothing. No. 135,650; Oct. 19; v. 279; p. 527.
Diebolt Brewing Co., Cleveland, Ohio. Non-intoxicating beverage. No. 128,865; Jan. 6; v. 270; p. 179.
Diehnelt, Walter, Milwaukee, Wis. Pure food products. No. 137,196; Nov. 23; v. 280; p. 792.
Diemont-Levy Company, Boston, Mass. Paints and painters' materials. No. 129,850; Feb. 17; v. 271; p. 508.
Dierke, Charles, Portland, Oreg. Toothbrushes. No. 134,493; Sept. 7; v. 278; p. 159.
Dietetic Cellulose Company, Chicago, Ill. Flours and meals employed for making dietetic foods. No. 133,954; Aug. 10; v. 277; p. 387.
Diggs, Howard M., East Orange, N. J. Punches. No. 130,291; Apr. 20; v. 273; p. 620.
Dill & Collins Co., Philadelphia, Pa. Printing, writing, wrapping, &c., papers. No. 129,678; Mar. 9; v. 272; p. 362.
Dill & Collins Co., Philadelphia, Pa. Paper and stationery. No. 129,679; Mar. 9; v. 272; p. 362.
Dillow, Guy G., St. Louis, Mo. Laxative tablets. No. 134,631; Sept. 14; v. 278; p. 355.
Diller Mfg. Co., The, Bluffton, Ohio. Fireless cookers. No. 132,928; July 6; v. 276; p. 200.
Dimoulis and Spiliotakaras, Aberdeen, S. D. Medicine for treatment of rheumatism. No. 136,792; Nov. 9; v. 280; p. 378.
Dings Magnetic Separator Company, Milwaukee, Wis. Lifting-magnets, magnetic separators, and screens. No. 138,390; Dec. 21; v. 281; p. 570.
Dinstman & Lasko, Inc., New York, N. Y. Watchcases. No. 131,445; May 18; v. 274; p. 602.
Dismuke, Ed. E., Mineral Wells, Tex. Concentrated natural mineral-well water. No. 132,129; June 15; v. 275; p. 616.
Disston, Henry, & Sons, Incorporated, Philadelphia, Pa. Saws. No. 130,484; Apr. 27; v. 273; p. 802.
Disston, Henry, & Sons, Philadelphia, Pa. Magneto-files and tools for cleaning spark-plugs. No. 131,298; May 11; v. 274; p. 399.
Distinctive Jewelry Co. Inc., New York, N. Y. Jewelry for personal wear, not including watches. No. 132,929; July 6; v. 276; p. 200.
Di-Testa Co., New Haven, Conn. Salve for scalp maladies. No. 131,299; May 11; v. 274; p. 399.
Dittlinger, H., Roller Mills Company, New Braunfels, Tex. Wheat-flour. No. 128,676; Jan. 13; v. 270; p. 337.
Dittlinger, H., Roller Mills Company, New Braunfels, Tex. Wheat-flour. No. 128,968; Jan. 20; v. 270; p. 472.
Dittmann, George F., Boot & Shoe Co., St. Louis, Mo. Rubber boots. No. 137,197; Nov. 23; v. 280; p. 792.
Dittrich, August C., Chicago, Ill. Clocks. No. 133,634; Aug. 3; v. 277; p. 171.
Divine Dwight & Sons, Ellenville, N. Y. Knives. Nos. 130,489–90; Apr. 27; v. 273; p. 802.
Divine, Dwight & Sons, Ellenville, N. Y. Pocket, pen, kitchen knives, &c. No. 130,706; May 4; v. 274; p. 184.
Divine, Dwight, & Sons, Ellenville, N. Y. Knives. No. 131,448; May 18; v. 274; p. 602.
Dixie Fruit Products Corporation, New York, N. Y. Vinegar. No. 134,282; Aug. 24; v. 277; p. 777.
Dixie Fruit Products Corporation, New York, N. Y. Canned vegetables. No. 134,354; Aug. 31; v. 277; p. 971.
Dixie Motor Car Company, Louisville, Ky. Pleasure motor-cars. No. 130,012; Mar. 23; v. 272; p. 781.
Dixie Refining Co., Memphis, Tenn. Lard compound. No. 130,174; Apr. 13; v. 273; p. 402.
Dixon, Joseph, Crucible Company, Jersey City, N. J. Pencils. Nos. 131,079–87; May 4; v. 274; p. 195.
Dixon, Joseph, Crucible Company, Jersey City, N. J. Belt-dressing. No. 132,130; June 15; v. 275; p. 616.
Dixon, Joseph, Crucible Company, Jersey City, N. J. Rubber erasers. Nos. 134,928–9; Sept. 21; v. 278; p. 530.
Dixon, Joseph, Crucible Company, Jersey City, N. J. Pencils. No. 136,403; Nov. 2; v. 280; p. 180.
Dobrickas, Apolinaras, Camp Merritt, N. J. Liquid blood-purifying preparation. No. 135,224; Sept. 28; v. 278; p. 702.
Dobson Novelty Company, Harrison, N. J. Hairpins. No. 135,651; Oct. 19; v. 279; p. 527.
Dockendorff, J. E., & Co., Inc., New York, N. Y. Insulating materials for electrical purposes. No. 131,736; May 25; v. 274; p. 830.
Dockendorff, J. E., & Co. Inc., New York, N. Y. Electrical apparatus, machines, and supplies. No. 133,117; July 13; v. 276; p. 401.
Dockendorff, J. E., & Co. Inc., New York, N. Y. Electrical supplies. Nos. 133,118–9; July 13; v. 276; p. 401.
Dockendorff, J. E., & Co. Inc., New York, N. Y. Nickel-manganese-alloy wire for electrical purposes. No. 133,120; July 13; v. 276; p. 401.
Dodd, Philip S., Babylon, N. Y. Composition packing. No. 133,121; July 13; v. 276; p. 401.
Dodge, A., & Son Corp., Beverly, Mass. Wheat-flour, bran, middlings, &c. No. 133,955; Aug. 10; v. 277; p. 387.
Dodge, Sweeney & Co., San Francisco, Calif. Canned fruits, vegetables, and fish, &c. No. 138,235; Dec. 21; v. 281; p. 563.
Dodo Board Company, East Cleveland, Ohio. Games—namely, ring-toss boards and apparatus to be used therewith. No. 136,404; Nov. 2; v. 280; p. 180.
Dodson, Carroll E., Kansas City, Mo. Portable phonographs. No. 132,666; June 29; v. 275; p. 1015.
Dodson, Fisher, Brockmann Co., Minneapolis, Minn. Shoelaces. No. 131,977; June 8; v. 275; p. 414.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Doernberg & Stein, New York, N. Y. Women's drawers, bloomers, corset-covers, &c. No. 129,351; Feb. 17; v. 271; p. 508.
Dogan, Earl V., Washington, D. C. Scouring preparation to remove grease from clothing, &c. No. 137,584; Nov. 30; v. 280; p. 997.
Dold, Jacob, Packing Co., Buffalo, N. Y. Lard. No. 135,428; Oct. 12; v. 279; p. 342.
Dold, Jacob, Packing Co., Buffalo, N. Y. Foods. No. 137,198–9; Nov. 23; v. 280; p. 792.
Dold, Jacob, Packing Co., Buffalo, N. Y. Foods. No. 137,203; Nov. 23; v. 280; p. 792.
Dollfus-Mieg & Cie. Societe Anonyme, Mulhouse, Germany. Threads and yarns made of wool. No. 129,147; Jan. 27; v. 270; p. 614.
Dollfus Mieg & Cie. Societe Anonyme, Mülhausen, Germany. Threads and yarns. No. 129,279; Fev. 10; v. 271; p. 355.
Dollfus-Mieg & Cie. Societe Anonyme, Mülhouse, Germany. Alsatian braids of silk, linen, &c. Nos. 130,175–6; Apr. 13; v. 273; p. 402.
Dollfus-Mieg & Cie, Societé Anonyme, Mülhouse, Germany. Braids and passementerie. Nos. 131,088–92; May 4; v. 274; pp. 195–6.
Dolph, John C., Company, Newark, N. J. Insulating material. No. 133,956; Aug. 10; v. 277; p. 387.
Domestic Electric Company, Cleveland, Ohio. Electric motors, motor frames and parts. No. 132,131; June 15; v. 275; p. 616.
Domestic Engineering Company, The, Dayton, Ohio. Current generating and distributing system for lighting and power purposes. No. 129,148; Jan. 27; v. 270; p. 614.
Dominant Products Co., New York, N. Y. Liquid metal-polish. No. 137,200; Nov. 23; v. 280; p. 792.
Donavan, Paul J., Denver, Colo. Spark-plugs. No. 135,974; Oct. 26; v. 279; p. 718.
Dongan Electric Manufacturing Co., Detroit, Mich. Transformers. No. 137,201; Nov. 23; v. 280; p. 792.
Donmeyer, Gardner Co., Peoria, Ill. Wheat-flour. No. 129,149; Jan. 27; v. 270; p. 614.
Donmeyer, Gardner Co., Peoria, Ill. Wheat-flour. No. 130,485; Apr. 27; v. 273; p. 802.
Donmeyer, Gardner Co., Peoria, Ill. Wheat-flour. Nos. 134,233–4; Aug. 24; v. 277; p. 777.
Donmeyer, Gardner Co., Peoria, Ill. Mixed feeds for horses, cattle, hogs, &c. No. 135,225; Sept. 28; v. 278; p. 702.
Donnelly, W. J., Company, The, Detroit, Mich. Waterproof automobile textile material, &c. No. 134,632; Sept. 14; v. 278; p. 355.
Don-O-Lac Co., Inc., The, Rochester, N. Y. Prepared liquid varnish resembling shellac. No. 133,236; July 20; v. 276; p. 590.
Donovan, R. J., Co. of New York, Inc., New York, N. Y. Hardware and steam-fitting supplies. No. 131,737; May 25; v. 274; p. 830.
Dorfman, Meyer, New York, N. Y. Knitted jersey cloth in the piece. No. 129,957; Mar. 9; v. 272; p. 370.
Dorman, W. H., & Co., Limited, Stafford, England. Metallic pipes and unions and sections. No. 135,652; Oct. 19; v. 279; p. 527.
Dorothy Dodd Shoe Company, Boston, Mass. Footwear. No. 135,368; Sept. 28; v. 278; p. 707.
Dorothy Dodd Shoe Company, Boston, Mass. Boots, shoes, slippers, and spats. No. 137,778; Dec. 7; v. 281; p. 195.
Dorris Milling Company, Nashville, Tenn. Wheat-flour. No. 131,093; May 4; v. 274; p. 196.
Dothan Syrup Co., Dothan, Ala. Corn and cane syrup. No. 128,366; Jan. 6; v. 270; p. 179.
Douglas Company, Cedar Rapids, Iowa. Corn-oil. No. 137,987; Dec. 14; v. 281; p. 397.
Douglas Paint Oil Co., Chicago, Ill. Linseed-oil substitute. No. 134,633; Sept. 14; v. 278; p. 355.
Douglass Barnes Corporation, New York, N. Y. Ladies' sport-coats, sweaters, slip-ons, &c. No. 128,969; Jan. 20; v. 270; p. 472.
Dourde et Cie., Paris, France. Barometers. No. 129,150; Jan. 27; v. 270; p. 614.
Dow Pump and Diesel Engine Company, Alameda, Calif. Pumps, condensers, and engines. No. 133,635; Aug. 3; v. 277; p. 171.
Dowjat, Boleslaw, New Britain, Conn. General medicinal tonic. No. 135,918; Oct. 26; v. 279; p. 716.
Doyle, Henry J., Lyndhurst, N. J. Sun-shields for automobiles. No. 134,355; Aug. 31; v. 277; p. 971.
Drackett, P. W., and Sons Company, The, Cincinnati, Ohio. Washing compound. No. 132,359; June 22; v. 275; p. 817.
Dramafilms, New York, N. Y. Motion-picture films. No. 130,486; Apr. 27; v. 273; p. 802.
Draper-Carter Drug Co., Helena, Ark. Salve for the treatment of croup, pneumonia, and asthma. No. 129,680; Mar. 9; v. 272; p. 362.
Draper Corporation, Hopedale, Mass. Looms and parts thereof. No. 134,315; Aug. 24; v. 277; p. 782.
Draper Corporation, Hopedale, Mass. Looms, and parts of looms and textile machinery and accessories. No. 135,863; Oct. 19; v. 279; p. 535.
Draper Manufacturing Company, Port Huron, Mich. Hollow balanced balls of brass or other metal. No. 130,487; Apr. 27; v. 273; p. 802.
Draper, Thomas B., Oakland, Calif. Convertible furniture. No. 133,400; July 27; v. 276; p. 768.
Drish, Louis N., Memphis, Tenn. Preparation for use in treatment of the liver and kidney, &c. No. 129,447; Feb. 24; v. 271; p. 678.
Driver-Harris Company, Harrison, N. J. Wire, rods, sheets, &c., composed of metals or alloys of metals. No. 131,300; May 11; v. 274; p. 399.
Driver-Harris Company, Harrison, N. J. Electrical goods. No. 131,738; May 25; v. 274; p. 830.
Driver-Harris Company, Harrison, N. J. Resistance material in the form of sheets, strips, &c. No. 131,739; May 25; v. 274; p. 830.
Driver-Harris Company, Harrison, N. J. Metal castings. No. 132,667; June 29; v. 275; p. 1015.
Driver-Harris Company, Harrison, N. J. Wire and metallic strips of an alloy containing manganese. No. 133,287; July 20; v. 276; p. 590.
Driver, J. E., & Co., Mayodan, N. C. Preparation for piles. No. 129,352; Feb. 17; v. 271; p. 508.
Drobinski, Felix I., Brooklyn, N. Y. Eye-wash. No. 128,677; Jan. 13; v. 270; p. 337.
Droelle & Vital, Detroit, Mich. Puzzle. No. 130,701; May 4; v. 274; p. 184.
Drug Products Co., Inc., New York, N. Y. Medicinal powders, capsules, &c. No. 134,494; Sept. 7; v. 278; p. 159.
Druggists Commercial Alliance Inc., New York, N. Y. Blood-purifier and preparations for certain diseases. No. 135,975; Oct. 26; v. 279; p. 718.
Druggists Concentrates Co., Pittsburgh, Pa. Toilet preparations. No. 134,635; Sept. 14; v. 278; p. 355.
Drulard, Lee, Detroit, Mich. Wrenches and socket-wrench sets. No. 131,301; May 11; v. 274; p. 399.
Drum Medicine Company, The, Salisbury, N. C. Medicinal preparation for stomach, nerves, and liver. No. 130,702; May 4; v. 274; p. 184.
Drury Engineering Company, Evansville, Ind. Electric-lighting plants for farms. No. 133,636; Aug. 3; v. 277; p. 171.
Druschel, Henry, Columbia, Pa. Hoisting machinery. No. 135,976; Oct. 26; v. 279; p. 718.
Dry Climate Tire Manufacturing Company, The, Arvada, Colo. Vehicle-tires made of rubber. No. 129,681; Mar. 9; v. 272; p. 362.
Dry Milk Company, The, New York, N. Y. Dry milk. No. 133,122; July 13; v. 276; p. 401.
Dryfoos, Sidney O. E., New York, N. Y. Clothing. No. 135,653; Oct. 19; v. 279; p. 527.
Dubin, Charles, Philadelphia, Pa. Hand-needles for forming ornamental loops on fabrics. No. 135,654; Oct. 19; v. 279; p. 527.
Du Bois, Lee E., Houston, Tex. Breakfast cereal. No. 129,280; Feb. 10; v. 271; p. 355.
Dubois Watch Case Company, Brooklyn, N. Y. Watches. No. 132,930; July 6; v. 276; p. 200.
Dudcliff & Company, Chicago, Ill. Shoes. No. 131,094; May 4; v. 274; p. 196.
Duff Manufacturing Company, Pittsburgh, Pa. Drop-forged parts. No. 131,302; May 11; v. 274; p. 399.
Duffee, J. W., Mfg. Co., The, Washington Court House, Ohio. Tonic laxative, for constipation, sluggish liver, headache, &c. No. 132,860; June 22; v. 275; p. 817.
Duffy, Leinster, New Bern, N. C. Medicinal remedy for chills, fevers, colds, &c. No. 131,446; May 18; v. 274; p. 602.
Dugas-Hundley Corporation, New York, N. Y. Dyes. No. 128,678; Jan. 13; v. 270; p. 338.
Dulle, G. H., Milling Co., Jefferson City, Mo. Flour made from wheat. No. 133,957; Aug. 10; v. 277; p. 387.
Duluth Creamery & Produce Company, Duluth, Minn. Ice cream and butter. No. 134,356; Aug. 31; v. 277; p. 971.
Duluth Floral Company, Duluth, Minn. Seeds, shrubbery, cut flowers, bulbs, plants, and other nursery stock. No. 132,132; June 15; v. 275; p. 616.
Dunbar Molasses & Syrup Co., New Orleans, La. Syrup and molasses. No. 137,500; Nov. 23; v. 280; p. 803.
Duncan Coffee Co., Houston, Tex. Coffee. No. 130,703; May 4; v. 274; p. 184.
Duncan Coffee Co., Houston, Tex. Coffee in cans. No. 137,585; Nov. 30; v. 280; p. 997.
Duncan Lumber Company, Portland, Oreg. Printed trade pamphlets, circulars, books, &c., pertaining to the lumber business. No. 137,989; Dec. 14; v. 281; p. 397.
Dundas Food Products Corporation, Philadelphia, Pa. Macaroni. No. 137,990; Dec. 14; v. 281; p. 397.
Dundas Food Products Corporation, Philadelphia, Pa. Wheat-flour and macaroni. No. 137,991; Dec. 14; v. 281; p. 397.
D'Under, Sebastian V., Fall River, Mass. Trading-stamps or coupons. No. 138,358; Dec. 21; v. 281; p. 567.
Dungan, Hood & Co., Inc., Philadelphia, Pa. Leather and particularly kid leather. No. 132,931; July 6; v. 276; p. 200.
Dungan, Hood & Co., Inc., Philadelphia, Pa. Leather, particularly kid-leather. No. 137,586; Nov. 30; v. 280; p. 997.
Dunham Company, The, Berea, Ohio. Soil-tilling machines. No. 133,401; July 27; v. 276; p. 768.
Dunham Company, The, Berea, Ohio. Earth-working implements—namely, corrugated rollers and soil-pulverizers. No. 133,402; July 27; v. 276; p. 768.

Alphabetical list of registrants of trade-marks—Continued.

Dunham Company, The, Berea, Ohio. Soil-tilling machines. No. 134,030; Sept. 20; v. 278; p. 531.

Dunham, James H., & Co., New York, N. Y. Hosiery. No. 132,361; June 22; v. 275; p. 817.

Dunham, James H., & Co., New York, N. Y. Velvet piece goods. No. 135,226; Sept. 28; v. 278; p. 702.

Dunham, James H., & Co., New York, N. Y. Cotton linings. No. 137,501; Nov. 23; v. 280; p. 803.

Dunhill, Alfred, St. James, London, England. Articles for smokers. No. 135,429; Oct. 12; v. 279; p. 342.

Dunlop Rubber Company Limited, London, England. Tires made of india-rubber. No. 137,023; Nov. 16; v. 280; p. 583.

Dunlop Rubber Company, Limited, The, Regents Park, London, England. Golf-balls. No. 137,202; Nov. 23; v. 280; p. 792.

Dunn Medicine Co., Inc., Birmingham, Ala. Medicinal compound for the treatment of blood, kidney, heart, &c. No. 129,682; Mar. 9; v. 272; p. 362.

Dunn, Morris V., Brooklyn, N. Y. Cosmetics—viz., face-powders and rouges. Nos. 129,448–51; Feb. 24; v. 271; p. 678.

Duplan Silk Corporation, New York, N. Y. Broad-silk piece goods. Nos. 134,931–5; Sept. 21; v. 278; p. 531.

Duplan Silk Corporation, New York, N. Y. Broad-silk piece goods. Nos. 135,227–32; Sept. 28; v. 278; p. 702.

Duplan Silk Corporation, New York, N. Y. Broad-silk piece goods. Nos. 135,430–1; Oct. 12; v. 279; p. 342.

Duplan Silk Corporation, New York, N. Y. Broad-silk piece goods. Nos. 135,655–6; Oct. 19; v. 279; p. 527.

Duplan Silk Corporation, New York, N. Y. Broad-silk piece goods. No. 135,977; Oct. 26; v. 279; p. 718.

Duplex Engine-Governor Company, Inc., Brooklyn, N. Y. Governors for engines. No. 129,970; Jan. 20; v. 270; p. 472.

Duplicator Manufacturing Company, Chicago, Ill. Carbon-paper, &c. No. 129,683; Mar. 9; v. 272; p. 362.

Du Pont, E. I., de Nemours, Wilmington, Del. Powder. No. 129,684; Mar. 9; v. 272; p. 362.

Du Pont, E. I., de Nemours & Company, Wilmington, Del. Collodion. No. 129,685; Mar. 9; v. 272; p. 362.

Du Pont, E. I., de Nemours & Company, Wilmington, Del. High explosive of dynamite type. No. 130,704; May 4; v. 274; p. 184.

Du Pont, E. I. de Nemours & Company, Wilmington, Del. Lacquers. No. 132,367; June 22; v. 275; p. 817.

Du Pont, E. I., de Nemours & Company, Wilmington, Del. Granular and gelatinous explosives. No. 133,288; July 20; v. 276; p. 590.

Du Pont, E. I., de Nemours & Company, Wilmington, Del. Explosives. No. 137,988; Dec. 14; v. 281; p. 397.

Dupuis Chemical Co., Los Angeles, Calif., and El Paso, Tex. Insecticide and germicide. No. 131,303; May 11; v. 274; p. 399.

Duquesne Burner Service Company, Pittsburgh, Pa. Oil and gas burners. No. 138,541; Dec. 28; v. 281; p. 786.

Dural Rubber Corporation, Flemington, N. J. Inner tubes for vehicle-tires. No. 133,123; July 13; v. 276; p. 401.

Duran & Davalos, New York, N. Y. Evaporated bananas. No. 137,992; Dec. 14; v. 281; p. 397.

Durand Company, Boston, Mass. Candy. No. 137,204; Nov. 23; v. 280; p. 792.

Duratex Company, The, Newark, N. J. Waterproofed textile fabric. No. 132,362; June 22; v. 275; p. 817.

Durfee, Lydia M., Springfield, Mass. Mechanical hair-extractor. No. 130,705; May 4; v. 274; p. 184.

Durham, Charles L., Salina, Kans. Blow-out patch for automobile tire casings. No. 136,405; Nov. 2; v. 280; p. 180.

Durling, Calvin J., Trenton, N. J. Ointment for lung congestion, croup, &c. No. 131,447; May 18; v. 274; p. 602.

Duro Company, The, East Orange, N. J. Spark-plug and contact-point cleaner. No. 137,024; Nov. 16; v. 280; p. 583.

Dutt Drug Company, The, Akron, Ohio. Alterative and a medicine used in the treatment of certain named diseases. No. 135,657; Oct. 19; v. 279; p. 527.

Duttenhofer-Stevens Co., The, Cincinnati, Ohio. Women's high and low shoes of leather and cloth. No. 132,932; July 6; v. 276; p. 200.

Dutton, George C., Boston, Mass Games. No. 130,488; Apr. 27; v. 273; p. 802.

Duty Motor Co., Greenville, Ill. Automobiles. No. 135,432; Oct. 12; v. 279; p. 342.

Dwight Divine & Sons, Ellenville, N. Y. Knives. No. 133,637; Aug. 3; v. 277; p. 171.

Dwork, Joseph H., Newark, N. J. Rubber tires and inner tubes. No. 137,587; Nov. 30; v. 280; p. 997.

Dyer, W. H., Company, Evansville, Ind. Fruit jam, preserves, jelly, and table-syrup. No. 132,933; July 6; v. 276; p. 200.

Dymalkon Metals Corporation, New York, N. Y. Honor-rolls, bas-reliefs, and memorial tablets. No. 130,707; May 4; v. 274; p. 184.

Dymalkon Metals Corporation, New York, N. Y. Architectural bronze-work for building exteriors and interiors. No. 131,095; May 4; v. 274; p. 196.

E. Gal, Sociedad En Comandita, Madrid, Spain. Toilet powders. No. 129,341; Feb. 17; v. 271; p. 507.

E. Gal, Sociedad En Comandita, Madrid, Spain. Toilet lotions. No. 129,342; Feb. 17; v. 271; p. 507.

E. Gal, Sociedad En Comandita, Madrid, Spain. Toilet extracts. No. 129,343; Feb. 17; v. 271; p. 507.

E. Gal, Sociedad En Comandita, Madrid, Spain. Soaps. No. 129,715; Mar. 9; v. 272; p. 363.

E. Gal, Sociedad en Comandita, Madrid, Spain. Toilet lotions. No. 132,076; June 15; v. 275; p. 615.

E. Gal, Sociedad en Comandita, Madrid, Spain. Toilet extracts. No. 132,077; June 15; v. 275; p. 615.

E-Jay-R-Mfg. Co., Baltimore, Md. Dressings. No. 136,406; Nov. 2; v. 280; p. 181.

Eadon, Moses, & Sons, Limited, Sheffield, England. Metal-working edge-tools, pipe-taps and dies. No. 136,406; Nov. 2; v. 280; p. 181.

E-Jay-R-Mfg. Co., Baltimore, Md. Dye preparation for coloring shoes or the like. No. 138,445; Dec. 28; v. 281; p. 782.

Eagle Cotton Mills Co., Madison, Ind. Rope yarns and cotton twines and cordage. Nos. 133,638–9; Aug. 3; v. 277; p. 171.

Eagle Pencil Company, New York, N. Y. Stationery. No. 129,958; Mar. 9; v. 272; p. 371.

Eagle Pencil Company, New York, N. Y. Pencil-sharpeners. No. 138,391; Dec. 21; v. 281; p. 570.

Eagle-Picher Lead Co., The, Cincinnati, Ohio. Storage batteries and storage-battery parts. No. 137,206; Nov. 23; v. 280; p. 792.

Eagle-Picher Lead Co., The, Cincinnati, Ohio. Pig-lead, spelter, sheet-zinc, and slab-zinc. No. 137,207; Nov. 23; v. 280; p. 792.

Eagle-Picher Lead Co., The, Cincinnati, Ohio. Plumbers' lead supplies consisting of lead pipes, bends, traps, and ferrules. No. 137,208; Nov. 23; v. 280; p. 792.

Eagle-Picher Lead Co., The, Cincinnati, Ohio. Paints and painters' materials. No. 137,209; Nov. 23; v. 280; p. 792.

Eagle Printing Ink Co., The, Jersey City, N. J., and New York, N. Y. Printing and lithographic inks. No. 129,686; Mar. 9; v. 272; p. 362.

Earl, Charles M., Detroit, Mich. Beverage-dispensing valves. No. 132,363; June 22; v. 275; p. 817.

Earley, Alice W., Los Angeles, Calif. Cream to be used on the throat, neck, and bust. No. 129,452; Feb. 24; v. 271; p. 678.

Earley, Alice W., Los Angeles, Calif. Toilet preparations. No. 129,687; Mar. 9; v. 272; p. 362.

East End Tire Company, Inc., Pittsburgh, Pa. Automobile-tire accessories. No. 137,779; Dec. 7; v. 281; p. 195.

East Iron & Machine Co., The, Lima, Ohio. Dough-mixers. No. 129,151; Jan. 27; v. 270; p. 614.

East Iron & Machine Co., The, Lima, Ohio. Mixing, kneading, and masticating machines. No. 131,450; May 18; v. 274; p. 602.

Easterday, William A., Washington, D. C. Candies. No. 134,357; Aug. 31; v. 277; p. 971.

Eastern Brass and Ingot Corporation, Chicago, Ill. Non-ferrous metal ingots. No. 133,124; July 13; v. 276; p. 401.

Eastern Felt Company, Winchester, Mass. Felt polishing-wheels. No. 128,867; Jan. 6; v. 270; p. 179.

Eastern Felt Company, Winchester, Mass. Felt polishing-wheels. No. 131,900; May 25; v. 274; p. 830.

Eastern Felt Company, Winchester, Mass. Felt polishing-wheels. No. 131,978; June 8; v. 275; p. 414.

Eastern Fountain Co., Boston, Mass. Drinking-fountains and parts thereof for human use. No. 130,708; May 4; v. 274; p. 184.

Eastern Hair Net Trading Co., New York, N. Y. Hair-nets. No. 136,407; Nov. 2; v. 280; p. 181.

Eastern Machine Screw Corporation, The. Automatic die heads, collapsible taps, threading machines, &c. No. 134,165; Aug. 17; v. 277; p. 581.

Eastern Tube & Tool Company, Inc., Brooklyn, N. Y. Drill-chucks. No. 135,658; Oct. 19; v. 279; p. 527.

Eastman Kodak Company, Rochester, N. Y. Adjustable camera-supporting clamps and tripod-adapters. No. 128,868; Jan. 6; v. 270; p. 179.

Eastman Kodak Company, Rochester, N. Y. Photographic film. No. 132,364; June 22; v. 275; p. 817.

Eastman Kodak Company, The, Rochester, N. Y. Photographic film. No. 133,125; July 13; v. 276; p. 401.

Eastwood Wire Manufacturing Company, Belleville, N. J. Ingots of bronze, Babbitt metal, &c. No. 129,152; Jan. 27; v. 270; p. 614.

Eaton, Alice, Atlantic City, N. J. Fudge and penochi, home-made. No. 131,901; May 25; v. 274; p. 836.

Eaton, Crane & Pike Company, Pittsfield, Mass. Writing-paper and mailing-envelops. No. 135,659; Oct. 19; v. 279; p. 527.

Eaton Rapids Woolen Mills, Eaton Rapids, Mich. Automobile-robes, blankets, and knitted fabric. No. 129,688; Mar. 9; v. 272; p. 362.

Eaton Rapids Woolen Mills, Eaton Rapids, Mich. Fabric puttees. No. 131,740; May 25; v. 274; p. 830.

Eatsum Products Corporation, Orlando, Fla. Fruit preserves, table-syrup, orange peel. No. 132,133; June 15; v. 275; p. 616.

Eckerson Company, Jersey City, N. J. Oleomargarin. No. 128,869; Jan. 6; v. 270; p. 179.

Eckstein, Joseph, New York, N. Y. Ladies', misses', and children's suits, coats, waists, dresses, and skirts. No. 133,640; Aug. 8; v. 277; p. 171.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Economical Materials Co., Chicago, Ill. Chemical compound for use in the manufacture of beverages. No. 132,365; June 22; v. 275; p. 817.
Economou, Nickitas P., New York, N. Y. Olive-oil. No. 131,096; May 4; v. 274; p. 196.
Economy Ink Company, The, Cincinnati, Ohio. Fluid writing-ink. No. 132,668; June 29; v. 275; p. 1015.
Economy Manufacturing Company, New York, N. Y. Ladies' dresses, skirts, coats, and suits. No. 135,178; Sept. 21; v. 278; p. 539.
Eddy, W., Plow Co., Greenwich, N. Y. Certain machinery. No. 135,978; Oct. 26; v. 279; p. 718.
Edelmann, E., & Company, Chicago, Ill. Tools comprising wrenches, hammers, and screwdrivers. No. 135,979; v. 279; p. 718.
Edgerton Salt Brick Company, Goldsboro, N. C., and Atlanta, Ga. Salt brick. No. 128,679; Jan. 13; v. 270; p. 338.
Edgewater Steel Company, Pittsburgh, Pa. Steel castings and forgings. No. 131,741; May 25; v. 274; p. 830.
Edgren, Nils, New Effington, S. D. Medicinal preparation for colds, sore throat, dry cough, &c. No. 129,959; Mar. 9; v. 272; p. 371.
Edison Laboratories, The, Chicago, Ill. Hair-shampoo. No. 132,366; June 22; v. 275; p. 817.
Edison Orange Growers Association, Bakersfield and Edison, Calif. Oranges, lemons, grapefruit. No. 136,719; Nov. 2; v. 280; p. 191.
Edison Pen Company, Inc., Petersburg, Va. Fountain-pens and pen-points. No. 137,993; Dec. 14; v. 281; p. 397.
Edison Portland Cement Company, The, West Orange and New Village, N. J., and New York N. Y. Portland cement. No. 136,793; Nov. 9; v. 280; p. 379.
Edison Storage Battery Company, West Orange, N. J. Pamphlets and booklets issued quarterly. No. 133,403; July 27; v. 276; p. 768.
Edison, Thomas A., Incorporated, West Orange, N. J. Phonographs. No. 138,392; Dec. 21; v. 281; p. 570.
Edson Brothers, Philadelphia, Pa. Oleomargarin. No. 129,353; Feb. 17; v. 271; p. 508.
Edwards, Webster K., Cumberland, Md. Treatment of neuralgia, rheumatism, colds, &c. No. 129,453; Feb. 24; v. 271; p. 678.
Edwards, Webster K., Cumberland, Md. External application for relief of congestion, inflammation, croup, &c. No. 129,454; Feb. 24; v. 271; p. 678.
Educational Supply Company, The. Painesville, Ohio. School-report cards, class-record books, excuse-blanks, and school-registers. No. 133,958; Aug. 10; v. 277; p. 387.
Educator Co., The, Philadelphia, Pa. Medicinal treatment for pyorrhea. No. 134,430; Aug. 31; v. 277; p. 974.
Efanbee Company, The, Methuen, Mass. Non-alcoholic, non-cereal, maltless beverages. No. 135,433; Oct. 12; v. 279; p. 396.
Eforose Sugar Co., The, Cincinnati, Ohio. Malt syrup for food purposes. No. 133,959; Aug. 10; v. 277; p. 387.
Egan, Ronan, Housman Company, Brooklyn, N. Y. Paints and painters' materials. No. 131,742; May 25; v. 274; p. 830.
Egg-O Co., The, Baltimore, Md. Flavored pudding-dessert mixture. No. 135,434; Oct. 12; v. 279; p. 342.
Eg-Ste-Tut Mfg. Co., Logansport, Ind. Egg-powder and egg-substitute powder. No. 131,979; June 8; v. 275; p. 414.
Ehart, Mathew B., Philadelphia, Pa. Preparation for cleaning painted or varnished surfaces. No. 129,689; Mar. 9; v. 272; p. 362.
Ehrlick, H., & Sons Mfg. Co., St. Joseph, Mo. Pickling compound for meats. No. 128,680; Jan. 13; v. 270; p. 338.
Eichenfeld, Daniel, Tulsa, Okla. Wooden pipes and splicings. No. 133,239; July 20; v. 276; p. 590.
Eile, Philip, New York, N. Y. Tobacco, cigars, and cigarettes. No. 130,709; May 4; v. 274; p. 184.
Eilert Products Co., Fresno, Calif. Non-intoxicating cereal beverage. No. 137,994; Dec. 14; v. 281; p. 397.
Eingold, Harold B., Worcester, Mass. Products—namely, butter. No. 135,233; Sept. 28; v. 278; p. 702.
Einhorn Bros., Philadelphia, Pa. Ladies' waists and blouses. No. 137,210; Nov. 23; v. 280; p. 792.
Eiseman Bros. Mfg. Co., St. Louis, Mo. Women's and children's dresses. No. 137,211; Nov. 23; v. 280; p. 792.
Eiseman, Samuel, & Co., New York, N. Y. Silk piece goods. No. 133,240; July 20; v. 276; p. 590.
Eisemann Magneto Corporation, Brooklyn, N. Y. Manually and mechanically operated impulse-starters. No. 132,134; June 15; v. 275; p. 616.
Eisenstadt Manufacturing Company, St. Louis, Mo. Soft-collar holders. No. 129,690; Mar. 9; v. 272; p. 362.
Elastic Paint Company, Chicago, Ill. Oil-paint. No. 137,780; Dec. 7; v. 281; p. 195.
Elasticap Company, The, Hoboken, N. J. Splice-insulators for electric conductors. No. 135,660; Oct. 19; v. 279; p. 527.
Elastowear Manufacturing Company, The, Cincinnati, Ohio. Girdles, brassières, hip-reducing corsets, &c. No. 130,710; May 4; v. 274; p. 184.
Elbe Motor Co., Los Angeles, Calif. Rear-sight mirror for vehicles. No. 131,097; May 4; v. 274; p. 196.
Elberfeld Chemical & Mfg. Co., Sandwich, Mass. Ammonia, bluing, bleaching preparation, and disinfectant. No. 134,936; Sept. 21; v. 278; p. 531.
Elbury, Edward J., San Francisco, Calif. Printed booklet. No. 136,794; Nov. 9; v. 289; p. 379.
Elder Manufacturing Co., St. Louis, Mo. Boys' and children's clothing. No. 131,098; May 4; v. 274; p. 196.
Eldridge, Geo. R., Co., Detroit, Mich. Butter. No. 130,292; Apr. 20; v. 273; p. 620.
Eldridge & Hancock, Abbeville, Ga. Medicinal preparations for pulmonary affections. No. 129,691; Mar. 9; v. 272; p. 362.
Electric Auto-Lite Corporation, Toledo, Ohio. Electric light and power plants, equipment, and parts thereof. No. 133,404; July 27; v. 276; p. 768.
Electric brazing and Welding Machine Co., Inc., New York, N. Y. Demagnetizing apparatus or devices. No. 130,491; Apr. 27; v. 273; p. 802.
Electric Controller & Manufacturing Company, The, Cleveland, Ohio. Electric apparatus and supplies. No. 131,099; May 4; v. 274; p. 196.
Electric Controller Co., Indianapolis, Ind. Electric heat-regulating devices. No. 137,781; Dec. 7; v. 281; p. 195.
Electric Lamp & Products Co., Jersey City, N. J. Electric-lamp products. No. 131,451; May 18; v. 274; p. 603.
Electric & Ordnance Accessories Company Limited, Birmingham, England. Electric heaters, cookers, &c. No. 128,681; Jan. 13; v. 270; p. 338.
Electric Phonograph Corporation, New York, N. Y. Combination phonograph and lamp-stand. No. 128,971; Jan. 20; v. 270; p. 472.
Electric Welding Machine Co., Detroit, Mich. Electric welding-machines. No. 131,743; May 25; v. 274; p. 831.
Electrified Water and Machine Company, Dallas, Tex. Water. No. 131,744; May 25; v. 274; p. 831.
Electrik Maid Bake Shops, St. Paul, Minn. Baker's electric-oven. No. 136,409; Nov. 2; v. 280; p. 181.
Electro Silicon Co., New York, N. Y. Preparation for cleaning and polishing metals and glass. Nos. 131,100–101; May 4; v. 274; p. 196.
Electropure Dairy Company, Wilmington, Del., and Chicago, Ill. Milk. No. 128,972; Jan. 20; v. 270; p. 472.
Elgart Specialty Clothes Co., New York, N. Y. Boys' corduroy, wash, linen, woolen, and worsted suits and boys' knickerbockers. No. 135,234; Sept. 28; v. 278; p. 702.
Elgin Gas Motor Company, Elgin, Ill. Internal-combustion engines. No. 130,293; Apr. 20; v. 273; p. 620.
Elgin Motor Car Corporation, Argo, Ill. Motor-vehicles. No. 130,294; Apr. 20; v. 273; p. 620.
Elgin National Soap Company, Elgin, Ill. Powdered soap. No. 132,135; June 15; v. 275; p. 617.
Elgin Stove & Oven Co., Elgin, Ill. Gas, coal, and oil stoves or ovens. No. 128,870; Jan. 6; v. 270; p. 180.
Eli Lilly and Company, The, Indianapolis, Ind. Soluble tablets for extemporaneous preparations of solutions for antiseptic uses. No. 134,495; Sept. 7; v. 278; p. 159.
Eli Lilly & Company, The, Indianapolis, Ind. Elixirs. No. 138,237; Dec. 21; v. 281; p. 568.
Eliasoff & Birnbaum, New York, N. Y. Finger-rings and cluster-mounts for finger-rings. No. 129,692; Mar. 9; v. 272; p. 362.
Elinor's. (See The C. S. Ball Candy Company, assignor.)
Elite Hosiery Company Inc., Philadelphia, Pa. Hosiery. No. 137,212; Nov. 23; v. 280; p. 792.
Elkish & Brother, Philadelphia, Pa. Women's, girls', and children's coats. No. 138,238; Dec. 21; v. 281; p. 563.
Ellingwood Turning Co., West Paris, Me. Skees. No. 130,492; Apr. 27; v. 273; p. 802.
Elliot Petticoat Co., Boston, Mass. Women's petticoats. No. 132,669; June 29; v. 275; p. 1015.
Elliott, Clinton, New York, N. Y. Candles. No. 136,795; Nov. 9; v. 280; p. 379.
Elliott, Clinton, New York, N. Y. Candles and molasses kisses. Nos. 137,995–6; Dec. 14; v. 281; p. 397.
Elliot, John, Keene, N. H. Washing compounds. No. 135,980; Oct. 26; v. 279; p. 718.
Ellis Coffee Importing Company, Philadelphia, Pa. Tea, coffee, rice, &c. No. 135,981; Oct. 26; v. 279; p. 718.
Ellis-Jones Drug Co., Memphis, Tenn. Medicinal preparation for the gums of teething infants. No. 129,281; Feb. 10; v. 271; p. 355.
Elm Undergarment Co., New York, N. Y. Corset-covers, envelop-chemises, nightgowns, petticoats, and bloomers. No. 132,266; June 15; v. 275; p. 621.
Elmer Candy Co., Inc., New Orleans, La. Candy. No. 136,410; Nov. 2; v. 280; p. 181.
Eloesser-Heynemann Co., San Francisco, Calif. Wearing-apparel—namely, children's play-suits. No. 134,937; Sept. 21; v. 278; p. 531.
El Reno Mill & Elevator Co., El Reno, Okla. Wheat-flour. No. 137,213; Nov. 23; v. 280; p. 793.
Elting, Charles H., & Company, Chicago, Ill. Phonographs. No. 135,661; Oct. 19; v. 279; p. 527.
Ely & Walker D. G. Co., St. Louis, Mo. Hosiery, underwear, &c. No. 128,973; Jan. 20; v. 270; p. 473.
Ely & Walker Goods Co., St. Louis, Mo., and New York, N. Y. Hose-supporter. No. 130,295; Apr. 20; v. 273; p. 620.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Ely & Walker Dry Goods Company, St. Louis, Mo. Pajamas and nightgowns. No. 133,241; July 20; v. 276; p. 500.
Ely & Walker, D. G. Co., St. Louis, Mo. Laces and embroideries in the piece. No. 133,405; July 27; v. 276; p. 768.
Ely & Walker Dry Goods Company, St. Louis, Mo. Jumpers and overalls. No. 133,641; Aug. 3; v. 277; p. 172.
Ely & Walker Dry Goods Company, St. Louis, Mo. Oilcloth. No. 133,642; Aug. 3; v. 277; p. 172.
Ely & Walker Dry Goods Company, St. Louis, Mo. Trunks, suitcases, and traveling-bags. No. 136,796; Nov. 9; v. 280; p. 379.
Emanuel & Woodward, New York, N. Y. Cigarettes. No. 133,544; July 27; v. 276; p. 772.
Embalmers' Supply Co., Westport, Conn. Embalming fluid. No. 128,871; Jan. 6; v. 270; p. 180.
Embalmers' Supply Company, Westport, Conn. Embalming fluid. No. 131,453; May 18; v. 274; p. 603.
Embee Distributing Company, New York, N. Y. Games. No. 135,662; Oct. 19; v. 279; p. 527.
Embee Distributing Company, New York, N. Y. Candy. No. 135,663; Oct. 19; v. 279; p. 527.
Embroiderers' Publishing Corporation, New York, N. Y. Weekly publication. No. 133,406; July 27; v. 276; p. 768.
Emco Manufacturing Company, Inc., Binghamton, N. Y. Patches for tires. No. 129,693; Mar. 9; v. 272; p. 362.
Emerson Manufacturing Company, San Francisco, Calif. Flags. Nos. 132,670–1; June 29; v. 275; p. 1015.
Emerson Phonograph Company, Inc., New York, N. Y. Phonograph-records. No. 130,063; Apr. 6; v. 273; p. 180.
Emerson Phonograph Company, Inc., New York, N. Y. Phonograph-records. No. 131,902; May 25; v. 274; p. 836.
Emerson Piano Company, Boston, Mass. Pianos. No. 137,214; Nov. 23; v. 280; p. 793.
Emerson Shirt Co., Inc., New York, N. Y. Men's dress and negligée shirts. No. 132,136; June 15; v. 275; p. 617.
Emerson Shoe Company, The, Rockland, Mass. Leather boots and shoes. Nos. 130,711–13; May 4; v. 274; p. 184.
Emery Food Co., Chicago, Ill. Canned fruits and vegetables. No. 131,103; May 4; v. 274; p. 196.
Emmerling Products Company, Johnstown, Pa. Ginger-ale. No. 128,974; Jan. 20; v. 270; p. 473.
Empire Bakers Specialty Co., New York, N. Y. Eggs in powdered form. No. 132,672; June 29; v. 275; p. 1015.
Empire Carpet Co., New York, N. Y. Rugs made of wool and cotton. No. 135,664; Oct. 19; v. 279; p. 527.
Empire Carpet Co., New York, N. Y. Rugs made of wool and cotton. No. 135,982; Oct. 26; v. 279; p. 718.
Empire Manufacturing Co., Providence, R. I. Jewelry No. 129,694; Mar. 9; v. 272; p. 362.
Empire Paper Co., Chicago, Ill. Ledger-paper. No. 132,137; June 15; v. 275; p. 617.
Empire Rolling Screen Co., Inc., Rochester, N. Y. Window-screens. No. 128,682; Jan. 13; v. 270; p. 338.
Empire Seating Co., Inc., Rochester, N. Y. Chair-desks. No. 129,981; Mar. 16; v. 272; p. 539.
Empire Silk Company, Wilmington, Del., and New York, N. Y. Silk piece goods. No. 129,960; Mar. 9; v. 272; p. 371.
Empire Silk Company, Wilmington, Del., and New York, N. Y. Silk piece goods. No. 131,104; May 4; v. 274; p. 196.
Empire Silk Company, Wilmington, Del., and New York, N. Y. Silk piece goods. No. 133,407; July 27; v. 276; p. 768.
Empire Silk Company, Wilmington, Del., and New York, N. Y. Silk piece goods. No. 133,643; Aug. 3; v. 277; p. 172.
Empire Soap Co., New York, N. Y. Soap. No. 136,797; Nov. 9; v. 280; p. 379.
Empire Transformer Company Chicago, Ill. Electric heaters, transformers, bell-ringers, &c. No. 137,591; Nov. 30; v. 280; p. 997.
Encore Hosiery Co., New York, N. Y. Hosiery. No. 131,748; May 25; v. 274; p. 831.
Enders, Wm., Manufacturing Company, Walden, N. J. Sadirons, laundry-washing machines, and clothes-wringers. No. 128,372; Jan. 6; v. 270; p. 180.
Enders, Wm., Manufacturing Company, Walden, N. Y. Stovepipe, gas, coal, and wood stoves, portable ovens. No. 130,177; Apr. 13; v. 273; p. 402.
Energy Electric Company, Haverhill, Mass. Arc and incandescent electric lamps. No. 132,934; July 6; v. 276; p. 201.
Engel, Albert W., Chicago, Ill. Picture or sheet mounting devices. No. 132,673; June 29; v. 275; p. 1015.
Engelhard, A., & Sons Company, Louisville, Ky. Foods and food ingredients. Nos. 136,411–12; Nov. 2; v. 280; p. 181.
Engelhard, A., & Sons Company, Louisville, Ky. Foods and food ingredients. No. 137,997; Dec. 14; v. 281; p. 397.
Engle and Zeimer, New York, N. Y. Ladies' hats. No. 133,614; Aug. 3; v. 277; p. 172.
Engle & Zeimer, New York, N. Y. Ladies' hats. No. 138,376; Dec. 21; v. 281; p. 568.
Enlow Co., Inc., New York, N. Y. Stationery. No. 128,683; Jan. 13; v. 270; p. 338.
Enterprise Manufacturing Company, Atlanta, Ga. Middy-blouses and dresses for children, misses, and ladies. No. 131,102; May 4; v. 274; p. 196.
Entire Wheat Bread Company, St. Louis, Mo. Bread. No. 128,684; Jan. 13; v. 270; p. 338.
Eppolito, Frank, Chicago, Ill. Hair-tonic. No. 128,685; Jan. 13; v. 270; p. 338.
Equinox Mountain Spring, Inc., New York, N. Y. Ginger-ale. No. 131,454; May 18; v. 274; p. 603.
Equitable Cream Separator Company, New York, N. Y. Cream-separator. No. 133,645; Aug. 3; v. 277; p. 172.
Erber, Nathan, Fort Wayne, Ind. Skin-lotion. No. 132,368; June 22; v. 275; p. 818.
Ernst, Milton L., New York, N. Y. Imitation-pearl strings. No. 136,413; Nov. 2; v. 280; p. 181.
Error-No Incorporated, Rochester, N. Y. Copy-holders. No. 135,665; Oct. 19; v. 279; p. 527.
Escanaba Manufacturing Company, Escanaba, Mich. Wood and paper dishes. No. 137,008; Dec. 14; v. 281; p. 397.
Esleeck Manufacturing Co., Turners Falls, Mass. Bond-paper, non-carbonized type-writer and manifold papers, &c. No. 128,686; Jan. 13; v. 270; p. 338.
Esleeck Manufacturing Co., Turners Falls, Mass. Bond, &c., paper. No. 128,687; Jan. 13; v. 270; p. 338.
Esleeck Manufacturing Company, Turners Falls, Mass. Bond, typewriter, &c., paper. No. 128,873; Jan. 6; v. 270; p. 180.
Esmond Mills, The, Jersey City, N. J. Cotton bed-blankets. No. 133,646; Aug. 3; v. 277; p. 172.
Essex Aniline Works, Inc., Boston, Mass. Dyestuffs. No. 131,455; May 18; v. 274; p. 603.
Essex Chemical Works, Inc., Belleville, N. J. Fur black, &c., dyes. No. 128,688; Jan. 13; v. 270; p. 338.
Essex Laboratories Inc., Newark, N. J. Cleaning compound. No. 128,689; Jan. 13; v. 270; p. 338.
Essex Rubber Company, Trenton, N. J. Tank-balls. No. 134,166; Aug. 17; v. 277; p. 581.
Essex Rubber Company, Trenton, N. J. Cycle-handle-bar grips. No. 135,235; Sept. 28; v. 278; p. 702.
Estate Stove Company, The, Hamilton, Ohio. Electric air-heating stoves, cooking-stoves, &c. No. 137,999; Dec. 14; v. 281; p. 397.
Estate Stove Company, The, Hamilton, Ohio. Stoves. No. 138,000; Dec. 14; v. 281; p. 397.
Estelle Company, The, Chicago, Ill. Dresses. No. 130,715;; May 4; v. 274; p. 184.
Estes, E. B., & Sons, New York, N. Y. Worsted-winders. No. 131,105; May 4; v. 274; p. 196.
Eterna Watch Works Grenchen, Switzerland. Horological instruments and parts. No. 136,798; Nov. 9; v. 280; p. 379.
Euclid Candy Company, The, Cleveland, Ohio. Candy. Nos. 135,983–5; Oct. 26; v. 279; p. 718.
Euclid Film Company, The, Cleveland, Ohio. Motion-picture films and still pictures. No. 135,435; Oct. 12; v. 279; p. 343.
Eureka Packing Co., Sales Dep't, New York, N. Y. Machinery packing. No. 133,647; Aug. 3; v. 277; p. 172.
Eureka Products Co., St. Louis, Mo. Non-alcoholic, non-cereal, maltless beverage and syrup for making the same. No. 135,236; Sept. 28; v. 278; p. 702.
Eureka Vacuum Cleaner Company, Detroit, Mich. Electric vacuum-cleaners. No. 135,986; Oct. 26; v. 279; p. 718.
Evans, Charles E., Manchester, Ga. Medicinal compound for the liver. No. 134,636; Sept. 14; v. 278; p. 355.
Evans Coal Company, The, Fort Wayne, Ind. Bituminous coal. No. 130,716; May 4; v. 274; p. 184.
Evans, David G., Coffee Co., St. Louis, Mo. Coffee, tea, spices, salad oil and dressing, and flavoring extracts. No. 132,935; July 6; v. 276; p. 201.
Evans Dollar Pen Company, The, Waterloo, Iowa. Fountain-pens. Nos. 129,695–6; Mar. 9; v. 272; p. 362.
Evans Dollar Pen Co., Waterloo, Iowa. Fountain-pens. No. 129,961; Mar. 9; v. 272; p. 371.
Evans Dollar Pen Company, The, Waterloo, Iowa. Fountain-pens. No. 138,001; Dec. 14; v. 281; p. 397.
Evans, George B., Philadelphia, Pa. Toilet powder. Nos. 134,938–9; Sept. 21; v. 278; p. 531.
Evans, Henry, Waco, Tex. Preparation used in the treatment of the skin and hair. No. 135,987; Oct. 26; v. 279; p. 718.
Evans, John R., & Company, Philadelphia, Pa. Leather. No. 131,107; May 4; v. 274; p. 196.
Evans, John R., & Company, Philadelphia, Pa. Leather. No. 132,674; June 29; v. 275; p. 1015.
Evans, Madge, Hat Co., New York, N. Y. Straw and cloth hats for children, girls, and misses. No. 134,637; Sept. 14; v. 278; p. 355.
Evans Mfg. Co., Cedar Rapids, Iowa. Work-clothing. No. 138,446; Dec. 28; v. 281; p. 782.
Evans, Thomas M., East Providence, R. I. Rubber heels No. 132,138; June 15; v. 275; p. 617.
Evening News Publishing Company, Newark, N. J. Newspaper-section. No. 134,638; Sept. 14; v. 278; p. 355.
Everbest Milling Corporation, Erie, Pa. Cornmeal, bolted meal, buckwheat-flour, wheat, pastry, and Graham flours. No. 134,941; Sept. 21; v. 278; p. 531.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Everbright Manufacturing Company, San Francisco, Calif. Polish for cleaning, polishing, preserving, and finishing certain-named surfaces and articles. No. 131,980; June 8; v. 275; p. 414.

Eveready Mfg. Company of Boston, Boston, Mass. Staple making and driving machines. No. 135,988; Oct. 26; v. 279; p. 718.

Everett, Aughenbaugh & Co., Waseca, Minn. Bread. No. 131,108. May 4; v. 274; p. 196.

Everett Knitting Works, Lebanon, N. H. Men's, women's, and children's knitted underwear. No. 133,126; July 13; v. 276; p. 401.

Everett Knitting Works, Lebanon, N. H. Knitted underwear, both one and two piece. No. 134,940; Sept. 21; v. 278; p. 531.

Everit Chemical Co., New Haven, Conn. Fire-extinguishing fluid. No. 134,639; Sept. 14; v. 278; p. 355.

Everlasbestos Flooring Company, Rochester, N. Y. Composition flooring composed mainly of oxychlorid cement, &c. No. 129,982; Mar. 16; v. 272; p. 539.

Everlast Ring Cast Company, Boston, Mass. Molds and parts in connection with molds used in casting jewelry. No. 137,782; Dec. 7; v. 281; p. 195.

Everlastik, Incorporated, Boston, Mass. Elastic bandages. No. 128,374; Jan. 6; v. 270; p. 180.

Everts, Olney W., Elmira, N. Y. Wheat and pancake flour. No. 132,675; June 29; v. 275; p. 1015.

Everwear Hosiery Company, Milwaukee, Wis. Hosiery. No. 135,369; Sept. 28; v. 278; p. 707.

Everwear Mfg. Co., San Francisco, Calif. Children's play-suits, men's overalls and overshirts. No. 128,690; Jan. 13; v. 270; p. 338.

Excello Mat Company, Inc., New York, N. Y. Leather table mats and runners. No. 134,640; Sept. 14; v. 278; p. 355.

Excello Merchandise Co., Inc., New York, N. Y. Sweaters, women's one-piece muslin underwear, blouses, and workshirts. No. 135,237; Sept. 28; v. 278; p. 702.

Excelsior Cycle Company, Michigan, Ind. Bicycles. No. 138,182; Dec. 14; v. 281; p. 404.

Excelsior Motor Mfg. & Supply Co., Chicago, Ill. Motorcycles and bicycles. No. 138,239; Dec. 21; v. 281; p. 563.

Excelsior Underwear Co., Inc., New York, N. Y. Athletic underwear. No. 137,588; Nov. 30; v. 280; p. 997.

Exline and Exline Co., The, Dallas, Tex. Check-book covers and blank pass-books. No. 129,697; Mar. 9; v. 272; p. 362.

Exolon Company, The, Boston, Mass. Abrasives in comminuted form. Nos. 135,666–7; Oct. 19; v. 279; p. 527.

Expedite Organization, The, Chicago, Ill. Filing and indexing devices. No. 135,989; Oct. 26; v. 279; p. 718.

Experimenter Publishing Co., New York, N. Y. Magazine published monthly. No. 129,698; Mar. 9; v. 272; p. 363.

Express Spark Plug Corporation, Washington, D. C. Spark-plugs. No. 128,691; Jan. 13; v. 270; p. 338.

Eye Brand Confectionery, Inc., Brooklyn, N. Y. Candies. No. 130,064; Apr. 6; v. 273; p. 180.

Eye Brand Confectionery, Inc., Brooklyn, N. Y. Candies. No. 136,414; Nov. 2; v. 280; p. 181.

Eye Brand Confectionery, Inc., Brooklyn, N. Y. Candies. No. 137,589; Nov. 30; v. 280; p. 997.

Ezekiel Brothers, New York, N. Y. Condensed milk. No. 135,436; Oct. 12; v. 279; p. 343.

Ezonail Products Company, Seattle, Wash. Shaving-cream. No. 120,699; Mar. 9; v. 272; p. 363.

F. A. B. Manufacturing Co., Oakland and San Francisco, Calif. Pumps used in dispensing liquid from containers. No. 130,493; Apr. 27; v. 273; p. 302.

F. I. A. T. Fabbrica Italiana Automobili Torino, Turin, Italy. Explosives, firearms, equipment, and projectiles. No. 137,215; Nov. 23; v. 280; p. 793.

Fabart Instrument Co., Chicago, Ill. Mechanical fire-alarms. No. 133,648; Aug. 3; v. 277; p. 172.

Faber & Company, Peoria, Ill. Stock food. No. 135,238; Sept. 28; v. 278; p. 702.

Faber, Eberhard, New York and Brooklyn, N. Y. Pencils, penholders, erasers, and bands. No. 129,700; Mar. 9; v. 272; p. 363.

Faber, Eberhard, Brooklyn, N. Y. Lead-pencils, pencil-lengtheners, erasers, and penholders. No. 137,216; Nov. 23; v. 280; p. 793.

Faber, Eberhard, Brooklyn, N. Y. Erasers of rubber or rubber composition. No. 137,217; Nov. 23; v. 280; p. 793.

Faber, Edmund J., St. Louis, Mo. Ventilating seat-pads. No. 133,242; July 20; v. 276; p. 590.

Fabian Hedges, Inc., New York, N. Y. Mallow topping for ice-cream, desserts, &c. No. 131,135; May 4; v. 274; p. 197.

Fabreeka Belting Company, Boston, Mass. Belting. No. 138,447; Dec. 28; v. 281; p. 782.

Fabrique de Produits Chimiques Flora, Zurich, Switzerland. Rennet powder and photographic developers. No. 134,496; Sept. 7; v. 278; p. 159.

Faehndrich, William, New York, N. Y. Cheese. No. 130,494; Apr. 27; v. 273; p. 302.

Faehner, Madeleine, New York, N. Y. Hair-tonic. No. 134,497; Sept. 7; v. 278; p. 159.

Fafnir Bearing Co., New Britain, Conn. Antifriction-bearings, antifriction-bearing hanger-boxes, balls, and rollers, cages, &c. No. 131,109; May 4; v. 274; p. 196.

Fageol Motors Company, Oakland, Calif. Motor-trucks and automobiles. No. 135,668; Oct. 19; v. 279; p. 527.

Fageol Motors Company, Oakland, Calif. Tractors. No. 135,669; Oct. 19; v. 279; p. 527.

Fair Maid Undergarment Co., The, New York, N. Y. Children's and misses' undergarments. No. 134,641; Sept. 14; v. 278; p. 355.

Fair, The, Chicago, Ill. Hosiery. No. 133,127; July 13; v. 276; p. 402.

Fair, The, Chicago, Ill. Sheets and pillow-cases. No. 133,650; Aug. 3; v. 277; p. 172.

Fair, The, Chicago, Ill. Textile blankets. No. 135,239; Sept. 28; v. 278; p. 702.

Fairbanks, Morse & Co., Chicago, Ill. Internal-combustion engines. No. 131,456; May 18; v. 274; p. 603.

Fairbanks, Morse & Co., Chicago, Ill. Dynamos and motors. No. 138,002; Dec. 14; v. 281; p. 397.

Fairchild Bros. & Foster, New York, N. Y. Food product to be used as a food for infants, &c. No. 133,960; Aug. 10; v. 277; p. 387.

Fairchild Company, Chicago, Ill. Semimonthly publication. No. 133,410; July 27; v. 276; p. 768.

Faire Bros. & Co., Limited, Leicester, England. Elastic webs. Nos. 132,936–7; July 6; v. 276; p. 201.

Faire Bros. & Co., Limited, Leicester, England. Elastic webs. No. 133,408; July 27; v. 276; p. 768.

Faire Bros. & Co. Limited, Leicester, England. Elastic webs. No. 133,411; July 27; v. 276; p. 768.

Faire Bros. & Co., Leicester, England. Elastic webs. No. 133,961; Aug. 10; v. 277; p. 387.

Faire Bros. & Co., Limited, Leicester, England. Elastic webs. No. 134,942; Sept. 21; v. 278; p. 531.

Fairfield Canning Company, The, Chillicothe, Ohio. Canned fruits and vegetables. No. 131,981; June 8; v. 275; p. 414.

Fairmont Beverage Co, Cincinnati, Ohio. Non-intoxicating cereal beverage. No. 133,409; July 27; v. 276; p. 768.

Fairmont Creamery Company, The, Omaha, Nebr. Eggs. No. 131,305; May 11; v. 274; p. 400.

Fall, Charles, Hoboken, N. J. Ladies' and infants' hosiery. No. 135,437; Oct. 12; v. 279; p. 343.

Falls Machine Company, Sheboygan Falls, Wis. Engine stop mechanism. No. 130,495; Apr. 27; v. 273; p. 302.

Famous Sales Company. (See Area Manufacturing Co., assignor.)

Fansteel Products Company, Inc., North Chicago, Ill. Metallic deoxidizers and scavengers for use in casting metals. No. 132,139; June 15; v. 275; p. 617.

Farese, Raffaele A., Newark, N. J. Hair-invigorator. No. 134,943; Sept. 21; v. 278; p. 531.

Fargo Mercantile Co., Fargo, N. D. Coffee. No. 135,670; Oct. 19; v. 279; p. 527.

Farkas, Joseph D., New York, N. Y. Bathing-suit bags of waterproof material. No. 136,799; Nov. 9; v. 280, p. 379.

Farm Equipment Co., The, Baltimore, Md. Hardware and plumbing and steam fitting supplies. No. 133,243; July 20; v. 276; p. 590.

Farm Equipment Co., The, Baltimore, Md. Corn, feed, and grain bins, hog-feeders, troughs, and silo-chutes. No. 133,649; Aug. 3; v. 277; p. 172.

Farm Equipment Co., The, Baltimore, Md. Machinery, tools, and parts thereof. No. 134,156; Aug. 17; v. 277; p. 581.

Farm Equipment Co., The, Baltimore, Md. Swingletrees, &c., for vehicles and swingletrees for farm implements. No. 134,358; Aug. 31; v. 277; p. 971.

Farm Equipment Co., The, Baltimore, Md. Knockdown garages, animal and poultry houses, &c. No. 134,359; Aug. 31; v. 277; p. 971.

Farm Equipment Co., The, Baltimore, Md. Steel fire-resisting and surface roofing. No. 134,642; Sept. 14; v. 278; p. 355.

Farmakis, Nicholas, Orange, N. J. Remedy for pyorrhea. No. 132,369; June 22; v. 275; p. 818.

Farmer & Breeder, Sioux City, Iowa. Periodical magazine. No. 136,415; Nov. 2; v. 280; p. 181.

Farmer Bros., Los Angeles, Calif. Coffee, tea, spices, and flavoring extracts of pure vanilla, &c. No. 131,457; May 18; v. 274; p. 603.

Farmer, Thomas, Jr., New York, N. Y. Speedometers. No. 131,458; May 18; v. 274; p. 603.

Farmers Cotton Oil Co., Wilson, N. C. Prepared feed for stock. No. 128,375; Jan. 6; v. 270; p. 180.

Farmers Union State Exchange, Omaha, Nebr. Workshirts. No. 137,593; Nov. 30; v. 280; p. 997.

Farnsworth, Hoyt Co., Boston, Mass. Cotton twill shoe-linings in the piece. No. 135,438; Oct. 12; v. 279; p. 343.

Farquhar, Geo., London, England. Sauce. No. 129,354; Feb. 17; v. 271; p. 508.

Farrel Foundry & Machine Company, Ansonia, Conn. Machinery for sugar and other mills and parts thereof. No. 131,749; May 25; v. 274; p. 831.

Farrell, Thomas A., Boston, Mass. Rubber heels and rubber footwear. No. 137,218; Nov. 23; v. 280; p. 793.

Farrer, Charles M., Seattle, Wash. Doll-buggies. No. 132,938; July 6; v. 276; p. 201.

Digitized by Google

Farrow, J. W., Moline, Kans. Liquid preparation to be used internally for boils and carbuncles. No. 136,800; Nov. 9; v. 280; p. 379.
Fats and Oils Service Company, Philadelphia, Pa. Vegetable and animal oils and fats. No. 131,459; May 18; v. 274; p. 603.
Fats and Oils Service Company, New York, N. Y. Bulletin relating to fats, oils, &c. No. 134,498; Sept. 7; v. 278; p. 160.
Faultless Rubber Company, The, Ashland, Ohio. Dolls. No. 135,439; Oct. 12; v. 279; p. 343.
Fave, Emilio D., Syracuse, N. Y. Non-alcoholic maltless beverages sold as soft drinks. No. 132,140; June 15; v. 275; p. 617.
Faw, J. H., Inc., New York, N. Y. Electrical wire and fuses. No. 130,496; Apr. 27; v. 273; p. 802.
Faw, J. H., Inc., New York, N. Y. Wrenches. No. 130,717; May 4; v. 274; p. 184.
Fearing, Whiton & Co., Inc., Boston, Mass. Cotton sheeting. No. 130,497; Apr. 27; v. 273; p. 802.
Fearing, Whiton & Co., Boston, Mass. Cotton piece goods. No. 133,128; July 13; v. 276; p. 402.
Fearless Products Manufacturing Corporation, The, Manhattan, Kans. Liquid carbon-remover. No. 131,306; May 11; v. 274; p. 400.
Febeco Leather Corporation, Wilmington, Del., and New York, N. Y. Leather. No. 128,692; Jan. 13; v. 270; p. 338.
Federal Condensed Milk Company, Seattle, Wash. Evaporated milk. No. 136,801; Nov. 9; v. 280; p. 379.
Federal Doll Manufacturing Co., Inc., New York, N. Y. Dolls. No. 137,594; Nov. 30; v. 280; p. 997.
Federal Electric Company, Chicago, Ill. Phonographs. No. 137,219; Nov. 23; v. 280; p. 793.
Federal Fur & Wool Company, St. Louis, Mo. Chemically-compounded fluid which attracts animals as bait. No. 132,676; June 29; v. 275; p. 1015.
Federal Mfg. Co., Lynn, Mass. Solder. No. 130,718; May 4; v. 274; p. 184.
Federal Milling Company, Lockport, N. Y. Wheat-flour. No. 128,376; Jan. 6; v. 270; p.180.
Federal Motor Truck Company, Detroit, Mich. Monthly magazine. No. 136,802; Nov. 9; v. 280; p. 379.
Federal Overgaiter Company, New York, N. Y. Overgaiters or spats. No. 136,416; Nov. 2; v. 280; p. 181.
Federal Rubber Company, The, Cudahy, Wis. Sheet-patching material for tires, &c. No. 129,701; Mar. 9; v 272; p. 363.
Federal Snap Fastener Corporation, New York, N. Y. Snap and placket fasteners. No. 128,693; Jan. 13; v. 270; p. 338.
Federal Snap Fastener Corporation, New York, N. Y. Snap-fasteners, &c. No. 129,282; Feb. 10; v. 271; p. 355.
Federal Snap Fastener Corporation, New York, N. Y. Snap and placket fasteners. No. 129,983; Mar. 16; v. 272; p. 539.
Federal Snap Fastener Corporation, New York, N. Y. Snap and placket fasteners. No. 132,141; June 15; v. 275; p. 617.
Federal Snap Fastener Corporation, New York, N. Y. Snap and placket fasteners. No. 132,677; June 29; v. 275; p. 1015.
Federal Snap Fastener Corporation, New York, N. Y. Snap and placket fasteners. No. 133,051; Aug. 3; v. 277; p. 172.
Federal Soap Company, The, Columbus, Ohio. Yellow laundry soap. No. 133,652; Aug. 3; v. 277; p. 172.
Federal Soap Company, The, Columbus, Ohio. White laundry soap. No. 135,671; Oct. 19; v. 279; p. 527.
Federal Sugar Refining Company, Yonkers and New York, N. Y. Granulated cane-sugar. No. 133,412; July 27; v. 276; p. 768
Federal Tool & Alloy Steel Corporation, New York, N. Y. Iron and steel. No. 131,307; May 11; v. 274; p. 400.
Federal Tool & Alloy Steel Corporation, New York, N. Y. Iron and steel. No. 133,129; July 13; v. 276; p. 402.
Federal Varnish Co., Chicago, Ill. Enamel paint, oil, and acid stains, coaters, &c. No. 131,750; May 25; v. 274; p. 831.
Federal Water Heater Company, Los Angeles, Calif. Water-heaters. No. 138,183; Dec. 14; v. 281; p. 404.
Federer, Charles A., Cleveland, Ohio. Non-alcoholic soft-drink beverage. No. 135,990; Oct. 26; v. 279; p. 718.
Feeback, Harry F., El Paso, Tex. Hair-tonic. No. 134,644; Sept. 14; v. 278; p. 355.
Feehan, Medora A., Haverhill, Mass. Men's, women's, and children's shoes, boots, and slippers. No. 130,498; Apr. 27; v. 273; p. 802.
Feigel, M., & Bro., Inc., New York, N. Y. Glue. No. 134,235; Aug. 24; v. 277; p. 777.
Feigel, M., & Bro., Inc., New York, N. Y. Glue. No. 137,595; Nov. 30; v. 280; p. 997.
Feinberg & Feinberg, New York, N. Y. Cravats and neckties. No. 134,645; Sept. 14; v. 278; p. 355.
Feinstein, P., & Sons, New York, N. Y. Clothing for outer wear for men. No. 137,596; Nov. 30; v. 280; p. 997.
Feisel, Edwin J., San Francisco, Calif. Infants' and children's articles of clothing. No. 138,448; Dec. 28; v. 281; p. 782.
Felder Shoe Mfg. Co., Seattle, Wash. Boots and shoes made of leather. No. 129,355; Feb. 17; v. 271; p. 508.
Feldman, Emanuel & Company, Philadelphia, Pa. **Men's suits and overcoats.** No. 135,440; Oct. 12; v. 279; p. 343.
Feldman, Manuel, New York, N. Y. Rag and grass rugs. No. 133,653; Aug. 3; v. 277; p. 172.
Feldstein, Morris, New York, N. Y. Hats and caps for men and boys. No. 131,751; May 25; v. 274; p. 831.
Felice & Perrelli Canning Co., Gilroy, Calif. Canned fruits and vegetables. No. 136,417; Nov. 2; v. 280; p. 181.
Fellner, Frank D., Cranston, R. I. Disinfectant, deodorizer, &c. No. 138,449; Dec. 28; v. 281; p. 782.
Ferd. Baller & Co., Catania, Italy. Oils of lemon, &c., used in medicinal preparations. No. 129,283; Feb. 10; v. 271; p. 355.
Ferdinand Gutmann & Co., New York, N. Y. Toy soldiers, dishes, and furniture. No. 132,954; July 6; v. 276; p. 201.
Ferguson, H. K., Company, Cleveland, Ohio. Permanent buildings and structural elements thereof. No. 133,244; July 20; v. 276; p. 590.
Ferguson, H. K., Company, The, Cleveland, Ohio. Plans and specifications. No. 135,991; Oct. 26; v. 279; p. 718.
Ferguson, Herman B., New York, N. Y. Underwear for men, one and two piece garments. No. 132,370; June 22; v. 275; p. 818.
Fernley, George A., Philadelphia, Pa. Roofing made of tin. No. 137,220; Nov. 23; v. 280; p. 793.
Ferris Shoe Company, The, Philadelphia, Pa., and Cleveland, Ohio. Children's and infants' leather shoes. No. 133,654; Aug. 3; v. 277; p. 172.
Ferritone Chemical Company, Council Bluffs, Iowa. Laxative pills. No. 138,450; Dec. 28; v. 281; p. 782.
Fesler & Company, St. Louis, Mo. Ointment and tablets for colds, la grippe, and influenza, &c. No. 134,646; Sept. 14; v. 278; p. 355.
Fessler, William R., Kansas City, Kans. Pharmaceutical preparation. No. 131,460; May 18; v. 274; p. 603.
Feuillan, William A., Jr., New Orleans, La. Candy. No. 138,003; Dec. 14; v. 281; p. 397.
Feuser, Conrad, Bloomfield, N. J. Radiator-valves and radiator check-valves. No. 131,110; May 4; v. 274; p. 196.
Fiat Metal Manufacturing Company, Chicago, Ill. Steel toilet partitions and drainage-fittings. No. 129,154; Jan. 27; v. 270; p. 614.
Fibre Products Co., Boston, Mass. Rubber or composition soles, heels, and taps. No. 132,142; June 15; v. 275; p. 617.
Fidelity Chocolate Company, Boston, Mass. Chocolates, bonbons, &c. No. 128,377; Jan. 6; v. 270; p. 180.
Fidelity Chocolate Company, Boston, Mass. Chocolate candies. No. 137,597; Nov. 30; v. 280; p. 997.
Field, Marshall, & Company, Chicago, Ill. Draperies and decorative fabrics. No. 133,279; July 20; v. 276; p. 591.
Fikes, William J., St. Louis, Mo. Pudding-powder. No. 134,360; Aug. 31; v. 277; p. 972.
Filene's, William, Sons Company, Boston, Mass. Clothing for boys. No. 129,455; Feb. 24; v. 271; p. 678.
Filletin & Chochkoff Company, Milwaukee, Wis. Salve for sweaty feet. No. 128,975; Jan. 20; v. 270; p. 473.
Finch, Van Slyck & McConville, St. Paul, Minn. Men's overalls. No. 129,155; Jan. 27; v. 270; p. 614.
Finck, William M., & Company, Detroit, Mich. Work-clothing. No. 135,992; Oct. 26; v. 279; p. 718.
Fine Colors Company, Paterson, N. J. Dry colors. No. 129,356; Feb. 17; v. 271; p. 508.
Fine Colors Company, Paterson, N. J. Colors for the manufacture of inks. No. 129,703; Mar. 9; v. 272; p. 363.
Fine & Levy, New York, N. Y. Men's and boys' caps. No. 133,655; Aug. 3; v. 277; p. 172.
Finery Hosiery Corporation, New York, N. Y. Hosiery. No. 132,143; June 15; v. 275; p. 617.
Fingl, Anton W., Chicago, Ill. Liniments. No. 131,461; May 18; v. 274; p. 603.
Fink, Geo. A., Co., New York, N. Y. Brooms, brushes, and mops. No. 132,939; July 6; v. 276; p. 201.
Fink, William B., New York, N. Y. Bread, cakes, and biscuits. No. 129,704; Mar. 9; v. 272; p. 363.
Finlay, Thomas, Auckland, New Zealand. Guide-rulers for scholastic purposes. No. 128,378; Jan. 6; v. 270; p. 180.
Finley Acker Co., Philadelphia, Pa. Olives and olive-oil. No. 135,377; Oct. 12; v. 279; p. 341.
Finley Acker Co., Philadelphia, Pa. Foods. Nos. 135,993–4; Oct. 26; v. 279; p. 718.
Finney, C. L., Canton, Ohio. Medicine for dyspepsia, heartburn, indigestion, &c. No. 135,672; Oct. 19; v. 279; p. 527.
Firestone Tire and Rubber Company, The, Akron, Ohio. Boots, overshoes, pacs, &c. No. 130,720; May 4; v. 274; p. 184.
First Aid Extinguisher Co., New York, N. Y. Chemical fire-extinguishing compound. No. 128,379; Jan. 6; v. 270; p. 180.
Firth Company Limited, The, Warrington, England. Wire rope. No. 137,025; Nov. 16; v. 280; p. 583.
Fischer, Albert C., Chicago, Ill. Mineral wool talc, raw asbestos, &c. No. 136,419; Nov. 2; v. 280; p. 181.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Fischer, Albert C., Chicago, Ill. Shaving powder, soap and paste, auto-soap, &c. No. 136,420; Nov. 2; v. 280; p. 181.

Fischer, Albert C., Chicago, Ill. Adhesive cements, mastics, paper, cloth, &c. No. 136,803; Nov. 9; v. 280; p. 379.

Fischer, Albert C., Chicago, Ill. Grape-juice and non-alcoholic soft drinks. No. 137,221; Nov. 23; v. 280; p. 793.

Fischer, Hugo, Brooklyn, N. Y. Dyed furs. No. 135,441; Oct. 12; v. 279; p. 343.

Fischer, J. & C., New York, N. Y. Pianofortes, grand and upright pianos, and player-pianos. No. 134,647; Sept. 14; v. 278; p. 355.

Fisher, Frank J., Oconto, Wis. Non-alcoholic beverages. No. 129,156; Jan. 27; v. 270; p. 614.

Fisher, I., Son & Co., Philadelphia, Pa. Hosiery. No. 134,944; Sept. 21; v. 278; p. 531.

Fisher, James F., Honolulu, Hawaii. Monthly, weekly, and periodical publications. No. 138,241; Dec. 21; v. 281; p. 563.

Fisher, John L., & Brother, Louisville, Ky. Medicine for certain diseases. No. 135,995; Oct. 26; v. 279; p. 718.

Fisher, Lee, Mount Sterling, Ky. Medicine for scars, croup, &c. No. 128,694; Jan. 13; v. 270; p. 338.

Fisher, Nath'l, & Co., New York, N. Y. Boots, shoes, and slippers of leather. No. 129,381; Feb. 17; v. 271; p. 509.

Fisher, Nath'l, & Co., New York, N. Y. Boots, shoes, and slippers of leather, rubber, &c. Nos. 133,762–3; Aug. 3; v. 277; p. 175.

Fisher, R. E., & Sons, Mahanoy City, Pa. Hair-tonic. No. 137,784; Dec. 7; v. 281; p. 196.

Fisher, Robert J., Athens, Tenn. Hosiery. No. 128,695; Jan. 13; v. 270; p. 338.

Fisher, William J., & Co., Boston, Mass. Cigars. No 133,413; July 27; v. 276; p. 768.

Fisheries Products Co., Inc., The, New York, N. Y. Fertilizers. No. 134,361; Aug. 31; v. 277; p. 972.

Fisk-Jencks Foundry Co., Geneva, Ill. Cast-iron castings. No. 138,004; Dec. 14; v. 281; p. 397.

Fiske Brothers Refining Co., New York, N. Y. Lubricating oils and greases. No. 136,804; Nov. 9; v. 280; p. 378.

Fitzgerald & Perry, Keota, Iowa. Medicinal preparation to be externally used. No. 134,648; Sept. 14; v. 278; p. 355.

Fitzpatrick Bros., Chicago, Ill. Washing compound. No. 129,705; Mar. 9; v. 272; p. 363.

Fitzpatrick Bros., Chicago, Ill. Cleaning compound. No. 134,858; Sept. 14; v. 278; p. 363.

Flaherty, John T., Springfield, Mass. Preparation for filling cavities and healing cuts in rubber tires, rubber shoes, and rubber goods. No. 135,996; Oct. 26; v. 279; p. 718.

Flaherty & Urbanowski Co., Peru, Ill. Canned foods and vanilla and lemon extracts. No. 129,157; Jan. 27; v. 270; p. 614.

Flaketown Graphite Co., Mountain Creek, Ala. Graphite. No. 137,222; Nov. 23; v. 280; p. 793.

Fleckenstein, C. G., Co., Muskegon, Mich. Leather soles and heels. No. 131,111; May 4; v. 274; p. 196.

Fleischmann's Vienna Model Bakery, (Inc.,) New York, N. Y. Doughnuts. No. 128,380; Jan. 6; v. 270; p. 180.

Fleishel, Stella S., New York, N. Y. Negligées, semidress-gowns, wrappers, and kimonos. No. 137,598; Nov. 30; v. 280; p. 997.

Fleisher, W. L., & Co., Inc., New York, N. Y. Air-conditioning apparatus, air-driers, &c. No. 134,649; Sept. 14; v. 278; p. 355.

Fleitmann, Watjen & Co. Inc., New York, N. Y. Dried fruits, evaporated milk, canned fish, lard, &c. No. 128,381; Jan. 6; v. 270; p. 180.

Fleming, John S., Miltonvale, Kans. Lice-powder and disinfectants. No. 132,678; June 29; v. 275; p. 1015.

Flex-Tic Supply Company, The, Harris, Iowa. Auction-sale outfits. No. 133,963; Aug. 10; v. 277; p. 387.

Flexible Steel Lacing Company, Chicago, Ill. Flexible or hinged belt-fasteners. No. 137,223; Nov. 23; v. 280; p. 793.

Flickinger, S. M., Co. Inc., Buffalo, Jamestown, and Rochester, N. Y. Coffee. No. 137,224; Nov. 23; v. 280; p. 793.

Flint, George, Philadelphia, Pa. Artificial teeth. No. 132,940; July 6; v. 276; p. 201.

Flirtation Candy Co., Chicago, Ill. Chocolates. No. 135,997; Oct. 26; v. 279; p. 718.

Flood, Arthur M., San Francisco, Calif. Medicinal preparation to be used as a dentifrice. No. 131,308; May 11; v. 274; p. 400.

Florence Citrus Growers Association, Florence Villa, Fla. Fresh citrus fruits. Nos. 137,225–6; Nov. 23; v. 280; p. 793.

Florence Manufacturing Company, Northampton, Mass. Hair-brushes. No. 135,998; Oct. 26; v. 279; p. 718.

Florein, Annie T., Cincinnati, Ohio. Preparation for treatment of female irregularities, &c. No. 128,696; Jan. 13; v. 270; p. 338.

Flores, Anania, Brownsville, Pa. Medicine for stomach, liver, strength-tonic, appetite, and a physic. Nos. 132,679–80; June 29; v. 275; p. 1015.

Florida Fruit Juice Co., Inc., New York, N. Y. Non-alcoholic maltless beverage. No. 132,372; June 22; v. 275; p. 818.

Florida Fruit Juice Co., Inc., New York, N. Y. Extract for the manufacture of a non-alcoholic beverage. No. 136,418; Nov. 2; v. 280; p. 181.

Florin, Philip, New York, N. Y. Wallets, bill-folds, and three-folds of leather. No. 128,976; Jan. 20; v. 270; p. 473.

Florman, Irving, New York, N. Y. Flexible protective facings or coverings for watch and clock dials. No. 132,941; July 6; v. 276; p. 201.

Flossmint Company, The, Spokane, Wash. Candies. No. 136,421; Nov. 2; v. 280; p. 181.

Foamite Firefoam Company, New York, N. Y. Hand-operated portable and stationary fire-extinguishers. No. 133,964; Aug. 10; v. 277; p. 387.

Foersterling, Hans, Jamesburg, N. J. Foods. No. 130,178; Apr. 13; v. 273; p. 402.

Foley & Company, Chicago, Ill. Medicines, salves, &c. No. 128,697; Jan. 13; v. 270; p. 338.

Foley & Company, Chicago, Ill. Cold, cough, lung, and bronchial medicines, &c. No. 129,456; Feb. 24; v. 271; p. 678.

Fondaol Laboratories Co., Kansas City, Mo. Medicine for the treatment of sores, cuts, and wounds. No. 131,752; May 25; v. 274; p. 831.

Food Appliances Manufacturing Corporation, Rochester, N. Y. Butter-serving machines. No. 132,144; June 15; v. 275; p. 617

Food Appliance Manufacturing Corporation, Rochester, N. Y. Butter-serving machines. No. 132,373; June 22; v. 275; p. 818.

Foot, Schulze & Co., St. Paul, Minn. Men's leather boots and shoes. No. 131,112; May 4; v. 274; p. 196.

Foote Company, The, Nunda, N. Y. Caterpillar type of paving-mixers. No. 129,158; Jan. 27; v. 270; p. 614.

Forbriger, Paul, & Co., New York, N. Y. Watches, watch cases, works, and dials. No. 135,240; Sept. 28; v. 278; p. 702.

Force Air Pump Company, Jefferson, Iowa. Automobile-tire pumps. No. 130,721; May 4; v. 274; p. 185.

Ford & Cohen, Boston, Mass. Clothing. No. 137,785; Dec. 7; v. 281; p. 196.

Ford, Gertrude H., Tea Company, New York, N. Y. Teas. No. 130,722; May 4; v. 274; p. 185.

Ford Manufacturing Co., Waterford, N. Y. Knitted underwear for men and children. No. 133,656; Aug. 3; v. 277; p. 172.

Ford Manufacturing Co., Waterford, N. Y. Knitted underwear. No. 134,945; Sept. 21; v. 278; p. 531.

Ford Mica Company, Inc., New York, N. Y. Spark-plugs. No. 133,657; Aug. 3; v. 277; p. 172.

Ford Roofing Products Company, Incorporated, Chicago, Ill., and St. Louis, Mo. Prepared asphalt roofing. Nos. 137,599–600; Nov. 30; v. 280; p. 997.

Ford Roofing Products Company, Incorporated, Chicago, Ill., and St. Louis, Mo. Shingles and prepared asphalt roofing. No. 137,601; Nov. 30; v. 280; p. 997.

Ford Roofing Products Company, Incorporated, Chicago, Ill., and St. Louis, Mo. Prepared asphalt roofing. Nos. 137,602–3; Nov. 30; v. 280; p. 997.

Ford Roofing Products Company, Incorporated, Chicago, Ill., and St. Louis, Mo. Shingles and prepared roofing. No. 137,604; Nov. 30; v. 280; p. 997.

Fordom Textile Company, Inc., New York, N. Y. Cotton piece goods. No. 129,706; Mar. 9; v. 272; p. 363.

Foreman, Jules L., New York, N. Y. Silk piece goods. No. 129,707; Mar. 9; v. 272; p. 363.

Forest Paper Company, Inc., New York, N. Y. Writing and printing bond-paper, &c. No. 128,977; Jan. 20; v. 270; p. 473.

Forest Paper Company, New York, N. Y. Writing and printing bond-paper, ledger and writing paper, and mailing-envelops. No. 134,946; Sept. 21; v. 278; p. 531.

Forest & Stream Publishing Co. Inc., New York, N. Y. Fishing rods and hooks. No. 128,382; Jan. 6; v. 270; p. 180.

Forged Products Co., Chicago, Ill. Unfinished and machined iron and steel forgings. No. 128,698; Jan. 13; v. 270; p. 338.

Formby Petrinite Corporation, Jacksonville, Fla. Tile, brick, and artificial stone. No. 133,245; July 20; v. 276; p. 590.

Formby Petrinite Corporation, Jacksonville, Fla. Hardening and strengthening materials for use with tile, brick, &c. No. 137,605; Nov. 30; v. 280; p. 997.

Forst, Morris, New York, N. Y. Ironing-wax. No. 129,708; Mar. 9; v. 272; p. 363.

Forst, William H., Scottdale, Pa. Hair-tonic. No. 135,241; Sept. 28; v. 278; p. 702.

Forstmann & Huffmann Co., Passaic, N. J. Woolen piece goods. Nos. 129,709–11; Mar. 9; v. 272; p. 362.

Forstmann & Huffmann Co., Passaic, N. J. Woolen piece goods. Nos. 129,962–3; Mar. 9; v. 272; p. 371.

Forstmann & Huffmann Co., Passaic, N. J. Woolen piece goods. No. 130,723; May 4; v. 274; p. 185.

Forstmann & Huffmann Co., Passaic, N. J. Woolen piece goods. Nos. 131,462–3; May 18; v. 274; p. 603.

Forstmann & Huffmann Co., Passaic, N. J. Woolen piece goods. Nos. 133,658–9; Aug. 3; v. 277; p. 172.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Forstmann & Huffmann Co., Passaic, N. J. Woolen piece goods. Nos. 135,242–3; Sept. 28; v. 278; p. 702.
Forstmann & Huffmann Co., Passaic, N. J. Woolen piece goods. Nos. 135,674–5; Oct. 19; v. 279; p. 528.
Forstmann & Huffmann Co., Passaic, N. J. Woolen piece goods. No. 135,999; Oct. 26; v. 279; p. 718.
Forsyth Dental Infirmary for Children, Boston, Mass. Dentifrice. No. 134,947; Sept. 21; v. 278; p. 531.
Fort Pitt Malleable Iron Co., Pittsburgh and McKees Rocks, Pa. Malleable-iron castings. No. 132,942; July 6; v. 276; p. 201.
Fort Wayne Drug Company, Fort Wayne, Ind. Flat interior oil-paint. No. 132,374; June 22; v. 275; p. 818.
Fortner, William A., Cisco, Tex. Knockdown buildings. No. 131,113; May 4; v. 274; p. 196.
Fortune Products Company, Chicago, Ill. Spaghetti, macaroni, vermicelli, and egg-noodles. Nos. 133,965–6; Aug. 10; v. 277; p. 387.
Fortune Products Company, Chicago, Ill. Spaghetti, macaroni, vermicelli, and egg-noodles. No. 137,786; Dec. 7; v. 281; p. 196.
Forward Sparking Plug Co., Birmingham, England. Sparking plugs for internal-combustion engines. No. 132,943; July 6; v. 276; p. 201.
Foster, C. B., Biloxi, Miss. Canned shrimp. No. 134,362; Aug. 31; v. 277; p. 972.
Foster Engineering Co., Newark, N. J. Valves and regulators, pump-governors, &c. No. 137,227; Nov. 23; v. 280; p. 793.
Foster, Henry A., Rome, N. Y. Kidney, liver, and bladder tablets. No. 138,451; Dec. 28; v. 281; p. 782.
Foster Laboratory, Newark, N. J. Vanishing and face creams, depilatory powder. No. 129,712; Mar. 9; v. 272; p. 363.
Foster-Reinhold Laboratories, New York, N. Y., assignor to Foster-Reinhold Laboratories, Newark, N. J. Composition for coating and plating metals. Nos. 129,284–5; Feb. 10; v. 271; pp. 355–6.
Foster Rubber Company, Kennebunk, Me., and Boston, Mass. Rubber soles and heels. No. 132,375; June 22; v. 275; p. 818.
Fougera, E., & Co., New York, N. Y. Medicines for the prevention of infections of the urinary tract. No. 134,650; Sept. 14; v. 278; p. 355.
Fougera, E., & Co., New York, N. Y. Soap for personal and laundry purposes. No. 136,000; Oct. 26; v. 279; p. 718.
Foulds-Briggs Co., Cincinnati, Ohio. Macaroni, spaghetti, noodles. No. 133,414; July 27; v. 276; p. 768.
Fow, Linda F., Jenkintown, Pa. Face-lotion. No. 131,753; May 25; v. 274; p. 831.
Fowler, Charles A., Chicago, Ill. Syrup for making non-alcoholic non-cereal maltless beverages. No. 132,145; June 15; v. 275; p. 617.
Fowler, Charles A., Chicago, Ill. Syrup used for making non-alcoholic, non-intoxicating, maltless beverages. No. 133,660; Aug. 3; v. 277; p. 172.
Fowler Nail Co., Seymour, Conn. Horseshoe and molders' nails. No. 130,499; Apr. 27; v. 273; p. 802.
Fowler Nail Co., The, Seymour, Conn. Molder's nails, used in metal foundries. No. 133,130; July 13; v. 276; p. 402.
Fox, Albert T., Baker, Oreg. Headache-powder. No. 136,422; Nov. 2; v. 280; p. 181.
Fox, Frank M., & Co., Saegertown, Pa. Carbonated laxative. No. 132,681; June 29; v. 275; p. 1015.
Fox River Paper Company, Appleton, Wis. Writing-paper. No. 134,316; Aug. 24; v. 277; p. 782.
Fox River Paper Company, Appleton, Wis. Writing-paper. No. 134,859; Sept. 14; v. 278; p. 363.
Fox River Paper Company, Appleton, Wis. Writing-paper. No. 136,805; Nov. 9; v. 280; p. 379.
Foxley Stave and Lumber Co., Ltd., New Orleans, La. Staves. No. 134,860; Sept. 14; v. 278; p. 363.
Fraass, Aug. E., New York, N. Y. Dental, medical, and surgical appliances. No. 137,787; Dec. 7; v. 281; p. 196.
Framingham Manufacturing Company, Framingham, Mass. Metal valves for general use, pump-governors, and pressure-reducing valves. No. 132,944; July 6; v. 276; p. 201.
Frampton Chemical Co., Seattle, Wash. Soaps, cleansers, and metal-polishes. No. 133,967; Aug. 10; v. 277; p. 387.
Franc, Strohmenger & Cowan, Inc., New York, N. Y. Neckties, cravats, and scarfs. No. 131,754; May 25; v. 274; p. 831.
Francis, Frank L., Newark, N. J. Hair-tonics. No. 128,699; Jan. 13; v. 270; p. 338.
Franck & Marx, New York, N. Y. Broad-silk fabrics in the piece. No. 136,423; Nov. 2; v. 280; p. 181.
Frank Canning Co., Los Angeles, Calif. Canned vegetables and fruits. No. 136,424; Nov. 2; v. 280; p. 181.
Frank, Dr. Abraham, Philadelphia, Pa. Stomach preparation. No. 129,357; Feb. 17; v. 271; p. 508.
Frank, Leopold, London, England. Woolen blankets not in the piece. No. 136,001; Oct. 26; v. 279; p. 718.
Frank & Lewis Company, McKeesport, Pa. Non-alcoholic herb beverage. No. 132,376; June 22; v. 275; p. 818.
Frank, Maurice, New York, N. Y. Bales or bags of waste cotton, silk, and woolen rags and waste paper. No. 132,945; July 6; v. 276; p. 201.
Frank, Richard, New York, N. Y. Flavoring substance No. 136,806; Nov. 9; v. 280; p. 379.
Frankel Brothers, New York, N. Y. Men's trousers, coats, vests, overcoats, and suits. No. 137,228; Nov. 23; v. 280; p. 793.
Frankenstein, Henry, New York, N. Y. Device for cleaning bristle brushes and brooms. No. 131,464; May 18; v. 274; p. 603.
Frankfeld, B., and Co., New York, N. Y. Piece goods, ribbons, laces, &c. No. 129,457; Feb. 24; v. 271; p. 678.
Franklin Baker Company, The, Philadelphia, Pa. Packaged, grated, and shredded cocoanut. No. 132,683; June 29; v. 275; p. 1015.
Franklin Simon & Co. Inc., New York, N. Y. Garments for men, women, and children. No. 130,575; Apr. 27; v. 273; p. 805.
Franklin Storage Battery Co., Chicago, Ill. Storage batteries. No. 30,296; Apr. 20; v. 273; p. 620.
Franklin Tire & Rubber Company, The, Kent, Ohio. Rubber tire-casings and inner tubes. No. 138,542; Dec. 28; v. 281; p. 786.
Fraser, Maurice, Detroit, Mich. Sanitary cover for toilet-seats. No. 132,683; June 29; v. 275; p. 1015.
Freadrich, Joseph J., St. Louis, Mo. Leather belting. Nos. 133,661–2; Aug. 3; v. 277; p. 172.
Freden, Alfred L., Brooklyn, N. Y. Bouillon-cubes. No. 134,236; Aug. 24; v. 277; p. 777.
Frederick Disinfectant Company, Atlanta, Ga. Insecticides and disinfectants. No. 129,278; Feb. 10; v. 271; p. 355.
Frederick & Nelson, Seattle, Wash. Women's shoes. No. 128,700; Jan. 13; v. 270; p. 338.
Fredericks, Maurice B., New York, N. Y. Paper fiber. No. 132,946; July 6; v. 276; p. 201.
Free Land Overall Manufacturing Co., The, Freeland and Dubois, Pa. Overalls. No. 133,663; Aug. 3; v. 277; p. 172.
Free Sewing Machine Company, Rockford, Ill. Sewing-machines. No. 135,442; Oct. 12; v. 279; p. 343.
Freedman, Arthur O., Boston, Mass. Skin-lotion. No. 136,425; Nov. 2; v. 280; p. 181.
Freedman, Hyman, Chicago, Ill. Furniture. No. 134,948; Sept. 21; v. 278; p. 531.
Freeland, Helen, Los Angeles, Calif. Dress foundations and linings. No. 137,606; Nov. 30; v. 280; p. 997.
Freeman-Daughaday Co., Chartley, Mass. Collar-holders. No. 137,229; Nov. 23; v. 280; p. 793.
Freeport Condensed Milk Co., Chicago, Ill. Evaporated milk. No. 136,426; Nov. 2; v. 280; p. 181.
Freiburger, S., & Bro. Co. Inc., Fort Wayne, Ind. Shoes. No. 137,230; Nov. 23; v. 280; p. 793.
Freidson, Joseph, Boston, Mass. Shoes. No. 137,231; Nov. 23; v. 280; p. 793.
Freihofer, Stanley H., Atlantic City, N. J. Bread. No. 133,664; Aug. 3; v. 277; p. 172.
French Battery & Carbon Co., Madison, Wis. Dry-cell batteries. No. 132,947; July 6; v. 276; p. 201.
French Bros. Co., Medford, Mass. Non-alcoholic, non-cereal, maltless beverages and syrups for making the same. No. 136,808; Nov. 9; v. 280; p. 379.
French Knitting Company, Pawtucket, R. I. Men's, women's, and children's hosiery, underwear, and sweaters. No. 129,458; Feb. 24; v. 271; p. 678.
French, Noyes E., Boston, Mass. Fruit punch. No. 138,242; Dec. 21; v. 281; p. 564.
French Valley Springs, Incorporated, Meadville, Pa. Ginger-ale. No. 128,701; Jan. 13; v. 270; p. 338.
Fresno Brewing Co., Fresno, Calif. Ice-cream and ices. No. 130,724; May 4; v. 274; p. 185.
Freund Bros. & Company, Inc., New York, N. Y. Pocketbooks. No. 128,883; Jan. 6; v. 270; p. 180.
Friedman, David, New York, N. Y. Pajamas. No. 138,248; Dec. 21; v. 281; p. 564.
Friedman-Haas Co., The, Cleveland, Ohio. Dresses and skirts. No. 123,246; July 20; v. 276; p. 590.
Friedman, L. & S., New York, N. Y. Coats, vests, trousers, and overcoats. No. 135,443; Oct. 12; v. 279; p. 343.
Friedman, Louis, New York, N. Y. Waistbands. No. 138,452; Dec. 28; v. 281; p. 782.
Friedman & Moss, Inc., New York, N. Y. Plain and printed broad silks in pieces. No. 133,666; Aug. 3; v. 277; p. 172.
Friedman & Moss, Inc., New York, N. Y. Plain and printed broad silks in pieces. No. 133,968; Aug. 10; v. 277; p. 387.
Friend Lewis, New York, N. Y. Skin-emollient. No. 132,377; June 22; v. 275; p. 818.
Frigidaire Corporation, The, Detroit, Mich. Refrigerators. No. 137,502; Nov. 23; v. 280; p. 803.
Frisbie Motor Company, The, Middletown, Conn. Internal-combustion engines. No. 137,607; Nov. 30; v. 280; p. 997.
Frisching, Joseph A., Utica, N. Y. Underwear. No. 137,783; Dec. 7; v. 281; p. 195.
Frishmuth Bro. & Company, Incorporated, Philadelphia, Pa. Cigarettes. No. 133,415; July 27; v. 276; p. 768.
Frishmuth Bro. & Company, Inc., Philadelphia, Pa. Smoking and chewing tobacco and cigarettes. No. 133,665; Aug. 3; v. 277; p. 172.
Fritch, Harry H., Chicago, Ill. Polish for pianos, furniture, woodwork, &c. No. 137,608; Nov. 30; v. 280; p. 997.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Fritsche, Rudolf, New York, N. Y. Photographic developing compound. No. 138,453; Dec. 28; v. 281; p. 782.
Fritz, Geo. H., & Sons, Inc., Newark, N. J. Fruit-flavored sugar candies. No. 128,884; Jan. 6; v. 270; p. 180.
Fritz-Richards Company, Lynchburg, Va. Leather shoes. No. 134,364; Aug. 31; v. 277; p. 972.
Froes, Arsenio Jose, & Company, Inc., New York, N. Y. Table covers, napkins, table and bureau scarfs, handkerchiefs. No. 130,626; May 4; v. 274; p. 182.
Frolaset Corset Company, Detroit, Mich. Article of wearing-apparel. No. 138,244; Dec. 21; v. 281; p. 564.
Froloug, Lena, Oakland, Calif. Salve for the feet. No. 131,465; May 18; v. 274; p. 603.
From, Harris, Brooklyn, N. Y. Fishing-reels. No. 130,500; Apr. 27; v. 13; p. 802.
Frost, George, Company, Boston, Mass. Garters. No. 135,673; Oct. 19; v. 279; p. 528.
Frost, Milton A., San Antonio, Tex. Shaving-lotion and shampoo. No. 136,002; Oct. 26; v. 279; p. 718.
Frost, Walter B., Providence, R. I. Periodical publication. No. 136,427; Nov. 2; v. 280; p. 181.
Fruit Valley Corporation, Rochester, N. Y. Concentrated syrup and non-alcoholic beverage made from same. No. 131,466; May 18; v. 274; p. 603.
Fruit Valley Corporation, Rochester, N. Y. Syrup and non-alcoholic beverages made from same. No. 131,755; May 25; v. 274; p. 831.
Fry, Silas W., New York, N. Y. All kinds and grades of typewriter-ribbons and carbon-papers. No. 136,428; Nov. 2; v. 280; p. 181.
Fuchs, Philip, New York, N. Y. Salves and ointments for treatment of the skin. No. 134,363; Aug. 31; v. 277; p. 972.
Fudge, Ernest H., Windsor, England. Liquid preparation for cleaning and polishing silver and plate. No. 135,676; Oct. 19; v. 279; p. 528.
Fuerst & Kraemer, Ltd., New Orleans, La. Candies. No. 131,114; May 4; v. 274; p. 196.
Fuerst & Kraemer Limited, New Orleans, La. Candy. No. 134,949; Sept. 21; v. 278; p. 531.
Fuji-Gasu Spinning Company, Oshima-machi, Minami-Katsushika-Gori, Japan. Silk piece goods. No. 129,713; Mar. 9; v. 272; p. 363.
Fukuhara, Shinzo, Tokyo, Japan. Toilet preparations. No. 131,467; May 18; v. 274; p. 603.
Fuld, Isaac, Baltimore, Md. Games, toys, and sporting goods. No 132,378; June 22; v. 275; p. 818.
Fuld, Traube & Co. Inc., New York, N. Y. Veils, malines, hair-nets, chiffons. No. 130,297; Apr. 20; v. 273; p. 620.
Fuld, William, Baltimore, Md. Game known as a talking-board. No. 130,142; Apr. 6; v. 273; p. 182.
Fuld, William, Baltimore, Md. Talking-boards. No. 137,521; Nov. 23; v. 280; p. 805.
Fulfashon Hosiery Company, New York, N. Y. Hosiery, Nos. 134,651–2; Sept. 14; v. 278; p. 855.
Fulford Mfg. Co., Providence, R. I. Snap-fasteners. No. 130,298; Apr. 20; v. 273; p. 620.
Fulghum & Company, Los Angeles, Calif. Face-veils and hair-nets. No. 135,444; Oct. 12; v. 279; p. 343.
Fulghum & Company, Los Angeles, Calif. Hair-nets. No. 134,950; Sept 21; v. 278; p. 531.
Fuller, Ralph L., & Co., Inc., Scarsdale and New York, N. Y. Dyestuffs. No. 132,684; June 29; v. 275; p. 1015.
Fully, Fred G., Portland, Oreg. Liquid coating for preventing clouding of windows and glass wind-shields. No. 137,609; Nov. 30; v. 280; p. 997.
Fulton Bros. Mfg. Co., Waukegan, Ill. Phonographs, motors for same, tone-arms, &c. No. 128,978; Jan. 20; v. 270; p. 473
Fulton Tool Works, Huntington, W. Va. Machinery and tools. No. 132,379; June 22; v. 275; p. 818.
Fulton, W. G., Washington, D. C. Ironing-boards. No. 128,885; Jan. 6; v. 270; p. 180.
Fults, Lafayette, Jr., E. Lloyd McKenzie, and F. W. Korsmeyer, Colorado Springs, Colo. Food-drink. No. 137,026; Nov. 16; v. 280; p. 583.
Fumigo Manufacturing Co., Philadelphia, Pa. Fumigating compound. No. 137,233; Nov. 23; v. 280; p. 793.
Funk & Wagnalls Company, New York, N. Y. Moving-picture films. No. 135,244; Sept. 28; v. 278; p. 702.
Funk & Wagnalls, New York, N. Y. Periodical published weekly. No. 135,245; Sept. 28; v. 278; p. 702.
Funk & Wagnalls Company, New York, N. Y. Moving-picture films. No. 135,246; Sept. 28; v. 278; p. 702.
Funke, Jos. B., Company, La Crosse, Wis. Candy. No. 128,702; Jan. 13; v. 270; p. 338.
Fuqua, John B., Altus, Okla. Medicinal preparation for venereal diseases. No. 128,703; Jan. 13; v. 270; p. 338.
Furber, Frederick M., Revere, Mass., assignor to Furber Manufacturing Corporation. Spark-plugs. No. 130,299; Apr. 20; v. 273; p. 620.
Furber Manufacturing Corporation. (See Furber, Frederick M., assignor.)
Furman, Robert T., New York, N. Y. Inks of various kinds and colors. No. 131,756; May 25; v. 274; p. 831.
Furman, Robert T., New York, N. Y. Library-paste, mucilage. No. 134,237; Aug. 24; v. 277; p. 778.
Furry Fruit & Produce Co., Yakima, Wash. Fresh fruits. No. 130,300; Apr. 20; v. 273; p. 620.
Futurist Company, The, Chicago, Ill. Men's, women's, and children's hosiery. No. 135,445; Oct. 12; v. 279; p. 343.
Futurist Company, The, Chicago, Ill. Clothing. No. 136,003; Oct. 26; v. 279; p. 718.
Futurist Company, The, Chicago, Ill. Men's, women's, and children's gloves of fabric and leather. No. 137,282; Nov. 23; v. 280; p. 793.
G. & H. Chemical Co., Inc., New York, N. Y. Metal-polish. No. 133,931; Aug. 10; v. 277; p. 386.
Gaba, A. G., Basel, Switzerland. Chemicals, medicines, &c. No. 129,964; Mar. 9; v. 272; p. 371.
Gaba, Anna B., Omaha, Nebr. Waist and skirt beltings No. 132,685; June 29; v. 275; p. 1015.
Gage Brothers & Company, Chicago, Ill. Ladies' hats. No. 132,380; June 22; v. 275; p. 818.
Gagen Sales Corporation, Chicago, Ill. Metal building materials. No. 130,179; Apr. 13; v. 273; p. 402.
Gaillard, Auguste, Malaga, Spain. Olive-oil. Nos. 134,500–1; Sept. 7; v. 278; p. 160.
Gaillard, Ella N., New York, N. Y., and Washington, D. C. Dress-shields. No. 128,704; Jan. 13; v. 270; p. 338.
Gaillard, Ella N., Washington, D. C. Shoe dressings and polishes. No. 129,714; Mar. 9; v. 272; p. 363.
Galbani, Egidio, Melzo, Italy. Cheeses. No. 134,502; Sept. 7; v. 278; p. 160.
Galbraith, Harriet L., Washington, D. C. Stands or supports for sadirons. No. 136,004; Oct. 26; v. 279; p. 718.
Galbraith Milling Company, Mount Morris, N. Y. Wheat-flour. No. 130,725; May 4; v. 274; p. 185.
Galeton Dairy Products Co., Galeton, Pa. Condensed milk. No. 128,705; Jan. 13; v. 270; p. 338.
Galeton Dairy Products Co., Galeton, Pa. Condensed milk. No. 129,716; Mar. 9; v. 272; p. 363.
Gallagher, John, Auburn, Wash. Medicinal preparation for catarrh, asthma, and bronchial troubles. No. 133,667; Aug. 3; v. 277; p. 172.
Gallaher, J. F., Dayton, Ohio. Ointment for the treatment of pimples, dandruff, and dry scaly eczema. No. 134,951; Sept. 21; v. 278; p. 531.
Galveston Typewriter Exchange, Inc., Galveston, Tex. Typewriter-ribbons and carbon-paper. No. 133,969; Aug. 10; v. 277; p. 387.
Gamanos & Booskos, New York, N. Y. Olive-oil. No. 131,982; June 8; v. 275; p. 414.
Gamble, Guy B., Artesia, Calif. Adjustable prop-brackets for supporting trees, bushes, shrubs, &c. No. 136,429; Nov. 2; v. 280; p. 181.
Gambrill, C. A., Manuf'g Company, Baltimore, Md. Self-rising wheat-flour. No. 130,726; May 4; v. 274; p. 185.
Gambrill, C. A., Manufacturing Company, Baltimore, Md. Cereal products and prepared cake-flour. No. 133,970; Aug. 10; v. 277; p. 387.
Gambrill Grain Products Company, The, Baltimore, Md. Barley malt-flour. No. 134,238; Aug. 24; v. 277; p. 778.
Gammon, A. S. J., Norfolk, Va. Memorandum-books. No. 129,717; Mar. 9; v. 272; p. 363.
Gammon, A. S. J., Norfolk, Va. Saving-coupons. No. 129,718; Mar. 9; v. 272; p. 363.
Gammon, A. S. J., Norfolk, Va. Memorandum-book. No. 136,430; Nov. 2; v. 280; p. 181.
Gammon, Arthur H., Haverhill, Mass. Liquid for polishing automobile-bodies, pianos, and furniture. No. 135,446; Oct. 12; v. 279; p. 343.
Gannon, Albert J., Meriden, Conn. Almond, honey, and cold creams, hair-tonics, &c. No. 132,686; June 29; v. 275; p. 1015.
Ganow, Stacy B., New York, N. Y. Neutralizing solvent and eliminant of retained animo acids and uric acid in the blood. No. 138,262; Dec. 21; v. 281; p. 564.
Garcia, Alvaro, New York, N. Y. Cigars. No. 133,247; July 20; v. 276; p. 590.
Garden, Polly B., New York, N. Y. Hair-tonic and gloss and shampoo preparation. No. 134,952; Sept. 21; v. 278; p. 531.
Gardner-Barada Chemical Co., Chicago, Ill. Chemical compounds used in hardening, dressing, and waterproofing concrete surfaces and oilproof enamel for same. No. 129,984; Mar. 16; v. 272; p. 539.
Gardner Bros., Memphis, Tenn. Dental casting-machines and parts of same, &c. No. 128,979; Jan. 20; v. 270; p. 473.
Gardner, Henry A., Paint Co., Washington, D. C. Paints and varnishes. No. 129,719; Mar. 9; v. 272; p. 363.
Gardner Motor Co., St. Louis, Mo. Automobiles. No. 134,653; Sept. 14; v. 278; p. 355.
Gareau, Charles A., Detroit, Mich. Sheltering-troughs for protecting coils on automobiles. No. 131,115; May 4; v. 274; p. 196.
Garfield-Stahl Company, New York, N. Y. Laces in the piece. No. 132,146; June 15; v. 275; p. 617.
Garfinkel, Frank, New York, N. Y. Laxative candy. No. 134,953; Sept. 21; v. 278; p. 531.
Garis, Howard R., Newark, N. J. Series of books. No. 129,720; Mar. 9; v. 272; p. 363.
Garland Milling Company, Greenburg, Ind. Self-rising flour. No. 130,727; May 4; v. 274; p. 185.
Garnett, C. B., Denver, Colo. Washing-powder. No. 135,677; Oct. 19; v. 279; p. 528.

Digitized by Google

Garren, William A., Hendersonville, N. C. Tonic for indigestion, dyspepsia, &c. No. 129,721; Mar. 9; v. 272; p. 363.
Garrett and Company Incorporated, Penn Yan, N. Y. Food-flavoring extracts. No. 129,358; Feb. 17; v. 271; p. 508.
Garrett and Company, Incorporated, New York, N. Y. Dealcoholized wines. No. 134,503; Sept. 7; v. 278; p. 160.
Garrigus, L. E., & Co., Newark, N. J. Jewelry. No. 138,245; Dec. 21; v. 281; p. 561.
Garris, Loyal F., Jackson, Mich. Washing compound. No. 135,678; Oct. 19; v. 279; p. 528.
Gartenlaub, Eve, New York, N. Y. Corn cure. No. 128,706; Jan. 13; v. 270; p. 338.
Garvurin, Leon, New York, N. Y. Toilet preparations. Nos. 132,381–2; June 22; v. 275; p. 818.
Gary Laboratories Company, Gary, Ind. Foot-lotion. No. 134,654; Sept. 14; v. 278; p. 355.
Gas Products Co., Columbus, Ohio. Acetylene gas. No. 128,708; Jan. 13; v. 270; p. 338.
Gas Saver Company, Fort Wayne, Ind. Preparation to increase the efficiency of gasolene. No. 129,722; Mar. 9; v. 272; p. 363.
Gas Tank Recharging Co., Milwaukee, Wis. Acetylene gas and carbid. No. 129,723; Mar. 9; v. 272; p. 363.
Gaskill Chemical Corporation, Brooklyn, N. Y. Fur-dyes. No. 128,707; Jan. 13; v. 270; p. 338.
Gass, Sigmund S., New York, N. Y. Work-shirts. No. 137,454; Nov. 23; v. 280; p. 800.
Gaston, Williams & Wigmore, Inc., New York, N. Y. Turpentine. No. 135,247; Sept. 28; v. 278; p. 702.
Gates Rubber Company, The, Denver, Colo. Rubber tires. No. 134,655; Sept. 14; v. 278; p. 355.
Gates, William H., Norfolk, Va. Home-made candies and chocolates. No. 128,709; Jan. 13; v. 270; p. 338.
Gatlin, E. C., Company, Kansas City, Mo. Prepared cake mixture. No. 135,248; Sept. 28; v. 278; p. 702.
Gatton, Roscoe B., Chicago, Ill. Talking-machines. No. 136,005; Oct. 26; v. 279; p. 718.
Gaughan & Painter, Jeannette, Pa. Hair-tonics. No. 129,459; Feb. 24; v. 271; p. 678.
Gault, Herbert M., Baltimore, Md. Monuments and tombstones. No. 128,980; Jan. 20; v. 270; p. 473.
Gavey, William S., New York, N. Y. Textile fabrics. No. 133,248; July 20; v. 276; p. 590.
Geary, Thomas, Chicago, Ill. Tonic for the treatment of general debility, &c. No. 131,468; May 18; v. 274; p. 603.
Geer, Walter L., New York, N. Y. Olive-oil. No. 130,301; Apr. 20; v. 273; p. 620.
Gelarie, Saul, & Company, Brooklyn and New York, N. Y. Bloomers. No. 129,215; Jan. 27; v. 270; p. 616.
Gelarie, Saul, & Company, New York, N. Y. Fabric gloves and knitted underwear for men, women, and children. No. 137,234; Nov. 23; v. 280; p. 793.
Gem Ear Phone Co., The, New York, N. Y. Ear-phones. No. 137,235; Nov. 23; v. 280; p. 793.
Gem Hammock & Fly Net Company, The, Milwaukee, Wis. Polish for furniture, automobiles, &c. No. 137,246; Dec. 21; v. 281; p. 564.
Gem Safety Razor Corporation, Brooklyn, N. Y. Shaving-brushes. No. 134,365; Aug. 31; v. 277; p. 972.
Gemco Manufacturing Company, Milwaukee, Wis. Automobile and motor-cycle accessories. No. 133,416; July 27; v. 276; p. 768.
Geminden, Frank P., Kansas City, Mo. Preparation for the prevention and treatment of influenza. No. 138,454; Dec. 28; v. 281; p. 782.
Gemmer Manufacturing Company, Detroit, Mich. Steering-gears for motor vehicles. No. 135,179; Sept. 21; v. 278; p. 539.
General American Tank Car Corporation, Chicago, Ill. Tank-cars. No. 132,948; July 6; v. 276; p. 201.
General American Tank Car Corporation, Chicago, Ill. Tank-cars. No. 130,006; Oct. 26; v. 279; p. 718.
General Candle Manufacturing Company, New York, N. Y. Candles. No. 137,610; Nov. 30; v. 280; p. 997.
General Chemical Company, New York, N. Y. Insecticide. No. 132,383; June 22; v. 275; p. 818.
General Coffee & Tea Co., Baltimore, Md. Canned vegetables. No. 131,309; May 11; v. 274; p. 400.
General Electric Company, Schenectady, N. Y. Electric incandescent lamps. No. 132,949; July 6; v. 276; p. 201.
General Electric Company Limited, The, London, England. Electric carbons. No. 134,656; Sept. 14; v. 278; p. 355.
General Export Trading Co., Boston, Mass. Shoe-blacking. No. 137,236; Nov. 23; v. 280; p. 793.
General Gas Light Co., Kalamazoo, Mich. Gas-stoves. No. 136, 809; Nov. 9; v. 280; p. 379.
General Illuminating Co., New York, N. Y. Electrical flash-lights. No. 130,728; May 4; v. 274; p. 185.
General Insulating & Manufacturing Company, St. Louis, Mo., and Alexandria, Ind. Construction material. No. 131,116; May 4; v. 274; p. 196.
General Manufacturing Co., Sioux City, Iowa. Fountain-pens. No. 128,386; Jan. 6; v. 270; p. 180.
General Manufacturing Corporation, Milwaukee, Wis. Phonographs. No. 136,007; Oct. 26; v. 279; p. 719.
General Motors Corporation, Detroit, Mich. Electricity-generating units. No. 128,710; Jan. 13; v. 270 p. 338.
General Motors Corporation, New York, N. Y., and Harrison, N. J. Machinery and tools and parts. No. 128,981; Jan. 20; v. 270; p. 473.
General Motors Export Company, New York, N. Y. Printed monthly publication. No. 133,971; Aug. 10; v. 277; p. 387.
General Necessities Corporation, Detroit, Mich. Artificial ice. No. 134,366; Aug. 31; v. 277; p. 972.
General Ordnance Company. (See National Tractor Company, assignor.)
General Ordnance Company, Derby, Conn. Tractors and parts thereof. No. 128,387; Jan. 6; v. 270; p. 180.
General Paper and Cordage Company, Pittsburgh, Pa. Wrapping-paper. No. 133,972; Aug. 10; v. 277; p. 387.
General Railway Signal Company, Rochester, N. Y. Electrically-operated clothes-washing machines and wringers. No. 135,447; Oct. 12; v. 279; p. 343.
General Rubber Goods Company, The, Cleveland, Ohio. Manufactured rubber merchandise. No. 134,954; Sept. 21; v. 278; p. 531.
General Top Company, The, Cleveland, Ohio. Permanent tops for vehicles. No. 131,117; May 4; v. 274; p. 196.
General Top Company, The, Cleveland, Ohio. Vehicle-top. No. 132,687; June 29; v. 275; p. 1015.
General Woodwork Co. Inc., The, Cincinnati, Ohio. Closed cabs for motor-vehicles. No. 136,431; Nov. 2; v. 280; p. 181.
Geneva Cutlery Corporation, Geneva, N. Y. Razors. No. 128,388; Jan. 6; v. 270; p. 180.
Gensonite Welding Electrode Co., Philadelphia, Pa. Flux or covered electrodes. No. 131,903; May 25; v. 274; p. 836.
Gentile, Oronzio, West Hoboken, N. J. Shoes of leather, rubber, fabric, and combination of the same. No. 130,302; Apr. 20; v. 273; p. 620.
Gentile, Oronzio, West Hoboken, N. J. Leather shoes. No. 133,670; Aug. 3; v. 277; p. 172.
Genuine Haarlem Oil Mfg. Co., New York, N. Y. Haarlem oil for kidney, liver, bladder, &c., troubles. No. 138,184; Dec. 14; v. 281; p. 404.
George Borgfeldt & Company, New York, N. Y. Dolls and table-favors. No. 130,465; Apr. 27; v. 273; p. 801.
George Borgfeldt & Co., New York, N. Y. Toilet powder. No. 131,417; May 18; v. 274; p. 601.
George, Maude S., St. Louis, Mo. Sanitary baby-pants. No. 132,147; June 15; v. 275; p. 617.
George, Maude S., St. Louis, Mo. Sanitary goods for hospitals and home use. No. 133,131; July 13; v. 276; p. 402.
George, P. D., Company, St. Louis, Mo. Varnish. No. 136,432; Nov. 2; v. 280; p. 181.
Georgis, George T., New York, N. Y. Soap. No. 133,671; Aug. 3; v. 277; p. 172.
Georgopulo, G. A., & Co., New York, N. Y. Cotton sheetings. No. 129,724; Mar. 9; v. 272; p. 363.
Gerber, Chas. A., New York, N. Y. Ladies' hats. No. 137,611; Nov. 30; v. 280; p. 997.
Gerhold, Charles M., Philadelphia, Pa. Insecticides, disinfectants, and deodorizers. No. 128,711; Jan. 13; v. 270; p. 339.
Gerlach, A. F., Mfg. Co., Milwaukee, Wis. Aprons. No. 137,612; Nov. 30; v. 280; p. 997.
Gernert, Earle, Billings, Mont. Canned vegetables. No. 130,729; May 4; v. 274; p. 185.
Gerofsky Brothers, Inc., New York, N. Y. Rags or clippings, shredded waste, &c. No. 138,005; Dec. 14; v. 281; p. 397.
Gerstendorfer Bros., New York, N. Y. Paints and painters' materials and a furniture-polish. No. 134,657; Sept. 14; v. 278; p. 355.
Gervig, Philip, Alton, Ill. Vehicle-awning, Detachable. No. 135,679; Oct. 19; v. 279; p. 528.
Gesell, Frank A., Los Angeles, Calif. Bank-deposit account-books. No. 130,730; May 4; v. 274; p. 185.
Gets 'Em Co., Tifton, Ga. Liquid insecticide. No. 132,384; June 22; v. 275; p. 818.
Gets Manufacturing Company, Andrews, Ind. Spark-plugs. No. 131,469; May 18; v. 274; p. 603.
Getz Bros. & Co., San Francisco, Calif. Canned salmon and oysters. No. 132,385; June 22; v. 275; p. 818.
Ghiglino, Cesar, New York, N. Y. Non-alcoholic, maltless, fruit-flavored beverage, and flavorings and syrup. No. 136,008; Oct. 26; v. 279; p. 719.
Ghosh, Satish C., Chicago, Ill. Incense. No. 134,436; Aug. 31; v. 277; p. 974.
Giambalvo, Giuseppe, Brooklyn, N. Y. Hypodermic solution for pulmonary tuberculosis. No. 129,725; Mar. 9; v. 272; p. 363.
Giavi, Francis N., New York, N. Y. Olive-oil. No. 130,731; May 4; v. 274; p. 185.
Gibbs Preserving Co., Baltimore, Md. Canned vegetables. No. 130,501; Apr. 27; v. 273; p. 802.
Gibbs Preserving Co., Baltimore, Md Pure fruit jams. No. 130,732; May 4; v. 274; p. 185.
Gibford-Weiffenbach Company, The, Adrian, Mich. Razor-strops. No. 132,387; June 22; v. 275; p. 818.
Gibson, A. C., Company, Inc., Buffalo, N. Y. Rubber stamps and stencils. No. 130,303; Apr. 20; v. 273; p. 620.
Gibson, Geo. R., Co., New York, N. Y. Toothbrushes. No. 135,448; Oct. 12; v. 279; p. 343.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Gibson, H. B., Co., Inc., New York, N. Y. Vessels for heating beverages. No. 128,712; Jan. 13; v. 270; p. 389.
Gibson, Joseph E., San Diego, Calif. Photograph-mountings. No. 134,955; Sept. 21; v. 278; p. 531.
Gidding, L. & Co., New York, N. Y. Middy-blouses. No. 135,880; Oct. 19; v. 279; p. 528.
Giering Bottling Company, The, Youngstown, Ohio. Cherry phosphate, birch-beer, orange-soda, &c. No. 131,810; May 11; v. 274; p. 400.
Giessel, Henry, Co., Chicago, Ill. Dish-washing machines. No. 130,304; Apr. 20; v. 273; p. 620.
Giglio, Angelo, New York, N. Y. Powder-puffs. No. 132,950; July 6; v. 276; p. 201.
Gilbert, A. C., Company, New Haven, Conn. Games and toys. No. 133,132; July 13; v. 276; p. 402.
Gilbert, A. C., Company, The, New Haven, Conn. Electrical apparatus. No. 137,237; Nov. 23; v. 280; p. 793.
Gilbert, C. A., & Co., Cranston, R. I. Salve for internal and external inflammation. No. 129,286; Feb. 10; v. 271; p. 356.
Gilbert, Frederick G., New Haven, Conn. Cigars, cigarettes, and tobacco. No. 130,065; Apr. 6; v. 273; p. 180.
Gilbert, John O., Jackson, Mich. Candy. No. 131,118; May 4; v. 274; p. 196.
Gilbert, John O., Jackson, Mich. Chocolate candy. No. 131,238; June 1; v. 275; p. 199.
Gilbert Paper Company, Menasha, Wis. Writing-paper. Nos. 129,726–7; Mar. 9; v. 272; p. 363.
Gilbert Paper Company, Menasha, Wis. Writing-paper. No. 130,305; Apr. 20; v. 273; p. 620.
Gilbert Paper Company, Menasha, Wis. Writing-paper. No. 131,119; May 4; v. 274; p. 196.
Gilbert Paper Company, Menasha, Wis. Bond-paper. No. 131,120; May 4; v. 274; p. 196.
Gilbert Paper Company, Menasha, Wis. Writing-paper. No. 131,121; May 4; v. 274; p. 197.
Gilbert Paper Company, Menasha, Wis. Bond-paper for writing and printing. No. 131,758; May 25; v. 274; p. 831.
Gilbert Paper Company, Menasha, Wis. Writing-paper. No. 132,148; June 15; v. 275; p. 617.
Gilbert Paper Company, Menasha, Wis. Bond-paper. No. 136,433; Nov. 2; v. 280; p. 181.
Gilbert Paper Company, Menasha, Wis. Writing-paper. No. 136,810; Nov. 9; v. 280; p. 379.
Gilbert, Willis H., Chicago, Ill. Wooden poles for telegraph, telephone, traction, and power lines. No. 132,386; June 22; v. 275; p. 818.
Gilcrease, Leonard L., Reno, Nev. Machinery and tools and parts thereof. No. 133,133; July 13; v. 276; p. 402.
Gilinsky, S. E., Omaha, Nebr. Fresh apples. Nos. 136,811–12; Nov. 9; v. 280; p. 379.
Gill Brothers Company, Steubenville, Ohio. Lamp-chimneys, lantern-globes, &c. No. 132,149; June 15; v. 275; p. 617.
Gill Brothers Company, Steubenville, Ohio. Glassware. No. 136,813; Nov. 9; v. 280; p. 379.
Gill Manufacturing Company, Chicago, Ill. Piston-rings. No. 137,613; Nov. 30; v. 280; p. 997.
Gill, Robert I., Platteville, Wis. Sanitary aerating and protecting device. No. 131,983; June 8; v. 275; p. 414.
Gillett, William T., Tillamook, Oreg. Soap. No. 136,814; Nov. 9; v. 280; p. 379.
Gillette Safety Razor Company, Boston, Mass. Safety-razors. Nos. 132,150–2; June 15; v. 275; p. 617.
Gillette Safety Razor Company, Boston, Mass. Safety-razors and safety-razor blades. No. 134,317; Aug. 24; v. 277; p. 782.
Gilman, A., & Son, New York, N. Y. Infants' and children's garments. No. 128,889; Jan. 6; v. 270; p. 180.
Gilman, A. S., Printing Company, The, Cleveland, Ohio. Stationery. No. 129,728; Mar. 9; v. 272; p. 363.
Gilman, A. S., Printing Company, The, Cleveland, Ohio. Blank forms. No. 133,973; Aug. 10; v. 277; p. 387.
Gilman, Frank, Birmingham, England. Pneumatic machine-tools for cleaning boiler-plates, &c. No. 130,306; Apr. 20; v. 273; p. 620.
Gilman, Theodore, Jr., New York, N. Y. Salicylic ointment. No. 128,982; Jan. 20; v. 270; p. 473.
Gilson, Bert D., Chicago, Ill. Automobile circulating-pumps. No. 128,890; Jan. 6; v. 270; p. 180.
Gimbel Brothers, Incorporated, Philadelphia, Pa. Women's and misses' sporting suits and coats for outside wear. No. 131,759; May 25; v. 274; p. 831.
Gimbel Brothers Incorporated, Philadelphia, Pa. Synthetic pearls and beads and necklaces of same. No. 132,388; June 22; v. 275; p. 818.
Gimbel Brothers, New York, N. Y. Talking-machines, violins, harps, &c. No. 128,988; Jan. 20; v. 270; p. 473.
Girl Scouts, New York, N. Y. Coats, skirts, blouses, &c. No. 137,614; Nov. 30; v. 280; p. 998.
Giroux, Pierre E., & Co., Johnstown, N. Y. Slippers. No. 133,780; Aug. 3; v. 277; p. 176.
Gitterman, Henry, & Co., New York, N. Y. Imitation leather. No. 137,615; Nov. 30; v. 280; p. 998.
Given, John M., Inc., Pittsburgh, Pa., Chicago, Ill., and New York, N. Y. Children's hosiery. No. 130,307; Apr. 20; v. 273; p. 620.
Given, John M., Inc., Pittsburgh, Pa., and New York, N. Y. Hosiery. No. 130,733; May 4; v. 274; p. 185.
Given, John M., Inc., New York, N. Y., Chicago, Ill., and Pittsburgh, Pa. Children's hosiery. No. 131,122; May 4; v. 274; p. 197.
Given, John M., Inc., Pittsburgh, Pa.; Chicago, Ill., and New York, N. Y. Women's and children's hosiery. No. 136,009; Oct. 26; v. 279; p. 719.
Glacier Products Company, Kalispell, Mont. Malt and corn syrup. No. 130,734; May 4; v. 274; p. 185.
Gladney Milling Company, Sherman, Tex. Wheat-flour. No. 131,123; May 4; v. 274; p. 197.
Gladney Milling Company, Sherman, Tex. Wheat-flour. No. 134,956; Sept. 21; v. 278; p. 531.
Gladular Research Laboratories, Inc., The, Cranford, N. J. Medicine. No. 136,434; Nov. 2; v. 280; p. 181.
Glantz, Charles, Arkville, N. Y. Camp, folding, and invalid chairs, &c. No. 128,984; Jan. 20; v. 270; p. 473.
Glass, Henry, & Co., New York, N. Y. Voiles and sateen in the piece. Nos. 133,668–9; Aug. 3; v. 277; p. 172.
Glauber, M., & Company, New York, N. Y. Ball-valves for flushing-tanks. No. 137,238; Nov. 23; v. 280; p. 793.
Glazer, Louis, Dallas, Tex. Bottled soda-water of different flavors. No. 135,681; Oct. 19; v. 279; p. 528.
Gleason, Dora P., Cincinnati, Ohio. Device for waving the hair upon the human head. No. 136,435; Nov. 2; v. 280; p. 181.
Gleason's, Edwin P., Son, Inc., New York, N. Y. Mercerized cotton piece goods. No. 131,939; June 1; v. 275; p. 199.
Gleason's, Edwin P., Son, Inc., New York, N. Y. Cotton piece goods. No. 134,861; Sept. 14; v. 278; p. 863.
Gleason's, Edwin P., Son, Inc., New York, N. Y. Cotton piece goods. No. 137,239; Nov. 23; v. 280; p. 793.
Gleason's, Edwin P., Son, Inc., New York, N. Y. Cotton piece goods. No. 138,247; Dec. 21; v. 281; p. 564.
Glemby, S., Inc., New York, N. Y. Hair-nets. Nos. 133,072–4; Aug. 3; v. 277; p. 172.
Glencairn Mfg. Co., Pawtucket, R. I. Shoe, corset, underwear, and blouse lacings, galloons, and braids. No. 130,502; Apr. 27; v. 273; p. 802.
Glidden Company, The, Cleveland, Ohio. Paints and painters' materials. Nos. 134,658–9; Sept. 14; v. 278; pp. 355–6.
Glidden, Joseph F., Lakewood, Ohio. Basic oil for paint and varnish building. No. 133,974; Aug. 10; v. 277; p. 387.
Glidden Nut Butter Company, The, Chicago, Ill. Oleomargarin. Nos. 134,239–40; Aug. 24; v. 277; p. 778.
Globe Canning Company, Eastport, Me. Canned sardines. Nos. 124,241–3; Aug. 24; v. 277; p. 778.
Globe Canning Company, Eastport, Me. Canned sardines. No. 136,436; Nov. 2; v. 280; p. 181.
Globe Canning Co., Eastport and North Lubec, Me. Sardines. No. 132,389; June 22; v. 275; p.818.
Globe Co., The, Philadelphia, Pa. Music-rolls for automatically-played musical instruments. No. 136,010; Oct. 26; v. 279; p. 719.
Globe Ear-Phone Company, Boston, Mass. Auricular seismographs. No. 131,311; May 11; v. 274; p. 400.
Globe Grocery Stores, Inc., Brooklyn, N. Y. Foods and ingredients of food. No. 128,985; Jan. 20; v. 270; p. 473.
Globe Grocery Stores, Inc., New York, N. Y. Root-beer extract, orange, wild-cherry, and grape phosphates. No. 132,153; June 15; v. 275; p. 617.
Globe Grocery Stores, Inc., New York, N. Y. Machine-oil. No. 132,154; June 15; v. 275; p. 617.
Globe Printing Company, St. Louis, Mo. Title for Sunday newspaper pictorial section. No. 133,417; July 27; v. 276; p. 769.
Gloeckler, Louis H., New York, N. Y. Toothache remedies. No. 134,957; Sept. 21; v. 278; p. 531.
Gloversville Welt Co., Gloversville, N. Y. Babies' washable kid-leather shoes. No. 132,155; June 15; v. 275; p. 617.
Goddard, Charles C., Tulsa, Okla. Salve having certain medicinal uses. No. 137,240; Nov. 23; v. 280; p. 793.
Goddard, J. W., & Sons, Incorporated, New York, N. Y. Cotton linings. No. 131,760; May 25; v. 274; p. 831.
Goddard, J. W., & Sons, Inc., New York, N. Y. Cotton piece goods. No. 135,682; Oct. 19; v. 279; p. 528.
Goddard, Willard F., Moberly, Mo. Puncture-curing patches. No. 136,437; Nov. 2; v. 280; p. 181.
Goerz Flour Mills Co., Newton, Kans. Wheat-flour. No. 129,160; Jan. 27; v. 270; p. 614.
Goetze Gasket & Packing Company, New Brunswick, N. J. Asbestos composition packings. No. 133,887; Aug. 3; v. 277; p. 179.
Goetze Gasket & Packing Company, New Brunswick, N. J. Asbestos composition packings. No. 136,438; Nov. 2; v. 280; p. 182.
Goheen Corporation, The, Wilmington, Del., and Warren, Ohio. Paint for iron and steel. Nos. 133,675–6; Aug. 3; v. 277; p. 173.
Goheen Corporation, The, Wilmington, Del., and Warren, Ohio. Paint for galvanized iron. No. 133,677; Aug. 3; v. 277; p. 173.
Goheen Corporation, The, Wilmington, Del., and Warren, Ohio. Red-lead paint. No. 133,678; Aug. 3; v. 277; p. 173.
Goheen Corporation, The, Wilmington, Del., and Warren, Ohio. Paint for concrete, cement, brick, tile, &c. No. 133,679; Aug. 3; v. 277; p. 173.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Goheen Corporation, The Wilmington, Del., and Warren, Ohio. Fireproof paint for wood. No. 133,680; Aug. 3; v. 277; p. 173.
Goheen Manufacturing Company, Warren, Ohio. Rust and heat resisting paints for coating metal, waterproof paints, &c. No. 129,460; Feb. 24; v. 271; p. 678.
Gold Fish Ginger Ale Company, Pocatello, Idaho. Ginger-ale. No. 135,249; Sept. 28; v. 278; p. 702.
Gold Medal Cleaner Co., Buffalo, N. Y. Waterproof dressing for shoes. No. 135,449; Oct. 12; v. 279; p. 343.
Gold Star Mayonnaise Co., Bayonne, N. J. Mayonnaise dressing. No. 138,007; Dec. 14; v. 281; p. 397.
Goldberg, Benjamin M., Brooklyn, N. Y. Plastic composition for the manufacture of models for artificial teeth. No. 135,450; Oct. 12; v. 279; p. 343.
Goldberg, H., New York, N. Y. Ladies' coats, cloaks, and suits. No. 138,248; Dec. 21; v. 281; p. 564.
Golden Seal Laboratories, Inc., Parkersburg, W. Va. Effervescent salt combined with fruit derivatives. No. 128,713; Jan. 13; v. 270; p. 339.
Golden Pheasant, The, San Francisco, Calif. Candy. No. 137,027; Nov. 16; v. 280; p. 583.
Golden State Canneries, Los Angeles, Calif. Canned fruits. No. 131,904; May 25; v. 274; p. 836.
Goldenwest Citrus Assn., Tustin, Calif. Citrus fruits. No. 134,367; Aug. 31; v. 277; p. 972.
Goldfield-Rosenfeld Co., Inc., The, New York, N. Y. Coats and suits for women and children. No. 136,011; Oct. 26; v. 279; p. 719.
Goldman, John, Philadelphia, Pa. Coloring for the hair. No. 132,390; June 22; v. 275; p. 818.
Goldman, M., St. Louis, Mo. Phonographs. No. 138,006; Dec. 14; v. 281; p. 397.
Goldman, Sigmund L., Chicago, Ill. Ginger-ale, kola, &c. No. 130,180; Apr. 13; v. 273; p. 402.
Goldman, Wm. P., & Bros. Inc., New York, N. Y. Men's and youths' suits and overcoats. No. 131,124; May 4; v. 274; p. 197.
Goldsmith Brothers Smelting and Refining Company, Chicago, Ill. Pearls. No. 133,975; Aug. 10; v. 277; p. 387.
Goldsmith, Charles A., New York, N. Y. Dolls. No. 128,391; Jan. 6; v. 270; p. 180.
Goldsmith, Stern & Co. (See Stern Brothers & Company, assignors.)
Goldsmith, Stern & Co., New York, N. Y. Watch-chains. No. 129,729; Mar. 9; v. 272; p. 363.
Goldstein, Julius M., Oneida, N. Y. Cigars. No. 136,012; Oct. 26; v. 279; p. 719.
Goldstein Millinery Company, Chicago, Ill. Children's hats. No. 129,461; Feb. 24; v. 271; p. 678.
Goldstein, Samuel, New York, N. Y. Window-locks. No. 136,721; Nov. 2; v. 280; p. 191.
Gonzales Padin Co., San Juan, Porto Rico. Men's and boys' outer garments. No. 129,159; Jan. 27; v. 270; p. 614.
Good Housekeeping Electric Shoppe, Minneapolis, Minn. Electric vacuum-cleaners, sewing-machines, and dish-washers. No. 136,439; Nov. 2; v. 280; p. 182.
Good Luck Food Co. Inc., Rochester, N. Y. Pie-fillings, puddings, and jellies. No. 135,451; Oct. 12; v. 279; p. 343.
Good Luck Polish Co., Louisville, Ky. Shoe-polishes. No. 136,440; Nov. 2; v. 280; p. 182.
Goodin Reid & Co., New York, N. Y. Burlaps, ducks, drills, &c. No. 132,391; June 22; v. 275; p. 818.
Goodlass Wall & Company Limited, Liverpool, England. Paints and varnishes. No. 129,730; Mar. 9; v. 272; p. 363.
Goodman & Beer Company, Inc., New Orleans, La. Eggs. No. 128,714; Jan. 13; v. 270; p. 339.
Goodman & Co., Brooklyn, N. Y. Youths' and boys' ready-made suits. No. 137,241; Nov. 23; v. 280; p. 793.
Goodman Manufacturing Company, Chicago, Ill. Electric locomotives and mining-machines. No. 137,001; Nov. 9; v. 280; p. 387.
Goodman & Wiedman, New York, N. Y. Boys' suits, trousers, &c. No. 129,462; Feb. 24; v. 271; p. 678.
Goodrich, A., Manufacturer, Inc., Chicago, Ill. Grinding-wheels, oil-stones, and razor-hones. No. 135,683; Oct. 19; v. 279; p. 528.
Goodrich, B. F., Company, The, New York, N. Y. Printing-press inking-rollers. No. 133,249; July 20; v. 276; p. 590.
Goodrich, B. F., Company, The, New York, N. Y. Battery-jars made of rubber. No. 133,681; Aug. 3; v. 277; p. 173.
Goodrich, B. F., Company, The, New York, N. Y. Battery-jars made of rubber. Nos. 133,976–7; Aug. 10; v. 277; p. 387.
Goodrich, B. F., Company, The, New York, N. Y. Billiard-cushions. No. 134,660; Sept. 14; v. 278; p. 356.
Goodrich, B. F., Company, The, New York, N. Y. Elevator-belts made of rubber reinforced with fabric. No. 134,661; Sept. 14; v. 278; p. 356.
Goodrich, B. F., Company, The, New York, N. Y. Hose made wholly or partly of rubber. No. 136,441; Nov. 2; v. 280; p. 182.
Goodrich, B. F., Company, The, New York, N. Y. Machinery packing. No. 136,442; Nov. 2; v. 280; p. 182.
Goodrich, B. F., Company, The, New York, N. Y. Belting and diaphragms for paper-mill vats. No. 136,815; Nov. 9; v. 280; p. 377.
Goodrich, B. F., Company, The, New York, N. Y. Sheet-packing. No. 138,249; Dec. 21; v. 281; p. 564.
Goodrich, B. F., Company, The, New York, N. Y. Hose and sheet-packing. No. 138,250; Dec. 21; v. 281; p. 564.
Goodrich, B. F., Company, The, New York, N. Y. Elevator-belts. No. 138,251; Dec. 21; v. 281; p. 564.
Goodrich Drug Company, Omaha, Nebr. Talcum and face powder, massage-cream, toilet water, &c. No. 131,761; May 25; v. 274; p. 831.
Goodrich, F. R. and R. M., Portland, Conn. Baled tobacco. No. 137,242; Nov. 23; v. 280; p. 793.
Goodwear Hosiery Co., Kenosha, Wis. Hosiery. No. 130,308; Apr. 20; v. 273; p. 620.
Goodwirth, Emil, St. Louis, Mo. Writing and engrossing ink. No. 134,662; Sept. 14; v. 278; p. 356.
Goodyear, Chester M., Co., The, Greenville, S. C. Cotton-mill waste. No. 137,243; Nov. 23; v. 280; p. 793.
Goodyear Tire & Rubber Company, The, Akron, Ohio. House organs issued weekly. No. 129,731; Mar. 9; v. 272; p. 363.
Goodyear Tire & Rubber Company, Akron, Ohio. Hose made wholly or in part of rubber. No. 135,180; Sept. 21; v. 278; p. 539.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Rubber and rubber fabric vehicle-tires and treads. No. 135,370; Sept. 28; v. 278; p. 707.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Motor-driven balloons. Nos. 137,244–5; Nov. 23; v. 280; p. 793.
Gooken, James B., Los Angeles, Calif. Rectal suppositories. No. 134,663; Sept. 14; v. 278; p. 356.
Goorin, Shapira & Company, Pittsburgh, Pa. Men's and children's hats and caps. No. 130,503; Apr. 27; v. 273; p. 802.
Gorden, Allen G., Blytheville, Ark. Dry-cleaner for clothes. No. 132,156; June 15; v. 275; p. 617.
Gordon Bean and Pea Harvester Co., The, Elizabeth City, N. C. Bean and pea harvester. No. 136,013; Oct. 26; v. 279; p. 719.
Gordon & Dilworth, Inc., New York, N. Y. Preserved and canned fruits, jams, catsup, &c. Nos. 131,984–5; June 8; v. 275; p. 414.
Gordon & Dilworth, Inc., New York, N. Y. Preserved fruits, jellies, jams, &c. No. 133,978; Aug. 10; v. 277; p. 387.
Gordon, Sewall & Co., Houston, Tex. Coffee. No. 131,312; May 11; v. 274; p. 400.
Gore, Robert J. K., Detroit, Mich. Medicine for tuberculosis. No. 132,392; June 22; v. 275; p. 818.
Gorton Chocolate Co., Inc., The, Corning, N. Y. Chocolate candies. No. 133,418; July 27; v. 276; p. 768.
Gorton Chocolate Co., Inc., The, Corning, N. Y. Candy. No. 136,816; Nov. 9; v. 280; p. 379.
Gosselin Trading Corporation, New York, N. Y. Ink in tablet form. No. 131,762; May 25; v. 274; p. 831.
Gosselin Trading Corporation, New York, N. Y. Cigarettes, cigars, pipe and chewing tobacco. No. 133,682; Aug. 3; v. 277; p. 173.
Gosselin Trading Corporation, New York, N. Y. Ink in tablet form. No. 133,979; Aug. 10; v. 277; p. 387.
Gottlieb, Joseph, New York, N. Y. Watches. No. 136,817; Nov. 9; v. 280; p. 379.
Gottmann, Theodore, & Sons, Chicago, Ill. Chocolate candy. No. 135,181; Sept. 21; v. 278; p. 539.
Gottmann, Theodore, & Sons, Chicago, Ill. Marshmallows. No. 137,788; Dec. 7; v. 281; p. 196.
Gottmann, Theodore, & Sons, Chicago, Ill. Chocolate candy. No. 138,543; Dec. 28; v. 281; p. 786.
Gottschalk, L. A., San Francisco, Calif. Print. No. 129,782; Mar. 9; v. 272; p. 364.
Gould, Wells & Blackburn Co., Madison, Wis. Foods. No. 133,980; Aug. 10; v. 277; p. 387.
Gould, Wilbert E., Denver, Colo. Non-alcoholic non-cereal maltless beverage. No. 129,161; Jan. 27; v. 270; p. 614.
Goulds Fruit & Vegetable Growers Assn., Goulds, Fla. Fresh citrus fruits and vegetables. No. 137,616; Nov. 30; v. 280; p. 998.
Goulds Manufacturing Co., The, Seneca Falls, N. Y. Power-driven water-supply pumps. No. 138,008; Dec. 14; v. 281; p. 397.
Gourland Typewriter Corporation, New York, N. Y. Typewriting-machines. No. 136,014; Oct. 26; v. 279; p. 719.
Gouvea, A. S., & Co., New York, N. Y. Canned sardines. No. 128,392; Jan. 6; v. 270; p. 180.
Grace, W. R., & Co., New York, N. Y. Boots and shoes. No. 127,715; Jan. 13; v. 270; p. 339.
Grace, W. R., & Co., New York, N. Y. Leather. No. 128,393; Jan. 6; v. 270; p. 180.
Grace, W. R., & Co., New York, N. Y., and San Francisco, Calif. Dyes. No. 128,716; Jan. 13; v. 270; p. 339.
Grace, W. R., & Co., New York, N. Y., and San Francisco, Calif. Dyes. No. 129,463; Feb. 24; v. 271; p. 678.
Grace, W. R., & Co., New York, N. Y., and San Francisco, Calif. Anilins and dyestuffs. No. 132,393; June 22; v. 275; p. 818.
Grace, W. R., & Co., New York, N. Y., and San Francisco, Calif. Cotton piece goods. No. 133,683; Aug. 3; v. 277; p. 173.
Grace, W. R., & Co., New York, N. Y., and San Francisco, Calif. Canned fruit. No. 133,981; Aug. 10; v. 277; p. 387.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Grace, W. R. & Co., New York, N. Y., San Francisco, Calif. Tea. No. 134,958; Sept. 21; v. 278; p. 581.
Grace, W. R., & Co., New York, N. Y., and San Francisco, Calif. Portland cement. No. 135,452; Oct. 12; v. 279; p. 343.
Graceline Manufacturing Company, Seattle, Wash. Ladies' silk underwear. No. 130,735; May 4; v. 274; p. 185.
Graf, John, Co., Milwaukee, Wis. Non-alcoholic non-intoxicating soft drink. No. 128,986; Jan. 20; v. 270; p. 473.
Graff, George B., Company, Boston, Mass. Paper-clips, index-tabs, file-signals, &c. No. 136,443; Nov. 2; v. 280; p. 182.
Graff, George B., Company, Boston, Mass. File-signals and index-tabs. No. 136,818; Nov. 9; v. 280; p. 379.
Grafton and Knight Manufacturing Company, The, Worcester, Mass. Leather belting. No. 133,687; Aug. 3; v. 277; p. 173.
Graham Brown Shoe Company, Dallas, Tex. Leather shoes. No. 138,185; Dec. 14; v. 281; p. 404.
Graham-Bumgarner Company, Parkersburg, W. Va. Shoes. Nos. 138,455–6; Dec. 28; v. 281; p. 782.
Graham, George W., New York, N. Y. Stove-polish. No. 136,444; Nov. 2; v. 280; p. 182.
Graham, George W., New York, N. Y. Chemical carbon-removing compound. No. 138,009; Dec. 14; v. 281; p. 397.
Graham, James, Detroit, Mich. Cereal, a food composed of various grains. No. 136,015; Oct. 26; v. 276; p. 719.
Graham, Murdock M., Boston, Mass. Dolls. No. 134,748; Sept. 14; v. 278; p. 358.
Graham, Percy, Chicago, Ill. Skin-astringent. No. 132,688; June 29; v. 275; p. 1015.
Grain Soaps Corporation, Dover, Del., and Jersey City, N. J. Soaps and soap powders. No. 133,982; Aug. 10; v. 277; p. 388.
Grand Rapids School Equipment Co., Grand Rapids, Mich. Phonographs. No. 134,664; Sept. 14; v. 278; p. 356.
Grand Rapids Show Case Company, Grand Rapids, Mich. Cloth and ribbon combination measuring and price-computing machines. No. 137,789; Dec. 7; v. 281; p. 196.
Grand River Canning Company, Markesan, Wis. Canned vegetables. No. 128,987; Jan. 20; v. 270; p. 473.
Grand Union Tea Co., Brooklyn, N. Y. Foods and ingredients of foods. No. 130,504; Apr. 27; v. 273; p. 802.
Grand Union Tea Co., Brooklyn, N. Y. Tea. No. 130,736; May 4; v. 274; p. 185.
Grand Union Tea Co., Brooklyn, N. Y. Spaghetti and macaroni. No. 131,126; May 4; v. 274; p. 197.
Grand Union Tea Co., Brooklyn, N. Y. Stove-polish. No. 131,127; May 4; v. 274; p. 197.
Grand Union Tea Co., Brooklyn, N. Y. Toilet and laundry soap. No. 131,128; May 4; v. 274; p. 197.
Grand Union Tea Co., Brooklyn, N. Y. Talcum powder. No. 131,313; May 11; v. 274; p. 400.
Grand Union Tea Co., Brooklyn, N. Y. Petroleum jelly. No. 132,689; June 29; v. 275; p. 1015.
Grand Union Tea Co., Brooklyn, N. Y. Candy. No. 132,690; June 29; v. 275; p. 1015.
Grand Union Tea Co., Brooklyn, N. Y. Dentifrice. No. 133,684; Aug. 3; v. 277; p. 173.
Grand Union Tea Co., Brooklyn, N. Y. Laundry and toilet soaps, soap flakes, &c. No. 136,445; Nov. 2; v. 280; p. 182.
Grand Union Tea Co., Brooklyn, N. Y. Toilet preparations, soda, lump-starch, &c. No. 136,819; Nov. 9; v. 280; p. 379.
Granger & Company, Buffalo, N. Y. Mince-meat. No. 133,983; Aug. 10; v. 277; p. 388.
Granger, Fred L., Benton Harbor, Mich. Fruits—namely, Concord grapes in their natural state. No. 134,368; Aug. 31; v. 277; p. 972.
Granger Vacuum Rubber Heel Co., Cleveland, Ohio. Rubber heels. No. 129,464; Feb. 24; v. 271; p. 678.
Granitex Company, Inc., New York, N. Y. Preparation for hardening and waterproofing cement mixtures. No. 133,250; July 20; v. 276; p. 590.
Granolax Company, The, New York, N. Y. Laxative. No. 132,394; June 22; v. 275; p. 818.
Grant, Robert, New York, N. Y. Steel. No. 130,737; May 4; v. 274; p. 185.
Grant, W. T., Co., New York, N. Y. Hosiery. No. 132,951; July 6; v. 276; p. 201.
Grant, W. T., Co., New York, N. Y. Hosiery. No. 134,665; Sept. 14; v. 278; p. 356.
Grape Ola Products Corporation, New York, N. Y. Ginger-ale. No. 133,685; Aug. 3; v. 277; p. 173.
Grape Ola Products Corporation, New York, N. Y. Grape-juice. No. 133,686; Aug. 3; v. 277; p. 173.
Grape Ola Products Corporation, New York, N. Y. Flavoring material for making a non-alcoholic beverage and the beverage made therefrom. Nos. 134,504–6; Sept. 7; v. 278; p. 160.
Grape Ola Products Corporation, New York, N. Y. Flavoring material. No. 138,010; Dec. 14; v. 281; p. 397.
Graphite Products Limited, London, England. Paints, varnishes, &c. No. 131,763; May 25; v. 274; p. 831.
Grasselli Chemical Co., The, Cleveland, Ohio. Dyestuffs. No. 134,666; Sept. 14; v. 278; p. 356.
Graton & Knight Manufacturing Company, The, Worcester, Mass. Leather articles. No. 137,617; Nov. 30; v. 280; p. 998.
Graton & Knight Manufacturing Company, The, Worcester, Mass. Leather belting. No. 138,011; Dec. 14; v. 281; p. 397.
Graves Canning Co. Inc., Sheridan, Oreg. Canned fruits. No. 137,028; Nov. 16; v. 280; p. 583.
Graves, Willard E., New York, N. Y. Children's dresses. No. 134,667; Sept. 14; v. 278; p. 356.
Gray, Frank A., Kansas City, Mo. Powder to be used in making a face-cream. No. 131,471; May 18; v. 274; p. 603.
Gray, Franklin A., Kansas City, Mo. Preparation for the hair and scalp. No. 136,016; Oct. 26; v. 276; p. 719.
Gray, Judah P., Nampa and Emmett, Idaho. Fresh apples. No. 134,244; Aug. 24; v. 277; p. 778.
Gray Tractor Company, Inc., Minneapolis, Minn. Farm-tractors. No. 130,738; May 4; v. 274; p. 185.
Graylawn Farms Company, Waterbury, Vt. Insecticides, ointments, condition-powders, &c. No. 129,733; Mar. 9; v. 272; p. 364.
Graylawn Farms Company, Waterbury, Vt. Insecticides. No. 134,959; Sept. 21; v. 278; p. 581.
Grayson, J. H., Mfg. Co., Athens, Ohio. Gas-heaters and parts thereof. No. 133,134; July 13; v. 276; p. 402.
Grazi & Dabah, New York, N. Y. Chambrays, tickings, and sateens all in the piece goods. No. 137,246; Nov. 23; v. 280; p. 793.
Great Atlantic and Pacific Tea Company, The, Jersey City, N. J. Oleomargarin. No. 131,986; June 8; v. 275; p. 414.
Great Atlantic & Pacific Tea Company, The, Jersey City, N. J. Tea. No. 132,396; June 22; v. 275; p. 818.
Great Atlantic and Pacific Tea Company, The, Jersey City, N. J. Baking-powder. No. 132,397; June 22; v. 275; p. 818.
Great Atlantic and Pacific Tea Company, The, Jersey City, N. J. Baking-powder, soda, cream of tartar, ammonia, and liquid blue. No. 132,691; June 29; v. 275; p. 1015.
Great Atlantic and Pacific Tea Company, The, Jersey City, N. J. Coffee. No. 137,247; Nov. 23; v. 280; p. 794.
Great Eastern Fisheries Corporation, Rockland, Me. Preserved or prepared codfish. No. 128,894; Jan. 6; v. 270; p. 180.
Great Northern Toy Co. Inc., New York, N. Y. Toy hydro- and aero-planes. No. 135,960; Sept. 21; v. 278; p. 581.
Great Southern Sulphur Company, Inc., Orla, Tex. Sulfur. No. 136,017; Oct. 26; v. 279; p. 719.
Great Western Alfalfa Milling Company, The, Denver, Colo. Live-stock and poultry feeds. No. 128,895; Jan. 6; v. 270; p. 180.
Great Western Manufacturing Co., Laporte, Ind. Bicycles. No. 129,287; Feb. 10; v. 271; p. 356.
Great Western Manufacturing Co., Laporte, Ind. Bicycles. No. 131,987; June 8; v. 275; p. 414.
Great Western Milling Company, Los Angeles, Calif. Feed for stock. Nos. 138,012–3; Dec. 14; v. 281; p. 397.
Great Western Milling Company, Los Angeles, Calif. Food for stock. No. 138,457; Dec. 28; v. 281; p. 782.
Great Western Milling Company, Los Angeles, Calif. Feed for stock. No. 138,458; Dec. 28; v. 281; p. 782.
Great Western Milling Company, Los Angeles, Calif. Food for stock. No. 138,459; Dec. 28; v. 281; p. 782.
Great Western Products Co. Inc., New York, N. Y. Adhesives. Nos. 131,764–5; May 25; v. 274; p. 831.
Great Western Smelting & Refining Company, Chicago, Ill. Babbitt bearing metal. No. 130,505; Apr. 27; v. 273; p. 802.
Great Western Smelting & Refining Company, Chicago, Ill. Babbitt, bearing, and type metals. No. 134,167; Aug. 17; v. 277; p. 581.
Greb Company, Inc., The, Portland, Me., and Boston, Mass. Tools. No. 134,157; Aug. 17; v. 277; p. 581.
Grebe, A. H., & Co. Inc., Richmond Hill, N. Y. Wireless-telegraph apparatus. No. 137,248; Nov. 23; v. 280; p. 794.
Greek and Syrian Company, Inc., New York, N. Y. Olive-oil. No. 136,018; Oct. 26; v. 279; p. 719.
Green Mountain Packing Company, Portland, Me. Canned vegetables. No. 131,988; June 8; v. 275; p. 414.
Greenbaum, Jacob L., Toledo, Ohio. Physic for children. No. 134,668; Sept. 14; v. 278; p. 356.
Greenbaum, Jacob L., Toledo, Ohio. Medicines and pharmaceutical preparations. No. 136,019; Oct. 26; v. 279; p. 719.
Greenbaum, Weil & Michels, San Francisco, Calif. Men's and women's knit and textile coats and sweaters. No. 135,357; Sept. 28; v. 278; p. 706.
Greenberg, Harris, New York, N. Y. Patches for repairing rubber goods. No. 138,014; Dec. 14; v. 281; p. 397.
Greene, S. & M., Brooklyn, N. Y. Hair dressings and gloss, shampoo. No. 128,717; Jan. 13; v. 270; p. 339.
Greenfield's, E., Sons, New York and Brooklyn, N. Y. Chocolate and candies. No. 131,314; May 11; v. 274; p. 400.
Greenhalgh, George H., Harrison, N. J. Spark-plugs. No. 132,692; June 29; v. 275; p. 1015.
Greenhalgh, J. H., & Company, Chicago, Ill. Accounting-forms. No. 134,669; Sept. 14; v. 278; p. 356.

Digitized by Google

Greenlee, James A., Chicago, Ill. Reinforced paper for wrapping and packaging articles. No. 132,398; June 22; v. 275; p. 818.
Greenpoint-Southern Company, Inc., Long Island City, N. Y. Mattresses, pillows, bed and box springs. No. 133,251; July 20; v. 276; p. 590.
Greensburg Brewing Company, Greensburg, Pa. Malt beverage. No. 132,399; June 22; v. 275; p. 818.
Greenstein, Rudolph, New York, N. Y. Roofing-cement. No. 132,693; June 29; v. 275; p. 1015.
Greenstein, Rudolph, New York, N. Y. Concrete-hardener. No. 136,820; Nov. 9; v. 280; p. 379.
Greenstreet, Oliver, Baxter Springs, Kans. Soldering-flux. No. 129,465; Feb. 24; v. 271; p. 678.
Greenwald Brothers, Incorporated, Philadelphia, Pa. Convertible petticoats and bloomers. No. 136,020; Oct. 26; v. 279; p. 719.
Grewe, Alexander, New York, N. Y. Candy. No. 130,739; May 4; v. 274; p. 185.
Grewen Fabric Co., Inc., Johnstown, N. Y. Dress-skirts. No. 128,718; Jan. 13; v. 270; p. 339.
Grietens, George, New York, N. Y. Table-dressings. No. 137,249; Nov. 23; v. 280; p. 794.
Griffin Manufacturing Co., Inc., New York, N. Y. Shoe-polishes, &c. No. 135,250; Sept. 28; v. 278; p. 702.
Griffin Mfg. Co., The, Boston, Mass. Air-valves for automobile-tires, pneumatic cushions, &c. No. 131,315; May 11; v. 274; p. 400.
Griffin Mfg. Co. Inc., New York, N. Y. Shoe-polish. No. 133,688; Aug. 3; v. 277; p. 173.
Griffin, W. H., Company, Manchester, N. H. Men's, boys', and youths' leather shoes. No. 128,719; Jan. 13; v. 270; p. 339.
Griffith-Durney Co., San Francisco, Calif. Canned fruits, vegetables, and milk. No. 137,029; Nov. 16; v. 280; p. 583.
Griffith, Webster E., North Lawrence, N. Y. Condensed milk. No. 135,453; Oct. 12; v. 279; p. 343.
Grigg, Charles L., St. Louis, Mo. Beverages, non-alcoholic, non-cereal, maltless. No. 136,021; Oct. 26; v. 279; p. 719.
Griggs, Cooper & Company, St. Paul, Minn. Canned and preserved fruits, canned vegetables, &c. No. 131,989; June 8; v. 275; p. 414.
Griggs, Cooper & Co., St. Paul, Minn. Coffee. No. 137,250; Nov. 23; v. 280; p. 794.
Griggs-Paxton Shoe Co., Inc., Roanoke, Va. Boots and shoes. No. 130,506; Apr. 27; v. 273; p. 802.
Griggs-Paxton Shoe Co., Inc., Roanoke, Va. Boots and shoes of leather, leather and fabric, and rubber fabric. No. 133,689; Aug. 3; v. 277; p. 173.
Grimes-Perry Canning Company, Grimes, Iowa. Canned vegetables. No. 131,316; May 11; v. 274; p. 400.
Grimwood Bros., Evansville, Ind. Phonograph-cabinets. No. 134,671; Sept. 14; v. 278; p. 356.
Griswold Manufacturing Company, The, Erie, Pa. Aluminum and iron cooking utensils. No. 130,740; May 4; v. 274; p. 185.
Griswold Manufacturing Company, The, Erie, Pa. Food-choppers, combination meat and food cutters, fruit and lard presses, and tobacco-cutters. No. 133,135; July 13; v. 276; p. 402.
Grivas, John B., Chicago, Ill. Sauce, spaghetti, and creole-gumbo. No. 129,288; Feb. 10; v. 271; p. 356.
Grizzelle, Miles C., Le Roy, Ill. White collies intended for breeding purposes, and certain named seeds. No. 137,251; Nov. 23; v. 280; p. 794.
Groetsch, Jules, New Orleans, La. Non-alcoholic beverage and syrup for making same. No. 131,472; May 18; v. 274; p. 603.
Gro-Mor Chemical Co., Cincinnati, Ohio. Dandruff-remover. No. 132,694; June 29; v. 275; p. 1015.
Gross, Ignatz, Los Angeles, Calif. Boys' suits, overcoats, and caps. No. 134,961; Sept. 21; v. 278; p. 531.
Gross, J. B., Corporation, New York, N. Y. Condensed milk. No. 130,741; May 4; v. 274; p. 185.
Gross, L. N., Co., The, Cleveland, Ohio. Ladies' shirt-waists. No. 129,359; Feb. 17; v. 271; p. 508.
Gross, Samuel I., New York, N. Y. Handkerchiefs. No. 132,952; July 6; v. 276; p. 201.
Grossenbacher, John G., Apopka, Fla. Insecticides. No. 131,473; May 18; v. 274; p. 603.
Grosset & Dunlap, Inc., New York, N. Y. Series of books published periodically. No. 137,252; Nov. 23; v. 280; p. 794.
Groth, Herman A., Chicago, Ill. Printed books and pamphlets. Nos. 129,734–5; Mar. 9; v. 272; p. 364.
Groton Electrical Devices Inc., Groton, N. Y. Electrical lavatory drying-machines. No. 130,309; Apr. 30; v. 273; p. 620.
Groton Electrical Devices, Inc., Groton, N. Y. Electrical lavatory drying-machines. No. 135,252; Sept. 28; v. 278; p. 703.
Groton Electrical Devices, Inc., Groton, N. Y. Electrical lavatory drying-machines. No. 138,252; Dec. 21; v. 281; p. 564.
Gruen, D., Sons and Company, The, Cincinnati, Ohio. Watches. No. 132,157; June 15; v. 275; p. 617.
Gruen, D., Sons & Company, The, Cincinnati, Ohio. Watches. No. 132,953; July 6; v. 276; p. 201.
Gruenhagen's, San Francisco, Calif. Candies and chocolates. No. 130,310; Apr. 20; v. 273; p. 620.
Guarantee Construction Company, New York, N. Y. Conveyers. No. 137,790; Dec. 7; v. 281; p. 196.
Guarantee Liquid Measure Co., Rochester, Pa. Liquid-measuring pump. No. 136,446; Nov. 2; v. 280; p. 182.
Guarantee Specialty Manufacturing Company, The, Cleveland, Ohio. Snap-fasteners. No. 133,690; Aug. 3; v. 277; p. 173.
Guinzburg, Edward A., New York, N. Y. Shoe-tongue pads. No. 130,311; Apr. 20; v. 273; p. 620.
Guinzburg, William, New York, N. Y. Heel-grips. No. 130,181; Apr. 13; v. 273; p. 402.
Guiterman Rosenfeld Company, New York, N. Y. Clothing. No. 133,252; July 20; v. 276; p. 590.
Guiterman, Rosenfeld & Company, New York, N. Y. Electrically-operated automobile-horns. No. 138,337; Dec. 21; v. 281; p. 566.
Gulesian, Selden J., Revere, Mass. Hardware, and plumbing and steam-fitting supplies. No. 133,253; July 20; v. 276; p. 590.
Gulowsen Grei Engine Co., Seattle, Wash. Internal-combustion engines. No. 130,507; Apr. 27; v. 273; p. 802.
Gumbinsky Bros. Company, Chicago, Ill. Woolen blankets and woolen cloth in the piece. No. 132,400; June 22; v. 275; p. 818.
Gumpert, S. & Co., Brooklyn, N. Y. Food-powder to be used in the place of whites of eggs. No. 133,984; Aug. 10; v. 277; p. 388.
Gurney, A. D., Company, Boston, Mass. Pulp-board containing wood and cotton fibers. No. 135,684; Oct. 19; v. 279; p. 528.
Gurney, A. D., Company, Boston, Mass. Pulp-board. No. 136,022; Oct. 26; v. 279; p. 719.
Gusmer, A., Inc., New York, N. Y. Varnish substitute. No. 136,023; Oct. 26; v. 279; p. 719.
Guth Chocolate Company, Baltimore, Md. Candy. No. 129,360; Feb. 17; v. 271; p. 508.
Guth Chocolate Company, Baltimore, Md. Candy. No. 131,990; June 8; v. 275; p. 414.
Guthard, Edgar C., Co., Chicago, Ill. Rotary tools. No. 130,182; Apr. 13; v. 273; p. 402.
Guthrie & Company Limited, Singapore, Straits Settlements, and London, England. Dry paste, ready-mixed paints and varnishes. No. 137,618; Nov. 30; v. 280; p. 998.
Guthrie & Company Limited, Singapore, Straits Settlements, and London, England. Foolscap-paper. No. 138,015; Dec. 14; v. 281; p. 397.
Gutman, Eugene, & Co., New York, N. Y. Cotton piece goods. No. 132,401; June 22; v. 275; p. 818.
Gutmann, Henri, Silks Corporation, New York, N. Y. Silk goods in the piece. No. 133,427; July 27; v. 276; p. 769.
Gutta Percha & Rubber Manufacturing Company, The, New York, N. Y. Fabric hose, rubber hose, and sheet-packing. No. 136,821; Nov. 9; v. 280; p. 379.
H-B. Tempering Process Co., Clearbrook, Minn. Composition for tempering steel or other metals. No. 131,477; May 18; v. 274; p. 603.
H. D. Overall Co., Washington, D. C. Overalls, unionalls, and jumpers. No. 133,772; Aug. 3; v. 277; p. 176.
H. K. H. Silk Co. of New York, Inc., The, New York, N. Y. Natural and artificial silk threads and yarns. Nos. 134,379–80; Aug. 31; v. 277; p. 972.
H. K. H. Silk Co. of New York, Inc., New York, N. Y. Natural and artificial silk threads and yarns. No. 137,455; Nov. 23; v. 280; p. 800.
Haanel, Charles F., St. Louis, Mo. Printed books, booklets, &c., issued from time to time. No. 133,419; July 27; v. 276; p. 769.
Haas, Adolph R., Chicago, Ill. Ladies' waists and blouses. No. 134,672; Sept. 14; v. 278; p. 356.
Haas, Baruch & Co., Los Angeles, Calif. Foods. No. 130,312; Apr. 20; v. 273; p. 620.
Haas, Baruch & Co., Los Angeles, Calif. Canned salmon. No. 131,905; May 25; v. 274; p. 836.
Haas, Baruch & Co., Los Angeles, Calif. Foods and ingredients of foods. No. 134,369; Aug. 31; v. 277; p. 972.
Haas, Baruch & Co., Los Angeles, Calif. Rolled oats. No. 136,447; Nov. 2; v. 280; p. 182.
Haas Brothers, New York, N. Y. Silk piece goods. No. 129,736; Mar. 9; v. 272; p. 364.
Haas Brothers, New York, N. Y. Knitted piece goods composed of artificial tinsel. No. 129,737; Mar. 9; v. 272; p. 364.
Haas Brothers Fabrics Corporation, New York, N. Y. Piece goods. Nos. 131,129–30; May 4; v. 274; p. 197.
Haas Brothers Fabrics' Corporation, New York, N. Y. Piece goods composed of silk. No. 131,475; May 18; v. 274; p. 603.
Haas Brothers Fabrics' Corporation, New York, N. Y. Piece goods composed of cotton. No. 131,476; May 18; v. 274; p. 603.
Haas Brothers Fabrics Corporation, New York, N. Y. Piece goods of silk. No. 132,158; June 15; v. 275; p. 617.
Haber, Isidor, Brooklyn, N. Y. Olive-oil. No. 132,695; June 29; v. 275; p. 1015.
Haberdasher Co., The, New York, N. Y. Section of a monthly publication. No. 136,822; Nov. 9; v. 280; p. 379.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Habicht and Company, New York, N. Y. Shelled nuts and unshelled nuts in their natural state and dried fruits. No. 131,478; May 18; v. 274; p. 603.

Habicht and Company, New York, N. Y. Shelled and unshelled nuts and dried fruits. No. 131,991; June 8; v. 275; p. 414.

Habicht and Company, New York, N. Y. Shelled and unshelled nuts and dried fruits. Nos. 132,159–60; June 15; v. 275; p. 617.

Hachmeister-Lind Chemical Company, Pittsburgh, Pa. Metal and glass polishes. No. 137,619; Nov. 30; v. 280; p. 998.

Hackney, Louise W., Chicago, Ill. Hat-shields. No. 131,992; June 8; v. 275; p. 414.

Hadden Automatic Sprinkler Company, Los Angeles, Calif. Lawn and garden sprinkling and horticultural irrigation systems, &c. No. 133,136; July 13; v. 276; p. 402.

Hadley, Samuel H., New York, N. Y. Moving-picture film. No. 133,137; July 13; v. 276; p. 402.

Haeuser, A. R., Co., New York, N. Y. Varnishes, shellacs, lacquers, &c. No. 129,361; Feb. 17; v. 271; p. 508.

Haeuser, A. R., Co., New York, N. Y. Varnishes, &c., for varnishing and coloring ladies' straw hats. No. 131,766; May 25; v. 274; p. 831.

Haeuser, A. R., Co., New York, N. Y., Varnishes, shellacs, &c., for coloring straw braid. No. 131,767; May 25; v. 274; p. 831.

Haeuser, A. R., Co., New York, N. Y. Ready-mixed paints, paint-oils, varnishes, shellacs, lacquers, &c. No. 133,254; July 20; v. 276; p. 590.

Haeussermann, C. L., Philadelphia, Pa. Stomach-tonic and blood-purifier. No. 138,460; Dec. 28; v. 281; p. 782.

Hagemeyer Trading Company, New York, N. Y. Lubricating oils and greases. No. 128,396; Jan. 6; v. 270; p. 180.

Hagemeyer Trading Company, New York, N. Y. Compound for cleaning and bleaching wool. No. 138,461; Dec. 28; v. 281; p. 782.

Hagopian, Seraphen G., Chicago, Ill. Ice-cream cones. No. 130,742; May 4; v. 274; p. 185.

Hale Company, The, San Francisco, Calif. Canned fruits, &c. No. 131,131; May 4; v. 274; p. 197.

Hales & Edwards Company, Chicago, Ill. Mixed grain feeds for calves and pigs. No. 132,402; June 22; v. 275; p. 819.

Halff, S., & Co., Los Angeles, Calif. Hosiery. No. 134,673; Sept. 14; v. 278; p. 356.

Hall & Pickles Limited, Manchester, England. Metals and metal castings and forgings. No. 133,691; Aug. 3; v. 277; p. 173.

Hall, G. Batcheller, Co., Seattle, Wash. Evaporated milk. No. 128,989; Jan. 20; v. 270; p. 473.

Hall, Harry H., Dothan, Ala. Ready-mixed paints. Nos. 137,791–2; Dec. 7; v. 281; p. 196.

Hall, Hartwell & Co., Troy, N. Y. Clothing. No. 129,162; Jan. 27; v. 270; p. 614.

Hall, Homer H., Twin Falls, Idaho. Antiseptic for infections. No. 138,462; Dec. 28; v. 281; p. 782.

Hall, John D., Cincinnati, Ohio. Non-alcoholic, non-cereal, maltless beverages, and syrups for making same. No. 135,685; Oct. 19; v. 279; p. 528.

Hall, Martha, San Francisco, Calif. Medicine for tuberculosis. No. 134,674; Sept. 14; v. 278; p. 356.

Hall, Thomas H., Jersey City, N. J. Gloves of leather and fabric. No. 134,962; Sept. 21; v. 278; p. 531.

Hall, Thomas H., Jersey City, N. J. Gloves of silk and cotton. No. 138,253; Dec. 21; v. 281; p. 564.

Hall, Walter T., & Co., Ottumwa, Iowa. Candy. No. 138,016; Dec. 14; v. 281; p. 397.

Halladay & Son, Battle Creek, Mich. Catsup, vinegar, peas, coffee, &c. No. 133,992; Aug. 10; v. 277; p. 388.

Halle-Perris Trading Corporation, New York, N. Y. Cigarettes. Nos. 133,420–1; July 27; v. 276; p. 769.

Haller Baking Company, Pittsburgh, Pa. Bread. No. 130,743; May 4; v. 274; p. 185.

Haller Baking Company, Pittsburgh, Pa. Bread, cakes, and pastry. No. 131,132; May 4; v. 274; p. 197.

Hallgren, Carl E., Rock Island, Ill., and Davenport, Iowa. Moving-picture films. No. 133,138; July 13; v. 276; p. 402.

Halliday, H. L., Milling Co., Cairo, Ill. Horse and mule feed. No. 129,466; Feb. 24; v. 271; p. 678.

Halliday, H. L., Milling Co., Cairo, Ill. Scratch feed for poultry. No. 136,269; Oct. 26; v. 279; p. 727.

Halliday, H. L., Milling Co., Cairo, Ill. Mixed animal feed. No. 136,270; Oct. 26; v. 279; p. 727.

Halliday, H. L., Milling Co., Cairo, Ill. Dairy feed for animals. No. 136,271; Oct. 26; v. 279; p. 727.

Halliday, H. L., Milling Co., Cairo, Ill. Mixed animal feed. No. 136,272; Oct. 26; v. 279; p. 727.

Halligan Candy Company, Davenport, Iowa. Candy and confectionery. No. 136,486; Nov. 2; v. 280; p. 183.

Halligan Candy Company, Davenport, Iowa. Chocolate-bar candy. No. 136,823; Nov. 9; v. 280; p. 379.

Halligan Candy Company, Davenport, Iowa. Candy. No. 137,253; Nov. 23; v. 280; p. 794.

Hallmark Picture Corporation, New York, N. Y. Moving-picture films. No. 131,317; May 11; v. 274; p. 400.

Haloid Company, The, Rochester, N. Y. Photographic and developing papers. No. 131,480; May 18; v. 274; p. 603.

Halperin, Nathan, Brooklyn, N. Y. Wearing-apparel for males and females, known as jerseys. No. 133,692; Aug. 3; v. 277; p. 173.

Halsam Products Company, Chicago, Ill. Building-blocks, play-blocks, and blocks for games. No. 134,675; Sept. 14; v. 278; p. 356.

Hamburger, D. Ellis, Brooklyn, N. Y. Candy. No. 133,985; Aug. 10; v. 277; p. 388.

Hamburger, Isaac, & Sons, Baltimore, Md. Men's and women's outer-wear suits and overcoats. No. 131,768; May 25; v. 274; p. 831.

Hamersley Manufacturing Company, The, Garfield, N. J. Waxed, parchment, and transparent papers. No. 129,738; Mar. 9; v. 272; p. 364.

Hamersley Manufacturing Company, Garfield, N. J. Transparent papers. No. 129,739; Mar. 9; v. 272; p. 364.

Hamersley Manufacturing Company, Garfield, N. J. Parchment-papers. No. 129,740; Mar. 9; v. 272; p. 364.

Hamilton Mfg. Co., Seattle, Wash. Imitation-maple food-flavoring syrup. No. 137,503; Nov. 23; v. 280; p. 803.

Hamilton Motors Company, Grand Haven, Mich. Motor-trucks and automobiles. No. 135,253; Sept. 28; v. 278; p. 703.

Hammel, Charles A., Los Angeles, Calif. Oil-burners. No. 132,696; June 29; v. 275; p. 1016.

Hammer-Bray Co., Oakland, Calif. Heating, lighting, and ventilating apparatus. No. 133,139; July 13; v. 276; p. 402.

Hammerman, Jacob K., Chicago, Ill. Children's muslin gowns. No. 132,161; June 15; v. 275; p. 617.

Hammermill Paper Company, Erie, Pa. Writing, bond, and ledger paper, envelops, &c. No. 137,793; Dec. 7; v. 281; p. 196.

Hammon, James H., Vincennes, Ind. Spectacle-lenses, lens-blanks, and spectacle-frames. No. 133,693; Aug. 3; v. 277; p. 173.

Hammond Iron Works, Warren, Pa. Oil-tanks. No. 134,968; Sept. 21; v. 278; p. 532.

Hammond Iron Works, Warren, Pa. Oil-tanks. No. 135,454; Oct. 12; v. 279; p. 343.

Hammond, William, Philadelphia, Pa. Mucous tonic. No. 129,467; Feb. 24; v. 271; p. 678.

Hammondsport Products Co. Inc., Hammondsport, N. Y. Grape juice. No. 131,481; May 18; v. 274; p. 603.

Hampton, James, Detroit, Mich. Salve for eczema. No. 131,482; May 18; v. 274; p. 604.

Hancock, Buford D., Atlanta, Ga. Preparations for treatment of pyorrhea. No. 129,468; Feb. 24; v. 271; p. 678.

Hancock Eugenia G., New York, N. Y. Antiseptic and astringent. No. 134,370; Aug. 31; v. 277; p. 972.

Hand Knit Hosiery Co., Sheboygan, Wis. Certain named garments for men, women, and children. No. 133,422; July 27; v. 276; p. 769.

Hand Knit Hosiery Co., Sheboygan, Wis. Clothing. No. 135,455; Oct. 12; v. 279; p. 343.

Handley Page Limited, Cricklewood, London, England. Engines and compressed-air motors. No. 131,569; May 18; v. 274; p. 606.

Handley Page Limited, Cricklewood, London, England. Measuring and scientific appliances. No. 131,814; May 25; v. 274; p. 833.

Handley Page Limited, London, England. Blank name and instruction plates. No. 132,955; July 6; v. 276; p. 201.

Hannibal Pharmacal Company, St. Louis, Mo. Antiseptic lotion for use as a depilatory. No. 128,397; Jan. 6; v. 270; p. 180.

Hanovia Chemical and Manufacturing Company, Newark, N. J. Therapeutic ultra-violet-ray air-cooled quartz lamp. No. 137,620; Nov. 30; v. 280; p. 998.

Hanselmann-Johnson Company, Cincinnati, Ohio. Silk fabric and ribbons in the piece. No. 132,404; June 22; v. 275; p. 819.

Hansen Livestock & Feeding Company, Ogden, Utah. Foods for hogs, cattle, sheep, and poultry. No. 128,398; Jan. 6; v. 270; p. 180.

Hansen, O. C., M'f'g Co., Milwaukee, Wis. Gloves and mittens. No. 128,990; Jan. 20; v. 270; p. 473.

Hansen Packing Company, Butte, Mont. Ham and bacon. No. 137,032; Nov. 16; v. 280; p. 583.

Hanson Motor Company, Atlanta, Ga. Automobiles. No. 138,017; Dec. 14; v. 281; p. 397.

Hanson & Van Winkle Company, The, Newark, N. J. Preparation for polishing metals. Nos. 133,986–7; Aug. 10; v. 277; p. 388.

Happ Brothers Co., Macon, Ga. Overalls and jackets. No. 130,744; May 4; v. 274; p. 185.

Happ Brothers Co., Macon, Ga. Garment in the nature of overalls. No. 137,751; Nov. 30; v. 280; p. 1003.

Harbert, James, Polson, Mont. Raincoats. No. 130,508; Apr. 27; v. 273; p. 802.

Harbor City Canning Company, Harbor City, Calif. Canned fruits. No. 131,483; May 18; v. 274; p. 604.

Hardaway-Cargill Co., Columbus, Ga. Corn and cane products syrups. No. 130,183; Apr. 13; v. 273; p. 402.

Harden, Edward N., Phoebus, Va. Liniment for sprains and bruises. No. 136,024; Oct. 26; v. 279; p. 719.

Harder, Francis C., Plainfield, N. J. Cotton piece goods. No. 132,163; June 15; v. 275; p. 617.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Harder, Francis C., Plainfield, N. J. Cotton piece goods. No. 135,182; Sept. 21; v. 278; p. 540.
Harder Manufacturing Corporation, Cobleskill, N. Y. Refrigerators. Nos. 135,254–5; Sept. 28; v. 278; p. 703.
Hardie Bros. Co., Pittsburgh, Pa. Candies. No. 132,698; June 29; v. 275; p. 1016.
Hardin Bag Co., The, Inc., New Orleans, La. Burlap bags. No. 136,448; Nov. 2; v. 280; p. 182.
Hardin, Hamilton & Lewman, Louisville, Ky. Field-seeds. No. 130,066; Apr. 6; v. 273; p. 180.
Harding, Ralph T., Kansas City, Mo. Animal foods, particularly bird-seed. No. 134,871; Aug. 31; v. 277; p. 972.
Hardware Manufacturing Co., Seattle, Wash. Electric spot-lights or searchlights. No. 131,769; May 25; v. 274; p. 831.
Hardy, F. A., & Company, Chicago, Ill. Blanket of insulating material for electrical workers, linemen, and persons similarly employed. No. 133,694; Aug. 3; v. 277; p. 173.
Hardy, Robert T., Brooklyn, N. Y. Semi-annual periodicals. No. 134,676; Sept. 14; v. 278; p. 356.
Hare, William I., New York, N. Y. Weeding-trowels. No. 128,720; Jan. 13; v. 270; p. 339.
Harkert Cigar Co., The, Davenport, Iowa. Cigars. No. 133,255; July 20; v. 276; p. 590.
Harland and Little, Inc., New York, N. Y. Mixed paints. No. 131,770; May 25; v. 274; p. 831.
Harley-Davidson Motor Co., Milwaukee, Wis. Motorcycles, bicycles, side cars, &c. No. 135,864; Oct. 19; v. 279; p. 535.
Harley, E. C., Company, The, Dayton, Ohio. Coffee. Nos. 132,957–8; July 6; v. 276; p. 201.
Harley, E. C., Company, The, Dayton, Ohio. House and barn paints. No. 133,696; Aug. 3; v. 277; p. 173.
Harley, E. C., Company, The, Dayton, Ohio. Coffee. No. 137,033; Nov. 16; v. 280; p. 583.
Harley Soap Company, Philadelphia, Pa. Automobile soap. No. 137,034; Nov. 16; v. 280; p. 583.
Harmer, Joseph P., Philadelphia, Pa. Medical and pharmaceutical compound for treatment of syphilis. No. 136,449; Nov. 2; v. 280; p. 182.
Harper & McIntire Company, Incorporated, Ottumwa, Iowa. Chicken-waterers, and chicken-coops. No. 134,372; Aug. 31; v. 277; p. 972.
Harper & McIntire Company, Incorporated, Ottumwa, Iowa. Bicycles. No. 134,373; Aug. 31; v. 277; p. 972.
Harper & McIntire Company, Incorporated, Ottumwa, Iowa. Knives, forks, and spoons, (silver-plated). No. 136,025; Oct. 26; v. 279; p. 719.
Harper & McIntire Company, Incorporated, Ottumwa, Iowa. Machines and tools. No. 137,254; Nov. 23; v. 280; p. 794.
Harper & McIntire Company, Incorporated, Ottumwa, Iowa. Air-rifles, sleds, boy's express-wagons and coaster-wagons. No. 137,255; Nov. 23; v. 280; p. 794.
Harpham Bros. Co., Lincoln, Nebr. Horse-collar. No. 133,697; Aug. 3; v. 277; p. 173.
Harrell, Arlando T., Chicago, Ill. Candy. No. 133,988; Aug. 10; v. 277; p. 388.
Harriman Manufacturing Company, The, Harriman, Tenn. Cultivators, planters, and fertilizer-distributers. No. 131,318; May 11; v. 274; p. 400.
Harrington & King Perforating Co., The, Chicago, Ill. Rice-huller screens. No. 137,256; Nov. 23; v. 280; p. 794.
Harris, Abraham, New York, N. Y. Fountain-pens. No. 132,699; June 29; v. 275; p. 1016.
Harris, Chas. A., Dawson, Ga. Blood remedy. No. 131,484; May 18; v. 274; p. 604.
Harris Company, Inc., New York, N. Y. Cotton piece goods, bunting. No. 129,741; Mar. 9; v. 272; p. 364.
Harris, H. P., Scranton, Pa. Books and cards of a blank nature. No. 138,018; Dec. 14; v. 281; p. 398.
Harris, Milton, Cincinnati, Ohio. Pajamas, union-pajamas, sleeping and lounging garments, and night-shirts. No. 133,256; July 20; v. 276; p. 590.
Harrison, Benjamin V., Co., New York, N. Y. Imitation leather. No. 130,067; Apr. 6; v. 273; p. 180.
Harrison, Edward V., Greensboro, N. C. Medicinal compound for treatment of colds, neuralgia, grippe, and headache. No. 132,405; June 22; v. 275; p. 819.
Harrison, Levy, Philadelphia, Pa. Suits, coats, skirts, dresses. No. 128,721; Jan. 13; v. 270; p. 339.
Harrod's Stores, Limited, London, England. Carpets. No. 132,959; July 6; v. 276; p. 201.
Harrold Tool & Forge Co., The, Columbiana, Ohio. Tools. No. 131,133; May 4; v. 274; p. 197.
Harrow-Taylor Butter Co., Kansas City, Mo. Oleomargarin. No. 138,544; Dec. 28; v. 281; p. 786.
Hart, Albert, New York, N. Y. Chamois-skins. No. 132,406; June 22; v. 275; p. 819.
Hart, B., & Brother, San Francisco, Calif. Silk piece goods. No. 135,686; Oct. 19; v. 279; p. 528.
Hart, Charles S., Film Company, New York, N. Y. Motion-picture films. No. 128,722; Jan. 13; v. 270; p. 339.
Hart & Company, The, Cleveland, Ohio. Hats for women and children. Nos. 138,545–6; Dec. 28; v. 281; p. 786.
Hart & Hutchinson Company, The, New Britain, Conn. Steel cabinets for storage and filing purposes. No. 133,257; July 20; v. 276; p. 590.
Hart, L. H. C., St. Louis, Mo. White lead, zinc, dry red lead and colors in oil. No. 132,164; June 15; v. 275; p. 617.
Hart, Louis H. C., St. Louis, Mo. White lead, zinc, and colors in oil, dry red lead. Nos. 128,991–5; Jan. 20; v. 270; p. 473.
Hart, Schaffner & Marx, Chicago, Ill. Coats, vests, trousers, &c. No. 129,362; Feb. 17; v. 271; p. 508.
Hart, Walter H. Grease for stopcocks and the like. No. 132,165; June 15; v. 275; p. 617.
Hartford Battery Manufacturing Company, The, Hartford, Conn. Storage batteries and parts thereof. No. 134,677; Sept. 14; v. 278; p. 356.
Hartman Company, Chicago, Ill. Chemical closets for use indoors without plumbing. No. 129,985; Mar. 16; v. 272; p. 539.
Hartman Company, Chicago, Ill. Hog-waterers of the nature of tanks, serving as a water-supply. No. 130,745; May 4; v. 274; p. 185.
Hartman Company, The, Chicago, Ill. Saw-frames and sawing outfits, certain named feed-cutters, &c. No. 131,485; May 18; v. 274; p. 604.
Hartman Company, The, Chicago, Ill. Animal-feed cookers. No. 134,168; Aug. 17; v. 277; p. 581.
Hartman Trunk Co., Racine, Wis. Trunks. No. 130,068; Apr. 6; v. 273; p. 180.
Hartmann Brothers, Inc., New York, N. Y. Hair-nets. No. 133,258; July 20; v. 276; p. 590.
Hartmann Brothers, Inc., New York, N. Y. Hair-nets. No. 133,699; Aug. 3; v. 277; p. 173.
Hartmann & Fehrenbach Products Co., Wilmington, Del. Malt beverage. No. 131,319; May 11; v. 274; p. 400.
Hartmann Pacific Company, Inc., New York, N. Y. Hair-nets. No. 136,450; Nov. 2; v. 280; p. 182.
Hartofelis, Nicles, Manchester, N. H. Medicine for the treatment of venereal diseases. No. 135,687; Oct. 19; v. 279; p. 528.
Hart-Parr Company, Charles City, Iowa. Tractors, plows, drills, &c. No. 136,720; Nov. 2; v. 280; p. 191.
Hartzell, Earl F., Pittsburgh, Pa. Powdered graphite. No. 133,425; July 27; v. 276; p. 769.
Hartzell, George W., Piqua, Ohio. Airplane-propellers. No. 132,700; June 29; v. 275; p. 1016.
Harvard Brewing Co., (now by change of name Harvard Company,) Lowell, Mass. Ginger-ale. No. 128,724; Jan. 13; v. 270; p. 339.
Harvard Brewing Company, Lowell, Mass. Non-alcoholic carbonated beverages. No. 136,824; Nov. 9; v. 280; p. 379.
Harvard Company. (See Harvard Brewing Co.)
Harvard Company, Lowell, Mass. Cereal non-intoxicating malt beverage. No. 128,723; Jan. 13; v. 270; p. 339.
Harvard Company, Lowell, Mass. Cereal non-intoxicating malt beverage. No. 129,163; Jan. 27; v. 270; p. 614.
Harvard Company, Lowell, Mass. Cereal, non-intoxicating, malt beverage. No. 136,451; Nov. 2; v. 280; p. 182.
Harvey Company, Huntington, W. Va. Store furniture. No. 137,794; Dec. 7; v. 281; p. 196.
Harwood Counter Company, Lynn, Mass. Shoe-counters. No. 128,996; Jan. 20; v. 270; p. 473.
Harz, George, Chicago, Ill. Insecticides for dogs and cats. No. 135,256; Sept. 28; v. 278; p. 703.
Hasel, Leo, San Francisco, Calif. Heel and toe plates for shoes. No. 132,960; July 6; v. 276; p. 201.
Haskell & Brown, Lynn, Mass. Boots, shoes, and slippers. No. 137,752; Nov. 30; v. 280; p. 1003.
Haskins Bros. & Company, Sioux City, Iowa, and Omaha, Nebr. Toilet-soap. No. 136,452; Nov. 2; v. 280; p. 182.
Haskins Bros. & Company, Sioux City, Iowa. Soap. No. 137,257; Nov. 23; v. 280; p. 794.
Haskins, R. G., Company, Chicago, Ill. Electrically-operated grinders for millstones. No. 133,140; July 13; v. 276; p. 402.
Hassebrock Brothers, St. Peter, Ill. Patches for wheel-tire tubes. No. 133,698; Aug. 3; v. 277; p. 173.
Hassler, Fred H., Manning, Iowa. Live hogs. No. 128,725; Jan. 13; v. 270; p. 339.
Hastings, Henry M., San Francisco, Calif. Printed forms for estimates of printing-work. No. 130,747; May 4; v. 274; p. 185.
Hastings, Matthew E., New York Mills, N. Y. Bee-escapes. No. 128,399; Jan. 6; v. 270; p. 180.
Hastings, Samuel, Co., Cairo, Ill. Feed for animals. No. 136,825; Nov. 9; v. 280; p. 379.
Hathaway, C. F., & Sons, North Cambridge, Mass. Bread. No. 130,748; v. 274; p. 185.
Hathaway, C. F., & Sons, North Cambridge, Mass. Bread. No. 137,258; Nov. 23; v. 280; p. 794.
Hathaway, C. F., & Sons, North Cambridge, Mass. Bread. No. 138,393; Dec. 21; v. 281; p. 570.
Hatheway, Chauncey H., Greenwich, Conn. Game of the board-and-disk type. No. 130,069; Apr. 6; v. 273; p. 180.
Hattori, Yozo, Los Angeles, Calif. Foods and ingredients of foods. No. 132,407; June 22; v. 275; p. 819.
Hauenstein, John, New Ulm, Minn. Cereal malt beverage. No. 132,408; June 22; v. 275; p. 819.
Haughton, Richard, Paoli, Pa. Foods. Nos. 136,026–7; Oct. 26; v. 279; p. 719.
Havana Commercial Company, New York, N. Y. Cigars. No. 130,070; Apr. 6; v. 273; p. 180.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Havana Commercial Company, New York, N. Y. Cigars. No. 137,622; Nov. 30; v. 280; p. 998.
Havens, Clara V., New York, N. Y. Brassières. No. 132,961; July 6; v. 276; p. 201.
Havens & Geddes Company, Indianapolis, Ind. Piece dress goods, white goods, sheets, &c. No. 129,742; Mar. 9; v. 272; p. 364.
Havre, Jean B., San Francisco, Calif. Petroleum products. No. 133,700; Aug. 3; v. 277; p. 173.
Hawaiian Pineapple Company, Iwilei and Honolulu, Hawaii. Canned pineapple. Nos. 130,509–10; Apr. 27; v. 273; p. 802.
Hawker & Botwood Ltd., London, England. Chemical preparation containing the properties of a manure. No. 131,771; May 25; v. 274; p. 831.
Hawk-Eye Mfg. Company, Dallas, Tex. Polishing preparations for automobiles, carriages, coaches, floors, &c. No. 134,964; Sept. 21; v. 278; p. 532.
Hawkeye Oil Company, Waterloo, Iowa. Medicated crude oil for treating cutaneous diseases of animals. No. 134,965; Sept. 21; v. 278; p. 532.
Hawkins, Glover R., Lexington, Mo. Hair-grower, pressing-oil, temple-oil, and hair-dye. No. 131,486; May 18; v. 274; p. 604.
Hawkins and Stubblefield, Rogers, Ark. Toy dolls. No. 136,028; Oct. 26; v. 279; p. 710.
Hawley & Hoops, New York, N. Y. Candies. No. 132,970; July 6; v. 276; p. 202.
Hawley and Hoops, New York, N. Y. Candies. No. 133,980; Aug. 10; v. 277; p. 388.
Hawley, Joel E., Kansas City, Mo. Dentifrice. No. 132,409; June 22; v. 275; p. 819.
Haworth, Richard, and Company, Limited, Manchester, England. Cotton piece goods. No. 136,826; Nov. 9; v. 280; p. 379.
Haworth, Richard, and Company, Limited, Manchester, England. Long-cloths, sheetings, nainsooks, &c. No. 136,827; Nov. 9; v. 280; p. 380.
Haynes Automobile Company, The, Kokomo, Ind. Automobiles. No. 134,678; Sept. 14; v. 278; p. 356.
Haynes Chemical Corporation, Richmond, Va. Insecticides, deodorizers, &c. No. 128,726; Jan. 13; v. 270; p. 389.
Haynes, J. J., & G. W., Atlanta, Ga. Cleansing preparation for woodwork, metal, or clothing. No. 135,257; Sept. 28; v. 278; p. 703.
Haynes Stellite Co., The, Kokomo, Ind. Blades and cutters for milling, turning, and the like metal-working machinery. No. 134,158; Aug. 17; v. 277; p. 581.
Hays, Levi & Co., New York, N. Y. Men's suits. No. 131,134; May 4; v. 274; p. 197.
Hayssen, E. R., Seneca Falls, N. Y. Goiter preparations. No. 128,400; Jan. 6; v. 270; p. 180.
Hayter, A. P., Greenville, Tex. Soap. No. 135,688; Oct. 19; v. 279; p. 528.
Hazen-Brown Company, Boston, Mass. Backing-pastes used in shoe manufacture. No. 131,772; May 25; v. 274; p. 831.
Headley Good Roads Company, Philadelphia, Pa. Road-oil used as a binder. No. 134,507; Sept. 7; v. 278; p. 160.
Heald Machine Company, The, Worcester, Mass. Grinding-machines. No. 138,022; Dec. 14; v. 281; p. 398.
Health Food Baking Co., Inc., Newport News, Va. Bread and cake. No. 128,727; Jan. 13; v. 270; p. 389.
Heap, William, & Sons, Grand Haven, Mich. Closet-seats and flushing-tanks. No. 131,994; June 8; v. 275; p. 414.
Hearn, James A., & Son Inc., New York, N. Y. Ladies' hats. No. 129,164; Jan. 27; v. 270; p. 614.
Hearn, James A., & Son, Inc., New York, N. Y. Clothing. No. 136,828; Nov. 9; v. 280; p. 380.
Hearn Oil Company, Wilmington, Del. Lubricating-oils. No. 131,773; May 25; v. 274; p. 831.
Hebb Motors Company, Lincoln, Nebr. Tractors. No. 131,487; May 18; v. 274; p. 604.
Hebb Motors Company, Lincoln, Nebr. Automobiles and automobile-trucks. No. 131,995; June 8; v. 275; p. 414.
Heco Envelope Company, Chicago, Ill. Paper sleeve-protectors. No. 136,453; Nov. 2; v. 280; p. 182.
Heco Envelope Company, Chicago, Ill. Mailing-envelops. No. 137,623; Nov. 30; v. 280; p. 998.
Hector, Pantell, Springfield, Mass. Cigars. No. 130,184; Apr. 13; v. 273; p. 402.
Hedman, Nels O., Leadville, Colo. Saw-sets. No. 134,169; Aug. 17; v. 277; p. 581.
Heffelman, Charles L., Indianapolis, Ind. Candies, commonly known as suckers. No. 135,689; Oct. 19; v. 279; p. 528.
Heffner, Charles L., Brooklyn, N. Y. Medicinal preparation used in the treatment of certain named diseases. No. 134,679; Sept. 14; v. 278; p. 356.
Heide, Henry, Incorporated, New York, N. Y. Marshmallow candies and confection. No. 131,488; May 18; v. 274; p. 604.
Heidelbaugh, William W., Lancaster, Pa. Coal. No. 129,165; Jan. 27; v. 270; p. 614.
Heil, Henry, Chemical Company, St. Louis, Mo. Insecticides. No. 131,320; May 11; v. 274; p. 400.
Heilig, Luther A., San Diego, Calif. Optical lenses for spectacles and eyeglasses. No. 134,159; Aug. 17; v. 277; p. 581.
Heilman, Frederick, Company, Johnstown, Pa. Inhalers. No. 135,690; Oct. 19; v. 279; p. 528.
Heine, Frederick W., New York, N. Y. Essential oils. No. 128,997; Jan. 20; v. 270; p. 473.
Heinemann, A. D., Memphis, Tenn. Tonic for treatment of la grippe, colds, fever, &c. No. 129,469; Feb. 24; v. 271; p. 679.
Heinlein, Charles, Sr., Cincinnati, Ohio. Trunks, traveling-bags, and suitcases. No. 137,260; Nov. 23; v. 280; p. 794.
Heinrich, Edward O., Boulder, Colo. Medical preparation for internal use for intestinal and urethral asepsis. No. 132,701; June 29; v. 275; p. 1016.
Heinrich, Hermann & Weiss, New York, N. Y. Ladies' handbags. No. 129,986; Mar. 16; v. 272; p. 539.
Heinrichs, Richard H., New York, N. Y. Ointment for external cancers, eczema, ulcers, &c. No. 128,586; Jan. 6; v. 270; p. 186.
Hekman & Goodman Candy Company, The, Denver, Colo. Candies. No. 134,374; Aug. 31; v. 277; p. 972.
Heller & Long, New York, N. Y. Cotton piece goods. No. 129,743; Mar. 9; v. 272; p. 364.
Heller, B., and Company, Chicago, Ill. Soluble and powdered stabilizing agent to be employed in the manufacture of ice-cream. No. 134,375; Aug. 31; v. 277; p. 972.
Heller, L., & Son, Providence, R. I. Imitation-pearl necklaces. No. 130,071; Apr. 6; v. 273; p. 180.
Heller Leather Co., Milwaukee, Wis. Leather gloves. No. 130,750; May 4; v. 274; p. 185.
Heller Leather Co., The, Milwaukee, Wis. Leather gloves. No. 135,457; Oct. 12; v. 279; p. 343.
Helm, Sarah, Indianapolis, Ind. Hair preparations. No. 131,774; May 25; v. 274; p. 832.
Helpa, Alfred F., Duluth, Minn. Liniment. No. 129,744; Mar. 9; v. 272; p. 364.
Hemig, Roy A., Laporte, Ind. Preparation for treatment of bunions. No. 132,871; June 29; v. 275; p. 1021.
Hemp & Co. (Corp.), St. Louis, Mo. Wood, coal, and gas heaters. No. 132,702; June 29; v. 275; p. 1016.
Hemp & Co. (Corp.), St. Louis, Mo. Stovepipes and stovepipe-elbows. Nos. 132,962–4; July 6; v. 276; p. 201.
Hemp and Co., (Corp.) St. Louis, Mo. Stovepipe and stovepipe-elbows. No. 133,426; July 27; v. 276; p. 769.
Hencken & Burner, San Francisco, Calif. Canned condensed milk. No. 131,321; May 11; v. 274; p. 400.
Hendee Manufacturing Co., Springfield, Mass. Piston-rings. No. 129,745; Mar. 9; v. 272; p. 364.
Hendee Manufacturing Company, Springfield, Mass. Bicycles and attachments therefor. No. 135,458; Oct. 12; v. 279; p. 343.
Hendee Manufacturing Company, Springfield, Mass. Motorcycles and attachments therefor. No. 135,865; Oct. 19; v. 279; p. 535.
Henderson Lithographing Company, The, Cincinnati, Ohio. Blotters, folders, &c. No. 134,680; Sept. 14; v. 278; p. 356.
Henderson, Robert, San Francisco, Calif. Carpet, rug, and fabric cleaning preparation. No. 137,261; Nov. 23; v. 280; p. 794.
Hendler Creamery Co, The, Baltimore, Md. Ice-cream, frozen custards, ices. No. 128,401; Jan. 6; v. 270; p. 180.
Hendler Creamery Company, The, Baltimore, Md. Ice-cream, frozen custard, and ices. No. 134,376; Aug. 31; v. 277; p. 972.
Hendricks, Charles I., New York, N. Y. Protective coverings for attachment to the platens or rolls of typewriters and adding-machines. No. 134,170; Aug. 17; v. 277; p. 581.
Hendricks, Charles I., New York, N. Y. Material to be made into protective coverings for certain named platens. No. 136,454; Nov. 2; v. 280; p. 182.
Hendrix, Granville L., Santa Rosa, Calif. Neckties. No. 130,313; Apr. 20; v. 273; p. 620.
Hendry, Oscar W., Toronto, Ontario, Canada. Polish for furniture, &c. No. 128,998; Jan. 20; v. 270; p. 473.
Henkel-Clauss Co., The, Fremont, Ohio. Strops. No. 135,691; Oct. 19; v. 279; p. 528.
Henkel-Clauss Co., The, Fremont, Ohio. Choppers and cutlery. No. 136,455; Nov. 2; v. 280; p. 182.
Henkel-Clauss Co., The, Fremont, Ohio. Manicure, pedicure and surgical implements. No. 136,456; Nov. 2; v. 280; p. 182.
Henry-Brown Co., Glendale, Calif. Beverages. No. 135,922; Oct. 26; v. 279; p. 716.
Henry-Brown Company, Inc., Glendale, Calif. Non-intoxicating non-alcoholic fruit beverage. Nos. 137,002–3; Nov. 9; v. 280; p. 387.
Henry-Brown Company, Inc., Glendale, Calif. Non-intoxicating fruit beverage. No. 137,504; Nov. 23; v. 280; p. 803.
Hensch Food Company, Cleveland, Ohio. Foods for infants, invalids, and convalescents. No. 131,136; May 4; v. 274; p. 197.
Henwood & Nowak, Inc., Boston, Mass. Glazed kid. No. 132,410; June 22; v. 275; p. 819.
Heppenstall Forge and Knife Company, Pittsburgh, Pa. Heat-treated forgings. No. 134,171; Aug. 17; v. 277; p. 581.
Heppenstall Forge & Knife Company, Pittsburgh, Pa. Steel. Nos. 135,692–3; Oct. 19; v. 279; p. 528.

Alphabetical list of registrants of trade-marks—Continued.

Heppenstall Forge & Knife Company, Pittsburgh, Pa. Steel. Nos. 136,457–8; Nov. 2; v. 280; p. 182.

Hepworth, S. S., Company, New York, N. Y. Centrifugal driers, filters, and separators and parts thereof. No. 133,259; July 20; v. 276; p. 590.

Herbert Packing Co. Inc., San Jose, Calif. Canned fruits and vegetables. Nos. 132,965–6; July 6; v. 276; p. 201.

Herbert Packing Co., Inc., San Jose, Calif. Canned fruits and vegetables. No. 133,990; Aug. 10; v. 277; p. 388.

Herbert Packing Co., Inc., San Jose, Calif. Canned fruits. No. 133,991; Aug. 10; v. 277; p. 388.

Herbert Packing Co., Inc., San Jose, Calif. Canned fruits and vegetables. No. 136,459; Nov. 2; v. 280; p. 182.

Herbert, William U., Washington, D. C. Salve and ointment. No. 128,402; Jan. 6; v. 270; p. 180.

Herbrand Co., The, Fremont, Ohio. Wrenches, screw-drivers, and hammers. No. 130,511; Apr. 27; v. 273; p. 803.

Herculean Products Company, Newark, N. J. Complete toilet and manicure sets and component parts thereof. Nos. 133,141–2; July 13; v. 276; p. 402.

Hercules Electric Steel Corporation, New York, N. Y. Tool-steel in bar, rod, and other forms. No. 132,703; June 29; v. 275; p. 1016.

Hercules Foundries Inc., Huntington Park, Calif. Cast-iron pipe-fittings. Nos. 136,460–2; Nov. 2; v. 280; p. 182.

Herdman, W. H., Portland, Oreg. Medicine for indigestion. No. 128,999; Jan. 20; v. 270; p. 473.

Herkimer Fibre Company, The, Herkimer, N. Y. Manufactured leather board. No. 130,749; May 4; v. 274; p. 185.

Herman, Henry, Mitchell, S. D. Non-alcoholic, non-cereal, and maltless flavoring-syrups. No. 136,029; Oct. 26; v. 279; p. 719.

Hermo Co., Chicago, Ill. Toilet preparations. No. 132,704; June 29; v. 275; p. 1016.

Hermo Co., Chicago, Ill. Hair-dressing. No. 137,262; Nov. 23; v. 280; p. 794.

Hero Shirt Manufacturing Company, New York, N. Y. Men's negligée and dress shirts. No. 137,621; Nov. 30; v. 280; p. 998.

Heroux, Frederick A., Oakland, Calif. Bread. No. 131,137; May 4; v. 274; p. 197.

Herpich, John L., Columbus, Ohio. Medicine for use in the treatment of certain named diseases and affections. No. 132,411; June 22; v. 275; p. 819.

Herrmann, Geo., Company, San Francisco, Calif. Hops. No. 134,377; Aug. 31; v. 277; p. 972.

Herschell-Spillman Motor Company, North Tonawanda, N. Y. Gasoleme-motors. No. 136,463; Nov. 2; v. 280; p. 182.

Hershey Manufacturing Company, The, Denver, Colo. Steering-post locks for automobiles. No. 136,030; Oct. 26; v. 279; p. 719.

Herzfeld-Phillipson Company, Milwaukee, Wis. Player-pianos. No. 135,258; Sept. 28; v. 278; p. 703.

Hessberg, Morris & Gunst, Inc., Baltimore, Md. Boys' suits. No. 133,260; July 20; v. 276; p. 591.

Hewes & Potter, Boston, Mass. Garters. No. 130,314; Apr. 20; v. 273; p. 620.

Hexmen Moto Company, Racine, Wis. Carbureters and air-regulating devices for internal-combustion engines. No. 135,694; Oct. 19; v. 279; p. 528.

Hexter-Stewart Corporation Company, The, Cleveland, Ohio. Liquid soap. No. 134,966; Sept. 21; v. 278; p. 532.

Heymann, Max, Mount Vernon, N. Y. Magazine or periodical. No. 135,259; Sept. 28; v. 278; p. 703.

Heywood Brothers and Wakefield Company, Gardner, Mass. Furniture. No. 128,728; Jan. 13; v. 270; p. 339.

Hezel Milling Company, East St. Louis, Ill. Self-rising wheat-flour. Nos. 130,512–13; Apr. 27; v. 273; p. 803.

Hezel Milling Company, East St. Louis, Ill. Self-rising wheat-flour. No. 131,138; May 4; v. 274; p. 197.

Hibbard, Spencer, Bartlett & Co., Chicago, Ill. Hammers, knives, and shingling-hatchets. No. 131,322; May 11; v. 274; p. 400.

Hibbard, Spencer, Bartlett, & Co., Chicago, Ill. Fishing rods, lines, reels, hooks, and fishing-bait—namely, artificial minnow. No. 135,260; Sept. 28; v. 278; p. 703.

Hickey, Edward R., Los Angeles, Calif. Electric motors and generators and parts thereof. No. 138,019; Dec. 14; v. 281; p. 398.

Hickey, Elizabeth M., Seattle, Wash. Cleaning compound. No. 135,261; Sept. 28; v. 278; p. 703.

Hickok Producing Company, The, Toledo, Ohio. Gasolene. No. 131,906; May 25; v. 274; p. 836.

Hickok Producing Company, Toledo, Ohio. Gasolene. No. 136,829; Nov. 9; v. 280; p. 380.

Hicks, Herma L., Rocky Mount, N. C. Medicinal preparation for diseases of the stomach, liver, kidneys, &c. No. 132,412; June 22; v. 275; p. 819.

Hickson Inc., New York, N. Y. Ladies' gowns, tailored frocks, hats, &c. No. 138,187; Dec. 14; v. 281; p. 405.

Higginbotham-Bailey-Logan Company, Dallas, Tex., and New York, N. Y. Middy-blouses and envelop-chemise. No. 133,429; July 27; v. 276; p. 769.

Higgins Spring & Axle Company, Racine, Wis. Vehicle-springs and spring-plates and spring-leaves for such springs. No. 134,378; Aug. 31; v. 277; p. 972.

High Rock Knitting Company, Philmont, N. Y. Underwear. No. 128,729; Jan. 13; v. 270; p. 339.

Higman, J. M., Los Angeles, Calif. Knockdown houses. No. 129,987; Mar. 16; v. 272; p. 539.

Hide Leather & Belting Co., Indianapolis, Ind. Leather belting. No. 138,023; Dec. 14; v. 281; p. 398.

Hide Leather & Belting Co., Indianapolis, Ind. Leather belting. Nos. 138,254–8; Dec. 21; v. 281; p. 564.

Hieber, John G. F., Spokane, Wash. Non-alcoholic, non-intoxicating, non-cereal, maltless beverage. No. 137,269; Nov. 23; v. 280; p. 794.

Highway Trailer Company, Edgerton, Wis. Trailers. No. 135,262; Sept. 28; v. 278; p. 703.

Hill, Ernest A., San Francisco, Calif. Overalls for children. No. 134,967; Sept. 21; v. 278; p. 532.

Hill, Gilbert J., Newark, N. J. Drawing-compasses. No. 133,701; Aug. 3; v. 277; p. 173.

Hill Insulating & Manufacturing Corporation, New York, N. Y. Spark-plugs. No. 131,489; May 18; v. 274; p. 604.

Hill, R. & J., Limited, London, England. Cigars, cigarettes, smoking-tobacco. No. 129,000; Jan. 20; v. 270; p. 473.

Hills Brothers Company, New York, N. Y. Cigarettes. No. 130,072; Apr. 6; v. 273; p. 180.

Hinck, John H., Brooklyn, N. Y. Candy. No. 130,514; Apr. 27; v. 273; p. 803.

Hinck, Otto H., New York, N. Y. Cotton piece goods. Nos. 132,166–9; June 15; v. 275; pp. 617–18.

Hind & Harrison Plush Co., The, New York and Clark Mills, N. Y. Pile-fabric piece goods. No. 134,968; Sept. 21; v. 278; p. 532.

Hind & Harrison Plush Co., New York and Clark Mills, N. Y. Pile-fabric piece goods. No. 135,695; Oct. 19; v. 279; p. 528.

Hinde & Dauch Paper Co., Sandusky, Delphos, and Cleveland, Ohio; Philadelphia, Pa.; New York, N. Y.; Muncie, Ind.; Gloucester, N. J., and Toronto, Canada. Cartons, boxes, shipping-envelops, &c. No. 130,185; Apr. 13; v. 273; p. 402.

Hindlemann, Harry, Inc., New York, N. Y. Men's suits and overcoats. No. 130,315; Apr. 20; v. 273; p. 621.

Hinds Luminous Compound Company, Hammersmith, London, England. Luminous hand for watches and clocks. No. 130,816; Apr. 20; v. 273; p. 621.

Hinkley, Albert, Newark, N. J. Stove-polish. No. 131,139; May 4; v. 274; p. 197.

Hipolite Company, St. Louis, Mo. Marshmallow powder and lemon, &c., flavoring extracts. No. 128,730; Jan. 13; v. 270; p. 339.

Hirsch, Friedman Co., Chicago, Ill. Garments for men and boys. No. 131,140; May 4; v. 274; p. 197.

Hirsch-Malgood Co. Inc., New York, N. Y. Combined glass spoons and sippers. No. 136,464; Nov. 2; v. 280; p. 182.

Hirsch, Max, Philadelphia, Pa. Wrist-watch straps. No. 133,702; Aug. 3; v. 277; p. 173.

Hirsch-Mirviss Mfg. Co., Minneapolis, Minn. Overalls, work coats, shirts, and trousers. No. 130,751; May 4; v. 274; p. 185.

Hirschy Company, The, Minneapolis, Minn. Clothes-washing machines and wringers. No. 136,031; Oct. 26; v. 279; p. 719.

Hiscox, Katherine E., Brooklyn, N. Y. Skin-lotions and wrinkle-removers. No. 138,463; Dec. 28; v. 281; p. 782.

Hispanic Textile Company, Inc., New York, N. Y. Textile fabrics. No. 136,032; Oct. 26; v. 279; p. 719.

Hitz, Jacobs & Company, New York, N. Y. Furniture. No. 138,024; Dec. 14; v. 281; p. 398.

Hob Manufacturing Co., New York, N. Y. Clothing for infants. No. 130,515; Apr. 27; v. 273; p. 803.

Hobart Manufacturing Company, The, Troy, Ohio. Electrically-driven beating and mixing machines. No. 131,490; May 18; v. 274; p. 604.

Hobart Manufacturing Company, The, Troy, Ohio. Electrically-driven beating and mixing machines. No. 133,143; July 13; v. 276; p. 402.

Hobart Manufacturing Company, The, Troy, Ohio. Electrically-driven beating and mixing machines. No. 136,831; Nov. 9; v. 280; p. 380.

Hobbs Storage Battery Company, Los Angeles, Calif. Electrical storage-batteries. No. 136,033; Oct. 26; v. 279; p. 719.

Hoberg, John, Co., The, Green Bay, Wis. Toilet-paper, paper toweling. No. 128,403; Jan. 6; v. 270; p. 180.

Hoberg, John, Co., The, Green Bay, Wis. Toilet and wrapping paper, paper napkins and toweling. No. 128,404; Jan. 6; v. 270; p. 181.

Hoberg, John, Co., Green Bay, Wis. Toilet-paper, &c. No. 128,731; Jan. 13; p. 270; p. 339.

Hoberg, John, Co., The, Green Bay, Wis. Toilet and tissue paper, paper toweling and napkins. No. 129,001; Jan. 20; v. 270; p. 473.

Hoberg, John, Co., The, Green Bay, Wis. Toilet-paper, paper towels, tissue-paper, &c. Nos. 135,696–9; Oct. 19; v. 279; p. 528.

Hoberg, John, Co., The, Green Bay, Wis. Toilet-paper. No. 136,034; Oct. 26; v. 279; p. 719.

Hoberg, John, Co., The, Green Bay, Wis. Toilet-paper. No. 136,465; Nov. 2; v. 280; p. 182.

Hoberg, John, Co., The, Green Bay, Wis. Toilet-paper, paper towels, tissue and wrapping paper, &c. No. 136,830; Nov. 9; v. 280; p. 380.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Hockaday, Frank W., Wichita, Kans. Permanent signs of plastic material. No. 131,907; May 25; v. 274; p. 836.
Hoddle Brothers, Detroit, Mich. Non-alcoholic beverages. No. 131,775; May 25; v. 274; p. 832.
Hodges, John R., San Antonio, Tex. Antibilious tablets. No. 138,464; Dec. 28; v. 281; p. 782.
Hodgson Oil Refining Co., Athens, Ga. Lard substitute. No. 133,261; July 20; v. 276; p. 591.
Hodshon Hat Co., Newark, Paterson, Passaic, and New Brunswick, N. J., and Wheeling, W. Va. Men's hats. No. 133,703; Aug. 3; v. 277; p. 173.
Hoefner, A., & Sons, Buffalo, N. Y. Soaps and washing-powders. No. 134,381; Aug. 31; v. 277; p. 972.
Hoehl, Bruno A., Wheeling, W. Va. Malt and hop extract for non-alcoholic beverages. No. 131,908; May 25; v. 274; p. 836.
Hoeble & Johnson, Inc., Boston, Mass. Candies. No. 128,732; Jan. 13; v. 270; p. 339.
Hoehne, Herman F., Kaukauna, Wis. Thistle-pulling machines. No. 130,516; Apr. 27; v. 273; p. 803.
Hoerner, William M., Harrisburg, Pa. Blank books in which saving-stamps will be pasted. No. 134,969; Sept. 21; v. 278; p. 532.
Hoffman, C. E., Company, Dallas, Tex. Hair-dressing having no quinin. No. 136,035; Oct. 26; v. 279; p. 719.
Hoffman, C. E., Company, Dallas, Tex. Preparations for the hair and toilet. No. 136,466; Nov. 2; v. 280; p. 182.
Hoffman, F., & Sons, Inc., Newark, N. J. Beverages. No. 136,036; Oct. 26; v. 279; p. 719.
Hoffman, Max, Boston, Mass. Overalls, jumpers, pants, and jackets. No. 138,259; Dec. 21; v. 281; p. 564.
Hofstra Manufacturing Company, Tulsa, Okla. Grease eradicators. No. 136,037; Oct. 26; v. 279; p. 719.
Hogan, John R., Philadelphia, Pa. Steel. No. 131,323; May 11; v. 274; p. 400.
Hogue, Charles L., Oakland, Calif. Eyeglasses. No. 134,245; Aug. 24; v. 277; p. 778.
Hohmann-Nelson Company, Eau Claire, Wis. Measuring and scientific appliances and parts therefor. No. 136,038; Oct. 26; v. 279; p. 719.
Holden-Leonard Company, New York, N. Y. Worsted and woolen textile fabrics in the piece. Nos. 132,967–8; July 6; v. 276; p. 202.
Holden-Leonard Company, New York, N. Y. Worsted and woolen textile fabrics in the piece. No. 133,428; July 27; v. 276; p. 769.
Holeproof Hosiery Co., Milwaukee, Wis. Hosiery. No. 136,467; Nov. 2; v. 280; p. 182.
Holguin, Ramona M., Pirtleville, Douglas, Ariz. Medical preparation for the relief of tuberculosis. No. 129,470; Feb. 24; v. 271; p. 679.
Holland Food Corporation, New York, N. Y. Condensed milk. No. 129,166; Jan. 27; v. 270; p. 614.
Holland, William W., Wood River, Ill. Base-metal alloys. No. 134,970; Sept. 21; v. 278; p. 532.
Hollander, A., & Son, Inc., Newark, N. J. Fur-skins. No. 135,700; Oct. 19; v. 279; p. 528.
Hollenbach, Charles, Chicago, Ill. Fresh sausage. No. 130,317; Apr. 20; v. 273; p. 621.
Hollingshead, W. R., Company, Binghamton, N. Y. Egg-substitute powder. No. 130,318; Apr. 20; v. 273; p. 621.
Hollingshead, W. R., Co., Binghamton, N. Y. Stove and shoe polishes, stove and shoe polishing outfits, and shoe-cleaner. No. 133,993; Aug. 10; v. 277; p. 388.
Hollingshead, W. R., Company, Binghamton, N. Y. Ironing-wax. No. 138,465; Dec. 28; v. 281; p. 782.
Hollinshed, Chas., Co. Inc., New York, N. Y. Choice winter yellow cotton-seed oil. Nos. 137,263–4; Nov. 23; v. 280; p. 794.
Hollinshed, Chas., Co. Inc., New York, N. Y. Choice winter yellow cotton-seed oil. No. 137,267; Nov. 23; v. 280; p. 794.
Hollingshed, Chas., Co., The, New York, N. Y. Choice refined deodorized soy-bean oil. No. 137,795; Dec. 7; v. 281; p. 196.
Hollingworth, Horace, Leicester, England. Boots, shoes, and slippers of leather, cloth, canvas, &c. No. 137,624; Nov. 30; v. 280; p. 998.
Holloway, Josephine, Philadelphia, Pa. Canned hair preparation. No. 136,039; v. 279; p. 719.
Holman, A. J., Company, Philadelphia, Pa. Particular edition of the New Testament. No. 137,265; Nov. 23; v. 280; p. 794.
Holman Manufacturing Company, Sheboygan, Wis. Clothing. No. 135,701; Oct. 19; v. 279; p. 528.
Holman, Russell, Minneapolis, Minn. Coffee substitute. No. 135,702; Oct. 19; v. 279; p. 528.
Holmes and Barnes, Ltd., Baton Rouge, La. Wheat-flour. No. 129,002; Jan. 20; v. 270; p. 473.
Holmes and Barnes, Ltd., East Baton Rouge, La. Wheat-flour. No. 131,996; June 8; v. 275; p. 414.
Holophane Glass Co., Inc., New York, N. Y. Lenses for automobile-headlights. No. 131,997; June 8; v. 275; p. 414.
Holophane Glass Company, Inc., New York, N. Y. Glass globes and reflectors for artificial light. No. 133,430; July 27; v. 276; p. 769.
Holquin, Ramona M., Douglas, Ariz. Remedy against dandruff, &c., and tonic to stimulate the growth of hair. No. 134,681; Sept. 14; v. 278; p. 356.
Holt & Company, New York, N. Y. Wheat-flour. No. 136,468; Nov. 2; v. 280; p. 182.
Holt Manufacturing Company, Stockton, Calif. Internal-combustion engines. No. 131,491; May 18; v. 274; p. 604.
Holt Manufacturing Company, The, Stockton, Calif. Machines and parts thereof. No. 134,172; Aug. 17; v. 277; p. 581.
Holt Manufacturing Company, The, Stockton, Calif. Wagons. No. 134,971; Sept. 21; v. 278; p. 532.
Holt Manufacturing Company, The, Stockton, Calif. Mobile gun-mounts. No. 135,703; Oct. 19; v. 279; p. 528.
Holt Manufacturing Company, Stockton, Calif. Wagons, trailers, radiators for use on motor-vehicles. No. 136,469; Nov. 2; v. 280; p. 182.
Holt Manufacturing Company, The, Stockton, Calif. Freighting outfits. No. 137,035; Nov. 16; v. 280; p. 583.
Holt Manufacturing Company, The, Stockton, Calif. Tractors, internal-combustion engines, &c. No. 137,266; Nov. 23; v. 280; p. 794.
Holton & Adams, New York, N. Y. Preparation for cleansing and beautifying the skin. No. 131,492; May 18; v. 274; p. 604.
Holyoke Braiding Company, Holyoke, Mass. Shoe-laces. Nos. 128,733–4; Jan. 13; v. 270; p. 389.
Holyoke Heater Company, Holyoke, Mass. Gas and oil hot-water heaters. No. 135,459; Oct. 12; v. 279; p. 343.
Homan-Hughes Company, Cincinnati, Ohio. Women's leather shoes. No. 130,757; May 4; v. 274; p. 186.
Homan-Hughes Company, The, Cincinnati, Ohio. Women's leather shoes. No. 137,912; Dec. 7; v. 281; p. 201.
Home Accessories Co., New York, N. Y. Cappers suitable for fastening metallic caps upon bottles, glasses, &c. No. 138,025; Dec. 14; v. 281; p. 398.
Home Comfort Company, The, St. Paul, Minn. Bread and cake boxes. No. 133,704; Aug. 3; v. 277; p. 173.
Home Distributing Co., St. Louis, Mo. Non-alcoholic beverage. No. 131,493; May 18; v. 274; p. 604.
Home-Made Noodle Co., Philadelphia, Pa. Noodles. No. 131,324; May 11; v. 274; p. 400.
Home Woolen Mills, Eaton Rapids, Mich. Knitted and woven automobile-robes, blankets, and cloth or fabric in the piece. No. 131,940; June 1; v. 275; p. 199.
Homer Furnace Company, Homer, Mich. Coal, wood, and gas furnaces. No. 136,832; Nov. 9; v. 280; p. 380.
Hommel, Wm. H., Sandusky, Ohio. Non-alcoholic wines and champagnes. No. 133,431; July 27; v. 276; p. 769.
Hon, Stanislaus J., South Bend, Ind. Medicinal preparation for rheumatism. No. 132,705; June 29; v. 275; p. 1016.
Hones, Charles A., Brooklyn, N. Y. Gas soldering-furnaces, soft-metal furnaces, burners, and torches. No. 134,382; Aug. 31; v. 277; p. 972.
Hood, Fitz-James, Bartow, Fla. Card games. No. 132,969; July 6; v. 276; p. 202.
Hood Rubber Company, Watertown, Mass. Rubber cushion and pneumatic tires and tubes and tire-repair patches or reinforcements. No. 134,383; Aug. 31; v. 277; p 972.
Hood Tire Co. Inc., Watertown, Mass. Rubber vehicle-tires. No. 134,384; Aug. 31; v. 277; p. 972.
Hook, Evan W., & Co., Inc., Baltimore, Md. Bottled cherries, maraschino style. No. 130,319; Apr. 20; v. 273; p. 621.
Hoosier Chemical Company, Mount Carmel, Ill. Stove-polish. No. 134,682; Sept. 14; v. 278; p. 356.
Hooton Cocoa Company, Newark, N. J. Milk-chocolate bars. No. 132,706; June 29; v. 275; p. 1016.
Hooven & Allison Company, Xenia, Ohio. Fiber ropes and twines. Nos. 130,752–5; May 4; v. 274; p. 185.
Hooven, Owens, Rentschler Company, The, Hamilton, Ohio. Engines and sugar rolling mills, &c. No. 138,626; Dec. 14; v. 281; p. 398.
Hooven, Paul M., New York, N. Y. Typewriters. No. 136,040; Oct. 26; v. 279; p. 720.
Hoover Medicine Co., Des Moines, Iowa. Remedy for rheumatism, neuritis, &c. No. 128,735; Jan. 13; v. 270; p. 389.
Hoover, Roy H., Freeport, Ill. Fertilizer compound. No. 135,460; Oct. 12; v. 279; p. 343.
Hoover Spring Company, San Francisco, Calif. Automobile accessories. No. 137,004; Nov. 9; v. 280; p. 387.
Hoover Suction Sweeper Company, New Berlin, Ohio. Electric suction-sweepers. No. 130,756; May 4; v. 274; p. 186.
Hoover Suction Sweeper Company, North Canton, Ohio. Electric suction-sweepers. No. 132,170; June 15; v. 275; p. 618.
Hope Knitting Company, Cohoes, N. Y. Underwear for men and women. No. 134,683; Sept. 14; v. 278; p. 356.
Hope Webbing Company, Pawtucket, R. I. Belts, binding, textile braiding, and tape. Nos. 130,186–90; Apr. 13; v. 273; p. 402.
Hope Webbing Company, Pawtucket, R. I. Narrow belts and narrow binding for garments, belts for supporting garments, &c. Nos. 130,517–21; Apr. 27; v. 273; p. 803.
Hope Webbing Company, Pawtucket, R. I. Webbing in the piece. No. 133,432; July 27; v. 276; p. 769.
Hopedale Manufacturing Company, Milford, Mass. Looms, loom-temples, and parts and attachments for looms. No. 135,461; Oct. 12; v. 279; p. 343.
Hopkins, J. L., & Co., New York, N. Y. Synthetic Venice turpentine. No. 137,036; Nov. 16; v. 280; p. 583.

Digitized by Google

Horlacher Brewing Co., Allentown, Pa. Non-alcoholic beverages and syrups for making same. No. 131,776; May 25; v. 274; p. 832.
Horlick, William, Jr., Racine, Wis. Malt beverage. No. 131,998; June 8; v. 275; p. 414.
Horlick's Food Company. Racine, Wis. Preparations for the modification of milk. No. 133,994; Aug. 10; v. 277; p. 388.
Hormel Milling Company, Austin, Minn. Wheat-flour. No. 134,246; Aug. 24; v. 277; p. 778.
Hornor-Gaylord Company, Clarksburg, W. Va. Wheat-flour. No. 131,141; May 4; v. 274; p. 197.
Hornung, George J., West New York, N. J. Liquid preparation for the treatment of certain named diseases and affections. No. 132,413; June 22; v. 275; p. 819.
Hornung, Theodore, Birmingham, England. Steel pens. No. 129,746; Mar. 9; v. 272; p. 364.
Horowitz Bros. & Margareten, Inc., New York, N. Y. Cakes or biscuits called matzohs. No. 131,941; June 1; v. 275; p. 199.
Horowitz, Joseph, & Sons, Inc., New York, N. Y. Work-shirts. No. 128,736; Jan. 13; v. 270; p. 339.
Horwitz, S., & Sons, New York, N. Y. Clothing. No. 138,466; Dec. 28; v. 281; p. 782.
Horton Manufacturing Company, The, Bristol, Conn. Fishing-lines. No. 134,972; Sept. 21; v. 278; p. 532.
Horton Manufacturing Co., The, Bristol, Conn. Fishing-lines. No. 135,263; Sept. 28; v. 278; p. 703.
Horton Manufacturing Co., The, Bristol, Conn. Fishing-lines. No. 135,462; Oct. 12; v. 279; p. 843.
Hoskins Manufacturing Company, Detroit, Mich. Alloys. Nos. 128,405–6; Jan. 6; v. 270; p. 181.
Hoskins Manufacturing Company, Detroit, Mich. Alloys containing nickel and aluminum. Nos. 128,737–8; Jan. 13; v. 270; p. 339.
Hoster-Columbus Company, Inc., Columbus, Ohio. Non-alcoholic cereal maltless beverage sold as a soft drink. No. 133,705; Aug. 3; v. 277; p. 173.
Hotchkiss, E. H., Company, Norwalk, Conn. Devices for uniting sheets of paper with metallic fasteners, hand stapling-machines, and staples. No. 137,913; Dec. 7; v. 281; p. 201.
Houghton, E. F., & Co., Philadelphia, Pa. Oil compound for use in cutting metals, &c. No. 131,777; May 25; v. 274; p. 832.
Houghton, E. F., & Co., Philadelphia, Pa. Oil rust-preventive. No. 132,171; June 15; v. 275; p. 618.
Houghton, E. F., & Co., Philadelphia, Pa. Leather belting. No. 137,625; Nov. 30; v. 280; p. 998.
Houghton, E. F., & Co., Philadelphia, Pa. Leather belting. No. 138,467; Dec. 28; v. 281; p. 782.
Houlton, William L., Uneedus Farms, La. Dairy products—butter. No. 129,003; Jan. 20; v. 270; p. 478.
House of Finkelstein, Incorporated, The, St. Louis, Mo. Outer garments for women and girls. No. 138,240; Dec. 21; v. 281; p. 563.
House, George V., New York, N. Y. Calendars. No. 137,268; Nov. 23; v. 280; p. 794.
Hovermale, Howard B., Brunswick, Md. Laxative tablet. No. 131,494; May 18; v. 274; p. 604.
Hovey, Gertrude B., Springfield, Mass. Aprons for women's dress. No. 135,463; Oct. 12; v. 279; p. 843.
Howard Bros, Chemical Co., Buffalo, N. Y. Soap. No. 130,073; Apr. 6; v. 273; p. 180.
Howard Bros. Chemical Co., Buffalo, N. Y. Soap. No. 132,172; June 15; v. 275; p. 618.
Howard-Hulme-Dittrich Shoe Co., Carthage, Mo. Children's, misses', and girls' leather shoes and slippers. No. 133,433; July 27; v. 276; p. 769.
Howard, Joseph O., Evanston, Ill. Toy aeroplanes. No. 130,522; Apr. 27; v. 273; p. 803.
Howard, R. S., Company, New York, N. Y. Pianos and player-pianos. No. 129,004; Jan. 20; v. 270; p. 474.
Howe, J. W., & Son, Hamilton, Ohio. Preparation for the treatment of certain named ailments. No. 129,747; Mar. 9; v. 272; p. 364.
Howell and Ellis, Denver, Colo. Ointment for hemorrhoids and other rectal troubles and salve for burns, &c. No. 132,707; June 29; v. 275; p. 1016.
Howell, Field & Goddard, Inc., Long Island City, N. Y. Shingles. No. 131,909; May 25; v. 274; p. 836.
Howell, Henry M., New York, N. Y. Germicide. No. 134,973; Sept. 21; v. 278; p. 532.
Howell, Singleton G., Dallas, Tex. Weekly publications. No. 135,704; Oct. 19; v. 279; p. 528.
Howell, W. H. Company, The, Geneva, Ill. Fire-pumps. No. 134,318; Aug. 24; v. 277; p. 782.
Howes, S., Co., Inc., Silver Creek, N. Y. Machinery for certain named purposes. No. 130,758; May 4; v. 274; p. 186.
Howland and Dewey Company, Los Angeles, Calif. Photographic prints. No. 133,434; July 27; v. 276; p. 769.
Howson, Henry, Glenmore, Pa. Corn products, oatmeal, wheat-flour, and prepared feeds for cattle. No. 132,971; July 6; v. 276; p. 202.
Hoyland Flour Mills Company, Kansas City, Mo. Wheat-flour. No. 138,027; Dec. 14; v. 281; p. 398.
Hoyt, Vance J., Los Angeles, Calif. Baby food. No. 136,470; Nov. 2; v. 280; p. 182.
Hubbell, Harvey, Inc., Bridgeport, Conn. Convertible plug-caps. Nos. 138,020–1; Dec. 14; v. 281; p. 398.
Hubbell, Harvey, Incorporated, Bridgeport, Conn. Electrical lighting and wiring fixtures. No. 130,746; May 4; v. 274; p. 185.
Hubbell-Plummer, Beatrice, Los Angeles, Calif. Smocks and aprons. No. 133,783; Aug. 3; v. 277; p. 176.
Huber, Joseph M., New York, N. Y. Printing-inks. No. 134,974; Sept. 21; v. 278; p. 532.
Hubner, Louise S., Baltimore, Md. Ladies' and misses' gowns, dresses, suits, and lingerie. No. 137,270; Nov. 23; v. 280; p. 794.
Hudford Company of Chicago, Chicago, Ill. Motor-trucks, conversion units for making motor-trucks from automobiles. No. 135,464; Oct. 12; v. 279; p. 843.
Hudnut, Richard, New York, N. Y. Perfume, toilet water, sachet, talcum, face, and bath powders, cologne, &c. No. 134,684; Sept. 14; v. 278; p. 356.
Hudnut, Richard, New York, N. Y. Toilet preparations. No. 135,705; Oct. 19; v. 279; p. 528.
Hudnut, Richard, New York, N. Y. Toilet preparations. No. 138,468; Dec. 28; v. 281; p. 782.
Hudson Belting Company, Worcester, Mass. Flat, twisted and round leather belting. No. 136,471; Nov. 2; v. 280; p. 183.
Hudson Coffee Mills, Inc., New York, N. Y. Tea. Nos. 136,041–2; Oct. 26; v. 279; p. 720.
Hudson & Kohn Co., Greenville, S. C. Cotton goods. No. 129,471; Feb. 24; v. 271; p. 679.
Huebshman, Henry M., & Bro., New York, N. Y. Serges, broadcloth, worsted, and woolen cloths, piece form. No. 129,748; Mar. 9; v. 272; p. 364.
Huff, Ellsworth A., Warsaw, Ind. Preparation used as an external application for pains, aches, &c. No. 129,749; Mar. 9; v. 272; p. 364.
Huggins Candy Co., Nashville, Tenn. Candy. No. 135,706; Oct. 19; v. 279; p. 528.
Hugh J. McMackin Co., Boston, Mass. Flavors for making soft drinks. No. 138,057; Dec. 14; v. 281; p. 399.
Hughes, Clement L., Canton, Ill. Antiseptic tablets. No. 129,289; Feb. 10; v. 271; p. 356.
Hughes & Company, (Export Corporation,) New York, N. Y. Cotton, woolen, and silk goods in the piece, ribbons in the piece. No. 132,414; June 22; v. 275; p. 819.
Hughes & Curren Co., Inc., Rochester, N. Y. Tops, fenders, and clutch-hooks as accessories for tractors. No. 134,173; Aug. 17; v. 277; p. 581.
Hughes, Emanuella M., New York, N. Y. Medicinal treatment for skin disease. No. 135,465; Oct. 12; v. 279; p. 843.
Hughes, Henry, & Son, Ltd., London, England. Navigating, philosophical, &c., instruments and appliances. No. 137,796; Dec. 7; v. 281; p. 196.
Hugo Brand Leather Co. Inc., New York, N. Y. Leather, hides, skins. No. 129,290; Feb. 10; v. 271; p. 356.
Hugo, John, Mfg. Co., The, New Haven, Conn. Electrical testing devices. No. 137,271; Nov. 23; v. 280; p. 794.
Hulbert Oil & Grease Co., The, Philadelphia, Pa. Substitute for linseed-oil. No. 133,262; July 20; v. 276; p. 591.
Hulbert Oil & Grease Co., The, Philadelphia, Pa. Lubricating oils and greases. No. 137,260; Dec. 21; v. 281; p. 564.
Humana Company, Newark, N. J. Automatic feeder attachments for Chandler & Price printing-presses. No. 137,272; Nov. 23; v. 280; p. 794.
Humphrey, Ira V., Philadelphia, Pa. Rubber tires. No. 129,750; Mar. 9; v. 272; p. 364.
Humphreys Homeopathic Medicine Co., New York, N. Y. Homeopathic medicine for treatment of certain named diseases and affections. Nos. 132,415–16; June 22; v. 275; p. 819.
Humphreys Homeopathic Medicine Co., New York, N. Y. Witch-hazel and ointment containing witch-hazel. No. 132,417; June 22; v. 275; p. 819.
Hunt Brothers Packing Company, San Francisco, Calif. Canned fruits. No. 136,472; Nov. 2; v. 280; p. 183.
Hunt, C. Howard, Pen Company, Camden, N. J. Steel pens. No. 132,708; June 29; v. 275; p. 1016.
Hunt, Carolyn M., Los Angeles, Calif. Girls' cotton wash-dresses and rompers. No. 135,264; Sept. 28; v. 278; p. 703.
Hunt Chemical Company, Jacksonville, Fla. Stainless croup and pneumonia salve. No. 134,685; Sept. 14; v. 278; p. 356.
Hunt Chemical Company, Jacksonville, Fla. Cold, croup, and pneumonia salve. No. 134,686; Sept. 14; v. 278; p. 356.
Hunt, Philip A., Company, New York, N. Y. Gold, metal, and composition leaf. No. 131,495; May 18; v. 274; p. 604.
Hunt, Philip A., Company, New York, N. Y. Chemicals. No. 136,043; Oct. 26; v. 279; p. 720.
Hunter, Frances E., Dallas, Tex. Lung medicine. No. 131,496; May 18; v. 274; p. 604.
Hunter Mfg. & Com. Co., New York, N. Y. Cotton piece goods. No. 133,995; Aug. 10; v. 277; p. 388.
Hunter Pressed Steel Co., Lansdale borough, Pa. Grease-cups. No. 134,174; Aug. 17; v. 277; p. 581.
Huntington Chemical Company, Huntington, Ind. Soap. No. 132,709; June 29; v. 275; p. 1016.
Huntington Shoe and Leather Company, Huntington, Ind. Boots and shoes of leather, skins, hides, &c. No. 130,320; Apr. 20; v. 273; p. 621.
Hunvald, Henry, New York, N. Y. Women's outer garments, except hats. No. 133,435; July 27; v. 276; p. 769.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Hurd, George B. & Co., New York, N. Y. Writing-paper and envelops. No. 132,178; June 15; v. 275; p. 618.
Hurley Machine Company, Cicero, Ill. Laundry-ironing machines. No. 137,797; Dec. 7; v. 281; p. 196.
Hurley, William J., Chicago, Ill. Tonic for the bowel action and improving the digestion. No. 134,687; Sept. 14; v. 278; p. 356.
Hurley, William J., Chicago, Ill. Tonic for aiding the digestive organs and improving the appetite. No. 134,688; Sept. 14; v. 278; p. 356.
Hurley, William J., Chicago, Ill. Preparation for treatment of sore throat. No. 136,473; Nov. 2; v. 280; p. 183.
Huron Portland Cement Company, Detroit, Mich. Portland cement. No. 136,833; Nov. 9; v. 280; p. 380.
Hurwitz Brothers, New York, N. Y. Infants' and children's dresses. No. 138,261; Dec. 21; v. 281; p. 564.
Huss Bros. Phonograph & Piano Co., The, Cincinnati, Ohio. Phonographs. No. 131,778; May 25; v. 274; p. 832.
Hut, John, Montreal, Quebec, Canada. Medical preparations for epilepsy. No. 136,044; Oct. 26; v. 279; p. 720.
Hutchings, George B., assignor to Rado-Valv Corporation, Richmond, Va. Valves for indicating when the water is boiling in the radiators of automobiles. No. 137,798; Dec. 7; v. 281; p. 196.
Hutchinson, James F., Rochester, N. Y. Telephone-index blank. No. 134,975; Sept. 21; v. 278; p. 532.
Hutchison Office Specialties Co. Inc., New York, N. Y. Staple forming and affixing machines, and parts. No. 130,191; Apr. 13; v. 273; p. 402.
Huth & Co., New York, N. Y. Cutlery. No. 130,759; May 4; v. 274; p. 186.
Huth, Paul, San Francisco, Calif. Cholera-powder for live stock. No. 129,472; Feb. 24; v. 271; p. 679.
Hutnikow, Theodore, Brooklyn, N. Y. Waterproof handbags and purses. No. 129,005; Jan. 20; v. 270; p. 474.
Hyco Fuel Products Corpn., New York, N. Y. Self-generating gas-burners. No. 134,385; Aug. 31; v. 277; p. 972.
Hyde, Geo. E., Campbell, Calif. Fresh, dried, canned, and preserved fruits. No. 136,474; Nov. 2; v. 280; p. 183.
Hydra Specialties Company, The, Philadelphia, Pa. Dyes. No. 138,186; Dec. 14; v. 281; p. 405.
Hydraulic Pressed Steel Company, Cleveland, Ohio. House organ issued monthly. No. 129,751; Mar. 9; v. 272; p. 364.
Hygeia Beverage Co., Natick, Mass. Non-alcoholic beverages and syrups. No. 131,497; May 18; v. 274; p. 604.
Hygeia Beverage Co., The Natick, Mass. Non-alcoholic, non-cereal, maltless beverages. No. 132,174; June 15; v. 275; p. 618.
Hygienic Fibre Company, Versailles, Conn., and New York, N. Y. Absorbent cotton, surgical gauze, gauze bandages. No. 130,074; Apr. 6; v. 273; p. 180.
Hygrade Shoe Works, New York, N. Y. Children's shoes. No. 129,473; Feb. 24; v. 271; p. 679.
Hyland, Michael J., Rochester, N. Y. Preparations used in embalming. No. 131,325; May 11; v. 274; p. 400.
Hyman Bauman & Co., New York, N. Y. Handkerchiefs. No. 131,408; May 18; v. 274; p. 601.
Hyman, Henry, & Co. Inc., New York, N. Y. Portable flash-lights and flash-light cases. No. 132,175; June 15; v. 275; p. 618.
Hyndman Roofing Company, The, Cincinnati, Ohio. Metal roofing and siding. No. 136,834; Nov. 9; v. 280; p. 380.
I. C. T. Products Co., assignor to I. C. T. Products Co., Indianapolis, Ind. Concentrated tea syrup for making tea. No. 132,176; June 15; v. 275; p. 618.
Iannella, Anna, Chicago, Ill. Candy. No. 130,321; Apr. 20; v. 273; p. 621.
Ideal Coated Paper Company, Brookfield, Mass. Coated paper. Nos. 129,752–3; Mar. 9; v. 272; p. 364.
Ideal Cocoa & Chocolate Co., Lititz, Pa., and New York, N. Y. Chocolate. No. 131,999; June 8; v. 275; p. 414.
Ideal Cocoa & Chocolate Co., Lititz, Pa., and New York, N. Y. Candy confections, cocoas, chocolate, and chocolate products. Nos. 132,710–11; June 29; v. 275; p. 1016.
Ideal Cocoa & Chocolate Co., Lititz, Pa., and New York, N. Y. Chocolate. No. 132,712; June 29; v. 275; p. 1016.
Ideal Cocoa & Chocolate Co., Lititz, Pa., and New York, N. Y. Cocoa-butter for medicinal use. No. 138,469; Dec. 28; v. 281; p. 782.
Ideal Disinfectant Company, New York, N. Y. Odorizing and disinfectant compounds. No. 136,045; Oct. 26; v. 279; p. 720.
Ideal Hosiery Co. Inc., Elizabeth City, N. C. Hosiery. No. 129,474; Feb. 24; v. 271; p. 679.
Ideal Paste & Chemical Works, Cleveland, Ohio. Adhesive paste. Nos. 131,779–80; May 25; v. 274; p. 832.
Ideal Paste & Chemical Works, Cleveland, Ohio. Adhesive paste. No. 132,972; July 6; v. 276; p. 202.
Ideal Roller Company, Chicago, Ill. Rollers for certain named machines. No. 130,760; May 4; v. 274; p. 186.
Ideal Window Pulley Corporation, Brooklyn, N. Y. Window-pulleys. No. 137,799; Dec. 7; v. 281; p. 196.
Ideal Yeast Company, Cedar Rapids, Iowa. Yeast. No. 136,475; Nov. 2; v. 280; p. 183.
Ignition Plug Co., The, Dayton, Ohio. Spark-plugs. No. 135,707; Oct. 19; v. 279; p. 529.
Iles, Albert S., Birmingham, England. Table ball-game. No. 134,690; Sept. 14; v. 278; p. 356.
Ilex Optical Company, Rochester, N. Y. Photographic shutters and lenses. No. 129,167; Jan. 27; v. 270; p. 614.
Ilg Electric Ventilating Company, Chicago, Ill. Electrically-operated fans and blowers. No. 134,976; Sept. 21; v. 278; p. 532.
Ilg Electric Ventilating Company, Chicago, Ill. Electrically-operated heating and ventilating units. No. 134,977; Sept. 21; v. 278; p. 532.
Illinois Auto Truck Co., Chicago, Ill. Motor-trucks and trailers. No. 138,028; Dec. 14; v. 281; p. 398.
Illinois Battery Steamer Co., Peoria, Ill. Battery-steamers, battery steamers and stills, stills, &c. No. 137,800; Dec. 7; v. 281; p. 196.
Illinois Valley Sash & Door Company, Peru, Ill. Construction material. Nos. 137,801–2; Dec. 7; v. 281; p. 196.
Imperial Belting Company, Chicago, Ill. Rubber and duck belting, and hose, rubber, flax, and asbestos machinery packing. No. 130,192; Apr. 13; v. 273; p. 402.
Imperial Belting Company, Chicago, Ill. Belting, hose, machinery packing, &c. No. 133,144; July 13; v. 276; p. 402.
Imperial Belting Company, Chicago, Ill. Belting, hose, machinery packing, and non-metallic tires. No. 133,145; July 13; v. 276; p. 402.
Imperial Belting Company, Chicago, Ill. Belting, hose, packing. Nos. 138,029–31; Dec. 14; v. 281; p. 398.
Imperial Candy Co., Seattle, Wash. Candy. No. 137,273; Nov. 23; v. 280; p. 794.
Imperial Electric Co., The, Akron, Ohio. Electrical machinery. No. 132,973; July 6; v. 276; p. 202.
Imperial Electrical Co., Union City, Ind. Electric milk and cream testers. No. 131,498; May 18; v. 274; p. 604.
Imperial Garment Co., Inc., New York, N. Y. Boys' suits and overcoats. No. 130,523; Apr. 27; v. 273; p. 808.
Imperial Knitting Co., Milwaukee, Wis. Sweaters, shawls, scarfs, &c. No. 133,436; July 27; v. 276; p. 769.
Imperial Merchandise Company, Perry, Ohio. Toilet-paper. Nos. 131,781–2; May 25; v. 274; p. 832.
Imperial Varnish and Color Company, Limited. The, Toronto, Ontario, Canada. Paints and painters' materials. No. 133,263; July 20; v. 276; p. 591.
Import Drug Specialties Company, The, Cleveland, Ohio. Liquid shoe dressing and cleanser. No. 132,713; June 29; v. 275; p. 1016.
Imrie, Carl B., Brooklyn, N. Y. Deodorants and preparations for the relief of excessive perspiration. No. 134,689; Sept. 14; v. 278; p. 356.
Independent Brewing Company of Pittsburgh, Pittsburgh, Pa. Malt beverage. Nos. 131,326–7; May 11; v. 274; p. 400.
Independent Brewing Company of Pittsburgh, Pittsburgh, Pa. Beverages containing malt. No. 136,476; Nov. 2; v. 280; p. 183.
Independent Pneumatic Tool Company, Chicago, Ill. Hose-couplings. No. 129,168; Jan. 27; v. 270; p. 614.
Independent Starch Company, New York, N. Y. Corn-starch, &c. No. 129,363; Feb. 17; v. 271; p. 508.
India Refining Company, Philadelphia, Pa. Cocoanut-oil. No. 128,739; Jan. 13; v. 270; p. 339.
India Refining Company, Philadelphia, Pa. Cocoanut-oil. No. 131,499; May 18; v. 274; p. 604.
Indian Packing Company, Green Bay, Wis. Foods and ingredients of foods. No. 129,754; Mar. 9; v. 272; p. 364.
Indian Packing Company, Green Bay, Wis. Meat products. Nos. 130,524–5; Apr. 27; v. 273; p. 803.
Indiana Board & Filler Company, Decatur, Ind. Egg-cases, egg-case fillers, cushion-fillers, &c. No. 130,761; May 4; v. 274; p. 186.
Indiana Brass Company, The, Frankfort, Ind. Flush-tank and water-closet fittings. No. 136,046; Oct. 26; v. 279; p. 720.
Indiana Indestructible Paint Co., Chicago, Ill. Paint. Nos. 138,263–4; Dec. 21; v. 281; p. 564.
Indiana Portland Cement Company, Indianapolis, Ind. Portland cement. No. 132,177; June 15; v. 275; p. 618.
Indiana Truck Corporation, Marion, Ind. Motor-trucks. No. 134,691; Sept. 14; v. 278; p. 356.
Indianapolis Brewing Co., The, Indianapolis, Ind. Non-intoxicating beverage. No. 132,418; June 22; v. 275; p. 819.
Individual Drinking Cup Company, Inc., New York, N. Y. Catamenial bandages. No. 130,762; May 4; v. 274; p. 186.
Industrial Garment Co., Chicago, Ill. Outer work-shirts and overalls. No. 132,419; June 22; v. 275; p. 819.
Industrial Paint Company, Fair Oaks borough, Pa. Dry, paste, and ready-mixed paints. No. 137,626; Nov. 30; v. 280; p. 998.
Ingersoll-Rand Company, Jersey City, N. J., and New York, N. Y. Core-drills. No. 128,407; Jan. 6; v. 270; p. 181.
Ingersoll-Rand Company, Jersey City, N. J., and New York, N. Y. Fluid-pressure-operated drilling-machines. No. 131,328; May 11; v. 274; p. 400.
Ingersoll-Rand Company, Jersey City, N. J., and New York, N. Y. Rock-drills. No. 133,146; July 13; v. 276; p. 402.

Digitized by Google

Ingersoll-Rand Company, Jersey City, N. J., and New York, N. Y. Cutlery, machinery, and tools and parts thereof. No. 133,147; July 13; v. 276; p. 402.

Ingersoll-Rand Company, Jersey City, N. J., and New York, N. Y. Chilled-steel globules used as the cutting medium with core-drills. No. 136,477; Nov. 2; v. 280; p. 183.

Ingram, Frederick F., Company, Detroit, Mich. Medicinal and toilet preparations. No. 136,478; Nov. 2; v. 280; p. 183.

International Agricultural Corporation, New York, N. Y. Fertilizers. No. 137,627; Nov. 30; v. 280; p. 998.

International Braid Company, Providence, R. I. Shoe, corset, and underwear lacings of linen, silk, or worsted. No. 133,706; Aug. 3; v. 277; p. 173.

International Button Co., Rochester, N. Y. Buttons. No. 130,763; May 4; v. 274; p. 186.

International Carbon Products Company, New York, N. Y. Flake graphite. No. 130,764; May 4; v. 274; p. 186

International Coal Products Corporation. (See Smith, Charles H., assignor.)

International Committee of Young Men's Christian Associations, New York, N. Y. Printed books, booklets, and pamphlets. No. 137,803; Dec. 7; v. 281; p. 196.

International Company, The, Baltimore, Md. Milk powder. No. 135,708; Oct. 19; v. 279; p. 529.

International Company, Baltimore, Md. Baking-powder. No. 138,470; Dec. 28; v. 281; p. 783.

International Conduit Corporation, New York, N. Y. Conduits and fittings. No. 134,500; May 18; v. 274; p. 604.

International Consolidated Chemical Corporation, Inc., New York, N. Y. Anti-acid carminative stimulant to the stomach and digestive tract. No. 137,274; Nov. 23; v. 280; p. 794.

International Consolidated Chemical Corp., New York, N. Y. Aspirin No. 138,471; Dec. 28; v. 281; p. 783.

International Cork Company, Brooklyn, N. Y. Cork. No. 130,765; May 4; v. 274; p. 186.

International Cork Company, Brooklyn, N. Y. Composition floor-tiles of linoleum or other material, cork carpet, &c. No. 132,178; June 15; v. 275; p. 618.

International Cork Company, Brooklyn, N. Y. Cork disks, washers, and gaskets. No. 134,978; Sept. 21; v. 278; p. 532.

International Cork Company, Brooklyn, N. Y. Ring and body life-preservers and swimming-floats. No. 137,804; Dec. 7; v. 281; p. 196.

International Corset Company, Aurora, Ill. Corsets. No. 131,142; May 4; v. 274; p. 197.

International Cotton Mills, Boston, Mass. Crash goods. No. 131,783; May 25; v. 274; p. 832.

International Coupler Company, Pittsburgh, Pa. Plumbing and steam-fitting supplies. No. 133,148; July 13; v. 276; p. 402.

International Duplex Coat Co., Inc., New York, N. Y. Reversible leather coat. No. 130,766; May 4; v. 274; p. 186.

International Feature Service, Inc., New York, N. Y. Series of comic drawings or pictures. Nos. 133,437–8; July 27; v. 276; p. 769.

International Film Service Co., Inc, New York, N. Y. Motion-picture films. No. 133,707; Aug. 3; v. 277; p. 174.

International Fur Exchange, St. Louis, Mo. Furs, skins, hides, and pelts. No. 137,628; Nov. 30; v. 280; p. 998.

International Handkerchief Mfg. Co., New York, N. Y. Handkerchiefs. No. 129,755; Mar. 9; v. 272; p. 364.

International Handkerchief Mfg. Co., The, New York, N. Y. Handkerchiefs. No. 133,439; July 27; v. 276; p. 769.

International Harvester Company, Chicago, Ill. Rope, cord, twine, and binder-twine. No. 130,075; Apr. 6; v. 273; p. 180.

International Harvester Company, Chicago, Ill. Rope, cord, twine, binder-twine. No. 132,974; July 6; v. 276; p. 202.

International Harvester Company, Chicago, Ill. Rope, cord, twine, and binder-twine. No. 135,709; Oct. 19; v. 279; p. 529.

International Harvester Company, Chicago, Ill. Plows and parts thereof. No. 135,710; Oct. 19; v. 279; p. 529.

International Harvester Company, Chicago, Ill. Cultivators and separate parts for each of said machines. No. 136,047; Oct. 26; v. 279; p. 720.

International Harvester Company, Chicago, Ill. Internal-combustion engines, tractors, &c. No. 137,805; Dec. 7; v. 281; p. 196.

International Harvester Company, Chicago, Ill. Cultivators and separate parts thereof. No. 138,032; Dec. 14; v. 281; p. 398.

International Insulation Company, International Falls, Minn. Wood-pulp boards and blocks. No. 132,000; June 8; v. 275; p. 414.

International Mailing Tube and Wrapper Co., Brooklyn, N. Y. Mailing-receptacles. No. 137,806; Dec. 7; v. 281; p. 196.

International Manufacturing Company of Texas, Dallas, Tex. Butter-churns and parts thereof. No. 131,501; May 18; v. 274; p. 604.

International Merchants, Incorporated, San Francisco, Calif. Butter. No. 130,322; Apr. 20; v. 273; p. 621.

International Milling Company, New Prague, Minn. Wheat-flour. No. 131,910; May 25; v. 274; p. 836.

International Milling Company, New Prague, Minn. Wheat-flour. No. 132,001; June 8; v. 275; p. 414.

International Milling Company, New Prague, Minn. Wheat-flour. No. 132,179; June 15; v. 275; p. 618.

International Nickel Co., Constable Hook, N. J. Nickel and alloys containing nickel. No. 128,408; Jan. 6; v. 270; p. 181.

International Packing Corporation of California, Los Angeles, Calif. Canned fish. No. 138,033; Dec. 14; v. 281; p. 398.

International Preserving Corporation, New York, N. Y. Preserved or prepared foods. No. 130,526; Apr. 27; v. 273; p. 803.

International Salt Co., New York, N. Y. Table-salt. No. 134,979; Sept. 21; v. 278; p. 532.

International Sugar Feed Co., Minneapolis, Minn. Mixed grain for chick and poultry feed, grain products, and concentrates for hog and cattle feed. No. 132,714; June 29; v. 275; p. 1016.

International Sugar Feed Co., Minneapolis, Minn. Dairy-feed. No. 133,996; Aug. 10; v. 277; p. 388.

International Sugar Feed Co., Minneapolis, Minn. Pig-meal. No. 133,997; Aug. 10; v. 277; p. 388.

International Sugar Feed Co., Minneapolis, Minn. Calf-meal. No. 133,998; Aug. 10; v. 277; p. 388.

International Sugar Feed Co., Minneapolis, Minn. Hog feed. No. 135,466; Oct. 12; v. 279; p. 343.

International Sugar Feed Co., Minneapolis, Minn. Poultry feed, chick size. No. 135,467; Oct. 12; v. 279; p. 343.

International Vegetable Oil Company, Atlanta, Ga. Foods. No. 136,479; Nov. 2; v. 280; p. 183.

International Worsted Mills, Methuen, Mass. Lightweight fancy worsted cloth in the piece. No. 134,980; Sept. 21; v. 278; p. 532.

Interstate Commerce Company, Richmond, Va. Non-alcoholic, non-cereal beverages. No. 134,862; Sept. 14; v. 278; p. 363.

Interstate Cotton Oil Refining Company, Sherman, Tex. Shortening for cooking and oil for cooking and salad purposes. No. 133,999; Aug. 10; v. 277; p. 388.

Interstate Stock Remedy Company, Cedar Rapids, Iowa. Medicine for hog-cholera. No. 129,756; Mar. 9; v. 272; p. 364.

Intravenous Products Company, The, Denver, Colo. Preparations used for intramuscular, intravenous, subcutaneous, or local administration. No. 131,502; May 18; v. 274; p. 604.

Inyo Talc Company, Los Angeles, Calif. Talc. Nos. 135,468–9; Oct. 12; v. 279; p. 343.

Ionite Storage Battery Co., Worcester, Mass. Electric batteries and parts thereof. No. 134,981; Sept. 21; v. 278; p. 532.

Iowa Skirt Manufacturing Company, The, Waterloo, Iowa. Aprons, house-dresses, petticoats, and children's garments. No. 132,180; June 15; v. 275; p. 618.

Irene, Madame, New York, N. Y. Corsets. No. 129,475; Feb. 24; v. 271; p. 679.

Irvin, Jewell & Vinsom Company, The, Dayton, Ohio. Paste and ready-mixed paints, paint-oils, and varnishes for metal surfaces. Nos. 138,265–6; Dec. 21; v. 281; p. 564.

Irvin & Remson, Atlanta, Ga. Medicine used in the treatment of headache. No. 136,048; Oct. 26; v. 279; p. 720.

Irvin-Smith Company, Chicago, Ill. Box parlor game. No. 130,101; Apr. 6; v. 273; p. 181.

Irving Drew Co., Portsmouth, Ohio. Footwear. No. 129,169; Jan. 27; v. 270; p. 615.

Irving Iron Works Company, Long Island City, N. Y. Metal gratings for floorings and staircases. No. 135,470; Oct. 12; v. 279; p. 344.

Israel Underwear Co., Worcester, Mass. Underwear. No. 128,409; Jan. 6; v. 270; p. 181.

Isaac, Morris, & Sons, Cincinnati, Ohio. Union-suits, shirts, and drawers. No. 135,265; Sept. 28; v. 278; p. 703.

Italian Barbers' Benevolent Society of New York, New York, N. Y. Weekly newspaper. No. 129,757; Mar. 9; v. 272; p. 364.

Italian Discount and Trust Company, New York, N. Y. Monthly publication. No. 131,784; May 25; v. 274; p. 832.

Italian Drugs Importing Co., New York, N. Y. Stimulant and tonic for diseases of the nervous system, bones, &c. No. 129,364; Feb. 17; v. 271; p. 508.

Italian Food Products Co., Los Angeles, Calif. Canned tomatoes, tomato paste, canned string-beans, &c. No. 131,503; May 18; v. 274; p. 604.

Iten Biscuit Co., Clinton, Iowa, and Omaha, Nebr. Cookies. No. 129,006; Jan. 20; v. 270; p. 474.

Iten Biscuit Co., Omaha, Nebr. Crackers, biscuits, wafers, cakes, and cookies. No. 137,629; Nov. 30; v. 280; p. 998.

Ivory Polish Company, Elyria, Ohio. Shoe-polish. No. 133,708; Aug. 3; v. 277; p. 174.

Ivy Corset Company, Worcester, Mass. Corsets, brassières, &c. No. 132,420; June 22; v. 275; p. 819.

Ivy Corset Company, Worcester, Mass. Corsets. No. 138,188; Dec. 14; v. 281; p. 405.

J & B Manufacturing Company, Pittsfield, Pa. Spark-timers and electric coils. No. 135,472; Oct. 12; v. 279; p. 344.

"J. D." Insulating & Refrigerating Co. Ltd., Liverpool, England. Composition fireproof floorings and coverings for partitions, walls, and roofings. No. 134,692; Sept. 14; v. 278; p. 357.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

J. E. M. Products Laboratories, Chicago, Ill. Mucilage holder and applier. No. 137,279; Nov. 23; v. 280; p. 794.
J. R. Waist & Dress Co., New York, N. Y. Ladies' and misses' outer waists. No. 137,286; Nov. 23; v. 280; p. 795.
J. T. Tractor Company, The, Cleveland, Ohio. Tractors and parts thereof. No. 137,397; Nov. 23; v. 280; p. 798.
Jaburg-Miller Co. Inc., New York, N. Y. Monthly periodical. No. 136,835; Nov. 9; v. 280; p. 380.
Jacknowitz, Charles, Union Hill, N. J. Liquid eyeglass-cleaner. No. 131,505; May 18; v. 274; p. 604.
Jackoway and Katz Cap Co., St. Louis, Mo. Caps. No. 129,170; Jan. 27; v. 270; p. 615.
Jackson Brewing Company, New Orleans, La. Non-alcoholic maltless cereal beverages. No. 131,504; May 18; v. 274; p. 604.
Jackson Brewing Company, New Orleans, La. Non-alcoholic beverages. No. 131,785; May 25; v. 274; p. 832.
Jackson Brewing Company, New Orleans, La. Bottled malt beverages. No. 136,480; Nov. 2; v. 280; p. 183.
Jackson, C. D., & Co. Inc., New York, N. Y. Marble and stone. Nos. 134,388–97; Aug. 31; v. 277; pp. 972–3.
Jackson, C. D., & Co., Inc., New York, N. Y. Marble and stone. Nos. 136,836–8; Nov. 9; v. 280; p. 380.
Jackson, Chas. H., Philadelphia, Pa. Metal roll-screens for windows, &c. No. 129,171; Jan. 27; v. 270; p. 615.
Jackson, Edmond, Newport News, Va. Woven textile or fiber floor-mats. No. 132,975; July 6; v. 276; p. 202.
Jackson, J., Limited, Bramley, England. Taps and valves of metal for general use with fluids. No. 134,175; Aug. 17; v. 277; p. 581.
Jacobs, Albert, Company, New York, N. Y. Job and delivery tags. No. 131,143; May 4; v. 274; p. 197.
Jacobs Candy Company Ltd., New Orleans, La. Candy. No. 128,953; Jan. 20; v. 270; p. 472.
Jacobs, Elliott, New Orleans, La. Medicine for constipation. No. 133,441; July 27; v. 276; p. 769.
Jacobs, Samuel, Brooklyn, N. Y. Herb bitters, a stomach and liver tonic. No. 129,758; Mar. 9; v. 272; p. 364.
Jacobson Bros., New York, N. Y. Boots, shoes, and slippers. No. 137,275; Nov. 23; v. 280; p. 794.
Jaeger & Kuenzler, New York, N. Y. Mayonnaise and salad-dressing. No. 137,276; Nov. 23; v. 280; p. 794.
Jaeger, Wm. J., New York, N. Y. Domestic cooking-boilers. No. 131,329; May 11; v. 274; p. 400.
Jaeger's, Dr., Sanitary Woolen System Co., New York, N. Y. Knitted and woven underwear, hosiery, sweaters, &c. No. 138,267; Dec. 21; v. 281; p. 564.
Jahn, W. K., Co., Brooklyn, N. Y. Flavoring for foods. No. 128,740; Jan. 13; v. 270; p. 339.
James, Edward, New York, N. Y. Cutlery, table-forks, &c. No. 138,034; Dec. 14; v. 281; p. 398.
James S. Kirk & Company, Chicago, Ill. Toilet soap. No. 132,721; June 29; v. 275; p. 1016.
Jameson, Jas. E., Detroit, Mich. Medicinal preparation. No. 132,421; June 22; v. 275; p. 819.
Janes, Josephine, Co., Lynbrook and New York, N. Y. Dolls. No. 135,711; Oct. 19; v. 279; p. 529.
Janney & Burroughs, Inc., Philadelphia, Pa. Sole-leather. No. 130,767; May 4; v. 274; p. 186.
Jantzen Knitting Mills, Portland, Oreg. Clothing. No. 137,278; Nov. 23; v. 280; p. 794.
Jarman, George R., Baltimore, Md. Refrigerating-machines. No. 135,471; Oct. 12; v. 279; p. 344.
Jarvis, Hugh S., New York, N. Y. Motor-trucks. No. 132,002; June 8; v. 275; p. 414.
Jasmine Ink Corporation, Norfolk, Va. Condensed ink. No. 131,506; May 18; v. 274; p. 604.
Jaxon Steel Products Company, Detroit, Mich. Vehicle-wheels. No. 132,715; June 29; v. 275; p. 1016.
Jefferson, George F., Cincinnati, Ohio. Certain named foods. No. 132,003; June 8; v. 275; p. 414.
Jeffrey, William R., Boston, Mass. Medicine for gall-stones and gravel. No. 134,982; Sept. 21; v. 278; p. 532.
Jelke, John F., Company, Chicago, Ill. Oleomargarin. No. 136,481; Nov. 2; v. 280; p. 183.
Jemtone Co., The, Omaha, Nebr. Needle-holding attachments for the sound-boxes of phonographs. No. 135,712; Oct. 19; v. 279; p. 529.
Jennings & Company, Inc., Boston, Mass. Dyestuffs. No. 134,983; Sept. 21; v. 278; p. 532.
Jennings Lace Works Corporation, New York, N. Y. Knitted, netted, and textile fabrics. No. 133,149; July 13; v. 276; p. 402.
Jennings Lace Works Corporation, Brooklyn, N. Y. Clothing. No. 134,693; Sept. 14; v. 278; p. 357.
Jennings Lace Works Corporation, Brooklyn, N. Y. Knitted, netted, and textile fabrics. No. 136,049; Oct. 26; v. 279; p. 720.
Jennings Manufacturing Company, Grand Rapids, Mich. Perfumery, toilet water, face and talcum powder, and face-cream. No. 131,507; May 18; v. 274; p. 604.
Jensen & Sons Milling & Grain Co., Nelson, Nebr. Wheat-flour. No. 128,741; Jan. 13; v. 270; p. 339.
Jersey Silk Mills, New York, N. Y., and Plainfield, N. J. Broad silks in the piece. No. 136,482; Nov. 2; v. 280; p. 183.
Jetter Beverage Company, Omaha, Nebr. Cereal malt beverage. No. 131,330; May 11; v. 274; p. 400.
Jetter Beverage Company, Omaha, Nebr. Cereal malt beverage. No. 131,508; May 18; v. 274; p. 604.
Jewell Belting Company, Hartford, Conn. Beltings and laces. No. 133,709; Aug. 3; v. 277; p. 174.
Jewell Belting Company, Hartford, Conn. Round and flat belting made of leather. No. 135,713; Oct. 19; v. 279; p. 529.
Jewell Belting Company, Hartford, Conn. Lace-leather and cut lacings. No. 135,714; v. 279; p. 529.
Jewett & Fitzgerald, North Andover, Mass. Stop-motions for worsted-combs. No. 137,280; Nov. 23; v. 280; p. 794.
Jime-Straight Company, Incorporated, Petersburg, Va. Pomade for the scalp and hair. No. 132,422; June 22; v. 275; p. 819.
Jimmy Quick Products Co., San Francisco, Calif. Cleansing compounds. No. 129,053; Jan. 20; v. 270; p. 475.
Jobbers Overall Co., Inc., Lynchburg, Va. Overalls and work-clothes. No. 138,472; Dec. 28; v. 281; p. 783.
Johansen Brothers Shoe Company, St. Louis, Mo. Women's and children's shoes of leather and cloth and leather. No. 130,527; Apr. 27; v. 273; p. 803.
Johansen Brothers Shoe Company, St. Louis, Mo. Women's and children's shoes. No. 137,277; Nov. 23; v. 280; p. 794.
John Curtin Corp., New York, N. Y. Hammocks. No. 130,056; Apr. 6; v. 273; p. 180.
"John R." Mills Company, Turon, Kans. Wheat-flour. No. 129,378; Feb. 17; v. 271; p. 508.
Johnson, B. L., & Co., Knoxville, Tenn. Caramels, chocolates, cream candies, &c. No. 128,410; Jan. 6; v. 270; p. 181.
Johnson-Bostwick & Co., Minneapolis, Minn. Coats, outer vests, and work-shirts for men. No. 133,264; July 20; v. 276; p. 591.
Johnson Bros. & Alexander, Chicago, Ill. Candies. No. 130,323; Apr. 20; v. 273; p. 621.
Johnson, C. E., & Co., Chicago, Ill. Shoe-polish. Nos. 137,281–3; Nov. 23; v. 280; p. 795.
Johnson, Charles H., Salem, Ohio. Medicine for tuberculosis. No. 128,742; Jan. 13; v. 270; p. 339.
Johnson City Mills, Johnson City, Tenn. Hosiery. No. 134,694; Sept. 14; v. 278; p. 357.
Johnson, Cowdin and Co., Inc., New York, N. Y. Ribbons in the piece. No. 131,509; May 18; v. 274; p. 604.
Johnson, Cowdin and Co., Inc., New York, N. Y. Ribbons in the piece. No. 132,181; June 15; v. 275; p. 618.
Johnson, Cowdin and Co., Inc., New York, N. Y. Ribbons in the piece. No. 132,423; June 22; v. 275; p. 819.
Johnson, Cowdin and Co., Inc., New York, N. Y. Ribbons in the piece. No. 134,001; Aug. 10; v. 277; p. 388.
Johnson, Cowdin and Co., Inc., New York, N. Y. Publications issued semi-annually. No. 136,839; Nov. 9; v. 280; p. 380.
Johnson Educator Food Co., Boston, Mass. Peanut-butter and cereal coffee. No. 134,000; Aug. 10; v. 277; p. 388.
Johnson, Edward H., Trenton, N. J. Cleansing preparation for white shoes, gloves, and belts. No. 132,424; June 22; v. 275; p. 819.
Johnson, Ernest S., Webster City, Iowa. Jacketed cans. No. 136,050; Oct. 26; v. 279; p. 720.
Johnson, F. N., Maple Syrup Company, The, Bellefontaine, Ohio. Cane and maple syrup. No. 134,002; Aug. 10; v. 277; p. 388.
Johnson, George T., Co., The. Boston, Mass. Toilet-paper. No. 132,182; June 15; v. 275; p. 618.
Johnson, J., Kendrick, Elizabeth, N. J. Harmonicas or mouth-organs. No. 131,787; May 25; v. 274; p. 832.
Johnson, McGarr & Warren, Philadelphia, Pa. Bridles for brooms. No. 130,193; Apr. 13; v. 273; p. 402.
Johnson, Mead, & Co., Evansville, Ind. Preparation for treating acidity and infant ailments. No. 128,743; Jan. 13; v. 270; p. 340.
Johnson, Michael A., Portland, Me. Furniture-polish. No. 137,284; Nov. 23; v. 280; p. 795.
Johnson & Murray, Incorporated, Utica, Watertown, and Ogdensburg, N. Y. Canned vegetables, sliced dried beef, jam, coffee, &c. No. 134,398; Aug. 31; v. 277; p. 973.
Johnson & Murray, Inc., Utica, N. Y. Canned lye, bluing, and ammonia in glass. No. 134,399; Aug. 31; v. 277; p. 973.
Johnson, Nathan G., Atmore, Ala. Liniment for swollen joints, rheumatism, &c. No. 132,425; June 22; v. 275; p. 819.
Johnson Oil Refining Company, Chicago Heights, Ill. Oils and greases. No. 133,150; July 13; v. 276; p. 402.
Johnson, Robert A., Company, Milwaukee, Wis. Candy. No. 134,247; Aug. 24; v. 277; p. 778.
Johnson, Roe L., New York, N. Y. Tools. No. 134,176; Aug. 17; v. 277; p. 581.
Johnson, Spurgeon U., Portland, Oreg. Doll-beds. No. 136,488; Nov. 2; v. 280; p. 183.
Johnson, Stephens & Shinkle Shoe Company, St. Louis, Mo. Shoes. No. 131,144; May 4; v. 274; p. 197.
Johnson, Waldo P., Chicago, Ill. Feeds for poultry. No. 135,473; Oct. 12; v. 279; p. 344.
Johnston Dry Goods Co., Birmingham, Ala. Hosiery, men's collars, dress-shirts, &c. No. 130,768; May 4; v. 274; p. 186.
Johnston Dry Goods Co., Birmingham, Ala. Cloth piece goods. No. 133,442; July 27; v. 276; p. 769.
Johnston, John A., Chicago, Ill. Medicinal and pharmaceutical preparations. No. 138,268; Dec. 21; v. 281; p. 564.

Digitized by Google

Johnston, Robert A., Co., Milwaukee, Wis. Candies. No. 134,400; Aug. 31; v. 277; p. 973.
Johnston, Wm. R., Mfg. Co., Chicago, Ill. Curtain-window for automobile-curtains. No. 132,976; July 6; v. 276; p. 202.
Jolly, Raymond G., Philadelphia, Pa. Prepared ink, ink-powders, and tablets. No. 129,759; Mar. 9; v. 272; p. 364.
Jonas, Joseph C., Brooklyn, N. Y. Corn remedies, cough medicine, liniment for sprains, &c. No. 134,695; Sept. 14; v. 278; p. 357.
Jones, D. Stuart, Washington, D. C. Coffee and tea. No. 134,003; Aug. 10; v. 277; p. 388.
Jones, Harry A., Baltimore, Md. Tea. No. 134,248; Aug. 24; v. 277; p. 778.
Jones, Joseph M., Baltimore, Md. Insecticide and fungicide. No. 134,177; Aug. 17; v. 277; p. 582.
Jones, Leroy, Houston, Tex. Liniment for the treatment of certain named affections. No. 131,331; May 11; v. 274; p. 400.
Jones Motor Car Co., The, Wichita, Kans. Pleasure-automobiles and motor-trucks. No. 132,716; June 29; v. 275; p. 1016.
Jones & Pettigrew, San Francisco, Calif. Fresh fruits. No. 134,249; Aug. 24; v. 277; p. 778.
Jones, Samuel, & Company, Newark, N. J. Paper coated on one side with mucilage. No. 138,035; Dec. 14; v. 281; p. 398.
Jones, Thomas W., Cincinnati, Ohio. Pressing-cloths. No. 130,194; Apr. 13; v. 273; p. 402.
Jones, W. A., Foundry & Machine Co., Chicago, Ill. Spur-gear reducers, worm-gear speed-reducers, power-transmission machinery. No. 133,151; July 13; v. 276; p. 402.
Jonkopings & Vulcans Tandsticksfabrik Aktiebolag. (See Stromborg Export & Import Co. Inc., assignor.)
Jonkopings & Vulcans Tandsticksfabriks Aktiebolag. (See Stromborg Export & Import Co. Inc.)
Joppa Machine & Bronze Co., Philadelphia, Pa. Metals for machine bearings and bushings. No. 137,285; Nov. 23; v. 280; p. 795.
Jordan and Hamble Compounding Company, Houston, Tex. Liniment for the treatment of rheumatism. No. 134,984; Sept. 21; v. 278; p. 532.
Jordan Marsh Company, Boston, Mass. Handkerchiefs. No. 130,324; Apr. 20; v. 273; p. 621.
Jordan Motor Car Co., Cleveland, Ohio. Automobiles. No. 134,985; Sept. 21; v. 278; p. 532.
Jory, Arthur T., San Francisco, Calif. Weekly publication. No. 135,715; Oct. 19; v. 279; p. 529.
Joseph Krieg-Fink Co., Inc., Jersey City, N. J. Non-intoxicating maltless beverage. No. 132,433; June 22; v. 275; p. 820.
Joseph-Louis & Co., New York, N. Y. Fancy goods, furnishings, and notions. No. 133,265; July 20; v. 276; p. 591.
Josephson, C. I., Moline, Ill. Jewelry not including watches and sterling and plated tableware. No. 136,051; Oct. 26; v. 279; p. 720.
Josephson, C. I., Moline, Ill. Watches. No. 136,487; Nov. 2; v. 280; p. 183.
Josin, William H., Providence, R. I. Braids, shoe and corset laces, and galloons. No. 134,508; Sept. 7; v. 278; p. 160.
Judy, Will S., Lexington, Ky. Tobacco-seed. No. 134,696; Sept. 14; v. 278; p. 357.
Julius, Hyman, Brooklyn, N. Y. Writing-ink. No. 129,760; Mar. 9; v. 272; p. 364.
Jureidini Export Company, New York, N. Y. Lingerie, underwear, shoes, and hats. No. 133,710; Aug. 3; v. 277; p. 174.
Just, Alvah L., Syracuse, N. Y. Dust-caps for pneumatic-tire valves. No. 137,287; Nov. 23; v. 280; p. 795.
Just Shoe Company, The, West Alhambra, Calif. Children's and misses' leather, canvas, and felt shoes and slippers. No. 131,145; May 4; v. 274; p. 197.
Juster, Avram, New York, N. Y. Medicines for use as a stomach compound. No. 128,744; Jan. 13; v. 270; p. 340.
Justice, Frank G., Philadelphia, Pa. Cake. No. 132,717; June 29; v. 275; p. 1016.
Justrite Mfg. Co., Chicago, Ill. Water-flow-controlling valves for carbid-lamps. No. 129,173; Jan. 27; v. 270; p. 615.
Juvenile Shoe Corporation of America, The, St. Louis, Mo. Boots, shoes, and sandals of kid, leather, and canvas. No. 129,476; Feb. 24; v. 271; p. 679.
Juvenile Shoe Corporation of America, St. Louis, Mo. Boots, shoes, and sandals of kid, leather, &c. No. 137,630; Nov. 30; v. 280; p. 998.
K-B. Pulverizer Co., Inc., New York, N. Y. Machinery for crushing and pulverizing ores and other minerals. No. 137,291; Nov. 23; v. 280; p. 795.
K-D Manufacturing Co., Lancaster, Pa. Valve-spring lifters. No. 137,808; Dec. 7; v. 281; p. 196.
K. and O. Co. Inc., Brooklyn, N. Y. Metal desk sets. No. 138,043; Dec. 14; v. 281; p. 398.
K-W. Medicine Co., The, Smith Grove, Ky. Remedy for piles. No. 137,817; Dec. 7; v. 281; p. 197.
Kabisch & Co., Inc., Philadelphia, Pa. Food product for producing soup. No. 135,567; Oct. 12; v. 279; p. 347.
Kabo Corset Company, Chicago, Ill. Sheet-metal fasteners for corsets, rubber button-bases, &c. No. 130,195; Apr. 13; v. 273; p. 402.
Ka-Dene Medicine Co., Nashville, Tenn. Ointment for the treatment of skin diseases. No. 135,716; Oct. 19; v. 279; p. 529.
Kaelin, Henry, & Son, Brooklyn, N. Y; Baltimore, Md., and Habana, Cuba. Fresh vegetables. No. 130,076; Apr. 6; v. 273; p. 180.
Kaffee Hag Corporation, New York, N. Y. Decaffeinated coffee. No. 136,840; Nov. 9; v. 280; p. 380.
Kahan, Gabriel, Lowell, Mass. Food paste to be used in a manner similar to butter. No. 131,146; May 4; v. 274; p. 197.
Kahan, Joseph C., Philadelphia, Pa. Optical goods. No. 134,178; Aug. 17; v. 277; p. 582.
Kahn, Dreyfus & Co., Inc., New York, N. Y. Men's and boys' outer suits, coats, and overcoats. No. 136,489; Nov. 2; v. 280; p. 183.
Kahn, Dreyfus & Co., Inc., New York, N. Y. Outer suits for men and boys. No. 138,236; Dec. 21; v. 281; p. 563.
Kahn Tailoring Company, Indianapolis, Ind. Raincoats. No. 133,443; July 27; v. 276; p. 769.
Kahn, William, St. Louis, Mo. Cold-creams, hair-tonics, and shampoos. No. 132,426; June 22; v. 275; p. 819.
Kalenscher, Wm., Rockaway Beach and New York, N. Y. Skin-protecting compound. No. 138,189; Dec. 14; v. 281; p. 405.
Kales Stamping Company, Detroit, Mich. Rear-view automobile-mirrors. No. 138,394; Dec. 21; v. 281; p. 570.
Kali Manufacturing Co., Philadelphia, Pa. Antiseptic and disinfectant for sick-rooms, closets, and household purposes. No. 134,509; Sept. 7; v. 278; p. 160.
California Kola Company, Los Angeles, Calif. Non-intoxicating non-cereal maltless fruit beverage. No. 137,288; Nov. 23; v. 280; p. 795.
Kalish, Julius, Inc., New York, N. Y. Preparation used internally in cases of chronic constipation, mucous colitis, &c. No. 133,444; July 27; v. 276; p. 769.
Kalish & Miller, New York, N. Y. Furs. No. 138,036; Dec. 14; v. 281; p. 398.
Kalyptol Chemical Company, Newark, N. J. Preparation for the treatment of mucous-membrane disorders and diseases. No. 131,332; May 11; v. 274; p. 400.
Kamenstein, Myer, New York and Brooklyn, N. Y. Ash, garbage, and oil cans. No. 130,769; May 4; v. 274; p. 186.
Kamm & Schellinger Co., Mishawaka, Ind. Root-beer. No. 135,717; Oct. 19; v. 279; p. 529.
Kampfe Bros., Brooklyn, N. Y. Shaving-brushes. No. 132,977; July 6; v. 276; p. 202.
Kandykraft Korporation, New York, N. Y. Chocolate. No. 134,401; Aug. 31; v. 277; p. 973.
Kane, Henry, Brooklyn, N. Y. Ladies', misses', and children's hats. No. 129,174; Jan. 27; v. 270; p. 615.
Kane, Robert, Pittsburgh, Pa. Pharmaceutical preparation, blood-tea. No. 128,411; Jan. 6; v. 270; p. 180.
Kansas Book Dealers Association. (See Lee, H. D., Mercantile Co., The, assignor.)
Kaplan, Charles M., Philadelphia, Pa. Leather shoes. No. 128,745; Jan. 13; v. 270; p. 340.
Kaplan & Kaplan, New York, N. Y. Men's dress-shirts. No. 131,788; May 25; v. 274; p. 832.
Kapo Manufacturing Company, Boston, Mass. Kapok filling or stuffing for life-saving garments, buoyant swim-wings, &c. No. 137,081; Nov. 16; v. 280; p. 568.
Kapp & Peterson Limited, Dublin, Ireland. Tobacco-pipes, cigar and cigarette holders. No. 137,807; Dec. 7; v. 281; p. 196.
Kappas, Evaggelos, St. Louis, Mo. Candy. No. 131,106; May 4; v. 274; p. 196.
Karalan, Melcon A., New York, N. Y. Petticoats and bloomers. No. 130,770; May 4; v. 274; p. 186.
Karak, Solomon, New York, N. Y. Fermented milk. No. 137,631; Nov. 30; v. 280; p. 998.
Kardell Tractor and Truck Company, St. Louis, Mo. Tractors. No. 137,289; Nov. 23; v. 280; p. 795.
Karegeannes, Stephen K., Milwaukee, Wis. Hair-tonic. No. 129,477; Feb. 24; v. 271; p. 679.
Karnofsky, Charles F., Minneapolis, Minn. Salves. No. 135,718; Oct. 19; v. 279; p. 529.
Karp, Joseph H., New York, N. Y. Cake, bar, paste, liquid, and powder soaps. No. 136,490; Nov. 2; v. 280; p. 183.
Karpen, S., & Bro., Chicago, Ill. Furniture-cushions. No. 133,266; July 20; v. 276; p. 591.
Kashinsky, John, Weehawken, N. J. Clothes-washing machines and mangles. No. 135,266; Sept. 28; v. 278; p. 703.
Kashmir Chemical Company, Chicago, Ill. Liquid shampoo for the hair and scalp, talcum powder, face-cream, &c. No. 129,478; Feb. 24; v. 271; p. 679.
Kasser, Adolf, Philadelphia, Pa. Soap. No. 134,697; Sept. 14; v. 278; p. 357.
Katten, Arthur A., Company, New Orleans, La. Boys' overalls, knee-pants, and coats. No. 136,491; Nov. 2; v. 280; p. 183.
Katten, Arthur A., Company Inc., New Orleans, La. Boys' overalls, knee-pants, and coats. No. 137,632; Nov. 30; v. 280; p. 998.
Katz, Nuemon, Chicago, Ill. Writing fluid. No. 129,761; Mar. 9; v. 272; p. 364.
Katzenbach & Bullock Co., New York, N. Y. Pigments and materials used in the manufacture of paint. No. 138,037; Dec. 14; v. 281; p. 398.
Katzman, Louis, Inc., New York, N. Y. Shawl-coat. No. 132,979; July 6; v. 276; p. 202.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Katzman, Louis, Inc., New York, N. Y. Ladies' dresses and coats. No. 138,271; Dec. 21; v. 281; p. 564.
Kaufmann Department Stores Inc., Pittsburgh, Pa. Bicycle-tires. No. 133,711; Aug. 3; v. 277; p. 174.
Kaufman, Jacob J., Columbus, Ga. Pomade hair-dressing. No. 134,698; Sept. 14; v. 278; p. 357.
Kaufman, S. E., Trenton, N. J. Clothesline-props. No. 137,290; Nov. 23; v. 280; p. 795.
Kaufmann Bros. & Bondy, New York, N. Y. Smokers' pipes, cigar, and cigarette holders. No. 134,986; Sept. 21; v. 278; p. 532.
Kaufmann Department Stores, Inc., Pittsburgh, Pa. Shoes. No. 136,492; Nov. 2; v. 280; p. 183.
Kaufmann, Henry L., Louisville, Ky. Rubber sheeting in the piece or roll. No. 137,633; Nov. 30; v. 280; p. 998.
Kaut, William, Footwear Company, Carthage, Mo. Boots, shoes, slippers, and sandals made of leather. No. 130,528; Apr. 27; v. 273; p. 803.
Kaut, Wm., Footwear Company, Carthage, Mo. Leather boots and shoes. No. 128,412; Jan. 6; v. 270; p. 181.
Kaut, Wm., Footwear Company, Carthage, Mo. Boots and shoes made of leather. Nos. 130,771–4; May 4; v. 274; p. 186.
Kaut, Wm., Footwear Company, Carthage, Mo. Leather boots and shoes. No. 131,147; May 4; v. 274; p 197.
Kaut, Wm., Footwear Co., Carthage, Mo. Leather boots, shoes, slippers, and sandals. No. 131,148; May 4; v. 274; p. 197.
Kay Bee Manufacturing Company, Los Angeles, Calif. Electric searchlights. No. 136,053; Oct. 26; v. 279; p. 720.
Kay Manufacturing Co., The, New York, N. Y. Window-guards. No. 129,291; Feb. 10; v. 271; p. 356.
Kaye, Harry, Yonkers, N. Y. Insect-powder. No. 131,511; May 18; v. 274; p. 605.
Kayser, Henry, & Fils, Inc., New York, N. Y. Men's women's, and children's kid gloves. No. 130,325; Apr. 20; v. 273; p. 621.
Kayser, Henry, & Fils, Inc., New York, N. Y. Filter-paper. No. 134,987; Sept. 21; v. 278; p. 532.
Kayser, Julius, & Co., New York, N. Y. Short narrow strips of fabric for use as trimmings for underwear. No. 131,149; May 4; v. 274; p. 197.
Kazanjian, Calvin K., Naugatuck, Conn. Candy. No. 129,292; Feb. 10; v. 271; p. 356.
Kea, William, Dublin, Ga. Worm and insect exterminator. No. 132,427; June 22; v. 275; p. 819.
Keasbey & Mattison Company, Ambler, Pa. Medicinal preparation for headache and nervous diseases. No. 131,512; May 18; v. 274; p. 605.
Keasbey & Mattison Company, Ambler, Pa. Preparation for rheumatism and cystitis. No. 131,513; May 18; v. 274; p. 605.
Keasbey & Mattison Company, Ambler, Pa. Medicinal remedy for colds and malaria. No. 131,514; May 18; v. 274; p. 605.
Keck, C. W., Salem, Va. Non-alcoholic, non-cereal, malt-less beverage and a syrup therefor. No. 138,272; Dec. 21; v. 281; p. 564.
Keck, Fred L., Jeannette, Pa. Painters' material. No. 137,292; Nov. 23; v. 280; p. 795.
Keebler Weyl Baking Co., Philadelphia, Pa. Bread, rolls, cakes, pies, &c. No. 130,775; May 4; v. 274; p. 186.
Keebler Weyl Baking Co., Philadelphia, Pa. Crackers, cakes, pies, chocolate, chewing-gum, and candy, &c. No. 135,358; Sept. 28; v. 278; p. 706.
Keeler, F. M., Co., The, Boston, Mass. Tooth paste, powder, dentifrice, toothache-gum, &c. No. 129,365; Feb. 17; v. 271; p. 508.
Keeley Brewing Co., Chicago, Ill. Malt non-intoxicating beverage. No. 136,493; Nov. 2; v. 280; p. 183.
Keen Kola Mfg. Co., Dallas, Tex. Maltless beverage. No. 135,474; Oct. 12; v. 279; p. 344.
Keeps-Fresh Electric Bakeries, Chicago, Ill. Electric ovens. No. 131,515; May 18; v. 274; p. 605.
Keet & Rountree Dry Goods Co., Springfield, Mo. Overalls. No. 135,719; Oct. 19; v. 279; p. 529.
Kehlor Flour Mills Co., St. Louis, Mo. Wheat-flour. No. 128,413; Jan. 6; v. 270; p. 181.
Keiffer Bros. Co., New Orleans, La. Leather shoes. No. 129,965; Mar. 9; v. 272; p. 371.
Keiller, James, & Son, Ltd., Dundee, Scotland. Chocolate. No. 138,038; Dec. 14; v. 281; p. 398.
Keiner & Pohl Company, Milwaukee, Wis. Leather-dressings. No. 134,988; Sept. 21; v. 278; p. 532.
Kellerman, Isidor, New York, N. Y. Furniture and automobile-body polishes. No. 134,004; Aug. 10; v. 277; p. 388.
Kelley-Clarke Co., Seattle, Wash. Coatings for candies and cake. No. 128,746; Jan. 13; v. 270; p. 340.
Kelley-Clarke Co., Seattle, Wash. Canned salmon. No. 130,776; May 4; v. 274; p. 186.
Kelley-Clarke Co., Seattle, Wash. Fruit jams. No. 131,333; May 11; v. 274; p. 400.
Kelley-Robinson Corporation, The, assignor to The So-Lite Company, Incorporated, New York, N. Y. Doughnuts. No. 134,005; Aug. 10; v. 277; p. 388.
Kellner Bros., New York, N. Y. Children's dresses. No. 128,747; Jan. 13; v. 270; p. 340.
Kellogg Manufacturing Co., Rochester, N. Y. Air-pumps, hand and power driven pumps, &c. No. 138,039; Dec. 14; v. 281; p. 398.
Kellogg Products Inc., Buffalo, N. Y. Oleomargarin. No. 134,006; Aug. 10; v. 277; p. 388.
Kellogg Seed Co., Milwaukee, Wis. Field and grass seeds. No. 131,150; May 4; v. 274; p. 197.
Kellogg Switchboard and Supply Company, Chicago, Ill. Telephones, electrical apparatus, and supplies. No. 136,494; Nov. 2; v. 280; p. 183.
Kellogg, W. B., Co., Inc., New York, N. Y. Set and unset pearls and imitation peals. No. 130,077; Apr. 6; v. 273; p. 180.
Kelloway, Warren E., Anita, Iowa. Hog remedy. No. 138,190; Dec. 14; v 281; p. 405.
Kelly, Margaret A., San Francisco, Calif. Medicinal preparation to be used as a dentrifice. No. 135,721; Oct. 19; v. 279; p. 529.
Kelly, Patrick H., Philadelphia, Pa. Burial boxes, caskets, and vaults. No. 133,712; Aug. 3; v. 277; p. 174.
Kelly Reamer Company, Cleveland, Ohio. Reamers. No. 135,720; Oct. 19; v. 279; p. 529.
Kelly-Springfield Motor Truck Company, The, Springfield, Ohio. Automobile-trucks. Nos. 131,151–2; May 4; v. 274; p. 197.
Kelsey Textile Corporation, New York, N. Y. Cotton piece goods. No. 133,445; July 27; v. 276; p. 769.
Kelsey, William A., Minneapolis, Minn. Dental tools. No. 136,495; Nov. 2; v. 280; p. 183.
Kelvinator Corporation, Detroit, Mich. Refrigerating apparatus. No. 129,988; Mar. 16; v. 272; p. 589.
Kemmler, John A., Philadelphia, Pa. Insecticides. No. 129,479; Feb. 24; v. 271; p. 679.
Kemp, Edward W., Cleveland, Ohio. Laundry bluing. No. 138,273; Dec. 21; v. 281; p. 565.
Kemper, Charles H., Westport, Conn. Sheepskin, skivers, roans, and patent-leather. No. 128,414; Jan. 6; v. 270; p. 181.
Kendal & Slusser, Mentor township, Lake county, Ohio. Eggs. No. 132,428; June 22; v. 275; p. 819.
Kendorski, Walter, Philadelphia, Pa. Deodorant, an insecticide, and a roach powder. No. 134,699; Sept. 14; v. 278; p. 357.
Kennedy, Gussie M., Los Angeles, Calif. Sheet-metal-shaping machines. No. 129,008; Jan. 20; v. 270; p. 474.
Kennesaw Hosiery Company, The, Marietta, Ga. Hosiery. No. 130,529; Apr. 27; v. 273; p. 803.
Kennesaw-Hosiery Company, The, Marietta, Ga. Men's hosiery. No. 132,183; June 15; v. 275; p. 618.
Kenny, C. D., Co., The, Baltimore, Md. Coffee. No. 135,267; Sept. 28; v. 278; p. 703.
Kenosha Wheel & Axle Company, Kenosha, Wis. Cast metal vehicle-wheels. No. 131,153; May 4; v. 274; p. 197.
Kent Break Spark Plug Company, St. Louis, Mo. Spark-plugs. No. 136,052; Oct. 26; v. 279; p. 720.
Kent Manufacturing Company, Clifton Heights, Pa. Serges, flannels, &c. No. 129,480; Feb. 24; v. 271; p. 679.
Kent & Purdy Paint Company, St. Louis, Mo. Paints, pigments, colors ground in Japan and oil, oil stains, &c. No. 133,152; July 13; v. 276; p. 402.
Kenton Pharmacal Company, The, Covington, Ky. Hair-tint. No. 132,718; June 29; v. 275; p. 1016.
Kenyon, C., Company, Brooklyn, N. Y. Rubber tires and tubes. No. 133,153; July 13; v. 276; p. 402.
Kenyon, C., Company, Brooklyn, N. Y. Men's, women's, and children's outer coats, overcoats, vests, &c. No. 137,293; Nov. 23; v. 280; p. 795.
Kenyon, C., Company, Brooklyn, N. Y. Waterproof fabrics in the piece. No. 137,294; Nov. 23; v. 280; p. 795.
Kenyon, John, & Co. (Sheffield,) Limited, Sheffield, England. Iron and steels. Nos. 131,516–18; May 18; v. 274; p. 605.
Kenyon, John, & Co. (Sheffield,) Limited, Sheffield, England. Cutlery, machinery, and tools, and parts thereof. No. 133,267; July 20; v. 276; p. 591.
Kenyon, John, & Co. (Sheffield), Limited, Millsands, Sheffield, England. Cutlery, machinery, tools, &c. No. 137,809; Dec. 7; v. 281; p. 196.
Kenyon, John, & Co. (Sheffield,) Limited, Millsands, Sheffield, England. Iron, spring, blister, alloy, &c., steels. Nos. 137,810–11; Dec. 7; v. 281; p. 196.
Kenyon, John, & Co. (Sheffield,) Limited, Millsands, Sheffield, England. Cutlery, machinery, &c. No. 137,812; Dec. 7; v. 281; p. 196.
Kenyon, John, & Co. (Sheffield,) Limited, Millsands, Sheffield, England. Iron, spring, blister, alloy, &c., steels. No. 137,813; Dec. 7; v. 281; p. 196.
Kenyon, John, & Co. (Sheffield,) Limited, Millsands, Sheffield, England. Cutlery, machinery, tools, &c. No. 137,814; Dec. 7; v. 281; p. 197.
Kenyon, John, & Co. (Sheffield,) Limited, Millsands, Sheffield, England. Iron, spring, blister, alloy, &c., steels. No. 137,815; Dec. 7; v. 281; p. 197.
Kenyon, John, & Co. (Sheffield,) Limited, Millsands, Sheffield, England. Cutlery, machinery, tools. No. 138,040; Dec. 14; v. 281; p. 398.
Keppel, R. F., & Bro, Lancaster, Pa. Candies. No. 130,777; May 4; v. 274; p. 186.
Kern, C., Products Co., Port Huron, Mich. Malt beverages, extracts, and liquors. No. 133,713; Aug. 3; v. 277; p. 174.
Kerr, Alex., Bros. & Co., Philadelphia, Pa. Salt. Nos. 138,274–5; Dec. 21; v. 281; p. 565.

Digitized by Google

Kesner and Jerlaw, New York, N. Y. Phonographs. No. 129,762; Mar. 9; v. 272; p. 364.
Ketcham & McDougall, Inc., Brooklyn, N. Y. Automatic-winding eyeglass or pencil holders. No. 137,816; Dec. 7; v. 281; p. 197.
Kettleman, Edward H., Independence, Kans. Salve. No. 128,748; Jan. 13; v. 270; p. 340.
Kewley Bros., Battle Creek, Mich. Preparation administered internally to horses and other live stock. No. 132,429; June 22; v. 275; p. 819.
Keystone Driller Company, Beaver Falls, Pa. Machinery. No. 134,179; Aug. 17; v. 277; p. 582.
Keystone Fruit Products Company, Cincinnati, Ohio. Non-alcoholic, non-cereal, maltless syrup, for making soda-water beverages. No. 134,007; Aug. 10; v. 277; p. 388.
Keystone Instant Food Company, Danbury, Conn., and New York, N. Y. Food. No. 136,055; Oct. 26; v. 279; p. 720.
Keystone Macaroni Company, Lebanon, Pa. Macaroni. No. 128,415; Jan. 6; v. 270; p. 181.
Keystone Oil & Manufacturing Company, Chicago, Ill. Screw-cutting oils. No. 132,719; June 29; v. 275; p. 1016.
Keystone Watch Case Company, The, Philadelphia, Pa. Watchcases. No. 136,841; Nov. 9; v. 280; p. 380.
Khouri, E. G., & Bro., New York, N. Y. Snap-fasteners and buttons suitable for wearing-apparel. No. 130,078; Apr. 6; v. 273; p. 180.
Kick, Emile F., Newark, N. J. Sulfureted oil for emulsifying raw oils. No. 134,700; Sept. 14; v. 278; p. 357.
Kickbusch, A., Grocery Co., Wausau, Wis. Canned goods, &c. No. 134,250; Aug. 24; v. 277; p. 778.
Kidde, Walter, Company, Incorporated, New York, N. Y. Marine fire-extinguishing system. No. 137,898; Dec. 7; v. 281; p. 199.
Kiddie Kover Manufacturing Company, Detroit, Mich. Children's suits and rompers. No. 130,778; May 4; v. 274; p. 186.
Kiger, Elizabeth, Birmingham, Ala. Hair-tonic. No. 134,701; Sept. 14; v. 278; p. 357.
Kilbourne & Clark Manufacturing Co., Seattle, Wash. Radio telegraph and telephone apparatus. No. 134,702; Sept. 14; v. 278; p. 357.
Kilbourne & Clark Manufacturing Co., Seattle, Wash. Wireless apparatus and electrical goods. No. 135,722; Oct. 19; v. 279; p. 529.
Kildirt Soap Products Company, Seattle, Wash. Soap, soap powders, and cleansers. No. 132,720; June 29; v. 275; p. 1016.
Kilgore, Jefferson D., Poplar Bluff, Mo. Phonographs, talking-machines, and pianos. No. 131,786; May 25; v. 274; p. 832.
Killen, Edward B., London, England. Rubber tires for motor-cars and other vehicles. No. 137,037; Nov. 16; v. 280; p. 583.
Kil-Tone Company, Vineland, N. J. Insecticide. No. 128,749; Jan. 13; v. 270; p. 340.
Kimball, C. M., Company, Winthrop, Mass. Metal-polish. No. 132,004; June 8; v. 275; p. 414.
Kimball & Sherman Company, Haverhill, Mass. Leather boots and shoes. No. 135,268; Sept. 28; v. 278; p. 703.
Kimberly-Clark Company, Neenah, Wis. Sanitary napkins. No. 128,416; Jan. 6; v. 270; p. 181.
Kimberly-Clark Company, Neenah, Wis. Book-paper. No. 137,634; Nov. 30; v. 280; p. 998.
King, Mrs. A. R., Inc., Philadelphia, Pa. Leather, rubber, and canvas shoes. No. 133,268; July 20; v. 276; p. 591.
King, C. G., & Co., Providence, R. I. Dental paste. No. 137,038; Nov. 16; v. 280; p. 583.
King Cigar Company, Leaksville, N. C. Cigars. No. 136,496; Nov. 2; v. 280; p. 183.
King Coal Company, San Francisco, Calif. Coal. No. 130,779; May 4; v. 274; p. 186.
King, Joseph S., Chicago, Ill. Ointment for treatment of skin diseases and piles. No. 128,750; Jan. 13; v. 270; p. 340.
King, Oliver, Knoxville, Tenn. White-marble lime. No. 132,005; June 8; v. 275; p. 414.
King Paint Manufacturing Company, Brooklyn, N. Y. Ready-mixed paints. No. 136,054; Oct. 26; v. 279; p. 720.
King, Robert C., & Co., New York, N. Y. Underwear and hosiery. No. 130,326; Apr. 20; v. 273; p. 621.
King, Robert C., & Co., New York, N. Y. Underwear. No. 130,327; Apr. 20; v. 273; p. 621.
King Trailer Company, Ann Arbor, Mich. Semitrailers. No. 132,980; July 6; v. 276; p. 202.
King Ventilating Company, Owatonna, Minn. Plans for building. No. 134,703; Sept. 14; v. 278; p. 357.
King, W. H., Drug Co., Raleigh, N. C. Preparation for the relief of pneumonia, croup, colds, &c. No. 129,481; Feb. 24; v. 271; p. 679.
Kingan & Company Limited, Belfast, Ireland, and Indianapolis, Ind. Pork and beans. No. 136,842; Nov. 9; v. 280; p. 380.
Kingan & Company, Limited, Belfast, Ireland; Indianapolis, Ind.; Atlanta, Ga.; Jacksonville and Tampa, Fla.; Richmond and Norfolk, Va.; Washington, D. C.; San Francisco, Calif.; Baltimore, Md.; Columbus, Ohio. Articles of food. No. 138,041; Dec. 14; v. 281; p. 398.
Kingman, Russell B., West Orange, N. J. Ginger-ale. No. 129,175; Jan. 27; v. 270; p. 615.
Kinney Bros, Inc., Binghamton, N. Y. Evaporated milk. No. 131,154; May 4; v. 274; p. 198.
Kinsella Company, Chicago, Ill. Poultry-tonics. No. 129,482; Feb. 24; v. 271; p. 679.
Kipper, Allen F., Los Angeles, Calif. Wind-deflectors for automobiles. No. 135,723; Oct. 19; v. 279; p. 529.
Kirchheimer Bros. Co., Chicago, Ill. Wrapping-paper. No. 128,751; Jan. 13; v. 270; p. 340.
Kirk, Henry C., Baltimore, Md. Base-metal alloys. No. 135,475; Oct. 12; v. 279; p. 344.
Kirk, James S., & Company, Chicago, Ill. Toilet and laundry soap. No. 132,430; June 22; v. 275; p. 820.
Kirkhart & Berry, Des Moines, Iowa. Phonographs, talking-machines, &c. No. 129,763; Mar. 9; v. 272; p. 364.
Kirkpatrick, John R., Jr., Atlanta, Ga. Liquid composition for use on glass surfaces to keep them clear. No. 136,497; Nov. 2; v. 280; p. 183.
Kirkwood, Ida H., *et al.*, trustees. (See Nelson, William R.)
Kirkwood, Laura N., *et al.*, trustees. (See Nelson, William R.)
Kirschbaum Company, The, Savannah, Ga. Cigars. No. 133,269; July 20; v. 276; p. 591.
Kirschner-Hendler Co., New York, N. Y. Ladies' silk camisoles. No. 132,431; June 22; v. 275; p. 820.
Kirschner, Jacob, Savannah, Ga. Men's overalls. Nos. 130,328–9; Apr. 20; v. 273; p. 621.
Kissel Motor Car Company, The, Hartford, Wis. Automobiles. No. 132,722; June 29; v. 275; p. 1016.
Kistler, Lesh & Company, Boston, Mass. Leather. Nos. 132,006–8; June 8; v. 275; p. 414.
Kitz, Edward G., Oshkosh, Wis. Toy vehicle. No. 132,981; July 6; v. 276; p. 202.
Kiwanis Club, International, The, Chicago, Ill. Publications issued monthly. No. 136,498; Nov. 2; v. 280; p. 183.
Klausner, Samuel, Chicago, Ill. Non-alcoholic beverage and syrup for making same. No. 131,519; May 18; v. 274; p. 605.
Klearflax Linen Rug Company, Duluth, Minn. Rugs. No. 137,505; Nov. 23; v. 280; p. 803.
Klebanoff, David, Philadelphia, Pa. Remedy for la grippe, colds and headache. No. 131,520; May 18; v. 274; p. 605.
Kleckner, Philip, New York, N. Y. Vegetable food compound. No. 130,196; Apr. 13; v. 273; p. 402.
Kleenx Company, The, Cleveland, Ohio. Cleaning preparations for articles of straw and similar materials. No. 134,402; Aug. 31; v. 277; p. 973.
Klein, Jos. A., New York, N. Y. Local anesthetics. No. 136,499; Nov. 2; v. 280; p. 183.
Kleine, Henry, & Co., Chicago, Ill. Leather shoes. No. 130,330; Apr. 20; v. 273; p. 621.
Kleinert, I. B., Rubber Company, New York, N. Y. Sanitary rubber sheets, sanitary aprons, belts, &c. Nos. 136,843–4; Nov. 9; v. 280; p. 380.
Kleistone Rubber Co., Boston, Mass. Rubber soles and heels. Nos. 138,276–7; Dec. 21; v. 281; p. 565.
Klema, Joseph W., Austin, Minn. Lanterns. No. 131,155; May 4; v. 274; p. 198.
Klemperer, Gustav, New York, N. Y. Preparation for prevention and treatment of infectious diseases. No. 132,432; June 22; v. 275; p. 820.
Klenaseptic Manufacturing Company, Columbus, Ohio. wall-paper-cleaner compounds. Nos. 128,417–18; Jan. 6; v. 270; p. 181.
Klima, Louis, New York, N. Y. Bloater paste, anchovy paste, sardine paste, &c. No. 131,521; May 18; v. 274; p. 155.
Kline, Clarence A., San Francisco, Calif. Engagement and wedding rings. No. 138,278; Dec. 21; v. 281; p. 565.
Klofanda and Company, Montfort, Wis. External and internal application for the relief of cold, croup, cough, &c. No. 129,483; Feb. 24; v. 271; p. 679.
Klor Early Co., Inc., Bluefield, W. Va. Aspirin. No. 128,419; Jan. 6; v. 270; p. 181.
Knapp, Harry A., Brooklyn, N. Y. Soap. No. 136,500; Nov. 2; v. 280; p. 183.
Knapp & Van Nostrand, Inc., New York, N. Y. Dried codfish. No. 138,042; Dec. 14; v. 281; p. 398.
Knickerbocker Chocolate Company, Inc., New York, N. Y. No. 130,197; Apr. 13; v. 273; p. 402.
Knickerbocker Clothing Co., St. Louis, Mo. Youths' and boy's outer garments. No. 135,724; Oct. 19; v. 279; p. 529.
Knickerbocker Watch Co., New York, N. Y. Watches. Nos. 130,331–2; Apr. 20; v. 273; p. 621.
Knickerbocker Watch Co., New York, N. Y. Watches. Nos. 131,156–8; May 4; v. 274; p. 198.
Knickerbocker Watch Co., New York, N. Y. Watches. No. 132,982; July 6; v. 276; p. 202.
Knickerbocker Watch Co., New York, N. Y. Watches. No. 133,154; July 13; v. 276; p. 402.
Knight, Charles V., Portsmouth, Va. Chill and fever tonic. No. 134,989; Sept. 21; v. 278; p. 532.
Knight, Harriet W., New York, N. Y. Concealing device for telephones. No. 136,501; Nov. 2; v. 276; p. 183.
Knight, William T., Shadyside, Ohio. Anti-tuberculosis relief medicine, &c. No. 136,056; Oct. 26; v. 279; p. 720.
Knipe Bros., Inc., Haverhill, Mass. Leather boots and shoes. No. 131,789; May 25; v. 274; p. 832.

Digitized by Google

Knopke, Raymond C., Chicago, Ill. Steel fenceposts. No. 130,530; Apr. 27; v. 273; p. 803.
Knowles, Taylor & Knowles Company, East Liverpool, Ohio. Table-pottery. No. 130,079; Apr. 6; v. 273; p. 180.
Knowlton Bros. Inc., Watertown, N. Y. Paper and stationery. No. 133,446; July 27; v. 276; p. 769.
Knox, Charles B., Gelatine Company, Inc., Johnstown, N. Y. Gelatin. No. 131,911; May 25; v. 274; p. 836.
Knox Hat Company, Inc., New York, N. Y. Clothing. No. 130,198; Apr. 13; v. 273; p. 402.
Knoxville Knitting Mills Company, Knoxville, Tenn. Hosiery. No. 137,295; Nov. 23; v. 280; p. 795.
Knudsen Laboratory, Los Angeles, Calif. Culture of *Bacillus bulgaricus* and milk fermented with same. No. 128,420; Jan. 6; v. 270; p. 181.
Kobayashi, Frank T., Los Angeles, Calif. Poison foods. No. 130,080; Apr. 6; v. 273; p. 180.
Kobb Brewing Co., Bay City, Mich. Non-alcoholic cereal beverages. No. 137,635; Nov. 30; v. 280; p. 998.
Koepsell, J. J., Company, Sheboygan, Wis. Asbestos sheet-packing, cotton and leather belting. No. 129,764; Mar. 9; v. 272; p. 365.
Kofller, Hyman, New York, N. Y. Trousers. No. 138,473; Dec. 28; v. 281; p. 783.
Kohirogawa, Harulchi, New York, N. Y. Neckties. No. 136,502; Nov. 2; v. 280; p. 183.
Kohler, Peter Cailler, Swiss Chocolates Co., Inc., New York, N. Y. Chocolates. No. 134,098; Aug. 10; v. 277; p. 391.
Kohlman, Chas., Co., Inc., New York, N. Y. Cotton piece goods. No. 131,159; May 4; v. 274; p. 198.
Kohn, Louis, Bradford, Pa. Overalls and shop-coats. No. 131,160; May 4; v. 274; p. 198.
Kohnstamm, H., & Co., New York, N. Y. Flavoring extracts for foods. No. 130,780; May 4; v. 274; p. 186.
Kohnstamm, H., & Co., New York, N. Y. Flavoring extracts for foods. No. 131,161; May 4; v. 274; p. 198.
Kohnstamm, H. & Co., New York, N. Y. Starch for laundry purposes and in treating textiles. No. 131,522; May 18; v. 274; p. 605.
Kohout, George A., Chicago, Ill. Stoking attachment for furnaces. No. 129,989; Mar. 16; v. 272; p. 539.
Koivisto, Kustaa, Portland, Oreg. Ready-mixed paint and rough-surface coating. No. 131,790; May 25; v. 274; p. 832.
Ko-Ka-Po Co., Minneapolis, Minn. Preparation used in making a soft drink and the drink. No. 129,293; Feb. 10; v. 271; p. 356.
Koken Barbers' Supply Company, St. Louis, Mo. Barbers' chairs. No. 129,009; Jan. 20; v. 270; p. 474.
Kokomar Company, Cleveland, Ohio. Oleomargarin. No. 130,781; May 4; v. 274; p. 186.
Kolbert, Edward & Sons, New York, N. Y. Ladies' coats and suits. No. 138,279; Dec. 21; v. 281; p. 565.
Kon. Ned. Maatschappij tot Exploitatie van Petroleumbronnen in Ned. Indië, The Hague, Netherlands. Turpentine and turpentine substitutes. No. 137,637; Nov. 30; v. 280; p. 998.
Konski, Herbert D., New York, N. Y., and Atlantic City, N. J. Pajamas, night-robes, blouses, &c. No. 137,636; Nov. 30; v. 280; p. 998.
Koppel Industrial Car & Equipment Company, Koppel and Pittsburgh, Pa. Steam-locomotives, bucket excavators, &c. No. 128,752; Jan. 13; v. 270; p. 340.
Koppel Industrial Car & Equipment Company, Koppel and Pittsburgh, Pa. Electric cars and trucks, car wheels and axles, &c. No. 129,990; Mar. 16; v. 272; p. 539.
Koppel Industrial Car & Equipment Company, Koppel and Pittsburgh, Pa. Electric locomotives and tractors. No 130,383; Apr. 20; v. 273; p. 621.
Koppel Industrial Car & Equipment Company, Koppel and Pittsburgh, Pa. Welded and riveted pipe, railway-spikes, &c. No. 130,782; May 4; v. 274; p. 186.
Koppel Industrial Car & Equipment Company, Koppel and Pittsburgh, Pa. Railway appliances and parts thereof. No. 130,783; May 4; v. 274; p. 186.
Koppers Company, Pittsburgh, Pa. Paints, varnishes, paint-oils, and resins. No. 131,791; May 25; v. 274; p. 832.
Kops Bros., New York, N. Y. Corsets and brassières. No. 130,784; May 4; v. 274; p. 186.
Kops Bros., New York, N. Y. Textile fabrics. No. 131,942; June 1; v. 275; p. 199.
Kops Bros., New York, N. Y. Corsets and brassières. No. 136,503; Nov. 2; v. 280; p. 184.
Kor-Doh Manufacturing Corporation, Poughkeepsie, N. Y. Hand-reamers, machine-reamers. No. 138,044; Dec. 14; v. 281; p. 398.
Korket Company, The, Detroit, Mich. Flush-tank outlet-valves. No. 133,714; Aug. 3; v. 277; p. 174.
Korn, Geo. W., Razor Mfg. Co., Little Valley, N. Y. Razors. No. 130,384; Apr. 20; v. 273; p. 621.
Kornhandler & Kane, New York, N. Y. Waists and blouses for outer wear. Nos. 136,057–8; Oct. 26; v. 279; p. 720.
Korrekt Pants Mfg. Co., St. Louis, Mo. Boys' pants. No. 138,280; Dec. 21; v. 281; p. 565.
Koss, Edward H., Washington, D. C. Ointment for the relief of colds in the head and chapped skin. No. 134,704; Sept. 14; v. 278; p. 357.
Kouri, Michel J., New York, N. Y. Wheat-flour. No. 129,010; Jan. 20; v. 270; p. 474.
Kraft, J. L., & Bros. Co., Chicago, Ill. Cheese of various kinds. No. 132,723; June 29; v. 275; p. 1016.
Kraft, J. L., & Bros. Co., Chicago, Ill., and New York, N. Y. Cheese. No. 134,008; Aug. 10; v. 277; p. 388.
Kramer, H., & Co., Chicago, Ill. Bearing metals and other metal products, consisting of castings. No. 137,296; Nov. 23; v. 280; p. 795.
Kramer Hosiery Co., Chicago, Ill. Hosiery for women and children. No. 129,484; Feb. 24; v. 271; p. 679.
Kramer, Louis W., Denver, Colo. Chemical compound to be placed in bowl of tobacco-pipe to counteract nicotin. No. 129,011; Jan. 20; v. 270; p. 474.
Kramer Rotary Harrow Co., Morton, Ill. Straw-spreaders. No. 136,059; Oct. 26; v. 279; p. 720.
Krank, A. J., Manufacturing Co., St. Paul, Minn. Beard-softener. No. 129,485; Feb. 24; v. 271; p. 679.
Krank, Alfred J., St. Paul, Minn. Skin-cleansing tonic and massage-cream. No. 136,845; Nov. 9; v. 280; p. 380.
Krantz Products Company, The, Findlay, Ohio. Non-alcoholic beverages. No. 133,447; July 27; v. 276; p. 769.
Krasberg Engineering and Manufacturing Corporation, Chicago, Ill. Phonograph-motors, (mechanical.) No. 138,281; Dec. 21; v. 281; p. 565.
Krasnow, R., & Sons, Inc., Brawley, Calif. Fresh fruits—namely, cantaloups. No. 137,297; Nov. 23; v. 280; p. 795.
Kraus, Carl B., Omaha, Nebr. Concrete-surfacing materials, &c. No. 136,846; Nov. 9; v. 280; p. 380.
Krause, Chas. A., Milling Co., Greenfield, Wis. Stock feed. No. 128,753; Jan. 13; v. 270; p. 340.
Krause, Chas. A., Milling Co., Greenfield, Wis. Poultry feed. No. 129,012; Jan. 20; v. 270; p. 474.
Krause, Chas. A., Milling Co., Greenfield, Wis. Breakfast food. No. 130,531; Apr. 27; v. 273; p. 803.
Krause, Chas. A., Milling Co., Greenfield, Wis. Stock-feed. No. 130,785; May 4; v. 274; p. 186.
Krebs, Ernst T., Carson City, Nev. Medicinal laxative. No. 129,765; Mar. 9; v. 272; p. 365.
Krebs, Ernst T., Carson City, Nev. Remedy for influenza, pneumonia, &c. No. 131,792; May 25; v. 274; p. 832.
Krebs, Ernst T., San Francisco, Calif. Preparation for pulmonary tuberculosis and all pulmonary affections. No. 135,725; Oct. 19; v. 279; p. 529.
Kreider, Herman E., Painesville, Ohio. Washing-soda and water-softener. No. 136,504; Nov. 2; v. 280; p. 184.
Kremo-lac Co., Inc., Brooklyn, N. Y. Liquid food. No. 136,060; Oct. 26; v. 279; p. 720.
Krenning-Schlapp Grocer Company, St. Louis, Mo. Washboards. No. 130,081; Apr. 6; v. 273; p. 180.
Krenning-Schlapp Grocer Company, St. Louis, Mo. Lamp-chimneys. No. 130,082; Apr. 6; v. 273; p. 180.
Krenning-Schlapp Grocer Company, St. Louis, Mo. Tea, coffee, chocolate, and cocoa. No. 130,335; Apr. 20; v. 273; p. 621.
Krenning-Schlapp Grocer Company, St. Louis, Mo. Canned milk. No 130,336; Apr. 20; v. 273; p. 621.
Krenning-Schlapp Grocer Company, St. Louis, Mo. Clotheslines. No. 130,786; May 4; v. 274; p. 186.
Kreo-Rub Chemical Co., Maryville, Tenn. Medicinal preparation for rheumatism, backache, lumbago, &c. No. 131,334; May 11; v. 274; p. 400.
Kreps, Harry, Jersey City, N. J. Hosiery. No. 137,298; Nov. 23; v. 280; p. 795.
Krieg Wallace & McQuaide, Charleston, W. Va. Stomach and liver tablets. No. 128,754; Jan. 13; v. 270; p. 340.
Krinsky, I. B., Inc., Estate of, New York, N. Y. Cigarettes, little cigars, and smoking-tobacco. No. 135,269; Sept. 28; v. 278; p. 703.
Krolik, A., & Company, Detroit, Mich., and New York, N. Y. Men's flannel, work, and night shirts and pajamas. No. 132,983; July 6; v. 276; p. 202.
Krower-Tynberg Co., Inc., New York, N. Y. Cotton and silk piece goods and mixtures of same and linen, &c. No. 136,061; Oct. 26; v. 279; p. 720.
Krower-Tynberg Co., Inc., New York, N. Y. Cotton and silk piece goods, &c. No. 136,505; Nov. 2; v. 280; p. 184.
Krug, Fred, Products Co., Omaha, Nebr. Non-intoxicating malt beverage. No. 134,403; Aug. 31; v. 277; p. 973.
Ktenaveas, Stratos D., Washington, D. C. Preparation that destroys dandruff, stops falling out of hair, &c. No. 130,787; May 4; v. 274; p. 186.
Kuhlman & Chambliss Co., Inc., Knoxville, Tenn. Chemicals, medicines, &c. No. 129,013; Jan. 20; v. 270; p. 474.
Kullman, Salz & Co., San Francisco, Calif. Hides and leather. No. 131,162; May 4; v. 274; p. 198.
Kullman, Salz & Co., San Francisco, Calif. Hides and leathers. Nos. 132,734-5; June 29; v. 275; p. 1016.
Kullman, Salz & Co., San Francisco, Calif. Hides and leather. No. 132,984; July 6; v. 276; p. 202.
Kullman, Salz & Co., San Francisco, Calif. Hides and leather. No. 134,705; Sept. 14; v. 278; p. 357.
Kullman, Salz & Co., San Francisco, Calif. Hides and leather. No. 136,062; Oct. 26; v. 279; p. 720.
Kullman, Salz & Co., San Francisco, Calif. Hides and leather. No. 137,299; Nov. 23; v. 280; p. 795.
Kummel, Albert, New York, N. Y. Infants' wearing-apparel, &c. No. 138,282; Dec. 21; v. 281; p. 565.
Kunhardt & Co., Inc., New York, N. Y. Dyestuffs and food-colors. No. 129,486; Feb. 24; v. 271; p. 679.

Alphabetical list of registrants of trade-marks—Continued.

Kunzemann, John J., Brooklyn, N. Y. Automobile-mirrors. No. 134,990; Sept. 21; v. 278; p. 532.
Kupfer, Henry, & Son, Chicago, Ill. Candies and sweetmeats. No. 138,045; Dec. 14; v. 281; p. 398.
Kupferman, Chas. A., Co., New York, N. Y. Ladies' muslin and silk underwear. No. 131,793; May 25; v. 274; p. 832.
Kuppenheimer, B., & Co., Chicago, Ill. Men's and boys' suits, overcoats, &c. No. 128,755; Jan. 13; v. 270; p. 340.
Kurdle, Thomas J., Company, The, Baltimore, Md. Hams, bacon, and lard. No. 129,294; Feb. 10; v. 271; p. 356.
Kurman, Sonia, New York, N. Y. Hair-tonic. No. 134,706; Sept. 14; v. 278; p. 357.
Kurz Bros. Inc., New York, N. Y. Ladies' hats. No. 132,184; June 15; v. 275; p. 618.
Kushiro, Manzaburo, South Pasadena, Calif. Packed miso, &c. No. 129,014; Jan. 20; v. 270; p. 474.
Kux Brothers, Cleveland, Ohio. Women's suits, dresses, and skirts. No. 130,788; May 4; v. 274; p. 187.
Kwick-Bath Mfg. Corporation, Wilson, N. C. Canning apparatus. No. 128,756; Jan. 13; v. 270; p. 340.
Kwikmix Manufacturing Co., New York, N. Y. Soft-drink-mixing machines. No. 133,715; Aug. 3; v. 277; p. 174.
Kytros, Anthony M., Salt Lake City, Utah. Medicinal compound used in the treatment of rheumatism, kidney disease, &c. No. 129,487; Feb. 24; v. 271; p. 679.
L. A. Sea Food Packing Co., East San Pedro, Calif. Canned fish. No. 130,911; May 4; v. 274; p. 190.
L. A. Sea Food Packing Co., East San Pedro, Calif. Canned fish. No. 131,174; May 4; v. 274; p. 198.
L. & S. Products Co., Washington, D. C., assignor to Purity Creamery Company, Baltimore, Md. Coffee and peanut-butter. No. 128,489; Jan. 6; v. 270; p. 183.
L. and T. Company, The, Oakland, Calif. Table-syrup. No. 132,985; July 6; v. 276; p. 202.
Laakman, Edward M., Farmington, Mo. Preparations for treatment of eczema and other skin and scalp eruptions. No. 134,991; Sept. 21; v. 278; p. 532.
Labor American Publishing Company, The, Indianapolis, Ind. Monthly periodical. No. 138,046; Dec. 14; v. 281; p. 398.
Laboratorio Chimico Farmac. V. Baldacci, Pisa, Italy. Pharmaceutical preparation. No. 138,474; Dec. 28; v. 281; p. 783.
Laboratorio Chimico Farmac. V. Baldacci, Pisa, Italy. Pharmaceutical preparation for the pulmonary organs. No. 138,475; Dec. 28; v. 281; p. 783.
Laboratorio San Pietro, Chicago, Ill. Stomach and nerve tonic, appetiser, &c. No. 138,191; Dec. 14; v. 281; p. 405.
Lacey, Roscoe B., Grand Rapids, Mich. Electric spark-timer for automobile-engines. No. 131,794; May 25; v. 274; p. 832.
Lackenbach, Fred I., San Francisco, Calif. Medical periodical publication. No. 137,300; Nov. 23; v. 280; p. 795.
Laclede-Christy Clay Products Company, St. Louis, Mo. High-temperature cement for the construction and repair of furnaces. No. 134,707; Sept. 14; v. 278; p. 357.
Laclede-Christy Clay Products Company, St. Louis, Mo. Fire-brick and fire-tile. No. 136,847; Nov. 9; v. 280; p. 380.
La Crosse Plow Company, La Crosse, Wis. Plows, cultivators, harrows, &c. No. 138,047; Dec. 14; v. 281; p. 398.
La Crosse Refining Company, La Crosse, Wis. Maltose-syrup for use in the manufacture of near beer. No. 136,506; Nov. 2; v. 280; p. 184.
Ladew, Edward R., Company, Inc., Glen Cove, N. Y. Leather belting. No. 129,766; Mar. 9; v. 272; p. 365.
La Dora Toilet Preparations, Inc., New York, N. Y. Toilet preparations. No. 128,421; Jan. 6; v. 270; p. 181.
Lady Fair Gown Co., Chicago, Ill. Ladies' clothing. No. 138,283; Dec. 21; v. 281; p. 565.
Lady Jane Hat Shops, Inc., New York, N. Y. Clothing. No. 136,063; Oct. 26; v. 279; p. 720.
Lady Jefferson Candy Company, Birmingham, Ala. Candies. No. 132,726; June 29; v. 275; p. 1016.
La Fayette Motor Company, Indianapolis, Ind. Automobiles. Nos. 134,404–5; Aug. 31; v. 297; p. 973.
Lafferty, Herbert D., Oakland, Calif. Toy vehicles of the coaster type. No. 131,009; May 4; v. 274; p. 193.
Lafferty, Herbert D., Oakland, Calif. Force-feed oilers. No. 131,523; May 18; v. 274; p. 605.
La France, Ward, Truck Co. Inc., Elmira, N. Y. Motor-trucks. No. 133,086; July 6; v. 276; p. 205.
Lafrons, Nicola, West New York, N. J. Phonographs. No. 137,818; Dec. 7; v. 281; p. 197.
Laing, Arthur, Springfield, Mass. Medicinal preparations as a general tonic. No. 138,192; Dec. 14; v. 281; p. 405.
Lake Reedy Packing Co., Frostproof, Fla. Fresh citrus fruits. No. 130,532; Apr. 27; v. 273; p. 803.
Lake Reedy Packing Company, Frostproof, Fla. Citrus fruits. No. 130,533; Apr. 27; v. 273; p. 803.
Lake Superior Loader Co., Duluth, Minn. Mechanical shovels. No. 136,848; Nov. 9; v. 280; p. 380.
Lake Wales Citrus Growers Association, Lake Wales, Fla. Citrus fruits. No. 130,337; Apr. 20; v. 273; p. 621.
Laks & Zucker, New York, N. Y. Trunks, suitcases, &c. No. 137,506; Nov. 23; v. 280; p. 803.
Lamar, Taylor & Riley Drug Co., Macon, Ga. Skin-soap. No. 132,484; June 22; v. 275; p. 820.
Lamar, Taylor & Riley Drug Co., Macon, Ga. Skin-cream. No. 133,716; Aug. 3; v. 277; p. 174.
Lamb Railway Service Co., Ltd., Windsor, Canada, and Detroit, Mich. Automobile and furniture finish. No. 134,708; Sept. 14; v. 278; p. 357.
Lambert, A. W., Jr., & Company, St. Louis, Mo. Soaps. No. 131,524; May 18; v. 274; p. 605.
Lamborn & Co., New York, N. Y. Textile fabrics—namely, netting and bunting and silk piece goods. No. 130,338; Apr. 20; v. 273; p. 621.
Lamborn & Co., New York, N. Y. Prepared felt roofing. No. 130,339; Apr. 20; v. 273; p. 621.
Lamborn & Co., New York, N. Y. Lubricating-oils. No. 131,795; May 25; v. 274; p. 832.
Lamborn & Co., New York, N. Y. Sugar, American wheat-flour, and tea. No. 134,406; Aug. 31; v. 277; p. 973.
Lamie Chemical Company, Huntington, W. Va. Dyes. No. 131,335; May 11; v. 274; p. 400.
Lammers, Matthew, Oostburg, Wis. Milkers. No. 137,301; Nov. 23; v. 280; p. 795.
La Monte, George, & Son, Nutley, N. J., and New York, N. Y. Safety-paper. No. 131,010; May 4; v. 274; p. 193.
Lamson and Goodnow Manufacturing Company, Shelburne Falls, Mass. Steel knives. No. 131,528; May 18; v. 274; p. 605.
Lanclaux, George A., Indian Orchard, Springfield, Mass. Preparation for laryngitis, pharyngitis, &c. No. 129,488; Feb. 24; v. 271; p. 679.
Land-Dilks Co., Richmond, Ind. Kitchen-cabinets. No. 130,534; Apr. 27; v. 273; p. 803.
Landenberger, Franklin L., Philadelphia, Pa. Hosiery. No. 128,422; Jan. 6; v. 270; p. 181.
Landers, Frary & Clark, New Britain, Conn. Electrically-driven apparatus. No. 128,757; Jan. 13; v. 270; p. 340.
Landers, Frary & Clark, New Britain, Conn. Cooking and kitchen utensils of aluminum. No. 132,186; June 15; v. 275; p. 618.
Landers, Frary & Clark, New Britain, Conn. Food-choppers. No. 135,866; Oct. 19; v. 279; p. 535.
Lane, Willey B., Chicago, Ill. Ratchet-wrenches. No. 130,995; May 4; v. 274; p. 193.
Lange Canning Co., Eau Claire, Wis. Canned vegetables. No. 136,849; Nov. 9; v. 280; p. 380.
Lange, H. T., Company, Eau Claire, Wis. Canned fruits and vegetables, &c. No. 129,015; Jan. 20; v. 270; p. 474.
Lange Soap Co., San Antonio, Tex. Soap. No. 134,992; Sept. 21; v. 278; p. 532.
Lange Soap Co., San Antonio, Tex. Soap. No. 136,507; Nov. 2; v. 280; p. 184.
Langenberg Hat Company. St. Louis, Mo. Men's and boys' caps and hats. No. 131,011; May 4; v. 274; p. 193.
Langenberg Hat Company, St. Louis, Mo. Leather and fabric gloves. No. 132,435; June 22; v. 275; p. 820.
Langerre Sales Co., Inc., New York, N. Y. Yarns. No. 128,423; Jan. 6; v. 270; p. 181.
Langert Aronson Candy Company, Seattle, Wash. Candied nuts, shelled nuts, both salted and unsalted, &c. No. 136,508; Nov. 2; v. 280; p. 184.
Langfelder & Shrier, New York, N. Y. Dresses. No. 133,270; July 20; v. 276; p. 591.
Langford, Thomas W., Savannah, Ga. Preparation for indigestion, heartburn, &c. No. 129,489; Feb. 24; v. 271; p. 679.
Lanman & Kemp, New York, N. Y. Anilin colors, dry and liquid dye-colors, dyes, and dyestuffs. No. 131,526; May 18; v. 274; p. 605.
Lantz, Charles H., Manhattan, Kans. Medicinal spray for the throat and nose. No. 129,767; Mar. 9; v. 272; p. 365.
La Parfait Mfg. Co., Pittsburgh, Pa. Furniture-polish. No. 137,302; Nov. 23; v. 280; p. 795.
Lapeyre, Ben E., Great Falls, Mont. Toilet cream. No. 133,155; July 13; v. 276; p. 402.
Lapeyre Brothers, Great Falls, Mont. Toilet cream for the skin. No. 134,407; Aug. 31; v. 277; p. 973.
La Pierre Manufacturing Co., Newark, N. J. Concentrated writing-ink. No. 132,185; June 15; v. 275; p. 618.
Laporte, Ernest W., New Orleans, La. Non-alcoholic beverages and flavoring syrups. No. 131,525; May 18; v. 274; p. 605.
Larabee Flour Mills Corporation, Hutchinson, Kans., and Kansas City, Mo. Wheat-flour. Nos. 136,850–3; Nov. 9; v. 280; p. 380.
Larabee Flour Mills Corporation, The, Hutchinson, Kans., and Kansas City, Mo. Wheat-flour. No. 138,048; Dec. 14; v. 281; p. 399.
Larco Wrench and Mfg. Corporation, Chicago, Ill. Wrenches, pipe-cutters, clamps, lathe-dogs. No. 131,336; May 11; v. 274; p. 401.
Large & Roomy Overall Mfg. Co., The. Overalls and pants. No. 132,187; June 15; v. 275; p. 618.
Larivee, Laura J., Detroit, Mich. Scalp-ointment. No. 134,993; Sept. 21; v. 278; p. 532.
Larkin Co., Buffalo, N. Y. Electric vacuum-cleaners and automobile spark-plugs. No. 136,509; Nov. 2; v. 280; p. 184.
Larkin Co., Buffalo, N. Y. Fireless cookers. No. 138,049; Dec. 14; v. 281; p. 399.
La Rose Company, St. Louis, Mo. Ladies' shirt-waists. No. 133,444; July 27; v. 276; p. 769.

Digitized by Google

Larrabee-Deyo Motor Truck Company, Inc., Binghamton, N. Y. Motor-trucks. No. 129,991; Mar. 16; v. 272; p. 539.
Larson, L. P., Jr., Company, Chicago, Ill. Confection. No. 130,789; May 4; v. 274; p. 187.
Larson, L. P., Jr., Company, Chicago, Ill. Chewing-gum. No. 131,337; May 11; v. 274; p. 401.
Larson, L. P., Jr., Co., Chicago, Ill. Confection known as mints. No. 132,009; June 8; v. 275; p. 414.
Larus & Brother Company, Richmond, Va. Smoking and chewing tobacco. No. 128,424; Jan. 6; v. 270; p. 181.
Larus & Brother Company, Richmond, Va. Plug-tobacco. No. 130,083; Apr. 6; v. 273; p. 180.
Larus & Brother Company, Richmond, Va. Smoking-tobacco. No. 136,064; Oct. 26; v. 279; p. 720.
Laserson, Frederick M., New York, N. Y. Electrically-operated cloth-cutters and cloth-cutting machines. No. 132,188; June 15; v. 275; p. 618.
Lash, Charles M., Columbus, Ohio. Reliners. No. 138,050; v. 281; p. 399.
Lash's Bitters Co., New York, N. Y. Non-alcoholic beverage. No. 134,994; Sept. 21; v. 278; p. 532.
Lathrop, H. R., & Co., New York, N. Y. Haarlem oil for kidney, liver, bladder, rheumatism, and uric-acid troubles. No. 131,527; May 18; v. 274; p. 605.
Latta-Martin Pump Co., Hickory, N. C. Certain named cutlery, machinery, and tools, and parts thereof. Nos. 128,758–60; Jan. 13; v. 270; p. 340.
Latty, John W., St. Louis, Mo. Remedy for cuts, burns, &c. No. 128,761; Jan. 13; v. 270; p. 540.
Laubheim Bros., New York, N. Y. Jewelry and precious-metal ware. No. 132,436; June 22; v. 275; p. 820.
Laubheim Bros., New York, N. Y. Watches. No. 134,995; Sept. 21; v. 278; p. 532.
Laug, John, Lakewood, N. J. Candy. No. 134,408; Aug. 31; v. 277; p. 973.
Laughlin, E. A., Lumber Co., Port Arthur, Tex. Ready-cut parts of a building. No. 135,476; Oct. 12; v. 279; p. 344.
Laughlin, Thomas, Co., Portland, Me. Metal links for chains. No. 135,477; Oct. 12; v. 279; p. 344.
Laundry Supplies Corporation, Richmond, Va. Preparation for cleansing purposes. No. 131,163; May 4; v. 274; p. 198.
Lawden Company, The, New York, N. Y. Non-alcoholic non-cereal maltless syrups. No. 129,016; Jan. 20; v. 270; p. 474.
Lawless, Robert L., Danville, Va. Preparation for treatment of cancers, tumors, &c. No. 128,762; Jan. 13; v. 270; p. 340.
Lawrence Airplane Model and Supply Company, Chicago, Ill. Toy airplanes. No. 134,709; Sept. 14; v. 278; p. 357.
Lawrence Airplane Model and Supply Company, Chicago, Ill. Toy airplanes. No. 135,478; Oct. 12; v. 279; p. 344.
Lawrence, Augustine H., New York, N. Y. Monthly periodical giving stock-market information, &c. No. 135,726; Oct. 19; v. 279; p. 529.
Lawrence Canning Co., Rockland, Me. Canned fish. No. 130,790; May 4; v. 274; p. 187.
Lawrence Canning Co., Rockland, Me. Sardines. No. 134,710; Sept. 14; v. 278; p. 357.
Lawrence, E., & Co., Chicago, Ill. Remedy for corns, callouses, warts, &c. No. 129,490; Feb. 24; v. 271; p. 679.
Lawrence, E., & Co., Chicago, Ill. Toilet preparations. No. 129,768; Mar. 9; v. 272; p. 365.
Lawrence Knitting Company, Wilmington, Del., and Philadelphia, Pa. Knitted underwear. No. 128,763; Jan. 13; v. 270; p. 340.
Lawrence, W. W., & Company, Pittsburgh, Pa. Paste paints, ready-mixed, enamel, flat, and oil paints, varnish stains, and clear varnish. No. 136,065; Oct. 26; v. 279; p. 720.
Lawrenceburg Roller Mills Co., Lawrenceburg, Ind. Wheat-flour. No. 132,986; July 6; v. 276; p. 202.
Lawry, Rolla C., St. Louis, Mo. Preparation used as a deodorant and a relief for excessive perspiration. No. 132,505; June 22; v. 275; p. 820.
Lawson & Company, Incorporated, New York, N. Y. Machinery and tools and attachments therefor. No. 130,535; Apr. 27; v. 273; p. 803.
Lawson, Robert, & Sons, Philadelphia, Pa. Trousers. No. 130,791; May 4; v. 274; p. 187.
Lazell Perfumer, Newburgh, N. Y. Toilet preparations. No. 134,711; Sept. 14; v. 278; p. 357.
Lazell Perfumer, Newburgh, N. Y. Toilet preparations. No. 138,200; Dec. 14; v. 281; p. 406.
Lazier, Martin, Steubenville, Ohio. Directory published periodically and by districts. No. 135,727; Oct. 19; v. 279; p. 529.
Lea, R. J., Limited, Manchester, England. Smoking-tobacco. No. 135,728; Oct. 19; v. 279; p. 529.
Leabarjan Manufacturing Company, The, Hamilton, Ohio. Music-sheet-perforating machines. No. 137,638; Nov. 30; v. 280; p. 998.
Leach-Biltwell Motor Company, Los Angeles, Calif. Automobiles. No. 132,010; June 8; v. 275; p. 414.
Leach Patch Company, The, Indianapolis, Ind. Tube-patches. No. 133,156; July 13; v. 276; p. 402.
Lead Products Company, St. Louis, Mo. Lead products—namely, red lead, litharge, and orange mineral. No. 133,717; Aug. 3; v. 277; p. 174.
Leadenhall Press, Limited, The, London, England. Adhesive pastes and mucilages. No. 136,511; Nov. 2; v. 280; p. 184.
Leader Plow Co. Inc., The, Staunton, Va. Garden-plows. No. 128,425; Jan. 6; v. 270; p. 181.
Leavitt Mfg. Co., Urbana, Ill. Portable seats known as bleachers. No. 133,450; July 27; v. 276; p. 770.
Lebedjeff, V. V., Engineering & Supply Corp., New York, N. Y. Steel and steel and iron nail-wire, bright hard wire, &c. No. 136,854; Nov. 9; v. 280; p. 380.
Lebhers, Harry J., Frederick, Md. Bottle-cappers. No. 137,303; Nov. 23; v. 280; p. 795.
Le Blond, R. K., Machine Tool Company, The. Lathes. No. 132,189; June 15; v. 275; p. 618.
Lebro Mfg. Co., Pittsburgh, Pa. Medicinal, pharmaceutical, and toilet preparations. No. 136,510; Nov. 2; v. 280; p. 184.
Ledder & Probst, Inc., Boston, Mass. Holders for ink-bottles. No. 137,639; Nov. 30; v. 280; p. 998.
Lee, Gilbert C., Los Angeles, Calif. Devices for preventing combustion. No. 136,512; Nov. 2; v. 280; p. 184.
Lee, H. D., Mercantile Co., The, Salina, Kans., and Kansas City, Mo. Work-clothes. No. 129,176; Jan. 27; v. 270; p. 615.
Lee, H. D., Mercantile Co., Salina, Kans., and Kansas City, Mo. Wearing-apparel. No. 130,792; May 4; v. 274; p. 187.
Lee, H. D., Mercantile Co., The, Salina, Kans., and Kansas City, Mo., assignors to Kansas Book Dealers Association. Writing-tablets. No. 131,529; May 18; v. 274; p. 605.
Lee, Harry C., & Company, New York, N. Y. Tennis-rackets, golf clubs and balls, skates. No. 128,426; Jan. 6; v. 270; p. 181.
Lee, Harry C., & Company, New York, N. Y. Golf-balls. No. 128,427; Jan. 6; v. 270; p. 181.
Lee, Harry C., & Company, Inc., New York, N. Y. Golf-balls. No. 133,424; July 27; v. 276; p. 769.
Lee Loader & Body Company, Chicago, Ill. Trailers, motor and hand trucks, and dumping-bodies. No. 137,314; Nov. 23; v. 280; p. 795.
Lee Tire & Rubber Company, New York, N. Y. Tires, tubes, patches, &c. No. 135,867; Oct. 19; v. 279; p. 535.
Lee, William E., Plant City, Fla. Fresh fruits. Nos. 136,066–7; Oct. 26; v. 279; p. 720.
Lee, William E., Plant City, Fla. Fresh citrus fruit. No. 136,068; Oct. 26; v. 279; p. 720.
Lee, William G., Oakland, Calif. Separators, insulators, or partitions used in lighting, &c. No. 138,051; Dec. 14; v. 281; p. 399.
Leedom, Theodore C., Oil City, Pa. Evaporated milk. No. 135,479; Oct. 12; v. 279; p. 344.
Lefler, Dr. Edmund S., Hot Springs, Ark. Preparation for the treatment of rheumatism, &c. No. 128,428; Jan. 6; v. 270; p. 181.
Legallet Heilwig Norton Company, San Francisco, Calif. Leather. No. 138,052; Dec. 14; v. 281; p. 399.
Leggett & Brother, Inc., New York, N. Y. Insecticides. No. 138,476; Dec. 28; v. 281; p. 783.
Leggett, Francis H., & Co., New York, N. Y. Flours. No. 129,017; Jan. 20; v. 270; p. 474.
Leggett, Francis H., & Co., New York, N. Y. Cigars. No. 130,793; May 4; v. 274; p. 187.
Lehman Brothers, Inc., Easton, Pa. Ladies' silk and cotton woven underwear. No. 131,164; May 4; v. 274; p. 198.
Lehmann Machine Company, St. Louis, Mo. Lathes. No. 138,193; Dec. 14; v. 281; p. 405.
Lehn & Fink, Inc., New York, N. Y. Antiseptic and disinfectant. No. 128,764; Jan. 13; v. 270; p. 340.
Lehn & Fink, Inc., New York, N. Y. Cold-cream. No. 129,491; Feb. 24; v. 271; p. 679.
Lehn & Fink, Inc., New York, N. Y. Preparation for coloring the hair. No. 129,769; Mar. 9; v. 272; p. 365.
Lehn & Fink, Inc., New York, N. Y. Soap and shaving-soap in cream form. No. 135,729; Oct. 19; v. 279; p. 529.
Lehn & Fink, Inc., New York, N. Y. Shaving cream and soap. No. 137,640; Nov. 30; v. 280; p. 998.
Lehon Company, The, Chicago, Ill. Construction material. No. 133,271; July 20; v. 276; p. 591.
Leibowitz, Herman, New York, N. Y. Ladies' wearing-apparel consisting of dresses only. No. 138,396; Dec. 21; v. 281; p. 571.
Leicht, George, Hancock, N. Y. Heave remedy for horses. No. 131,530; May 18; v. 274; p. 605.
Leighton Supply Co., Fort Dodge, Iowa. Ointments and salves. No. 136,069; Oct. 26; v. 279; p. 720.
Leitner, Henry, and William H. Exley, London, England. Electric accumulators or secondary batteries. No. 132,987; July 6; v. 276; p. 202.
Lekko Soap Company, Chicago, Ill. Powder for cleaning and scouring. No. 132,437; June 22; v. 275; p. 820.
Lemon, Ernest N., Lynchburg, Ohio. Eggs for hatching and poultry. No. 134,009; Aug. 10; v. 274; p. 388.
Lemon Pekoe Tea Corporation, The, New York, N. Y. Tea. No. 137,304; Nov. 23; v. 280; p. 795.
Lemp, William J., Sappington, Mo. Butter, milk, hams, &c. No. 129,018; Jan. 20; v. 270; p. 474.
Lennon, John F., Providence, R. I. Wheat-flour. No. 130,084; Apr. 6; v. 273; p. 180.
Lennon, John F., Providence, R. I. Wheat-flour. No. 131,531; May 18; v. 274; p. 605.

Digitized by Google

Lenox Jewelry Co., Boston, Mass. Horological instruments. No. 130,199; Apr. 13; v. 273; p. 403.
Leoffler, S. G., Jr., Washington, D. C. Doughnuts. No. 132,988; July 6; v. 276; p. 202.
Leoffler, Severn G., Jr., Washington, D. C. Prepared lunches in package form. No. 132,011; June 8; v. 275; p. 415.
Leonard, Andrew J., West Branch, Mich. Hand-washing compounds. No. 134,010; Aug. 10; v. 277; p. 388.
Leonard, Ralph O., Park Place, Tex. Remedy to be used as a mouth-wash. No. 132,728; June 29; v. 275; p. 1016.
Leopold Solomon and Eisendrath, Chicago, Ill. Men's and boys' suits, vests, trousers, and overcoats. No. 131,165; May 4; v. 274; p. 198.
Leota Food Products Co., Oak Park, Ill. Food. No. 134,011; Aug. 10; v. 277; p. 388.
Leppert, David, Kent, Wash. Washing-powder. No. 129,770; Mar. 9; v. 272; p. 365.
Leprince, Maurice, Paris, France. Remedy for the treatment of venereal diseases. No. 134,996; Sept. 21; v. 278; p. 532.
Lerner Waist Co., New York, N. Y. Clothing. No. 130,340; Apr. 20; v. 273; p. 621.
Lersch, Verne D., Wellington, Ohio. Breakfast foods. No. 134,251; Aug. 24; v. 277; p. 778.
Lesher, Whitman & Co., Inc., New York, N. Y. Piece goods. No. 129,966; Mar. 9; v. 272; p. 371.
Lesher, Whitman & Co., Inc., New York, N. Y. Fabric made with a cotton warp. No. 132,729; June 29; v. 275; p. 1017.
Lesher, Whitman & Co. Inc., New York, N. Y. Fabric made with cotton warp and filling of wool, mohair, &c. No. 132,989; July 6; v. 276; p. 202.
Lesher, Whitman & Co., New York, N. Y. Suitings and dress goods for clothing for men, women, and Children. No. 136,070; Oct. 26; v. 279; p. 720.
Leslie, Harry C., Denver, Colo. Butter and cheese. No. 130,536; Apr. 27; v. 273; p. 803.
Lesser Manufacturing Company, Olean, N. Y. Liquid spray for animals. No. 131,796; May 25; v. 274; p. 832.
Letz Manufacturing Company, The, Crown Point, Ind. Stock-feed crushers and feed-grinders and parts thereof, &c. No. 133,718; Aug. 3; v. 277; p. 174.
Lev, Abraham, Philadelphia, Pa. Medicine for gout and certain named ailments. No. 133,451; July 27; v. 267; p. 770.
Levac, Aime, Montreal, Quebec, Canada. Anti-insect powders. No. 137,305; Nov. 23; v. 280; p. 795.
Lever Brothers Company, Cambridge, Mass. Soap dyes. No. 128,429; Jan. 6; v. 270; p. 181.
Lever Brothers Company, Cambridge, Mass. Cooking compound comprising oils and hydrogenated oils. No. 134,252; Aug. 24; v. 277; p. 778.
Lever Brothers Company, Cambridge, Mass. Soap. No. 137,641; Nov. 30; v. 280; p. 998.
Levin, Charles D., New York, N. Y. Men's outer suits and overcoats. No. 133,719; Aug. 3; v. 277; p. 174.
Levine, L., and Sons, Cincinnati, Ohio. Women's and misses' outer clothing. No. 137,306; Nov. 23; v. 280; p. 795.
Levinson, Daniel L., Chicago, Ill. Powdered preparation for making a fruit acid, and spice-flavored marmalade and jam. No. 130,341; Apr. 20; v. 273; p. 621.
Leviola Talking Machine Sales Corporation. (See American Cabinet Manufacturing Corporation, assignor.)
Levor, Victor, Attica, Ind. Cigars. No. 130,085; Apr. 6; v. 273; p. 180.
Levy, B. H., Bro. & Co., Savannah, Ga. Men's suits and overcoats. No. 130,794; May 4; v. 274; p. 187.
Levy, B. H., Bro. & Co., Savannah, Ga. Boys' suits and overcoats. No. 131,166; May 4; v. 274; p. 198.
Levy Chemical Co., The, New York, N. Y. Garment-bags. No. 135,868; Oct. 19; v. 279; p. 535.
Levy, Clara, New York, N. Y. Gelatinous substance for cleaning carpets, clothing, &c. No. 137,307; Nov. 23; v. 280; p. 795.
Levy & Fish, New York, N. Y. Table and shelf oil-cloths, enameled cloth. No. 131,168; May 4; v. 274; p. 198.
Levy, George C., New York, N. Y. Catamenial bandage. No. 130,086; Apr. 6; v. 273; p. 180.
Levy, Joseph, Boston, Mass. Time-stamps. No. 130,537; Apr. 27; v. 273; p. 803.
Levy, Joseph L., Philadelphia, Pa. Sanitary paper cover for toilet seats. No. 132,730; June 29; v. 275; p. 1017.
Levy, Julius, Sons Co., Memphis, Tenn. Clothing. No. 136,071; Oct. 26; v. 279; p. 720.
Levy, Julius, Sons Co., Memphis, Tenn. Textile fabrics. No. 136,072; Oct. 26; v. 279; p. 720.
Levy, Julius, Sons Co., Memphis, Tenn. Clothing. No. 136,073; Oct. 26; v. 279; p. 720.
Levy, Lewis, Philadelphia, Pa. Dresses. No. 131,167; May 4; v. 274; p. 198.
Levy, M. S., & Sons, Inc., Baltimore, Md. Hats for men and women. No. 136,513; Nov. 2; v. 280; p. 184.
Levy, Maurice, New York, N. Y. Toothbrushes. No. 132,990; July 6; v. 276; p. 202.
Levy, Maurice, New York, N. Y. Paper towels. No. 135,480; Oct. 12; v. 279; p. 344.
Levy, Moe, & Son, New York, N. Y. Clothing. No. 138,194; Dec. 14; v. 281; p. 405.
Levy, S. J., & Sons, New York, N. Y. Men's and boys' hosiery. No. 137,308; Nov. 23; v. 280; p. 795.
Levy, S. J., & Sons, New York, N. Y. Women's and misses' hosiery. No. 137,309; Nov. 23; v. 280; p. 795.
Levy & Schilt, New York, N. Y. Young men's outer garments. No. 130,342; Apr. 20; v. 273; p. 621.
Levy & Schilt, New York, N. Y. Men's outer garments. No. 130,343; Apr. 20; v. 273; p. 621.
Levy, Sidney, San Francisco, Calif. Garters, armbands, &c. No. 130,200; Apr. 13; v. 273; p. 403.
Lew, Samuel W., Chicago, Ill. Suits, pants, coats, &c. No. 129,366; Feb. 17; v. 271; p. 508.
Lewin, Louis, Company, Chicago, Ill. Overalls. Nos. 138,284–5; Dec. 21; v. 281; p. 565.
Lewis, Connors & Company, Chicago, Ill. Logarithmic-scale computing devices. No. 130,344; Apr. 20; v. 273; p. 621.
Lewis, Florence N., New York, N. Y. Face-powders. No. 130,201; Apr. 13; v. 273; p. 403.
Lewis, Florence N., New York, N. Y. Cake face-powder. No. 131,532; May 18; v. 274; p. 605.
Lewis, Florence N., New York, N. Y. Toilet cream. No. 136,514; Nov. 2; v. 280; p. 184.
Lewis, Harry M., Atwood, Ill. Non-alcoholic maltless beverages. No. 138,286; Dec. 21; v. 281; p. 565.
Lewis Implement and Seed Company, Louisville, Ky. Garden, vegetable, and field seeds. No. 130,202; Apr. 13; v. 273; p. 403.
Lewis, J. L., New York, N. Y. Collodion self-toning printing-out paper. No. 133,157; July 13; v. 276; p. 403.
Lewis Manufacturing Company, Walpole, Mass. Sanitary napkins. No. 130,795; May 4; v. 274; p. 187.
Lewis Manufacturing Company, Walpole, Mass. Textile fabrics. No. 133,720; Aug. 3; v. 277; p. 174.
Lewis, Newton, Fort Myers, Fla. Shampoo. No. 137,310; Nov. 23; v. 280; p. 795.
Leyendecker, Robert E., New York, N. Y. Washing-powder. No. 130,013; Mar. 23; v. 272; p. 731.
Leyerle, Dan L., Webb City, Mo. Liver-tonic. No. 129,771; Mar. 9; v. 272; p. 365.
Libby, McNeill & Libby, Chicago, Ill. Corned beef. No. 130,203; Apr. 13; v. 273; p. 403.
Libby, McNeill & Libby, Chicago, Ill. Certain named foods. Nos. 132,012–13; June 8; v. 275; p. 415.
Libby, McNeill & Libby, Chicago, Ill. Canned milk. No. 138,053; Dec. 14; v. 281; p. 399.
Libby-Stilwell, Laura J., Brooklyn, N. Y. Newspaper articles, film and dramatic compositions, &c. No. 137,082; Nov. 16; v. 280; p. 586.
Liberty Boys' Knee Pants Co., New York, N. Y. Boys' pants and coats. No. 133,452; July 27; v. 276; p. 770.
Liberty Bread Slicer Company, Inc., Rochester, N. Y. Bread-slicing machines. No. 131,338; May 11; v. 274; p. 401.
Liberty Carbon Company, Clarksburg, W. Va., and Langley, Ky. Carbon-black. No. 129,295; Feb. 10; v. 271; p. 356.
Liberty Chain Company, Aberdeen, S. D. Tire grip-chains. No. 130,345; Apr. 20; v. 273; p. 621.
Liberty Hosiery Company, The, Rock Hill, S. C. Men's half-hose. No. 134,997; Sept. 21; v. 278; p. 533.
Liberty Knife Company, The, New Haven, Conn. Pocket-knives. No. 136,515; Nov. 2; v. 280; p. 134.
Liberty Steel Products Co., New York, N. Y. Tool and gear steel. No. 130,538; Apr. 27; v. 273; p. 803.
Liberty Steel Products Company, Inc., New York, N. Y. Steel buildings. No. 133,453; July 27; v. 276; p. 770.
Liberty Steel Products Company, Inc., New York, N. Y. Rubber tires. No. 134,712; Sept. 14; v. 278; p. 357.
Lichtenstein, Chas. A., New York, N. Y. Pearls. No. 135,730; Oct. 19; v. 279; p. 529.
Lichtenstein & Company Limited, Uxbridge, England. Coloring matters for foods and liquids. No. 134,713; Sept. 14; v. 278; p. 357.
Lichtenstein & Company Limited, Uxbridge, England. Caramel, burnt, brewing, and colored sugars. No. 137,039; Nov. 16; v. 280; p. 584.
Liebich, G. J., Co., Chicago, Ill. Paints and painters' materials. No. 131,533; May 18; v. 274; p. 605.
Liebovitz, S., & Sons, Inc., New York, N. Y. Dress and work shirts, &c. No. 129,367; Feb. 17; v. 271; p. 508.
Liebs, L. A., Co., Inc., New York, N. Y. Box-cover wrappers, package and shipping labels and tags. No. 132,731; June 29; v. 275; p. 1017.
Liggett & Myers Tobacco Company, New York, N. Y. Cigarettes. No. 128,430; Jan. 6; v. 270; p. 181.
Liggett & Myers Tobacco Company, New York, N. Y. Tobacco and cigarettes. No. 130,087; Apr. 6; v. 273; p. 180.
Liggett & Myers Tobacco Company, New York, N. Y. Cigarette-paper. No. 130,796; May 4; v. 274; p. 187.
Liggett & Myers Tobacco Company, New York, N. Y. Cigarettes. No. 133,272; July 20; v. 276; p. 591.
Liggett & Myers Tobacco Company, New York, N. Y. Tobacco and cigarettes. No. 133,454; July 27; v. 276; p. 770.
Liggett & Myers Tobacco Company, New York, N. Y. Cigarettes. No. 133,455; July 27; v. 276; p. 770.
Liggett & Myers Tobacco Company, New York, N. Y. Cigarettes. No. 134,714; Sept. 14; v. 278; p. 357.
Liggett & Myers Tobacco Company, New York, N. Y. Cigarettes. No. 135,273; Sept. 28; v. 278; p. 703.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Liggett & Myers Tobacco Company, New York, N. Y. Smoking and chewing tobacco. No. 136,516; Nov. 2; v. 280; p. 565.
Light Metals Co., Roselle Park, N. J. Light-metal alloys. No. 130,539; Apr. 27; v. 273; p. 803.
Lighting Studios Company, New York, N. Y. Glassware for lighting-fixtures. No. 129,296; Feb. 10; v. 271; p. 356.
Lilliputian Specialty Co., New York, N. Y. Knitted sweaters. No. 129,368; Feb. 17; v. 271; p. 508.
Lilly, Eli, & Company, The, Indianapolis, Ind. Expectorant and cough-sedative. No. 131,304; May 11; v. 274; p. 399.
Lilly, Eli, & Co., The, Indianapolis, Ind. Disinfectant and germicide preparation. No. 131,452; May 18; v. 274; p. 603.
Lilly, Eli, & Company, The, Indianapolis, Ind. Cascara preparations. No. 131,745; May 25; v. 274; p. 831.
Lilly, Eli, & Company, The, Indianapolis, Ind. Sodium salicylate preparations. No. 131,746; May 25; v. 274; p. 831.
Lilly, Eli, & Company, The, Indianapolis, Ind. Anti-epileptic, anticephalalgic, hypnotic, and sedative preparations. No. 131,747; May 25; v. 274; p. 831.
Lilly, Eli, & Company, The, Indianapolis, Ind. Expectorant and bronchial sedative. No. 134,715; Sept. 14; v. 278; p. 357.
Lilly, Eli, & Company, The, Indianapolis, Ind. Medicinal preparation of hexamethylenamin. No. 134,998; Sept. 21; v. 278; p. 533.
Lilly, Eli, & Company, The, Indianapolis, Ind. Headache-tablets, pills, and capsules. No. 134,999; Sept. 21; v. 278; p. 533.
Lilly, George L., Jacksonville, Fla. General tonic. No. 135,000; Sept. 21; v. 278; p. 533.
Lily Cup Company, The, New York, N. Y. Paper or pulp towels. No. 135,001; Sept. 21; v. 278; p. 533.
Limoges China Company, The, Sebring, Ohio. China cups, saucers, plates, and food-dishes. No. 135,731; Oct. 19; v. 279; p. 529.
Limpert Bros., Inc., New York, N. Y. An extract having a maple flavor. No. 130,797; May 4; v. 274; p. 187.
Lincoln Electric Company, The, Cleveland, Ohio. Electric motors. No. 136,722; Nov. 2; v. 280; p. 191.
Lincoln Manufacturing Company, Detroit, Mich. Ornamental art electric-lighting fixtures. No. 135,002; Sept. 21; v. 278; p. 533.
Lincoln Tire & Rubber Co., Cleveland, Cincinnati, Dayton, Youngstown, Toledo, Piqua, and Troy, Ohio, and Miami, Fla. Rubber vehicle-tires, casings, and tubes. No. 137,311; Nov. 23; v. 280; p. 795.
Lincoln Typewriter Co., New York, N. Y. Typewriters. No. 137,642; Nov. 30; v. 280; p. 998.
Lindberg, Johan W., Stockholm, Sweden. Attachments for preventing the displacements of keys from keyholes. No. 135,732; Oct. 19; v. 279; p. 529.
Lindeke, Warner & Sons, Incorporated, St. Paul, Minn. Silks in the piece. No. 132,190; June 15; v. 275; p. 618.
Lindenmeyr, Henry, & Sons, New York, N. Y. Printing and writing paper. No. 135,274; Sept. 28; v. 278; p. 703.
Linder Bros, Philadelphia, Pa. Ladies' and misses' coats and suits. No. 137,507; Nov. 23; v. 280; p. 804.
Lindh, Charles E., Inc., Philadelphia, Pa. Piece goods. No. 134,510; Sept. 7; v. 278; p. 160.
Lindner, David J., New York, N. Y. Chamois-skins and sponges. No. 131,169; May 4; v. 274; p. 198.
Lindner Shoe Co., Carlisle, Pa. Boots, shoes, &c. No. 128,765; Jan. 13; v. 270; p. 340.
Line Drive Tractor Inc., Chicago, Ill. Tractors. No. 135,481; Oct. 12; v. 279; p. 344.
Linehan-Conover Company, Worcester, Mass. Corsets, corset-waists, and brassières. No. 131,170; May 4; v. 274; p. 198.
Linehan-Conover Company, Worcester, Mass. Corsets, corset-waists, brassières. No. 138,478; Dec. 28; v. 281; p. 783.
Link-Belt Company, Chicago, Ill.; Philadelphia, Pa., and Indianapolis, Ind. Idlers and rolls for conveying machinery. No. 132,438; June 22; v. 275; p. 820.
Link-Belt Company, Chicago, Ill.; Philadelphia, Pa., and Indianapolis, Ind. Idlers and rolls for conveying machinery. No. 138,721; Aug. 3; v. 277; p. 174.
Linley, Joseph A., London, England. Chilled fresh beef, mutton, lamb, and veal. No. 136,074; Oct. 26; v. 279; p. 721.
Linotol Flooring Co. Inc., New York, and Brooklyn, N. Y., Composition flooring. No. 136,855; Nov. 9; v. 280; p. 380.
Linsk, Harry J., Philadelphia, Pa. Ladies', misses', and children's dresses. No. 137,820; Dec. 7; v. 281; p. 197.
Linton, Robert H., New York, N. Y. Cotton and woolen piece goods. No. 138,548; Dec. 28; v. 281; p. 786.
Lion Brewery of New York City, New York, N. Y. Malt beverages, extracts, and liquors. No. 133,722; Aug. 3; v. 277; p. 174.
Lion Knitting Mills Co., The, Cleveland, Ohio. Knitted capes and mufflers. No. 130,346; Apr. 20; v. 273; p. 621.
Lion Manufacturing Company, Omaha, Nebr. Suspenders, waist-belts, garters, &c. No. 131,171; May 4; v. 274; p. 198.
Lion Supply Company, The, La Fayette, Ind. Pneumatic tires of rubber and fabric. No. 136,075; Oct. 26; v. 279; p. 721.
Lipinsky, S. H., Company, Inc., The, Huntington, Ind. Cigars. No. 136,273; Oct. 26; v. 279; p. 727.
Lippitt, Thomas P., Washington, D. C., and San Juan, Porto Rico. Fresh fruits. No. 128,481; Jan. 6; v. 270; p. 181.
Lipshitz, Abraham, New York, N. Y. Handkerchiefs. No. 129,772; Mar. 9; v. 272; p. 365.
Liquid Carbonic Company, Chicago, Ill. Non-alcoholic beverages and syrups therefor. No. 137,643; Nov. 30; v. 280; p. 998.
Liquid Carbonic Company, Chicago, Ill. Flavoring-syrups. No. 137,819; Dec. 7; v. 281; p. 197.
Lisenby Manufacturing Company, Fresno, Calif. Printing-presses and parts thereof. No. 130,347; Apr. 20; v. 273; p. 622.
Lisenby Manufacturing Company, Fresno, Calif. Printing-presses and parts thereof. No. 134,511; Sept. 7; v. 278; p. 160.
Little, A. E., Company, Lynn, Mass. Boots, shoes, leggings, or puttees. No. 131,172; May 4; v. 274; p. 198.
Little Duchess Dress Co., Inc., New York, N. Y. Style-catalogs. No. 136,517; Nov. 2; v. 280; p. 184.
Little Goddess Dress Co. Inc., The, New York, N. Y. Children's dresses. No. 134,012; Aug. 10; v. 277; p. 388.
Livingston, Samuel, & Son, Washington, D. C. Suits, overcoats, hats, &c., for men and boys. No. 135,733; Oct. 19; v. 279; p. 529.
Lloyd, Richard L., Minneapolis, Minn. Toy bowling-game apparatus. No. 137,312; Nov. 23; v. 280; p. 795.
Lloyd, William M., Company, Philadelphia, Pa. Coal. No. 137,313; Nov. 23; v. 280; p. 795.
Lob, Albert, New York, N. Y. Dry powders for cleaning and restoring fabrics and removing tarnish from metals. No. 136,076; Oct. 26; v. 279; p. 721.
Locke, H. E., & Company, Inc., Boston, Mass. Threads and yarn. No. 129,177; Jan. 27; v. 270; p. 615.
Locke, H. E., & Company, Inc., Boston, Mass. Thread and yarn. No. 130,088; Apr. 6; v. 273; p. 180.
Locke, H. E., & Company, Boston, Mass. Thread and yarn. No. 130,204; Apr. 13; v. 273; p. 403.
Locke, H. E., & Company, Inc., Boston, Mass. Thread and yarn. No. 130,206; Apr. 13; v. 273; p. 403.
Locke, H. E., & Company, Inc., Boston, Mass. Thread and yarn. No. 132,991; July 6; v. 276; p. 202.
Locke, H. E., & Company, Boston, Mass. Thread and yarn. No. 134,716; Sept. 14; v. 278; p. 357.
Locke, H. E., & Company, Inc., Boston, Mass. Thread and yarn. No. 135,371; Sept. 28; v. 278; p. 707.
Locke, H. E., & Company, Inc., Boston, Mass. Thread and yarn. No. 136,077; Oct. 26; v. 279; p. 721.
Locke, H. E., Company, Inc., Boston, Mass. Bag-thread. No. 138,054; Dec. 14; v. 281; p. 890.
Locke, Insulator Manufacturing Company, The, Baltimore, Md. Insulators for high-tension insulation. No. 134,717; Sept. 14; v. 278; p. 357.
Locke Shoe Co., Wheeling, W. Va. Leather boots and shoes. No. 130,798; May 4; v. 274; p. 187.
Locke Steel Chain Company, The, Bridgeport, Conn. Sprocket and driving chains for agricultural and other machinery and apparatus. No. 132,439; June 22; v. 275; p. 820.
Lockhart Corundum & Lens Corporation, Southbridge, Mass. Emery and corundum for abrasive and polishing purposes. No. 128,432; Jan. 6; v. 270; p. 181.
Locktite Patch Company, Detroit, Mich. Valves for automobile fuel-tanks. No. 136,078; Oct. 26; v. 279; p. 721.
Lockwood-Ash Motor Company, Jackson, Mich. Spark-plugs and spark-plug porcelains. No. 138,395; Dec. 21; v. 281; p. 570.
Lockwood, John M., Jr., West Hoboken, N. J. Dolls. No. 130,089; Apr. 6; v. 273; p. 181.
Locomotive Pulverized Fuel Company, New York, N. Y. Engines, locomotives, and their parts, motors, &c. No. 131,534; May 18; v. 274; p. 605.
Loeb, Herbert A., New York, N. Y. Nurses' uniforms and elements thereof. No. 129,178; Jan. 27; v. 270; p. 615.
Loeb, S. S., & Co., Boston, Mass. Clothing. No. 133,723; Aug. 3; v. 277; p. 174.
Loeb & Schoenfeld Company, Wilmington, Del.; Camden, N. J., and New York, N. Y. Handkerchiefs. No. 128,433; Jan. 6; v. 270; p. 181.
Loewer's, V., Gambrinus Brewery Co., New York, N. Y. Non-alcoholic malt extract. No. 130,207; Apr. 13; v. 273; p. 403.
Loewer's, V., Gambrinus Brewery Co., New York, N. Y. Non-alcoholic malt beverages. No. 133,724; Aug. 3; v. 277; p. 174.
Loewus, G., & Co., Jersey City, N. J. Non-intoxicating fruit beverages. No. 131,912; May 25; v. 274; p. 836.
Logan Iron & Steel Company, Philadelphia, Pa. Staybolt-iron. No. 137,315; Nov. 23; v. 280; p. 796.
Logan, Newton D., Boston, Mass. Cream preparation for cleansing and polishing furniture, &c. No. 138,479; Dec. 28; v. 281; p. 783.

Digitized by Google

Logan, Thos. H., Co., Hudson, Mass. Boots and shoes. No. 133,848; Aug. 3; v. 277; p. 178.

Lohr, William, New York, N. Y., assignor, by mesne assignments, to Jersey Biscuit Company, Newark, N. J. Candy, chocolate, cake, bread, &c. No. 136,079; Oct. 26; v. 279; p. 721.

Lomax Co., The, Chicago, Ill. Non-alcoholic, maltless, non-cereal, carbonated beverage. No. 137,821; Dec. 7; v. 281; p. 197.

London "O-T" Limited, Blackfriars, London, England, and Prahran, Victoria, Australia. Lemon-squash and lime juice. No. 131,536; May 18; v. 274; p. 605.

London, Samuel, & Co., Inc., New York, N. Y. Dress, negligée, and work shirts. No. 134,718; Sept. 14; v. 278; p. 357.

London Shoe Company, New York, N. Y. Shoes. No. 136,518; Nov. 2; v. 280; p. 184.

Lone Prairie Remedies Co., San Antonio, Tex. Medicine for tick-fever in animals. No. 134,719; Sept. 14; v. 278; p. 357.

Long, A. J., Cigar & Grocery Co., Macon, Ga. Cigars. No. 133,725; Aug. 3; v. 277; p. 174.

Long-Bell Lumber Company, The. Kansas City, Mo. Finished and unfinished lumber. No. 131,913; May 25; v. 274; p. 836.

Long Handkerchief Co. Inc., Passaic, N. J., and New York, N. Y. Handkerchiefs. No. 135,734; Oct. 19; v. 279; p. 529.

Long, Lawrence R., San Antonio, Tex. Face-powder, rouge, &c. No. 131,339; May 11; v. 274; p. 401.

Longhorn Drilling & Development Association. Fort Worth, Tex. Well-drilling machinery and tools and well equipment. No. 131,537; May 18; v. 274; p. 605.

Longino & Collins, New Orleans, La. Butter. No. 134,013; Aug. 10; v. 277; p. 388.

Longmont Farmers Milling & Elevator Co., The, Longmont, Colo. Wheat-flour. No. 133,726; Aug. 3; v. 277; p. 174.

Longmont Farmers Milling & Elevator Co., The, Longmont, Colo. Wheat-flour. No. 138,055; Dec. 14; v. 281; p. 899.

Longmont Farmers Milling & Elevator Company, The, Longmont, Colo. Self-rising flour. No. 138,287; Dec. 21; v. 281; p. 565.

Loos & Dilworth, Philadelphia, Pa. Core-oils. No. 132,191; June 15; v. 275; p. 618.

Loos, Reinhold, Newark, N. J. Rope-clamp. No. 131,173; May 4; v. 274; p. 198.

Loose-Wiles Biscuit Company, Chicago, Ill. Cookies. No. 129,179; Jan. 27; v. 270; p. 615.

Loose-Wiles Biscuit Company, New York, N. Y. Cakes, wafers, crackers. Nos. 130,349–50; Apr. 20; v. 273; p. 622.

Loose-Wiles Biscuit Company, New York, N. Y. Cakes, wafers, and crackers or biscuits. No. 132,193; June 15; v. 275; p. 618.

Loose-Wiles Biscuit Company, Long Island City, N. Y. Cakes, crackers, and biscuits. No. 132,192; June 15; v. 275; p. 618.

Loose-Wiles Biscuit Company, Long Island City, N. Y. Cakes, wafers, and crackers or biscuits. No. 138,288; Dec. 21; v. 281; p. 565.

Lopez, V., & Company, Inc., New York, N. Y. Butter. No. 131,535; May 18; v. 274; p. 605.

Lorain Rubber Heel Company, Lorain, Ohio. Rubber heels. No. 135,270; Sept. 28; v. 278; p. 703.

Lord & Taylor, New York, N. Y. Synthetic pearls. No. 132,194; June 15; v. 275; p. 618.

Lord & Taylor, New York, N. Y. Shoes. No. 135,271; Sept. 28; v. 278; p. 703.

Lorenz Company, Everett, Mass., assignor to Mihalovitch Brothers Company, Cincinnati, Ohio. Perfumes, tooth and toilet powders, &c. No. 131,538; May 18; v. 274; p. 605.

Lorenz Company, The, Everett, Mass., assignor to Mihalovitch Brothers Company, Cincinnati, Ohio. Toilet lotion. No. 131,539; May 18; v. 274; p. 606.

Lorenz Company, The, Everett, Mass. Tooth and foot powders. No. 131,540; May 18; v. 274; p. 606.

Lorenzen, Chas F., & Co., Chicago, Ill. Letters or numbers made of highly-glazed porcelain blocks. Nos. 132,992–3; July 6; v. 276; p. 202.

Lorenzen, Chas. F., & Co., Chicago, Ill. Letters or numbers made of highly-glazed porcelain blocks. No. 133,273; July 20; v. 276; p. 591.

Lorillard, P., Company, New York, N. Y. Cigars, little cigars, and cigarettes. No. 133,489; July 27; v. 276; p. 771.

Lorraine Watch Co. Inc., New York, N. Y. Watches. No. 134,014; Aug. 10; v. 277; p. 388.

Lortex Company, New York, N. Y. Textile fabrics. No. 130,351; Apr. 20; v. 273; p. 622.

Los Angeles Examiner, Los Angeles, Calif. Newspaper-sections. Nos. 133,456–8; July 27; v. 276; p. 770.

Lotus Cut Glass Company, Barnesville, Ohio. Articles formed of cut glass. No. 130,208; Apr. 13; v. 273; p. 403.

Lotus Magazine Foundation, Inc., The, New York, N. Y. Monthly magazine. No. 134,512; Sept. 7; v. 278; p. 160.

Loudenslager, J. E., Littleton, W. Va. Scalp, face, and skin treatment liquids and pile-remedy ointment. No. 133,459; July 27; v. 276; p. 770.

Loughridge, Matthew H., Bogota, N. J. Tubular tags used on insulated wires. No. 128,766; Jan. 13; v. 270; p. 340.

Louis Brun Fils, Arre, France. Stockings and socks. Nos. 130,659–60; May 4; v. 274; p. 183.

Louis Drug Co., The, Bay City, Mich. Solvent for removal of corns, &c. No. 128,767; Jan. 13; v. 270; p. 340.

Louis Lewin Company, Chicago, Ill. Overalls. No. 138,477; Dec. 28; v. 281; p. 783.

Louisiana Motor Car Company, Inc., Shreveport, La. Automobiles. No. 134,720; Sept. 14; v. 278; p. 357.

Louisville Food Products Company, Louisville, Ky. Soap. No. 132,440; June 22; v. 275; p. 820.

Louisville Food Products Company, Louisville, Ky. Soap powder. No. 137,644; Nov. 30; v. 280; p. 998.

Louisville Paint Mfg. Co., Louisville, Ky. Ready-mixed and paste paints, varnishes, &c. Nos. 137,005–6; Nov. 9; v. 280; p. 388.

Lounsbury, John M., Milwaukee, Wis. Calcium-magnesium oxids. No. 138,480; Dec. 28; v. 281; p. 783.

Lovsted, Carl M., Seattle, Wash. Electric steam alarm-whistles. No. 130,799; May 4; v. 274; p. 187.

Lowe, Jacob J., Boston, Mass. X-ray apparatus for determining the fit of footwear. No. 134,721; Sept. 14; v. 278; p. 357.

Lowe, Joe, Co., Inc., New York, N. Y. Bread, cake, pies, and ice-cream. No. 137,645; Nov. 30; v. 280; p. 998.

Lowe & Lowe, Washington, D. C. Decorated hand-painted garment-hangers, shoe-trees, &c. No. 129,180; Jan. 27; v. 270; p. 615.

Lowenstein, M., & Sons, Inc., New York, N. Y. Unbleached, dyed, and printed drills, twills, and sheeting. No. 133,727; Aug. 3; v. 277; p. 174.

Lowenstein Radio Company, Inc., Brooklyn, N. Y., and Newark and Elizabeth, N. J. Photographic developers. No. 128,768; Jan. 13; v. 270; p. 340.

Lower California Packing Plants, Los Angeles, Calif. Canned fish. No. 134,015; Aug. 10; v. 277; p. 389.

Lowman Drug Co., Orangeburg, S. C. Liquid compound for external use in treating inflammation, colds, &c. No. 129,492; Feb. 24; v. 271; p. 679.

Lown, Pearl E., Oklahoma, Okla. Tire-patches. No. 130,352; Apr. 20; v. 273; p. 622.

Lowney, Walter M., Company, The, Boston, Mass. Candy. No. 130,800; May 4; v. 274; p. 187.

Lowney, Walter M., Company, The, Boston, Mass. Candy. Nos. 131,175–7; May 4; v. 274; p. 198.

Lowry Laboratory, Inc., Hoboken, N. J. Solutions of medicinal arsenical compounds. No. 132,441; June 22; v. 275; p. 820.

Loyer, Mary A., Denver, Colo. Tablet containing radium therapeutic qualities. No. 132,732; June 29; v. 275; p. 1017.

Lubec Sardine Co., Lubec, Me. Canned sardines. No. 128,434; Jan. 6; v. 270; p. 181.

Lubec Sardine Company, Lubec, Me. Canned sardines. No. 129,019; Jan. 20; v. 270; p. 474.

Lubrite Refining Company, St. Louis, Mo. Petroleum products. No. 128,435; Jan. 6; v. 270; p. 182.

Lucile Somarco Brassiere Co., New York, N. Y. Brassières. No. 137,316; Nov. 23; v. 280; p. 796.

Ludcke Picture Screen Co., The, St. Peter, Minn. Moving-picture screens. No. 137,822; Dec. 7; v. 281; p. 197.

Ludeman, Henry J. F., Pittsburgh, Pa. Bricks and building-blocks. No. 133,274; July 20; v. 276; p. 591.

Ludewig, Fred'k., & Co., New York, N. Y. Elastic veil. No. 131,943; June 1; v. 275; p. 199.

Ludlow, Bertha A., Caldwell, N. J. Dry medicated asthma and bronchial shields. No. 135,003; Sept. 21; v. 278; p. 533.

Ludlum Steel Company, Watervliet, N. Y. Magnet-steel. No. 137,823; Dec. 7; v. 281; p. 197.

Ludlum Steel Company, Watervliet, N. Y. Ball-bearing steel. No. 137,824; Dec. 7; v. 281; p. 197.

Ludlum Steel Company, Watervliet, N. Y. Drill-steel and carbon twist-drill steel. No. 137,826; Dec. 7; v. 281; p. 197.

Ludlum Steel Company, Watervliet, N. Y. Ball-bearing steel. No. 137,827; Dec. 7; v. 281; p. 197.

Ludwig, Arthur I., New York, N. Y. Textile fabrics. No. 135,004; Sept. 21; v. 278; p. 533.

Ludwig, Arthur I., New York, N. Y. Cotton piece goods. No. 136,080; Oct. 26; v. 279; p. 721.

Lukens, C. Dewitt. Surgical Manufacturing Co., St. Louis, Mo. Dental, medical, and surgical appliances. No. 130,158; July 13; v. 276; p. 403.

Lukin, Nicholas, New York, N. Y. Laxative. No. 137,646; Nov. 30; v. 280; p. 999.

Luminous Specialty Company, Indianapolis, Ind. Lighting units—namely, translucent reflectors for semi-indirect illumination. No. 135,275; Sept. 28; v. 278; p. 703.

Lummus Cotton Gin Company, Columbus, Ga. Machinery. No. 131,178; May 4; v. 274; p. 198.

Lumoff and Evanove, Seattle, Wash. Lotions. No. 131,797; May 25; v. 274; p. 832.

Lundborg Company, The, New York, N. Y. Perfume, toilet water, face-powder, toilet cream, and sachet. No. 131,541; May 18; v. 274; p. 606.

Lundstrom, C. J., Mfg. Co., Little Falls, N. Y. Talking-machine cabinets. No. 128,436; Jan. 6; v. 270; p. 182

Lunkenheimer Co., The, Cincinnati, Ohio. Mechanical lubricators. No. 133,161; July 13; v. 276; p. 403.

Alphabetical list of registrants of trade-marks—Continued.

Lunkenheimer Company, Cincinnati, Ohio. Pipe-fittings, valves, and nozzles. No. 129,181; Jan. 27; v. 270; p. 615.
Lunkenheimer Company, The, Cincinnati, Ohio. Oil-cups. No. 131,340; May 11; v. 274; p. 401.
Lunkenheimer Company, The, Cincinnati, Ohio. Oil pumps. No. 131,341; May 11; v. 274; p. 401.
Lunkenheimer Company, The, Cincinnati, Ohio. Oil-cups. No. 131,342; May 11; v. 274; p. 401.
Lunkenheimer Company, The, Cincinnati, Ohio. Oil-cups. No. 132,442; June 22; v. 275; p. 820.
Lunkenheimer Company, The, Cincinnati, Ohio. Grease-cups. Nos. 132,443–4; June 22; v. 275; p. 820.
Lunkenheimer Company, The, Cincinnati, Ohio. Grease-cups. Nos. 133,159–60; July 13; v. 276; p. 403.
Lunkenheimer Company, The, Cincinnati, Ohio. Chime whistles. No. 136,723; Nov. 2; v. 280; p. 191.
Lunkenheimer Company, The, Cincinnati, Ohio. Grease cups. Nos. 136,724–5; Nov. 2; v. 280; p. 192.
Lunn & Sweet Co., Auburn, Me. Leather shoes and juliettes. No. 133,728; Aug. 3; v. 277; p. 174.
Lurie, John, Inc., New York, N. Y. Clothing. No. 137,317; Nov. 23; v. 280; p. 796.
Lustr-Ite Corporation, Brooklyn, N. Y. Pomade, salve or medicinal compound for the finger-nails. No. 129,773; Mar. 9; v. 272; p. 365.
Lustr-Ite Corporation, Brooklyn, N. Y. Nail-files, manicure-sticks, emery-boards, &c. No. 130,540; Apr. 27; v. 273; p. 803.
Lustr-Ite Corporation, The, Brooklyn, N. Y. Toilet preparations. No. 134,722; Sept. 14; v. 278; p. 357.
Luther Grinder Manufacturing Company, Milwaukee, Wis. Tool-grinding machines. No. 135,251; Sept. 28; v. 278; p. 703.
Luthy Storage Battery Company, Newark, N. J. Storage batteries. No. 134,016; Aug. 10; v. 277; p. 389.
Luthy Storage Battery Company, Newark, N. J. Storage batteries. No. 137,318; Nov. 23; v. 280; p. 796.
Lux Manufacturing Co., New York, N. Y., and Newark, N. J. Electric lamps. No. 137,040; Nov. 16; v. 280; p. 584.
Luxite Silk Products Co., Milwaukee, Wis. Underwear. No. 133,729; Aug. 3; v. 277; p. 174.
Lycoming Foundry and Machine Co., Williamsport, Pa. Gasolene-motors. No. 137,828; Dec. 7; v. 281; p. 197.
Lydon Manufacturing Co., Chicago, Ill. Spark-plugs. No. 131,542; May 18; v. 274; p. 606.
Lyman, Walter M., Philadelphia, Pa. Animal-blankets. No. 137,319; Nov. 23; v. 280; p. 796.
Lynard, John, Owatonna, Minn. Eggs, poultry, and butter. No. 130,801; May 4; v. 274; p. 187.
Lynch, Helen, Chicago, Ill. Face-powder. No. 138,481; Dec. 28; v. 281; p. 783.
Lynch, William C., Washington, D. C. Ointment for piles, burns, boils, &c. No. 131,343; May 11; v. 274; p. 401.
Lynchburg Foundry Company, Lynchburg, Va. Plows and parts thereof. No. 130,802; May 4; v. 274; p. 189.
Lynchburg Shoe Company, Lynchburg, Va. Boots and shoes of leather, &c. No. 134,409; Aug. 31; v. 277; p. 973.
Lynn-Kerr & Co., Louisville, Ky. Pattern-hats for misses, women, and children. No. 134,723; Sept. 14; v. 278; p. 357.
Lyon & Greenleaf Co., Ligonier, Ind. Wheat-flour. No. 132,733; June 29; v. 275; p. 1017.
Lyon and Healy, Chicago, Ill. Pedals for musical instruments. No. 132,734; June 29; v. 275; p. 1017.
Lyon & Healy, Chicago, Ill. Banjos, mandolins, guitars, &c. No. 135,272; Sept. 28; v. 278; p. 703.
Lyon & Healy, Chicago, Ill. Store display-cabinets. No. 135,735; Oct. 19; v. 279; p. 529.
Lyon & Healy, Chicago, Ill. Cornets, trumpets, trombones, tenor, baritone, and bass horns. No. 135,736; Oct. 19; v. 279; p. 529.
Lyon & Healy, Chicago, Ill. Pianos. No. 136,081; Oct. 26; v. 279; p. 721.
Lyon & Healy, Chicago, Ill. Piano pedals. No. 136,082; Oct. 26; v. 279; p. 721.
Lyons, Arthur H., Philadelphia, Pa. Storage batteries and parts thereof. Nos. 132,994–5; July 6; v. 276; p. 202.
Lyons Ignition Company, Paterson, N. J. Spark-plugs. No. 128,769; Jan. 13; v. 270; p. 340.
Lyster Chemical Company, Augusta, Me., and New York, N. Y. Preservative preparation for vegetable fibers. No. 128,770; Jan. 13; v. 270; p. 340.
Lyster Chemical Company, Augusta, Me., and New York, N. Y. Spray for animals. No. 128,771; Jan. 13; v. 270; p. 340.
Lyster Chemical Company, Augusta, Me., and New York, N. Y. Concentrated extract for use in making soft drinks and syrups. No. 129,297; Feb. 10; v. 271; p. 356.
Lyster Chemical Company, New York, N. Y. Non-alcoholic soft drink. No. 136,083; Oct. 26; v. 279; p. 721.
M-C Syndicate, Philadelphia, Pa. Articles on current events for children. No. 131,186; May 4; v. 274; p. 198.
M. & G. Novelty Company, Attleboro, Mass. Lingerie, scarf, collar, and bib clasps. No. 134,727; Sept. 14; v. 278; p. 358.
M. & M. Company, Scranton, Pa. Coats, trousers, vests, overcoats, outer skirts, and suits for men, women, and children. No. 137,328; Nov. 23; v. 280; p. 796.
M W M Soap Co., San Jose, Calif. Soap. No. 135,008; Sept. 21; v. 278; p. 533.
McAbee, G. R., Powder & Oil Company, Pittsburgh, Pa. Permissible, &c., explosives. No. 136,084; Oct. 26; v. 279; p. 721.
McAdam, Charles, Company, Chicago, Ill. Cleanser for fabrics. No. 128,437; Jan. 6; v. 270; p. 182.
McAdam, Charles, Company, Chicago, Ill. Glove-bleach. No. 128,438; Jan. 6; v. 270; p. 182.
McAdam, Charles, Co., Chicago, Ill. Prepared liquid shellacs, lacquers, &c. No. 137,320; Nov. 23; v. 280; p. 796.
McCandless, H. W., & Company, New York, N. Y., assignor to Westinghouse Lamp Company. Incandescent electric lamps. No. 136,856; Nov. 9; v. 280; p. 380.
McCarthy, Charles S., Jr., Sandusky, Ohio. Cultivators. No. 133,730; Aug. 3; v. 277; p. 174.
McCaskey Register Company, Alliance, Ohio. Manifolding books and bill-pads. No. 129,774; Mar. 9; v. 272; p. 365.
McClaren Rubber Company, Charlotte, N. C. Rubber or rubber and fabric tires and tubes for vehicles. No. 135,006; Sept. 21; v. 278; p. 533.
McClintic-Marshall Products Company, Pittsburgh, Pa. Structural steel. No. 132,014; June 8; v. 275; p. 415.
McClure, Ulysses G., Chicago, Ill. Preparations for the treatment of eczema, acne, &c. No. 132,575; June 22; v. 275; p. 824.
McCollough, W. A., & Sons, Webster City, Iowa. Watering-fountains for poultry and feed-hoppers for stock and poultry. No. 134,410; Aug. 31; v. 277; p. 973.
McComb Brothers, Searsdale, N. Y. Liquid furniture-polish. No. 133,731; Aug. 3; v. 277; p. 174.
McConaghy, Anna V., Washington, D. C. Insecticides. No. 134,513; Sept. 7; v. 278; p. 160.
McConnell, G. C., & Co., Ford, Mich. Waterless hand-soap. No. 129,775; Mar. 9; v. 272; p. 365.
McCord Co., The, San Francisco, Calif. Daily paper. No. 137,321; Nov. 23; v. 280; p. 796.
McCormick & Co., Baltimore, Md. Extracts and flavors. No. 130,803; May 4; v. 274; p. 187.
McCormick & Co., Baltimore, Md. Lubricating, rust-preventing, and machine oils. No. 133,732; Aug. 3; v. 277; p. 174.
McCormick & Co., Baltimore, Md. Insect-powders. No. 134,319; Aug. 24; v. 277; p. 782.
McCoy, Frank G., Baltimore, Md. Salve for piles. No. 136,519; Nov. 2; v. 280; p. 184.
McCrackin, Furman B., Bamberg, S. C. Medicine used in the treatment of chills, fever, malaria, &c. No. 134,725; Sept. 14; v. 278; p. 358.
McCreary, Harry, Indiana, Pa. Rubber automobile-tires. No. 136,007; Nov. 9; v. 280; p. 388.
McDonald Bros. Co., Minneapolis, Minn. Suspenders and dress-shields. No. 132,015; June 8; v. 275; p. 415.
McDonald, J. G., Chocolate Co., Salt Lake City, Utah. Chocolates. No. 128,772; Jan. 13; v. 270; p. 340.
McDougall Brothers, Limited, Manchester, England. Insecticides. No. 131,543; May 18; v. 574; p. 606.
McDowell, Pyle & Co., Inc., Baltimore, Md. Candies. No. 130,804; May 4; v. 274; p. 187.
McElwain, W. H., Company, Boston, Mass. Boots and shoes. No. 128,773; Jan. 13; v. 270; p. 340.
McEwen, Thomas C., Belleville, N. J., assignor to McEwen Tire Ventilator Company, Inc., New York, N. Y. Tire-ventilating valves. No. 129,182; Jan. 27; v. 270; p. 615.
McEwen Tire Ventilator Company, Inc. (See McEwen, Thomas C., assignor.)
McFadden, Geo. H., & Bro., Philadelphia, Pa., and New York, N. Y. Wheat-flour. No. 129,369; Feb. 17; v. 271; p. 508.
McGlumphy, Anna M., Kenmore, Ohio. Cold and face cream, talcum and face powder. No. 137,647; Nov. 30; v. 280; p. 999.
McGovern, Edward B., Seattle, Wash. Canned salmon. No. 128,774; Jan. 13; v. 270; p. 341.
McGovern, Edward B., Seattle, Wash. Canned salmon. No. 129,370; Feb. 17; v. 271; p. 508.
McGovern, Thomas B., Jr., & Co., New York, N. Y. Vegetable, mineral, illuminating, and lubricating oils. No. 129,371; Feb. 17; v. 271; p. 508.
McGraw Tire and Rubber Company, The, East Palestine, Ohio. Rubber tires and tubes. No. 129,493; Feb. 24; v. 271; p. 679.
McGregory, Fred H., Decatur, Ill. Chemically-treated waste for use as a duster. No. 137,508; Nov. 23; v. 280; p. 804.
McHale, Mrs. T. J., Memphis, Tenn. Preparation for the treatment of pyorrhea. No. 129,494; Feb. 24; v. 271; p. 679.
McIntosh Battery and Optical Co., Chicago, Ill. Apparatus for generating, &c., electric current for therapeutic purposes. No. 130,805; May 4; v. 274; p. 187.
McIntosh Battery & Optical Co., Chicago, Ill. Electrode-pads. No. 130,806. May 4; v. 274; p. 187.
McIntosh Battery & Optical Co., Chicago, Ill. Electro-medical switchboard for electric-bath use. No. 132,996; July 6; v. 276; p. 2020.
McIntosh Battery and Optical Co., Chicago, Ill. Apparatus for therapeutic purposes. No. 134,726; Sept. 14; v. 278; p. 358.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

McIntosh, Norman S., Detroit, Mich. Cleaning compound for the hands. No. 131,179; May 4; v. 274; p. 198.
McIntyre-Burrall Company, Green Bay, Wis. Harness and shoe leather. No. 134,320; Aug. 24; v. 277; p. 783.
McIntyre-Burrell Company, Green Bay, Wis. Lap robes and lusters. No. 137,509; Nov. 23; v. 280; p. 804.
McIntyre-Burrall Company, Green Bay, Wis. Clothing. No. 137,914; Dec. 7; v. 281; p. 201.
McKee-Hodshon & Co., New York, N. Y. Oils and greases. No. 129,495; Feb. 24; v. 271; p. 679.
McKee-Hodshon & Co., New York, N. Y. Asphalt roofings. No. 130,541; Apr. 27; v. 273; p. 803.
McKee Refrigerator Company, Brooklyn, N. Y. Refrigerators and ice-boxes. No. 136,520; Nov. 2; v. 280; p. 184.
McKenna, John S., Fresno, Calif. Liniment for wrenches, sprains, bruises, &c., and general tonic for horses and cows, &c. No. 134,017; Aug. 10; v. 277; p. 389.
McKenna, Marguerite C., New York, N. Y. Combination of sugar and cinnamon. No. 130,807; May 4; v. 274; p. 187.
McKenna & Robbins, New York, N. Y. Materials used in making corsets and bandages. No. 136,857; Nov. 9; v. 280; p. 380.
McKenzie Milling Company, Quincy, Mich. Flour. No. 135,737; Oct. 19; v. 279; p. 529.
McKesson & Robbins Inc., New York, N. Y. Medicinal preparations for external use in skin diseases, &c. No. 132,445; June 22; v. 275; p. 820.
McKesson & Robbins Inc., New York, N. Y. Medicinal preparations for external use, for rheumatism, sprains, sore throat, &c. No. 132,446; June 22; v. 275; p. 820.
McKesson & Robbins Inc., New York, N. Y. Medicinal preparations for germicidal purposes and affections of throat and mouth. No. 132,447; June 22; v. 275; p. 820.
McKesson & Robbins Inc., New York, N. Y. Preparations for repelling mosquitos and healing their bites. No. 132,448; June 22; v. 275; p. 820.
McKesson & Robbins Inc., New York, N. Y. Medicinal preparations for certain skin disorders and as a blood-purifier. No. 132,449; June 22; v. 275; p. 820.
McKesson & Robbins, Inc., New York, N. Y. Medicinal preparation for treatment of affections of the throat and bronchial tubes. No. 133,733; Aug. 3; v. 277; p. 174.
McKesson & Robbins, Inc., New York, N. Y. Throat-pastils. No. 133,734; Aug. 3; v. 277; p. 174.
McKesson & Robbins Inc., New York, N. Y. Perfumery. No. 134,514; Sept. 7; v. 278; p. 160.
McKiernan-Terry Drill Company, Dover, N. J., and New York, N. Y. Lifting-jacks. No. 129,020; Jan. 20; v. 270; p. 474.
McKusick, Towle & Company, Minneapolis, Minn. Candy. No. 136,521; Nov. 2; v. 280; p. 184.
McLane Silk Company, Turners Falls, Mass. Silk and satin piece goods. No. 131,180; May 4; v. 274; p. 198.
McLaren Rubber Company, Charlotte, N. C. Rubber or rubber and fabric tires and tubes for vehicles. No. 134,724; Sept. 14; v. 278; p. 357.
McLaughlin, Wallace D., Fort Scott, Kans. Seed-planting attachments for hoes, &c. No. 131,544; May 18; v. 274; p. 606.
McLean, Dr. J. H., Medicine Co., St. Louis, Mo. Medical preparations and products. No. 128,775; Jan. 13; v. 270; p. 341.
McLean, Dr. J. H., Medicine Co., St. Louis, Mo. Purgative pills. No. 128,776; Jan. 13; v. 270; p. 341.
McLean, W. B., Manufacturing Company, Pittsburgh, Pa. Show-cases, wall display-cases, counters, &c. No. 135,869; Oct. 19; v. 279; p. 536.
McLean, W. B., Manufacturing Company, Pittsburgh, Pa. Chairs for soda-fountains, restaurants, &c. No. 135,870; Oct. 19; v. 279; p. 536.
McManes, Joseph B., Columbus, Ohio. Medicine for nervous and sick headache. No. 136,522; Nov. 2; v. 280; p. 184.
McManus, Edward C., San Francisco, Calif. Orange-juice. No. 132,450; June 22; v. 275; p. 820.
McMillen Co., The, Fort Wayne, Ind. Hog, horse, dairy, and scratch feed. No. 132,016; June 8; v. 275; p. 415.
McMillan, J. T., Company, St. Paul, Minn. Bacon and ham. No. 133,735; Aug. 3; v. 277; p. 174.
McMullen, Robert M., New York, N. Y. Sugar. No. 128,777; Jan. 13; v. 270; p. 341.
McNeal, Janet C., Washington, D. C. Corsets and abdominal supporters. No. 135,007; Sept. 21; v. 278; p. 533.
McNeil, B. W., New York, N. Y. Hair-tonic. No. 128,439; Jan. 6; v. 270; p. 182.
McRae & Keeler, Attleboro, Mass. Cuff-links. No. 131,798; May 25; v. 274; p. 832.
McRae & Roberts Co., The, Detroit, Mich. Plumbing fixtures and supplies, &c. No. 137,829; Dec. 7; v. 281; p. 197.
McRae Wholesale Hardware Company, Helena, Ark. Inner tubes for pneumatic tires. No. 137,648; Nov. 30; v. 280; p. 999.
McTighe, M., Company, Inc., New York, N. Y. Phonographic reproducers. No. 138,056; Dec. 14; v. 281; p. 399.
McVay, George B., Jr., Birmingham, Ala. Insecticide for destroying insects and fungi. No. 129,776; Mar. 9; v. 272; p. 365.
McVey, Vaughn M., Lincoln, Nebr. Liquid preparations for cleaning and polishing enameled surfaces. No. 136,524; Nov. 2; v. 280; p. 184.
Mab Cleaner Manufacturing Company, Salt Lake City, Utah. Washing compound. No. 133,460; July 27; v. 276; p. 770.
Macanite Company of America, Philadelphia, Pa. Magnesium-oxychlorid cement and certain products made therefrom. No. 132,017; June 8; v. 275; p. 415.
Macbeth-Curtis-Moody Company, Cleveland, Ohio. Pipe-joint paste and boiler, pipe, and radiator cement. No. 136,858; Nov. 9; v. 280; p. 381.
Macbeth-Evans Glass Company, Pittsburgh, Pa. Glass dishes. No. 135,009; Sept. 21; v. 278; p. 533.
MacDonald, Marie B., Toledo, Ohio. Corsets. No. 130,353; Apr. 20; v. 273; p. 622.
Macdonell, Allan G., New York, N. Y. Fertilizers. No. 134,412; Aug. 31; v. 277; p. 973.
Macdonell, Joseph A., Brooklyn, assignor to McClure-Fenlon Co., Inc., New York, N. Y. Directories to be used yearly. No. 138,058; Dec. 14; v. 281; p. 399.
MacGregor, James D., Stamford, Conn. Preparation for improving certain soils and treating the roots of fruit and shade trees, &c. No. 135,738; Oct. 19; v. 279; p. 529.
Machell, Thomas, & Sons, Glasgow, Scotland. Musical instruments. No. 129,777; Mar. 9; v. 272; p. 365.
Machine Appliance Corporation, Brooklyn, N. Y. Articles of stationery, eyelets for fastening purposes, such as may be used for binding paper, &c. No. 132,195; June 15; v. 275; p. 618
Mac-It Parts Company, Lancaster, Pa. Rivet-sets and metalworking punches. No. 130,209; Apr. 13; v. 273; p. 403.
MacIvor, Walter I., St. Louis, Mo. Pharmaceutical preparation for strengthening growing hair, and taking out the kinks and curls. No. 129,778; Mar. 9; v. 272; p. 365.
MacKellar's, R., Sons Co., Peekskill, N. Y. Charcoal. No. 131,181; May 4; v. 274; p. 198.
Mackenzie, Robert F., Co., The, Cleveland, Ohio. Candy. Nos. 134,018–20; Aug. 10; v. 277; p. 389.
Mackenzie, Robert F., Co., Cleveland, Ohio. Candy. Nos. 137,322–3; Nov. 23; v. 280; p. 796.
Mackenzie, Robert F., Co., The, Cleveland, Ohio. Candy. No. 137,510; Nov. 23; v. 280; p. 804.
Mackie, Harry A., New York, N. Y. Electrotherapeutical instruments. No. 135,739; Oct. 19; v. 279; p. 530.
Mac-Lar Battery Company, Inc., Detroit, Mich. Electric storage batteries and connectors, &c. No. 136,085; Oct. 26; v. 279; p. 721.
MacMorris Drug Co., Newark, N. J. Cough remedy and reconstructive tonic. No. 128,778; Jan. 13; v. 270; p. 341.
Macomber & Whyte Rope Company, Kenosha, Wis. Steel, wire, and galvanized-wire rope. No. 129,992; Mar. 16; v. 272; p. 539.
Macon Woolen Mills, Bibb county, Ga. Pants and overalls. No. 128,440; Jan. 6; v. 270; p. 182.
Macon Woolen Mills, Macon, Ga. Pants and overalls. No. 128,441; Jan. 6; v. 270; p. 182.
MacPherson, Warren, Cambridge, Mass. Canvas and rubber shoes, soles, heels, toe-boxes, and counters. No. 136,086; Oct. 26; v. 279; p. 721.
Macy, R. H., & Co., New York, N. Y. Hats, Infants', &c. No. 129,021; Jan. 20; v. 270; p. 474.
Macy, R. H., Co., New York, N. Y. Long-cloth. No. 129,779; Mar. 9; v. 272; p. 365.
Macy, R. H., & Co., New York, N. Y. Leather and canvas shoes. No. 130,354; Apr. 20; v. 273; p. 622.
Macy, R. H., & Co., Inc., New York, N. Y. Women's, misses', and children's dresses. No. 133,275; July 20; v. 276; p. 591.
Macy, R. H., & Co. Inc., New York, N. Y. Children's one-piece sleeping-suits. No. 135,010; Sept. 21; v. 278; p. 533.
Macy, R. H., & Co., New York, N. Y. Corsets. Nos. 135,276–7; Sept. 28; v. 278; p. 703.
Macy, R. H., & Co., Inc., New York, N. Y. Phonographs, graphophones, talking-machines, needles, &c. No. 135,482; Oct. 12; v. 279; p. 344.
Macy, R. H., & Co. Inc., New York, N. Y. Writing-paper. No. 135,740; Oct. 19; v. 279; p. 530.
Macy, R. H., & Co., Inc., New York, N. Y. Precious-metal hollow ware. No. 136,525; Nov. 2; v. 280; p. 184.
Madame Irene, New York, N. Y. Corsets. No. 137,649; Nov. 30; v. 280; p. 999.
Madansky Brothers, Oklahoma, Okla. Clothing for men and boys. No. 134,728; Sept. 14; v. 278; p. 358.
Maddas, Frank A., Jeannette, Pa. Malt beverage containing less than one-half of one per cent. alcohol. No. 132,196; June 15; v. 275; p. 618.
Madden Safety Razor Corporation, New York, N. Y. Safety-razors and blades. No. 135,741; Oct. 19; v. 279; p. 530.
Madelether Company, Saugus, Mass. Soles made of artificial leather. No. 128,442; Jan. 6; v. 270; p. 182.
Madison-Kipp Corporation, Madison, Wis. Mechanical lubricators, oil and grease cups. No. 137,830; Dec. 7; v. 281; p. 197.
Magee, David F., York, Pa. Candy. No. 132,018; June 8; v. 275; p. 415.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Magic Coffee Machine Company, Inc., Chicago, Ill. Electric coffee-roasters. No. 135,278; Sept. 28; v. 278; p. 703.

Magic-Keller Soap Works, Louisville, Ky. Soaps. No. 129,022; Jan. 20; v. 270; p. 474.

Maggioni, L. P., & Company, Savannah, Ga. Fresh oysters, canned or otherwise put up. Nos. 134,253–4; Aug. 24; v. 277; p. 778.

Maggiores & Rousos, Rochester, N. Y. Olive-oil. No. 132,735; June 29; v. 275; p. 1017.

Magnavox Co., The, Oakland, Calif. Telephone-receivers. No. 137,324; Nov. 23; v. 280; p. 796.

Magnavox Company, The, San Francisco, Calif. Telephones and parts thereof. No. 138,059; Dec. 14; v. 281; p. 399.

Magnolia Petroleum Company, Dallas, Tex. Lubricating-oils. No. 135,279; Sept. 28; v. 278; p. 703.

Mahan, Cyril C., Baltimore, Md. Candy. No. 130,808; May 4; v. 274; p. 187.

Maier, William D., Boston, Mass. Malt and fruit extracts. No. 136,859; Nov. 9; v. 280; p. 381.

Mail and Express Company, New York, N. Y. Newspaper-column devoted to humorous current comment. No. 136,526; Nov. 2; v. 280; p. 184.

Maine Pickling Co., Portland, Me. Foods and ingredients of foods. No. 138,060; Dec. 14; v. 281; p. 399.

Maire, August E., Minneapolis, Minn. Cold-water paint. No. 134,729; Sept. 14; v. 278; p. 358.

Majestic Electric Development Co., San Francisco, Calif. Electric air, water, and immersion heaters. No. 130,809; May 4; v. 274; p. 187.

Majestic Mills Paper Company Inc., The, New York, N. Y. Writing-paper, printing-paper, envelops, &c. No. 128,443; Jan. 6; v. 270; p. 182.

Majestic Tire & Rubber Co., Indianapolis, Ind. Rubber tires. No. 132,451; June 22; v. 275; p. 820.

Major Apron Company, Incorporated, Madison, Ind., and Chicago, Ill. Aprons and wash-dresses. No. 135,742; Oct. 19; v. 279; p. 530.

Major, Joseph, Detroit, Mich. Preparation for consumption. No. 128,444; Jan. 6; v. 270; p. 182.

Major, Joseph, Detroit, Mich. Nerve medicine. No. 128,445; Jan. 6; v. 270; p. 182.

Major, Joseph, Detroit, Mich. Preparation for Spanish influenza, &c. No. 129,298; Feb. 10; v. 271; p. 356.

Major, Solomon, Atlantic City, N. J. Medicinal preparation for indigestion, liniment, tablets, and pills. No. 129,496; Feb. 24; v. 271; p. 679.

Major, Solomon, Atlantic City, N. J. Liniment for pneumonia, coughs, &c. No. 129,497; Feb. 24; v. 271; p. 679.

Major, Solomon, Atlantic City, N. J. Medicinal preparation for indigestion. No. 129,780; Mar. 9; v. 272; p. 365.

Malchow, Frederick, Brooklyn, N. Y. Embossing composition. No. 134,021; Aug. 10; v. 277; p. 389.

Malkin, John E., New York, N. Y. Non-alcoholic malt beverage. No. 136,277; Oct. 26; v. 279; p. 726.

Malkin's, H., Sons, Brooklyn, N. Y. Leather, canvas, and fabric shoes. No. 128,446; Jan. 6; v. 270; p. 182.

Mallard, C. B., Co., Jacksonville, Fla. Canned vegetables and fruits, preserves, and pickles. No. 135,483; Oct. 12; v. 279; p. 344.

Mallinson, H. R., & Co., Inc., New York, N. Y. Silk piece goods. No. 129,498; Feb. 24; v. 271; p. 679.

Mallinson, H. R., & Co., Inc., New York, N. Y. Silk piece goods. Nos. 129,781–3; Mar. 9; v. 272; p. 365.

Mallinson, H. R., & Co., Inc., New York, N. Y. Silk piece goods. No. 133,461; July 27; v. 276; p. 770.

Mallinson, H. R., & Co. Inc., New York, N. Y. Crape in the piece. No. 135,743; Oct. 19; v. 279; p. 530.

Mallinson, H. R., & Co., Inc., New York, N. Y. Satin in the piece. No. 136,087; Oct. 26; v. 279; p. 721.

Mallinson, H. R., & Co., New York, N. Y. Silk piece goods. No. 136,726; Nov. 2; v. 280; p. 102.

Malone & Hyde, Memphis, Tenn. Castor-oil, Epsom salts, and sulfur. No. 131,545; May 18; v. 274; p. 606.

Malone & Hyde, Memphis, Tenn. Cane-syrup for table use. No. 134,386; Aug. 31; v. 277; p. 972.

Malone, Lawrence T., San Antonio, Tex. Taffy and cream candy. No. 130,822; May 4; v. 274; p. 188.

Malone, Lawrence T., San Antonio, Tex. Chocolate-coated candy. No. 130,823; May 4; v. 274; p. 188.

Malott, H. F., Shoe Co., Chicago, Ill. Boys' and girls' shoes made wholly or in part of leather. No. 130,810; May 4; v. 274; p. 187.

Malouf, Abraham M., Salt Lake City, Utah. Canned fruit, teas, &c. No. 129,023; Jan. 20; v. 270; p. 474.

Malouf, Abraham M., New York, N. Y. Hats, caps, mackinaws, dresses, &c. No. 130,811; May 4; v. 274; p. 178.

Maltbie Chemical Company, The, Newark, N. J. Medicinal tablets for treatment of diseases of the biliary system. No. 132,452; June 22; v. 275; p. 820.

Maltz & Sims, New York, N. Y. Vanity-bags. No. 137,650; Nov. 30; v. 280; p. 999.

Mandel & Cohen, New York, N. Y. Hosiery for boys and girls. No. 130,355; Apr. 20; v. 273; p. 622.

Mandel, Louis, Chicago, Ill. Liquid shoe-polish, cream for application to shoes after polishing, &c. No. 130,014; Mar. 23; v. 273; p. 731.

Mandel, Louis, Chicago, Ill. Leather-shoe dye in all colors. No. 133,482; Dec. 28; v. 281; p. 783.

Mandel Mfg. Company, Chicago, Ill. Talking-machines, graftonolas, &c. No. 129,024; Jan. 20; v. 270; p. 474.

Manghisi, Andrew A., West Hoboken, N. J. Phonographs. No. 134,732; Sept. 14; v. 278; p. 358.

Mangone, Philip, Co., New York, N. Y. Ladies' suits and coats. No. 137,677; Nov. 30; v. 280; p. 999.

Mangos, Constantine G., Davenport, Iowa. Carbonated water. No. 131,546; May 18; v. 274; p. 606.

Mangrané, Daniel, Barcelona, Spain. Olive oil. Nos. 133,276–7; July 20; v. 276; p. 591.

Mangrane, Daniel, Barcelona, Spain. Olive-oil. Nos. 135,744–5; Oct. 19; v. 279; p. 530.

Manhattan Bead Chain Company, New York, N. Y. Pearls. No. 137,325; Nov. 23; v. 280; p. 796.

Manhattan Medicine Co., The, Des Moines, Iowa. Laxative tonic. No. 134,515; Sept. 7; v. 278; p. 160.

Manhattan Musical Instrument Co., New York, N. Y. Mandolins, banjos, drums, &c. No. 137,832; Dec. 7; v. 281; p. 197.

Manhattan Rubber Mfg. Co., The, New York, N. Y. Belting made partly of fabric and partly of rubber. No. 133,736; Aug. 3; v. 277; p. 174.

Manhattan Rubber Mfg. Co., The, Passaic, N. J. Belting, packing, and hose of rubber or rubber fabric. No. 133,737; Aug. 3; v. 277; p. 174.

Manhattan Rubber Mfg. Co., Passaic, N. J. Belting. No. 133,738; Aug. 3; v. 277; p. 174.

Mann, Alexander S., Providence, R. I. Liquid antiseptic. No. 131,547; May 18; v. 274; p. 606.

Mann, Alexander S., Providence, R. I. Liquid antiseptic. No. 134,730; Sept. 14; v. 278; p. 358.

Mannello, Angelo, New York, N. Y. Phonographs and talking-machines. No. 132,736; June 29; v. 275; p. 1017.

Manning Abrasive Co., Inc., Troy, N. Y. Abrasives coated on cloth or paper or both. No. 129,784; Mar. 9; v. 272; p. 365.

Manning Abrasive Company, Inc., Troy, N. Y. Abrasive or grinding belts. No. 132,453; June 22; v. 275; p. 820.

Manning Abrasive Co., Inc., Troy, N. Y. Abrasives coated on cloth or paper, or both. No. 136,527; Nov. 2; v. 280; p. 184.

Manning, Charles E., Philadelphia, Pa. Meteorological instruments. No. 130,542; Apr. 27; v. 273; p. 804.

Manowitz, J., & Sons, New York, N. Y. Canvas for coat-fronts. No. 129,499; Feb. 24; v. 271; p. 679.

Manteca Packing Company, Manteca, Calif. Canned fruits. No. 131,344; May 11; v. 274; p. 401.

Manteca Packing Company, Manteca, Calif. Canned fruits. No. 131,799; May 25; v. 274; p. 832.

Manteca Canning Co., Manteca, Calif. Canned fruits and vegetables. Nos. 132,737–8; June 29; v. 275; p. 1017.

Manteca Canning Co., Manteca, Calif. Canned apricots. No. 132,739; June 29; v. 275; p. 1017.

Manteca Packing Company, Manteca, Calif. Canned fruits. No. 132,740; June 29; v. 275; p. 1017.

Manteca Packing Company, Manteca, Calif. Canned fish. No. 135,568; Oct. 12; v. 279; p. 347.

Manufacturers' Belt Hook Co., Chicago, Ill. Belt-fasteners. No. 136,088; Oct. 26; v. 279; p. 721.

Manufacturers Purchasing Corporation, New York, N. Y. Powdered buttermilk. No. 137,041; Nov. 16; v. 280; p. 584.

Manufacturers Record Publishing Company, Baltimore, Md. A weekly magazine. No. 133,462; July 27; v. 276; p. 770.

Manufacturers Textile Co. Inc., New York, N. Y. Cotton, wool, silk, and linen piece goods. No. 131,548; May 18; v. 274; p. 606.

Many Blanc and Co., Chicago, Ill. Cigars. No. 134,731; Sept. 14; v. 278; p. 358.

Maple Grove Candies, St. Johnsbury, Vt. Candies. No. 128,447; Jan. 6; v. 270; p. 182.

Maple Products Company, The. (See Argo, Fred N., assignor.)

Marabou Trading Company, Incorporated, New York, N. Y. Confectionery. No. 137,651; Nov. 30; v. 280; p. 999.

Marans, Morris, Sons, New York, N. Y. Men's and young men's clothes. No. 133,278; July 20; v. 276; p. 591.

Marathon Fishing & Packing Co., Seattle, Wash. Canned salmon. No. 128,448; Jan. 6; v. 270; p. 182.

Marathon Shoe Co., Wausau, Wis. Shoes. No. 130,812; May 4; v. 274; p. 187.

Marathon Tire & Rubber Co., The, Cuyahoga Falls, Ohio. Rubber and composition soles and shoes. No. 130,543; Apr. 27; v. 273; p. 804.

Marathon Tire & Rubber Co., The, Cuyahoga Falls, Ohio. Rubber composition soles, half-soles, and heels. Nos. 130,824–5; May 4; v. 274; p. 188.

Marathon Tire and Rubber Co., Cuyahoga Falls, Ohio. Imitation leather. No. 131,182; May 4; v. 274; p. 198.

Marathon Tire & Rubber Co., The, Cuyahoga Falls, Ohio. Leather, fabric, or rubber belts for personal wear. No. 132,019; June 8; v. 275; p. 415.

Marathon Tire and Rubber Co., Cuyahoga Falls, Ohio. Composition rubber material in sheet form. No. 132,741; June 29; v. 275; p. 1017.

Marathon Tire and Rubber Co., The, Cuyahoga Falls, Ohio. Belts manufactured partly of rubber for supporting garments. No. 133,739; Aug. 3; v. 277; p. 175.

Marble Arms & Mfg. Company, Gladstone, Mich. Explosives, firearms, &c. No. 137,511; Nov. 23; v. 280; p. 804.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Marburg, Brothers, Inc., New York, N. Y. Knives and edge-tools. No. 136,089; Oct. 26; v. 279; p. 721.
Marceau, Jerry E., Fitchburg, Mass. Ginger-ale. No. 136,528; Nov. 2; v. 280; p. 184.
Marcelino Perez & Co., New York, N. Y. Cigars. No. 130,813; May 4; v. 274; p. 187.
Marcus Lucius Quim Conservatory of Music, Boston, Mass. Educational appliance. No. 135,307; Sept. 28; v. 278; p. 704.
Marcus, Michael, New York, N. Y. Brooms and brushes. No. 132,997; July 6; v. 276; p. 202.
Marfleet, Gerald J., Rock Falls, Ill. Moving-picture films. No. 130,826; May 4; v. 270; p. 188.
Margolis, Jacob H., Dayton, Ohio. Coats, vests, trousers. No. 130,814; May 4; v. 274; p. 187.
Mar-Hof-Co., Inc., Norfolk, Va. Ladies' and misses' middy-suits. No. 137,326; Nov. 23; v. 280; p. 796.
Marll, Harry A., Kansas City, Mo. Convertible outer garment. No. 136,529; Nov. 2; v. 280; p. 184.
Marine Decking & Supply Co., Philadelphia, Pa. Tackle and pulley blocks. No. 132,454; June 22; v. 275; p. 820.
Marine Decking & Supply Co., Philadelphia and Eastern, Pa. Construction materials. No. 128,779; Jan. 13; v. 270; p. 341.
Marine Equipment & Supply Co., Philadelphia, Pa. Wood and steel shell tackle-blocks. No. 130,356; Apr. 20; v. 273; p. 622.
Maritime Trading Corporation, New York, N. Y. Stock and poultry food. No. 135,484; Oct. 12; v. 279; p. 344.
Maritime Trading Corporation, New York, N. Y. Poultry and stock food. No. 138,061; Dec. 14; v. 281; p. 399.
Marmon Chicago Company, Chicago, Ill. Self-contained electric power-generating and lighting plants. No. 130,827; May 4; v. 274; p. 188.
Marmon Chicago Company, The, Chicago, Ill., assignor to The Arc-O'-Manufacturing Co. Inc., of Chicago, Ill. Spark-plugs. No. 132,197; June 15; v. 275; p. 618.
Marmerstein & Co., Inc., New York, N. Y. Wrist-bracelets, belts, bags, garters, &c. No. 129,785; Mar. 9; v. 272; p. 365.
Maroosis, William S., Minneapolis, Minn. Candy. No. 138,289; Dec. 21; v. 281; p. 565.
Maroulis, John A., assignor to Maroulis and Pakis, New York, N. Y. Polish for furniture, &c. No. 129,372; Feb. 17; v. 271; p. 508.
Maroulis and Pakis. (See Maroulis, John A., assignor.)
Marquetand, Theodore, Philadelphia, Pa. Candy. No. 131,184; May 4; v. 274; p. 198.
Marré & Company, Buenos Aires, Argentina. Cheese and butter. No. 130,357; Apr. 20; v. 273; p. 622.
Marryman, Carl, Chicago, Ill. Calculating-machines. No. 137,833; Dec. 7; v. 281; p. 197.
Marshall Canning Company, Marshalltown, Iowa. Canned beans. No. 129,025; Jan. 20; v. 270; p. 474.
Marshall Field & Company, Chicago, Ill. Cotton piece goods. No. 129,702; Mar. 9; v. 272; p. 368.
Marshall Field & Company, Chicago, Ill. Pins, safety-pins, snap-fasteners, &c. No. 130,358; Apr. 20; v. 273; p. 622.
Marshall Field & Company, Chicago, Ill. Yarn. No. 130,544; Apr. 27; v. 273; p. 804.
Marshall Field Company, Chicago, Ill. Sleeping-garments. No. 130,815; May 4; v. 274; p. 187.
Marshall Field & Company, Chicago, Ill. Grain-bags. No. 130,816; May 4; v. 274; p. 187.
Marshall Field & Co., Chicago, Ill. Toilet preparations. No. 135,746; Oct. 19; v. 279; p. 530.
Marshall Field & Company, Chicago, Ill. Gingham piece goods. Nos. 136,090–2; Oct. 26; v. 279; p. 721.
Marshall Field & Company, Chicago, Ill. Hosiery. No. 138,483; Dec. 28; v. 281; p. 788.
Marshall Oil Company, Marshalltown, Iowa. Wax polish. No. 132,455; June 22; v. 275; p. 820.
Marshall, Warren, Kansas City, Kans. Ointment for burns, cuts, &c. No. 128,780; Jan. 13; v. 270; p. 341.
Marshall-Wells Company, Duluth, Minn. Fishermen's supplies. No. 136,530; Nov. 2; v. 280; p. 184.
Marshalltown Syrup & Sugar Company, Marshalltown, Iowa. Toppings for ice-cream. No. 135,183; Sept. 21; v. 278; p. 540.
Marshburn, N. E., Atlanta, Ga. Liniment, laxative tonic, liver medicine, and salve. No. 136,093; Oct. 26; v. 279; p. 721.
Marten, Edward R., St. Louis, Mo. Laxative medicinal remedies. No. 134,733; Sept. 14; v. 278; p. 358.
Martin, Arda N., Baltimore, Md. Remedy for war-wounds, old sores, burns, and abscesses. No. 135,011; Sept. 21; v. 278; p. 533.
Martin, C. J., Austin, Tex. Worm-exterminator. No. 131,549; May 18; v. 274; p. 606.
Martin, C. J., Austin, Tex. Insecticide and vermin-exterminator. No. 134,734; Sept. 14; v. 278; p. 358.
Martin Calf Feed Company, Mineral Point, Wis. Food for calves. No. 136,531; Nov. 2; v. 280; p. 184.
Martin-Copeland Company, Providence, R. I. Spectacles, frames, and mountings for eyeglasses. No. 128,449; Jan. 6; v. 270; p. 182.
Martin-Copeland Company, Providence, R. I. Jewelry. Nos. 129,786–7; v. 272; p. 365.
Martin, Glenn L., Cleveland, Ohio. Automatic aircraft. No. 130,210; Apr. 13; v. 273; p. 403.
Martin, John C., New York, N. Y. Hat-blocking dies and hat-blocks No. 135,485; Oct. 12; v. 279; p. 344.
Martin-Laskin Company, Milwaukee, Wis. Fur-bearing skins. No. 128,781; Jan. 13; v. 270; p. 341.
Martin-Scott Engineering Co., New York, N. Y. Farm-tractors. No. 132,456; June 22; v. 275; p. 820.
Marway Manufacturing Company, The, Baltimore, Md. Garments for men and women. No. 129,373; Feb. 17; v. 271; p. 508.
Marx, Leon, New York, N. Y. Female-apparel. No. 131,800; May 25; v. 274; p. 832.
Marx, Lizzie P., Mrs., New Orleans, La. Polish used on painted and varnished surfaces. No. 138,062; Dec. 14; v. 281; p. 369.
Marx, Louis E., Huntington, Ind. Hair-curler. No. 131,185; May 4; v. 274; p. 198.
Marx, Sidney S., San Diego, Calif. Camping-trailers. No. 137,698; Nov. 30; v. 280; p. 1000.
Maryland Baking Co., Baltimore, Md. Cake cone. No. 135,486; Oct. 12; v. 279; p. 344.
Maryland Shoe Corporation, Baltimore, Md. Shoes. No. 138,290; Dec. 21; v. 281; p. 565.
Marymont, Max J., New York, N. Y. Containers for toilet articles. No. 128,450; Jan. 6; v. 270; p. 182.
Mary's, Inc., New York, N. Y. Women's clothing. No. 130,545; Apr. 27; v. 273; p. 804.
Maschinenfabrik Schweiter A.-G., Horgen, Switzerland. Tools, apparatus, and tools for metal-working. No. 133,740; Aug. 3; v. 277; p. 175.
Maschinenfabrik Schweiter A.-G., Horgen, Switzerland. Machinery and parts thereof. No. 134,180; Aug. 17; v. 277; p. 582.
Mason, Au & Magenheimer Conf. Mfg. Co., Brooklyn, N. Y. Candies and chocolate. No. 128,451; Jan. 6; v. 270; p. 182.
Mason, Au & Magenheimer Conf. Mfg. Co., Brooklyn, N. Y. Candies and chocolates. No. 130,817; May 4; v. 274; p. 187.
Mason, Au & Magenheimer Conf. Mfg. Co., Brooklyn, N. Y. Candies and chocolates. No. 134,022; Aug. 10; v. 277; p. 389.
Mason Au & Magenheimer Confectionery Manufacturing Company, Brooklyn, N. Y. Candies and chocolates. No. 134,413; Aug. 31; v. 277; p. 973.
Mason, Au & Magenheimer Confectionery Manufacturing Company, Brooklyn, N. Y. Hard panned candy. No. 136,860; Nov. 9; v. 280; p. 381.
Mason, Au & Magenheimer Conf. Mfg. Co., Brooklyn, N. Y. Candies and chocolates. No. 136,861; Nov. 9; v. 280; p. 381.
Mason, Blanche M., Chicago, Ill. Lip-rouge, face-powder, &c. No. 128,782; Jan. 13; v. 270; p. 341.
Mason City Candy Co., Mason City, Iowa. Candies. No. 130,818; May 4; v. 274; p. 187.
Mason, Davis & Company, Chicago, Ill. Weighing-scales. No. 129,188; Jan. 27; v. 270; p. 615.
Mason, Davis & Company, Chicago, Ill. Weighing-scales. No. 130,819; May 4; v. 274; p. 187.
Mason, Davis & Company, Chicago, Ill. Weighing-scales. No. 134,255; Aug. 24; v. 277; p. 778.
Mason-Donaldson Lumber Co., Rhinelander, Wis. Wood flooring. No. 129,993; Mar. 16; v. 272; p. 539.
Mason Tire & Rubber Co., Kent, Ohio. Tires and tubes for automobiles and trucks. No. 133,162; July 13; v. 276; p. 403.
Massachusetts Breweries Company, Alexandria, Va., and Boston, Mass. Malt beverages. No. 131,914; May 25; v. 274; p. 836.
Massachusetts Oilless Bearing Company, Worcester, Mass. Bearings for moving parts of machines. No. 130,359; Apr. 20; v. 273; p. 622.
Massachusetts Oilless Bearings Company, Worcester, Mass. Bearings for different parts of machines. No. 130,360; Apr. 20; v. 273; p. 622.
Massasoit Manufacturing Company, Fall River, Mass. Mops. No. 135,487; Oct. 12; v. 279; p. 344.
Massasoit Manufacturing Company, Fall River, Mass. Calking-cotton. No. 135,747; Oct. 19; v. 279; p. 530.
Massasoit Manufacturing Company, Fall River, Mass. Mops. Nos. 137,652–5; Nov. 30; v. 280; p. 999.
Massasoit Manufacturing Company, Fall River, Mass. Mops. No. 137,831; Dec. 7; v. 281; p. 197.
Massasoit Manufacturing Company, Fall River, Mass. Mops. No. 138,291; Dec. 21; v. 281; p. 565.
Massey-Harris Harvester Co. Inc., Batavia, N. Y. Agricultural machinery. No. 130,361; Apr. 20; v. 273; p. 622.
Massey-Harris Harvester Co., Inc., Batavia, N. Y. Mowers, self-raking reapers, hay-tedders, &c. No. 130,820; May 4; v. 274; p. 187.
Master Builders Company, The, Cleveland, Ohio. Liquid preparation. No. 134,735; Sept. 14; v. 278; p. 358.
Master Helps Co., Brooklyn, N. Y. Cleansing compound. No. 128,452; Jan. 6; v. 270; p. 182.
Master Manufacturing Co., The, Cincinnati, Ohio. Shoe and leather oils, dressings, and paste polishes. No. 135,748; Oct. 19; v. 279; p. 530.
Masterbilt Homes, Inc., Memphis, Tenn. Sectional or knockdown buildings. No. 137,042; Nov. 16; v. 280; v. 584.
Mastertone Phonograph Company, East Liverpool, Ohio. Phonographs. Nos. 136,862–3; Nov. 9; v. 280; p. 381.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Masury, John W., & Son, Brooklyn, N. Y. Printed publication published monthly. No. 136,864; Nov. 9; v. 280; p. 381.
Masury, John W., & Son, New York, N. Y. Spirit varnish. No. 137,327; Nov. 23; v. 280; p. 796.
Matchless Metal Polish Co., Chicago, Ill., and Glen Ridge, N. J. Buffing or polishing composition. No. 128,453; Jan. 6; v. 270; p. 182.
Mather, Harold H., Albany, N. Y. Cocoa-palm shampoo. No. 129,026; Jan. 20; v. 270; p. 474.
Matheson, Walker, Company, Joliet, Ill. Cigars. No. 133,539; July 27; v. 276; p. 772.
Matthews Company, The, Port Clinton, Ohio. Electric light and power plants. No. 138,063; Dec. 14; v. 281; p. 399.
Matthews Engineering Co., The. Sandusky, Ohio. Unitary electric plants. No. 132,998; July 6; v. 276; p. 202.
Matthews, W. N., and Brother, Inc., St. Louis, Mo. Spraying devices. No. 134,181; Aug. 17; v. 277; p. 582.
Maurer, Oscar E., San Francisco, Calif. Malt syrup for baking purposes. No. 131,183; May 4; v. 274; p. 198.
Maurer, Oscar E., San Francisco, Calif. Food-syrup for baking purposes. No. 134,023; Aug. 10; v. 277; p. 389.
Maurice Company, The, Cleveland, Ohio. Milk-chocolates. No. 130,821; May 4; v. 274; p. 188.
Maurice, R., and Company, Limited, Willesden, London, England. Enriched pastry-flour. No. 134,024; Aug. 10; v. 277; p. 389.
Maus, Charles F., Chicago, Ill. Cutlery. Nos. 134,182–3; Aug. 17; v. 277; p. 582.
Mauser, John J., Sanford, Fla. Cigars. No. 133,280; July 20; v. 276; p. 591.
Maxcy, Latimer, Frostproof, Fla. Fresh citrus fruits. No. 131,345; May 11; v. 274; p. 401.
Maxim Shirt Co. (See Metro Shirt Co., assignor.)
Maxine Manufacturing Company, Chicago, Ill. Ladies', misses', and children's blouses, outer waists, and shirt-waists. No. 137,329; Nov. 23; v. 280; p. 796.
Maxwell, Luke G., London, England, and Hawick, Scotland. Tweeds. No. 129,788; Mar. 9; v. 272; p. 365.
Maxwell Motor Company, Incorporated, Wilmington, Del., and Detroit, Mich. Automobiles. No. 138,397; Dec. 21; v. 281; p. 571.
Maxwell-Ray Company, Milwaukee, Wis. Electric lamps. No. 132,999; July 6; v. 276; p. 202.
May, W. J., & Co. Limited, East Twickenham, England. Fountain-pens. No. 135,280; Sept. 28; v. 278; p. 703.
May, W. J., & Co., Limited, East Twickenham, England. Pens, pencils, and writing-paper. No. 137,330; Nov. 23; v. 280; p. 796.
Mayclese, New York, N. Y. Clock-dial. No. 133,000; July 6; v. 276; p. 202.
Mayehoff, M. M., & Co., Incorporated, Norwalk, Conn. Clothing. No. 132,457; June 22; v. 275; p. 820.
Mayehoff, M. N., & Co. Incorporated, Norwalk, Conn. Men's, women's, and children's silk, linen, and cotton starched and soft separate collars. No. 137,331; Nov. 23; v. 280; p. 796.
Mayer Brothers, Chicago, Ill. Catalogue commonly known as a house organ. No. 136,865; Nov. 9; v. 280; p. 381.
Mayer, F., Boot & Shoe Co., Milwaukee, Wis. Leather boots and shoes. No. 131,801; May 25; v. 274; p. 832.
Mayer, George, Chicago, Ill. Glue. No. 136,532; Nov. 2; v. 280; p. 184.
Mayer & Goldsmith, New York, N. Y. Trimmed and untrimmed hats. No. 133,463; July 27; v. 276; p. 770.
Mayer, Oscar F., & Bro., Chicago, Ill. Foods and ingredients of foods. No. 133,741; Aug. 3; v. 277; p. 175.
Mayer, Oscar F., & Bro., Chicago, Ill. Foods. No. 134,025; Aug. 10; v. 277; p. 389.
Mayflower Rubber Works Company, Braintree, Mass. Rubber soles and heels. No. 128,783; Jan. 13; v. 270; p. 341.
Mayflower Rubber Works Company, Braintree, Mass. Rubber soles and heels. No. 129,299; Feb. 10; v, 271; p. 356.
Mayhew Steel Products, Inc., New York, N. Y. Mechanics' hand-tools. No. 130,828; May 4; v. 274; p. 188.
Mayo-Skinner Mfg. Company, Chicago, Ill. Hand-operated tire-pumps. No. 133,281; July 20; v. 276; p. 591.
Mayo-Skinner Mfg. Company, Chicago, Ill. Appliances used upon or in connection with automobiles. No. 133,742; Aug. 3; v. 277; p. 175.
Mayos Chemical Co., New Orleans, La. Liquid aspirin compound. No. 128,455; Jan. 6; v. 270; p. 182.
Mazer, Jacob, Pittsburgh, Pa. Altering the acoustic properties of auditoriums. No. 137,332; Nov. 23; v. 280; p. 796.
Mazierska, Helen, Buffalo, N. Y. Hair-tonic. No. 137,333; Nov. 23; v. 280; p. 796.
Mazzei Skirt Co. Inc., New York, N. Y. Skirts. No. 133,282; July 20; v. 276; p. 591.
Mazzone, Salvatore, Brooklyn, N. Y. Remedy for rheumatism and sciatica. No. 131,550; May 18; v. 274; p. 606.
Mead Cycle Company, Chicago, Ill. Rubber tires. No. 129,789; Mar. 9; v. 272; p. 365.
Mead Johnson & Co., Evansville, Ind. Manufactured product composed of dextrin, maltose, &c. Nos. 136,483–4; Nov. 2; v. 280; p. 183.
Mead Johnson & Co., Evansville, Ind. Infants' food. No. 136,485; Nov. 2; v. 280; p. 183.
Meakin, J. & G., Limited, Hanley, England. Ironstone chine and semiporcelain earthenware. No. 135,281; Sept. 28; v. 278; p. 703.
Mears Brothers Mfg. Co., Arkansas City, Kans. Steam-boilers. No. 130,211; Apr. 13; v. 273; p. 403.
Mears, William J., Kansas City, Mo. Medical preparation for treatment of colds. No. 136,523; Nov. 2; v. 280; p. 184.
Measuregraph Company, The, St. Louis, Mo. Fabric-measuring and cost-computing machines. No. 134,256; Aug. 24; v. 277; p. 778.
Mebane, A. D., Lockhart, Tex. Cotton-seed. No. 137,565; Nov. 30; v. 280; p. 999.
Mebane Bedding Co., The, Mebane, N. C. Felt mattresses. No. 134,736; Sept. 14; v. 278; p. 358.
Medart, Fred, Mfg. Co., St. Louis, Mo. Playground and gymnasium apparatus. No. 133,464; July 27; v. 276; p. 770.
Medici Society—American Branch,—Inc., Boston, Mass. Prints and publications. No. 134,027; Aug. 10; v. 277; p. 389.
Medici Society—American Branch—Inc., Boston, Mass. Prints and publications. No. 134,737; Sept. 14; v. 278; p. 358.
Medici Society—American Branch—Inc., Boston, Mass. Prints and publications. No. 136,094; Oct. 26; v. 279; p. 721.
Medley, Herbert E., San Francisco, Calif. Polish for varnished surfaces. No. 136,866; Nov. 9; v. 280; p. 381.
Meek Oven Manufacturing Company, Inc., New York, N. Y. Ovens for baking bread. No. 136,533; Nov. 2; v. 280; p. 184.
Meggeson & Co. Lt., London, England. Medicated pastils. No. 129,790; Mar. 9; v. 272; p. 365.
Megler, Nellie E., Brookfield, Wash. Fish, fresh, canned, or cured, particularly shad-cutlets and shad-roe in cans. No. 131,187; May 4; v. 274; p. 198.
Mehlin, Paul G., & Sons, New York, N. Y. Pianos. No. 134,738; Sept. 14; v. 278; p. 358.
Meisel Press Manufacturing Company, Boston, Mass. Machinery. No. 134,184; Aug. 17; v. 277; p. 582.
Meissner, C. R., Co., New York, N. Y. Embroidery-wool, wool threads, and threads made of linen, cotton, &c. No. 134,739; Sept. 14; v. 278; p. 358.
Meldram, Minnie M., New York, N. Y. Dolls. No. 135,282; Sept. 28; v. 278; p. 703.
Melhuish, Harold T., Amityville, N. Y. Antiseptic and healing ointment. No. 134,740; Sept. 14; v. 278; p. 358.
Melikian Cigarettes, Inc., Wilmington, Del., and Trenton, N. J. Cigarettes. No. 135,283; Sept. 28; v. 278; p. 703.
Melikian Cigarettes, Inc., Wilmington, Del., and Trenton, N. J. Cigarettes. No. 136,095; Oct. 26; v. 279; p. 721.
Mellier-Ferry Co., Kansas City, Mo. Ice-cream. No. 129,374; Feb. 17; v. 271; p. 508.
Meltow Medicine Company, Inc., McBee, S. C. Compound of medicine for the treatment of liver, kidney, and stomach troubles. No. 135,012; Sept. 21; v. 278; p. 533.
Melville Shoe Corporation, New York, N. Y. Yielding heels and heel-cushions for boots and shoes. No. 135,488; Oct. 12; v. 279; p. 344.
Melvin Candy Co., Chicago, Ill. Candy. Nos. 128,456–7; Jan. 6; v. 270; p. 182.
Melvin Candy Co., Chicago, Ill. Candy. No. 130,362; Apr. 20; v. 273; p. 622.
Memser, Joseph, New York, N. Y. Gowns. No. 133,007; July 6; v. 276; p. 203.
Menard, Joseph A., Seattle, Wash. Grinding compound for bearings and machine parts. No. 137,657; Nov. 30; v. 280; p. 999.
Mendelson, Abe M., New York, N. Y. Knitted sweaters. No. 130,546; Apr. 27; v. 273; p. 804.
Menefee. Josephine, Rocky Mount, Va. Bottled tomato sauce. No. 135,749; Oct. 19; v. 279; p. 530.
Mengel Box Company, Louisville, Ky. Fiber-board and corrugated fiber shipping containers or cartons. No. 136,534; Nov. 2; v. 280; p. 184.
Menist, J., Company, New York, N. Y. Condensed skimmed milk. No. 130,363; Apr. 20; v. 273; p. 622.
Menist, J., Company Inc., New York, N. Y. Canned fruits and vegetables. No. 130,364; Apr. 20; v. 273; p. 622.
Menist, J., Company, Inc., New York, N. Y. Canned goods, jams, condensed and evaporated milk. No. 130,547; Apr. 27; v. 273; p. 804.
Menist, J., Company, Inc., New York, N. Y. Canned vegetables and fruits. No. 134,027; Aug. 10; v. 277; p. 389.
Mennel Milling Company, Toledo, Ohio. Wheat-flour. No. 131,551; May 18; v. 274; p. 606.
Mennel Milling Company, The, Toledo, Ohio. Self-rising wheat-flour. No. 132,198; June 15; v. 275; p. 618.
Mennel Milling Company., The, Toledo, Ohio. Wheat-flour. No. 138,064; Dec. 14; v. 281; p. 399.
Mentzer, John P., Chicago, Ill. Dry storage batteries. No. 130,829; May 4; v. 274; p. 188.
Menzin, Morris, New York, N. Y. Men's dress-shirts. No. 133,743; Aug. 3; v. 277; p. 175.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Mercer and De Velvis, Alliance, Ohio. Certain medicines and pharmaceutical preparations. No. 136,096; Oct. 26; v. 279; p. 721.
Merchant & Evans Company, Philadelphia, Pa. Clutches and universal joints for motor-vehicles. No. 136,099; Oct. 26; v. 279; p. 721.
Merchant & Evans Company, Philadelphia, Pa. Grease-cups. No. 136,867; Nov. 9; v. 280; p. 381.
Merchant Loveys Leather Co., Boston, Mass. Leather. No. 134,741; Sept. 14; v. 278; p. 358.
Merchants' Coffee Co. of N. O. Ltd., New Orleans, La. Coffee. No. 137,658; Nov. 30; v. 280; p. 999.
Merchants Trade Association Company, Chicago, Ill. Leather boots and shoes. No. 135,284; Sept. 28; v. 278; p. 703.
Merck & Co., New York, N. Y. Extract of digitalis in powder, solution, and tablets. No. 138,484; Dec. 28; v. 281; p. 783.
Merido Drug & Mfg. Co., Meridian, Miss. Preparation for driving off mosquitos. No. 129,791; Mar. 9; v. 272; p. 365.
Meritone Medicine Co., Nashville, Tenn. Tonic for nervousness, indigestion, and general debility. No. 133,744; Aug. 3; v. 277; p. 175.
Mero Mills, Nashville, Tenn. Wheat-flour. No. 131,188; May 4; v. 274; p. 199.
Merrell, William S., Company, Cincinnati, Ohio. Laxatives and cathartics. No. 128,458; Jan. 6; v. 270; p. 182.
Merrell, William S., Company, Cincinnati, Ohio. Concentrated form of *Echinacea angustifolia*. No. 128,784; Jan. 13; v. 270; p. 341.
Merrell, William S., Company, Cincinnati, Ohio. Compound and ointment of iodin and oil. No. 131,552; May 18; v. 274; p. 606.
Merrell, William S., Company, The, Cincinnati, Ohio. Liquid heart-tonic. No. 132,458; June 22; v. 275; p. 820.
Merrell, William S., Company, The, Cincinnati, Ohio. Tablets, phenolphthalein. No. 138,485; Dec. 28; v. 281; p. 783.
Merrell, William S., Company, The, Cincinnati, Ohio. Capsules of benzol benzoate. No. 138,486; Dec. 28; v. 281; p. 783.
Merrill-Greer & Chapman, St. Paul, Minn. Glass jars. No. 135,489; Oct. 12; v. 279; p. 344.
Merrill-Hamilton Company, Kansas City, Mo. Lubricating-paste. No. 132,199; June 15; v. 275; p. 618.
Merrill-Hamilton Company, Kansas City, Mo. Lubricating-strips for leaf-springs. No. 136,097; Oct. 26; v. 279; p. 721.
Merrill Silk Company, Hornell and New York, N. Y. Fabric gloves. No. 136,535; Nov. 2; v. 280; p. 184.
Merrimac Packing Co., Lawrence, Mass. Stove-polishes. No. 136,274; Oct. 26; v. 279; p. 727.
Merritt, Stephen, New York, N. Y. Coffins, caskets, rough boxes. No. 130,830; May 4; v. 274; p. 188.
Mervis, Samuel, Baltimore, Md. Foods. No. 136,536; Nov. 2; v. 280; p. 184.
Mervis, Samuel, Baltimore, Md. Russian and salad dressings, olivenaise, &c. No. 137,834; Dec. 7; v. 281; p. 197.
Messayeh, Rizouk D., New York, N. Y. Cigarettes. No. 133,465; July 27; v. 276; p. 770.
Messmer, Fred, Mfg. Co., St. Louis, Mo. Non-alcoholic non-cereal maltless beverages. No. 129,184; Jan. 27; v. 270; p. 615.
Metal composition, Bese-. Landers, Frary & Clark. No. 132,727; June 29; v. 275; p. 1016.
Metal Forms Corporation, Milwaukee, Wis. Concrete forms and shaping devices. No. 137,334; Nov. 23; v. 280; p. 796.
Metal Hose & Tubing Co. Inc., Brooklyn, N. Y. Fabric-covered rubber hose with metal lining. No. 136,098; Oct. 26; v. 279; p. 721.
Metal Hose & Tubing Co. Inc., Brooklyn, N. Y. Rubber hose with metal lining. No. 138,065; Dec. 14; v. 281; p. 399.
Metal Mending Company of America, Bayonne, N. Y. Metallic cement. No. 130,548; Apr. 27; v. 273; p. 804.
Metal Office Furniture Co., Grand Rapids, Mich. Steel waste-baskets. No. 133,745; Aug. 3; v. 277; p. 175.
Metal Record and Electroplater Publishing Co., Inc., New York, N. Y. Monthly magazine. No. 129,792; Mar. 9; v. 272; p. 365.
Metalmend Manufacturing Co., Inc., Brooklyn, N. Y. Silver-plating compound. No. 138,487; Dec. 28; v. 281; p. 783.
Metals Disintegrating Company, Inc., New York, N. Y. Disintegrated metal, metal dust, or metal powder. No. 136,100; Oct. 26; v. 279; p. 721.
Metals & Thermit Corporation, Chrome, N. J. Tungsten. No. 133,163; July 13; v. 276; p. 403.
Metalwood Manufacturing Co., Detroit, Mich. Hydraulic machinery and equipment. No. 130,831; May 4; v. 274; p. 188.
Metcalf, D. D., Greenville, Ala. Shortening compound. No. 129,027; Jan. 20; v. 270; p. 474.
Metro Shirt Co., assignor to Maxim Shirt Co., New York, N. Y. Dress, negligée, and work shirts. No. 138,488; Dec. 28; v. 281; p. 783.
Metropol, Jack G., Manning, S. C. Non-alcoholic non-intoxicating non-cereal maltless beverage. No. 133,440; July 27; v. 276; p. 769.
Metropol, Jack G., Manning, S. C. Non-alcoholic, non-cereal, maltless beverages and syrups for making same. No. 137,835; Dec. 7; v. 281; p. 197.
Metropolitan Electric Mfg. Co., Long Island City, N. Y. Electric panel-boards. No. 128,785; Jan. 13; v. 270; p. 341.
Metropolitan Shirt Co., New York, N. Y. Men's dress and negligée shirts. No. 129,375; Feb. 17; v. 271; p. 508.
Metropolitan Shirt Co., New York, N. J. Men's dress and negligée shirts. No. 129,500; Feb. 24; v. 271; p. 680.
Metz, H. A., Laboratories, Inc., New York, N. Y. Anesthetics. No. 131,346; May 11; v. 274; p. 401.
Metz, Herman A., New York, N. Y. Dyestuffs and chemicals. No. 131,553; May 18; v. 274; p. 606.
Metz, Herman A., New York, N. Y. Medicines and pharmaceutical preparations. No. 132,743; June 29; v. 275; p. 1017.
Metzger, Louis, & Company, New York, N. Y. Sweaters, neckscarfs, shawls, &c. No. 138,489; Dec. 28; v. 281; p. 783.
Metzler, Jerome, New York, N. Y. Silks, satins, velvets, &c. No. 134,742; Sept. 14; v. 278; p. 358.
Mewhinney, A. B., Co., Terre Haute, Ind. Candy. No. 131,189; May 4; v. 274; p. 199.
Mewhinney, A. B., Co. Inc., Terre Haute, Ind. Chocolate candies. No. 131,190; May 4; v. 274; p. 199.
Mexican Products Corporation, Nogales, Ariz. Foods. No. 134,028; Aug. 10; v. 277; p. 389.
Mexico-Arizona Trading Company, Nogales, Ariz. Fresh fruits and vegetables. No. 134,414; Aug. 31; v. 277; p. 973.
Meyer Brothers Drug Company, St. Louis, Mo. Toilet preparations. No. 134,743; Sept. 14; v. 278; p. 358.
Meyer, Charles R., New Philadelphia, Ohio. Remedy for certain named ailments. No. 129,793; Mar. 9; v. 272; p. 365.
Meyer, Cyrus R., Baltimore, Md. Toilet preparations. No. 129,794; Mar. 9; v. 272; p. 365.
Meyer, Geo. J., Manufacturing Co., Milwaukee, Wis. Bottle-washing machines. No. 133,164; July 13; v. 276; p. 403.
Meyer, John F., Chicago, Ill. Coin-operated moving-picture-viewing machines. No. 133,746; Aug. 3; v. 277; p. 175.
Meyer, John H., Silk Mills Co., Northampton borough, Pa., and New York, N. Y. Silk piece goods. Nos. 132,200–1; June 15; v. 275; p. 618.
Meyer, John J., New York, N. Y. Cleaning compound. No. 130,090; Apr. 6; v. 273; p. 181.
Meyer, Milton J., & Co., Inc., New York, N. Y. Leather shoes. No. 130,832; May 4; v. 274; p. 188.
Meyer, Otto, & Co., New York, N. Y. Leather. No. 132,020; June 8; v. 275; p. 415.
Meyer, Otto, and Co., Inc., New York, N. Y. Leather shoes. No. 133,771; Aug. 3; v. 277; p. 176.
Meyer & Stüdeli, S. A., Soleure, Switzerland. Watches, clocks, and parts thereof. Nos. 137,336–8; Nov. 23; v. 280; p. 796.
Meyers, Chester, Cleveland, Ohio. Healing-ointments and foot-powders. No. 136,101; Oct. 26; v. 279; p. 721.
Meyrowitz, E. B., Inc., New York, N. N. Mechanical devices as an aid to hearing. No. 133,001; July 6; v. 276; p. 203.
Miami Chemical Co., Cincinnati, Ohio. Deodorant and antiseptic powders. No. 132,459; June 22; v. 275; p. 820.
Mica Condenser Co., Ltd., Boston, Mass. Electrical apparatus. No. 136,102; Oct. 26; v. 279; p. 721.
Michaelis, Harry M., New York, N. Y. Canned fruit-pulp. No. 129,994; Mar. 16; v. 272; p. 589.
Michaelson, David L., New York, N. Y. Biweekly publications. No. 135,490; Oct. 12; v. 279; p. 344.
Michigan Lubricator Company, Detroit, Mich. Water-gages, &c. Nos. 128,786–7; Jan. 13; v. 270; p. 341.
Michigan Lubricator Company, Detroit, Mich. Plumbing and steam-fitting supplies. No. 133,747; Aug. 3; v. 277; p. 175.
Michigan Lubricator Company, Detroit, Mich. Monthly publication. No. 134,029; Aug. 10; v. 277; p. 389.
Michigan Lubricator Company, Detroit, Mich. Radiator-valves. No. 135,750; Oct. 19; v. 279; p. 530.
Michigan Machine Company, Detroit, Mich. Pumps for pumping liquids. No. 131,347; May 11; v. 274; p. 401.
Michigan Motor Garment Co., Greenville, Mich. Clothing—namely, overalls and jackets for men, youths, and children. No. 132,202; June 15; v. 275; p. 619.
Michigan Service Corporation, Jackson, Mich. Coal-burning heaters and furnaces. No. 133,002; July 6; v. 276; p. 203.
Michigan Washing Machine Company, Muskegon, Mich. Laundry-washing machines. No. 128,459; Jan. 6; v. 270; p. 182.
Mickey Company, The, Hanover, Pa. Non-alcoholic non-cereal maltless orange-flavored syrup for carbonated soft drinks. No. 132,460; June 22; v. 275; p. 821.
Microba Antiseptic Company, The, Grand Forks, N. D. Antiseptics, medicines, and pharmaceutical preparations. No. 135,491; Oct. 12; v. 279; p. 344.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Micrometer Engineering Co., Ltd., Coventry, England. Bicycle and motorcycle saddles. No. 135,751; Oct. 19; v. 279; p. 530.
Midco Chemical Works, St. Louis, Mo. Chemicals. No. 136,727; Nov. 2; v. 280; p. 192.
Mid-Continent Tire Manufacturing Company, Wichita, Kans. Rubber tires and tubes. No. 129,795; Mar. 9; v. 272; p. 805.
Middlesex County Creamery Co., Boston, Mass. Oleomargarin. No. 135,013; Sept. 21; v. 278; p. 533.
Middletown Accessory-Laboratories Company, The, Middletown, Ohio. Tire-filling compound. No. 132,203; June 15; v. 275; p. 619.
Midland Playing Card Co., Chicago, Ill. Playing-cards. No. 134,744; Sept. 14; v. 278; p. 358.
Midwest Engine Co., Indianapolis, Ind. Tractors. No. 130,212; Apr. 13; v. 273; p. 403.
Midwest Engine Company, Indianapolis, Ind. Turbines and tractors. No. 128,460; Jan. 6; v. 270; p. 182.
Midwest Engine Company, Indianapolis, Ind. Tractors. No. 129,185; Jan. 27; v. 270; p. 615.
Midwest Engine Company, Indianapolis, Ind. Tractors. No. 129,501; Feb. 24; v. 271; p. 680.
Midwest Engine Company, Indianapolis, Ind. Tractors. No. 136,868; Nov. 9; v. 280; p. 881.
Mid-West Milling Company, The, Abilene, Kans. Wheat-flour. No. 129,376; Feb. 17; v. 271; p. 508.
Mid-West Milling Company, The, Abilene, Kans. Wheat-flour. No. 136,103; Oct. 26; v. 279; p. 721.
Midwest Flour & Feed Company, St. Louis, Mo. Wheat-flour, bran, middlings, &c. No. 130,549; Apr. 27; v. 273; p. 804.
Midwest Oil Company, Minneapolis, Minn. Lubricating oils and greases, kerosene, gasolene, road-oils, &c. No. 129,502; Feb. 24; v. 271; p. 680.
Mid West Products Company, Milwaukee, Wis. Non-alcoholic, non-cereal, maltless beverage. No. 136,809; Nov. 9; v. 280; p. 381.
Migel, J. A., Inc., New York, N. Y. Women's and misses' garments. No. 128,788; Jan. 13; v. 270; p. 341.
Migel, J. A., Inc., New York, N. Y. Silk piece goods. No. 132,021; June 8; v. 275; p. 415.
Migel, J. A., Inc. New York, N. Y. Parasols and umbrellas. No. 132,204; June 15; v. 275; p. 619.
Migel, J. A., Inc., New York, N. Y. Piece goods. No. 133,003; July 6; v. 276; p. 203.
Migel, J. A., Inc., New York, N. Y. Clothing for ladies, misses, and children. No. 133,283; July 20; v. 276; p. 591.
Migel, J. A., Inc., New York, N. Y. Parasols and umbrellas. No. 133,466; July 27; v. 276; p. 770.
Migel, J. A., Inc., New York, N. Y. Clothing. No. 133,748; Aug. 3; v. 277; p. 175.
Migel, J. A., Inc., New York, N. Y. Parasols and umbrellas. No. 133,749; Aug. 3; v. 277; p. 175.
Miles City Milling & Elevator Company, Miles City, Mont. Self-rising pancake-flour. No. 129,377; Feb. 17; v. 271; p. 508.
Miles, W. H., Shoe Co., Inc., Richmond, Va. Boots and shoes made of leather. No. 125,278; Sept. 28; v. 278; p. 704.
Millard Gum Vending Corporation, New York, N. Y. Chewing-gum and confectionery. No. 136,537; Nov. 2; v. 280; p. 185.
Miller-Bryant-Pierce Company, Aurora, Ill. Inked ribbons and carbon-papers. No. 136,538; Nov. 2; v. 280; p. 185.
Miller, Charles N., Co., Boston, Mass. Candy. No. 128,789; Jan. 13; v. 270; p. 341.
Miller, Charles N., Company, Boston, Mass. Candies. No. 128,790; Jan. 13; v. 270; p. 341.
Miller Chemical Co., The, Cincinnati, Ohio. Dry-cleaning compound. No. 129,797; Mar. 9; v. 272; p. 366.
Miller Cloak Co., The, Cleveland, Ohio. Auto-coats, raincoats, dress-coats, utility-coats. No. 129,186; Jan. 27; v. 270; p. 615.
Miller, Daniel, Company, Baltimore, Md. Cotton piece goods. No. 132,205; June 15; v. 275; p. 619.
Miller, Daniel H., Fort Worth, Tex. Compound for treating gall-stones and catarrh of the stomach and bowels. No. 129,503; Feb. 24; v. 271; p. 680.
Miller, Earle A., Co., Rochester, Ind. Monthly magazines. No. 129,796; Mar. 9; v. 272; p. 366.
Miller, Edward, & Co., Meriden, Conn. Electric-lighting fixtures and lamps. No. 135,014; Sept. 21; v. 278; p. 533.
Miller, Edward S., New York, N. Y., assignor to California Fruit Products Co., Inc. Non-alcoholic beverages and syrups for making same. No. 128,461; Jan. 6; v. 270; p. 182.
Miller, Ellis, New York, N. Y. Vehicle-tires. No. 133,750; Aug. 3; v. 277; p. 175.
Miller Flour Mills, Yakima, Wash. Wheat-flour. No. 138,066; Dec. 14; v. 281; p. 399.
Miller, Frank C., Fort Collins, Colo. Gasolene, lubricating-oils, and greases. No. 136,104; Oct. 26; v. 279; p. 721.
Miller, Fred, Brewing Co., Milwaukee, Wis. Non-intoxicating cereal malt beverage. No. 130,213; Apr. 13; v. 273; p. 403.
Miller and Hunold, Providence, R. I. Charms, pendants, and ornaments for neck-chains. No. 136,539; Nov. 2; v. 280; p. 185.
Miller, J. E., Chicago, Ill. Glass-cutters. No. 130,833; May 4; v. 274; p. 188.
Miller, James A., Clay Center, Kans. Optical goods and furnishings. No. 136,105; Oct. 26; v. 279; p. 721.
Miller Lock Company, Philadelphia, Pa. Locks. No. 133,284; July 20; v. 276; p. 591.
Miller & Macowsky, San Francisco, Calif. Children's frocks, wash-suits, rompers, &c. No. 135,752; Oct. 19; v. 279; p. 530.
Miller Rubber Co., The, Akron, Ohio. Rubber sponges. No. 132,206; June 15; v. 275; p. 619.
Miller Rubber Co., The, Akron, Ohio. Water-bottles, syringe-bags, combination-syringes, and rubber tubes. No. 133,005; July 6; v. 276; p. 203.
Miller Rubber Company, The, Akron, Ohio. Rubber water-bags and bottles. No. 133,004; July 6; v. 276; p. 203.
Miller Rubber Company, The, Akron, Ohio. Tires and supplies. No. 135,871; Oct. 19; v. 279; p. 536.
Miller Rubber Company, The, Akron, Ohio. Rubber baby-pants and diaper-covers. No. 137,660; Nov. 30; v. 280; p. 999.
Miller, Solomon S., Reading, Pa. Men's hosiery. No. 137,915; v. 281; p. 201.
Miller, Stanley G., Chicago, Ill. Yearly interest-tables. No. 133,467; July 27; v. 276; p. 770.
Miller, Thomas H., Johnson City, N. Y. Deodorizing-powders. No. 129,504; Feb. 24; v. 271; p. 680.
Miller, Thomas R. E., Evansville, Ind. Metal pipes, pipe-couplings, reducers, unions, and elbows. No. 134,185; Aug. 17; v. 277; p. 582.
Miller, Vincent F., San Antonio, Tex. Cordial, skin-cream, &c. No. 128,912; Jan. 13; v. 270; p. 345.
Miller-Walker Laboratories, Detroit, Mich. Shoe-dressing in the form of a white dry powder. No. 137,335; Nov. 23; v. 280; p. 706.
Miller, Willard A., Cambridge, Mass. Candy. No. 134,030; Aug. 10; v. 277; p. 389.
Millers Milling Company, The, Enid, Okla. Wheat-flour. No. 136,275; Oct. 26; v. 279; p. 727.
Millers Milling Company, The, Enid, Okla. Wheat-flour. No. 137,916; Dec. 7; v. 281; p. 201.
Millhauser, David, New York, N. Y. Chewing-gum. No. 129,028; Jan. 20; v. 270; p. 474.
Millichamp, F. Stanley, Wapato, Wash. Fresh apples. No. 130,929; May 4; v. 274; p. 191.
Milliken, William S., Brooklyn, N. Y. Hand fire-extinguishers. No. 136,106; Oct. 26; v. 279; p. 721.
Millman, Abe, New York, N. Y. Infants' and children's dresses. No. 130,834; May 4; v. 274; p. 188.
Mills, Angier, Ashland, Mass. Waterproof wrapping and lining paper. No. 134,745; Sept. 14; v. 278; p. 358.
Mills Brothers Company, The, Cincinnati, Ohio. Powder to be used as a washing preparation. No. 134,031; Aug. 10; v. 277; p. 389.
Mills Brothers Company, The, Cincinnati, Ohio. Soap. No. 135,015; Sept. 21; v. 278; p. 533.
Mills Brothers Company, The, Cincinnati, Ohio. Toilet and shaving soap, shaving-cream, shampoo-soap, and metal-polish. No. 136,540; Nov. 2; v. 280; p. 185.
Mills, Chester S., Pittsburgh, Pa. Medicated tablets used as a laxative. No. 132,461; June 22; v. 275; p. 821.
Mills & Gibb Corporation, New York, N. Y. Cotton piece goods. No. 137,753; Nov. 30; v. 280; p. 1003.
Milton Brick Company, Milton, Pa. Building tile and brick, paving-brick, &c. No. 130,550; Apr. 27; v. 273; p. 804.
Milton Manufacturing Company, Limited, London, England. Disinfecting fluids. No. 129,379; Feb. 17; v. 271; p. 508.
Milton, Michael, New York, N. Y. Writing-paper. No. 128,791; Jan. 13; v. 270; p. 341.
Milwaukee Air Power Pump Company, Milwaukee, Wis. Pneumatic water pumping and supply systems. No. 128,792; Jan. 13; v. 270; p. 341.
Milwaukee Steel Foundry Company, Milwaukee, Wis. Metal castings and alloys of steel and iron. Nos. 136,541–2; Nov. 2; v. 280; p. 185.
Milwaukee Talking Machine Manufacturing Co., Milwaukee, Wis. Phonographs and phonograph-cabinets. No. 130,091; Apr. 6; v. 273; p. 181.
Mims, J. H., Boston, Ga. Medicine for constipation, torpid liver, indigestion, &c. No. 134,550; Sept. 7; v. 278; p. 161.
Minkenhof, S., & Company, New York, N. Y. Textile fabrics. No. 136,107; Oct. 26; v. 279; p. 722.
Minneapolis General Electric Company, The, Jersey City, N. J., and Minneapolis, Minn. Incandescent electric lamps, electric toasters, flatirons, and air-heaters. No. 135,753; Oct. 19; v. 279; p. 530.
Minnesota Roofing & Cornice Works. Fire-doors. No. 135,754; Oct. 19; v. 279; p. 530.
Minnesota Stove Co., Minneapolis, Minn. Porcelain-enamel-coated metal sheets, plates, and angle-pieces. No. 131,191; May 4; v. 274; p. 199.
Minnesota Tobacco Company, Duluth, Minn. Cigarettes. No. 133,465; July 27; v. 276; p. 770.
Minnick, Howard B., Chicago, Ill. Toy molds. No. 130,551; Apr. 27; v. 273; p. 804.
Mint Products Company, Inc., New York, N. Y. Chewing-gum and candy. No. 128,462; Jan. 6; v. 270; p. 182.
Mint Products Co. Inc., New York, N. Y. Candy. No. 137,043; Nov. 16; v. 280; p. 584.
Minwax Company, Inc., New York, N. Y. Varnish composition. No. 132,207; June 15; v. 275; p. 619.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Miracle Company, Chicago, Ill. Non-alcoholic fruit beverage. No. 132,208; June 15; v. 275; p. 619.
Miracle Salve Company, Buffalo, N. Y. Salve for blood-poisoning, boils, cuts, carbuncles, &c. No. 136,543; Nov. 2; v. 280; p. 185.
Mirete Ayala, Angel, Madrid, Spain. Solder for aluminium. No. 131,406; May 18; v. 274; p. 601.
Mitchell & Dillon Coal Co., Chicago, Ill. Coal. No. 132,022; June 8; v. 275; p. 415.
Mitchell, Harry C., New York, N. Y. Outfits for teaching and practice of drawing. No. 136,870; Nov. 9; v. 280; p. 381.
Mitchell Hosiery Company, Columbus, Ohio. Hosiery. No. 133,470; July 27; v. 276; p. 770.
Mitchell, Robert G., Mount Vernon, N. Y. Phonographs, talking-machines, sound-boxes, and needles therefor. No. 132,744; June 29; v. 275; p. 1017.
Mitchell, T. J. & Co., Inc., New York, N. Y. Silk goods in the piece. No. 133,469; July 27; v. 276; p. 770.
Mitchell-Tappen Company, New York, N. Y. Metal grating. No. 132,745; June 29; v. 275; p. 1917.
Mitchell, William, (Pens) Limited, Smethwick, near Birmingham, England. Stationery articles. No. 131,802; May 25; v. 274; p. 832.
Mittelman, I., & Co., New York, N. Y. Ladies' and children's dresses. No. 133,286; July 20; v. 276; p. 591.
Miyauchi, Kiichi, Nodasam-Mura, Nodasam-Gun, Japan. Canned lobster, crabs, fish, and shell-fish. No. 128,463; Jan. 6; v. 270; p. 182.
Moadinger, Edgar L., New York, N. Y. Medicine for rheumatic ailments. No. 132,746; June 29; v. 275; p. 1017.
Moberg, John H., Chicago, Ill. Automobile-springs. No. 134,415; Aug. 31; v. 277; p. 973.
Modern Food Company, New York, N. Y. Powder convertible into beverages. No. 132,747; June 29; v. 275; p. 1017.
Modern Macaroni Manufacturing Company, Brooklyn, N. Y. Macaroni. No. 138,067; Dec. 14; v. 281; p. 399.
Modernola Co., Somerset, Pa. Talking-machines. No. 130,092; Apr. 6; v. 273; p. 181.
Moench, C., Sons Company, The, Boston, Mass. Leather. No. 129 900; Feb. 10; v. 271; p. 356.
Moench, C., Sons Company, The, Boston, Mass. Manufactured leather. Nos. 129,301–2; Feb. 10; v. 271; p. 356.
Moerlein, Christian Brewing Co., The, Cincinnati, Ohio. Beer. Nos. 136,371–2; Nov. 2; v. 280; p. 179.
Mohawk Silk Fabric Co., New York, N. Y. Silk and mocha-suede gloves and underwear. No. 138,292; Dec. 21; v. 281; p. 565.
Mohler, Edwin R., Reading, Pa. Expectorant. No. 138,490; Dec. 28; v. 281; p. 783.
Moldenhauer, Henry R., Watertown, Wis. Brick-cheese. No. 135,016; Sept. 21; v. 278; p. 533.
Moline Heat, Moline, Ill. Heating and ventilating apparatus. No. 128,793; Jan. 13; v. 270; p. 341.
Moller, Conrad G., New Canaan, Conn. Soaps for cleaning and scouring purposes. No. 133,751; Aug. 3; v. 277; p. 175.
Moller, Conrad G., New Canaan township, Fairfield county, Conn. Soap. No. 134,032; Aug. 10; v. 277; p. 389.
Moluska Corporation, New York, N. Y. Canned concentrated clam and oyster-juices. No. 135,286; Sept. 28; v. 278; p. 704.
Monarch Company, The, New York, N. Y. Boys' dress-shirts and blouses. No. 136,108; Oct. 26; v. 279; p. 722.
Monarch Foundry Company, Stockton, Calif. Iron, steel, brass, bronze, and aluminum castings and forgings of all kinds. No. 133,752; Aug. 3; v. 277; p. 175.
Monarch Leather Company, Chicago, Ill. Leather. Nos 133,471–2; July 27; v. 276; p. 770.
Monarch Leather Company, Chicago, Ill. Leather. No. 135,372; Sept. 28; v. 278; p. 707.
Monarch Manufacturing Company, Atlanta, Ga. Non-alcoholic, non-intoxicating, maltless non-cereal beverage. No. 135,492; Oct. 12; v. 279; p. 344.
Monarch Mfg. Co., Atlanta, Ga. Non-alcoholic, &c., beverage. No. 131,348; May 11; v. 274; p. 401.
Monopole Vineyards Corp., New York, N. Y. Maltless non-alcoholic fruit beverages. Nos. 129,187–8; Jan. 27; v. 270; p. 615.
Monopole Vineyards Corp., New York, N. Y. Maltless non-alcohol fruit beverages. No. 130,214; Apr. 13; v. 273; p. 403.
Monroe Calculating Machine Company, Orange, N. J. Calculating and adding machines. No. 129,029; Jan. 20; v. 270; p. 474.
Monument Pottery Co., The, Trenton, N. J. Plumbing supplies. No. 133,753; Aug. 3; v. 277; p. 175.
Moody, Charles E., & Co., Inc., Boston, Mass. Canned fruits and vegetables. No. 135,493; Oct. 12; v. 279; p. 344.
Moore, Edward, New York, N. Y. Miniature theaters. No. 113,165; July 13; v. 276; p. 403.
Moore Electric Corporation, The, Chicago, Ill. Electric hair-clippers, motors, and hair-driers. No. 133,006; July 6; v. 276; p. 203.
Moore Pen Company, Boston, Mass. Fountain-pens. No. 129,798; Mar. 9; v. 272; p. 366.
Moore & Thompson Paper Company, Bellows Falls, Vt. Wrapping-paper. No. 135,017; Sept. 21; v. 278; p. 533.
Morcott Co., Inc., New York, N. Y. Piece goods of cotton, silk, and silk and cotton mixtures. No. 131,554; May 18; v. 274; p. 606.
Morey and Company, Cambridge, Mass. Finished paper-stock, book-paper, newspaper, and wrapping-paper. No. 135,018; Sept. 21; v. 278; p. 533.
Morey Mercantile Company, The, Denver, Colo. Brooms. No. 138,068; Dec. 14; v. 281; p. 399.
Morey, Robert G., North Prairie, Wis. Sweetened condensed milk and unsweetened evaporated milk. No. 131,555; May 18; v. 274; p. 606.
Morgan Crucible Compy., Ld., Battersea, London, England. Brushes for dynamos and electric motors. No. 131,192; May 4; v. 274; p. 199.
Morgan Knitting Mills, Inc., Newark, N. J., and New York, N. Y. Knit gloves. No. 133,166; July 13; v. 276; p. 403.
Morgan Knitting Mills, Inc., Newark, N. J., and New York, N. Y. Wool gloves. No. 133,754; Aug. 3; v. 277; p. 175.
Morgan Manufacturing Company, Inc., The, Keene, N. H. Automobile specialties. No. 130,552; Apr. 27; v. 273; p. 804.
Morgan, Margaret, Milwaukee, Wis. Skin-cream. No. 136,109; Oct. 26; v. 279; p. 722.
Morgenstern & Company, New York, N. Y. Phenylcinchoninic acid. No. 132,748; June 29; v. 275; p. 1017.
Morgenthal, Otto, Dayton, Ohio. Fuel-ignition substance. No. 128,794; Jan. 13; v. 270; p. 341.
Morgo Oil Co., Buffalo, N. Y. Lubricating-oil. No. 136,110; Oct. 26; v. 279; p. 722.
Morley Button Manufacturing Company, Portland, Me., and Boston, Mass. Non-metallic buttons. No. 130,215; Apr. 13; v. 273; p. 403.
Morningstar, Chas., & Co. Inc., New York, N. Y. Flour and food starches from whatever base produced. No. 128,464; Jan. 6; v. 270; p. 182.
Morrell, John, & Co., Ottumwa, Iowa. Eggs. No. 130,835; May 4; v. 274; p. 188.
Morrell, John, & Co., Ottumwa, Iowa. Breakfast-bacon. No. 131,915; May 25; v. 274; p. 836.
Morrell, John, & Co., Ottumwa, Iowa. Breakfast-bacon. No. 135,494; Oct. 12; v. 279; p. 344.
Morrell, John, & Company, Ottumwa, Iowa. Breakfast-bacon. No. 128,795; Jan. 13; v. 270; p. 341.
Morris, Harvey D., Port Arthur, Tex. Germicide, &c., preparation. No. 128,465; Jan. 6; v. 270; p. 182.
Morris, Rashkis, Inc., New York, N. Y. Fabric puttees. No. 128,494; Jan. 6; v. 270; p. 183.
Morris & Yeomans Limited, Redditch, England. Needles for talking-machines. No. 131,890; May 25; v. 274; p. 835.
Morris & Yeomans, Limited, Reddich, England. Hand-needles, hat, toilet, safety, and hair pins, button-hooks, &c. No. 134,516; Sept. 7; v. 278; p. 160.
Morris & Yeomans, Limited, Redditch, England. Boot-drivers, boot-awls, machinery-springs. No. 135,019; Sept. 21; v. 278; p. 533.
Morrison Bros. Mills, Jefferson, Okla. Highest patent flour. No. 134,033; Aug. 10; v. 277; p. 389.
Morrison, John, Jr., Glens Falls, N. Y. Hair and clothes brushes, shoe brushes and daubers. No. 130,836; May 4; v. 274; p. 188.
Morse, A. G., Co., Chicago, Ill. Candy. No. 134,034; Aug. 10; v. 277; p. 389.
Morse, A. G., Co., Chicago, Ill. Candy. No. 136,111; Oct. 26; v. 279; p. 722.
Morse, A. G., Co., Chicago, Ill. Candy. No. 137,836; Dec. 7; v. 281; p. 197.
Moses, David, Philadelphia, Pa. Muslins. No. 129,799; Mar. 9; v. 272; p. 366.
Moses Eadon & Sons, Limited, Sheffield, England. Steel. No. 131,449; May 18; v. 274; p. 602.
Moshontz Bros. & Co., Cleveland, Ohio. Women's dresses. No. 128,796; Jan. 13; v. 270; p. 341.
Moskowitz, Joseph, Brooklyn, N. Y. Wheat-flour. No. 134,035; Aug. 10; v. 277; p. 389.
Moss, Henry, & Co. Inc., New York, N. Y. Stencils, oil-board, wax seals, and rubber bands. No. 135,020; Sept. 21; v. 278; p. 533.
Motion Picture News, Inc., New York, N. Y. Weekly magazine. No. 135,287; Sept. 28; v. 278; p. 704.
Moton Company, Detroit, Mich. Decarbonizer. No. 129,380; Feb. 17; v. 271; p. 508.
Motor-Car Supplies Manufacturing Company, Denver, Colo. Dressing for fabrics and leather. No. 133,473; July 27; v. 276; p. 770.
Motor Oils Inc., Chicago, Ill. Lubricating-oils, gear and cup greases. No. 136,112; Oct. 26; v. 279; p. 722.
Motorlife Oil Company, Athens, Ga. Lubricating oils and greases. No. 131,916; May 25; v. 274; p. 836.
Moulton, Mace, Jr., Boston, Mass. Prepared bituminous concrete. No. 133,287; July 20; v. 276; p. 591.
Mount Airy Canning Co., The, Mount Airy, Md. Canned vegetables. No. 132,749; June 29; v. 275; p. 1017.
Mt. Ida Packing Company, Oroville, Calif. Pickled olives. No. 131,193; May 4; v. 274; p. 199.
Mount Royal Corporation, New York, N. Y. Military insignia. No. 130,093; Apr. 6; v. 273; p. 181.
Mt. Tom Hat Manufacturing Company, Inc., Easthampton, Mass. Men's hats. No. 134,746; Sept. 14; v. 278; p. 358.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Mount Vernon Company Silversmiths Incorporated, Mount Vernon, N. Y. Surgical instruments. No. 136,871; Nov. 9; v. 280; p. 381.
Mount Vernon-Woodberry Mills, Incorporated, Baltimore, Md. Cotton twine. No. 129,995; Mar. 16; v. 272; p. 539.
Mountain Mill Paper Company, Lee, Mass. Grease-proof parchment-paper. No. 137,917; Dec. 7; v. 281; p. 201.
Movette, Incorporated, Rochester, N. Y. Motion-picture sundries. No. 133,755; Aug. 3; v. 277; p. 175.
Mowbray & Robinson Company, Wilmington, Del., and Cincinnati, Ohio. Lumber and hardwood flooring. No. 133,288; July 20; v. 276; p. 591.
Moxley, Wm. J., Inc., Chicago, Ill. Oleomargarin. No. 137,837; Dec. 7; v. 281; p. 197.
Moyer, Walter W., Ephrata, Pa. Ladies' vests and union-suits of knitted fabric. No. 133,756; Aug. 3; v. 277; p. 175.
Muehleisen, Thomas, San Diego, Calif. Automatic gas water-heaters. No. 129,996; Mar. 16; v. 272; p. 539.
Mueller, Emil, Springfield, Ohio. Composition rubbing-stone. No. 132,209; June 15; v. 275; p. 619.
Mulcahy, Thomas J., New York, N. Y. Hosiery and women's underwear. No. 136,545; Nov. 2; v. 280; p. 185.
Mulholland, John H., Philadelphia, Pa. Wooden spoons. No. 133,167; July 13; v. 276; p. 403.
Muller, Charles, Chicago, Ill. Blown-oil asphalts. No. 132,023; June 8; v. 275; p. 415.
Muller Export Company, New York, N. Y., and Chicago, Ill. Hosiery. No. 134,747; Sept. 14; v. 278; p. 358.
Muller-Thym, Bernard, Kansas City, Mo. Oil for sanctuary lamps and candles. No. 132,263; June 15; v. 275; p. 621.
Mullikin, Wm. T., Co. Inc., Philadelphia, Pa. Peanut-butter and salted peanuts. No. 129,506; Feb. 24; v. 271; p. 680.
Mullins, A., Ranger, Tex. Lubricating-oil. No. 135,755; Oct. 19; v. 279; p. 530.
Multiple Electric Products Company, Inc., New York, N. Y. Electrical apparatus, machines, and supplies. No. 134,086; Aug. 10; v. 277; p. 389.
Munising Paper Company, Munising, Mich. Bond, writing, and printing paper. No. 138,398; Dec. 21; v. 281; p. 571.
Munn, R. J., & Bros., Boston, Mass. Artificial flowers. No. 134,321; Aug. 24; v. 277; p. 783.
Munro, Allan P., Cincinnati, Ohio. Non intoxicating maltless beverage. No. 133,757; Aug. 3; v. 277; p. 175.
Munyon's Homœopathic Home Remedy Company, Philadelphia, Pa. Toilet soap. No. 138,069; Dec. 14; v. 281; p. 399.
Murdock, Albert E., South Hingham, Mass. Malt extracts, concentrated food-powders, &c. No. 134,416; Aug. 31; v. 277; p. 973.
Murdock, C. A., Mfg. Co., Kansas City, Mo. Laundry bluing. No. 131,556; May 18; v. 274; p. 606.
Muro Wall Board Company, Inc., Buffalo, N. Y. Wall-board and building-paper. No. 134,517; Sept. 7; v. 278; p. 160.
Murphy, Emmett L., Chicago, Ill. Belt-dressings. No. 136,872; Nov. 9; v. 280; p. 381.
Murphy, Jos. B., Sons, St. Louis, Mo. Chocolate rolls and candles. No. 135,495; Oct. 12; v. 279; p. 344.
Murray Company, Dallas, Tex. Machinery and parts thereof. No. 129,189; Jan. 27; v. 270; p. 615.
Murray, John F., New York, N. Y. Laxative liquid and liver-stimulant for indigestion, &c. Nos. 129,507–8; Feb. 24; v. 271; p. 680.
Murray, Robt. W., Birmingham, Ala. Medicinal treatment for colds and grippe. No. 134,749; Sept. 14; v. 279; p. 358.
Musher & Company Inc., New York, N. Y. Sesame-oil. No. 128,798; Jan. 13; v. 270; p. 341.
Musher & Company Incorporated, New York, N. Y.; Baltimore, Md.; San Diego, Calif., and Washington, D. C. Peanut-oil. No. 128,797; Jan. 13; v. 270; p. 341.
Musher & Company, Incorporated, New York, N. Y.; Baltimore, Md.; San Diego, Calif., and Washington, D. C. Table and cooking oils, sauces, dressings. No. 129,030; Jan. 20; v. 270; p. 474.
Musher & Company, Incorporated, Washington, D. C.; Baltimore, Md., and San Diego, Calif. Canned, fresh, &c., fish. No. 129,509; Feb. 24; v. 271; p. 680.
Musher & Company, Incorporated, New York, N. Y.; Baltimore, Md.; San Diego, Calif., and Washington, D. C. Cured and preserved fish, edible virgin vegetable oils, &c. No. 131,557; May 18; v. 274; p. 606.
Musher & Company, Incorporated, New York, N. Y.; San Diego, Calif.; Baltimore, Md., and Washington, D. C. Olive-oil. No. 132,024; June 8; v. 275; p. 415.
Musher & Company, Incorporated, Baltimore, Md. Olive-oil. No. 134,037; Aug. 10; v. 277; p. 389.
Music Table Company, The, Greenfield, Ohio. Phonographs. No. 130,837; May 4; v. 274; p. 188.
Muskato Beverage Company, New Orleans, La. Beverage, non-alcoholic, sold as a soft drink. No. 135,756; Oct. 19; v. 279; p. 530.
Mutschler Bros. Co., Nappanee, Ind. Office and directors' tables. No. 129,997; Mar. 16; v. 272; p. 539.
Mutschler Bros. Co., Nappanee, Ind. Kitchen-tables. No. 129,998; Mar. 16; v. 272; p. 540.
Mutual Creamery Company, Salt Lake City, Utah. Eggs subjected to a preservative process. No. 134,257; Aug. 24; v. 277; p. 778.
Mutual Drug Company, Ellenville, N. Y. Skin-lotions. No. 135,288; Sept. 28; v. 278; p. 704.
Mutual Service Corporation, New York, N. Y. Sweet potatoes in their natural state. No. 134,417; Aug. 31; v. 277; p. 973.
Mutual Trading Company, New York, N. Y. Bedspreads, comfortables, and blankets. No. 135,496; Oct. 12; v. 279; p. 344.
Myers, Darling & Hinton Co., Los Angeles, Calif. Fresh fruits. No. 137,044; Nov. 16; v. 280; p. 584.
Myers Manufacturing Company, Los Angeles, Calif. Outing and hiking suits. No. 129,510; Feb. 24; v. 271; p. 680
Myers, W. F., Cambridge, Ohio. Chemical carbon-solvent and fuel-saver. No. 128,466; Jan. 6; v. 270; p. 182.
N. & P. Varnishfood Company, Spokane, Wash. Automobile and furniture polish. No. 131,869; May 25; v. 274; p. 835.
N. & S. Engine Co., Seattle, Wash. Internal-combustion engines, &c. No. 130,714; May 4; v. 274; p. 184.
N. V. Handelsvereeniging Gebrs. Rikkers, Amsterdam, Netherlands. Lead-pencils, writing-pens, and rubber erasers. No. 132,162; June 15; v. 275; p. 617.
N. V. Overschiesche, Land- en Tuinbouw-Maatschappij, Overschie, near Rotterdam, Netherlands. Soup, broth, beef-tea, &c. No. 129,820; Mar. 9; v. 272; p. 366.
Naamlooze Vennootschap J. A. Carp's Garenfabricken, Helmond, Netherlands. Thread and yarn. No. 135,497; Oct. 12; v. 279; p. 344.
Naamlooze Vennootschap Anton Jurgens' Margarinefabrieken, Oss, Netherlands. Foods for stock-feeding purposes, animal and vegetable fats and oils for food purposes. No. 138,070; Dec. 14; v. 281; p. 399.
Naches Cold Storage Co., Yakima, Wash. Fresh apples and pears. No. 136,873; Nov. 9; v. 280; p. 381.
Nacoma Textile Co., New York, N. Y. Woolen dress piece goods and fancy cotton piece goods. No. 132,210; June 15; v. 275; p. 619.
Naday & Fleischer, Inc., New York, N. Y. Cotton piece goods. No. 136,113; Oct. 26; v. 279; p. 722.
Naday & Fleischer, Inc., New York, N. Y. Artificial silk piece goods. No. 136,547; Nov. 2; v. 280; p. 185.
Nagano, Shinsaku, Chicago, Ill. Sauces for seasoning foods. No. 134,038; Aug. 10; v. 277; p. 389.
Nagle, W. E., & Son, Pittsburgh, Pa. Rivet-sets, chisel-blanks, reamers, and drills. No. 133,758; Aug. 3; v. 277; p. 175.
Nailcrete Corporation, Forest Hills, N. Y. Sleepers of cementitious material. No. 137,340; Nov. 23; v. 280; p. 796.
Nakayama, Taichi, Osaka, Japan. Soap and washing-powder. No. 137,339; Nov. 23; v. 280; p. 796.
Nakayama, Toyozo, Osaka, Japan. Stationery. No. 135,021; Sept. 21; v. 278; p. 533.
Napco Corporation, The, Indianapolis, Ind. Glue. No. 133,759; Aug. 3; v. 277; p. 175.
Napco Corporation, Indianapolis, Ind. Pastelike preparation for shaving and skin-healing purposes. No. 135,022; Sept. 21; v. 278; p. 533.
Napier Saw Works, Inc., Springfield, Mass. Saws and saw-frames and metal-cutting band-saw machines. No. 132,211; June 15; v. 275; p. 619.
Napoleon, Mrs. Mary, Albuquerque, N. Mex. Ointments for burns, warts, &c. No. 128,799; Jan. 13; v. 270; p. 341.
Nardi, Pasquali, New York, N. Y. Ladies' riding habits. No. 133,776; Aug. 3; v. 277; p. 176.
Narragansett Bay Oyster Co., Providence, R. I. Fresh, dried, and canned oysters. Nos. 130,365–6; Jan. 6; v. 273; p. 622.
Narrow Fabric Co., The, Wyomissing borough, near Reading, Pa. Notions. No. 134,750; v. 278; p. 358.
Narrow Fabric Co., The, Wyomissing borough, Pa. Notions and fancy goods. No. 136,114; Oct. 26; v. 279; p. 722.
Nash Engineering Company, South Norwalk, Conn. Air-compressors, vacuum heating-pumps, &c. No. 129,190; Jan. 27; v. 270; p. 615.
Nash Engineering Co., South Norwalk, Conn. Steam-engineering appliances, &c. No. 129,191; Jan. 27; v. 270; p. 615.
Nash Engineering Co., South Norwalk, Conn. Relief and ball float valves for machinery. No. 130,838; May 4; v. 274; p. 188.
Nash Engineering Co., South Norwalk, Conn. Couplings for machinery, pumps, and compressors, &c. No. 136,874; Nov. 9; v. 280; p. 381.
Nashua Manuf. Company, Nashua, N. H. Cotton blankets. No. 129,800; Mar. 9; v. 272; p. 366.
Nashua Manufg. Company, Nashua, N. H. Cotton blankets. Nos. 131,195–6; May 4; v. 274; p. 199.
Nashville Roller Mills, Nashville, Tenn. Wheat-flour. No. 130,839; May 4; v. 274; p. 188.
Nashville Roller Mills, Nashville, Tenn. Wheat-flour. No. 131,194; May 4; v. 274; p. 199.
Nashville Roller Mills, Nashville, Tenn. Wheat-flour. No. 134,039; Aug. 10; v. 277; p. 389.

Digitized by Google

Nathan and Cohen Co., New York, N. Y. Silk-filled crêpe-de-chine piece goods. No. 133,289; July 20; v. 276; p. 591.
Nathan and Cohen Co., Inc., New York, N. Y. Silk-filled crêpe-de-chine piece goods. No. 134,418; Aug. 31; v. 277; p. 973.
National Aniline & Chemical Company, Incorporated, New York, N. Y. Oil of peppermint used as a flavor for soft drinks. No. 129,192; Jan. 27; v. 270; p. 615.
National Aniline & Chemical Company, Incorporated, New York, N. Y. Food-colors. No. 129,511; Feb. 24; v. 271; p. 680.
National Aniline & Chemical Company, Incorporated, New York, N. Y. Food-colors. Nos. 131,349–56; May 11; v. 274; p. 401.
National Aniline & Chemical Company, Incorporated, New York, N. Y. Food-colors. Nos. 131,558–61; May 18; v. 274; p. 606.
National Aniline & Chemical Company, Incorporated, New York, N. Y. Food-colors. No. 136,548; Nov. 2; v. 280; p. 185.
National Aniline & Chemical Company, Incorporated, New York, N. Y. Dyestuffs. Nos. 138,203–320; Dec. 21; v. 281; pp. 565–6.
National Aniline & Chemical Company, Incorporated, New York, N. Y. Food-colors. No. 138,491; Dec. 28; v. 281; p. 783.
National Art Company, New York, N. Y. Paper for box-coverings. No. 137,341; Nov. 23; v. 280; p. 796.
National Association of Employment Managers, Orange, N. J. Bulletins in form of pamphlets. No. 134,040; Aug. 10; v. 277; p. 389.
National Belting Company, Elyria, Ohio. Work-shirts. No. 129,303; Feb. 10; v. 271; p. 356.
National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. No. 131,197; May 4; v. 274; p. 199.
National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. Nos. 132,750–3; June 29; v. 275; p. 1017.
National Blue Corporation, New York, N. Y. Laundry blue. Nos. 131,813–5; May 25; v. 274; p. 832.
National Blue Ribbon Remedy Company, St. Louis, Mo. Poultry-powder, lice-killer, preparation for treatment of chicken-cholera and roup. No. 128,800; Jan. 13; v. 270; p. 341.
National Brass Company, Grand Rapids, Mich. Hardware supplies. No. 133,168; July 13; v. 276; p. 403.
National Brewers Academy & Consulting Bureau, New York, N. Y. Compound for improving the character or quality of beer or near beer. No. 135,289; Sept. 28; v. 278; p. 704.
National Brewers' Academy & Consulting Bureau, The, New York, N. Y. Brewing adjunct containing an ingredient of a malt nature. No. 138,195; Dec. 14; v. 281; p. 405.
National Building Company, The, Cleveland, Ohio. Composition for making concrete slabs. No. 133,290; July 20; v. 276; p. 591.
National Canners Association, Washington, D. C. Printed labels, pamphlets, folders, &c. No. 136,875; Nov. 9; v. 280; p. 381.
National Car Coupler Company, Attica, Ind. Car-couplings. Nos. 138,071–2; Dec. 14; v. 281; p. 399.
National Carbon Company, Inc., New York, N. Y. Electrical goods. No. 135,757; Oct. 19; v. 279; p. 580.
National Carbon Company Inc., New York, N. Y. Electric meters. No. 137,045; Nov. 16; v. 280; p. 584.
National Carbon Company, Inc., New York, N. Y. Electric batteries for flash-lights and dry batteries. No. 137,754; Nov. 30; v. 280; p. 1003.
National Carbon Company, Inc., New York, N. Y. Luting compounds. No. 138,073; Dec. 14; v. 281; p. 399.
National Cash Register Company, Dayton, Ohio. Filing-cabinets and parts of same. No. 133,291; July 20; v. 276; p. 591.
National Cash Register Company, The, Dayton, Ohio. Machines for printing, issuing, recording, and registering tickets, and their parts. No. 134,258; Aug. 24; v. 277; p. 778.
National Cash Register Company, The, Dayton, Ohio. Combined electrical printing or marking and communicating system and apparatus and parts thereof. No. 136,876; Nov. 9; v. 280; p. 381.
National Chain Company, New York, N. Y. Antiskid-chains. No. 128,801; Jan. 13; v. 270; p. 341.
National Cloak & Suit Co., New York, N. Y. Ladies' and misses' blouses. No. 133,760; Aug. 3; v. 277; p. 175.
National Clutch Company Inc., Greenburg township, Irvington-on-Hudson, New York. Electrical appliances. No. 130,367; Apr. 20; v. 273; p. 622.
National Coal Association, Wilmington, Del., and Washington, D. C. Weekly pamphlet. No. 129,801; Mar. 9; v. 272; p. 366.
National Cocoanut Butter Company, Tacoma, Wash. Cocoanut-butter. No. 132,754; June 29; v. 275; p. 1017.
National Conduit & Cable Company, Inc., Hastings-on-Hudson, N. Y. Bare copper wire and cable, sheet brass and bronze, and brass and bronze rods. No. 133,761; Aug. 3; v. 277; p. 175.
National Council of Traveling Salesmen's Associations, New York, N. Y. Trade publication. No. 133,474; July 27; v. 276; p. 770.
National Creosote Corporation, Oklahoma, Okla. Creosoted building material. No. 130,216; Apr. 13; v. 273; p. 403.
National Dairy Co., Toledo and Pioneer, Ohio, and Ennis and Morenci, Mich. Sterilized milk in containers. No. 128,467; Jan. 6; v. 270; p. 182.
National Dairy Co., Toledo, Ohio. Evaporated milk. No. 130,217; Apr. 13; v. 273; p. 403.
National Electric Supply Company, Washington, D. C. Electric heating apparatus, &c. No. 136,115; Oct. 26; v. 279; p. 722.
National Enameling & Stamping Co., New York, N. Y. Enameled metal ware. No. 129,193; Jan. 27; v. 270; p. 615.
National Enameling & Stamping Co., New York, N. Y. Tinware, galvanized and japanned ware. No. 130,553; Apr. 27; v. 273; p. 804.
National Enameling & Stamping Co., New York, N. Y. Hardware and household articles. No. 136,116; Oct. 26; v. 279; p. 722.
National Equipment Company, Springfield, Mass. Cutlery, machinery, and tools, and parts thereof. No. 133,169; v. 276; p. 403.
National Equipment Company, Springfield, Mass. Machines for making candles. No. 138,074; Dec. 14; v. 281; p. 399.
National Federation of Federal Employees, Washington, D. C. Weekly periodical. No. 137,342; Nov. 23; v. 280; p. 796.
National Fibre and Insulation Company, Yorklyn, Del. Vulcanized fiber in sheets, rods, tubes, &c. No. 132,025; June 8; v. 275; p. 415.
National Fruit Flavor Co., New Orleans, La. Flavoring extracts for food. No. 130,840; May 4; v. 274; p. 188.
National Fruit Products Company, Inc., Alexandria, Va. Apple jam. No. 128,802; Jan. 13; v. 270; p. 341.
National Geographic Society, Washington, D. C. Printed sheets. No. 133,170; July 13; v. 276; p. 403.
National Grave Vault Company, Galion, Ohio. Grave-vaults. No. 130,841; May 4; v. 274; p. 188.
National Hair Goods Co., Chicago, Ill. Hair-nets. No. 136,117; Oct. 26; v. 279; p. 722.
National Harmonicas Company, Elmira, N. Y. Mouth-organs. No. 136,118; Oct. 26; v. 279; p. 722.
National Jack Co., The, Cincinnati, Ohio. Jacks. No. 128,468; Jan. 6; v. 270; p. 182.
National Licorice Company, Brooklyn, N. Y. Licorice confection. No. 134,419; Aug. 31; v. 277; p. 973.
National Licorice Company, New York, N. Y. Licorice confections. No. 136,877; Nov. 9; v. 280; p. 381.
National Malleable Castings Company, The, Cleveland, Ohio. Couplings for railway cars and engines. No. 138,399; Dec. 21; v. 281; p. 571.
National Marine Lamp Company, The, Forestville, Conn., and New York, N. Y. Oil-cans and oilers. No. 136,119; Oct. 26; v. 279; p. 722.
National Mills, Spartanburg, S. C. Hosiery. No. 131,198; May 4; v. 274; p. 199.
National Musical String Company, New Brunswick, N. J. Pitch-pipes. No. 131,806; May 25; v. 274; p. 833.
National Oil Products Co., Harrison, N. J. Oils. No. 137,343; Nov. 23; v. 280; p. 796.
National Paneterie Company, Springfield, Mass. Writing-paper and envelops. No. 135,023; Sept. 21; v. 278; p. 533.
National Pecan Growers Exchange, Albany, Ga. Pecan-nuts. No. 131,357; May 11; v. 274; p. 401.
National Pecan Growers Exchange, Albany, Ga. Pecan-nuts. No. 131,807; May 25; v. 274; p. 833.
National Poultry Co., Los Angeles, Calif. Dressed poultry. No. 130,368; Apr. 20; v. 273; p. 622.
National Pressed Steel Company, Massillon, Ohio. Steel in the form of hot-rolled strips and light plates. No. 136,549; Nov. 2; v. 280; p. 185.
National Rubber Company, The, Elgin, Ill. Carbon-remover. No. 136,550; Nov. 2; v. 280; p. 185.
National Sales Company, The, Memphis, Tenn. Inner liner for tire casing or shoe. No. 138,400; Dec. 21; v. 281; p. 571.
National Sanitary Street System, Inc., Philadelphia, Pa. Trash-receptacles. No. 137,046; Nov. 16; v. 280; p. 584.
National Shirt Shops, Inc., New York, N. Y. Garments for men. No. 130,842; May 4; v. 274; p. 188.
National Spark Plug Company, Rockford, Ill. Spark-plugs. No. 132,212; June 15; v. 275; p. 619.
National Steel & Copper Plate Co., Chicago, Ill. Chemicals employed in the graphic arts. No. 129,802; Mar. 9; v. 272; p. 366.
National Steel & Copper Plate Co., Chicago, Ill. Metals—namely, engravers' plates in blank. No. 130,554; Apr. 27; v. 273; p. 804.
National Sulfern Soap Co., Denver, Colo. Soap in bar, powdered, or paste form. No. 132,026; June 8; v. 275; p. 415.
National Supply Company, The, Toledo, Ohio. Pipe-fittings and hardware. No. 136,551; Nov. 2; v. 280; p. 185.
National Supply Company, The, Toledo, Ohio. Metals and metal products. No. 136,878; Nov. 9; v. 280; p. 381.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

National Supply Company, The, Toledo, Ohio. Machinery, tools, and well-drilling apparatus, and parts thereof. No. 137,344; Nov. 23; v. 280; p. 796.

National Tire & Rubber Company, East Palestine, Ohio. Rubber tires and tubes. No. 129,803; Mar. 9; v. 272; p. 366.

National Tractor Company, Chicago, Ill., assignor to The General Ordnance Company, Derby, Conn. Tractors. No. 138,075; Dec. 14; v. 281; p. 399.

National Trading Company, Chicago, Ill. Combination veils and hair-nets and veils and hair-nets. No. 135,758; Oct. 19; v. 279; p. 530.

National Transit Pump & Machine Company, Oil City, Pa. Steam-driven pumps, oil-engines, air-compressors, pipe-stocks, &c. No. 130,843; May 4; v. 274; p. 188.

National Tube Company, Pittsburgh, Pa. Metal pipe-couplings, pipes, tubes, and casings. No. 131,562; May 18; v. 274; p. 606.

National Tuberculosis Association, New York, N. Y. Pamphlets, circulars, and printed books. No. 137,345; Nov. 23; v. 280; p. 796.

National Twist Drill & Tool Co., Detroit, Mich. Counterboring-tools, saws, &c. No. 128,469; Jan. 6; v. 270; p. 182.

National Watch Company, Inc., New York, N. Y. Watch-movements. No. 132,213; June 15; v. 275; p. 619.

National Water-Proofing Company, Memphis, Tenn. Water-proof clothing or coverings consisting of raincoats, leggings, and puttees. No. 133,764; Aug. 3; v. 277; p. 175.

National X-Ray Reflector Co., Chicago, Ill. Glass reflectors. No. 132,027; June 8; v. 275; p. 415.

Naumkeag Steam Cotton Co., Salem, Mass. Pillow-cases. No. 129,804; Mar. 9; v. 272; p. 366.

Naumkeag Steam Cotton Co., Salem, Mass. Cotton piece goods. No. 129,805; Mar. 9; v. 272; p. 366.

Naumkeag Steam Cotton Co., Salem, Mass. Sheets, pillow and bolster cases. No. 130,369; Apr. 20; v. 273; p. 622.

Naumkeag Steam Cotton Co., Salem, Mass. Sheets and pillow-cases. No. 130,370; Apr. 20; v. 273; p. 622.

Naumkeag Steam Cotton Co., Salem, Mass. Cotton piece goods. No. 130,371; Apr. 20; v. 273; p. 622.

Naumkeag Steam Cotton Co., Salem, Mass. Pillow-cases. No. 131,199; May 4; v. 274; p. 199.

Navy Knitting Mills, Inc., New York, N. Y. Sweaters, bathing-suits, underwear, and hosiery made of knitted material. No. 129,031; Jan. 20; v. 270; p. 474.

Nayberger, Joseph B., McMinnville, Oreg. Hair-tonic. No. 131,563; May 18; v. 274; p. 606.

Neatson Products Company, Philadelphia, Pa. Leather and rubber belt preservatives. No. 136,552; Nov. 2; v. 280; p. 185.

Nebeling, Edmund R., New York, N. Y. Alloyed platinum. No. 130,844; May 4; v. 274; p. 188.

Nebraska Fountain & Supply Co., Omaha, Nebr. Topping for ice-cream sundaes and hot chocolate. No. 130,845; May 4; v. 274; p. 188.

Nebraska & Iowa Mercantile Co., The, Omaha, Nebr. Canned fruits and coffees. No. 136,553; Nov. 2; v. 280; p. 185.

Nebraska & Iowa Mercantile Co., The, Omaha, Nebr. Canned fruits, coffees, and jelly-powders. No. 136,554; Nov. 2; v. 280; p. 185.

Nebraska Material Company, Lincoln, Nebr. Cement stucco. No. 136,879; Nov. 9; v. 280; p. 381.

Neenah Paper Co., Neenah, Wis. Bond-paper for writing, printing, and ledger purposes. No. 132,214; June 15; v. 275; p. 619.

Neff, Ward A., Chicago, Ill. Newspapers. No. 135,290; Sept. 28; v. 278; p. 704.

Neher, Irvin R., Ross, Mich. Chemical tablets for increasing the efficiency of gasolene. No. 134,420; Aug. 31; v. 277; p. 973.

Nehring A., & Sons Company, Chicago, Ill. Varnish, flat wall-paint, floor-paint, and ready-mixed paint. No. 135,498; Oct. 12; v. 279; p. 344.

Nelson-Dashiell Company, The, Baltimore, Md. Confectionery. No. 132,028; June 8; v. 275; p. 415.

Nelson, Olaf A., San Francisco, Calif. Canned fruits and canned tomatoes. No. 132,215; June 15; v. 275; p. 619.

Nelson, Olaf A., San Francisco, Calif. Canned fruits and tomatoes. Nos. 132,462–3; June 22; v. 275; p. 821.

Nelson, William R., deceased, Kansas City, Mo., I. H. Nelson, and L. N. Kirkwood, trustees. Daily newspapers and weekly publications. No. 129,806; Mar. 9; v. 272; p. 366.

Nemser, Joseph, New York, N. Y. Ladies' gowns for outer wear. No. 133,765; Aug. 3; v. 277; p. 175.

Nephtalie Kahn-Lang, Rouen, France. Pictures. Nos. 138,269–70; Dec. 21; v. 281; p. 561.

Neptune Fisheries, Ocean Grove, N. J. Sea foods, such as dried boneless codfish. No. 133,962; Aug. 10; v. 277; p. 387.

Neptune Sea Food Co., San Diego, Calif. Canned sardines. No. 130,372; Apr. 20; v. 273; p. 622.

Neptune Sea Food Co., San Diego, Calif. Canned sardines. No. 135,759; Oct. 19; v. 279; p. 530.

Nestor Johnson Manufacturing Company, Chicago, Ill. Ice-skates. No. 128,470; Jan. 6; v. 270; p. 183.

Nestor Manufacturing Company, Inc., New York, N. Y. Machines and tools. No. 137,838; Dec. 7; v. 281; p. 197.

Nethercott, Charles J., Salt Lake City, Utah. Compound for waterproofing and preserving textile fabrics. No. 129,807; Mar. 9; v. 272; p. 366.

Neuberger, Andrew J., Boston, Mass. House, hat, sink, cuspidor, and dish-cleaning brushes. No. 135,291; Sept. 28; v. 278; p. 704.

Neuman, David, Wilkes-Barre, Pa. Chocolate, cocoa, and powdered milk. No. 130,373; Apr. 20; v. 273; p. 622.

Neuss, Hesslein & Co., New York, N. Y. Woven cotton piece goods. No. 129,808; Mar. 9; v. 272; p. 366.

Neustadter Brothers, San Francisco, Calif. Woven and knitted union-suits for men, women, and children. No. 133,008; July 6; v. 276; p. 203.

Nevada Chemical Company, Philadelphia, Pa. Plant-tonic. No. 131,200; May 4; v. 274; p. 199.

Neville Steering Wheel & Manufacturing Co., Detroit, Mich. Automobile steering-wheels. No. 137,008; Nov. 9; v. 280; p. 388.

New Britain Machine Co., The, New Britain, Conn. Tractors. No. 137,346; Nov. 23; v. 280; p. 796.

New Britain Machine Company, The, New Britain, Conn. Screw and chucking machines. No. 133,171; July 13; v. 276; p. 403.

New Central Canning Co. Inc. New Orleans, La. Tomato paste. No. 130,374; Apr. 20; v. 273; p. 622.

New-Energy Appliance Company, Boston, Mass. Suspensory straps. No. 130,846; May 4; v. 274; p. 188.

New England Enameling Company, Middletown, Conn. Metal ware. No. 131,564; May 18; v. 274; p. 606.

New England Felt Roofing Works, Boston, Mass. Roofing products. No. 130,375; Apr. 20; v. 273; p. 622.

New England Structural Company, Boston, Mass. Structural steel and iron—viz., beams, channels, girders, trusses, &c. No. 132,464; June 22; v. 275; p. 821.

New England Tool Co. Inc., Boston, Mass. Hacksaws and screw-drivers. No. 129,194; Jan. 27; v. 270; p. 615.

New Era Products Company, The, Lancaster, Ohio. Medicine for indigestion, dyspepsia, and constipation. No. 132,755; June 20; v. 275; p. 1017.

New Hampton Mills, New York, N. Y. Textile fabric of a silk and cotton mixture in the piece. No. 134,041; Aug. 10; v. 277; p. 389.

New Haven Knitting Mills, Inc., New Haven, Conn. Hosiery. No. 137,347; Nov. 23; v. 280; p. 796.

New Haven Sherardizing Company, The, Hartford and New Haven, Conn. Zinc alloys. No. 138,196; Dec. 14; v. 281; p. 406.

New Jersey Cutlery Co. Inc., Newark, N. J. Pocket-knives and meat-carving sets. No. 130,376; Apr. 20; v. 273; p. 622.

New Jersey Foundry & Machine Co., Garwood, N. J., and New York, N. Y. Trolleys, cranes, tongs, and portable elevators. No. 130,848; May 4; v. 274; p. 188.

New Jersey Optical Co., Newark, N. J. Non-metallic frames for eyeglasses, spectacles, &c. No. 137,839; Dec. 7; v. 281; p. 197.

New Merlin Cycle Co., Ltd., The, Birmingham, England. Motor-cars. No. 130,218; Apr. 13; v. 273; p. 408.

New Process Cork Company, New York, N. Y. Cork disks and washers for sealing bottles, jars, &c. No. 132,020; June 8; v. 275; p. 415.

New Products Company, Pittsburgh, Pa. Paper and stationery. No. 132,756; June 29; v. 275; p. 1017.

New Products Company, Pittsburgh, Pa. Gummed and ungummed paper and cloth strips or tapes in rolls and tape-moistening machines. No. 134,042; Aug. 10; v. 277; p. 389.

New Toy Co., Inc., New York, N. Y. Dolls. No. 130,015; Mar. 23; v. 272; p. 781.

New Toy Co., Inc., New York, N. Y. Dolls. No. 133,173; July 13; v. 276; p. 403.

New York Band Instr. Co., New York, N. Y. Musical instruments. No. 134,782; Sept. 14; v. 278; p. 388.

New York Belting and Packing Company, New York, N. Y. Rubber belting. No. 133,766; Aug. 3; v. 277; p. 175.

New York Blower Co., The, Laporte, Ind., and Chicago, Ill. Blowers and fans. No. 136,120; Oct. 26; v. 279; p. 722.

New York Boat Oar Co., Inc., New York, N. Y. Oars, sweeps, and sculls. No. 135,024; Sept. 21; v. 278; p. 533.

New York Boys' Shops, Inc., New York, N. Y. Boys' clothing and wearing-apparel. No. 138,292; July 20; v. 276; p. 591.

New York Boys' Shops, Inc., New York, N. Y. Neckties, mufflers, and ear-laps. No. 137,663; Nov. 30; v. 280; p. 999.

New York Chair Company, New York, N. Y. Upholstered dining-room chairs. No. 128,471; Jan. 6; v. 270; p. 183.

New York Consolidated Card Company, The, New York, N. Y. Playing-cards. No. 138,079; Dec. 14; v. 281; p. 400.

New York Industrial Alcohol Company, New York, N. Y. Non-freezing solution for internal-combustion engines. No. 136,556; Nov. 2; v. 280; p. 185.

New York Mackintosh Clothing Company, Mamaroneck, N. Y. Raincoats. Nos. 129,513–4; Feb. 24; v. 271; p. 680.

New York-New England Company, Holyoke, Mass. Paper and stationery. No. 129,809; Mar. 9; v. 272; p. 366.

Digitized by Google

New York Oversea Company, Inc., New York, N. Y. Writing and printing bond-paper, ledger-paper, &c. No. 129,810; Mar. 9; v. 272; p. 366.
New York Oversea Co., New York, N. Y. Writing and printing bond-paper, ledger and writing-paper, and mailing-envelops. No. 132,757; June 29; v. 275; p. 1017.
New York Pacific Commercial Co., Inc., San Francisco, Calif. Canned salmon. No. 130,849; May 4; v. 274; p. 188.
New York Times Company, New York, N. Y. Photographs and reprints thereof. Nos. 133,475–6; July 27; v. 276; p. 770.
Newark Plaster Company, Newark, N. J. Plaster-of-Paris of non-adhesive character for use of dentists and surgeons. No. 134,751; Sept. 14; v. 278; p. 358.
Newell, Carroll D., New York, N. Y. Yarn. No. 134,421; Aug. 31; v. 277; p. 973.
Newell, George R., & Co., Minneapolis, Minn. Molasses, olives, &c. No. 128,803; Jan. 13; v. 270; p. 341.
Newhall Chain Forge & Iron Co., New York, N. Y. Iron and steel chains and chain-slugs. No. 130,847; May 4; v. 274; p. 188.
Newhall, H. M., & Co., San Francisco, Calif. Canned fruits and tomato paste. No. 138,076; Dec. 14; v. 281; p. 899.
Newkirk, John L., & Company, New York, N. Y. Worm-syrup. No. 137,661; Nov. 30; v. 280; p. 999.
Newman, I., & Sons, New Haven, Conn. Corsets. No. 138,197; Dec. 14; v. 281; p. 406.
Newman, Marcus & Torchia, Cincinnati, Ohio. House and street dresses, kimonos, &c. No. 129,512; Feb. 24; v. 271; p. 680.
Newman, Sol, Lynn, Mass. Canvas cover to be used with polishing and buffing wheels. No. 137,465; Nov. 23; v. 280; p. 800.
Newman, William, Alexandria, Va. Shoe-polishing paste. No. 131,201; May 4; v. 274; p. 199.
Newmark, Aaron, Inc., New York, N. Y. Clothing. No. 137,840; Dec. 7; v. 281; p. 197.
Newmark, Fred, New York, N. Y. Ladies' flat underwear. No. 132,216; June 15; v. 275; p. 619.
Newmark, Fred, New York, N. Y. Ladies' flat underwear. No. 132,465; June 22; v. 275; p. 821.
Newport Rolling Mill Co., Newport, Ky. Corrugated and plain metal sheets. No. 138,077; Dec. 14; v. 281; p. 399.
News Syndicate Co., Inc., New York, N. Y. Daily publication. No. 134,043; Aug. 10; v. 277; p. 389.
Newsom Valve Company, St. Louis, Mo. Dust-caps for pneumatic-tire valves. No. 137,662; Nov. 30; v. 280; p. 999.
Newton Broom Co., Newton, Ill. Brooms. No. 133,009; July 6; v. 276; p. 203.
Newton, Frank R., San Antonio, Tex. Taffy candy. No. 136,555; Nov. 2; v. 280; p. 185.
Newton, Robert W., Providence, R. I. Automatic sprinklers. No. 133,172; July 13; v. 276; p. 403.
Niagara Wall Board Company Incorporated, Buffalo, N. Y. Wall and sheathing boards, building-paper. No. 133,477; July 27; v. 276; p. 770.
Nicholas Power Company, Inc., New York, N. Y. Electric-light-projecting equipment for motion-picture machines, &c. No. 128,804; Jan. 13; v. 270; p. 341.
Nicholas Power Company, Inc., New York, N. Y. Arc-lamps and parts. No. 128,805; Jan. 13; v. 270; p. 341.
Nicholas Power Company, Inc. New York, N. Y. Electric motors. No. 130,555; Apr. 27; v. 273; p. 804.
Nichols Copper Co., New York, N. Y. Electrolytic copper. No. 136,121; Oct. 26; v. 279; p. 722.
Nichols Copper Co., New York, N. Y. Electrolytic copper. No. 137,349; Nov. 23; v. 280; p. 797.
Nichols Underwear Corporation, The, Bridgeport, Conn. Straight and bias binding-strips, woven and knitted tapes, and stocking-supporters. No. 131,917; May 25; v. 274; p. 836.
Nichols Underwear Corporation, The, Bridgeport, Conn. Clothing. No. 132,466; June 22; v. 275; p. 821.
Nichols, Wm. S., New York, N. Y. Sardines, fish branded as sardines, and small fish. No. 136,122; Oct. 26; v. 279; p. 722.
Nicholson Construction Co., Kansas City, Mo. Brooms. No. 137,348; Nov. 23; v. 280; p. 796.
Nicholson File Company, Providence, R. I. Files and rasps. No. 135,872; Oct. 19; v. 279; p. 536.
Nicholson, Robert, Dallas, Tex. Agricultural, vegetable, and flower seeds. No. 137,350; Nov. 23; v. 280; p. 797.
Nichthauser & Levy, Brooklyn, N. Y. Washboilers. No. 135,499; Oct. 12; v. 279; p. 344.
Nickel Plate Elevator Co., Cleveland, Ohio. Poultry and stock feed. No. 136,880; Nov. 9; v. 280; p. 381.
Nickels Manufacturing Company, Bristol, Va. Women's, misses', and children's blouses and suits. No. 132,217; June 15; v. 275; p. 619.
Nickey Brothers, Inc., Binghamton, Tenn. Lumber and veneers. No. 130,219; Apr. 13; v. 273; p. 403.
Nightingale Mfg. Co., Chicago, Ill. Phonographs. No. 129,811; Mar. 9; v. 272; p. 366.
Nikolow, George, New York, N. Y. Artificial fuel to be used like coal. No. 138,078; Dec. 14; v. 281; p. 399.
Nineteen Hundred Washer Company, The, Binghamton, N. Y. Clothes-washing machine. No. 133,767; Aug. 3; v. 277; p. 175.
Niolon, A. H., & Son, Meridian, Miss. Coffee and mixture of coffee, chicory, and cereal. No. 136,123; Oct. 26; v. 279; p. 722.
Nishikawa, Sadatsugu, Los Angeles, Calif. Canned tea. No. 132,758; June 29; v. 275; p. 1017.
Nitrate Agencies Company, New York, N. Y. Fertilizer materials. No. 129,037; Jan. 20; v. 270; p. 475.
Nitrate Agencies Company, New York, N. Y. Crude colors for coloring inks. No. 129,812; Mar. 9; v. 272; p. 366.
Nitrate Agencies Company, New York, N. Y. Insecticides. No. 131,565; May 18; v. 274; p. 606.
Nitrogen Electric Company, Newark, N. J. Incandescent electric lamps, and especially nitrogen-filled lamps. No. 131,808; May 25; v. 274; p. 833.
Niven, Maxim, Chicago, Ill. Glass bottles. No. 130,850; May 4; v. 274; p. 188.
Niven, Maxim, Chicago, Ill. Medicinal preparations. No. 138,321; Dec. 21; v. 281; p. 566.
Nixon Hardware Co., Rome, Ga. Axes, shovels, scoops, spades, hammers, vises, &c. No. 136,557; Nov. 2; v. 280; p. 185.
Noble, Charles, Jr., Company, Buffalo, N. Y. Fresh and canned oysters, shrimp, and crabs, and fresh, salted, and canned fish. No. 132,759; June 29; v. 275; p. 1017.
Noble, Charles, Jr., Company, Buffalo, N. Y. Prepared sea foods. No. 133,174; July 13; v. 276; p. 403.
Noble Dairy Farms, Inc., New York, N. Y. Condensed milk. No. 131,202; May 4; v. 274; p. 199.
Noble Heater Company, Fort Wayne, Ind. Automobile exhaust heaters. No. 132,760; June 29; v. 275; p. 1017.
Nocan Soup Company, Hoboken, N. J. Dehydrated and condensed soups. No. 136,558; Nov. 2; v. 280; p. 185.
Nodol Medicine Company, St. Louis, Mo. Germicide. No. 136,559; Nov. 2; v. 280; p. 185.
Nolan, Andy E., Portland, Oreg. Tire-vulcanizing apparatus. No. 136,560; Nov. 2; v. 280; p. 185.
Nolan-Earl Shoe Co., San Francisco, Calif. Men's, women's, and children's leather, fabric, and combination leather and fabric boots and shoes. No. 129,515; Feb. 24; v. 271; p. 680.
No-Leak-O Piston Ring Company, Baltimore, Md. Piston-rings. No. 138,549; Dec. 28; v. 281; p. 786.
Noll, William H., Fort Wayne, Ind. Antiseptic, disinfecting, and deodorizing tablets. No. 129,516; Feb. 24; v. 271; p. 680.
Noma Motor Corporation, New York, N. Y. Automobiles and automobile-bodies. No. 130,377; Apr. 20; v. 273; p. 622.
Nomar Optical Co., Southbridge, Mass. Optical goods. No. 136,124; Oct. 26; v. 279; p. 722.
Nomend Hosiery Mills, M. B. Laubach Co., Inc., Philadelphia, Pa. Hosiery. No. 132,218; June 15; v. 275; p. 619.
Non-Metallic Flux Company, Newark, N. J. Crucible and fire-brick coating compound. No. 132,761; June 29; v. 275; p. 1017.
Nonotuck Silk Company, Northampton, Mass. Yarn of worsted, mohair, wool, silk, or cotton. No. 134,422; Aug. 31; v. 277; p. 973.
Noonan, T., & Sons Company, Boston, Mass. Hair-tonic. No. 128,472; Jan. 6; v. 270; p. 183.
Noonan, T., & Sons Company, Boston, Mass. Complexion-cream. No. 133,478; July 27; v. 276; p. 770.
Nootka Packing Company Limited, Everett, Wash. Fish—viz., pilchards, canned. No. 136,881; Nov. 9; v. 280; p. 381.
No-Ouch Mfg. Co., Sioux Falls, S. D. Corn-remover compounds. No. 128,806; Jan. 13; v. 270; p. 342.
Norcross, C. S., & Sons, Bushnell, Ill. Hand garden implements. No. 128,473; Jan. 6; v. 270; p. 183.
Nordham, Ivan B., Company, New York, N. Y. Bread. No. 131,566; May 18; v. 274; p. 606.
Nordhem, Ivan B., Company, New York, N. Y. Ice-cream. No. 133,293; July 20; v. 276; p. 591.
Nordiska Kullager Aktiebolaget, Gottenborg, Sweden. Bearings, and power transmissions and machinery for conveying materials. No. 136,287; Nov. 2; v. 280; p. 177.
Norfolk Chemical Company, The, Philadelphia, Pa. Colloidal metallic silver medicine. No. 138,492; Dec. 28; v. 281; p. 783.
Norfolk Mattress Co., Inc. Mattresses. No. 137,009; Nov. 9; v. 280; p. 388.
Norma Chocolate Company, Brooklyn, N. Y. Chocolate. No. 134,044; Aug. 10; v. 277; p. 389.
Norma Chocolate Company, Inc., Brooklyn, N. Y. Chocolate. No. 135,500; Oct. 12; v. 279; p. 344.
Norman Bros. & Berliant, Inc., Chicago, Ill. Fruit preserves. No. 130,556; Apr. 27; v. 273; p. 804.
Normandie Company, Norfolk, Va. Non-alcoholic fruit-juices. Nos. 129,032–33; Jan. 20; v. 270; p. 474.
North American Dye Corporation, New Rochelle, N. Y. Dyes. No. 129,999; Mar. 16; v. 272; p. 540.
North American Electric Lamp Company, St. Louis, Mo. Electric lamps. No. 137,351; Nov. 23; v. 280; p. 797.
North American Fisheries & Cold Storage, Ltd., Liverpool, Nova Scotia, Canada. Frozen, smoked, salted, and fresh fish. No. 137,352; Nov. 23; v. 280; p. 797.
North & Judd Manufacturing Company, New Britain, Conn. Buckles. No. 129,304; Feb. 10; v. 271; p. 356.
North and Judd Manufacturing Company, New Britain, Conn. Belt, shoe, and fob buckles, slipper-slides. No. 130,557; Apr. 27; v. 273; p. 804.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Northam Warren Corporation, New York, N. Y. Manicure sets sold as a unit. No. 133,010; July 6; v. 276; p. 203.
Northam Warren Corporation, New York, N. Y. Toilet preparations. No. 134,458; Aug. 31; v. 277; p. 975.
Northam Warren Corporation, New York, N. Y. Cold-cream. No. 134,518; Sept. 7; v. 278; p. 160.
Northam Warren Corporation, New York, N. Y. Face-powders and rouges in compact form. No. 136,882; Nov. 9; v. 280; p. 381.
Northampton Cutlery Company, Northampton, Mass. Table-knives of base metal. No. 135,293; Sept. 28; v. 278; p. 704.
Northern Illinois Cereal Company, Chicago, Ill. Stock feed. No. 136,125; Oct. 26; v. 279; p. 722.
Northern Ohio Butterine Company, The, Ashland, Ohio. Oleomargarin. No. 134,045; Aug. 10; v. 277; p. 389.
Northern Waste Co., Boston, Mass. Cotton-waste. No. 130,094; Apr. 6; v. 273; p. 181.
Northern Woodenware Company, Island Falls, Me. Dishes made from wood. No. 136,126; Oct. 26; v. 279; p. 722.
Northwest Trading Company Ltd., Seattle, Wash. Canned salmon. No. 136,883; Nov. 9; v. 280; p. 381.
Northwestern Brewers Supply Co., Milwaukee, Wis. Malt syrup used in the preparation of non-alcoholic malt beverages. No. 133,768; Aug. 3; v. 277; p. 175.
Northwestern Candy Company, Waterloo, Iowa. Candied nut-bars. No. 133,011; July 6; v. 276; p. 203.
Northwestern Chemical Co., Marietta, Ohio. Paste cement for use in radiators. No. 129,034; Jan. 20; v. 270; p. 474.
Northwestern Chemical Co., Marietta, Ohio. Adhesives. No. 129,035; Jan. 20; v. 270; p. 475.
Northwestern Chemical Co., Marietta, Ohio. Compound for removing deposit from automobile-radiators, fire-extinguishers, &c. No. 129,813; Mar. 9; v. 272; p. 366.
Northwestern Chemical Co., Marietta, Ohio. Compound for removing carbon deposit from cylinders of internal-combustion engines. No. 136,561; Nov. 2; v. 280; p. 185.
Northwestern Consolidated Milling Company, The, Minneapolis, Minn., and New York, N. Y. Wheat-flour. No. 129,036; Jan. 20; v. 270; p. 475.
Northwestern Hide & Fur Co., Minneapolis, Minn. Poison for animals. No. 136,127; Oct. 26; v. 279; p. 722.
Norton Company, Worcester, Mass. Abrasive products. No. 128,474; Jan. 6; v. 270; p. 188.
Norwalk Tire and Rubber Company., Inc., The, Norwalk, Conn. Elastic vehicle-tires. No. 133,769; Aug. 3; v. 277; p. 175.
Norwood Canning and Manufacturing Co., Norwood, La. Canned fruit and vegetables. No. 136,562; Nov. 2; v. 280; p. 185.
Norwood, Frederick A., Delaware, Ohio. Preparations for headache, colds, rheumatism, &c., bay-rum, rouge, &c. No. 134,519; Sept. 7; v. 278; p. 160.
Notaseme Hosiery Company, Philadelphia, Pa. Dolls. No. 134,753; Sept. 14; v. 278; p. 358.
Novagraph Film Corporation, New York, N. Y. Motion-pictures. No. 137,353; Nov. 23; v. 280; p. 797.
Novelty Incandescent Lamp Company, Emporium, Pa. Incandescent electric lamps. No. 135,025; Sept. 21; v. 278; p. 533.
Novelty Incandescent Lamp Company, Emporium, Pa. Incandescent electric lamps. No. 135,760; Oct. 19; v. 279; p. 530.
Novelty Knitting Mills, Milwaukee, Wis. Knitted caps, sweaters, gloves, and mittens. No. 135,026; Sept. 21; v. 278; p. 533.
Novelty Manufacturing Company, Kansas City, Mo. Water-containers for refrigerators. No. 136,563; Nov. 2; v. 280; p. 185.
Novocol Chemical Mfg. Co., Inc., Brooklyn, N. Y. Local anesthetics. No. 134,520; Sept. 7; v. 278; p. 160.
Nowlin, A. S., & Co., Lynchburg, Va. Coal. No. 130,851; May 4; v. 274; p. 188.
Nugo Device Corporation, New York, N. Y. Locking safety device on steering-posts of automobiles. No. 133,479; July 27; v. 276; p. 770.
Nulomoline Company, The, New York, N. Y. Table-syrup. No. 130,378; Apr. 20; v. 273; p. 622.
Nulomoline Company, The, New York, N. Y. Table-syrups. No. 130,852; May 4; v. 274; p. 188.
Nulomoline Company, New York, N. Y., The. Cane-syrup, non-alcoholic maltless beverages. No. 131,809; May 25; v. 274; p. 833.
Nulomoline Company, The, New York, N. Y. Non-alcoholic preparation used as a sweetening for beverages. No. 132,219; June 15; v. 275; p. 619.
Nulomoline Company, The, New York, N. Y. Cereal and sugar syrups for table purposes. No. 134,046; Aug. 10; v. 277; p. 389.
Nulomoline Company, The, New York, N. Y. Cereal and sugar syrups for soda fountain purposes. No. 136,128; Oct. 26; v. 279; p. 722.
Nulyne Laboratories, Jackson, Mich. Medicinal preparations. No. 136,564; Nov. 2; v. 280; p. 185.
Number 13 Chemical Co., Hoboken and Newark, N. J. Insecticide. No. 132,469; June 22; v. 275; p. 821.
Nunnally Company, The, Atlanta, Ga. Candy. No. 135,373; Sept. 28; v. 278; p. 707.
Nu-Ray Polish Manufacturing Co., Provo, Utah. Polish for furniture, &c. No. 132,407; June 22; v. 275; p. 821.
Nusbaum, D., & Co., New York, N. Y. Ladies' knit bathing-suits and one piece union-suits. No. 138,322; Dec. 21; v. 281; p. 566.
Nu-Tex Hosiery Co., Inc., Utica, N. Y. Men's and women's hosiery of wool, cotton, silk, &c. No. 135,292; Sept. 28; v. 278; p. 704.
Nut-Grove Butter Company, Providence, R. I. Oleomargarin. No. 132,468; June 22; v. 275; p. 821.
Nut-Grove Butter Company, Providence, R. I. Oleomargarin. No. 134,047; Aug. 10; v. 277; p. 389.
Nut House, Inc., The, Seattle, Wash. Sugared peanuts. No. 132,762; June 29; v. 275; p. 1018.
Nut House Inc., The, Seattle, Wash. Salted peanuts. No. 135,569; Oct. 12; v. 279; p. 347.
Nuttall, Arthur O., Chicago, Ill. Tea. No. 136,120; Oct. 26; v. 279; p. 722.
Nuway Manufacturing Company, Winston-Salem, N. C. Men's negligée, work, and dress shirts. No. 135,501; Oct. 12; v. 279; p. 344.
Nu-Way Strech Suspender Company, Adrian, Mich. Suspenders and garters. No. 131,203; May 4; v. 274; p. 199.
Oakes Company, The, Indianapolis, Ind. Fans for automobiles. No. 137,354; Nov. 2; v. 280; p. 797.
Oakley Chemical Co., New York, N. Y. Granulated chemical cleaning compounds. No. 134,754; Sept. 14; v. 278; p. 358.
Oakley Chemical Co., New York, N. Y. Soap. No. 135,502; Oct. 12; v. 279; p. 344.
O'Bannon Corporation, New York, N. Y. Waterproof upholstering fabrics. No. 137,010; Nov. 9; v. 280; p. 388.
O'Bannon Corporation, New York, N. Y. Waterproof fabrics. No. 137,918; Dec. 7; v. 281; p. 201.
Oberman, D. M., Manufacturing Company, Jefferson City, Mo. Outer clothing. No. 129,382; Feb. 17; v. 271; p. 509.
Oberman, D. M., Manufacturing Company, Jefferson City, Mo. Work-clothing—namely, overalls, shirts, pants, jumpers. No. 130,558; Apr. 27; v. 273; p. 804.
Oberman, D. M., Manufacturing Company, Jefferson City, Mo. Flannel shirts for outer wear. No. 137,664; Nov. 30; v. 280; p. 999.
O'Brien, Frank B., Chicago, Ill. Cementitious preparation usable in the form of a putty. No. 134,259; Aug. 24; v. 277; p. 778.
Ocean Paint Works, Inc., Brooklyn, N. Y. Dry paste, and ready-mixed paints, marine paints, &c. Nos. 137,665–6; Nov. 30; v. 280; p. 999.
Oceanus Laboratories, Rockaway Beach, N. Y. Antiseptic powder. No. 128,475; Jan. 6; v. 270; p. 183.
Ochs & Frank, Baltimore, Md. Ladies' waists and dresses. No. 130,379; Apr. 20; v. 273; p. 622.
Odell, Mrs. Mary, Peekskill, N. Y. Ointment for external application to sores of blood-poisoning. No. 132,763; June 29; v. 275; p. 1018.
Odelsa Mfg. Co., The, Oklahoma, Okla. Foods. No. 134,260; Aug. 24; v. 277; p. 778.
Oesterreicher, G., & Co., The, New York, N. Y. Broad silks in the piece, charmeuses, taffetas, &c. No. 136,130; Oct. 26; v. 279; p. 722.
Oeters, Albertine, Philadelphia, Pa. Water-paint. No. 137,668; Nov. 30; v. 280; p. 999.
Ogilvie, Jessica, New York, N. Y. Deodorant. No. 129,815; Mar. 9; v. 272; p. 366.
O'Gorman, Wade & Powers Co., Boston, Mass. Dresses. No. 137,355; Nov. 23; v. 280; p. 797.
Ogur, Eugene, Jersey City, N. J. Shampoo and hair-tonic. No. 131,567; May 18; v. 274; p. 606.
Ogus, Rabinovich & Ogus Company, Chicago, Ill. Women's hats. No. 130,380; Apr. 20; v. 273; p. 622.
Ohio Cities Gas Co., The, Columbus, Ohio. Gasolene. No. 135,503; Oct. 12; v. 279; p. 345.
Ohio Grease Company, The, Loudonville, Ohio. Oils and greases. No. 132,764; June 29; v. 275; p. 1018.
Ohio Hotel Operating Company, The, Youngstown, Ohio. Chocolates. No. 132,765; June 29; v. 275; p. 1018.
Ohio Metal Co., The, Columbus, Ohio. Antifriction Babbitt metals. No. 133,294; July 20; v. 276; p. 592.
Ohio Rubber Co., Cincinnati, Ohio. Inner tubes. No. 137,048; Nov. 16; v. 280; p. 584.
Ohio State Rubber Tire Co., The, Port Clinton, Ohio. Pneumatic rubber tires and inner tubes. No. 137,667; Nov. 30; v. 280; p. 999.
Ohio Suspender Company, The, Mansfield, Ohio. Suspenders, garters, and belts. No. 132,030; June 8; v. 275; p. 415.
Ohio Varnish Company, The, Cleveland, Ohio. Paste soap. No. 134,755; Sept. 14; v. 278; p. 358.
Ohio Varnish Company, The, Cleveland, Ohio. Structural-iron paints. No. 138,550; Dec. 28; v. 281; p. 786.
Ole, Oscar E., Munsing, Mich. Printed cards. No. 136,131; Oct. 26; v. 279; p. 722.
Oil Products Company, Cardington, Pa. Paint-oils. No. 137,356; Nov. 23; v. 280; p. 797.
Old Baldy Citrus Association, Upland, Calif. Fresh citrus fruit. Nos. 137,842–4; Dec. 7; v. 281; p. 197.
Oldham New York Saw Works, Inc., Brooklyn, N. Y. All classes of saws for cutting wood or metal. No. 136,132; Oct. 26; v. 279; p. 722.

Digitized by Google

Oldham New York Saw Works, Inc., Brooklyn, N. Y. Circular, band, hand, and crosscut saws. No. 137,357; Nov. 23; v. 280; p. 797.

O'Lee, Simon P., Nicholasville, Ky. Medicinal remedy for piles and fistulas. No. 136,133; Oct. 26; v. 279; p. 722.

Olive Tablet Company, Columbus, Ohio. Olive-oil tablets. No. 128,807; Jan. 13; v. 270; p. 342.

Ollendorff, L., Company, New York, N. Y. Watches, watch-movements, watchcases, and dials. No. 132,220; June 15; v. 275; p. 619.

Olmstead, Albert, Philadelphia, Pa. Oil for use in making cores in foundries. No. 135,294; Sept. 28; v. 278; p. 703.

O'Loane, Kiely & Co., Ltd., Vancouver, British Columbia, Canada. Canned fish. No. 137,841; Dec. 7; v. 281; p. 197.

Olson, Sven H., Colorado Springs, Colo. Hair-tonic for dandruff and falling hair. No. 132,767; June 29; v. 275; p. 1016.

Omaha Flour Mills Co., Omaha, Nebr. Wheat-flour. Nos. 129,038–40; Jan. 20; v. 270; p. 475.

Omaha Flour Mills Co., Omaha, Nebr. Flour. No. 130,220; Apr. 13; v. 273; p. 408.

Omaha Flour Mills Co., Omaha, Nebr. Wheat-flour. Nos. 134,048–9; Aug. 10; v. 277; p. 389.

Omaha Flour Mills Co., Omaha, Nebr. Wheat-flour. No. 134,423; Aug. 31; v. 277; p. 973.

Omar Co., The, Chicago, Ill. Root-beer. No. 136,884; Nov. 9; v. 280; p. 381.

O'Malley-Beare Valve Co., Chicago, Ill. Valves for general use and parts thereof. No. 130,381; Apr. 20; v. 273; p. 623.

Omega Chemical Company, The, New York, N. Y. Remedy for certain named ailments and toilet preparations. No. 132,470; June 22; v. 275; p. 821.

Omega Chemical Company, The, New York, N. Y. Soaps. No. 135,027; Sept. 21; v. 278; p. 533.

Omo Mfg. Co., Middletown, Conn. Gum tissue. No. 128,477; Jan. 6; v. 270; p. 183.

Omo Mfg. Co., Middletown, Conn. Hospital-sheeting. Nos. 128,808–9; Jan. 13; v. 270; p. 342.

Omo Mfg. Co., Middletown, Conn. Gum tissue. No. 128,810; Jan. 13; v. 270; p. 342.

Omo Mfg. Co., Middletown, Conn. Bias seam-tape. Nos. 129,195–6; Jan. 27; v. 270; p. 615.

Omo Mfg. Co., Middletown, Conn. Sanitary belts, aprons, and gum-tissue for surgical purposes. Nos. 130,097–8; Apr. 6; v. 273; p. 181.

Oneida Community, Limited, Oneida, N. Y. Flat-ware plated with precious metal. Nos. 129,816–18; Mar. 9; v. 272; p. 366.

Oneida Community Limited, Oneida, N. Y. Flat-ware plated with precious metal. No. 130,382; Apr. 20; v. 273; p. 623.

Oneida Community Limited, Oneida, N. Y. Plated flat-ware. No. 131,204; May 4; v. 274; p. 199.

Oneida Community, Limited, Oneida, N. Y. Flat-ware plated with precious metal. Nos. 133,012–14; July 6; v. 276; p. 203.

Oneida Community, Limited, Oneida, N. Y. Silver-plated flat-ware and tableware. No. 134,050; Aug. 10; v. 277; p. 390.

Oneida Community Limited, Oneida, N. Y. Silver-plated flat-ware and tableware. No. 138,323; Dec. 21; v. 281; p. 566.

Oneida Corporation, Chicago, Ill. Depilatories. No. 132,471; June 22; v. 275; p. 821.

Oneida Motor Truck Co., Green Bay, Wis. Motor-vehicles. No. 135,504; Oct. 12; v. 279; p. 345.

O'Neill, Peter L., Jersey City, N. J. Boiler-preserver. No. 132,472; June 22; v. 275; p. 821.

On The-Dot Level Device, Chicago, Ill. Levels. No. 136,565; Nov. 2; v. 280; p. 185.

O-Pee-Chee Gum Co., Limited, London, Ontario, Canada. Chewing-gum. No. 132,221; June 15; v. 275; p. 619.

Oppelt, Alvin F., Elma, Wash. Preserved salmon-eggs. No. 128,811; Jan. 13; v. 270; p. 342.

Oppenheim, Oberndorf and Company, Inc., Baltimore, Md. Dress, negligée, and work shirts, collars, cuffs, &c. No. 129,517; Feb. 24; v. 271; p. 680.

Oppenheim, Oberndorf & Co. Inc., Baltimore, Md. Clothing. Nos. 135,761–3; Oct. 19; v. 279; p. 530.

Oppenheimer, Charles, Philadelphia, Pa. Hair-nets. No. 135,184; Sept. 21; v. 278; p. 540.

Optical Products Corporation, New York, N. Y. Celluloid frames, rims, nose-pieces, &c. No. 137,845; Dec. 7; v. 281; p. 197.

Orange City Mineral Spring Company, Orange City, Fla. Mineral water. No. 129,197; Jan. 27; v. 270; p. 615.

Orange Hosiery Mills, Orange, N. J. Hosiery. No. 132,473; June 22; v. 275; p. 821.

Orange Manufacturing Company, Orange, Va. Automobile accessory. No. 134,186; Aug. 17; v. 277; p. 582.

Order of Railroad Telegraphers, The, St. Louis, Mo. Printed books, pamphlets, periodicals, &c. No. 136,566; Nov. 2; v. 280; p. 185.

O'Reilly, William E., London, England. Safety-razors and razor-blades. No. 129,198; Jan. 27; v. 270; p. 615.

Ori-Ori Company, New York, N. Y. Hair dyes and shampoo. No. 134,756; Sept. 14; v. 278; p. 358.

O'Riely, Cornelius J., Los Angeles, Calif. Bicycles. No. 129,041; Jan. 20; v. 270; p. 475.

Oriental Silk Printing Company, New York, N. Y. Silk piece goods. No. 129,819; Mar. 9; v. 272; p. 366.

Orlum Company, The, St. Louis, Mo. Medicated salve. No. 136,567; Nov. 2; v. 280; p. 186.

Orkin, Samuel, Company, Cambridge, Mass. Mechanical toys. No. 130,099; Apr. 6; v. 273; p. 181.

Ormerod, John, & Sons Ltd., Castleton, England. Roller-skins for use in textile machinery. No. 136,885; Nov. 9; v. 280; p. 381.

Ormerod, John, & Sons Ltd., Castleton, England. Roller-skins, picking-bands, &c., for looms and textile machinery. No. 138,324; Dec. 21; v. 281; p. 566.

Ormerod, John & Sons Ltd., Castleton, England. Leather goods for use in looms and textile machinery. No. 138,493; Dec. 28; v. 281; p. 783.

Orotech Manufacturing Co., Wilmington, Del., and Pittsburgh, Pa. Amusement devices employing mirrors for reflecting movement. No. 135,295; Sept. 28; v. 278; p. 704.

Oro-Tone Co., The, Chicago, Ill. Phonographs and sound-boxes and tone-arms for same. No. 131,568; May 18; v. 274; p. 606.

Osborn Paper Company, Marion, Ind. Writing and printing papers and tablets. Nos. 131,810–11; May 25; v. 274; p. 833.

Osborn Paper Company, Marion, Ind. Writing and printing papers and writing-tablets. Nos. 132,768–9; June 29; v. 275; p. 1018.

Osborn Paper Co., Marion, Ind. Writing-tablets, mailing-envelops, papeteries, &c. No. 134,424; Aug. 31; v. 277; p. 973.

Osborne Paper Company, Marion, Ind. Writing and printing papers and writing-tablets. No. 137,669; Nov. 30; v. 280; p. 999.

Osburn, C. S., & Co., Newark, Ohio. Garden, flower, vegetable, &c., seeds. No. 132,474; June 22; v. 275; p. 821.

Osmundson, Chris, Webster City, Iowa. Spades, shovels. No. 130,854; May 4; v. 274; p. 188.

Ostrowsky, H., Co., Chicago, Ill. Boys' overalls, play-suits, waists, &c. No. 132,475; June 22; v. 275; p. 821.

Ostrowsky, H., Co., Chicago, Ill. Clothing. No. 133,770; Aug. 3; v. 277; p. 176.

Ostrowsky, H., Co., Chicago, Ill. Men's, women's, and children's underwear, &c. No. 135,764; v. 279; p. 530.

Otaka Fabric Company, The, Hartford, Conn. Crinkled paper fabrics. No. 136,134; Oct. 26; v. 279; p. 722.

Otis Co., Ware and Three Rivers, Mass. Cotton piece goods. No. 130,855; May 4; v. 274; p. 189.

Otis Manufacturing Co., New Orleans, La. Lumber—viz, Spanish cedar and mahogany. No. 132,770; June 29; v. 275; p. 1018.

Otorino Manufacturing Company, New York, N. Y. Medicine for the diseased mucous membrane of the nose, throat, mouth, and ear. No. 131,358; May 11; v. 274; p. 401.

Ottawa Milling Company, Kansas City, Mo., and Ottawa, Kans. Wheat-flour. No. 129,199; Jan. 27; v. 270; p. 615.

Ottawa Paint Works Limited, Ottawa, Canada. Oil paints, varnishes, paint-oils, &c. No. 136,135; Oct. 26; v. 279; p. 722.

Outerbridge, Theodore, Sunnylands, Bermuda. Lily-bulbs. No. 130,100; Apr. 6; v. 273; p. 181.

Outlook Company, The, Cleveland, Ohio. Wind-shield cleaners of the squeegee type. No. 133,015; July 6; v. 276; p. 203.

Overbagh & Ayres Mfg. Co., Chicago, Ill. Electric-lighting fixtures, shades, and reflectors. No. 136,568; Nov. 2; v. 280; p. 186.

Oversea Export Co. Ltd., The, Christiania, Norway. Sardines. No. 134,051; Aug. 10; v. 277; p. 390.

Oversea Export Co. Ltd., The, Christiania, Norway. Brisling and sild. Nos. 134,052–8; Aug. 10; v. 277; p. 390.

Oversea Export Co., Ltd., The, Christiania, Norway. Brisling and sild, (sardines). Nos. 136,136–9; Oct. 26; v. 279; pp. 722–3.

Oversea Export Co. Ltd., The, Christiania, Norway. Brisling and sild, (generically known as sardines.) No. 136,569; Nov. 2; v. 280; p. 186.

Oversea Export Co., Ltd., The, Christiania, Norway. Brisling and sild. No. 137,846; Dec. 7; v. 281; p. 198.

Oversea Export Co., Ltd., The, Christiania, Norway. Brisling and sild. Nos. 138,080–1; Dec. 14; v. 281; p. 400.

Oversea Products Corporation, New York, N. Y. Canned milk. No. 136,140; Oct. 26; v. 279; p. 723.

Overseas Products Corporation, New York, N. Y. Motor-trucks and automobiles. No. 137,670; Nov. 30; v. 280; p. 999.

Oversmith, Clarence D., Davenport, Iowa. Electric advertising display apparatus. No. 130,856; May 4; v. 274; p. 189.

Owens Bottle Company, Toledo, Ohio. Jars and jugs, all made of glass. No. 130,000; Mar. 16; v. 272; p. 540.

Owens, Eva E., Los Angeles, Calif. Hats for women and children and booties for infants. No. 137,671; Nov. 30; v. 280; p. 999.

Owensboro Products Company, Owensboro, Ky. Stock feed. No. 130,383; Apr. 20; v. 273; p. 623.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Owl Drug Co., The, Decatur, Ala. Liquid compounds for treating certain named diseases and affections. No. 131,812; May 25; v. 274; p. 833.
Owl Drug Company, The, Decatur, Ala. Compounds for treating certain named diseases and affections. No. 132,476; June 22; v. 275; p. 821.
Oxford-print, Boston, Mass. Toys of paper or pasteboard. No. 136,141; Oct. 26; v. 279; p. 723.
Oxman, Harry L., New York, N. Y. Antiseptic and germicide. No. 136,886; Nov. 9; v. 280; p. 381.
Oxweld Acetylene Company, Newark, N. J. Blowpipes, regulators, tips, and nozzles for blowpipes, &c. No. 136,570; Nov. 2; v. 280; p. 186.
Oxweld Acetylene Company, Newark, N. J. Welding-rods. No. 138,825; Dec. 21; v. 281; p. 566.
Ozment, Frank, Talihina, Okla. Medicinal preparations. No. 138,198; Dec. 14; v. 281; p. 406.
Ozmo Oil Refining Co., San Francisco, Calif. Gasolene, benzin, petroleum, &c. Nos. 129,518–19; Feb. 24; v. 271; p. 680.
Ozmo Oil Refining Co., San Francisco, Calif. Petroleum products. No. 136,887; Nov. 9; v. 280; p. 381.
Pabst Brewing Company, Milwaukee, Wis. Beer and malt extracts. No. 136,142; Oct. 26; v. 279; p. 723.
Pace, Bitts, Ironton, Ala. Electrical intensifiers. No. 128,812; Jan. 13; v. 270; p. 342.
Pacific Coast Borax Co., New York, N. Y. Soap and soap chips. No. 135,028; Sept. 21; v. 278; p. 533.
Pacific Coast Biscuit Company, Seattle, Wash. Sodas—namely, soda crackers and biscuits. No. 137,919; Dec. 7; v. 281; p. 201.
Pacific Export Lumber Co., Portland, Oreg. Peanuts. No. 128,813; Jan. 13; v. 270; p. 342.
Pacific Mill and Mine Supply Company, San Francisco, Calif. Beltings, lacings, packings, and hose. No. 133,773; Aug. 3; v. 277; p. 176.
Pacific Mills, Lawrence and Boston, Mass. Cotton piece and cotton dress goods. No. 131,205; May 4; v. 274; p. 199.
Pacific Mills, Lawrence, and Boston, Mass. Cotton piece and cotton dress goods. No. 135,765; Oct. 19; v. 279; p. 530.
Pacific Nitrosoil Company, San Francisco, Calif. Fertilizing culture of nitrogen-fixing bacteria. No. 131,813; May 25; v. 274; p. 833.
Pacific Novelty Company, New York, N. Y. Dolls. No. 130,857; May 4; v. 274; p. 189.
Pacific Sanitary Manufacturing Company, San Francisco, Calif. Plumbers' supplies. No. 135,505; Oct. 12; v. 279; p. 345.
Package Confectionery Company, Boston, Mass. Candy. No. 134,059; Aug. 10; v. 277; p. 390.
Package Confectionery Company, Boston, Mass. Candy. No. 135,374; Sept. 28; v. 278; p. 707.
Package Confectionery Company, Boston, Mass. Candy. Nos. 135,570–1; Oct. 12; v. 279; p. 347.
Packard Motor Car Company, Detroit, Mich. Mixture-heaters for hydrocarbon-motors. No. 135,766; Oct. 19; v. 279; p. 530.
Packer Auto Specialty Co., Chicago, Ill. Wrenches. No. 131,359; May 11; v. 274; p. 401.
Packwood, Lewis S., Los Angeles, Calif. Machinery-patterns. No. 136,571; Nov. 2; v. 280; p. 186.
Page-Connell Coffee Company, St. Joseph, Mo. Coffee, tea, and flavoring extracts. No. 131,360; May 11; v. 274; p. 401.
Page, Handley, Limited, London, England. Flying-machines, balloons, bicycles, &c. No. 131,993; June 8; v. 275; p. 414.
Page, Handley, Limited. Cricklewood, London, England. Hides, skins, and unwrought leather. No. 132,697; June 29; v. 275; p. 1016.
Page, Handley, Limited, London, England. Aeroplane covers and tents. No. 132,956; July 6; v. 276; p. 201.
Page, Handley, Limited, London, England. Machine-guns, bombs, machine-gun ammunition, &c. No. 133,423; July 27; v. 276; p. 769.
Page, Handley, Limited, London, England. Aeroplane packing cases and crates. No. 133,695; Aug. 3; v. 277; p. 173.
Page, J. S., Weatherford, Tex. Medicine used for the treatment of rheumatism. No. 129,520; Feb. 24; v. 271; p. 680.
Page, Leonard G., St. Joseph, Mo. Mixture which comprises chilli peppers, comino, &c. No. 130,858; May 4; v. 274; p. 189.
Page & Shaw, Inc., Cambridge, Mass. Chocolates, bonbons, and other candy. No. 129,521; Feb. 24; v. 271; p. 680.
Page and Shaw, Inc., Cambridge, Mass. Chocolates, bonbons, and candy. No. 129,522; Feb. 24; v. 271; p. 680.
Page & Shaw, Inc., Boston and Cambridge, Mass. Candy. No. 132,771; June 29; v. 275; p. 1018.
Page & Shaw, Inc., Cambridge, Mass. Candy. No. 136,891; Nov. 9; v. 280; p. 382.
Paige, H. Ray, & Company, Inc., New York, N. Y. Cotton yarns. No. 138,082; Dec. 14; v. 281; p. 400.
Paist, F. M., Company, Philadelphia, Pa. Nut-caramels. No. 134,060; Aug. 10; v. 277; p. 390.

Pal Medicine Co., Boston, Mass. Laxative for colds, headaches, la grippe, &c. No. 138,494; Dec. 28; v. 281; p. 788.
Palatine Aniline & Chemical Corporation, Poughkeepsie, N. Y. Dyes. No. 128,478; Jan. 6; v. 270; p. 183.
Palatine Aniline & Chemical Corporation, Poughkeepsie, N. Y. Dyes. No. 137,672; Nov. 30; v. 280; p. 999.
Palatine Aniline & Chemical Corporation, Poughkeepsie, N. Y. Dyes. No. 137,681; Nov. 30; v. 280; p. 1000.
Palmer Candy Co., Sioux City, Iowa. Candy. Nos. 134,061–2; Aug. 10; v. 277; p. 390.
Palmer Candy Co., Sioux City, Iowa. Candy. No. 137,049; Nov. 16; v. 280; p. 584.
Palmer, E. J., Chicago, Ill. Metal-polish. No. 133,774; Aug. 3; v. 277; p. 176.
Palmer, Fred D., New York, N. Y. Neckties and cravats. No. 135,767; Oct. 19; v. 279; p. 530.
Palmer Photoplay Corporation, Los Angeles, Calif. Prints and publications. No. 136,888; Nov. 9; v. 280; p. 381.
Palmer, Solon, New York, N. Y. Toilet and shaving soap. No. 134,757; Sept. 14; v. 278; p. 358.
Palmer Tire Company, The, Topeka, Kans. Tire-repair outfits comprising rubber patches and cement for attaching same. No. 134,758; Sept. 14; v. 278; p. 358.
Palmine Company, Inc., Dobbs Ferry and New York, N. Y. Oleomargarin. No. 134,261; Aug. 24; v. 277; p. 778.
Palmyra Knitting Company, Palmyra, N. J. Women's knit napkins. No. 135,029; Sept. 21; v. 278; p. 533.
Palnut Corporation, Buffalo, N. Y. Nut-locks. No. 130,860; May 4; v. 274; p. 189.
Panafieu Pere et Fils, Paris, France. Hair-coloring for the beard and hair. No. 132,371; June 22; v. 275; p. 818.
Pan American Coffee Co., Detroit, Mich. Coffee. No. 136,572; Nov. 2; v. 280; p. 186.
Pan-American Manufacturing Co., Houston, Tex. Spaghetti, noodles, vermicelli, &c. No. 137,358; Nov. 23; v. 280; p. 797.
Pan-American Rubber Co., The, Milwaukee, Wis. Vehicle-tires of rubber. No. 136,889; Nov. 9; v. 280; p. 381.
Pan-America Supply Company, Inc., New York, N. Y. Malt, hops, pitch. No. 128,479; Jan. 6; v. 270; p. 183.
Pandolfo, Samuel C., St. Cloud, Minn. Tanks, tool-chests, and canteens for automobiles. No. 134,759; Sept. 14; v. 278; p. 359.
Pantasote Leather Company, The, Passaic, N. J. Waterproof fabrics in the piece. Nos. 135,030–1; Sept. 21; v. 278; p. 534.
Panther Rubber Manufacturing Company, Stoughton and Chelsea, Mass. Rubber and rubber-composition heels. No. 132,477; June 22; v. 275; p. 821.
Paper Mills' Company, The, Chicago, Ill. Writing and printing paper and writing-tablets. No. 135,032; Sept. 21; v. 278; p. 534.
Pappalias, Thomas J., East Pittsburgh, Pa. Liniment recommended in the treatment of certain named ailments. No. 129,821; Mar. 9; v. 272; p. 366.
Paquin, George, Detroit, Mich. Scalp and mange remedy. No. 138,495; Dec. 28; v. 281; p. 783.
Para Crude Oil Corp., New York, N. Y. Paint-oil. No. 132,478; June 22; v. 275; p. 821.
Paraffine Companies, Inc., The, San Francisco, Calif. Liquid paints, varnishes, and paint compounds. No. 131,815; May 25; v. 274; p. 833.
Paraffine Companies, Inc., The, San Francisco, Calif. Waterproof roofings and building-papers. No. 132,772; June 29; v. 275; p. 1018.
Paragon Binder Corporation, New York, N. Y., and Newark, N. J. File-perforations commercially designated as punches. No. 136,143; Oct. 26; v. 279; p. 723.
Paragon Button Corporation, New York, N. Y. Pearl buttons. No. 132,031; June 8; v. 275; p. 415.
Paragon Insulating Company, The, Cleveland, Ohio. Materials used to aid in the process of soldering. No. 135,768; Oct. 19; v. 279; p. 530.
Paraloid Works, Inc., Yonkers, N. Y. Hair, clothes, and hat brushes. No. 135,506; Oct. 12; v. 279; p. 345.
Parisian Mfg. Company, Philadelphia, Pa. Hair-wavers. No. 131,206; May 4; v. 274; p. 199.
Paristyle Novelty Co., Inc., New York, N. Y. Hair-nets. No. 131,570; May 18; v. 274; p. 606.
Paristyle Novelty Co., Inc., New York, N. Y. Hair-nets. No. 133,481; July 27; v. 276; p. 770.
Paristyle Novelty Co. Inc., New York, N. Y Hair-nets. No. 135,035; Sept. 21; v. 278; p. 534.
Park, Beatrice, Memphis, Tenn. Shippers' claim-blanks. No. 129,822; Mar. 9; v. 272; p. 366.
Park Chemical Company, Great Falls, Mont. Automobile-body polish and cleaner. No. 133,295; July 20; v. 276; p. 592.
Park, J. Harry, Warren, Pa. Baseball-bats. No. 137,359; Nov. 23; v. 280; p. 797.
Park, James D., Chicago, Ill. Tractors and tractor parts. No. 130,384; Apr. 20; v. 273; p. 623.
Park & Pollard Company, The, Boston, Mass. Mixed food for hogs. No. 132,479; June 22; v. 275; p. 821.
Parke, Davis & Company, Detroit, Mich. Germicide, disinfectant, antiseptic, &c. No. 132,773; June 29; v. 275; p. 1018.
Parker, Bettie, Lackawanna, N. Y. Soap. No. 134,760; Sept. 14; v. 278; p. 359.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Parker, Frederick R., Chicago, Ill. Cold-cream. No. 131,571; May 18; v. 274; p. 607.
Parker, Frederick R., Chicago, Ill. High-potential-electricity-arrester electrodes. No. 133,016; July 6; v. 276; p. 203.
Parker Motor Truck Company, Milwaukee, Wis. Motor-trucks. No. 136,144; Oct. 26; v. 279; p. 723.
Parkhill Manufacturing Co., Fitchburg, Mass. Ginghams and cotton goods in the piece. No. 135,296; Sept. 28; v. 278; p. 704.
Parkhill Mfg. Co., Fitchburg, Mass. Ginghams in the piece and cotton piece goods. No. 133,482; July 27; v. 276; p. 770.
Parkhill Mfg. Co., Fitchburg, Mass. Ginghams and cotton piece goods. No. 135,034; Sept. 21; v. 278; p. 534.
Parkhill Mfg. Co., Fitchburg, Mass. Cotton piece goods. No. 138,199; Dec. 14; v. 281; p. 406.
Parks & Parks, Inc., Troy, N. Y. Phonograph-record brushes. No. 133,480; July 27; v. 276; p. 770.
Parmenter, Frank D., Toronto, Ontario, Canada. Metal connections. No. 129,042; Jan. 20; v. 270; p. 475.
Parmoline Co., Richmond, Va. Hair-tonic. No. 128,814; Jan. 13; v. 270; p. 342.
Par Po Mfg. Co., Detroit, Mich. Parcel-post packages. No. 135,033; Sept. 21; v. 278; p. 534.
Parsons Chemical Works, Grand Ledge, Mich. Medicated food for live stock. No. 130,861; May 4; v. 274; p. 189.
Parsons, T. I. C., Ripley, W. Va. Headache, neuralgia, neuritis, rheumatism, &c., medicines. No. 135,769; Oct. 19; v. 279; p. 530.
Parsons & Whittemore, Incorporated, New York, N. Y. Writing, printing, blotting, and wrapping paper. No. 129,043; Jan. 20; v. 270; p. 475.
Parsons & Whittemore Inc., New York, N. Y. Writing, printing, blotting, and wrapping papers. No. 135,036; Sept. 21; v. 278; p. 534.
Partin, Robert N., Petersburg, Va. Liquid preparation for use in the treatment of colds, grippe, &c. No. 129,523; Feb. 24; v. 271; p. 680.
Partola Distributing Company, New York, N. Y. Medicinal nerve-tonic. No. 129,823; Mar. 9; v. 272; p. 366.
Partola Distributing Company, New York, N. Y. Face-creams. No. 132,774; June 29; v. 275; p. 1018.
Partola Distributing Company, New York, N. Y. Laxative medicine in candy form. No. 132,775; June 29; v. 275; p. 1018.
Parzinger, Meinrad M., Linden Heights, Ohio. Medicinal salve. No. 131,816; May 25; v. 274; p. 833.
Parzon Pharmacal Company, Dayton, Ohio. General system-tonic and blood-medicine. No. 132,480; June 22; v. 275; p. 821.
Pascal Paint Laboratories Co., The, Cleveland, Ohio. Paints and painters' materials. No. 136,892; Nov. 9; v. 280; p. 382.
Pascall, James, Ltd., London, England. Boiled sugar-drops, bonbons, &c. No. 130,221; Apr. 13; v. 273; p. 403.
Paskie, D. R., & Co., New York, N. Y. Coat-collars. No. 133,775; Aug. 3; v. 277; p. 176.
Patch, E. L., Co., The, Stoneham, Mass. Rubefacient and anodyne cream. No. 135,297; Sept. 28; v. 278; p. 704.
Patch, E. L., Co., The, Stoneham, Mass. Ginger-tea tablets. No. 136,145; Oct. 26; v. 279; p. 723.
Patent Cereals Co., Geneva and New York, N. Y. Cereal breakfast food. No. 128,815; Jan. 13; v. 270; p. 342.
Patent Cereals Company, Geneva and New York, N. Y. Cereal breakfast food. No. 129,044; Jan. 20; v. 270; p. 475.
Patent Cereals Company, The, Geneva and New York, N. Y. Corn-flour. No. 134,262; Aug. 24; v. 277; p. 778.
Patent Cereals Co., The, Geneva and New York, N. Y. Foods. No. 136,890; Nov. 9; v. 280; p. 382.
Paterson Brewing and Malting Company, Paterson, N. J. Hosiery. No. 137,673; Nov. 30; v. 280; p. 999.
Paterson, John T. H., Chicago, Ill. Closures or mouth-pieces for tobacco bags or pouches. No. 136,146; Oct. 26; v. 279; p. 723.
Pathe Freres Phonograph Company., Wilmington, Del., and Brooklyn, N. Y. Disks for talking-machines. No. 131,817; May 25; v. 274; p. 833.
Patrician Hat Corporation, New York, N. Y. Trimmed hats for children, misses, and women. No. 136,147; Oct. 26; v. 279; p. 723.
Patrick, F. A., & Co., Duluth, Minn. Steam-boilers. No. 134,425; Aug. 31; v. 277; p. 973.
Patrick, F. A., & Co., Duluth, Minn. Fabric and leather gloves. No. 136,148; Oct. 26; v. 279; p. 723.
Patrick, F. A., & Co., Duluth, Minn. Hosiery. No. 136,149; Oct. 26; v. 279; p. 723.
Patrick, F. A., & Co., Duluth, Minn. Clothes-pressing iron, electric heated. No. 136,150; Oct. 26; v. 279; p. 723.
Patrick, F. A., & Co., Duluth, Minn. Tailors' garment-pressing machines. No. 136,573; Nov. 2; v. 280; p. 186;
Patrick, F. A., & Co., Duluth, Minn. Blouses, dress and shirt waists, kimonos, sweaters, and shawls. No. 137,360; Nov. 23; v. 280; p. 797.
Patrick, F. E., Young Co., Richmond, Va. Hams, bacon, and lard. No. 134,063; Aug. 10; v. 277; p. 390.
Patrick-Young Company, Richmond, Va. Lard, ham, and bacon. No. 136,574; Nov. 2; v. 280; p. 186.
Patterson, M. F., Dental Supply Company, Chicago, Ill., and St. Paul, Minn. Alloy for metal for dental inlays and bridgework. No. 130,095; Apr. 6; v. 273; p. 181.
Patterson-Sargent Company, The, Cleveland, Ohio. Dry and ready-mixed paints, driers, wood-stains, &c. Nos. 133,296–7; July 20; v. 276; p. 592.
Patterson-Sargent Company, The, Cleveland, Ohio. Paints and painters' materials. Nos. 133,483–4; July 27; v. 276; p. 771.
Patterson-Sargent Company, The, Cleveland, Ohio. Paints and painters' materials. No. 137,361; Nov. 23; v. 280; p. 797.
Pattison & Co., Ltd., New Orleans, La. Soap. No. 135,507; Oct. 12; v. 279; p. 345.
Patton-Jones, Montgomery, Tex. Salve for certain named ailments. No. 132,776; June 29; v. 275; p. 1018.
Pauley, Roy, Schenectady, N. Y. Candy. No. 132,777; June 29; v. 275; p. 1018.
Pavania Oil Company, Warren, Pa. Gasolene, naphtha, &c. No. 128,480; Jan. 6; v. 270; p. 183.
Pawcatuck Woolen Mills, Westerly, R. I. Woolen piece goods. No. 133,485; July 27; v. 276; p. 771.
Paxton & Gallagher Co., Omaha, Nebr. Canned fish. No. 134,263; Aug. 24; v. 277; p. 778.
Payne, John W., Golden City, Mo. Strop-dressing for sharpening razors. No. 138,083; Dec. 14; v. 281; p. 400.
Peake, W. O., Ltd., London, England. Weatherproof coats. No. 133,298; July 20; v. 276; p. 592.
Pearl City Fruit Co. Ltd., Honolulu, Hawaii. Pineapple jelly. No. 130,559; Apr. 27; v. 273; p. 804.
Pearl City Fruit Co. Ltd., Honolulu, Hawaii. Pineapple-extract syrup. No. 131,572; May 18; v. 274; p. 607.
Pearl Knitting Co. Inc., New York, N. Y. Clothing. No. 137,674; Nov. 30; v. 280; p. 999.
Pearls Company, New York, N. Y. Cakes fried in deep fat. No. 136,575; Nov. 2; v. 280; p. 186.
Pearsall, B. S., Co., Elgin, Ill. Oleomargin. No. 135,770; Oct. 19; v. 279; p. 531.
Pearsall & Company, New York, N. Y. Piece goods composed of woolens, worsted, wool, and cotton, &c. No. 133,486; July 27; v. 276; p. 771.
Pearson Products Corporation, New York, N. Y. Tobacco-pouches. No. 135,037; Sept. 21; v. 278; p. 534.
Peck, A. E., Manufacturing Company, Minneapolis, Minn. Tooth-paste and tooth-powder. No. 135,038; Sept. 21; v. 278; p. 534.
Peck & Pratt, Inc., Hilton, N. Y. Canned fruits and vegetables. No. 129,824; Mar. 9; v. 272; p. 366.
Peck, Samuel W., & Co., Brooklyn, N. Y. Knitted and flat underwear for men. No. 128,816; Jan. 13; v. 270; p. 342.
Peck, Samuel W., & Co., New York, N. Y. Young men's three-piece suits. No. 135,039; Sept. 21; v. 278; p. 534.
Peerless Mineral Products Co., Inc., New York, N. Y. Soap. No. 131,207; May 4; v. 274; p. 199.
Peerless Motor Car Company, The, Cleveland, Ohio. Automobiles and motor-trucks. No. 130,862; May 4; v. 274; p. 189.
Peerless Musical Instruments Mfg. Co., Meriden, Conn. Mouth-harmonicas. No. 129,045; Jan. 20; v. 270; p. 475.
Peet Bros. Manufacturing Company, Kansas City, Kans. Soap. No. 131,208; May 4; v. 274; p. 199.
Pelgram & Meyer, New York, N. Y. Ribbons. No. 134,521; Sept. 7; v. 278; p. 160.
Pemetine Company Inc., The, New York, N. Y. Preparation for the treatment of the teeth. No. 134,522; Sept. 7; v. 278; p. 160.
Pencraft Company, The, Chicago, Ill. Fountain-pens. No. 138,084; Dec. 14; v. 281; p. 400.
Pendas, Jose M., New York, N. Y. Skin-lotion. No. 136,893; Nov. 9; v. 280; p. 382.
Pendleton Creamery Co., Pendleton, Ind. Butter. No. 135,873; Oct. 19; v. 279; p. 536.
Pendleton, Homer R., Tulsa, Okla. Adhesive compound for mending automobile-radiators, gasolene-tanks, &c. No. 134,264; Aug. 24; v. 277; p. 778.
Penick & Ford, Ltd. Inc., New Orleans, La. Table-syrup. No. 137,362; Nov. 23; v. 280; p. 797.
Penick & Ford, Ltd. Inc., New Orleans, La. Corn table-syrup. No. 137,363; Nov. 23; v. 280; p. 797.
Peninsular Chemical Company, Detroit, Mich. Tonics. No. 136,576; Nov. 2; v. 280; p. 186.
Penn Bros. Suspender Company, Madison, N. C. Garters. No. 132,778; June 29; v. 275; p. 1018.
Penn Chemical Works, The, Philadelphia, Pa. Lye and chlorinated lime. No. 136,577; Nov. 2; v. 280; p. 186.
Penn Garment Company, Inc., Williamsport, Pa. Work and dress shirts and shirt-waists. No. 137,675; Nov. 30; v. 280; p. 999.
Penn Grains and Feed Company, Philadelphia, Pa. Dairy rations. No. 134,863; Sept. 14; v. 278; p. 863.
Penn Mfg. Co., Kansas City, Mo. Spark-plugs. No. 135,298; Sept. 28; v. 278; p. 704.
Penn Rivet Corporation, Philadelphia, Pa. Snap-fasteners. No. 132,032; June 8; v. 275; p. 415.
Penn Rivet Corporation, Philadelphia, Pa. Pearl buttons. No. 132 222; June 15; v. 275; p. 619.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Penn Rivet Corporation, Philadelphia, Pa. Shoe-laces. No. 132,223; June 15; v. 275; p. 619.
Penn Rivet Corporation, Philadelphia, Pa. Garters. No. 132,224; June 15; v. 275; p. 619.
Penn Rivet Corporation, Philadelphia, Pa. Powder-puffs. No. 133,017; July 6; v. 276; p. 203.
Pennsylvania Chocolate Company, Pittsburgh, Pa. Chocolate and candy. No. 135,185; Sept. 21; v. 278; p. 540.
Pennsylvania Chocolate Company, Pittsburgh, Pa. Chocolate candy. No. 135,186; Sept. 21; v. 278; p. 540.
Pennsylvania Knitting Mills, The, Philadelphia, Pa. Knitted sweaters. No. 137,676; Nov. 30; v. 280; p. 999.
Pennsylvania Lawn Mower Works. (See Braun, John & Sons, assignors.)
Pennsylvania Linseed Products Company, Pittsburgh, Pa. Synthetic turpentine substitute. No. 129,383; Feb. 17; v. 271; p. 509.
Pensiar Company, The, Detroit, Mich. Dentifrice. No. 133,777; Aug. 3; v. 277; p. 176.
Penton Publishing Company, The, Cleveland, Ohio. Daily business newspaper. No. 136,894; Nov. 9; v. 280; p. 382.
Penton Publishing Company, The, Cleveland, Ohio. Weekly publication. No. 136,895; Nov. 9; v. 280; p. 882.
Penton Publishing Company, The, Cleveland, Ohio. Monthly publication. No. 136,896; Nov. 9; v. 280; p. 382.
Penton Publishing Company, The, Cleveland, Ohio. Monthly publication. No. 137,050; Nov. 16; v. 280; p. 584.
Penton Publishing Company, The, Cleveland, Ohio. Semi-monthly technical periodical. No. 138,085; Dec. 14; v. 281; p. 400.
People's Outfitting Company, Detroit, Mich. Player-pianos. No. 136,578; Nov. 2; v. 280; p. 186.
Peoples System of Bakeries, assignor to Peoples System of Bakeries Inc., Chicago, Ill. Baking plant sold as a unit. No. 134,523; Sept. 7; v. 278; p. 160.
Peoples System of Bakeries, Inc., Chicago, Ill. Baking plant sold as a unit. No. 136,897; Nov. 9; v. 280; p. 382.
Pep Spark Plug Company, Minneapolis, Minn. Spark-plugs. No. 133,778; Aug. 3; v. 277; p. 176.
Peppas, Vasili, Braddock, Pa. Salve for wounds, sores, &c. No. 131,573; May 18; v. 274; p. 607.
Pepperell Manufacturing Company, Boston, Mass. Cotton piece goods. No. 132,225; June 15; v. 275; p. 619.
Peppers, Thomas H., Los Angeles, Calif. Fresh citrus and deciduous fruits. No. 128,817; Jan. 13; v. 270; p. 342.
Pepsotone Company, Huntington, W. Va. Medicated oil for certain named affections and diseases. No. 131,574; May 18; v. 274; p. 607.
Perez, Henry L., New York, N. Y. Concentrated and powdered inks, ink-sticks, and ink for writing purposes. No. 135,040; Sept. 21; v. 278; p. 534.
Perfect, Mary, San Diego, Calif. Slippers for babies. No. 137,847; Dec. 7; v. 281; p. 198.
Perfection Biscuit Company, Fort Wayne, Ind. Cake. No. 135,771; Oct. 19; v. 279; p. 531.
Perfection Mattress & Spring Company, Birmingham, Ala. Mattresses. No. 133,487; July 27; v. 276; p. 771.
Perfection Storage Battery Co., Chicago, Ill. Electric storage batteries. No. 135,299; Sept. 28; v. 278; p. 704.
Perfection Storage Battery Co., Chicago, Ill. Unitary electric-light plants. Nos. 135,300–1; Sept. 28; v. 278; p. 704.
Perfection Talking Machine Company, Inc., Brooklyn, N. Y. Cabinets for sound-reproducing machines. No. 130,023; Mar. 30; v. 272; p. 911.
Perfecto Manufacturers, Inc., New York, N. Y. Cigars. Nos. 133,299–300; July 20; v. 276; p. 592.
Perfecto Manufacturers, Inc., New York, N. Y. Cigars. No. 135,772; Oct. 19; v. 279; p. 531.
Perfecto Manufacturers, Inc., New York, N. Y. Cigars. No. 137,364; Nov. 23; v. 280; p. 797.
Perfek'tone Corporation, The, Philadelphia, Pa. Talking-machines. No. 131,818; May 25; v. 274; p. 833.
Perkins Dry Goods Company, Dallas, Tex. Work-clothing for men and boys. No. 131,209; May 4; v. 274; p. 199.
Perkins, Georgia W., Warren, Mass. Automobile, furniture, and piano cleanser, dressing, and polish. No. 137,365; Nov. 23; v. 280; p. 797.
Perkins Glue Company, Lansdale, Pa. Starch-glue material. No. 129,200; Jan. 27; v. 270; p. 615.
Perkins, Jonathan, San Diego, Calif. Germicide and insecticide. No. 128,481; Jan. 6; v. 270; p. 183.
Perkins & McNeely, Philadelphia, Pa. Patent-leather. No. 132,779; June 29; v. 275; p. 1018.
Perkins & McNeely, Philadelphia, Pa. Side-leather. No. 134,411; Aug. 31; v. 277; p. 973.
Periberg & Halpin, New York, N. Y. Mandolins, banjos, &c. No. 129,046; Jan. 20; v. 270; p. 475.
Perma-Loc Manufacturing Co., Wilkes-Barre, Pa. Liquid radiator-cement. No. 129,825; Mar. 9; v. 272; p. 366.
Perry, Adelaide R., Buffalo, N. Y. Remedy for neuralgia and headache. No. 129,047; Jan. 20; v. 270; p. 475.
Perry & Company Limited, Birmingham, England. Pens for writing or drawing. No. 129,826; Mar. 9; v. 272; p. 366.
Pershing, Eli R., Washington, D. C. Candles. No. 135,041; Sept. 21; v. 278; p. 534.
Persons Electric Co., Quincy, Ill. Electric motors. No. 138,326; Dec. 21; v. 281; p. 566.
Peska, Rudolph J., Chicago, Ill. Washing preparation. No. 134,064; Aug. 10; v. 277; p. 390.
Peter, William, Brewing Co., The, Union, N. J. Non-alcoholic malt beverage. No. 136,898; Nov. 9; v. 280; p. 382.
Peters, Arnold B., San Francisco, Calif. Tooth-powder. No. 131,575; May 18; v. 274; p. 607.
Peters Manufacturing Co., Boston, Mass. Shoe fabrics. No. 130,863; May 4; v. 274; p. 189.
Petersen, Victor A., Santa Barbara, Calif. Plastic composition for surfacing kitchen drainboards, bathtubs, &c. No. 136,151; Oct. 26; v. 279; p. 723.
Petersen's, J. H. C., Sons Company, Davenport, Iowa. Dresses and dress-aprons. No. 128,482; Jan. 6; v. 270; p. 183.
Peterson, August V., Portland, Oreg. Hardtack. No. 133,488; July 27; v. 276; p. 771.
Peterson-Franzen & Company, Chicago, Ill. Insoles for boots, shoes, and other footwear. No. 129,524; Feb. 24; v. 271; p. 680.
Peterson, H. S., & Co., Chicago, Ill. Hair-shampoo. No. 136,579; Nov. 2; v. 280; p. 186.
Peterson, Willie, Newark, N. J. Medicine used in the treatment of blood. No. 138,327; Dec. 21; v. 281; p. 566.
Petri and Jones Company, Incorporated, Boston, Mass. Machinery and appliances used in the manufacture of foods, &c. No. 134,187; Aug. 17; v. 277; p. 582.
Petroleum Engine & Manufacturing Co., Incorporated, New York, N. Y. Stationary, marine, truck, and tractor engines, pumps, &c. No. 136,899; Nov. 9; v. 280; p. 382.
Petroleum Oil Company, Anderson, S. C. Motor and lubricating oils and greases and compounds. No. 138,328; Dec. 21; v. 281; p. 566.
Petroleum Products Company, San Francisco, Calif. Petroleum products, &c. No. 128,483; Jan. 6; v. 270; p. 183.
Petroleum Products Co., San Francisco, Calif. Gasolene, benzin, distillate, &c. No. 131,819; May 25; v. 274; p. 833.
Petroleum Products Co., San Francisco, Cal. Kerosene. No. 134,761; Sept. 14; v. 278; p. 359.
Pettijohn Pure Products Co., Minneapolis, Minn. Wheat pancake-flour, parched bran, Indian mixture, &c. No. 131,576; May 18; v. 274; p. 607.
Pewelco Sales Co., Seattle, Wash. Electric water-heaters. No. 130,385; Apr. 20; v. 273; p. 623.
Pfeffer, Genevieve, San Jose, Calif. Dolls. No. 133,018; July 6; v. 276; p. 203.
Pfrenger, J., Sons, Brooklyn, N. Y. Gymnasium-bloomers. No. 130,386; Apr. 20; v. 273; p. 623.
Phenix Cheese Company, New York, N. Y. Cheese. No. 136,580; Nov. 2; v. 280; p. 186.
Philadelphia Drying Machinery Company, The, Philadelphia, Pa. Drying machinery for the manufacture of clay and ceramic products. No. 131,361; May 11; v. 274; p. 401.
Philadelphia Gas Range Co., Philadelphia, Pa. Refrigerators. No. 130,001; Mar. 16; v. 272; p. 540.
Philadelphia Malt Extract Company, Philadelphia, Pa. Bakers' and confectioners' syrup. No. 131,210; May 4; v. 274; p. 199.
Philadelphia Pile Fabric Mills, Philadelphia, Pa. Plush piece goods. No. 132,226; June 15; v. 275; p. 619.
Philadelphia Quartz Company, Philadelphia, Pa. Sodium silicate. No. 129,525; Feb. 24; v. 271; p. 680.
Philadelphia Quartz Company, Philadelphia, Pa. Sodium silicate. Nos. 138,496–7; Dec. 28; v. 281; p. 783.
Philadelphia Roll & Machine Company, Philadelphia, Pa. Castings, forgings, and rolled products of iron and steel. No. 130,864; May 4; v. 274; p. 189.
Philadelphia Roll & Machine Company, Philadelphia, Pa. Alloy rolls for rolling-mills, &c. No. 130,865; May 4; v. 274; p. 189.
Philadelphia Storage Battery Co., Philadelphia, Pa. Batteries, battery-plates, &c. No. 129,827; Mar. 9; v. 272; p. 366.
Philip Carey Manufacturing Company, Lockland, Ohio. Roofing and metal paints. No. 132,481; June 22; v. 275; p. 821.
Philip Carey Manufacturing Company, The, Lockland, Ohio. Roofing, heat and cold insulating materials, &c. No. 134,525; Sept. 7; v. 278; p. 160.
Philips-Brinton Company, Kennett Square, Pa. Ignition systems for internal-combustion engines and condensers. No. 136,152; Oct. 26; v. 279; p. 723.
Phillips-Doscher Corporation, New York, N. Y. Sweaters. No. 130,387; Apr. 20; v. 273; p. 623.
Phillips-Doscher Corporation, New York, N. Y. Knitted undershirts and union-suits for women. No. 131,211; May 4; v. 274; p. 199.
Phillips-Jones Company Inc., New York, N. Y. Outer shirts, pajamas, underwear, &c., for men. No. 138,329; Dec. 21; v. 281; p. 566.
Phillips, Joseph J., Brooklyn, N. Y. Tooth-paste. No. 132,780; June 29; v. 275; p. 1018.
Phillips, Phil D., Spencer, W. Va. Tonic preparation for treatment of certain named diseases and affections. No. 132,482; June 22; v. 275; p. 821.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Phillips, Richard H., New York, N. Y. Non-alcoholic beverages. No. 136,581; Nov. 2; v. 280; p. 186.
Philo Derma Company, Chicago, Ill. Cosmetics. No. 131,577; May 18; v. 274; p. 607.
Phinizee, Emma J., New York, N. Y. Hair-tonics. No. 132,486; June 22; v. 275; p. 821.
Phoenix Glass Company, Pittsburgh, Pa. Glass lighting-fixtures. No. 130,222; Apr. 13; v. 273; p. 408.
Phoenix-Hermetic Co., Chicago, Ill. Metal caps for jars or bottles. No. 128,818; Jan. 13; v. 270; p. 342.
Phoenix-Hermetic Company, Chicago, Ill. Glass jars. No. 130,223; Apr. 13; v. 273; p. 408.
Phoenix Horse Shoe Co., Chicago, Ill. Metal horse and mule shoes. No. 130,102; Apr. 6; v. 273; p. 181.
Phoenix Light Company, Milwaukee, Wis. Electric-light-fixture parts. No. 134,762; Sept. 14; v. 278; p. 359.
Phorylles & Sperber, New York, N. Y. Children's frocks and rompers. No. 136,153; Oct. 26; v. 279; p. 723.
Phosphor Bronze Smelting Company, Philadelphia, Pa. Alloys of copper, tin, zinc, and phosphor-bronze. Nos. 132,484–5; June 22; v. 275; p. 821.
Phosphor Bronze Smelting Company, The, Philadelphia, Pa. Alloys of copper, tin, zinc, and phosphor-bronze in ingots, castings, and finished forms. No. 133,175; July 13; v. 276; p. 403.
Photoplay Publishing Co., Chicago, Ill. Magazine-section. No. 129,828; Mar. 9; v. 272; p. 367.
Photoplay Publishing Company, Chicago, Ill. Magazine-section. No. 134,526; Sept. 7; v. 278; p. 160.
Pi-no-menth Chemical Company, Hot Springs, Ark. Preparation for treatment of pneumonia, croup, colds, &c. No. 129,526; Feb. 24; v. 271; p. 680.
Pianissimo Player Action Co., Camden, N. J., and Philadelphia, Pa. Phonograph-cabinets. No. 130,096; Apr. 6; v. 273; p. 181.
Piano Motors Corporation, Camden, N. J. Electrically-operated vacuum-creating apparatus for piano-players. No. 133,779; Aug. 3; v. 277; p. 176.
Piano Motors Corporation, Camden, N. J. Electrically-operated vacuum-creating apparatus for player-pianos. No. 136,582; Nov. 2; v. 280; p. 186.
Pianostyle Music Co., Inc., Brooklyn, N. Y. Music-rolls for self-playing instruments. Nos. 129,829–30; Mar. 9; v. 272; p. 367.
Pick, Albert, & Company, Chicago, Ill. Glass tumblers. No. 135,883; Oct. 26; v. 279; p. 715.
Pick, Albert, & Company, Chicago, Ill. Drinking-straws. No. 136,900; Nov. 9; v. 280; p. 382.
Pidgeon, William, Beloit, Ohio. Hoof-dressing, &c. No. 129,048; Jan. 20; v. 270; p. 475.
Piedmont Shirt Co., New York, N. Y. Dress, negligée, and work shirts. No. 130,388; Apr. 20; v. 273; p. 623.
Piedmont Motor Car Company, Inc., Lynchburg, Va. Passenger-automobiles and motor-trucks. No. 131,212; May 4; v. 274; p. 199.
Piel Bros. Inc., Brooklyn, N. Y. Non-alcoholic beverage. Nos. 137,366–7; Nov. 23; v. 280; p. 797.
Pierce-Arrow Motor Car Company, Buffalo, N. Y. Monthly magazine. No. 134,065; Aug. 10; v. 277; p. 390.
Pierce-Arrow Motor Car Company, The, Buffalo, N. Y. Monthly magazine. No. 134,763; Sept. 14; v. 278; p. 359.
Pierce, Eugene G., Chicago, Ill. Popcorn, shelled and unpopped. No. 132,781; June 29; v. 275; p. 1018.
Pierce, F. O., Company, New York, N. Y. Glazing compound. No. 137,368; Nov. 23; v. 280; p. 797.
Pierce Fuse Corporation, Buffalo, N. Y. Renewable fuses. No. 136,901; Nov. 9; v. 280; p. 382.
Pierce, Percy, Philadelphia, Pa. Toy aeroplanes. No. 133,019; July 6; v. 276; p. 203.
Pierce, S. S., Co., Boston, Mass. Lime-juice and grape-juice. No. 131,820; May 25; v. 274; p. 833.
Pierce Textile Corporation, New York, N. Y. Knitted, netted and textile fabrics, &c. No. 129,831; Mar. 9; v. 272; p. 367.
Pierce, W. Irving, Fall River, Mass. Paints and painters' materials. No. 131,918; May 25; v. 274; p. 836.
Pierre, Joseph M., Fort Wayne, Ind. Preparation for the treatment of asthma, bronchitis, burns, &c. No. 131,362; May 11; v. 274; p. 401.
Pierson Company, The, Rockford, Ill. Combined wringer and washboard. No. 138,087; Dec. 14; v. 281; p. 400.
Pierson, J. T., Topeka, Kans. Furniture and automobile polish. No. 129,384; Feb. 17; v. 271; p. 509.
Pietzuch, Joseph, Cincinnati, Ohio. Rubber shoe-heels. No. 128,484; Jan. 6; v. 270; p. 183.
Pilgrim Clock Company, Inc., New York, N. Y. Watches, clocks, &c. No. 137,678; Nov. 30; v. 280; p. 999.
Pillsbury Flour Mills Company, Minneapolis, Minn. Buckwheat pancake-flour, wheat cereal, pancake-flour, and health-bran. No. 130,389; Apr. 20; v. 273; p. 623.
Pillsbury Flour Mills Company, Minneapolis, Minn. Buckwheat pancake-flour, wheat cereal, pancake-flour, rolled oats, and health-bran. No. 135,302; Sept. 28; v. 278; p. 704.
Pillsbury Flour Mills Company, Minneapolis, Minn. Wheat-flour. No. 136,583; Nov. 2; v. 280; p. 186.
Pinder, Carlotta, Chicago, Ill. Raisins, sugar-coated and chocolate-coated peanuts. No. 128,485; Jan. 6; v. 270; p. 183.
Pinder, Walter J., Orlando, Fla. Cigars and cigarettes. No. 130,866; May 4; v. 274; p. 189.
Pioneer Broom Company, Inc., Amsterdam, N. Y. Brooms. No. 130,103; Apr. 6; v. 273; p. 181.
Pioneer Chemical & Mfg. Co., The, Cleveland, Ohio. Chemical compound used as a cleaner. No. 136,154; Oct. 26; v. 279; p. 723.
Pioneer Corporation, Chicago, Ill. Luminous pendant. No. 132,033; June 8; v. 275; p. 415.
Pioneer Overall Company, The, Paterson, N. J. Overalls. No. 133,781; Aug. 3; v. 277; p. 176.
Pioneer Products, Inc., New York, N. Y. Rubber or fiber soles and heels. No. 137,369; Nov. 23; v. 280; p. 797.
Piper, Roscoe B., Sioux City, Iowa. Automobile tires and tubes. No. 135,042; Sept. 21; v. 278; p. 534.
Piroxloid Products Corporation, New York, N. Y. Dice, dominoes, chess, checkers, &c. No. 134,764; Sept. 14; v. 278; p. 359.
Piso Company, The, Warren, Pa. Preparation for coughs and colds. No. 131,363; May 11; v. 274; p. 401.
Pitard's, Inc., New Orleans, La. Tools. No. 131,213; May 4; v. 274; p. 199.
Pitometer Company, The, New York, N. Y. Instruments for indicating, measuring, and recording the velocity of flowing streams. No. 134,265; Aug. 24; v. 277; p. 778.
Pittman & Harrison Company, Sherman, Tex. Oat-seeds. No. 132,034; June 8; v. 275; p. 415.
Pittsburgh Brewing Company, Pittsburgh, Pa. Malt beverage. No. 129,049; Jan. 20; v. 270; p. 475.
Pittsburgh Brewing Company, Pittsburgh, Pa. Malt beverage. No. 129,201; Jan. 27; v. 270; p. 616.
Pittsburgh Oil Refining Corporation, Baltimore, Md. Lubricating-oils. No. 136,584; Nov. 2; v. 280; p. 186.
Pittsburgh Oil Refining Corporation, Baltimore, Md. Lubricating oils and greases. No. 136,585; Nov. 2; v. 280; p. 186.
Pittsburgh Oil Refining Corporation, Baltimore, Md. Printers' materials. No. 137,370; Nov. 23; v. 280; p. 797.
Pittsburgh Plate Glass Company, Pittsburgh, Pa. Artificially-prepared roofing. No. 132,035; June 8; v. 275; p. 415.
Pittsburgh Steel Company, Pittsburgh, Pa. Wire fencing. No. 135,572; Oct. 12; v. 279; p. 347.
Pittsburgh Transformer Company, Pittsburgh, Pa. Electrical apparatus. No. 136,728; Nov. 2; v. 280; p. 192.
Pittsburgh Transformer Company, Pittsburgh, Pa. Electrical transformers. No. 138,406; Dec. 21; v. 281; p. 571.
Placentia Mutual Orange Association, Placentia, Calif. Citrus fruits—namely, oranges. No. 134,066; Aug. 10; v. 277; p. 390.
Plainwell Canning & Preserving Company, Plainwell, Mich. Certain named foods. No. 130,224; Apr. 13; v. 273; p. 408.
Plant, Thomas G., Company, Boston, Mass. Boots, shoes, slippers, and spats of leather, felt, silk, &c. No. 137,371; Nov. 23; v. 280; p. 797.
Platt, Bert, & Co., Wichita, Kans. Decarbonizer for cylinders of automobile-engines. No. 133,782; Aug. 3; v. 277; p. 176.
Plaut, A. & J., Cincinnati, Ohio. Watches. No. 135,508; Oct. 12; v. 279; p. 345.
Plaut Company, The, Cincinnati, Ohio. Men's, women's, and children's furnishing goods. No. 138,498; Dec. 28; v. 281; p. 788.
Plaut, L., & Co., New York, N. Y. Metallic shades and reflectors for lighting-fixtures. No. 132,036; June 8; v. 275; p. 475.
Plaza Music Co., New York, N. Y. Talking-machine needles. No. 135,043; Sept. 21; v. 278; p. 534.
Plexo Preparations, Inc., New York, N. Y. Face-creams. No. 135,573; Oct. 12; v. 279; p. 347.
Plix Light Company, Inc., New York, N. Y. Motor-driven electric light and power units. No. 135,044; Sept. 21; v. 278; p. 534.
Plix Light Company, Inc., New York, N. Y. Motor-driven electric light and power units. No. 136,155; Oct. 26; v. 279; p. 723.
Plough, Abraham, Memphis, Tenn. Writing-tablets. No. 131,821; May 25; v. 274; p. 833.
Plough, Abraham, Memphis, Tenn. Hair-dressing. No. 132,483; June 22; v. 275; p. 821.
Plumb, Fayette R., Inc., Philadelphia, Pa. Hammers, hatchets, &c. No. 138,088; Dec. 14; v. 281; p. 400.
Plummer, A. Buckland, Chicago, Ill. Foot-pads. No. 130,390; Apr. 20; v. 273; p. 623.
Plummer and Edwins, Seattle, Wash. Fresh apples. No. 132,509; Oct. 12; v. 279; p. 345.
Plummer, Emma R., Urbana, Ohio. Hair-powder for dry shampooing. No. 136,586; Nov. 2; v. 280; p. 186.
Plymouth Foundry & Machine Co., The, Plymouth, Wis. Ensilage-cutter and silo-fillers. No. 136,156; Oct. 26; v. 279; p. 723.
Plymouth Phonograph Co., Plymouth, Wis. Phonographs. No. 134,765; Sept. 14; v. 278; p. 359.
Plymouth Rubber Company, Canton, Mass. Rubber heels for boots and shoes. No. 130,867; May 4; v. 274; p. 189.
Plymouth Rubber Company, Canton, Mass. Rubber heels for boots and shoes. No. 132,587; June 22; v. 275; p. 821.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Pneumatic Throttle Valve Co., Boston, Mass. Throttle-valves for pneumatic tools. No. 136,902; Nov. 9; v. 280; p. 382.
Pneumercator Company, New York, N. Y. Measuring appliances. No. 131,822; May 25; v. 274; p. 833.
Poage, R. C., Milling Co., Ashland, Ky. Flour. No. 131,214; May 4; v. 274; p. 199.
Pockman, Leonard H., San Francisco, Calif. Laxative tablets. No. 132,488; June 22; v. 275; p. 821.
Pocomoke Guano Co., The, Norfolk, Va. Fertilizer. No. 136,157; Oct. 26; v. 279; p. 723.
Podiatry Shoe Company, Inc., New York, N. Y. Orthopedic shoes, &c. No. 132,489; June 22; v. 275; p. 821.
Poetzl, Charles, Baltimore, Md. Remedy to promote the growth of the hair. No. 134,766; Sept. 14; v. 278; p. 359.
Pohlmann, Herman G., Chicago, Ill. Writing-paper. No. 136,587; Nov. 2; v. 280; p. 186.
Poland Export Corporation, New York, N. Y. Cigarettes, cigars, smoking and chewing tobacco. No. 130,104; Apr. 6; v. 273; p. 181.
Polhamus, Kathleen M., Los Angeles, Calif. Children's hats and caps. No. 135,510; Oct. 12; v. 279; p. 345.
Polk County Citrus Sub-Exchange, Bartow, Fla. Citrus fruits. No. 128,819; Jan. 13; v. 270; p. 342.
Polk County Citrus Sub-Exchange, Bartow, Fla. Fresh citrus fruits. No. 129,202; Jan. 27; v. 270; p. 616.
Pollak Steel Company, Cincinnati, Ohio. Locomotive and machinery axles. No. 128,820; Jan. 13; v. 270; p. 342.
Pollak Steel Company, Cincinnati, Ohio. Bars of open-hearth steel. No. 129,050; Jan. 20; v. 270; p. 475.
Pollak Steel Company, The, Cincinnati, Ohio. Locomotive and machinery axles, shafts, and gears. No. 131,364; May 11; v. 274; p. 401.
Pollard, Morris L., New York, N. Y. Hosiery for men and women, knit gloves, hocky-caps, &c. No. 135,774; Oct. 19; v. 279; p. 531.
Pollodoro Restaurant Co., Inc., New York, N. Y. Cold meats. No. 134,266; Aug. 24; v. 277; p. 778.
Polonia Drug Company, The, Philadelphia, Pa. Liniments for muscular pains, &c. No. 131,823; May 25; v. 274; p. 833.
Polonia Drug Company, The, Philadelphia, Pa. Liniments to be used externally for relieving rheumatic and gouty conditions, neuralgia, liquid cough medicines, headache remedies, liver-pills, &c. No. 134,767; Sept. 14; v. 278; p. 359.
Polonia Phonograph Co., Inc., New York, N. Y. Phonographs, mechanical motors for same, record-needles, &c. No. 130,868; May 4; v. 274; p. 189.
Polson Rubber Co., Cleveland, Ohio. Belting, hose, machinery packing, and non-metallic tires. No. 133,301; July 20; v. 276; p. 592.
Pomeroy and Company, Atlanta, Ga. Medicine for certain named diseases. No. 135,303; Sept. 28; v. 278; p. 704.
Pomeroy Ink Manufacturing Co., Newark, N. J. Writing-inks of all kinds, inks for stamp-pads, and numbering-machines, &c. Nos. 134,768–9; Sept. 14; v. 278; p. 359.
Pomeroy Ink Manufacturing Co., Newark, N. J. Mucilage, paste, and sealing-wax. No. 137,372; Nov. 23; v. 280; p. 797.
Pomona Products Co., Pomona, Ga. Canned red peppers, pimento sauce, &c. No. 131,919; May 25; v. 274; p. 836.
Pompeian Mfg. Co., The, Cleveland, Ohio. Pharmaceutical preparations. No. 132,490; June 22; v. 275; p. 821.
Ponce De Leon Beauty Preparations, Inc., New York, N. Y. Almond jelly, rouge, face-powder, &c. No. 129,385; Feb. 17; v. 271; p. 509.
Ponto, Theodore R., Spokane, Wash. Laundry-tablets and powdered cleanser. No. 136,997; Nov. 9; v. 280; p. 385.
Poole, Clyde W., Los Angeles, Calif. Marmalade. No. 128,486; Jan. 6; v. 270; p. 183.
Poor's Publishing Company, New York, N. Y. Publications. No. 133,490; July 27; v. 276; p. 771.
Poor's Publishing Company, New York, N. Y. Publications. No. 134,770; Sept. 14; v. 278; p. 359.
Popper, E., & Co., New York, N. Y. Cigars. No. 129,051; Jan. 20; v. 270; p. 475.
Popular Canning Co. Inc., Los Angeles, Calif. Canned peaches, pears, and tomatoes. No. 134,007; Aug. 10; v. 277; p. 390.
Porcelain Enameling Association of America, Sheboygan, Wis. Enamel metal ware. No. 129,305; Feb. 10; v. 271; p. 356.
Porcupine Manufacturing Company. (See Steell, Edgar M., assignor.)
Portalis & Co., Ltd. Buenos Aires, Argentina, and New York, N. Y. Wheat-flour. Nos. 136,158–9; Oct. 26; v. 279; p. 723.
Portland Cheese Company, Portland, Oreg. Cheese. No. 137,373; Nov. 23; v. 280; p. 797.
Portland Flouring Mills Company, Portland, Oreg. Wheat-flour, cake and pastry flour, &c. No. 128,487; Jan. 6; v. 270; p. 183.
Portland Label Co., Milwaukie, Oreg. Adhesive printed stickers. No. 129,832; Mar. 9; v. 272; p. 367.
Portland Products Company, South Portland, Me. Sardines. Nos. 137,051–2; Nov. 16; v. 280; p. 584.
Porter, Robert W., Mobile, Ala. Toy furniture. No. 133,020; July 6; v. 276; p. 203.
Porter, Warren D., San Francisco, Calif. Men's and boys' underwear. No. 133,802; July 20; v. 276; p. 592.
Porterfield Baking Company, Indianapolis, Ind. Doughnuts and cookies. No. 134,426; Aug. 31; v. 277; p. 974.
Post Pictures Corporation, New York, N. Y. Pictures to be projected upon a screen, motion-picture films, &c. No. 132,491; June 22; v. 275; p. 822.
Post Pictures Corporation, New York, N. Y. Motion-picture films, still and animated pictures, &c. No. 138,089; Dec. 14; v. 281; p. 400.
Postum Cereal Company, Battle Creek, Mich. Hominy feed. No. 128,821; Jan. 13; v. 270; p. 342.
Postum Cereal Company, Battle Creek, Mich. Corn-flour. No. 129,386; Feb. 17; v. 271; p. 509.
Postum Cereal Company, Inc., Wilmington, Del., and Battle Creek, Mich. Corn-flour, hominy, grits, meal. No. 134,267; Aug. 24; v. 277; p. 778.
Potter, Joseph, Birmingham, England. Safety-razors. No. 130,560; Apr. 27; v. 273; p. 804.
Potter, Louis, New York, N. Y. Clothing. No. 133,176; July 13; v. 276; p. 403.
Powdered Coal Engineering & Equipment Company, Chicago, Ill. Machine for mixing coal-dust and air and delivering same to the furnace, &c. No. 130,002; Mar. 16; v. 272; p. 540.
Powdered Coal Engineering & Equipment Company, Chicago, Ill. Powdered fuel made of coal. No. 130,225; Apr. 13; v. 273; p. 403.
Powell & Campbell, New York, N. Y. Shoes. No. 128,822; Jan. 13; v. 270; p. 342.
Powell-McLean Specialty Co., Los Angeles, Calif. Windshields for automobiles. No. 137,679; Nov. 30; v. 280; p. 999.
Powell Preserving Co., Downey, Calif. Preserved and pickled fruits. No. 137,374; Nov. 23; v. 280; p. 797.
Powell's, New York, N. Y. Candy. No. 135,775; Oct. 19; v. 279; p. 531.
Power Manufacturing Company, Marion, Ohio. Gas-engines. No. 131,215; May 4; v. 274; p. 199.
Power Manufacturing Company, The, Marion, Ohio. Internal-combustion engines. No. 138,090; Dec. 14; v. 281; p. 400.
Power Specialty Company, New York, N. Y. Heating apparatus and parts thereof. No. 137,083; Nov. 16; v. 280; p. 586.
Powerol Chemical Company, Pittsburgh, Pa. Eczema-ointment. No. 128,823; Jan. 13; v. 270; p. 342.
Powers, Lucius, Fresno, Calif. Citrus and fresh fruits. No. 134,268; Aug. 24; v. 277; p. 778.
Powers Manufacturing Company, The, Waterloo, Iowa. Overalls and one-piece garments. No. 129,203; Jan. 27; v. 270; p. 616.
Powers Manufacturing Company, The, Waterloo, Iowa. Transmission-linings. No. 138,330; Dec. 21; v. 281; p. 566.
Powers Paper Company, Springfield, Mass. Non-carbonized typewriting and printing paper. No. 134,527; Sept. 7; v. 278; p. 160.
Powlok Company, The, Cleveland, Ohio. Gears to be used in motor-vehicles. No. 138,091; Dec. 14; v. 281; p. 400.
Praisner, Solomon, Brooklyn, N. Y. Fluid intended to relieve falling hair. No. 135,045; Sept. 21; v. 278; p. 534.
Prange Milling Company, New Douglas, Ill. Wheat-flour. No. 136,588; Nov. 2; v. 280; p. 186.
Prange Milling Company, New Douglas, Ill. Self-rising wheat-flour. No. 136,589; Nov. 2; v. 280; p. 186.
Pratt Bread Company, Boston, Mass. Bread. No. 130,869; May 4; v. 274; p. 189.
Pratt, Elmer A., Erie, Pa. Glass drawer and door knobs and glass door push-plates. No. 137,375; Nov. 23; v. 280; p. 797.
Pratt Food Co., Philadelphia, Pa. Medicinal preparations. No. 138,201; Dec. 14; v. 281; p. 406.
Pratt & Lambert—Inc., Buffalo, N. Y. Aeroplane-dope (a preparation for coating, shrinking, and filling the cloth wings of aeroplanes). No. 131,580; May 18; v. 274; p. 607.
Pratt, Milan F., Rochester, N. Y. Remedies to correct an acid condition of the stomach. No. 131,578; May 18; v. 274; p. 607.
Pratt & Whitney Company, New York, N. Y. Dimension-gages and attachments therefor. No. 130,870; May 4; v. 274; p. 189.
Precision Equipment Co., The, Cincinnati, Ohio. Wireless apparatus, &c. No. 135,776; Oct. 19; v. 279; p. 531.
Precision Instrument Company, Detroit, Mich. Measuring and scientific appliances. No. 131,579; May 18; v. 274; p. 607.
Precision Instrument Company, Detroit, Mich. Measuring and scientific appliances. No. 131,824; May 25; v. 274; p. 833.
Preis, J. J., & Company, New York, N. Y. Outer garments for young men and boys. No. 132,227; June 15; v. 275; p. 619.
Premier Manufacturing Co., Lexington, Ky. Athletic union-suits. No. 135,046; Sept. 21; v. 278; p. 534.
Premium Metal & Packing Co., Wilkinsburg, Pa. Babbitt metals. No. 134,188; Aug. 17; v. 277; p. 582.

Digitized by Google

Pressed Metal Radiator Company, Pittsburgh, Pa. Welded steel and iron tubing. No. 129,052; Jan. 20; v. 270; p. 475.
Presto-Felt Mfg. Co., The, Toledo, Ohio. Wiping and cleaning apparatus for automobile wind-shields, &c. No. 133,021; July 6; v. 276; p. 203.
Preston Chemical Company, Brooklyn, N. Y. Tablets in the form of aspirin and phenacetin, &c. No. 133,491; July 27; v. 276; p. 771.
Preston, W., & Son, Ltd., Leicester, England. Elastic gusset-web. No. 129,833; Mar. 9; v. 272; p. 367.
Preston, W., & Son, Ltd., Leicester, England. Elastic web, (india-rubber.) No. 129,834; Mar. 9; v. 272; p. 367.
Price, A. S., & Co., Ld., Blackheath, England. Custard-powder, sponge-cake flour, &c. No. 137,848; Dec. 7; v. 281; p. 198.
Price Compound Company, Minneapolis, Minn. Preservative compound for meats, fish, and fowl. No. 132,782; June 29; v. 275; p. 1018.
Price, Lawrence T., Richmond, Va. Liquid for the treatment of gonorrhea. No. 128,824; Jan. 13; v. 270; p. 342.
Price & Lee Co., The, New Haven, Conn. Guide-books. No. 136,903; Nov. 9; v. 280; p. 382.
Price Medicine Co., Terre Haute, Ind. Remedy for certain named ailments. No. 135,777; Oct. 19; v. 279; p. 531.
Price Specialty Company, Indianapolis, Ind. Food products. No. 137,376; Nov. 23; v. 280; p. 797.
Price, William B., Poughkeepsie, and New York, N. Y. Preparation for waterproofing and preserving automobile-tops and similar articles. No. 134,771; Sept. 14; v. 278; p. 359.
Priddy, Chas. W., & Company, Inc., Norfolk, Va. Fertilizer, agricultural lime, land-plaster, and agricultural salt. No. 136,904; Nov. 9; v. 280; p. 382.
Prieto Machine Company Inc., Brooklyn, N. Y. Fiber-decorticating machinery. No. 138,092; Dec. 14; v. 281; p. 400.
Prince Lauten Co., New York, N. Y. Cotton goods in the piece. No. 131,581; May 18; v. 274; p. 607.
Prince Macaroni Mfg. Co., Boston, Mass. Macaroni. No. 130,871; May 4; v. 274; p. 189.
Prince Macaroni Mfg. Co., Boston, Mass. Macaroni. No. 137,680; Nov. 30; v. 280; p. 999.
Prime Shirt Co., Inc., New York, N. Y. Outer shirts and pajamas. No. 128,825; Jan. 13; v. 270; p. 342.
Priscilla Company, The, Boston, Mass. Children's clothing. No. 133,785; Aug. 3; v. 277; p. 176.
Priscilla Publishing Co., Boston, Mass. Fancy goods, furnishings, and notions. No. 132,783; June 29; v. 275; p. 1018.
Pritchard, William C., Lancaster, Pa. Computing-scales, measuring-pumps. No. 133,303; July 20; v. 276; p. 592.
Private Estate Coffee Company, New York, N. Y. Cocoa. No. 137,053; Nov. 16; v. 280; p. 584.
Private Estate Coffee Company, New York, N. Y. Coffee, tea, olive-oil, spice, and cocoa. No. 137,377; Nov. 23; v. 280; p. 797.
Pro-Distributors Publishing Company, Inc., New York, N. Y. Magazines or periodicals. No. 136,161; Oct. 26; v. 279; p. 723.
Probst, A. O., & Co., New York, N. Y. Maltose, glucose, &c., for food-flavoring. No. 138,093; Dec. 14; v. 281; p. 400.
Probst, Emil, Brooklyn, N. Y. Icing for cake and bread. No. 130,226; Apr. 18; v. 273; p. 403.
Procter & Collier Company, The, Cincinnati, Ohio. Bimonthly magazine. No. 135,511; Oct. 12; v. 279; p. 345.
Procter and Gamble Company, Cincinnati, Ohio. Cooking-fat. No. 128,488; Jan. 6; v. 270; p. 183.
Procter and Gamble Company, The, Cincinnati, Ohio. Refined candle-tar for roofing compositions. No. 131,216; May 4; v. 274; p. 199.
Procter and Gamble Company, The, Cincinnati, Ohio. Soap. No. 132,037; June 8; v. 275; p. 415.
Procter and Gamble Company, The, Cincinnati, Ohio. Soap. Nos. 132,228–9; June 15; v. 275; p. 619.
Procter and Gamble Company, The, Cincinnati, Ohio. Soap. No. 133,492; July 27; v. 276; p. 771.
Procter and Gamble Company, The, Cincinnati, Ohio. Paper-pulp. No. 134,772; Sept. 14; v. 278; p. 359.
Procter and Gamble Company, The, Cincinnati, Ohio. Soap. No. 134,773; Sept. 14; v. 278; p. 359.
Procter and Gamble Company, Cincinnati, Ohio. Soap. No. 135,047; Sept. 21; v. 278; p. 534.
Procter and Gamble Company, The, Cincinnati, Ohio. Paper-pulp. No. 135,304; Sept. 28; v. 278; p. 704.
Procter and Gamble Company, The, Cincinnati, Ohio. Oleomargarin. No. 136,160; Oct. 26; v. 279; p. 723.
Procter and Gamble Company, The, Cincinnati, Ohio. Paper-pulp made from cotton-seed-hull shavings, &c. No. 136,590; Nov. 2; v. 280; p. 186.
Procter and Gamble Company, The, Cincinnati, Ohio. Soap flakes. No. 137,849; Dec. 7; v. 281; p. 198.
Producer Music Company, St. Louis, Mo. Sheet-music. No. 133,493; July 27; v. 276; p. 771.
Producer's Paper Company, St. Paul, Minn. Novelty paper coverings for boxes. No. 128,826; Jan. 13; v. 270; p. 342.
Progress Grocery Company, Inc., New Orleans, La. Canned egg-plant, natural tomato paste with sweet basil, &c. No. 137,850; Dec. 7; v. 281; p. 198.
Progressive Cigar Corporation of Philadelphia, Philadelphia, Pa. Cigars. No. 134,774; Sept. 14; v. 278; p. 359.
Projection Optics Co. Inc., Rochester, N. Y. Projection-lenses. No. 137,054; Nov. 16; v. 280; p. 584.
Proper Antiseptic Laboratory, Cincinnati, Ohio. Antiseptic, germicide, &c. No. 128,827; Jan. 13; v. 270; p. 342.
Propper, Leo, New York, N. Y. Women's and children's hosiery. No. 132,230; June 15; v. 275; p. 619.
Prosnitz, Charles, Mount Vernon and New York, N. Y. Narrow woven fabrics. No. 133,022; July 6; v. 276; p. 203.
Proud-Leeper Mfg. Co., Los Angeles, Calif. Strength-building tonic. No. 129,835; Mar. 9; v. 272; p. 367.
Prouty-Bowler Soap Co., Des Moines, Iowa. Laundry soap. No. 138,094; Dec. 14; v. 281; p. 400.
Providence Needle Co., Providence, R. I. Metal knitting-machine needles. No. 128,490; Jan. 6; v. 270; p. 183.
Providence Specialty Company, Providence, R. I. Lacquer and varnishes. No. 133,494; July 27; v. 276; p. 771.
Prudential Rubber Company, The, Akron, Ohio. Automobile-tires and inner tubes of rubber for tires. No. 137,682; Nov. 30; v. 280; p. 1000.
Pruett-Schaffer Chemical Company, Pittsburgh, Pa. Ready-mixed paints, dry colors, asphalt paint, &c. No. 135,778; Oct. 19; v. 279; p. 531.
Prussian, Samuel W., Cambridge, Mass. Power-hoists. No. 131,365; May 11; v. 274; p. 401.
Prussian, Samuel W., Cambridge, Mass. Internal-gear drive units and drives for motor-vehicles, &c. No. 132,038; June 8; v. 275; p. 415.
Public Ledger Company, Philadelphia, Pa. Title for an art feature in newspapers. No. 136,591; Nov. 2; v. 280; p. 186.
Puente Oil Company, Los Angeles, Calif. Lubricating-oils. No. 136,592; Nov. 2; v. 280; p. 186.
Puffer-Hubbard Manufacturing Company, Minneapolis, Minn. Clothes-washing machines. No. 136,593; Nov. 2; v. 280; p. 186.
Pure Beverage Company, Toledo, Ohio. Non-alcoholic beverage. No. 131,582; May 18; v. 274; p. 607.
Purepakt Products Company, Washington, Ind. Foods. No. 134,068; Aug. 10; v. 277; p. 390.
Puritan Candy Co., Milwaukee, Wis. Candies. No. 136,162; Oct. 26; v. 279; p. 723.
Puritan Pharmaceutical Company, St. Louis, Mo. Toilet preparation. No. 129,836; Mar. 9; v. 272; p. 367.
Puritan Silks Corporation, Chicago, Ill. Silk piece goods. No. 131,583; May 18; v. 274; p. 607.
Puritan Silks Corporation, Chicago, Ill. Silk piece goods. No. 132,231; June 15; v. 275; p. 619.
Puritan Silks Corporation, Chicago, Ill. Silk piece goods. No. 135,779; Oct. 19; v. 279; p. 531.
Purity Creamery Company. (See L. & S. Products Co., assignor.)
Purity Cross, Inc., West Orange, N. J. Food products in tins, &c. No. 128,828; Jan. 13; v. 270; p. 342.
Purity Cross, Inc., West Orange, N. J. Ginger-ale. No. 132,232; June 15; v. 275; p. 619.
Purity Oats Company, Davenport and Keokuk, Iowa. Cream and muffin meals, hominy, &c. No. 129,837; Mar. 9; v. 272; p. 367.
Pushee, J. C., & Sons, Boston, Mass. Painters' and shaving brushes, floor-brooms, and counter-dusters. No. 133,023; July 6; v. 276; p. 203.
Putnam, Alfred, & Company, New York, N. Y. Canned fruits and canned vegetables. No. 129,204; Jan. 27; v. 270; p. 616.
Putnam Overall Mfg. Co., Cookeville, Tenn. Men's and boys' coats, pants, &c. No. 129,205; Jan. 27; v. 270; p. 616.
Putney, Stephen, Shoe Co., Richmond, Va. Boots and shoes of leather for men, women, and children. No. 129,387; Feb. 17; v. 271; p. 509.
Putney, Stephen, Shoe Co., Richmond, Va. Boots and shoes of leather. No. 135,305; Sept. 28; v. 278; p. 704.
Puyallup & Sumner Fruit Growers Canning Co., Puyallup, Wash. Canned and crushed fruits, fruit preserves, and jams. No. 134,269; Aug. 24; v. 277; p. 778.
Pyramid Clothing Manufacturing Company, St. Louis, Mo. Overalls, coats, dress and work shirts, slickers, hosiery, &c. No. 132,492; June 22; v. 275; p. 822.
Pyramid Clothing Manufacturing Company, St. Louis, Mo. Overalls, jumpers, and work-shirts. No. 138,331; Dec. 21; v. 281; p. 566.
Pyramid Pants Company, Chicago, Ill. Trousers. No. 138,332; Dec. 21; v. 281; p. 566.
Pyrene Manufacturing Company, New York, N. Y. Cleaning material, particularly for fabrics. No. 135,306; Sept. 28; v. 278; p. 704.
Pyro Products Company, Chicago, Ill. Fire-brick. No. 130,872; May 4; v. 274; p. 189.
Pyro Products Company, Chicago, Ill. Fire-brick. No. 132,039; June 8; v. 275; p. 415.
Q. R. S. Company, Chicago, Ill. Talking-machine records. No. 132,784; June 29; v. 275; p. 1018.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Quaker City Corporation, Philadelphia, Pa. Leather. No. 128,491; Jan. 6; v. 270; p. 183.
Quaker City Flour Mills Co., Philadelphia, Pa. Wheat-flour. No. 128,829; Jan. 13; v. 270; p. 342.
Quaker City Flour Mills Company, Philadelphia, Pa. Self-rising wheat-flour. No. 129,206; Jan. 27; v. 270; p. 616.
Quaker City Shirt Manufacturing Company, The, Norristown, Pa. Shirts, (dress, negligée, and work,) collars and cuffs. No. 134,775; v. 278; p. 359.
Quakertown Stove Works, Quakertown, Pa. Coal, gas, and wood heaters, stoves, and ranges. No. 132,785; June 29; v. 275; p. 1018.
Qualitas Patent Leather Corporation, Wilmington, Del., and New York, N. Y. Leather. No. 128,492; Jan. 6; v. 270; p. 183.
Queen Anne Candy Co. Inc., Seattle, Wash. Candies. No. 137,055; Nov. 16; v. 280; p. 584.
Queen City Marshmallow and Syrup Company, The, Cincinnati, Ohio. Non-alcoholic, non-cereal, maltless beverage. No. 137,683; Nov. 30; v. 280; p. 1000.
Quiesser & Co., Hamburg, Germany. Creams and paste for the teeth. No. 132,493; June 22; v. 275; p. 822.
Quiesser & Co., Hamburg, Germany. Cream, particularly an ointment for improvement of the skin. No. 132,494; June 22; v. 275; p. 822.
Quigley Furnace Specialties Co., Incorporated, New York, N. Y. Refractory brick. No. 132,040; June 8; v. 275; p. 415.
Quigley Furnace Specialties Co., Incorporated, New York, N. Y. Refractory lining for furnace structures. No. 133,304; July 20; v. 276; p. 592.
Quigley Furnace Specialties Co. Incorporated, New York, N. Y. Steel. No. 137,378; Nov. 23; v. 280; p. 797.
Quimby, U. S., Company, Boston, Mass. Foods. No. 138,520; Dec. 28; v. 281; p. 784.
Quinby, W. S., Company, Boston, Mass. Coffee. No. 129,838; Mar. 9; v. 272; p. 367.
Quinby, W. S., Company, Boston, Mass. Tea and coffee. No. 129,839; Mar. 9; v. 272; p. 367.
Quinby, W. S., Company, Boston, Mass. Tea. No. 130,227; Apr. 13; v. 273; p. 403.
Quinebaug Company, Danielson, Conn. Piece goods—namely, shirtings. No. 131,584; May 18; v. 274; p. 607.
Quinn, Frank O., Omaha, Nebr. Washing-powder. No. 135,048; Sept. 21; v. 278; p. 534.
R. O. R. Chemical Co., Red Lion, Pa. Compound for removing road oils and tars from automobiles and clothing. No. 132,328; June 22; v. 275; p. 816.
Raab, Charles, Philadelphia, Pa. Ladies' blouses and shirt-waists. No. 130,873; May 4; v. 274; p. 189.
Rabinowitz, Isidore, Apparel Co. Inc., New York, N. Y. Women's dresses, skirts, &c. No. 129,054; Jan. 20; v. 270; p. 475.
Racine Auto Tire Company, Racine, Wis. Inner tubes for pneumatic tires. No. 135,512; Oct. 12; v. 279; p. 345.
Racine Rubber Company, Racine, Wis. Rubber or rubber-fabric tires and tubes for vehicles. No. 136,594; Nov. 2; v. 280; p. 186.
Rada-Solvt Co., Los Angeles, Calif. Chemical solution to clean out radiators and boilers. No. 128,830; Jan. 13; v. 270; p. 342.
Rader, Frank A., Cleveland, Ohio. Polish for furniture and woodwork. No. 133,305; July 20; v. 276; p. 592.
Radin, Harry R., Newark, N. J. Containers and sterilizers for tooth-brushes. No. 133,786; Aug. 3; v. 277; p. 176.
Radior Co. Ltd. of London, New York, N. Y. Forehead and under-chin pads. No. 134,776; v. 278; p. 359.
Radior Co. Ltd. of London, New York, N. Y. Forehead and underchin pads. No. 135,780; Oct. 19; v. 279; p. 531.
Radium Appliance Company, The, Los Angeles, Calif. Medicinal pads coated with radioactive minerals. No. 136,163; Oct. 26; v. 279; p. 723.
Radium Luminous Material Corporation, New York, N. Y. Luminous material. No. 131,585; May 18; v. 274; p. 607.
Radium Luminous Material Corporation, New York, N. Y. Self-luminous material, such as compounds containing zinc, sulfid, and radium. No. 132,495; June 22; v. 275; p. 822.
Radway & Co., New York, N. Y. Preparation for the treatment of certain named ailments. No. 133,495; July 27; v. 276; p. 771.
Rafael del Castillo & Co., New York, N. Y. Wheat-flour. No. 130,668; May 4; v. 274; p. 182.
Raffo, Anthony, New York, N. Y. Water-softener for washing purposes. No. 129,840; Mar. 9; v. 272; p. 367.
Ragan-Malone Co., Atlanta, Ga. Clothing. No. 137,920; Dec. 7; v. 281; p. 201.
Ragenowich, Dano P., San Francisco, Calif. Consumption cure. No. 128,493; Jan. 6; v. 270; p. 183.
Railroad Yardmasters of America, Columbus, Ohio. Monthly publication. No. 136,905; Nov. 9; v. 280; p. 382.
Rainford, Jacob A., Bergenfield, N. J. Undervests, storm-vests, padded and quilted vests and jackets. No. 135,049; Sept. 21; v. 278; p. 534.
Rainier Products Company, Seattle, Wash. Birch and root beer, sarsaparilla, ginger-ale, and cider. No. 131,587; May 18; v. 274; p. 607.
Rainier Products Company, Seattle, Wash. Malt cereal beverage. Nos. 132,496–7; June 22; v. 275; p. 822.
Rainier Products Company, Seattle, Wash. Malt cereal beverage. No. 136,906; Nov. 9; v. 280; p. 382.
Ralko Products Company, The, Dayton, Ohio. Hand fire-extinguishers. No. 134,189; Aug. 17; v. 277; p. 582.
Ralston Purina Company, St. Louis, Mo. Stock feed. No. 134,069; Aug. 10; v. 277; p. 390.
Ralston Purina Company, St. Louis, Mo. Stock feed. No. 136,595; Nov. 2; v. 280; p. 186.
Ramey Mfg. Company, The. Columbus, Ohio. Electric vacuum-cleaners. No. 135,308; Sept. 28; v. 278; p. 704.
Ramsey, Porter E., Richmond, Va. Spark boosters and intensifiers. No. 133,784; Aug. 3; v. 277; p. 176.
Rand, Donald A., Stoughton, Mass. Chocolates. No. 131,586; May 18; v. 274; p. 607.
Randall-McLoughlin Co., Seattle, Wash. Stock foods, poultry and dog foods. No. 129,207; Jan. 27; v. 270; p. 616.
Randall-McLoughlin Co., Seattle, Wash. Fertilizers. No. 131,825; May 25; v. 274; p. 833.
Randall-McLoughlin Co., Seattle, Wash. Agricultural seeds—namely, grain and grass seeds, nursery stock, &c. No. 134,777; Sept. 14; v. 278; p. 359.
Randall-McLoughlin Co., Seattle, Wash. Insecticides. No. 136,596; Nov. 2; v. 280; p. 186.
Randall, T. A., & Co. Inc., Indianapolis, Ind. Magazines issued monthly. No. 137,684; Nov. 30; v. 280; p. 1000.
Ransom, John B., & Company, Nashville, Tenn. Shingles, laths, and oak flooring. No. 135,513; Oct. 12; v. 279; p. 345.
Ransom & Randolph Company, The, Toledo, Ohio. Local anesthetic, sodium phenique compound, &c. No. 134,528; Sept. 7; v. 278; p. 160.
Ransom & Randolph Company, Toledo, Ohio. Dental burs. No. 137,084; Nov. 16; v. 280; p. 586.
Rapp & Doolittle, Wichita, Kans. Razors and shears. No. 137,379; Nov. 23; v. 280; p. 797.
Rapp, Samuel W., Jr., Morton, Ill. Cleansing compound, hand-soap, laundry chips, &c. No. 136,907; Nov. 9; v. 280; p. 382.
Rathbone, Laura H., Kenilworth, Ill. Sheet-music and songs. No. 129,841; Mar. 9; v. 272; p. 265.
Ravich, I., & Sons, Inc., New York, N. Y. Belts for supporting garments. No. 132,786; June 29; v. 275; p. 1018.
Rawleigh, W. T., Company, Freeport, Ill. Sewing-machine oil. No. 128,495; Jan. 6; v. 270; p. 183.
Rawleigh, W. T., Company, Freeport, Ill. Toilet soaps, shaving-cream, washing compounds, &c. No. 128,496; Jan. 6; v. 270; p. 183.
Rawleigh, W. T., Company, Freeport, Ill. Furniture-polish. No. 129,056; Jan. 20; v. 270; p. 475.
Rawleigh, W. T., Company, Freeport, Ill. Chemicals, medicines and pharmaceutical preparations. No. 129,842; Mar. 9; v. 272; p. 367.
Ray, Edwin D., Tampa, Fla. Roach-exterminator. No. 129,843; Mar. 9; v. 272; p. 367.
Ray & Frazier, Florence, S. C. Non-alcoholic beverages. No. 130,889; May 4; v. 274; p. 190.
Raymond Hadley Corporation, The, New York, N. Y. Wheat-flour. No. 137,380; Nov. 23; v. 280; p. 797.
Raymond Phonograph Co. Inc., Atlanta, Va. Phonographs, records, and needles. No. 129,055; Jan. 20; v. 270; p. 475.
Re-Be Soap Co., Inc., New York, N. Y. Soap-powder dispensers. No. 137,851; Dec. 7; v. 281; p. 198.
Re-Flit Broom Company, Boston, Mass. Brooms. No. 137,852; Dec. 7; v. 281; p. 198.
Readers' Publishing Corporation, New York, N. Y. Monthly publication. No. 137,685; Nov. 30; v. 280; p. 1000.
Reading Baking & Pretzel Co., Inc., Reading, Pa. Pretzels. No. 138,095; Dec. 14; v. 281; p. 400.
Reading Hat & Cap Co., New York, N. Y. Hats and caps. No. 137,686; Nov. 30; v. 280; p. 1000.
Ready To Wear Publishing Company, New York, N. Y. Trade publication issued daily. No. 133,496; July 27; v. 276; p. 771.
Realart Pictures Corporation, New York, N. Y. Motion-picture films. No. 130,391; Apr. 20; v. 273; p. 623.
Reardon, John J., Philadelphia, Pa. Ginger-ale, ginger-beer, sarsaparilla, and club-soda. No. 135,050; Sept. 21; v. 278; p. 534.
Record Card Co., New York, N. Y. Filing-cards. No. 130,874; May 4; v. 274; p. 189.
Red Ball Company, The, Madrid, Iowa. Soap powder, laundry soap, shaving-soap, &c. No. 138,096; Dec. 14; v. 281; p. 400.
Red "C" Oil Manufacturing Co., Baltimore, Md. Soaps. No. 133,787; Aug. 3; v. 277; p. 176.
Red Star Milling Company, Wichita, Kans. Wheat-flour. No. 129,059; Jan. 20; v. 270; p. 475.
Red Wing Company, Inc., The, Fredonia, N. Y. Apple-butter. No. 137,056; Nov. 16; v. 280; p. 584.
Redel Candy Corporation, The, Milwaukee, Wis. Candy. Nos. 134,270–3; Aug. 24; v. 277; p. 779.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Redel Candy Corporation, The, Milwaukee, Wis. Candy and chocolate. No. 137,057; Nov. 16; v. 280; p. 584.
Redmanol Chemical Products Co., Chicago, Ill. Smokers' articles—namely, pipes, mouthpieces, &c., not of precious metal. No. 135,781; Oct. 19; v. 279; p. 531.
Redmanol Chemical Products Co., Chicago, Ill. Electrical appliances. No. 138,097; Dec. 14; v. 281; p. 400.
Redondo Packing Co., Redondo, Calif. Canned fish—namely, sardines and tuna. No. 137,381; Nov. 23; v. 280; p. 797.
Reece, Henry, New York, N. Y. Clothing. No. 136,164; Oct. 26; v. 279; p. 723.
Reed, Chas. H., New York, N. Y. Bunting. No. 133,024; July 6; v. 276; p. 203.
Reed, Chas. H., New York, N. Y. Cotton piece goods. No. 134,070; Aug. 10; v. 277; p. 390.
Reed, Chas. H., New York, N. Y. Bunting. No. 135,782; Oct. 19; v. 279; p. 531.
Reed, Eugene O., Company, Chicago, Ill. Candy. Nos. 136,165–6; Oct. 26; v. 279; p. 723.
Reed, James W., Imperial, Calif. Citrus fruits—namely, grapefruit. No. 134,071; Aug. 10; v. 277; p. 390.
Reed, Leon L., Marathon, N. Y. Medicinal preparation. No. 136,597; Nov. 2; v. 280; p. 186.
Reed & Prince Manufacturing Company, Worcester, Mass. Screws, bolts, nuts, &c. No. 130,561; Apr. 27; v. 273; p. 804.
Reed Tobacco Company, Richmond, Va. Cigarettes. Nos. 129,057–8; Jan. 20; v. 270; p. 475.
Reeder, Oliver, & Son, Incorporated, Baltimore, Md. Metal-polish. No. 128,476; Jan. 6; v. 270; p. 183.
Reese Chemical Co., Cleveland, Ohio. Remedy for skin eruptions, &c. No. 128,497; Jan. 6; v. 270; p. 183.
Reese & Company, Atlanta, Ga. Candy. No. 135,783; Oct. 19; v. 279; p. 531.
Reese & Reese, Baltimore, Md. Writing, printing, and wrapping papers. No. 129,844; Mar. 9; v. 272; p. 367.
Reeve, H., Angel & Co., Inc., New York, N. Y. Filter-paper. No. 134,072; Aug. 10; v. 277; p. 390.
Reeves, Lucy J., Atlanta, Ga. Hair-grower shampoo, brilliantine, or pressing-oil. No. 132,788; June 29; v. 275; p. 1018.
Reflex Auto Accessory Co., Auburn, Ind. Brake-band lining. No. 135,052; Sept. 21; v. 278; p. 534.
Regal Polishing Cloth Co., Chicago, Ill. Polishing and wiping cloth. No. 133,788; Aug. 3; v. 277; p. 176.
Regan, Jas. J., Mfg. Co., Rockville, Me. Woolen and worsted suitings. No. 128,498; Jan. 6; v. 270; p. 183.
Regennas, C. Fred., & Sons Company, Inc., Lititz, Pa. Candy. No. 135,514; Oct. 12; v. 279; p. 345.
Regina Company, The, New York, N. Y. Electric vacuum-cleaners, and parts thereof. No. 135,051; Sept. 21; v. 278; p. 534.
Regina Company, The, New York, N. Y. Musical instruments, &c. No. 136,167; Oct. 26; v. 279; p. 723.
Regine, Michele A., Philadelphia, Pa. Explosive powder. No. 136,168; Oct. 26; v. 279; p. 723.
Reichmann & Faust, New York, N. Y. Composition hairpins, wire hairpins, hair-fasteners, &c. No. 133,790; Aug. 3; v. 277; p. 176.
Reichman & Faust, New York, N. Y. Brushes. No. 137,382; Nov. 23; v. 280; p. 797.
Reichman & Faust, New York, N. Y. Hair-nets. No. 137,853; Dec. 7; v. 281; p. 198.
Reid Bros., Inc., San Francisco, Calif., and Seattle, Wash. General medical and surgical supplies. No. 129,060; Jan. 20; v. 270; p. 475.
Reid Bros. Inc., San Francisco, Calif., and Seattle, Wash. Articles made of glass. No. 130,003; Mar. 16; v. 272; p. 540.
Reid Bros., Inc., San Francisco, Calif., and Seattle, Wash. Measuring and scientific appliances. No. 130,875; May 4; v. 274; p. 189.
Reid Ice Cream Company, The, New York, N. Y. Ice-cream and charlotte russe. No. 134,428; Aug. 31; v. 277; p. 974.
Reid Ice Cream Company, The, New York, N. Y. Ice-cream. No. 134,429; Aug. 31; v. 277; p. 974.
Reilly, Peter C., Indianapolis, Ind. Mixed paints. No. 129,388; Feb. 17; v. 271; p. 509.
Reilly-Snyder Manf'g Co. Inc., New York, N. Y. Carbon-remover for gas-engine cylinders. No. 136,598; Nov. 2; v. 280; p. 186.
Rein Drive Tractors, Limited, Toronto, Ontario, Canada. Tractors. No. 135,053; Sept. 21; v. 278; p. 534.
Reiner, Max V., South Bethlehem, Pa. Telephone-receiver supports. No. 130,892; Apr. 20; v. 273; p. 623.
Reinhard, Marie A., New Orleans, La. Blended coffee. No. 131,920; May 25; v. 274; p. 886.
Reinhardt, George W., Co., Boston, Mass. House and roofing paints. No. 131,826; May 25; v. 274; p. 833.
Reinhardt, George W., Co., Boston, Mass. Compound for cleaning fabrics, glass, &c. No. 133,497; July 27; v. 276; p. 771.
Reinsberg, Adolph, Salt Lake City, Utah. Tires and tire-casings composed wholly or partially of rubber. No. 136,908; Nov. 9; v. 280; p. 382.
Reis, Benedict, New York, N. Y. Certain named garments. No. 129,527; Feb. 24; v. 271; p. 680.
Reis, Benedict, New York, N. Y. Cotton piece goods. No. 129,845; Mar. 9; v. 272; p. 367.
Reis, Robert, & Co., New York, N. Y. Knitted and textile underwear and hosiery. No. 135,784; Oct. 19; v. 279; p. 531.
Reiss, M., & Son, New York, N. Y. Petticoats, dress and under skirts. No. 132,498; June 22; v. 275; p. 822.
Reizenstein, Emile, Waltham, Mass. Plastic composition for modeling. No. 130,393; Apr. 20; v. 273; p. 623.
Reliable Chemical Co., New York, N. Y. Reconstructive medicinal tonic. No. 132,499; June 22; v. 275; p. 822.
Reliance Fur Dyeing, Inc., Paterson, N. J. Raw furs. No. 134,778; Sept. 14; v. 278; p. 359.
Reliance Manufacturing Company, Chicago, Ill. Work-shirts. No. 130,876; May 4; v. 274; p. 189.
Reliance Manufacturing Company, Chicago, Ill. Work-shirts. No. 133,791; Aug. 3; v. 277; p. 176.
Reliance Motor Truck Company, Appleton, Wis. Motor-trucks. No. 135,515; Oct. 12; v. 279; p. 345.
Reliance Wheel Co., Youngstown, Ohio. Pressed-steel disk wheels for automobiles and aeroplanes. No. 130,890; May 4; v. 274; p. 190.
Remiller Company, The, New York, N. Y. Toilet preparations. No. 131,588; May 18; v. 274; p. 607.
Remiller Company, The, New York, N. Y. Soaps, shaving preparations. No. 132,041; June 8; v. 275; p. 416.
Remington Arms Union Metallic Cartridge Co. Inc., Bridgeport, Conn.; Swanton, Vt.; Hoboken, N. J., and Ilion and New York, N. Y. Cartridges, shells, caps, primers, &c. No. 133,498; July 27; v. 276; p. 771.
Remington Arms Company, Inc. (See Remington Arms Union Metallic Cartridge Co., assignor.)
Remington Arms Union Metallic Cartridge Co. Inc., assignor to Remington Arms Company, Bridgeport, Conn.; Ilion, N. Y.; Swanton, Vt.; Hoboken, N. J., and New York, N. Y. Military and sporting rifles, shotguns, pistols, &c. No. 133,792; Aug. 3; v. 277; p. 176.
Remington Salt Company, Ithaca, N. Y. Salt. No. 135,874; Oct. 19; v. 279; p. 536.
Remschel, Theodore G., Chicago, Ill. Milk-powder. No. 138,333; Dec. 21; v. 281; p. 566.
Renaissance Corset Company Inc., New York, N. Y. Corsets. No. 137,383; Nov. 23; v. 280; p. 798.
Renaker, Leon, Winchester, Ky. Eggs. No. 131,218; May 4; v. 274; p. 190.
Renfrew Mfg. Co., Adams, Mass. Piece goods. No. 133,499; July 27; v. 276; p. 771.
Reno Flour Mills Company, Hutchinson, Kans. Wheat-flour. No. 128,831; Jan. 13; v. 270; p. 342.
Reno Flour Mills Company, Hutchinson, Kans. Wheat-flour. No. 129,389; Feb. 17; v. 271; p. 509.
Reo Motor Car Company, Lansing, Mich. Light motor-trucks. No. 134,322; Aug. 24; v. 277; p. 783.
Republic Box Company, Incorporated, New Orleans, La. Packing-boxes. No. 138,202; Dec. 14; v. 281; p. 406.
Republic Company, The, Pittsburgh, Pa. Louisiana moss for upholstery purposes. No. 132,789; June 29; v. 275; p. 1018.
Republic Distributing Corporation, New York, N. Y. Motion-picture films. No. 133,793; Aug. 3; v. 277; p. 176.
Republic Doll & Toy Corporation, New York, N. Y. Dolls. No. 128,499; Jan. 6; v. 270; p. 183.
Requa, Richard S., San Diego, Calif. Hollow tile. No. 136,599; Nov. 2; v. 280; p. 186.
Restoria Chemical Company, Phoenix, Ariz., and Kansas City, Mo. Medicine for blood diseases, &c. No. 128,500; Jan. 6; v. 270; p. 183.
Retail Grocers Syndicate, Inc., Worcester, Mass. Foods and ingredients of foods. No. 131,217; May 4; v. 274; p. 199.
Retona Products Company, Dayton, Ohio. Laxative tablets and tonic. No. 134,779; Sept. 14; v. 278; p. 359.
Reuben and Zuberman, Inc., New York, N. Y. Ladies' Waists. No. 133,794; Aug. 3; v. 277; p. 176.
Reus Bros. Co., The, Baltimore, Md. Engine piston-rings. No. 136,600; Nov. 2; v. 280; p. 187.
Reusche, L., & Company, New York, N. Y. Finishing for glass, china, &c. No. 128,832; Jan. 13; v. 270; p. 342.
Reusing, Andrew L., Akron, Ohio. Medicine combining the phosphates of calcium, sodium, and iron with phosphates of potassium and magnesium. No. 132,500; June 22; v. 275; p. 822.
Revell, Alexander H., & Co., Chicago, Ill. Wall or partition sections or units. No. 133,306; July 20; v. 276; p. 592.
Revere Motor Car Corporation, Logansport, Ind. Automobiles. Nos. 132,501–2; June 22; v. 275; p. 822.
Revere Rubber Company, Providence, R. I., and Chelsea, Mass. Shoe-soles of rubber and fiber. No. 130,394; Apr. 20; v. 273; p. 623.
Revere Rubber Company, Providence, R. I., and Chelsea, Mass. Belting. No. 137,384; Nov. 23; v. 280; p. 798.
Reversible Collar Company, Boston and Cambridge, Mass. Collars, cuffs, bosoms. No. 131,219; May 4; v. 274; p. 199.
Review Publishing Company, New York, N. Y. Monthly publication. No. 137,687; Nov. 30; v. 280; p. 1000.
Rex Metal Products Company, Brooklyn, N. Y. Bugles, trombones, whistles, &c. No. 136,601; Nov. 2; v. 280; p. 187.
Rex Paint Corporation, New York, N. Y. Ready-mixed paint, ready-mixed inside and outside enamels, colors in oil, and varnish. No. 133,795; Aug. 3; v. 277; p. 176.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Reynolds-Lindheim Cigar Company, Nashville, Tenn. Candy. No. 129,208; Jan. 27; v. 270; p. 616.
Reynolds, Marvin C., Oak Park, Ill. Cultured milk. No. 137,854; Dec. 7; v. 281; p. 198.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. Smoking and chewing tobacco. No. 130,879; May 4; v. 274; p. 189.
Reynolds, Wm. T., & Co., Poughkeepsie, N. Y. Butter, olive-oil, rice, dried fruits, coffee. No. 130,877; May 4; v. 274; p. 189.
Resnikove, Abraham, Sharon, Pa. Bread. No. 130,878; May 4; v. 274; p. 189.
Rhea Chemical Company, The, Denver, Colo. Antiseptic astringent deodorant. No. 132,503; June 22; v. 275; p. 822.
Rheinberger, Alois J., New York, N. Y. Shine-removing brushes. No. 133,025; July 6; v. 276; p. 203.
Rhoads, Edwin K., Philadelphia, Pa. Bedspreads, sheets, pillow-cases, sheeting. No. 131,220; May 4; v. 274; p. 199.
Rhoads, Edwin K., Philadelphia, Pa. Cotton goods in the piece. No. 138,551; Dec. 28; v. 281; p. 786.
Rhoads, J. E., & Sons, Philadelphia, Pa., and Wilmington, Del. Flat leather belting. No. 136,909; Nov. 9; v. 280; p. 382.
Rhodenbaugh, Isaiah F., Fort Wayne, Ind. Preparation for use in the treatment of piles. No. 131,590; May 18; v. 274; p. 607.
Rhodes, Metallic Packing Co., Inc., Shreveport, La. Metallic rod-packing. No. 134,529; Sept. 7; v. 278; p. 160.
Rhodes Metallic Pack. Co. Inc., Shreveport, La. Metallic rod-packing. No. 135,054; Sept. 21; v. 278; p. 534.
Rice, A. H., Company, Pittsfield, Mass. Silk thread and yarn. Nos. 135,516–7; Oct. 12; v. 279; p. 345.
Rice, A., & Company, Limited, St. Thomas, Exeter, England. collars, cuffs, day-shirts, &c. No. 138,334; Dec. 21; v. 281; p. 566.
Rice Cereal Company, New Haven, Ind. Wheat-flour. No. 130,228; Apr. 13; v. 273; p. 403.
Rice & Hutchins, Incorporated, Boston, Mass. Boots, shoes, and slippers. No. 130,880; May 4; v. 274; p. 189.
Rice & Hutchins, Incorporated, Boston, Mass. Leather of all kinds. No. 132,790; June 29; v. 275; p. 1018.
Rice, M., Company, Philadelphia, Pa. Nursery furniture. No. 133,501; July 27; v. 276; p. 771.
Rice-Stix Dry Goods Company, St. Louis, Mo. Cotton piece goods. No. 129,846; Mar. 9; v. 272; p. 367.
Rice-Stix Dry Goods Company, St. Louis, Mo. Knitted, netted and textile fabrics. No. 129,847; Mar. 9; v. 272; p. 367.
Rice-Stix Dry Goods Company, St. Louis, Mo. Cotton drills in the piece. No. 131,221; May 4; v. 274; p. 200.
Rice-Stix Dry Goods Company, St. Louis, Mo. Suspenders, garters, hose-supporters, &c. No. 130,881; May 4; v. 274; p. 189.
Rice-Stix Goods Company, St. Louis, Mo. Woven elastics in the piece. No. 131,592; May 18; v. 274; p. 607.
Rice-Stix Dry Goods Company, St. Louis, Mo. Neckties, cravats, mufflers, and collars. No. 133,307; July 20; v. 276; p. 192.
Rice-Stix Dry Goods Company, St. Louis, Mo. Handkerchiefs. No. 133,500; July 27; v. 276; p. 771.
Rice-Stix Dry Goods Company, St. Louis, Mo. Dresses and middy-blouses. No. 133,796: Aug. 3; v. 277; p. 166.
Rice-Stix Dry Goods Company, St. Louis, Mo. Trunks, traveling-bags, suitcases, and brief-cases. No. 134,780; Sept. 14; v. 278; p. 359.
Rich, Ralph E., Chicago, Ill. Centrifugal pumps. No. 128,501; Jan. 6; v. 270; p. 183.
Richards, A. B., Medicine Co. Inc., Sherman, Tex. Salve and liniment. No. 128,833; Jan. 13; v. 270; p. 342.
Richards, Arthur W., West Hartford, Conn. Compounds used for cleansing, polishing, and burnishing the surfaces of metal and glass. No. 135,055; Sept. 21; v. 278; p. 534.
Richards & Brennan Co., Randolph, Mass. Men's and women's boots and shoes. No. 130,562; Apr. 27; v. 273; p. 804.
Richards & Brennan Co., Randolph, Mass. Boots and shoes. No. 130,882; May 4; v. 274; p. 189.
Richards and Co. Incorporated, Boston, Mass. Pig-tin. No. 133,177; July 13; v. 276; p. 403.
Richards, William H., Knoxville, Tenn. Pneumatic cells for filling pneumatic tires. No. 136,910; Nov. 9; v. 280; p. 382.
Richardson Corporation, Rochester, N. Y. Non-alcoholic maltless syrup and beverage made therefrom. No. 134,781; Sept. 14; v. 278; p. 359.
Richardson Dry Goods Company, St. Joseph, Mo. Mens' and boys' outer shirts. No. 129,848; Mar. 9; v. 272; p. 367.
Richardson, Floyd H., Chicago, Ill. Honey. No. 136,169; Oct. 26; v. 279; p. 723.
Richardson, J. W., Foundry Metals Corporation, New York, N. Y. Metal castings. No. 135,518; Oct. 12; v. 279; p. 345.
Richardson-Phenix Co., The, Milwaukee, Wis. Mechanical lubricators and oiling devices. No. 131,589; May 18; v. 274; p. 607.
Richardson Silk Co., Chicago, Ill. Silk threads, cotton yarns and threads. No. 131,222; May 4; v. 274; p. 200.
Richmond-Chase Company, San Jose, Calif. Canned fruits and vegetables. Nos. 134,275–7; Aug. 24; v. 277; p. 779.
Richmond-Chase Company, San Jose, Calif. Canned fruits and vegetables. No. 134,530; Sept. 7; v. 278; p. 160.
Richmond, John S., Philadelphia, Pa. Women's and children's knitted and woven underwear. No. 129,061; Jan. 20; v. 270; p. 475.
Richter, F. Ad., & Co., New York, N. Y. Tonics. No. 128,834; Jan. 13; v. 270; p. 342.
Richter, F. Ad., & Co. of New York, New York, N. Y. Liniment for the treatment of rheumatism, neuralgia, &c. No. 129,528; Feb. 24; v. 271; p. 680.
Richter, F. Ad. & Co., New York, N. Y. Liniment. Nos. 131,593–4; May 18; v. 274; p. 607.
Richter, F. Ad. & Co., New York, N. Y. Medicinal preparations. No. 131,595; May 18; v. 274; p. 607.
Richter, F. Ad., & Co., New York, N. Y. Balsam for the treatment of constipation, wind-colic, &c. No. 136,170; Oct. 26; v. 279; p. 723.
Ricker, Howard H., Minneapolis, Minn. Liniment. No. 128,835; Jan. 13; v. 270; p. 342.
Rico Milk Products Company, East Troy, Wis. Condensed and evaporated milks and evaporated cream. No. 137,385; Nov. 23; v. 280; p. 798.
Rico Milk Products Company, East Troy, Wis. Evaporated cream. No. 138,335; Dec. 21; v. 281; p. 566.
Ridenour Garment Co., South Bend, Ind. Suspender-waists. No. 137,688; Nov. 30; v. 280; p. 1000.
Rider Wallis Dry Goods Co., Dubuque, Iowa, and New York, N. Y. Cotton and knit piece goods, muslins, &c. No. 133,308; July 20; v. 276; p. 592.
Ridgely Trimmer Company, The, Springfield, Ohio. Rack-exhibitors for wall-paper. No. 128,502; Jan. 6; v. 270; p. 183.
Ridgway, Herbert N., Revere, Mass. Amusement devices. No. 130,883; May 4; v. 274; p. 189.
Ridgway Company, The, New York, N. Y. Monthly magazine. No. 136,911; Nov. 9; v. 280; p. 382.
Ridley's, The, Old Chambers Street Candy Manufactory, New York, N. Y. Candies, chocolates, and bonbons. No. 137,386; Nov. 23; v. 280; p. 798.
Riegler, Julie H., San Antonio, Tex. Candy. No. 136,912; Nov. 9; v. 280; p. 382.
Riegler, Julie H., San Antonio, Tex. Candy. No. 137,058; Nov. 16; v. 280; p. 584.
Ries, Jacob, Bottling Works, Inc., Shakopee, Minn. Still and effervescent table-water. No. 129,172; Jan. 27; v. 270; p. 615.
Ries, Jacob, Bottling Works, Inc., Shakopee, Minn. Maltless beverages. No. 130,229; Apr. 13; v. 273; p. 403.
Ries, Jacob, Bottling Works, Inc., Shakopee, Minn. Beverages. No. 130,563; Apr. 27; v. 273; p. 804.
Ries, Jacob, Bottling Works, Inc., Shakopee, Minn. Non-alcoholic maltless non-cereal beverages. No. 133,797; Aug. 3; v. 277; p. 176.
Ries, Jacob, Bottling Works, Inc., Shakopee, Minn. Beverages. No. 136,602; Nov. 2; v. 280; p. 187.
Riesener Chocolate Co., San Francisco, Calif. Chocolate candy. No. 130,564; Apr. 27; v. 273; p. 804.
Rifkin, Abraham, Wilkes-Barre, Pa. Work-shirts and overalls. No. 135,056; Sept. 21; v. 278; p. 534.
Riggs, A. Arthur., Bellingham, Wash. Alkaline antiseptic, deodorizing, and non-irritating solution for the mouth, teeth, &c. No. 129,849; Mar. 9; v. 272; p. 367.
Riker Company, Newark, N. J. Jewelry. No. 129,850; Mar. 9; v. 272; p. 367.
Riley, James W., Los Angeles, Calif. Candies. No. 135,519; Oct. 12; v. 279; p. 345.
Rindsfoos, Charles S., New York, N. Y. Directories of stores and shops, in book form. No. 133,502; July 27; v. 276; p. 771.
Ringler, Geo., & Co., New York, N. Y. Non-intoxicating beverages. No. 128,836; Jan. 13; v. 270; p. 342.
Ripley, Edward, & Son, Ltd., Bradford, England. Rain-coats. No. 130,884; May 4; v. 274; p. 189.
Ripley, Edward, & Son., Ltd., Bradford, England. Piece goods. 135,309; Sept. 28; v. 278; p. 704.
Rising, B. D., Paper Company, Housatonic, Mass. Bond, linen, ledger, and writing papers generally. No. 129,952; Mar. 9; v. 272; p. 370.
Ritchie-Wertz Manufacturing Company, The, Dayton, Ohio. Toy airplanes. No. 135,057; Sept. 21; v. 278; p. 534.
Rite Mfg. Co., Cincinnati, Ohio. Middy-blouses and middy-dresses. No. 135,520; Oct. 12; v. 279; p. 345.
Rite Mfg. Co., Cincinnati, Ohio. Middy-blouses and middy-dresses. No. 136,171; Oct. 26; v. 279; p. 723.
Ritter Bros., New York, N. Y. Ladies' handbags. No. 134,782; Sept. 14; v. 278; p. 359.
Ritter Bros., New York, N. Y. Ladies' handbags. No. 135,058; Sept. 21; v. 278; p. 534.
Ritter Brothers, New York, N. Y. Ladies' coats and suits. No. 130,885; May 4; v. 274; p. 189.
Ritter Hosiery Company, Fleetwood, Pa. Men's hosiery. No. 130,886; May 4; v. 274; p. 189.
Ritzwoller & Co., Inc., New York, N. Y. Children's dresses. No. 134,783; Sept. 14; v. 278; p. 359.

Digitized by Google

Riverside Boiler Works, Inc., Cambridgeport, Mass. Tanks and tanks for hot water. Nos. 130,887–8; May 4; v. 274; pp.189–90.

Riverside Boiler Works, Inc., Cambridgeport, Mass. Tanks and tanks for hot water known as stand or range boilers. No. 133,798; Aug. 3; v. 277; p. 176.

Riverside Hosiery Mills, Inc., Haw River, N. C. Hosiery for women and children. No. 136,172; Oct. 26; v. 279; p. 724.

Riverside Mill Company, Reno, Nev. Wheat-flour. No. 135,310; Sept. 28; v. 278; p. 704.

Rivoli Silk Hosiery Co., New York, N. Y. Hosiery and underwear. No. 134,323; Aug. 24; v. 277; p. 783.

Roach, John S., Chicago, Ill. Gargle and corn-plasters. No. 136,603; Nov. 2; v. 280; p. 187.

Roach, Robert C., Kansas City, Mo. Mixture or compound of milk and vegetable fat. No. 136,913; Nov. 9; v. 280; p. 382.

Roach, W. R., & Co., Hart, Mich. Food products. No. 133,799; Aug. 3; v. 277; p. 176.

Roanoke City Mills, Roanoke, Va. Wheat-flour. No. 129,062; Jan. 20; v. 270; p. 475.

Roanoke City Mills, Roanoke, Va. Wheat-flour. No. 130,891; May 4; v. 274; p. 190.

Roanoke City Mills, Roanoke, Va. Self-rising wheat-flour. No. 130,892; May 4; v. 274; p. 190.

Robert, Joseph, Paris, France. Medicinal preparations. No. 131,596; May 18; v. 274; p. 607.

Roberts, Charles D., Pittsburgh, Pa. Metallic pen-points. Nos. 136,914–15; Nov. 9; v. 280; p. 382.

Roberts, Charles D., Pittsburgh, Pa. Metallic pen-points. Nos. 137,855–6; Dec. 7; v. 281; p. 198.

Roberts, Russell, Concord, N. C. Medicine and a salve for ailments common to animals and fowl. No. 135,785; Oct. 19; v. 279; p. 531.

Roberts, Ward P., Milford, Mass. Cigars. Nos. 133,503–4; July 27; v. 276; p. 771.

Robertson, James, & Sons, Preserve Manufacturers, Limited, Paisley, Scotland. Marmalade. No. 135,311; Sept. 28; v. 278; p. 704.

Robertson Lubricants Company, Philadelphia, Pa. Lubricating oils and greases. No. 136,916; Nov. 9; v. 280; p. 382.

Robeson Cutlery Co., The, Rochester, N. Y. Carving sets. No. 138,098; Dec. 14; v. 281; p. 400.

Robin Hood Mills, Limited, Moose Jaw, Saskatchewan, Canada. Wheat-flour. No. 134,431; Aug. 31; v. 277; p. 974.

Robin, Jacob I., New York, N. Y. Gas-heaters. No. 134,432; Aug. 31; v. 277; p. 974.

Robinola Phonograph Co., St. Louis, Mo. Phonographs. No. 137,388; Nov. 23; v. 280; p. 798.

Robins, Max, Chicago, Ill. Tooth-paste. No. 129,529; Feb. 24; v. 271; p. 680.

Robins, Max, Chicago, Ill. Medicinal and pharmaceutical preparations. No. 138,499; Dec. 28; v. 281; p. 783.

Robinson, Clinton S., Chicago, Ill., assignor to Aladdin Products Company. Dyes combined with soap. No. 128,503; Jan. 6; v. 270; p. 184.

Robinson, George T., South Portland, Me. Puzzles. No. 130,893; May 4; v. 274; p. 190.

Robinson & Gollnber, New York, N. Y. Handkerchiefs. No. 135,521; Oct. 12; v. 274; p. 345.

Robinson, Joseph, Washington, D. C. Steam and air pipe couplings for railway-cars. No. 137,059; Nov. 16; v. 280; p. 584.

Robinson Milling Co., Salina, Kans. Wheat-flour. No. 130,230; Apr. 13; v. 273; p. 403.

Robinson Milling Co., The, Salina, Kans. Wheat-flour. No. 130,894; May 4; v. 274; p. 190.

Robinson, Thomas F., Minneapolis, Minn. Automatic steering device for motor-vehicles. No. 132,042; June 8; v. 275; p. 416.

Robischon, E. W., Inc., New York, N. Y. Men's and women's hosiery of wool, cotton, silk, &c. No. 135,312; Sept. 28; v. 278; p. 704.

Rocco Perretta & Company, Utica, N. Y. Cotton salad-oil. No. 138,086; Dec. 14; v. 281; p. 400.

Roche, John, assignor to himself and J. Coonan, Buffalo, N. Y. Cream substitute. No. 128,504; Jan. 6; v. 270; p. 184.

Rochester Electrical Supply Co., Rochester, N. Y. Laundry washing-machines. No. 135,786; Oct. 19; v. 279; p. 531.

Rochester Germicide Company, Rochester, N. Y. Disinfectants, insecticides, and germicides. No. 134,531; Sept. 7; v. 278; p. 160.

Rochester Germicide Company, Rochester, N. Y. Liquid soap, sweeping compound, metal-polish, &c. No. 135,787; Oct. 19; v. 279; p. 531.

Rochester Railway and Light Company, Rochester, N. Y. Fuel-oils. No. 135,522; Oct. 12; v. 279; p. 345.

Rochester Washing Machine Corp., Rochester, N. Y. Clothes-washing machines. No. 133,800; Aug. 3; v. 277; p. 176.

Rochester Ice Cream Company, Rochester, N. Y. Ice-cream. No. 138,500; Dec. 28; v. 281; p. 783.

Rock Island Stove Company, Rock Island, Ill. Warm-air furnace, &c. No. 132,043; June 8; v. 275; p. 416.

Rockfall Cigar Company, New York, N. Y. Tobacco, cigars, &c. No. 128,505; Jan. 6; v. 270; p. 184.

Rockford Manufacturing Company, Rockford, Tenn. Twine and tufts used in tying mattresses, &c. No. 136,604; Nov. 2; v. 280; p. 187.

Rockland and Rockport Lime Corporation, Rockland, Me. Chemical calcium hydrated lime. No. 138,501; Dec. 28; v. 281; p. 783.

Rodenberg, M. S., Co., Providence, R. I. Neck and watch chains and swivels. No. 129,851; Mar. 9; v. 272; p. 367.

Rodenberg, M. S. Co., Providence, R. I. Neck-chains, watch-chains, and swivels for such chains. No. 130,105; Apr. 6; v. 273; p. 181.

Rodent Exterminator Laboratories, Chicago, Ill. Preparation for exterminating rodents. No. 128,839; Jan. 13; v. 270; p. 343.

Rodgers Hosiery Company, Incorporated, Philadelphia, Pa. Hosiery. No. 133,026; July 6; v. 276; p. 203.

Rodgers Hosiery Company, Incorporated, Philadelphia, Pa. Hosiery. No. 133,801; Aug. 3; v. 277; p. 177.

Rodriquez, Romon, Tampa, Fla. Polish for cleaning glass, jewelry, and metals. No. 132,504; June 22; v. 275; p. 822.

Roe, A. V., & Co. Ltd., Manchester, England. Turnbuckles, metal name-plates, &c. Nos. 129,209–10; Jan. 27; v. 270; p. 616.

Roe, A. V., & Co., Ltd., Manchester, England. Cover-clips, strut-sockets, &c., for aircraft, aircraft-seats. No. 130,231; Apr. 13; v. 273; p. 403.

Roe, A. V., & Co., Ltd., Manchester, England. Aeroplanes and parts, air-screws, &c. No. 130,395; Apr. 20; v. 273; p. 623.

Roe, A. V., & Co., Ltd., Manchester, England. Supplies for aviators. No. 133,178; July 13; v. 276; p. 403.

Roe, A. V., & Co., Ltd., Manchester, England, Aviators' harness and belts and coupling attachments for same. No. 133,505; July 27; v. 276; p. 771.

Roe Metal Sandal Company, Milwaukee, Wis. Metal sandals. No. 138,336; Dec. 21; v. 281; p. 566.

Roehrs, Julius, Co., Rutherford, N. J. Annual catalogue. No. 136,917; Nov. 9; v. 280; p. 382.

Roelofsma, Toni, New York, N. Y. Smocks, dresses, skirts, &c. No. 137,689; Nov. 30; v. 280; p. 1000.

Roemer, Ed. B., Zanesville, Ohio. Overalls, jackets, jumpers, and work-clothes. No. 132,233; June 15; v. 275; p. 619.

Roessel, Louis (& Co.) Inc., New York, N. Y. Silk piece goods. No. 131,827; May 25; v. 274; p. 883.

Roessel, Louis, & Co., New York, N. Y. Light-weight woven silk and cotton fabrics for millinery purposes. No. 134,073; Aug. 10; v. 277; p. 390.

Roethlisberger & Co. Inc., New York, N. Y. Cheese. No. 132,044; June 8; v. 275; p. 416.

Rogers Brown & Company, Seattle, Wash. Foods. No. 137,131; Nov. 23; v. 280; p. 790.

Rogers Company, Tacoma, Wash. Coffee. No. 130,896; Apr. 20; v. 273; p. 623.

Rogers, Francis, & Sons, New York, N. Y. Coffee. No. 138,099; Dec. 14; v. 281; p. 400.

Rogers, Hennessey & Jenkins, Boston, Mass. Cotton and wool blankets. No. 129,852; Mar. 9; v. 272; p. 367.

Rogers, Hennessey & Jenkins, Boston, Mass. Quilts, cotton, and wool blankets, and traveling-rugs. No. 133,309; July 20 v. 276; p. 592.

Rogers' Journal Packing Company, Chicago, Ill. Bales or packages of journal-packing. No. 129,853; Mar. 9; v. 272; p. 367.

Rogers & Madison Trunk Corporation, Petersburg, Va. Trunks, suitcases, traveling-bags, and handbags. No. 134,784; Sept. 14; v. 278; p. 359.

Rogers Milk Corporation, Pulaski, N. Y. Condensed milk. No. 135,523; Oct. 12; v. 279; p. 345.

Rogers Peet Company, New York, N. Y. Men's hats and caps. No. 137,387; Nov. 23; v. 280; p. 798.

Rogers Peet Company, New York, N. Y. Men's and boy's collars. No. 138,502; Dec. 28; v. 281; p. 783.

Rogers, S. A., Co., Newark, N. J. Scratch food for poultry, baby-chick mash, &c. No. 134,074; Aug. 10; v. 277; p. 390.

Rogers, S. A., Co., Newark, N. J. Flower and vegetable seeds. No. 136,173; Oct. 26; v. 279; p. 724.

Rohm & Haas Company, Philadelphia, Pa. Anhydrous sodium hydrosulfite. No. 131,598; May 18; v. 274; p. 607.

Rohm & Haas Company, Philadelphia, Pa. Chemical used for tanning hides. No. 131,599; May 18; v. 274; p. 607.

Rohm & Haas Company, Philadelphia, Pa. Sulfoxalate of sodium formaldehyde. No. 131,600; May 18; v. 274; p. 608.

Rohr, Jesse F., Buffalo, N. Y. Hosiery. No. 135,788; Oct. 19; v. 279; p. 531.

Rohrman-Cooper Company, Chicago, Ill. Ventilators for roofs and skylights. No. 128,837; Jan. 13; v. 270; p. 342.

Rollaway Company, The, Toledo, Ohio. Internal-combustion motors. No. 133,310; July 20; v. 276; p. 592.

Rolls-Royce, Limited, Derby, England. Internal-combustion engines. No. 130,232; Apr. 13; v. 273; p. 403.

Romaro Machine & Tool Co., Inc., New York, N. Y. Wrenches. No. 138,100; Dec. 14; v. 281; p. 400.

Romeo, F., & Co. Inc., New York, N. Y. Canned tuna fish, canned tomatoes, and olive-oil. No. 135,524; Oct. 12; v. 279; p. 345.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Rommel, Louis, New York, N. Y. Phonographs, phonograph records, sound-boxes, and needles. No. 132,234; June 15; v. 275; p. 620.
Romort Manufacturing Company, Oakfield, Wis. Automobile, &c., accessories. No. 129,211; Jan. 27; v. 270; p. 616.
Romul Manufacturing Company, Inc., New York, N. Y. Carbureters, mechanical carbon-removers, air-traps, &c. No. 137,690; Nov. 30; v. 280; p. 1000.
Ronda, Joseph W., now by change of name Joseph W. Rowe, Cincinnati, Ohio. Salve for treatment of severe colds, pneumonia, &c. No. 136,919; Nov. 9; v. 280; p. 382.
Roofbestos Manufacturing Co., St. Louis, Mo. Prepared roofing. No. 131,921; May 25; v. 274; p. 836.
Rook, James H., Company, Chicago, Ill. Transparent window-signs. No. 129,854; Mar. 9; v. 272; p. 367.
Root, A. I., Co., The, Medina, Ohio. Comb and extracted honey. No. 138,101; Dec. 14; v. 281; p. 400.
Root Playing Card Co., Chicago, Ill. Playing-cards. No. 133,027; July 6; v. 276; p. 203.
Ropkins, Edgar L., Hartford, Conn. Non-intoxicating cereal beverages. No. 133,028; July 6; v. 276; p. 203.
Rose, D. E., Trunk Company, Topeka, Kans. Trunks. No. 129,063; Jan. 20; v. 270; p. 475.
Rose, Leon R., New Haven, Conn. Powder-puff. No. 135,062; Sept. 21; v. 278; p. 534.
Rose Rogers Co., Dallas, Tex. Work-pants, overalls, and jumpers. No. 129,390; Feb. 17; v. 271; p. 509.
Rosefield, John B., Oakland, Calif. Animal foods. No. 138,102; Dec. 14; v. 281; p. 400.
Rosen, Paul, Orange, N. J. Candy. No. 136,605; Nov. 2; v. 280; p. 187.
Rosen, Raymond, Philadelphia, Pa. Pellets of metal used in the practice of dentistry. No. 130,004; Mar. 16; v. 272; p. 540.
Rosenbaum Brothers, Salt Lake City, Utah. Overalls for men and boys. No. 134,785; Sept. 14; v. 278; p. 359.
Rosenbaum, Samuel, & Sons Company, Kalamazoo, Mich. Trousers. No. 130,565; Apr. 27; v. 273; p. 804.
Rosenberg Bros. & Co., Rochester, N. Y. Men's coats, vests, pants, and overcoats. No. 130,566; Apr. 27; v. 273; p. 804.
Rosenberg Bros. & Co., Rochester, N. Y. Men's coats, vests, pants, and overcoats. Nos. 131,223–26; May 4; v. 274; p. 200.
Rosenberg Bros. & Co., Rochester, N. Y. Men's coats, vests, pants, and overcoats. Nos. 133,802–3; Aug. 3; v. 277; p. 177.
Rosenberg Bros., St. Louis, Mo. Woolen cloth for tailoring purposes. No. 134,075; Aug. 10; v. 277; p. 390.
Rosenberg Bros. & Co., Rochester, N. Y. Men's coats, vests, pants, and overcoats. Nos. 135,525–6; Oct. 12; v. 279; p. 345.
Rosenberg Bros., New York, N. Y. Fur coats, scarfs, and muffs. No. 138,503; Dec. 28; v. 281; p. 784.
Rosenblum & Kern, New York, N. Y. Memorandum-books. No. 135,063; Sept. 21; v. 278; p. 534.
Rosenblum, Samuel, Brooklyn, N. Y. Fresh onions, potatoes, turnips, and carrots. No. 134,433; Aug. 31; v. 277; p. 974.
Rosenbrook, August C., Madison, Wis. Valve-lifting tools for internal-combustion engines. No. 130,397; Apr. 20; v. 273; p. 623.
Rosenfeld, L. E., & Co., Inc., New York, N. Y. Ladies', misses', and juniors' coats, suits, skirts, &c. No. 136,606; Nov. 2; v. 280; p. 187.
Rosenstein, J., New York, N. Y. Wheat-flour. No. 128,838; Jan. 13; v. 270; p. 343.
Rosenstein, Jacob, New York, N. Y. Wheat-flour. No. 129,212; Jan. 27; v. 270; p. 616.
Rosenstein, Jacob, New York, N. Y. Wheat-flour. No. 131,227; May 4; v. 274; p. 200.
Rosenthal, Charles, New York, N. Y. Sanitary paper drinking-cups. No. 133,804; Aug. 3; v. 277; p. 177.
Rosenthal, Maurice, San Francisco, Calif. Coffee. No. 135,789; Oct. 19; v. 279; p. 531.
Rosenzweig, Pearl, Chicago, Ill. Polishing material. No. 138,504; Dec. 28; v. 281; p. 784.
Rosin & Turpentine Export Company, New York, N. Y., and Savannah, Ga. Rosin. Nos. 135,313–24; Sept. 28; v. 278; p. 704.
Rosman & Laveson, Philadelphia, Pa. Boots and shoes, 129,213; Jan. 27; v. 270; p. 616.
Rosner & Kanner, New York, N. Y. Chocolates. No. 136,918; Nov. 9; v. 280; p. 382.
Ross, George W., New York, N. Y. Ointment for the growth and darkening of the eyebrows and eyelashes. No. 134,434; Aug. 31; v. 277; p. 974.
Ross, Sydney, Company Inc., The, New York, N. Y. Toilet soap. No. 137,488; Nov. 23; v. 280; p. 801.
Ross, W. A., & Sons, Limited, Belfast, Ireland. Mineral and aerated waters, natural and artificial. No. 131,366; May 11; v. 274; p. 401.
Ross, Warren A., Haverhill, Mass. Electric hair-singeing device. No. 138,103; Dec. 14; v. 281; p. 400.
Rossendale-Reddaway Belting & Hose Co., Newark, N. J. Belting. No. 129,855; Mar. 9; v. 272; p. 367.
Rossendale-Reddaway Belting & Hose Co., Newark, N. J. Canvas belting. No. 134,532; Sept. 7; v. 278; p. 161.
Rossendale-Reddaway Belting & Hose Co., The, Newark, N. J. Hair, cotton woven, stitch-canvas, and rubber belting. No. 135,790; Oct. 19; v. 279; p. 531.
Rossman Brothers, New York, N. Y. Cotton goods in the piece and cotton and silk goods in the piece. No. 135,325; Sept. 28; v. 278; p. 705.
Roth, Charles, New York, N. Y. Ladies' hats. No. No. 128,506; Jan. 6; v. 270; p. 184.
Roth, Charles, New York, N. Y. Ladies' hats. No. 132,506; June 22; v. 275; p. 822.
Roth Tobacco Company, Cape Girardeau, Mo. Smoking and chewing tobacco. No. 136,607; Nov. 2; v. 280; p. 187.
Rothman, Eugene, New York, N. Y. Watches, clocks, alarm-clocks. No. 130,895; May 4; v. 274; p. 100.
Rothschild, A. H., New York, N. Y. Waterproofing plastic or semiplastic compound. No. 131,922; May 25; v. 274; p. 836.
Rothschild, John, San Francisco, Calif. Soap. No. 129,856; Mar. 9; v. 272; p. 367.
Rothschild, Sig. I., New York, N. Y. Dolls and toys. No. 135,326; Sept. 28; v. 278; p. 705.
Roulette, J. C., and Sons, Hagerstown, Md. Underwear, rubber overshoes, hosiery. No. 129,064; Jan. 20; v. 270; p. 475.
Roulette, J. C., and Sons, Hagerstown, Md. Underwear. No. 129,214; Jan. 27; v. 270; p. 616.
Roulston, Thos., Inc., Brooklyn, N. Y. Bread. No. 130,896; May 4; v. 274; p. 190.
Rowbottom, Thos., Co., New York, N. Y. Cotton and linen embroideries in the piece. No. 133,789; Aug. 3; v. 277; p. 176.
Rowe Manufacturing Co., Galesburg, Ill. Gates constructed wholly or partially of wood. No. 132,235; June 15; v. 275; p. 620.
Roxbury Carpet Company, Boston, Mass. Carpets. No. 132,236; June 15; v. 275; p. 620.
Roxford Knitting Company, Philadelphia, Pa. Men's knitted and woven underwear. No. 137,389; Nov. 23; v. 280; p. 798.
Roy, Laurent, Manchester, N. H. Cereal maltless beverage. No. 133,449; July 27; v. 276; p. 770.
Roy Watch Case Company, New York, N. Y. Watch-cases. No. 133,029; July 6; v. 276; p. 203.
Roy, William D., Belleview, Tenn. Playing-cards. No. 133,030; July 6; v. 276; p. 203.
Royal Card & Paper Company, New York, N. Y. Typewriting and printing paper. No. 129,857; Mar. 9; v. 272; p. 367.
Royal Cone Co., Detroit, Mich. Ice-cream cones. No. 132,045; June 8; v. 275; p. 416.
Royal Embroidery Works, Naday & Fleischer, New York, N. Y. Cotton voile. No. 129,858; Mar. 9; v. 272; p. 367.
Royal Embroidery Works, Naday & Fleischer, New York, N. Y. Artificial-silk fabrics. No. 131,228; May 4; v. 274; p. 200.
Royal Embroidery Works, Naday & Fleischer, New York, N. Y. Artificial-silk fabrics. No. 136,280; Oct. 29; v. 279; p. 726.
Royal Packing Co., Los Angeles, Calif. Pimientos morrones. No. 137,857; Dec. 7; v. 281; p. 198.
Royal Pattern Co., Inc., The, New York, N. Y. Quarterly publication. No. 136,608; Nov. 2; v. 280; p. 187.
Royal Specialty Co., New York, N. Y. Bouillon-tablets. No. 138,104; Dec. 14; v. 281; p. 400.
Royal Thread Co., The, New York, N. Y. Thread. No. 137,691; Nov. 30; v. 280; p. 1000.
Royall Coffee Company, The, Corsicana, Tex. Coffee and tea. No. 134,076; Aug. 10; v. 277; p. 390.
Royoleum Co-Operative Mfg. Co., Monticello, Ind. Remedies and sanitary products. No. 129,859; Mar. 9; v. 272; p. 367.
Roziene, Robert P., Phoenix, Ariz., New York, N. Y., and Los Angeles, Calif. Milk of magnesia and mineral oil. No. 136,174; Oct. 26; v. 279; p. 724.
Rub-Tex Organization Company, Kenton, Ohio. Fibrous rubber floor-board mats, running-board and step mats for automobiles. No. 134,533; Sept. 7; v. 278; p. 161.
Rubary Company, Cleveland, Ohio. Aeroplanes and component parts thereof. No. 132,046; June 8; v. 275; p. 416.
Rubberized Sheeting & Specialty Co., Inc., New York, N. Y. Sanitary bloomers. No. 137,692; Nov. 30; v. 280; p. 1000.
Rubens, Leon F., Philadelphia, Pa. Clothing. No. 133,805; Aug. 3; v. 277; p. 177.
Ruch-Drompp Grocery Co., Logansport, Ind. Bread. No. 134,077; Aug. 10; v. 277; p. 390.
Ruch, Hollister M. J., Syracuse, N. Y. Card game. No. 130,567; Apr. 27; v. 273; p. 804.
Rudd, Anne H., St. Louis, Mo. Pharmaceutical preparations. No. 131,601; May 18; v. 274; p. 608.
Rudin, Emil A., Toronto, Ontario, Canada. Package-binders and parts thereof. No. 130,106; Apr. 6; v. 273; p. 181.
Rueckheim Bros. & Eckstein, Chicago, Ill. Chocolate candies. No. 130,897; May 4; v. 274; p. 190.
Ruefly Bros., Dover, Ohio. Coffee. No. 130,233; Apr. 13; v. 273; p. 404.
Rueping, Fred, Leather Co., Fond du Lac, Wis. Shoe and glove leathers. No. 135,327; Sept. 28; v. 278; p. 705.
Rueppel-Jones Importing Company, Inc., New York, N. Y. Sardines. No. 130,568; Apr. 27; v. 273; p. 804.
Rueppel-Jones Importing Company, Inc., New York, N. Y. Sardines. No. 135,791; Oct. 19; v. 279; p. 531.

Ruff's, A., Sons, Butler, Pa. Boots and shoes. No. 130,898; May 4; v. 274; p. 190.
Rugeley, Alexander A., Wharton, Tex. Liquid preparation for the treatment of rheumatism. No. 129,891; Feb. 17; v. 271; p. 509.
Ruggles, Frank W., Alma, Mich. Motor-trucks. No. 131,229; May 4; v. 274; p. 200.
Rumford Chemical Works, Providence, R. I. Baking-powder. No. 134,786; Sept. 14; v. 278; p. 359.
Rummell Manufacturing Works, Findlay, Ohio. Spark-plugs. No. 133,031; July 6; v. 276; p. 203.
Runyan Chemical Products Co., Omaha, Nebr. Preparation for cleaning and scrubbing and preparation for washing the skin. No. 129,860; Mar. 9; v. 272; p. 368. p. 368.
Rupe, Veazy P., Indianapolis, Ind. Antiseptic and anesthetic gargle. No. 132,507; June 22; v. 275; p. 822.
Rupert, A., Company, Inc., Portland, Oreg. Canned fruits and beets. No. 131,923; May 25; v. 274; p. 836.
Rupert, A., Company, Inc., Portland, Oreg. Canned fish—namely, canned salmon. No. 132,791; June 29; v. 275; p. 1018.
Rupert, A., Company, Inc., Portland, Oreg. Canned foods. No. 132,792; June 29; v. 275; p. 1018.
Rupert, A., Company, Inc., Portland, Oreg. Fruit preserves, jam, and canned salmon. No. 134,078; Aug. 10; v. 277; p. 390.
Rupert, A., Company, Inc., Portland, Oreg. Canned fruits, vegetables, and fish. No. 134,435; Aug. 31; v. 277; p. 974.
Ruppert, Jacob, New York, N. Y. Near beer. No. 128,507; Jan. 6; v. 270; p. 184.
Rusconi, Louis, Wahtoke, Calif. Fresh grapes. No. 130,234; Apr. 13; v. 273; p. 404.
Rusconi, Louis, Wahtoke, Calif. Fresh grapes. No. 130,899; May 4; v. 274; p. 190.
Rusconi, Louis, Wahtoke, Calif. Fresh grapes. No. 132,793; June 29; v. 275; p. 1018.
Rushworth, Finch, Fenay Bridge, near Huddersfield England. Cloths and stuffs of wool, &c. No. 128,508; Jan 6; v. 270; p. 184.
Russ, Evangelist F., Chicago, Ill. Salve, for eczema, scrofula, itch, &c. No. 138,338; Dec. 21; v. 281; p. 566.
Russ Manufacturing Company, The, Cleveland, Ohio. Soda-fountains and soda-water carbonators. No. 134,190; Aug. 17; v. 277; p. 582.
Russell & Co. Inc., Cambridge, Mass. Candy. No. 137,390; Nov. 23; v. 280; p. 798.
Russell & Company, Incorporated, Cambridge, Mass. Candy. No. 134,278; Aug. 24; v. 277; p. 779.
Russell, Edward T., & Co., Inc., Boston, Mass. Canned sardines. No. 136,609; Nov. 2; v. 280; p. 187.
Russell Jobbers' Mills, Oklahoma, Okla. Peanut-butter, vinegar, rice, &c. No. 131,280; May 4; v. 274; p. 200.
Russell, John, Cutlery Company, Turners Falls, Mass. Pocket, table, butcher, and trade knives. Nos. 133,806–7; Aug. 3; v. 277; p. 177.
Russell Manufacturing Company, The, Middletown, Conn. Suspenders. No. 135,792; Oct. 19; v. 279; p. 531.
Russell Sales Co., Newark, N. J. Automobile-steering-post-locking devices. No. 130,398; Apr. 20; v. 273; p. 623.
Russell, Thos., & Son, Liverpool, England. Watches and clocks. No. 130,900; May 4; v. 274; p. 190.
Russia Cement Company, Gloucester, Mass. Polish, cleaning, and preserving preparations for stoves. No. 134,787; Sept. 14; v. 278; p. 359.
Russian Tea Room & Art Shop, Chicago, Ill. Cigarettes. Nos. 133,311–13; July 20; v. 276; p. 592.
Russo, Frank, and Antonio Cavallare, Rivesville, W. Va. Preparation for the treatment of rheumatism. No. 136,175; Oct. 26; v. 279; p. 724.
Rust-Knott Mfg. Co., Toledo, Ohio. Drying liquid composition in the nature of a lacquer or paint. No. 132,237; June 15; v. 275; p. 620.
Rustman, Harm H., Flanagan, Ill. Medicine for certain named diseases. No. 135,793; Oct. 19; v. 279; p. 531.
Ruth, Benjamin F., Reading, Pa. Paints and painters' materials. No. 137,060; Nov. 16; v. 280; p. 584.
Ruttenber, Arwood J., Jamestown, N. Y. Silver cleaner and polish, and radiator-cleaner. No. 136,176; Oct. 26; v. 279; p. 724.
Ruttenberg, Sam, Chicago, Ill. Caramel bars. No. 128,509; Jan. 6; v. 270; p. 184.
Ryan-Eastman Co., The, Cedar Rapids, Iowa. Carbon-removers. No. 132,794; June 29; v. 275; p. 1018.
Ryan Fruit Company, Seattle, Wash. Fresh citrus fruits. No. 130,399; Apr. 20; v. 273; p. 623.
Rybowski, Martin D., Cleveland, Ohio. Stomach-tonic. No. 132,795; June 29; v. 275; p. 1018.
Rye-Ola Company, Birmingham, Ala. Ginger-ale. No. 131,602; May 18; v. 274; p. 608.
Rynehart, Henry M., Co., Brooklyn, N. Y. Shaving-brushes. No. 137,391; Nov. 23; v. 280; p. 798.
Rythmodik Music Corporation, Belleville, N. J., and New York, N. Y. Note-sheets for player-pianos, &c. No. 129,065; Jan. 20; v. 270; p. 475.
S. D. Vansickle Estate, Ashland, Pa. Preparation for the treatment of certain named ailments. No. 132,848; June 29; v. 275; p. 1020.
S. & P. Manufacturing Co. Inc., New York, N. Y. Valve-grinding compounds. No. 131,231; May 4; v. 274; p. 200.
Saberton Mfg. Co., Tampa, Fla. Soap. No. 128,840; Jan. 13; v. 270; p. 348.
Saberton Mfg. Co., Tampa, Fla. Shampoos. No. 129,861; Mar. 9; v. 272; p. 368.
Saberton Mfg. Co., Tampa, Fla. Medicated soap. No. 131,603; May 18; v. 274; p. 608.
Saberton Mfg. Co., Tampa, Fla. Soap. No. 136,920; Nov. 9; v. 280; p. 382.
Safe-Cabinet & Company, The, Marietta, Ohio. Document-files. No. 130,901; May 4; v. 274; p. 190.
Safepack Mills, Boston, Mass. Composition roofing in rolls and composition roofing shingles. Nos. 130,400–1; Apr. 20; v. 273; p. 623.
Safety Equipment Company, The, Cleveland, Ohio. Trestles of the portable variety. No. 134,788; Sept. 14; v. 278; p. 359.
Safety Night Light Company, Brooklyn, N. Y. Candles. No. 132,796; June 29; v. 275; p. 1019.
Safronik, Teddey, Buchanan, Saskatchewan, Canada. Salve for bruises, pimples, eczema, and all skin diseases. No. 134,789; Sept. 14; v. 278; p. 359.
Sainberg, Louis, New York, N. Y. Desk-pads and pad-corners, sand and ordinary paper, &c. No. 128,510; Jan. 6; v. 270; p. 184.
Salem Manufacturing Company, Salem, N. J., and New York, N. Y. Imitation linoleum; No. 131,828; May 25; v. 274; p. 833.
Salembier & Clay, Inc., New York, N. Y. Silk crape piece goods. No. 131,944; June 1; v. 275; p. 199.
Saler, Samuel, Philadelphia, Pa. Tub-butter. No. 132,238; June 15; v. 275; p. 620.
Salina Canning & Packing Co., San Jose, Calif. Tomato pulp. No. 129,862; Mar. 9; v. 272; p. 368.
Salisbury, Howard F., Providence, R. I. Yarn. No. 130,569; Apr. 27; v. 273; p. 804.
Salisbury & Satterlee Co., Minneapolis, Minn. Mattresses. No. 134,790; Sept. 14; v. 278; p. 359.
Salisbury & Satterlee Co., Minneapolis, Minn. Mattresses, metal beds, couches, cribs, &c. No. 134,791; Sept. 14; v. 278; p. 359.
Salomon Stern, Ltd. of America, New York, N. Y. Women's knitted underwear and hosiery. No. 129,530; Feb. 24; v. 271; p. 680.
Salts Textile Mfg. Co., The, Bridgeport, Conn. House organ published intermittently. No. 129,868; Mar. 9; v. 272; p. 368.
Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Pile fabrics in the piece. Nos. 136,610–12; Nov. 2; v. 280; p. 187.
Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Women's, children's, and infants' coats, cloaks, wraps, &c. Nos. 137,433–4; Nov. 23; v. 280; p. 799.
Salt's Textile Manufacturing Company, The, Bridgeport, Conn., Darby, Pa., and New York, N. Y. Cotton, worsted, mohair, and silk thread and yarn. No. 137,435; Nov. 23; v. 280; p. 799.
Saltzman & Berman, New York, N. Y. Pile fabrics, cotton, linen, and silk piece goods. No. 132,239; June 15; v. 275; p. 620.
Salwen, David, New York, N. Y. Hosiery. No. 128,511; Jan. 6; v. 270; p. 184.
Salz Brothers, New York, N. Y. Fountain-pens. No. 128,317; Jan. 6; v. 270; p. 178.
Salz Brothers, New York, N. Y. Magazine-pencils. No. 128,841; Jan. 13; v. 270; p. 343.
Salzer, John A., Seed Co., La Crosse, Wis. Garden, field, and flower seeds. No. 134,792; Sept. 14; v. 278; p. 360.
Sammel, Fred S., Bedford, Pa. Phonographs and talking-machines. No. 130,402; Apr. 20; v. 273; p. 623.
Samoset Chocolates Co., Boston, Mass. Candies. No. 130,902; May 4; v. 274; p. 190.
Samoset Chocolate Company, Boston, Mass. Candy. Nos. 135,794–802; Oct. 26; v. 279; p. 531.
Samoset Chocolate Company, Boston, Mass. Candy. No. 137,061; Nov. 16; v. 280; p. 584.
Sampson Appliance Corporation, The, New York, N. Y. Closers for bottles. No. 136,177; Oct. 26; v. 279; p. 724.
Sampson, Archibald T., Lynn, Mass. Electric conduits, lighting and power fixtures. No. 131,604; May 18; v. 274; p. 608.
Sampson & Murdock Company, Boston, Mass. Maps. No. 129,864; Mar. 9; v. 272; p. 368.
Samson Tractor Company, Janesville, Wis. Tractors for hauling agricultural implements and other similar agricultural purposes. No. 132,508; June 22; v. 275; p. 822.
Samstag & Hilder Bros., New York, N. Y. Infants' pants. No. 130,903; May 4; v. 274; p. 190.
Samstag & Hilder Bros., New York, N. Y. Marcel and water waver. No. 131,232; May 4; v. 274; p. 200.
Samstag & Hilder Bros., New York, N. Y. Snap-fasteners. No. 132,047; June 8; v. 275; p. 416.
Samstag & Hilder Bros., New York, N. Y. Hand-mirrors, bonnet-mirrors, and picture-frames. No. 134,793; Sept. 14; v. 278; p. 360.
Samstag and Hilder Bros., New York, N. Y. Combs in shell, &c. No. 135,064; Sept. 21; v. 278; p. 535.
Samuels, Edward, Brooklyn, N. Y. Woolen-felt rug. No. 136,178; Oct. 26; v. 279; p. 724.
San Jose Canning Co., San Jose, Calif. Canned vegetables and fruits. Nos. 134,279–80; Aug. 24; v. 277; p. 779

Alphabetical list of registrants of trade-marks—Continued.

San Jose Canning Co., San Jose, Calif. Canned vegetables and fruits. No. 135,803; Oct. 19; v. 279; p. 531
Sanatho Specialty Company, Phoenix, Ariz. Napkin-holders commercially known as sanitary belts. No. 133,032; July 6; v. 276; p. 203.
Sanborn & Bartle Inc., Plattsburg, N. Y. Eyeglasses and spectacles. No. 129,306; Feb. 10; v. 271; p. 356.
Sanchiz de Quesada, José, Madrid, Spain. Olive-oil. No. 134,427; Aug. 31; v. 277; p. 974.
Sand Milling and Manufacturing Co., Belleville, Ill. Wheat-flour. No. 138,106; Dec. 14; v. 281; p. 400.
Sanders, Edward A., St. Joseph, Mo. Mesh or netted underwear. No. 137,921; Dec. 7; v. 281; p. 202.
Sanders, Leona A., New York, N. Y. Liquid compound for polishing painted surfaces. No. 138,105; Dec. 14; v. 281; p. 400.
Sanderson Bros. & Company, Pittsburgh, Pa. Steel bars, rods, sheets, &c. No. 133,507; July 27; v. 276; p. 771.
Sanderson, Walter J., Toronto, Ontario, Canada. Boiler-cleaning compounds. No. 129,865; Mar. 9; v. 272; p. 868.
Sands Manufacturing Company, The, Cleveland, Ohio. Gas, gasolene, and kerosene water heaters, &c. No. 134,794; Sept. 14; v. 278; p. 360.
San Fernando Canning Co., San Fernando, Calif. Canned peaches and apricots. No. 134,534; Sept. 7; v. 278; p. 161.
Sanford, Franklin, Cincinnati, Ohio. Disinfectants. No. 129,066; Jan. 20; v. 270; p. 475.
Sanford Mills, Sanford, Me. Woven textile rugs. No. 135,527; Oct. 12; v. 279; p. 345.
Sanger Brothers, Inc., Dallas, Tex., and New York, N. Y. Ginghams, cotton goods, wool and cotton goods, &c. No. 133,314; July 20; v. 276; p. 592.
Sanger Brothers, Inc., Dallas, Tex. Clothing. No. 137,436; Nov. 23; v. 280; p. 799.
Sangoff, Peter, Worcester, Mass. Coats. No. 131,233; May 4; v. 274; p. 200.
Sangoff, Peter, Worcester, Mass. Antiskidding rubber tires. No. 136,921; Nov. 9; v. 280; p. 382.
Sanibrass Corporation, The, Brooklyn, N. Y. Water-cooler. No. 135,328; Sept. 28; v. 278; p. 705.
Sani-Mani Laboratory, The, Long Beach, Calif. Preparation used to soften cuticle and remove stains. No. 138,340; Dec. 21; v. 281; p. 567.
Saniphone Company, The, Baltimore, Md. Mouthpiece attachments for the transmitters of telephones. No. 136,922; Nov. 9; v. 280; p. 382.
Sanitary Engineering Company, Charlotte, N. C. Septic tanks. No. 131,605; May 18; v. 274; p. 608.
Sanitary Food Manufacturing Co., St. Paul, Minn. Candy. No. 137,437; Nov. 23; v. 280; p. 799.
Sanitary Phone Corporation, New York, N. Y. Sanitary protectors for telephone-transmitters. No. 130,904; May 4; v. 274; p. 190.
Sanitary Products Corporation, The, New York, N. Y. Disinfectants. Nos. 136,179; Oct. 26; v. 279; p. 724.
Sanitary Products Corporation, The, New York, N. Y. Disinfectants. No. 136,613; Nov. 2; v. 280; p. 187.
Sanitary Specialties Co., Philadelphia, Pa. Plumbing supplies and bath-room fixtures. No. 136,278; Oct. 26; v. 279; p. 726.
San Leandro Canning Co., San Leandro, Calif. Canned fruits and vegetables. Nos. 136,180–1; Oct. 26; v. 279; p. 724.
Santiago Orange Growers Association, Orange, Calif. Fresh oranges. No. 128,842; Jan. 13; v. 270; p. 343.
San-tro-pas Manufacturing Company, Limited. (See Bickell, David A., assignor.)
Saphil Manufacturing Corporation, Chicago, Ill. Metal-working grinding-machines and parts thereof. No. 135,329; Sept. 28; v. 278; p. 705.
Sapiro, Max, New York, N. Y. Knitted, netted, and textile fabrics. No. 129,866; Mar. 9; v. 272; p. 868.
Saqui, Dave S., New York, N. Y. Cigars and cigarettes. No. 137,756; Nov. 30; v. 280; p. 1002.
Sar-Ann Manufacturing Co., St. Louis, Mo. Boot-tops and spats. No. 135,528; Oct. 12; v. 279; p. 345.
Saratoga Vichy Spring Company, Saratoga Springs, N. Y. Vichy water. No. 129,867; Mar. 9; v. 272; p. 868.
Sargoy Bros., Brooklyn, N. Y. Washboilers. No. 133,808; Aug. 3; v. 277; p. 177.
Sargoy Brothers, Brooklyn, N. Y. Washboiler. No. 135,529; Oct. 12; v. 279; p. 345.
Sato, Genshiro, Seattle, Wash. Wooden toys. No. 130,905; May 4; v. 274; p. 190.
Sauer, C. F., Co., Richmond, Va. Food-flavoring extracts. No. 128,843; Jan. 13; v. 270; p. 343.
Sauer, C. F., Co., Richmond, Va. Flavoring extracts. No. 130,403; Apr. 20; v. 273; p. 623.
Sauer, C. F., Company, Richmond, Va. Food-flavoring extracts. No. 128,512; Jan. 6; v. 270; p. 184.
Sauer, C. F., Company, The, Richmond, Va. Non-alcoholic, non-cereal, maltless flavoring extracts for beverages. No. 132,509; June 22; v. 275; p. 822.
Saulter, Mary B., Cincinnati, Ohio. Hair-ointment. No. 129,581; Feb. 24; v. 271; p. 680.
Sauquoit Toilet Paper Company, Inc., New Hartford, N. Y. Toilet-paper. No. 136,614; Nov. 2; v. 280; p. 187.
Sawyer, Jesse E., Quincy, Ill. Self-vulcanizing patches for inner tubes of automobile-tires, &c. No. 134,535; Sept. 7; v. 278; p. 161.
Saxo Chemical Co., Houston, Tex. Plastic surgical dressing. No. 132,510; June 22; v. 275; p. 822.
Saxo Chemical Co., Houston, Tex. Liquid antiseptic used as a gargle, mouth-wash, &c. No. 132,511; June 22; v. 275; p. 822.
Sayer, Victor, New York, N. Y. Clothing. No. 137,693; Nov. 30; v. 280; p. 1000.
Sayre Creamery Cold Storage Co., Sayre, Pa. Ice-cream. No. 128,513; Jan. 6; v. 270; p. 184.
Scafe, Roy C., Brooklyn, N. Y. Liniment for certain named ailments. No. 132,512; June 22; v. 275; p. 822.
Scallan Supply Company, Cincinnati, Ohio. Fire-extinguishing syringes. No. 130,570; Apr. 27; v. 273; p. 804.
Scanlon, Joseph, Brooklyn, N. Y. Toy horse. No. 134,536; Sept. 7; v. 278; p. 161.
Scarlett, James, Seattle, Wash. Waterproof fabrics. No. 132,797; June 29; v. 275; p. 1019.
Schacht, Ludwig, Buffalo, N. Y. Non-alcoholic beverages. No. 136,182; Oct. 26; v. 279; p. 724.
Schaefer, F. & M., Brewing Co., New York, N. Y. Soft drink. No. 128,514; Jan. 6; v. 270; p. 184.
Schaefer, F. & M., Brewing Co., New York, N. Y. Soft drink. No. 132,513; June 22; v. 275; p. 822.
Schaefer, William H., New York, N. Y. Inhalers. No. 130,906; May 4; v. 274; p. 190.
Schaeffer, Charles P., Reading, Pa. Shoe-laces. No. 133,809; Aug. 3; v. 277; p. 177.
Schaffer, William H., Cumberland, Md. Cleaning preparation for removing tar, &c., from automobiles, &c. No. 128,844; Jan. 13; v. 270; p. 343.
Schall, William, & Co., New York, N. Y. Drills and shirtings. No. 133,034; July 6; v. 276; p. 203.
Schall's Inc., Clinton, Iowa. Chocolates. No. 133,083; July 6; v. 276; p. 203.
Scheel, William H., New York, N. Y. Lacquer compositions. No. 137,858; Dec. 7; v. 281; p. 198.
Scheidt, Adam, Beverage Co., Norristown, Pa. Sarsaparilla, ginger-ale, lemon-soda. No. 128,845; Jan. 13; v. 270; p. 343.
Scheidt, Adam, Beverage Company, Norristown, Pa. Beverage. No. 131,606; May 18; v. 274; p. 608.
Scheidt, Adam, Beverage Company, Norristown, Pa. Beverage made of malt and cereals. No. 135,804; Oct. 19; v. 279; p. 531.
Scheidt, Adam, Brewing Company, Norristown, Pa. Lager-beer. No. 135,882; Oct. 26; v. 279; p. 715.
Scheidt, Adam, Beverage Co., Norristown, Pa. Beverage made of malted cereals. Nos. 136,923–4; Nov. 9; v. 280; pp. 382–3.
Scheidt, Adam, Beverage Company, Norristown, Pa. Beverage. Nos. 138,108–9; Dec. 14; v. 281; p. 400.
Scheminger, John, Jr., Providence, R. I. Hydrocarbon-burners. No. 131,897; May 25; v. 274; p. 885.
Schieffelin & Co., New York, N. Y. Medicinal compound for external treatment of hay-fever. No. 132,514; June 22; v. 275; p. 822.
Schiff, David, New York, N. Y. Candies. No. 132,798; June 29; v. 275; p. 1019.
Schiller, S. New York, N. Y. Women's, men's and children's hats. No. 130,907; May 4; v. 274; p. 190.
Schindler, Charles, Toledo, Ohio. Rolling toy. No. 136,615; Nov. 2; v. 280; p. 187.
Schisa, Ettore M., Syracuse, N. Y., and Lebanon, Pa. Macaroni. No. 134,537; Sept. 7; v. 278; p. 161.
Schlar, Herman, Philadelphia, Pa. Hair and scalp preparation. No. 128,846; Jan. 13; v. 270; p. 343.
Schlesinger, Harry, Brooklyn, N. Y. Remedy for corns, warts, &c. No. 128,847; Jan. 13; v. 270; p. 343.
Schlesinger, Richard M., New Athens, Ill. Ginger-ale. No. 131,618; May 18; v. 274; p. 608.
Schless-Harwood Company, New York, N. Y. Settings for articles of jewelry. No. 137,440; Nov. 23; v. 280; p. 799.
Schlosser, M. & F., New York, N. Y. Writing and wrapping paper, cardboard, and paper mailing-envelops. No. 132,799; June 29; v. 275; p. 1019.
Schlup, Samuel, Cambridge, Ohio. Ointment for la-grippe, colds, inflammation, and congestion. No. 133,810; Aug. 3; v. 277; p. 177.
Schmick, Carrie R., Beach Cliff, Rocky River, Ohio. One-piece dresses and aprons. No. 130,571; Apr. 27; v. 273; p. 804.
Schmid, Julius, Incorporated, New York, N. Y. Face-powders, talcum powder, compacts, lip-salve, &c. No. 131,607; May 18; v. 274; p. 608.
Schmid, Julius, Incorporated, New York, N. Y. Face-powder and rouges. No. 132,800; June 29; v. 275; p. 1019.
Schmid, Julius Incorporated, New York, N. Y. Capping-skins for stoppered bottles. No. 132,801; June 29; v. 275; p. 1019.
Schmid, Julius, Incorporated, New York, N. Y. Skins for stoppered bottles, Capping-. No. 134,487; Aug. 31; v. 277; p. 974.
Schmid, Roost Jakob, Oerlikon, Switzerland. Ball and roller bearings and parts. No. 129,216; Jan. 27; v. 270; p. 616.
Schmidt & Ault Paper Co., York, Pa. Tailors' pattern-papers and blue macaroni-paper. No. 138,107; Dec. 14; v. 281; p. 400.

Digitized by Google

Schmidt, John C., St. Louis, Mo. Fixtures for curtain-stretchers and curtain-stretcher pins. No. 133,110; Dec. 14; v. 281; p. 400.
Schmitz, Charles A., Boston, Mass. Puzzles. No. 129,067; Jan. 20; v. 270; p. 475.
Schmitz, John, Cleveland, Ohio. Washing fluid. No. 130,405; Apr. 20; v. 273; p. 623.
Schneider, Abraham B., New York, N. Y. Imitation fur. No. 134,796; Sept. 14; v. 278; p. 360.
Schnuck, Edward F., White Plains, N. Y. Coffee. No. 137,859; Dec. 7; v. 281; p. 198.
Schobert, Chris F., Kansas City, Mo. Meat-substitute food preparation made of nuts, cereals, and spices. No. 129,392; Feb. 17; v. 271; p. 509.
Schoble, Frank, & Co., Philadelphia, Pa. Men's felt hats. No. 133,179; July 13; v. 276; p. 403.
Schoener, Herman, St. Cloud, Minn. Combination sets of garden tools. No. 135,805; Oct. 19; v. 279; p. 532.
Schoenfeld, Henry, New York, N. Y. Saffron. No. 134,797; Sept. 14; v. 278; p. 360.
Schofield Oil Co., Inc., New York, N. Y. Soap. No. 131,234; May 4; v. 274; p. 200.
Schoenhofen Company, Chicago, Ill. Non-alcoholic maltless beverages, syrups, &c. No. 130,572; Apr. 27; v. 273; p. 804.
Schoenhofen Company, Chicago, Ill. Non-alcoholic maltless beverages. No. 130,573; Apr. 27; v. 273; p. 804.
Schoenhofen Company, Chicago, Ill. Candy, chocolate, and cocoa. No. 136,616; Nov. 2; v. 280; p. 187.
Schoenhofen Company, Chicago, Ill. Candy. No. 136,617; Nov. 2; v. 280; p. 187.
Schoenhoffen Company, Chicago, Ill. Non-alcoholic non-cereal maltless beverage. No. 129,217; Jan. 27; v. 270; p. 616.
Schoening, M. E., Co., Inc., New York, N. Y. Musical-instrument strings. Nos. 135,330–1; Sept. 28; v. 278; p. 705.
Schofield Oil Co. Inc., New York, N. Y. Lubricating-oils. No. 129,393; Feb. 17; v. 271; p. 509.
Schoonmaker, F. W., Incorporated, New York, N. Y. Paste for skin irritations, bites, and poisonings. No. 134,798; Sept. 14; v. 278; p. 360.
Schott Brothers, New York, N. Y. Ladies' hosiery and knitted underwear. No. 136,618; Nov. 2; v. 280; p. 197.
Schott Brothers, New York, N. Y. Children's and misses' hosiery and knitted underwear. No. 136,925; Nov. 9; v. 280; p. 383.
Schreiber, Leon, Cleveland, Ohio. Women's aprons. No. 133,315; July 20; v. 276; p. 592.
Schreiber Milling & Grain Co., St. Joseph, Mo. Hog and cattle feed. No. 134,081; Aug. 10; v. 277; p. 390.
Schroeder Headlight & Generator Co., Evansville, Ind. Electric headlights and turbo-generators. Nos. 130,406–7; Apr. 20; v. 273; p. 623.
Schroeder, Henry P., St. Louis, Mo. Malt extract. No. 137,438; Nov. 23; v. 280; p. 799.
Schroeder & Tremayne, St. Louis, Mo. Sponges and chamois. No. 130,107; Apr. 6; v. 273; p. 181.
Schuldenberg, George, Highlandtown and Baltimore, Md. Lard compounds. No. 129,069; Jan. 20; v. 270; p. 476.
Schulemann, F., Co., New York, N. Y. Floss for embroidery and cotton for crocheting. No. 128,849; Jan. 13; v. 270; p. 343.
Schuler Chocolate Factory, Inc., Winona, Minn. Candy. Nos. 133,035–36; July 6; v. 276; pp. 203–4.
Schuler Chocolate Factory, Inc., Winona, Minn. Candy. No. 134,082; Aug. 10; v. 277; p. 390.
Schuller, Frederick A., Boston, Mass. Muffins. No. 129,218; Jan. 27; v. 270; p. 616.
Schulman & Hauptman, New York, N. Y. Misses' coats, and suits. No. 132,515; June 22; v. 275; p. 822.
Schulte, D. A., Inc., New York, N. Y. Cigars, cigarettes, cheroots, &c. No. 133,508; July 27; v. 276; p. 771.
Schultz, B., & Co., Worcester, Mass. Women's outer waists. No. 129,532; Feb. 24; v. 271; p. 68.
Schumacher, Frank M., New Orleans, La. Leather boots and shoes for men. No. 130,908; May 4; v. 274; p. 190.
Schumann Piano Company, Rockford, Ill. Pianos, player-pianos and player-piano actions. No. 135,875; Oct. 19; v. 279; p. 536.
Schussler, M., & Co., San Francisco, Calif. Watches. No. 130,408; Apr. 20; v. 273; p. 623.
Schutter-Johnson Candy Co., Chicago, Ill. Candies. No. 135,806; Oct. 19; v. 279; p. 532.
Schwab, Jules, & Co., New York, N. Y. Bead and metal bags, beaded sautoires, necklaces. No. 131,608; May 18; v. 274; p. 608.
Schwartz, Chas. M., Philadelphia, Pa. Bath and lounging robes and smoking-jackets. No. 132,516; June 22; v. 275; p. 822.
Schwartz, David, Co., Inc., New York, N. Y. Chambrays and tickings. No. 129,868; Mar. 9; v. 272; p. 368.
Schwartz, Max A., New York, N. Y. Rubber tires. No. 133,811; Aug. 3; v. 277; p. 177.
Schwartz & Terry, New Orleans, La. Wheat-flour. Nos. 136,619–20; Nov. 2; v. 280; p. 187.
Schwarz-Hexter Co., The, Cleveland, Ohio. Women's coats. Nos. 135,807–8; Oct. 19; v. 279; p. 532.
Schwarz-Hexter Co., The, Cleveland, Ohio. Women's coats. No. 137,439; Nov. 23; v. 280; p. 799.
Schwarz, Max, New York, N. Y. Voiles in the piece. No. 131,619; May 18; v. 274; p. 608.
Schwarz, Max, New York, N. Y. Voiles in the piece. No. 133,037; July 6; v. 276; p. 204.
Schwarz, S. L., & Co., Chicago, Ill., and Kansas City, Mo. Butchers' wrapping-paper. No. 129,967; Mar. 9; v. 272; p. 371.
Schweppes, Limited, London, England. Non-alcoholic non-cereal maltless flavored beverages. No. 134,538; Sept. 7; v. 278; p. 161.
Schweppes Limited, London, England. Manufactured medicinal compound comprising an aperient water. No. 135,065; Sept. 21; v. 278; p. 535.
Schwob, Adolphe, Inc., New York, N. Y. Watches and watch-movements. No. 135,066; Sept. 21; v. 278; p. 535.
Scientific Materials Company, Pittsburgh, Pa. Optical apparatus for magnifying and viewing stereoscopic, transparent, and photographic plates. No. 135,332; Sept. 28; v. 278; p. 705.
Scientific Products Company, Steubenville, Ohio, and New Cumberland, W. Va. Electric warming-pads. No. 130,909; May 4; v. 274; p. 190.
Scintilla, Solothurn, Switzerland. Electrical apparatus, machines, and supplies. No. 132,240; June 15; v. 275; p. 620.
Scotch-Tone Company, Oklahoma, Okla. Callous-removing preparations. No. 129,068; Jan. 20; v. 270; p. 476.
Scotford, Baron H., Atlantic City, N. J. Portraits, sketches, and drawings. Nos. 129,869–70; Mar. 9; v. 272; p. 368.
Scott & Bowne, Bloomfield, N. J. Cod-liver oil. No. 132,517; June 22; v. 275; p. 822.
Scott & Bowne, Bloomfield, N. J. Cod-liver oil. No. 135,333; Sept. 28; v. 278; p. 705.
Scott Corporation, The, Chicago, Ill. Electrical testing-switch for ignition systems. No. 132,518; June 22; v. 275; p. 822.
Scott County Milling Company, The, Sikeston, Mo. Wheat-flour. No. 133,038; July 6; v. 276; p. 204.
Scott County Milling Company, The, Sikeston, Mo. Wheat-flour. No. 137,694; Nov. 30; v. 280; p. 1000.
Scott, Edwin D., Graham, N. C. Preparation for killing rats. No. 138,508; Dec. 28; v. 281; p. 784.
Scott-Fetzer Company, The, Cleveland, Ohio. Hand-operated suction carpet-sweepers. No. 131,367; May 11; v. 274; p. 401.
Scott, Lester C., San Diego, Calif. Lubricating-oils for guns, locks, bicycles, &c. No. 134,080; Aug. 10; v. 277; p. 390.
Scott, Lucinda, Wichita, Kans. Medicinal preparation for the treatment of cholera in hogs and poultry. No. 135,067; Sept. 21; v. 278; p. 535.
Scott Player Action Co., Racine, Wis. Player-piano actions. No. 138,531; Dec. 28; v. 281; p. 784.
Scott & Williams Incorporated, New York, N. Y. Knitting-machines, attachments, and parts. No. 136,926; Nov. 9; v. 280; p. 383.
Scourby, Constantine, New York, N. Y. Chocolates, bonbons, and candies. No. 137,062; Nov. 16; v. 280; p. 584.
Scourby, Constantine, New York, N. Y. Chocolates, bonbons, and candies. No. 138,341; Dec. 21; v. 281; p. 567.
Scoville, M. G., Sons Company, Ogden, Utah. Brooms. Nos. 136,927–9; Nov. 9; v. 280; p. 383.
Scrandrett, Leslie A., Sydney, New South Wales, Australia. Hides, skins, and raw furs. No. 134,795; Sept. 14; v. 278; p. 360.
Scranton Distributing and Mfg. Co., Scranton, Pa. Bitter-wine tonic for medicinal purposes. No. 135,068; Sept. 21; v. 278; p. 535.
Screen Letter Box, Inc., New York, N. Y. Motion-picture films. No. 128,848; Jan. 13; v. 270; p. 343.
Screencraft Pictures, Inc., New York, N. Y. Moving-picture films. No. 130,910; May 4; v. 274; p. 190.
Scull, William S., Company, Camden, N. J. Rice. No. 132,048; June 8; v. 275; p. 416.
Scull, William S., Company, Camden, N. J. Tea and rice. No. 132,802; June 29; v. 275; p. 1019.
Seaboard Commercial Company, Seattle, Wash. Canned salmon. No. 135,809; Oct. 19; v. 279; p. 532.
Seaboard Commercial Co., Seattle, Wash. Canned salmon. No. 136,621; Nov. 2; v. 280; p. 187.
Seacoast Canning Co., Eastport, Me. Canned sardines. No. 136,930; Nov. 9; v. 280; p. 383.
Sealright Company, Inc., Fulton, N. Y. Receptacles. No. 133,812; Aug. 3; v. 277; p. 177.
Sealwood Company, St. Louis, Mo. Varnish, varnish-reducer, primers, &c. No. 129,533; Feb. 24; v. 271; p. 681.
Seamans & Cobb Co., Boston, Mass. Cotton sewing-threads. No. 130,404; Apr. 20; v. 273; p. 623.
Seamans & Cobb Co., Boston, Mass. Shoe-cloth. No. 132,519; June 22; v. 275; p. 822.
Seamans & Cobb Company, Augusta, Me., and Boston, Mass. Threads for sewing. No. 138,111; Dec. 14; v. 281; p. 400.
Seamless Rubber Company Inc., New Haven, Conn. Hand and tennis balls. No. 138,112; Dec. 14; v. 281; p. 401.
Seandrett, Leslie A., Sydney, New South Wales, Australia. Rabbit-meat. No. 134,079; Aug. 10; v. 277; p. 390.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Searchlight Publishing Company, Inc., The, Wilmington, Del., and Washington, D. C. Monthly publications. No. 138,113; Dec. 14; v. 281; p. 401.
Searcy, Aaron T., Chicago, Ill. Liquid for cleaning leather. No. 138,509; Dec. 28; v. 281; p. 784.
Searle, Robinson P., Toledo, Ohio. Lubricating oils and greases. Nos. 133,813–14; Aug. 3; v. 277; p. 177.
Sears, John M., Fuquay Springs, N. C. Medical compounds for cuts, bruises, burns, sore throat, &c. No. 135,069; Sept. 21; v. 278; p. 535.
Sears and Nichols Canning Company, Chillicothe, Ohio. Canned vegetables. No. 130,912; May 4; v. 274; p. 190.
Sears, Roebuck & Company, Chicago, Ill. Sole-leather. No. 130,108; Apr. 6; v. 273; p. 181.
Sears, Roebuck and Co., Chicago, Ill. Candy. Nos. 131,235–6; May 4; v. 274; p. 200.
Sears, Roebuck and Co., Chicago, Ill. Wool knitting-yarn. No. 131,829; May 25; v. 274; p. 833.
Sears, Roebuck and Co., Chicago, Ill. Rubber-soled shoes made of fabric and rubber. No. 133,316; July 20; v. 276; p. 592.
Sears, Roebuck and Co., Chicago, Ill. Clothing for boys and young men. No. 133,317; July 20; v. 276; p. 592.
Sears, Roebuck and Co., Chicago, Ill. Women's hats. No. 134,799; Sept. 14; v. 278; p. 360.
Sears, Roebuck and Co., Chicago, Ill. Hats for children and misses. No. 134,800; Sept. 14; v. 278; p. 360.
Sears, Roebuck and Co., Chicago, Ill. Diapers. No. 136,622; Nov. 2; v. 280; p. 187.
Sears, Roebuck & Company, Chicago, Ill. Men's workshirts. No. 137,442; Nov. 23; v. 280; p. 799.
Sears, Roebuck and Co., Chicago, Ill. Overalls. No. 137,443; Nov. 23; v. 280; p. 799.
Sears, Roebuck and Company, Chicago, Ill. Muslin underwear. No. 138,342; Dec. 21; v. 281; p. 567.
Seattle Baking Company, Seattle, Wash. Cake, bread, doughnuts, &c. No. 136,623; Nov. 2; v. 280; p. 187.
Seattle & Puget Sound Packing Company, Seattle, Wash. Syrup for table use. No. 135,530; Oct. 12; v. 279; p. 345.
Sechrist, Albert, Manufacturing Company, The, Denver, Colo. Cooking utensils. No. 135,531; Oct. 12; v. 279; p. 345.
Secrest, Ida L., Chanute, Kans. Hair-tonic. No. 132,808; June 29; v. 275; p. 1019.
Security Cement & Lime Co., Hagerston, Md. Calcareous composition for soil improvement. No. 136,931; Nov. 9; v. 280; p. 383.
Seddon, Louis E., Croton-on-Hudson, N. Y. Adjustable cleats. No. 137,441; Nov. 23; v. 280; p. 799.
Sees-All Manufacturing Company, Seattle, Wash. Automobile-windshield mirrors. No. 138,114; Dec. 14; v. 281; p. 401.
Segal Lock & Hardware Co. Inc., New York, N. Y. Keys and locks. No. 133,318; July 20; v. 276; p. 592.
Segal Lock & Hardware Co. Inc., New York, N. Y. Key-machines and jigs for tumblers of locks. No. 135,810; Oct. 19; v. 279; p. 532.
Seggerman Bros. Inc., New York, N. Y. Dried fruits packed in boxes and barrels. No. 134,083; Aug. 10; v. 277; p. 391.
Seggerman Bros. Inc., New York, N. Y. Chocolate packed boxes and packages. No. 134,084; Aug. 10; v. 277; p. 391.
Sehon, Stevenson and Company, Huntington, W. Va. Coffee. No. 137,063; Nov. 16; v. 280; p. 584.
Seibel, R. M., Kansas City, Mo. Alkaline antiseptic, germicide, deodorant, &c., preparation. No. 136,183; Oct. 26; v. 279; p. 724.
Seidel, William B., Reading, Pa. Hosiery for men and women. No. 133,815; Aug. 3; v. 277; p. 177.
Seidenberg, R. J., Co., Buffalo, N. Y. Cigars, cigarettes, and smoking and chewing tobacco. No. 130,109; Apr. 6; v. 273; p. 181.
Seidler-Miner Company, Detroit, Mich. Electric lighting and wiring fixtures. No. 132,241; June 15; v. 275; p. 620.
Seller, Karl, & Sons, Philadelphia, Pa. Smoked fish. No. 136,932; Nov. 9; v. 280; p. 383.
Selby, John A., Camden, N. J. Powder for cleaning white shoes and clothing. No. 133,816; Aug. 3; v. 277; p. 177.
Selby, John A., Camden, N. J. Liquid polish for pianos, furniture, and other painted or varnished surfaces. No. 133,817; Aug. 3; v. 277; p. 177.
Select Pictures Corporation, Millbrook and New York, N. Y. Motion-picture films. No. 136,729; Nov. 2; v. 280; p. 192.
Select Products Sales Corporation, New York, N. Y. Chemical fire-extinguishing-powder compound. No. 131,368; May 11; v. 274; p. 402.
Seligman and Latz, New York, N. Y. Toilet preparations. No. 136,184; Oct. 26; v. 279; p. 724.
Sellers, William, & Company, Incorporated, Philadelphia, Pa. Injector parts. No. 137,444; Nov. 23; v. 280; p. 799.
Selonick, Stanley E., & Co., New York, N. Y. Outer garments comprising suits and overcoats. No. 138,343; Dec. 21; v. 281; p. 567.
Sels, Abraham, Chicago, Ill. Dry cleaner for fabrics and leather. No. 131,237; May 4; v. 274; p. 200.
Selznick Pictures Corporation, New York, N. Y. Motion-picture films. No. 133,319; July 20; v. 276; p. 592.
Seminole Chemical Co., Binghamton, N. Y. Healing-ointment. No. 173,180; July 13; v. 276; p. 403.
Semrad Chemical Co., Chicago, Ill. Food-flavorings for ice-cream, &c. No. 128,115; Dec. 14; v. 281; p. 401.
Senderman, Bernard, Monterey, Calif. Canned pilchards and sardines. No. 129,534; Feb. 24; v. 271; p. 681.
Sengbusch Self-Closing Inkstand Company, Milwaukee, Wis. Inkstands and inkwells. No. 132,242; June 15; v. 275; p. 620.
Sengbusch Self-Closing Inkstand Company, Milwaukee, Wis. Sanitary moisteners for gummed surfaces. No. 132,520; June 22; v. 275; p. 823.
Senoret Chemical Co., St. Louis, Mo. Medicinal preparation useful as external treatment for congestion, &c. No. 128,850; Jan. 13; v. 270; p. 343.
Sentanel Remedies Company, The, Cincinnati, Ohio. Laxative preparation. No. 131,610; May 18; v. 274; p. 608.
Sentanel Remedies Company, The, Wilmington, Del., and Cincinnati, Ohio. Medicine for certain named ailments. No. 132,521; June 22; v. 275; p. 823.
Sentinel Appliances Company, New York, N. Y. Mechanical fire-extinguishers. No. 136,185; Oct. 26; v. 279; p. 724.
Service Station Supply Co., Detroit, Mich. Electric-battery-cell testers and testing instruments. No. 133,320; July 20; v. 276; p. 592.
Service Station Supply Co., Detroit, Mich. Battery-testers. No. 134,801; Sept. 14; v. 278; p. 360.
Serv-Us Grocery Products Corporation, New York, N. Y. Washing-powders and laundry, scouring, and toilet soaps. No. 137,445; Nov. 23; v. 280; p. 799.
Serv-Us Grocery Products Corporation, New York, N. Y. Grape-juice, lemon-soda, &c. No. 138,116; Dec. 14; v. 281; p. 401.
Sessions, William, York, England. Envelop-sealing slips and adhesive paper seals. No. 134,281; Aug. 24; v. 277; p. 779.
Seydel Manufacturing Company, Jersey City, N. J. Sizing and finishing compounds for textile fabrics and threads. No. 131,609; May 18; v. 274; p. 608.
Seydel Manufacturing Company, Jersey City, N. J. Chemicals. No. 131,830; May 25; v. 274; p. 833.
Shabel, William A., Chicago, Ill. A preparation for cleaning white shoes, &c. No. 137,860; Dec. 7; v. 281; p. 198.
Shackley, W. T., & Son Co., Boston, Mass. Rubber belting. No. 129,871; Mar. 9; v. 272; p. 368.
Shailer, Paul R., Washington, D. C. Candies. No. 128,515; Jan. 6; v. 270; p. 184.
Shainberg & Eber, Memphis, Tenn. Women's and children's outer and under garments, &c. No. 135,070; Sept. 21; v. 278; p. 535.
Shakespeare Company, Kalamazoo, Mich. Casting-rods. No. 135,533; Oct. 12; v. 279; p. 345.
Shaler, C. A., Company, Waupun, Wis. Vulcanizers. No. 129,872; Mar. 9; v. 272; p. 368.
Shaler, C. A., Company, Waupun, Wis. Lenses for automobile-headlights. No. 130,235; Apr. 13; v. 273; p. 404.
Shannon, Robert J., Toronto, Ontario, Canada. Plumbers' and steam-fitters' supplies. No. 130,574; Apr. 27; v. 273; p. 805.
Shapiro Bros. & Mirsky, Los Angeles, Calif. Ladies' waists for outer wear. No. 133,818; Aug. 3; v. 277; p. 177.
Shapiro, J. Lester, Brooklyn, N. Y. Shoes. No. 137,446; Nov. 23; v. 280; p. 799.
Shapleigh Hardware Company, St. Louis, Mo. Prepared roofing. No. 129,070; Jan. 20; v. 270; p. 476.
Shapleigh Hardware Company, St. Louis, Mo. Flash-lights. No. 135,071; Sept. 21; v. 278; p. 535.
Shapleigh Hardware Company, St. Louis, Mo. Flash-lights and flash-light batteries. No. 138,345; Dec. 21; v. 567.
Sharkey, Alice M., Fond du Lac, Wis. Remedy for piles. No. 135,072; Sept. 21; v. 278; p. 535.
Sharp & Dohme, Baltimore, Md. Sedative expectorant. No. 129,535; Feb. 24; v. 271; p. 681.
Sharp & Dohme, Baltimore, Md. Alkaline antiseptic suppositories. No. 131,611; May 18; v. 274; p. 608.
Sharp & Dohme, Baltimore, Md. Rubefacient ointment. No. 131,831; May 25; v. 274; p. 833.
Sharp & Dohme, Baltimore, Md. Digestive compound. No. 131,832; May 25; v. 274; p. 833.
Sharp & Dohme, Baltimore, Md. Alternative antiseptic ointment. No. 131,833; May 25; v. 274; p. 833.
Sharp & Dohme, Baltimore, Md. Antiseptic antipuritis ointment. No. 131,834; May 25; v. 274; p. 833.
Sharp & Dohme, Baltimore, Md. Urinary antiseptic capsules. No. 132,522; June 22; v. 275; p. 823.
Sharp & Dohme, Baltimore, Md. Antiseptic tablets. No. 132,523; June 22; v. 275; p. 823.
Sharp & Dohme, Baltimore, Md. Anodyne astringent suppository. No. 137,447; Nov. 23; v. 280; p. 794.
Sharp & Dohme, Baltimore, Md. Sedative diuretic compound. No. 137,695; Nov. 30; v. 280; p. 1000.
Sharp Spark Plug Company, The, Cleveland, Ohio. Spark-plugs for internal-combustion engines. No. 137,696; Nov. 30; v. 280; p. 1000.

Digitized by Google

Sharples Separator Co., The, West Chester, Pa. Cream-separators and centrifugal machinery. No. 137,861; Dec. 7; v. 281; p. 198.
Shartenberg & Robinson Company, Pawtucket, R. I. Millinery, hats, caps, &c. No. 129,394; Feb. 17; v. 271; p. 509.
Shattuck & Jones, Incorporated, Boston, Mass. Boneless salt codfish. No. 136,186; Oct. 26; v. 279; p. 724.
Shaver, Elsie, New York, N. Y. Dolls. Nos. 133,039; July 6; v. 276; p. 204.
Shaver, Elsie, New York, N. Y. Dolls. No. 133,181; July 13; v. 276; p. 403.
Shaw, Alex. D., & Co., New York, N. Y. Soap. No. 132,243; June 15; v. 275; p. 620.
Shaw Family, Inc., The, San Jose, Calif. Canned fruits, jams, preserves. Nos. 134,085–6; Aug. 10; v. 277; p. 391.
Shaw, Isaac, Le Roy, Ill. Cereal breakfast food. No. 135,532; Oct. 12; v. 279; p. 345.
Shaw, Theodore L., Boston, Mass. Sound-records. No. 132,804; June 29; v. 275; p. 1019.
Shaw Tire Co., Boston, Mass. Inner tubes for pneumatic tires. No. 129,873; Mar. 9; v. 272; p. 368.
Shea Oar Co., Springfield, Mass. Oars and paddles. No. 131,924; May 25; v. 274; p. 836.
Sheahan, Kohn & Co., Chicago, Ill. Outer garments for boys. No. 128,851; Jan. 13; v. 270; p. 343.
Sheahan, Kohn & Co., Chicago, Ill. Outer garments for boys. Nos. 129,395–6; Feb. 17; v. 271; p. 509.
Shear Company, The, Waco, Tex. Coffee. No. 137,448; Nov. 23; v. 280; p. 800.
Shearer, Carl L., Oneonta, N. Y. Non-alcoholic non-cereal maltless beverages and syrups for making the same. No. 131,835; May 25; v. 274; p. 833.
Shedd, W. J., Company, The, Wilmington, Del., and Chicago, Ill. Coffee. No. 131,836; May 25; v. 274; p. 833.
Sheehan, Edgar M., San Francisco, Calif. Fresh vegetables—namely, asparagus—and fresh fruits—namely, pears. No. 134,087; Aug. 10; v. 277; p. 391.
Sheep and Cattle Men's Supply Manufacturing Company, Cheyenne, Wyo., and Salt Lake City, Utah. Live-stock-dipping powder and fluid. No. 131,620; May 18; v. 274; p. 608.
Sheer, Henry M., Quincy, Ill. Oil burners and heaters. No. 134,438; Aug. 31; v. 277; p. 974.
Sheffield, John W., Binghamton, N. Y. Medicinal tablets for colds, chills, and fever, &c. No. 132,805; June 29; v. 275; p. 1019.
Sheffield Works, Inc., assignor to The Aero Works, Incorporated, New York, N. Y. Saws, and machine, tobacco, cane, and corn knives. No. 133,182; July 13; v. 276; p. 403.
Shelby Candy and Manufacturing Company, The, Shelby, Ohio. Chocolates and candy. No. 138,118; Dec. 14; v. 281; p. 401.
Shelby Candy and Manufacturing Company, The. Chocolates and Candy. Nos. 138,510–11; Dec. 28; v. 281; p. 784.
Sheldon, George C., Nehawka, Nebr. Concrete-mixers. No. 130,913; May 4; v. 274; p. 190.
Shepard, Abraham D., Chicago, Ill. Charged table-water. No. 128,852; Jan. 13; v. 270; p. 343.
Shepard Fruit Products Company, Wenatchee, Wash. Flaked and cooked fruits. No. 137,449; Nov. 23; v. 280; p. 800.
Shepard, Henry W., National City, Calif. Prepared, canned, dried, and otherwise-treated figs. No. 137,697; Nov. 30; v. 280; p. 1000.
Sheridan Commercial Car Company, Chicago, Ill. Automobiles and automobile-trucks. No. 129,308; Feb. 10; v. 271; p. 356.
Sherman Brothers Company, Chicago, Ill. Underwear for men, women, and children, &c. No. 129,536; Feb. 24; v. 271; p. 681.
Sherman, Louis, Cincinnati, Ohio. Cigars, cigarettes, tobacco. No. 128,516; Jan. 6; v. 270; p. 184.
Sherman, Mae, Cleveland, Ohio. Liquid polish for furniture. No. 134,802; Sept. 14; v. 278; p. 360.
Sherry, Louis, Inc., New York, N. Y. Candy, pastry, tea, coffee, &c. No. 129,397; Feb. 17; v. 271; p. 509.
Sherwin-Williams Co., The, Cleveland, Ohio. Pine-oil disinfectant. No. 132,806; June 29; v. 275; p. 1019.
Sherwood Bros., Baltimore, Md. Gasolene. No. 131,925; May 25; v. 274; p. 836.
Sh-h! Company, New York, N. Y. Non-alcoholic beverages. No. 131,591; May 18; v. 274; p. 607.
Shields, John D., Chaplin, Ky. Veterinary medicine for outward application. No. 131,612; May 18; v. 274; p. 608.
Shifrin, Adolph, Brooklyn, N. Y. Salves and ointments. No. 131,369; May 11; v. 274; p. 402.
Shikusawa, Izumi, Chigusa Machi, Aichi Gun, Aichi Ken, Japan. Artificial teeth. No. 137,450; Nov. 23; v. 280; p. 800.
Shiley Chemical Co., Missouri Valley, Iowa. Insecticide. No. 128,853; Jan. 13; v. 270; p. 343.
Shiley Chemical Co., Missouri Valley, Iowa. Medicine for use in the treatment of ailments of the stomach and abdomen. No. 129,537; Feb. 24; v. 271; p. 681.
Shiman-Miller Manufacturing Company, Newark, N. J. Jewelry, not including watches. No. 134,803; Sept. 14; v. 278; p. 360.
Shirek & Hirsch, New York, N. Y. Men's and boys' clothing. No. 129,071; Jan. 20; v. 270; p. 476.
Shireman, Nancye L., Birmingham, Ala. Face-rouge. No. 128,854; Jan. 13; v. 270; p. 343.
Shirtcraft Co. Inc., The, New York, N. Y. Men's dress, negligée, and work shirts. No. 137,703; Nov. 30; v. 280; p. 1000.
Shockless Electric Corporation, Kirkwood, N. J. Electrolytes or fillers for storage batteries. Nos. 129,874–5; Mar. 9; v. 272; p. 368.
Shoe Hardware Company, The. Waterbury, Conn. Buckles. No. 130,913; May 4; v. 274; p. 190.
Shoecraft Shop Inc., The, New York, N. Y., Boots, shoes, slippers, and sandals. No. 137,451; Nov. 23; v. 280; p. 800.
Shoemaker & Busch, Philadelphia, Pa. Insecticides. No. 132,524; June 22; v. 275; p. 823.
Shoninger, B., Co., New Haven, Conn. Pianos. No. 129,968; Mar. 9; v. 272; p. 371.
Shoninger, B., Co., New Haven, Conn. Pianos. No. 132,807; June 29; v. 275; p. 1019.
Shoninger, B., Co., New Haven, Conn. Pianos. No. 134,088; Aug. 10; v. 277; p. 391.
Shott Manufacturing Company, The, Cincinnati and Dayton, Ohio. Bed and couch springs and mattresses. No. 133,509; July 27; v. 276; p. 771.
Shoup, Forest F., Brooklyn, N. Y. Coffee substitute. No. 130,915; May 4; v. 274; p. 190.
Shugers Manufacturing Co., Los Angeles, Calif. Automobile tops and curtains and top and curtain windows. No. 136,624; Nov. 2; v. 280; p. 187.
Shults, Herbert O., Chicago, Ill. Dolls. No. 129,072; Jan. 20; v. 270; p. 476.
Shuman, Frank G., Co., Chicago, Ill. Printed gummed labels. No. 134,539; Sept. 7; v. 278; p. 161.
Shurefix Manufacturing Co., Seattle, Wash. Filler for pneumatic tires. No. 131,837; May 25; v. 274; p. 833.
Shushan Bros & Co., New Orleans, La. Men's and ladies' furnishing goods, hosiery, and notions. No. 133,040; July 6; v. 276; p. 204.
Shutter-Johnson Candy Co., Chicago, Ill. Candy. No. 130,916. May 4; v. 274; p. 190.
Shutter Johnson Candy Co., Chicago, Ill. Candies. No. 131,510; May 18; v. 274; p. 604.
Sidel-Rattner Manufacturing Company, Brooklyn, N. Y. Automatic-tire pumps and grease guns. No. 133,819; Aug. 3; v. 277; p. 177.
Sidney Canning Co., Ltd., Sidney, British Columbia, Canada. Canned fish and clams. No. 129,219; Jan. 27; v. 270; p. 616.
Siegel, Charles, assignor to Victory Confectionery Co., New York, N. Y. Candies, chocolates, and caramels. No. 129,073; Jan. 20; v. 270; p. 476.
Siegle, G., Company, Rosebank, assignor to G. Siegle Corporation of America, New York, N. Y. Colors for a combination of uses. No. 131,621; May 18; v. 274; p. 608.
Siegle, G., Corporation of America. (See Siegle, G., Company, assignor.)
Siemon & Elting, New York, N. Y. Wash-blue. No. 128,855; Jan. 13; v. 270; p. 343.
Siff Bros. Co., New York, N. Y. Men's and boys' suits, overcoats, coats, vests, and trousers. No. 132,525; June 22; v. 275; p. 823.
Sigmund Ullman Company, New York, N. Y. Printing-inks. No. 136,625; Nov. 2; v. 280; p. 187.
Silk Association of America, New York, N. Y. Bulletins issued monthly. No. 129,876; Mar. 9; v. 272; p. 368.
Silk, Louis A., New York, N. Y. Handkerchiefs. No. 135,534; Oct. 12; v. 279; p. 345.
Silkheart Mattress Co., Melbane, N. C. Mattresses. No. 134,804; Sept. 14; v. 278; p. 360.
Silver & Co., Brooklyn and New York, N. Y. Oil-lamps and parts and accessories thereof. No. 136,187; Oct. 26; v. 279; p. 724.
Silver Lake Company, Newton, Mass. Braided cords. No. 138,119; Dec. 14; v. 281; p. 401.
Silverberg, William, Chicago, Ill. Tax-registers. No. 137,064; Nov. 16; v. 280; p. 584.
Silverman, Eugene J., Akron, Ohio. Finger-rings and broaches. No. 131,613; May 18; v. 274; p. 608.
Silverman, Herman, Los Angeles, Calif. Blood-purifier. No. 132,526; June 22; v. 275; p. 823.
Silverman, Joseph, Baltimore, Md. Suspenders, garters, armbands, &c. No. 130,917; May 4; v. 274; p. 190.
Simcox, Edward C., Columbus, Ohio. Games and game-boards of a checker or chess like variety. No. 129,074; Jan. 20; v. 270; p. 476.
Simeon & Elting, New York, N. Y. Wash-blue. No. 132,527; June 22; v. 275; p. 823.
Simlee Film Company, Pittsburgh, Pa. Motion-picture films. No. 134,282; Aug. 24; v. 277; p. 779.
Simmons, C. B., East St. Louis, Ill. Anti-hog-cholera serum. No. 129,538; Feb. 24; v. 271; p. 681.
Simmons Company, Kenosha, Wis. Metal bedsteads, springs, cribs, cots, &c. No. 137,699; Nov. 30; v. 280; p. 1000.
Simmons, Francis T., & Co., Chicago, Ill. Men's, women's, and children's underwear. No. 129,399; Feb. 17; v. 271; p. 509.
Simmons Hardware Company, St. Louis, Mo. Lead-pencils and wrapping-paper. No. 128,518; Jan. 6; v. 270; p. 184.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Simmons Hardware Company, St. Louis, Mo. Scales. No. 129,075; Jan. 20; v. 270; p. 476.
Simmons Hardware Company, St. Louis, Mo. Measuring and scientific appliances. No. 129,076; Jan. 20; v. 270; p. 476.
Simmons Hardware Company, St. Louis, Mo. Harness, riding-saddles, &c. No. 129,077; Jan. 20; v. 270; p. 476.
Simmons Hardware Company, St. Louis, Mo. Bicycles. No. 129,220; Jan. 27; v. 270; p. 616.
Simmons Hardware Company, St. Louis, Mo. Enameled ware for household use. No. 129,309; Feb. 10; v. 271; p. 356.
Simmons Hardware Company, St. Louis, Mo. Oil stones or hones, razor-strops, emery-paper, &c. No. 129,877; Mar. 9; v. 272; p. 368.
Simmons Hardware Company, St. Louis, Mo. Shaving-brushes. No. 130,110; Apr. 6; v. 273; p. 181.
Simmons Hardware Company, St. Louis, Mo. Watches. No. 130,918; May 4; v. 274; p. 190.
Simmons Hardware Company, St. Louis, Mo. Glue. No. 131,838; May 25; v. 274; p. 834.
Simmons Hardware Company, St. Louis, Mo. Cutlery and machinery. No. 132,246; June 15; v. 275; p. 620.
Simmons Hardware Company, St. Louis, Mo. Razor-blades. No. 133,820; Aug. 3; v. 277; p. 177.
Simmons Hardware Company, St. Louis, Mo. Golf-clubs, fishing-rods, reels, minnow seines and nets, caddy-bags. No. 133,821; Aug. 3; v. 277; p. 177.
Simmons Hardware Company, St. Louis, Mo. Safety-razor blades. No. 134,191; Aug. 17; v. 277; p. 582.
Simmons Hardware Company, St. Louis, Mo. Padlocks, night-latches. No. 135,334; Sept. 28; v. 278; p. 705.
Simmons Hardware Company, St. Louis, Mo. Razors. No. 136,188; Oct. 26; v. 279; p. 724.
Simmons Hardware Company, St. Louis, Mo. Sewing-machines and attachments therefor. No. 138,346; Dec. 21; v. 281; p. 567.
Simmons Hardware Company, St. Louis, Mo. Elbows, stovepipe; gas, coal, wood, and oil stoves; portable ovens. No. 138,402; Dec. 21; v. 281; p. 571.
Simonds Manufacturing Company, Fitchburg, Mass. Saws. No. 130,919; May 4; v. 274; p. 190.
Simmons Milling Company, The, Cincinnati, Ohio. Stock and poultry feeds. No. 129,078; Jan. 20; v. 270; p. 476.
Simmons, Thomas W., & Company, San Francisco, Calif. Kerosene. No. 129,400; Feb. 17; v. 271; p. 509.
Simmons, W. S., Jacksonville, Fla. Hair-tonic and dandruff-removers. No. 129,878; Mar. 9; v. 272; p. 365.
Simon Bros. Company, Omaha, Nebr. Canned fruits, vegetables, and fish, coffee. No. 128,517; Jan. 6; v. 270; p. 184.
Simon, Franklin & Co., Inc., New York, N. Y. Jewelry. No. 136,626; Nov. 2; v. 280; p. 187.
Simon & Mendelsohn, New York, N. Y. Cotton piece goods. No. 136,627; Nov. 2; v. 280; p. 187.
Simon Millinery Supply Co., San Francisco, Calif. Ladies' trimmed, tailored, and sport hats. Nos. 137,456–7; Nov. 23; v. 280; p. 800.
Simon, R. & H., Co., Union, N. J. Ribbons in the piece. Nos. 129,879–80; Mar. 9; v. 272; p. 368.
Simon, R. & H., Co., Union, N. J. Ribbons in the piece. No. 135,811; Oct. 19; v. 279; p. 532.
Simonds Manufacturing Company, Fitchburg, Mass. Saws. No. 130,016; Mar. 23; v. 272; p. 731.
Simonds Manufacturing Company, Fitchburg, Mass. Saws. No. 132,245; June 15; v. 275; p. 620.
Simonds Manufacturing Company, Fitchburg, Mass. Saws. No. 132,528; June 22; v. 275; p. 823.
Simonds Manufacturing Company, Fitchburg, Mass. Saws. Nos. 136,933; Nov. 9; v. 280; p. 383.
Simonds Manufacturing Company, Fitchburg, Mass. Saws. No. 137,065; Nov. 16; v. 280; p. 584.
Simons Manufacturing Company, Chicago, Ill. Paint-enamel for metal and the like. No. 137,700; Nov. 30; v. 280; p. 1000.
Simons Manufacturing Company, Chicago, Ill. Paste for cleaning and polishing automobile-bodies and the like. No. 137,701; Nov. 30; v. 280; p. 1000.
Simonson, A., New York, N. Y. Toilet preparations. No. 130,111; Apr. 6; v. 273; p. 181.
Simpson Bros. Corporation, Boston, Mass. Bituminous pavements. No. 130,236; Apr. 13; v. 273; p. 404.
Simpson, W., Sons & Co., Philadelphia, Pa. Cotton piece goods. No. 133,822; Aug. 3; v. 277; p. 177.
Simpson-Walther Lens Company, Incorporated, Rochester, N. Y. Ophthalmic-lens blanks and ophthalmic lenses. No. 128,519; Jan. 6; v. 270; p. 184.
Simpson-Walther Lens Company, Inc., Rochester, N. Y. Ophthalmic-lens blanks and ophthalmic lenses. No. 129,221; Jan. 27; v. 270; p. 616.
Simpson, William, (Manchester) Limited, Stretford, near Manchester, England. Food preparation or conserve. No. 136,934; Nov. 9; v. 280; p. 383.
Simpson, Wm., Sons & Co., Philadelphia, Pa. Cotton piece goods, cotton dress goods, cotton and silk dress goods, &c. No. 132,247; June 15; v. 275; p. 620.
Simpson, Wm., Sons & Co., Philadelphia, Pa. Cotton piece goods, cotton and silk and cotton and worsted dress goods. No. 133,511; July 27; v. 276; p. 771.
Sims, Annie, Pittsburgh, Pa. Salve for treatment of the scalp. No. 132,808; June 29; v. 275; p. 1019.
Sinclair Manufacturing Company, The, Toledo, Ohio. Powdered lye. Nos. 134,805–6; Sept. 14; v. 278; p. 360.
Sinclair Pharmacal Co. Inc., New York, N. Y. Nasal ointment. No. 138,512; Dec. 28; v. 281; p. 784.
Sinclair Refining Company, Chicago, Ill. Kerosene. No. 129,539; Feb. 24; v. 271; p. 681.
Sinclair Refining Company, Chicago, Ill. Oils made from petroleum, both with or without admixture of other oils. No. 132,248; June 15; v. 275; p. 620.
Sinclair Refining Company, Chicago, Ill. Gasolenes. No. 134,089; Aug. 10; v. 277; p. 391.
Sinclair Refining Company, Chicago, Ill. Lubricating-oils. No. 138,403; Dec. 21; v. 281; p. 571.
Siner, Francis M., Clinton, Ind. Medicinal preparation. No 129,310; Feb. 10; v. 271; p. 356.
Singer, Julius S., Chicago, Ill. Dyes in soap form. No. 131,614; May 18; v. 274; p. 608.
Singer, Philip A., & Bro., Newark, N. J. Dressed furs for use in apparel. No. 130,920; May 4; v. 274; p. 190.
Singer, Samuel A., Boston, Mass. Garments for men, women, and children. No. 130,576; Apr. 27; v. 273; p. 805.
Singer, Samuel A., Boston, Mass. Hosiery. No. 130,921; May 4; v. 274; p. 191.
Single, John, Syracuse, N. Y. Paper bags. No. 130,112; Apr. 6; v. 273; p. 181.
Single, John, Syracuse, N. Y. Paper bags. Nos. 133,823–4; Aug. 3; v. 277; p. 177.
Sinnock & Sherrill, New York, N. Y. Jewelry for personal wear—viz., finger-rings. No. 129,881; Mar. 9; v. 272; p. 368.
Sirois, N. Alphonse, Ste. Anne de la Pocatiere, Canada. Medicinal preparations used as a laxative or antigalactic. No. 136,189; Oct. 26; v. 279; p. 724.
Sioris, Pantelis A., New York, N. Y. Weekly newspapers. No. 134,807; Sept. 14; v. 278; p. 360.
Sioux Candy Company, Sioux City, Iowa. Confectionery. No. 134,090; Aug. 10; v. 277; p. 391.
Sioux Candy Co., Sioux City, Iowa. Candy. No. 135,335; Sept. 28; v. 278; p. 705.
Sipe Conditioner M'f'g Co., Kansas City, Mo. Medicine for the upbuilding of the bone, blood, and tissues of live stock. No. 132,529; June 22; v. 275; p. 823.
Sita, Mike, Tacoma, Wash. Leather-dressing for cleaning and polishing shoes. No. 135,073; Sept. 21; v. 278; p. 535.
Sizer Forge Company, Buffalo, N. Y. Steel forgings. No. 131,622; May 18; v. 274; p. 608.
Sizer Forge Company, Buffalo, N. Y. Steel forgings. No. 132,530; June 22; v. 275; p. 823.
Sjoquist, Theodore, Chicago, Ill. Sound-intensifier for telephones. No. 137,702; Nov. 30; v. 280; p. 1000.
Skat Company, The, Hartford, Conn. Soap of paste-like consistency. No. 137,452; Nov. 23; v. 280; p. 800.
Skelton Motors Corporation, St. Louis, Mo. Automobiles. No. 138,347; Dec. 21; v. 281; p. 567.
Skillkrafters Incorporated, Dover, Del., and Philadelphia, Pa. Writing-paper and mailing-envelops. No. 132,249; June 15; v. 275; p. 620.
Skin Remedies Company, Celina, Tex. Ointment for skin diseases, &c. No. 128,856; Jan. 13; v. 270; p. 343.
Skinner Chuck Company, The, New Britain, Conn. Chucks of all kinds. No. 136,190; Oct. 26; v. 279; p. 724.
Skinner Chuck Company, The, New Britain, Conn. Chucks of all kinds. No. 137,453; Nov. 23; v. 280; p. 800.
Skinner Irrigation Company, The, Troy, Ohio. Nozzles, pipes, couplings, &c. No. 136,730; Nov. 2; v. 280; p. 192.
Skinner Manufacturing Company, Omaha, Nebr. Macaroni, vermicelli, and noodles. No. 131,370; May 11; v. 274; p. 402.
Skinner, Paul F., Omaha, Nebr. Bread, pies, ice-cream. No. 129,079; Jan. 20; v. 270; p. 476.
Skinner, Paul F., Omaha, Nebr. Macaroni, spaghetti, and noodles. No. 133,041; July 6; v. 276; p. 204.
Skinner, William, & Sons, Holyoke, Mass. Silk piece goods and cotton piece goods and combinations of same. No. 133,512; July 27; v. 276; p. 771.
Skowbo Co., The, Spokane, Wash. Liquid face-cream. No. 131,615; May 18; v. 274; p. 608.
Skuffer, E. C., Shoe Co., St. Joseph, Mo. Shoes. No. 132,531; June 22; v. 275; p. 823.
Slatedale Knitting Mills, Harrisburg, Pa. Hose for men, women, and children. Nos. 130,409–10; Apr. 20; v. 273; p. 623.
Slatedale Knitting Mills, Harrisburg, Pa. Hose for men, women, and children. No. 130,922; May 4; v. 274; p. 191.
Slater & Morrill, Incorporated, South Braintree, Mass. Boots or shoes. No. 131,238; May 4; v. 274; p. 200.
Slattery, E. T., Co., Boston, Mass. Hosiery. No. 138,513; Dec. 28; v. 281; p. 784.
Slavin Bros. Company, Brooklyn, N. Y. Liquid stove-polish. No. 135,812; Oct. 19; v. 279; p. 532.
Slazenger, Frank L., New York, N. Y. Tennis-rackets. No. 135,074; Sept. 21; v. 278; p. 535.
Sleder & Sleder, Detroit, Mich. Medicine for the treatment of the blood, stomach, liver, &c. No. 129,882; Mar. 9; v. 272; p. 368.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Slim, Pedro, Mexico, Mexico. Snap-fasteners. No. 131,623 May 18; v. 274; p. 608.
Slimpson, Edwin B., Company, Brooklyn, N. Y. Lacing-hooks for shoes. No. 131,927; May 25; v. 274; p. 836.
Sloan & Zook, Bradford, Pa. Gasolene, naphtha, kerosene, &c. No. 137,704; Nov. 30; v. 280; p. 1000.
Sloan, F. A., Albemarle, N. C. Preparation for relief of constipation and indigestion. No. 128,857; Jan. 13; v. 270; p. 343.
Slogo Coal Company, Marion, Ill. Coal. No. 132,049; June 8; v. 275; p. 416.
Slonim Brothers, Duluth, Minn. Clothing, caps, neckties, &c. No. 137,705; Nov. 30; v. 280; p. 1000.
Small, Hugh C., Chicago, Ill. Candy. No. 130,411; Apr. 20; v. 273; p. 623.
Small, L. K., Company, Los Angeles, Calif. Citrus and fresh fruits. No. 137,459; Nov. 23; v. 280; p. 800.
Smallidge, Frank E., Detroit, Mich. Medicine for rheumatism. No. 129,883; Mar. 9; v. 272; p. 365.
Smallwood, Beatrice, Washington, D. C. Preserved fruits. No. 130,577; Apr. 27; v. 273; p. 805.
Smart & Final Co., Santa Ana, Calif. Roasted coffee in packages. No. 130,923; May 4; v. 274; p. 191.
Smith, A. C., Windsor, Canada, and Detroit, Mich. Chemical, &c., preparations. No. 136,628; Nov. 2; v. 280; p. 187.
Smith, A. O., Corporation, Milwaukee, Wis. Motor-wheels for bicycles, &c. No. 129,311; Feb. 10; v. 271; p. 356.
Smith, Archie R., St. Louis, Mo. Hair-tonic, dandruff-eradicator, and complexion-cream. No. 132,532; June 22; v. 275; p. 823.
Smith, Bertha H., Los Angeles, Calif. Skin ointment. No. 138,514; Dec. 28; v. 281; p. 784.
Smith Bros., Port Washington, Wis. Fish products. No. 136,935; Nov. 9; v. 280; p. 383.
Smith, Charles H., Irvington, N. J., assignor to International Coal Products Corporation, Richmond, Va. Briquets made from coal. No. 134,808; Sept. 14; v. 278; p. 360.
Smith & Clark Company, Wilkes-Barre and Scranton, Pa. Ice-creams. No. 132,809; June 29; v. 275; p. 1019.
Smith & Clark Company, Wilkes-Barre and Scranton, Pa. Instantaneous cocoa in powdered form. No. 132,810; June 29; v. 275; p. 1019.
Smith, Dayton D., Philadelphia, Pa. Chemical preparation for preserving eggs. No. 129,081; Jan. 20; v. 270; p. 476.
Smith Edward L., New York, N. Y. Oils, fluids, and compounds used for waterproofing textile fabrics, &c. No. 135,336; Sept. 28; v. 278; p. 705.
Smith & Egge Manufacturing Co., Bridgeport, Conn. Force-feed lubricators. No. 132,533; June 22; v. 275; p. 823.
Smith-Frank Packing Co., Sacramento, Calif. Canned fruits and vegetables. No. 129,080; Jan. 20; v. 270; p. 476.
Smith, Fred P., St. Louis, Mo. Storage batteries. No. 137,460; Nov. 23; v. 280; p. 800.
Smith, Geo. W., McKinney, Tex. Men's suits. No. 135,337; Sept. 28; v. 278; p. 705,
Smith, George B., Springfield, Ill. Composition floors and stuccos of magnesite base. No. 133,321; July 20; v. 276; p. 592.
Smith, Gerald N., Pittsburgh, Pa. Soap, soap jelly, powder, and flakes. No. 136,191; Oct. 26; v. 279; p. 724.
Smith, Henry B., Elmwood Place, Ohio. Hair-restorers. No. 136,629; Nov. 2; v. 280; p. 187.
Smith, James E., Irwin, Pa. Preparation used as a sour in laundrying of linens and other fabrics. No. 129,540; Feb. 24; v. 271; p. 681.
Smith, John R., Los Angeles, Calif. Dry composition for the treatment of influenza. No. 132,811; June 29; v. 275; p. 1019.
Smith, Joseph N., & Company, Detroit, Mich. Automobile accessories. No. 130,578; Apr. 27; v. 273; p. 805.
Smith, Kline & French Co., Philadelphia, Pa. Aspirin. No. 134,540; Sept. 7; v. 278; p. 161.
Smith, Lillian W., Cape Charles, Va. Fresh potatoes. No. 130,924; May 4; v. 274; p. 191.
Smith, Lucius A., Buffalo, N. Y. Trusses for inguinal, femoral, &c., hernia. No. 135,813; Oct. 19; v. 279; p. 532.
Smith, M. E., & Co., Inc., Omaha, Nebr. Women's and children's underwear, night-robes, dresses, and blouses. No. 133,322; July 20; v. 276; p. 592.
Smith, M. E., & Co., Omaha, Nebr. Hosiery. No. 136,631; Nov. 2; v. 280; p. 187.
Smith & Nessle Co., Inc., New York, N. Y., and Eastport, Me. Canned vegetables, fruits, shrimp, and oysters. No. 135,535; Oct. 12; v. 279; p. 345.
Smith & Nichols, New York, N. Y., and Boston, Mass. Paraffin-wax, ozocerite, ceresin, mountain wax, &c. No. 132,812; June 29; v. 275; p. 1019.
Smith & Nichols, New York, N. Y., and Boston, Mass. Electrical insulating waxes. No. 134,091; Aug. 10; v. 277; p. 391.
Smith & Nichols, Incorporated, New York, N. Y. Beeswax, stearic acid, spermaceti. No. 128,858; Jan. 13; v. 270; p. 343.
Smith & Scott Tobacco Co., Incorporated, Paducah, Ky. Smoking-tobacco. No. 137,461; Nov. 23; v. 280; p. 800.
Smith & Sons Manufacturing Company, Kansas City, Mo. Wheel-scrapers, grading-plows, road-graders. No. 137,862; Dec. 7; v. 281; p. 198.
Smith, T. L., Company, The, Chicago, Ill., and Milwaukee, Wis. Mixers, excavators, and loaders, &c. No. 137,462; Nov. 23; v. 280; p. 800.
Smith's Inventions, Inc., Minneapolis, Minn. Oxyacetylene and hydrogen welding and cutting equipment, supplies, and accessories therefor. No. 136,630; Nov. 2; v. 280; p. 187.
Smythe, William B., Lynn, Mass. Cleaning-paste, &c. No. 132,050; June 8; v. 275; p. 416.
"Snapiok," Inc., New York, N. Y. Snap-fasteners. No. 133,825; Aug. 3; v. 277; p. 177.
Snovel, Harry H., Van Wert, Ohio. Cigars. No. 129,082; Jan. 20; v. 270; p. 476.
Snyder, J. H., Med. Co., Jonesboro, Ark. Compound for disorders of the stomach, liver, and bowels. No. 132,534; June 22; v. 275; p. 823.
Soby, John F., New York, N. Y. Writing-ink in powdered form. No. 135,338; Sept. 28; v. 278; p. 705.
Società Anonima Filature e Tessiture Riunite, (now by change of name Societa Anonima Manufatture Italiane Riunite dei Lino e della Canape,) Milan, Italy. Hemp cordage. No. 133,183; July 13; v. 276; p. 403.
Società Ceramica Richard-Ginori, Milan, Italy. Hones made of corindone (corundum). No. 136,632; Nov. 2; v. 280; p. 187.
Società Ceramica Richard-Ginori, Milan, Italy. Hones made of carborundum. No. 136,633; Nov. 2; v. 280; p. 187.
Società Industrie Chimiche Ittiolo, Naples, Italy. Soaps for hygienic and medical purposes. No. 131,239; May 4; v. 274; p. 200.
Società Industrie Chimiche Ittiolo, Naples, Italy. Chemical preparations containing formaldehyde, &c. No. 132,813; June 29; v. 275; p. 1019.
Società Industrie Chimiche Ittiolo, Naples, Italy. Chemicals, medicines, and pharmaceutical preparations. No. 133,184. July 13; v. 276; p. 403.
Société Anonyme des Produits du Lion Noir, Montrouge, near Paris, France. Blackings, creams, and polishes for all kinds of leather articles. No. 131,839; May 25; v. 274; p. 834.
Société Anonyme des Produits du Lion Noir, Montrouge, near Paris, France. Liquid polish for cleaning and polishing all metals. Nos. 136,936–7; Nov. 9; v. 280; p. 383.
Société Anonyme des Produits du Lion Noir, Montrouge, near Paris, France. Blackings, polishes, and creams for all kinds of leather articles. No. 136,938; Nov. 9; v. 280; p. 383.
Société Anonyme des Produits du Lion Noir, Montrouge, near Paris, France. Paste or product for polishing metals. Nos. 136,939–40; Nov. 9; v. 280; p. 383.
Société Anonyme des Produits du Lion Noir, Montrouge, near Paris, France. Paste or polish for stoves, ranges, and pig-iron ware. No. 136,941; Nov. 9; v. 280; p. 383.
Société Anonyme des Produits du Lion Noir-Montrouge, near Paris, France. Bleaching compounds and powder. No. 138,515; Dec. 28; v. 281; p. 784.
Société Anonyme des Savons de Marseille, Marseille, France. Soap. No. 137,863; Dec. 7; v. 281; p. 198.
Societe Anonyme La Bruyere, Paris and St. Claude, France, Tobacco-pipes. No. 130,925; May 4; v. 274; p. 191.
Société Anonyme Les fils de L. Braunschweig, Fabrique Election, La Chaux-de-Fonds, Switzerland. Watches and parts thereof. No. 133,042; July 6; v. 276; p. 204.
Société Anonyme, Les Produits du Naol, Paris, France. Metal-polishes. No. 136,192; Oct. 26; v. 279; p. 724.
Societe des Moteurs Gnome et Rohne, Paris, France. Lubricating oils and greases. No. 131,840; May 25; v. 274; p. 834.
Societe des Moteurs Gnome et Rhone, Paris, France. Internal-combustion aviation-motors and engines. No. 134,192; Aug. 17; v. 277; p. 582.
Societe des Produits Azotés, Paris, France. Fertilizers. No. 136,193; Oct. 26; v. 279; p. 724.
Societe Generale Des Etablissements Bergougnan, Clermont-Ferrand, France. Hollow and solid rubber tires, &c. No. 129,969; Mar. 9; v. 272; p. 371.
Societe H. Trentelivres & Cie., Paris, France. Spark-plugs. No. 136,942; Nov. 9; v. 280; p. 383.
Société Industrielle des Specialites Techniques S. A., Emmenbrücke-Lucerne, Switzerland. Mechanical razor-stroppers. No. 131,624; May 18; v. 274; p. 608.
Société La Perle Saskia, Paris, France. Pearls, collars of pearls, and jewelry adorned with pearls. No. 131,841; May 25; v. 274; p. 834.
Société La Perle Saskia, Paris, France. Jewelry, &c. No. 137,706; Nov. 30; v. 280; p. 1000.
Société Rodier, Paris, France. Textile fabrics. No. 131,597; May 18; v. 274; p. 607.
Société Rodier, Paris, France. Velvet, wool, and cashmere piece goods. No. 135,059; Sept. 21; v. 278; p. 534.
Société Rodier, Paris, France. Woolen and cotton piece goods. No. 135,060; Sept. 21; v. 278; p. 534.
Société Rodier, Paris, France. Velvet, wool, and cashmere piece goods. No. 135,061; Sept. 21; v. 278; p. 534.
Society of Chemical Industry in Basle, Basel, Switzerland. Disinfectants, antiseptics, germicides. No. 129,541; Feb. 24; v. 271; p. 681.
Society of Chemical Industry in Basle, Basel, Switzerland. Phonographic developers. No. 135,075; Sept. 21; v. 278; p. 535.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Society of Chemical Industry in Basle, Basel, Switzerland. Coal-tar colors. No. 138,516; Dec. 28; v. 281; p. 784.
Society, Sons of The Revolution, in the State of California, Los Angeles, Calif. Publications issued quarterly. No. 137,463; Nov. 23; v. 280; p. 800.
Sodemann Heat & Power Co., St. Louis, Mo. House-heating-radiator shields. No. 132,814; June 29; v. 275; p. 1019.
Soderquist, Victor E., Marshalltown, Iowa. Card games. No. 135,814; Oct. 19; v. 279; p. 532.
Sohmer, Harry J., New York, N. Y. Pianos, phonographs, and talking-machines. No. 137,464; Nov. 23; v. 280; p. 800.
Sohn, Charles P., Towson, Md. Medicated capsules for headache. No. 132,535; June 22; v. 275; p. 823.
Solfer, Morris S., Philadelphia, Pa. Headache-pills, blood, liver, and stomach tablets, &c. No. 128,859, Jan. 13; v. 270; p. 343.
Solace Comfort Service Corporation, New York, N. Y. Sanitary napkins. No. 130,926; May 4; v. 274; p. 191.
Solderine Company, Dallas, Tex. Compound for stopping leaks in automobile-radiators. No. 129,542; Feb. 24; v. 271; p. 681.
Solé, Manuel Pedrol, Tarragona, Spain. Alimentary oils. No. 138,122; Dec. 14; v. 281; p. 401.
So-Lite Company, The. (See The Kelley-Robinson Corporation, assignor.)
Solomon, Mannie, Company, New York, N. Y. Ladies' and misses' dresses. No. 133,043; July 6; v. 276; p. 204.
Solomon, Maurice, Cincinnati, Ohio. Liquid cleansing compound for removing grease-spots from fabrics. No. 134,809; Sept. 14; v. 278; p. 360.
Solomon, William G., New York, N. Y. Shower or mixing valves for shower-baths. No. 137,864; Dec. 7; v. 287; p. 198.
Solomon, Zillee, St. Louis, Mo. Men's coats, vests, trousers, top-coats, and overcoats. No. 138,348; Dec. 21; v. 281; p. 567.
Solvay Process Company, The, Solvay, N. Y. Soda ash and crystals, &c. No. 129,312; Feb. 10; v. 271; p. 356.
Solway Dyeing & Textile Company, Pawtucket, R. I. Dyed yarns. No. 137,707; Nov. 30; v. 280; p. 1000.
Somma Shops, Inc., New York, N. Y. Furniture. No. 134,810; Sept. 14; v. 278; p. 360.
Sonard Green Lubricant Company, Washington, D. C. Lubricating-oil. No. 132,536; June 22; v. 275; p. 823.
Sonn Brothers Company, New York, N. Y. Dyestuffs. No. 134,541; Sept. 7; v. 278; p. 161.
Sonn Brothers Company, New York, N. Y. Dyestuffs. Nos. 134,811–6; Sept. 14; v. 278; p. 360.
Sonora, Inc., New York, N. Y. Talking-machines, phonographs, graphophones, &c. Nos. 137,466–72; Nov. 23; v. 280; p. 800.
Sonora Phonograph Corporation, New York, N. Y. Talking-machines, phonographs, gramophones, &c. No. 132,815; June 29; v. 275; p. 1019.
Sons and Daughters of Levi, Dothan, Ala. Medicine for treatment of mumps, measles, cholera, and liver trouble in hogs. No. 134,817; Sept. 14; v. 278; p. 360.
Sorenson, David, Fortuna, Calif. Hog-cholera medicine. No. 128,860; Jan. 13; v. 270; p. 343.
Sormani, Egbert J., Brooklyn, N. Y. Preparations for diseases of the nose and throat. No. 135,339; Sept. 28; v. 278; p. 705.
Soss Manufacturing Co., Brooklyn, N. Y. Hardware and plumbing and steam-fitting supplies. No. 136,634; Nov. 2; v. 280; p. 188.
Soss Manufacturing Co., Brooklyn, N. Y. Hinges. No. 137,474; Nov. 23; v. 280; p. 800.
South Bend Lathe Works, South Bend, Ind. Engine-lathes. No. 133,323; July 20; v. 276; p. 592.
South & Central American Commercial Co. Inc., New York, N. Y. Cotton, wool, and silk piece goods, &c. No. 128,520; Jan. 6; v. 270; p. 184.
South Lake Apopka Citrus Growers Assn., Oakland and Tildenville, Fla. Fresh citrus fruits. No. 128,861; Jan. 13; v. 270; p. 343.
Southern Beverage Company, Galveston, Tex. Non-alcoholic beverages. No. 129,083; Jan. 20; v. 270; p. 476.
Southern Beverage Company, Galveston, Tex. Non-intoxicating beverage. No. 133,513; July 27; v. 276; p. 772.
Southern Beverage Company, Galveston, Tex. Non-alcoholic beverages and syrups. No. 138,123; Dec. 14; v. 281; p. 401.
Southern California Products Company, Orange, Calif. Orange table-syrup. No. 132,537; June 22; v. 275; p. 823.
Southern Candy Company, Tampa, Fla. Candies. No. 130,113; Apr. 6; v. 273; p. 181.
Southern Chemical Products Co., Baltimore, Md. Germicide deodorizing and disinfectant dentifrice preparation. No. 132,538; June 22; v. 275; p. 823.
Southern Cotton Oil Company, Jersey City and Bayonne, N. J.; New York, N. Y.; Gretna, La.; Savannah, Ga., and Chicago, Ill. Cotton-seed-oil shortening compound. No. 129,222; Jan. 27; v. 270; p. 616.
Southern Cotton Oil Company, The, Jersey City and Bayonne, N. J., New York, N. Y., Gretna, La., Savannah, Ga., and Chicago, Ill. Shortening. No. 136,635; Nov. 2; v. 280; p. 188.
Southern Cotton Oil Company, The, Jersey City and Bayonne, N. J., New York, N. Y., Gretna, La., Savannah, Ga., and Chicago, Ill. Vegetable shortening compound. No. 136,636; Nov. 2; v. 280; p. 188.
Southern Extract & Spice Co., Greenville, S. C. Flavoring extracts for ice-cream, &c. No. 131,926; May 25; v. 274; p. 836.
Southern Feed Company, Inc., Newport News, Va. Stock feeds. No. 128,862; Jan. 13; v. 270; p. 343.
Southern Fertilizer & Chemical Co., Savannah, Ga. Fertilizers. No. 128,521; Jan. 6; v. 270; p. 184.
Southern Motor Manufacturing Association, Ltd., Houston, Tex. Automobiles, automobile-bodies, motor-trucks, truck-trailers. No. 130,114; Apr. 6; v. 273; p. 181.
Southern Motor Manufacturing Association, Ltd., Houston, Tex. Tractors. No. 130,115; Apr. 6; v. 273; p. 181.
Southern Motor Manufacturing Association, Ltd., Houston, Tex. Automobiles, automobile-bodies, &c. No. 138,124; Dec. 14; v. 281; p. 401.
Southern Novelty Company, Hartsville, S. C. Receptacles. No. 137,865; Dec. 7; v. 281; p. 198.
Southern Novelty Company, Hartsville, S. C. Cones. No. 138,203; Dec. 14; v. 281; p. 406.
Southern Oil Corporation, Kansas City, Mo. Gasolene. No. 132,816; June 29; v. 275; p. 1019.
Southern Sales Corporation, New York, N. Y. Caustic soda, chlorid of lime, &c. No. 131,625; May 18; v. 274; p. 608.
Southern Sales Corporation, New York, N. Y. Belting and packing of leather. No. 138,125; Dec. 14; v. 281; p. 401.
Southwest Cotton Company, Phoenix, Ariz. Baled cotton. No. 130,927; May 4; v. 274; p. 191.
Southwest Flour & Feed Company, Glendale, Ariz. Field-seeds. No. 134,439; Aug. 31; v. 277; p. 974.
Southwestern Coca-Cola Bottling Co., Deming, N. Mex. Ginger-ale No. 131,842; May 25; v. 274; p. 834.
Sowell, E. E., Sacramento, Calif. Plows. No. 133,826; Aug. 3; v. 277; p. 177.
Spalding, A. G., & Bros., New York, N. Y. Golf-clubs. No. 133,185; July 13; v. 276; p. 403.
Spalding, Buren H., Los Angeles, Calif. Vegetable compound in the form of a tablet used as an aid to the blood. No. 135,076; Sept. 21; v. 278; p. 535.
Spang, Chalfant & Co. Incorporated, Pittsburgh, Pa. Iron and steel tubes. No. 129,223; Jan. 27; v. 270; p. 616.
Spanish American Fruit Company, Inc., Plainfield, N. J., and New York, N. Y. Grape-fruit, pineapples, and grape-fruit marmalade. No. 135,340; Sept. 28; v. 278; p. 705.
Sparks Milling Company, Alton, Ill., and Terre Haute, Ind. Wheat-flour. No. 131,240; May 4; v. 274; p. 200.
Spartan Manufacturing Company, Dayton, Ohio. Shop-aprons, overalls, jackets, utility-suits. No. 130,579; Apr. 27; v. 273; p. 805.
Spaulding Chain Corporation, Bloomfield, N. J. Sprocket-chain links used in forming sprocket-chains. No. 135,815; Oct. 19; v. 279; p. 532.
Spear, Clifton, Texarkana, Tex. Rolling massage and vanishing creams. No. 129,543; Feb. 24; v. 271; p. 681.
Spear & Jackson, Ltd., Sheffield, England. Steel of all descriptions. Nos. 138,126–7; Dec. 14; v. 281; p. 401.
"Spearmint" Co., The, Stillwater, Minn. Non-alcoholic non-intoxicating maltless non-cereal syrup. No. 133,827; Aug. 3; v. 277; p. 177.
Special Chemicals Company, Highland Park, Ill. Sal-ammoniac and soldering fluid. No. 132,539; June 22; v. 275; p. 823.
Special Tool Engineering Manufacturing Company, Inc., The, Dayton, Ohio. Special-designed machinery and tools, dies, jigs, and parts thereof. No. 133,186; July 13; v. 276; p. 403.
Speicher, Daniel E., Urbana, Ind. Seed-sowers. No. 137,475; Nov. 23; v. 280; p. 800.
Speight, Walter E., Jacksonville, Fla. Preparation used as a tonic for chills and fever. No. 131,616; May 18; v. 274; p. 608.
Spellmeyer, Fred W., New York, N. Y. Eggs. Nos. 136,194–5; Oct. 26; v. 279; p. 724.
Spence, Stewart J., Chattanooga, Tenn. Dental plaster. No. 136,196; Oct. 26; v. 279; p. 724.
Spencer Carroll Company, Dallas, Tex. Inner tubes for pneumatic tires. No. 134,542; Sept. 7; v. 278; p. 161.
Spencer, George, & Co., Lutterworth, England. Clothing. No. 130,580; Apr. 27; v. 273; p. 805.
Spencer Lens Company, Buffalo, N. Y. Optical and scientific appliances. Nos. 136,943–4; Nov. 9; v. 280; p. 383.
Spencer, Sally M., Chicago, Ill. Cleaning preparation for fabrics. No. 131,617; May 18; v. 274; p. 608.
Sperry Flour Company, San Francisco, Calif. Stock food. No. 128,522; Jan. 6; v. 270; p. 184.
Sperry Flour Company, San Francisco, Calif. Poultry food. Nos. 128,523–4; Jan. 6; v. 270; p. 184.
Sperry Flour Company, San Francisco, Calif. Wheat-flour. No. 130,412; Apr. 20; v. 273; p. 623.
Sperry Gyroscope Company, The, Brooklyn, N. Y. Electric shears or scissors. No. 132,540; June 22; v. 275; p. 823.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Spicer, Charles R., Memphis, Tenn. Liquid tonic and antiseptic powder. No. 132,541; June 22; v. 275; p. 828.
Spiegel Waist Co., Inc., New York, N. Y. Ladies' waists and blouses. No. 136,637; Nov. 2; v. 280; p. 188.
Spiegelberg, L., & Sons, New York, N. Y. Slip-covers. No. 128,525; Jan. 6; v. 270; p. 184.
Spietz, Charles J., Detroit, Mich. Cigars. No. 137,458; Nov. 23; v. 280; p. 800.
Spietz, Charles J., Detroit, Mich. Cigars. No. 138,117; Dec. 14; v. 281; p. 401.
Spiro, C., Mfg. Co., The, New York, N. Y. Running-boards, mats for automobile running-boards and floors, &c. No. 133,514; July 27; v. 276; p. 772.
Spiro, Max, & Co., New York, N. Y. Men's coats, trousers, vests, &c. No. 137,473; Nov. 23; v. 280; p. 800.
Spirocide Corporation, New York, N. Y. Antiseptics. No. 132,577; June 22; v. 275; p. 824.
Spiropoulos, Basil J., New York, N. Y. Olive-oil. No. 130,237; Apr. 13; v. 273; p. 404.
Spitzmiller, Francis C., Brooklyn, N. Y. Medicinal preparations useful in the treatment of whopping-cough, croup, &c. No. 129,884; Mar. 9; v. 272; p. 368.
Splitdorf Electrical Company, Newark, N. J. Phonographmeters. No. 136,816; Oct. 19; v. 279; p. 532.
Spokane Meelmolens (Spokane Flour Mills), Amsterdam, Holland, and Pendleton, Oreg. Wheat-flour. No. 135,341; Sept. 28; v. 278; p. 705.
Spokane Meelmolens (Spokane Flour Mills), Amsterdam, Holland, and Pendleton, Oreg. Wheat-flour. No. 136,638; Nov. 2; v. 280; p. 188.
Spokane Office Supply Co., Spokane, Wash. Paper and stationery. No. 129,885; Mar. 9; v. 272; p. 368.
Springville Canning Co., The, Springville, N. Y. Canned fruits and vegetables. No. 136,197; Oct. 26; v. 279; p. 724.
Springville Canning Co., Springville, N. Y. Canned vegetables. No. 136,198; Oct. 26; v. 279; p. 724.
Springville Canning Co., The, Springville, N. Y. Canned fruits and vegetables. No. 136,639; Nov. 2; v. 280; p. 188.
Sprochnle, Albert W., Chicago, Ill. Watches. No. 134,324; Aug. 24; v. 277; p. 783.
Square Deal Miller Inc., Detroit, Mich. Diamonds, sterling and plated hollow and flat ware, finger-rings, pearl beads, &c. No. 136,199; Oct. 26; v. 279; p. 724.
Squeegee Heel Company, The, Cleveland, Ohio. Rubber heels. Nos. 136,640–1; Nov. 2; v. 280; p. 188.
Squibb, E. R., & Sons, New York, N. Y. Alteratives, analgesics, anaphrodisiacs, &c. No. 129,544; Feb. 24; v. 271; p. 681.
Squibb, E. R., & Sons, New York, N. Y. Chemicals, medicines, and pharmaceutical preparation. No. 129,886; Mar. 9; v. 272; p. 368.
Squires, Chester J., Galesburg, Ill. Washing-powder. No. 129,887; Mar. 9; v. 272; p. 368.
St. Albans Grain Company, St. Albans, Vt. Stock feed. No. 134,283; Aug. 24; v. 277; p. 779.
St. Albans Grain Company, St. Albans, Vt. Dairy feed. No. 134,284; Aug. 24; v. 277; p. 779.
St. Albans Grain Company, St. Albans, Vt. Wheat feed and hominy-meal. No. 135,818; Oct. 19; v. 279; p. 532.
St. Albans Grain Company, St. Albans, Vt. Flour and cornmeal. No. 136,642; Nov. 2; v. 280; p. 188.
St. Elmo Milling Co., St. Elmo, Ill. Wheat-flour. No. 136,949; Nov. 9; v. 280; p. 383.
St. Louis Beverage Company, St. Louis, Mo. Non-alcoholic non-intoxicating beverage. No. 134,441; Aug. 31; v. 277; p. 974.
St. Louis Brass Manufacturing Company, St. Louis, Mo. Fixtures for electric lights. No. 138,339; Dec. 21; v. 281; p. 566.
St. Louis Brass Mfg. Co., St. Louis, Mo. Electric-lighting fixtures. Nos. 133,839–40; Aug. 3; v. 277; p. 178.
St. Louis Cooperage Company, St. Louis, Mo. Barrels and kegs. No. 132,821; June 29; v. 275; p. 1019.
St. Louis Food Products Company, St. Louis, Mo. Prepared compressed soup. No. 130,583; Apr. 27; v. 273; p. 805.
St. Louis Lightning Rod Company, St. Louis, Mo. Lightning-rods and parts thereof. No. 130,017; Mar. 23; v. 272; p. 731.
St. Louis Rubber Cement Co., St. Louis, Mo. Rubber cements, tread-filler, tire-tape, &c. No. 131,846; v. 274; p. 834.
St. Louis Rubber Cement Co., St. Louis, Mo. Graphite, soapstone, and mica. No. 135,080; Sept. 21; v. 278; p. 535.
St. Paul Garment Mfg. Co., St. Paul, Minn. Outer coats and vests for men, women, and children. No. 131,847; May 25; v. 274; p. 834.
Staads, Soeren W., Sioux City, Iowa. Cocoa and cereal beverages. No. 136,200; Oct. 26; v. 279; p. 724.
Stack Construction Company, Duluth, Minn. Fabricated concrete building material. No. 136,201; Oct. 26; v. 279; p. 724.
Stahel, Edward P., & Co., New York, N. Y. Linen, &c., canvas, dress-linens, &c. No. 129,545; Feb. 24; v. 271; p. 681.
Stalfort, John C., & Sons, Baltimore, Md. Dyes and boot and shoe powder. No. 136,643; Nov. 2; v. 280; p. 188.
Stalfort, John C., & Sons, Baltimore, Md. Leather and canvas shoe dressing and polishes. No. 137,708; Nov. 30; v. 280; p. 1000.
Standard Accessory Corporation, Milwaukee, Wis. Electrical-lighting attachments for sound-reproducing machines. No. 133,829; Aug. 3; v. 277; p. 177.
Standard Asphalt & Refining Co., Chicago, Ill. Asphaltic paints. No. 136,945; Nov. 9; v. 280; p. 383.
Standard Bottling and Extract Co., Boston, Mass. Non-alcoholic beverages and syrups for making the same. No. 132,250; June 15; v. 275; p. 620.
Standard Brewing Co., New Orleans, La. Malt cereal beverage. No. 136,644; Nov. 2; v. 280; p. 188.
Standard By-Products Co., Incorporated, Louisville, Ky. Digester-tankage, a food for stock. No. 133,045; July 6; v. 276; p. 204.
Standard Canning Co. Ltd., Stavanger, Norway, and Long Beach, Calif. Canned fish. No. 136,645; Nov. 2; v. 280; p. 188.
Standard Chemical Works, Reading, Pa. Combined insecticide and fungicide. Nos. 131,626–7; May 18; v. 274; p. 608.
Standard Cooper-Bell Co., Chicago, Ill. Enamel and oil paints, stains, &c. No. 129,084; Jan. 20; v. 270; p. 476.
Standard Corset Company, Newark, N. J. Corsets. No. 130,413; Apr. 20; v. 273; p. 623.
Standard Cotton Company of America, Wilmington, Del., and Philadelphia, Pa. Lint-cotton. No. 133,515; July 27; v. 276; p. 772.
Standard Export Cigarette Corporation, New York, N. Y. Cigarettes. No. 133,324; July 20; v. 276; p. 592.
Standard Gas Engine Co., Oakland, Calif. Marine and stationary gas-engines and hoists for same. No. 134,193; Aug. 17; v. 277; p. 582.
Standard Kid Manufacturing Company, Boston, Mass. Upper-leathers. No. 130,414; Apr. 20; v. 273; p. 624.
Standard Kid Mfg. Co., Boston, Mass. Finished skins. No. 132,251; June 15; v. 275; p. 620.
Standard Manufacturing Company, Erie, Pa. Trousers. No. 132,542; June 22; v. 275; p. 823.
Standard, O. L., Dry Goods Company, Huntington, W. Va. Knitted hosiery, underwear, and sweaters, work-shirts for men and boys. No. 131,241; May 4; v. 274; p. 200.
Standard Oil Company of New York, New York, N. Y. Refined oils. No. 128,526; Jan. 6; v. 270; p. 184.
Standard Oil Company of New York, New York, N. Y. Refined oil. No. 131,843; May 25; v. 274; p. 834.
Standard Oil Company of New York, New York, N. Y. Kerosene, gasolene, naphtha, &c. No. 131,844; May 25; v. 274; p. 834.
Standard Oil Company of New York, New York, N. Y. Kerosene, gasolene, naphtha, lubricating oils and greases. No. 132,252; June 15; v. 275; p. 620.
Standard Oil Company, New York, N. Y. Isopropyl alcohol. No. 134,818; Sept. 14; v. 278; p. 360.
Standard Oil Company, Whiting, Ind., and Chicago, Ill. Cutting-oil. No. 136,646; Nov. 2; v. 280; p. 188.
Standard Oil Company, Whiting, Ind., and Chicago, Ill. Lubricating-grease. No. 136,946; Nov. 9; v. 280; p. 383.
Standard Oil Company, Whiting, Ind., and Chicago, Ill. Lubricating-grease. No. 137,476; Nov. 23; v. 280; p. 800.
Standard Optical Co., Geneva, N. Y. Sepctacle and eyeglass frames, &c. No. 128,863; Jan. 13; v. 270; p. 343.
Standard Optical Company, The, Geneva, N. Y. Optical lenses and goggles. No. 135,545; Oct. 12; v. 279; p. 346.
Standard Paint Company, The, Boundbrook, N. J., and New York, N. Y. Composition roofing, wall-board, and building papers. No. 132,051; June 8; v. 275; p. 416.
Standard Parts Company, The, Cleveland Ohio. Vehicle axles and springs. No. 130,928; May 4; v. 274; p. 191.
Standard Products Co., The, Buffalo, N. Y. Polish for floors, furniture, woodwork, and automobile-bodies. No. 133,325; July 20; v. 276; p. 592.
Standard Products Supply Co., Minneapolis, Minn. Honey, peanut-butter, and ice-cream cones. No. 131,628; May 18; v. 274; p. 608.
Standard Steel Car Company, Pittsburgh, Pa. Railway-car. No. 138,404; Dec. 21; v. 281; p. 571.
Standard Steel Corp., Milwaukee, Wis. Chemical closets. No. 130,116; Apr. 6; v. 273; p. 181.
Standard Tent & Awning Co., The, Toledo, Ohio. Overalls. No. 130,415; Apr. 20; v. 273; p. 624.
Standard Textile Products Company, The, Youngstown, Ohio, and New York, N. Y. Specially-treated cloth. No. 137,477; Nov. 23; v. 280; p. 800.
Standard Tobacco Company, Inc., New York, N. Y. Cigarettes. No. 134,819; Sept. 14; v. 278; p. 360.
Standard Tobacco Company, Incorporated, New York, N. Y. Chewing and smoking tobacco. No. 130,581; Apr. 27; v. 273; p. 805.
Standard Ultramarine Co., The Huntington, W. Va. Laundry blue. No. 128,527; Jan. 6; v. 270; p. 184.
Standard Union Company, Augusta, Me., and Boston, Mass. Pipe joints or couplings. No. 131,629; May 18; v. 274; p. 608.
Standard Varnish Works, New York, N. Y. Paints and painters' material. No. 132,253; June 15; v. 275; p. 620.
Standard Varnish Works, New York, N. Y. Dry, ready-mixed, and paste paints and enamel paints. No. 135,077; Sept. 21; v. 278; p. 535.
Standard Woodwork Co., Cleveland, Ohio. Cribs and kitchen-tables. No. 136,647; Nov. 2; v. 280; p. 188.

Digitized by Google

Standex Manufacturing Corporation, Chicago, Ill. Lubricating systems. No. 137,066; Nov. 16; v. 280; p. 584.

Stanford, Daisy M., Brooklyn, N. Y. Frocks for children. No. 138,349; Dec. 21; v. 281; p. 567.

Stanford Seed Co., Inc., The, Binghamton, Buffalo, and Albany, N. Y. Seeds. No. 134,820; Sept. 14; v. 278; p. 360.

Stanislawski, Bronislaw J., Conshohocken, Pa. Waterproof shoe-paste. No. 136,947; Nov. 9; v. 280; p. 383.

Stanley & Griffin, Lowell, Mass. Preparation for treatment of consumption and tuberculosis. No. 128,988; Jan. 20; v. 270; p. 473.

Stanley & Griffin, assignors to Stanley-Griffin, Lowell, Mass. Preparation for treatment of consumption and tuberculosis. No. 134,670; Sept. 14; v. 278; p. 356.

Stanley Rule & Level Company, The, New Britain, Conn. Carpenter's planes. No. 131,371; May 11; v. 274; p. 402.

Stanley Works, New Britain, Conn. Buckles. No. 130,117; Apr. 6; v. 273; p. 181.

Stanwood Motor Car Company, St. Louis, Mo. Automobiles and motor-trucks. No. 134,440; Aug. 31; v. 277; p. 974.

Staples & Seefeld, Milwaukee, Wis. Attaching members for vehicle non-skid tread members. No. 138,128; Dec. 14; v. 281; p. 401.

Star Bedding Company, St. Louis, Mo. Feather pillows. No. 128,528; Jan. 6; v. 270; p. 184.

Star Bedding Company, St. Louis, Mo. Feathers. No. 130,416; Apr. 20; v. 273; p. 624.

Star Binding & Trimming Co., The, New York, N. Y. Glove-binding. No. 132,052; June 8; v. 275; p. 416.

Star Binding & Trimming Co., Inc., The, New York, N. Y. Glove-binding. No. 135,078; Sept. 21; v. 278; p. 535.

Star Company, New York, N. Y. Newspaper-section. Nos. 136,648–9; Nov. 2; v. 280; p. 188.

Star Drilling Machine Company, The, Akron, Ohio. Well-drilling machinery and tools and steam-engines. No. 138,129; Dec. 14; v. 281; p. 401.

Star Oil Company, Chicago, Ill. Automobile dynamo, crank-case, &c., lubricating oils and greases. No. 131,630; May 18; v. 274; p. 608.

Star Pea Huller Company, Chattanooga, Tenn. Internal-explosive engines and baling-presses. No. 137,866; Dec. 7; v. 281; p. 198.

Star Shirt Manufacturing Company, New York, N. Y. Men's negligée shirts and pajamas. No. 132,543; June 22; v. 275; p. 823.

Stark Tuscarawas Co., The, Canton, Ohio. Non-intoxicating cereal malt beverage. No. 136,650; Nov. 2; v. 280; p. 188.

Starko Drug Manufacturing Co., Inc., Buffalo, N. Y. Liniment. No. 137,478; Nov. 23; v. 280; p. 800.

Starlight, Max E., New York, N. Y. Cigars and cheroots. Nos. 133,830–3; Aug. 3; v. 277; p. 177.

Starr Fruit Products Co., Portland Oreg. Canned fruits. No. 132,817; June 29; v. 275; p. 1019.

Starr Piano Company, The, Richmond, Ind. Phonographs. No. 135,876; Oct. 19; v. 279; p. 536.

State Specialty Co., Moundsville, W. Va. Candy. Nos. 138,130–1; Dec. 14; v. 281; p. 401.

States Company, The, Hartford, Conn. Electrical transformers. No. 134,821; Sept. 14; v. 278; p. 361.

Stavisky & Greenstone Inc., New York, N. Y. Silk in the piece. No. 133,516; July 27; v. 276; p. 772.

Stavanger, Electro-Staalverk, A. S., Stavanger, Norway. Steel. No. 135,536; Oct. 12; v. 279; p. 345.

Staybestos Manufacturing Company, Philadelphia, Pa. Brake-linings. No. 136,948; Nov. 9; v. 280; p. 383.

Steam Corporation, The, Chicago, Ill. Liquid-fuel burners or heaters. No. 135,537; Oct. 12; v. 279; p. 346.

Steam Tractor, Auto & Mfg. Company, Sioux City, Iowa. Piston-rings. No. 129,888; Mar. 9; v. 272; p. 368.

Stearns, Frederick, & Co., Detroit, Mich. Medicated soap. No. 128,864; Jan. 13; v. 270; p. 343.

Stearns, Frederick, & Co., Detroit, Mich. Talcum powders, perfumes, &c. No. 128,865; Jan. 13; v. 270; p. 343.

Stearns, Frederick, & Co., Detroit, Mich. Perfumes, talcum and face powders, toilet waters, &c. No. 129,546; Feb. 24; v. 271; p. 681.

Stearns, Frederick, & Co., Detroit, Mich. Toilet soaps. No. 132,053; June 8; v. 275; p. 416.

Stearns-Hollinshead Co., Portland, Oreg. Candies. No. 132,818; June 29; v. 275; p. 1019.

Stearns-Hollinshead Co., Portland, Oreg. Candies of all kinds. No. 128,869; Jan. 13; v. 270; p. 344.

Stearns McKay Manufacturing Co., Marblehead, Mass. Ready-mixed paints. No. 135,574; Oct. 12; v. 279; p. 348.

Stearns Rubber Products Company, Chicago, Ill. Rubber patches for repairing rubber or fabric articles. No. 137,709; Nov. 30; v. 280; p. 1000.

Stearyte Co., The, New York, N. Y. Stearate of zinc, as employed by manufacturers of toilet preparations. No. 135,079; Sept. 21; v. 278; p. 535.

Stedman, James H., Braintree, Mass. Soles and heels for shoes. No. 137,710; Nov. 30; v. 280; p. 1000.

Steele Packing Co., San Diego, Calif. Canned sardines. No. 128,529; Jan. 6; v. 270; p. 184.

Steele Wedeles Company, Chicago, Ill. Peanut-oil. No. 128,870; Jan. 13; v. 270; p. 344.

Steelead Skylight Co., Seattle, Wash. Skylight-bars. No. 133,326; July 20; v. 276; p. 593.

Steell, Edgar M., assignor to Porcupine Manufacturing Company, Spokane, Wash. Automobile-tire patches and inner liners. No. 134,822; Sept. 14; v. 278; p. 361.

Steffen, F. and J., Dayton, Ohio. Assorted candies. No. 135,539; Oct. 12; v. 279; p. 346.

Steger & Co., Portland, Oreg. Tonic for the bones, teeth, blood, and nerves. No. 129,890; Mar. 9; v. 272; p. 368.

Steiger & Kerr Stove & Foundry Co., San Francisco, Calif. Wood, coal, and combined wood or coal and gas stoves, ranges, and heaters. No. 132,819; June 29; v. 275; p. 1019.

Stein, A., & Company, Chicago, Ill. Garters, hose-supporters, and armbands. No. 130,238; Apr. 13; v. 273; p. 404.

Stein, A., & Company, Chicago, Ill. Publication issued quarterly. No. 137,067; Nov. 16; v. 280; p. 584.

Stein, A., & Company, Chicago, Ill. Children's waists and union-suits. No. 137,479; Nov. 23; v. 280; p. 800.

Stein, A., & Company, Chicago, Ill. Monthly bulletin. No. 138,132; Dec. 14; v. 281; p. 401.

Stein, Annie, San Francisco, Calif. Medicinal preparation for the treatment of certain named diseases. No. 135,819; Oct. 19; v. 279; p. 532.

Stein, Henry J., Boston, Mass. Syrups, &c., for soft drinks. No. 138,133; Dec. 14; v. 281; p. 401.

Stein, Jacob, New York, N. Y. Dress-shields. No. 136,651; Nov. 2; v. 280; p. 188.

Stein, Jacob, Sheboygan, Wis. Brooms. No. 137,711; Nov. 30; v. 280; p. 1000.

Steinam, A., Company, Inc., New York, N. Y. Cotton goods in the piece. No. 129,891; Mar. 9; v. 272; p. 368.

Steinberg, Max, New York, N. Y. Embroideries in the piece. No. 135,538; Oct. 12; v. 279; p. 346.

Steinberg, Morris, New York, N. Y. Salad-dressing. No. 132,254; June 15; v. 275; p. 620.

Steinfeld Bros., New York, N. Y. Wheeled children's beds and cribs. No. 133,517; July 27; v. 276; p. 772.

Stein-Hall Manufacturing Co., Wilmington, Del., and Chicago, Ill. Starch product used in baking. No. 128,866; Jan. 13; v. 270; p. 343.

Stein-Hall Manufacturing Company, Wilmington, Del., and Chicago, Ill. Starch product for an ingredient in baking. No. 129,085; Jan. 20; v. 270; p. 476.

Steinwender-Stoffregen Coffee Company, St. Louis, Mo. Food-flavoring extracts, roasted coffee. No. 129,086; Jan. 20; v. 270; p. 476.

Stenco Engineering Company, The, Dayton, Ohio. Float-gages, fluid-gages, and Ullage-gages. No. 135,820; Oct. 19; v. 279; p. 532.

Stephens-Adamson Manufacturing Co., Aurora, Ill. Roller-brackets for belt conveyers. No. 134,194; Aug. 17; v. 277; p. 582.

Stephens, Henry M., Blevins, Ark. Cantaloups. No. 138,350; Dec. 21; v. 281; p. 567.

Stephens, Jay Q., Kansas City, Mo. Ice-cream cones. No. 137,480; Nov. 23; v. 280; p. 801.

Stephenson Underwear Mills, South Bend, Ind. Underwear of knitted fabrics. No. 137,481; Nov. 23; v. 280; p. 801.

Steppacher, Walter M., & Bro. Inc., Philadelphia, Pa. Men's and children's clothing of cotton, silk, and woolen fabrics. No. 133,518; July 27; v. 276; p. 772.

Steppacher, Walter M., & Bro., Inc., Philadelphia, Pa. Pajamas and underwear for men and children. No. 137,922; Dec. 7; v. 281; p. 202.

Sterling Lumber Co., Cincinnati, Ohio. Millwork, fiber and gypsum wall-boards, &c. No. 132,054; June 8; v. 275; p. 416.

Sterling Manufacturing Company, Chicago, Ill. House or apron dresses. No. 133,046; July 6; v. 276; p. 204.

Sterling Potato Brittle Co., Wilkes-Barre, Pa. Potato chips. No. 128,530; Jan. 6; v. 270; p. 184.

Sterling Products Co., Evansville, Ind. Catsup, canned vegetables and fruits. No. 130,417; Apr. 20; v. 273; p. 624.

Sterling Products Company, Cleveland, Ohio. Construction material. No. 131,242; May 4; v. 274; p. 200.

Sterling Products, (Incorporated,) Wheeling, W. Va. Hair and scalp tonic. No. 128,871; Jan. 13; v. 270; p. 344.

Sterling Shoes Corporation, Buffalo, N. Y. Leather fabrics and combination of leather and fabric boots and shoes. No. 135,342; Sept. 28; v. 278; p. 705.

Sterling Varnish Company, Pittsburgh, Pa. Varnish for the surface of rubber tires. No. 129,087; Jan. 20; v. 270; p. 476.

Sterling Varnish Company, The, Pittsburgh, Pa. Varnish for electric insulation. No. 133,047; July 6; v. 276; p. 204.

Stern Brothers & Company, New York, N. Y. Ring and ring-mountings. No. 132,255; June 15; v. 275; p. 620.

Stern Brothers & Company, New York, N. Y. Bead neck-chains, bracelets, and crosses. No. 132,256; June 15; v. 275; p. 620.

Stern Brothers & Company, New York, N. Y. Hatpins, scarf and baby pins. No. 132,257; June 15; v. 275; p. 620.

Digitized by Google

Stern Brothers & Company, New York, N. Y. Lockets, fobs, pendants, and ear-rings. No. 132,258; June 15; v. 275; p. 620.
Stern, Charles, & Sons Inc., Los Angeles, Calif. Canned fruits. No. 128,531; Jan. 6; v. 270; p. 184.
Stern, Charles, & Sons Inc., Los Angeles, Calif. Canned peaches and canned apricots. Nos. 128,867–8; Jan. 13; v. 270; p. 343.
Stern, Charles, Sons Inc., Los Angeles, Calif. Canned fruits. Nos. 128,872–3; Jan. 13; v. 270; p. 344.
Stern, Charles, & Sons Inc., Los Angeles, Calif. Canned fruits. No. 129,225; Jan. 27; v. 270; p. 616.
Stern, Charles & Sons, Inc., Los Angeles, Calif. Canned fruits. No. 131,243; May 4; v. 274; p. 200.
Stern, Giles & Riemer, Inc., New York, N. Y. Clothing. No. 136,202; Oct. 26; v. 279; p. 724.
Stern Milling Company, Inc., Milwaukee, Wis. Rye-flour. Nos. 130,930–1; May 4; v. 274; p. 191.
Stern Milling Company, Inc., Milwaukee, Wis. Rye-flour. No. 134,092; Aug. 10; v. 277; p. 391.
Sterns, Limited, London, England. Lubricating oils and greases. No. 136,652; Nov. 2; v. 280; p. 188.
Sterrett, Robert M., Jamaica, N. Y. Preparation for the treatment of acidosis. No. 129,892; Mar. 9; v. 272; p. 368.
Stetson, John B., Company, Philadelphia, Pa. Felt hats and caps. No. 130,418; Apr. 20; v. 273; p. 624.
Stevens, Chas. A., & Bros., Chicago, Ill. Corsets. No. 138,351; Dec. 21; v. 281; p. 567.
Stevens, Isaac F., Nashua, N. H. Refrigerators. No. 136,950; Nov. 9; v. 280; p. 383.
Stevens, Isaac F., Nashua, N. H. Refrigerators. No. 137,482; Nov. 23; v. 280; p. 801.
Stevens, Moore, Atlantic City, N. J. Tooth-paste or dentifrice. No. 138,204; Dec. 14; v. 281; p. 407.
Stevenson, E. A., & Company, Wilmington, Del. Cocoanut-butter. No. 128,532; Jan. 6; v. 270; p. 184.
Stewart Bros. & Company, Glasgow, Scotland. Trouserings, saxonies, and piece goods. No. 128,533; Jan. 6; v. 270; p. 184.
Stewart Dickson & Company, Inc., Boston, Mass. Fibrous steam-packing. No. 137,483; Nov. 23; v. 280; p. 801.
Stewart, Floyd J., Centerville, Iowa. Leather and fabric leggins. No. 130,419; Apr. 20; v. 273; p. 624.
Stewart, Francis G., Chicago, Ill. Food-syrup. No. 132,055; June 8; v. 275; p. 416.
Stewart, Francis G., Chicago, Ill. Polish for aluminum. No. 134,093; Aug. 10; v. 277; p. 391.
Stewart, Francis G., Chicago, Ill. Polish for silver, gold, and nickel. No. 134,094; Aug. 10; v. 277; p. 391.
Stewart, George W., New York, N. Y. Novelty wind instrument. No. 132,820; June 29; v. 275; p. 1019.
Stewart, Helen, Columbus, Ohio. Liniment used in the treatment of all kinds of pain. No. 135,821; Oct. 19; v. 279; p. 532.
Stewart Motor Corporation, The, Buffalo, N. Y. Motor-trucks and automobiles. No. 129,818; Feb. 10; v. 271; p. 356.
Stewart Motor Corporation, Buffalo, N. Y. Motor-trucks and passenger-automobiles. No. 130,932; May 4; v. 274; p. 191.
Stewart-Warner Speedometer Corporation, Chicago, Ill. Warning-signals. No. 130,118; Apr. 6; v. 273; p. 181.
Stewart-Warner Speedometer Corporation, Chicago, Ill. Fuel-feeding systems for internal-combustion engines. No. 133,834; Aug. 3; v. 277; p. 177.
Stewart, Wm. A., Chicago, Ill. Coffee. No. 129,547; Feb. 24; v. 271; p. 681.
Stickney Color Company, Indianapolis, Ind. A polish for varnished and enameled surfaces. No. 131,845; May 25; v. 274; p. 834.
Stieglitz, A., & Co. Inc., New York, N. Y. Hosiery. No. 130,582; Apr. 27; v. 273; p. 805.
Stiles-Pellens Coffee Co., Cincinnati, Ohio. Baking-powder. No. 128,534; Jan. 6; v. 270; p. 184.
Stiles-Pellens Coffee Co., Cincinnati, Ohio. Tea, spices, cocoa, &c. No. 131,244; May 4; v. 274; p. 200.
Stilling-Andersen, B., Inc., New York, N. Y. Butter. No. 134,095; Aug. 10; v. 277; p. 391.
Stine Screw Holes Company, Waterbury, Conn. Anchor-sockets for screws. No. 130,420; Apr. 20; v. 273; p. 624.
Stitt Ignition Co., The, Columbus, Ohio. Spark-plugs. No. 133,048; July 6; v. 276; p. 204.
Stitzel, E. E., & Son., Philadelphia, Pa. Automobile and furniture polish. No. 134,823; Sept. 14; v. 278; p. 361.
Stivers, George W., New York, N. Y. Novelty wind-operated musical instruments in the nature of a whistle. No. 137,484; Nov. 23; v. 280; p. 801.
Stocks, Clarence L., Blue Ridge, Ga. Antiseptic germicide and deodorant. No. 132,544; June 22; v. 275; p. 823.
Stoddard, Gilbert & Co., Inc., New Haven, Conn. Candy. No. 138,134; Dec. 4; v. 281; p. 401.
Stokes Milling Co., Watertown, S. D. Wheat-flour. No. 130,933; May 4; v. 274; p. 191.
Stokes Seed Farms Company, Moorestown, N. J. Flower, field, and vegetable seeds of all descriptions. No. 133,519; July 27; v. 276; p. 772.
Stollwerck Brothers, Inc., Stamford, Conn., assignor to The Stollwerck Chocolate Company, Boston, Mass. Chocolate and cocoa. No 130,934; May 4; v. 274; p. 191.
Stollwerck Chocolate Company, The, Stamford, Conn., and New York, N. Y. Cocoa and chocolate. Nos. 132,545–6; June 22; v. 275; p. 823.
Stoltz, Melville, St. Louis, Mo. Toy savings-bank. No 133,049; July 6; v. 276; p. 204.
Stone & Andrew Inc., Boston, Mass. Writing and printing paper. No. 129,088; Jan. 20; v. 270; p. 476.
Stone, Buford R., Reidsville, N. C. Laxative cold-tablets, cocoanut-oil shampoo, iron-rust and stain remover. No. 132,823; June 29; v. 275; p. 1019.
Stone, Chas. D., & Co., Chicago, Ill. Hosiery. No. 128,874; Jan. 13; v. 270; p. 344.
Stone, F. T., Mildura, Victoria, Australia. Herbaceous mixtures for treating asthma and other human diseases. No. 132,547; June 22; v. 275; p. 823.
Stone, Junius H., New York, N. Y. Prepared felt for construction purposes. No. 133,327; July 20; v. 276; p. 593.
Stone, Junius H., New York, N. Y. Flexible-fabric-coating paint for acoustical work. No. 133,328; July 20; v. 276; p. 593.
Stone-Tarlow Co. Inc., Brockton, Mass. Boots and shoes. No. 138,517; Dec. 28; v. 281; p. 784.
Stopshok Wheel Co., Inc., Washington, D. C. Vehicle-wheels. No. 129,224; Jan. 27; v. 270; p. 616.
Stork, Chas T., & Co., Inc., New York, N. Y. Condensed milk. No. 136,653; Nov. 2; v. 280; p. 188.
Storm King Coal Mining Company. (See Storm King Coal Company.)
Storm King Coal Company, assignor to Storm King Coal Mining Company, Jeff, Ky. Coal. No. 132,822; June 29; v. 275; p. 1019.
Story & Clark Piano Company, Chicago, Ill. Pianos, piano-players, and organs. Nos. 130,019–20; Apr. 6; v. 273; p. 181.
Stout, Charles F., Rice Lake, Wis. Cigars. No. 130,935; May 4; v. 274; p. 191.
Stowe, Charles D., Asheville, N. C. Medicine for treatment of the liver and kidneys. No. 132,548; June 22; v. 275; p. 823.
Stowell Gribble Chemical Company, Savannah, Ga. Wax automobile-polish. No. 134,825; Aug. 24; v. 277; p. 783.
Stowell Manufacturing Co., Jersey City, N. J. Non-metallic fireproof sheet-roofing materials and roofing-shingles. No. 136,951; Nov. 9; v. 280; p. 383.
Stowell Manufacturing Company, Jersey City, N. J. Roofing-shingles. No. 136,952; Nov. 9; v. 280; p. 383.
Strand, N. A., & Company, Chicago, Ill. Flexible shafting. No. 133,835; Aug. 3; v. 277; p. 178.
Strasenburgh, R. J., Company, Rochester, N. Y. Medicinal preparation for nervous exhaustion and functional disorders of women. No. 132,824; June 29; v. 275; p. 1019.
Stratford, George, Oakum Co., Jersey City, N. J. Oakum. No. 137,047; Nov. 16; v. 280; p. 584.
Strathmore Paper Company, West Springfield, Mass. Paper and stationery. Nos. 132,825–7; June 29; v. 275; p. 1019.
Strathmore Paper Company, West Springfield, Mass. Wedding, ledger, photomount, &c., papers, &c. No. 137,485; Nov. 23; v. 280; p. 801.
Strathmore Paper Company, West Springfield, Mass. Cover and book paper, cardboard, &c. No. 137,712; Nov. 30; v. 280; p. 1000.
Stratigos, E., Cleveland, Ohio. Hat-bleaching compound. No. 132,549; June 22; v. 275; p. 823.
Straub, Gustav L., New York, N. Y. Natural prepared floral wreath. No. 134,824; Sept. 14; v. 278; p. 361.
Straus, Louis, Inc., San Francisco, Calif. Boys' suits. No. 132,551; June 22; v. 275; p. 824.
Straus, Moses, San Francisco, Calif. Self-vulcanising patches. No. 133,837; Aug. 3; v. 277; p. 178.
Straus, Royer & Strauss, Inc, Baltimore, Md. Middy-blouses. No. 133,836; Aug. 3; v. 277; p. 178.
Straus, Simon, Portsmouth, Ohio. Bread. No. 138,121; Dec. 14; v. 281; p. 301.
Strauss, Jesse, Chicago, Ill. Polish for cleaning and polishing pianos, furniture, &c. No. 132,550; June 22; v. 275; p. 823.
Strauss, Levi, & Co., San Francisco, Calif. Clothing. No. 138,352; Dec. 21; v. 281; p. 567.
Strauss, Max, New York, N. Y. Silk piece goods. No. 129,893; Mar. 9; v. 272; p. 369.
Strauss, Max, New York, N. Y. Woven and knitted silk piece goods. No. 135,204; Oct. 26; v. 279; p. 724.
Strayhorn, Oscar P., St. Louis, Mo. Pharmaceutical preparation used in dressing the hair and cleansing the scalp. No. 135,081; Sept. 21; v. 278; p. 535.
Street, J. D., & Company, Inc., St. Louis, Mo. Lubricating-oils. No. 137,512; Nov. 23; v. 280; p. 804.
Stripes Citrus Packing Co., Fort Myers, Fla. Citrus fruits—namely, oranges, grape-fruit, lemons, &c. No. 134,442; Aug. 31; v. 277; p. 974.
Strohmeyer & Arpe Company, New York, N. Y. Foods and ingredients of foods. No. 130,936; May 4; v. 274; p. 191.
Stromberg, Benjamen, New York, N. Y. Men's soft silk collars. No. 134,825; Sept. 14; v. 278; p. 361.
Stromborg Export & Import Co., Inc., New York, N. Y., assignor to Jonkopings & Vulcans Tandstickfabrik, Jönköping, Sweden. Matches. Nos. 130,121–8; Apr. 6; v. 273; p. 182.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Stromberg Export & Import Co., Inc., New York, N. Y., assignors to Jonkopings & Vulcans Tandsticksfabriks Aktiebolag, Jonkopings, Sweden. Matches. No. 136,654; Nov. 2; v. 280; p. 188.
Stromeyer, Julius, Philadelphia, Pa. Table-syrups in sealed containers. No. 136,205; Oct. 26; v. 279; p. 725.
Strong, Carlisle & Hammond Company, The, Cleveland, Ohio. Annealing, tempering, forging, case-hardening, and melting metallurgical furnaces. No. 134,826; Sept. 14; v. 278; p. 361.
Stroock, Ely, New York, N. Y. Clothing. No. 136,206; Oct. 26; v. 279; p. 725.
Strutwear Knitting Company, Minneapolis, Minn. Hosiery. No. 131,848; May 25; v. 274; p. 834.
Strype, Fred C., New York, N. Y. Wrapping and printing papers. No. 134,096; Aug. 10; v. 277; p. 391.
Stuart, D. A., & Co., Chicago, Ill. Cutting-oils. No. 134,443; Aug. 31; v. 277; p. 974.
Stuart, Ellis V., Indianapolis, Ind. Ignition-wire conduits. No. 133,050; July 6; v. 276; p. 204.
Stuart, Orsini, Liverpool, England. Ash and coal bags. No. 133,838; Aug. 3; v. 277; p. 178.
Stuart Products Corporation, Chicago, Ill. Electric batteries. No. 133,051; July 6; v. 276; p. 204.
Studdert, John B. (See Cureton and Studdert, assignors,)
Stumpp & Walter Co., New York, N. Y. Lawn-grass seed. No. 138,405; Dec. 21; v. 281; p. 571.
Sturm, Leo F., New York, N. Y. Clothing—viz., leather coats. No. 132,552; June 22; v. 275; p. 824.
Stuttgart Rice Mill Company, Stuttgart, Ark. Rice. Nos. 129,089–90; Jan. 20; v. 270; p. 476.
Stuttgart Rice Mill Company, Stuttgart, Ark. Rice. No. 130,421; Apr. 20; v. 273; p. 624.
Stuttgart Rice Mill Company, Stuttgart, Ark. Rice. No. 131,245; May 4; v. 274; p. 200.
Suchard, S. A., Serrieres, Switzerland. Chocolate. No. 134,285; Aug. 24; v. 277; p. 779.
Suchard, S. A., Serrieres, Switzerland. Chocolate with hazel-nut. No. 138,135; Dec. 14; v. 281; p. 401.
Sue, Narm S., Modesto, Calif. Medicinal preparation for the treatment of influenza. No. 131,631; May 18; v. 274; p. 609.
Suffern, Robert A., New York, N. Y. Cotton piece goods. Nos. 129,894–5; Mar. 9; v. 272; p. 369.
Suffern, Robert A., New York, N. Y. Cotton piece goods. No. 130,584; Apr. 27; v. 273; p. 805.
Suffern, Robert A., Plainfield, N. J. Cotton piece goods. No. 133,520; July 27; v. 276; p. 772.
Suffolk Brewing Company, Boston, Mass. Cereal malt beverage. Nos. 135,082–3; Sept. 21; v. 278; p. 535.
Sulfiron Medicine Company, Birmingham, Ala. Medicine for indigestion, pellagra, &c. No. 128,875; Jan. 13; v. 270; p. 344.
Sullivan, Henry C., Hertford, N. C. Shelled and unshelled peanuts. No. 130,422; Apr. 20; v. 273; p. 624.
Sullivan Machinery Company, Boston, Mass. Machinery. No. 134,326; Aug. 24; v. 277; p. 783.
Sullivan, Mary E., Richmond, Va. Dentifrice and antiseptic deodorant. No. 132,828; June 29; v. 275; p. 1020.
Sultanaki, John G., Savannah, Ga. Herb tea. No. 133,523; July 27; v. 276; p. 772.
Summer, Henry H., Jackson, Tenn. Non-alcoholic, non-cereal, maltless beverages, and flavors for same. No. 133,841; Aug. 3; v. 277; p. 178.
Summerill Tubing Company, Bridgeport, Pa. Base-metal tubing. No. 136,655; Nov. 2; v. 280; p. 188.
Summers, Charles G. & Co., Inc., Baltimore, Md. Canned fruits and vegetables. No. 136,656; Nov. 2; v. 280; p. 188.
Summit Thread Company, East Hampton, Conn. Mercerized-cotton thread or yarn. No. 133,052; July 6; v. 276; p. 204.
Sun Company, Philadelphia, Pa. Wool washing and treating oils. No. 128,876; Jan. 13; v. 270; p. 344.
Sun Company, Philadelphia, Pa. Oils and greases. No. 133,187–8; July 13; v. 276; p. 403.
Sun Company, Philadelphia, Pa. Cutting and lubricating oils. Nos. 137,713–14; Nov. 30; v. 280; p. 1001.
Sun Electrical Company, Limited, The, London, England. Electrical fittings. No. 136,207; Oct. 26; v. 279; p. 725.
Sun Gloss Polish Co., Woonsocket, R. I. Furniture, automobile, and piano polish. No. 138,353; Dec. 21; v. 281; p. 567.
Sun-Light Arc Corporation, New York, N. Y. Arc-lights used for illumination and to illuminate motion-picture work, &c. No. 138,136; Dec. 14; v. 281; p. 401.
Sunbeam Chemical Company, Chicago, Ill. Pharmaceutical preparation for skin diseases. No. 131,372; May 11; v. 274; p. 402.
Sunbeam Chemical Company, Chicago, Ill. Dyes combined with soap. No. 132,553; June 22; v. 275; p. 824.
Sunbeam Chemical Company, Chicago, Ill. Dyes combined with soap in form of flakes. No. 132,554; June 22; v. 275; p. 824.
Sunbeam Chemical Company, Chicago, Ill. Dyes combined with soap. Nos. 132,555–6; June 22; v. 275; p. 824.
Sunbeam Chemical Company, Chicago, Ill. Bluing. Nos. 135,084–5; Sept. 21; v. 278; p. 535.
Sunbeam Products Company, Pittsburgh, Pa. Cleaning compounds for oriental rugs, carpets, tapestry, furniture, bathtubs, &c. No. 132,557; June 22; v. 275; p. 824.
Sunderland, W. C., Norwood, Pa. Salve for burns, bruises, bunions, cuts, &c. No. 134,543; Sept. 7; v. 278; p. 161.
Sunderman Corporation, Newburgh, N. Y. Carbureters. No. 135,343; Sept. 28; v. 278; p. 705.
Sunderman Corporation, Newburgh, N. Y. Jacks. No. 136,953; Nov. 9; v. 280; p. 383.
Sunlight Electrical Manufacturing Co., Warren, Ohio. Electric motors. No. 137,486; Nov. 23; v. 280; p. 801.
Sunnyhome Electric Company, Detroit, Mich. Electrical apparatus, machines, and supplies. No. 132,259; June 15; v. 275; p. 620.
Sunnyland Fruit Company, Inc., New York, N. Y. Candies. No. 130,938; May 4; v. 274; p. 191.
Sunset Silk Mills, New York, N. Y. Silk piece goods. No. 131,945; June 1; v. 275; p. 199.
Super-Glass Co., The, Philadelphia, Pa. Sheet-glass. No. 135,086; Sept. 21; v. 278; p. 535.
Superior Builders Supply Co., Little Rock, Ark. Roll composition roofing and shingles. No. 134,097; Aug. 10; v. 277; p. 391.
Superior Cone Company, St. Louis, Mo. Ice-cream cones. No. 129,226; Jan. 27; v. 270; p. 616.
Superior Feed Co., The, Memphis, Tenn. Stock, dairy, and poultry feed. No. 135,344; Sept. 28; v. 278; p. 705.
Superior Steel Corporation, Pittsburgh and Carnegie, Pa. Hot and cold rolled strip-steel. No. 138,137; Dec. 14; v. 281; p. 401.
Supertone Talking Machine Co., Inc., New York, N. Y. Talking-machines and parts thereof. No. 135,087; Sept. 21; v. 278; p. 535.
Supplee-Biddle Hardware Company, Philadelphia, Pa. Tubes and pipes made from ferrous and non-ferrous metal alloys. Nos. 137,867–72; Dec. 7; v. 281; p. 198.
Supplee-Biddle Hardware Company, Philadelphia, Pa. Sheets, plates, and castings made from ferrous and non-ferrous metal alloys. Nos. 137,873–8; Dec. 7; v. 281; pp. 198–9.
Supreme Motors Corporation, Warren, Ohio. Internal-combustion engines and their parts. No. 136,954; Nov. 9; v. 280; p. 383.
Sure Fit Dress Co., Philadelphia, Pa. Dresses. No. 136,657; Nov. 2; v. 280; p. 188.
Surety Tire & Rubber Company, St. Louis, Mo. Inner tubes for pneumatic tires. No. 136,955; Nov. 9; v. 280; p. 384.
Suter, Eugene, & Company, New York, N. Y. Chemicals and chemical oils for the manufacture of fertilizer. No. 133,189; July 13; v. 276; p. 404.
Sutton, Henry C., Rising Star, Tex. Washing-powder. No. 133,842; Aug. 3; v. 277; p. 178.
Sutton, Robert J., Chicago, Ill. Chemical compounds. No. 129,548; Feb. 24; v. 271; p. 681.
Svenska "Indux" Nederlaget, Stockholm, Sweden. Medicinal preparation used in the treatment of rheumatism and neuralgia. No. 129,896; Mar. 9; v. 272; p. 369.
Swaisland, Charles E., Kitchener, Ontario, Canada. Medicine for the treatment of eczema. No. 132,558; June 22; v. 275; p. 824.
Swan & Finch Co., New York, N. Y. Lubricating oils and greases. No. 129,401; Feb. 17; v. 271; p. 509.
Swan & Finch Company, New York, N. Y. Lubricating means for high-speed machines. No. 137,513; Nov. 23; v. 280; p. 804.
Swanson Bros., Chicago, Ill. Coffee. No. 133,843; Aug. 3; v. 277; p. 178.
Sweet Candy Co., Salt Lake City, Utah. Candy. No. 134,444; Aug. 31; v. 277; p. 974.
Sweetsir, Charles L., Lowell, Mass. Bedbug and roach killer. No. 129,897; Mar. 9; v. 272; p. 369.
Swendson, Carl D., St. Paul, Minn. Talking-machines. No. 135,823; Oct. 19; v. 279; p. 532.
Swift & Company, Chicago, Ill. Soap. No. 128,535; Jan. 6; v. 270; p. 184.
Swift and Company, Chicago, Ill. Hams, bacon, and shoulders. No. 130,940; May 4; v. 274; p. 191.
Swift and Company, Chicago, Ill. Hog feed. No. 131,632; May 18; v. 274; p. 609.
Swift and Company, Chicago, Ill. Soap. No. 137,487; Nov. 23; v. 280; p. 801.
Swift Mfg. Co., Columbus, Ga. Cotton piece goods. No. 133,522; July 27; v. 276; p. 772.
Swift, Robert B., New York, N. Y. Women's underwear. No. 129,402; Feb. 17; v. 271; p. 509.
Swindells, Carl O., Providence, R. I. Antiseptic mouth-wash. No. 136,658; Nov. 2; v. 280; p. 188.
Swine Breeders Service, Chicago, Ill. Fumigating liquid. No. 138,518; Dec. 28; v. 281; p. 784.
Swisky, Robert, Chicago, Ill. Hat-brushes. No. 133,053; July 6; v. 276; p. 204.
Sydney Ross Company, Inc., New York, N. Y. Medicinal preparation for colds, neuralgia, &c. No. 129,403; Feb. 17; v. 271; p. 509.
Sylvester & Levy, Inc., New York, N. Y. Cotton cloths in the piece. No. 135,824; Oct. 19; v. 279; p. 532.
Symington, T. H., Company, The, New York and Rochester, N. Y. Malleable castings. No. 131,633; May 18; v. 274; p. 609.
Symms-Brownell Manufacturing Company, Sioux Falls, S. D. Spark-plugs. No. 136,956; Nov. 9; v. 280; p. 384.
Symonds, Frank P., Salem, Mass. Lubricating-oil. No. 132,829; June 29; v. 275; p. 1020.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Symonds, Frank P., Salem, Mass. Witch-hazel, disinfectant, insect-exterminators, fortified ammonia. No 135,088; Sept. 21; v. 278; p. 535.

Synvita Products Company, The, Lima, Ohio. Flavoring compounds for foods. No. 136,659; Nov. 2; v. 280; p. 188.

Szczepkowski, Miroslav, Chicago, Ill. Medicine for indigestion, kidney trouble, constipation, &c. No. 131,849; May 25; v. 274; p. 834.

T. D. S. Co., The, Pasadena, Calif. Blood-purifier in the form of a liquid solution. No. 135,089; Sept. 21; v. 278; p. 535.

Tabachnik, Abraham, New York, N. Y. Dress, negligée, and work shirts. No. 129,549; Feb. 24; v. 271; p. 681.

Tagit Company, The, Rockford, Ill. Tag-affixing machines. No. 136,957; Nov. 9; v. 280; p. 384.

Tagliabue, C. J., Mfg. Co., Brooklyn, N. Y. Thermometers, gages, &c. Nos. 128,877–8; Jan. 13; v. 270; p. 344.

Tagliabue, Charles J., Mfg. Co., Brooklyn, N. Y. Clinical thermometers, sphygmomanometers, hypodermic needles and syringes. Nos. 133,054–5; July 6; v. 276; p. 204.

Takamine Laboratory Inc., New York, N. Y. Quinin ethyl carbonate. No. 132,830; June 29; v. 275; p. 1020.

Talbert-Whitmore Company, Los Angeles, Calif. Shade-cloth. No. 130,423; Apr. 20; v. 273; p. 624.

Talbert-Whitmore Company, Los Angeles, Calif. Paper window-shades. No. 133,845; Aug. 3; v. 277; p. 178.

Talcum Puff Company, Brooklyn, N. Y. Toilet preparations, talcum powder. No. 132,559; June 22; v. 275; p. 824.

Talcum Puff Company, Brooklyn, N. Y. Toilet preparations—namely, talcum powder. No. 133,524; July 27; v. 276; p. 772.

Talcum Puff Company, Brooklyn, N. Y. Talcum powder. No. 138,505; Dec. 28; v. 281; p. 784.

Tampa Dairy Co., Tampa, Fla. Ice-cream. No. 130,941; May 4; v. 174; p. 191.

Tanner-Gross, W. P., & Company, Inc., New York, N. Y. Wheat-flour. No. 130,942; May 4; v. 174; p. 191.

Tanner-Gross, W. P., & Company, Inc., New York, N. Y. Wheat-flour. No. 131,634; May 18; v. 274; p. 609.

Tanner-Gross, W. P., & Company, Inc, New York, N. Y. Wheat-flour. No. 132,831; June 29; v. 275; p. 1020.

Tanner-Gross, W. P., & Company, Inc., New York, N. Y. Wheat-flour. No. 133,056; July 6; v. 276; p. 204.

Tanner-Gross, W. P., & Company, New York, N. Y. Wheat and rye flour. Nos. 134,099–102; Aug. 10; v. 277; p. 391.

Tanner-Gross, W. P., & Company, Inc., New York, N. Y. Wheat-flour, cornmeal, and rolled oats. No. 134,286; Aug. 24; v. 277; p. 779.

Tanner-Gross, W. P., & Company, Inc., New York, N. Y. Corn flour, grits, and meal. No. 136,208; Oct. 26; v. 279; p. 725.

Tanner-Gross, W. P., & Company, Inc., New York, N. Y. Cornmeal. No. 136,209; Oct. 26; v. 279; p. 725.

Tanner-Gross, W. P., & Company, Inc., New York, N. Y. Wheat-flour. No. 136,210; Oct. 6; v. 279; p. 725.

Tanners Oil and Supply Company, Newark, N. J. Agents to be used in tanning and finishing leather. No. 137,879; Dec. 7; v. 281; p. 199.

Tansey, Owen H., Montreal, Quebec, Canada. Wash or spray for treatment of the mouth, throat, &c. No. 133,057; July 6; v. 276; p. 204.

Tapo Citrus Ass'n., Santa Susana, Calif. Fresh citrus fruits. No. 128,536; Jan. 6; v. 270; p. 185.

Tarson, Andrew W., Chicago, Ill. Soap. No. 138,138; Dec. 14; v. 281; p. 401.

Tate Manufacturing Company, Boston, Mass. Braided rope. No. 133,058; July 6; v. 276; p. 204.

Tatom, Eric, & Co., Nashville, Tenn. Cigars. No. 128,540; Jan. 6; v. 270; p. 185.

Tatum Co., Samuel C., Cincinnati, Ohio. Calendar-pads. No. 131,850; May 25; v. 274; p. 834.

Taugher, Thos. E., Mount Vernon, Ohio. Cigars. No. 133,525; July 27; v. 276; p. 772.

Taunton Knitting Company, Taunton, Mass. Men's, boys', and children's union-suits and two-piece underwear. No. 137,514; Nov. 23; v. 280; p. 804.

Taves, C. W., Co., Chicago, Ill. Hosiery and underwear. No. 133,329; July 20; v. 276; p. 593.

Taylor Bros., Camden, N. J. Automobile accessories—viz., spark-plugs. No. 136,211; Oct. 26; v. 279; p. 725.

Taylor Bros., Camden, N. J. Automobile accessories—namely, spark plugs. No. 136,661; Nov. 2; v. 280; p. 188.

Taylor, Chas. W., Mr. and Mrs., Louisville, Ky. Preparation for the treatment of consumption. No. 137,715; Nov. 30; v. 280; p. 1001.

Taylor, Clapp & Beall, New York, N. Y. Cotton piece goods. No. 131,851; May 25; v. 274; p. 834.

Taylor Coal Company, Chicago, Ill. Bituminous coal. No. 132,832; June 29; v. 275; p. 1020.

Taylor, E. E., Company, Boston, Mass. Rubber heels and soles. No. 128,537; Jan. 6; v. 270; p. 185.

Taylor, E. E., Company, Boston, Mass. Leather boots and shoes. No. 129,091; Jan. 20; v. 270; p. 476.

Taylor Instrument Companies, Rochester, N. Y. Hydrometers. No. 135,540; Oct. 12; v. 279; p. 346.

Taylor-Friedsam Company, The, Paterson, N. J., and New York, N. Y. Silk ribbons in the piece. No. 133,059; July 6; v. 276; p. 204.

Taylor, Isaac H., Atlanta, Ga. Liver-pills. No. 133,846; Aug. 3; v. 277; p. 178.

Taylor, Mary D., Largo, Fla. Jams, marmalades, and jellies. No. 132,260; June 15; v. 275; p. 620.

Taylor, Milton M., Tampa, Fla. Remedy for inactive liver. No. 128,538; Jan. 6; v. 270; p. 185.

Taylor, Milton M., Tampa, Fla. Antiseptic preparation. No. 128,539; Jan. 6; v. 270; p. 185.

Taylor, Raymond E., Portland, Oreg. Pharmaceutical preparations. No. 137,716; Nov. 30; v. 280; p. 1001.

Taylor, Thos. P., Company, The, Bridgeport, Conn. Garters. No. 135,541; Oct. 12; v. 279; p. 346.

Taylor, Tunnicliff and Company, Limited, Hanley, England. Electric insulators made of porcelain. No. 133,060; July 6; v. 276; p. 204.

Taylor, Walter, Hammondsport, N. Y. Unfermented grape-juice. No. 136,602; Nov. 2; v. 280; p. 188.

Taylor, Walter, Hammondsport, N. Y. Grape-juice. No. 137,392; Nov. 23; v. 280; p. 798.

Taylor, Winfield S., Trenton, N. J. Medicinal preparation for the treatment of coughs, croup, and whooping-cough. No. 135,345; Sept. 28; v. 278; p. 705.

Tedford, W. L., Little Rock, Ark. Tires, tubes, and casing-patch. No. 134,827; Sept. 14; v. 278; p. 361.

Tedmor Waist Company, New York, N. Y. Outer waists. No. 137,717; Nov. 30; v. 280; p. 1001.

Tee-O Mfg. Co., New York, N. Y. Rice wafers. No. 132,833; June 29; v. 275; p. 1020.

Tel-O-Tone Phonograph Company. (See The Western News Company, assignor.)

Tel-Til-Tip Co., Holland, Mich. Metallic plugs or inserts for boot and shoe heels. No. 137,880; Dec. 7; v. 281; p. 199.

Templar Motors Corporation, Cleveland, Ohio. Automobiles and motor-cars. No. 131,246; May 4; v. 274; p. 200.

Templeton, Kenly & Co., Ltd., Chicago, Ill. Lifting-jacks. No. 132,560; June 22; v. 275; p. 824.

Tenenbaum, J., & Sons, New York, N. Y. Ladies' hats. No. 129,227; Jan. 27; v. 270; p. 616.

Tennessee Biscuit Company, Nashville, Tenn. Soda crackers, vanilla wafers, cookies, &c. No. 137,881; Dec. 7; v. 281; p. 199.

Tennessee Biscuit Company, Nashville, Tenn. Certain named foods. No. 138,139; Dec. 14; v. 281; p. 401.

Tennessee Coal, Iron & Railroad Company, Birmingham, Ala. Plain, corrugated, round, square, and flat iron and steel. No. 134,195; Aug. 17; v. 277; p. 582.

Tennessee Furniture Corporation, Chattanooga, Tenn. Combined kitchen-cabinets and refrigerators. No. 137,718; Nov. 30; v. 280; p. 1001.

Tennessee Furniture Corporation, Chattanooga, Tenn. Portable serving-tables. No. 137,719; Nov. 30; v. 280; p. 1001.

Ternstedt Manufacturing Co., Detroit, Mich. Window-regulators. No. 138,140; Dec. 14; v. 281; p. 401.

Terre Haute Brewing Company, Terre Haute, Ind. Cereal malt beverage. No. 129,228; Jan. 27; v. 270; p. 616.

Terre Hill Hosiery Company, Terre Hill, Pa. Hosiery. No. 129,550; Feb. 24; v. 271; p. 681.

Terry, Herbert, & Sons Ld., Redditch, England. Pocket-clips for fountain-pens and pencils, paper-clips, &c. No. 132,834; June 29; v. 275; p. 1020.

Terry, Herbert, & Sons, Ltd., Redditch, England. Fancy goods, furnishings, and notions. No. 133,190; July 13; v. 276; p. 404.

Terry, Michael A., New York, N. Y. Aqueous adhesive liquid serving as an earth-binder and dust-layer. No. 136,212; Oct. 26; v. 279; p. 725.

Tete, Jules F., New Orleans, La. Salve for burns, boils, bruises, old sores, and fresh cuts. No. 132,561; June 22; v. 275; p. 824.

Tetlow, Henry, Co., Philadelphia, Pa. Face and talcum powders, perfume, &c. No. 129,970; Mar. 9; v. 272; p. 871.

Tetlow, Ida J., Philadelphia, Pa. Toilet preparations. No. 133,526; July 27; v. 276; p. 772.

Tew Patent Development Company, Seattle, Wash. Hardware and plumbing and steamfitting supplies. No. 133,330; July 20; v. 276; p. 593.

Tewksbury, J. Winthrop, New York, N. Y. Electrical heaters for air. No. 133,874; Aug. 3; v. 277; p. 179.

Texas Company, The, Houston, Tex. Kerosene-oil. No. 129,404; Feb. 17; v. 271; p. 509.

Texas Company, The, Houston, Tex., and New York, N. Y. Kerosene. Nos. 136,958–60; Nov. 9; v. 280; p. 384.

Texoleum Co. of N. Y. Inc., New York, N. Y. Oil-cloth, lineolums, &c. No. 129,229; Jan. 27; v. 270; p. 616.

Textile Industrial Institute, Spartanburg, S. C. Knitted, netted, and textile fabrics. No. 129,898; Mar. 9; v. 272; p. 369.

Textile Products Manufacturing Company, St. Louis, Mo. Overalls, jumpers, and work-shirts. No. 130,943; May 4; v. 274; p. 191.

Textile Publishing Company, New York, N. Y. Section of a periodical. No. 136,961; Nov. 9; v. 280; p. 384.

Textile Publishing Company, New York, N. Y. Buyer's directory. No. 136,962; Nov. 9; v. 280; p. 384.

Textile Publishing Company, New York, N. Y. Section of a periodical. No. 136,963; Nov. 9; v. 280; p. 384.

Thacker, D. W., Springfield, Ohio. Coffee. No. 134,287; Aug. 24; v. 277; p. 779.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Thames Drug Company, Beaumont, Tex. Preparation for treatment of dandruff. No. 129,551; Feb. 24; v. 271; p. 681.
Thane, A. F., & Co., San Francisco, Calif. Kerosene. Nos. 137,393–4; Nov. 23; v. 280; p. 798.
Thayer, Henry, & Co. Inc., Cambridge, Mass. Liniment for use in certain named ailments. No. 133,847; Aug. 3; v. 277; p. 178.
Theobald Flour Mills Co., The, Northfield, Minn. Wheat-flour. Nos. 136,213–4; Oct. 26; v. 279; p. 725.
Theodoropoulos, Alexander, New York, N. Y. Ointment for piles. No. 131,635; May 18; v. 274; p. 609.
Thibodeaux, Joseph N., Houston, Tex. Tooth powders and pastes and mouth-washes. No. 132,562; June 22; v. 275; p. 824.
Thom, Charles H., Los Angeles, Calif. Bottled carbonated non-alcoholic non-cereal maltless beverage. No. 131,636; May 18; v. 274; p. 609.
Thomas, Arthur H., Company, Philadelphia, Pa. Sodium-hydrate asbestos absorbent. No. 129,552; Feb. 24; v. 271; p. 681.
Thomas & Betts Co., The, New York, N. Y. Conduits, conductors, and electrical merchandise. No. 133,191; July 13; v. 276; p. 404.
Thomas, David H., Milwaukee, Wis. Dental crowns. No. 129,899; Mar. 9; v. 272; p. 369.
Thomas, Dell W., Seattle, Wash. Pearl jewelry. No. 133,062; July 6; v. 276; p. 204.
Thomas, Louis, Chicago, Ill. Liquid for scalds and burns. No. 128,541; Jan. 6; v. 270; p. 185.
Thomas Manufacturing Company, Dayton, Ohio. Talking-machines. No. 129,900; Mar. 9; v. 272; p. 369.
Thompson Bros. Shoe Co., Brockton, Mass. Boots, shoes, slippers. No. 137,755; Nov. 30; v. 280; p. 1003.
Thompson, Edwin M., Fort Dodge, Iowa. Preparation for use as a seed-preservative from rats, gophers, &c. No. 136,663; Nov. 2; v. 280; p. 188.
Thompson, Gwladys G., St. Louis, Mo. Negligées. No. 129,901; Mar. 9; v. 272; p. 369.
Thompson, Gwladys G., St. Louis, Mo. Negligées. No. 130,044; May 4; v. 274; p. 191.
Thompson, John R., Co., Chicago, Ill. Foods and ingredients of foods. No. 132,835; June 29; v. 275; p. 1020.
Thompson, John R., Co., Chicago, Ill. Bread. No. 134,103; Aug. 10; v. 277; p. 391.
Thompson, John R., Co., Chicago, Ill. Crab-apple jelly, plum jam, canned corn, catsup, &c. No. 134,288; Aug. 24; v. 277; p. 779.
Thompson, John R., Co., Chicago, Ill. Coffee. No. 134,445; Aug. 31; v. 277; p. 974.
Thompson, Mary, Washington, D. C. Hair-tonic. No. 132,563; June 22; v. 275; p. 824.
Thompson Mfg. Co., Oakland, Calif. Velocipedes. No. 130,005; Mar. 16; v. 272; p. 540.
Thompson, Selene P., New York, N. Y. Apparatus symbolizing a journey to the moon. No. 133,527; July 27; v. 276; p. 772.
Thompson Shoe Company, St. Paul, Minn. Boots and shoes made of leather, rubber, and canvas. No. 132,261; June 15; v. 275; p. 620.
Thompson, Victoria, Jacksonville, Fla. Preparation for destroying boll-weevils, &c. No. 131,637; May 18; v. 274; p. 609.
Thomson-Diggs Co., The, Sacramento, Calif. Fishing supplies. No. 136,964; Nov. 9; v. 280; p. 384.
Thomson Electric Welding Co., Boston, Mass. Electric metal-working apparatus. No. 130,018; Mar. 23; v. 272; p. 731.
Thomson Machine Company, Belleville, N. J. Dough balling and proofing machine, rounding-up machines. No. 129,230; Jan. 27; v. 270; p. 616.
Thorndike Company, Thorndike, Mass. Cotton piece goods. No. 129,553; Feb. 24; v. 271; p. 681.
Thorndike and Gerrish Company, Boston, Mass. Dressed poultry. No. 128,542; Jan. 6; v. 270; p. 185.
Thornton, Leslie M., Kansas City, Mo. Polish for the finish on pianos, &c. No. 134,544; Sept. 7; v. 278; p. 161.
Thornton Mineral Springs Company, Thornton, Ill. Non-alcoholic beverages and syrups for making same. No. 131,638; May 18; v. 274; p. 609.
Thornton, Thomas, Roanoke, Va. Salve used in the treatment of pneumonia and influenza. No. 137,395; Nov. 23; v. 280; p. 798.
Three in One Oil Company, Rahway, N. J., and New York, N. Y. Solvent or softener to facilitate the cleaning of certain named articles. No. 133,061; July 6; v. 276; p. 204.
Thrill Exploiting Co., The, Philadelphia, Pa. Non-alcoholic non-cereal maltless beverage and syrup for making same. No. 131,639; May 18; v. 274; p. 609.
Thurston-Bernay Co., San Francisco, Calif. Tool-handles. No. 135,542; Oct. 12; v. 279; p. 346.
Tibbitts-Hewitt Grocery Co., St. Louis, Mo. Canned fruits, vegetables, and fish. No. 137,068; Nov. 16; v. 280; p. 584.
Tiffany & Company, New York, N. Y. Watches and clocks. No. 132,262; June 15; v. 275; p. 620.
Tiffany & Company, New York, N. Y. Jewelry for personal wear. No. 133,063; July 6; v. 276; p. 204.
Tiffany & Company, New York, N. Y. Canes, parasols, and umbrellas. No. 133,528; July 27; v. 276; p. 772.
Tiffany & Company, New York, N. Y. Cutlery and dies for engraving, stamping or embossing stationery. No. 134,196; Aug. 17; v. 277; p. 582.
Tiffany & Company, New York, N. Y. Measuring and scientific appliances. Nos. 134,289–90; Aug. 24; v. 277; p. 779.
Tiffany & Company, New York, N. Y. Medals of base metals and art-bronzes, etched or engraved metal plates. Nos. 134,446–7; Aug. 31; v. 277; p. 974.
Tiffany and Company, New York, N. Y. Table-glassware. Nos. 134,448–9; Aug. 31; v. 277; p. 974.
Tiffany and Company, New York, N. Y. Non-electric lamps, candlesticks, and candelabra. Nos. 134,450–1; Aug. 31; v. 277; p. 974.
Tiffany and Company, New York, N. Y. Electric lamps, candelabra, candlesticks, &c. Nos. 134,828–9; Sept. 14; v. 278; p. 361.
Tiffany & Company, New York, N. Y. Cleaning and polishing materials for jewelry and metal ware. No. 135,090; Sept. 21; v. 278; p. 535.
Tiffany & Company, New York, N. Y. Canes, parasols, and umbrellas. No. 135,091; Sept. 21; v. 278; p. 535.
Tiffany & Company, New York, N. Y. Clothes, hair, and nail brushes, powder-puffs, and whisk-brooms. Nos. 135,825–6; Oct. 19; v. 279; p. 532.
Tiffany & Company, New York, N. Y. Chinaware, bric-a-brac, earthenware, and porcelain. No. 135,827; Oct. 19; v. 279; p. 532.
Tiffany & Company, New York, N. Y. Baggage, portfolios, pocket-books, &c. Nos. 136,215–6; Oct. 26; v. 279; p. 725.
Tiffany & Company, New York, N. Y. Paper and stationery. No. 136,217; Oct. 26; v. 279; p. 725.
Tiffany & Company, New York, N. Y. Fancy goods, furnishings and notions. Nos. 136,218–9; Oct. 26; v. 279; p. 725.
Tiffany & Company, New York, N. Y. Cutlery and dies for engraving stationery. No. 136,664; Nov. 2; v. 280; p. 188.
Tiffany & Company, New York, N. Y. Smokers' articles. Nos. 137,720–21; Nov. 30; v. 280; p. 1001.
Tiffany & Company, New York, N. Y. Playing cards and chips, cribbage-boards. No. 137,722; Nov. 30; v. 280; p. 1001.
Tiffany & Company, New York, N. Y. Chinaware, bric-a-brac, earthenware, &c. No. 137,723; Nov. 30; v. 280; p. 1001.
Tiffany & Company, New York, N. Y. Cleaning and polishing materials for jewelry and precious metal ware. No. 137,882; Dec. 7; v. 281; p. 199.
Tiffany & Company, New York, N. Y. Playing-cards and chips, cribbage-boards. No. 137,883; Dec. 7; v. 281; p. 199.
Tiffany & Company, New York, N. Y. Printed and engraved cards, diplomas, &c. No. 137,884; Dec. 7; v. 281; p. 199.
Tiffany & Company, New York, N. Y. Candles. Nos. 138,354–5; Dec. 21; v. 281; p. 567.
Tiffany & Company, New York, N. Y. Music-boxes. No. 138,356; Dec. 21; v. 281; p. 567.
Tiffany & Company, New York, N. Y. Music-boxes. No. 138,506; Dec. 28; v. 281; p. 784.
Tiffany Furnaces, New York, N. Y. Glassware. No. 131,757; May 25; v. 274; p. 831.
Tiffany Never Wind Clock Corporation, Buffalo, N. Y. Electric clocks and parts thereof. No. 134,327; Aug. 24; v. 277; p. 783.
Tiffin Products, Inc., Long Island City, N. Y. Candies, ice-cream, and pastry. No. 132,056; June 8; v. 275; p. 416.
Tiffin Products, Inc., Long Island, N. Y. Candies. No. 135,092; Sept. 21; v. 278; p. 535.
Tiffin Products, Inc., New York, N. Y. Candy. No. 134,545; Sept. 7; v. 278; p. 161.
Tilden Company, New Lebanon, N. Y., and St. Louis, Mo. Anodyne, antiseptic, and local anesthetic. No. 131,852; May 25; v. 274; p. 834.
Tilden Produce Co., St. Paul, Minn. Fresh eggs. No. 134,546; Sept. 7; v. 278; p. 161.
Tilleman, H. George, New York, N. Y. Carbon-papers and ink-ribbons. No. 135,093; Sept. 21; v. 278; p. 535.
Tilley, B. F., Jr., Mrs., Jamestown, R. I. Candies, glacé nuts, barley toys. No. 134,291; Aug. 24; v. 277; p. 779.
Tillotson, W. E., Manufacturing Company, Pittsfield, Mass. Knitted underwear. No. 136,665; Nov. 2; v. 280; p. 188.
Tillotson, W. E., Manufacturing Company, Pittsfield, Mass. Knitted underwear for adults and children. No. 137,724; Nov. 30; v. 280; p. 1001.
Timmons, Charles S., Snow Hill, Md. Raw potatoes.. No. 130,945; May 4; v. 274; p. 191.
Tioga Manufacturing Company, Philadelphia, Pa. Farm-tractors. No. 136,666; Nov. 2; v. 280; p. 189.
Tiona Refining Company, Philadelphia, Pa. Lubricating-oils. No. 137,069; Nov. 16; v. 280; p. 584.
Tipp Whip Company, The, Tippecanoe City, Ohio. Liquid and paste shampoos. No. 131,853; May 25; v. 274; p. 834.
Tipp Whip Company, The, Tippecanoe City, Ohio. Liquid and paste shampoos. No. 132,836; June 29; v. 275; p. 1020.

Digitized by Google

Titanine, Inc., New York, N. Y. Preparation for preserving waterproofing and coloring textile fabrics, &c. No. 131,854; May 25; v. 274; p. 834.
Titanium Alloy Manufacturing Company, Niagara Falls, N. Y. Compounds of zirconium for use in industrial, chemical, &c., operations. No. 129,554; Feb. 24; v. 271; p. 681.
Tobacco Products Corporation, New York, N. Y. Cigarettes. No. 133,331; July 20; v. 276; p. 593.
Tobacco Products Export Corporation, New York, N. Y. Cigarettes. No. 133,844; Aug. 3; v. 277; p. 178.
Tobias, Chas., Bro. & Company, Cincinnati, Ohio. Children's and men's cloth caps. No. 130,425; Apr. 20; v. 273; p. 624.
Tobias, Chas., Bro. & Company, Cincinnati, Ohio. Children's and men's cloth hats and children's caps. No. 130,426; Apr. 20; v. 273; p. 624.
Tobias, Chas., Bro. & Company, Cincinnati, Ohio. Men's and children's hats. No. 130,427; Apr. 20; v. 273; p. 624.
Toch Brothers, New York, N. Y. Material for hardening and dust-proofing cement or concrete floors. No. 135,828; Oct. 19; v. 279; p. 532.
Todd, George W., Omaha, Nebr. Chewing-gum. No. 129,092; Jan. 20; v. 270; p. 476.
Todd, Kay, and Mondsheim, New York, N. Y. Dresses. No. 136,220; Oct. 26; v. 279; p. 725.
Todd Oil & Paint Co., The, Cleveland, Ohio. Lubricating oils and greases. No. 136,221; Oct. 26; v. 279; p. 725.
Todd, Peyton H., & Son, Atlanta, Ga. General reconstructive tonic and tissue-builder. No. 128,543; Jan. 6; v. 270; p. 185.
Toledo Bridge & Crane Co., Toledo, Ohio. Cranes. No. 138,206; Dec. 14; v. 281; p. 407.
Toledo Cooker Company, Toledo, Ohio. Steam-cookers. No. 130,585; Apr. 27; v. 273; p. 805.
Toledo Enameled Wire Products Co., The, Toledo, Ohio. Wire, particularly magnet-wire. No. 134,830; Sept. 14; v. 278; p. 361.
Toledo Fuel Company, The, Toledo, Ohio. Fuel-oils. No. 131,855; May 25; v. 274; p. 834.
Toledo Fuel Company, The, Toledo, Ohio. Fuel-oils. No. 132,264; June 15; v. 275; p. 621.
Toledo Pipe Threading Machine Co., The, Toledo, Ohio. Pipe-threading machines. No. 138,205; Dec. 14; v. 281; p. 407.
Toledo Scale Company, Jersey City, N. J., and Toledo, Ohio. Publications. No. 129,902; Mar. 9; v. 272; p. 369.
Tolerton & Warfield Co., Sioux City, Iowa. Foods. No. 130,239; Apr. 13; v. 273; p. 404.
Tolerton & Warfield Co., Sioux City, Iowa. Rice, pickles, and olives. No. 130,424; Apr. 20; v. 273; p. 624.
Tomlinson, Albert J., Wichita, Kans. Adhesive liquid composition. No. 137,885; Dec. 7; v. 281; p. 199.
Tomlinson, W. H., & Co., Bay City, Mich. Leather shoes. No. 133,849; Aug. 3; v. 277; p. 178.
Tompkins, Louis W., New York, N. Y. Knitted, netted, and textile fabrics. No. 136,222; Oct. 26; v. 279; p. 725.
Tono-Scalpa Company, Inc., The, Richmond, Va. Hair-dressing. No. 133,529; July 27; v. 276; p. 772.
Toomay Company, Boston, Mass. Finished leather in the piece. No. 130,946; May 4; v. 274; p. 191.
Torres y Ribelles, Seville, Spain. Olive-oil and other edible oils. No. 134,274; Aug. 24; v. 277; p. 779.
Torrington Company, The, Torrington, Conn. Electric vacuum-cleaners. No. 134,864; Sept. 14; v. 278; p. 364.
Torrington Company, The, Torrington, Conn. Phonograph-needles. No. 135,187; Sept. 21; v. 278; p. 540.
Torrington Company, The, Torrington, Conn. Pedals for bicycles, tricycles, motorcycles, &c. No. 135,375; Sept. 28; v. 278; p. 708.
Torrington Company, The, Torrington, Conn. Hand vacuum-cleaners and carpet-sweepers. No. 135,575; Oct. 12; v. 279; p. 348.
Toth, Illes, Washington, D. C. Medicinal jelly for sore throat, &c. No. 128,879; Jan. 13; v. 270; p. 344.
Toth, Illes, Washington, D. C. Medicinal palliative for rheumatism. No. 129,903; Mar. 9; v. 272; p. 369.
Toula, Z. A., Corporation, New York, N. Y. Receptacles to be carried on the wrist to contain powder, &c. No. 137,725; Nov. 30; v. 280; p. 1001.
Touraine Company, The, Boston, Mass. Candy. No. 137,396; Nov. 23; v. 280; p. 798.
Touraine Company, The, Boston Mass. Candy. No. 138,207; Dec. 14; v. 281; p. 407.
Tower, A. J., Company, Boston, Mass. Oil hats and caps. No. 132,564; June 22; v. 275; p. 824.
Tower, Russell B., Boston, Mass. Hair-nets. No. 132,837; June 29; v. 275; p. 1020.
Towle Maple Products Company, Wilmington, Del., and St. Paul, Minn. Confection paste. No. 128,544; Jan. 6; v. 270; p. 185.
Towle Sons, Inc., San Francisco, Calif. Sauce. No. 135,543; Oct. 12; v. 279; p. 346.
Townsend, E. M., & Co., New York, N. Y. Hosiery. No. 130,947; May 4; v. 274; p. 191.
Toy Tinkers, The, Evanston, Ill. Dolls, figure toys, rattles, duck-games, &c. No. 135,346; Sept. 28; v. 278; p. 705.
Tractor Train Company, Los Angeles, Calif. Automobile auxiliary transmission machinery. No. 138,208; Dec. 14; v. 281; p. 407.
Trade Laboratories, Inc., Newark, N. J. Shaving-cream. No. 136,223; Oct. 26; v. 279; p. 725.
Traders' Box & Lumber Company, Rochester, N. Y. Cribbeds. No. 134,831; Sept. 14; v. 278; p. 361.
Tramontin, Amelia, Dravosburg, Pa. Healing-salve composition for the treatment of varicose veins, &c. No. 131,640; May 18; v. 274; p. 609.
Trane Company, The, La Crosse, Wis. Radiator-traps. No. 132,838; June 29; v. 275; p. 1020.
Transcontinental Oil Co., Pittsburgh, Pa. Oils and greases. No. 137,726; Nov. 30; v. 280; p. 1001.
Traster, Roy C., Kansas City, Mo. Confection containing a laxative ingredient. No. 131,641; May 18; v. 274; p. 609.
Trau & Loevner, Pittsburgh, Pa., and New York, N. Y. Neckties and cravats. No. 135,544; Oct. 12; v. 279; p. 346.
Traub, Lazar M., Boston, Mass. Men's, women's, and children's shoes. No. 128,545; Jan. 6; v. 270; p. 185.
Traub, Lewis & Co., New York, N. Y. Veilings and nettings in the piece. No. 130,948; May 4; v. 274; p. 191.
Traub Manufacturing Company, The, Detroit, Mich. Jewelry. No. 134,105; Aug. 10; v. 277; p. 391.
Traver, F. C., Paper Co., The, Chicago, Ill. Paper and paper products. No. 134,104; Aug. 10; v. 277; p. 391.
Treefilm Company, Inc., New York, N. Y. Cinematographic films. No. 134,197; Aug. 17; v. 277; p. 582.
Treisman Bro's & Diversi Co., Concord, N. H. Candies and nuts. No. 132,057; June 8; v. 275; p. 416.
Trent, Lorenzo D., Ironton, Ohio. Preparation for treatment of certain named diseases. No. 129,093; Jan. 20; v. 270; p. 476.
Trenton Potteries Company, Trenton, N. J. Plumbers' supplies of earthenware. No. 132,058; June 8; v. 275; p. 416.
Trexler Rim Compressor Co., Philadelphia, Pa. Tire-removing tools. No. 129,231; Jan. 27; v. 270; p. 616.
Tri-City Sales Company, Cincinnati, Ohio. Confectionery. No. 130,129; Apr. 6; v. 273; p. 182.
Trifari & Krussman, Inc., New York, N. Y. Metal shoe-buckles, combs, hairpins. No. 130,950; May 4; v. 274; p. 191.
Trimm, Leslie E., Broklyn, N. Y. Tents. No. 130,006; Mar. 16; v. 272; p. 540.
Triner, Joseph, Company, Chicago, Ill. Laxative stomachic tonic. No. 129,904; Mar. 9; v. 272; p. 369.
Tripi, F. C., & Co., Inc., Buffalo, N. Y. Teas and coffees. No. 132,565; June 22; v. 275; p. 824.
Tripod Paint Co., The, Atlanta, Ga. White lead and ready-mixed paints. No. 137,070; Nov. 16; v. 280; p. 584.
Tripod Paint Co., The, Atlanta, Ga. Mill-white. No. 137,071; Nov. 16; v. 280; p. 584.
Tripod Paint Co., The, Atlanta, Ga. Wood-stains. No. 137,515; Nov. 23; v. 280; p. 804.
Tripod Paint Co., The, Atlanta, Ga. Flat wall-paint. No. 137,727; Nov. 30; v. 280; p. 1001.
Tripod Paint Co., The, Atlanta, Ga. Varnish-stains. No. 137,728; Nov. 30; v. 280; p. 1001.
Trippe, Barker & Co., New York, N. Y. Cotton skirtings in the piece. No. 136,224; Oct. 26; v. 279; p. 725.
Trippe, Barker & Co., New York, N. Y. Cotton cloth in the piece. No. 136,225; Oct. 26; v. 279; p. 725.
Trippe, Barker & Co., New York, N. Y. Warp sateen piece goods for lingerie. No. 136,668; Nov. 2; v. 280; p. 189.
Trippe, Graham, Atlanta, Ga. Game-board. No. 137,886; Dec. 7; v. 281; p. 199.
Trommer, John F., Evergreen Brewery, Brooklyn, N. Y. Non-alcoholic malt beverage. No. 128,880; Jan. 13; v. 270; p. 344.
Tropics Corporation, The, New York, N. Y. Logs for sawmill material. No. 132,839; June 29; v. 275; p. 1020.
Tropics Corporation, The, New York, N. Y. Timber and lumber, dressed and undressed. No. 132,840; June 29; v. 275; p. 1020.
Tropics Corporation, The, New York, N. Y. Leather hides. No. 133,064; July 6; v. 276; p. 204.
Tropics Corporation, The, New York, N. Y. Sugar. No. 134,106; Aug. 10; v. 277; p. 391.
Troth, Ernest A., Philadelphia, Pa. Liquid preparation for use as a mouth-wash and nasal douche. No. 128,881; Jan. 13; v. 270; p. 344.
Trotter, Joseph W., Birmingham, Ala. Gasolene. No. 132,265; June 15; v. 275; p. 621.
Trout, Chas. L., Company, Inc., New York, N. Y. Finger-rings. Nos. 131,856-8; May 25; v. 274; p. 834.
Trovillo, Lottie S., Blanchester, Ohio. Canned vegetables and fruits, jellies, &c. No. 128,546; Jan. 6; v. 270; p. 185.
Troy Carriage Sun Shade Company, The, Troy, Ohio. Mailing-packages. No. 137,887; Dec. 7; v. 281; p. 199.
Troy Dry Goods Co. Inc., Troy, N. Y. Groceries. No. 135,347; Sept. 28; v. 278; p. 705.
Tru-Aim Manufacturing Company, Chicago, Ill. Golf-putters. No. 133,065; July 6; v. 276; p. 204.
True, Dr. J. F., & Co., Inc., Auburn, Me. Vermifuge and remedies for indigestion, biliousness, headache, colds, &c. No. 134,832; Sept. 14; v. 278; p. 361.
True-Matic Tire and Tube Company, Wilmington, Del., and Wellington, Ohio. Automobile-tires composed principally of rubber. No. 138,507; Dec. 28; v. 281; p. 784.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Truman, Charles H. J., San Francisco, Calif. Partially-printed sheets for keeping funeral-records. No. 128,547; Jan. 6; v. 270; p. 185.
Trumbo, Stacy D., Columbus, Ohio. Catamenial bandage. No. 133,044; July 6; v. 276; p. 204.
Trumbull Electric Manufacturing Company, The, Plainville, Conn. Switches, switch and panel boards, cut-outs, fuse-blocks, electrical receptacles, &c. No. 135,829; Oct. 19; v. 279; p. 532.
Trumbull-Vanderpoel Electric Mfg. Co., Bantam, Conn. Electric knife and safety switches and panel-boards. No. 131,859; May 25; v. 274; p. 834.
Trumper, Max, Montgomery, Ala. Pure culture of nitrogen-gathering bacteria for inoculating seeds prior to sowing. No. 134,452; Aug. 31; v. 277; p. 974.
Trussell Manufacturing Co., Poughkeepsie, N. Y. Account-book. No. 137,729; Nov. 30; v. 280; p. 1001.
Tubbs Cordage Company, San Francisco, Calif. Rope. No. 130,130; Apr. 6; v. 273; p. 182.
Tubular Woven Fabric Company, Pawtucket, R. I. Electric portable cables. No. 134,107; Aug. 10; v. 277; p. 391.
Tubular Woven Fabric Company, Pawtucket, R. I. Insulated-wire conductors. No. 134,108; Aug. 10; v. 277; p. 391.
Tuchschmidt, Eugene A., St. Louis, Mo. Candies. No. 138,141; Dec. 14; v. 281; p. 401.
Tucker, Henry D., Avenel, N. J. Knockdown sand-boxes. No. 133,530; July 27; v. 276; p. 772.
Tucker, John T., Chattanooga, Tenn. Salve used in the treatment of colds, coughs, sore throat, &c. No. 131,642; May 18; v. 274; p. 609.
Tulchinsky, Benjamin, Chicago, Ill. Hats, caps, and neckwear. No. 135,348; Sept. 28; v. 278; p. 705.
Tulley, James, Peoria, Ill. Salves and ointments for the treatment of certain named ailments. No. 135,830; Oct. 19; v. 279; p. 532.
Tullograph Art Company, Los Angeles, Calif. Posters, display-cards, &c. No. 138,142; Dec. 14; v. 281; p. 401.
Tunnell, F. W., & Company, Inc., Philadelphia, Pa. Vegetable adhesive. No. 128,548; Jan. 6; v. 270; p. 185.
Turell and Friedman, New York, N. Y. Cotton piece goods. No. 129,971; Mar. 9; v. 272; p. 371.
Turnbull Electric Manufacturing Company, Inc., New York, N. Y. Tungsten and nitrogen incandescent electric lamps. No. 136,965; Nov. 9; v. 280; p. 384.
Turner, Catherine C., Spokane, Wash. Talking-board or question-answering device. No. 135,349; Sept. 28; v. 278; p. 706.
Turner Furnishing Goods Company, Springfield, Mo. Clothing. Nos. 136,226–7; Oct. 26; v. 279; p. 725.
Turner & Harrison Pen Mfg. Co., Inc., The, Philadelphia, Pa. Steel pen-points. No. 132,841; June 29; v. 275; p. 1020.
Turner Machine & Manufacturing Company, The, Kansas City, Mo. Automobile axles and drive-shafts. No. 136,669; Nov. 2; v. 280; p. 189.
Turner Manufacturing Company, Port Washington, Wis. Tractors. No. 131,643; May 18; v. 274; p. 609.
Turner & Walls, New York, N. Y. Silk and cotton piece goods and combinations of same. No. 131,247; May 4; v. 274; p. 200.
Turner & Walls, New York, N. Y. Broadcloth. No. 131,644; May 18; v. 274; p. 609.
Turner & Walls, New York, N. Y. Silk and cotton piece goods and combinations of same. No. 133,067; July 6; v. 276; p. 204.
Turner, William G., Brooklyn, N. Y. Tooth-filling. No. 130,951; May 4; v. 274; p. 191.
Turney, John J., Philadelphia, Pa. Cigarettes. No. 130,952; May 4; v. 274; p. 191.
Tuschel, Gustave, Atlanta, Ga. Varnish or polish for furniture, automobiles, &c. No. 137,888; Dec. 7; v. 281; p. 199.
Tushak, Gerald, New York, N. Y. Toy guns. No. 128,549; Jan. 6; v. 270; p. 185.
Tuttle, W. E., Co., The, Rochester, N. Y. Shoes of leather and a combination of leather and fabric. No. 134,833; Sept. 14; v. 278; p. 361.
Tuttle, W. E., Company, Rochester, N. Y. Misses' and children's shoes. No. 137,516; Nov. 23; v. 280; p. 804.
Tuttle, William S., Rutland, Vt. Legal blanks. No. 136,966; Nov. 9; v. 280; p. 384.
Tuvin, Louis A., Baltimore, Md. Preparation for use as a tonic for general debility, &c. No. 129,905; Mar. 9; v. 272; p. 369.
Tweedie Footwear Corporation, Jefferson City, Mo. Overgaiters and spats. No. 137,398; Nov. 23; v. 280; p. 798.
Twin City Varnish Company, St. Paul, Minn. Thin liquid varnish. No. 136,670; Nov. 2; v. 280; p. 189.
Twin Falls Dehydrating Co. Twin Falls, Idaho. Dehydrated vegetables and fruits. No. 133,066; July 6; v. 276; p. 204.
Tyler Chemical Company, Pawtucket, R. I. Preparation for cleansing purposes. No. 136,671; Nov. 2; v. 280; p. 189.
Tyler & Company, Junction City, Kans. Hard-wheat flour. No. 135,831; Oct. 19; v. 279; p. 532.
Tyler, G. H., & Co., Cincinnati, Ohio. Belts for supporting wearing-apparel. No. 134,547; Sept. 7; v. 278; p. 161.
Tyson, B. E., Newark, N. J. Medicinal preparation for influenza, rheumatism, &c. No. 128,550; Jan. 6; v. 270; p. 185.
Tyson & Co., Paris, Tenn. Soap. No. 137,072; Nov. 16; v. 280; p. 584.
U and I Toy Company, The, Lorain, Ohio. Children's toy vehicle. No. 135,350; Sept. 28; v. 278; p. 706.
U. S. Brewers & Bottlers Supply Export Co. Inc., New York, N. Y. Bottle-caps. No. 135,546; Oct. 12; v. 279; p. 346.
U. S. Compression Inner Tube Co., Tulsa, Okla. Pneumatic inner tubes. No. 135,877; Oct. 19; v. 279; p. 536.
U. S. Emergency Ration Corp., Belleville, N. J. Concentrated food comprising a combination of any form of bread and chocolate. No. 132,844; June 29; v. 275; p. 1020.
U. S. Fire Extinguisher Co., Syracuse, N. Y. Fire-extinguishing compounds. No. 135,096; Sept. 21; v. 278; p. 535.
U. S. Garter & Suspender Company, Chicago, Ill. Garters, hose-supporters, armbands, and suspenders. No. 135,352; Sept. 28; v. 278; p. 706.
U. S. Industrial Alcohol Co., New York, N. Y. Fuels containing alcohol and liquid fuels containing alcohol and hydrocarbon. No. 130,020; Mar. 23; v. 272; p. 731.
U. S. Industrial Alcohol Co., New York, N. Y. Fusel-oil or amyl alcohol, denatured alcohol, cologne-spirits. No. 131,652; May 18; v. 274; p. 609.
U. S. Industrial Alcohol Co., New York, N. Y. Ethyl alcohol. No. 131,861; May 25; v. 274; p. 834.
U. S. Industrial Alcohol Co., New York, N. Y. Ethyl alcohol for use as cleanser or detergent or similar solvent. No. 132,063; June 8; v. 275; p. 416.
U. S. Industrial Alcohol Co., New York, N. Y. Ethyl alcohol. No. 133,069; July 6; v. 276; p. 205.
U. S. Industrial Co., New York, N. Y. Chemicals. No. 129,234; Jan. 27; v. 270; p. 617.
U. S. Pharmaceutical Manufacturing Company, New York, N. Y. Cough medicine. No. 134,524; Sept. 7; v. 278; p. 160.
U. S. Reduction & Atomizing Co., Herrin, Ill., and St. Louis, Mo. Coal products. No. 135,547; Oct. 12; v. 279; p. 346.
U. S. Toy & Novelty Co., New York, N. Y. Dolls and toy animals. No. 130,132; Apr. 6; v. 273; p. 182.
U. S. Sanitary Specialties Corporation, Chicago, Ill. Deodorizing devices. No. 136,679; Nov. 2; v. 280; p. 189.
U. S. Sanitary Specialties Corporation, Chicago, Ill. Soap-dispensers. No. 136,971; Nov. 9; v. 280; p. 384.
Ubiko Milling Company, The, St. Bernard, Ohio. Dairy ration. No. 132,059; June 8; v. 275; p. 416.
Ullman Electric Company, The, Boston, Mass. Arc and incandescent electric lamps, &c. No. 138,143; Dec. 14; v. 281; p. 401.
Ullman, Nathan, New York, N. Y. Broad silks in the piece. No. 136,967; Nov. 9; v. 280; p. 384.
Ulmann, Bernhard, Co., Inc., New York, N. Y. Art-needlework publication. No. 138,144; Dec. 14; v. 281; p. 402
Ulmer Leather Co., Norwich, Conn. Belt-dressing. No. 128,551; Jan. 6; v. 270; p. 185.
Ulmer Leather Co., The, Norwich, Conn. Leather belting. No. 129,906; Mar. 9; v. 272; p. 369.
Ulmer Leather Co., The, Norwich, Conn. Leather belting. No. 136,968; Nov. 9; v. 280; p. 384.
Ulmer Leather Company, The, Norwich, Conn. Leather, finished and partly finished. No. 132,060; June 8; v. 275; p. 416.
Ulmer Leather Company, The, Norwich, Conn. Leather, finished and partly finished, and particularly picker-leather. No. 133,531; July 27; v. 276; p. 772.
Ultramares Corporation, New York, N. Y. Dyes. No. 129,907; Mar. 9; v. 272; p. 369.
Ultramares Corporation, New York, N. Y. Cotton, woolen, linen, and silk piece goods and combinations thereof. No. 129,908; Mar. 9; v. 272; p. 369.
Ultramares Corporation, New York, N. Y. Wrapping and writing paper. No. 129,909; Mar. 9; v. 272; p. 369.
Ultramares Corporation, New York, N. Y. Printing-ink. No. 129,910; Mar. 9; v. 272; p. 369.
Ultramares Corporation, New York, N. Y. Leather. No. 130,240; Apr. 13; v. 273; p. 404.
Ultramares Corporation, New York, N. Y. Dress-fasteners. No. 130,241; Apr. 13; v. 273; p. 404.
Ultramares Corporation, New York, N. Y. Building-cement. No. 130,242; Apr. 13; v. 273; p. 404.
Ultramares Corporation, New York, N. Y. Flour. No. 131,248; May 4; v. 274; p. 200.
Ultramarine Company, The, Jersey City, N. J., and New York, N. Y. Bluing. No. 138,519; Dec. 28; v. 281; p. 784.
Umbaugh, Lou W., Ohio City, Ohio. Liniment for treatment for certain named diseases and affections. No. 131,373; May 11; v. 274; p. 402.
Umreychik, Stefan E., Dallas, Tex. Rheumatism remedy. No. 129,555; Feb. 24; v. 271; p. 681.
Uncas Manufacturing Company, Providence, R. I. Finger-rings, pins, and bracelets. No. 134,110; Aug. 10; v. 275; p. 391.
Underdown, Americus R., Haddonfield, N. J. Clothing. No. 133,851; Aug. 3; v. 277; p. 178.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Underwood, Frederick D., New York, N. Y. Fresh milk and cream, eggs, and butter. No. 128,552; Jan. 6; v. 270; p. 185.
Underwood Typewriter Company, New York, N. Y. Typewriting-machines. No. 131,645; May 18; v. 274; p. 609.
Underwood Typewriter Company, New York, N. Y. Typewriting machine and parts. No. 134,865; Sept. 14; v. 278; p. 364.
Underwood, William, Company, Boston, Mass. Canned sardines. No. 134,453; Aug. 31; v. 277; p. 974.
Unexcelled Manufacturing Company, Inc., New York, N. Y. Fireworks. No. 133,532; July 27; v. 276; p. 772.
Unexcelled Manufacturing Company, New York, N. Y. Fireworks. No. 135,094; Sept. 21; v. 278; p. 535.
Unexcelled Shirt Co., New York, N. Y. Men's negligée shirts. No. 138,357; Dec. 21; v. 281; p. 567.
Ungerer & Company, Inc., New York, N. Y. Resins and volatile oils for imparting scent to toilet preparations. No. 131,646; May 18; v. 274; p. 609.
Union Asbestos & Rubber Company, Chicago, Ill. Machinery packing. No. 129,911; Mar. 9; v. 272; p. 369.
Union Auto Specialties Co., San Francisco, Calif. Autolenses. No. 130,429; Apr. 20; v. 273; p. 624.
Union Bag & Paper Corporation, Jersey City, N. J., and New York, N. Y. Paper bags. No. 130,019; Mar. 23; v. 272; p. 731.
Union Bag & Paper Corporation, Jersey City, N. J., and New York, N. Y. Wrapping-papers. No. 131,647; May 18; v. 274; p. 609.
Union City Manufacturing Co., Union City, Tenn. Waterproof goods. No. 130,953; May 4; v. 274; p. 191.
Union City Manufacturing Co., Union City, Tenn. Waterproof goods. No. 132,566; June 22; v. 275; p. 824.
Union Cutlery Co., Olean, N. Y. Pocket-cutlery, razors, shears, and butcher-knives. No. 130,954; May 4; v. 274; p. 191.
Union Cutlery Co., Olean, N. Y. Pocket-cutlery, razors, shears, and butcher-knives. No. 131,648; May 18; v. 274; p. 609.
Union Joe Overalls Co., Inc., New Orleans, La. Overalls. No. 132,567; June 22; v. 275; p. 824.
Union Metal Manufacturing Company, Canton, Ohio. Metal foundry-flasks, bottom boards for same, coreplates. No. 131,649; May 18; v. 274; p. 609.
Union Metal Manufacturing Company, The, Canton, Ohio. Metal columns for building purposes. No. 136,969; Nov. 9; v. 280; p. 384.
Union Pacific Tea Co., New York, N. Y. Foods. No. 130,428; Apr. 20; v. 273; p. 624.
Union Smelting & Refining Co., Inc., Newark, N. J. Antifriction bearing metals. No. 130,586; Apr. 27; v. 273; p. 805.
Union Special Machine Company, Chicago, Ill. Sewing-machines and parts thereof. No. 133,332; July 20; v. 276; p. 593.
Union Special Machine Company, Chicago, Ill. Sewing-machine needles. No. 135,351; Sept. 28; v. 278; p. 706.
Union Special Machine Company, Chicago, Ill. Sewing-machine needles. Nos. 135,832–5; Oct. 19; v. 279; p. 532.
Union Special Machine Company, Chicago, Ill. Sewing-machine needles. Nos. 136,228–9; Oct. 26; v. 279; p. 725.
Union Steam Pump Company, Battle Creek, Mich. Machines for effecting emulsion and producing homogeneous and emulsified mixtures. No. 131,249; May 4; v. 274; p. 200.
Union Tool Company, Torrance, Calif. Tractors, steam and gas engines. No. 128,553; Jan. 6; v. 270; p. 185.
Union Tool Company, Torrance, Calif. Oil and Artesian well drilling and operating equipment and machinery. No. 129,314; Feb. 10; v. 271; p. 356.
Unique Novelty Co., Los Angeles, Calif., and Independence, Iowa. Planchette-boards. No. 130,955; May 4; v. 274; p. 191.
United American Metals Corporation, Brooklyn, N. Y. Babbitt metal. No. 128,882; Jan. 13; v. 270; p. 344.
United American Metals Corporation, Brooklyn, N. Y. Babbitt metal. No. 129,232; Jan. 27; v. 270; p. 617.
United American Metals Corporation, New York, N. Y. Babbitt metal. No. 133,192; July 13; v. 276; p. 404.
United American Metals Corporation, Brooklyn, N. Y. Non-ferrous alloys. No. 134,454; Aug. 31; v. 277; p. 974.
United American Metals Corporation, Brooklyn, N. Y. Babbitt metal. No. 136,672; Nov. 2; v. 280; p. 189.
United American Metals Corporation, Brooklyn, N. Y. Non-ferrous alloys. No. 136,731; Nov. 2; v. 280; p. 192.
United Baking Co., Louisville, Ky. Bread. No. 136,230; Oct. 26; v. 279; p. 725.
United Battery Service Company, Montgomery, Ala. Battery-containers. No. 138,359; Dec. 21; v. 281; p. 567.
United Beverage Company, Marinette, Wis. Beverages. No. 138,145; Dec. 14; v. 281; p. 402.
United Brush Manufactories, New York, N. Y. Paint and varnish brushes. No. 130,131; Apr. 6; v. 273; p. 182.
United Brush Manufactories, New York, N. Y. Brushes used as sash-tools. No. 130,243; Apr. 13; v. 273; p. 404.
United Canneries Company of California, Oakland, Calif. Canned peaches and apricots. No. 132,842; June 29; v. 275; p. 1020.
United Drug and Candy Manufacturing Company, The, Cleveland, Ohio. Chocolate candy. No. 134,114; Aug. 10; v. 277; p. 391.
United Drug Company, Boston, Mass. Writing-tablets No. 128,554; Jan. 6; v. 270; p. 185.
United Drug Company, Boston, Mass. Candy. No. 130,956; May 4; v. 274; p. 191.
United Drug Company, Boston, Mass. Chemicals, medicines, and pharmaceutical preparations. No. 132,568; June 22; v. 275; p. 824.
United Drug Company, Boston, Mass. Dental, medical, and surgical appliances. No. 133,068; July 6; v. 276; p. 205.
United Drug Company, Boston, Mass. Candy. No. 133,853; Aug. 3; v. 277; p. 178.
United Drug Company, Boston, Mass. Liquid chemical preparation for polishing silverware. No. 134,111; Aug. 10; v. 277; p. 391.
United Drug Company, Boston, Mass. Toilet sets containing puff, comb, brush, nail-file, scissors, &c. No. 134,112; Aug. 10; v. 277; p. 391.
United Drug Company, Boston, Mass. Infants' foods, condensed milk, sugar of milk, and malted milk. No. 134,113; Aug. 10; v. 277; p. 391.
United Drug Company, Boston, Mass. Talcum and chafing powder, zinc-stearate talc; worm, colic, and cough remedy, &c. No. 134,548; Sept. 7; v. 278; p. 161.
United Drug Company, Boston, Mass. Smoking-tobacco. No. 134,834; Sept. 14; v. 278; p. 361.
United Drug Company, Boston, Mass. Preparation having deodorant, antiseptic, and perspiration-absorbent properties. No. 134,835; Sept. 14; v. 278; p. 361.
United Drug Company, Boston, Mass. Nipples, infants' rubber, water-bottles, rubber sheeting, &c. No. 136,673; Nov. 2; v. 280; p. 189.
United Drug Company, Boston, Mass. Compounds for cleaning fabrics, &c. No. 138,146; Dec. 14; v. 281; p. 402.
United Engine & Manufacturing Co., Hanover, Pa. Engine-stands, portable cranes, &c. No. 130,957; May 4; v. 274; p. 192.
United Eye Glass Shops Corporation, New York, N. Y. Ophthalmic lenses, eyeglasses, eyeglass-frames. Nos. 131,374–79; May 11; v. 274; p. 402.
United Eye Glass Shops Corporation, New York, N. Y. Ophthalmic lenses, eyeglasses, eyeglass-frames. No. 131,650; May 18; v. 274; p. 609.
United & Globe Rubber Company, Trenton, N. J. Brake-linings. No. 136,970; Nov. 9; v. 280; p. 384.
United Hosiery Mills Corporation, East Chattanooga, Tenn. Hosiery. Nos. 128,883–5; Jan. 13; v. 270; p. 344.
United Hosiery Mills Corporation, East Chattanooga, Tenn. Hosiery. No. 129,233; Jan. 27; v. 270; p. 617.
United Kingdom Tobacco Co., Limited, The, Bishopsgate, London, England. Cigarettes. No. 136,674; Nov. 2; v. 280; p. 189.
United Laboratories, Inc., St. Louis, Mo. Remedies for headaches, insomnia, constipation, &c. No. 131,370; May 11; v. 274; p. 402.
United Lace & Braid Manufacturing Company, Cranston, R. I. Boot and shoe heels of rubber. No. 133,533; July 27; v. 276; p. 772.
United Medicinal Chemical Company, The, Denver, Colo. External application for the relief of pain, congestions, and inflammations. No. 138,360; Dec. 21; v. 281; p. 567.
United Mills Company, Louisville, Ky. Hosiery. No. 136,675; Nov. 2; v. 280; p. 189.
United Motors Service Incorporated, Detroit, Mich. Rubber vehicle tires, casings, and inner tubes. No. 138,401; Dec. 21; v. 281; p. 571.
United Neighborhood Houses of New York, New York, N. Y., assignors to Better Times, Inc. Printed publication published monthly, &c. No. 137,730; Nov. 30; v. 280; p. 1001.
United Nut Lock Company, Springfield, Mass. Nut-locks. No. 131,381; May 11; v. 274; p. 402.
United Petroleum Products Co., San Francisco, Calif. Lubricants consisting of oils and greases. No. 136,676; Nov. 2; v. 280; p. 189.
United Pharmacal Products Company, Knox, Ind. Medicinal ointment for the treatment of hemorrhoids, eczema, &c. No. 129,912; Mar. 9; v. 272; p. 369.
United Phonograph Corporation, Omaha, Nebr. Phonographs. No. 132,843; June 29; v. 275; p. 1020.
United Products & Sales Corporation, San Francisco, Calif. Lubricating oils and greases. No. 134,836; Sept. 14; v. 278; p. 361.
United Publishers Corporation, New York, N. Y. Export catalogue. No. 136,231; Oct. 26; v. 279; p. 725.
United Publishers Corporation, New York, N. Y. Weekly periodical. No. 138,147; Dec. 14; v. 281; p. 402.
United Retail Candy Stores, Inc., New York, N. Y. Candy. No. 138,209; Dec. 14; v. 281; p. 407.
United Rubber Company, The, Akron, Ohio. Rubber vehicle-tire casing and tubes. No. 137,734; Nov. 30; v. 280; p. 1001.
United Shoe Machinery Athletic Association, Beverly, Mass. Monthly publication. No. 133,534; July 27; v. 276; p. 772.
United Shoe Machinery Company Paterson, N. J., and Boston, Mass. Hand shoe-knives and knives and groovers for shoe machinery. No. 128,886; Jan. 13; v. 270; p. 344.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

United Shoe Machinery Corporation, Paterson, N. J., and Boston, Mass. Leather belting. No. 136,677; Nov. 2; v. 280; p. 189.
United Shoe Machinery Corporation, Paterson, N. J., and Boston, Mass. Nails and tacks. No. 137,073; Nov. 16; v. 280; p. 585.
United Silk Mills, Boston, Mass. Broad silks, velvets, plain, fancy, and printed silks, and cotton and woolen goods. No. 133,535; July 27; v. 276; p. 772.
United Smelting & Aluminum Company, Inc., New Haven, Conn. Metal capable of brightening zinc, removing oxid, &c. No. 130,021; Mar. 23; v. 272; p. 731.
United States Air Compressor Co., The, Cleveland, Ohio. Unitary air-compressor equipments and parts thereof. No. 133,193; July 13; v. 276; p. 404.
United States Automotive Corporation, Connorsville, Ind. Electrical vehicle head-lamps. No. 137,399; Nov. 23; v. 280; p. 798.
United States Cartridge Company, Lowell, Mass. Radiators for internal-combustion engines. Nos. 132,061–2; June 8; v. 275; p. 416.
United States Color and Chemical Company, Boston, Mass. Anilin dyes, dye-colors, and color-bases. No. 131,651; May 18; v. 274; p. 609.
United States Drug & Chemical Co., The, Cleveland, Ohio. Toilet preparations, hair-tonics, face and shaving lotions, dentifrices, &c. No. 134,549; Sept. 7; v. 278; p. 161.
United States Ferro Alloys Corporation, New York, N. Y. Ferro alloys. No. 136,678; Nov. 2; v. 280; p. 189.
United States Fuel-Saving Equipments Corporation, Charlottesville, Va. Metallic fuel-saving attachments. No. 136,232; Oct. 26; v. 279; p. 725.
United States Graphite Company, The, Saginaw, Mich. Mining-machine lubricant. No. 135,095; Sept. 21; v. 278; p. 535.
United States Macaroni Company, Los Angeles, Calif. Macaronic foods. No. 135,836; Oct. 19; v. 279; p. 532.
United States Playing Card Company, The, East Norwood, Ohio. Playing-cards. Nos. 133,070–1; July 6; v. 276; p. 205.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Leather shoes. No. 128,555; Jan. 6; v. 270; p. 185.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Leather shoes. No. 129,094; Jan. 20; v. 270; p. 476
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Rubber mats and mattings. No. 129,235; Jan. 27; v. 270; p. 617.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Shoes made of rubber and canvas. No. 130,958; May 4; v. 274; p. 192.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Shoes made of leather. No. 131,250; May 4; v. 274; p. 200.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Household gloves, bathing-caps, &c. No. 131,251; May 4; v. 274; p. 200.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Dental dam, surgeons' gloves, seamless nipples, &c. No. 133,072; July 6; v. 276; p. 205.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Floor-covering made of rubber compound. No. 133,856; Aug. 3; v. 277; p. 178.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Jar-rings. No. 133,857; Aug. 3; v. 277; p. 178.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Hose made of fabric and rubber. No. 133,858; Aug. 3; v. 277; p. 178.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Arctics. No. 134,837; Sept. 14; v. 278; p. 361.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Slippers made of felt and felt and leather. No. 135,353; Sept. 28; v. 278; p. 706.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Rubber mats. No. 135,837; Oct. 19; v. 279; p. 533.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Insoles made of felt composition. No. 135,838; Oct. 19; v. 279; p. 533.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Carriage-cloth made of rubber. Nos. 137,731–2; Nov. 30; v. 280; p. 1001.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Carriage-cloth made of fabric and rubber. No. 137,733; Nov. 30; v. 280; p. 1001.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Rubberized cloth and blankets. No. 137,889; Dec. 7; v. 281; p. 199.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Waterproof clothing. No. 138,361; Dec. 21; v. 281; p. 567.
United States Spring Bed Company, The, Springfield, Mass. Extension or sliding couches. No. 133,333; July 20; v. 276; p. 593.
United States Syrup Co., San Francisco, Calif. Non-alcoholic syrup of malt and hops. No. 137,890; Dec. 7; v. 281; p. 199.
United States Tire Company, New York, N. Y. Pneumatic vehicle-tires. No. 135,839; Oct. 19; v. 279; p. 533.
United States Trading Corporation, San Francisco, Calif. Canned fruits. No. 130,587; Apr. 27; v. 273; p. 805.
United States Wax Corporation, Brooklyn, N. Y. Night-lights. No. 135,354; Sept. 28; v. 278; p. 706.
United Stay Company, Cambridge, Mass. Clothing. No. 133,334; July 20; v. 276; p. 593.
United Stay Company, Cambridge, Mass. Stays, straps, &c., for use in the manufacture of harness, trunks, and bags. No. 133,854; Aug. 3; v. 277; p. 178.
United Stay Company, Cambridge, Mass. Bindings, pipings, facings, and trimmings of leather for use in the manufacture of shoes. No. 133,855; Aug. 3; v. 277; p. 178.
United Theatre Equipment Corporation, Wilmington, Del., and New York, N. Y. Motion-picture apparatus and accessories. No. 133,194; July 13; v. 276; p. 404.
United Trimming Co., New York, N. Y. Snap-fasteners. No. 130,959; May 4; v. 274; p. 192.
United Wholesale Grocery Co., Los Angeles, Calif. Foods. No. 134,115; Aug. 10; v. 277; p. 391.
United Xpedite Finishing Company, Portland, Me., and Boston, Mass. Heel and sole edge finishing machines, &c. No. 138,148; Dec. 14; v. 281; p. 402.
Universal Battery Company, Chicago, Ill. Isolated electric power-generating and lighting plants. No. 130,960; May 4; v. 274; p. 192.
Universal Beverage Company, St. Louis, Mo. Carbonated soda-water. No. 133,852; Aug. 3; v. 277; p. 178.
Universal Boring Machine Company, Hudson, Mass. Metal-boring machines. No. 137,891; Dec. 7; v. 281; p. 199.
Universal Cleanser Co., Oklahoma, Okla. Cleanser in powdered form. No. 131,860; May 25; v. 274; p. 834.
Universal Film Manufacturing Company, Inc., New York, N. Y. Moving-picture films. Nos. 128,887–8; Jan. 13; v. 270; p. 344.
Universal Merchandise Co., New York, N. Y. Hosiery. No. 130,962; May 4; v. 274; p. 192.
Universal Merchandise Company, New York, N. Y. Underwear. No. 130,961; May 4; v. 274; p. 192.
Universal Paint Remover and Motor Cleaning Company, Dallas, Tex. Compound for removing paint, varnish, and enamel from surfaces. No. 132,267; June 15; v. 275; p. 621.
Universal Products Co., Kansas City, Mo. Chewing-gum. No. 130,588; Apr. 27; v. 273; p. 805.
Universal Remedies Company, Duluth, Minn. Liniment for rheumatism, stiff joints, cuts, bruises, toothache, chilblains, &c. No. 134,551; Sept. 7; v. 278; p. 161.
Universal Theatres Concession Co., Chicago, Ill. Candy. No. 134,552; Sept. 7; v. 278; p. 161.
Universal Tire & Rubber Association, Houston, Tex. Fabric and rubber tires. No. 133,335; July 20; v. 276; p. 593.
Universal Tool Co., Detroit, Mich. Cylinder-reboring tools and kits, &c. No. 129,236; Jan. 27; v. 270; p. 617.
Upson Nut Company, The, Cleveland, Ohio. Nuts, bolts, screws, and rivets. No. 132,569; June 22; v. 275; p. 824.
Urban, George, Milling Company, Buffalo, N. Y. Cornmeal. No. 138,407; Dec. 21; v. 281; p. 572.
Urbany, Urban, San Diego, Calif. Chilli food composed of meat, pepper, and flour. No. 134,109; Aug. 10; v. 277; p. 391.
Urego Chemical Laboratories, Omaha, Nebr. Skin preparations for certain purposes. No. 131,653; May 18; v. 274; p. 609.
Usit Manufacturing Co. of America Inc., Buffalo, N. Y. Preparation for treating eyes. No. 131,654; May 18; v. 274; p. 609.
Usit Mfg. Co. of America, Inc., New York, N. Y. Cosmetics and facial beautifiers. No. 131,382; May 11; v. 274; p. 402.
Usona Dental Company, Inc., Ogdensburg, N. Y. Burs and broaches used with dental handpieces for preparing cavities. No. 130,963; May 4; v. 274; p. 192.
Usona Dental Company, Inc., Ogdensburg, N. Y. Burs and broaches. Nos. 133,073–74; July 6; v. 276; p. 205.
Utica Drop Forging & Tool Company, Utica, N. Y. Dental pliers and forceps. No. 133,075; July 6; v. 276; p. 205.
Utica Insecticide Co., Utica, N. Y. Insecticides, disinfectants, deodorants, &c. No. 136,972; Nov. 9; v. 280; p. 384.
Utilities Chemical Company, Detroit, Mich. Cleaning compounds for general use. No. 132,268; June 15; v. 275; p. 621.
Utility Product Co., Omaha, Nebr. Chemical soot-destroyer. No. 129,556; Feb. 24; v. 271; p. 681.
Utopia Cigar Company, Nashville, Tenn. Cigars. No. 133,536; July 27; v. 276; p. 772.
Utopia Cigar Company, Nashville, Tenn. Cigars. No. 136,233; Oct. 26; v. 279; p. 725.
Uzold Tire & Rim Co., Cleveland, Ohio. Automobile-tires made of rubber. No. 129,913; Mar. 9; v. 272; p. 369.
V. & L. Chemical Co. Inc., Brooklyn, N. Y. Writing-ink. No. 135,632; Oct. 19; v. 279; p. 526.
V-Plex Piston Ring Company, Chicago, Ill. Piston-rings. No. 133,337; July 20; v. 276; p. 593.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Underwood, Frederick D., New York, N. Y. Fresh milk and cream, eggs, and butter. No. 128,552; Jan. 6; v. 270; p. 185.
Underwood Typewriter Company, New York, N. Y. Typewriting-machines. No. 131,645; May 18; v. 274; p. 609.
Underwood Typewriter Company, New York, N. Y. Typewriting machine and parts. No. 134,865; Sept. 14; v. 278; p. 364.
Underwood, William, Company, Boston, Mass. Canned sardines. No. 134,453; Aug. 31; v. 277; p. 974.
Unexcelled Manufacturing Company, Inc., New York, N. Y. Fireworks. No. 133,532; July 27; v. 276; p. 772.
Unexcelled Manufacturing Company, New York, N. Y. Fireworks. No. 135,094; Sept. 21; v. 278; p. 535.
Unexcelled Shirt Co., New York, N. Y. Men's negligée shirts. No. 138,357; Dec. 21; v. 281; p. 567.
Ungerer & Company, Inc., New York, N. Y. Resins and volatile oils for imparting scent to toilet preparations. No. 131,646; May 18; v. 274; p. 609.
Union Asbestos & Rubber Company, Chicago, Ill. Machinery packing. No. 129,911; Mar. 9; v. 272; p. 369.
Union Auto Specialties Co., San Francisco, Calif. Auto-lenses. No. 130,429; Apr. 20; v. 273; p. 624.
Union Bag & Paper Corporation, Jersey City, N. J., and New York, N. Y. Paper bags. No. 130,019; Mar. 23; v. 272; p. 781.
Union Bag & Paper Corporation, Jersey City, N. J., and New York, N. Y. Wrapping-papers. No. 131,647; May 18; v. 274; p. 609.
Union City Manufacturing Co., Union City, Tenn. Waterproof goods. No. 130,953; May 4; v. 274; p. 191.
Union City Manufacturing Co., Union City, Tenn. Waterproof goods. No. 132,566; June 22; v. 275; p. 824.
Union Cutlery Co., Olean, N. Y. Pocket-cutlery, razors, shears, and butcher-knives. No. 130,954; May 4; v. 274; p. 191.
Union Cutlery Co., Olean, N. Y. Pocket-cutlery, razors, shears, and butcher-knives. No. 131,648; May 18; v. 274; p. 609.
Union Joe Overalls Co., Inc., New Orleans, La. Overalls. No. 132,567; June 22; v. 275; p. 824.
Union Metal Manufacturing Company, Canton, Ohio. Metal foundry-flasks, bottom boards for same, core-plates. No. 131,649; May 18; v. 274; p. 609.
Union Metal Manufacturing Company, The, Canton, Ohio. Metal columns for building purposes. No. 136,969; Nov. 9; v. 280; p. 384.
Union Pacific Tea Co., New York, N. Y. Foods. No. 130,428; Apr. 20; v. 273; p. 624.
Union Smelting & Refining Co., Inc., Newark, N. J. Anti-friction bearing metals. No. 130,586; Apr. 27; v. 273; p. 805.
Union Special Machine Company, Chicago, Ill. Sewing-machines and parts thereof. No. 133,332; July 20; v. 276; p. 593.
Union Special Machine Company, Chicago, Ill. Sewing-machine needles. No. 135,351; Sept. 28; v. 278; p. 706.
Union Special Machine Company, Chicago, Ill. Sewing-machine needles. Nos. 135,832–5; Oct. 19; v. 279; p. 532.
Union Special Machine Company, Chicago, Ill. Sewing-machine needles. Nos. 136,228–9; Oct. 26; v. 279; p. 725.
Union Steam Pump Company, Battle Creek, Mich. Machines for effecting emulsion and producing homogeneous and emulsified mixtures. No. 131,249; May 4; v. 274; p. 200.
Union Tool Company, Torrance, Calif. Tractors, steam and gas engines. No. 128,553; Jan. 6; v. 270; p. 185.
Union Tool Company, Torrance, Calif. Oil and Artesian well drilling and operating equipment and machinery. No. 129,314; Feb. 10; v. 271; p. 356.
Unique Novelty Co., Los Angeles, Calif., and Independence, Iowa. Planchette-boards. No. 130,955; May 4; v. 274; p. 191.
United American Metals Corporation, Brooklyn, N. Y. Babbitt metal. No. 128,882; Jan. 13; v. 270; p. 344.
United American Metals Corporation, Brooklyn, N. Y. Babbitt metal. No. 129,232; Jan. 27; v. 270; p. 617.
United American Metals Corporation, New York, N. Y. Babbitt metal. No. 133,192; July 13; v. 276; p. 404.
United American Metals Corporation, Brooklyn, N. Y. Non-ferrous alloys. No. 134,454; Aug. 31; v. 277; p. 974.
United American Metals Corporation, Brooklyn, N. Y. Babbitt metal. No. 136,672; Nov. 2; v. 280; p. 189.
United American Metals Corporation, Brooklyn, N. Y. Non-ferrous alloys. No. 136,731; Nov. 2; v. 280; p. 192.
United Baking Co., Louisville, Ky. Bread. No. 136,230; Oct. 26; v. 279; p. 725.
United Battery Service Company, Montgomery, Ala. Battery-containers. No. 138,359; Dec. 21; v. 281; p. 567.
United Beverage Company, Marinette, Wis. Beverages. No. 138,145; Dec. 14; v. 281; p. 402.
United Brush Manufactories, New York, N. Y. Paint and varnish brushes. No. 130,131; Apr. 6; v. 273; p. 182.
United Brush Manufactories, New York, N. Y. Brushes used as sash-tools. No. 130,243; Apr. 13; v. 273; p. 404.
United Canneries Company of California, Oakland, Calif. Canned peaches and apricots. No. 132,842; June 29; v. 275; p. 1020.
United Drug and Candy Manufacturing Company, The, Cleveland, Ohio. Chocolate candy. No. 134,114; Aug. 10; v. 277; p. 391.
United Drug Company, Boston, Mass. Writing-tablets No. 128,554; Jan. 6; v. 270; p. 185.
United Drug Company, Boston, Mass. Candy. No. 130,956; May 4; v. 274; p. 191.
United Drug Company, Boston, Mass. Chemicals, medicines, and pharmaceutical preparations. No. 132,568; June 22; v. 275; p. 824.
United Drug Company, Boston, Mass. Dental, medical, and surgical appliances. No. 133,068; July 6; v. 276; p. 205.
United Drug Company, Boston, Mass. Candy. No. 133,853; Aug. 3; v. 277; p. 178.
United Drug Company, Boston, Mass. Liquid chemical preparation for polishing silverware. No. 134,111; Aug. 10; v. 277; p. 391.
United Drug Company, Boston, Mass. Toilet sets containing puff, comb, brush, nail-file, scissors, &c. No. 134,112; Aug. 10; v. 277; p. 391.
United Drug Company, Boston, Mass. Infants' foods, condensed milk, sugar of milk, and malted milk. No. 134,113; Aug. 10; v. 277; p. 391.
United Drug Company, Boston, Mass. Talcum and chafing powder, zinc-stearate talc; worm, colic, and cough remedy, &c. No. 134,548; Sept. 7; v. 278; p. 161.
United Drug Company, Boston, Mass. Smoking-tobacco. No. 134,834; Sept. 14; v. 278; p. 361.
United Drug Company, Boston, Mass. Preparation having deodorant, antiseptic, and perspiration-absorbent properties. No. 134,835; Sept. 14; v. 278; p. 361.
United Drug Company, Boston, Mass. Nipples, infants' rubber, water-bottles, rubber sheeting, &c. No. 136,673; Nov. 2; v. 280; p. 189.
United Drug Company, Boston, Mass. Compounds for cleaning fabrics, &c. No. 138,146; Dec. 14; v. 281; p. 402.
United Engine & Manufacturing Co., Hanover, Pa. Engine-stands, portable cranes, &c. No. 130,957; May 4; v. 274; p. 192.
United Eye Glass Shops Corporation, New York, N. Y. Ophthalmic lenses, eyeglasses, eyeglass-frames. Nos. 131,374–79; May 11; v. 274; p. 402.
United Eye Glass Shops Corporation, New York, N. Y. Ophthalmic lenses, eyeglasses, eyeglass-frames. No. 131,650; May 18; v. 274; p. 609.
United & Globe Rubber Company, Trenton, N. J. Brake-linings. No. 136,970; Nov. 9; v. 280; p. 384.
United Hosiery Mills Corporation, East Chattanooga, Tenn. Hosiery. Nos. 128,883–5; Jan. 13; v. 270; p. 344.
United Hosiery Mills Corporation, East Chattanooga, Tenn. Hosiery. No. 129,233; Jan. 27; v. 270; p. 617.
United Kingdom Tobacco Co., Limited, The, Bishopsgate, London, England. Cigarettes. No. 136,674; Nov. 2; v. 280; p. 189.
United Laboratories, Inc., St. Louis, Mo. Remedies for headaches, insomnia, constipation, &c. No. 131,370; May 11; v. 274; p. 402.
United Lace & Braid Manufacturing Company, Cranston, R. I. Boot and shoe heels of rubber. No. 133,533; July 27; v. 276; p. 772.
United Medicinal Chemical Company, The, Denver, Colo. External application for the relief of pain, congestions, and inflammations. No. 138,360; Dec. 21; v. 281; p. 567.
United Mills Company, Louisville, Ky. Hosiery. No. 136,675; Nov. 2; v. 280; p. 189.
United Motors Service Incorporated, Detroit, Mich. Rubber vehicle tires, casings, and inner tubes. No. 138,401; Dec. 21; v. 281; p. 571.
United Neighborhood Houses of New York, New York, N. Y., assignors to Better Times, Inc. Printed publication published monthly, &c. No. 137,730; Nov. 30; v. 280; p. 1001.
United Nut Lock Company, Springfield, Mass. Nut-locks. No. 131,381; May 11; v. 274; p. 402.
United Petroleum Products Co., San Francisco, Calif. Lubricants consisting of oils and greases. No. 136,676; Nov. 2; v. 280; p. 189.
United Pharmacal Products Company, Knox, Ind. Medicinal ointment for the treatment of hemorrhoids, eczema, &c. No. 129,912; Mar. 9; v. 272; p. 369.
United Phonograph Corporation, Omaha, Nebr. Phonographs. No. 132,843; June 29; v. 275; p. 1020.
United Products & Sales Corporation, San Francisco, Calif. Lubricating oils and greases. No. 134,836; Sept. 14; v. 278; p. 361.
United Publishers Corporation, New York, N. Y. Export catalogue. No. 136,231; Oct. 26; v. 279; p. 725.
United Publishers Corporation, New York, N. Y. Weekly periodical. No. 138,147; Dec. 14; v. 281; p. 402.
United Retail Candy Stores, Inc., New York, N. Y. Candy. No. 138,209; Dec. 14; v. 281; p. 407.
United Rubber Company, The, Akron, Ohio. Rubber vehicle-tire casing and tubes. No. 137,734; Nov. 30; v. 280; p. 1001.
United Shoe Machinery Athletic Association, Beverly, Mass. Monthly publication. No. 133,534; July 27; v. 276; p. 772.
United Shoe Machinery Company, Paterson, N. J., and Boston, Mass. Hand shoe-knives and knives and groovers for shoe machinery. No. 128,886; Jan. 13; v. 270; p. 344.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

United Shoe Machinery Corporation, Paterson, N. J., and Boston, Mass. Leather belting. No. 136,677; Nov. 2; v. 280; p. 189.
United Shoe Machinery Corporation, Paterson, N. J., and Boston, Mass. Nails and tacks. No. 137,073; Nov. 16; v. 280; p. 585.
United Silk Mills, Boston, Mass. Broad silks, velvets, plain, fancy, and printed silks, and cotton and woolen goods. No. 133,535; July 27; v. 276; p. 772.
United Smelting & Aluminum Company, Inc., New Haven, Conn. Metal capable of brightening zinc, removing oxid, &c. No. 130,021; Mar. 23; v. 272; p. 731.
United States Air Compressor Co., The, Cleveland, Ohio. Unitary air-compressor equipments and parts thereof. No. 133,193; July 13; v. 276; p. 404.
United States Automotive Corporation, Connorsville, Ind. Electrical vehicle head-lamps. No. 137,399; Nov. 23; v. 280; p. 798.
United States Cartridge Company, Lowell, Mass. Radiators for internal-combustion engines. Nos. 132,061–2; June 8; v. 275; p. 416.
United States Color and Chemical Company, Boston, Mass. Anilin dyes, dye-colors, and color-bases. No. 131,651; May 18; v. 274; p. 609.
United States Drug & Chemical Co., The, Cleveland, Ohio. Toilet preparations, hair-tonics, face and shaving lotions, dentifrices, &c. No. 134,549; Sept. 7; v. 278; p. 161.
United States Ferro Alloys Corporation, New York, N. Y. Ferro alloys. No. 136,678; Nov. 2; v. 280; p. 189.
United States Fuel-Saving Equipments Corporation, Charlottesville, Va. Metallic fuel-saving attachments. No. 136,232; Oct. 26; v. 279; p. 725.
United States Graphite Company, The, Saginaw, Mich. Mining-machine lubricant. No. 135,095; Sept. 21; v. 278; p. 535.
United States Macaroni Company, Los Angeles, Calif. Macaronic foods. No. 135,836; Oct. 19; v. 279; p. 532.
United States Playing Card Company, The, East Norwood, Ohio. Playing-cards. Nos. 133,070–1; July 6; v. 276; p. 205.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Leather shoes. No. 128,555; Jan. 6; v. 270; p. 185.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Leather shoes. No. 129,094; Jan. 20; v. 270; p. 476
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Rubber mats and mattings. No. 129,235; Jan. 27; v. 270; p. 617.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Shoes made of rubber and canvas. No. 130,958; May 4; v. 274; p. 192.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Shoes made of leather. No. 131,250; May 4; v. 274; p. 200.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Household gloves, bathing-caps, &c. No. 131,251; May 4; v. 274; p. 200.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Dental dam, surgeons' gloves, seamless nipples, &c. No. 133,072; July 6; v. 276; p. 205.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Floor-covering made of rubber compound. No. 133,856; Aug. 3; v. 277; p. 178.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Jar-rings. No. 133,857; Aug. 3; v. 277; p. 178.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Hose made of fabric and rubber. No. 133,858; Aug. 3; v. 277; p. 178.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Arctics. No. 134,837; Sept. 14; v. 278; p. 361.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Slippers made of felt and felt and leather. No. 135,353; Sept. 28; v. 278; p. 706.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Rubber mats. No. 135,837; Oct. 19; v. 279; p. 533.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Insoles made of felt composition. No. 135,838; Oct. 19; v. 279; p. 533.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Carriage-cloth made of rubber. Nos. 137,731–2; Nov. 30; v. 280; p. 1001.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Carriage-cloth made of fabric and rubber. No. 137,733; Nov. 30; v. 280; p. 1001.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Rubberized cloth and blankets. No. 137,889; Dec. 7; v. 281; p. 199.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Waterproof clothing. No. 138,361; Dec. 21; v. 281; p. 567.
United States Spring Bed Company, The, Springfield, Mass. Extension or sliding couches. No. 133,333; July 20; v. 276; p. 593.
United States Syrup Co., San Francisco, Calif. Non-alcoholic syrup of malt and hops. No. 137,890; Dec. 7; v. 281; p. 199.
United States Tire Company, New York, N. Y. Pneumatic vehicle-tires. No. 135,839; Oct. 19; v. 279; p. 533.
United States Trading Corporation, San Francisco, Calif. Canned fruits. No. 130,587; Apr. 27; v. 273; p. 805.
United States Wax Corporation, Brooklyn, N. Y. Night-lights. No. 135,354; Sept. 28; v. 278; p. 706.
United Stay Company, Cambridge, Mass. Clothing. No. 133,334; July 20; v. 276; p. 593.
United Stay Company, Cambridge, Mass. Stays, straps, &c., for use in the manufacture of harness, trunks, and bags. No. 133,854; Aug. 3; v. 277; p. 178.
United Stay Company, Cambridge, Mass. Bindings, pipings, facings, and trimmings of leather for use in the manufacture of shoes. No. 133,855; Aug. 3; v. 277; p. 178.
United Theatre Equipment Corporation, Wilmington, Del., and New York, N. Y. Motion-picture apparatus and accessories. No. 133,194; July 13; v. 276; p. 404.
United Trimming Co., New York, N. Y. Snap-fasteners. No. 130,959; May 4; v. 274; p. 192.
United Wholesale Grocery Co., Los Angeles, Calif. Foods. No. 134,115; Aug. 10; v. 277; p. 391.
United Xpedite Finishing Company, Portland, Me., and Boston, Mass. Heel and sole edge finishing machines, &c. No. 138,148; Dec. 14; v. 281; p. 402.
Universal Battery Company, Chicago, Ill. Isolated electric power-generating and lighting plants. No. 130,960; May 4; v. 274; p. 192.
Universal Beverage Company, St. Louis, Mo. Carbonated soda-water. No. 133,852; Aug. 3; v. 277; p. 178.
Universal Boring Machine Company, Hudson, Mass. Metal-boring machines. No. 137,891; Dec. 7; v. 281; p. 199.
Universal Cleanser Co., Oklahoma, Okla. Cleanser in powdered form. No. 131,860; May 25; v. 274; p. 834.
Universal Film Manufacturing Company, Inc., New York, N. Y. Moving-picture films. Nos. 128,887–8; Jan. 13; v. 270; p. 344.
Universal Merchandise Co., New York, N. Y. Hosiery. No. 130,962; May 4; v. 274; p. 192.
Universal Merchandise Company, New York, N. Y. Underwear. No. 130,961; May 4; v. 274; p. 192.
Universal Paint Remover and Motor Cleaning Company, Dallas, Tex. Compound for removing paint, varnish, and enamel from surfaces. No. 132,267; June 15; v. 275; p. 621.
Universal Products Co., Kansas City, Mo. Chewing-gum. No. 130,588; Apr. 27; v. 273; p. 805.
Universal Remedies Company, Duluth, Minn. Liniment for rheumatism, stiff joints, cuts, bruises, toothache, chilblains, &c. No. 134,551; Sept. 7; v. 278; p. 161.
Universal Theatres Concession Co., Chicago, Ill. Candy. No. 134,552; Sept. 7; v. 278; p. 161.
Universal Tire & Rubber Association, Houston, Tex. Fabric and rubber tires. No. 133,335; July 20; v. 276; p. 593.
Universal Tool Co., Detroit, Mich. Cylinder-reboring tools and kits, &c. No. 129,236; Jan. 27; v. 270; p. 617.
Upson Nut Company, The, Cleveland, Ohio. Nuts, bolts, screws, and rivets. No. 132,569; June 22; v. 275; p. 824.
Urban, George, Milling Company, Buffalo, N. Y. Cornmeal. No. 138,407; Dec. 21; v. 281; p. 572.
Urbany, Urban, San Diego, Calif. Chilli food composed of meat, pepper, and flour. No. 134,109; Aug. 10; v. 277; p. 391.
Urego Chemical Laboratories, Omaha, Nebr. Skin preparations for certain purposes. No. 131,653; May 18; v. 274; p. 609.
Usit Manufacturing Co. of America Inc., Buffalo, N. Y. Preparation for treating eyes. No. 131,654; May 18; v. 274; p. 609.
Usit Mfg. Co. of America, Inc., New York, N. Y. Cosmetics and facial beautifiers. No. 131,382; May 11; v. 274; p. 402.
Usona Dental Company, Inc., Ogdensburg, N. Y. Burs and broaches used with dental handpieces for preparing cavities. No. 130,963; May 4; v. 274; p. 192.
Usona Dental Company, Inc., Ogdensburg, N. Y. Burs and broaches. Nos. 133,073–74; July 6; v. 276; p. 205.
Utica Drop Forging & Tool Company, Utica, N. Y. Dental pliers and forceps. No. 133,075; July 6; v. 276; p. 205.
Utica Insecticide Co., Utica, N. Y. Insecticides, disinfectants, deodorants, &c. No. 136,972; Nov. 9; v. 280; p. 384.
Utilities Chemical Company, Detroit, Mich. Cleaning compounds for general use. No. 132,268; June 15; v. 275; p. 621.
Utility Product Co., Omaha, Nebr. Chemical soot-destroyer. No. 129,556; Feb. 24; v. 271; p. 681.
Utopia Cigar Company, Nashville, Tenn. Cigars. No. 133,536; July 27; v. 276; p. 772.
Utopia Cigar Company, Nashville, Tenn. Cigars. No. 136,233; Oct. 26; v. 279; p. 725.
Uzold Tire & Rim Co., Cleveland, Ohio. Automobile-tires made of rubber. No. 129,913; Mar. 9; v. 272; p. 369.
V. & L. Chemical Co. Inc., Brooklyn, N. Y. Writing-ink. No. 135,632; Oct. 19; v. 279; p. 526.
V-Plex Piston Ring Company, Chicago, Ill. Piston-rings. No. 133,337; July 20; v. 276; p. 593.

Digitized by Google

V. V. B. Company, Denver, Colo. Medicine for catarrh, colds, croup, asthma, &c. No. 137,402; Nov. 23; v. 280; p. 798.
Vacher, E. W., Inc., New Orleans, La. Medicinal salve or ointment. No. 138,552; Dec. 28; v. 281; p. 787.
Vacuum Oil Company, Rochester, N. Y. Lubricating-oils. No. 129,237; Jan. 27; v. 270; p. 617.
Vacuum Oil Company, New York, N. Y. Emulsifying oil for leather. No. 131,252; May 4; v. 274; p. 201.
Vacuum Oil Company, New York, N. Y. Oils, greases, waxes, &c. No. 131,862; May 25; v. 274; p. 834.
Vacuum Oil Company, New York, N. Y. Oils, greases, waxes, gasolene. No. 131,863; May 25; v. 274; p. 834.
Vacuum Oil Company, New York, N. Y. Oils, greases, and waxes. Nos. 131,864–7; May 25; v. 274; p. 834.
Vacuum Oil Company, New York, N. Y. Lubricating-oils. No. 136,234; Oct. 26; v. 279; p. 725.
Vacuumeter Co., Columbus, Ga. Registers for recording the amount of fuel consumed by internal-combustion engines. No. 128,556; Jan. 6; v. 270; p. 185.
Vail, Ed. S., Butterine Co., Chicago, Ill. Oleomargarin. No. 128,889; Jan. 13; v. 270; p. 344.
Valdosta Mill & Elevator Co., Valdosta, Ga. Cornmeal. No. 136,680; Nov. 2; v. 280; p. 189.
Valentin, Ord & Co., Limited, Hayes, England. Artificial mineral water. No. 131,655; May 18; v. 274; p. 609.
Valle, Ballina y Fernandez, S. A., Villaviciosa, Spain. Champagne cider. No. 135,097; Sept. 21; v. 278; p. 536.
Valmas Drug Company, Inc., Rochester, N. Y. Eye-wash. No. 132,847; June 29; v. 275; p. 1020.
Vanadium Chemical Company, Pittsburgh, Pa. Medicinal preparation for the treatment of teeth and gums. No. 136,235; Oct. 26; v. 279; p. 725.
Van Briggle Motor Device Company, Indianapolis, Ind. Carbureters. No. 128,557; Jan. 6; v. 270; p. 185.
Van Briggle Motor Device Company, Indianapolis, Ind. Shock-absorbers for vehicles. No. 129,557; Feb. 24; v. 271; p. 681.
Van Camp Hardware & Iron Company, Indianapolis, Ind. Liquid preparation for surface finish in the nature of a varnish. No. 134,838; Sept. 14; v. 278; p. 361.
Van Camp Hardware & Iron Company, Indianapolis, Ind. Paints and painters' materials. No. 137,517; Nov. 23; v. 280; p. 805.
Van Camp Hardware & Iron Company, Indianapolis, Ind. Electric batteries and flash-lights. No. 137,735; Nov. 30; v. 280; p. 1001.
Van Camp Hardware & Iron Company, Indianapolis, Ind. Automobile, piano, and furniture polish. No. 138,362; Dec. 21; v. 281; p. 567.
Van Camp Packing Company, The, Indianapolis, Ind. Evaporated milk. No. 130,964; May 4; v. 274; p. 192.
Vancouver Drug Company Limited, Vancouver, British Columbia, Canada. Preparations for the relief of la grippe. No. 132,570; June 22; v. 275; p. 824.
Vancouver Drug Company, Limited, Vancouver, British Columbia, Canada. Preparations for the relief of headaches and neuralgia. No. 134,553; Sept. 7; v. 278; p. 161.
Van De Myer, Frank V., New York, N. Y. Diaphragms for sound-boxes used on talking-machines. No. 132,845; June 29; v. 275; p. 1020.
Vanderbilt, R. T., Company, Inc., New York, N. Y. Whiting used as a filler in rubber goods. No. 131,253; May 4; v. 274; p. 201.
Vanderbilt, R. T., Company, Inc., New York, N. Y. Clay used as a filler in manufacture of paper, paints, and rubber products. No. 135,840; Oct. 19; v. 279; p. 533.
Vanderveer, Jean J., Brattleboro, Va. Book-marks. No. 131,656; May 18; v. 274; p. 609.
Van Dorn Electric Tool Company, Cleveland, Ohio. Electric motors and parts thereof and electrically-operated tools. No. 136,681; Nov. 2; v. 280; p. 189.
Van Dorn Iron Works Co., The, Cleveland, Ohio. Metal furniture and cell appurtenances. No. 136,973; Nov. 9; v. 280; p. 384.
Van Dyke, William L., Tampa, Fla. Cigars. No. 138,149; Dec. 14; v. 281; p. 402.
Van Horn, Blaine, Philadelphia, Pa. Instruments for producing comical imitative sounds. No. 132,846; June 29; v. 275; p. 1020.
Van Horn, Jay C., Philadelphia, Pa. Electrical apparatus for radiosignaling. No. 138,150; Dec. 14; v. 281; p. 402.
Vanity Fair Silk Mills, Reading, Pa. Hosiery. No. 130,430; Apr. 20; v. 273; p. 624.
Vanity Yarn Company, Boston, Mass. Worsted fingering-yarn. No. 128,890; Jan. 13; v. 270; p. 344.
Van Landingham, Charles E., Los Angeles, Calif. Canned fruits. No. 131,254; May 4; v. 274; p. 201.
Van Landingham, Charles E., Los Angeles, Calif. Canned fish. No. 131,868; May 25; v. 274; p. 835.
Van Namee, Allison K., Indianapolis, Ind. Spark-intensifiers. No. 130,431; Apr. 20; v. 273; p. 624.
Van Noorden, E., & Co., Boston, Mass. Cowl-ventilators. No. 131,255; May 4; v. 274; p. 201.
Van Orden Company, The, Newark, N. J. Corsets. Nos. 133,076–78; July 6; v. 276; p. 205.
Van Range, John, Co., The, Cincinnati, Ohio. Serving-tables. No. 134,839; Sept. 14; v. 278; p. 361.
Van Sand, Albert, New York, N. Y. Accountants' books for keeping accounts. No. 131,256; May 4; v. 274; p. 201.
Vantine, A. A., & Co., Inc., New York, and Long Island City, N. Y. Shaving-cream. No. 136,236; Oct. 26; v. 279; p. 725.
Van Vleet Mansfield Drug Co., Memphis, Tenn. External medicinal preparation. No. 129,315; Feb. 10; v. 274; p. 357.
Van Vleet Mansfield Drug Co., Memphis, Tenn. Remedy for diseases of the heart and nerves. No. 131,258; May 4; v. 274; p. 201.
Vaporine Chemical Company, Savannah, Tenn. Ointment. No. 128,562; Jan. 6; v. 270; p. 185.
Varnitone Manufacturing Company, The, Akron, Ohio. Polish for varnished and waxed surfaces, &c. No. 137,892; Dec. 7; v. 281; p. 199.
Varsity Underwear Company, Baltimore, Md. Clothing. No. 138,151; Dec. 14; v. 281; p. 402.
Vasold Brothers, Midland, Mich. Butter. No. 131,657; May 18; v. 274; p. 609.
Vaughan, Latimer C., New York, N. Y. Silk and cotton hosiery. No. 129,914; Mar. 9; v. 272; p. 369.
Vee Bee Chocolate Co., New York, N. Y. Chocolate. Nos. 132,849–50; June 29; v. 275; p. 1020.
Vega Separator Company, The, Fostoria, Ohio. Cream-separators. No. 137,736; Nov. 30; v. 280; p. 1001.
Vehicle Top & Supply Company, St. Louis, Mo. Commercial motor-vehicle bodies. No. 131,259; May 4; v. 274; p. 201.
Velie Motors Corporation, Moline, Ill. Internal-combustion motor-tractors. No. 130,589; Apr. 27; v. 273; p. 805.
Velvoto Company, Grand Rapids, Mich. Cold-cream. No. 131,658; May 18; v. 274; p. 609.
Ventoura & Begani, New York, N. Y. Salad-oils with a cotton-seed blend. No. 138,152; Dec. 14; v. 281; p. 402.
Venus Chocolate Company, The, Sidney and Lockport, Ohio. Candy. No. 132,064; June 8; v. 275; p. 416.
Veratone Phonograph Co., The, Marietta, Ohio. Phonograph-cabinets. No. 134,840; Sept. 14; v. 278; p. 361.
Vericel, Antoine, New York, N. Y. Perfume glass vial. No. 130,965; May 4; v. 274; p. 192.
Vermilion Malleable Iron Company, Chicago, Ill. Malleable-iron castings. No. 131,659; May 18; v. 274; p. 609.
Vermont Blood Purifier Company, Brattleboro, Vt. Blood-purifier. No. 129,558; Feb. 24; v. 271; p. 681.
Vermont Maple Syrup Company, Inc., Essex Junction, Vt. Maple table-syrup. No. 133,859; Aug. 3; v. 277; p. 178.
Vermont Maple Syrup Company, Inc., Essex Junction, Vt. Blended cane and maple table-syrup. No. 134,116; Aug. 10; v. 277; p. 391.
Vermorel & Rondu, Lyon, France. Mincing-machines. No. 136,682; Nov. 2; v. 280; p. 189.
Vernon, Ezekiel J., Vancouver, Canada. Medical compound for the treatment of typhoid fever, sciatica, &c. No. 131,660; May 18; v. 274; p. 609.
Ver-Vac Company, The, Baltimore, Md. Non-alcoholic maltless beverage. No. 129,316; Feb. 10; v. 271; p. 357.
Ver-Vac Company, Baltimore, Md. Beverage, syrups, flavoring extract, liquid colors, &c. No. 131,870; May 25; v. 274; p. 835.
Ver-Vac Company, The, Baltimore, Md. Non-alcoholic maltless beverages, &c. No. 138,153; Dec. 14; v. 281; p. 402.
Vesper, Anna M., San Francisco, Calif. Automobile-polish. No. 134,841; Sept. 14; v. 278; p. 361.
Vesta Battery Corporation, Chicago, Ill. Electric batteries—lamps, &c., for automobiles. No. 136,237; Oct. 26; v. 279; p. 725.
Vesuvius Crucible Company, Swissvale, Pa. Crucibles. No. 128,558; Jan. 6; v. 270; p. 185.
Vibroplex Company Inc., The, New York, N. Y. Telegraphic sending-machine. No. 137,893; Dec. 7; v. 281; p. 199.
Vibroplex Company, Inc., The, New York, N. Y. Telegraphic sending-machines. No. 138,363; Dec. 21; v. 281; p. 567.
Vic Manufacturing Corporation, Carlstadt, N. J. Safety-razors and parts thereof and safety-razor blades. No. 136,974; Nov. 9; v. 280; p. 384.
Vico Chemical Co., Boonville, Mo. Salve used in the treatment of cold in the head, croup, &c. No. 129,559; Feb. 24; v. 271; p. 681.
Victor Adding Machine Co., Chicago, Ill. Adding and calculating machines. No. 128,891; Jan. 13; v. 270; p. 344.
Victor Products Co., Chicago, Ill. Non-alcoholic fruit beverage. No. 133,537; July 27; v. 276; p. 772.
Victor Rubber Company, Springfield, Ohio. Outer casings and inner tubes for pneumatic automobile-tires. No. 132,075; June 8; v. 275; p. 417.
Victor Rubber Company, Springfield, Ohio. Rubber and fabric outer casings for pneumatic automobile tires, &c. No. 133,538; July 27; v. 276; p. 772.
Victor Slicing Machine Co., The, Philadelphia, Pa. Meat-slicing machines. No. 136,238; Oct. 26; v. 279; p. 725.
Victor Water Motor Corporation, New York, N. Y. Water-motors. No. 133,860; Aug. 3; v. 277; p. 178.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Victorius, A. V., & Company, New York, N. Y. Hosiery. No. 136,239; Oct. 26; v. 279; p. 725.
Victory Bag & Paper Co., Chicago, Ill. Paper bags. No. 128,559; Jan. 6; v. 270; p. 185.
Victory Bag & Paper Co., Chicago, Ill. Paper bags. No. 133,861; Aug. 3; v. 277; p. 178.
Victory Bag & Paper Co., Chicago, Ill. Paper bags. No. 135,098; Sept. 21; v. 278; p. 536.
Victory Bag & Paper Co., Marinette, Wis., and Chicago, Ill. Paper bags. No. 135,099; Sept 21; v. 278; p. 536.
Victory Bag & Paper Co., Marinette, Wis. Paper bags. No. 138,553; Dec. 28; v. 281; p. 787.
Victory Ring Compressor Company, Grand Rapids, Mich. Piston-ring compressors. No. 136,240; Oct. 26; v. 279; p. 726.
Victory Shirt Co., Inc., New York, N. Y. Collars, cuffs, and dress and negligée shirts. No. 136,241; Oct. 26; v. 279; p. 726.
Victory Sparkler Company, Elkton, Md. Sparklers. No. 130,966; May 4; v. 274; p. 192.
Vidalia Grocery Company, Vidalia, Ga. Canned vegetables. No. 138,154; Dec. 14; v. 281; p. 402.
Viduseck, Andrew, Bellevue, Pa. Hair-salve. No. 131,661; May 18; v. 274; p. 609.
Villapol, Manuel, New York, N. Y. Canned fruits. No. 129,915; Mar. 9; v. 272; p. 369.
Vincennes Furniture Mfg Co., Vincennes, Ind. Kitchen-cabinets. No. 133,336; July 20; v. 276; p. 593.
Vincent, Howard, Philadelphia, Pa. Piano and furniture polish. No. 136,683; Nov. 2; v. 280; p. 189.
Virginia Overall & Shirt Corporation, The, Harrisonburg, Va., Dress and work coats, pants, drawers, &c. No 130,967; May 4; v. 274; p. 192.
Virgona & Company, New York, N. Y. Canned olive-oil. No. 129,405; Feb. 17; v. 271; p. 509.
Visible Gasoline Filter Company, Chicago, Ill. Gasolene-filters. No. 135,355; Sept. 28; v. 278; p. 706.
Visible Spark Plug Co., Pittsburgh, Pa. Spark-plugs. No. 130,968; May 4; v. 274; p. 192.
Vitagraph Company of America, The, Brooklyn, N. Y. Moving-picture films. No. 131,383; May 11; v. 274; p. 402.
Vitanola Talking Machine Co., Chicago, Ill. Talking-machines. No. 134,117; Aug. 10; v. 277; p. 392.
Vivaudou, V., Inc., New York, N. Y. Deodorants. No. 132,571; June 22; v. 275; p. 824.
Vivaudou, Victor, New York, N. Y. Candies. No. 130,969; May 4; v. 274; p. 192.
Vivaudou, Victor, New York, N. Y. Toilet preparations. No. 131,384; May 11; v. 274; p. 402.
Vivaudou, Victor, New York, N. Y. Deodorants. No. 131,662; May 18; v. 274; p. 610.
Vivaudou, V., Inc., New York, N. Y. Certain named toilet preparations. No. 135,841; Oct. 19; v. 279; p. 533.
Vivaudou, V., Inc., New York, N. Y. Toilet preparations. No. 136,242; Oct. 26; v. 279; p. 726.
Vivaudou, Victor, New York, N. Y. Talc. No. 136,975; Nov. 9; v. 280; p. 384.
Vivaudou, Victor, New York, N. Y. Toilet and antiseptic preparations. No. 137,403; Nov. 23; v. 280; p. 798.
Vogan Candy Company, Portland, Oreg. Chocolate-covered cherries. No. 138,210; Dec. 14; v. 281; p. 407.
Vogan Candy Company, Portland, Oreg. Package-chocolates. No. 138,211; Dec. 14; v. 281; p. 407.
Vogt Manufacturing Corporation, Rochester, N. Y. Brake-lining. No. 135,842; Oct. 19; v. 279; p. 533.
Vogue Knitting Co., Reading, Pa. Ladies' and children's underwear, Men's, ladies', and children's hosiery. No. 138,212; Dec. 14; v. 281; p. 407.
Voice Talking Machine Co., New York, N. Y. Phonographs. No. 131,871; May 25; v. 274; p. 835.
Volgt Milling Company, Grand Rapids, Mich. Stock and poultry feed. No. 129,238; Jan. 27; v. 270; p. 617.
Vole College, Nashville, Tenn. Toilet preparation. No. 138,438; Dec. 28; v. 281; p. 782.
Volk, Philip H., Baltimore, Md. Footwear, &c. No. 131,872; May 25; v. 274; p. 835.
Voll, Leo G., Denver, Colo. Compound flour and syrup. No. 128,560; Jan. 6; v. 270; p. 185.
Vollrath, Jacob J., M'f'g Co., The, Sheboygan, Wis. Steel enameled ware. No. 134,198; Aug. 17; v. 277; p. 582.
Von Bremen, Asche & Co., New York, N. Y. Canned fish, particularly herring and sardines. No. 132,851; June 29; v. 275; p. 1020.
Von Hedemann, Leopold, Pittsburgh, Pa. Non-alcoholic malt beverage. No. 137,259; Nov. 23; v. 280; p. 794.
Von Holt, George F., Woodhaven, N. Y. Mayonnaise. No. 132,852; June 29; v. 275; p. 1020.
Voorhees, Joseph P., New York, N. Y. Hosiery. No. 135,843; Oct. 19; v. 279; p. 533.
Voorhees, Joseph P., New York, N. Y. Hosiery. No. 136,243; Oct. 26; v. 279; p. 726.
Voorhees, Joseph P., New York, N. Y. Hosiery. No. 137,400; Nov. 23; v. 280; p. 798.
Voorhorst, J. Clarence, New York, N. Y. Egg cartons or cases. No. 130,970; May 4; v. 274; p. 192.
Voorsanger, Jennie, Chicago, Ill. Steel pens. No. 128,561; Jan. 6; v. 270; p. 185.
Vornholt, Mark T., Chicago, Ill. Ointment. No. 129,406; Feb. 17; v. 271; p. 509.
Vos, Calvin, New York, N. Y. Metal alloys and steel and iron castings and forgings. No. 136,684; Nov. 2; v. 280; p. 189.
Voss Bros. Manufacturing Co., Davenport, Iowa. Laundry-washing machines. No. 130,133; Apr. 6; v. 273; p. 182.
Voter, G. H., Inc., Boston, Mass. Plastic roofing compounds. No. 137,401; Nov. 23; v. 280; p. 798.
Vreeland Motor Co. Inc., Newark, N. J. Automobiles. No. 131,260; May 4; v. 274; p. 201.
Vulcan Plow Co., The, Evansville, Ind. Tools and machinery. No. 131,663; May 18; v. 274; p. 610.
Vulcan Plow Co., The, Evansville, Ind. Tools and machinery. No. 131,873; May 25; v. 274; p. 835.
Vulcan Proofing Company, Brooklyn, N. Y. Rubber offset-blankets. No. 128,892; Jan. 13; v. 270; p. 344.
Wabash Valley Packing Co., Mount Carmel, Ill. Canned vegetables. No. 132,065; June 8; v. 275; p. 416.
Wa-Ba-Va-Nes-Ta Medicine & Drug Co., Bay City, Mich. Medicine used in the treatment of certain named diseases. No. 131,664; May 18; v. 274; p. 610.
Wachenheimer Bros. Inc., Providence, R. I. Jewelry.. No. 136,244; Oct. 26; v. 279; p. 726.
Wachusett Shirt Co., Leominster, Mass. Sleeping-garments—viz., night-dresses. No. 129,239; Jan. 27; v. 270; p. 617.
Wackrow, Joseph M., Portland, Oreg. Medicine against lumbago, kidney trouble, and rheumatism. No. 132,572; June 22; v. 275; p. 824.
Wade, R. M., & Co., Portland, Oreg. Power drag-saws. No. 129,095; Jan. 20; v. 270; p. 476.
Wadsworth, Howland & Co., Incorporated, Boston, Mass. Liquid paint. No. 131,874; May 25; v. 274; p. 835.
Wagner Electric Manufacturing Company, St. Louis, Mo. Electrical appliances. No. 136,245; Oct. 26; v. 279; p. 726.
Wagner Manufacturing Company, The, Sidney, Ohio. Metal baking-pan for corn-bread and the like. No. 136,976; Nov. 9; v. 280; p. 384.
Wagner Manufacturing Company, Indianapolis, Ind. Flexible toilet-seat covers. No. 137,894; Dec. 7; v. 281; p. 199.
Wahl Company, The, Chicago, Ill. Fountain-pens and parts thereof. No. 130,432; Apr. 20; v. 273; p. 624.
Wahl, Manfred, Philadelphia, Pa. Culture or ferment for the production of cereal beverages. No. 132,573; June 22; v. 275; p. 824.
Wahlert & Guntzler, St. Louis, Mo. Feathers. No. 129,240; Jan. 27; v. 270; p. 617.
Wainwright, A. B., Company, Philadelphia, Pa. Prepared roofings. No. 130,438; Apr. 20; v. 273; p. 624.
Wais, Mary, Newark, N. J. Medicinal tonic. No. 135,100; Sept. 21; v. 278; p. 536.
Wakefield, Clarence E., Worcester, Mass. Wrenches. No. 132,574; June 22; v. 275; p. 824.
Walcoff, Phil., & Co., Inc., New York, N. Y. Boys' outer clothing. No. 129,241; Jan. 27; v. 270; p. 617.
Walcoff, Phil, & Co., New York, N. Y. Boy's clothing, outer. No. 129,916; Mar. 9; v. 272; p. 369.
Walcott Manufacturing Company, The, Hartford, Conn. Electric dish-washing machines and parts thereof. No. 131,887; May 25; v. 274; p. 835.
Waldes & Co., Prague, Bohemia. Portable cigarette-makers and cigarette-tubes. No. 130,134; Apr. 6; v. 273; p. 182.
Waldes & Co., Prague, Bohemia. Fancy goods, furnishings, and notions, &c. No. 130,434; Apr. 20; v. 273; p. 624.
Waldes & Co., Prague, Bohemia. Placket-fasteners, glove-fasteners, buttons, clasps. No. 130,435; Apr. 20; v. 273; p. 624.
Waldes & Co., Prague, Bohemia. Fancy goods, furnishings, and notions. No. 130,436; Apr. 20; v. 273; p. 624.
Waldes & Co., Prague, Bohemia. Placket-fasteners, glove-buttons, &c. Nos. 130,971–4; May 4; v. 274; p. 192.
Waldes & Co., Prague, Bohemia. Notions. Nos. 130,975–6; May 4; v. 274; p. 192.
Waldes & Co., Prague, Bohemia. Fancy goods and notions. No. 130,977; May 4; v. 274; p. 192.
Waldes & Co., Prague, Bohemia. Notions. No. 130,978; May 4; v. 274; p. 192.
Waldes & Co., Prague, Bohemia. Fancy goods and notions. No. 130,979; May 4; v. 274; p. 192.
Waldes & Co., Prague, Bohemia. Notions. No. 130,980; May 4; v. 274; p. 192.
Waldes & Co., Prague, Bohemia. Placket, glove, and snap fasteners, buttons, clasps, &c. No. 131,261; May 4; v. 274; p. 201.
Waldes & Co., Prague, Bohemia. Notions. Nos. 131,262–3; May 4; v. 274; p. 201.
Waldes & Co., Prague, Bohemia. Notions. No. 132,576; June 22; v. 275; p. 824.
Waldes & Co., Prague, Bohemia. Placket, glove, and snap fasteners, buttons and clasps. No. 132,853; June 29; v. 275; p. 1020.
Waldes & Co., Prague, Bohemia. Notions. No. 132,854; June 29; v. 275; p. 1020.
Waldes & Co., Prague, Bohemia. Notions. Nos. 133,079–82; July 6; v. 276; p. 205.
Waldes & Co., Prague, Bohemia. Placket, glove, and snap fasteners, buttons, clasps. No. 133,862; Aug. 3; v. 277; p. 178.
Waldes & Co., Prague, Bohemia. Fancy goods, furnishings, and notions. No. 133,863; Aug. 3; v. 277; p. 178.
Waldes & Co., Inc., Long Island City, N. Y. Snap-fasteners. No. 134,455; Aug. 31; v. 277; p. 974.

Digitized by Google

Waldes & Co., Prague, Bohemia. Placket and glove fasteners, knitting and crochet needles, buttons, thimbles, &c. Nos. 134,554–5; Sept. 7; v. 278; p. 161.
Waldes & Co., Inc., Long Island City and New York, N. Y. Metal tape for binding packages. No. 135,548; Oct. 12; v. 279; p. 346.
Waldes & Co., Prague, Bohemia. Fancy goods, furnishings, and notions. No. 136,246; Oct. 26; v. 279; p. 726.
Waldes & Co., Prague, Bohemia. Toilet-paper, paper napkins, silk and Japanese paper, &c. No. 137,895; Dec. 7; v. 281; p. 199.
Waldes & Co., Prague, Bohemia. Paper. Nos. 137,896–7; Dec. 7; v. 281; p. 199.
Waldo Bros. and Bond Company, Boston, Mass. Asphalt roofing. No. 137,404; Nov. 23; v. 280; p. 798.
Wales Adding Machine Company, Kingston borough, Pa. Adding, listing, and calculating machines. No. 134,190; Aug. 17; v. 277; p. 282.
Wales, Estate of George E., Newton Center, Mass. Jellies, jam, and fruit preserves. No. 134,456; Aug. 31; v. 277; p. 974.
Walker, Ella, Manufacturing Company, Sioux City, Iowa. Hair and scalp preparation. No. 128,893; Jan. 13; v. 270; p. 344.
Walker, Harry, and Son (Leeds), Limited, Leeds, England. Boots and shoes. No. 136,685; Nov. 2; v. 280; p. 189.
Walker, Hiram, & Sons Metal Products, Limited, Walkerville, Ontario, Canada. Heat-resisting castings. No. 130,590; Apr. 27; v. 273; p. 806.
Walker Hosiery Mills Co., Burlington, N. C. Hosiery. No. 132,269; June 15; v. 275; p. 621.
Walker, James, & Co. Ltd., London, England. Sheet-packing for steam, air, hydraulic, or other joints. No. 137,074; Nov. 16; v. 280; p. 585.
Walker, James, & Co. Ltd., London, England. Steam and hydraulic packing. No. 137,075; Nov. 16; v. 280; p. 585.
Walker, James & Co. Ltd., London, England. Packings and jointings. No. 137,405; Nov. 23; v. 280; p. 798.
Walker, John H. Ravensthorpe, near Dewsbury, England. Clothing. Nos. 135,844–5; Oct. 19; v. 279; p. 533.
Walker-Matteson Co., Joliet, Ill. Canned goods, mustard, catsup, &c. No. 129,096; Jan. 20; v. 270; p. 476.
Walker-Matteson Company, Joliet, Ill. Grape-juice and ginger-ale. No. 131,876; May 25; v. 274; p. 835.
Walker-Matteson Company, Joliet, Ill. Foods and ingredients of foods. No. 132,578; June 22; v. 275; p. 824.
Walker-Matteson Company, Joliet, Ill. Foods and ingredients of foods. No. 132,855; June 29; v. 275; p. 1020.
Walker-Matteson Company, Joliet, Ill. Table-salt. No. 133,540; July 27; v. 276; p. 772.
Walker-Matteson Company, Joliet, Ill. Jar-rubbers. No. 134,842; Sept. 14; v. 278; p. 361.
Walker, R., & Sons, Limited, Leicester, England. Clothing. No. 133,864; Aug. 3; v. 277; p. 178.
Walker, William, & Sons Limited, Bolton, England. Leather and skins. No. 129,318; Feb. 10; v. 271; p. 857.
Walker Yarn Company, Boston, Mass. Worsted fingering-yarn. No. 132,066; June 8; v. 275; p. 416.
Wall, Ed W., Corpus Christi, Tex. Salve for sores, cuts, burns, and rheumatism. No. 136,247; Oct. 26; v. 279; p. 726.
Wall, Ochs, Incorporated, Philadelphia, Pa. Spectacles, eyeglasses, barometers, &c. No. 133,338; July 20; v. 276; p. 593.
Wall & Ochs, Incorporated, Philadelphia, Pa. Spectacles, eyeglasses, ophthalmic lenses, field-glasses, &c. Nos. 135,549–50; Oct. 12; v. 279; p. 346.
Wall Paper Manufacturers Ltd., The, London, England. Paper hangings. No. 134,556; Sept. 7; v. 278; p. 161.
Walla Walla Gardener's Association, Walla Walla, Wash. Fresh onions. No. 130,981; May 4; v. 274; p. 192.
Wallace & Co., Brooklyn, N. Y. Chocolates and candies. Nos. 134,328–9; Aug. 24; v. 277; pp. 783–4.
Wallace & Co., Brooklyn, N. Y. Candies. No. 136,977; Nov. 9; v. 280; p. 384.
Wallace & Freed Incorporated, Seattle, Wash. Songs, sheet-music, &c. No. 134,843; Sept. 14; v. 278; p. 361.
Wallace Manufacturing Co. Inc., New York, N. Y. Spark-plug tools. No. 131,385; May 11; v. 274; p. 402.
Wallace, Robert L., and J. J. Opie, St. Louis, Mo. Writing-paper and envelops. No. 129,917; Mar. 9; v. 272; p. 368.
Wallace Roberts Canning Company, Woodstown, N. J. Jellies, fruit jams, table preserves, canned fruits, and vegetables. No. 135,188; Sept. 21; v. 278; p. 540.
Wallace & Smith Company, The, La Porte, Ind. Blankets and robes. No. 135,356; Sept. 28; v. 278; p. 706.
Wallenstein, Leo, Brooklyn, N. Y. Stencils. No. 135,846; Oct. 19; v. 279; p. 533.
Wallis Tractor Company, Racine, Wis. Tractors. No. 130,982; May 4; v. 274; p. 192.
Walnut Export Sales Co., Inc., Dover, Del., and New York, N. Y. Lumber. No. 131,928; May 25; v. 274; p. 836.
Walraven Brothers, Dallas, Tex. Loose-leaf binders. No. 129,918; Mar. 9; v. 272; p. 369.
Walsh, Jerome A., New York, N. Y. Non-alcoholic malt-less beverage. No. 136,978; Nov. 9; v. 280; p. 384.
Walsh, Thomas A., Yonkers, N. Y. Bacteriological culture of Bacillus bulgaricus for diarrhea in chicks and fowls. No. 130,245; Apr. 13; v. 273; p. 404.
Walsh, Thomas A., Yonkers, N. Y. Bacterial culture of bacillus bulgaricus. No. 132,519; June 22; v. 275; p. 824.
Walter Concrete Machinery Co., Indianapolis, Ind. Concrete-roofing-tile machines. No. 137,406; Nov. 23; v. 280; p. 795.
Walter-William Therapeutic Laboratories, Inc., New York, N. Y. Preparations for the relief of constipation and other intestinal disorders of women. No. 131,673; May 18; v. 274; p. 610.
Walter-William Therapeutic Laboratories, Inc., New York, N. Y. Preparation for the treatment of dysmenorrhea, &c. No. 131,674; May 18; v. 274; p. 610.
Waltersdorff, John C., Menges Mills, Pa. Food-flavoring extracts. No. 137,574; Nov. 30; v. 280; p. 996.
Waltham Grinding Wheel Co., The, Waltham, Mass. House organ published monthly. No. 137,737; Nov. 30; v. 280; p. 1001.
Waltham Grinding Wheel Company, Waltham, Mass. Grinding-wheels. No. 136,276; Oct. 26; v. 279; p. 727.
Waltham Shirt Co., New York, N. Y. Dress, negligée, and work shirts. No. 132,580; June 22; v. 275; p. 824.
Waltham Watch Company, Waltham, Mass. Watch materials, watches, watch-cases. No. 130,437; Apr. 20; v. 273; p. 624.
Waltham Watch Company, Waltham, Mass. Periodical publication. No. 137,407; Nov. 23; v. 280; p. 798.
Waltman, Harry J., Baltimore, Md. Corn and bunion remedy. No. 129,560; Feb. 24; v. 271; p. 681.
Walton, Thompson G., Chicago, Ill. Preparation for a medicinal tonic for treatment of stomach, kidneys, liver, and bowels. No. 134,559; Sept. 7; v. 278; p. 161.
Walworth Manufacturing Company, Boston, Mass. Hardware and plumbing and steam-fitting supplies. No. 133,195; July 13; v. 276; p. 404.
Walworth Manufacturing Company, Boston, Mass. Pipe-wrenches. No. 133,190; July 13; v. 276; p. 404.
Walworth Manufacturing Co., Boston, Mass. Plumbing-fixtures of enamel, china, or porcelain ware. No. 137,408; Nov. 23; v. 280; p. 798.
Walworth Mfg. Co., Boston, Mass. Wrenches. No. 135,847; Oct. 19; v. 279; p. 533.
Wamsutta Mills, New Bedford, Mass. Cotton piece goods. No. 129,919; Mar. 9; v. 272; p. 369.
Wanamaker, John, New York, New York, N. Y. Cotton and wool mixture blankets. No. 129,920; Mar. 9; v. 272; p. 369.
Wanamaker, John, New York, N. Y. Corsets, corsettes, corsetettes, and brassières. No. 132,581; June 22; v. 275; p. 824.
Wanamaker, John, New York, New York, N. Y. Women's, misses', and children's outer wearing-apparel. No. 135,551; Oct. 12; v. 279; p. 346.
Wanamaker, John, Philadelphia, Philadelphia, Pa. Domestic or household refrigerators and water-coolers. No. 136,686; Nov. 2; v. 280; p. 189.
Wandell Chocolate Company, Inc., Baltimore, Md. Candy, candied nuts and fruits. No. 137,738; Nov. 30; v. 280; p. 1001.
Wanderer-Werke vorm. Winklhofer & Jaenicke, Aktiengesellschaft, Schönau, near Chemnitz, Germany. Stationery. No. 136,248; Oct. 26; v. 279; p. 726.
Waples-Platter Grocer Company, Denison, Tex. Certain named foods. No. 132,067; June 8; v. 275; p. 416.
Ward Baking Company, New York, N. Y. Bread. No. 131,264; May 4; v. 274; p. 201.
Ward Baking Company, New York, N. Y. Bread. Nos. 133,083–5; July 6; v. 276; p. 205.
Ward Baking Company, New York, N. Y. Bread. Nos. 134,118–19; Aug. 10; v. 277; p. 392.
Ward Baking Company, New York, N. Y. Bread. No. 134,292; Aug. 24; v. 277; p. 779.
Ward Baking Company, New York, N. Y. Cakes. No. 134,844; Sept. 14; v. 278; p. 361.
Ward Baking Company, New York, N. Y. Cakes. No. 136,979; Nov. 9; v. 280; p. 384.
Ward Baking Company, New York, N. Y. Bread and cakes. No. 137,409; Nov. 23; v. 280; p. 798.
Ward Bros. Co. Inc., Buffalo, N. Y. Bread. No. 135,848; Oct. 19; v. 279; p. 533.
Ward Bros. Co., Inc., Buffalo, N. Y. Bread. No. 138,521; Dec. 28; v. 281; p. 784.
Ward Brothers Company Inc., Rochester, N. Y. Baked goods—namely, bread. No. 135,552; Oct. 12; v. 279; p. 346.
Ward, C. E., Company, The, New London, Conn. Overall-garments. No. 130,983; May 4; v. 274; p. 192.
Ward, Dallis T., Chicago, Ill. Hair and scalp tonic. No. 132,856; June 29; v. 275; p. 1020.
Ward Drug Company, Tuscaloosa, Ala. Lotion for protection against insect pests. No. 129,561; Feb. 24; v. 271; p. 681.
Ward Motor Vehicle Company, Mount Vernon, N. Y. Automobiles. No. 130,984; May 4; v. 274; p. 192.
Ward, Samuel, Manufacturing Company, Boston, Mass. Fountain and steel pens, lead-pencils, &c. No. 128,563; Jan. 6; v. 270; p. 185.

Digitized by Google

Wardlow, Marmaduke, Sheffield, England. Tool-steel and steel in certain forms, &c. No. 137,899; Dec. 7; v. 281; p. 199.

Wardlow, Marmaduke, Sheffield, England. Cutlery, machines, and tools. No. 137,900; Dec. 7; v. 281; p. 199.

Wards', Edgar T., Sons Co., Boston, Mass. Tool-steel. No. 134,203; Aug. 17; v. 277; p. 582.

Wardwell Braiding Machine Company, Central Falls, R. I. Braiding-machines and parts thereof. No. 134,200; Aug. 17; v. 277; p. 582.

Ware Coated Paper Company, Ware, Mass. Proofing-paper. No. 136,980; Nov. 9; v. 280; p. 384.

Warner Bros. Co., Bridgeport, Conn. Hose-supporters. No. 130,438; Apr. 20; v. 273; p. 624.

Warner Bros. Co., The, Bridgeport, Conn. Waterproof diaper-covers. No. 130,985; May 4; v. 274; p. 192.

Warner Brothers Company, The, Bridgeport, Conn. Brassière combination-undergarments and undergarments for women. No. 133,087; July 6; v. 276; p. 205.

Warner-Godfrey Co., New York, N. Y. Silk, cotton and silk, wool), &c., piece goods. No. 128,564; Jan. 6; v. 270; p. 185.

Warner-Godfrey Co., New York, N. Y. Silk, cotton, &c., piece goods. No. 128,565; Jan. 6; v. 270; p. 185.

Warner-Godfrey Co., New York, N. Y. Cotton piece goods. No. 132,270; June 15; v. 275; p. 621.

Warner-Godfrey Co., New York, N. Y. Cotton piece goods. No. 134,457; Aug. 31; v. 277; p. 974.

Warner-Godfrey Co., New York, N. Y. Cotton piece goods—viz., voile. No. 136,249; Oct. 26; v. 279; p. 726.

Warner Lenz Company, (now by change of name Warner-Patterson Company,) Chicago, Ill. Light refracting or diffusing glasses for headlights. No. 130,246; Apr. 13; v. 273; p. 404.

Warner-Patterson Company. (See Warner Lenz Company.)

Warner, Paul S., Madison, Wis. Printed blank forms. No. 138,522; Dec. 28; v. 281; p. 784.

Warren Brothers Company, Boston, Mass. Pavements and paving material containing bituminous matter. No. 132,068; June 8; v. 275; p. 416.

Warren Tool and Forge Company, The, Warren, Ohio. Tools. No. 134,201; Aug. 17; v. 277; p. 582.

Warrensburg Canning Company, Warrensburg, Ill. Canned sugar-corn. No. 130,439; Apr. 20; v. 273; p. 624.

Warrensburg Canning Company, Warrensburg, Ill. Canned sugar-corn. No. 130,986; May 4; v. 274; p. 192.

Warrensburg Canning Company, Warrensburg, Ill. Canned sugar-corn. No. 136,981; Nov. 9; v. 280; p. 384.

Warrenton Clam Co., Warrenton, Oreg. Canned fish, fruits, and vegetables. No. 135,849; Oct. 19; v. 279; p. 533.

Warshavsky, David, New York, N. Y. Snap-fasteners. No. 129,242; Jan. 27; v. 270; p. 617.

Washauer, S., San Francisco, Calif. Clothing, particularly overalls, work-shirts, and pants. No. 137,410; Nov. 23; v. 280; p. 798.

Washburn Crosby Co., Minneapolis, Minn. Wheat-flour. No. 131,665; May 18; v. 274; p. 610.

Washburn Crosby Co., Minneapolis, Minn. Wheat-flour. No. 132,857; June 29; v. 275; p. 1020.

Washburn Crosby Co., Minneapolis, Minn. Wheat-flour. Nos. 133,943–4; Aug. 10; v. 277; p. 386.

Washburn-Crosby Company, Minneapolis, Minn. Wheat-flour. Nos. 134,293–7; Aug. 24; v. 277; p. 779.

Washburn Crosby Company, Minneapolis, Minn. Wheat-flour. No. 135,850; Oct. 19; v. 279; p. 533.

Washburn Crosby Co., Minneapolis, Minn. Wheat-flour. No. 136,250–1; Oct. 26; v. 279; p. 726.

Washburn Crosby Co., Minneapolis, Minn. Wheat-flour. No. 136,982; Nov. 9; v. 280; p. 384.

Wash-Co. Alfalfa Milling Co., Riverton, Wyo., and Fort Calhoun and Nebraska City, Nebr. Mixed live-stock feed. No. 128,566; Jan. 6; v. 270; p. 185.

Washer Maid Company, Chicago, Ill. Soap. No. 130,135; Apr. 6; v. 273; p. 182.

Washington Fruit & Produce Co., Yakima, Wash. Fresh apples. No. 128,567; Jan. 6; v. 270; p. 186.

Washington Motor Company, The, Eaton, Ohio. Automobiles. No. 137,739; Nov. 30; v. 280; p. 1001.

Washington Tire & Rubber Company, Spokane, Wash. Rubber and fabric vehicle-tires, tubes, boots, and tire-patches. Nos. 133,339–40; July 20; v. 276; p. 593.

Wasserman, Jesse H., New York, N. Y. Piston-rings. No. 134,557; Sept. 7; v. 278; p. 161.

Waterbury Jewel Company, Waterbury, Conn. Pipe-covers. No. 130,987; May 4; v. 274; p. 192.

Waterloo Canning Association, Waterloo, Wis. Canned corn and canned peas. No. 130,440; Apr. 20; v. 273; p. 624.

Waterman, A. A., and Company, Chicago, Ill. Fountain-pens. No. 129,921; Mar. 9; v. 272; p. 369.

Waterman, Harry S., San Francisco, Calif. Automobile theft-locks. No. 136,252; Oct. 26; v. 279; p. 726.

Waterman, J. S., & Sons Inc., Boston, Mass. Burial-caskets, &c. No. 138,155; Dec. 14; v. 281; p. 402.

Waterman, Mabel, New Rochelle, N. Y. Toy animals. No. 135,101; Sept. 21; v. 278; p. 536.

Waterproof Garment Co., Portland, Oreg. Hats, coats, trousers, &c. No. 138,364; Dec. 21; v. 281; p. 567.

Waterproof Oil Products Co., Seattle, Wash. Leather-shoe dressing. No. 137,076; Nov. 16; v. 280; p. 585.

Waterproofings Manufacturing Co., The, Scranton, Pa. Auto-top dye and dressing. No. 135,582; June 22; v. 275; p. 825.

Waterproofings Manufacturing Co., The, Scranton, Pa. Auto-top dye and dressing in the nature of a preservative. No. 134,120; Aug. 10; v. 277; p. 392.

Waters, Cleveland L., Seattle, Wash. Hair-restorer. No. 134,558; Sept. 7; v. 278; p. 161.

Waters, Horace, & Co., New York, N. Y. Pianos. No. 134,866; Sept. 14; v. 278; p. 364.

Waters and Waters Manufacturing Company, St. Louis, Mo. Carbon-paper and inked ribbons. No. 135,553; Oct. 12; v. 279; p. 346.

Waters and Waters Manufacturing Company, St. Louis, Mo. Carbon-paper and inked ribbons. No. 136,983; Nov. 9; v. 280; p. 384.

Waters-Weismann Co. Inc., Binghamton, N. Y. Petticoats. No. 137,518; Nov. 23; v. 280; p. 805.

Wathen Milling Company, Louisville, Ky. Fine grits, pearl-hominy, &c. No. 129,243; Jan. 27; v. 270; p. 617.

Watkins, Edwin D., Memphis, Tenn. Toilet preparation—namely, skin-cream. No. 135,102; Sept. 21; v. 278; p. 536.

Watkins, John R., Norfolk, Va. Hair-tonic and toilet deodorant. No. 133,880; Aug. 3; v. 277; p. 179.

Watson, Mamie E., Jackson, Miss. Hair-grower. No. 134,845; Sept. 14; v. 278; p. 361.

Watters Candy Company, Everett, Wash. Chocolate candy. No. 131,929; May 25; v. 274; p. 836.

Watters Corporation, The, Wilmington, Del., and St. Louis, Mo. Automatic account-finding and pay-roll-scheduling machines. No. 138,156; Dec. 14; v. 281; p. 402.

Watts, Ritter & Company, Huntington, W. Va., and New York, N. Y. Sweater-coats. No. 133,865; Aug. 3; v. 277; p. 178.

Watts, Ritter & Company, Huntington, W. Va., and New York, N. Y. Underwear for men and women. No. 134,846; Sept. 14; v. 278; p. 361.

Watts, Ritter & Company, Huntington, W. Va., and New York, N. Y. Dress and negligée shirts. No. 135,554; Oct. 12; v. 279; p. 346.

Watts, Stebbins & Co., New York, N. Y. Brown sheeting. No. 129,889; Mar. 9; v. 272; p. 368.

Watts, Stebbins & Co., New York, N. Y. Cotton piece goods. No. 131,666; May 18; v. 274; p. 610.

Watts, Stebbins & Co., New York, N. Y. Cotton piece goods. No. 134,459; Aug. 31; v. 277; p. 975.

Watts, Stebbins & Co., New York, N. Y. Cotton piece goods. No. 135,555; Oct. 12; v. 279; p. 346.

Way, A. F., Company, Incorporated, Hartford, Conn. Machines, bucks, lathes, bars, &c. No. 131,877; May 25; v. 274; p. 835.

Wayne Knitting Mills, Fort Wayne, Ind. Women's hosiery. No. 133,285; July 20; v. 276; p. 591.

Wayne Manufacturing Company, St. Louis, Mo. Clothes-washing machines. No. 138,157; Dec. 14; v. 281; p. 402.

Webb, B. Lucas, Columbia, S. C. Wax and stain floor-finish. No. 132,583; June 22; v. 275; p. 825.

Webb, Chas., and Son, New York, N. Y. Sewing, embroidery, and knitting needles, knitting-pins, &c. No. 136,253; Oct. 26; v. 279; p. 726.

Weber, E., & Co., Philadelphia, Pa. Skin-balm. No. 128,894; Jan. 13; v. 270; p. 344.

Webb, William B., New York, N. Y. Hosiery. No. 138,367; Dec. 21; v. 281; p. 567.

Webber, Sebastian C., Brinkley, Ark. Non-alcoholic, non-cereal, maltless beverages and syrups for making the same. No. 138,368; Dec. 21; v. 281; p. 567.

Weber, Charles E., Roaring Spring, Pa. Nerve and bone liniment for certain named ailments. No. 132,584; June 22; v. 275; p. 825.

Weber, George E., Philadelphia, Pa. Silk, mercerized, and cotton hosiery. No. 129,317; Feb. 10; v. 271; p. 857.

Weber, George E., Philadelphia, Pa. Hosiery. No. 138,366; Dec. 21; v. 281; p. 567.

Weber, Jacob H., Brooklyn, N. Y. Talking-machines. No. 134,121; Aug. 10; v. 277; p. 392.

Weber, Jules, Inc., New York, N. Y. Oils of cotton-seed. No. 132,858; June 29; v. 275; p. 1020.

Weber-Schlitz Candy Co., Milwaukee, Wis. Hard candies. No. 131,667; May 18; v. 274; p. 610.

Weber, Wagner & Benson, New York, N. Y. Sterling-silver hollow ware, bowls, dishes, compotes, &c. No. 131,878; May 25; v. 274; p. 835.

Webster Electric Company, Racine, Wis. Ignition-magnetos. No. 131,265; May 4; v. 274; p. 201.

Webster, Frank B., Los Angeles, Calif. Polishing and cleansing compound for automobiles, &c. No. 129,097; Jan. 20; v. 270; p. 476.

Webster, Lawrence, Co., The, Malone, N. Y. Mackinaws, woolen shirts, storm-vests, trousers, and outer suits. No. 131,879; May 25; v. 274; p. 835.

Wedgerite Piston Ring Co. Inc., Detroit, Mich. Metal piston-rings. No. 129,922; Mar. 9; v. 272; p. 368.

Weed, Howard W., Stamford, Conn. Awning in the nature of wind-shield protector. No. 131,266; May 4; v. 274; p. 201.

Digitized by Google

Weidemann, George, Company, The, Newport, Ky. Non-beverage grain-alcohol. No. 136,702; Nov. 2; v. 280; p. 190.
Weihenmayer, William J., Philadelphia, Pa. Worsted knitting-yarns. No. 128,895; Jan. 13; v. 270; p. 344.
Weil, Maximilian, New York, N. Y. Devices for transmitting communication into transmitter of telephone sets. No. 134,122; Aug. 10; v. 277; p. 392.
Weil & Weil, Inc., New York, N. Y. Ladies' waists and blouses. No. 136,687; Nov. 2; v. 280; p. 189.
Weinberg & Bisbing, New York, N. Y. Umbrellas. No. 132,271; June 15; v. 275; p. 621.
Weinberg & Weinberg, New York, N. Y. Dress, negligée, and work shirts, and knit and athletic underwear for men. No. 132,272; June 15; v. 275; p. 621.
Weinberg, L., Baking Co., Cincinnati, Ohio. Bread. No. 134,560; Sept. 7; v. 278; p. 161.
Weinhard, Henry, Estate, Portland, Oreg. Non-intoxicating malt beverage. No. 133,866; Aug. 3; v. 277; p. 178.
Weinrod & Kaempfer Inc., New York, N. Y. Clothing. No. 135,851; Oct. 19; v. 279; p. 533.
Weinstein, David B., Chicago, Ill. Candy tablets. No. 137,077; Nov. 16; v. 280; p. 585.
Weinthrop Company, The, Chicago, Ill. Games. No. 133,867; Aug. 3; v. 277; p. 179.
Weir & Craig Company, Chicago, Ill. Backwater-valves, water and steam traps. No. 138,158; Dec. 14; v. 281; p. 402.
Welsberg, Benjamin C., New York, N. Y. Butter-scotch candy. No. 128,568; Jan. 6; v. 270; p. 186.
Welser Air-Storage Co., Welser, Wash. Fresh apples. No. 131,946; June 1; v. 275; p. 199.
Weiss, Frederic H., Cincinnati, Ohio. Candy. No. 128,569; Jan. 6; v. 270; p. 186.
Weiss, Morris, New York, N. Y. Ladies' dresses, suits, and wraps. No. 136,688; Nov. 2; v. 280; p. 189.
Weissenbach & Kay Inc., New York, N. Y. Piece goods. No. 129,923; Mar. 9; v. 272; p. 369.
Weissenbach & Kay Inc., New York, N. Y. Knitted, netted, and textile fabrics. No. 129,924; Mar. 9; v. 272; p. 369.
Welch, E. M., Cleveland, Ohio. General medicinal tonic. No. 135,103; Sept. 21; v. 278; p. 536.
Welch Grape Juice Company, The, Westfield, N. J. Jam, jelly, fruit preserves, and conserves. No. 136,689; Nov. 2; v. 280; p. 189.
Welch Grape Juice Company, Westfield, N. Y. Jam, jelly, fruit preserves, &c. No. 137,078; Nov. 16; v. 280; p. 585.
Welch Grape Juice Company, The, Westfield, N. Y. Jam, jelly, fruit preserves, &c. No. 137,411; Nov. 23; v. 280; p. 798.
Welisch, W. T., & Co., Inc., San Francisco, Calif. Rice. Nos. 134,460–2; Aug. 31; v. 277; p. 975.
Welisch, W. T., & Co., Inc., San Francisco, Calif. Rice. Nos. 135,104–58; Sept. 21; v. 278; pp. 536–7.
Weller Manufacturing Company, Chicago, Ill. Grain-handling machinery. No. 128,896; Jan. 13; v. 270; p. 344.
Well-Maid Confection Co. Inc., New York, N. Y. Peanut brittle. No. 138,554; Dec. 28; v. 281; p. 787.
Wellman-Peck & Co., San Francisco, Calif. Foods and ingredients of foods. No. 131,386; May 11; v. 274; p. 402.
Wellman-Seaver-Morgan Company, Cleveland, Ohio. Tractors. No. 129,245; Jan. 27; v. 270; p. 617.
Wells, Henry M., London, England. Heating-oils, illuminating-oils, and lubricating-oils. No. 128,570; Jan. 6; v. 270; p. 186.
Wells-Lamont Manufacturing Company, Minneapolis, Minn. Leather and fabric gloves. No. 129,562; Feb. 24; v. 271; p. 681.
Wells-Lamont Manufacturing Company, Minneapolis, Minn. Fabric and leather-faced fabric and leather gloves. No. 132,273; June 15; v. 275; p. 621.
Wells-Lamont Manufacturing Company, Minneapolis, Minn. Cotton gloves. No. 138,369; Dec. 21; v. 281; p. 567.
Wells Manufacturing Company, The, Youngstown, Ohio. Cleaning and cleansing compounds. No. 137,079; Nov. 16; v. 280; p. 585.
Welsher, Samuel I., New York, N. Y. Soap flakes. No. 135,159; Sept. 21; v. 278; p. 537.
Welte, M., & Sons, Inc., assignor to Welte-Mignon Corporation, New York, N. Y. Self-playing pianos and piano-players. No. 137,745; Nov. 30; v. 280; p. 1002.
Welte, M., & Sons, Inc., Poughkeepsie and New York, assignor to Welte-Mignon Corporation, New York, N. Y. Pianos, player-pianos, &c. No. 137,746; Nov. 30; v. 280; p. 1002.
Welte-Mignon Corporation. (See Welte, M., & Sons, assignor.)
Weltin, Mrs. Minnie, Quincy, Ill. Wheat-flour. No. 136,691; Nov. 2; v. 280; p. 189.
Wendland, Herman G., Bay City, Mich. Hosiery. No. 136,692; Nov. 2; v. 280; p. 189.
Wenzelmann, Gustave, Galesburg, Ill. Powdered substance for cleaning purposes. No. 128,571; Jan. 6; v. 270; p. 186.
Wenzelmann, Gustave, Galesburg, Ill. Sectional buildings ready cut, assembled into sections, and portable. No. 130,591; Apr. 27; v. 273; p. 805.
Wenzelmann, Gustave, Galesburg, Ill. Clothes-washing machines, clothes-wringers, and combinations and parts of same. No. 133,868; Aug. 3; v. 277; p. 179.
Werner Film-Protector Manufacturing Company, St. Louis, Mo. Emollients for the preservation of motion-picture films, mica, &c. No. 129,925; Mar. 9; v. 272; p. 370.
Werner, William, New York, N. Y. Cigars and cigarettes. No. 130,136; Apr. 6; v. 273; p. 182.
Wernet, George L., Philadelphia, Pa. Powder for false teeth. No. 133,088; July 6; v. 276; p. 205.
Werth Mor Mfg. Co., Barberton, Ohio. Laundry tablets. No. 128,572; Jan. 6; v. 270; p. 186.
Wertheimer Bros., New York, N. Y. Silk and velvet ribbons. No. 130,442; Apr. 20; v. 273; p. 624.
Wertheimer Bros., New York, N. Y. Silk and velvet ribbons. No. 131,880; May 25; v. 274; p. 835.
Wertheimer, N., & Sons, Ligonier, Ind. Field-seeds. No. 130,441; Apr. 20; v. 273; p. 624.
Wertheimer, N., & Sons., Ligonier, Ind. Field-seeds. No. 132,859; June 29; v. 275; p. 1020.
Wertheimer, Samuel M., New York, N. Y. Men's cotton, mercerized, and silk hosiery. No. 135,160; Sept. 21; v. 278; p. 537.
West Coast Soap Co., Oakland, Calif. Laundry soap. No. 128,573; Jan. 6; v. 270; p. 186.
West Coast Soap Co., Oakland, Calif. Laundry soap. No. 131,875; May 25; v. 274; p. 835.
West Coast Soap Co., Oakland, Calif. Laundry soap. No. 134,123; Aug. 10; v. 277; p. 392.
West Coast Soap Co., Oakland, Calif. Soap chips. No. 136,254; Oct. 26; v. 279; p. 726.
West Coast Soap Co., Oakland, Calif. Washing-powder. No. 136,255; Oct. 26; v. 279; p. 726.
West Coast Pickling & Canning Co., Los Angeles, Calif. Canned fruits, vegetables, and sauer-kraut. No. 137,412; Nov. 23; v. 280; p. 798.
West End Brewing Co., Utica, N. Y. Non-alcoholic, non-cereal, maltless beverages, and syrups for making same. No. 135,556; Oct. 12; v. 279; p. 346.
West End Brewing Co., Utica, N. Y. Non-alcoholic, non-cereal, maltless beverages. No. 136,256; Oct. 26; v. 279; p. 726.
West End Brewing Co., Utica, N. Y. Non-alcoholic, non-cereal, maltless beverages and syrups for making the same. Nos. 136,984–6; Nov. 9; v. 280; p. 384.
West End Thread Company, The, Millbury, Mass. Threads and yarns. No. 138,213; Dec. 14; v. 281; p. 407.
West Indies Importing Co. Inc., Brooklyn, N. Y. Food products—viz., turtle meat and bouillon. No. 137,413; Nov. 23; v. 280; p. 798.
West, Jarold R., Denver, Colo. Cereal food. No. 131,267; May 4; v. 274; p. 201.
West Virginia Malleable Iron Co., Point Pleasant, W. Va. Malleable-iron castings. No. 134,204; Aug. 17; v. 277; p. 582.
West Virginia Pulp & Paper Company, New York, N. Y. Bond-paper. No. 128,575; Jan. 6; v. 270; p. 186.
Westbrook Elevator Mfg. Co., Danville, Va. Freight and passenger elevators. No. 137,416; Nov. 23; v. 280; p. 799.
Westcott Motor Car Company, Springfield, Ohio. Automobiles. No. 129,099; Jan. 20; v. 270; p. 476.
Westcott Motor Car Company, The, Springfield, Mass. Automobiles. No. 135,878; Oct. 19; v. 279; p. 536.
Westergaard, B., & Company, Brooklyn, N. Y. Cheese. No. 129,407; Feb. 17; v. 271; p. 509.
Western Boiler Pipe Company, Monmouth, Ill. Road-drags. No. 129,098; Jan. 20; v. 270; p. 476.
Western Bottle Mfg. Co., Chicago, Ill. Writing-paper. No. 130,988; May 4; v. 274; p. 192.
Western Canning Company, Oakland, Calif. Canned fruits. No. 131,387; May 11; v. 274; p. 402.
Western Canning Company, Oakland, Calif. Canned fruits. No. 131,881; May 25; v. 274; p. 835.
Western Canning Company, Oakland, Calif. Canned fruits. No. 136,257; Oct. 26; v. 279; p. 726.
Western Canning Company, Oakland, Calif. Canned fruits. Nos. 136,693–4; Nov. 2; v. 280; p. 189.
Western Chemical Company, Los Angeles, Calif. Detergent and scouring powder. No. 132,069; June 8; v. 275; p. 416.
Western Electric Company Incorporated, New York, N. Y. Electrical massaging-machines. No. 130,989; May 4; v. 274; p. 192.
Western Feed Manufacturers, Inc., Chicago, Ill. Horse feed. No. 132,860; June 29; v. 275; p. 1020.
Western Feed Manufacturers, Inc., Chicago, Ill. Scratch feed. Nos. 132,861–2; June 29; v. 275; pp. 1020–1.
Western Feed Manufacturers Inc., Chicago, Ill. Horse feed. Nos. 134,125–6; Aug. 10; v. 277; p. 392.
Western Feed Manufacturers, Inc., Chicago, Ill. Scratch feed. No. 134,124; Aug. 10; v. 277; p. 392.
Western Feed Manufacturers Inc., Chicago, Ill. Rabbit feed. No. 134,127; Aug. 10; v. 277; p. 392.
Western Feed Manufacturers, Inc., Chicago, Ill. Scratch feed. No. 134,128; Aug. 10; v. 277; p. 392.
Western Feed Manufacturers, Inc., Chicago, Ill. Stock feed. No. 134,129; Aug. 10; v. 277; p. 392.
Western Fisheries Company, The, Seattle, Wash. Canned salmon. No. 128,574; Jan. 6; v. 270; p. 186.
Western Fisheries Company, Seattle, Wash. Canned salmon. Nos. 128,897–8; Jan. 13; v. 270; p. 344.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Western Flour Mill Co., Davenport, Iowa. Wheat-flour. No. 137,414; Nov. 23; v. 280; p. 798.
Western Grocer Company, Oskaloosa and Marshalltown, Iowa. Foods and ingredients of foods. No. 131,208; May 4; v. 274; p. 201.
Western Hair Goods Company, Chicago, Ill. Face cream and powder, toilet waters. No. 128,899; Jan. 13; v. 270; p. 344.
Western Martha Washington Candies Co., Chicago, Ill. Crackers or biscuits. No. 136,695; Nov. 2; v. 280; p. 189.
Western Martha Washington Candies Co., Chicago, Ill. Candy, chocolate, taffy, crackers or biscuits. No. 136,696; Nov. 2; v. 280; p. 189.
Western Martha Washington Candies Co., Chicago, Ill. Candy. No. 138,159; Dec. 14; v. 281; p. 402.
Western News Company, The, assignor to Tel-O-Tone Phonograph Company, Chicago, Ill. Phonographs and phonograph-cabinets. No. 135,161; Sept. 21; v. 278; p. 537.
Western Newspaper Union, Omaha, Nebr. Bond-paper. No. 130,137; Apr. 6; v. 273; p. 182.
Western Oil Refining Co., Indianapolis, Ind. Lubricating-oil. No. 136,987; Nov. 9; v. 280; p. 384.
Western Pattern Works, Seattle, Wash. Aluminum coffee and tea pots, frying-pans, and stew-kettles. No. 137,415; Nov. 23; v. 280; p. 798.
Western Products Co., Cleveland, Ohio. Writing fluid. No. 135,852; Oct. 19; v. 279; p. 533.
Western Reserve Rubber Co., Kenmore, Ohio. Rubber toy balloons. No. 130,592; Apr. 27; v. 273; p. 805.
Western Rope & Manufacturing Company, Tulsa, Okla. Wire and manila ropes and wire cables. No. 133,089; July 6; v. 276; p. 205.
Western Wheeled Scraper Company, Aurora, Ill. Vehicles. No. 133,869; Aug. 3; v. 277; p. 179.
Western Wheeled Scraper Company, Aurora, Ill. Dump, spreader, and flat cars and dump-wagons. No. 135,162; Sept. 21; v. 278; p. 537.
Westfield Manufacturing Company, Westfield, Mass. Bicycles. No. 132,070; June 8; v. 275; p. 416.
Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electric heaters. No. 128,900; Jan. 13; v. 270; p. 344.
Westinghouse Union Battery Co., Swissvale, Pa. Secondary batteries and connectors thereof. No. 136,697; Nov. 2; v. 280; p. 189.
Westinghouse Union Battery Co., Swissvale borough, Pa. Secondary batteries and connectors therefor. Nos. 137,417–8; Nov. 23; v. 280; p. 799.
Westinghouse Union Battery Co., Swissvale borough, Pa. Secondary batteries. No. 137,419; Nov. 23; v. 280; p. 799.
Westmoreland Candy Co., Inc., Richmond, Va. Candy. No. 134,298; Aug. 24; v. 277; p. 779.
Westmoreland Candy Co., Inc., Richmond, Va. Candies. No. 136,698; Nov. 2; v. 280; p. 189.
Wexler, Jacob, St. Louis, Mo. Furniture and automobile polish or gloss for any woodwork. No. 136,699; Nov. 2; v. 280; p. 190.
Weyand, Edith V. C., New York, N. Y. Textile fabrics. No. 137,750; Nov. 30; v. 280; p. 1003.
Weyerhaeuser Forest Products, St. Paul, Minn. Unfinished lumber, timber, and logs. No. 132,863; June 29; v. 275; p. 1021.
Weyerhaeuser Forest Products, St. Paul, Minn. Construction materials. No. 133,341; July 20; v. 276; p. 593.
Wharton, William, Jr., & Co., Incorporated, Philadelphia and Easton, Pa. Tractor-wheels. No. 129,246; Jan. 27; v. 270; p. 617.
What Cheer Braid Company, Providence, R. I. Shoe strings and lacings, tapes, galloons. No. 129,248; Jan. 27; v. 270; p. 617.
Wheel Chart Company, Kansas City, Mo. Service-record charts. No. 129,926; Mar. 9; v. 272; p. 370.
Wheeler, Hayden W., & Co., New York, N. Y. Imitation pearls and pearl necklaces. No. 131,882; May 25; v. 274; p. 835.
Wheeler Optical Company, Portland, Oreg. Eye Remedy. No. 131,388; May 11; v. 274; p. 402.
Wheelock, Lovejoy & Company Inc., Cambridge, Mass.; New York, N. Y., and Cleveland, Ohio. Tool-steels. No. 137,420; Nov. 23; v. 280; p. 799.
Whippel, Elsie, Cincinnati, Ohio. Medicinal and pharmaceutical preparations. No. 138,526; Dec. 28; v. 281; p. 784.
Whistle Bottling Co., Norfolk, Va. Non-intoxicating malt-less non-cereal beverages. No. 131,668; May 18; v. 274; p. 610.
Whitaker Paper Company, The, Cincinnati, Ohio. Wrapping-paper. No. 129,408; Feb. 17; v. 271; p. 509.
Whitaker Paper Company, The, Cincinnati, Ohio. Cover-paper. No. 134,130; Aug. 10; v. 277; p. 392.
Whitaker Paper Company, The, Cincinnati, Ohio. Wrapping-paper. No. 135,163; Sept. 21; v. 278; p. 537.
Whitaker Paper Company, The, Cincinnati, Ohio. Printing-paper. No. 135,164; v. 278; p. 587.
Whitaker Paper Company, The, Cincinnati, Ohio. Bond-paper. No. 136,258; Oct. 26; v. 279; p. 726.
White, A. J., Limited, New York, N. Y. Paper handkerchiefs. No. 136,988; Nov. 9; v. 280; p. 385.
White, Bert L., Company, Chicago, Ill. Advertising-folders. No. 129,927; Mar. 9; v. 272; p. 370.
White, Bert L., Company, Chicago, Ill. Advertising-cards. No. 134,131; Aug. 10; v. 277; p. 392.
White, Bert L., Company, Chicago, Ill. Advertising-folders. Nos. 134,132–3; Aug. 10; v. 277; p. 392.
White Company, The, Cleveland, Ohio. Automobiles and motor-trucks. No. 133,541; July 27; v. 276; p. 772.
White, David G., Boston, Mass. Practice telegraph-keys. No. 132,585; June 22; v. 275; p. 825.
White, Frank O., Belleville, Ill. Metal, wicker leather, &c., lounges and vehicle-seats. No. 130,138; Apr. 6; v. 273; p. 182.
White, Fred H., Charlotte, N. C. Cocoa-pudding. No. 137,740; Nov. 30; v. 280; p. 1001.
White, Harry L., Wheeling, W. Va. Ladies' and misses' clothing. No. 137,741; Nov. 30; v. 280; p. 1001.
White Heat Products Company, Frazer, Pa. Grindstones, whetstones, and abrasive powder. No. 136,700; Nov. 2; v. 280; p. 190.
White, Henry P., Kalamazoo, Mich. Toilet water and healing-lotion, shampoo preparation, &c. No. 129,928; Mar. 9; v. 272; p. 370.
White, James F., & Co., Inc., New York, N. Y. Crash toweling. No. 129,929; Mar. 9; v. 272; p. 370.
White, James F., & Co., New York, N. Y. Textile cotton, union, and all-linen goods in the piece. No. 132,274; June 15; v. 275; p. 621.
White, James F., & Co., New York, N. Y. Toweling. No. 133,542; July 27; v. 276; p. 772.
White, John F., Chicago, Ill. Salves and ointments. No. 129,563; Feb. 24; v. 271; p. 681.
White, Lillie, Los Angeles, Calif. Planchette-boards. No. 135,557; Oct. 12; v. 279; p. 346.
White, Louis P., Philadelphia, Pa. Gold and silver mounted articles. No. 129,930; Mar. 9; v. 272; p. 370.
White, Louis P., Philadelphia, Pa. Clocks and watches. No. 130,991; May 4; v. 274; p. 193.
White, S. S., Dental Manufacturing Company, The, Philadelphia, Pa. Dental goods. No. 138,523; Dec. 28; v. 281; p. 784.
White Star Canning Co., East San Pedro, Calif. Canned tuna fish. No. 132,275; June 15; v. 275; p. 621.
White Star Canning Co., East San Pedro, Calif. Canned tuna fish. No. 133,870; Aug. 3; v. 277; p. 179.
White Star Refining Co., Detroit, Mich. Asphalt shingles, roofing papers and cements. No. 129,101; Jan. 20; v. 270; p. 477.
White-Stokes Co., Inc., Chicago, Ill. Cocoa, icing, cake-filler, &c. No. 128,576; Jan. 6; v. 270; p. 186.
White Stokes Co. Inc., Chicago, Ill. Marshmallow inner layers or filling, toppings for cakes, &c. No. 128,901; Jan. 13; v. 270; p. 345.
White Stokes Co. Inc., Chicago, Ill. Icings and toppings for foods. No. 130,992; May 4; v. 274; p. 193.
White Stokes Co. Inc., Chicago, Ill. Sweetened material used as a filler and topping in the manufacture of confectionery. No. 137,421; Nov. 23; v. 280; p. 799.
White, Theodore H., Los Angeles, Calif. Planchette-boards. No. 129,100; Jan. 20; v. 270; p. 477.
White-Valentine Company, Urbana, Ohio. Brooms. No. 133,871; Aug. 3; v. 277; p. 179.
White & Wyckoff Manufacturing Company, Holyoke, Mass. Stationery. No. 133,543; July 27; v. 276; p. 772.
White & Wyckoff Manufacturing Company, Holyoke, Mass. Paper and stationery. No. 135,165; Sept. 21; v. 278; p. 537.
Whitehead, Daisy, Knitting Co., New York, N. Y. Hosiery. Nos. 137,519–20; Nov. 23; v. 280; p. 805.
Whitehouse Brothers. Newark, N. J. Buckles. No. 130,993; May 4; v. 274; p. 193.
Whitelite Electric Company, New York, N. Y. Incandescent lamps. Nos. 133,090–1; July 6; v. 276; p. 205.
Whiting Paper Company, Holyoke, Mass. Writing-paper. No. 129,931; Mar. 9; v. 272; p. 370.
Whiting Paper Company, Holyoke, Mass. Paper and envelops. No. 129,932; Mar. 9; v. 272; p. 370.
Whiting Paper Company, Holyoke, Mass. Fine writing-paper. No. 130,443; Apr. 20; v. 273; p. 624.
Whiting Paper Company, Holyoke, Mass. Ledger-paper, bond and linen writing-paper, and mailing-envelops. No. 130,444; Apr. 20; v. 273; p. 624.
Whiting Paper Company, Holyoke, Mass. Fine writing-paper. No. 130,994; May 4; v. 274; p. 193.
Whiting Paper Company, Holyoke, Mass. Writing-paper and mailing-envelops. No. 131,269; May 4; v. 274; p. 201.
Whiting Paper Company, Holyoke, Mass. Writing-paper and mailing-envelops. No. 132,276; June 15; v. 275; p. 621.
Whiting Paper Company, Holyoke, Mass. Fine writing-paper. No. 132,586; June 22; v. 275; p. 825.
Whiting Paper Company, Holyoke, Mass. Bristol-board. No. 134,134; Aug. 10; v. 277; p. 392.
Whiting Paper Company, Holyoke, Mass. Writing-paper and mailing-envelops. No. 134,135; Aug. 10; v. 277; p. 392.
Whitlock Cordage Co., New York, N. Y. Manila rope. No. 130,139; Apr. 6; v. 273; p. 182.
Whitman, Harry M., Canton, Pa. Unitary electric-lighting plants and parts thereof. No. 135,359; Sept. 28; v. 278; p. 706.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Whitman, Stephen F., & Son, Philadelphia, Pa. Candy. No. 138,160; Dec. 14; v. 281; p. 402.
Whitmore-Tirrell Shoe Corporation, Weymouth, Mass. Leather boots and shoes. No. 133,092; July 6; v. 276; p. 205.
Whitmore, Vaughn D., Ceres, Calif. Fresh fruits—namely, grapes. No. 131,257; May 4; v. 274; p. 201.
Whitney, Charles B., Decatur, Ill. Polishes for automobiles, furniture, woodwork, and the like. No. 131,883; May 25; v. 274; p. 835.
Whitney-Eckstein Seed Co., Buffalo, N. Y. Grass and lawn seed, lawn-grass, &c. No. 136,259; Oct. 26; v. 279; p. 726.
Whitney, Rowena L., Springfield, Mass. Fabric shoes for children. No. 129,249; Jan. 27; v. 270; p. 617.
Whitney, W. F., Company, South Ashburnham, Mass. Ordinary chairs in domestic use. No. 136,260; Oct. 26; v. 279; p. 726.
Whittall, M. J., Associates, Worcester, Mass. Carpets. No. 129,933; Mar. 9; v. 272; p. 370.
Whittemore Brothers' Corporation, Cambridge, Mass. Dressing for leather and articles made therefrom. No. 130,594; Apr. 27; v. 273; p. 805.
Whittemore Brothers, Corporation, Cambridge, Mass. Leather-dressing. Nos. 131,669–71; May 18; v. 274; p. 610.
Whittemore Brothers Corporation, Cambridge, Mass. Dressing for leather and articles made therefrom. No. 132,277; June 15; v. 275; p. 621.
Whittemore Brothers Corporation, Cambridge, Mass. Dressing to be used on leather and leather articles. No. 134,136; Aug. 10; v. 277; p. 392.
Whittier, Charles T., New York, N. Y. Corn-starch. No. 135,855; Oct. 19; v. 279; p. 533.
Whittier Citrus Association, Whittier, Calif. Fresh citrus fruits. No. 128,577; Jan. 6; v. 270; p. 186.
Whittle & Mutch, Philadelphia, Pa. Non-alcoholic noncereal maltless beverages and syrups, colors, and flavors. No. 130,247; Apr. 13; v. 273; p. 404.
Wibel, Axel, Stockholm, Sweden. Calculating-machine. No. 135,558; Oct. 12; v. 279; p. 346.
Wichita Mill & Elevator Company, Wichita Falls, Tex. Wheat-flour. Nos. 134,137–8; Aug. 10; v. 277; p. 392.
Wichita Motors Company, Wichita Falls, Tex. Tractors. No. 135,376; Sept. 28; v. 278; p. 708.
Wicks & Co., Inc., Houston, Tex. Candies. No. 136,701; Nov. 2; v. 280; p. 190.
Wickwire Spencer Steel Corporation. (See Clinton Wire Cloth Company, assignor.)
Widen Lord Tanning Co., Boston, Mass. Upper-leather for boots and shoes. No. 128,578; Jan. 6; v. 270; p. 186.
Wiechmann, Fred G., Wausau, Wis. Preparation for the treatment of certain named affections. No. 129,934; Mar. 9; v. 272; p. 370.
Wiederhold, Emil, & Bro., Columbus, Ohio. Piano and automobile polish. No. 133,842; July 20; v. 276; p. 593.
Wiener Bros, New York, N. Y. Ladies' mesh-handbags. No. 137,422; Nov. 23; v. 280; p. 799.
Wiener, Henry, New York, N. Y. Certain named articles mounted in precious metals. No. 133,872; Aug. 8; v. 277; p. 179.
Wiesen & Goldstein, New York, N. Y. Dresses and costumes. No. 137,901; Dec. 7; v. 281; p. 199.
Wiesner, L., New York, N. Y. Leather and fabric shoes. No. 132,587; June 22; v. 275; p. 825.
Wight Company, Lamoni, Iowa. Concentrated tonic for increasing the production and fertility of eggs. No. 132,864; June 29; v. 275; p. 1021.
Wight Investment Company, The, Denver, Colo. Carbureters and mixing-manifolds for internal-combustion engines. No. 130,248; Apr. 13; v. 273; p. 404.
Wikstrom Manufacturing Company, East Orange, N. J. Wax floor-dressing, automobile-body polish, &c. No. 136,703; Nov. 2; v. 280; p. 190.
Wilberite Roofing Company, Cleveland, Ohio. Prepared roofing. No. 130,445; Apr. 20; v. 273; p. 624.
Wilbur, H. O., & Sons, Inc., Philadelphia, Pa. Covering used to coat candy. No. 129,102; Jan. 20; v. 270; p. 477.
Wilbur White Chemical Company, The, Owego, N. Y. Photographic developer. No. 135,166; Sept. 21; v. 278; p. 537.
Wilcox & White Co., The, Meriden, Conn. Mechanical music-playing instruments and music-rolls therefor. No. 134,847; Sept. 14; v. 278; p. 361.
Wild, Thomas J., Chicago, Ill. Non-alcoholic concentrated malt and hop extract. No. 132,278; June 15; v. 275; p. 621.
Wilder & Company, Chicago, Ill. Sole-leather. No. 132,865; June 29; v. 275; p. 1021.
Wilder, John W., assignor to Delicine Products Company, Chicago, Ill. Lotions for rough, chapped, sun and wind burned skin, cold-creams, ointments, and dentifrices. No. 132,588; June 22; v. 275; p. 825.
Wilder-Pike Thermometer Company, Inc., The, Troy, N. Y. Thermometers. No. 137,423; Nov. 23; v. 280; p. 799.
Wildroot Co., Inc., Buffalo, N. Y. Toilet water. No. 132,866; June 29; v. 275; p. 1021.
Wildroot Co. Inc., Buffalo, N. Y. Shampoo-soap in liquid and solid form. No. 136,261; Oct. 26; v. 279; p. 726.
Wile, E. J., & Co., New York, N. Y. Misses' and children's cloaks and suits. No. 132,589; June 22; v. 275; p. 825.
Wile, Julius, Sons & Co., New York, N. Y. Foods and ingredients of foods. No. 132,590; June 22; v. 275; p. 825.
Wiley-Bickford-Sweet Co., Worcester, Mass. Leather, silk, &c., slippers. No. 130,593; Apr. 27; v. 273; p. 805.
Wilkin & Adler, New York, N. Y. Jersey knit cloth in the piece. No. 135,360; Sept. 28; v. 278; p. 706.
Wilkin & Adler, New York, N. Y. Ladies' cloaks, suits, dress and outer-skirts. No. 136,704; Nov. 2; v. 280; p. 190.
Wilkins & Adler, New York, N. Y. Jersey knit cloth in the piece. No. 135,559; Oct. 12; v. 279; p. 346.
Will Corporation, The, Rochester, N. Y. Methyl alcohol. No. 132,591; June 22; v. 275; p. 825.
Will Corporation, The, Rochester, N. Y. Cellulose compound used in preparing collodion embedding-tissues for microscopic and biological specimens. No. 134,592; June 22; v. 275; p. 825.
Will, Oscar H., & Co., Bismarck, N. D. Seeds—namely, flower and sweet-pea. No. 133,093; July 6; v. 276; p. 205.
Will, Oscar H., & Co., Bismarck, N. D. Seeds—namely, lawn and grass. No. 133,094; July 6; v. 276; p. 205.
Will, Oscar H., & Company, Bismarck, N. D. Seed-corn. No. 137,011; Nov. 9; v. 280; p. 388.
Will, Oscar H., & Co., Bismarck, N. D. Monthly periodicals. No. 138,370; Dec. 21; v. 281; p. 567.
William, Charles, Stores Inc., The, Brooklyn, N. Y. Floor-covering in the nature of linoleum. No. 135,167; Sept. 21; v. 278; p. 537.
Williams, Bettie, New York, N. Y. Scalp preparation and hair-grower. No. 129,103; Jan. 20; v. 270; p. 477.
Williams, C. J., Chicago, Ill. Hair-tonic. No. 135,561; Sept. 28; v. 278; p. 706.
Williams Chocolate Co., Scranton, Pa. Cough-drops. No. 129,104; Jan. 20; v. 270; p. 477.
Williams Chocolate Co., Scranton, Pa. Candy. No. 131,672; May 18; v. 274; p. 610.
Williams Chocolate Company, Scranton, Pa. Chocolate candy. No. 130,996; May 4; v. 274; p. 193.
Williams, Connor O., Wichita, Kans. Automobile-tires and inner tubes of rubber. No. 135,168; Sept. 21; v. 278; p. 538.
Williams, David E., Charleston, S. C. Sheet-music and music publications. No. 132,594; June 22; v. 275; p. 825.
Williams, Davis, Brooks & Hinchman Sons, Detroit, Mich. Toothbrushes. No. 133,547; July 27; v. 276; p. 773.
Williams, Davis, Brooks & Hinchman Sons, Detroit, Mich. Paper tablets. No. 137,424; Nov. 23; v. 280; p. 799.
Williams, Eynon H., New York, N. Y. Shampoo. No. 129,564; Feb. 24; v. 271; p. 682.
Williams Foundry & Machine Co., The, Akron, Ohio. Vulcanizing outfits for rubber tires. No. 136,989; Nov. 9; v. 280; p. 385.
Williams, Hebron & Herd, Mmes., Baltimore, Md. Hair-pomade. No. 128,579; Jan. 6; v. 270; p. 186.
Williams, J. B., Company, The, Glastonbury, Conn. Soap. No. 131,270; May 4; v. 274; p. 201.
Williams, Lillie H., Helena, Ark. Preparation for the hair and scalp. No. 136,705; Nov. 2; v. 280; p. 190.
Williams, Mortimer, Petersburg, Va. Candy-bars. No. 133,197; July 13; v. 276; p. 404.
Williams Patent Crusher and Pulverizer Company, New York, N. Y. Grinding, crushing, and pulverizing machines. No. 129,250; Jan. 27; v. 270; p. 617.
Williams Patent Crusher and Pulveriser Co., St. Louis, Mo. Pulleys. No. 134,202; Aug. 17; v. 277; p. 582.
Williams, R. C., & Company, New York, N. Y. Salad-dressing. No. 134,139; Aug. 10; v. 277; p. 392.
Williams, Thomas L., Chicago, Ill. Preparation for stimulating the growth of eyebrows and eyelashes. No. 129,565; Feb. 24; v. 271; p. 682.
Williams, W. Morgan, Lavonia, Ga. Non-alcoholic syrups and beverages made therefrom. No. 135,560; Oct. 12; v. 279; p. 346.
Williams, W. Reed, (1908) Limited, London, England. Articles of jewelry. No. 134,848; Sept. 14; v. 278; p. 361.
Williams, William, Saginaw, Mich. Package-candies. No. 132,595; June 22; v. 275; p. 825.
Williamson, James O., Montgomery, Ala. Laxative tablet and wafer. No. 131,884; May 25; v. 274; p. 835.
Willis, Joseph V., New York, N. Y. Ginger-beer. No. 129,247; Jan. 27; v. 270; p. 617.
Willits & Green, Los Angeles, Calif. Foods and ingredients of foods. No. 138,162; Dec. 14; v. 281; p. 402.
Wilmarth and Rice, Scranton, Pa. Wheat-flour. No. 134,140; Aug. 10; v. 277; p. 392.
Wilson, A. M., Company, Cherokee, Iowa. Children's garters. No. 135,879; Oct. 19; v. 279; p. 536.
Wilson Brothers, Chicago, Ill. Neckties. No. 129,251; Jan. 27; v. 270; p. 617.
Wilson, Clarence, Dinuba, Calif. Fresh fruits. No. 134,299; Aug. 24; v. 277; p. 779.
Wilson & Co., Inc., Chicago, Ill. Foods. No. 130,446; Apr. 20; v. 273; p. 624.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

Wilson, Edward, St. Louis, Mo. Piston-rings. No. 133,875; Aug. 3; v. 277; p. 179.
Wilson, Harold G., Titusville, Fla. Medicine used in the treatment of headache, neuralgia, rheumatism, &c. No. 134,849; Sept. 14; v. 278; p. 361.
Wilson, Henry C., New York, N. Y. Oil for retarding rust and lubricating grease for ferrous materials. No. 138,163; Dec. 14; v. 281; p. 402.
Wilson, J. C., Company, Detroit, Mich. Automobile trucks, chassis, and bodies. No. 138,408; Dec. 21; v. 281; p. 572.
Wilson, J. G., Corporation, Norfolk, Va. Louver or Venetian blinds. No. 130,007; Mar. 16; v. 272; p. 540.
Wilson, Raymond K., Gloversville, N. Y. Gloves and mittens. No. 129,252; Jan. 27; v. 270; p. 617.
Wilson Remover Company, Newark, N. J. Rust-preventive compound of a chemical nature. No. 138,371; Dec. 21; v. 281; p. 567.
Wilton Manufacturing Co., Inc., New York, N. Y. Cotton piece goods. No. 129,986; Mar. 9; v. 272; p. 370.
Wilton Manufacturing Co., Inc., New York, N. Y. Cotton piece goods. No. 130,997; May 4; v. 274; p. 193.
Wintsey, Charles E., East Orange, N. J. Filter for smoking-pipes. No. 133,876; Aug. 3; v. 277; p. 179.
Wimpfheimer, A., & Bro. Inc., New York, N. Y. Ribbons of pile fabrics. No. 129,105; Jan. 20; v. 270; p. 477.
Winchenbaugh, Lester P., Co., Boston, Mass. Cover-papers. No. 128,902; Jan. 13; v. 270; p. 345.
Winchenbaugh, Lester P., Co., Boston, Mass. Cover-paper. Nos. 129,937–8; Mar. 9; v. 272; p. 370.
Winchenbaugh, Lester P., Co., Boston, Mass. Window-display paper. No. 131,271; May 4; v. 274; p. 201.
Winchester Repeating Arms Co., New Haven, Conn. Paper shot-shells. No. 130,140; Apr. 6; v. 273; p. 182.
Winchester Repeating Arms Co., New Haven, Conn. Dry-cell batteries. No. 133,873; Aug. 3; v. 277; p. 179.
Windle, Randolph T., New York, N. Y. Hand bilge-water pumps for boats. No. 130,447; Apr. 20; v. 273; p. 625.
Windsor Print Works, North Adams, Mass., and New York, N. Y. Plain white, dyed, or printed cotton piece goods. No. 136,262; Oct. 26; v. 279; p. 726.
Windsor Undersilks, Inc., New York, N. Y. Women's silk underwear. No. 131,885; May 25; v. 274; p. 835.
Wine Brothers and Company, Detroit, Mich. Trousers. No. 137,426; Nov. 23; v. 280; p. 799.
Winfield, S. S., New York, N. Y. Hair-tonic. No. 132,590; June 22; v. 275; p. 825.
Wing, John F., Maywood, Ill. Spark-plug intensifiers. No. 134,850; Sept. 14; v. 278; p. 361.
Wingate, Ollie, Atlanta, Ga. Pile remedy. No. 132,597; June 22; v. 275; p. 825.
Wingate, Rosier B., Dallas, Tex. Non-alcoholic beverage and syrup for making same. No. 131,675; May 18; v. 274; p. 610.
Wingate's Salvo Manufacturing Co. Inc., Asheville, N. C. Ointment used in the treatment of pulmonary diseases. No. 138,524; Dec. 28; v. 281; p. 784.
Winget, Limited, Westminster, London, England. Machinery and parts of machinery for mixing and for molding concrete and such like material. No. 130,998; May 4; v. 274; p. 193.
Wink-O Products Co., The, Dunbar, W. Va. Soap packed in tin cans. No. 138,104; Dec. 14; v. 281; p. 402.
Winslow, Alfred F., New York, N. Y. Metal discount-check. No. 130,249; Apr. 13; v. 273; p. 404.
Winslow, Samuel, Skate Mfg. Co., The, Worcester, Mass. Ice-skates. No. 133,506; July 27; v. 276; p. 771.
Winsor & Newton, Ltd., London, England. Waterproof drawing-inks. No. 129,939; Mar. 9; v. 272; p. 370.
Winsor & Newton, Ltd., London, England. Drawing-paper. No. 129,940; Mar. 9; v. 272; p. 370.
Winter, M. A., Company, Washington, D. C. Medicinal tablets for laxative, &c. No. 131,886; May 25; v. 274; p. 835.
Winter, Michael, Orange, N. J. Non-alcoholic beverages. No. 130,250; Apr. 13; v. 273; p. 404.
Winther Motor Truck Company, Kenosha, Wis. Motor-trucks. No. 130,448; Apr. 20; v. 273; p. 625.
Winthrop Orchards, Inc., The, Philadelphia, Pa. Boxed apples. No. 136,990; Nov. 9; v. 280; p. 385.
Wireless Specialty Apparatus Company, New York, N. Y., and Boston, Mass. Condensers. No. 131,676; May 18; v. 274; p. 610.
Wireless Specialty Apparatus Company, New York, N. Y., and Boston, Mass. Vacuum-tube devices and parts and accessories therefor for radio communication, telegraphy, and telephony. No. 138,095; July 6; v. 276; p. 205.
Wirt, John D., Frankfort, Ind. Cereal foods. No. 134,867; Sept. 14; v. 278; p. 364.
Wirth-Lang Company Inc., Louisville, Ky. Wood, metal, and poster beds and chifforobes. No. 133,548; July 27; v. 276; p. 773.
Wirthlin-Mann Co., The, Cincinnati, Ohio. Monthly publication. No. 134,463; Aug. 31; v. 277; p. 975.
Wirthlin-Mann Co., The, Cincinnati, Ohio. Leather belting. No. 137,427; Nov. 23; v. 280; p. 799.
Wisconsin Cabinet and Panel Company, West Orange, N. J., New London, Wis., and New York, N. Y. Wooden panels. No. 136,991; Nov. 9; v. 280; p. 385.
Wisconsin Candy Co., The, Stevens Point, Wis. Line of fancy hand-dipped chocolates in boxes. No. 136,706; Nov. 2; v. 280; p. 190.
Wisconsin Chair Company, The, Port Washington, Wis. Phonographs, records, albums, reproducers, and needles. No. 136,263; Oct. 26; v. 279; p. 726.
Wisconsin-Pilot Glove Company, Milwaukee, Wis. Leather and cloth gloves and mittens. No. 133,343; July 20; v. 276; p. 593.
Wisconsin Shoe Company, Milwaukee, Wis. Athletic shoes made in the various combinations. No. 134,851; Sept. 14; v. 278; p. 361.
Wise Brothers, Inc., Baltimore, Md. Clothing. No. 133,344; July 20; v. 276; p. 593.
Wise Brothers, Inc., Baltimore, Md. Clothing. No. 136,992; Nov. 9; v. 280; p. 385.
Wise, Morris, Atlanta, Ga. Preparation for the treatment of the hair and scalp. No. 129,409; Feb. 17; v. 271; p. 509.
Wise, Shaw & Feder Company, The, Cincinnati, Ohio. Shoes. No. 134,852; Sept. 14; v. 278; p. 362.
Wisniewski, William, Flushing, N. Y. Reversible collars and cuffs. No. 135,853; Oct. 19; v. 279; p. 533.
Wiss, Albert, Peekskill, N. Y. Watches, watch-movements, watchcases, and parts thereof. No. 135,362; Sept. 28; v. 278; p. 706.
Wite-Kat Soap Company, San Francisco, Calif. Waterless soap. No. 128,580; Jan. 6; v. 270; p. 186.
Witherbee Igniter Company, Springfield, Mass. Batteries, electrical mine-lamps, and magnetos. No. 133,096; July 6; v. 276; p. 205.
Withers, W. Jerome, San Francisco, Calif. Grape-juice. No. 135,854; Oct. 19; v. 279; p. 533.
Withers, William A., Elizabethtown, Pa. Shoes for men and boys. No. 137,425; Nov. 23; v. 280; p. 799.
Witt, Florence J., Columbus, Ohio. Salve or semisolid medicine for rheumatism and sciatica. No. 129,566; Feb. 24; v. 271; p. 682.
Witt, Florence J., Columbus, Ohio. Paste for shoe-dressing. No. 134,141; Aug. 10; v. 277; p. 392.
Wittl, Frederick J., Milwaukee, Wis. Razor-strops. No. 130,999; May 4; v. 274; p. 193.
Wittmann, Joseph H., Kansas City, Mo. Tents. No. 134,464; Aug. 31; v. 277; p. 975.
Woeltje, William, Chicago, Ill. Wood and marble cement in stick form. No. 137,742; Nov. 30; v. 280; p. 1001.
Wohl, Benjamin, New York, N. Y. Clothing. No. 138,525; Dec. 28; v. 281; p. 784.
Wol-Bur Valve Company, Lincoln, Nebr. Steam-pressure-controlling valves. No. 137,428; Nov. 23; v. 280; p. 799.
Wolf & Bird, San Francisco, Calif. Foods. No. 132,867; June 29; v. 275; p. 1021.
Wolf Company, New York, N. Y. Ladies' nightgowns, petticoats, drawers, &c. No. 131,000; May 4; v. 274; p. 193.
Wolf, Leo M., Crawfordsville, Ind. Medicine for use in the treatment of certain named diseases. No. 131,677; May 18; v. 274; p. 610.
Wolferman, Fred, Co., Kansas City, Mo. Coffee. No. 135,562; Oct. 12; v. 279; p. 346.
Wolff, Aaron R., Chicago, Ill. Sweeping compound. No. 135,561; Oct. 12; v. 279; p. 346.
Wolff Brothers, Paterson, N. J. Breakfast cereal foods and buckwheat-flour. No. 131,272; May 4; v. 274; p. 201.
Wolff, Moritz M., Boston, Mass. Medicinal oil liniment useful in allaying pain. No. 132,598; June 22; v. 275; p. 825.
Wolfinger Knitting Mills, Reading, Pa. Hosiery. No. 138,372; Dec. 21; v. 281; p. 567.
Wollensak Optical Co., Rochester, N. Y. Photographic lenses. No. 131,389; May 11; v. 274; p. 402.
Wolter Bros., Peoria, Ill. Potatoes. No. 136,709; Nov. 2; v. 280; p. 190.
Wolters, Wm., Winfield, S. D. Medicinal preparation. No. 128,903; Jan. 13; v. 270; p. 345.
Wolverine Supply & Mfg. Co., Pittsburgh, Pa. Automatic sand-operated mechanical toys and toy dishes. No. 135,363; Sept. 28; v. 278; p. 706.
Wonder-Nut Food Products Company, Jefferson, Wis. Oleomargarin. Nos. 134,465–7; Aug. 31; v. 277; p. 975.
Wood, George H., Boston, Mass. Liniment used externally for rheumatism, bruises, colds, &c. No. 134,853; Sept. 14; v. 278; p. 362.
Wood, J. W., Detroit, Mich. Medicine for the treatment of tuberculosis, &c. No. 135,169; Sept. 21; v. 278; p. 538.
Wood, John, Mfg. Co., Conshohocken, Pa. Range-boilers, expansion-tanks, &c. No. 134,330; Aug. 24; v. 277; p. 784.
Wood Shovel & Tool Co., Piqua, Ohio. Shovels, spades, scoops, &c. No. 131,390; May 11; v. 274; p. 402.
Wood Turret Machine Co., Brazil, Ind. Turret-lathes and screw-machines. No. 131,391; May 11; v. 274; p. 402.
Wood, W. B., Mfg. Co., St. Louis, Mo. Non-alcoholic non-cereal maltless beverage and syrup for making same. Nos. 129,253–4; Jan. 27; v. 270; p. 617.
Wood, W. B., Mfg. Co., St. Louis, Mo. Substance consisting of gum-tragacanth, pepsin and rennin used in the manufacture of ice-cream and ices. No. 129,941; Mar. 9; v. 272; p. 370.
Wood, W. B., Mfg. Co., St. Louis, Mo. Powder for the manufacture of ice-cream, fruit sherbet, &c. No. 131,001; May 4; v. 274; No. 193.

Digitized by Google

Wood, W. B. Mfg. Co., St. Louis, Mo. Flavors for ice-cream and candy. No. 138,555; Dec. 28; v. 281; p. 787.
Woodard, William H., Wilson, N. C. Confectionery. No. 135,170; Sept. 21; v. 278; p. 538.
Woodill, Alfred L., Riverside, Calif. Fresh oranges. Nos. 134,143–4; Aug. 10; v. 277; p. 392.
Woodruff, Viola V. N., Flushing, N. Y. Edible nut-meats. No. 128,581; Jan. 6; v. 270; p. 186.
Woodruff, Will R., Stanton, Nebr. Gas-pumps employing poisonous gases for killing gophers, &c. No. 131,678; May 18; v. 274; p. 610.
Woods, Leonard, St. Louis, Mo. Article of men's furnishings in the form of aluminum-plate supporters for trousers. No. 131,273; May 4; v. 274; p. 201.
Woods, S. A., Machine Co., Boston, Mass. Woodworking-machines and parts thereof. No. 133,198; July 13; v. 276; p. 404.
Woodtite Laboratories, Modesto, Calif. Top dressing and dye combination for automobile-tops. No. 129,942; Mar. 9; v. 272; p. 370.
Woodtite Laboratories, The, Modesto, Calif. Compounded auto-wash used as a cleanser. No. 134,145; Aug. 10; v. 277; p. 392.
Woodward, John G., & Co., Council Bluffs, Iowa. Candy. No. 128,904; Jan. 13; v. 270; p. 345.
Wool Novelty Co., Inc., New York, N. Y. Hand-knitting yarn. No. 137,743; Nov. 30; v. 280; p. 1001.
Wooleather, Salem, Mass. Sandals, shoes, and slippers made of leather, fabric, &c. No. 133,373; Dec. 21; v. 281; p. 568.
Woolf, Walter A., Buffalo, N. Y. Freckle-bleach, massage and astringent creams. No. 129,567; Feb. 24; v. 271; p. 682.
Woolley, Daniel P., Great Neck and New York, N. Y. Bread. No. 134,300; Aug. 24; v. 277; p. 779.
Woolley, Daniel P., New York, N. Y. Bread. Nos. 134,468–9; Aug. 31; v. 277; p. 975.
Woolley, George W., Pasadena, Calif. Liquid fuel for internal-combustion engines. No. 135,364; Sept. 28; v. 278; p. 706.
Woolner, Henry S., Los Angeles, Calif. Hair-tonic. No. 129,568; Feb. 24; v. 271; p. 682.
Woolson Spice Co., Toledo, Ohio. Coffee. No. 131,002; May 4; v. 274; p. 193.
Woolson Spice Company, The, Toledo, Ohio. Coffee. No. 134,301; Aug. 24; v. 277; p. 779.
Woldert Peanut Products Co., Tyler, Tex. Peanut-butter. No. 134,142; Aug. 10; v. 277; p. 392.
Worcester Felt Goods Company, Worcester, Mass. Slippers. No. 135,365; Sept. 28; v. 278; p. 706.
Worcester, Walden, Inc., Worcester, Mass. Wrenches. No. 130,244; Apr. 13; v. 273; p. 404.
Worcester Pressed Steel Company, Worcester, Mass. Sheet-metal stampings and pressed-metal parts. No. 136,993; Nov. 9; v. 280; p. 385.
Worden, W. H., Company, San Francisco, Calif. Drag saws. No. 134,205; Aug. 17; v. 277; p. 582.
Workman Packing Company, San Francisco, Calif. Macaroni sauce. No. 132,071; June 8; v. 275; p. 416.
World Bottling Co. Ltd., New Orleans, La. Non-alcoholic non-cereal maltless beverages and syrups. No. 131,679; May 18; v. 274; p. 610.
World Tire Corporation, Chicago, Ill. Pneumatic tires. No. 137,429; Nov. 23; v. 280; p. 799.
Worman, Oscar E., Minneapolis, Minn. Artificial limbs. No. 133,199; July 13; v. 276; p. 404.
Wormser, Marcel, Summit, N. J. Pearls and imitation pearls. No. 131,888; May 25; v. 274; p. 835.
Worsnop, Charles H., Halifax, England. Chemical preparation used as an electrolyte in electrical accumulators. No. 133,877; Aug. 3; v. 277; p. 179.
Worsnop, Charles H., Halifax, England. Electrical accumulators. No. 133,878; Aug. 3; v. 277; p. 179.
Wortendyke Manufacturing Company, Richmond, Va. Paper bags. No. 128,582; Jan. 6; v. 270; p. 186.
Wortendyke Manufacturing Company, Richmond, Va. Paper bags. No. 131,003; May 4; v. 274; p. 193.
Wortendyke Manufacturing Company, Richmond, Va. Paper bags. No. 133,879; Aug. 3; v. 277; p. 179.
Worth-More Polish Company, The, Chicago, Ill. Liquid polish for furniture, automobiles, floors, and the like. No. 136,994; Nov. 9; v. 280; p. 385.
Worthley & Strong Fruit Co., Inc., Riverside, Calif. Oranges. No. 137,744; Nov. 30; v. 280; p. 1001.
Worumbo Manufacturing Company, Bath, Me. Woolen goods in the piece. Nos. 129,943–6; Mar. 9; v. 272; p. 370.
Worumbo Manufacturing Company, Bath, Me. Woolen goods in the piece. No. 130,595; Apr. 27; v. 273; p. 805.
Worumbo Manufacturing Company, Lisbon Falls, Me. Woolen overcoating goods in the piece. No. 132,072; June 8; v. 275; p. 417.
Worumbo Manufacturing Company, Bath, Me. Woolen piece goods. No. 133,549; July 27; v. 276; p. 773.
Worumbo Manufacturing Company, Bath, Me. Woolen goods in the piece. Nos. 135,856–7; Oct. 19; v. 279; p. 533.
Wright-Austin Company, Detroit, Mich. Steam-boiler attachments. No. 137,902; Dec. 7; v. 281; p. 199.
Wright, James R., Trenton, Mo. Additional air-preheaters for internal-combustion engines. No. 135,858; Oct. 19; v. 279; p. 533.
Wright & Lawrence, Chicago, Ill. Preparation for the treatment of certain named diseases. No. 134,854; Sept. 14; v. 278; p. 362.
Wright, Layman & Umney, Limited, London, England. Perfumed soap. No. 129,947; Mar. 9; v. 272; p. 370.
Wright Mfg. Co., Lisbon, Ohio. Hoists and trolleys. No. 128,905; Jan. 13; v. 270; p. 345.
Wrigley, E. G., & Co., Birmingham, England. Milling-cutters, reamers, &c. Nos. 133,345–6; July 20; v. 276; p. 593.
Wrigley, Wm., Jr., Company, Chicago, Ill. Chewing-gum. No. 131,004; May 4; v. 274; p. 193.
Wuellner, J. J., & Son, Alton, Ill. Construction hoisting-towers. No. 131,005; May 4; v. 274; p. 193.
Wuest, Andrew A., Cincinnati, Ohio. Hosiery for men, women, and children. No. 133,347; July 20; v. 276; p. 593.
Wülfing, Johann A., Berlin, Germany. Pharmaceutical chalk product in tablet form for internal use. No. 133,545; July 27; v. 276; p. 773.
Wunderle, Philip, Philadelphia, Pa. Candy. No. 131,006; May 4; v. 274; p. 193.
Wunsch, William, New York, N. Y. Soft soap. No. 136,264; Oct. 26; v. 279; p. 726.
Wurm, Herman C., New York, N. Y. Preparation for la grippe, colds, and muscular pains. No. 132,599; June 22; v. 275; p. 825.
Wyatt Bros., Chicago, Ill. Cotton-seed-oil stearin. No. 129,106; Jan. 20; v. 270; p. 477.
Wyckoff Drawn Steel Co., Pittsburgh, Pa. Cold-drawn steel. No. 134,206; Aug. 17; v. 277; p. 582.
Wyeth Chemical Co., Dover, Del., and New York, N. Y. Hair remedy. No. 128,583; Jan. 6; v. 270; p. 186.
Wyeth, John & Brothers, Incorporated, Philadelphia, Pa. Medicinal antiseptic spray. No. 131,889; May 25; v. 274; p. 835.
Wyman Partridge & Co., Minneapolis, Minn. Men's and boys' overcoats. No. 133,881; Aug. 3; v. 277; p. 179.
Wyman Partridge & Co., Minneapolis, Minn. Men's knit underwear and sweaters. No. 133,882; Aug. 3; v. 277; p. 179.
Wyman Partridge & Co., Minneapolis, Minn. Children's rompers and creepers. No. 136,707; Nov. 2; v. 280; p. 190.
Wyman Partridge & Co., Minneapolis, Minn. One-piece suit for men and boys—namely, overalls. No. 136,708; Nov. 2; v. 280; p. 190.
Wyman, Partridge & Co., Minneapolis, Minn. One-piece garments with hood attached for infants. No. 136,995; Nov. 9; v. 280; p. 385.
Wynne Paper Co., New York, N. Y. Writing-tablets, &c. No. 129,107; Jan. 20; v. 270; p. 477.
Wynne Paper Co., The, New York, N. Y. Writing-tablets, writing-papers, and correspondence-envelops. No. 134,146; Aug. 10; v. 277; p. 392.
Wyoming Shovel Works, Wyoming, Pa. Agricultural and earthworking implements. No. 128,584; Jan. 6; v. 270; p. 186.
X L Tamale Cafe, Stockton, Calif. Fresh tamales. No. 136,660; Nov. 2; v. 280; p. 188.
X-Zema Remedy Co., Haskell, Okla. Remedy for eczema, poison-ivy, &c. No. 138,374; Dec. 21; v. 281; p. 568.
Yablick, Max, Newark, N. J. Ammonia-absorbent. No. 129,569; Feb. 24; v. 271; p. 682.
Yager & Halstead, Inc., Cortland, N. Y. Canned vegetables and fruits. No. 136,710; Nov. 2; v. 280; p. 190.
Yale Suspender Co., The, New York, N. Y. Men's leather apparel-belts and suspenders. No. 135,563; Oct. 12; v. 279; p. 346.
Yale & Towne Mfg. Co., The, Stamford, Conn. Automatic bolt-operating machines, &c. Nos. 138,165–6; Dec. 14; v. 28; p. 402.
Yankee Battery Manufacturing Co., San Diego, Calif. Storage batteries. No. 130,449; Apr. 20; v. 273; p. 628.
Yardley & Co, Limited, London, England. Perfumes. No. 138,530; Dec. 28; v. 281; p. 784.
Yardley Chemical Corporation, The, New York, N. Y. Germicide, disinfectant, deodorant, &c. No. 138,527; Dec. 28; v. 281; p. 784.
Yardley Chemical Corporation, The, New York, N. Y. Medicinal remedy for sore throat, cuts, &c. No. 138,528; Dec. 28; v. 281; p. 784.
Yardley Chemical Corporation, The, New York, N. Y. Medicinal preparation. No. 138,529; Dec. 28; v. 281; p. 784.
Yeager, H. W., & Co., Philadelphia, Pa. Electrically-operated vacuum-creating apparatus for player-pianos. No. 135,171; Sept. 21; v. 278; p. 538.
Ynetema, Theodore J., Scranton, Pa. Scalp remedies, a liquid preparation used in treatment of the hair. No. 135,172; Sept. 21; v. 278; p. 538.
Yocum, John H., Newark, N. J. Leather-dressing. No. 132,073; June 8; v. 275; p. 417.
Yonkers Brewery, assignor to Bittersweet Products Corporation, Yonkers, N. Y. Carbonated beverage. No. 129,255; Jan. 27; v. 270; p. 617.
York Chemical Works, York, Pa. Fertilizers. No. 137,903; Dec. 7; v. 281; p. 199.
York Haven Paper Company, The, Philadelphia, Pa. Wrapping-paper. No. 131,680; May 18; v. 274; p. 610.
York Manufacturing Company, York, Pa. Refrigerating and ice making systems and parts thereof. No. 131,947; June 1; v. 274; p. 199.

Digitized by Google

Alphabetical list of registrants of trade-marks—Continued.

York Manufacturing Company, York, Pa. Refrigerating and ice-making systems and parts thereof. No. 136,711; Nov. 2; v. 280; p. 190.
York Pretzel Bakery, York, Pa. Pretzels, cakes, crackers, and biscuits. No. 131,007; May 4; v. 274; p. 193.
Yorke, Constance E., Southsea, England. Preparation for restoring hair to its natural color. No. 137,430; Nov. 23; v. 280; p. 799.
Yorkshire Steel Co. Ltd., London, England. Scissors, table-knives, and forks of base metal, razors, &c. No. 137,904; Dec. 7; v. 281; p. 199.
Yoshitake, Tsurujiro, Nishi-ku, Osaka, Japan. Dentifrice or tooth-powder. No. 129,948; Mar. 9; v. 272; p. 370.
Young, Chas. W., & Co., Philadelphia, Pa. Soap flakes. No. 135,173; Sept. 21; v. 278; p. 538.
Young, Corley & Dolan, Inc., New York, N. Y. Hacksaws. No. 129,256; Jan. 27; v. 270; p. 617.
Young & Egan, Inc., New York, N. Y. Globes, shades, and reflectors of glass. No. 129,108; Jan. 20; v. 270; p. 477.
Young, Frederick H., Toledo, Ohio. Toilet cream, face, talcum, and tooth powders. Nos. 131,681–2; May 18; v. 274; p. 610.
Young, Giles T., Philadelphia, Pa. Hair tonic and pomade, &c. No. 128,906; Jan. 13; v. 270; p. 345.
Young, Giles T., Philadelphia, Pa. Hair-straightener paste. No. 136,279; Oct. 26; v. 279; p. 726.
Young, Howard E., Baltimore, Md. Medicines for rheumatism, lumbago, sore feet, corns, &c. No. 136,712; Nov. 2; v. 280; p. 190.
Young, J. S., & Company, Hanover, Pa. Dyes and dyestuffs. No. 128,907; Jan. 13; v. 270; p. 345.
Young and Klots, New York, N. Y. Varnish, ready-mixed paints, roofing-paints, enamels, and lacquers. No. 133,883; Aug. 3; v. 277; p. 179.
Young-Mahood Company, Pittsburgh, Pa. Package-tea. No. 129,410; Feb. 17; v. 271; p. 509.
Young & Wile, Ltd., New York, N. Y. Corn and maltose syrups for flavoring foodstuffs. No. 133,200; July 13; v. 276; p. 404.
Young, Wm. H., Columbus, Ga. Ointment for external use. No. 133,546; July 27; v. 276; p. 773.
Youngsma, Theodore S., Chicago, Ill. Coated book and label paper. No. 128,908; Jan. 13; v. 270; p. 345.
Youngstown Chemical Co., The, Youngstown, Ohio. Food flavoring. No. 136,265; Oct. 26; v. 279; p. 726.
Youngstown Sheet & Tube Co., Youngstown, Ohio. Flexible metal conduits for the protection of electric wire and cables. No. 136,266; Oct. 26; v. 279; p. 726.
Youngstown Sheet & Tube Company, The, Youngstown, Ohio. Iron and steel pipe, wire, and nails. No. 134,868; Sept. 14; v. 278; p. 364.
Yucaipa Apple Growers' Association, Yucaipa, Calif. Fresh apples. No. 131,274; May 4; v. 274; p. 201.
Z. & S. Middy Co., New York, N. Y. Middy-blouses. No. 137,659; Nov. 30; v. 280; p. 999.
Zagoren, Samuel, Brooklyn, N. Y. Naval uniforms. No. 130,450; Apr. 20; v. 278; p. 625.
Zalkind, Philip, New York, N. Y. Paper boxes and cartons. No. 134,855; Sept. 14; v. 278; p. 362.
Zang, Ph., Brewing Company, The, Denver, Colo. Non-intoxicating, maltless, cereal beverage. No. 135,773; Oct. 19; v. 279; p. 531.
Zarheum Chemical Co., New York, N. Y. Ointment and preparation for rheumatism, &c., tablets, and steam-bath powder. No. 132,600; June 22; v. 275; p. 825.
Zatso Chemical Company, Ashland, Wis. Preparation for the treatment of corns. No. 138,375; Dec. 21; v. 281; p. 568.
Zatyko, Paul, Divernon, Ill. Salve for sores, burns, &c. No. 131,683; May 18; v. 274; p. 610.
Zayotti, A. Harold, Philadelphia, Pa. Worsted waste and noils. No. 136,713; Nov. 2; v. 280; p. 190.
Zeh, L., San Francisco, Calif. Preparations for coughs, colds, neuralgia, &c. No. 128,909; Jan. 13; v. 270; p. 345.
Zeida Sales Company, The, Wilmington, Del. Toilet preparations. No. 135,859; Oct. 19; v. 279; p. 533.
Zelenko & Moskowitz, New York, N. Y. Clothing. No. 128,911; Jan. 13; v. 270; p. 345.
Zellerbach Paper Company, San Francisco, Calif. Printing-paper, writing and wrapping paper, strawboards, &c. No. 132,868; June 29; v. 275; p. 1021.
Zellerbach Paper Company, San Francisco, Calif. Twine. No. 133,884; Aug. 3; v. 277; p. 179.
Zellerbach Paper Company, San Francisco, Calif. Publications. No. 137,431; Nov. 23; v. 280; p. 799.
Zeman, Otto, Chicago, Ill. Healing-ointment. No. 128,910; Jan. 13; v. 270; p. 345.
Zendejas, Panfilo, Los Angeles, Calif. Medicine for the treatment of certain named diseases. No. 135,564; Oct. 12; v. 279; p. 346.
Zenitherm Company, Newark, N. J. Materials used in construction-work to resist heat. No. 138,167; Dec. 14; v. 281; p. 402.
Zensal Company of Oklahoma City, The, Oklahoma, Okla. Laxative tablets. No. 136,714; Nov. 2; v. 180; p. 190.
Zerega's, A., Sons (Consolidated), Brooklyn, N. Y. Alimentary pastes. No. 136,715; Nov. 2; v. 280; p. 190.
Zevely, Percival B., Pittsburgh, Pa. Liquid vegetable laxative. No. 131,684; May 18; v. 274; p. 610.
Ziegler, George, Co., Milwaukee, Wis. Flavoring preparation used in making a non-alcoholic beverage. No. 138,277; Dec. 21; v. 281; p. 568.
Ziegler, George, Company, Milwaukee, Wis. Chocolate candies. No. 136,732; Nov. 2; v. 280; p. 192.
Ziegler, Guy, Lincoln, Nebr. Storage batteries. No. 137,432; Nov. 23; v. 280; p. 799.
Zieschang, Paul C., Columbus, Ohio. Medicine for the nerves and digestive system. No. 132,869; June 29; v. 275; p. 1021.
Zieseniss, Arthur W., Rolla, Mo. Polishing-pastes for leather. No. 129,949; Mar. 9; v. 272; p. 370.
Zieseniss, Arthur W., Rolla, Mo. Waterproofing-oils for leather. No. 130,141; Apr. 6; v. 273; p. 182.
Ziff, Joseph, Detroit, Mich. Suspenders and men's garters. No. 131,008; May 4; v. 274; p. 193.
Zilberstien, Benjamin, Philadelphia, Pa. Cigars, cigarettes, and smoking and chewing tobacco. No. 133,551; July 27; v. 276; p. 773.
Zimmerer, John W., Fort Thomas, Ky. Live poultry and setting-eggs. No. 131,276; May 4; v. 274; p. 201.
Zimmern, Henry, & Company, Inc., New York, N. Y. Watch and clock parts. No. 134,147; Aug. 10; v. 277; p. 392.
Zio Mfg. Company, Kansas City, Mo. Insecticides. No. 132,870; June 29; v. 275; p. 1021.
Zinn, Robert, Epsom, N. H. Silk and cotton woven edges. No. 131,275; May 4; v. 274; p. 201.
Zinsser, Wm., & Co., Inc., New York, N. Y. Bleached gum-shellac. No. 134,470; Aug. 31; v. 277; p. 975.
Zip Manufacturing Company, Denver, Colo. Grinding compound. No. 129,950; Mar. 9; v. 272; p. 370.
Zirkle, Charles T., Portland, Oreg. Malt-syrup. No. 132,601; June 22; v. 275; p. 825.
Zoes, Christ A., Chicago, Ill. Cleaner for white glacé kid-leather. No. 132,074; June 8; v. 275; p. 417.
Zofsak, John J., Greensburg, Pa. Hair-grower. No. 133,885; Aug. 3; v. 277; p. 179.
Zonta Tire & Rubber Company, Sioux City, Iowa. Fabric and cord tire-casings and inner tubes. No. 138,378, Dec. 21; v. 281; p. 568.
Zorro Tobacco Co., Inc., New York, N. Y. Smoking-tobacco. No. 133,550; July 27; v. 276; p. 773.
Zubrod, Geo. & Co., Louisville, Ky. Toilet preparations for treating the skin. No. 133,552; July 27; v. 276; p. 773.
Zutz, Henry E., St. Paul, Minn. Toilet preparation. No. 129,951; Mar. 9; v. 272; p. 370.
Zweibach, Albert, New York, N. Y. Polish for furniture, automobiles, and other varnished surfaces. No. 130,251; Apr. 13; v. 273; p. 404.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Abilene Broom Company, The, Abilene, Tex. "A. B. C." (For Brooms.) No. 21,650; Feb. 3; v. 271; p. 153.
Acosta, Tracy, Jacksonville, Fla. "Sunko." (For Sunko Laundry-Starch.) No. 22,175 Oct. 12; v. 279; p. 349.
Adams & Mitchell, Oakland, Calif. "Cream of Roses." (For Preserves.) No. 21,651; Feb. 3; v. 271; p. 153.
Albini, Bartolomeo A., Hoboken, N. J. "Ferro-China Brenni, Brenni's Bitter." (For a Tonic.) No. 22,286; Nov. 30; v. 280; p. 1005.
Allaire, Woodward & Co., Peoria, Ill. "Helox-Antiseptic Healing Powder Veterinary." (For Antiseptic Healing-Powder.) No. 21,926; Aug. 3; v. 277; p. 180.
Allen Corporation, The, New York, N. Y. "Pronto." (For Fire-Extinguishing Compound.) No. 21,983; Aug. 24; v. 277; p. 785.
Allen Corporation, The, New York, N. Y. "Pronto." (For Glass Containers Containing a Fire-Extinguishing Fluid.) No. 22,141; Sept. 21; v. 278; p. 541.
American Biscuit Company, Chicago, Ill. "White Top." (For Marshmallow Creme Preparation.) No. 21,844; Apr. 27; v. 273; p. 806.
American Chocolate Company, Philadelphia, Pa. "American." (For Chocolate.) No. 21,695; Feb. 24; v. 271; p. 683.
American-Mexican Packing Company, Wilmington, Calif. "Surety." (For Canned Sardines.) No. 22,041; Aug. 31; v. 277; p. 977.
American-Mexican Packing Company, Wilmington, Calif. "Surety." (For Canned Tuna Fish.) No. 22,287; Nov. 30; v. 280; p. 1005.
American Novelty Works, Herndon, Pa. "Star Building Blocks." (For Building-Blocks.) No. 21,964; Aug. 17; v. 277; p. 583.
American Soap Company, Oakland, Calif. "Jazz Hand Wash." (For Hand-Soap or Hand-Wash.) No. 21,984; Aug. 24; v. 277; p. 785.

Digitized by Google

Alphabetical list of registrants of labels—Continued.

Anaheim Orange & Lemon Assn., Anaheim, Calif. "Doria." (For Valencias.) No. 22,235; Nov. 23; v. 280; p. 806.

Anderson & Hartry, Minneapolis, Minn. "K. P. (Kitchen Police)." (For a Cleanser.) No. 21,696; Feb. 24; v. 271; p. 683.

Aranson, Louis V., Newark, N. J. "Ronsonora." (For Sound-Producing Devices.) No. 22,237; Nov. 23; v. 280; p. 806.

Arnold Bluing Company, Portland, Oreg. "Arnold's Strip Bluing." (For Bluing.) No. 21,617; Jan. 6; v. 270; p. 187.

Atlasette Gloves, Inc., New York, N. Y. "Atlasette, 'The Glove I Love.'" (For Gloves.) No. 22,142; Sept. 21; v. 278; p. 541.

Atmore & Son, Inc., Philadelphia, Pa. "Atmore's Make-A-Cake." (For a Preparation for Making Cake.) No. 21,876; June 29; v. 275; p. 1022.

B & G Wire Products Co., Philadelphia, Pa. "B & G Manufacturers & Distributors Wire and Sheet Products." (For Metal Wire and Sheet-Metal Products.) No. 22,042; Aug. 31; v. 277; p. 977.

Bailey, B. F., & Co., New York, N. Y. "Novelite Spreads." (For Bedspreads.) No. 21,777; Apr. 13; v. 273; p. 405.

Baker, Henry A., Puyallup, Wash. "Dewkist." (For Strawberries.) No. 21,927; Aug. 3; v. 277; p. 180.

Baker Packing Company, Chicago, Ill. "Del Monte Brand." (For Chilli-Con-Carne with Beans.) No. 22,221; Nov. 9; v. 280; p. 389.

Baker Packing Company, Chicago, Ill. "Del Monte Brand." (For Veal Loaf.) No. 22,222; Nov. 9; v. 280; p. 389.

Baker Packing Company, Chicago, Ill. "Del Monte Brand." (For Roast Beef.) No. 22,223; Nov. 9; v. 280; p. 389.

Baker Packing Company, Chicago, Ill. "Del Monte Brand." (For Spaghetti, Italian Style.) No. 22,224; Nov. 9; v. 280; p. 389.

Baker Packing Company, Chicago, Ill. "Del Monte Brand." (For Sliced Beef.) No. 22,225; Nov. 9; v. 280; p. 389.

Baker Packing Company, Chicago, Ill. "Del Monte Brand." (For Vienna Style Sausage.) No. 22,226; Nov. 9; v. 280; p. 389.

Baker Packing Company, Chicago, Ill. "Del Monte Brand." (For Potted Meat Products.) No. 22,227; Nov. 9; v. 280; p. 389.

Baker Packing Company, Chicago, Ill. "Del Monte Brand." (For Corned Beef.) No. 22,228; Nov. 9; v. 280; p. 389.

Baker, R. W., San Jose, Calif. "Panama Soap." (For Soap.) No. 21,805; Apr. 20; v. 273; p. 627.

Ballard & Ballard Co., Louisville, Ky. "Ballard Buckwheat." (For Buckwheat.) No. 21,877; June 29; v. 275; p. 1022.

Ballard & Ballard Co., Louisville, Ky. "Ballard Pancake." (For Flour.) No. 21,878; June 29; v. 275; p. 1022.

Ballard & Ballard Co., Louisville, Ky. "Ballard Biscuit Flour." (For Flour.) No. 21,879; June 29; v. 275; p. 1022.

Baltimore Butterine Co., The, Baltimore, Md. "Nut-All." (For Oleomargarin.) No. 21,906; July 27; v. 276; p. 774.

Baltimore Butterine Co., The, Baltimore, Md. "Silver Star." (For Oleomargarin.) No. 21,907; July 27; v. 276; p. 774.

Barker, Moore & Mein Med. Co., Philadelphia, Pa. "Barker's Disinfectant." (For a Disinfectant for Use on Poultry and Animals and in the Household.) No. 22,239; Nov. 23; v. 280; p. 806.

Barlow-Kimnet Co., The, New York, N. Y. "Barlow-Kimnet." (For Metal and Wood Display Wax Figures, Forms, and Store-Display Equipment.) No. 21,806; Apr. 20; v. 273; p. 627.

Barna, Peter, New York, N. Y. "Princess Mackerel." (For Canned, Cooked, and Seasoned Mackerel.) No. 21,928; Aug. 3; v. 277; p. 180.

Barnet Leathe Co., Inc., New York, N. Y. "Van Dyke Label." (For Calf-Leather.) No. 22,177; Oct. 12; v. 279; p. 349.

Basso Co., The, Chicago, Ill. "Asiago Basso." (For Cheese.) No. 22,143; Sept. 21; v. 278; p. 541.

Baumann, Martha G., Orange, N. J. "Peggy Peach Doll Outfit." (For a Material for Doll-Dresses.) No. 21,845; Apr. 27; v. 273; p. 806.

Baxter Candy Company, The, Grand Junction, Colo. "Prize Dominoes Pop Corn Confection." (For a Pop-Corn Confection.) No. 21,985; Aug. 24; v. 277; p. 785.

Bay City Milling Co., Bay City, Mich. "K. B." (For Flour.) No. 21,697; Feb. 24; v. 271; p. 683.

Bay City Milling Co., Bay City, Mich. "American Leader." (For Flour.) No. 21,853; May 11; v. 274; p. 403.

Bear Brothers Co., Chicago, Ill. "Bears Fluff Powder." (For Fluff-Powder.) No. 21,957; Aug. 10; v. 277; p. 393.

Beech-Nut Packing Company, Canajoharie, N. Y. "Pea Nut Bar." (For Candy.) No. 21,652; Feb. 3; v. 271; p. 153.

Beech-Nut Packing Company, Canajoharie, N. Y. "Handy Candy Sweet Bitches." (For Candy.) No. 21,698; Feb. 24; v. 271; p. 683.

Beech-Nut Packing Company, Canajoharie, N. Y. "Handy Candy Licorice." (For Licorice Tablets.) No. 21,807; Apr. 20; v. 273; p. 627.

Beech-Nut Packing Company, Canajoharie, N. Y. "Lime Drops." (For Candies.) No. 21,929; Aug. 3; v. 277; p. 180.

Beech-Nut Packing Company, Canajoharie, N. Y. "Lime Drops." (For Candy.) No. 21,958; Aug. 10; v. 277; p. 393.

Beech-Nut Packing Company, Canajoharie, N. Y. "Handy Candy Lemon Drops." (For Candy.) No. 21,959; Aug. 10; v. 277; p. 393.

Beech-Nut Packing Company, Canajoharie, N. Y. "Cinnamons." (For Candies.) No. 21,960; Aug. 10; v. 277; p. 393.

Beech-Nut Packing Company, Canajoharie, N. Y. "Peanut Bar." (For Candies—Namely, "Peanut Bars.") No. 21,986; Aug. 24; v. 277; p. 785.

Beech-Nut Packing Company, Canajoharie, N. Y. "Hoarhound Drop." (For Candies.) No. 22,240; Nov. 23; v. 280; p. 806.

Beech-Nut Packing Company, Canajoharie, N. Y. "Anise Drops." (For Candies.) No. 22,241; Nov. 23; v. 280; p. 806.

Beech-Nut Packing Company, Canajoharie, N. Y. "Caramels." (For Caramels.) No. 22,093; Sept. 7; v. 278; p. 162.

Beech-Nut Packing Company, Canajoharie, N. Y. "Molasses Popcorn Bars." (For Confections.) No. 22,367; Dec. 28; v. 281; p. 788.

Beeks Produce Company, San Antonio, Tex. "Bluefield." (For Butter.) No. 21,699; Feb. 24; v. 271; p. 683.

Bertin & Stimson, San Francisco, Calif. "Kicks." (For Candy.) No. 22,316; Dec. 7; v. 281; p. 203.

Bigwood, Benjamin F., Everett and Boston, Mass. "Prohibition Ginger." (For a Preparation or Compound for Cramps, Chills, &c.) No. 22,144; Sept. 21; v. 278; p. 541.

Bitrose Company, Milwaukee, Wis. "Bitrose Scotties." (For Candies.) No. 21,908; July 27; v. 276; p. 774.

Blatz, Val, Jr. Candy Co., Milwaukee, Wis. "Buttery Bitter Sweets." (For Candy.) No. 21,643; Jan. 6; v. 270; p. 187.

Blum, Morris, Brooklyn, N. Y. "Blum's De Luxe." (For Cigars.) No. 22,351; Dec. 14; v. 281; p. 409.

Boal's Rolls Corporation, New York, N. Y. "Boal's Rolls." (For Fruit Rolls, Containing a Laxative.) No. 22,178; Oct. 12; v. 279; p. 349.

Board of Education of Louisville, Kentucky, Louisville, Ky. "Cream of Manila Practice Paper, Louisville Public Schools." (For Pads of Drawing-Paper in the Public Schools.) No. 22,094; Sept. 7; v. 278; p. 162.

Board of Education of Louisville, Kentucky, Louisville, Ky. "Grey Manila Practice Paper, Louisville Public Schools." (For Pads of Drawing-Paper in the Public Schools.) No. 22,095; Sept. 7; v. 278; p. 162.

Bo-Kay Perfume Company, New York, N. Y., and Jacksonville, Fla. "Queen of Talcums." (For Talcum Powders.) No. 21,930; Aug. 3; v. 277; p. 180.

Boldemann Chocolate Co., San Francisco, Calif. "'Just' Vanilla Sweet Chocolate." (For Sweet Chocolate.) No. 21,653; Feb. 3; v. 271; p. 153.

Bosack, J. H., Mfg. Co., Wilkes-Barre, Pa. "Bosack's Pelinko Horke Vino." (For a Medicinal Tonic.) No. 22,100; Sept. 14; v. 278; p. 365.

Boston Thread Co., New York, N. Y. "Spicefield." (For Cotton Thread.) No. 21,987; Aug. 24; v. 277; p. 785.

Boston Thread Co., New York, N. Y. "Iris." (For Cotton Thread.) No. 21,988; Aug. 24; v. 277; p. 785.

Boston Thread Co., New York, N. Y. "Neutral." (For Cotton Thread.) No. 21,989; Aug. 24; v. 277; p. 785.

Boston Union Cigarmakers Co-Operative, Inc., Boston, Mass. "Alta." (For Cigars.) No. 22,352; Dec. 14; v. 281; p. 409.

Bowman, Joseph A., Columbus, Ohio. "Bowman's Nu-Lik-Brand Auto Finishes Eclipse Auto-Top Waterproofing." (For a Dressing.) No. 21,808; Apr. 20; v. 273; p. 627.

Boyle, Michael H., Detroit, Mich. "O. B. C. Compound." (For a Foot Antiseptic Compound.) No. 21,965; Aug. 17; v. 277; p. 583.

Brachvogel, R. A., Chicago, Ill. "Wild Hy-Ball." (For Non-Intoxicating Beverages.) No. 21,990; Aug. 24; v. 277; p. 785.

Bradford, Albert S., Placentia, Calif. "Tesoro Rancho Red Label." (For Citrus Fruits.) No. 21,966; Aug. 17; v. 277; p. 583.

Bradford, Albert S., Placentia, Calif. "Tesoro Rancho Fancy." (For Citrus Fruits.) No. 21,967; Aug. 17; v. 277; p. 583.

Brillo Manufacturing Company, New York, N. Y. "Brillo." (For Aluminum-Cleanser.) No. 22,242; Nov. 23; v. 280; p. 806.

Bromm, L., Baking Co., The, Richmond, Va. "Old Virginia." (For Fruit Cake.) No. 22,353; Dec. 14; v. 281; p. 409.

Brookins, Mrs. May Louise, Okmulgee, Okla. "Lou-Au-Gene Hair Grower." (For a Hair-Grower.) No. 21,809; Apr. 20; v. 273; p. 627.

Brookins, Mrs. May Louise, Okmulgee, Okla. "Lou-Au-Gene Pressing Oil." (For a Hair-Dressing.) No. 21,810; Apr. 20; v. 273; p. 627.

Digitized by Google

Alphabetical list of registrants of labels—Continued.

Brookins, Mrs. May Louise, Okmulgee, Okla. "Lou-Au-Gene Skin Bleach." (For a Cream for Bleaching the Skin.) No. 21,811; Apr. 20; v. 273; p. 627.

Brown, Alfred J., Seed Company, Grand Rapids, Mich. "Sweet Corn." (For Seed-Corn.) No. 21,931; Aug. 3; v. 277; p. 180.

Brown, Alfred J., Seed Company, Grand Rapids, Mich. "Radish." (For Radish-Seeds.) No. 21,961; Aug. 10; v. 277; p. 393.

Brown, Anthony, Philadelphia, Pa. "Brown's Indian Root Hair Tonic." (For a Liquid Hair-Tonic.) No. 22,043; Aug. 31; v. 277; p. 977.

Brown, Katy Isabel, Des Moines, Iowa. "Mother Brown's Cough Syrup. (For Cough-Syrup.) No. 22,243; Nov. 23; v. 280; p. 806.

Brown & Swanton, San Francisco, Calif. "Eureka Boiled Oil." (For a substitute for Linseed-Oil.) No. 21,701; Feb. 24; v. 271; p. 683.

Bruehn, Louis, Chicago, Ill. "Bruehn's Rose E Ola." (For a Laxative.) No. 21,619; Jan. 6; v. 270; p. 187.

Bucher, Leon S., Cigar Co., Inc., Joplin, Mo. "Flor De Leon." (For Cigars.) No. 21,700; Feb. 24; v. 271; p. 683.

Buck, A. A., Santa Maria, Calif. "Buck's Vulcantite Patch." (For Tire-Patches.) No. 21,618; Jan. 6; v. 270; p. 187.

Buhr, Pfaff & Co., Cincinnati, Ohio. "Reel." (For Chocolate Cream Drops.) No. 22,044; Aug. 31; v. 277; p. 977.

Burger, Iwan, Inc., New York, N. Y. "Fish-in-the-Can." (For Canned Food Products.) No. 22,244; Nov. 23; v. 280; p. 806.

Burgess Battery Company, Madison, Wis. Burgess Unipiex Battery. (For Electric Batteries.) No. 21,932; Aug. 3; v. 277; p. 180.

Burgess Battery Company, Madison, Wis. "Burgess Uni-Cels." (For Electric Batteries.) No. 22,045; Aug. 31; v. 277; p. 977.

Burton, Theo., & Son, Millsboro, Del. "Indian River Brand Tomatoes." (For Canned Tomatoes.) No. 21,762; Mar. 23; v. 272; p. 782.

Bushong, H. L., Washington, D. C. "The Famous Shenandoah Valley Brand." (For Pork Sausage.) No. 21,874; June 22; v. 275; p. 826.

Cairo Food Products Company, Cairo, Ill. "Goodest-Ever." (For Soda-Water.) No. 21,933; Aug. 3; v. 277; p. 180.

Cairo Food Products Company, Cairo, Ill. "Goodest-Ever." (For Ice-Cream.) No. 21,934; Aug. 3; v. 277; p. 180.

California Central Creameries, San Francisco, Calif. "Golden State." (For Powdered Skim-Milk.) No. 22,101; Sept. 14; v. 278; p. 365.

California Chocolate Shops Co., Los Angeles, Calif. "Quinby's." (For Chocolates.) No. 21,620; Jan. 6; v. 270; p. 187.

California Growers Association, Inc., Los Angeles, Calif. "Growers Best." (For Canned Peaches.) No. 22,854; Dec. 14; v. 281; p. 409.

California Products and Importing Co. Inc., Milwaukee, Wis. "Gold Crest Pure Apple Cider." (For Apple-Juice or Apple-Cider.) No. 22,179; Oct. 12; v. 279; p. 349.

California Soap Company, Inc., Los Angeles, Calif. "Chump." (For Soaps.) No. 21,909; July 27; v. 276; p. 774.

California Soda Products Company, San Francisco, Calif. "Snow Crystals." (For Instantaneous Water-Softener.) No. 22,146; Sept. 21; v. 278; p. 541.

Campfire Company, The, Milwaukee, Wis. "Campfire." (For Marshmallows.) No. 22,049; Aug. 31; v. 277; p. 977.

Campbell, V. V., Oklahoma, Okla. "Campbell's Purity." (For Dessert Preparations—Namely, Pie-Filling.) No. 22,317; Dec. 7; v. 281; p. 203.

Candy Craft Shops, Inc., The, Chicago, Ill. "Candy Craft Candies For Kiddies." (For Candies.) No. 22,046; Aug. 31; v. 277; p. 977.

Candy Craft Shops, Inc., The, Chicago, Ill. "Candy Craft Pocket Candies." (For Fruit Tablets.) No. 22,047; Aug. 31; v. 277; p. 977.

Candy Craft Shops, Inc., The, Chicago, Ill. "Taffy On The Broomstick." (For Taffy.) No. 22,048; Aug. 31; v. 277; p. 977.

Cannar, Charles W., Chicago, Ill. "Beaux Arts Candy." (For Candies.) No. 21,910; July 27; v. 276; p. 774.

Caramella, Santo, Ridgewood, N. J. "S C Ready Sauce." (For a Gravy.) No. 21,963; Aug. 10; v. 277; p. 393.

Cargill, J. Ralston, Americus, Ga. "Cream of Cane." (For Syrup.) No. 21,812; Apr. 20; v. 273; p. 627.

Cargill, J. Ralston, Americus, Ga. "Rainbow Georgia Cane." (For Syrup.) No. 21,880; June 29; v. 275; p. 1022.

Caruso, John, Chicago, Ill. "Caruso Cough Drops." (For Cough-Drops.) No. 21,702; Feb. 24; v. 271; p. 683.

Caswell, George W., Co., San Francisco, Calif. "The Caswell Blend." (For Coffee.) No. 21,991; Aug. 24; v. 277; p. 785.

Catlin, Sadie B., Pittsburgh, Pa. "Palm Beach Hair Grower." (For a Preparation for the Hair.) No. 21,763; Mar. 23; v. 272; p. 732.

Ceitlin, Samuel, Philadelphia, Pa. "Odoriac Foot-Ease Powder Co." (For a Foot-Powder.) No. 21,813; Apr. 20; v. 273; p. 627.

Chappell, Alexander W., Red Bank, N. J. "Suculine." (For General Tonic for Poultry.) No. 22,147; Sept. 21; v. 278; p. 541.

Charms Company, Newark, N. J. "Lime Charms." (For Fruit Tablets—Namely, Charms, Lime Flavor.) No. 21,814; Apr. 20; v. 273; p. 627.

Charms Company, Newark, N. J. "Wild Cherry Charms." (For Fruit Tablets—Namely, Charms, Wild-Cherry Flavor.) No. 21,815; Apr. 20; v. 273; p. 627.

Charms Company, Newark, N. J. "Lemon Charms." (For Fruit Tablets—Namely, Charms, Lemon Flavor.) No. 21,816; Apr. 20; v. 273; p. 627.

Charms Company, Newark, N. J. "Grape Charms." (For Fruit Tablets—Namely Charms, Grape Flavor.) No. 21,817; Apr. 20; v. 273; p. 627.

Charms Company, Newark, N. J. "Clove Charms." (For Fruit Tablets—Namely, Charms, Clove Flavor.) No. 21,818; Apr. 20; v. 273; p. 627.

Charms Company, Newark, N. J. "Peach Charms." (For Fruit Tablets—Namely Charms, Peach Flavor.) No. 21,819; Apr. 20; v. 273; p. 627.

Charms Company, Newark, N. J. "Orange Charms." (For Fruit Tablets—Namely, Charms, Orange Flavor.) No. 21,820; Apr. 20; v. 273; p. 627.

Charms Company, Newark, N. J. "Horehound Charms." (For Fruit Tablets—Namely, Charms, Hourhound Flavor.) No. 21,846; Apr. 27; v. 273; p. 806.

Charms Company, Newark, N. J. "Assorted Charms." (For Fruit Tablets—Namely, Charms, Assorted Flavors.) No. 21,847; Apr. 27; v. 273; p. 806.

Charms Company, Newark, N. J. "Raspberry Charms." (For Fruit Tablets—Namely, Charms, Raspberry Flavor.) No. 21,848; Apr. 27; v. 273; p. 806.

Charms Company, Newark, N. J. "Butter Charms." (For Fruit Tablets—Namely, Charms, Butter Flavor.) No. 21,849; Apr. 27; v. 273; p. 806.

Chateau Bottling Company, New York, N. Y. "Chateau." (For Soft Drinks.) No. 21,703; Feb. 24; v. 271; p. 683.

Chatillon, John, & Sons, New York, N. Y. "Nursery Scale." (For Nursery-Scales and Boxes or Packages Containing Them.) No. 22,228; Nov. 30; v. 280; p. 1005.

Cherry Tone Medicine Co., Inc., The, Charlotte, N. C. "Cherry Tonic." (For a System-Tonic.) No. 21,993; Aug. 24; v. 277; p. 785.

Chicago Paper Company, Chicago, Ill. "Unity Bond." (For Letter-Head Paper.) No. 21,706; Feb. 24; v. 271; p. 683.

China, Japan & South America Trading Co., Ltd., San Francisco, Calif. "C & J Brand." (For Canned Peaches.) No. 21,704; Feb. 24; v. 271; p. 683.

Christopher, L. J., Company, Los Angeles, Calif. "California Chocolates." (For California Chocolates.) No. 22,248; Nov. 23; v. 280; p. 806.

Clark-Servey Candy Company, Kansas City, Mo. "Garden O' Love." (For Candy.) No. 21,705; Feb. 24; v. 271; p. 683.

Clarke, J. Q., Tank Co., Crawfordsville, Ind. "Worlds Best Cafeteria Feeder." (For Live-Stock Feeders and Drinking-Fountains.) No. 21,968; Aug. 17; v. 277; p. 583.

Clearwater, Henry P., Hallowell, Me. "Systoxem." (For Pharmaceutical Preparations in the Form of Tablets.) No. 22,245; Nov. 23; v. 280; p. 806.

Clearwater, Henry P., Hollowell, Me. "Vitola." (For Pharmaceutical Preparations in the Form of Tablets.) No. 22,246; Nov. 23; v. 280; p. 806.

Clem Lumber Co., Dallas, Tex. "Clem's Pure Paints." (For Ready-Mixed Paints.) No. 21,992; Aug. 24; v. 277; p. 785.

Cloud-Thomas Co., Yakima, Wash. "Yakival." (For Apples.) No. 21,821; Apr. 20; v. 273; p. 627.

Coe, C. E., Coffee Co., Memphis, Tenn. "Royal Blue." (For Ointment.) No. 21,707; Feb. 24; v. 271; p. 683.

Coffee Products Company, Cleveland, Ohio. "Romar." (For Coffee.) No. 21,994; Aug. 24; v. 277; p. 785.

Coleman, Allan J., Chicago, Ill. "Coleman's Closet Cleanser." (For Chemical Compound for Cleaning Closets.) No. 22,318; Dec. 7; v. 281; p. 203.

Coleman, Allan J., Chicago, Ill. "Coleman's Chemical Compound." (For Chemical-Compound Pipe-Opener.) No. 22,319; Dec. 7; v. 281; p. 203.

Colker, Abraham, Newport, Ky. Milo Fruit Chewing Gum." (For Chewing-Gum.) No. 21,935; Aug. 3; v. 277; p. 180.

Colonial Can Company, Boston, Mass. "Adriatic Brand Oil." (For Metal Cans Containing Oil.) No. 22,247; Nov. 23; v. 280; p. 806.

Commercial Tea & Coffee Co., The, Boston, Mass. "Anatolikos Astir." (For Coffee.) No. 21,854; May 11; v. 274; p. 403.

Conboy, Mark E., Walla Walla, Wash. "Lif-Lik Embalming Fluid." (For Embalming Fluid.) No. 22,289; Nov. 30; v. 280; p. 1005.

Connor, C. A., Ice Cream Company, Owosso, Mich. "Cherry-Tang." (For Cherry-Syrup.) No. 21,766; Apr. 6; v. 273; p. 183.

Digitized by Google

Connor, C. A., Ice Cream Company, Owosso, Mich. "Grape-Tang." (For Grape-Syrup.) No. 21,767; Apr. 6; v. 273; p. 188.
Connor, C. A., Ice Cream Company, Owosso, Mich. "Orange-Tang." (For Orange-Syrup.) No. 21,768; Apr. 6; v. 273; p. 188.
Connor & Co., Portland, Oreg. "Crimson Rambler Marshmallow." (For Syrup.) No. 21,708; Feb. 24; v. 271; p. 683.
Connor, Thomas E., Lynn, Mass. "Cotec." (For Pile-Ointment.) No. 21,911; July 27; v. 276; p. 774.
Consolidated American Fastener Co., Inc., New York, N. Y. "So-E-Z". (For Snap-Fasteners.) No. 22,229; Nov. 9; v. 280; p. 389.
Consolidated American Fastener Co's. Inc., New York, N. Y. "Singer Special." (For Snap-Fasteners.) No. 22,231; Nov. 16; v. 280; p. 587.
Consolidated American Fastener Co's. Inc., New York, N. Y. "So-E-Z." (For Dress-Fasteners.) No. 22,232; Nov. 16; v. 280; p. 587.
Constantine Tobacco Corporation, New York, N. Y. "Constantine Blend." (For Cigarettes.) No. 21,654; Feb. 3; v. 271; p. 153.
Constantine Tobacco Corporation, New York, N. Y. "Riverside Virginia." (For Cigarettes.) No. 22,051; Aug. 31; v. 277; p. 977.
Constantine Tobacco Corporation, New York, N. Y. "Marathon." (For Cigarettes.) No. 22,052; Aug. 31; v. 277; p. 977.
Continental Paper Bag Co., New York, N. Y. "Continental Peanut Bag." (For Paper Bags.) No. 21,646; Jan. 27; v. 270; p. 618.
Co-Operative Food Products Association, Seattle, Wash. "Co-Operative Evaporated Milk." (For Evaporated Milk.) No. 21,881; June 29; v. 275; p. 1022.
Cormond, Francois, San Francisco, Calif. "Cormond's Water." (For a Bleaching Fluid.) No. 22,320; Dec. 7; v. 281; p. 203.
Corona Typewriter Company, Inc., Groton, N. Y. "The Personal Writing Machine." (For Typewriting-Machines.) No. 22,102; Sept. 14; v. 278; p. 365.
Cosmic Products Corporation, New York, N. Y. "Cosmic". (For Cooked Vegetables—Namely, Vegetarian Beans.) No. 22,053; Aug. 31; v. 277; p. 977.
Courumalis & Co., New York, N. Y. "La Bella Fiume." (For Olive-Oil.) No. 21,655; Feb. 3; v. 271; p. 153.
Cowan, Earl, Co., Inc., Los Angeles, Calif. "Cowan's Preferred Coffee." (For Coffee.) No. 21,778; Apr. 13; v. 273; p. 405.
Crenshaw Bros. Produce Co. Inc., Tampa, Fla. "Crenshaw's Superior." (For Butter.) No. 21,882; June 29; v. 275; p. 1022.
Croker Packing Co., San Francisco, Calif. "Croker's." (For Loganberry Jam.) No. 22,249; Nov. 23; v. 280; p. 806.
Crooke, John J., Company, The, New York, N. Y., and Chicago, Ill. "Indian Ink." (For Ink.) No. 22,103: Sept. 14; v. 278; p. 365.
Crowell, Albert B., Minneapolis, Minn. "Bromo Aspirin." (For Bromo-Aspirin Compound.) No. 22,250; Nov. 23; v. 280; p. 806.
Daigger, A., & Co., Chicago, Ill. "Washburns." (For a Preparation of Powder or Liquid Used in Ice-Cream.) No. 22,290; Nov. 30; v. 280; p. 1005.
Danio, Joseph E., Oswego, N. Y. "Welsh Rarebit Marmalade." (For Marmalade for Making Welsh Rarebit, Golden Buck, Yorkshire, Slipon, &c.) No. 22,251; Nov. 23; v. 280; p. 806.
Dawson, Lavlette Estelle, Fort Worth, Tex. "Madam Lavlette Liquid Lace Paints for Lace Only." (For Paints for Lace.) No. 22,321; Dec. 7; v. 281; p. 203.
Decatur Brewing Co., Decatur, Ill. "Sangamo." (For Malt Extract.) No. 22,252; Nov. 23; v. 280; p. 806.
Dechant, William H., Toledo, Ohio. "A Ruler." (For Insect-Destroyer.) No. 22,054; Aug. 31; v. 277; p. 977.
De Haven Ice Cream Company. (See Menasha Printing and Carton Company, assignor.)
Denison, Alfred, & Son, Mohawk, N. Y. "Denison's Original Famous Cancer Ointment." (For an Ointment for Cancer.) No. 21,904; July 20; v. 276; p. 594.
Dexter, Eugene A., Springfield, Mass. "Dexter's Sponge Cake." (For Sponge-Cake.) No. 21,656; Feb. 3; v. 271; p. 153.
Dexter, Eugene A., Springfield, Mass. "Lady Baltimore Cake." (For Cake.) No. 21,657; Feb. 3; v. 271; p. 153.
Dinsmore, Austin C., Boston, Mass. "Sal Aid." (For Capsules for a Sour Stomach.) No. 22,180; Oct. 12; v. 279; p. 349.
Dinsmore, Robert M., Little Falls, N. J. "Dinsmore's Ironing Tablets." (For Ironing-Tablets.) No. 21,709; Feb. 24; v. 271; p. 683.
Donoho, Robert D., Los Angeles, Calif. "Florange." (For Orange-Flower Syrup.) No. 22,291; Nov. 30; v. 280; p. 1005.
Drackett, P. W., and Sons Company, The, Cincinnati, Ohio. "Kee-Ko." (For a Washing Preparation.) No. 21,936; Aug. 3; v. 277; p. 180.
Drew, Arthur E., Lynn, Mass. "Drews." (For Storage Batteries.) No. 21,621; Jan. 6; v. 270; p. 187.
Dwinell-Wright Company, Boston, Mass. "Coin." (For Coffee.) No. 21,658; Feb. 3; v. 271; p. 153.
Dwinell-Wright Company, Boston, Mass. "Medal." (For Coffee.) No. 21,659; Feb. 3; v. 271; p. 153.
Dwinell-Wright Company, Boston, Mass. "Absolutely." (For Coffee.) No. 21,660; Feb. 3; v. 271; p. 153.
Dwinell-Wright Company, Boston, Mass. "Falls." (For Coffee.) No. 21,779; Apr. 13; v. 273; p. 405.
Dwinell-Wright Company, Boston, Mass. "Star & Crescent." (For Coffee.) No. 21,780; Apr. 13; v. 273; p. 405.
Dwinell-Wright Company, Boston, Mass. "School House." (For Coffee.) No. 21,781; Apr. 13; v. 273; p. 405.
Dwinell-Wright Company, Boston, Mass. "Cup & Saucer." (For Coffee.) No. 21,912; July 27; v. 276; p. 774.
Eaton, A. M., Paper Co., The, Boston, Mass. "Prize Medal." (For Toilet-Paper.) No. 22,238; Nov. 23; v. 280; p. 806.
Elasticap Company, The, Hoboken, N. Y. "Elasticap." (For Splice Insulators for Electric Conductors.) No. 21,995; Aug. 24; v. 277; p. 785.
Embee Distributing Company, New York, N. Y. "Bringing Up Father Game." (For a Game-Board.) No. 22,055; Aug. 31; v. 277; p. 977.
Embee Distributing Company, New York, N. Y. "Bringing Up Father Candy." (For Candy.) No. 22,181; Oct. 12; v. 279; p. 349.
Emerick, Martin L., M. D., Lancaster, Pa. "Dr. Emerick's Peacherb Tablets, Fruit Herb and Vegetable Extracts and Dr. Emerick's Famous Laxative Base." (For Constipation, Biliousness, Dyspepsia, and Autotoxemia.) No. 22,104; Sept. 14; v. 278; p. 365.
Emerick, Martin L., M. D., Lancaster, Pa. "Dr. Emerick's Peacherb Laxative Tablets." (For a Medicine for Constipation.) No. 22,105; Sept. 14; v. 278; p. 365.
Emmerling Products Company, Johnstown, Pa. "Red Goose." (For a Beverage.) No. 21,622; Jan. 6; v. 270; p. 187.
Ettlinger Bros., Joliet, Ill. "Missoura." (For a Non-Intoxicating Beverage.) No. 22,356; Dec. 14; v. 281; p. 409.
Evans, H., Waco, Tex. "A Little Goes a Long Way." (For Preparation for Treatment of the Hair.) No. 21,996; Aug. 24; v. 277; p. 785.
Ex-Zact Food Products Co., Milwaukee, Wis. "The Drink that Kept Milwaukee Famous." (For Fruit Nectar.) No. 21,782; Apr. 13; v. 273; p. 405.
F & F Manufacturing Co., Boston, Mass. "Rayn-Sno." (For a Chemically-Treated Fabric for Cleaning Windshields.) No. 22,056; Aug. 31; v. 277; p. 977.
Fagan, Hosea B., Burlington, Iowa. "Crescent." (For Malt Products.) No. 21,969; Aug. 17; v. 277; p. 583.
Faria, Costa & Company, Inc., New York, N. Y. "Mirabella Coffee." (For Coffee.) No. 22,253; Nov. 23; v. 280; p. 806.
Faria, Costa & Company, Incorporated, New York, N. Y. "Café Estrela-do-Brazil." (For Cartons Containing Coffee.) No. 22,182; Oct. 12; v. 279; p. 349.
Faultless Rubber Company, The, Ashland, Ohio. "Faultless Balloons." (For Toy Rubber Balloons.) Nos. 21,883–4; June 29; v. 275; p. 1022.
Federal Snap Fastener Corporation, New York, N. Y. "Harmony Forget-Me-Not Snaps." (For Snap-Fasteners.) No. 22,148; Sept. 21; v. 278; p. 541.
Federal Snap Fastener Corporation, New York, N. Y. "Trusty Snap Fasteners." (For Snap-Fasteners.) No. 22,254; Nov. 23; v. 280; p. 806.
Fine & Levy, New York, N. Y. "All-Size-Cap." (For Cloth Caps.) No. 21,997; Aug. 24; v. 277; p. 785.
Finkelman, George A., Revere, Mass. "George's Cre-Me-Est Complexion Cream." (For a Container for Medicated Cold-Cream.) No. 22,106; Sept. 14; v. 278; p. 365.
Fisher, Robert J., Athens, Tenn. "Takoma Pear. You'll Find They Wear." (For Misses' Hosiery.) No. 21,710; Feb. 24; v. 271; p. 683.
Fisher, William J., & Co., Boston, Mass. "Fisher's W J F." (For Cigars.) No. 21,822; Apr. 20; v. 273; p. 627.
Fisk Patch Company, Chicago, Ill. "Fisk Patch." (For Patches for Inner Tubes.) No. 21,711; Feb. 24; v. 271; p. 683.
Fleiss, Otto, New York, N. Y. "Yankee Patty, a Pure Meat Product." (For Meat Patties in Casings.) No. 22,292; Nov. 30; v. 280; p. 1005.
Flora Company, Inc., Seattle, Wash. "Lola's Dream." (For Beverages.) No. 22,183; Oct. 12; v. 279; p. 349.
Flossmint Company, The, Spokane, Wash. "Flossies." (For Candy Lozenges.) No. 21,913; July 27; v. 276; p. 774.
Flossmint Company, The, Spokane, Wash. "Flossies." (For Candy Lozenges.) No. 22,057; Aug. 31; v. 277; p. 977.
Fox Candy Company, Oakland, Calif. "Lil Joe." (For Candies.) No. 21,938; Aug. 3; v. 277; p. 180.
Fox, Frank M., & Co., Saegerstown, Pa. "Ginger Ale." (For Ginger-Ale.) No. 21,998; Aug. 24; v. 277; p. 785.
Fox, Frank M., & Co., Saegerstown, Pa. "Fox Trot Carbonated Laxative." (For Carbonated Laxative.) No. 21,999; Aug. 24; v. 277; p. 785.
Fox, Walter M., Napoleon, Ohio. "Tandem Team." (For Cigars.) No. 22,058; Aug. 31; v. 277; p. 977.

Digitized by Google

Alphabetical list of registrants of labels—Continued.

Frank & Company, Milwaukee, Wis. "Pimento-Luncheon." (For a Sausage Product—Namely Pimento-Luncheon.) No. 21,760; Mar. 9; v. 272; p. 372.
Frank & Company, Milwaukee, Wis. "Frank's." (For Frankforts—Namely, Sausages.) No. 21,905; July 20; v. 276; p. 594.
Franklin Baker Company, The, Philadelphia, Pa. "Baker's Coconut." (For Cocoanut.) No. 21,661; Feb. 3; v. 271; p. 153.
Franklin Baker Company, The, Philadelphia, Pa. "Baker's Toasted Coco-Nutlets." (For Packaged Cocoanut.) No. 21,885; June 29; v. 275; p. 1022.
Free Brothers Company, Pittsburgh, Pa. "Liberty Brand." (For Honey-Dew Melons.) No. 22,255; Nov. 23; v. 280; p. 806.
Free Brothers Company, Pittsburgh, Pa. "Rockbell Brand." (For Vegetables.) No. 22,368; Dec. 28; v. 281; p. 788.
Freedman, Louis J., Baltimore, Md. "Victory Middy Blouses." (For Girls' Middy-Blouses.) No. 22,293; Nov. 30; v. 280; p. 1005.
Freedman, Louis J., Baltimore, Md. "Victory Middy Dresses." (For Girls' Middy-Dresses.) No. 22,294; Nov. 30; v. 280; p. 1005.
French-Dickens Co., The, Vidalia, Ga. "Noxem." (For an Insect-Spray.) No. 21,662; Feb. 3; v. 271; p. 153.
Fribley, James H., Bourbon, Ind. "The Follow Up System." (For Medicinal Capsules.) No. 21,712; Feb. 24; v. 271; p. 683.
Frick, Phillip S., Oswego, Kans. "Nux-Iron-Pep." (For a Medicine.) No. 21,663; Feb. 3; v. 271; p. 153.
Frisch, Emile, Chicago, Ill. "Tip-Top." (For Bread.) No. 21,870; May 25; v. 275; p. 887.
G. T. Novelty Company Inc., New York, N. Y. "It Hits the Target." (For Toy Guns.) No. 21,738; Feb. 24; v. 271; p. 684.
Garden City Oil Co., Chicago, Ill. "Garden City Moto Oils." (For Lubricating Oils.) No. 22,000; Aug. 24; v. 277; p. 785.
Garman, Charles S., Denver, Pa. "Hector." (For Cigars.) No. 21,718; Feb. 24; v. 271; p. 683.
Gary, Theo. H., Co., New York, N. Y. "The Finishing Touch." (For Unicum Hair-Nets.) No. 21,823; Apr. 20; v. 273; p. 627.
Gehl, John P., South Germantown, Wis. "Meje, a Compound of fresh skimmed Milk and Cocoanut Oil." (For a Compound of Milk and Vegetable Oil.) No. 21,970; Aug. 17; v. 277; p. 583.
Gelles & Weissman, New York, N. Y. "Good Will Cravats." (For Cravats.) No. 22,001; Aug. 24; v. 277; p. 785.
General Asbestos & Rubber Company, Charleston, S. C. "Garco Gaskette Roll." (For Asbestos Sheet-Packing.) No. 22,059; Aug. 31; v. 277; p. 977.
General Fruit & Syrup Co., Baltimore, Md. "GenCo Cola." (For a Non-Alcoholic Beverage.) No. 21,875; June 22; v. 275; p. 826.
Gibbs, John, Terre Haute, Ind. "Gibbs' Mantone." (For a Medicine.) No. 21,714; Feb. 24; v. 271; p. 683.
Giller, W. B., Jacksonville, Fla. "Export Beverage—Extra Fine." (For a Certain Beverage.) No. 21,868; May 11; v. 274; p. 403.
Glass, Fredrick, Detroit, Mich. "Ethel-Olds Antiseptics." (For an Antiseptic.) No. 22,060; Aug. 31; v. 277; p. 977.
Glidden Company, The, Cleveland, Ohio. "Everywhere On Everything." (For Paints, Varnishes, Colors, and Insecticides.) No. 21,855; May 11; v. 274; p. 403.
Goldberg, David N., Chicago, Ill. "Grapette." (For Beverage.) No. 22,149; Sept. 21; v. 278; p. 541.
Goodale Ice Cream Company. (See Menasha Printing and Carton Company, assignor.)
Gottlieb-Baurnschmidt Straus Brewing Company, Baltimore, Md. "Red Seal." (For a Beverage.) No. 22,256; Nov. 23; v. 280; p. 806.
Gottlieb Baurnschmidt Straus Brewing Company, The, Baltimore, Md. "Arrow." (For a Beverage.) No. 22,295; Nov. 30; p. 280; p. 1005.
Gottlieb Baurnschmidt Straus Brewing Company, The, Baltimore, Md. "Red Seal." (For a Beverage.) No. 22,296; Nov. 30; v. 280; p. 1005.
Gottmann, Theodore, & Sons, Chicago, Ill. "Snowdrop." (For Marshmallows.) No. 22,369; Dec. 28; v. 281; p. 788.
Graef & Russell, New York, N. Y. "The Fly Catcher U-Hang-Up." (For Fly Catchers of Paper-Ribbon type.) No. 21,783; Apr. 13; v. 273; p. 405.
Graham, Percy, Chicago, Ill. "Graham Beauty Secret." (For a Skin-Cleanser.) No. 21,715; Feb. 24; v. 271; p. 683.
Grain Soaps Corporation, Dover, Del. "Grainо." (For Soaps.) No. 22,002; Aug. 24; v. 277; p. 785.
Graphic Label Works, Chicago, Ill. "Lauritsen's Home Made Butter Scotch." (For Butter-Scotch.) No. 22,003; Aug. 24; v. 277; p. 785.
Graves, Clarence D., Springfield, Ill. "Liksom Delicious Bread." (For Bread.) No. 21,824; Apr. 20; v. 273; p. 627.
Gray, Judah P., Nampa and Emmett, Idaho. "Idaho Apples." (For Fresh Apples." No. 21,914; July 27; v. 276; p. 774.
Greenmount Cigar Company, The, Brooklyn, N. Y. "Garcia Silveria." (For Cigars.) No. 22,107; Sept. 14; v. 278; p. 365.
Grender, Albert, Kansas City, Mo. "Liberty Cleansing Soap." (For Soap.) No. 21,716; Feb. 24; v. 271; p. 683.
Grennan Cake Corporation, Chicago, Ill. "Every Bite a Delight." (For Fried Cakes and Cookies.) No. 22,004; Aug. 24; v. 277; p. 785.
Gugino, Carmelo, Buffalo, N. Y. "Aquila Brand Macaroni." (For Macaroni.) No. 21,664; Feb. 3; v. 271; p. 153.
Gust Chilliras & Co., Canton, Ohio. "Liberty Coffee." (For Coffee.) No. 22,050; Aug. 31; v. 277; p. 977.
Haeuser, A. B., Co., New York, N. Y. "Imperial Varnishes." (For Varnishes.) No. 21,717; Feb. 24; v. 271; p. 683.
Hall, Peter, Pasadena, Calif. "Gyft Chocolate from California." (For Boxes Containing Chocolates.) No. 22,150; Sept. 21; v. 278; p. 541.
Hamilton Mfg. Co., Seattle, Wash. "Hamilton's." (For Extracts.) No. 22,357; Dec. 14; v. 281; p. 409.
Handler, Jacob, Brooklyn, N. Y. "J. Handler Lacoin." (For Stains and Varnishes.) No. 21,784; Apr. 13; v. 273; p. 405.
Happ Brothers Co., Macon, Ga. "Kuver Suit." (For Overalls.) No. 21,623; Jan. 6; v. 270; p. 187.
Harbor City Canning Co., Los Angeles, Calif. "All Star." (For Canned Peaches.) No. 21,718; Feb. 24; v. 271; p. 683.
Harris, R., & Co., Washington, D. C. "Jem Kleno." (For a Cleaning and Polishing Preparation.) No. 21,719; Feb. 24; v. 271; p. 683.
Hartford Metal Products Company, The, Hartford, Conn. "Xtra-Good." (For Automobile-Trie Pumps.) No. 21,850; Apr. 27; v. 273; p. 806.
Hedges-Buck Company, Stockton, Calif. "Hedges-Buck Co. Brand." (For Black Pepper.) No. 22,005; Aug. 24; v. 277; p. 785.
Heilman, Frederick, Company, Johnstown, Pa. "Man-Heil Automatic Inhaler." (For Inhalers.) No. 22,007; Aug. 24; v. 277; p. 785.
Heller, B., & Co., Chicago, Ill. "Van Heller." (For Flavoring Extracts.) Nos. 21,720–1; Feb. 24; v. 271; p. 683.
Henning Wennersten Incorporated, Chicago, Ill. "Wennersten's Malthop, the Home Food-Beverage." (For Canned Extracts.) Nos. 22,061–2; Aug. 31; v. 277; p. 977.
Henschel, C. B., Mfg. Co., Milwaukee, Wis. "Dolores." (For Cigars.) No. 21,937; Aug. 3; v. 277; p. 180.
Herrlinger Paper Company, The, Cincinnati, Ohio. "Bungalow Roofing." (For Roofing Fabric.) Nos. 22,322–3; Dec. 7; v. 281; p. 203.
Hershey Ice Cream Company. (See Menasha Printing and Carton Company, assignor.)
Hess, Edward L., Brooklyn, N. Y. "Pop's Peerless Polish." (For a Polish.) No. 22,006; Aug. 24; v. 277; p. 785.
Hibshman, Lucy A., Canton, Ohio. "Sub-Treatment for Goiter and Tumors." (For a Salve for the Treatment of Goiter and Tumors.) No. 21,971; Aug. 17; v. 277; p. 583.
Hirsch Brothers Company Inc., Chicago, Ill. "Exact Whip Powder." (For a Whip-Powder.) No. 21,665; Feb. 3; v. 271; p. 153.
Holtrans Company, Inc., New York, N. Y. "Holco Brand Sardines." (For Sardines.) No. 21,856; May 11; v. 274; p. 403.
Holtrans Company, Inc., New York, N. Y. "Holtrans Tea." (For Tea.) No. 22,297; Nov. 30; v. 280; p. 1005.
Hooven and Allison Company, The, Xenia, Ohio. "The H & A Best Jute Clothes Line." (For Jute Clothesline.) No. 21,939; Aug. 3; v. 277; p. 180.
Hooven and Allison Company, The, Xenia, Ohio. "The H & A Best Sisal Clothes Line." (For Sisal Clothesline.) No. 21,940; Aug. 3; v. 277; p. 180.
Hooven and Allison Company, The, Xenia, Ohio. "The H & A Best New Zealand Hemp Clothes Line." (For New Zealand Hemp Clothesline.) No. 21,941; Aug. 3; v. 277; p. 180.
Hooven and Allison Company, The, Xenia, Ohio. "The H & A Best Istle Clothes Line." (For Istle Clothesline.) No. 21,942; Aug. 3; v. 277; p. 180.
Hooven and Allison Company, The, Xenia, Ohio. "The H & A Best Mauritius Clothes Line." (For Mauritius Clothesline.) No. 21,943; Aug. 3; v. 277; p. 180.
Hooven and Allison Company, The, Xenia, Ohio. "The H & A Best Manila Clothes Line." (For Manila Clothesline.) No. 21,944; Aug. 3; v. 277; p. 180.
Hoover, Roy H., Freeport, Ill. "Plantlife." (For a Fertilizer Compound.) No. 22,108; Sept. 14; v. 278; p. 365.
Hopkins, J. L., & Co., New York, N. Y. "J. L. Hopkins & Co." (For Milled Crude Drugs.) No. 22,008; Aug. 24; v. 277; p. 785.
Hosking, Ben T., & Brother, Chicago, Ill. "Regal." (For Thousand Islands Salad-Dressing.) No. 22,324; Dec. 7; v. 281; p. 203.
Howard, R. S. Company, New York, N. Y. "Player Action Par Excellence." (For Actions for Player-Pianos.) No. 22,151; Sept. 21; v. 278; p. 541.
Hunt, Stanley D., Detroit, Mich. "Colladin." (For Liquid Court-Plaster.) No. 21,722; Feb. 24; v. 271; p. 683.

Digitized by Google

Alphabetical list of registrants of labels—Continued.

Ideal Yeast Company Cedar Rapids, Iowa. "Ideal Special Prepared Malt Products." (For Malt Products.) No. 21,624; Jan. 6; v. 270; p. 187.

International Company, The, Baltimore, Md. "Quick Whip." (For an Egg Product.) No. 21,785; Apr. 13; v. 273; p. 405.

International Refining Company, San Antonio, Tex. "Bake-Rite." (For Lard Substitutes.) No. 21,666; Feb. 3; v. 271; p. 153.

International Refining Company, San Antonio, Tex. "Cot-O-Nut." (For Lard Substitutes.) No. 21,667; Feb. 3; v. 271; p. 153.

International Refining Company, San Antonio, Tex. "La India." (For Lard Substitutes.) No. 21,668; Feb. 3; v. 271; p. 153.

Inter-Urban Water Company, (now by change of name Aquazone Laboratories, Inc.,) Los Angeles, Calif. "Aquazone Oxygen Water." (For Oxygen-Water.) No. 22,325; Dec. 7; v. 281; p. 203.

"Coronado." (For Canned Sardines.) No. 22,358; Dec. 14; v. 281; p. 409.

Isaacson, Joseph R., Chicago, Ill. "Shrine." (For Cigars.) No. 22,184; Oct. 12; v. 279; p. 349.

Isaacson, Joseph R., Chicago, Ill. "Cuban Grown." (For Cigars.) No. 22,109; Sept. 14; v. 278; p. 365.

Italian Distilling Co., The, Chicago, Ill. "Sciroppo Tamarindo." (For Non-Intoxicating Beverages.) No. 21,915; July 27; v. 276; p. 774.

J. D. Chemical Co., Inc., The, Buffalo, N. Y. "J. D. Hair Grower." (For Hair-Tonic.) No. 22,355; Dec. 14; v. 281; p. 409.

Jackson Brewing Company, New Orleans, La. "Jinja-Jac." (For Ginger-Ale—Namely, Jinja-Jac.) No. 22,063; v. 277; p. 977.

Jackson Brewing Company, New Orleans, La. "Jax." (For Cereal Beverages.) No. 22,152; Sept. 21; v. 278; p. 541.

Jacoby, Philip I., San Francisco, Calif. "Kiddie Block." (For Graham Flake.) No. 21,723; Feb. 24; v. 271; p. 683.

Jacoby, Philip I., San Francisco, Calif. "Toyland Special." (For Crackers Known as Joyland Special and Cut in the Shape of a Car.) No. 21,903; July 6; v. 276; p. 206.

Janes, Josephine, Co., Lynbrook and New York, N. Y. "Midget Slumber Toys." (For Boxes Containing Toys—Namely, Dolls.) No. 22,185; Oct. 12; v. 279; p. 349.

Johnson Biscuit Company, Sioux City, Iowa. "A Matter of Good Taste." (For Candies—Namely, Chocolates.) No. 22,326; Dec. 7; v. 281; p. 203.

Johnston, R. F., Paint Company, The, Cincinnati, Ohio. "Thrift." (For Paint.) No. 21,825; Apr. 20; v. 273; p. 627.

Johnston, R. F., Paint Company, The, Cincinnati, Ohio. "Leather Lac." (For Preparation for Refinishing Leather Articles.) No. 22,000; Aug. 24; v. 277; p. 785.

Jordan, Vitalio, Milwaukee, Wis. "Mi Candita." (For Cigars.) No. 21,916; July 27; v. 276; p. 774.

Julian, E. S., Athens, Tenn. "Amebacide Compound." (For Remedy for Pyorrhea.) No. 21,945; Aug. 3; v. 277; p. 180.

Julian, Roger, Brooklyn, N. Y. Quinoids (Eau de Quinine." (For a Hair-Tonic.) No. 21,724; Feb. 24; v. 271; p. 683.

Julian, Roger, Brooklyn, N. Y. "Acqua Di Chinina Magone." (For a Hair-Tonic.) No. 21,972; Aug. 17; v. 277; p. 583.

Kaffee Hag Corporation, New York, N. Y. "Life Belt." (For Coffee.) No. 22,010; Aug. 24; v. 277; p. 785.

Kaplan, Joseph, New York, N. Y. "Fulton." (For Shirts.) No. 22,257; Nov. 23; v. 280; p. 806.

Kellogg, John L., Battle Creek, Mich. "Jim Dandy Corn Candy." (For Candy or Confectionery.) No. 22,327; Dec. 7; v. 281; p. 203.

Kellogg Toasted Corn Flake Co., Battle Creek, Mich. "Kellogg's Drinket." (For a Coffee-Like Beverage.) No. 21,669; Feb. 3; v. 271; p. 153.

Kellogg Toasted Corn Flake Co., Battle Creek, Mich. "Kellogg's Shredded Krumbles." (For Shredded Krumbles.) No. 21,786; Apr. 13; v. 273; p. 405.

Kellogg Toasted Corn Flake Co., Battle Creek, Mich. "Kellogg's Roasted Korn Krisp." (For Roasted Korn Krisp.) No. 21,787; Apr. 13; v. 273; p. 405.

Kellogg Toasted Corn Flake Co., Battle Creek, Mich. "Kellogg's Krumbled Bran." (For a Food.) No. 21,973; Aug. 17; v. 277; p. 583.

Kemi-Pluz Manufacturing Co., Jamaica Plain, Mass. "Kemi-Pluz Liquid Welding Solution." (For a Chemical Solution for Sealing Leaks in Automobile-Radiators and Steam-Boilers.) No. 21,946; Aug. 3; v. 277; p. 180.

Keystone Fruit Products Co., Cincinnati, Ohio. "Keystone Brand." (For Cherries.) No. 21,788; Apr. 13; v. 273; p. 405.

Killian, W. H., Co., Baltimore, Md. "Killian's Kuality Supreme Pears." (For Pears.) No. 22,064; Aug. 31; v. 277; p. 977.

Kirkorian, Garabed, Chelsea, Mass. "Kirkor." (For Ointment.) No. 22,298; Nov. 30; v. 280; p. 1005.

Kistner, Albert X., Clifton, N. J. "Kistner's Spice Salt." (For Kistner's Spice-Salt.) No. 22,328; Dec. 7; v. 281; p. 203.

Knight, Henry B., Boston, Mass. "Laxative Citro Sal Tablets." (For a Medicine.) No. 21,725; Feb. 24; v. 271; p. 683.

Kordick, Peter Company, Chicago, Ill. "The Original Apollo." (For Cigars.) No. 22,110; Sept. 14; v. 278; p. 365.

Krank, Alfred J., St. Paul, Minn. "Lemon Cleansing Cream." (For a Massage and Cleansing Cream.) No. 21,917; July 27; v. 276; p. 774.

Krank, Alfred J., St. Paul, Minn. "Lemon Vanishing Cream." (For a Skin-Cream.) No. 21,918; July 27; v. 276; p. 774.

Krantz Products Company, The, Findlay, Ohio. "Old Dutch." (For Non-Intoxicating Cereal Beverage.) No. 21,789; Apr. 13; v. 273; p. 405.

Kreider Auto Needs Co., Reading, Pa. "Tube-Lock." (For Patches for Rubber Tires, &c.) No. 21,826; Apr. 20; v. 273; p. 627.

Kress, William J., Belgrade, Mont. "Eucalyptolatum." (For an Antiseptic and Healing Preparation.) No. 22,299; Nov. 30; v. 280; p. 1005.

L. & L. Automobile Accessories Corp., Hartford, Conn. "Slip On Transmission Lining for Fords." (For Transmission-Lining Sets for Fords.) No. 22,329; Dec. 7; v. 281; p. 203.

L & T Company, The, Oakland, Calif. "Gold-Kist Syrup." (For Syrup.) No. 22,258; Nov. 23; v. 280; p. 806.

Lacteal Analytical Laboratories, Inc., Buffalo, N. Y. "Oxydene." (For a Disinfectant Sterilizer, Germicide, and Deodorant.) No. 22,011; Aug. 24; v. 277; p. 785.

Lady Jefferson Candy Company, Birmingham, Ala. "Old Style Lady Jefferson Candies Home Made." (For Candies.) No. 21,974; Aug. 17; v. 277; p. 583.

Lake Reedy Packing Company, Frostproof, Fla. "Supreme." (For Oranges, Grape-Fruit, and Tangerines.) No. 21,827; Apr. 20; v. 273; p. 627.

Lake Reedy Packing Company, Frostproof, Fla. "Monte Carlo Brand." (For Oranges, Grape-Fruit, and Tangerines.) No. 21,828; Apr. 20; v. 273; p. 627.

Lares, B. V., Minneapolis, Minn. "69." (For a Medicine.) No. 21,829; Apr. 20; v. 273; p. 627.

Larivee, Laura J., Detroit, Mich. "The Mascot." (For Scalp-Ointment.) No. 21,975; Aug. 17; v. 277; p. 583.

Lash's Products Company, New York, N. Y. "Aro Maté." (For a Non-Alcoholic Beverage Sold as a Soft Drink.) No. 22,359; Dec. 14; v. 281; p. 409.

Laske, Julius, New Haven, Conn. "Laske's Natural Leaf Clippings." (For Tobacco-Clippings.) No. 21,830; Apr. 20; v. 273; p. 627.

La Tosca Knitting Co., Utica, N. Y. "La Tosca Sleepers." (For Children's Sleeping-Garments.) Nos. 21,769–70; Apr. 6; v. 273; p. 183.

Lautz Bros. & Co., Buffalo, N. Y. "Queen White Naphtha Soap." (For Soap.) No. 21,670; Feb. 3; v. 271; p. 153.

Lautz Bros. & Co., Buffalo, N. Y. "Queen Anne Soap Powder." (For Soap Powder.) No. 22,111; Sept. 14; v. 278; p. 365.

Lautz Bros. Co., Buffalo, N. Y. "Queen Anne Scourer." (For a Scouring Preparation.) No. 22,112; Sept. 14; v. 278; p. 365.

Laval Chemical Co., Holyoke, Mass. "Red Pepper Ointment." (For an Ointment.) No. 21,726; Feb. 24; v. 271; p. 683.

Lawrence Canning Company, The, Rockland, Me. "Lawrence's." (For Canned Sardines.) No. 22,065; Aug. 31; v. 277; p. 977.

Laytin, Ben, Omaha, Nebr. "Cowhide." (For Overalls.) No. 22,113; Sept. 14; v. 278; p. 365.

Leas, Russell D., Little Rock, Ark. "National Self Vulcanizing Patch." (For Rubber Patches for Repairs of Rubber Tubes.) No. 22,300; Nov. 30; v. 280; p. 1005.

Lebanon Springs Water Co., Inc., Lebanon Springs, N. Y. "Blue Bell Ginger Ale." (For a Ginger-Ale Beverage.) No. 22,066; Aug. 31; v. 277; p. 977.

Lee, L. H., Elmhurst, Ill. "Oriental." (For Shampoo.) No. 22,155; Sept. 21; v. 278; p. 541.

Leedom, Theodore C., Toledo, Ohio, and Oil City, Pa. "Red Top." (For Evaporated Milk.) No. 22,012; Aug. 24; v. 277; p. 785.

Leoffler Food Products Co., Inc., Washington, D. C. "Dono the Square Donut." (For Doughnuts.) No. 22,114; Sept. 14; v. 278; p. 365.

Leon, A. M., & Company, New York, N. Y. "La Flor de A. M. Leon." (For Cigars.) No. 22,259; Nov. 23; v. 280; p. 806.

Leontine Co., New York, N. Y. "Leontine, The Great Cleaner." (For Cleaning Fluids.) No. 21,671; Feb. 3; v. 271; p. 153.

Levin, I. A., & Co., Baltimore, Md. "Columbia Cut Clothes." (For Men's Clothing.) No. 22,260; Nov. 23; v. 280; p. 806.

Levor, Victor, Attica, Ind. "La Roulette." (For Cigars.) No. 21,625; Jan. 6; v. 270; p. 187.

Levor, Victor, Attica, Ind. "Clinton Hand Made." (For Cigars.) No. 22,067; Aug. 31; v. 277; p. 977.

Lewis Implement and Seed Company, Louisville, Ky. "Red Bird—The Kentucky Cardinal." (For Seeds.) No. 21,727; Feb. 24; v. 271; p. 683.

Lewis, William W., Seattle, Wash. "Uneek Salad Dressing." (For Containers Containing Salad-Dressing.) No. 22,115; Sept. 14; v. 278; p. 365.

Digitized by Google

Alphabetical list of registrants of labels—Continued.

Lindeke, Warner & Sons, Incorporated, St. Paul, Minn. "Rosa-Belle." (For Silks.) No. 21,919; July 27; v. 276; p. 774.
Link, Benjamin, Chicago, Ill. "Quick-Set." (For Anti-Offset, Ink Softener and Drier.) No. 22,301; Nov. 30; v. 280; p. 1005.
Lion Knitting Mills Co., The, Cleveland, Ohio. "The Ace." (For Caps, Sweaters, and Fancy Knit Goods.) No. 22,013; Aug. 24; v. 277; p. 785.
Lippi, Andrew F., Philadelphia, Pa. "Lippi Blood Purifier Tonic." (For a Blood-Tonic.) No. 21,761; Mar. 9; v. 272; p. 372.
Lipton, Thomas J., Inc., Hoboken, N. J.; Chicago, Ill.; San Francisco, Calif. "Lipton's Instant Cocoa." (For Cocoa.) No. 22,068; Aug. 31; v. 277; p. 977.
Lipton, Thomas J., Inc., Hoboken, N. J.; Chicago, Ill., and San Francisco, Calif. "Lipton's Jelly Powder." (For Lemon-Jelly Powder Only.) No. 22,220; Oct. 12; v. 279; p. 350.
Lisenby Manufacturing Company, Fresno, Calif. "Mahlstedt Multicolor Press." (For Printing Presses.) No. 22,069; Aug. 31; v. 277; p. 977.
Littick, Carlos H., Zanesville, Ohio. "Digesto." (For Digestive Powder.) No. 22,370; Dec. 28; v. 281; p. 788.
Loockerman, Charles A., Crisfield, Md. "Savory." (For Canned Tomatoes.) No. 21,886; June 29; v. 275; p. 1022.
Lorenzen, Chas. F., & Co., Chicago, Ill. "Purple Seal Playthings Picture Builder No. 2." (For Educational Playthings—Namely, Picture-Builders.) No. 22,116; Sept. 14; v. 278; p. 365.
Lorenzen, Chas. F., & Co., Chicago, Ill. "Purple Seal Playthings Picture Builder No. 3." (For Educational Playthings—Namely, Picture-Builders.) No. 22,117; Sept. 14; v. 278; p. 365.
Lorenzen, Chas. F., & Co., Chicago, Ill. "Purple Seal Playthings Design Builder No. 41." (For Educational Playthings—Namely, Design-Builders.) No. 22,118; Sept. 14; v. 278; p. 365.
Lorenzen, Chas. F., & Co., Chicago, Ill. "Purple Seal Playthings Design Builder No. 31." (For Educational Playthings—Namely, Design-Builders.) No. 22,119; Sept. 14; v. 278; p. 365.
Lorenzen, Chas. F., & Co., Chicago, Ill. "Purple Seal Playthings Design Builder No. 22." (For Educational Playthings — Namely, Design-Builders.) No. 22,120; Sept. 14; v. 278; p. 365.
Lorenzen, Chas. F., & Co., Chicago, Ill. "Purple Seal Playthings Design Builder No. 11." (For Educational Playthings—Namely, Design-Builders.) No. 22,121; Sept. 14; v. 278; p. 365.
Lorenzen, Chas. F., & Co., Chicago, Ill. "Purple Seal Playthings Design Builder No. 21." (For Educational Playthings—Namely, Design-Builders.) No. 22,122; Sept. 14; v. 278; p. 365.
Lorenzen, Chas. F., & Co., Chicago, Ill. "Purple Seal Playthings Design Builder No. 61." (For Educational Playthings—Namely, Design-Builders.) No. 22,123; Sept. 14; v. 278; p. 365.
Lorenzen, Chas. F., & Co., Chicago, Ill. "Purple Seal Playthings Design Builder No. 51." (For Educational Playthings—Namely, Design-Builders.) No. 22,124; Sept. 14; v. 278; p. 365.
Lorenzen, Chas. F. & Co., Chicago, Ill. "Purple Seal Playthings." (For Educational Playthings—namely, Picture-Builders.) No. 22,153; Sept. 21; v. 278; p. 541.
Lorenzen, Chas. F. & Co., Chicago, Ill. "Purple Seal Playthings." (For Phantom Blocks 71.) No. 22,154; Sept. 21; v. 278; p. 541.
Louisville Food Products Co., Louisville, Ky. "Labor Saver." (For Soap.) No. 22,070; Aug. 31; v. 277; p. 977.
Louisville Food Products Co., Louisville, Ky. "Joy Soap." (For Soap.) No. 22,071; Aug. 31; v. 277; p. 977.
Lovell-Buffington Tobacco Company, Covington, Ky. "Swansea English Smoking Mixture." (For Smoking-Tobacco.) No. 22,360; Dec. 14; v. 281; p. 409.
Lovell-Buffington Tobacco Company, Covington, Ky. "Berwick Smoking Mixture." (For Smoking-Tobacco.) No. 22,361; Dec. 14; v. 281; p. 409.
Lown, Pearl E., Oklahoma, Okla. "Money Back Tube Patch." (For Tire-Patches.) No. 21,728; Feb. 24; v. 271; p. 683.
Lubric Oil Company, The, Cleveland, Ohio. "Olfashun." (For Gasolene.) No. 21,729; Feb. 24; v. 271; p. 683.
Lundquist, L. E., Portland, Oreg. "Kracker Nut." (For a Popcorn Confection.) No. 22,261; Nov. 23; v. 280; p. 806.
Lynchburg Shoe Company, Lynchburg, Va. "Workmanship, Quality, Service." (For Boots and Shoes.) No. 21,771; Apr. 6; v. 273; p. 183.
Lyriotakis Bros., New York, N. Y. "Vittoria." (For Olive-Oil.) No. 21,626; Jan. 6; v. 270; p. 187.
M. & S. Chemical Co., The, Omaha, Nebr. "Peerless Laundry Tablets." (For Laundry-Tablets.) No. 21,858; May 11; v. 274; p. 403.
McCord-Brady Company, Omaha, Nebr. "The Famous Brew." (For Coffee.) No. 21,947; Aug. 3; v. 277; p. 180.
McCrary, Frank B., Knoxville, Tenn. "Mack's Old Kentucky Fruitta Punch." (For a Flavoring-Syrup.) No. 21,976; Aug. 17; v. 277; p. 583.
McNamara, Lou, Kansas City, Mo. "Sweet Hearts Quality." (For Plastic Skin-Lotions.) No. 21,977; Aug. 17; v. 277; p. 583.
McQuay-Norris Mfg. Co., St. Louis, Mo. "Zig-Zag Piston Rings." (For Piston-Rings.) No. 21,674; Feb. 3; v. 271; p. 153.
McQuay-Norris Mfg. Co., St. Louis, Mo. "United Piston Rings." (For Piston-Rings.) No. 21,675; Feb. 3; v. 271; p. 153.
Mackenzie, Robert F., Co., The, Cleveland, Ohio. "Blue Bell." (For Nut Creams.) No. 22,205; Oct. 12; v. 279; p. 349.
Mackenzie, Robert F., Co., The, Cleveland, Ohio. "Scotch Lassie." (For Candy.) No. 22,206; Oct. 12; v. 279; p. 349.
Mackenzie, Robert F., Co., The, Cleveland, Ohio. "Milk Chocolate Almond Creams." (For Candy—Namely, Milk-Chocolate Almond Creams.) No. 22,207; Oct. 12; v. 279; p. 349.
Mackenzie, Robert F., The, Cleveland, Ohio. "Tam O'Shanter." (For Candy.) No. 22,208; Oct. 12; v. 279; p. 349.
Mackenzie, Robert F., The, Cleveland, Ohio. "Cara-Nut Bar." (For Candy.) No. 22,209; Oct. 12; v. 279; p. 349.
Mackenzie, Robert F., The, Cleveland, Ohio. "Blue Bell Brand." (For Italian Creams.) No. 22,210; Oct. 12; v. 279; p. 349.
Mackenzie, Robert F., The, Cleveland, Ohio. "Piper." (For Candy.) No. 22,211; Oct. 12; v. 279; p. 349.
Mackenzie, Robert F., The, Cleveland, Ohio. "Old Hickory." (For Candy—Namely, Nougat.) No. 22,212; Oct. 12; v. 279; p. 349.
Mackenzie, Robert F., The, Cleveland, Ohio. "White Heather." (For Chocolate Fruit Creams.) No. 22,213; Oct. 12; v. 279; p. 349.
Mackenzie, Robert F., The, Cleveland, Ohio. "Kilties." (For Candy.) No. 22,214; Oct. 12; v. 279; p. 350.
Mackenzie, Robert F., The, Cleveland, Ohio. "Peanut Dips." (For Peanut Dips.) No. 22,215; Oct. 12; v. 279; p. 350.
Mackenzie, Robert F., The, Cleveland, Ohio. "Trithis." (For Candy.) No. 22,216; Oct. 12; v. 279; p. 350.
Mackenzie, Robert F., Co., The, Cleveland, Ohio. "King Sol." (For Candy.) No. 22,330; Dec. 7; v. 281; p. 203.
Magnolia Cigar Company, Brooklyn, N. Y. "Magnolia." (For Cigars.) No. 21,790; Apr. 18; v. 278; p. 405.
Magnus Drug Chemical Company, Chicago, Ill. "Magnus Stomach Bitters." (For a Proprietary Medicine.) No. 21,857; May 11; v. 274; p. 403.
Magnus, Joseph E., Chicago, Ill. "Puritan Malt Extract." (For Cans Containing Malt Extract.) No. 22,125; Sept. 14; v. 278; p. 365.
Major, Joseph, Detroit, Mich. "Major's Consumption Relief." (For a Preparation for the Relief of Consumption.) No. 21,627; Jan. 6; v. 270; p. 187.
Major, Joseph, Detroit, Mich. "Major's Cholera Medicine." (For a Treatment for Cholera.) No. 21,628; Jan. 6; v. 270; p. 187.
Major, Joseph, Detroit, Mich. "Major's Nerve Medicine." (For a Nerve Medicine.) No. 21,629; Jan. 6; v. 270; p. 187.
Malarial Specific Company, Inc., New York, N. Y. "Antiplasma Label." (For Malarial Medicine.) No. 22,014; Aug. 24; v. 277; p. 785.
Mandabach, Peter A., Chicago, Ill. "Malt Phosphate." (For Malt Phosphate.) No. 21,630; Jan. 6; v. 270; p. 187.
Mandabach, Peter A., Chicago, Ill. "Mentho-Malted Horehound Kisses." (For Hoarhound Kisses.) No. 21,791; Apr. 18; v. 273; p. 405.
Mandabach, Peter A., Chicago, Ill. "Laxative Chocolate Bar." (For Laxative Chocolate Bars.) No. 21,792; Apr. 18; v. 273; p. 405.
Mandabach, Peter A., Chicago, Ill. "Charcoal Tooth Paste." (For Tooth-Paste.) No. 21,793; Apr. 18; v. 273; p. 405.
Mandabach, Peter A., Chicago, Ill. "American Disinfectant." (For American Disinfectant.) No. 22,015; Aug. 24; v. 277; p. 785.
Mandabach, Peter A., Chicago, Ill. "Euco-Mint." (For Packages Containing Tooth-Paste.) No. 22,156; Sept. 21; v. 278; p. 541.
Mangan & Co., New York, N. Y. "Hairforever." (For a Hair-Tonic.) No. 21,647; Jan. 27; v. 270; p. 618.
Manilo Chemical Co., Minneapolis, Minn. "Manilo." (For a Medicine.) No. 21,730; Feb. 24; v. 271; p. 683.
Mansfield Drug Co., Mansfield, La. "Syrup Mentho-Squillo." (For a Cough Remedy.) No. 21,731; Feb. 24; v. 271; p. 683.
Marcy, Ira, Oil City, Pa. "Excelsior Cement." (For Cement.) No. 21,732; Feb. 24; v. 271; p. 683.
Mari, E. & O., Winfield Junction, N. Y. "La Bella." (For Musical-Instrument Strings Made of Gut.) No. 22,072; Aug. 31; v. 277; p. 977.
Marrow, Isidore L., New York, N. Y. "Harvard Men's Finest Underwear." (For Men's Underwear.) No. 21,887; June 29; v. 275; p. 1022.

Digitized by Google

Alphabetical list of registrants of labels—Continued.

Marrow, Isidore L., New York, N. Y. "Harvard Boys' Finest Underwear." (For Boys' Underwear.) No. 21,888; June 29; v. 275; p. 1022.
Marsh, Caroline Foote, Portland, Me. "Conde Cordial." (For a Non-Alcoholic Fruit Beverage.) No. 22,262; Nov. 23; v. 280; p. 806.
Martin, C. J., Austin, Tex. "Martin's Wonderful." (For Remedies for Bugs and Insects.) No. 21,672; Feb. 3; v. 271; p. 153.
Mason, Au & Magenheimer Confectionery Mfg. Co., Brooklyn, N. Y. "Mason's Khufu." (For Chocolate Cocoanut Cream Bars.) Nos. 21,859–60; May 11; v. 274; p. 403.
Mason, Au & Magenheimer Confectionery Mfg. Co., Brooklyn, N. Y. "Mason's Nut Malobar." (For Chocolate Marshmallow Candy.) No. 21,861; May 11; v. 274; p. 403.
Mason, Au & Magenheimer Confectionery Mfg. Co., Brooklyn, N. Y. "Mason Mints." (For Mint Candy.) Nos. 21,862–3; May 11; v. 274; p. 403.
Mason, Au & Magenheimer Confectionery Mfg. Co., Brooklyn, N. Y. "Nut Malobar." (For Chocolate Marshmallow Candy.) No. 22,186; Oct. 12; v. 279; p. 849.
Mason, Au & Magenheimer Confectionery Mfg. Co., Brooklyn, N. Y. "Mason Mints." (For Mint Candy.) No. 22,187; Oct. 12; v. 279; p. 849.
Maxcy, Latimer, Frostproof, Fla. "Cock Brand." (For Citrus Fruits.) No. 21,673; Feb. 3; v. 271; p. 153.
Menasha Printing and Carton Company, Menasha, Wis., assignor to Oregon Milk Product, Inc., Portland, Oreg. "O M P." (For Cartons Containing Butter.) No. 22,263; Nov. 23; v. 280; p. 806.
Menasha Printing and Carton Company, Menasha, assignor to Mory Ice Cream Co., Appleton, Wis. "Mory Ice Cream Co." (For Cartons Containing Ice-Cream.) No. 22,264; Nov. 23; v. 280; p. 806.
Menasha Printing and Carton Company, Menasha, Wis., assignor to Rieck McJunkin Dairy Company, Pittsburgh, Pa. "Rieck-McJunkin Sweet Butter." (For Cartons Containing Butter.) No. 22,265; Nov. 23; v. 280; p. 806.
Menasha Printing and Carton Company, Menasha, Wis., assignor to R. F. Worden & Sons, Waterbury, Conn. "R. F. Worden & Sons." (For Cartons Containing Ice-Cream.) No. 22,266; Nov. 23; v. 280; p. 806.
Menasha Printing and Carton Company, Menasha, Wis. "Butter Top." (For Waxed-Paper Wrappers Containing Bread.) No. 22,267; Nov. 23; v. 280; p. 806.
Menasha Printing and Carton Company, Menasha, Wis., assignor to De Haven Ice Cream Company, Cincinnati, Ohio. "De Haven Quality Ice Cream." (For Cartons Containing Ice-Cream.) No. 22,268; Nov. 23; v. 280; p. 806.
Menasha Printing and Carton Company, Menasha, Wis., assignor to R. F. Worden & Sons, Waterbury, Conn. "Worden's Neapolitan Ice Cream." (For Cartons Containing Ice-Cream.) No. 22,269; Nov. 23; v. 280; p. 806.
Menasha Printing and Carton Company, Menasha, Wis., assignor to R. F. Worden & Sons, Waterbury, Conn. "Worden's Delicious Ice Cream." (For Cartons Containing Ice-Cream.) No. 22,270; Nov. 23; v. 280; p. 806.
Menasha Printing and Carton Company, Menasha, Wis., assignor to Hershey Ice Cream Company, Harrisburg, Pa. "Hershey's Superior Ice Cream." (For Cartons Containing Ice-Cream.) No. 22,271; Nov. 23; v. 280; p. 806.
Menasha Printing and Carton Company, Menasha, Wis., assignor to Goodale Ice Cream Company, Centralia, Ill. "Goodale's Ice Cream." (For Cartons Containing Ice-Cream.) No. 22,302; Nov. 30; v. 280; p. 1005.
Menasha Printing and Carton Company, Menasha, Wis., assignor to Noaker Ice Cream Company, Canton, Ohio. "The Noaker Ice Cream Co." (For Cartons Containing Ice-Cream.) No. 22,303; Nov. 30; v. 280; p. 1005.
Menasha Printing and Carton Company, Menasha, Wis., assignor to Russ Brothers, Harrisburg, Pa. "Velvet Ice Cream." (For Cartons Containing Ice-Cream.) No. 22,304; Nov. 30; v. 280; p. 1005.
Menasha Printing and Carton Company, Menasha, Wis., assignor to R. F. Worden & Sons, Waterbury, Conn. "R. F. Worden & Sons." (For Cartons Containing Ice-Cream.) No. 22,305; Nov. 30; v. 280; p. 1005.
Menasha Printing and Carton Company, Menasha, Wis., assignor to Pioneer Creamery Co., Galesburg, Ill. "Pioneer Creamery Co." (For Cartons Containing Butter.) No. 22,306; Nov. 30; v. 280; p. 1005.
Menasha Printing and Carton Company, Menasha, Wis., assignor to Ford Motor Co. of Delaware. "Supreme Quality Creamery Butter." (For Cartons Containing Butter.) No. 22,331; Dec. 7; v. 281; p. 203.
Men-Tho-Eze Corporation, Fort Dodge, Iowa. "Men-Tho-Eze 'Grandma Knows.'" (For Ointment.) No. 21,948; Aug. 3; v. 277; p. 180.
Merrimac Packing Co., Lawrence, Mass. "Black-Iron." (For Stove-Polishes.) No. 22,126; Sept. 14; v. 278; p. 365.
Meyer, Clifford L., Pittsburgh, Pa. "Keystone Slip-on Garter." (For Men's Garters.) No. 21,733; Feb. 24; v. 271; p. 683.
Middletown Packing Co., Middletown, Md. "Mid-Valley Brand Maine Style Sweet Corn." (For Sweet Corn.) No. 21,881; Apr. 20; v. 273; p. 627.
Miller, Solomon S., Reading, Pa. "Miller." (For Men's Socks.) Nos. 22,332–3; Dec. 7; v. 281; p. 203.
Milwaukee Macaroni Co., Milwaukee, Wis. "Pagliacci Brand." (For Macaroni.) No. 22,016; Aug. 24; v. 277; p. 785.
Milwaukee Paper Box Company, Milwaukee, Wis. "Milk Chocolates." (For Chocolate Candy.) No. 21,681; Jan. 6; v. 270; p. 187.
Milwaukee Paper Box Company, Milwaukee, Wis. "Chocolates Moulded in Cups." (For Candy.) No. 21,676; Feb. 3; v. 271; p. 153.
Milwaukee Paper Box Company, Milwaukee, Wis. "Shelley's Chocolates." (For Candy.) No. 21,677; Feb. 3; v. 271; p. 153.
Milwaukee Paper Box Company, Milwaukee, Wis. "Chocolate Covered Fruits in Cream." (For Candy.) Nos. 21,678–9; Feb. 3; v. 271; p. 153.
Milwaukee Paper Box Company, Milwaukee, Wis. "Candies." (For Candy.) No. 21,794; Apr. 13; v. 273; p. 405.
Milwaukee Paper Box Company, Milwaukee, Wis. "Goodies." (For Candy.) No. 21,882; Apr. 20; v. 273; p. 627.
Milwaukee Paper Box Company, Milwaukee, Wis. "Chocolate Covered Nuts." (For Chocolate Candy—namely, Chocolate-Covered Nuts.) No. 21,864; May 11; v. 274; p. 403.
Milwaukee Paper Box Company, Milwaukee, Wis. "Chocolate Covered Cherries." (For Chocolate-Covered Cherries.) No. 21,949; Aug. 3; v. 277; p. 180.
Milwaukee Paper Box Company, Milwaukee, Wis. "Chocolate Covered Cherries." (For Chocolate Cherries.) No. 22,017; Aug. 24; v. 277; p. 785.
Milwaukee Paper Box Company, Milwaukee, Wis. "Twentieth Century Chocolates." (For Chocolate Candy.) No. 22,018; Aug. 24; v. 277; p. 785.
Milwaukee Paper Box Company, Milwaukee, Wis. "The Bal Masque." (For Chocolate Candy.) No. 22,019; Aug. 24; v. 277; p. 785.
Milwaukee Paper Box Company, Milwaukee, Wis. "Milk Chocolates." (For Milk-Chocolates.) No. 22,020; Aug. 24; v. 277; p. 785.
Milwaukee Paper Box Company, Milwaukee, Wis. "Milk Chocolates." (For Chocolate Candy.) No. 22,074; Aug. 31; v. 277; p. 977.
Milwaukee Paper Box Company, Milwaukee, Wis. "My-O-My Chocolates." (For Boxes Containing Chocolate Candy.) No. 22,127; Sept. 14; v. 278; p. 365.
Milwaukee Paper Box Company, Milwaukee, Wis. "Chocolate Covered Nougats." (For Boxes Containing Chocolate Candy.) No. 22,128; Sept. 14; v. 278; p. 365.
Milwaukee Paper Box Company, Milwaukee, Wis. "Old Style Chocolate Creams." (For Boxes Containing Chocolate Creams.) No. 22,129; Sept. 14; v. 278; p. 365.
Milwaukee Paper Box Company, Milwaukee, Wis. "Chocolate Covered Cherries." (For Boxes Containing Chocolate-Covered Cherries.) No. 22,130; Sept. 14; v. 278; p. 365.
Milwaukee Paper Box Company, Milwaukee, Wis. "Her Candied Opinion." (For Boxes Containing Chocolate Candy.) No. 22,157; Sept. 21; v. 278; p. 541.
Milwaukee Paper Box Company, Milwaukee, Wis. "Shelley's Chocolates." (For Boxes Containing Chocolate Candy.) No. 22,158; Sept. 21; v. 278; p. 541.
Milwaukee Paper Box Company, Milwaukee, Wis. "Chocolate of Yore." (For Boxes Containing Chocolate Candy.) No. 22,159; Sept. 21; v. 278; p. 541.
Milwaukee Paper Box Company, Milwaukee, Wis. "Cherries Chocolate Covered." (For Boxes Containing Chocolate-Covered Cherries.) No. 22,234; Dec. 7; v. 281; p. 203.
Milwaukee Paper Box Company, Milwaukee, Wis. "Assorted Chocolates." (For Boxes Containing Chocolate Candy.) No. 22,335; Dec. 7; v. 281; p. 203.
Milwaukee Paper Box Company, Milwaukee, Wis. "Milk Chocolates." (For Boxes Containing Chocolate Candy.) No. 22,336; Dec. 7; v. 281; p. 203.
Milwaukee Paper Box Company, Milwaukee, Wis. "Chocolates General Assortment." (For Boxes Containing Chocolate Candy.) No. 22,337; Dec. 7; v. 281; p. 203.
Minck Bros. & Co., Inc., Brooklyn, N. Y. "Grape-O." (For a Beverage.) No. 22,073; Aug. 31; v. 277; p. 977.
Mitchell, John H., Baltimore, Md. "Carb-Out Carbon Remover." (For Lubricating-Solvent and Carbon-Remover.) No. 21,889; June 29; v. 275; p. 1022.
Mitchell, L., & Co., Chicago, Ill. "Magic Marvel." (For Packages Containing Washing-Powder.) No. 22,131; Sept. 14; v. 278; p. 365.
Miracle Company, Chicago, Ill. "Miracle." (For Beverages.) No. 21,890; June 29; v. 275; p. 1022.
Mohawk Valley Cap Factory, Utica, N. Y. "Mohawk Knit Caps." (For Knitted Caps.) No. 21,772; Apr. 6; v. 273; p. 183.
Mohawk Valley Cap Factory, Utica, N. Y. "Mohawk Sweaters." (For Sweaters.) No. 21,773; Apr. 6; v. 273; p. 183.

Digitized by Google

Alphabetical list of registrants of labels—Continued.

Morse, A. G., Co., Chicago, Ill. "Value Received." (For Chocolates.) No. 21,950; Aug. 3; v. 277; p. 180.
Morgan, S. H., Manufacturing Company, Pasadena, Calif. "Morgans Cold Sweet Cream." (For Cold-Cream.) No. 22,307; Nov. 30; v. 280; p. 1005.
Morgan Spring Company, Worcester, Mass. "Eclipse Ironing Sheet Stretchers." (For Ironing-Sheet Stretchers.) No. 22,338; Dec. 7; v. 281; p. 203.
Morse, A. G., Co., Chicago, Ill. "The Preferred Chocolates." (For Chocolates.) No. 21,951; Aug. 3; v. 277; p. 180.
Morse, A. G., & Co., Chicago, Ill. "Double Strength." (For Hard Candies—Namely, Hoarhound.) No. 22,075; Aug. 31; v. 277; p. 977.
Mory Ice Cream Co. (See Menasha Printing and Carton Company, assignor.)
Moser, Robert R., Kansas City, Mo. "Warranted Polish." (For Polish for Pianos, Furniture, Automobiles, Leather, Woodwork, and other Smooth Surfaces.) No. 22,233; Nov. 16; v. 280; p. 587.
Mulhens & Kropff Incorporated, New York, N. Y. "Transparent Glycerine Soap." (For Soap.) No. 22,188; Oct. 12; v. 279; p. 349.
Mulhens & Kropff Incorporated, New York, N. Y. "Extrait D'Eau de Cologne Double." (For Cologne.) No. 22,189; Oct. 12; v. 279; p. 349.
Murdock, Albert E., South Hingham, Mass. "Murdock's Nufood." (For Concentrated Food-Powders.) No. 22,272; Nov. 23; v. 280; p. 807.
Murphy, Joseph M., Salt Lake City, Utah. "Veno." (For Fruit-Juice.) No. 22,362; Dec. 14; v. 281; p. 409.
Musher & Company, Incorporated, Washington, D. C. "Pompeian Sardines." (For Sardines.) No. 21,784; Feb. 24; v. 271; p. 683.
Mutual Orange Distributors, Redlands, Calif. "Sunflower." (For Valencias.) No. 21,735; Feb. 24; v. 271; p. 683.
Mutual Paint Company, St. Paul, Minn. "Mutual." (For Paints and Varnishes.) No. 22,076; Aug. 31; v. 277; p. 977.
Nacarine Co., The, New York, N. Y. "Nacarine." (For a Lotion for the Complexion.) No. 21,920; July 27; v. 276; p. 774.
Nartz, Louis, Sioux City, Iowa. "Nartz's Sterling Bread." (For a Wrapper for Bread-Loaves.) No. 22,077; Aug. 31; v. 277; p. 977.
National Canners Association, Washington, D. C. "Canned Food—the Miracle on Your Table." (For Canned Goods.) No. 21,774; Apr. 6; v. 273; p. 183.
National Canners Association, Washington, D. C. "Seat of the Sanitary Inspection Service." (For Canned Foods.) No. 22,273; Nov. 23; v. 280; p. 807.
Nekritz, Louis, Brooklyn, N. Y. "Stove Lustre." (For Stove and Wood Polish.) No. 21,681; Feb. 3; v. 271; p. 153.
Nelson, Olaf A., San Francisco, Calif. "Nelson's. (For Canned Fruit.) No. 21,891; June 29; v. 275; p. 1022.
Neptune Sea Food Co., San Diego, Calif. "Matinee." (For Canned Sardines.) No. 21,682; Feb. 3; v. 271; p. 153.
Nevada Products Company, assignor to Reno Brewing Co., Inc., Reno, Nev. "Acme." (For a Healthful Beverage.) No. 22,308; Nov. 30; v. 280; p. 1005.
New Central Canning Co., New Orleans, La. "Angel Brand Tomato Paste." (For Tomato Paste.) No. 22,274; Nov. 23; v. 280; p. 807.
Newark Paraffine & Parchment Paper Co., Newark, N. J.; Columbus, Ohio, and New York, N. Y. "Milkmaid Bread." (For Bread.) No. 22,021; Aug. 24; v. 277; p. 785.
Newark Paraffine & Parchment Paper Co., Newark, N. J.; Columbus, Ohio, and New York, N. Y. "Dixie Chews." (For Candy.) No. 22,132; Sept. 14; v. 278; p. 365.
Newhall, H. M., & Co., San Francisco, Calif. "Newhall." (For Canned Peaches.) No. 21,736; Feb. 24; v. 271; p. 683.
Newhall, H. M., & Co., San Francisco, Calif. "Newhall." (For Canned Tomatoes with Purée.) No. 21,737; Feb. 24; v. 271; p. 684.
Niagara Wall Paper Company, Niagara Falls, N. Y. "Niagara Wall Paper." (For Rolls of Printed Wall-Paper.) No. 22,275; Nov. 23; v. 280; p. 807.
Nielsen & Kittle Canning Company, Ltd., East San Pedro, Cal. "Nekco." (For California Kippered Sardines.) No. 22,022; Aug. 24; v. 277; p. 785.
Noaker Ice Cream Company. (See Menasha Printing and Carton Company, assignor.)
Nocan Soup Company, Hoboken, N. J. "Dehydrated Soup Nocan Taste." (For Dehydrated Soups.) No. 22,078; Aug. 31; v. 277; p. 977.
No-Leak-O Piston Ring Company, Baltimore, Md. "No-Leak-O Oilsealing." (For Piston-Rings.) No. 22,133; Sept. 14; v. 278; p. 365.
Northwest Evaporating Company, Cashmere, Wash. "Evaporated Washington Apples." (For Evaporated Apples.) No. 21,795; Apr. 18; v. 273; p. 405.
Nullan, Zeno, New Orleans, La. "Mullan's 3 in 1 Polish." (For Furniture-Polish.) No. 21,680; Feb. 3; v. 271; p. 153.
O'Brian, A. W., & Company, Hutchinson, Kans. "Germa Stomach and Liver Tablets." (For Stomach and Liver Tablets.) No. 21,978; Aug. 17; v. 277; p. 583.
O'Brian, A. W., & Company, Hutchinson, Kans. "Germa Kidney Tablets." (For Kidney-Tablets.) No. 22,079; Aug. 31; v. 277; p. 977.
Ocean Paint Works, Inc., Brooklyn, N. Y. "Marine Paints." (For Paints.) No. 22,023; Aug. 24; v. 277; p. 785.
Ocean Paint Works, Inc., Brooklyn, N. Y. "Mermaid Paints." (For Paints.) No. 22,024; Aug. 24; v. 277; p. 785.
Odell, R., & Sons Co., Newark, N. J. "American Beauty Hair Tonic." (For Hair-Tonic.) No. 22,363; Dec. 14; v. 281; p. 409.
Oelbaum Bros. & Bauer, New York, N. Y. "Tommy Tucker." (For Boys' Blouses and Shirts.) No. 22,190; Oct. 12; v. 279; p. 349.
Ohio Confection Company, The, Cleveland, Ohio. "Ditty Dotty." (For Candy.) No. 21,952; Aug. 3; v. 277; p. 180.
Oppenheim, Oberndorf & Co., Inc., Baltimore, Md. "'Buddy' and 'Dolly' Vindex Undersuits." (For Underwear.) No. 21,682; Jan. 6; v. 270; p. 187.
Orange Hosiery Mills, Inc., Orange, N. J. "Orange Knit Hosiery." (For Hosiery.) No. 22,309; Nov. 30; v. 280; p. 1005.
Oregon Milk Products. (See Menasha Printing and Carton Company, assignor.)
Orrison Cigar Co., Inc., The, Bethesda, Ohio. "Orico." (For Cigars.) No. 22,025; Aug. 24; v. 277; p. 785.
Pacific Coast Syrup Co., San Francisco, Calif.; Seattle, Wash., and Portland, Oreg. "Marsh Mallow." (For Corn-Syrup, Cane Flavor.) No. 21,683; Feb. 3; v. 271; p. 153.
Pacific Fruit & Produce Co., Portland, Oreg. "State Seal Brand." (For Fresh Apples.) No. 21,851; Apr. 27; v. 273; p. 806.
Pacific Guano & Fertilizer Co., The, Honolulu, Hawaii. "Gaviota" (Sea Gull.) (For Artificial Fertilizer.) No. 22,160; Sept. 21; v. 278; p. 541.
Page, James H. B., Vidalia, Ga. "Big Chief Tonic." (For a Medicine.) No. 21,789; Feb. 24; v. 271; p. 684.
Palmetto Cigar Co., New York, N. Y. "Palmetto." (For Cigars.) No. 22,364; Dec. 14; v. 281; p. 409.
Pan-America Supply Company, Inc., New York, N. Y. "Pasco." (For Greases.) No. 21,962; Aug. 10; v. 277; p. 393.
Para Chemical Co., Los Angeles, Calif. "Para Tire Paint." (For Preparation for Dressing or Refinishing Second-Hand Tires.) No. 22,191; Oct. 12; v. 279; p. 349.
Pasbach-Voice Litho. Co., Inc., New York, N. Y. "Nichel Smoke." For Cigars.) No. 21,638; Jan. 6; v. 270; p. 187.
Pauley, Edwin J. H., Atlantic City, N. J. "Gasfix." (For Gasolene-Purifier and Carbon-Preventive.) No. 21,740; Feb. 24; v. 271; p. 684.
Pearl City Fruit Co. Ltd., Honolulu, Hawaii. "Pinebrosia." (For Pineapple Jelly.) No. 21,684; Feb. 3; v. 271; p. 153.
Pearl City Fruit Co. Ltd., Honolulu, Hawaii. "Pinebrosia." (For Pineapple-Syrup for Making Beverages.) No. 21,685; Feb. 3; v. 271; p. 153.
Pennsylvania Chocolate Company, Pittsburgh, Pa. "Chocolat Supérieur." (For Chocolate.) No. 21,741; Feb. 24; v. 271; p. 684.
Pennsylvania Chocolate Company, Pittsburgh, Pa. "Big '6' Chocolate." (For Vanilla Sweet Chocolate.) No. 22,026; Aug. 24; v. 277; p. 785.
Pennsylvania Chocolate Company, Pittsburgh, Pa. "Zay-Tek." (For Chocolate and Cocoa.) No. 22,134; Sept. 14; v. 278; p. 365.
Pennsylvania Soap Company, The, Lancaster, Pa. "Soap Baby." (For Soap.) No. 21,869; May 18; v. 274; p. 612.
Pentz, Mrs. Marie, Brookwood, Ala. "Dr. Rayner's Ointment." (For Ointment.) No. 22,310; Nov. 30; v. 280; p. 1005.
Permatite Manufacturing Company, Inc., Minneapolis, Minn. "Perma-Tite Valve Grinding Compound." (For Cans Containing a Valve-Grinding Compound.) No. 22,161; Sept. 21; v. 278; p. 541.
Permatite Manufacturing Company, Inc., Minneapolis, Minn. "Perma-Tite Household Patch." (For Packages Containing a Household Patch for Patching Rubber Goods.) No. 22,162; Sept. 21; v. 278; p. 541.
Permatite Manufacturing Company, Inc., Minneapolis, Minn. "Perma-Tite Cobblers Repair Kit." (For a Repair Kit.) No. 22,311; Nov. 30; v. 280; p. 1005.
Peters Manufacturing Company, Boston, Mass., and New York, N. Y. "American Cloth." (For Cloth.) No. 22,163; Sept. 21; v. 278; p. 541.
Pettijohn Pure Products Co., Minneapolis, Minn. "Pettijohn's Crispy Chips." (For Potato Chips.) No. 22,339; Dec. 7; v. 281; p. 203.
Phillips, M., & Co., San Francisco, Calif. "Phillips Brand." (For Canned Salmon.) No. 21,634; Jan. 6; v. 270; p. 187.
Piel Bros., Inc., Brooklyn, N. Y. "Piel's Extra Export." (For a Cereal Beverage.) No. 22,192; Oct. 12; v. 279; p. 349.
Piel Bros., Inc., Brooklyn, N. Y. "Cerveza Clara." (For a Cereal Beverage.) No. 22,193; Oct. 12; v. 279; p. 349.

Digitized by Google

Piel Bros., Inc., Brooklyn, N. Y. "Cerveza Negra." (For a Cereal Beverage.) No. 22,194; Oct. 12; v. 279; p. 349.
Piel Bros., Inc., Brooklyn, N. Y. "Piel Bros. Dark." (For a Cereal Beverage.) No. 22,195; Oct. 12; v. 279; p. 349.
Piel Bros., Inc., Brooklyn, N. Y. "Piel's Light." (For a Cereal Beverage.) No. 22,196; Oct. 12; v. 279; p. 349.
Piel Bros., Inc., Brooklyn, N. Y. "Piel's Birch Beer." (For Birch-Beer.) No. 22,197; Oct. 12; v. 279; p. 349.
Piel Bros., Inc., Brooklyn, N. Y. "Piel's Ginger Ale." (For Ginger-Ale.) No. 22,198; Oct. 12; v. 279; p. 349.
Piel Bros., Inc., Brooklyn, N. Y. "Extracto de Malta." (For a Cereal Beverage.) Nos. 22,199–200; Oct. 12; v. 279; p. 349.
Piel Bros., Inc., Brooklyn, N. Y. "Piel's Apple Ale." (For Apple-Ale.) No. 22,201; Oct. 12; v. 279; p. 349.
Piel Bros., Inc., Brooklyn, N. Y. "Malt Extract." (For a Cereal Beverage.) Nos. 22,202–3; Oct. 12; v. 279; p. 349.
Piel Bros., Inc., Brooklyn, N. Y. "Extracto de Malta Negra." (For a Cereal Beverage.) No. 22,204; Oct. 12; v. 279; p. 349.
Pierson, A. L., Mfg. Co., Galveston, Tex. "Alp." (For Men's Drawers.) No. 21,953; Aug. 3; v. 277; p. 180.
Pillsbury Flour Mills Company, Minneapolis, Minn. "Pillsbury's Wheat Cereal." (For Wheat Cereal.) No. 21,764; Mar. 5; v. 272; p. 732.
Pioneer Creamery Co. (See Menasha Printing and Carton Company, assignor.)
Pioneer Products, Inc., New York, N. Y. "Air-Peds." (For Shoe Soles and Heels.) No. 22,276; Nov. 23; v. 280; p. 807.
Placentia Mutual Orange Association, Placentia, Calif. "Marvel." (For Oranges.) No. 21,892; June 29; v. 275; p. 1022.
Poehlman, J., & Sons, Baltimore, Md. "The Butter that Betters the Bread." (For Butter.) No. 21,893; June 29; v. 275; p. 1022.
Pohland, Lydia, Milwaukee, Wis. "Nature's Blood and Cell-Foods." (For Medicine.) No. 21,686; Feb. 3; v. 271; p. 153.
Powel Preserving Co., Downey, Calif. "Marker Brand Made Pure." (For Preserved Figs.) No. 22,340; Dec. 7; v. 281; p. 203.
Price Compound Company, Minneapolis, Minn. "Price's No Ice." (For Preservative Compound for Fish and Game.) No. 22,164; Sept. 21; v. 278; p. 541.
Price, N., Son & Co., Philadelphia, Pa. "Price Tailored Headwear." (For Headwear.) No. 21,635; Jan. 6; v. 270; p. 187.
Prina, Frank R., Corp'n, The, New York, N. Y. "Sem-ⓞ Lah." (For Flour for Making Macaroni.) No. 22,341; Dec. 7; v. 281; p. 203.
Pulos Bros., Elmira, N. Y. "Log Cabin." (For Candy—Namely, Pecan Rolls.) No. 21,921; July 27; v. 276; p. 774.
Puritan Candy Co., Milwaukee, Wis. "Claretta." (For Candy—Namely, Chocolates.) No. 22,312; Nov. 30; v. 280; p. 1005.
Putnam, Alfred, & Company, New York, N. Y. "Thurber's Windham Corn." (For Canned Corn.) No. 21,796; Apr. 13; v. 273; p. 405.
Putnam, Alfred, & Company, New York, N. Y. "Thurber's Bartlett Pears." (For Canned Bartlett Pears.) No. 21,797; Apr. 13; v. 273; p. 405.
Rainbow Chocolate Company, Chicago, Ill. "Nature's Reward." (For Chocolate Candy.) No. 21,742; Feb. 24; v. 271; p. 684.
Ralston Purina Company, St. Louis, Mo. "Whole Wheat Bread." (For Whole-Wheat Bread.) No. 21,979; Aug. 17; v. 277; p. 583.
Rath, Olive H., Columbus, Ohio. "Hunter Malt." (For a Malt-Syrup.) No. 22,135; Sept. 14; v. 278; p. 365.
Raubs, O. L., Waverly, N. Y. "Special Notice By O. L. Raubs, the Originator of Liquid Instant Coffee." (For Liquid Instant Coffee.) No. 21,765; May 23; v. 272; p. 732.
Ravazula Bros., New York, N. Y. "Ralla." (For Olive-Oil.) No. 22,342; Dec. 7; v. 281; p. 203.
Refinite Company, The, Omaha, Nebr. "Refinite Rival of the Clouds." (For Water-Softening Material.) No. 22,080; Aug. 31; v. 277; p. 977.
Reid Ice Cream Company, New York, N. Y. "Reid's Ice Cream, It's the Best." (For Ice-Cream.) No. 22,174; Oct. 5; v. 279; p. 175.
Remar Company, San Francisco, Calif. "Remar Bread." (For Bread.) No. 22,081; Aug. 31; v. 277; p. 977.
Reno Brewing Co., Inc. (See Nevada Products Company, assignor.)
Retona Products Company, Dayton, Ohio. "Retona." (For Pharmaceutical Preparations—Namely, a Tonic.) No. 22,230; Nov. 9; v. 280; p. 389.
Rhoades, Charles B., Des Moines, Iowa. "Mapl-Kist." (For Confectionery.) No. 21,759; Mar. 2; v. 272; p. 177.
Richmond Chase Company, San Jose, Calif. "Mellow Fruit Brand." (For Canned Peaches.) No. 22,277; Nov. 23; v. 280; p. 807.
Ridgeway Cheese Company, Houston county, Minn. "Ridgeway Brand." (For Brick-Cheese.) No. 21,687; Feb. 3; v. 271; p. 153.
Rieck-McJunkin Dairy Company. (See Menasha Printing and Carton Company, assignor.)
Riegler, Julie H., San Antonio, Tex. "Mexican Pecan Candy." (For Mexican Pecan-Candy.) No. 22,343; Dec. 7; v. 281; p. 203.
Roberts, G. H., San Francisco, Calif. "Roberts Turkey Brand Corned Meats." (For Cooked Corned Meats.) No. 21,834; Apr. 20; v. 273; p. 627.
Robertson, J. T., Company, The, Syracuse, N. Y. "Hospital Carbolic Oil Soap." (For Carbolic-Oil Soap.) No. 22,027; Aug. 24; v. 277; p. 785.
Rock Island Brewing Company, Rock Island, Ill. "Lily." (For a Beverage.) No. 21,636; Jan. 6; v. 270; p. 187.
Rose Valley Company, The, Philadelphia, Pa. "Ideal Music Rolls." (For Music-Rolls.) No. 22,278; Nov. 23; v. 280; p. 807.
Rose Valley Company, The, Philadelphia, Pa. "Temphonized." (For Music-Rolls.) No. 22,279; Nov. 23; v. 280; p. 807.
Rosebeck Company, New York, N. Y. "Eversnap." (For Garment-Fastener.) No. 21,954; Aug. 3; v. 277; p. 180.
Rossi, Peter, & Sons, Braidwood, Ill. "Lincoln Brand Macaroni." (For Macaroni.) No. 22,344; Dec. 7; v. 281; p. 203.
Roth, Joseph S., Carroll township, Washington county, Pa. "Neupro." (For Ginger-Ale.) No. 21,648; Jan. 27; v. 270; p. 618.
Royal Lemon Products Co., St. Paul, Minn. "Royal Lemon." (For a Cleaner.) No. 21,894; June 29; v. 275; p. 1022.
Rumple, Julius, Weston, Mo. "Home Pride." (For Flour.) No. 22,136; Sept. 14; v. 278; p. 366.
Runyan Chemical Products Co., Omaha, Nebr. "Palzo The Great American Cleaner." (For a Cleaner.) No. 21,637; Jan. 6; v. 270; p. 187.
Runyan Chemical Products Co., Omaha, Nebr. "Palzo for Mechanics and Garages." (For a Cleaner.) No. 21,688; Feb. 3; v. 271; p. 153.
Russ Brothers. (See Menasha Printing and Carton Company, assignors.)
Russell & Gilbert Co., Portland, Oreg. "High Jinks." (For Candy.) No. 22,345; Dec. 7; v. 281; p. 203.
Ryan Fruit Co., Seattle, Wash. "Chief Joseph." (For Fresh Fruits.) No. 21,835; Apr. 20; v. 273; p. 627.
Ryan Fruit Co., Seattle, Wash. "100%." (For Oranges.) No. 21,836; Apr. 20; v. 273; p. 627.
Sanburg, R. A., Burlington, Iowa. "Packard Brand, Egyptian Style." (For Butter-Cream Chocolates.) No. 21,922; July 27; v. 276; p. 774.
Saniwax Paper Co., Kalamazoo, Mich. "Mother Goose." (For Bread.) No. 21,743; Feb. 24; v. 271; p. 684.
Saniwax Paper Co., Kalamazoo, Mich. "Baker's Pride." (For Bread.) No. 21,837; Apr. 20; v. 273; p. 627.
Saniwax Paper Co., Kalamazoo, Mich. "Mothers." (For Bread.) No. 22,165; Sept. 21; v. 278; p. 541.
Saniwax Paper Co., Kalamazoo, Mich. "Home Made." (For Bread.) No. 22,166; Sept. 21; v. 278; p. 541.
Saniwax Paper Co., Kalamazoo, Mich. "Milk Maid." (For Bread.) No. 22,167; Sept. 21; v. 278; p. 541.
Sanna Company, Inc., New York, N. Y. "Lion Brand Fresh Whey Cheese." (For Cheese.) No. 22,028; Aug. 24; v. 277; p. 785.
Scheidt, Adam, Brewing Company, Norristown, Pa. "Valley Forge Special." (For Lager-Beer.) No. 22,082; Aug. 31; v. 277; p. 977.
Schrader's, A., Son, Inc., Brooklyn, N. Y. "Schrader Universal Dust Cap." (For Dust-Caps for Tire-Valves.) No. 22,236; Nov. 23; v. 280; p. 806.
Schuler Chocolate Factory, Winona, Minn. "Sugarloaf." (For Candy.) No. 21,895; June 29; v. 275; p. 1022.
Scranton Distributing and Mfg. Co., Scranton, Pa. "Bro-Wal." (For Bitter-Wine Tonic.) No. 21,871; May 25; v. 275; p. 837.
Scudder, Warren W., Binghamton, N. Y. "Eggconomy." (For a Cooking Powder—Namely, a Substitute for Eggs.) No. 22,313; Nov. 30; v. 280; p. 1005.
Schaberg, Henry G., St. Louis, Mo. "The Pontiac." (For Cigars.) No. 22,217; Oct. 12; v. 279; p. 350.
Seal-Fast Mfg. Co., Indianapolis, Ind. "Seal-Fast." (For Repair-Patches for Automobile-Tubes.) No. 22,029; Aug. 24; v. 277; p. 786.
Sgobel and Day, New York, N. Y. "Our Pride." (For Apples.) No. 21,955; Aug. 3; v. 277; p. 180.
Shepard Fruit Products Company, Wenatchee, Wash. "Mrs. Shepard's Fruit Flakes." (For Flaked and Cooked Fruits—Namely, Apples.) No. 21,865; May 11; v. 274; p. 403.
Shine-Easy Shoe Polish Company, Chicago, Ill. "Jetto Black Dye." (For Black Dyes.) No. 21,798; Apr. 13; v. 273; p. 405.
Shine-Easy Shoe Polish Company, Chicago, Ill. "Shine-Easy Shoe Polish." (For Shoe-Polish.) No. 21,799; Apr. 13; v. 273; p. 405.
Shipp, J. L., Washington, Ga. "Orange-Cola." (For Orange-Cola Beverage.) No. 21,872; May 25; v. 275; p. 837.
Shaw Family, Inc., The, San Jose, Calif. "Shaw's." (For Strawberry Jam.) No. 22,168; Sept. 21; v. 278; p. 541.
Shepherd & Cleveland, Chicago, Ill. "All In One Ointment." (For Ointment.) No. 22,169; Sept. 21; v. 278; p. 541.

Digitized by Google

Alphabetical list of registrants of labels—Continued.

Slater, Harry A., Pittsburgh, Pa. "Argonne Cavity Fluid." (For Cavity Fluid.) No. 21,980; Aug. 17; v. 277; p. 583.

Slater, Harry A., Pittsburgh, Pa. "Argonne Embalming Fluid." (For Embalming Fluid.) No. 21,981; Aug. 17; v. 277; p. 583.

Smith, E. A., Tifton, Ga. "Smith's Hand-Made Candy." (For Candy.) No. 21,839; Apr. 20; v. 273; p. 627.

Smith, E. A., Tifton, Ga. "Smith's Hand-Made Candy." (For Candy.) No. 22,030; Aug. 24; v. 277; p. 786.

Sode, E. B. Paper Box Company, Chicago, Ill. "Over the Top." (For a Game.) No. 21,923; July 27; v. 276; p. 774.

Southern California Products Company, Orange, Calif. "Golden Shreds." (For Orange Marmalade.) No. 21,640; Jan. 6; v. 270; p. 187.

Southern Food Products Co., Cincinnati, Ohio. "Roxana Belle Non Alcoholic Imitation Scuppernong-Wine." (For Roxana Belle Imitation Scuppernong-Wine.) No. 21,896; June 29; v. 275; p. 1022.

Southern Food Products Co., Cincinnati, Ohio. "Bully Boy Cordial Apricot Flavor." (For a Non-Alcoholic Drink.) No. 22,031; Aug. 24; v. 277; p. 786.

Southern Food Products Co., Cincinnati, Ohio. "Roxana Ginger Cordial." (For Ginger-Cordial.) No. 22,083; Aug. 31; v. 277; p. 978.

Sparks Milling Company, Alton, Ill., and Terre Haute, Ind. "Sparks Flour." (For Self-Rising Flour.) No. 22,084; Aug. 31; v. 277; p. 978.

Spennetta, Jesse D., Orange, Calif. "Grey Wolf." (For Oranges.) No. 22,365; Dec. 14; v. 281; p. 409.

Spierson Bros., Pittston, Pa. "Yankee Nut Creams." (For Candy.) No. 21,744; Feb. 24; v. 271; p. 684.

St. Joe Canning Co., St. Joseph, Mich. "Shipmate." (For Canned Strawberries.) No. 21,638; Jan. 6; v. 270; p. 187.

St. Joe Canning Co., St. Joseph, Mich. "Trisum." (For Canned Strawberries.) No. 21,639; Jan. 6; v. 270; p. 187.

St. Joe Canning Co., St. Joseph, Mich. "Miracle." (For Canned Peaches.) No. 21,956; Aug. 3; v. 277; p. 180.

Staehle, Louis L., Newark, N. J. "Essex Poisoned Wheat." (For Poisoned Food for Rats, Mice, &c.) No. 22,170; Sept. 21; v. 278; p. 541.

Standard Export-Cigarette Corporation, New York, N. Y. "Standix." (For Cigarettes.) No. 21,689; Feb. 3; v. 271; p. 154.

Standard Export-Import Co. Ltd., Stavanger, Norway. "Seaside." (For Canned Sardines.) No. 21,649; Jan. 27; v. 270; p. 618.

Steele Packing Co., San Diego, Calif. "Kenilworth." (For Canned Tomatoes.) No. 21,641; Jan. 6; v. 270; p. 187.

Steiner, Emil E., Everett, Wash. "Drink Mixo." (For a Health-Drink Syrup.) No. 22,085; Aug. 31; v. 277; p. 978.

Steiner, Emil E., Everett, Wash. "Drink Steino." (For a Health-Drink Syrup.) No. 22,086; Aug. 31; v. 277; p. 978.

Steiner, Emil E., Everett, Wash. "Drink Vivo." (For a Health-Drink Syrup.) No. 22,087; Aug. 31; v. 277; p. 978.

Steiner Manufacturing Company, Long Island City, N. Y. "Steiner Hydrokit." (For Hydrometer Apparatus.) No. 22,346; Dec. 7; v. 281; p. 203.

Sterick, Harrison D., Pittsburgh, Pa. "B. O. K. Malt Extract." (For Malt Extract.) No. 22,347; Dec. 7; v. 281; p. 203.

Sterling Pin Company, Derby, Conn. "Bird Design." (For Cartons Containing Hairpins.) No. 22,137; Sept. 14; v. 278; p. 366.

Sterling Pin Company, Derby, Conn. "Rose Design." (For Cartons Containing Hairpins.) No. 22,280; Nov. 23; v. 280; p. 807.

Stock Yards Poultry Supply Co., Kansas City, Mo. "More Egg Mash." (For a Box Containing Food for Poultry.) No. 22,218; Oct. 12; v. 279; p. 350.

Strauss, Max, New York, N. Y. "Luminette." (For Silk Piece Goods.) No. 22,088; Aug. 31; v. 277; p. 978.

Super-Shine Polish Company, Santa Barbara, Calif. "Super-Shine the Peer of All Automobile and Furniture Polish." (For Automobile and Furniture Polish.) No. 22,281; Nov. 23; v. 280; p. 807.

Sweet-Odor-Home Company, San Francisco, Calif. "Sweet-Odor-Home." (For Liquid Deodorant.) No. 22,171; Sept. 21; v. 278; p. 541.

Sylpho-Napthol Company, The, Boston, Mass. "Sylpho-Nathol." (For a Disinfectant.) No. 22,371; Dec. 28; v. 281; p. 788.

Systona Remedy Co., Columbus, Ga. "Systona Laxative Constructive Digestive Tonic." (For Bottles Containing the Medicine.) No. 22,219; Oct. 12; v. 279; p. 350.

Taves, C. W., Company, Chicago, Ill. "Manhattan." (For Hosiery.) No. 22,089; Aug. 31; v. 277; p. 978.

Thomason, J. A., & Co., Atlanta, Ga. "Thomason's Motor Life." (For a Gas-Saver, Carbon-Remover, and Lubricant for Any Style of Gasolene Explosive-Engine.) No. 22,090; Aug. 31; v. 277; p. 978.

Thompson, John R., Co., Chicago, Ill. "Thompson's." (For Pure Food Products.) No. 22,032; Aug. 24; v. 277; p. 786.

Tip-It, (Inc.,) New York, N. Y. "Tip It, Patent Welding Compound. Permanent Weld Guaranteed." (For Welding Compounds.) No. 21,642; Jan. 6; v. 270; p. 187.

Tolivar, C. R., Beaumont, Tex. "Grape-Cola." (For a Soft Drink.) No. 21,745; Feb. 24; v. 271; p. 684.

Underwood, William, Company, Boston, Mass. "Underwood's Sardines in Mustard Dressing." (For Sardines.) No. 21,800; Apr. 13; v. 273; p. 405.

Underwood, William, Company, Boston, Mass. "Underwood's Sardines in Oil." (For Sardines.) No. 21,801; Apr. 13; v. 273; p. 405.

Underwood, William, Company, Boston, Mass. "Underwood's Sardines in Pure Olive Oil." (For Sardines in Pure Olive-Oil.) No. 22,284; Nov. 23; v. 280; p. 807.

Underwood, William, Company, Boston, Mass. "Underwood Sardines in Tomato Sauce." (For Sardines in Tomato Sauce.) No. 22,285; Nov. 23; v. 280; p. 807.

United American Trading Co., The, San Francisco, Calif. "13 Soap Unlucky For Dirt." (For Soap.) No. 22,091; Aug. 31; v. 277; p. 978.

United Manufacturing & Distributing Company, Chicago, Ill. "United Spark Plug." (For Spark-Plugs.) No. 21,746; Feb. 24; v. 271; p. 684.

University Heights Farms Co., Darby, Mont. "Favorite Brand Apples." (For Apples.) No. 22,033; Aug. 24; v. 277; p. 786.

Utah Condensed Milk Co., San Francisco, Calif. "Richmond." (For Evaporated Milk, Unsweetened.) No. 21,897; June 29; v. 275; p. 1022.

V. V. B. Company, The, Denver, Colo. "Victory Vapor Balm." (For a Medicine.) No. 21,749; Feb. 24; v. 271; p. 684.

Valley Fruit Co. Inc., Walla Walla, Wash. "Valley Brand." (For Fresh Apples.) No. 21,982; Aug. 17; v. 277; p. 583.

Van Buskirk, H., Seed Co., Rocky Ford, Colo. "Salmotinto." (For Cantaloup-Seed.) No. 22,145; Sept. 21; v. 278; p. 541.

Van Camp Packing Company, The, Indianapolis, Ind. "Van Camp's Ginger Ale." (For Ginger-Ale.) No. 21,747; Feb. 24; v. 271; p. 684.

Van Camp Packing Company, The, Indianapolis, Ind. "Van Camp's Salted Peanuts." (For Salted Peanuts.) No. 21,748; Feb. 24; v. 271; p. 684.

Van Dyke, William L., Tampa, Fla. "Usacuba." (For Cigars.) No. 22,138; Sept. 14; v. 278; p. 366.

Victory Canning & Packing Company, Los Angeles, Calif. "Victory Canning & Packing Cos. Barnd." (For Canned Artichokes.) No. 22,034; Aug. 24; v. 277; p. 786.

Vogt, F. G., & Sons, Incorporated, Philadelphia, Pa. "Vogt's Philadelphia Scrapple." (For Scrapple.) No. 21,802; Apr. 13; v. 273; p. 405.

Walker-Matteson Co., Joliet, Ill. "Armory Brand." (For Canned Food Products.) No. 21,803; Apr. 13; v. 273; p. 405.

Walker-Matteson Company, Joliet, Ill. "Armory Brand." (For Various Items of Dried Products—Namely, Apricots, Peaches, Prunes, and Plums.) No. 21,898; June 29; v. 275; p. 1022.

Waller, Herman S., Chicago, Ill. "Waller's Headache and Neuralgia Relief." (For Headache-Powders.) No. 22,314; Nov. 30; v. 280; p. 1005.

Walters, Henry V., Long Branch, N. J. "Some!!!" (For Cakes.) No. 22,139; Sept. 14; v. 278; p. 366.

Walton Milling Company, Lansing, Mich. "Walton's Searchlight Wheat Hearts." (For Cereal Food—Namely, Wheat Hearts.) No. 21,840; Apr. 20; v. 273; p. 627.

Ward Baking Company, New York, N. Y. "Ward's De Luxe Cakes." (For Cakes.) No. 21,899; June 29; v. 275; p. 1022.

Ward Baking Company, New York, N. Y. "The Signature of Ward Certifies Quality—Purity—Cleanliness." (For Bread.) No. 22,348; Dec. 7; v. 281; p. 203.

Ward Baking Company, New York, N. Y. "Ward Baking Company Far-Famed Bread and Cakes." (For Bread and Cakes.) No. 22,349; Dec. 7; v. 281; p. 203.

Washer Maid Company, The, Chicago, Ill. "Washer Maid." (For Soap.) No. 21,852; Apr. 27; v. 273; p. 806.

Waterman, L. E. Company, New York, N. Y. "Waterman's Ideal Ink." (For Waterman's Ideal Ink.) Nos. 22,096–9; Sept. 7; v. 278; p. 162.

Weber-Schlitz Candy Company, Milwaukee, Wis. "Jack-O-Dandy." (For Candies — Namely, Suckers.) No. 21,841; Apr. 20; v. 273; p. 627.

Weiser Air Storage Co., Weiser, Idaho. "Overland." (For Apples.) No. 21,804; Apr. 13; v. 273; p. 405.

Welch, E. M., Cleveland, Ohio. "Latapep." (For a Medicinal Tonic.) No. 21,775; Apr. 6; v. 273; p. 183.

Welch Grape Juice Company, The, Westfield, N. Y. "Cherrilade." (For a Spread for Bread, &c.) No. 21,690; Feb. 3; v. 271; p. 154.

Welch Grape-Juice Company, The, Westfield, N. Y. "Fruitlade." (For a Spread for Bread, &c.) No. 21,691; Feb. 3; v. 271; p. 154.

Welch Grape-Juice Company, The, Westfield, N. Y. "Welch's Apple Butter." (For Apple-Butter.) No. 21,692; Feb. 3; v. 271; p. 154.

Welch Grape Juice Company, The, Westfield, N. Y. "Plumlade." (For a Spread.) No. 21,751; Feb. 24; v. 271; p. 684.

Digitized by Google

Welch Grape Juice Company, The, Westfield, N. Y. "Peachlade." (For Bread, Toast, and Muffins.) No. 21,842; Apr. 20; v. 273; p. 627.
Welch Grape Juice Company, The, Westfield, N. Y. "Graplade." (For a Spread for Bread, Toast, and Biscuit.) No. 21,843; Apr. 20; v. 273; p. 627.
Welch Grape Juice Company, The, Westfield, N. Y. "Welch-Apl." (For a Non-Alcoholic Beverage Consisting of Apple Syrup and Carbonated Water.) No. 21,866; May 11; v. 274; p. 403.
Well-Maid Confection Co. Inc., New York, N. Y. "Well-Maid Pnut Britl." (For Peanut Brittle.) No. 21,750; Feb. 24; v. 271; p. 684.
Wellman, Peck & Co., San Francisco, Calif. "Wellman Foods—Quality for 70 Years." (For Canned Peaches.) No. 22,366; Dec. 14; v. 281; p. 409.
West, Augustus A., Philadelphia, Pa. "The Vanity Hair Net." (For Hair-Nets.) No. 21,900; June 29; v. 275; p. 1022.
West, Augustus A., Philadelphia, Pa. "Chevonet Hair Net." (For Hair-Nets.) No. 21,901; June 29; v. 275; p. 1022.
West, Augustus A., Philadelphia, Pa. "West Gold Seal Hair Net." (For Hair-Nets.) No. 21,902; June 29; v. 275; p. 1022.
West, Augustus A., Philadelphia, Pa. "La Belle Hair Net." (For Hair-Nets.) No. 22,035; Aug. 24; v. 277; p. 786.
West, Augustus A., Philadelphia, Pa. "Magic Hair Curlers." (For Applied or Fastened Hair-Curlers.) Nos. 22,172–3; Sept. 21; v. 278; p. 541.
West, Augustus A., Philadelphia, Pa. "Please-All." (For Hair-Nets.) No. 22,372; Dec. 28; v. 281; p. 788.
West, Augustus A., Philadelphia, Pa. "The Debutante Hair Net." (For Hair-Nets.) No. 22,373; Dec. 28; v. 281; p. 788.
West, Augustus A., Philadelphia, Pa. "Slipova Hair Nets." (For Hair-Nets.) No. 22,374; Dec. 28; v. 281; p. 788.
West, Augustus A., Philadelphia, Pa. "Defender-Net." (For Hair-Nets.) No. 22,375; Dec. 28; v. 281; p. 788.
Western Elaterite Roofing Company, Denver, Colo. "Indian Rubber Roofing." (For Rubber Roofing.) No. 21,752; Feb. 24; v. 271; p. 684.
Western Elaterite Roofing Company, The, Denver, Colo. "Buffalo Rubber Roofing." (For Rolls of Elaterite Roofing.) No. 22,282; Nov. 23; v. 280; p. 807.
Western Malt Products Co., Pueblo, Colo. "Red Seal." (For Malt Syrup.) No. 21,833; Apr. 20; v. 273; p. 627.
Wetterer, Joseph, New York, N. Y. "Mor-Hair." (For a Remedy for Dandruff.) No. 22,092; Aug. 31; v. 277; p. 978.
White, A. J., Limited, New York, N. Y. "Kerchette's." (For Medicated Paper Handkerchiefs.) No. 22,176; Oct. 12; v. 279; p. 349.
White & Wyckoff Mfg. Co., Holyoke, Mass. "Heather Lawn." (For Stationery.) No. 21,644; Jan. 6; v. 270; p. 187.
White & Wyckoff Mfg. Co., Holyoke, Mass. "Martha Washington." (For Boxes of Stationery and Writing-Tablets.) No. 22,140; Sept. 14; v. 278; p. 366.
Wigwam Co. Inc., The Syracuse, N. Y. "Put-Over-All." (For Overalls.) No. 22,036; Aug. 24; v. 277; p. 786.
Williams, Wm. H., Co., The, Greenville, Ohio. "Delaine." (For Toilet-Paper.) No. 21,924; July 27; v. 276; p. 774.
Williamson, Artie Lee, Long Beach, Calif. "The Jewel Hair Grower." (For Hair-Tonic or Hair-Grower.) No. 22,283; Nov. 23; v. 280; p. 807.
Wilson, J. G., Corporation, The, Norfolk, Va. "Painting for Light." (For Paints.) No. 22,038; Aug. 24; v. 277; p. 786.
Wilson, J. G., Corporation, The, Norfolk, Va. "Diffuse-Fit Trousers." (For Men's Trousers.) No. 22,040; Aug. 24; v. 277; p. 786.
Windholz, Charles A., Syracuse, N. Y. "Pargo Brand Sweet Corn." (For Cans Containing Sweet Corn.) No. 21,873; June 8; v. 275; p. 418.
Windsor Locks Macaroni Mfg. Co., Windsor Locks, Conn. "Victory Star Brand Macaroni." (For Macaroni.) No. 21,645; Jan. 6; v. 270; p. 187.
Winget Manufacturing Co., The, Minneapolis, Minn. "Nell Winget Home Frocks." (For House-Dresses.) No. 22,315; Nov. 30; v. 280; p. 1005.
Wisnewski, Frank, Edwardsville, Pa. "Tria Loaf." (For Bread.) No. 21, 693; Feb. 3; v. 271; p. 154.
Witter, John H., Newmanstown, Pa. "Dolly Madison." (For Cigars.) No. 22,234; Nov. 16; v. 280; p. 587.
Wolf & Bird, San Francisco, Calif. "Red-White and Blue Brand." (For Vanilla Extract.) No. 21,694; Feb. 3; v. 271; p. 154.
Wonder Polish Company, The, Kansas City, Mo. "The Wonder Polish." (For a Polish.) No. 21,753; Feb. 24; v. 271; p. 684.
Woolworth, F. W., Co., New York, N. Y. "Woolco." (For Snap-Fasteners.) No. 22,376; Dec. 28; v. 281; p. 788.
Worden, R. F., & Sons. (See Menasha Printing and Carton Company, assignor.)
Worden, R. F., & Sons. (See Menasha Printing and Carton Company, assignor.)
Workman Packing Company, San Francisco, Calif. "I. X. L." (For Macaroni Sauce.) No. 21,754; Feb. 24; v. 271; p. 684.
Wright, James E. M., Portsmouth, Va. "Great Generals." (For Cut Smoking-Tobacco and Cigars.) No. 22,039; Aug. 24; v. 277; p. 786.
Wright, Richard B., East Islip, N. Y. "Wright's Mouse Killer, not a poison." (For a Non-Poisonous Powder for Killing Rats and Mice.) No. 21,776; Apr. 6; v. 273; p. 183.
Yarn Clearing House, New York, N. Y. "Superyarn." (For Yarn.) No. 21,838; Apr. 20; v. 273; p. 627.
York Chocolate Company, York, Pa. "Swiss-Alpine Style Sweet Milk Chocolate." (For Sweet Chocolate.) No. 21,867; May 11; v. 274; p. 403.
Young, Chas. W., & Co., Philadelphia, Pa. "Young's Soap Flakes." (For Soap Flakes.) No. 21,755; Feb. 24; v. 271; p. 684.
Young, Chas. W., & Co., Philadelphia, Pa. "If It's Young's It's Safe." (For Soap Flakes.) No. 21,756; Feb. 24; v. 271; p. 684.
Young, Chas. W., & Co., Philadelphia, Pa. "Young's Hand Soap—If It's Young's It's Safe." (For Soap.) No. 22,350; Dec. 7; v. 280; p. 203.
Yucaipa Apple Growers' Association, Yucaipa, Calif. "U-Ki-Pa." (For Apples.) No. 21,757; Feb. 24; v. 271; p. 684.
Zarparines, George, Sherman, Tex. "Senirap." (For Candy.) No. 21,758; Feb. 24; v. 271; p. 684.
Zirkle, Charles T., Portland, Oreg. "Our Home-Made." Aug. 24; v. 277; p. 786.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Abbott, A. Theo., & Co., Philadelphia, Pa. "Long Life Colors." (For Decorative Fabrics.) No. 5,237; Mar. 2; v. 272; p. 177.
Acme Shear Company, The, Bridgeport, Conn. "For the Little Folks." (For Scissors and Shears.) No. 5,276; Aug. 3; v. 277; p. 180.
Adels-Ribakoff Co. Inc., New York, N. Y. "Watches That Run." (For Watches.) No. 5,266; July 20; v. 276; p. 594.
Affa Specialty Co., Worcester, Mass. "Folding Table." (For Collapsible Tables.) No. 5,199; Feb. 3; v. 271; p. 154.
American Druggists Syndicate, Long Island City, N. Y. "A. D. S. Peredixo Cream." (For Face and Skin Cream.) Nos. 5,412–13; Dec. 7; v. 281; p. 204.
American Druggists Syndicate, Long Island City, N. Y. "A. D. S. Milk of Magnesia." (For Milk of Magnesia.) Nos. 5,414–15; Dec. 7; v. 281; p. 204.
American Druggists Syndicate, Long Island City, N. Y. "A. D. S. Hepatic Salts." (For Uric-Acid Solvent.) No. 5,416; Dec. 7; v. 281; p. 204.
American Lead Pencil Company, New York, N. Y. "The Largest Selling Quality Pencil in the World." (For Lead-Pencils.) Nos 5,336–8; Sept. 14; v. 278; p. 366.
American Narrow Fabric Co., Providence, R. I. "American Brand Shoe Laces." (For Shoe-Laces.) No. 5,387; Nov. 30; v. 280; p. 1006.
American Walnut Manufacturers Association, Chicago, Ill. "American Walnut." (For Walnut Wood.) No. 5,417; Dec. 7; v. 281; p. 204.
Aromint Manufacturing Company, Cincinnati, Ohio. "Willie Pep." (For Candy Aromints.) No. 5,213; Feb. 24; v. 271; p. 685.
Associated Silver Company, Chicago, Ill. "'Yourex,' The Silver Plated Knives." (For Silver-Plated Knives.) No. 5,275; Aug. 3; v. 277; p. 180.
B. V. D. Company, The, New York, N. Y. "Wear B. V. D. On Your Vacation." (For Athletic Underwear.) No. 5,194; Jan. 27; v. 270; p. 618.
B. V. D. Company, The, New York, N. Y. "Wear B. V. D. To Work!" (For Athletic Underwear.) No. 5,201; Feb. 3; v. 271; p. 154.
B. V. D. Company, The, New York, N. Y. "Wear B. V. D. On Your Vacation." (For Athletic Underwear.) No. 5,202; Feb. 3; v. 271; p. 154.
B. V. D. Company, The, New York, N. Y. "Wear B. V. D. To The Dinner Party." (For Athletic Underwear.) No. 5,203; Feb. 3; v. 271; p. 154.
B. V. D. Company, The, New York, N. Y. "Wear B. V. D. 'On The Job'!" (For Athletic Underwear.) No. 5,204; Feb. 3; v. 271; p. 154.
B. V. D. Company, The, New York, N. Y. "Wear B. V. D. To The Beach!" (For Athletic Underwear.) No. 5,205; Feb. 3; v. 271; p. 154.

Digitized by Google

Alphabctical list of registrants of prints—Continued.

B. V. D. Company, The, New York, N. Y. "Wear B. V. D. To The Lawn Party!" (For Athletic Underwear.) No. 5,206; Feb. 3; v. 271; p. 154.
B. V. D. Company, The, New York, N. Y. "Wear B. V. D. To Your Club!" (For Athletic Underwear.) No. 5,207; Feb. 3; v. 271; p. 154.
B. V. D. Company, The, New York, N. Y. "Wear B. V. D. To The Theater!" (For Athletic Underwear.) No. 5,208; Feb. 3; v. 271; p. 154.
B. V. D. Company, The, New York, N. Y. "Wear B. V. D. To Work!" (For Athletic Underwear.) No. 5,209; Feb. 3; v. 271; p. 154.
B. V. D. Company, The, New York, N. Y. "Wear B. V. D. To The Beach!" (For Athletic Underwear.) No. 5,210; Feb. 3; v. 271; p. 154.
B. V. D. Company, The, New York, N. Y. "Wear B. V. D. 'On The Job'!" (For Athletic Underwear.) No. 5,211; Feb. 3; v. 271; p. 154.
B. V. D. Company, The, New York, N. Y. "Wear B. V. D. To The Theater." (For Underwear.) No. 5,215; Feb. 24; v. 271; p. 685.
B. V. D. Company, The, New York, N. Y. "Wear B. V. D. To The Dinner Party." (For Underwear.) No. 5,216; Feb. 24; v. 271; p. 685.
B. V. D. Company, The, New York, N. Y. "Wear B. V. D. To Your Club." (For Underwear.) No. 5,217; Feb. 24; v. 271; p. 685.
B. V. D. Company, The, New York, N. Y. "Wear B. V. D. To The Lawn Party." (For Underwear.) No. 5,218; Feb. 24; v. 271; p. 685.
B. V. D. Company, The, New York, N. Y. "Wear B. V. D. On Your Business Trip." (For Underwear.) Nos. 5,219–20; Feb. 24; v. 271; p. 685.
B. V. D. Company, The, New York, N. Y. "B. V. D. 1919 Men's Two Piece Suit." (For Underwear.) No. 5,221; Feb. 24; v. 271; p. 685.
B. V. D. Company, The, New York, N. Y. "Long Wear." (For Athletic Underwear.) No. 5,340; Sept. 14; v. 278; p. 366.
B. V. D. Company, The, New York, N. Y. "Economy." (For Athletic Underwear.) No. 5,354; Sept. 21; v. 278; p. 542.
B. V. D. Company, The, New York, N. Y. "Long Wear." (For Athletic Underwear.) No. 5,368; Oct. 12; v. 279; p. 350.
B. V. D. Company, The, New York, N. Y. "Leadership." (For Athletic Underwear.) No. 5,369; Oct. 12; v. 279; p. 350.
Basket Stores Company, Omaha, Nebr. "Live Better for Less." (For Food Products.) No. 5,200; Feb. 3; v. 271; p. 154.
Beech-Nut Packing Company, Canajoharie, N. Y. "Handy Candy Sweet Birches." (For Candies.) No. 5,277; Aug. 3; v. 277; p. 180.
Beech-Nut Packing Company, Canajoharie, N. Y. "Handy Candy Wintergreens." (For Candy.) No. 5,281; Aug. 10; v. 277; p. 393.
Beech-Nut Packing Company, Canajoharie, N. Y. "Handy Candy Lemon Drops." (For Candy.) No. 5,282; Aug. 10; v. 277; p. 393.
Beech-Nut Packing Company, Canajoharie, N. Y. "Handy Candy Lime Drops." (For Candy.) No. 5,283; Aug. 10; v. 277; p. 393.
Beech-Nut Packing Company, Canajoharie, N. Y. "Handy Candy Cinnamons." (For Candies.) No. 5,284; Aug. 10; v. 277; p. 393.
Beech-Nut Packing Company, Canajoharie, N. Y. "Handy Candy Mints." (For Candy Mints.) No. 5,318; Aug. 31; v. 277; p. 978.
Beech-Nut Packing Company, Canajoharie, N. Y. "Handy Candy Caramels." (For Handy Candy Caramels.) No. 5,334; Sept. 7; v. 278; p. 162.
Beech-Nut Packing Company, Canajoharie, N. Y. "Handy Candy Cloves." (For Candy-namely, Cloves.) No. 5,352; Sept. 21; v. 278; p. 542.
Beech-Nut Packing Company, Canajoharie, N. Y. "Handy Candy Licorice." (For Candy—namely, Licorice.) No. 5,353; Sept. 21; v. 278; p. 542.
Beech-nut Packing Company, Canajoharie, N. Y. "Handy Candy Horehound Drops." (For Candies.) No. 5,378; Nov. 23; v. 280; p. 807.
Beech-Nut Packing Co., Canajoharie, N. Y. "Hey Skinnay, C'mon Over." (For Peanut-Butter.) No. 5,388; Nov. 30; v. 280; p. 1006.
Beech-Nut Packing Company, Canajoharie, N. Y. "Handy Candy Anise Drop." (For Candy.) No. 5,389; Nov. 30; v. 280; p. 1006.
Beech-Nut Packing Co., Canajoharie, N. Y. "Beech-Nut Brand Peanut Butter." (For Peanut-Butter.) No. 5,390; Nov. 30; v. 280; p. 1006.
Beech-Nut Packing Co., Canajoharie, N. Y. "Beech-Nut Brand Peanut Butter." (For Beech-Nut Brand Peanut-Butter.) No. 5,418; Dec. 7; v. 281; p. 204.
Beech-Nut Packing Co., Canajoharie, N. Y. "First down—Four to feed." (For Beech-Nut Brand Peanut-Butter.) No. 5,419; Dec. 7; v. 281; p. 204.
Beech-Nut Packing Co., Canajoharie, N. Y. "Don't you wish't you had some Beech-Nut Peanut Butter?" (For Beech-Nut Brand Peanut-Butter.) No. 5,420; Dec. 7; v. 281; p. 204.
Beech-Nut Packing Co., Canajoharie, N. Y. "A Hundred and One Recipes with Beech-Nut Peanut Butter." (For Beech-Nut Brand Peanut-Butter.) No. 5,421; Dec. 7; v. 281; p. 204.
Beech-Nut Packing Co., Canajoharie, N. Y. "Some picnic we'll say." (For Beech-Nut Brand Peanut-Butter.) No. 5,422; Dec. 7; v. 281; p. 204.
Bennett, Jacob, Inc., Norfolk, Va. "Bankers' Diamond Selection Service." (For Diamonds.) No. 5,240; Apr. 13; v. 278; p. 406.
Biscuit & Cracker Manufacturers' Association, New York, N. Y. "At Every Meal Eat Cookie-Cakes and Crackers." (For Cookie-Cakes and Crackers.) No. 5,366; Oct. 12; v. 279; p. 350.
Black & Decker Manufacturing Co., The, Baltimore, Md. "With the Pistol Grip and Trigger Switch." (For Portable Electric Drills and Electric Valve-Grinders.) No. 5,423; Dec. 7; v. 281; p. 204.
Boal's Rolls Corporation, New York, N. Y. "Boal's Rolls." (For Edible Fruit Rolls Containing a Laxative.) No. 5,214; Feb. 24; v. 271; p. 685.
Boston Confectionery Company, Cambridge, Mass. "It Simply isn't Christmas without Sparrows." (For Confectionery.) No. 5,339; Sept. 14; v. 278; p. 366.
Boston Confectionery Company, Cambridge, Mass. "Encore." (For Confectionery—Namely, Chocolates.) No. 5,367; Oct. 15; v. 279; p. 350.
Boston Confectionery Company, Cambridge, Mass. "The Forget-Me-Not of Sweets." (For Confectionery—Namely, Chocolates.) No. 5,379; Nov. 23; v. 280; p. 807.
Bradley, H. E., Co., Minneapolis, Minn. "Courtesy of the Road." (For Traffic-Semaphores.) No. 5,371; Oct. 12; v. 279; p. 350.
Braender Rubber & Tire Co., Rutherford, N. J. "The Tyre to Tie To." (For Tires and Tubes.) No. 5,187; Jan. 6; v. 270; p. 187.
Brokaw-Eden Company, Alton, Ill., assignor to Gillespie-Eden Corporation. "I'll Say My Wife Will Have an Eden Next Wash Day." (For Washing-Machines.) No. 5,424; Dec. 7; v. 281; p. 204.
Crouse-Hinds Co., Syracuse, N. Y. "You Will Not Regret It—If You Condulet It." (For Condulets.) No. 5,292; Aug. 24; v. 277; p. 786.
Caldwell Manufacturing Company, The, Columbus, Ohio. "Where Shall We Put the Baby?" (For Baby-Cribs.) No. 5,380; Nov. 23; v. 280; p. 807.
Canale, D., & Co., Inc., Memphis, Tenn. "Indian Wine." (For a Non-Alcoholic Beverage.) No. 5,222; Feb. 24; v. 271; p. 685.
Cream of Wheat Co., Minneapolis, Minn. "That's It—The Breakfast Food of the Nation." (For Cream of Wheat.) No. 5,381; Nov. 23; v. 280; p. 807.
Cream of Wheat Co., Minneapolis, Minn. "Mammy's Beau." (For Wheat Breakfast Food.) No. 5,433; Dec. 14; v. 281; p. 409.
Cream of Wheat Co., Minneapolis, Minn. "Little Indian—Sioux or Crow." (For Cream of Wheat.) No. 5,434; Dec. 14; v. 281; p. 409.
Crook, Harry P., Jr., Baltimore, Md. "Your Skill Your Station." (For Miniature Railroad Skill Game.) No. 5,376; Nov. 9; v. 280; p. 389.
Cunningham, John A., & Co., Attleboro, Mass. "The Snappy Link." (For Cuff-Links.) No. 5,341; Sept. 14; v. 278; p. 366.
Daniel Hays Company, The, Gloversville, N. Y. "Hays Gloves." (For Leather Gloves.) No. 5,287; Aug. 17; v. 277; p. 583.
Derryvale Linen Company, New York, N. Y. "Derryvale." (For Linen Piece Goods.) No. 5,189; Jan. 6; v. 270; p. 187.
Detmer Woolen Co., New York, N. Y. "Come in Let Us Show You Detmer University Novelties, Latest Suitings." (For Detmer Woolens.) No. 5,342; Sept. 14; v. 278; p. 366.
Detmer Woolen Co., New York, N. Y. "Come In—Let us show you Detmer University Novelties, Latest Suitings." (For Detmer Woolens.) No. 5,365; Sept. 21; v. 278; p. 542.
Economy Ink Company, The, Cincinnati, Ohio. "Make Your Own Ink." (For a Powdered Ink.) No. 5,293; lite." (For Paints.) No. 22,037; Aug. 24; v 277;
Fairbank, N. K., Company, The, Chicago, Ill. "The glory of a woman is her skin." (For Toilet Soap.) No. 5,190; Jan. 6; v. 270; p. 187.
Fairbank, N. K., Company, The, Chicago, Ill. "One of the few things 5 cents will buy—Gold Dust." (For Washing-Powder.) No. 5,267; July 27; v. 276; p. 774.
Fairbank, N. K., Company, The, Chicago, Ill. "Gold Dust—A Real Help at Preserving Time." (For Washing-Powder.) No. 5,294; Aug. 24; v. 277; p. 786.
Farnum, James L., Columbus, Ohio. "Laxatoids." (For Laxative Cathartic.) No. 5,259; June 29; v. 275; p. 1022.
Floyd Wells Co., The, Royersford, Pa. "Good-Bye Old Blacking Brush." (For Ranges.) No. 5,425; Dec. 7; v. 281; p. 204.
Franklin Clothing Mfg. Co., St. Louis, Mo. "Franklin Fashions." (For Men's Suits and Pants.) No. 5,382; Nov. 23; v. 280; p. 807.
Franklin, Joseph A., Chicago, Ill. "Shot." (For Non-Alcoholic Beverage.) No. 5,356; Sept. 21; v. 278; p. 542.
Franklin, Joseph A., Chicago, Ill. "The Drink With a Tickle for a Nickle." (For a Non-Alcoholic Beverage.) No. 5,357; Sept. 21; v. 278; p. 542.
Fuld, William, Baltimore, Md. "Ouija." (For a Talking-Board.) No. 5,358; Sept 21; v. 278; p. 542.

Digitized by Google

Garrett and Company, Incorporated, Penn Yan, N. Y. "Virginia Dare 'Agrees with the Constitution.'" (For Non-Intoxicating Wine.) No. 5,319; Aug. 31; v. 277; p. 978.

Genesee Pure Food Company, The, Le Roy, N. Y. "The Order Pad." (For Jell-O.) No. 5,426; Dec. 7; v. 281; p. 204.

Genesee Pure Food Company, The, Le Roy, N. Y. "The Account Books." (For Jell-O.) No. 5,427; Dec. 7; v. 281; p. 204.

Goodyear Tire & Rubber Co., The, Akron, Ohio. "Goodyear Tires Give Good Wear." (For Elastic Vehicle-Tires.) No. 5,370; Oct. 12; v. 279; p. 350.

Graham, Percy, Chicago, Ill. "Graham Beauty Secret." (For a Preparation for Cleansing the Skin.) No. 5,268; July 27; v. 276; p. 774.

Grant, J. C., Chemical Co., East St. Louis, Ill. "Starting Right! Bon Bon never disappoints." (For Baking-Powder.) No. 5,256; May 11; v. 274; p. 403.

Great Southern Producing & Refining Co., Indianapolis, Ind. "Samson Motor Fuel." (For Motor-Fuel.) No. 5,195; Jan. 27; v. 270; p. 618.

Grennan Cake Corporation, Chicago, Ill.; Cleveland, Ohio; Detroit, Mich.; St. Paul and Minneapolis, Minn. "Every Bite a Delight." (For Cakes.) No. 5,320; Aug. 31; v. 277; p. 978.

Haley, E. E., Richmond, Va. "Virginia Fairy or Lucky Stone Co." (For Virginia Fairy or Lucky Stones.) No. 5,245; Apr. 20; v. 273; p. 628.

Harter Candy Co., The, Toledo, Ohio. "Sweetheart Chocolates." (For Candy.) No. 5,285; Aug. 10; v. 277; p. 393.

Haynes Automobile Company, The, Kokomo, Ind. "Four Factors of Character In The New Series Haynes." (For Automobiles.) No. 5,223; Feb. 24; v. 271; p. 685.

Haynes Automobile Company, The, Kokomo, Ind. "The New Series Haynes Posesses Four Vital Tractors." (For Automobiles.) No. 5,246; Apr. 20; v. 273; p. 628.

Haynes Automobile Company, The, Kokomo, Ind. "The Haynes Sedan." (For Automobiles.) No. 5,247; Apr. 20; v. 273; p. 628.

Haynes Automobile Company, The, Kokomo, Ind. "The New 1920 Haynes Touring Car." (For Automobiles.) No. 5,295; Aug. 24; v. 277; p. 786.

Haynes Automobile Company, The, Kokomo, Ind. "The New Series Haynes Brougham." (For Automobiles.) Nos. 5,296–7; Aug. 24; v. 277; p. 786.

Haynes Automobile Company, The, Kokomo, Ind. "The New 1920 Haynes Roadster." (For Automobiles.) No. 5,298; Aug. 24; v. 277; p. 786.

Haynes Automobile Company, The, Kokomo, Ind. "The New Series Haynes Coupé." (For Automobiles.) No. 5,299; Aug. 24; v. 277; p. 786.

Haynes Automobile Company, The, Kokomo, Ind. "The New Series Haynes Suburban." (For Automobiles.) No. 5,300; Aug. 24; v. 277; p. 786.

Haynes Automobile Company, The, Kokomo, Ind. "The New Series Haynes Coupé." (For Automobiles.) No. 5,301; Aug. 24; v. 277; p. 786.

Haynes Automobile Company, The, Kokomo, Ind. "The New 1920 Haynes Touring Car." (For Automobiles.) No. 5,302; Aug. 24; v. 277; p. 786.

Haynes Automobile Company, The, Kokomo, Ind. "The New Series Haynes Suburban." (For Automobiles.) No. 5,303; Aug. 24; v. 277; p. 786.

Haynes Automobile Company, The, Kokomo, Ind. "The New 1920 Haynes Roadster." (For Automobiles.) No. 5,304; Aug. 24; v. 277; p. 786.

Haynes Automobile Co., The, Kokomo, Ind. "The New Series Haynes Suburban." (For Automobiles.) No. 5,335; Sept. 7; v. 278; p. 162.

Hays, Daniel, Company, The, Gloversville, N. Y. "Hays Gloves." (For Leather Gloves.) No. 5,188; Jan. 6; v. 270; p. 187.

Hays, Daniel, Company, The, Gloversville, N. Y. "Hays Gloves." (For Leather Gloves.) No. 5,355; Sept. 21; v. 278; p. 542.

Heinz, H. J., Company, Pittsburgh, Pa. "Heinz Fig Pudding." (For Heinz Fig-Pudding." No. 5,343; Sept. 14; v. 278; p. 366.

Heinz, H. J., Company, Pittsburgh, Pa. "Heinz Tomato Ketchup." (For Heinz Tomato Catchup.) No. 5,344; Sept. 14; v. 278; p. 366.

Heinz, H. J., Company, Pittsburgh, Pa. "Heinz Oven Baked Beans." (For Heinz Oven-Baked Beans.) No. 5,345; Sept. 14; v. 278; p. 366.

Heinz, H. J., Company, Pittsburgh, Pa. "Heinz Spaghetti Ready Cooked Ready to Serve First the Spaghetti is Made in the Spotless Home of 57 Varieties." (For Heinz Spaghetti.) No. 5,383; Nov. 23; v. 280; p. 807.

Heinz, H. J., Company, Pittsburgh, Pa. "Heinz Vinegars Every Drop Awakens Flavor Malt Cider and White—Heinz Imported Olive Oil." (For Heinz Vinegars.) No. 5,384; Nov. 23; v. 280; p. 807.

Heinz, H. J., Company, Pittsburgh, Pa. "Heinz Oxen Baked Beans—a Quick Meal and a Ready One." (For Heinz Oven Baked Beans.) No. 5,385; Nov. 23; v. 280; p. 807.

Heinz, H. J., Company, Pittsburgh, Pa. "Heinz Oven Baked Beans The Taste is Not an Accident The Skill of a Cook is Shown in the Way he takes the same materials that other cooks have and produces from them a dish that demands special praise." (For Heinz Oven-Baked Beans.) No. 5,391; Nov. 30; v. 280; p. 1006.

Heinz, H. J., Company, Pittsburgh, Pa. "Heinz Vinegars. Three vinegars—Malt, Cider, and White—All made of the choicest materials, with the care and skill that long experience has proved good and aged in wood to develop the aroma." (For Heinz Vinegars.) No. 5,392; Nov. 30; v. 280; p. 1006.

Heinz, H. J., Company, Pittsburgh, Pa. "Heinz Oven Baked Beans baked by dry heat in real ovens until they yield every bit of flavor that baked beans should have." (For Heinz Oven-Baked Beans.) No. 5,393; Nov. 30; v. 280; p. 1006.

Heinz, H. J., Company, Pittsburgh, Pa. "Heinz Vinegars Every drop awakens flavor. It goes without saying that the best materials, painstaking effort and cleanly methods ought to produce good vinegar." (For Heinz Vinegars.) No. 5,394; Nov. 30; v. 280; p. 1006.

Heinz, H. J., Company, Pittsburgh, Pa. "Heinz Cream of Tomato Soup made with real cream. Here is the richness of pure cream which nourishes and the appetizing taste of ripe tomatoes which gives a keener zest to the food that follows." (For Heinz Cream-of-Tomato Soup.) No. 5,395; Nov. 30; v. 280; p. 1006.

Heinz, H. J., Company, Pittsburgh, Pa. "Heinz Spaghetti ready cooked ready to serve. A satisfying food, appetizing, wholesome, thoroughly cooked, and convenient to serve—just heat it." (For Heinz Spaghetti.) No. 5,396; Nov. 30; v. 280; p. 1006.

Heinz, H. J., Company, Pittsburgh, Pa. "Heinz Spaghetti Ready Cooked ready to serve Heinz Spaghetti is a delicious dish." (For Heinz Spaghetti.) No. 5,397; Nov. 30; v. 280; p. 1006.

Heinz, H. J., Company, Pittsburgh, Pa. "Heinz Spaghetti ready cooked ready to serve young housekeepers should quickly learn how good Heinz Spaghetti is." (For Heinz Spaghetti.) No. 5,398; Nov. 30; v. 280; p. 1006.

Heinz, H. J., Company, Pittsburgh, Pa. "Heinz Vinegars A salad is as good as its dressing." (For Heinz Vinegars.) No. 5,399; Nov. 30; v. 280; p. 1006.

Heinz, H. J., Company, Pittsburgh, Pa. "Heinz Oven Baked Beans Vigorous growing boys need nutritive, body building food." (For Heinz Oven-Baked Beans.) No. 5,400; Nov. 30; v. 280; p. 1006.

Heinz, H. J., Company, Pittsburgh, Pa. "Heinz Oven Baked Beans Why do Heinz Baked Beans taste so good?" (For Heinz Oven-Baked Beans.) No. 5,401; Nov. 30; v. 280; p. 1006.

Heinz, H. J., Company, Pittsburgh, Pa. "Heinz Oven Baked Beans Did you ever see a boy eat Heinz Oven Baked Beans?" (For Heinz Oven-Baked Beans.) No. 5,402; Nov. 30; v. 280; p. 1006.

Heinz, H. J., Company, Pittsburgh, Pa. "Heinz Oven Baked Beans There are three strong appeals in Heinz Oven Baked Beans." (For Heinz Oven-Baked Beans.) No. 5,403; Nov. 30; v. 280; p. 1006.

Hofstra Manufacturing Company, Tulsa, Okla. "Harmless to Humans—Fatal to Bugs." (For Insecticide.) No. 5,321; Aug. 31; v. 277; p. 978.

Hofstra Manufacturing Company, Tulsa, Okla. "Bugs Breathe It and Die." (For Insecticide.) No. 5,322; Aug. 31; v. 277; p. 978.

Hofstra Manufacturing Company, Tulsa, Okla. "Hofstra—The National Insecticide." (For Insecticide.) No. 5,323; Aug. 31; v. 277; p. 978.

Import Sales Company, New York, N. Y. "Christmas Tree Lighting Outfits." (For Lighting Outfits.) No. 5,324; Aug. 31; v. 277; p. 978.

Indian Packing Company, Green Bay, Wis. "Council Meats come from the Wisconsin Country to You." (For Canned Meats.) No. 5,224; Feb. 24; v. 271; p. 685.

Iron City Products Company, Pittsburgh, Pa. "Rees Jacks Save Backs." (For Jacks.) No. 5,435; Dec. 14; v. 281; p. 409.

Johnson Biscuit Company, Sioux City, Iowa. "A Matter of Good Taste." (For Chocolates.) No. 5,248; Apr. 20; v. 273; p. 628.

Joint Coffee Trade Publicity Committee of the United States, New York, N. Y. "On bended knees the black slaves served coffee." (For Coffee.) No. 5,372; Oct. 12; v. 279; p. 350.

Joint Coffee Trade Publicity Committee of the United States, New York, N. Y. "He saved the last Coffee Plant." (For Coffee.) No. 5,373; Oct. 12; v. 279; p. 350.

Joint Coffee Trade Publicity Committee of the United States, New York, N. Y. "The Glory of Cornhill's Alley—Coffee." (For Coffee.) No. 5,374; Oct. 12; v. 279; p. 350.

Joint Coffee Trade Publicity Committee of the United States, New York, N. Y. "Wild and Weird were our old delusions." (For Coffee.) No. 5,404; Nov. 30; v. 280; p. 1006.

Joint Coffee Trade Publicity Committee of the United States, New York, N. Y. "We outgrow our old foolish fears." (For Coffee.) No. 5,405; Nov. 30; v. 280; p. 1006.

Digitized by Google

Alphabetical list of registrants of prints—Continued.

Joint Coffee Trade Publicity Committee of the United States, New York, N. Y. "There have been many popular false alarms but—." (For Coffee.) No. 5,406; Nov. 30; v. 280; p. 1006.

Kaffee Hag Corporation, New York, N. Y. "Kaffee Hag." (For Coffee.) No. 5,375; Oct. 12; v. 279; p. 350.

Kaynee Company, The, Cleveland, Ohio. "Making A Hit." (For Boys' Blouses.) No. 5,325; Aug. 31; v. 277; p. 978.

King Car Corporation of New York, New York, N. Y. "King '8' 'Limoudan.'" (For Automobiles.) No. 5,191; Jan. 6; v. 270; p. 187.

King Car Corporation of New York, New York, N. Y. "King 8 Sedanette." (For Automobiles.) No. 5,269; July 27; v. 276; p. 774.

Kirkman & Son, Brooklyn, N. Y. "The Four Keys to Cleanliness." (For Soap.) No. 5,225; Feb. 24; v. 271; p. 685.

Kirk, James S., & Company, Chicago, Ill. "Pure as Gold Transparent as Truth." (For Kirk's Jap Rose Soap.) No. 5,305; Aug. 24; v. 277; p. 786.

Kirk, James S., & Company, Chicago, Ill. "For a Lovely Complexion and Glorious Hair." (For Soap.) No. 5,346; Sept. 14; v. 278; p. 366.

Klorfein, Julius, New York, N. Y. "Garcia Crande Cigar." (For Cigars.) No. 5,380; Nov. 23; v. 280; p. 807. p. 807.

Lectro Sales Company, Portland, Oreg. "Lectro Service Stand." (For Devices for Locating and Eliminating Short Circuits in and Recharging Magnets of Ford Magnetos.) No. 5,288; Aug. 17; v. 277; p. 583.

Lee Hardware Co., The, Salina Kans. "What Tabbing Compound Permits This?" Only Nurex! (For Tabbing Compounds.) No. 5,278; Aug. 3; v. 277; p. 180.

Lee Hardware Co., The, Salina, Kans. "You Can Do This With Nurex." (For Tabbing Compounds.) No. 5,279; Aug. 3; v. 277; p. 180.

Lee Hardware Co., The, Salina, Kans. "Winter's Chilly Temperature Does Not Affect Nurex." (For Tabbing Compounds.) No. 5,306; Aug. 24; v. 277; p. 786.

Lee Hardware Co., The, Salina, Kan. "Nurex Tabbing Compound." (For Tabbing Compounds.) No. 5,326; Aug. 31; v. 277; p. 978.

Lee Hardware Co., The, Salina, Kans. "Carbon Sheets for Duplicating Cause No Trouble in Pads Bound by Nurex." (For Tabbing Compounds.) No. 5,327; Aug. 31; v. 277; p. 978.

Lytle, Charles F., Sioux, City, Iowa. "Adamant Silica." (For Quartzite for Tube-Mill Linings and Pebbles.) No. 5,226; Feb. 24; v. 271; p. 685.

Marshall Field and Company, Chicago, Ill. "Solrex." (For Watches.) No. 5,270; July 27; v. 276; p. 774.

Martin Calf Feed Company, Mineral Point, Wis. "Learning to Drink Martin's Calf Feed." (For Calf Feed.) No. 5,241; Apr. 13; v. 273; p. 406.

Mellor, Norman, Philadelphia, Pa. "Arguto." (For Machinery Bearings.) No. 5,328; Aug. 31; v. 277; p. 978.

Morris, Philip, & Company Ltd. Inc., New York, N. Y. "Call for Philip Morris." (For Cigarettes.) No. 5,227; Feb. 24; v. 271; p. 685.

Morrison-Ricker Mfg. Company, Grinnell, Iowa. "Grinnell Driving Gloves are worthy of the best drivers." (For Gloves.) No. 5,228; Feb. 24; v. 271; p. 685.

Morrison-Ricker Mfg. Company, Grinnell, Iowa. "Grinnell Driving Gloves mean cool, comfortable hands." (For Gloves.) No. 5,229; Feb. 24; v. 271; p. 685.

Morrison-Ricker Mfg. Company, Grinnell, Iowa. "Discriminating folk are always quite as smartly appareled." (For Gloves.) No. 5,230; Feb. 24; v. 271; p. 685.

Mutual Service Corporation, New York, N. Y. "Delight in Every Bite." (For Apples.) No. 5,359; Sept. 21; v. 278; p. 542.

National Canners Association, Washington, D. C. "Canned Food—the Miracle on Your Table." (For Canned Foods.) No. 5,239; Apr. 6; v. 273; p. 183.

National Canners Association, Washington, D. C. "Seal of the Sanitary Inspection Service." (For Canned Foods.) No. 5,436; Dec. 14; v. 281; p. 409.

National Paving Brick Manufacturers Association, Cleveland, Ohio. "Taxpayers' Value Brick Roads." (For Paving-Brick.) No. 5,271; July 27; v. 276; p. 774.

No-Leak-O Piston Ring Company, Baltimore, Md. "No-Leak-O Oilsealing." (For Piston-Rings.) No. 5,347; Sept. 14; v. 278; p. 366.

No-Leak-O Piston Ring Company, Baltimore, Md. "Oil Sealing Piston Rings." (For Piston-Rings.) No. 5,428; Dec. 7; v. 281; p. 204.

Northwestern Fruit Exchange, New York, N. Y. "Skookum America's Supreme Apples—Who Can Resist Them?" (For Apples.) No. 5,307; Aug. 24; v. 277; p. 786.

Novak, John, Company, Chicago, Ill. "Novak's Pills." (For Pills for the Treatment of Constipation.) No. 5,329; Aug. 31; v. 277; p. 978.

Nucoa Butter Company, The, New York, N. Y. "Nucoa Churn Girl." (For Substitute for Butter.) No. 5,286; Aug. 10; v. 277; p. 393.

Oak Flooring Manufacturers Association, Chicago, Ill. "Oak." (For Oak Flooring.) No. 5,253; Apr. 20; v. 273; p. 628.

Othine Laboratories, Buffalo, N. Y. "Certificate of Purchase." (For a Treatment for Freckles.) No. 5,231; Feb. 24; v. 271; p. 685.

Palmolive Company, The, Milwaukee, Wis. "How Washing Your Face Makes Rouge and Powder Harmless." (For Soap.) No. 5,260; June 29; v. 275; p. 1022.

Palmolive Company, The, Milwaukee, Wis. "Tell Me the Truth." (For Soap.) No. 5,261; June 29; v. 275; p. 1022.

Palmolive Company, The, Milwaukee, Wis. "The Price of Beauty." (For Soap.) No. 5,280; Aug. 3; v. 277; p. 180.

Palmolive Company, The, Milwaukee, Wis. "Every Complexion Needs Soap." (For Soap.) No. 5,308; Aug. 24; v. 277; p. 786.

Palmolive Company, The, Milwaukee, Wis. "The Way To Rose Complexions." (For Soap.) No. 5,309; Aug. 24; v. 277; p. 786.

Palmolive Company, The, Milwaukee, Wis. "Re-Incarnation of Beauty." (For Soap.) No. 5,310; Aug. 24; v. 277; p. 786.

Palmolive Company, The, Milwaukee, Wis. "The Price of a Good Complexion." (For Soap.) No. 5,330; Aug. 31; v. 277; p. 978.

Palmolive Company, The. "Simple Home Treatment Which Makes Your Hair Thick and Beautiful." (For Shampoo.) No. 5,348; Sept. 14; v. 278; p. 366.

Palmolive Company, The, Milwaukee, Wis. "Chalk Talks for Men." (For Shaving-Cream." No. 5,407; Nov. 30; v. 280; p. 1006.

Palmolive Company, The, Milwaukee, Wis. "Palmolive Shampoo leaves your Hair soft and glossy and increases its Natural beauty." (For Palmolive Shampoo.) No. 5,408; Nov. 30; v. 280; p. 1006.

Palmolive Company, The, Milwaukee, Wis. "Palmolive Cold Cream Removes Those little care and worry wrinkles over night." (For Palmolive Cold-Cream.) No. 5,409; Nov. 30; v. 280; p. 1006.

Palmolive Company, The, Milwaukee, Wis. "What Science Has Done." (For Shaving-Cream.) No. 5,429; Dec. 7; v. 281; p. 204.

Palmolive Company, The, Milwaukee, Wis. "So Simple Yet So Sure." (For Palmolive Soap.) No. 5,430; Dec. 7; v. 281; p. 204.

Palmolive Company, The, Milwaukee, Wis. "The Easy Way to Beauty." (For Palmolive Soap.) No. 5,431; Dec. 7; v. 281; p. 204.

Palmolive Company, The, Milwaukee, Wis. "Simple Home Treatment Which Makes Your Hair Thick and Beautiful." (For Shampoo.) No. 5,432; Dec. 7; v. 281; p. 204.

Porcher, E. P., Cocoa, Fla. "Deerfield." (For Oranges and Grapefruit.) No. 5,349; Sept. 14; v. 278; p. 366.

Reis, C., Coal Company, The, Sheboygan, Wis. "Splint Coal." (For Coal.) No. 5,232; Feb. 24; v. 271; p. 685.

Reliance Manufacturing Company, Chicago, Ill. "Big Yank." (For Work-Shirts.) No. 5,360; Sept. 21; v. 278; p. 542.

Reliance Mfg. Company, Chicago, Ill. "Rely on Reliance." (For Work-Shirts.) No. 5,311; Aug. 24; v. 277; p. 786.

Reo Motor Car Co., Lansing, Mich. "Speed Wagon." (For Motor-Trucks.) No. 5,262; June 29; v. 275; p. 1022.

Reo Motor Car Co., Lansing Mich. "'Speed Wagon' An Exclusive Reo Appellation." (For Motor-Trucks.) No. 6,263; June 29; v. 275; p. 1022.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "P. A. lets the cat out of the smoke-bag." (For Smoking-Tobacco.) No. 5,192; Jan. 6; v. 270; p. 187.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "P. A. plays such a glad tune in that old jimmy pipe." (For Smoking-Tobacco.) No. 5,242; Apr. 13; v. 273; p. 406.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "You've got 'em Breaking Right." (For Smoking-Tobacco.) No. 5.243; Apr. 13; v. 273; p. 406.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "P. A. has such a joy'us way of making men glad about jimmy pipes!" (For Smoking-Tobacco.) No. 5,244; Apr. 13; v. 273; p. 406.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "Nailing the Right Bower Every Time the Deck's Dealt." (For Smoking-Tobacco.) No. 5,312; Aug. 24; v. 277; p. 786.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "Prince Albert the National Christmas Joy Smoke." (For Smoking-Tobacco.) No. 5,313; Aug. 24; v. 277; p. 786.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "You're Wise-o That You've Been Checking Smoke sport." (For Smoking-Tobacco.) No. 5,314; Aug. 24; v. 277; p. 786.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "Taking Awkward Angles Out of the Early Christmas Morning Atmosphere." (For Smoking-Tobacco.) No 5,315; Aug. 24; v. 277; p. 786.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "Talk About Handing Yourself a Birth-Day-Blow-Out With Bells on." (For Smoking-Tobacco.) No. 5,316; Aug. 24; v. 277; p. 786.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "You'll fuss a pipe like it's the new baby." (For Smoking-Tobacco.) No. 5,350; Sept. 14; v. 278; p. 366.

Alphabetical list of registrants of prints—Continued.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "How do you get that way?" (For Smoking-Tobacco.) No. 5,351; Sept. 14; v. 278; p. 366.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "What a Grip You've Got on Smokesport at Both Ends." (For Smoking-Tobacco.) No. 5,361; Sept. 21; v. 278; p. 542.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "No Need Putting in a Call for the Old Family Yard Stick." (For Smoking-Tobacco.) No. 5,362; Sept. 21; v. 278; p. 542.

Rubber & Celluloid Products Company, Newark, N. J. "Rubberset." (For Tooth, Lather, and Hair Brushes.) No. 5,264; June 29; v. 275; p. 1022.

Rueckheim Bros. & Eckstein, Chicago, Ill. "Angelus Marshmallows." (For Marshmallows.) No. 5,249; Apr. 20; v. 273; p. 628.

Runyan Chemical Products Co., Omaha, Nebr. "Palzo The Great American Cleaner." (For a Cleaner.) No. 5,250; Apr. 20; v. 273; p. 628.

Runyan Chemical Products Co., Omaha, Nebr. "Palzo Takes The Place of Old-Fashioned Soap." (For a Cleanser.) No. 5,238; Mar. 9; v. 272; p. 372.

Runyan Chemical Products Co., Omaha, Nebr. "Palzo." (For a Cleanser.) No. 5,254; Apr. 27; v. 273; p. 806.

Salz Brothers, New York, N. Y. "Salz $1 Fountain Pen." (For Fountain-Pens.) No. 5,272; July 27; v. 276; p. 774.

Schoenhofen Company, Chicago, Ill. "Drink Green River." (For Non-Alcoholic Beverages.) No. 5,289; Aug. 17; v. 277; p. 583.

Schoenhofen Company, Chicago, Ill. "Try a Green River Soda." (For Non-Alcoholic Beverages.) No. 5,290; Aug. 17; v. 277; p. 583.

Schoenhofen Company, Chicago, Ill. "Drink Green River the Snappy Lime Drink." (For Non-Alcoholic Beverage—Namely, a Lime Drink.) No. 5,317; Aug. 24; v. 277; p. 786.

Septole Hygiene Co., Baltimore, Md. "System Cleaners." (For Laxative Tablets.) No. 5,252; Apr. 20; v. 273; p. 628.

Stine Screw Holes Co., The, Waterbury, Conn. "The Only Screw Holes in the World." (For Anchor-Sockets for Screws.) No. 5,410; Nov. 30; v. 280; p. 1006.

Sunbeam Chemical Company, Chicago, Ill. "Stylish Colors Everywhere 'Rit' ed with Rit." (For Dye-Soap.) No. 5,193; Jan. 6; v. 270; p. 187.

Sunbeam Chemical Company, Chicago, Ill. "Astounding Growth of The World Wide Rit Industry." (For Rit Dye-Soap.) No. 5,196; Jan. 27; v. 270; p. 618.

Sunbeam Chemical Company, Chicago, Ill. "Make Your Own Colors Successfully." (For Rit Dye-Soap.) No. 5,197; Jan. 27; v. 270; p. 618.

Sunbeam Chemical Company, Chicago, Ill. "Try Her Beauty Secret." (For Rit Dye-Soap.) No. 5,198; Jan. 27; v. 270; p. 618.

Sunbeam Chemical Company, Chicago, Ill. "Protects You—And Your Home." (For a Germicide.) No. 5,212; Feb. 3; v. 271; p. 154.

Sunbeam Chemical Company, Chicago, Ill. "Not Really New." (For Dye Soap—Namely Rit.) No. 5,233; Feb. 24; v. 271; p. 685.

Sunbeam Chemical Company, Chicago, Ill. "Sun Flakes Give Your Washable Garments a Sun Flake Bath." (For Soaps in Flake Form.) No. 5,255; Apr. 27; v. 273; p. 806.

Sunbeam Chemical Co., Chicago, Ill. "Don't Buy New Corsets." (For Dye-Soap.) No. 5,274; July 27; v. 276; p. 774.

Sweeney, Thomas E., Kansas City, Mo. "Sweeney Tank and Supply Co." (For Tanks and Tank Supplies.) No. 5,273; July 27; v. 276; p. 774.

Sweet-Odor-Home Company, San Francisco, Calif. "Take a Sweet-Odor-Home." (For Liquid Deodorant.) No. 5,438; Dec. 14; v. 281; p. 409.

Thermoid Rubber Company, Trenton, N. J. "Will Your Car Do This?" (For Brake-Lining.) No. 5,265; June 29; v. 275; p. 1022.

Union Salt Company, The, Cleveland, Ohio. "Our Gold Standard Line." (For Salt.) No. 5,234; Feb. 24; v. 271; p. 685.

United Fuel & Supply Company, Detroit, Mich. "Comfort Coke." (For Fuel-Coke.) No. 5,257; May 11; v. 274; p. 403.

Vanity Fair Studios, Inc., Philadelphia, Pa. "Vanity Fair." (For Photographs.) No. 5,471; Nov. 30; v. 280; p. 1006.

Watkins, R. L., Company, The, Cleveland, Ohio. "Makes Your Hair Look Its Best." (For Mulsified Cocoanut Oil Shampoo.) Nos. 5,331–3; Aug. 31; v. 277; p. 978.

Watkins, R. L., Company, The, Cleveland, Ohio. "Mulsified." (For Cocoanut-Oil Shampoo.) No. 5,437; Dec. 14; v. 281; p. 409.

Wedgefuth, Louis C., Yonkers, N. Y. "Sulfosol Hair Tonic." (For Hair-Tonic.) No. 5,235; Feb. 24; v. 271; p. 685.

Weston Electrical Instrument Company, Newark, N. J. "Weston Ammeter." (For Ammeters.) No. 5,236; Feb. 24; v. 271; p. 685.

Whitaker, George S., Gloversville, N. Y. "The New Improved Double Floor Whitaker Denture Vacuum." (For a Vacuum Denture.) No. 5,363; Sept. 21; v. 278; p. 542.

William Patent Crusher & Pulverizer Co., St. Louis, Mo. "Taking Care of Ball Bearings of Our A-B-C Grinding Line." (For Ball-Bearings of Our A-B-C Grinding Line of Flour and Feed Grinders.) No. 5,251; Apr. 20; v. 273; p. 628.

Williams Patent Crusher & Pulverizer Co., St Louis, Mo. "Taking Care of Ball Bearings of Our Little Giant Line of Grinding Mills." (For Ball-Bearings of Our Little Giant Line of Grinding-Mills Used as Feed-Grinders.) No. 5,258; May 11; v. 274; p. 403.

Wisconsin Butterine Co., Milwaukee, Wis. "Besto Nut." (For a Spread for Bread.) No. 5,291; Aug. 17; v. 277; p 583.

World Phonograph Company, Chicago, Ill. "My Mama." (For Phonographs.) No. 5,364; Sept. 21; v. 278; p. 542.

Yancey, Abner M., Richmond, Va. "Chessco." (For Cough Preparation.) No. 5,377; Nov. 16; v. 280; p. 587.

Digitized by Google

DISCLAIMERS.

Averill, Georgene, New York, N. Y.; disclaimer filed by patentee. Doll. No. 1,269,363; disclaimer filed Jan. 13, 1920; v. 273; p. 190.

Ball, Albert P., Royal Oak, and Frederick Zenker, Highland Park, Mich.; disclaimer filed by patentees and assignee, Square D Company. Electrical switch. No. 1,291,667; v. 280; p. 593.

Berg, Joseph, Chicago, Ill.; disclaimer filed by assignee, Stewart-Warner Speedometer Corporation. Vehicle-bumper support. No. 1,240,167; v. 275; p. 627.

Casgrain, Louis A., Winchester, Mass.; disclaimer filed by assignee, United Shoe Machinery Corporation. Machine for inserting fastenings. No. 864,951; disclaimer filed Dec. 31, 1919; v. 270; p. 1.

Dubilier, William, New York, N. Y.; disclaimer filed by assignee, Dubilier Condenser Co., Inc. Electrical condenser. No. 1,229,915; disclaimer filed Mar. 16, 1920; v. 272; p. 739.

Duffy, Thomas I., Chicago, Ill.; disclaimer filed by assignee, Wire Wheel Corporation of America. Demountable wheel. No. 1,125,498; disclaimer filed Aug. 20, 1920; v. 278; p. 168.

Ellis, Carleton, Montclair, N. J.; disclaimer filed by the assignee, Ellis-Foster Company, and patentee. Process of making derivatives of petroleum-hydrocarbons. No. 1,317,868; disclaimer filed July 3, 1920; v. 276; p. 601.

Gans, Robert, Berlin, Germany; disclaimer filed by assignee, The Permutit Company. Softening of water. No. 1,195,928; disclaimer filed Mar. 2, 1920; v. 272; p. 552.

Greenstreet, Jason H., Indianapolis, Ind.; disclaimer filed by assignee, Wirebound Patents Company. Box-blank machine. No. 1,325,719; disclaimer filed July 28, 1920; v. 277; p. 398.

Hambuechen, Carl, Belleville, Ill.; disclaimer filed by patentee and assignee, National Carbon Company, Inc. Battery hand-lamps. No. 1,289,459; disclaimer filed ———; v. 279; p. 541

Ide, Harry L., Springfield, Ill.; disclaimer filed by assignee, Elmer Stewart. Automobiles. No. 861,183; disclaimer filed July 12, 1920; v. 277; p. 184.

Jepson, John W., Buffalo, N. Y.; disclaimer filed by assignee, Gould Coupler Company. Electrical system of distribution. No. 1,287,331; disclaimer filed Aug. 20, 1920; v. 278; p. 168.

Jouffret, Henri Victor Jules, and J. M. Renée, Paris, France; disclaimer filed by owner, George M. Holley. Carbureter. No 1,002,700; disclaimer filed Apr. 21, 1920; v. 274; p. 208.

Lambert, Eric, Kansas City, Mo.; disclaimer filed by patentee. Apparatus for drying wood veneer. No. 1,228,790; disclaimer filed July 23, 1920; v. 277; p. 398.

Landsiedel, Harry, Cincinnati, Ohio; disclaimer filed by assignee, The Dalton Adding Machine Company. Adding and recording machine. No. 1,225,655; disclaimer filed April 5, 1920; v. 273; p. 413.

Larsen, Louis B., O. J. Holmes, and H. G. Larsen, Chicago, Ill.; disclaimer filed by assignee, Acme Motion Picture Projector Co. Motion-picture machine. No. 1,283,224; disclaimer filed Sept. 8, 1920; v. 278; p. 548.

Lubberger, Fritz, Chicago, Ill.; disclaimer filed by assignee, Automatic Electric Company. Semi-automatic telephone-exchange system. No. 1,306,824; disclaimer filed July 15, 1920; v. 277; p. 185.

Martin, Talbot G., Chicago, Ill.; disclaimer filed by the patentee—the assignee, Automatic Electric Company, consenting. Non-interfering extension or party-line telephone system. No. 1,151,554; disclaimer filed June 28, 1920; v. 276; p. 409.

Martin, Talbot G., Chicago, Ill.; disclaimer filed by the patentee—the assignee, Automatic Electric Company, consenting. Automatic telephone switching apparatus. No. 14,665 (reissue); disclaimer filed June 30, 1920; v. 276; p. 409.

Martin, Talbot G., Chicago, Ill.; disclaimer filed by assignee, Automatic Electric Company. Two-wire automatic telephone system. No. 1,249,159; disclaimer filed Nov. 9, 1920; v. 281; p. 414.

Nessler, Charles, London, England; disclaimer filed by assignee, Nestle Patent Holding Co., Inc. Apparatus for waving natural hair on the head. No. 1,052,166; v. 275; p. 627.

Platt, Clarence D., Bridgeport, Conn.; disclaimer filed by assignee, The Trumbull Electric Manufacturing Company. Switch-boxes. No. 1,271,216; v. 280; p. 1010.

Pruessman, Albert, East Orange, N. J.; disclaimer filed by the patentee—the assignee, Western Electric Company, Incorporated, consenting. Condenser and method of making the same. No. 1,275,468; disclaimer filed June 15, 1920; v. 276; p. 409.

Rodman, Hugh, Edgewood, Pa.; disclaimer filed by assignee, Rodman Chemical Company. Method of making case-hardening material. No. 1,076,453; disclaimer filed Dec. 20, 1919; v. 270; p. 1.

Scherer, Albert G., Chicago, Ill.; disclaimer filed by assignee, The Excelsior Steel Furnace Company. Machine for cutting sheet metal. No. 729,964; disclaimer filed Nov. 20, 1920; v. 281; p. 414.

Thermoid Rubber Company, Hamilton township, N. J.; disclaimer filed by registrant. Rubber automobile-casings, inner tubes, reliners for casings, radiator-hose, and fan-belts. Trade-mark No. 103,452; disclaimer filed Sept. 10, 1920; v. 279; p. 1.

Watson, Henry W. and W. W., Jamestown, N. Y.; disclaimer filed by patentees. Metal screen. No. 836,475; disclaimer filed Apr. 30, 1920; v. 274; p. 411.

Weber, August, Sr., Schenectady, N. Y.; disclaimer filed by assignee, Weber Electric Company. Incandescent-electric-lamp socket. No. 743,206; disclaimer filed Feb. 25, 1920; v. 272; p. 552.

Digitized by Google

Digitized by Google

ALPHABETICAL LIST OF INVENTIONS

Abattoirs, Defatting apparatus for. D. E. Dufresne and W. Adamson. No. 1,334,694; Mar. 23; v. 272; p. 633.
Abdominal support. P. Johnson. No. 1,342,914; June 8; v. 275; p. 308.
Abdominal support. S. Voorhees. No. 1,327,930; Jan. 13; v. 270; p. 257.
Abdominal supporter. S. G. Brennan. No. 1,359,573; Nov. 23; v. 280; p. 614.
Abrasion, Holder for substances to be consumed by. J. C. Cook. No. 1,336,819; Apr. 13; v. 273; p. 271.
Abrasive structures, Making. C. W. Thomas. No. 1,338,598; Apr. 27; v. 273; p. 751.
Absorbent. R. E. Wilson. No. 1,333,524; Mar. 9; v. 272; p. 307.
Absorbent block. W. C. Johnson. No. 1,357,989; Nov. 9; v. 280; p. 212.
Absorbing and purifying composition. J. C. Tate. No. 1,346,349; July 13; v. 276; p. 264.
Accelerator. W. I. Hallock. No. 1,334,654; Mar. 23; v. 272; p. 626.
Account-file. W. M. Pearse. No. 1,354,837; Oct. 5; v. 279; p. 78.
Account register, Credit-. H. A. Martin. No. 1,341,922; June 1; v. 275; p. 61.
Accounting and record device. G. W. Moeller. No. 1,351,864; Sept. 7; v. 278; p. 30.
Accounting and recording apparatus. J. V. Weckbaugh. No. 1,337,575; Apr. 20; v. 273; p. 489.
Accounting and typewriting machines, Sheet-feeding means for. S. S. Dixon. No. 1,348,984; Aug. 10; v. 277; p. 217.
Accounting-machine. A. Briechle. No. 1,336,192; Apr. 6; v. 273; p. 92.
Accounting-machine. B. P. Hayes and F. D. Laughlin. No. 1,340,827; May 18; v. 274; p. 542.
Accounting-machine-control means. J. F. Robb. No. 1,357,423; Nov. 2; v. 280; p. 42.
Accounting machine, Ticket-issuing. F. Skerl and F. J. Graef. No. 1,338,876; May 4; v. 274; p. 42.
Accumulator-cell handle. C. M. Angell. No. 1,362,832; Dec. 21; v. 281; p. 465.
Acetaldehyde, Making. H. L. Bender. No. 1,355,299; Oct. 12; v. 279; p. 221.
Acetate of cellulose, Manufacture of solution, composition, or preparation having a basis of. H. Dreyfus. No. 1,363,763; Dec. 28; v. 281; p. 686.
Acetates, Manufacture and production of cellulose. J. O. Zdanowich. No. 1,347,801; July 27; v. 276; p. 666.
Acetates, Manufacture of cellulose. H. A. Levey. No. 1,330,543; Feb. 10; v. 271; p. 255.
Acetates, &c., Production of. J. W. H. Randall. No. 1,338,040; Apr. 27; v. 273; p. 647.
Acetic anhydrid. H. Dreyfus. No. 1,338,979; May 4; v. 274; p. 60.
Acetylene-generator. R. D. Braden and C. W. Grant. No. 1,336,813; Apr. 13; v. 273; p. 270.
Acetylene-gas generator. C. T. and C. B. Cook. No. 1,353,455; Sept. 21; v. 278; p. 435.
Acetylene-gas generator. J. D. Luttrell. No. 1,336,573; Apr. 13; v. 273; p. 224.
Acetylene-generator, Variable-pressure. A. Davis. No. 1,328,227; Jan. 13; v. 270; p. 314.
Acid, Allyl esters of p-amino benzoic. R. Adams and E. H. Volwiler. No. 1,360,994; Dec. 7; v. 281; p. 8.
Acid, Allylester of the 2-phenylquinolin 4-carboxylic. A. Gams. No. 1,336,952; Apr. 13; v. 273; p. 297.
Acid and compounds of same, Process of and apparatus for producing phosphoric. F. S. Washburn. No. 1,359,211; Nov. 16; v. 280; p. 497.
Acid and cyanids, Making hydrocyanic. M. E. Mueller. No. 1,347,518; July 27; v. 276; p. 609.
Acid and other nitrogen compounds from atmospheric air, Manufacturing nitric. J. F. Sanders. No. 1,349,919; Aug. 17; v. 277; p. 473.
Acid, Apparatus for making sulfuric. H. V. Welch. No. 1,328,552; Jan. 20; v. 270; p. 412.
Acid, Apparatus for producing hydrochloric. H. M. Lasher. No. 1,335,743; Apr. 6; v. 273; p. 8.
Acid-charging system for digesters. F. J. Dooley. No. 1,338,496; Apr. 27; v. 273; p. 733.
Acid compound, Trimethyl-acetyl-salicylic-. W. Grüttefien. No. 1,338,297; Apr. 27; v. 273; p. 695.
Acid, Concentrating nitric and sulfuric. A. C. Bohre. No. 1,338,418; Apr. 27; v. 273; p. 718.
Acid, Concentration of sulfuric. A. C. Bohre. No. 1,353,448; Sept. 21; v. 278; p. 433.
Acid concentration, Sulfuric-. J. Patten. No. 1,340,290; May 18; v. 274; p. 440.
Acid, Di (normal) butyl barbituric. O. Kamm and E. H. Vollweiler. No. 1,331,712; Feb. 24; v. 271; p. 563.
Acid from phosphoric acid, Removal of hydrofluoric. W. H. Ross. No. 1,329,273; Jan. 27; v. 270; p. 576.
Acid halids and phosphorus oxhalids, Making fatted. F. J. Kaufman. No. 1,359,071; Nov. 16; v. 280; p. 471.
Acid, Making nitric. E. Thomson. No. 1,337,106; Apr. 13; v. 273; p. 326.
Acid, Making sulfuric. E. L. Larison. No. 1,342,024; June 1; v. 275; p. 81.
Acid, Manufacture of a boron derivative of pyrophosphoric. B. Levin. No. 1,336,974; Apr. 13; v. 273; p. 301.
Acid, Manufacture of concentrated nitric. E. Bergve and O. Jensen. No. 1,338,417; Apr. 27; v. 273; p. 718.
Acid, Manufacture of concentrated nitric. P. A. Guye. No. 1,348,873; Aug. 10; v. 277; p. 196.
Acid, Manufacture of nitric. N. C. Hill and H. L. Moyler. No. 1,362,418; Dec. 14; v. 281; p. 332.
Acid, Manufacture of phosphorus and phosphoric. W. H. Waggaman. No. 1,334,474; Mar. 23; v. 272; p. 592.
Acid, Manufacture of picric. L. G. Badier. No. 1,349,802; Aug. 17; v. 277; p. 451.
Acid, Preparation of oxalic. G. H. Gontard and A. Keller. No. 1,356,137; Oct. 19; v. 279; p. 425.
Acid plant. E. L. Larison. No. 1,334,384; Mar. 23; v. 272; p. 576.
Acid, Producing and purifying sulfuric. P. Haeseler. No. 1,341,462; May 25; v. 274; p. 736.
Acid, Producing hydrocyanic. G. H. Buchanan. No. 1,352,655; Sept. 14; v. 278; p. 218.
Acid, Producing nitric. T. F. Banigan. No. 1,332,195; Mar. 2; v. 272; p. 4.
Acid, Production of chlorobenzoyl. J. M. Weiss, G. C. Bailey, and R. S. Potter. No. 1,355,900; Oct. 5; v. 279; p. 129.
Acid, Production of nitric. K. B. Quinan. No. 1,355,357; Oct. 12; v. 279; p. 233.
Acid, Production of sulfuric. K. B. Quinan. No. 1,348,736; Aug. 3; v. 277; p. 117.
Acid, Recovering hydrocyanic. G. H. Buchanan. No. 1,355,384; Oct. 12; v. 279; p. 238.
Acid utilizing sludge acid, Apparatus for producing hydrochloric. H. M. Lasher. No. 1,339,519; May 11; v. 274; p. 237.
Acid utilizing sludge acid, Producing hydrochloric. H. M. Lasher. No. 1,337,141; Apr. 13; v. 273; p. 332.
Acids and acid anhydrids, Manufacture of. M. Moest and E. Schirm. No. 1,337,253; Apr. 20; v. 273; p. 428.
Acids and their glycerids, Method of and apparatus for hydrogenating fatty. A. Radisson and P. Berthon. No. 1,353,419; Sept. 21; v. 278; p. 428.
Acids from extracted corncob pentosan, Manufacture of furfural and volatile organic. K. P. Monroe. No. 1,357,467; Nov. 2; vol. 280; p. 50.
Acids from mineral-oil sludge, Recovering sulfonic. R. E. Divine. No. 1,330,624; Feb. 10; v. 271; p. 270.
Acids, Object having great strength and resistance against the action of. B. Strauss. No. 1,339,378; May 4; v. 274; p. 134.
Acids, Production of. C. L. Tayntor. No. 1,361,416; Dec. 7; v. 281; p. 87.
Acids, Sulfuric and haloid. H. Tobler. No. 1,332,581; Mar. 2; v. 272; p. 78.
Acids, Thienylquinolin carboxylic. M. Hartmann and E. Wybert. No. 1,350,408; Aug. 24; v. 277; p. 614.
Acoustic device. G. B. Thomas. No. 1,345,717; July 6; v. 276; p. 77.
Acoustic diaphragm. S. D. Paddack. No. 1,356,399; Oct. 19; v. 279; p. 477.
Acoustic signaling method. A. Bull. No. 1,342,584; June 8; v. 275; p. 243.
Acquaintance-promoting machine. C. J. Witzoreck. No. 1,329,218; Jan. 27; v. 270; p. 566.
Adapter. W. J. Cameron. No. 1,335,935; Apr. 6; v. 273; p. 44.
Adder, Listing. W. M. Holloway. No. 1,348,564; Aug. 3; v. 277; p. 84.
Adding and listing machine, Combined. W. F. McCaleb. No. 1,337,844; Apr. 20; v. 273; p. 540.
Adding and recording machine. J. L. Dalton and J. Magnus. No. 1,328,822; Jan. 27; v. 270; p. 491.
Adding and subtracting machine. C. W. Gooch. No. 1,327,318; Jan. 6; v. 270; p. 81.
Adding and substracting machine. D. Wittnebert. No. 1,361,949; Dec. 14; v. 281; p. 241.
Adding and typewriting machine. B. C. Stickney. No. 1,339,796; May 11; v. 274; p. 290.
Adding and typewriting machines, Paper-support for combined. C. L. Harvey. No. 1,336,836; Apr. 13; v. 273; p. 275.
Adding-machine. G. C. Chase. No. 1,340,374; May 18; v. 274; p. 457.

Digitized by Google

Adding-machine. G. C. Chase. No. 1,354,884; Oct. 5; v. 279; p. 87.
Adding-machine. A. Ekman. No. 1,358,427; Nov. 9; v. 280; p. 300.
Adding-machine. C. M. Fitch. No. 1,349,194; Aug. 10; v. 277; p. 259.
Adding-machine. C. W. Gooch. No. 1,327,319; Jan. 6; v. 270; p. 81.
Adding-machine. C. W. Gooch. No. 1,327,320; Jan. 6; v. 270; p. 82.
Adding-machine. M. M. Holloway. No. 1,337,599; Apr. 20; v. 273; p. 493.
Adding-machine. W. A. Homan. No. 1,333,253; Mar. 9; v. 272; p. 256.
Adding-machine. A. A. Horton. No. 1,359,173; Nov. 16; v. 280; p. 489.
Adding-machine. J. T. Hurley No. 1,345,781; July 6; v. 276; p. 89.
Adding-machine. W. J. Pasinski. No. 1,342,459; June 8; v. 275; p. 218.
Adding-machine. R. E. Wing. No. 1,351,082; Aug. 31; v. 277; p. 807.
Adding-machine and check-protector, Combined. I. Engstrom. No. 1,334,743; Mar. 23; v. 272; p. 648.
Adding machine, Fraction-. C. Ruiz. No. 1,344,190; June 22; v. 275; p. 686.
Adding machine, Writing-. H. A. Foothorap. No. 1,331,338; Feb. 17; v. 271; p. 472.
Adding-machines, Attachment to. J. C. Burne. No. 1,358,517; Nov. 9; v. 280; p. 317.
Adding-machines, Printing cut-out for. F. A. Niemann. No. 1,333,277; Mar. 9; v. 272; p. 260.
Address-matcher. W. J. Maguire. No. 1,328,534; Jan. 20; v. 270; p. 409.
Address-stencil. G. J. Evans. No. 1,350,993; Aug. 24; v. 277; p. 727.
Addressing-machine. M. F. Cheshire. No. 1,335,043; Mar. 30; v. 272; p. 761.
Addressing mechanism (slug). P. F. Cox. No. 1,344,384; June 22; v. 275; p. 725.
Addressograph. R. B. Smart. No. 1,337,970; Apr. 20; v. 273; p. 565.
Adenotome. S. Diamant. No. 1,339,691; May 11; v. 274; p. 271.
Adenotome. S. Diamant. No. 1,339,692; May 11; v. 274; p. 271.
Adhesive. W. Alexander. No. 1,337,381; Apr. 20; v. 273; p. 452.
Adhesive composition. O. V. Foutz. No. 1,360,915; Nov. 30; v. 280; p. 945.
Adhesive composition and making same. W. Alexander. No. 1,337,382; Apr. 20; v. 273; p. 452.
Adhesive-cord strips and winding mechanism therefor, Making. F. B. Converse and J. L. Butler. No. 1,337,690; Apr. 20; v. 273; p. 511.
Adhesive, Machine for applying. F. S. Glines. No. 1,341,311; May 25; v. 274; p. 706.
Adhesive surfaces, Preparation of. J. A. Noble. No. 1,361,894; Dec. 14; v. 281; p. 229.
Adjustable bracket. G. G. Blandford. No. 1,345,344; July 6; v. 276; p. 4.
Adjustable chair. C. A. Lee. No. 1,335,379; Mar. 30; v. 272; p. 823.
Adjustable chair. F. Tse. No. 1,357,130; Oct. 26; v. 279; p. 666.
Adjustable clamp. R. H. Carpenter. No. 1,354,278; Sept. 28; v. 278; p. 665.
Adjustable clamp. M. L. Radtke. No. 1,351,966; Sept. 7; v. 278; p. 50.
Adjustable cutter. F. H. Korff and S. H. Humphrey. No. 1,349,967; Aug. 17; v. 277; p. 483.
Adjustable die. A. A. Gericke. No. 1,348,403; Aug. 3; v. 277; p. 54.
Adjustable gage. L. Rouanet. No. 1,343,479; June 15; v. 275; p. 481.
Adjustable gate, Vertically-. O. Veeder. No. 1,349,173; Aug. 10; v. 277; p. 254.
Adjustable holder. A. H. Carlson. No. 1,335,724; Apr. 6; v. 273; p. 4.
Adjustable rear axle for separators. B. F. Bodenner. No. 1,363,711; Dec. 28; v. 281; p. 675.
Adjustable rigid clamp. W. H. McLaughlin. No. 1,355,610; Oct. 12; v. 279; p. 281.
Adjustable screen. A. and M. Manyak. No. 1,341,188; May 25; v. 274; p. 683.
Adjustable stand. W. V. Lewis. No. 1,359,399; Nov. 16; v. 280; p. 534.
Adjustable support. G. L. Knights. No. 1,348,569; Aug. 3; v. 277; p. 85.
Adjustable wrench. F. W. Mellars. No. 1,355,496; Oct. 12; v. 279; p. 260.
Adjustable wrench. E. M. Pauley. No. 1,349,852; Aug. 17; v. 277; p. 461.
Adjustable wrench, Quick-. A. Shoopman. No. 1,344,154; June 22; v. 275; p. 679.
Advertisement and other papers, Holder for. R. Neddo. No. 1,349,906; Aug. 17; v. 277; p. 471.
Advertising apparatus. J. M. and C. C. James. No. 1,333,920; Mar. 16; v. 272; p. 442.
Advertising apparatus. J. R. Osborne. No. 1,338,523; Apr. 27; v. 273; p. 738.
Advertising-bench, Automatic. G. G. Diaz. No. 1,348,852; Aug. 10; v. 277; p. 191.
Advertising device. E. J. Baker. No. 1,350,054; Aug. 17; v. 277; p. 499.
Advertising device. P. W. Furstenberg. No. 1,329,078; Jan. 27; v. 270; p. 540.
Advertising device. A. C. Grover. No. 1,355,664; Oct. 12; v. 279; p. 291.
Advertising device. J. Z. Hanson. No. 1,327,552; Jan. 6; v. 270; p. 126.
Advertising device. M. Horsey. No. 1,352,368; Sept. 7; v. 278; p. 125.
Advertising device. J. H. B. Page. No. 1,330,134; Feb. 10; v. 271; p. 179.
Advertising device. S. Schlup. No. 1,332,274; Mar. 2; v. 272; p. 19.
Advertising device. P. A. Stephens. No. 1,335,262; Mar. 30; v. 272; p. 801.
Advertising device. E. F. Trevail. No. 1,355,716; Oct. 12; v. 279; p. 302.
Advertising device. G. H. Trulock. No. 1,341,950; June 1; v. 275; p. 66.
Advertising device. F. Vogelzang. No. 1,346,775; July 13; v. 276; p. 348.
Advertising device. L. D. Wheatley. No. 1,344,250; June 22; v. 275; p. 698.
Advertising device. W. B. Wheeler. No. 1,353,105; Sept. 14; v. 278; p. 307.
Advertising device. H. M. Yingst. No. 1,352,336; Sept. 7; v. 278; p. 119.
Advertising device, Automatic. F. A. Jones. No. 1,363,121; Dec. 21; v. 281; p. 521.
Advertising display device. S. T. Harvey. No. 1,337,315; Apr. 20; v. 273; p. 440.
Advertising-display device. F. W. Sargent. No. 1,348,899; Aug. 10; v. 277; p. 200.
Advertising display device. J. Stranders. No. 1,332,695; Mar. 2; v. 272; p. 99.
Advertising-frame. F. Newhouse. No. 1,346,969; July 20; v. 276; p. 445.
Advertising fruit-juices, Display device for. J. Caminiti. No. 1,333,386; Mar. 9; v. 272; p. 281.
Advertising or amusement device. C. H. Leggett. No. 1,346,219; July 13; v. 276; p. 237.
Advertising quarters, lodgings, or the like, Means for. M. M. Holloway. No. 1,338,135; Apr. 27; v. 273; p. 665.
Advertising, Securing depth and relief for commercial. H. R. Hyman and T. B. Messick. No. 1,339,892; May 11; v. 274; p. 308.
Advertising specialty. C. Kolin. No. 1,346,658; July 13; v. 276; p. 324.
Advertising weather-shelter. S. A. Foster. No. 1,327,427; Jan. 6; v. 270; p. 102.
Aeration-cell for flotation apparatus. E. W. Engelmann and W. T. MacDonald. No. 1,344,123; June 22; v. 275; p. 674.
Aeration of sewage and other impure liquids. O. Stott and E. R. Jones. No. 1,343,797; June 15; v. 275; p. 546.
Aerator, Cream and milk. G. W. Kennedy. No. 1,344,902; June 29; v. 275; p. 891.
Aerial bomb. G. E. Cook. No. 1,343,036; June 8; v. 275; p. 332.
Aerial bomb. O. M. Kelley. No. 1,330,191; Feb. 10; v. 271; p. 190.
Aerial bomb. J. J. McIntyre. No. 1,327,487; Jan. 6; v. 270; p. 113.
Aerial bomb. E. C. Williams. No. 1,359,009; Nov. 16; v. 280; p. 459.
Aerial bomb and launching mechanism therefor. D. G. Edwards. No. 1,363,578; Dec. 28; v. 281; p. 650.
Aerial bomb, Self-propelling. A. Di Grazia and E. Biagini. No. 1,327,810; Jan. 13; v. 270; p. 235.
Aerial-cable guide. T. C. Smith. No. 1,340,989; May 25; v. 274; p. 644.
Aerial condenser. L. P. Litzinger, P. F. Conerty, and W. Snodgrass. No. 1,349,681; Aug. 17; v. 277; p. 428.
Aerial craft, Apparatus for tilting planes on. A. V. Roe. No. 1,336,160; Apr. 6; v. 273; p. 86.
Aerial craft, Stabilizing-plane on. A. B. Roe and R. J. Parrott. No. 1,336,161; Apr. 6; v. 273; p. 86.
Aerial mark from a battery, Apparatus for determining the elevation and distance of an. N. Overaas. No. 1,339,130; May 4; v. 274; p. 90.
Aerial navigation. J. Lemire. No. 1,356,534; Oct. 26; v. 279; p. 549.
Aerial navigation, Apparatus for. C. Hering. No. 1,353,955; Sept. 28; v. 278; p. 578.
Aerial navigation, Flash-light for. H. L. M. J. Benard. No. 1,337,880; Apr. 20; v. 273; p. 547.
Aerial navigation, Instrument for. H. E. Wimperis. No. 1,343,952; June 22; v. 275; p. 641.
Aerial-literature distributer. A. Lyon. No. 1,360,422; Nov. 30; v. 280; p. 849.
Aerial propeller. A. L. Flattum. No. 1,344,496; June 22; v. 275; p. 748.
Aerial ropeway. H. F. H. Shields and J. P. Roe. No. 1,347,763; July 27; v. 276; p. 659.
Aerial torpedo. C. L. Klise. No. 1,343,831; June 15; v. 275; p. 552.
Aerial toy parachute. T. F. Powell. No. 1,362,894; Dec. 21; v. 281; p. 477.

Digitized by Google

Alphabetical list of inventions—Continued.

Aerial transporter. H. Coanda. No. 1,344,677; June 29; v. 275; p. 848.
Aero-engine control. S. M. Udale. No. 1,345,037; June 29; v. 275; p. 916.
Aerocruiser. T. M. Finley. No. 1,328,040; Jan. 13; v. 270; p. 278.
Aerodynamic stabilizer. J. V. Martin. No. 1,334,707; Mar. 23; v. 272; p. 272; p. 636.
Aeronautic device. J. Kropacs. No. 1,343,055; June 8; v. 275; p. 336.
Aeronautic landing device. F. M. McDonald. No. 1,342,221; June 1; v. 275; p. 120.
Aeronautical apparatus. C. C. Haddock. No. 1,349,336; Aug. 10; v. 277; p. 287.
Aeronautical apparatus. H. W. Schmidt. No. 1,351,069; Aug. 31; v. 277; p. 805.
Aeronautical machine. A. J. Smith. No. 1,358,257; Nov. 9; v. 280; p. 264.
Aeronautical machine, Power control for. A. J. Greenly. No. 1,339,332; May 4; v. 274; p. 126.
Aeronautical motor. C. B. Kirkham. No. 1,336,704; Apr. 13; v. 273; p. 249.
Aeronautical motor. C. B. Kirkham. No. 1,351,763; Sept. 7; v. 278; p. 9.
Aeroplane. A. Ahlbrecht. No. 1,362,070; Dec. 14; v. 281; p. 265.
Aeroplane. A. Alberico. No. 1,346,107; July 13; v. 276; p. 216.
Aeroplane. D. Amici. No. 1,358,915; Nov. 16; v. 280; p. 442.
Aeroplane. W. R. Bohlander. No. 1,355,751; Oct. 12; v. 279; p. 308.
Aeroplane. E. V. Boller. No. 1,353,212; Sept. 21; v. 278; p. 388.
Aeroplane. B. Carlisle. No. 1,336,678; Apr. 13; v. 273; p. 244.
Aeroplane. A. Cartwright. No. 1,329,368; Feb. 3; v. 271; p. 5.
Aeroplane. C. H. Caspar. No. 1,360,621; Nov. 30; v. 280; p. 889.
Aeroplane. J. L. Cochennet. No. 1,328,421; Jan. 20; v. 270; p. 387.
Aeroplane. L. Coletta. No. 1,343,433; June 15; v. 275; p. 473.
Aeroplane. A. Covello. No. 1,355,315; Oct. 12; v. 279; p. 225.
Aeroplane. I. Covino. No. 1,348,983; Aug. 10; v. 277; p. 217.
Aeroplane. P. de Créquy. No. 1,354,728; Oct. 5; v. 279; p. 56.
Aeroplane. N. W. Dalton. No. 1,363,847; Dec. 28; v. 281; p. 702.
Aeroplane. G. Delage. No. 1,331,807; Feb. 24; v. 271; p. 582.
Aeroplane. J. D. Denson. No. 1,336,982; Apr. 13; v. 273; p. 302.
Aeroplane. J. D. Denson. No. 1,341,886; June 1; v. 275; p. 54.
Aeroplane. J. Ebert. No. 1,348,934; Aug. 10; v. 277; p. 207.
Aeroplane. J. Ellard. No. 1,343,498; June 15; v. 275; p. 486.
Aeroplane. C. R. Fairey. No. 1,337,762; Apr. 20; v. 273; p. 525.
Aeroplane. J. Fox. No. 1,338,128; Apr. 27; v. 273; p. 664.
Aeroplane. J. M. Funk. No. 1,327,543; Jan. 6; v. 270; p. 124.
Aeroplane. O. Gunderson. No. 1,362,292; Dec. 14; v. 281; p. 309.
Aeroplane. R Hanriot and F. Gratieux. No. 1,354,827; Oct. 5; v. 279; p. 76.
Aeroplane. H. L. Haskell. No. 1,352,600; Sept. 14; v. 278; p. 207.
Aeroplane. W. C Higley. No. 1,356,206; Oct. 19; v. 279; p. 439.
Aeroplane. L. Hins. No. 1,353,957; Sept. 28; v. 278; p. 579.
Aeroplane. B. Hood. No. 1,347,952; July 27; v. 276; p. 696.
Aeroplane. E. B. Jaeger and E. H. Heller. No. 1,327,869; Jan. 13; v. 270; p. 246.
Aeroplane. O. A. Kalbfus. No. 1,340,960; May 25; v. 274; p. 688.
Aeroplane. G. N. Kasematis and B. A. Stamatelopoulos. No. 1,349,460; Aug. 10; v. 277; p. 311.
Aeroplane. J. Kleidman. No. 1,340,450; May 18; v. 274; p. 471.
Aeroplane. F. C. Lawrence. No. 1,351,918; Sept. 7; v. 278; p. 41.
Aeroplane. J. A. Lowell. No. 1,331,593; Feb. 24; v. 271; p. 541.
Aeroplane. H. J. Parker. No. 1,337,151; Apr. 13; v. 273; p. 334.
Aeroplane. C. Pearson and G. C. St. Louis. No. 1,355,256; Oct. 12; v. 279; p. 218.
Aeroplane. M. Petersen. No. 1,350,938; Aug. 24; v. 277; p. 717.
Aeroplane. C. M. Pettey. No. 1,360,976; Nov. 30; v. 280; p. 958.
Aeroplane. H. L. Pierce. No. 1,344,314; June 22; v. 275; p. 711.
Aeroplane. R. R. Reed. No. 1,354,002; Sept. 28; v. 278; p. 588.
Aeroplane. H. A. Robinson. No. 1,345,885; July 6; v. 276; p. 110.
Aeroplane. D. W. Sharkey. No. 1,355,624; Oct. 12; v. 279; p. 284.
Aeroplane. G. A. Spratt. No. 1,331,289; Feb. 17; v. 271; p. 463.
Aeroplane. C. R. Swanson. No. 1,331,221; Feb. 17; v. 271; p. 451.
Aeroplane. J. F. Webb, Sr. No. 1,348,463; Aug. 3; v. 277; p. 65.
Aeroplane. C. R. Wilson. No. 1,345,726; July 6; v. 276; p. 78.
Aeroplane. C. R. Wittemann. No. 1,341,029; May 25; v. 274; p. 652.
Aeroplane. P. T. Wolfe and W. H. Bovard. No. 1,353,692; Sept. 21; v. 278; p. 484.
Aeroplane-body. H. L. Haskell. No. 1,344,634; June 29; v. 275; p. 840.
Aeroplane-brake. G. L. Davis. No. 1,343,769; June 15; v. 275; p. 540.
Aeroplane-brake. C. W. Shaw. No. 1,360,454; Nov. 30; v. 280; p. 856.
Aeroplane construction. T. D. Carneal. No. 1,355,088; Oct. 5; v. 279; p. 127.
Aeroplane construction. H. G. Hooper. No. 1,331,150; Feb. 17; v. 271; p. 438.
Aeroplane construction. H. G. Hooper. No. 1,347,040; July 20; v. 276; p. 459.
Aeroplane construction. H. G. Hooper. No. 1,348,996; Aug. 10; v. 277; p. 219.
Aeroplane construction. H. G. Hooper. No. 1,351,852; Sept. 7; v. 278; p. 28.
Aeroplane construction. H. Kleckler. No. 1,329,342; Jan. 27; v. 270; p. 588.
Aeroplane control. V. De Dominicis and F. A. Reip. No. 1,348,548; Aug. 3; v. 277; p. 81.
Aeroplane control. B. F. Kenyon. No. 1,332,344; Mar. 2; v. 272; p. 32.
Aeroplane control. R. E. Mitton. No. 1,332,743; Mar. 2; v. 272; p. 109.
Aeroplane control. F. L. Morse. No. 1,336,977; Apr. 13; v. 273; p. 301.
Aeroplane control. J. F. Verner. No. 1,330,664; Feb. 10; v. 271; p. 278.
Aeroplane-control mechanism. H. Kleckler. No. 1,336,632; Apr. 13; v. 273; p. 235.
Aeroplane-controller, Automatic safety. W. O. and H. A. Keeling. No. 1,360,756; Nov. 30; v. 280; p. 915.
Aeroplane-controlling device. C. R. Fairey. No. 1,334,085; Mar. 16; v. 272; p. 473.
Aeroplane-controlling device. C. R. Fairey. No. 1,350,145; Aug. 17; v. 277; p. 517.
Aeroplane-controlling device. C. R. Fairey. No. 1,359,345; Nov. 16; v. 280; p. 524.
Aeroplane-engine carburation. G. J. Spohrer. No. 1,360,041; Nov. 23; v. 280; p. 707.
Aeroplane-drive. H. F. McNutt. No. 1,346,327; July 13; v. 276; p. 260.
Aeroplane-fitting. H. A. Robinson. No. 1,361,495; Dec. 7; v. 281; p. 104.
Aeroplane-fittings. H. A. Robinson. No. 1,358,247; Nov. 9; v. 280; p. 262.
Aeroplane-fuselage. G. Niedbala. No. 1,349,526; Aug. 10; v. 277; p. 325.
Aeroplane-fuselage. W. G. Tarrant. No. 1,329,682; Feb. 3; v. 271; p. 63.
Aeroplane height-indicator. L. B. Sperry. No. 1,339,006 May 4; v. 274; p. 66.
Aeroplane hoisting connection. H. Kleckler. No. 1,351,764; Sept. 7; v. 278; p. 10.
Aeroplane, Hovering. A. F. Zahn. No. 1,358,603; Nov. 9; v. 280; p. 334.
Aeroplane-kite. J. T. McLaughlin. No. 1,356,881; Oct. 19; v. 279; p. 473.
Aeroplane, Knockdown. G. Caproni. No. 1,357,542; Nov. 2; v. 280; p. 64.
Aeroplane landing-brake. J. D. Denson. No. 1,360,901; Nov. 30; v. 280; p. 943.
Aeroplane landing-carriage. R. J. L. Moineau. No. 1,360,668; Nov. 30; v. 280; p. 898.
Aeroplane landing device. E. L. Martin. No. 1,352,077; Sept. 7; v. 278; p. 71.
Aeroplane landing-stage. J. A. Caulkins. No. 1,340,325; May 18; v. 274; p. 447.
Aeroplane level-indicator. J. S. Coxey. No. 1,361,367; Dec. 7; v. 281; p. 77.
Aeroplane load-transfer device. J. Kurs. No. 1,356,990; Oct. 26; v. 279; p. 639.
Aeroplane, Manual. J. Kukell. No. 1,357,240; Nov. 2; v. 280; p. 8.
Aeroplane mechanisms, Automatic switch-operating device for. E. E. G. Hedenstrom. No. 1,336,138; Apr. 6; v. 273; p. 82.
Aeroplane, Metal fitting for connecting together certain structural members of an. P. J. R. Postel-Vinay. No. 1,340,626; May 18; v. 274; p. 504.
Aeroplane, Military. O. A. Ross. No. 1,349,105; Aug. 10; v. 277; p. 241.
Aeroplane-motor. F. Wood. No. 1,329,033; Jan. 27; v. 270; p. 531.

Digitized by Google

Aeroplane, Multiple. G. Caproni. No. 1,349,116; Aug. 10; v. 277; p. 243.
Aeroplane or hydroaeroplane construction. S. H. Tolman. No. 1,341,399; May 25; v. 274; p. 724.
Aeroplane-parachute. F. L. Watson. No. 1,332,150; Feb. 24; v. 271; p. 645.
Aeroplane-pilots, Protective hood for. A. E. Logan. No. 1,327,339; Jan. 6; v. 270; p. 85.
Aeroplane-propeller. S. D. Mott. No. 1,361,399; Dec. 7; v. 281; p. 84.
Aeroplane-propeller. R. M. Shaffer. No. 1,338,874; May 4; vol. 274; p. 41.
Aeroplane-propeller. E. W. Summers. No. 1,363,692; Dec. 28; v. 281; p. 672.
Aeroplane-propeller. J. E. Thompson. No. 1,332,528; Mar. 2; v. 272; p. 68.
Aeroplane-propeller and carrying a gun which fires axially through the propeller, Mounting an. H. Austin. No. 1,329,156; Jan. 27; v. 270; p. 555.
Aeroplane-propeller blade. W. A. Lorens. No. 1,361,598; Dec. 7; v. 281; p. 125.
Aeroplane propeller-blade. C. F. Wicker. No. 1,329,735; Feb. 3; v. 271; p. 73.
Aeroplane propeller-drive. A. J. Harpman. No. 1,329,081; Jan. 27; v. 270; p. 540.
Aeroplane-propelling means. J. S. Adams. No. 1,356,329; Oct. 19; v. 279; p. 463.
Aeroplane rudder-bar. W. H. McMullen. No. 1,341,567; May 25; v. 274; p. 756.
Aeroplane-rudder construction. F. J. Plym. No. 1,335,527; Mar. 30; v. 272; p. 850.
Aeroplane safety device. L. Kovacs. No. 1,346,214; July 13; v. 276; p. 236.
Aeroplane safety-parachute and means of launching same from aeroplanes. H. M. Crowther. No. 1,327,592; Jan. 6; v. 270; p. 133.
Aeroplane-shell. J. W. Nieukirk. No. 1,344,558; June 22; v. 275; p. 760.
Aeroplane-stabilizer. A. Chiarelli. No. 1,340,214; May 18; v. 274; p. 426.
Aeroplane starting and landing platform. I. F. Wielgosz. No. 1,345,335; June 29; v. 275; p. 974.
Aeroplane steering mechanism. H. O. Watts. No. 1,331,300; Feb. 17; v. 271; p. 465.
Aeroplane-tractor. J. Ingells. No. 1,353,961; Sept. 28; v. 278; p. 580.
Aeroplane, Twin-propeller. L. B. Sperry. No. 1,353,544; Sept. 21; v. 278; p. 452.
Aeroplane-undercarriage. F. L. Guillemet. No. 1,340,483; May 18; v. 274; p. 477.
Aeroplane-wing construction. F. J. Plym. No. 1,337,951; Apr. 20; v. 273; p. 561.
Aeroplane-wing structure. N. W. Dalton. No. 1,355,738; Oct. 12; v. 279; p. 306.
Aeroplane-wings, Variable-camber rib for. H. F. Parker. No. 1,341,758; June 1; v. 275; p. 29.
Aeroplanes, Aerofoil for. A. A. Holle. No. 1,337,515; Apr. 20; v. 273; p. 477.
Aeroplanes, airships, and other aircraft, Safety device for use with. A. A. Lewis. No. 1,339,828; May 11; v. 274; p. 296.
Aeroplanes and vessels, System of delivering mail between. W. Grunow. No. 1,357,861; Nov. 2; v. 280; p. 126.
Aeroplanes, Auxiliary propelling attachment for. N. Beaudin. No. 1,362,466; Dec. 14; v. 281; p. 342.
Aeroplanes, Brake for. W. E. Karnes. No. 1,356,289; Oct. 19; v. 279; p. 455.
Aeroplanes, Combined incidence and side-slip indicator for. O. A. Danielson. No. 1,342,944; June 8; v. 275; p. 314.
Aeroplanes, Control for dual-control. F. L. van Allen. No. 1,327,183; Jan. 6; v. 270; p. 57.
Aeroplanes, Electrical system for. L. M. Wolffsohn. No. 1,362,380; Dec. 14; v. 281; p. 325.
Aeroplanes, Foldable landing-gear for. F. McCarroll. No. 1,353,407; Sept. 21; v. 278; p. 425.
Aeroplanes, Folding landing-gear for. M. H. Megaffin. No. 1,333,329; Mar. 9; v. 272; p. 270.
Aeroplanes, Junction-piece for connecting together certain structural members of P. J. R. Postel-Vinay. No. 1,345,024; June 29; v. 275; p. 914.
Aeroplanes, Landing device for. A. C. Warren. No. 1,349,242; Aug. 10; v. 277; p. 268.
Aeroplanes, Life-saving device for. K. O. K. Osterday. No. 1,332,143; Feb. 24; v. 271; p. 644.
Aeroplanes, Life-saving device for. F. A. Townsley. No. 1,337,336; Apr. 20; v. 273; p. 444.
Aeroplanes, Liquid container for. L. L. Martineau. No. 1,351,395; Aug. 31; v. 277; p. 870.
Aeroplanes, Luminous indicating device for the night landing of. J. G. Hopper. No. 1,356,285; Oct. 19; v. 279; p. 454.
Aeroplanes, Means for starting the engines of. G. S. Wilkinson. No. 1,331,791; Feb. 24; v. 271; p. 578.
Aeroplanes, Multiple control for. W. H. Phippe. No. 1,355,355; Oct. 12; v. 279; p. 282.
Aeroplanes, Nippers for making piano-chord loops for. F. Athimon. No. 1,330,229; Feb. 10; v. 271; p. 197.
Aeroplanes, Parachute and launching device for. J. L. Pflueger. No. 1,327,355; Jan. 6; v. 270; p. 88.
Aeroplanes, Portable steps for use in rigging. G. Clowes. No. 1,361,828; Dec. 14; v. 281; p. 216.
Aeroplanes, Propeller mud-guard for. N. A. Strand. No. 1,341,202; May 25; v. 274; p. 686.
Aeroplanes, Rate-of-ascent indicator for. F. M. Champlin. No. 1,338,358; Apr. 27; v. 273; p. 707.
Aeroplanes, Reinforced beam for wing-panels of. G. A. Schneller. No. 1,335,609; Mar. 30; v. 272; p. 866.
Aeroplanes, Self-leveling basket for. J. Juricich. No. 1,336,702; Apr. 13; v. 273; p. 249.
Aeroplanes, Shock-absorbing apparatus for landing-carriages of. J. J. M. A. E. Schneider. No. 1,332,764; Mar. 2; v. 272; p. 118.
Aeroplanes, Speed-reducing device for. G. Pettigrew. No. 1,356,999; Oct. 26; v. 279; p. 641.
Aeroplanes, Stabilizing apparatus for. H. E. Kittredge. No. 1,334,615; Mar. 23; v. 272; p. 619.
Aeroplanes, Stabilizing control for. A. J. Macy. No. 1,326,945; Jan. 6; v. 270; p. 12.
Aeroplanes, Starting and landing machine for. J. H. Akin. No. 1,342,145; June 1; v. 275; p. 105.
Aeroplanes, Storage battery adapted particularly for. T. A. Willard. No. 1,327,650; Jan. 13; v. 270; p. 206.
Aeroplanes, Wind control for. W. C. Reutter. No. 1,354,687; Oct. 5; v. 279; p. 48.
Agates and similar stones, Machine for cutting. O. C. Reeves. No. 1,342,647; June 8; v. 275; p. 254.
Agitating device. P. G. Campbell. No. 1,349,492; Aug. 10; v. 277; p. 318.
Agitating device. W. Lindsay. No. 1,328,576; Jan. 20; v. 270; p. 417.
Agitating device. C. F. Woodhull. No. 1,358,045; Nov. 9; v. 280; p. 223.
Agraffe. R. W. Gertz. No. 1,353,904; Sept. 28; v. 278; p. 568.
Agricultural implement. S. L. Allen. No. 1,338,273; Apr. 27; v. 273; p. 691.
Agricultural implement. S. L. Allen. No. 1,351,984; Sept. 7; v. 278; p. 54.
Agricultural implement. W. R. Barker. No. 1,343,896; June 22; v. 275; p. 629.
Agricultural implement. H. V. Calkins. No. 1,328,124; Jan. 13; v. 270; p. 294.
Agricultural implement. S. S. Cary. No. 1,334,847; Mar. 23; v. 272; p. 569.
Agricultural implement. J. S. Dalen. No. 1,329,888; Feb. 3; v. 271; p. 102.
Agricultural implement. E. J. Dougherty. No. 1,331,808; Feb. 24; v. 271; p. 582.
Agricultural implement. A. Ellerman. No. 1,333,477; Mar. 9; v. 272; p. 298.
Agricultural implement. P. P. Fazzari. No. 1,344,494; June 22; v. 275; p. 747.
Agricultural implement. E. Fowler and J. V. Lewis. No. 1,337,126; Apr. 13; v. 273; p. 329.
Agricultural implement. C. C. Hamilton. No. 1,341,231; May 25; v. 274; p. 691.
Agricultural implement. E. M. Heylman. No. 1,333,980; Mar. 16; v. 272; p. 454.
Agricultural implement. N. Hoynack. No. 1,343,564; June 15; v. 275; p. 499.
Agricultural implement. J. B. Mackey. No. 1,342,125; June 1; v. 275; p. 101.
Agricultural implement. R. B. Mason. No. 1,344,552; June 22; v. 275; p. 758.
Agricultural implement. J. W. Scott. No. 1,345,964; July 6; v. 276; p. 126.
Agricultural implement. F. Sherwin. No. 1,341,724; June 1; v. 275; p. 22.
Agricultural implement. J. Versteeg. No. 1,348,255; Aug. 3; v. 277; p. 25.
Agricultural implement. Balance. D. Y. Wheatley. No. 1,353,366; Sept. 21; v. 278; p. 417.
Agricultural-implement blade. E. A. Schmutte. No. 1,346,261; July 13; v. 276; p. 246.
Agricultural implement, Motor-driven. X. Charmes. No. 1,361,015; Dec. 7; v. 281; p. 7.
Agricultural-implement seat. J. C. Brian. No. 1,345,830; July 6; v. 276; p. 98.
Agricultural implement, Self-propelled. E. W. Thomas. No. 1,336,057; Apr. 6; v. 273; p. 67.
Agricultural machine. H. J. Davis. No. 1,352,725; Sept. 14; v. 278; p. 232.
Agricultural machine. L. A. Helms. No. 1,331,641; Feb. 24; v. 271; p. 550.
Agricultural machine. R. C. Howser. No. 1,345,189; June 29; v. 275; p. 946.
Agricultural machine. T. P. Payne. No. 1,355,774; Oct. 12; v. 279; p. 313.
Agricultural machine. A. E. Rice. No. 1,357,902; Nov. 2; v. 280; p. 134.
Agricultural machine, Motor-driven. L. A. Greene. No. 1,343,866; June 15; v. 275; p. 560.
Agricultural machines, Driving and running gear for. O. Frankman. No. 1,337,510; Apr. 20; v. 273; p. 477.
Agricultural tractors to the soil, Device for increasing the adherence of. P. A. M. Delleuvin. No. 1,327,376; Jan. 6; v. 270; p. 92.
Air and car coupling, Multiple electric. R. G. Averill and C. H. Tomlinson. No. 1,353,557. Sept. 21; v. 278; p. 455.

Digitized by Google

Alphabetical list of inventions—Continued.

Air and gas mixer. A. W. Elling. No. 1,348,272; Aug. 3; v. 277; p. 28.
Air and non-condensable gases, Apparatus for exhausting. A. E. L. Scanes. No. 1,346,980; July 20; v. 276; p. 447.
Air and other gases, Apparatus for the production of masses or solutions free from. B. Borzykowski. No. 1,357,947; Nov. 9; v. 280; p. 204.
Air and other gases or fluids, Propulsion of. H. Ayrton. No. 1,327,975; Jan. 13; v. 270; p. 266.
Air and water supplying device, Auxiliary. C. W. Jenkins. No. 1,351,170; Aug. 31; v. 277; p. 824.
Air, Apparatus for causing pulsation of. G. K. V. Johanson. No. 1,363,878; Dec. 28; v. 281; p. 708.
Air, Apparatus for liquefying. J. F. Place. No. 1,326,961; Jan. 6; v. 270; p. 15.
Air-back for stokers. M. Alpern. No. 1,343,702; June 15; v. 275; p. 526.
Air-bag. P. Powell. No. 1,329,208; Jan. 27; v. 270; p. 564.
Air-bag. C. L. Smith and E. S. Webster. No. 1,356,173; Oct. 19; v. 279; p. 433.
Air-blower. W. P. Denton. No. 1,333,294; Mar. 9; v. 272; p. 264.
Air blower and distributer. W. A. Hoffman. No. 1,339,510; May 11; v. 274; p. 236.
Air-blowing fitting with internal cleaning-wire. T. Shipley. No. 1,331,283; Feb. 17; v. 271; p. 462.
Air-brake. L. L. Bonham. No. 1,359,664; Nov. 23; v. 280; p. 631.
Air-brake. M. Cooper. No. 1,332,428; Mar. 2; v. 272; p. 49.
Air-brake apparatus. S. G. Neal. No. 1,335,291; Mar. 30; v. 272; p. 806.
Air-brake apparatus, Field-valve for. S. G. Neal. No. 1,361,278; Dec. 7; v. 281; p. 59.
Air-brake apparatus, Triple valve for. S. G. Neal. No. 1,361,279; Dec. 7; v. 281; p. 59.
Air-brake, Automobile. C. T. Alexander. No. 1,341,531; May 25; v. 274; p. 749.
Air-brake-controlling mechanism. T. W. Scott. No. 1,327,968; Jan. 13; v. 270; p. 264.
Air-brake-coupling attachment. V. P. McVoy. No. 1,359,408; Nov. 16; v. 280; p. 536.
Air-brake system. G. Macloskie. No. 1,339,962; May 11; v. 274; p. 322.
Air-brake system and automatic train control and signal mechanism, Combination automatic and manual. A. L. Ruthven. No. 1,335,260; Mar. 30; v. 272; p. 800.
Air-brake system, double-heading. E. R. Hewitt. No. 1,345,181; June 29; v. 275; p. 944.
Air-brake systems, Automatic control for. L. J. Root. No. 1,330,395; Feb. 10; v. 271; p. 228.
Air-brake valve. C. A. Nelson. No. 1,338,190; Apr. 27; v. 273; p. 675.
Air-brakes, Apparatus for electrically controlling. E. I. La Count. No. 1,336,465; Apr. 13; v. 273; p. 203.
Air-brakes, Cut-off and relief valve for. E. P. Clauss. No. 1,350,138; Aug. 17; v. 277; p. 515.
Air-break switch. F. Bechoff and M. M. Samuels. No. 1,334,645; Mar. 23; v. 272; p. 624.
Air-brush. B. E. Holton. No. 1,349,154; Aug. 10; v. 277; p. 251.
Air-brush plant, Portable. C. A. Murphy. No. 1,347,790; July 27; v. 276; p. 664.
Air-cleaner. J. W. Livermore. No. 1,363,331; Dec. 28; v. 281; p. 602.
Air-cleaner. J. Rüse. No. 1,355,504; Oct. 12; v. 279; p. 261.
Air cleaning, moistening, and cooling apparatus. W. F. Cox. No. 1,339,105; May 4; v. 274; p. 85.
Air-cleaning ventilator. A. C. Bennett. No. 1,342,152; June 1; v. 275; p. 106.
Air collecting and delivering apparatus. W. D. Scott. No. 1,327,926; Jan. 13; v. 270; p. 257.
Air-compressing means. A. G. Jones. No. 1,333,923; Mar. 16; v. 272; p. 442.
Air-compressor. W. C. Hampton. No 1,344,509; June 22; v. 275; p. 750.
Air-compressor. C. F. Johnson. No. 1,354,402; Sept. 28; v. 278; p. 670.
Air-compressor. S. A. Johnson. No. 1,350,159; Aug. 17; v. 277; p. 519.
Air-compressor. A. B. Pedersen. No. 1,333,774; Mar. 16; v. 272; p. 415.
Air-compressor. G. Phillips. No. 1,331,209; Feb. 17; v. 271; p. 449.
Air-compressor. B. D. Thompson. No. 1,345,973; July 6; v. 27o; p. 128.
Air compressor and regulator. G. F. Wolfe. No. 1,342,487; June 8; v. 275; p. 224.
Air-compressor, Compound. O. Jones. No. 1,331,111; Feb. 17; v. 271; p. 431.
Air-compressor, Engine-driven. I. Lychyj. No. 1,343,270; June 15; v. 275; p. 441.
Air-compressor, Hydraulic. H. M. De Witt. No. 1,353,897; Sept. 28; v. 278; p. 567.
Air-compressor regulator. C. Wainwright. No. 1,353,098; Sept. 14; v. 278; p. 305.
Air-compressor, Rotary. H. O. Jackson. No. 1,352,750; Sept. 14; v. 278; p. 237.
Air-compressor, Rotary. H. O. Jackson. No. 1,352,751; Sept. 14, v. 278; p. 237.
Air-compressor, Wave-power. S. P. Stein. No. 1,358,259; Nov. 9; v. 280; p. 265.
Air-compressors, Automatic safety device for. J. Tiffin. No. 1,358,798; Nov. 16; v. 280; p. 418.
Air-compressors, Dust-arrester for. J. R. Ricketts. No. 1,345,405; July 6; v. 276; p. 16.
Air control. H. M. Cheek. No. 1,341,260; May 25; v. 274; p. 696.
Air control, Automatic. U. S. G. Hinton. No. 1,330,265; Feb. 10; v. 271; p. 203.
Air-controlling attachment. F. Schwarzer. No. 1,332,363; Mar. 2; v. 272; p. 37.
Air-cooling apparatus, Engine. S. Munson. No. 1,359,727; Nov. 23; v. 280; p. 644.
Air-current-producing means. H. F. Morse. No. 1,334,781; Mar. 23; v. 272; p. 651.
Air-cushion. A. H. Parrott and H. Round. No. 1,331,359; Feb. 17; v. 271; p. 476.
Air-cushion device. M. Petterson. No. 1,359,838; Nov. 23; v. 280; p. 666.
Air-cushion, Hydraulic. J. D. Langdon. No. 1,350,414; Aug. 24; v. 277; p. 616.
Air-deflecting device. C. T. Myers. No. 1,352,679; Sept. 14; v. 278; p. 223.
Air-diffusion machine. V. Slater. No. 1,346,471; July 13; v. 276; p. 287.
Air-drill. G. Juresisin. No. 1,338,137; Apr. 27; v. 273; p. 665.
Air-driven motor. A. H. Cook. No. 1,361,019; Dec. 7; v. 281; p. 8.
Air-drying apparatus. J. H. Woodard. No. 1,341,405; May 25; v. 274; p. 725.
Air-ejector. H. F. Schmidt. No. 1,329,549; Feb. 3; v. 271; p. 39.
Air-hammer attachment. A. Verdesca. No. 1,344,523; June 22; v. 275; p. 753.
Air-heater. G. L. Dixon. No. 1,359,234; Nov. 16; v. 280; p. 501.
Air-heater. C. E. Feazel. No. 1,328,272; Jan. 20; v. 270; p. 358.
Air-heater. W. Spoelstra. No. 1,361,351; Dec. 7; v. 281; p. 74.
Air-heater, Electric. E. A. Martin. No. 1,332,052; Feb. 24; v. 271; p. 628.
Air-heating apparatus. E. Morley. No. 1,333,870; Mar. 16; v. 272; p. 433.
Air-heating attachment. G. D. Kennedy. No. 1,349,461; Aug. 10; v. 277; p. 311.
Air-heating furnace. F. A. C. Skinner. No. 1,343,752; June 15; v. 275; p. 536.
Air-heating structure. P. F. Dundon. No. 1,334,741; Mar. 23; v. 272; p. 643.
Air-hose stand. L. J. Monahan. No. 1,360,559; Nov. 30; v. 280; p. 876.
Air, Humidifying. R. W. Hardie. No. 1,336,225; Apr. 6; v. 273; p. 98.
Air-inlet device. V. H. Van Sant. No. 1,342,193; June 1; v. 275; p. 114.
Air-inlet device, Auxiliary. H. C. Moore, and C. G. Butler. No. 1,334,549; Mar. 23; v. 272; p. 607.
Air-lift apparatus. E. M. Rogers. No. 1,339,137; May 4; v. 274; p. 92.
Air-lift footpiece. A. B. Jennings. No. 1,343,510; June 15; v. 275; p. 488.
Air machine and propeller. W. J. H. Strong. No. 1,344,661; June 29; v. 275; p. 645.
Air, Means for introducing auxiliary. A. A. Jackson. No. 1,340,228; May 18; v. 274; p. 429.
Air-moistener. R. W. Hardie. No. 1,377,766; Apr. 20; v. 273; p. 526.
Air-moistener. R. W. Hardie. No. 1,343,718; June 15; v. 275; p. 530.
Air moistening and heating system. R. W. Hardie. No. 1,342,214; June 1; v. 275; p. 118.
Air-moistening device. G. R. Barksdale. No. 1,330,574; Feb. 10; v. 271; p. 261.
Air-motor. A. Alberico. No. 1,358,669; Nov. 9; v. 280; p. 348.
Air-motor. O. L. Howe. No. 1,342,811; June 8; v. 275; p. 288.
Air-motor. D. R. Oliver. No. 1,345,022; June 29; v. 275; p. 913.
Air-motor. E. Plemmons. No. 1,336,315; Apr. 6; v. 273; p. 115.
Air or gas, Storage cylinder or vessel for compressed. S. J. Murphy. No. 1,350,666; Aug. 24; v. 277; p. 665.
Air or other gaseous mixtures, Apparatus and method for separating the constituents of. R. Wucherer and F. Pollitzer. No. 1,360,853; Nov. 30; v. 280; p. 934.
Air or other gases, Production of masses or solutions free from. B. Borzykowski. No. 1,357,946; Nov. 9; v. 280; p. 203.
Air or water, Apparatus for the determination of vertical velocities in or of. C. Schoute, F. A. van Heyst, and N. E. G. Meyer. No. 1,345,556; July 6; v. 276; p. 45.
Air or water pressure tank. J. F. Brown. No. 1,347,934; July 27; v. 276; p. 692.
Air power-drive, Compressed-. G. C. Alstad. No. 1,349,036; Aug. 10; v. 277; p. 227.

Digitized by Google

Air-pressure control, Automatic. A. C. Kingsbury. No. 1,336,301; Apr. 6; v. 273; p. 112.
Air-pressure, Device for controlling. J. C. Hagey. No. 1,359,698; Nov. 23; v. 280; p. 638.
Air-pressure liquid-transfer device. H. G. Diffenbaugh. No. 1,328,133; Jan. 13; v. 270; p. 296.
Air-propeller. V. L. Bekeñ. No. 1,340,210; May 18; v. 274; p. 426.
Air-propeller. S. D. Mott. No. 1,361,277; Dec. 7; v. 281; p. 59.
Air-pump. R. C. Hilton. No. 1,363,788; Dec. 28; v. 281; p. 690.
Air-pump. G. A. Mortier. No. 1,363,898; Dec. 28; v. 281; p. 712.
Air regulator and deflector, Combined. J. Closs. No. 1,341,494; May 25; v. 274; p. 742.
Air-release, Automatic. H. J. Rickon. No. 1,329,210; Jan. 27; v. 270; p. 565.
Air rivet-bucker. C. C. Bailey. No. 1,363,551; Dec. 28; v. 281; p. 645.
Air-separator. G. S. Emerick. No. 1,355,596; Oct. 12; v. 279; p. 278.
Air-separator. W. A. Gibson and C. E. Needham. No. 1,346,015; July 6; v. 276; p. 136.
Air-spring. L. R. Gruss. No. 1,330,527; Feb. 10; v. 271; p. 252.
Air-spring. L. R. Gruss. No. 1,343,560; June 15; v. 276; p. 498.
Air-spring suspension. R. Liebau. No. 1,363,798; Dec. 28; v. 281; p. 692.
Air-suction regulator. H. H. Meyer. No. 1,344,921; June 29; v. 275; p. 895.
Air-supplying apparatus. H. M. Herring. No. 1,331,473; Feb. 17; v. 271; p. 498.
Air-supplying-valve attachment. M. C. Kirkpatrick. No. 1,349,210; Aug. 10; v. 277; p. 262.
Air transport systems, Blowing-tank for compressed-. H. A. Kimber. No. 1,348,010; July 27; v. 276; p. 708.
Air-valve device. A. J. Beaton. No. 1,341,101; May 25; v. 274; p. 666.
Air-vent. C. F. Nystrom. No. 1,350,109; Aug. 17; v. 277; p. 510.
Air-vent, Automatic. P. Carroll. No. 1,336,280; Apr. 6; v. 273; p. 108.
Air-washer. W. H. L. Donaldson. No. 1,349,608; Aug. 17; v. 277; p. 414.
Air-washer. E. J. Kratochvil. No. 1,345,681; July 6; v. 276; p. 69.
Aircraft. E. B. Carns, No. 1,340, 154; May 18; v. 274; p. 416.
Aircraft. E. B. Carns. No. 1,343,707; June 15; v. 275; p. 528.
Aircraft. T. O. Perry. No. 1,345,101; June 29; v. 275; p. 928.
Aircraft. J. Whalen. No. 1,332,787; Mar. 2; v. 272; p. 117.
Aircraft and making the same, Fabric for. N. A. T. N. Feary. No. 1,327,707; Jan. 13; v. 270; p. 216.
Aircraft, Apparatus for facilitating the landing of. W. Mortimer and F. Potten. No. 1,342,860; June 8; v. 275; p. 298.
Aircraft, Apparatus for releasing bodies from. A. H. Gledhill. No. 1,338,724; May 4; v. 274; p. 14.
Aircraft construction. J. A. Steinmetz. No. 1,332,980; Mar. 9; v. 272; p. 195.
Aircraft, Construction of. J. J. M. A. E. Schneider. No. 1,342,353; June 1; v. 275; p. 144.
Aircraft, Construction of spars and like members of. J. D. North. No. 1,360,671; Nov. 30; v. 280; p. 898.
Aircraft control. B. F. Kenyon. No. 1,332,345; Mar. 2; v. 272; p. 32.
Aircraft-controlling gear. A. V. Roe. No. 1,343,850; June 15; v. 275; p. 556.
Aircraft, Detachable wings for. F. H. Page. No. 1,329,846; Feb. 3; v. 271; p. 94.
Aircraft, Flare for use on. H. E. S. Holt. No. 1,360,527; Nov. 30; v. 280; p. 870.
Aircraft, Folding landing-gear for. F. McCarroll. No. 1,329,533; Feb. 3; v. 271; p. 86.
Aircraft for receiving and delivering mail and merchandise, Apparatus on. E. C. Hanson. No. 1,347,157; July 20; v. 276; p. 481.
Aircraft-frames, Connection for members of. F. H. Page. No. 1,328,963; Jan. 27; v. 270; p. 519.
Aircraft-girder. E. E. Brown. No. 1,351,614; Aug. 31; v. 277; p. 913.
Aircraft, Gun-mounting for use on. R. Allen. No. 1,348,072; July 27; v. 276; p. 721.
Aircraft having inherent stability. J. A. Fleming. No. 1,344,999; June 29; v. 275; p. 909.
Aircraft landing device. A. V. Roe. No. 1,362,511; Dec. 14; v. 281; p. 351.
Aircraft, Landing-gear for. H. Kleckler. No. 1,336,633; Apr. 13; v. 273; p. 235.
Aircraft, Machinery for releasing bombs or other articles from. F. H. Page. No. 1,357,650; Nov. 2; v. 280; p. 85.
Aircraft, Means for controlling. R. M. Ruck. No. 1,355,510; Oct. 12; v. 279; p. 262.
Aircraft, Metal spar or girder for. E. E. Brown. No. 1,331,412; Feb. 17; v. 271; p. 480.
Aircraft, Navigating. J. A. Steinmetz. No. 1,340,573; May 18; v. 274; p. 494.
Aircraft, Penetration-cone for. G. Delage. No. 1,331,187; Feb. 17; v. 271; p. 445.
Aircraft propulsion. F. L. Church. No. 1,356,429; Oct. 19; v. 279; p. 482.
Aircraft propulsion. S. D. Mott. No. 1,361,276; Dec. 7; v. 281; p. 58.
Aircraft, Providing a launching-way for. J. A. Steinmetz. No. 1,363,539; Dec. 28; v. 281; p. 643.
Aircraft safety device. G. Ajello. No. 1,354,367; Sept. 28; v. 278; p. 663.
Aircraft seat-support. A. V. Roe. No. 1,350,266; Aug. 17; v. 277; p. 540.
Aircraft, Supply means for. G. L. Cabot. No. 1,328,560; Jan. 20; v. 270; p. 414.
Aircraft, Undercarriage for. F. H. Page. No. 1,332,567; Mar. 2; v. 272; p. 75.
Aircraft, Wind-driven generator for. E. A. Sperry. No. 1,362,753; Dec. 21; v. 281; p. 450.
Aircraft, Wing and similar member of. F. H. Page. No. 1,353,666; Sept. 21; v. 278; p. 478.
Aircraft, Wing-propeller for. F. F. Simons. No. 1,355,112; Oct. 5; v. 279; p. 131.
Airplane. D. Dobbins. No. 1,336,946; Apr. 13; v. 273; p. 296.
Airplane. D. Dobbins. No. 1,336,947; Apr. 13; v. 273; p. 296.
Airplane. J. E. Eaton. No. 1,340,707; May 18; v. 274; p. 520.
Airplane. T. L. Eggleston. No. 1,347,084; July 20; v. 276; p. 468.
Airplane. G. C. Gillespie and F. W. Barker. No. 1,359,590; Nov. 23; v. 280; p. 617.
Airplane. J. D. Hill. No. 1,347,857; July 27; v. 276; p. 678.
Airplane. D. V. Kaufman. No. 1,335,690; Mar. 30; v. 272; p. 881.
Airplane. H. Kleckler. No. 1,336,405; Apr. 6; v. 273; p. 132.
Airplane. B. H. Mull. No. 1,335,852; Apr. 6; v. 273; p. 27.
Airplane. H. C. Neal. No. 1,338,247; Apr. 27; v. 273; p. 686.
Airplane. A. R. Smith. No. 1,346,472; July 13; v. 276; p. 288.
Airplane. A. R. Smith. No. 1,361,502; Dec. 7; v. 281; p. 105.
Airplane. C. F. Stanley. No. 1,345,970; July 6; v. 276; p. 127.
Airplane. J. Taneyhill. No. 1,331,402; Feb. 17; v. 271; p. 484.
Airplane. H. P. Van Keuren. No. 1,346,570; July 13; v. 276; p. 307.
Airplane, Artillery-. P. Gerli and O. A. Ross. No. 1,342,802; June 8; v. 275; p. 286.
Airplane bomb-sight. E. G. F. R. du Mazuel. No. 1,360,735; Nov. 30; v. 280; p. 911.
Airplane-brake. A. S. Flack. No. 1,329,390; Feb. 3; v. 271; p. 9.
Airplane construction. F. J. Plym. No. 1,348,374; Aug. 3; v. 277; p. 48.
Airplane-control-surface-operating brace. W. S. Burgess. No. 1,357,950; Nov. 9; v. 280; p. 204.
Airplane-cowling. J. M. Williams, Jr. No. 1,329,489; Feb. 3; v. 271; p. 28.
Airplane driving mechanism. F. Glatz. No. 1,338,435; Apr. 27; v. 273; p. 721.
Airplane-fitting. G. H. Curtiss. No. 1,363,844; Dec. 28; v. 281; p. 702.
Airplane-fitting. J. F. Meade and E. V. Church. No. 1,355,767; Oct. 12; v. 279; p. 311.
Airplane-fuselage. W. L. Gilmore and J. F. Meade. No. 1,355,741; Oct. 12; v. 279; p. 306.
Airplane-fuselage. J. W. Rapp and J. Vanorio. No. 1,363,996; Dec. 28; v. 281; p. 781.
Airplane-fuselage and process therefor, Knockdown. M. W. Mix. No. 1,354,677; Oct. 5; v. 279; p. 46.
Airplane-gun-control system, Synchronized. F. Wenner. No. 1,342,729; June 8; v. 275; p. 271.
Airplane-hangars or other large openings, Multiple sliding door for. H. A. Johnson. No. 1,352,606; Sept. 14; v. 278; p. 208.
Airplane landing-gear. J. A. Roché. No. 1,329,477; Feb. 3; v. 271; p. 26.
Airplane-launching apparatus. L. J. Le Mesurier. No. 1,347,105; July 20; v. 276; p. 471.
Airplane, Model-. L. L. Kaess. No. 1,333,257; Mar. 9; v. 272; p. 257.
Airplane-radiators, Shock-absorber for. P. J. R. Postel-Vinay. No. 1,337,157; Apr. 13; v. 273; p. 335.
Airplane-rib. J. W. Rapp and J. Vanorio. No. 1,357,209; Oct. 26; v. 279; p. 681.
Airplane running-gear. J. W. Rapp and J. Vanorio. No. 1,357,898; Nov. 2; v. 280; p. 133.
Airplane safety attachment. R. P. Fox. No. 1,348,704; Aug. 3; v. 277; p. 111.
Airplane strut member. M. W. Mix. No. 1,338,836; May 4; v. 274; p. 34.
Airplane-wing. J. Petrovitch. No. 1,353,179; Sept. 21; v. 278; p. 382.
Airplane-wing-structure truss. G. H. Curtiss. No. 1,351,743; Sept. 7; v. 278; p. 6.
Airplanes, Dual control for. I. M. Laddon. No. 1,329,415; Feb. 3; v. 271; p. 18.

Digitized by Google

Alphabetical list of inventions—Continued.

Airplanes, Instrument adapted to indicate the longitudinal and lateral inclination of. E. R. Keiner. No. 1,359,711; Nov. 23; v. 280; p. 641.
Airplanes, Trailing edge for. H. Macleod. No. 1,355,611; Oct. 12; v. 279; p. 281.
Airship. C. C. Berry. No. 1,342,428; June 15; v. 275; p. 472.
Airship. G. F. Coffelt. No. 1,344,486; June 22; v. 275; p. 746.
Airship. Q. V. Distefano. No. 1,328,369; Jan. 20; v. 270; p. 377.
Airship. R. R. Lederer. No. 1,358,453; Nov. 9; v. 280; p. 305.
Airship. S. Marsek. No. 1,331,517; Feb. 24; v. 271; p. 527.
Airship. H. Nordmark. No. 1,336,651; Apr. 13; v. 273; p. 238.
Airship. G. F. Ochs. No. 1,337,409; Apr. 20; v. 273; p. 458.
Airship. J. F. O'Grady. No. 1,330,389; Feb. 10; v. 271; p. 226.
Airship. V. Pritelli. No. 1,351,301; Aug. 31; v. 277; p. 851.
Airship and automobile, Combined dirigible. J. B. French. No. 1,329,393; Feb. 3; v. 271; p. 9.
Airship-car. J. McKechnie. No. 1,339,570; May 11; v. 274; p. 247.
Airship construction. G. Legros. No. 1,357,502; Nov. 2; v. 280; p. 56.
Airship, Dirigible. J. Janda. No. 1,340,053; May 11; v. 274; p. 338.
Airship of the torrés type. H. Kapferer. No. 1,360,646; Nov. 30; v. 280; p. 894.
Airship speed-indicator. N. B. Converse. No. 1,334;229; Mar. 16; v. 272; p. 500.
Airships, aeroplanes, &c., Shed for. G. Hervieu and P. M. G. Maréchal. No. 1,353,956; Sept. 28; v. 278; p. 579.
Airships, Apparatus for mooring. E. S. Ullmann. No. 1,351,931; Sept. 7; v. 278; p. 44.
Airships, Means for mooring. W. H. Watt. No. 1,356,245; Oct. 19; v. 279; p. 447.
Airships, Reinforcing structure for. R. H. Upson. No. 1,332,780; Mar. 2; v. 272; p. 116.
Alarm: *See*—
Auto burglar-alarm.
Automobile-alarm.
Automobile theft-alarm.
Burglar-alarm.
Clock-alarm.
Door-knob alarm.
Fire-alarm.
Latch and burglar-alarm.
Lock and burglar-alarm.
Rain-alarm.
Tire-alarm.
Vehicle-alarm.
Alarm. J. A. Chappuis. No. 1,341,298; May 25; v. 274; p. 704.
Alarm. G. J. Karro. No. 1,332,180; Feb. 24; v. 271; p. 651.
Alarm-actuating apparatus. J. R. Meadowcroft. No. 1,338,146; Apr. 27; v. 273; p. 667.
Alarm-actuating apparatus. J. R. Meadowcroft. No. 1,338,147; Apr. 27; v. 273; p. 667.
Alarm-controlling mechanism. L. M. Lewis. No. 1,339,567; May 11; v. 274; p. 247.
Alarm device. W. W. Miller. No. 1,349,904; Aug. 17; v. 277; p. 470.
Alarm device. A. J. N. Restivo. No. 1,357,187; Oct. 26; v. 279; p. 676.
Alarm mechanism. J. M. Butcher and E. B. Funston. No. 1,331,694; Feb. 24; v. 271; p. 560.
Alarm mounting and actuator. J. M. Butcher. No. 1,356,259; Oct. 19; v. 279; p. 450.
Alarm-signal, Visible. W. E. Manning. No. 1,331,818; Feb. 24; v. 271; p. 584.
Alarm system, Electric. M. Yarow. No. 1,335,707; Mar. 30; v. 272; p. 885.
Alarm system, Multiple. O. MacLanglois. No. 1,359,263; Nov. 16; v. 280; p. 507.
Alarms, Apparatus for operating. W. K. Hodgman. No. 1,328,994; Jan. 27; v. 270; p. 524.
Alarms, Circuit-closer for vehicle-. F. C. Potter. No. 1,340,344; May 18; v. 274; p. 451.
Album, Record-. M. Bridgman. No. 1,359,867; Nov. 23; v. 280; p. 672.
Alcohol and making same, Absolute. G. B. Frankforter. No. 1,350,254; Aug. 17; v. 277; p. 538.
Alcohol, Fermentation process for the production of acetone and butyl. C. Weizmann and G. A. Hamlyn. No. 1,329,214; Jan. 27; v. 270; p. 565.
Alcohol from liquids, Process and apparatus for extracting. F. Fehr. No. 1,345,437; July 6; v. 276; p. 21.
Alcohol in beverages, Process of and apparatus for estimating. W. M. Dehn. No. 1,333,905; Mar. 16; v. 272; p. 439.
Aldehyde condensation product capable of technical utilization, Manufacture of. H. John. No. 1,355,834; Oct. 19; v. 279; p. 365.
Aldehyde from acetylene, Preparation of acetic. A. Guyot. No. 1,343,715; June 15; v. 275; p. 529.
Aldehyde, Manufacture of acetic. H. Dreyfuss. No. 1,361,974; Dec. 14; v. 281; p. 246.
Aldehyde, Preparation of pyrocatechin. L. Schmidt. No. 1,326,973; Jan. 6; v. 270; p. 18.
Alkali cyanid. Apparatus for manufacturing. F. J. Metzger. No. 1,358,383; Nov. 9; v. 280; p. 290.
Alkali cyanid from alkali carbonate, Separating. F. J. Metzger. No. 1,337,019; Apr. 13; v. 273; p. 309.
Alkali-hydrate solution. H. W. Charlton. No. 1,334,989; Mar. 30; v. 272; p. 751.
Alkali-metal compounds from water-insoluble substances, Obtaining water-soluble. H. S. Blackmore. No. 1,355,381; Oct. 12; v. 279; p. 237.
Alkali-metal compounds from water-insoluble substances, Producing water soluble. H. S. Blackmore. No. 1,355,794; Oct. 12; v. 279; p. 316.
Alkali-metal compounds from water-insoluble substances, Securing water-soluble. H. S. Blackmore. No. 1,357,025; Oct. 26; v. 279; p. 646.
Alkali-metal compounds from water-insoluble substances, Yielding water-soluble. H. S. Blackmore. No. 1,355,588; Oct. 12; v. 279; p. 277.
Alkali-metal cyanid, Apparatus for manufacture of. F. J. Metzger. No. 1,358,014; Nov. 9; v. 280; p. 217.
Alkali-metal hydrates, Producing. H. W. Charlton. No. 1,346,002; July 6; v. 276; p. 133.
Alkali-metal hydroxids, Producing. S. S. Sadtler. No. 1,351,693; Aug. 31; v. 277; p. 928.
Alkali metal minerals, Decomposition of. E. Bergve. No. 1,346,365; July 13; v. 276; p. 266.
Alkali-metal phosphates and a salt produced therein, Making hydrogen containing. S. S. Sadtler. No. 1,357,120; Oct. 26; v. 279; p. 664.
Alkali-metal salt mixtures, Treating. J. A. Cullen. No. 1,363,091; Dec. 21; v. 281; p. 560.
Alkali-metal salt mixtures, Treating. J. A. Cullen. No. 1,362,092; Dec. 21; v. 281; p. 516.
Alkali package. J. Armstrong. No. 1,342,148; June 1; v. 275; p. 105.
Alkaliamids, Manufacture of. O. Liebknecht. No. 1,359,080; Nov. 16; v. 280; p. 472.
Alkaline accumulator. A. M. Cave. No. 1,350,956; Aug. 24; v. 277; p. 720.
Alkaline deposits, Recovering constituents of value from natural. C. Sundstrom. No. 1,349,445; Aug. 10; v. 277; p. 308.
Alkaline melts, Manufacture of reducing. E. Bergve. No. 1,354,451; Sept. 28; v. 278; p. 679.
Alkaline substances, Container for. G. W. Howlett. No. 1,355,976; Oct. 19; v. 279; p. 392.
Alkaline waters, Treating. N. T. Bacon. No. 1,330,573; Feb. 10; v. 271; p. 261.
Alkaloids, Enteric preparation of ipecac. J. K. Lilly. No. 1,334,463; Mar. 23; v. 272; p. 590.
Alkyl ether of starches and similar carbohydrates and producing same. L. Lilienfeld. No. 1,350,820; Aug. 24; v. 277; p. 695.
Alligator-wrench. H. G. Norwood. No. 1,328,389; Jan. 20; v. 270; p. 381.
Alloy. F. M. Becket. No. 1,333,151; Mar. 9; v. 272; p. 237.
Alloy. F. E. Carter. No. 1,355,811; Oct. 19; v. 279; p. 360.
Alloy. F. E. Carter. No. 1,357,272; Nov. 2; v. 280; p. 14.
Alloy. H. S. Cooper. No. 1,350,359; Aug. 24; v. 277; p. 605.
Alloy. F. A. Fahrenwald. No. 1,333,965; Mar. 16; v. 272; p. 451.
Alloy. C. G. Fink. No. 1,342,993; June 8; v. 275; p. 324.
Alloy. J. G. Homan. No. 1,352,367; Sept. 7; v. 278; p. 125.
Alloy. K. Ibe. No. 1,356,867; Oct. 19; v. 279; p. 470.
Alloy. Z. Jeffries and W. A. Gibson. No. 1,352,271; Sept. 7; v. 278; p. 107.
Alloy. Z. Jeffries and W. A. Gibson. No. 1,352,272; Sept. 7; v. 278; p. 107.
Alloy. T. Koch. No. 1,340,451; May 18; v. 274; p. 471.
Alloy. F. Milliken. No. 1,338,517; Apr. 27; v. 273; p. 737.
Alloy. F. Milliken. No. 1,338,518; Apr. 27; v. 273; p. 737.
Alloy. F. Milliken. No. 1,350,166; Aug. 17; v. 277; p. 521.
Alloy. F. Milliken. No. 1,351,673; Aug. 31; v. 277; p. 925.
Alloy. F. Milliken. No. 1,354,988; Oct. 5; v. 279; p. 107.
Alloy. F. Milliken. No 1,354,989; Oct 5; v. 279; p. 108.
Alloy. F. Milliken. No. 1,354,990; Oct. 5; v. 279; p. 108.
Alloy. F. Milliken. No. 1,360,773; Nov. 30; v. 280; p. 918.
Alloy. V. P. Taylor. No. 1,350,891; Aug. 24; v. 277; p. 708.
Alloy. G. L. Van Allen. No. 1,339,009; May 4; v. 274; p. 66.
Alloy, Acid-resisting. A. W. Clement. No. 1,333,706; Mar. 16; v. 272; p. 402.
Alloy and making same, Metallic. T. D. Stay. No. 1,352,322; Sept. 7; v. 278; p. 117.
Alloy and manufacture, Antifriction. L. M. Parkhurst. No. 1,359,194; Nov. 16; v. 280; p. 493.
Alloy, Chromium-steel. J. L. Cox. No. 1,333,654; Mar. 16; v. 272; p. 393.
Alloy-coated iron or steel article and coating same. J. L. Schueler. No. 1,357,907; Nov. 2; v. 280; p. 135.

Digitized by Google

Alloy, Corrosion-resisting ferrous. S. McClure. No. 1,341,992; June 1; v. 275; p. 74.
Alloy, Electric resistance. W. A. Scheuch. No. 1,337,276; Apr. 20; v. 273; p. 433.
Alloy for cable-casings, Metal. D. Stenguist. No. 1,360,045; Nov. 23; v. 280; p. 708.
Alloy for electric welding. E. J. Kingsbury. No. 1,350,317; Aug. 24; v. 277; p. 596.
Alloy for electrical contact-points. J. A. Williams. No. 1,358,908; Nov. 16; v. 280; p. 440.
Alloy, Hard lead. W. A. Cowan. No. 1,360,269; Nov. 30; v. 280; p. 820.
Alloy, Hard lead. T. F. Wettstein. No. 1,360,339; Nov. 30; v. 280; p. 833.
Alloy, Hard lead. G. H. Worrell. No. 1,360,348; Nov. 30; v. 280; p. 835.
Alloy, Lead. G. H. Worrell. No. 1,360,347; Nov. 30; v. 280; p. 834.
Alloy, Lead-base. E. de Campi. No. 1,360,272; Nov. 30; v. 280; p. 820.
Alloy, Lead-base. G. H. Worrell. No. 1,360,346; Nov. 30; v. 280; p. 834.
Alloy, Magnesium. W. R. Veazey. No. 1,334,193; Mar. 16; v. 272; p. 493.
Alloy, Metal. C. B. Backer. No. 1,341,774; June 1; v. 275; p. 32.
Alloy, Metal. G. C. Deeter. No. 1,340,437; May 18; v. 274; p. 469.
Alloy, Metal. J. B. Grenagle. No. 1,334,089; Mar. 16; v. 272; p. 474.
Alloy, Metallic. F. S. Hodson. No. 1,335,284; Mar. 30; v. 272; p. 805.
Alloy, Metal. J. E. Holder. No. 1,359,064; Nov. 16; v. 280; p. 470.
Alloy of iron, chromium, and titanium, and the production thereof. H. C. Sicard. No. 1,346,343; July 13; v. 276; p. 263.
Alloy of iron, Rust-resisting. G. H. Charls. No. 1,355,589; Oct. 12; v. 279; p. 277.
Alloy of iron, Rust-resisting. G. H. Charls. No. 1,363,564; Dec. 28; v. 281; p. 648.
Alloy of iron, zirconium, and titanium and production thereof. H. C. Sicard. No. 1,335,991; Apr. 6; v. 273; p. 55.
Alloy of zirconium and lead, Producing an. N. Petinot. No. 1,335,982; Apr. 6; v. 273; p. 53.
Alloy, Steel. C. M. Johnson. 1,342,911; June 8; v. 275; p. 308.
Alloy, Surface-colored articles of copper. T. C. Merriman. No. 1,327,400; Jan. 6; v. 270; p. 97.
Alloy, Surface-coloring articles of copper. T. C. Merriman. No. 1,327,401; Jan. 6; v. 270; p. 97.
Alloy, Treating iron-silicon. W. J. Beck and J. A. Aupperle. No. 1,358,408; Nov. 9; v. 280; p. 296.
Alloy, Zinc. H. Goldschmidt and K. Müller. No. 1,338,826; May 4; v. 274; p. 33.
Alloy, Zinc. H. Goldschmidt and K. Müller. No. 1,358,147; Nov. 9; v. 280; p. 243.
Alloy, Zinc. A. Tedesco. No. 1,350,892; Aug. 24; v. 277; p. 708.
Alloys, Coating with tin and tin alloys articles made of aluminium or aluminium. M. N. Salvati. No. 1,332,307; Mar. 2; v. 272; p. 25.
Alloys containing nickel, Producing metallic. M. N. Salvati. No. 1,349,918; Aug. 17; v. 277; p. 473.
Alloys containing zirconium carbid, Producing. N. Petinot. No. 1,335,983; Apr. 6; v. 273; p. 53.
Alloys, Forming. P. H. Brace. No. 1,355,532; Oct. 12; v. 279; p. 267.
Alloys having high mechanical, chemical, and electrical resistance. A. Tedesco. No. 1,351,801; Sept. 7; v. 278; p. 19.
Alloys, Manufacturing aluminium. A. Tedesco. No. 1,350,893; Aug. 24; v. 277; p. 708.
Alloys, Method of making. A. G. Mumford. No. 1,355,769; Oct. 12; v. 279; p. 312.
Alloys of alkaline-earth metals, Production of. G. J. Kroll. No. 1,359,813; Nov. 23; v. 280; p. 661.
Alloys, Producing chromium-containing. F. A. Fahrenwald. No. 1,346,187; July 13; v. 276; p. 231.
Alloys, Producing metallic. J. P. Arend. No. 1,363,382; Dec. 28; v. 281; p. 612.
Alloys, Treating copper-bearing. W. J. Marsh. No. 1,353,773; Sept. 21; v. 278; p. 499.
Almond-huller. A. R. Stephen. No. 1,359,766; Nov. 23; v. 280; p. 652.
Alternating-current frequency-meter. J. G. Blessing. No. 1,355,884; Oct. 19; v. 279; p. 375.
Alternating-current motor. V. A. Fynn. No. 1,345,538; July 6; v. 276; p. 42.
Altimetric device for use in the production of plans and maps in relief. H. Arnold. No. 1,344,162; June 22; v. 275; p. 681.
Alum, Manufacturing chrome. G. H. Hultman. No. 1,343,725; June 15; v. 275; p. 531.
Alumina from clay and similar materials, Producing. V. M. Goldschmidt and O. Ravner. No. 1,357,089; Oct. 26; v. 279; p. 658.
Alumina, Manufacture of. E. E. Dutt. No. 1,332,113; Feb. 24; v. 271; p. 639.
Alumina, Manufacture of. E. E. Dutt. No. 1,332,115; Feb. 24; v. 271; p. 639.
Alumina, Production of. B. F. Halvorsen. No. 1,333,020; Mar. 9; v. 272; p. 213.
Aluminium chlorid, Manufacturing. F. C. Frary. No. 1,354,818; Oct. 5; v. 279; p. 74.
Aluminum-chlorid residues, Utilization of. L. S. Abbott. No. 1,332,018; Feb. 24; v. 271; p. 622.
Aluminium compounds, Producing. H. J. Goldschmidt. No. 1,354,824; Oct. 5; v. 279; p. 75.
Aluminium, Electrically depositing. G. L. Williams. No. 1,351,144; Aug. 31; v. 277; p. 819.
Aluminium from aluminic oxid, Producing. V. Gerber. No. 1,350,150; Aug. 17; v. 277; p. 518.
Aluminium from materials containing aluminic oxid, Producing nitrid of. V. Gerber. No. 1,350,149; Aug. 17; v. 277; p. 518.
Aluminum alloy and process of alloying aluminum. O. F. Reinhold. No. 1,362,739; Dec. 21; v. 281; p. 447.
Aluminium nitrid, Production of. M. Shoeld. No. 1,344,153; June 22; v. 275; p. 679.
Aluminium-solder. F. F. Boisselier. No. 1,344,165; June 22; v. 275; p. 682.
Aluminium-solder. J. Segura. No. 1,344,566; June 22; v. 275; p. 761.
Aluminium with the process for obtaining it, Industrial product comprising a soldering substance for. A. M. Ayala. No. 1,333,237; Mar. 9; v. 272; p. 253.
Aluminous composition and making same. O. Hutchins. No. 1,339,344; May 4; v. 274; p. 128.
Aluminum and its alloys, Deoxidizing. A. Strasser. No. 1,348,458; Aug. 3; v. 277; p. 64.
Aluminum, Hardening. H. M. Buluckian. No. 1,336,420; Apr. 13; v. 273; p. 195.
Aluminum, Making powdered or granulated. L. B. Tebbetts, 2d. No. 1,327,743; Jan. 13; v. 270; p. 228.
Aluminum-solder. J. G. Kelly. No. 1,336,081; Apr. 6; v. 273; p. 71.
Aluminum, Solder for. J. Segura. No. 1,328,694; Jan. 20; v. 270; p. 438.
Aluminum, Tinning. A. L. Page. No. 1,339,710; May 11; v. 274; p. 274.
Aluminum, Tinning or soldering. J. Dean. No. 1,340,264; May 18; v. 274; p. 435.
Alunite, Treating. W. F. Downs. No. 1,338,428; Apr. 27; v. 27; v. 273; p. 720.
Alunite, Utilization of native. H. F. Chappell. No. 1,336,508; Apr. 13; v. 273; p. 211.
Alternating-current motor. W. C. Korthals-Altes. No. 1,328,525; Jan. 20; v. 270; p. 407.
Amalgam for dentist's use, Means for preparing. W. M. Muchow. No. 1,356,731; Oct. 26; v. 279; p. 588.
Amalgam from mercury and alloy, Device for mixing and kneading. C. W. Meguiar. No. 1,329,843; Feb. 3; v. 271; p. 93.
Amalgamator. R. Hanssen, P. B. Haug, and M. E. Darby. No. 1,361,723; Dec. 7; v. 281; p. 149.
Amalgamator. A. Harter. No. 1,336,697; Apr. 13; v. 273; p. 248.
Amalgamator. F. M. Lewis. No. 1,354,497; Oct. 5; v. 279; p. 10.
Amalgamator. S. G. Musser. No. 1,842,567; June 8; v. 275; p. 240.
Aminoanthraquinone, Making 2-. M. Fischer. No. 1,338,363; Apr. 27; v. 273; p. 708.
Aminoanthraquinone, Making 2-. M. Fischer. No. 1,338,364; Apr. 27; v. 273; p. 708.
Aminoanthraquinone, Making 2-. M. Fischer. No. 1,340,603; May 18; v. 274; p. 500.
Ammonia. Apparatus for the production of synthetic. R. F. Gardiner. No. 1,333,404; Mar. 9; v. 272; p. 284.
Ammonia by means of sodium bisulfate, Recovering. G. N. Vis. No. 1,332,419; Mar. 2; v. 272; p. 47.
Ammonia-condenser, Flooded. W. I. Bodine and C. R. Solomon. No. 1,329,882; Feb. 3; v. 271; p. 101.
Ammonia-compressor. G. Hilger. No. 1,354,190; Sept. 28; v. 278; p. 627.
Ammonia contents of coal-gas, Process of and apparatus for recovering the. B. Torrey, Jr. No. 1,349,393; Aug. 10; v. 277; p. 298.
Ammonia-dissolving composition for use in refrigeration apparatus. C. Deloygue. No. 1,345,144; June 29; v. 275; p. 937.
Ammonia from cyanamid, Production of. B. Brodtkorb. No. 1,332,100; Feb. 24; v. 271; p. 637.
Ammonia from distillation gases, Direct recovery of. J. Piette. No. 1,356,885; Oct. 26; v. 279; p. 618.
Ammonia from the air or nitrogen, Production of synthetic. R. F. Gardiner. No. 1,328,082; Jan. 13; v. 270; p. 286.
Ammonia in gas-producers, Increasing the efficiency and the yield of. H. Koppers. No. 1,360,117; Nov. 23; v. 280; p. 722.
Ammonia, Manufacture of neutral sulfate of. P. Parish and W. A. M. Valon. No. 1,360,785; Nov. 30; v. 280; p. 921.
Ammonia production. F. J. Metzger. No. 1,354,574; Oct. 5; v. 279; p. 25.
Ammonia, Production of. J. C. Clancy. No. 1,352,180; Sept. 7; v. 278; p. 89.
Ammonia, Production of. J. C. Clancy. No. 1,352,181; Sept. 7; v. 278; p. 89.

Digitized by Google

Alphabetical list of inventions—Continued.

Ammonia, Production of. J. C. Clancy. No. 1,352,174; Sept. 7; v. 278; p. 89.
Ammonia, Production of. J. C. Clancy. No. 1,352,182; Sept. 7; v. 278; p. 89.
Ammonia-saturator. A. Roberts. No. 1,331,784; Feb. 24; v. 271; p. 577.
Ammonia synthesis. J. C. Clancy. No. 1,352,179; Sept. 7; v. 278; p. 89.
Ammonia synthesis and catalyst therefor. J. C. Clancy. No. 1,352,178; Sept. 7; v. 278; p. 89.
Ammonia synthesis and preparing the same, Catalyst for. J. C. Clancy. No. 1,363,392; Dec. 28; v. 281; p. 613.
Ammonia synthesis catalyst and making same. J. C. Clancy. No. 1,352,177; Sept. 7; v. 278; p. 89.
Ammonia synthesis, Forming a mixture of hydrogen and nitrogen for. G. P. Gerlin and M. Mauran. No. 1,349,756; Aug. 17; v. 277; p. 443.
Ammonia, Synthesising. J. C. Clancy. No. 1,363,393; Dec. 28; v. 281; p. 613.
Ammonia, Synthetic production of. G. Claude. No. 1,332,460; Mar. 2; v. 272; p. 55.
Ammonia, Synthetic production of. H. C. Greenwood. No. 1,329,397; Feb. 3; v. 271; p. 10.
Ammonia, Synthetic production of. H. C. Greenwood. No. 1,337,903; Apr. 20; v. 273; p. 552.
Ammonia to nitric acid, Oxidizing. A. Henwood. No. 1,347,158; July 20; v. 276; p. 482.
Ammonia to nitric acid, Oxidizing. A. Henwood. No. 1,347,159; July 20; v. 276; p. 482.
Ammonium chlorid, Method of and apparatus for recovering. M. E. Mueller. No. 1,346,967; July 20; v. 276; p. 445.
Ammonium nitrate, Production of. J. R. Partington, G. J. Jones, and T. K. Brownson. No. 1,330,136; Feb. 10; v. 271; p. 180.
Ammunition-lubrication device. T. H. Eickhoff. No. 1,361,373; Dec. 7; v. 281; p. 79.
Ammonium-perchlorate explosives. R. M. Cook and E. W. Harris. No. 1,357,764; Nov. 2; v. 280; p. 107.
Ammonium perchlorate from sodium perchlorate and ammonium sulfate, Manufacturing. G. C. Given, H. S. McQuaid, and R. A. Long. No. 1,342,956; June 8; v. 275; p. 316.
Ammonium perchlorates, Manufacturing. O. B. Carlson. No. 1,338,857; Apr. 27; v. 273; p. 707.
Ammonium salts, Purification of. V. Bredlik. No. 1,346,106; July 13; v. 276; p. 216.
Ammonium sulfate, Production of. W. A. Sloss. No. 1,328,842; Jan. 20; v. 270; p. 372.
Ammunition, Apparatus for lubricating. T. H. Eickhoff. No. 1,350,645; Aug. 24; v. 277; p. 661.
Ammunition-carrier. A. A. Lethern. No. 1,345,864; July 6; v. 276; p. 105.
Ammunition-hoisting apparatus. A. T. Dawson and J. Horne. No. 1,346,802; July 13; v. 276; p. 254.
Ammunition, Primer for small-arms. H. T. Peck. No. 1,350,465; Aug. 24; v. 277; p. 626.
Ammunition lubrication. T. H. Eickhoff and C. A. Tunks. No. 1,327,378; Jan. 6; v. 270; p. 93.
Ammunition-receptacle. J. S. Peoples. No. 1,343,374; June 15; v. 275; p. 462.
Amusement and exercise, Apparatus for the purpose of providing public. H. Clegg. No. 1,354,021; Sept. 28; v. 278; p. 592.
Amusement apparatus. J. H. Butcher. No. 1,337,820; Apr. 20; v. 273; p. 535.
Amusement apparatus. E. S. Doughty. No. 1,330,502; May 11; v. 274; p. 234.
Amusement apparatus. P. D. Haunson. No. 1,362,864; Dec. 21; v. 281; p. 472.
Amusement apparatus. C. Hermann. No. 1,354,486; Sept. 28; v. 278; p. 676.
Amusement apparatus. J. I. Holcomb and J. F. Hoke, Jr. No. 1,352,666; Sept. 14; v. 278; p. 220.
Amusement apparatus. T. D. Hooper, Jr. No. 1,360,953; Nov. 30; v. 280; p. 953.
Amusement apparatus. H. F. Maynes. No. 1,353,929; Sept. 28; v. 278; p. 573.
Amusement apparatus. H. F. Maynes. No. 1,361,476; Dec. 7; v. 281; p. 101.
Amusement apparatus. H. F. Maynes. No. 1,362,885; Dec. 21; v. 281; p. 475.
Amusement apparatus. H. F. Maynes. No. 1,362,886; Dec. 21; v. 281; p. 475.
Amusement apparatus. J. A. Motsenbocker. No. 1,326,954; Jan. 6; v. 270; p. 14.
Amusement apparatus. H. N. Ridgway. No. 1,341,210; May 25; v. 274; p. 689.
Amusement apparatus. H. N. Ridgway. No. 1,341,220; May 25; v. 274; p. 689.
Amusement apparatus. J. H. Ryan. No. 1,357,520; Nov. 2; v. 280; p. 60.
Amusement apparatus, Scenic. J. Smith. No. 1,340,570; May 18; v. 274; p. 494.
Amusement device. A. J. Barber. No. 1,354,793; Oct. 5; v. 279; p. 70.
Amusement device. P. Beaushene and E. Lysen. No. 1,331,411; Feb. 17; v. 271; p. 486.
Amusement device. H. L. and C. O. Breinig. No. 1,334,592; Mar. 23; v. 272; p. 615.
Amusement device. P. J. Coburn. No. 1,346,634; July 13; v. 276; p. 320.
Amusement device. C. L. Feltman. No. 1,358,305; Nov. 9; v. 280; p. 274.
Amusement device. F. J. Gibson. No. 1,333,407; Mar. 9; v. 272; p. 285.
Amusement device. E. G. Gollner. No. 1,332,174; Feb. 24; v. 271; p. 650.
Amusement device. J. Irsch. No. 1,343,083; June 8; v. 275; p. 342.
Amusement device. A. Javelet. No. 1,343,136; June 8; v. 275; p. 352.
Amusement device. K. A. Johnson. No. 1,354,009; Oct. 5; v. 279; p. 92.
Amusement device. O. Johnson. No. 1,359,508; Nov. 23; v. 280; p. 601.
Amusement device. B. Klein. No. 1,336,082; Apr. 6; v. 273; p. 71.
Amusement device. E. Kohler. No. 1,328,166; Jan. 13; v. 270; p. 302.
Amusement device. A. P. Lauster. No. 1,363,133; Dec. 21; v. 281; p. 524.
Amusement device. C. Lombardo. No. 1,350,873; Aug. 24; v. 277; p. 704.
Amusement device. F. A. Mayer. No. 1,357,465; Nov. 2; v. 280; p. 50.
Amusement device. C. F. Morgan. No. 1,331,206; Feb. 17; v. 271; p. 448.
Amusement device. G. Nakamura. No. 1,342,223; June 1; v. 275; p. 120.
Amusement device. A. Pinto. No. 1,350,176; Aug. 17; v. 277; p. 523.
Amusement device. H. N. Ridgeway. No. 1,363,352; Dec. 28; v. 281; p. 606.
Amusement device. C. A. Roman. No. 1,329,856; Feb. 3; v. 271; p. 96.
Amusement device. H. A. Silver. No. 1,352,841; Sept. 14; v. 278; p. 255.
Amusement device. J. Stanley and J. C. Porter. No. 1,350,086; Aug. 17; v. 277; p. 506.
Amusement device. J. J. Stock. No. 1,339,299; May 4; v. 274; p. 119.
Amusement device. J. Van Camp. No. 1,339,871; May 11; v. 274; p. 304.
Amusement device. A. McK. Waters. No. 1,345,647; July 6; v. 276; p. 62.
Amusement device. J. C. Welch. No. 1,346,576; July 13; v. 276; p. 308.
Amusement device, Speedway. A. P. Lauster. No. 1,353,918; Sept. 28; v. 278; p. 571.
Amusement device, Spiral-guide. G. W. O'Dole. No. 1,347,968; July 27; v. 276; p. 699.
Anaerobic chamber. A. Mouneyrat. No. 1,331,207; Feb. 17; v. 271; p. 448.
Analytical apparatus. H. B. Pulsifer. No. 1,340,346; May 18; v. 274; p. 451.
Anatomical developing and adjusting machine. D. W. Riesland. No. 1,348,896; Aug. 10; v. 277; p. 200.
Anchor. A. F. Eells. No. 1,327,201; Jan. 6; v. 270; p. 60.
Anchor. M. C. Furstenau. No. 1,357,552; Nov. 2; v. 280; p. 56.
Anchor. O. W. Upson. No. 1,329,563; Feb. 3; v. 271; p. 41.
Anchor. W. Weniger. No. 1,362,209; Dec. 14; v. 281; p. 292.
Anchor. R. T. Windle. No. 1,356,481; Oct. 19; v. 279; p. 492.
Anchor-bolt. F. Hammermann. No. 1,353,159; Sept. 21; v. 278; p. 377.
Anchor-bolt. E. C. Boyer and B. J. Boyle. No. 1,344,720; June 29; v. 275; p. 856.
Anchor for safety-treads. C. V. Folin. No. 1,359,978; Nov. 23; v. 280; p. 694.
Anchor-post. A. L. Melvin. No. 1,347,865; July 27; v. 276; p. 679.
Anchor shank and shackle. W. M. Bateman. No. 1,340,002; May 11; v. 274; p. 829.
Anchor, Stockless. F. Briner. No. 1,335,816; Apr. 6; v. 273; p. 21.
Anchors, Making forged. T. J. Curry. No. 1,331,095; Feb. 17; v. 271; p. 428.
Anchorage device. R. S. Peirce. No. 1,356,401; Oct. 19; v. 279; p. 477.
Anchoring device. H. Duca. No. 1,358,715; Nov. 16; v. 280; p. 401.
Anchoring device. L. B. Fish. No. 1,351,845; Sept. 7; v. 278; p. 26.
Anchoring device. P. A. Valle. No. 1,332,651; Mar. 2; v. 272; p. 91.
Andiron-grate, Combination. J. R. Campbell. No. 1,347,935; July 27; v. 276; p. 693.
Anemometer. S. G. Starling and A. J. Hughes. No. 1,352,391; Sept. 7; v. 278; p. 129.
Anesthesia, Instrument for producing intra-osseous. A. E. Smith. No. 1,328,459; Jan. 20; v. 270; p. 394.
Anesthetic-administering apparatus. W. A. Johnston, A. W. Brown, and F. L. Wallace. No. 1,340,448; May 18; v. 274; p. 471.
Anesthetic apparatus. A. C. Clark. No. 1,338,905; May 4; v. 274; p. 47.
Anesthetic compound. O. Kamm, R. Adams, and E. H. Volwiler. No. 1,358,750; Nov. 16; v. 280; p. 409.

Digitized by Google

Alphabetical list of inventions—Continued.

Anesthetic compound. O. Kamm, R. Adams, and E. H. Volwiler. No. 1,358,751; Nov. 16; v. 280; p. 409.
Anesthetics, Apparatus for administering. W. P. Walter. No. 1,357,601; Nov. 2; v. 280; p. 75.
Anesthetics, Apparatus for preparing. H. R. Kersten. No. 1,362,873; Dec. 21; v. 281; p. 473.
Anesthetising apparatus. C. K. Teter. No. 1,361,200; Dec. 7; v. 281; p. 44.
Angle-fixture, Universal. J. R. Beckett. No. 1,327,870; Jan. 6; v. 270; p. 91.
Angle-indicator. M. Luoma. No. 1,342,335; June 1; v. 275; p. 141.
Angle-indicator, Automatic. J. R. Lackland. No. 1,346,547; July 13; v. 276; p. 303.
Angle-planer. G. P. Thomas. No. 1,363,625; Dec. 28; v. 281; p. 659.
Angle-plate. J. R. Beckett. No. 1,363,222; Dec. 28; v. 281; p. 581.
Angle-plate. A. S. and R. Reid. No. 1,338,095; Apr. 27; v. 273; p. 657.
Anhydrid, Manufacture of nitric. P. A. Guye. No. 1,348,874; Aug. 10; v. 277; p. 196.
Anhydrid, Phthalic. C. E. Andrews. No. 1,336,182; Apr. 6; v. 273; p. 90.
Anhydrous magnesium chlorid or anhydrous double chlorid of magnesium, Production of. E. A. Ashcroft. No. 1,359,652; Nov. 23; v. 280; p. 629.
Anilin black upon vegetable textile fibers, Production of. E. A. Fourneaux. No. 1,350,600; Aug. 24; v. 277; p. 653.
Animal-catcher. J. L. Simantel. No. 1,344,828; June 29; v. 275; p. 877.
Animal-cover. W. P. Seaton. No. 1,335,032; Mar. 30; v. 272; p. 759.
Animal-exterminator. J. W. Van Meter. No. 1,347,310; July 20; v. 276; p. 512.
Animal toy. C. L. Cotter. No. 1,363,570; Dec. 28; v. 281; p. 648.
Animal-trap. L. Bachand. No. 1,359,217; Nov. 16; v. 280; p. 498.
Animal-trap. R. C. Dickson. No. 1,331,324; Feb. 17; v. 271; p. 469.
Animal-trap. C. A. S. Erickson. No. 1,327,229; Jan. 6; v. 270; p. 66.
Animal-trap. W. B. Gilmore. No. 1,340,442; May 18; v. 274; p. 470.
Animal-trap. L. Haege. No. 1,355,831; Oct. 19; v. 279; p. 364.
Animal-trap. J. A. Hedberg. No. 1,362,695; Dec. 21; v. 281; p. 438.
Animal-trap. R. E. Jones. No. 1,358,749; Nov. 16; v. 280; p. 409.
Animal-trap. J. J. McQuaid. No. 1,362,168; Dec. 14; v. 281; p. 284.
Animal-trap. O. G. Meredith. No. 1,359,820; Nov. 23; v. 280; p. 663.
Animal-trap. J. D. Miller. No. 1,327,490; Jan. 6; v. 270; p. 113.
Animal-trap. D. Y. Mosby. No. 1,359,724; Nov. 23; v. 280; p. 643.
Animal-trap. J. Paudois. No. 1,344,712; June 29; v. 275; p. 854.
Animal-trap. E. E. Rodgers, A. W. Wenger, and C. M. Rodgers. No. 1,348,449; Aug. 3; v. 277; p. 63.
Animal-trap. J. W. Smith. No. 1,357,530; Nov. 2; v. 280; p. 62.
Animal-trap. J. W. Stevenson. No. 1,354,584; Oct. 5; v. 279; p. 27.
Animal-trap. J. N. Timar. No. 1,335,304; Mar. 30; v. 272; p. 809.
Animal-trap. M. A. Twitchell. No. 1,327,890; Jan. 13; v. 270; p. 250.
Animal-trap. F. Villa. No. 1,331,132; Feb. 17; v. 271; p. 435.
Animal-trap. W. D. West. No. 1,360,161; Nov. 23; v. 280; p. 730.
Animal-trap. S. A. Whitley. No. 1,363,943; Dec. 28; v. 281; p. 720.
Ankle-brace. W. W. Lasher. No. 1,332,047; Feb. 24; v. 271; p. 627.
Ankle-brace and arch-support. F. Tranmer. No. 1,336,001; Apr. 6; v. 273; p. 56.
Ankle-joint, Artificial. O. A. Ingebrigtsen. No. 1,334,861; Mar. 23; v. 272; p. 666.
Annealing and descaling tin-plate, Simultaneously. I. M. Scott. No. 1,359,282; Nov. 16; v. 280; p. 510.
Annealing and heat-treating furnace. J. Weintz. No. 1,339,081; May 4; v. 274; p. 81.
Annealing-box. H. B. Rose and W. B. Enck. No. 1,340,675; May 18; v. 274; p. 514.
Annealing-box, Metallic. H. Howe. No. 1,360,639; Nov. 30; v. 280; p. 893.
Annealing-box, Pressed corrugated sheet-metal. G. P. Bard. No. 1,328,080; Jan. 13; v. 270; p. 276.
Annealing-furnace. K. Berglof. No. 1,336,190; Apr. 6; v. 273; p. 92.
Annealing-furnace. T. J. Costello. No. 1,336,681; Apr. 13; v. 273; p. 245.
Annealing-furnace. F. S. Kochendorfer and B. E. Balduf. No. 1,352,459; Sept. 14; v. 278; p. 178.
Annealing-furnace. M. U. Wikstrom. No. 1,343,019; June 8; v. 275; p. 329.
Annealing-furnace. L. Wolffgram. No. 1,329,873; Feb. 3; v. 271; p. 99.
Annealing-furnace and mechanism for handling work therein, Non-oxidizing. E. W. Beardsley. No. 1,362,555; Dec. 14; v. 281; p. 360.
Annealing-furnace, Continuous. M. A. Turtle. No. 1,360,384; Nov. 30; v. 280; p. 832.
Annealing furnace, Pipe-ball-. E. E. Alexander and J. T. Piggott. No. 1,354,368; Sept. 28; v. 278; p. 668.
Annealing magnetic material. W. J. Wooldridge. No. 1,331,889; Feb. 24; v. 271; p. 598.
Annunciator. H. J. Appleton. No. 1,335,215; Mar. 30; v. 272; p. 792.
Annunciator. C. A. Bindhammer. No. 1,331,180; Feb. 17; v. 271; p. 444.
Annunciator. G. H. Miller. No. 1,329,920; Feb. 3; v. 271; p. 108.
Annunciator. E. W. Vogel. No. 1,337,299; Apr. 20; v. 273; p. 437.
Answer-back mechanism. R. C. Leake. No. 1,363,796; Dec. 28; v. 281; p. 692.
Antenna. E. F. W. Alexanderson. No. 1,360,167; Nov. 23; v. 280; p. 732.
Antenna. E. F. W. Alexanderson. No. 1,360,168; Nov. 23; v. 280; p. 732.
Antenna structure. L. Espenschied. No. 1,353,735; Sept. 21; v. 278; p. 492.
Antenna-switch, Solenoid-operated. F. J. Petrequin. No. 1,334,396; Mar. 23; v. 272; p. 578.
Antenna with distributed positive resistance. M. I. Pupin and E. H. Armstrong. No. 1,336,378; Apr. 6; v. 273; p. 127.
Anti-agitating device. J. J. Catron. No. 1,329,887; Feb. 3; v. 271; p. 102.
Anti-aircraft, Apparatus for regulating the firing of. J. L. Routin. No. 1,345,707; July 6; v. 276; p. 74.
Anti-aircraft-control system. J. L. Routin. No. 1,345,697; July 6; v. 276; p. 72.
Anti-aircraft fire control. J. L. Routin. No. 1,345,701; July 6; v. 276; p. 73.
Anti-aircraft fire-control apparatus. J. L. Routin. No. 1,345,705; July 6; v. 276; p. 74.
Anti-aircraft gunfire control. J. L. Routin. No. 1,345,698; July 6; v. 276; p. 72.
Anti-aircraft gunfire control apparatus. J. L. Routin. No. 1,345,703; July 6; v. 276; p. 74.
Anti-aircraft gunfire-control system. J. L. Routin. No. 1,345,700; July 6; v. 276; p. 73.
Anti-aircraft tracker. J. L. Routin. No. 1,345,704; July 6; v. 276; p. 74.
Anti-mouth-breathing device. J. W. Rothenberger. No. 1,339,865; May 11; v. 274; p. 303.
Anti-rail-creeping and rail-fastening device. P. G. Pullos. No. 1,362,508; Dec. 14; v. 281; p. 350.
Anti-skid device. H. St. Pierre. No. 1,363,994; Dec. 28; v. 821; p. 730.
Anticreeper. I. T. Howard. No. 1,343,563; June 15; v. 275; p. 499.
Antifriction-buffer. L. Larsen. No. 1,347,389; July 20; v. 276; p. 527.
Antifriction device. S. Apostoloff. No. 1,327,895; Jan. 13; v. 270; p. 251.
Antifriction draw-bar support. A. C. Davidson. No. 1,342,586; June 8; v. 275; p. 244.
Antifriction-jack. A. W. Marr. No. 1,360,557; Nov. 30; v. 280; p. 876.
Antiglare appliance. F. Kuster. No. 1,360,303; Nov. 30; v. 280; p. 827.
Antiglare attachment. W. S. Sumner. No. 1,358,262; Nov. 9; v. 280; p. 265.
Antirattle-catch. C. J. Hagstrom. No. 1,344,508; June 22; v. 275; p. 750.
Antirattler. H. C. Maise. No. 1,348,232; Aug. 3; v. 277; p. 20.
Antirattler and window-locking device, Combined. G. L. Rouse. No. 1,338,792; May 4; v. 274; p. 27.
Antirattler or bumper. J. T. Allmand. No. 1,356,685; Oct. 26; v. 279; p. 579.
Antirattling device. C. E. Soule. No. 1,327,291; Jan. 6; v. 270; p. 77.
Antirattling device. G. A. Wells, Jr. No. 1,351,453; Aug. 31; v. 277; p. 881.
Antiseptic and disinfectant. F. S. Mardon. No. 1,358,227; Nov. 9; v. 280; p. 258.
Antiseptics, Capsule for. L. E. Evslin. No. 1,350,304; Aug. 24; v. 277; p. 504.
Antisetting device. A. M. Griffey. No. 1,346,954; July 20; v. 276; p. 442.
Antiskid attachment. W. J. Duvall. No. 1,341,789; June 1; v. 275; p. 35.
Antiskid attachment. S. C. Sherry. No. 1,360,806; Nov. 30; v. 280; p. 925.
Antiskid device. T. H. Bell. No. 1,333,788; Mar. 16; v. 272; p. 418.
Antiskid device. W. H. Brown. No. 1,333,898; Mar. 16; v. 272; p. 438.
Antiskid device. W. C. Cutler. No. 1,352,403; Sept. 7; v. 278; p. 131.
Antiskid device. C. W. Hodges. No. 1,355,972; Oct. 19; v. 279; p. 392.
Antiskid device. N. M. Hopkins. No. 1,330,115; Feb. 10; v. 271; p. 176.

Digitized by Google

Antiskid device. W. H. Krug. No. 1,330,194; Feb. 10; v. 271; p. 191.
Antiskid device. C. W. Poorman. No. 1,329,628; Feb. 3; v. 271; p. 53.
Antiskid device. A. Rich. No. 1,335,460; Mar. 30; v. 272; p. 838.
Antiskid device. J. E. Rogers. No. 1,328,297; Jan. 20; v. 270; p. 363.
Antiskid device. J. E. Rogers. No. 1,328,298; Jan. 20; v. 270; p. 364.
Antiskid device. R. Smith. No. 1,331,891; Feb. 17; v. 271; p. 482.
Antiskid device. H. W. White and A. T. Sheldon. No. 1,336,175; Apr. 6; v. 273; p. 89.
Antiskid device. J. M. Yaniglos. No. 1,360,855; Nov. 30; v. 280; p. 934.
Antiskid means, Attachment device for. G. B. Waite. No. 1,329,484; Feb. 3; v. 271; p. 27.
Antiskidding device. W. P. Bell. No. 1,355,027; Oct. 5; v. 279; p. 115.
Antiskidding device. E. J. Canfield and M. Morrill. No. 1,333,831; Mar. 16; v. 272; p. 425.
Antiskidding device. J. C. Dupler. No. 1,353,329; Sept. 21; v. 278; p. 410.
Antiskidding device. W. E. Glover. No. 1,350,966; Aug. 24; v. 277; p. 722.
Antiskidding device. P. C. Kane. No. 1,356,288; Oct. 19; v. 279; p. 455.
Antiskidding device. H. C. Kreipke. No. 1,330,480; Feb. 10; v. 271; p. 243.
Antiskidding device. S. Oppenheimer. No. 1,338,036; Apr. 27; v. 273; p. 646.
Antiskidding device. H. R. Patriarche. No. 1,333,878; Mar. 16; v. 272; p. 433.
Antiskidding device. W. H. Pendleton. No. 1,358,391; Nov. 9; v. 280; p. 292.
Antisubmarine device. P. Petrusavage. No. 1,342,064; June 1; v. 275; p. 88.
Antiskidding device. A. R. Thomson. No. 1,360,599; Nov. 30; v. 280; p. 884.
Antiskidding device. A. R. Thomson. No. 1,360,600; Nov. 30; v. 280; p. 885.
Antiskidding device for automobiles. H. E. Daniels. No. 1,330,110; Feb. 10; v. 271; p. 175.
Antispinning device. D. Turner. No. 1,336,265; Apr. 6; v. 273; p. 106.
Antisubmarine device. C. W. Brewater. No. 1,331,800; Feb. 24; v. 271; p. 581.
Antitwisting mechanism. J. T. Wright. No. 1,333,147; Mar. 9; v. 272; p. 236.
Anvil attachment. H. Trouts. No. 1,349,927; Aug. 17; v. 277; p. 474.
Anvil, Blacksmith's. S. De La Pena. No. 1,361,311; Dec. 7; v. 281; p. 66.
Apparatus for determining and correcting the course of aircraft and for dropping bombs therefrom. A. H. Pollen and H. F. Landstad. No. 1,363,011; Dec. 21; v. 281; p. 500.
Apparel. S. N. Leopard. No. 1,341,716; June 1; v. 275; p. 20.
Apparel, particularly relating to gowns, dresses, coats, and the like. L. S. Reynard. No. 1,351,537; Aug. 31; v. 277; p. 598.
Apparel-supporter. Child's. H. McEldowney. No. 1,351,579; Aug. 31; v. 277; p. 907.
Apparel, Wearing-. E. Degman. No. 1,358,940; Nov. 16; v. 280; p. 447.
Apparel, Wearing-. L. Friedman. No. 1,361,320; Dec. 7; v. 281; p. 68.
Apparel, Wearing-. F. Wiberley. No. 1,361,559; Dec. 7; v. 281; p. 118.
Apple cutter and corer. S. A. Erdahl. No. 1,328,503; Jan. 20; v. 270; p. 403.
Apple-grader. E. R. Scott. No. 1,363,818; Dec. 28; v. 281; p. 696.
Appliance. P. Crowder. No. 1,349,368; Aug. 10; v. 277; p. 294.
Apportioning device. A. Larsen. No. 1,327,678; Jan. 13; v. 270; p. 210.
Apron. W. P. Sharp. No. 1,358,589; Nov. 9; v. 280; p. 331.
Apron, Irrigation-. F. Sullivan. No. 1,363,691; Dec. 28; v. 281; p. 672.
Apron, Sink-. J. Beebe. No. 1,355,086; Oct. 5; v. 279; p. 127.
Aqua-planes. D. L. Raulett. No. 1,356,013; Oct. 19; v. 279; p. 400.
Aquarium, Illuminated. N. Sato. No. 1,333,454; Mar. 9; v. 272; p. 294.
Arbor. F. J. Baldwin. No. 1,339,877; May 11; v. 274; p. 306.
Arbor. W. E. Kelly. No. 1,362,872; Dec. 21; v. 281; p 478.
Arbor, Expanding. E. Hottinger. No. 1,346,890; July 20; v. 276; p. 429.
Arbor, Expanding. C. F. Sherman. No. 1,346,917; July 20; v. 276; p. 435.
Arbor, Multiple-expansion. W. T. Christopher. No. 1,363,310; Dec. 28; v. 281; p. 599.
Arbor-press. F. G. Gies and E. R. Lewis. No. 1,330,462; Feb. 10; v. 271; p. 240.
Arbor-press. H. D. Twombly. No. 1,342,015; June 8; v. 275; p. 328.
Arbor-press. K. R. Wilson. No. 1,346,868; July 20; v. 276; p. 425.
Arc-current regulator. J. A. Holifield. No. 1,338,301; Apr. 27; v. 273; p. 696.
Arc-welding electrode. P. H. Brace. No. 1,363,636; Dec. 28; v. 281; p. 661.
Arcs, Means for extinguishing. E. O. Schweitzer and N. J. Conrad. (Reissue.) No. 14,897; June 22; v. 275; p. 772.
Arch, Constructing one-piece fire-brick. W. A. L. Schaefer. No. 1,341,077; May 25; v. 274; p. 661.
Arch, Constructing one-piece fire-brick. W. A. L. Schaefer. No. 1,341,078; May 25; v. 274; p. 661.
Arch construction. D. B. Luten. No. 1,334,871; Mar. 23; v. 272; p. 668.
Arch construction, Refractory-. A. H. Willett. No. 1,342,931; June 8; v. 275; p. 312.
Arch-support. S. Darling. No. 1,346,444; July 13; v. 276; p. 282.
Arch-support. W. C. Hill. No. 1,351,248; Aug. 31; v. 277; p. 840.
Arch-support. E. P. Matte. No. 1,361,740; Dec. 7; v. 281; p. 152.
Arch-support. C. Ritz. No. 1,358,018; Nov. 9; v. 280; 217.
Arch-support. W. M. Scholl No. 1,362,191; Dec. 14; v. 281; p. 289.
Arch-support. J. L. Zink. No. 1,349,355; Aug. 10; v. 277; p. 291.
Arithmetic, Apparatus for teaching. R. A. Jackson. No. 1,340,052; May 11; v. 274; p. 338.
Arm, Artificial. W. P. Anderson, N. C. Clarke, and J. F. Whitelaw. (Reissue.) No. 14,939; Aug. 31; v. 277; p. 934.
Arm, Artificial. E. R. Birchard. No. 1,327,938; Jan. 13; v. 270; p. 259.
Armament, Mobile. M. Sitney. No. 1,351,928; Sept. 7; v. 278; p. 43.
Armature. J. W. Pearson. No. 1,338,093; Apr. 27; v. 273; p. 657.
Armature-coils, Machine for forming. F. C. Nicol and C. H. Knowles. No. 1,337,463; Apr. 20; v. 273; p. 467.
Armature head and core, Detachable magneto-. R. A. Oglesby. No. 1,338,151; Apr. 27; v. 273, p. 668.
Armature, Relay-. J. I. Mitchiner. No. 1,351,674; Aug. 31; v. 277; p. 925.
Armature-terminals, Machine for bending. V. G. Apple. No. 1,332,154; Feb. 24; v. 271; p. 646.
Armband. A. L. Herrmann. No. 1,346,374; July 13; v. 276; p. 268.
Armchair and bed, Combined. E. Jantsch. No. 1,346,206; July 13; v. 276; p. 234.
Armor-bending machine. W. F. Ray. No. 1,359,197; Nov. 16; v. 280; p. 494.
Armor, Bullet-proof. G. O. Brewster. No. 1,348,204; Aug. 3; v. 277; p. 14.
Armor, Bullet-proof. G. O. Brewster. No. 1,350,062; Aug. 17; v. 277; p. 501.
Armor-plate installer. L. Salter. No. 1,355,784; Oct. 12; v. 279; p. 314.
Armored fixture. A. Kammerich. No. 1,338,372; Apr. 27; v. 273; p. 710.
Army-trailer. E. Howland. No. 1,327,326; Jan. 6; v. 270; p. 83.
Arrow. I. L. Davis. No. 1,346,639; July 13; v. 276; p. 321.
Arrow. G. B. Reaben. No. 1,328,967; Jan. 27; v. 270; p. 519.
Arsenate, Making magnesium. E. O. Barstow. No. 1,344,018; June 22; v. 275; p. 654.
Art-board. P. R. Zinser. No. 1,334,879; Mar. 23; v. 272; p. 670.
Art work and producing same. F. A. Garbutt. No. 1,356,442; Oct. 19; v. 279; p. 484.
Article-attaching machine. W. L. Barron, and A. F. Fifield. No. 1,354,794; Oct. 5; v. 279; p. 70.
Article-carrier. W. F. Sherman. No. 1,353,858; Sept. 28; v. 278; p. 559.
Article-holder. G. Shively. No. 1,344,728; June 29; v. 275; p. 857.
Article-holder, Folding. A. Wiggers. No. 1,349,402; Aug. 10; v. 277; p. 300.
Article of manufacture. E. W. Clark. No. 1,358,364; Nov. 9; v. 280; p. 286.
Article of manufacture. H. L. Glaze. No. 1,356,707; Oct. 26; v. 279; p. 583.
Article of manufacture. R. D. Paxson. No. 1,335,075; Mar. 30; v. 272; p. 767.
Article of manufacture and making same. C. Weber. No. 1,350,533; Aug. 24; v. 277; p. 640.
Article-register. M. B. Diskin. No. 1,339,744; May 11; v. 274; p. 280.
Article-stand. M. Cohen. No. 1,327,943; Jan. 13; v. 270; p. 260.
Article-support. W. J. Hickman. No. 1,361,056; Dec. 7; v. 281; p. 15.
Articles of manufacture, Process and machine for making certain. F. P. Kobert. No. 1,341,626; May 25; v. 274; p. 767.

Digitized by Google

Artillery and other purposes, Road wheeled units for. E. Schneider. No. 1,335,759; Apr. 6; v. 273; p. 11.
Artillery, Automatic fuse-setter for anti-aircraft. R. V. Morse. No. 1,349,220; Aug. 10; v. 277; p. 264.
Asbestos, Bleaching. C. L. Hill. No. 1,346,316; July 13; v. 276; p. 257.
Asbestos-flange mold. J. Budinich. No. 1,328,817; Jan. 27; v. 270; p. 490.
Asbestos insulating-coverings, Molding magnesia-. R. D. Pike. No. 1,356,309; Oct. 19; v. 279; p. 460.
Asbestos, Method of and apparatus for treating. O. H. Cilley. No. 1,338,613; Apr. 27; v. 273; p. 754.
Asbestos, Treating. E. H. Garcin. No. 1,340,535; May 18; v. 274; p. 487.
Ascension and decension, Mechanism for. S. Osze. No. 1,358,325; Nov. 9; v. 280; p. 278.
Aseptic appliance. A. O. Kuhn. No. 1,351,917; Sept. 7; v. 278; p. 41.
Ash-can. L. Guldaman. No. 1,359,057; Nov. 16; v. 280; p. 468.
Ash, cinder, and coal separator. E. C. Madsen. No. 1,351,861; Sept. 7; v. 278; p. 30.
Ash-conveyer. A. Girtanner. No. 1,348,987; Aug. 10; v. 277; p. 208.
Ash-conveyer. L. A. Griffin. No. 1,329,522; Feb. 3; v. 271; p. 34.
Ash-conveyer. L. A. Griffin. No. 1,331,986; Feb. 24; v. 271; p. 616.
Ash-conveyer. L. A. Griffin. No. 1,331,987; Feb. 24; v. 271; p. 616.
Ash-conveyer. J. M. Hopwood. No. 1,351,572; Aug. 31; v. 277; p. 905.
Ash-conveyer. J. M. Hopwood. No. 1,351,573; Aug. 31; v. 277; p. 905.
Ash-conveyer discharge-conduits, Safety device for. L. A. Griffin. No. 1,361,252; Dec. 7; v. 281; p. 53.
Ash-conveyer systems, Elbow for. L. A. Griffin. No. 1,331,988; Feb. 24; v. 271; p. 616.
Ash-conveying system. D. A. Livensparger. No. 1,339,209; May 4; v. 274; p. 104.
Ash-conveying system. A. P. Strong. No. 1,357,259; Nov. 2; v. 280; p. 12.
Ash-discharge mechanism. F. T. and J. M. Nicholson. No. 1,348,659; Aug. 3; v. 277; p. 103.
Ash-gate. M. C. Sherman and F. B. Allen. No. 1,360,805; Nov. 30; v. 280; p. 925.
Ash-hoist. C. Siedlickis. No. 1,339,072; May 4; v. 274; p. 79.
Ash receiver and sifter. P. H. Childress. No. 1,346,809; July 20; v. 276; p. 413.
Ash-receptacles, Cover for. E. S. Savage. No. 1,354,847; Oct. 5; v. 279; p. 80.
Ash-sage color-preserving extract. J. Petan. No. 1,340,246; May 18; v. 274; p. 402.
Ash-sifter. W. F. Goddard. No. 1,344,390; June 22; v. 275; p. 726.
Ash-sifter. A. Kolar. No. 1,336,637; Apr. 13; v. 273; p. 236.
Ash-sifter. T. J. MacIvor. No. 1,328,174; Jan. 13; v. 270; p. 304.
Ash-sifter. H. Rozenske. No. 1,336,538; Apr. 13; v. 273; p. 217.
Ash-sifter. F. Ziemer. No. 1,333,236; Mar. 9; v. 272; p. 253.
Ash-tray and cigarette-extinguisher, Combined. H. W. Plucker. No. 1,331,872; Feb. 24; v. 271; p. 595.
Asparagus-sizing machine. D. Low and A. R. Thompson. No. 1,333,858; Mar. 16; v. 272; p. 430.
Asphalt-cutter. F. V. E. Bardol. No. 1,337,426; Apr. 20; v. 273; p. 461.
Asphalt-cutter mechanism. J. Petermann. No. 1,331,367; Feb. 17; v. 271; p. 478.
Asphalt, Fibered. G. L. Oliensis and J. S. Miller, Jr. No. 1,340,181; May 18; v. 274; p. 420.
Asphalt-kettle and steam-generating plant, Combined. C. F. Hetherington. No. 1,350,502; Aug. 24; v. 277; p. 634.
Asphalt, Manufacture of. R. R. Rosenbaum. No. 1,332,359; Mar. 2; v. 272; p. 36.
Asphalt-mixing apparatus. F. H. Cummer. No. 1,329,506; Feb. 3; v. 271; p. 31.
Asphalt or concrete, Apparatus for cutting and breaking. J. Petermann. No. 1,344,560; June 22; v. 275; p. 760.
Aspirator. F. L. Buenger. No. 1,331,230; Feb. 17; v. 271; p. 452.
Aspirator and force-pump, Combined. B. Skidmore, Jr., and E. F. McCarthy. No. 1,361,191; Dec. 7; v. 281; p. 42.
Assembling-machine. O. Ashton. No. 1,356,510; Oct. 26; v. 279; p. 545.
Assembling-machine. D. Bourque. No. 1,332,538; Mar. 2; v. 272; p. 70.
Assembling-machine. J. S. Wentworth. No. 1,336,875; Apr. 13; v. 273; p. 282.
Assembly-tool. R. F. Trimble. No. 1,363,933; Dec. 28; v. 281; p. 719.
Assorting and distributing machine, Product. F. H. Ballou. No. 1,346,438; July 13; v. 276; p. 281.
Astronomical instrument. E. Meitner. No. 1,346,412; July 13; v. 276; p. 275.
Athletic exerciser. W. Schurr. No. 1,353,938; Sept. 28; v. 278; p. 575.
Atomizer. J. H. Beynon. No. 1,340,433; May 18; v. 274; p. 468.
Atomizer. J. G. Goodhue. No. 1,329,833; Feb. 3; v. 271; p. 91.
Atomizer. J. G. Goodhue. No. 1,329,834; Feb. 3; v. 271; p. 92.
Atomizer. J. G. Goodhue. No. 1,332,622; Mar. 2; v. 272; p. 86.
Atomizer. A. M. Holmes. No. 1,351,012; Aug. 24; v. 277; p. 731.
Atomizer. G. M. Johns. No. 1,330,448; Feb. 10; v. 271; p. 287.
Atomizer. G. M. Johns. No. 1,355,339; Oct. 12; v. 279; p. 229.
Atomizer. G. M. Johns. No. 1,361,526; Dec. 7; v. 281; p. 111.
Atomizer. G. M. Johns. No. 1,361,527; Dec. 7; v. 281; p. 111.
Atomizer. E. P. Marsh. No. 1,356,166; Oct. 19; v. 279; p. 431.
Atomizer and vaporizer, Combined. P. F. Zietlow. No. 1,354,641; Oct. 5; v. 279; p. 39.
Atomizer or sprayer. B. P. Hall. No. 1,357,452; Nov. 2; v. 280; p. 48.
Atomizing materials in a melted state, Process of and apparatus for. E. Odam. No. 1,328,446; Jan. 20; v. 270; p. 891.
Atomizing-nozzle. H. J. Zimmermann. No. 1,363,703; Dec. 28; v. 281; p. 674.
Attachment device, Separable. R. B. Benjamin. No. 1,352,776; Sept. 14; v. 278; p. 242.
Auction-sales records, Cover for. S. D. Page. No. 1,345,329; June 29; v. 275; p. 973.
Audiphone. C. Larrick. No. 1,351,254; Aug. 31; v. 277; p. 841.
Auditorium-chair. R. G. Trucksess. No. 1,344,216; June 22; v. 275; p. 691.
Auger. C. Henry. No. 1,358,545; Nov. 9; v. 280; p. 323.
Auger. R. Prew. No. 1,352,313; Sept. 7; v. 278; p. 115.
Augers, Method or process of operating. W. E. Moore. No. 1,363,049; Dec. 21; v. 281; p. 507.
Auto attachment. J. Lines. No. 1,336,305; Apr. 6; v. 273; p. 113.
Auto block-signal. E. Nicholas. No. 1,345,218; June 29; v. 275; p. 951.
Auto-bumper. L. Cohen. No. 1,351,837; Sept. 7; v. 278; p. 25.
Auto-bumper. L. Cohen. No. 1,360,369; Nov 30; v. 280; p. 838.
Auto-bumper. T. L. Robertson. No. 1,348,053; July 27; v. 276; p. 717.
Auto bumper and wheel lock. W. D. Goza. No. 1,362,416; Dec. 14; v. 281; p. 332.
Auto burglar-alarm. G. M. Bradley. No. 1,327,266; Jan. 6; v. 270; p. 72.
Auto-chassis. G. L. Kline. No. 1,347,337; July 20; v. 276; p. 517.
Auto direction-signal. H. W. Shelly. No. 1,335,033; Mar. 30; v. 272; p. 759.
Auto-door antirattling device. T. J. Martin. No. 1,344,644; June 29; v. 275; p. 842.
Auto-fuel-supply lock. J. R. Cassingham and W. W. Ayres. No. 1,328,616; Jan. 20; v. 270; p. 424.
Auto-hood clamp. T. J. Martin. No. 1,358,012; Nov. 9; v. 280; p. 216.
Auto-jack. C. M. Borneman. No. 1,332,596; Mar. 2; v. 272; p. 81.
Auto-jack. W. M. Cook. No. 1,348,851; Aug. 10; v. 277; p. 191.
Auto-license-indicating device. H. A. Kleine. No. 1,342,850; June 8; v. 275; p. 296.
Auto-lock. C. U. Folster. No. 1,329,891; Feb. 3; v. 271; p. 9.
Auto-lock. F. J. Harvey. No. 1,341,055; May 25; v. 274; p. 657.
Auto-lock. G. F. Smith. No. 1,336,384; Apr. 6; v. 273; p. 129.
Auto-pedals lock. F. P. Maize. No. 1,346,098; July 6; v. 276; p. 152.
Auto-protector. H. B. Harkins, H. B. Holstein, and W. A. Poland. No. 1,360,944; Nov. 30; v. 280; p. 951.
Auto pull-out. L. Hammer. No. 1,343,625; June 15; v. 275; p. 511.
Auto-rim. S. Stephens. No. 1,341,942; June 1; v. 275; p. 65.
Auto-signal. B. Anoschenco. No. 1,359,308; Nov. 16; v. 280; p. 516.
Auto-signal. J. O'Donnell, Jr. No. 1,312,181; June 1; v. 275; p. 112.
Auto-signal. E. Ortman. No. 1,349,092; Aug. 10; v. 277; p. 238.
Auto signal-arm. C. Townsend. No. 1,342,007; June 1; v. 275; p. 77.
Auto sleigh attachment. M. G. Morse. No. 1,363,148; Dec. 21; v. 281; p. 527.
Auto-tire spring. M. H. Standley. No. 1,336,868; Apr. 13; v. 273; p. 281.
Auto steering-lock. L. F. Cosby. No. 1,342,276; June 1; v. 275; p. 130.
Auto tail and license-number light. A. Overtree. No. 1,356,494; Oct. 19; v. 279; p. 494.

Digitized by Google

Alphabetical list of inventions—Continued.

Auto-theft signal. J. W. Marr. No. 1,350,032; Aug. 17; v. 277; p. 495.
Auto-top. A. E. Lyons. No. 1,353,925; Sept. 28; v. 278; p. 572.
Auto-tops, Detachable side curtain for. J. H. Lamb. No. 1,330,762; Feb. 10; v. 271; p. 296.
Auto traffic-signal. H. J. Hankee. No. 1,327,671; Jan. 13; v. 270; p. 209.
Auto-trailer. R. S. Beamish and H. G. Schaefer. No. 1,331,410; Feb. 17; v. 271; p. 486.
Autos and trailers, Disk-flange attachment to. M. B. Thompson. No. 1,352,561; Sept. 14; v. 278; p. 199.
Autos, Wind-deflector for. L. J. Sanker. No. 1,359,843; Nov. 23; v. 280; p. 667.
Autographic film-cartridge and using same. J. P. Scannell. No. 1,358,990; Nov. 16; v. 280; p. 456.
Autographic register. E. J. Barker. No. 1,338,167; Apr. 27; v. 273; p. 671.
Autographic register. A. P. F. Pico. No. 1,329,676; Feb. 3; v. 271; p. 62.
Automatic actuation of mechanisms, Apparatus for. E. E. Littlefield. No. 1,335,380; Mar. 30; v. 272; p. 824.
Automatic air-chuck. F. A. B. Holmes. No. 1,362,699; Dec. 21; v. 281; p. 439.
Automatic air-gage. J. K. Greer and C. Curtright. No. 1,334,897; Mar. 23; v. 272; p. 673.
Automatic automotive transmission. W. D. M. Howard. No. 1,335,169; Mar. 30; v. 272; p. 784.
Automatic brake. V. Barningham and S. G. Ashby. No. 1,346,628; July 13; v. 276; p. 318.
Automatic brake. C. U. North. No. 1,361,089; Dec. 7; v. 281; p. 22.
Automatic brake. A. Swenson. No. 1,342,699; June 8; v. 275; p. 265.
Automatic-controlled railway stopping system. F. G. Higgins and R. L. Miller. No. 1,363,595; Dec. 28; v. 281; p. 653.
Automatic controlling device. C. J. Stuart. No. 1,353,434; Sept. 21; v. 278; p. 431.
Automatic coupling. J. W. Buller. No. 1,333,884; Mar. 9; v. 272; p. 281.
Automatic coupling. W. V. Phillips. No. 1,349,433; Aug. 10; v. 277; p. 306.
Automatic decelerating device. J. F. Layng. No. 1,347,784; July 27; v. 276; p. 663.
Automatic discount-calendar. O. W. Brazeau. No. 1,364,030; Dec. 28; v. 281; p. 787.
Automatic dump-lock. T. E. De Vol. No. 1,341,499; May 25; v. 274; p. 743.
Automatic eraser. A. P. de Leon. No. 1,363,848; Dec. 28; v. 281; p. 703.
Automatic-gate. E. Bach. No. 1,343,023; June 8; v. 275; p. 330.
Automatic gate. M. F. Emerson. No. 1,334,992; Mar. 30; v. 272; p. 751.
Automatic gate. J. Homeniuk. No. 1,332,399; Mar. 2; v. 272; p. 43.
Automatic gate. C. D. Kelley. No. 1,356,989; Oct. 26; v. 279; p. 638.
Automatic gate. D. W. McCallum. No. 1,354,320; Sept. 28; v. 278; p. 653.
Automatic-locking spring-washer. A. T. Mills. No. 1,353,776; Sept. 21; v. 278; p. 499.
Automatic lubricator. E. Hanson. No. 1,334,899; Mar. 23; v. 272; p. 674.
Automatic machine. J. P. Brophy. No. 1,343,344; June 15; v. 275; p. 455.
Automatic machine. M. E. Fernald. No. 1,328,144; Jan. 13; v. 270; p. 298.
Automatic piano and the like, Solo-playing. E. S. Coder. No. 1,363,839; Dec. 28; v. 281; p. 701
Automatic railway-train stop. F. G. Higgins and R. L. Miller. No. 1,363,594; Dec. 28; v. 281; p. 653.
Automatic regulator. H. R. Davies. No. 1,346,181; July 13; v. 276; p. 280.
Automatic regulator. A. W. Greene. No. 1,331,867; Feb. 24; v. 271; p. 594.
Automatic release-coupling. L. Roberton. No. 1,356,741; Oct. 26; v. 279; p. 590.
Automatic reversing mechanism for ink-ribbons. E. W. Hart. No. 1,363,509; Dec. 28; v. 281; p. 636.
Automatic safety-gate. F. D. Proctor and A. Losson. No. 1,331,673; Feb. 24; v. 271; p. 556.
Automatic screen. S. Heath. No. 1,338,223; Apr. 27; v. 273; p. 682.
Automatic segment-weir. O. Sommer. No. 1,363,820; Dec. 28; v. 281; p. 697.
Automatic selecting-switch. A. B. Sperry. No. 1,337,285; Apr. 20; v. 273; p. 434.
Automatic signal. R. Valli. No. 1,335,470; Mar. 30; v. 272; p. 840.
Automatic sprinkler. F. T. Gentile. No. 1,345,592; July 6; v. 276; p. 52.
Automatic stabilizer for flying-machines. C. H. Rosseel. No. 1,362,965; Dec. 21; v. 281; p. 490.
Automatic stabilizing apparatus. L. I. Henry. No. 1,335,893; Apr. 6; v. 273; p. 36.
Automatic stay-arm. W. E. Villinger. No. 1,335,626; Mar. 30; v. 272; p. 869.
Automatic switch. C. W. Eisenmann. No. 1,348,098; July 27; v. 276; p. 726.
Automatic switch. J. L. McQuarrie. No. 1,337,784; Apr. 20; v. 273; p. 529.
Automatic switch. J. N. Reynolds and J. F. Hearn. No. 1,337,794; Apr. 20; v. 273; p. 530.
Automatic train control. J. S. Crawford. No. 1,362,927; Dec. 21; v. 281; p. 483.
Automatically-operated support. S. E. Sudbury. No. 1,346,773; July 13; v. 276; p. 347.
Automatically-operable top-frame. E. L. Kuns. No. 1,334,881; Mar. 23; v. 272; p. 575.
Automatically-operable top-frame. E. L. Kuns. No. 1,334,882; Mar. 23; v. 272; p. 575.
Automatically-played musical instruments, Means for reproducing text and other matter on music-sheets for. C. E. White. No. 1,363,941; Dec. 28; v. 281; p. 720.
Automatograph. C. W. Davison. No. 1,340,529; May 18; v. 274; p. 486.
Automobile. W. Colburn. No. 1,333,246; Mar. 9; v. 272; p. 255.
Automobile. R. S. Fend. No. 1,337,007; Apr. 13; v. 273; p. 307.
Automobile. R. S. Fend. No. 1,336,008; Apr. 13; v. 273; p. 307.
Automobile. F. E. Fisher. No. 1,331,492; Feb. 24; v. 271; p. 522.
Automobile. C. E. McCormick. No. 1,360,656; Nov. 30; v. 280; p. 896.
Automobile accelerator. C. L. Mitchell. No. 1,347227; July 20; v. 276; p. 495.
Automobile accessory. E. T. Gove. No. 1,361,321; Dec. 7; v. 281; p. 68.
Automobile accessory. J. H. E. Thomsen. No. 1,333,516; Mar. 9; v. 272; p. 305.
Automobile-alarm. G. M. Campbell. No. 1,347,495; July 27; v. 276; p. 605.
Automobile-alarm. W. R. Moran. No. 1,345,387; July 6; v. 276; p. 12.
Automobile-alarm, Audible. H. Morgan. No. 1,332,267; Mar. 2; v. 272; p. 18.
Automobile alarm device. A. A. Goldblatt. No. 1,327,998; Jan. 13; v. 270; p. 269.
Automobile alarm-signal. W. R. D. McQuarrie. No. 1,330,206; Feb. 10; v. 271; p. 193.
Automobile and like vehicle. R. Eastwood. No. 1,331,745; Feb. 24; v. 271; p. 570.
Automobile and motor-boat, Combined. E. Sairanen. No. 1,344,817; June 22; v. 275; p. 712.
Automobile and other vehicles and machines, Electrical control mechanism for. W. J. P. Moore. No. 1,337,613; Apr. 20; v. 273; p. 496.
Automobile antifreezing device. F. Wendling. No. 1,355,069; Oct. 5; v. 279; p. 123.
Automobile-antirattler. W. H. Shondell. No. 1,330,285; Feb. 10; v. 271; p. 207.
Automobile antiskid attachment. M. T. Weston. No. 1,355,372; Oct. 12; v. 279; p. 236.
Automobile antiskidding device. E. B. Nye. No. 1,362,572; Dec. 14; v. 281; p. 363.
Automobile attachment. J. Chaloupka. No. 1,355,537; Oct. 12; v. 279; p. 567.
Automobile attachment. C. M. Eveleth. No. 1,334,362; Mar. 23; v. 272; p. 571.
Automobile attachment. L. F. Fuller. No. 1,338,915; May 4; v. 274; p. 49.
Automobile attachment. E. G. Hantzsch. No. 1,339,822; May 11; v. 274; 295.
Automobile attachment. R. W. Harris. No. 1,337,555; Apr. 20; v. 273; p. 485.
Automobile attachment. M. A. Leach. No. 1,337,522; Apr. 20; v. 273; p. 479.
Automobile attachment. A. E. Olander. No. 1,356,395; Oct. 19; v. 279; p. 476.
Automobile attachment. R. Youmans. No. 1,335,631; Mar. 30; v. 272; p. 870.
Automobile attachment, Life-saver. M. Doujak. No. 1,346,486; July 13; v. 276; p. 290.
Automobile auxiliary table. S. M. Debakey. No. 1,337,886; Apr. 20; v. 273; p. 548.
Automobile-bed. J. S. Turner. No. 1,363,627; Dec. 28; v. 281; p. 659.
Automobile-beds, Folding support for. G. C. Lederer. No. 1,360,961; Nov. 30; v. 280; p. 954.
Automobile-bodies, Apparatus for conveying. J. E. McBride. No. 1,344,419; June 22; v. 275; p. 732.
Automobile-bodies, Sliding door for. J. H. Collins and T. Day. No. 1,334,132; Mar. 16; v. 272; p. 483.
Automobile-body construction. B. M. Diver. No. 1,339,325; May 4; v. 274; p. 124.
Automobile-body construction. J. J. Jones. No. 1,352,066; Sept. 7; v. 278; p. 68.
Automobile-body construction, Convertible. L. Bresin. No. 1,348,624; Aug. 3; v. 277; p. 96.
Automobile-body, Convertible. W. L. Carter. No. 1,343,655; June 15; v. 275; p. 517.
Automobile-body, Convertible. J. J. McGuire. No. 1,344,546; June 22; v. 275; p. 757.
Automobile-body lock. W. E. Harmon. No. 1,361,052; Dec. 7; v. 281; p. 14.
Automobile-brake. E. V. Lawrence. No. 1,350,318; Aug. 24; v. 277; p. 590.
Automobile-brake. B. W. Olson. No. 1,339,524; May 11; v. 274; p. 238.
Automobile brake attachment. H. W. Haapanen. No. 1,350,726; Aug. 24; v. 277; p. 677.
Automobile-brake-lever lock. E. W. Irish. No. 1,330,117; Feb. 10; v. 271; p. 176.

Digitized by Google

Automobile-brake lock. T. J. McCarthy. No. 1,362,124; Dec. 14; v. 281; p. 276.
Automobile brake mechanism. A. Doble. No. 1,360,505; Nov. 30; v. 280; p. 866.
Automobile-brake mechanism. H. Josephson. No. 1,339,895; May 11; v. 274; p. 309.
Automobile-buffer. W. G. Cox. No. 1,335,877; Apr. 6; v. 273; p. 32.
Automobile-buffer. R. T. Newton. No. 1,343,741; June 15; v. 275; p. 534.
Automobile-buffer attacher. G. A. Lyon. No. 1,358,687; Nov. 9; v. 280; p. 351.
Automobile-buffer attacher. G. A. Lyon. No. 1,358,688; Nov. 9; v. 280; p. 352.
Automobile-buffer attacher. G. A. Lyon. No. 1,358,689; Nov. 9; v. 280; p. 352.
Automobile-buffer, Looped-attacher. G. A. Lyon. No. 1,351,050; Aug. 31; v. 277; p. 802.
Automobile-buffer, Stiffened-front. G. A. Lyon. No. 1,357,506; Nov. 2; v. 280; p. 57.
Automobile-bumper. E. A. Arnold and B. E. Rothig. No. 1,354,273; Sept. 28; v. 278; p. 644.
Automobile-bumper. L. Baumgartl. No. 1,346,478; July 13; v. 276; p. 289.
Automobile-bumper. W. S. Booth. No. 1,328,786; Jan. 20; v. 270; p. 455.
Automobile-bumper. C. Bowen. No. 1,329,334; Jan. 27; v. 270; p. 586.
Automobile-bumper. C. Bowen. No. 1,363,201; Dec. 21; v. 281; p. 537.
Automobile-bumper. C. Bowen. No. 1,363,202; Dec. 21; v. 281; p. 537.
Automobile-bumper. W. De Graw. No. 1,355,592; Oct. 12; v. 279; p. 278.
Automobile-bumper. L. W. Dilweg. No. 1,340,867; May 18; v. 274; p. 549.
Automobile-bumper. W. S. Frazier. No. 1,338,433; Apr. 27; v. 273; p. 721.
Automobile-bumper. C. C. Helman. No. 1,339,756; May 11; v. 274; p. 283.
Automobile-bumper. W. V. Isgrig. No. 1,353,241; Sept. 21; v. 278; p. 393.
Automobile-bumper. E. W. Kaiser. No. 1,328,283; Jan. 20; v. 270; p. 361.
Automobile-bumper. F. Kammitter. No. 1,342,290; June 1; v. 275; p. 133.
Automobile-bumper. W. P. Limacher. No. 1,341,917; June 1; v. 275; p. 59.
Automobile-bumper. A. L. McGregor. No. 1,358,184; Nov. 16; v. 280; p. 491.
Automobile-bumper. A. L. McGregor. No. 1,358,964; Nov. 16; v. 280; p. 451.
Automobile-bumper. A. L. McGregor. No. 1,358,965; Nov. 16; v. 280; p. 451.
Automobile-bumper. A. L. McGregor. No. 1,359,186; Nov. 16; v. 280; p. 492.
Automobile-bumper. A. L. McGregor. No. 1,361,599; Dec. 7; v. 281; p. 125.
Automobile-bumper. A. L. McGregor. No. 1,361,600; Dec. 7; v. 281; p. 125.
Automobile-bumper. W. J. Millard. No. 1,348,030; July 27; v. 276; p. 712.
Automobile-bumper. E. Parradee. No. 1,355,773; Oct. 12; v. 279; p. 312.
Automobile-bumper. F. R. Procunier. No. 1,352,220; Sept. 7; v. 278; p. 97.
Automobile-bumper. P. D. Read. No. 1,341,393; June 1; v. 275; p. 151.
Automobile-bumper. J. H. Sager. No. 1,345,553; July 6; v. 276; p. 45.
Automobile-bumper. J. H. Sager. No. 1,345,554; July 6; v. 276; p. 45.
Automobile-bumper. S. H. Shaw. No. 1,363,927; Dec. 28; v. 281; p. 717.
Automobile-bumper. H. Taylor. No. 1,338,597; Apr. 27; v. 273.
Automobile-bumper. R. J. Traupmann. No. 1,338,048; Apr. 27; v. 273; p. 649.
Automobile bumper and fender. A. P. Olson. No. 1,332,142; Feb. 24; v. 271; p. 644.
Automobile bumper and fender, Combined. S. E. Horne. No. 1,347,699; July 27; v. 276; p. 646.
Automobile-bumper clamp. L. P. Halladay. No. 1,344,797; June 29; v. 275; p. 872.
Automobile-bumper support. L. P. Halladay. No. 1,344,796; June 29; v. 275; p. 871.
Automobile-bumper support. L. P. Halladay. No. 1,344,799; June 29; v. 275; p. 872.
Automobile-bumpers, Support for. L. P. Halladay. No. 1,344,798; June 29; v. 275; p. 872.
Automobile, Camping-. W. S. Bunker. No. 1,327,589; Jan. 6; v. 270; p. 132.
Automobile-cast-plate wheel. W. E. Williams. No. 1,361,654; Dec. 7; v. 281; p. 136.
Automobile-chassis. J. W. Lovell. No. 1,338,383; Apr. 27; v. 273; p. 712.
Automobile-chassis, Extension unit for. W. M. McEwen. No. 1,360,770; Nov. 30; v. 280; p. 918.
Automobile-chock. F. Retterer. No. 1,353,541; Sept. 21; v. 278; p. 452.
Automobile collapsible wheel. L. G. NeVille. No. 1,359,827; Nov. 23; v. 280; p. 664.
Automobile commutator attachment. G. A. Farrer. No. 1,357,158; Oct. 26; v. 279; p. 671.
Automobile construction. L. L. Scott. No. 1,358,117; Nov. 9; v. 280; p. 237.
Automobile-control device. E. A. and C. R. Page. No. 1,342,060; June 1; v. 275; p. 88.
Automobile-controlling device. F. W. Norton. No. 1,332,228; Mar. 2; v. 272; p. 10.
Automobile-controlling device. F. W. Norton. No. 1,336,856; Apr. 13; v. 273; p. 279.
Automobile controlling mechanism. G. A. Bilgere. No. 1,334,345; Mar. 23; v. 272; p. 568.
Automobile-controlling pedals, Attachment for. J. C. Carmody. No. 1,342,372; June 1; v. 275; p. 148.
Automobile conversion, Device for. H. R. Harrison. No. 1,342,142; June 1; v. 275; p. 104.
Automobile-cowl attachment. J. H. Coffman. No. 1,349,715; Aug. 17; v. 277; p. 435.
Automobile-cranker. A. C. Tennyson. No. 1,343,531; June 15; v. 275; p. 492.
Automobile cranking device. B. D. Richards. No. 1,334,168; Mar. 16; v. 272; p. 489.
Automobile-creeper. W. J. Broome. No. 1,349,941; Aug. 17; v. 277; p. 477.
Automobile-curtain. S. A. Gates. No. 1,353,568; Sept. 21; v. 278; p. 437.
Automobile-curtain compartment. J. W. Applin. No. 1,351,547; Aug. 31; v. 277; p. 900.
Automobile-curtains, Means for storing. A. Vetter. No. 1,358,051; Nov. 9; v. 280; p. 222.
Automobile danger-signal. J. Schacht. No. 1,336,381; Apr. 6; v. 273; p. 128.
Automobile device. G. H. Filkins. No. 1,328,654; Jan. 20; v. 270; p. 431.
Automobile dimmer-shade. J. N. Hoffman. No. 1,362,866; Dec. 21; v. 281; p. 472.
Automobile direction-indicator. F. E. Allen. No. 1,332,094; Feb. 24; v. 271; p. 686.
Automobile direction-indicator. B. Carlisle. No. 1,353,023; Sept. 14; v. 278; p. 291.
Automobile direction-indicator. C. W. Landers. No. 1,345,199; June 29; v. 275; p. 947.
Automobile direction-indicator. E. J. Smith. No. 1,354,628; Oct. 5; v. 279; p. 37.
Automobile direction-indicator. J. Sobocinski. No. 1,345,562; July 6; v. 276; p. 47.
Automobile direction-indicator. B. Sutton. No. 1,342,529; June 15; v. 275; p. 492.
Automobile direction-indicator. G. J. Turcotte. No. 1,355,717; Oct. 12; v. 279; p. 302.
Automobile direction-signal. G. A. Forsberg. No. 1,351,635; Aug. 31; v. 277; p. 917.
Automobile direction-signal. J. F. Lynch. No. 1,357,504; Nov. 2; v. 280; p. 57.
Automobile direction-signal. W. L. and E. A. F. Miller, Jr. No. 1,350,463; Aug. 24; v. 277; p. 626.
Automobile direction-signal. G. W. Pardee. No. 1,355,061; Oct. 5; v. 279; p. 122.
Automobile door-handle. W. Miller. No. 1,342,058; June 1; v. 275; p. 87.
Automobile-door handle. A. L. Nelson. No. 1,357,892; Nov. 2; v. 280; p. 132.
Automobile-door lock. G. Harrison, Jr. No. 1,354,104; Sept. 28; v. 278; p. 610.
Automobile-door-opening device. N. J. Delohi. No. 1,338,560; Apr. 27; v. 273; p. 745.
Automobile draft appliance. C. F. Butler. No. 1,355,640; Oct. 12; v. 279; p. 287.
Automobile-drive. E. James. No. 1,352,130; Sept. 7; v. 278; p. 80.
Automobile-drive. E. James. No. 1,352,131; Sept. 7; v. 278; p. 81.
Automobile dump-body. C. A. Omen. No. 1,328,890; Jan. 27; v. 270; p. 505.
Automobile electrical apparatus. L. M. Wolffsohn. No. 1,330,567; Feb. 10; v. 271; p. 260.
Automobile emergency-tank. S. H. Love. No. 1,351,336; Aug. 31; v. 277; p. 858.
Automobile-engine-control device. A. Gaillard. No. 1,363,404; Dec. 21; v. 281; p. 615.
Automobile-engine-starting means. S. B. McHenry. No. 1,329,091; Jan. 27; v. 270; p. 542.
Automobile equipment, Non-skid and extra-torque. C. Reynolds. No. 1,334,923; Mar. 28; v. 272; p. 679.
Automobile, Extensible. J. L. Ware. No. 1,342,139; June 1; v. 275; p. 103.
Automobile-extracting device. S. Clare. No. 1,357,148; Oct. 26; v. 279; p. 670.
Automobile-extractor. V. L. Robertson. No. 1,333,133; Mar. 9; v. 272; p. 234.
Automobile-extractor. O. N. Waelti and E. F. Cheney. No. 1,334,195; Mar. 16; v. 272; p. 493.
Automobile-fender. J. R. De Franc. No. 1,361,692; Dec. 7; v. 281; p. 143.
Automobile-fender. A. Di Lorenzo. No. 1,333,797; Mar. 16; v. 272; p. 419.
Automobile-fender. P. Fedorow. No. 1,347,624; July 27; v. 276; p. 631.
Automobile-fender. S. Greenstone. No. 1,331,910; Feb. 24; v. 271; p. 601.
Automobile-fender. S. E. Horne and E. and H. Lucas. No. 1,363,738; Dec. 28; v. 281; p. 681.

Digitized by Google

Alphabetical list of inventions—Continued.

Automobile floor-board. L. A. Young. No. 1,343,108; June 8; v. 275; p. 858.
Automobile front-wheel drive. B. F. Gregory and W. H. Craun. No. 1,361,047; Dec. 7; v. 281; p. 13.
Automobile fuel-tank. A. H. Hughes and H. S. Curren. No. 1,360,406; Nov. 30; v. 280; p. 846.
Automobile gasolene-control lock. W. H. and C. Naylor. No. 1,331,120; Feb. 17; v. 271; p. 433.
Automobile-gearing lock. C. W. Weidner. No. 1,362,377; Dec. 14; v. 281; p. 825.
Automobile gear-lock. C. G. Trosien. No. 1,353,119; Sept. 14; v. 278; p. 309.
Automobile gear-lock. C. G. Trosien. No. 1,353,120; Sept. 14; v. 278; p. 309.
Automobile-gearlock. C. G. Fette. No. 1,363,766; Dec. 28; v. 281; p. 686.
Automobile hand-controlled levers, Locking device for. E. A. Olsen. No. 1,333,215; Mar. 9; v. 272; p. 249.
Automobile hauling attachment. E. Krumland. No. 1,353,762; Sept. 21; v. 278; p. 497.
Automobile-headrest. A. A. McCann. No. 1,358,644; Nov. 9; v. 280; p. 342.
Automobile-heater. A. J. Adamson. No. 1,340,314; May 18; v. 274; p. 445.
Automobile-heater. S. H. Creighton. No. 1,359,490; Nov. 23; v. 280; p. 597.
Automobile-heater. E. M. Heckman. No. 1,354,554; Oct. 5; v. 279; p. 21.
Automobile-heater. E. H. Heller. No. 1,341,126; May 25; v. 274; p. 670.
Automobile-heater. E. I. Johnson. No. 1,357,093; Oct. 26; v. 279; p. 659.
Automobile-heater. M. C. Moody. No. 1,348,032; July 27; v 276; p. 712.
Automobile heating apparatus. J. T. Sainsbury. No. 1,331,384; Feb. 17; v. 271; p. 481.
Automobile heating system. W. M. Fulton. No. 1,358,838; Nov. 16; v. 280; p. 426.
Automobile heating system. W. M. Fulton. No. 1,358,947; Nov. 16; v. 280; p. 448.
Automobile-hoist. H. D. Ball. No. 1,334,431; Mar. 23; v. 272; p. 585.
Automobile-hoist. M. Rasmussen. No. 1,355,690; Oct. 12; v. 279; p. 296.
Automobile-hood. A. G. McGregor. No. 1,356,541; Oct. 26; v. 279; p. 551.
Automobile hood and radiator cover, Electrically-heated. G. T. Newell, Jr. No. 1,361,533; Dec. 7; v. 281; p. 112.
Automobile-hood support. Y. Skala. No. 1,344,095; June 22; v. 275; p. 668.
Automobile-horn. M. F. Fitzgerald. No. 1,355,550; Oct. 12; v. 279; p. 270.
Automobile, Identification attachment for. W. S. Marr. No. 1,343,837; June 15; v. 275; p. 554.
Automobile-identification device. J. R. Green and J. H. Fritz. No. 1,342,627; June 8; v. 275; p. 250.
Automobile-indicator. W. H. Burch. No. 1,352,874; Sept. 14; v. 278; p. 262.
Automobile-indicator. J. and N. Gerke and E. C. Williams. No. 1,343,361; June 15; v. 275; p. 459.
Automobile-indicator. F. Gerstein. No. 1,359,356; Nov 16; v. 280; p. 526.
Automobile instrument-board. T. Zimmerman. No. 1,363,303; Dec. 28; v. 281; p. 597.
Automobile into a closed top, Means for converting a collapsible top of an. H. H. Pape. No. 1,363,908; Dec. 28; v. 281; p. 714.
Automobile-jack. A. Alexander. No. 1,354,529; Oct. 5; v. 279; p. 16.
Automobile-jack. W. H. Butters. No. 1,340,749; May 18; v. 274; p. 527.
Automobile-jack. J. S. Cook. No. 1,348,627; Aug. 3; v. 277; p. 97.
Automobile-jack. E. L. Flum and J. A. Maschino. No. 1,337,125; Apr. 13; v. 273; p. 329.
Automobile-jack. S. Heymann. No. 1,344,036; June 22; v. 275; p. 657.
Automobile-jack. S. Heymann. No. 1,344,037; June 22; v. 275; p. 657.
Automobile-jack. A. S. La Chapelle. No. 1,339,459; May 11; v. 274; p. 226.
Automobile-jack. E. Ostendorf. No. 1,327,060; Jan. 6; v. 270; p. 34.
Automobile-jack. J. W. Paxson. No. 1,347,228; July 20; v. 276; p. 495.
Automobile-jack. A. Percifull. No. 1,331,671; Feb. 24; v. 271; p. 556.
Automobile-jack. G. Ritter. No. 1,359,531; Nov. 23 v. 280; p. 606.
Automobile-jack, Automatic. L. M. Fisher. No. 1,345,842; July 6; v. 276; p. 101.
Automobile-jack, rolling. G. H. Law. No. 1,339,827; May 11; v. 274; p. 296.
Automobile-knuckle. J. J. Stensgard. No. 1,355,709; Oct. 12; v. 279; p. 300.
Automobile license-tags, Illuminating-holder for. H. J. Merkle. No. 1,363,893; Dec. 28; v. 281; p. 711.
Automobile life-guard. L. M. Maxham. No. 1,332,134; Feb. 24; v. 271; p. 643.
Automobile-lifter. J. E. Coffey. No. 1,351,506; Aug. 31; v. 277; p. 892.
Automobile-lifter. W. J. Seas. No. 1,341,620; May 25; v. 274; p. 766.
Automobile-lifter. W. J. Seas. No. 1,341,621; May 25; v. 274; p. 766.
Automobile lifter and turner. B. B. Bradford. No. 1,332,599; Mar. 2; v. 272; p. 81.
Automobile-lifting device. A. E. Trainor and R. F. Morris. No. 1,334,509; Mar. 23; v. 272; p. 599.
Automobile-light-globe holder. H. B. Owens. No. 1,332,517; Mar. 2; v. 272; p. 66.
Automobile light-reflector. A. C. Arnett. No. 1,361,354; Dec. 7; v. 281; p. 75.
Automobile-lighting system. H. J. Bourbonniere. No. 1,362,921; Dec. 21; v. 281; p. 482.
Automobile-lock. W. H. Austin. No. 1,358,813; Nov. 16; v. 280; p. 421.
Automobile-lock. L. Balestrino and G. Merigone. No. 1,348,841; Aug. 10; v. 277; p. 189.
Automobile-lock. J. H. Bast. No. 1,342,151; June 1; v. 275; p. 106.
Automobile-lock. S. A. Berryhill and I. W. Woolley. No. 1,343,807; June 15; v. 275; p. 547.
Automobile-lock. E. C. Boehmig. No. 1,327,979; Jan. 13; v. 270; p. 267.
Automobile-lock. C. E. O. Borck. No. 1,360,616; Nov. 30; v. 280; p. 888.
Automobile-lock. F. O. Boswell. No. 1,353,143; Sept. 21; v. 278; p. 374.
Automobile-lock. I. P. Carpenter. No. 1,334,987; Mar. 30; v. 272; p. 750.
Automobile-lock. I. P. Carpenter. No. 1,358,416; Nov. 9; v. 280; p. 298.
Automobile-lock. J. L. Chackan. No. 1,340,326; May 18; v. 274; p. 447.
Automobile-lock. J. Courtney. No. 1,354,172; Sept. 28; v. 278; p. 623.
Automobile-lock. W. H. Damon. No. 1,328,619; Jan. 20; v. 270; p. 424.
Automobile-lock. F. C. H. Eichorn. No. 1,347,262; July 20; v. 276; p. 503.
Automobile-lock. W. T. Estberg. No. 1,329,114; Jan. 27; v. 270; p. 547.
Automobile-lock. T. C. Fischer. No. 1,346,371; July 13; v. 276; p. 267.
Automobile-lock. C. Gerben. No. 1,354,963; Oct. 5; v. 279; p. 103.
Automobile-lock. R. M. Guy. No. 1,354,102; Sept. 28; v. 278; p. 609.
Automobile-lock. L. B. Halliday. No. 1,350,497; Aug. 24; v. 277; p. 633.
Automobile-lock. W. Henckler. No. 1,345,672; July 6; v. 276; p. 67.
Automobile-lock. J. W. Hunter and E. Williamson. No. 1,351,651; Aug. 31; v. 277; p. 920.
Automobile-lock. T. E. Irion. No. 1,359,068; Nov. 16; v. 280; p. 470.
Automobile-lock. A. Jackson. No. 1,327,432; Jan. 6; v. 270; p. 103.
Automobile-lock. A. Jackson. No. 1,340,051; May 11; v. 274; p. 338.
Automobile-lock. W. E. James. No. 1,343,870; June 15; v. 275; p. 561.
Automobile-lock. W. S. Jameson. No. 1,347,463; July 20; v. 276; p. 542.
Automobile-lock. R. S. Jaques. No. 1,340,393; May 18; v. 274; p. 460.
Automobile-lock. R. C. Jenkins. No. 1,352,132; Sept. 7; v. 278; p. 81.
Automobile-lock. G. C. Jensen. No. 1,342,748; June 8; v. 275; p. 275.
Automobile-lock. N. A. Kaercher. No. 1,361,264; Dec. 7; v. 281; p. 56.
Automobile-lock. A. W. Kemmling. No. 1,350,316; Aug. 24; v. 277; p. 596.
Automobile-lock. H. A. Kendall. No. 1,345,014; June 29; v. 275; p. 912.
Automobile-lock. E. McCracken. No. 1,351,297; Aug. 31; v. 277; p. 850.
Automobile-lock. L. D. McJilton. No. 1,356,079; Oct. 19; v. 279; p. 413.
Automobile-lock. J. Maceska. No. 1,361,391; Dec. 7; v. 281; p. 82.
Automobile-lock. P. N. Madsen. No. 1,356,645; Oct. 26; v. 279; p. 571.
Automobile-lock. C. W. Nickerson. No. 1,336,650; Apr. 13; v. 273; p. 238.
Automobile-lock. W. B. Nimmo and C. S. Swain. No. 1,341,925; June 1; v. 275; p. 61.
Automobile-lock. C. W. Nixon. No. 1,348,891; Aug. 10; v. 277; p. 199.
Automobile-lock. R. Ochsner. No. 1,331,166; Feb. 17; v. 271; p. 441.
Automobile-lock. J. A. Olbon. No. 1,360,673; Nov. 30; v. 280; p. 898.
Automobile-lock. A. A. Ritchie. No. 1,346,135; July 13; v. 276; p. 221.
Automobile-lock. C. R. Ritter. No. 1,359,433; Nov. 16; v. 280; p. 541.
Automobile-lock. J. H. Scott. No. 1,360,692; Nov. 30; v. 280; p. 902.

Digitized by Google

Automobile-lock. W. Seiler. No. 1,332,765; Mar. 2; v. 272; p. 113.
Automobile-lock. T. H. Simpson. No. 1,348,453; Aug. 3; v. 277; p. 63.
Automobile-lock. C. J. Soleau. No. 1,361,108; Dec. 7; v. 281; p. 25.
Automobile-lock. E. St. John. No. 1,354,071; Sept. 28; v. 278; p. 603.
Automobile-lock. R. R. Stabler. No. 1,363,285; Dec. 28; v. 281; p. 593.
Automobile-lock. R. R. Stabler. No. 1,363,373; Dec. 28; v. 281; p. 610.
Automobile-lock. C. C. Trosien. No. 1,348,337; Aug. 3; v. 277; p. 41.
Automobile-lock. C. G. Trosien. No. 1,361,784; Dec. 7; v. 281; p. 161.
Automobile-lock. J. E. Van Deventer and L. Swank. No. 1,329,644; Feb. 3; v. 271; p. 56.
Automobile-lock. R. G. Weissel. No. 1,363,448; Dec. 28; v. 281; p. 624.
Automobile-lock. C. R. Welch. No. 1,331,084; Feb. 17; v. 271; p. 427.
Automobile-lock. C. R. Welch. No. 1,359,213; Nov. 16; v. 280; p. 497.
Automobile-lock. F. L. Wells. No. 1,343,424; June 15; v. 275; p. 471.
Automobile-lock. J. Wenning. No. 1,343,990; June 22; v. 275; p. 648.
Automobile lock and traction device. S. A. Shannon and H. P. Randall. No. 1,337,568. Apr. 20; v. 273; p. 487.
Automobile-lock, Combination automatic. R. Luplow. No. 1,327,601; Jan. 6; v. 270; p. 135.
Automobile-lock, Safety. J. G. Schwartz. No. 1,350,741; Aug. 24; v. 277; p. 680.
Automobile-locking device. L. Faust and E. B. Anderson. No. 1,338,913; May 4; v. 274; p. 49.
Automobile-locking device. J. E. O. Feller. No. 1,359,883; Nov. 23; v. 280; p. 675.
Automobile-locking device. J. P. Geraghty. No. 1,343,049; June 8; v. 275; p. 335.
Automobile-locking device. C. F. Norton. No. 1,349,849; Aug. 17; v. 277; p. 460.
Automobile-locking device. C. G. Read. No. 1,336,379; Apr. 6; v. 273; p. 127.
Automobile luggage-carrier. F. Smith. No. 1,357,736; Nov. 2; v. 280; p. 102.
Automobile mud and dust shield. O. E. Emery. No. 1,352,798; Sept. 14; v. 278; p. 247.
Automobile-muff. C. R. Scott. No. 1,351,303; Aug. 31; v. 277; p. 852.
Automobile multiple-lever lock. L. Balestrino and G. Merigone. No. 1,348,840; Aug. 10; v. 277; p. 189.
Automobile-pedal lock. C. E. Lacy. No. 1,343,459; June 15; v. 275; p. 478.
Automobile-pedal lock. B. Parmenter. No. 1,343,405; June 15; v. 275; p. 467.
Automobile pilot-signal. C. Sealy. No. 1,353,790; Sept. 21; v. 278; p. 502.
Automobile-polish. H. Hilton. No. 1,331,260; Feb. 17; v. 271; p. 458.
Automobile power apparatus. M. A. Lane. No. 1,331,652; Feb. 24; v. 271; p. 552.
Automobile power attachment. A. J. Aitken. No. 1,332,589; Mar. 2; v. 272; p. 79.
Automobile power plants from cold, Protection of. M. C. Furstenau. No. 1,359,049; Nov. 16; v. 280; p. 467.
Automobile-power-transmission device. H. H. Marshall, Jr. No. 1,349,428; Aug. 10; v. 277; p. 305.
Automobile protective device. O. C. Lohse. No. 1,336,306; Apr. 6; v. 273; p. 113.
Automobile-rack. D. P. Cleveland. No. 1,330,303; Feb. 10; v. 271; p. 210.
Automobile-radiator. J. J. Bares. No. 1,361,807; Dec. 14; v. 281; p. 212.
Automobile-radiator heater. C. F. Murray. No. 1,355,245; Oct. 12; v. 279; p. 211.
Automobile radiators, Device for controlling the temperature of. R. L. Pate. No. 1,338,585; Apr. 27; v. 273; p. 749.
Automobile-radiators. Water-level and temperature indicator for. J. A. Wicke. No. 1,330,457; Feb. 10; v. 271; p. 239.
Automobile rear axles, Grease-retainer for. R. W. Ransdell. No. 1,359,428; Nov. 16; v. 280; p. 540.
Automobile rear signal. C. Durning. No. 1,356,814; Oct. 26; v. 279; p. 604.
Automobile reflector dimmer. B. Fuligni and C. J. Muhsgnug. No. 1,336,951; Apr. 13; v. 273; p. 297.
Automobile-rim, Collapsible. L. B. Olney. No. 1,350,262; Aug. 17; v. 277; p. 539.
Automobile runner attachment. C. Peterson. No. 1,337,153; Apr. 13; v. 273; p. 335.
Automobile-running board attachment. G. L. Flanders. No. 1,330,694; Feb. 10; v. 271; p. 283.
Automobile-running-board truss-rods, Repair-clamp for. G. K. Cayiness. No. 1,350,253; Aug. 17; v. 277; p. 538.
Automobile safety appliance. S. Hill. No. 1,334,371; Mar. 23; v. 272; p. 573.
Automobile safety appliance. J. Kainen. No. 1,341,325; May 25; v. 274; p. 709.
Automobile safety device. L. Dunning. No. 1,356,053; Oct. 19; v. 279; p. 408.
Automobile safety-signal. H. R. Dailey. No. 1,351,773; Sept. 7; v. 278; p. 11.
Automobile safety-signal. F. Tekanos. No. 1,352,039; Sept. 7; v. 278; p. 63.
Automobile-sander. A. and O. Teuscher. No. 1,347,306; July 20; v. 276; p. 511.
Automobile sanding device. A. P. Weise. No. 1,342,816; June 1; v. 275; p. 137.
Automobile-screen. G. C. Miller. No. 1,354,987; Oct. 5; v. 279; p. 107.
Automobile-seat. A. F. Schramm. No. 1,332,957; Mar. 9; v. 272; p. 201.
Automobile-seat. G. Tasman. No. 1,357,743; Nov. 2; v. 280; p. 103.
Automobile-seat, Auxiliary. C. M. Smith. No. 1,328,105; Jan. 13; v. 270; p. 291.
Automobile-seat extension. T. F. Snyder. No. 1,342,235; June 1; v. 275; p. 123.
Automobile-seat, Folding. W. F. Polson. No. 1,333,338; Mar. 9; v. 272; p. 272.
Automobile-service recorder. J. F. and F. L. Ohmer. No. 1,360,567; Nov. 30; v. 280; p. 878.
Automobile-shoe. H. M. Cannon. No. 1,356,963; Oct. 26; v. 279; p. 633.
Automobile sight-feed lubricator. G. L. Moore. No. 1,331,996; Feb. 24; v. 271; p. 618.
Automobile-signal. F. Bahler. No. 1,336,718; Apr. 13; v. 273; p. 251.
Automobile-signal. S. D. Carnes. No. 1,351,283; Aug. 31; v. 277; p. 847.
Automobile-signal. E. C. Clark. No. 1,343,248; June 15; v. 275; p. 438.
Automobile-signal. F. V. Doran and O. H. Kirchner. No. 1,348,097; July 27; v. 276; p. 725.
Automobile-signal. C. H. Felton. No. 1,352,946; Sept. 14; v. 278; p. 276.
Automobile-signal. O. Freels. No. 1,353,950; Sept. 28; v. 278; p. 577.
Automobile-signal. W. E. F. Gibson and I. M. James. No. 1,340,537; May 18; v. 274; p. 487.
Automobile-signal. N. Y. Gordon. No. 1,349,063; Aug. 10; v. 277; p. 233.
Automobile-signal. D. W. Grazier. No. 1,351,513; Aug. 31; v. 277; p. 893.
Automobile-signal. C. L. Gregg. No. 1,359,697; Nov. 23; v. 280; p. 638.
Automobile-signal. E. F. Griffin. No. 1,351,642; Aug. 31; v. 277; p. 919.
Automobile-signal. W. S. Harris. No. 1,362,531; Dec. 14; v. 281; p. 355.
Automobile-signal. C. P. Hockett. No. 1,332,258; Mar. 2; v. 272; p. 15.
Automobile-signal. C. J. Hughes. No. 1,350,998; Aug. 24; v. 277; p. 728.
Automobile-signal. C. L. Hyde. No. 1,356,150; Oct. 19; v. 279; p. 427.
Automobile-signal. J. N. Keyser. No. 1,331,344; Feb. 17; v. 271; p. 473.
Automobile-signal. H. Klatt. No. 1,351,662; Aug. 31; v. 277; p. 923.
Automobile-signal. W. A. Lee. No. 1,345,863; July 6; v. 276; p. 105.
Automobile-signal. C. F. Livingston and E. E. Lordge. No. 1,353,253; Sept. 21; v. 278; p. 395.
Automobile-signal. A. E. McCurdy. No. 1,336,644; Apr. 13; v. 273; p. 237.
Automobile-signal. J. L. McWilliams. No. 1,351,667; Aug. 31; v. 277; p. 924.
Automobile-signal. C. Millar. No. 1,349,289; Aug. 10; v. 277; p. 278.
Automobile-signal. J. E. Nichols. No. 1,360,141; Nov. 23; v. 280; p. 727.
Automobile-signal. S. Paintmaier. No. 1,332,748; Mar. 2; v. 272; p. 110.
Automobile-signal. S. M. Pontiere. No. 1,348,182; Aug. 3; v. 277; p. 10.
Automobile-signal. F. C. Roberts. No. 1,354,066; Sept. 28; v. 278; p. 602.
Automobile-signal. J. R. Saurage. No. 1,345,259; June 29; v. 275; p. 959.
Automobile-signal. W. Schierding. No. 1,336,588; Apr. 13; v. 273; p. 226.
Automobile-signal. E. A. Sendker. No. 1,338,703; May 4; v. 274; p. 10.
Automobile-signal. W. C. Sennett. No. 1,344,152; June 22; v. 275; p. 679.
Automobile-signal. E. G. Shane. No. 1,345,557; July 6; v. 276; p. 46.
Automobile-signal. W. Skarnulis. No. 1,328,404; Jan. 20; v. 270; p. 384.
Automobile-signal. P. A. Stover. No. 1,346,567; July 13; v. 276; p. 307.
Automobile-signal. J. Svaigel. No. 1,336,795; Apr. 13; v. 273; p. 267.
Automobile-signal. T. Tanaki. No. 1,356,839; Oct. 26; v. 279; p. 609.
Automobile-signal. W. G. Thomas. No. 1,337,572; Apr. 20; v. 273; p. 488.
Automobile-signal. W. R. Thompson. No. 1,331,832; Feb. 24; v. 271; p. 587.
Automobile-signal. C. Vicenzi. No. 1,331,171; Feb. 17; v. 271; p. 442.

Digitized by Google

Alphabetical list of inventions—Continued.

Automobile-signal. G. W. Wagner. No. 1,334,196; Mar. 16; v. 272; p. 493.
Automobile-signal. J. Wampfler, Jr. No. 1,334,979; Mar. 30; v. 272; p. 748.
Automobile-signal. P. Wertz. No. 1,356,896; Oct. 26; v. 279; p. 620.
Automobile-signal. W. J. Wigman. No. 1,327,128; Jan. 6; v. 270; p. 47.
Automobile signal device. A. C. Darling. No. 1,363,573; Dec. 28; v. 281; p. 649.
Automobile signal device. S. S. Howell. No. 1,347,274; July 20; v. 276; p. 505.
Automobile signal device. W. Jay. No. 1,330,076; Feb. 10; v. 271; p. 168.
Automobile signal device. J. Klipper. No. 1,342,049; June 1; v. 275; p. 85.
Automobile-signal device. C. Roth. No. 1,344,355; June 22; v. 275; p. 719.
Automobile-signal devices, Circuit-closer for. C. Solie. No. 1,348,454; Aug. 3; v. 277; p. 63.
Automobile signal-light. W. H. Baltes. No. 1,350,539; Aug. 24; v. 277; p. 641.
Automobile signal mechanism. D. Thibeault. No. 1,347,063; July 20; v. 276; p. 464.
Automobile signaling device. V. J. Kovsovich. No. 1,337,405; Apr. 20; v. 273; p. 457.
Automobile signaling device. C. H. Shipman. No. 1,331,531; Feb. 24; v. 271; p. 529.
Automobile-skid-chain fastener. O. Patriquin. No. 1,329,923; Feb. 3; v. 271; p. 108.
Automobile-sled-runner attachment. G. W. Corsepius. No. 1,350,069; Aug. 17; v. 277; p. 502.
Automobile speed-control mechanism. M. J. Huggins. No. 1,357,563; Nov. 2; v. 280; p. 68.
Automobile spoked wheel. W. E. Williams. No. 1,361,655; Dec. 7; v. 281; p. 136.
Automobile spot-light. W. B. Haines. No. 1,339,954; May 11; v. 274; p. 320.
Automobile-spring. W. F. Cauley. No. 1,338,673; May 4; v. 274; p. 5.
Automobile-spring. W. H. Holzinger. No. 1,333,806; Mar. 16; v. 272; p. 421.
Automobile-spring. K. G. Peterson. No. 1,362,037; Dec. 14; v. 281; p. 258.
Automobile-starter. H. C. Fentress. No. 1,352,803; Sept. 14; v. 278; p. 248.
Automobile-starter. D. Jokubaitis. No. 1,349,207; Aug. 10; v. 277; p. 261.
Automobile-starters, Controller for air-pressure systems of. T. Davis. No. 1,356,811; Oct. 26; v. 279; p. 604.
Automobile starting device. H. A. Reynolds. No. 1,330,092; Feb. 10; v. 271; p. 171.
Automobile starting mechanism. W. A. Dick. No. 1,332,032; Feb. 24; v. 271; p. 624.
Automobile-starting motors and generators, Adjustable mounting for. G. E. Stevens. No. 1,357,741; Nov. 2; p. 280; p. 103.
Automobile starting system. C. B. Mills. No. 1,343,222. June 15; v. 275; p. 433.
Automobile starting system. C. B. Mills and C. E. Wilson. No. 1,352,468; Sept. 14; v. 278; p. 180.
Automobile steam-drive. P. J. Griffin. No. 1,330,863; Feb. 17; v. 271; p. 383.
Automobile steering apparatus, Spring centering attachment for. J. D. Louden. No. 1,335,064; Mar. 30; v. 272; p. 764.
Automobile steering attachment. D. Macdonald. No. 1,328,681; Jan. 20; v. 270; p. 436.
Automobile-steering devices, Lock for. J. Blackburn. No. 1,343,192; June 15; v. 275; p. 427.
Automobile steering-gear. T. Mansour. No. 1,334,706; Mar. 23; v. 272; p. 635.
Automobile-steering-knuckle arms, Locking device for. E. J. Smith. No. 1,333,878; Mar. 16; v. 272; p. 434.
Automobile steering mechanism. F. C. Stoffer and P. Yost. No. 1,355,517; Oct. 12; v. 279; p. 264.
Automobile steering-rod. C. A. Caldwell. No. 1,343,305; June 15; v. 275; p. 448.
Automobile steering-rod. W. R. Townley and P. H. Leahy. No. 1,362,451; Dec. 14; v. 281; p. 339.
Automobile steering-wheel. C. T. Silver. No. 1,329,934; Feb. 3; v. 271; p. 110.
Automobile-stop. E. D. Finch. No. 1,334,147; Mar. 16; v. 272; p. 485.
Automobile stop-signal. G. Costa and A. Ciccone. No. 1,331,002; Feb. 17; v. 271; p. 411.
Automobile-support. J. N. Duncan. No. 1,340,438; May 18; v. 274; p. 469.
Automobile-tank, Gasolene. M. S. Dickerson. No. 1,343,812; June 15; v. 275; p. 548.
Automobile theft-alarm. O. L. Scott. No. 1,327,573; Jan. 6; v. 270; p. 129.
Automobile-theft-detection device. W. J. Finn. No. 1,335,827; Apr. 6; v. 273; p. 23.
Automobile theft-indicating device. E. S. Grace. No. 1,342,044; June 1; v. 275; p. 85.
Automobile theft-signal. L. Bagl. No. 1,332,097; Feb. 24; v. 271; p. 636.
Automobile theft-signal. H. D. Ells. (Reissue.) No. 14,956; Oct. 12; v. 279; p. 318.
Automobile throttle-lever lock. E. E. Goold. No. 1,356,863; Oct. 26; v. 279; p. 614.
Automobile-tilting machine. F. Weimar. No. 1,334,336; Mar. 23; v. 272; p. 567.
Automobile-timer. L. E. Middlebrook. No. 1,349,523; Aug. 10; v. 277; p. 324.
Automobile-tire. S. B. Holmes. No. 1,363,976; Dec. 28; v. 281; p. 727.
Automobile-tire carrier. C. C. Steel and T. H. Lynn. No. 1,327,742; Jan. 13; v. 270; p. 223.
Automobile-toilet. F. I. Stiles. No. 1,359,544; Nov. 23; v. 280; p. 608.
Automobile-tool. J. Z. Roberge. No. 1,339,289; May 4; v. 274; p. 117.
Automobile-tool. J. W. Wilkins. No. 1,339,612; May 11; v. 274; p. 255.
Automobile-top. E. L. Cronemeyer. No. 1,362,476; Dec. 14; v. 281; p. 343.
Automobile-top. G. L. and H. L. B. Ryder. No. 1,355,064; Oct. 5; v. 279; p. 122.
Automobile-top. E. Spiegel. No. 1,348,593; Aug. 3; v. 277; p. 90.
Automobile-top. H. W. Stewart. No. 1,332,418; Mar. 2; v. 272; p. 47.
Automobile-top. J. Vetter. No. 1,341,087; June 1; v. 275; p. 14.
Automobile-top. J. Vetter. No. 1,347,881; July 27; v. 276; p. 682.
Automobile-top and locking device therefor, Collapsible. P. Ostruk. No. 1,334,313; Mar. 23; v. 272; p. 562.
Automobile-top bow. J. Vetter. No. 1,340,307; May 18; v. 274; p. 443.
Automobile-top, Convertible. A. H. Pape. No. 1,363,909; Dec. 28; v. 281; p. 714.
Automobile-top frame, Adjustable. G. R. Dobbins. No. 1,333,798; Mar. 16; v. 272; p. 419.
Automobile top raising and lowering device. H. T. Nakamizo. No. 1,361,606; Dec. 7; v. 281; p. 127.
Automobile-tops, Curtain-holder for. W. P. Sharp. No. 1,340,799; May 18; v. 274; p. 537.
Automobile-tops, Dressing for. C. A. Honig. No. 1,353,239; Sept. 21; v. 278; p. 393.
Automobile-towing device. L. W. Eleyet, G. L. Ewing, H. E. Mahan, and V. R. Eleyet. No. 1,362,404; Dec. 14; v. 281; p. 330.
Automobile traction device. W. H. Ferch. No. 1,346,813; July 20; v. 276; p. 414.
Automobile-tractor. L. S. Szumkowski. No. 1,350,889; Aug. 24; v. 277; p. 707.
Automobile tractor attachment. W. C. Phillips. No. 1,327,773; Jan. 13; v. 270; p. 228.
Automobile traffic-signal. S. Olszewski. No. 1,349,689; Aug. 17; v. 277; p. 430.
Automobile traffic-signal. O. L. Root, and C. Brainard. No. 1,332,575; Mar. 2; v. 272; p. 77.
Automobile-trailer. W. T. Daum. No. 1,343,197; June 15; v. 275; p. 428
Automobile-trailer. D. P. O'Keefe. No. 1,361,090; Dec. 7; v. 281; p. 22.
Automobile-turn-indicating device. J. Kazienko. No. 1,353,964; Sept. 28; v. 278; p. 580.
Automobile vehicle. C. C. Martin and J. H. Cotton. No. 1,350,462; Aug. 24; v. 277; p. 626.
Automobile vehicles, Device for controlling the speed of. A. Gaillard. No. 1,331,751; Feb. 24; v. 271; p. 571.
Automobile vehicles, on hilly ground, Endless track for facilitating the progression of. E. Rimailho. No. 1,358,575; Nov. 9; v. 280; p. 329.
Automobile ventilating means. J. H. Bourgon. No. 1,361,673; Dec. 7; v. 281; p. 139.
Automobile-ventilator. F. L. Kelzer. No. 1,343,919; June 22; v. 275; p. 635.
Automobile-ventilator. J. W. Raab and R. Edwards. No. 1,346,383; July 13; v. 276; p. 270.
Automobile warning-signal. J. H. Kaesen. No. 1,329,772; Feb. 3; v. 271; p. 79.
Automobile-washers, Motor for. C. C. Howard. No. 1,362,420; Dec. 14; v. 281; p. 333.
Automobile-washing apparatus. H. F. Knapp. No. 1,337,477; Apr. 20; v. 273; p. 470.
Automobile, water-. C. A. Le Jeune. No. 1,341,375; May 25; v. 274; p. 719.
Automobile water connection. H. and L. Hoffman. No. 1,337,227; Apr. 20; v. 273; p. 423.
Automobile water connection. H. and L. Hoffman. No. 1,337,228; Apr. 20; v. 273; p. 423.
Automobile-wheel. E. K. Baker. No. 1,334,011; Mar. 16; v. 272; p. 460.
Automobile-wheel. J. Cherpech. No. 1,332,486; Mar. 2; v. 272; p. 59.
Automobile-wheel. H. S. Cox. No. 1,339,168; May 4; v. 274; p. 96.
Automobile-wheel. E. W. Fairbanks. No. 1,346,084; July 6; v. 276; p. 150.
Automobile-wheel. J. Kogolshsek. No. 1,363,129; Dec. 21; v. 281; p. 523.
Automobile-wheel. O. A. Parker. No. 1,333,674; Mar. 16; v. 272; p. 397.
Automobile-wheel indicator. L. H. Houk. No. 1,360,111; Nov. 23; v. 280; p. 721.
Automobile-wheel jack. A. Erbel and J. Wuepper. No. 1,335,885; Apr. 6; v. 273; p. 34.
Automobile-wheel puller. A. Eichler and C. Jensen. No. 1,361,975; Dec. 14; v. 281; p. 246.

Digitized by Google

Automobile wind-deflector. H. F. Smith. No. 1,334,811; Mar. 23; v. 272; p. 656.
Automobile-window. J. P. Thommen. No. 1,363,376; Dec. 28; v. 281; p. 611.
Automobile wrecking-trailer. G. H. Houck. No. 1,352,898; Sept. 14; v. 278; p. 267.
Automobile - wrench combination. H. Rosenberg. No. 1,353,496; Sept. 21; v. 278; p. 443.
Automobiles, Accelerator-pedal for. I. E. Whitney. No. 1,344,466; June 22; v. 275; p. 741.
Automobiles, Air equipment for. C. R. Feagan. No. 1,347,805; July 27; v. 276; p. 667.
Automobiles, Air-pump connector for. L. G. King. No. 1,344,539; June 22; v. 275; p. 756.
Automobiles and all other kinds of machinery, Gear-puller for. C. W. Stelting. No. 1,351,307; Aug. 31; v. 277; p. 852.
Automobiles and motor-driven vehicles, Auxiliary spring for. A. R. Groff. No. 1,351,105; Aug. 31; v. 277; p. 812.
Automobiles and other conveyances, Storm-shield for. L. H. Sprinkle. No. 1,361,193; Dec. 7; v. 281; p. 42.
Automobiles and other vehicles, Detachable and adjustable seat for. A. V. Roe. No. 1,362,041; Dec. 14; v. 281; p. 259.
Automobiles and other vehicles, Safety way and stop signal for. L. Kuntzler. No. 1,356,295; Oct. 19; v. 279; p. 457.
Automobiles and other vehicles, Shock-absorber for. J. B. Moore. No. 1,349,781; Aug. 17; v. 277; p. 447.
Automobiles and other vehicles, Spring mechanism for. E. P. Dargin. No. 1,346,300; July 13; v. 276; p. 254.
Automobiles and other vehicles, Wheel-lock for. G. R. O'Brien. No. 1,359,419; Nov. 16; v. 280; p. 538.
Automobiles and the like, Electrical apparatus for. J. Bijur. No. 1,362,771; Dec. 21; v. 281; p. 454.
Automobiles, Antiskid device for. J. Grönroos. No. 1,351,750; Sept. 7; v. 278; p. 7.
Automobiles, Antiskid-sander for. E. M. Littell. No. 1,338,640; Apr. 27; v. 273; p. 759.
Automobiles, Apparatus for exchange-batteries in electric. H. Lübeck. No. 1,362,019; Dec. 14; v. 281; p. 255.
Automobiles, Article-carrier support for. L. Skilbred. No. 1,344,729; June 29; v. 275; p. 858.
Automobiles, Audible theft-alarm signal for. E. B. Williams. No. 1,339,873; May 11; v. 274; p. 305.
Automobiles, Automatic gear-shift for H. K. Altick. No. 1,346,151; July 13; v. 276; p. 224.
Automobiles, Automatic starter for. W. L. Bliss. No. 1,335,153; Mar. 30; v. 272; p. 782.
Automobiles, Auxiliary air-attachment for. E. L. Daniels. No. 1,361,519; Dec. 7; v. 281; p. 109.
Automobiles, Auxiliary radiator for. W. Nash. No. 1,353,263; Sept. 21; v. 278; p. 397.
Automobiles, Auxiliary radius-truss for. G. G. Bayne. No. 1,350,771; Aug. 24; v. 277; p. 686.
Automobiles, Battery-charging and starting system for. C. E. F. Ahlm. No. 1,352,166; Sept. 7; v. 278; p. 87.
Automobiles, Carrying-receptacle for. L. M. Edmonds and B. E. Scott. No. 1,356,274; Oct. 19; v. 279; p. 452.
Automobiles, Change-speed gear for. H. Zwolsman. No. 1,359,483; Nov. 23; v. 280; p. 596.
Automobiles, Clutch-releasing mechanism for. A. T. Sturt. No. 1,336,000; Apr. 6; v. 273; p. 56.
Automobiles, Combination-lock for the steering-posts of. J. Racow. No. 1,327,406; Jan. 6; v. 270; p. 97.
Automobiles, Combined rain and glare guard for windshields of. L. W. Lockwood. No. 1,339,770; May 11; v. 274; p. 285.
Automobiles, Combined water and air pump for. J. W. B. Ladd and R. E. Rich. No. 1,341,915; June 1; v. 275; p. 59.
Automobiles, Control-lever lock for. D. Morris and W. Levy. No. 1,346,762; July 13; v. 276; p. 345.
Automobiles, Convertible interior of. W. H. Griffin and O. C. Hartsough. No. 1,353,232; Sept. 21; v. 278; p. 391.
Automobiles, Demountable lamp-bracket for. W. W. Sabin. No. 1,340,686; May 18; v. 274; p. 516.
Automobiles, Detachable auxiliary seat for. B. Salinger. No. 1,347,594; July 27; v. 276; p. 625.
Automobiles, Detachable trunk-rack for. S. W. Friedman. No. 1,337,647; Apr. 20; v. 273; p. 502.
Automobiles, Device for holding extra wheels on bodies of. C. M. Trammell. No. 1,350,896; Aug. 24; v. 277; p. 708.
Automobiles, Device for holding tires upon. C. M. Trammell. No. 1,350,897; Aug. 24; v. 277; p. 708.
Automobiles, Device for repairing fenders. F. A. Briggs. No. 1,348,625; Aug. 3; v. 277; p. 96.
Automobiles, Dirigible-lamp mechanism for. E. King. No. 1,361,468; Dec. 7; v. 281; p. 99.
Automobiles, Door-holding device for. E. A. Boyer. No. 1,348,260; Aug. 3; v. 277; p. 26.
Automobiles, Driving-axle for. R. B. Weaver. No. 1,335,412; Mar. 30; v. 272; p. 829.
Automobiles, Dumping-wagon attachment for. T. E. Newton. No. 1,341,381; May 25; v. 274; p. 720.
Automobiles, Dynamo-electric starting, lighting, and ignition mechanism for. J. A. Heany. No. 1,328,873; Jan. 27; v. 270; p. 501.
Automobiles, Electric direction-indicator for. P. W. Pearsall, Jr. No. 1,331,965; Feb. 24; v. 271; p. 611.
Automobiles, Electrical control system for. W. P. Seng. No. 1,350,426; Aug. 24; v. 277; p. 618.
Automobiles, Electrical signal system for. H. L. Cornell. No. 1,341,735; June 1; v. 275; p. 24.
Automobiles, Electrical system for. W. O. Lum. No. 1,335,120; Mar. 30; v. 272; p. 775.
Automobiles, Folding bed for. M. P. Kay. No. 1,333,924; Mar. 16; v. 272; p. 443.
Automobiles, &c., Four-wheel drive for. H. A. Mieske. No. 1,353,411; Sept. 21; v. 278; p. 426.
Automobiles from mud, sand, or ditches, Device for extracting. W. A. Nash. No. 1,340,238; May 18; v. 274; p. 431.
Automobiles from mudholes, Device for extracting. E. J. Kaczmarek. No. 1,342,749; June 8; v. 275; p. 275.
Automobiles, Front radius-rod for. M. W. Link. No. 1,335,514; Mar. 30; v. 272; p. 848.
Automobiles, Gas-line lock for. J. A. Marley. No. 1,359,411, Nov. 16; v. 280; p. 537.
Automobiles, Gasolene and oil systems for. J. Rebours. No. 1,358,783; Nov. 16; v. 280; p. 415.
Automobiles, Gasolene-reservoir for. R. C. Isphording and G. H. Schultz. No. 1,343,173; June 8; v. 275; p. 359.
Automobiles, Gear-casing and band-operating device for. J. T. Parrish. No. 1,353,812; Sept. 21; v. 278; p. 506.
Automobiles, Heater for. G. S. King. No. 1,363,880; Dec. 28; v. 281; p. 708.
Automobiles, Heating device for the crank-cases of. A. H. Grange. No. 1,356,524; Oct. 26; v. 279; p. 548.
Automobiles, Indentification means for. J. Billings. No. 1,364,025; Dec. 28; v. 281; p. 736.
Automobiles, Identifying means for. H. W. Falconer. No. 1,333,478; Mar. 9; v. 272; p. 299.
Automobiles, Ignition system for. A. C. Stoeckig. No. 1,360,696; Nov. 30; v. 280; p. 903.
Automobiles, Knockdown cabinet for. F. O. Graf. No. 1,337,449; Apr. 20; v. 273; p. 465.
Automobiles, Lens for. W. H. Zorger. No. 1,348,618; Aug. 3; v. 277; p. 95.
Automobiles, Lever-holding mechanism for. T. J. Ritter, Jr., and B. M. Warn. No. 1,328,899; Jan. 27; v. 270; p. 506.
Automobiles, Lever-holding mechanism for. T. J. Ritter, Jr., and B. M. Warn. No. 1,329,142; Jan. 27; v. 270; p. 552.
Automobiles, License-number-plate bracket for. A. Frater, Jr. No. 1,361,574; Dec. 7; v. 281; p. 120.
Automobiles, License-plate holder for. V. A. Buchholtz. No. 1,360,880; Nov. 30; v. 280; p. 939.
Automobiles, Load - carrier for. W. K. Yost. No. 1,346,581; July 13; v. 276; p. 309.
Automobiles, Lock for steering-posts of. C. R. Welch. No. 1,342,728; June 8; v. 275; p. 271.
Automobiles, Lock-up tire-holder for. F. O. Boswell. No. 1,358,275; Nov. 9; v. 280; p. 268.
Automobiles, Locking means for. A. Schwemmer. No. 1,363,676; Dec. 28; v. 281; p. 669.
Automobiles, Lubricant cleaning and replenishing system for. W. L. Morris. No. 1,337,408; Apr. 20; v. 273; p. 457.
Automobiles, Lunch - cabinet for. W. H. Marolf. No. 1,334,107; Mar. 16; v. 272; p. 478.
Automobiles, Means for locking. W. F. Zink. No. 1,327,366; Jan. 6; v. 270; p. 90.
Automobiles, Means for locking electric switches on. E. Cooper. No. 1,348,090; July 27; v. 276; p. 724.
Automobiles, Non-skid chain for. F. O. Boswell. No. 1,356,035; Oct. 19; v. 279; p. 404.
Automobiles of the lighter class, Wheels for. E. K. Baker. No. 1,339,913; May 11; v. 274; p. 312.
Automobiles, Oil-indicator for crank-cases of. J. W. Harrison. No. 1,345,005; June 29; v. 275; p. 910.
Automobiles, Oiling system for. J. V. Carson. No. 1,362,777; Dec. 21; v. 281; p. 455.
Automobiles, Package-carrier for. E. McCoy. No. 1,342,557; June 8; v. 275; p. 238.
Automobiles, Pedal-accelerator for. E. H. Ellison. No. 1,361,374; Dec. 7; v. 281; p. 79.
Automobiles, Pneumatic antivibration device for. G. W. Bell. No. 1,353,886; Sept. 28; v. 278; p. 565.
Automobiles, Pneumatic transmission for. W. C. Kress. No. 1,349,161; Aug. 10; v. 277; p. 252.
Automobiles, Power attachment for. A. C. Beanblossom. No. 1,352,497; Sept. 14; v. 278; p. 186.
Automobiles, Power plant for. N. B. Wales. No. 1,353,099; Sept. 14; v. 278; p. 306.
Automobiles. Power-transmission attachment for. F. Foster. No. 1,355,759; Oct. 12; v. 279; p. 310.
Automobiles, Pump attachment for. W. E. Case. No. 1,355,212; Oct. 12; v. 279; p. 204.
Automobiles, Radiator and hood cover for. W. E. Norcross. No. 1,338,693; May 4; v. 274; p. 8.
Automobiles, Radius-rod for. M. W. Link. No. 1,335,513; Mar. 30; v. 272; p. 848.
Automobiles, Rim, tire, and wheel carrier for. C. E. Moore. No. 1,327,626; Jan. 13; v. 270; p. 200.
Automobiles, Road-shoe for. L. S. Robbins and W. E. Gilmore. No. 1,347,405; July 20; v. 276; p. 531.
Automobiles, Roller - curtain for. P. H. Sager. No. 1,351,403; Aug. 31; v. 277; p. 872.
Automobiles, Running-board and fender support for. A. W. Kirchner. No. 1,337,078; Apr. 13; v. 273; p. 321.

Digitized by Google

Alphabetical list of inventions—Continued.

Automobiles, Safety cranking device for. E. L. Miller. No. 1,327,109; Jan. 6; v. 270; p. 43.
Automobiles, Safety device for. H. and C. Weinberg. (Reissue.) No. 14,831; Mar. 30; v. 272; p. 888.
Automobiles, Safety device for the clutch-controlling means of. J. Calcaterra. No. 1,363,082; Dec. 21; v. 281; p. 514.
Automobiles, Safety device for the clutch-controlling means of. J. Calcaterra. No. 1,363,083; Dec. 21; v. 281; p. 514.
Automobiles, Safety reverse-movement lock for. C. P. Cirac. No. 1,362,783; Dec. 21; v. 281; p. 456.
Automobiles, Safety starting-crank for. D. A. and D. W. Bodiker. No. 1,360,363; Nov. 30; v. 280; p. 837.
Automobiles, Safety steering device for. C. A. Depuy and C. C. Oliver. No. 1,334,082; Mar. 16; v. 272; p. 473.
Automobiles, Safety-vault for. E. J. Scarlett. No. 1,356,742; Oct. 26; v. 279; p. 590.
Automobiles, Semaphore for. A. and H. Bachman. No. 7,336,063; Apr. 6; v. 273; p. 68.
Automobiles, Sight-feed lubricator for. G. L. Moore. No. 1,333,814; Mar. 16; v. 272; p. 422.
Automobiles, Signal and spot light for. H. W. Brown. No. 1,335,364; Mar. 30; v. 272; p. 821.
Automobiles, Signal device for. W. B. Ayer. No. 1,362,665; Dec. 21; v. 281; p. 433.
Automobiles, Signal device for. R. Wetherill. No. 1,339,938; May 11; v. 274; p. 317.
Automobiles, Signal-operating device for. M. Dean. No. 1,351,745; Sept. 7; v. 278; p. 6.
Automobiles, Speed-controlling mechanism for. M. J. Huggins. No. 1,326,935; Jan. 6; v. 270; p. 10.
Automobiles, Speed-controlling mechanism for. M. J. Huggins and W. C. Dressler. No. 1,354,303; Sept. 28; v. 278; p. 650.
Automobiles, Spring-eye protector for. H. K. Reinoehl. No. 1,346,682; July 13; v. 276; p. 329.
Automobiles, Steering-adjuster for. D. Moulder. No. 1,349,469; Aug. 10; v. 277; p. 313.
Automobiles, Steering-gear lock for. H. F. George. No. 1,339,329; May 4; v. 274; p. 125.
Automobiles, Structure particularly for inspecting. O. Bahis. No. 1,357,022; Oct. 26; v. 279; p. 645.
Automobiles, Sun and rain shield for. W. H. Damon. No. 1,332,162; Feb. 24; v. 271; p. 647.
Automobiles, Sun and rain shield for. W. H. Damon. No. 1,348,135; July 27; v. 276; p. 733.
Automobiles, Tail-light and traffic-signaling device for. W. J. Begley. No. 1,336,772; Apr. 13; v. 262.
Automobiles, Thrust-bearing for differential gearing of. J. W. Simmons. No. 1,334,265; Mar. 16; v. 272; p. 506.
Automobiles, Traction and antiskidding device for. J. Belanger. No. 1,344,853; June 29; v. 275; p. 882.
Automobiles, Traction attachment for. J. O. Mook. No. 1,349,083; Aug. 10; v. 277; p. 236.
Automobiles, Tractor attachment for. C. Carson. No. 1,333,963; Mar. 16; v. 272; p. 450.
Automobiles, Tractor attachment for. G. S. Jacobs. No. 1,335,836; Apr. 6; v. 273; p. 25.
Automobiles, Tractor attachment for. M. C. Tunison. No. 1,356,945; Oct. 26; v. 279; p. 630.
Automobiles, Traffic-signal for. A. W. Fernans. No. 1,338,430; Apr. 27; v. 273; p. 720.
Automobiles, Transmission-lock for. J. Malcolm. No. 1,351,001; Aug. 24; v. 277; p. 729.
Automobiles, Vapor-primer for. T. J. McCarthy. No. 1,328,089; Jan. 13; v. 270; p. 287.
Automobiles, Water-carrying hood for steam-. A. R. Carter. No. 1,335,090; Mar. 30; v. 272; p. 770.
Automobiles, Windshield for. T. B. Nisbet. (Reissue.) No. 14,872; June 1; v. 275; p. 156.
Automobilist's caution-signal. W. W. Kuhlmann. No. 1,346,714; July 13; v. 276; p. 335.
Automonocycle. L. G. Wilson. No. 1,345,727; July 6; v. 276; p. 78.
Autoscope. J. Kometter, Jr. No. 1,338,738; May 4; v. 274; p. 17.
Autosled. R. C. Menzies. No. 1,348,436; Aug. 3; v. 277; p. 60.
Autosled. B. T. Tollbom. No. 1,336,448; Apr. 13; v. 273; p. 200.
Autotruck dumping mechanism. E. C. Hugg. No. 1,334,375; Mar. 23; v. 272; p. 574.
Auxiliary frame and spring attachment. J. B. Pospeshil. No. 1,352,625; Sept. 14; v. 278; p. 211.
Auxiliary heater. A. Zacharias. No. 1,332,371; Mar. 2; v. 272; p. 38.
Auxiliary lock. J. F. Gunderson. No. 1,360,289; Nov. 30; v. 280; p. 824.
Auxiliary seat. J. K. Shanaman. No. 1,354,137; Sept. 28; v. 278; p. 616.
Auxiliary wheel. J. J. Gibney. No. 1,360,921; Nov. 30; v. 280; p. 947.
Average-speed meter. C. F. Eaton, Jr. No. 1,343,198; June 15; v. 275; p. 428.
Aviation-bombs, Fuse for. E. Schneider. No. 1,352,542; Sept. 14; v. 278; p. 195.
Aviator's safety device. J. R. Navarre. No. 1,349,782; Aug. 17; v. 277; p. 447.
Avions, Double steering and unclutching apparatus for. R. Dusuzeau. No. 1,331,628; Feb. 24; v. 271; p. 548.
Awning. W. H. McOmber. No. 1,342,452; June 8; v. 275; p. 217.
Awning and screen. F. G. Dare. No. 1,361,747; Dec. 7; v. 281; p. 154.
Awning-arm. J. F. O'Brien. No. 1,351,341; Aug. 31; v. 277; p. 860.
Awning, Baby-coach. J. Karasevics. No. 1,337,360; Apr. 20; v. 273; p. 448.
Awning device. H. E. Thompson. No. 1,346,351; July 13; v. 276; p. 264.
Awning-fastener. A. C. Ross. No. 1,349,532; Aug. 10; v. 277; p. 326.
Awning-guide. D. H. Harnly. No. 1,357,048; Oct. 26; v. 279; p. 650.
Awning-roller support. J. C. Williams. No. 1,346,622; July 13; v. 276; p. 317.
Awning-support. D. A. Johnson. No. 1,358,958; Nov. 16; v. 280; p. 450.
Awning, Window-. H. C. Baker. No. 1,335,930; Apr. 6; v. 273; p. 42.
Ax. C. M. Doolittle. No. 1,354,384; Sept. 28; v. 278; p. 666.
Ax. C. J. Kopriva. No. 1,339,357; May 4; v. 274; p. 130.
Ax. W. R. Munzer. No. 1,330,213; Feb. 10; v. 271; p. 194.
Ax. J. H. Young. No. 1,348,920; Aug. 10; v. 277; p. 205.
Ax-handle shield and fastening. W. T. Hatten. No. 1,347,371; July 20; v. 276; p. 524.
Ax sheath or carrying case. A. Rosenquist. No. 1,342,395; June 1; v. 275; p. 152.
Ax-wedge. J. W. Landquist. No. 1,362,945; Dec. 21; v. 281; p. 486.
Axle adjustment, Crank-. O. E. Kopplin. No. 1,343,268; June 15; v. 275; p. 441.
Axle, Automobile driving-. P. M. Hickok. No. 1,331,565; Feb. 24; v. 271; p. 536.
Axle-box for adjustable locomotive-axles. P. Lefèbvre. No. 1,354,112; Sept. 28; v. 278; p. 611.
Axle brace, Front-. L. E. Bosley. No. 1,354,162; Sept. 28; v. 278; p. 621.
Axle brace, Front-. W. L. Davis. No. 1,333,902; Mar. 16; v. 272; p. 439.
Axle brace, Front-. J. Spohr. No. 1,342,514; June 8; v. 275; p. 229.
Axle, Combined driving and steering. G. A. McGill. No. 1,334,158; Mar. 16; v. 272; p. 487.
Axle construction. L. F. Chrestenson. No. 1,340,932; May 25; v. 274; p. 633.
Axle construction. A. M. Laycock. No. 1,342,634; June 8; v. 275; p. 252.
Axle construction. B. B. Neuteboom. No. 1,331,662; Feb. 24; v. 271; p. 555.
Axle construction. Automobile-. C. A. Dean. No. 1,341,265; May 25; v. 274; p. 697.
Axle construction, Rear-. F. Richard. No. 1,337,411; Apr. 20; v. 273; p. 458.
Axle, Differential. J. M. Aubery. No. 1,344,933; June 29; v. 275; p. 897.
Axle, Folding. J. H. Millard. No. 1,358,092; Nov. 9; v. 280; p. 232.
Axle for motor-vehicles, Internal-gear drive-. R. J. Burrows. No. 1,334,279; Mar. 23; v. 272; p. 556.
Axle implements, Power-lift for crank-. F. M. Mecum. No. 1,349,900; Aug. 17; v. 277; p. 470.
Axle, Internal-gear-drive. R. J. Burrows. No. 1,354,462; Oct. 5; v. 279; p. 3.
Axle lock-nut. E. J. Bricker. No. 1,363,452; Dec. 28; v. 281; p. 625.
Axle mechanism, Differential. F. V. Elberts. No. 1,354,475; Oct. 5; v. 279; p. 6.
Axle radius-rod structure, Front-. T. H. Jacob. No. 1,347,286; July 20; v. 276; p. 507.
Axle, Reclaimed. A. C. Murphy. No. 1,341,432; May 25; v 274; p. 730.
Axle reconstruction. J. R. Fleming. No. 1,340,032; May 11; v. 274; p. 335.
Axle-shaft bearing. A. H. Howell. No. 1,363,118; Dec. 21; v. 281; p. 520.
Axle-stand. J. H. Staley. No. 1,350,119; Aug. 17; v. 277; p. 512.
Axle, Steering-. H. A. Aschaur. No. 1,363,211; Dec. 28; v. 281; p. 579.
Axle, Vehicle-. A. W. Russel. No. 1,344,150; June 22; v. 275; p. 679.
Axle wheel, Hollow-. J. F. Fox. No. 1,359,683; Nov. 23; v. 280; p. 635.
Axles, crank-shafts, &c., Device for refinishing. G. H. Taber. No. 1,345,809; July 6; v. 276; p. 95.
Axles, Forming. S. F. Borkey. No. 1,353,987; Sept. 28; v. 278; p. 585.
Axles, Spring-fitting for vehicle-. J. C. H. Grant. No. 1,353,470; Sept. 21; v. 278; p. 438.
Axles, Tool for testing and straightening. W. B. and P. S. Longest. No. 1,363,890; Dec. 28; v. 281; p. 710.
Babbitting apparatus. W. C. Huguley. No. 1,331,769; Feb. 24; v. 271; p. 574.
Babbitting-machine. A. F. Donaldson. No. 1,332,975; Mar. 9; v. 272; p. 205.
Baby-carriage. E. F. Lark. No. 1,357,878; Nov. 2; v. 280; p. 129.
Baby-carrier. T. W. Hanrath. No. 1,328,832; Jan. 27; v. 270; p. 493.
Baby-carrier. A. C. McGinty. No. 1,330,485; Feb. 10; v. 271; p. 244.

Digitized by Google

Baby-crib and stand. R. M. Dunn. No. 1,362,987; Dec. 21; v. 281; p. 495.
Baby-retainer. J. E. Ball. No. 1,364,019; Dec. 28; v. 281; p. 735.
Baby-walker. J. M. Bowden. No. 1,332,461; Mar. 2; v. 272; p. 55.
Baby-walker. W. Dzimitowicz. No. 1,326,921; Jan. 6; v. 270; p. 7.
Baby-walker. J. A. Eberle. No. 1,328,826; Jan. 27; v. 270; p. 491.
Baby-walker. J. J. Webber. No. 1,342,518; June 8; v. 275; p. 230.
Baby-walker. S. Zoch. No. 1,350,401; Aug. 24; v. 277; p. 613.
Baby-walker, Collapsible. H. C. Gordon. No. 1,357,043; Oct. 26; v. 279; p. 649.
Baby's chair-table. T. Ernst. No. 1,351,634; Aug. 31; v. 277; p. 917.
Back-adjusting device. A. J. Adams. No. 1,361,799; Dec. 14; v. 281; p. 211.
Back-band. E. Read. No. 1,357,823; Nov. 2; v. 280; p. 119.
Back-filling, Method of and apparatus for. L. A. Dolton. No. 1,359,582; Nov. 23; v. 280; p. 616.
Backrest, Adjustable. W. J. Koch. No. 1,345,785; July 6; v. 276; p. 90.
Backrest, Folding. J. J. Vieira. No. 1,363,697; Dec. 28; v. 281; p. 673.
Backwater stop or valve. L. P. Hahn and O. L. Miller. No. 1,348,993; Aug. 10; v. 277; p. 219.
Backwater-trap. H. Boland. No. 1,354,879; Oct. 5; v. 279; p. 86.
Bacteria, Preparation of liquid cultures of nitrifying. F. M. Wood. No. 1,341,030; May 25; v. 274; p. 652.
Badge and means for attaching same to garments. F. T. Austin. No. 1,356,483; Oct. 19; v. 279; p. 492.
Badge or button. J. Bott. No. 1,331,611; Feb. 24; v. 271; p. 544.
Badge or button. T. H. Grady. No. 1,334,239; Mar. 16; v. 272; p. 501.
Badges, Naval, military and other metallic. C. F. Gaunt. No. 1,353,228; Sept. 21; v. 278; p. 391.
Baffle-plate. E. T. Perry. No. 1,343,376; June 15; v. 275; p. 462.
Baffle-plate, Metallic. W. F. Sellers. No. 1,351,797; Sept. 7; v. 278; p. 16.
Bag: *See*—
Air-bag.
Ballast-bag.
Coal-bag.
Flash-light bag.
Fruit-picking bag.
Garment-bag.
Golf-bag.
Handbag.
Hat and bag.
Hot-water or ice bag.
Mail-bag.
Paper bag.
Shopping-bag.
Traveling-bag.
Valve-bag.
Vulcanizer air-bag.
Water-bag.
Bag. J. C. Bergen. No. 1,349,654; Aug. 17; v. 277; p. 422.
Bag. C. H. Howard. No. 1,363,196; Dec. 21; v. 281; p. 536.
Bag. J. Kleidman. No. 1,338,375; Apr. 27; v. 273; p. 710.
Bag. J. Stember. No. 1,360,044; Nov. 23; v. 280; p. 707.
Bag and twine holder. E. Lorange. No. 1,350,874; Aug. 24; v. 277; p. 704.
Bag-clasp, Detachable. W. H. Smith. No. 1,330,769; Feb. 10; v. 271; p. 298.
Bag-closure. P. E. Morrill. No. 1,361,605; Dec. 7; v. 281; p. 126.
Bag closure or mouth clamp. S. J. Dunstan. No. 1,356,133; Oct. 19; v. 279; p. 424.
Bag-conveyer. B. F. Brown. No. 1,350,777; Aug. 24; v. 277; p. 687.
Bag-fastener. F. A. Fuller. No. 1,361,378; Dec. 7; v. 281; p. 79.
Bag-fastener. T. McHaffie. No. 1,357,789; Nov. 2; v. 280; p. 112.
Bag-filling device. R. L. Callahan. No. 1,336,612; Apr. 13; v. 273; p. 231.
Bag-filling machine. C. F. Sparks. No. 1,348,592; Aug. 3; v. 277; p. 90.
Bag-frame and hinge connection therefor. B. vom Eigen. No. 1,339,799; May 11; v. 274; p. 291.
Bag-frames, Making. F. A. Fuller. No. 1,334,746; Mar. 23; v. 272; p. 644.
Bag-handle. J. J. Goldbaum. No. 1,357,554; Nov. 2; v. 280; p. 66.
Bag-holder. A. Edstrom. No. 1,350,443; Aug. 24; v. 277; p. 622.
Bag-holder. E. Erickson. No. 1,353,330; Sept. 21; v. 278; p. 410.
Bag-holder. H. W. Harris, Jr. No. 1,356,142; Oct. 19; v. 279; p. 426.
Bag-holder. J. L. and G. E. Herrman. No. 1,340,714; May 18; v. 274; p. 521.
Bag-holder. B. McBride. No. 1,336,530; Apr. 13; v. 273; p. 215.
Bag-holder. F. M. Neff and W. B. Runner. No. 1,342,348; June 1; v. 275; p. 143.
Bag-holder. W. G. Price. No. 1,363,012; Dec. 21; v. 281; p. 500.
Bag-holder. C. A. and G. E. Stuart, A. L. and C. P. Farr. No. 1,362,517; Dec. 14; v. 281; p. 352.
Bag holder and weigher. R. C. Flagg. No. 1,359,586; Nov. 23; v. 280; p. 616.
Bag holder, Grain-. W. Jahns. No. 1,337,134; Apr. 13; v. 273; p. 331.
Bag-machine. W. Rose. No. 1,354,339; Sept. 28; v. 278; p. 657.
Bag-lock. P. A. Michell. No. 1,331,778; Feb. 24; v. 271; p. 576.
Bag-making machine. L. H. and C. H. Hartman. No. 1,355,966; Oct. 19; v. 279; p. 391.
Bag or suitcase. J. M. Katz. No. 1,339,653; May 11; v. 274; p. 263.
Bag-packaging press. T. M. Avery. No. 1,359,811; Nov. 16; v. 280; p. 516.
Bag supporting and clamping mechanism. J. E. Schmandt. No. 1,346,260; July 13; v. 276; p. 246.
Bag-ties, Device for twisting. B. E. Page and C. C. Henderson. No. 1,354,836; Oct. 5; v. 279; p. 78.
Bag-turning machine. F. J. Wagner. No. 1,331,546; Feb. 24; v. 271; p. 532.
Bags, cases, and the like. Body structure for traveling. J. Heinel. No. 1,346,495; July 13; v. 276; p. 292.
Bags, Making and filling. A. M. Bates. No. 1,353,210; Sept. 21; v. 278; p. 387.
Bags, purses, and the like, Fasteners for. H. Edmonds. No. 1,347,364; July 20; v. 276; p. 523.
Bags, purses, &c., Locking device for frames of. M. T. Goldsmith. No. 1,335,575; Mar. 30; v. 272; p. 859.
Bags, Wire-tying. A. M. Bates. No. 1,348,346; Aug. 3; v. 277; p. 43.
Bagging-machine. L. C. Lorenson. No. 1,345,866; July 6; v. 276; p. 105.
Bagasse, Apparatus for macerating. N. Deerr. No. 1,346,594; July 13; v. 276; p. 311.
Baggage-rack, Folding. C. Godsey. No. 1,333,206; Mar. 9; v. 272; p. 247.
Bail. E. G. Carr. No. 1,347,891; July 27; v. 276; p. 684.
Bail, Container-body. J. H. Doyle and W. J. Kenny. No. 1,351,896; Sept. 7; v. 278; p. 37.
Bail-end-forming machine. W. J. Kenny. No. 1,343,267; June 15; v. 275; p. 441.
Bail, Lantern-. J. H. Molthan. No. 1,333,764; Mar. 16; v. 272; p. 413.
Bail, Lantern-. G. H. Rolfes. No. 1,327,293; Jan. 6; v. 270; p. 77.
Bail-support. C. T. Carland. No. 1,351,201; Aug. 31; v. 277; p. 831.
Bails to container-bodies, Device for attaching. W. J. Kenny. No. 1,343,920; June 22; v. 275; p. 635.
Bailer-bottoms, Blank and manufacture of. J. W. Sloan. No. 1,339,722; May 11; v. 274; p. 277.
Bait and tackle box. W. S. Cole. No. 1,332,202; Mar. 2; v. 272; p. 5.
Bait, Artificial. S. E. Doane. No. 1,362,562; Dec. 14; v. 281; p. 361.
Bait, Artificial. G. Halder. No. 1,345,173; June 29; v. 275; p. 943.
Bait, Artificial. F. C. Keeling. No. 1,345,600; July 6; v. 276; p. 54.
Bait, Artificial. C. R. Mansfield. No. 1,351,669; Aug. 31; v. 277; p. 924.
Bait, Artificial. H. L. Medley. No. 1,341,618; May 25; v. 274; p. 765.
Bait, Artificial. R. R. Odell. No. 1,338,953; May 4; v. 274; p. 56.
Bait, Artificial. J. K. Rush. No. 1,332,306; Mar. 2; v. 272; p. 25.
Bait, Artificial. P. Viehweger. No. 1,348,670; Aug. 3; v. 277; p. 105.
Bait, Artificial fish-. C. C. Bullock. No. 1,354,952; Oct. 5; v. 279; p. 100.
Bait, Artificial fish-. F. Dubrow. No. 1,334,022; Mar. 16; v. 272; p. 462.
Bait, Artificial fish-. S. C. Duhamel. No. 1,332,112; Dec. 24; v. 271; p. 639.
Bait, Artificial fish-. C. W. Lane. No. 1,334,249; Mar. 16; v. 272; p. 503.
Bait, Artificial fish-. E. M. Smith. No. 1,355,858; Oct. 19; v. 279; p. 370.
Bait-box. P. Kanthack. No. 1,354,660; Oct. 5; v. 279; p. 43.
Bait, Fish-. G. E. Pickup. No. 1,346,674; July 13; v. 276; p. 327.
Bait, Fishing-. F. Ackerman. No. 1,362,586; Dec. 21; v. 281; p. 417.
Bait or lure, Fish. S. J. Brown. No. 1,331,618; Feb. 24; v. 271; p. 546.
Bait, Preserving. W. E. Picht. No. 1,358,985; Nov. 16; v. 280; p. 455.
Bake-pan. J. J. O'Donnell. No. 1,345,625; July 6; v. 276; p. 58.
Bake-pan, Composite. W. M. Aikman. No. 1,343,991; June 22; v. 275; p. 648.
Baked goods, Manufacture of. A. F. Hartzell. No. 1,350,278; Aug. 17; v. 277; p. 543.
Baker's implement. J. Mosevsky. No. 1,362,174; Dec. 14; v. 281; p. 285.
Baking apparatus. G. W. Bollinger. No. 1,346,076; July 6; v. 276; p. 148.

Digitized by Google

Baking bread, Apparatus for. F. C. Haller. No. 1,363,781; Dec. 28; v. 281; p. 689.
Baking device. J. A. Cressey. No. 1,335,484; Mar. 30; v. 272; p. 843.
Baking-hearth equipment, Portable-. A. P. Pfeil and F. H. Baum. No. 1,362,178; Dec. 14; v. 281; p. 286.
Baking machine, Cake-. G. Maeda. No. 1,356,870; Oct. 26; v. 279; p. 615.
Baking machine, Doughnut-. W. Wallace. No. 1,356,578; Oct. 26; v. 279; p. 557.
Baking-pan. L. Lewitsky. No. 1,340,659; May 18; v. 274; p. 511.
Baking-pan. H. C. Wierth. No. 1,338,344; Apr. 27; v. 273; p. 705.
Balance. W. F. Bachman. No. 1,354,275; Sept. 28; v. 278; p. 644.
Balance-brake, Automatic. A. McCann. No. 1,330,641; Feb. 10; v. 271; p. 278.
Balance-pivot straightener. H. Haefliger. No. 1,347,155; July 20; v. 276; p. 481.
Balance-wheel, Compensating. I. Povelsen. No. 1,350,035; Aug. 17; v. 277; p. 496.
Balances, Multiple-weight attachment for precision-. W. Heusser. No. 1,345,180; June 29; v. 275; p. 944.
Balanced top-frame. E. L. Kuns. No. 1,334,383; Mar. 23; v. 272; p. 575.
Balancing device. J. Wilson. No. 1,344,193; June 22; v. 275; p. 687.
Balcony, Window-. F. P. Wilbur. No. 1,332,452; Mar. 2; v. 272; p. 58.
Bale-band-connecting means. E. V. Benjamin. No. 1,351,991; Sept. 7; v. 278; p. 55.
Bale-tie. A. J. Ersted. No. 1,350,860; Aug. 24; v. 277; p. 702.
Bale-tie. A. H. Sinel. No. 1,353,859; Sept. 28; v. 278; p. 560.
Bale-ties, Means of applying. W. G. Turner. No. 1,332,644; Mar. 2; v. 272; p. 90.
Bale-ties while being coupled, Device for holding. W. G. Turner. No. 1,332,646; Mar. 2; v. 272; p. 90.
Bale-ties while being coupled, Device for holding. W. G. Turner. No. 1,332,648; Mar. 2; v. 272; p. 91.
Bale-ties, Means for securing. W. G. Turner. No. 1,332,649; Mar. 2; v. 272; p. 91.
Baler. W. A. Webster. No. 1,351,452; Aug. 31; v. 277; p. 881.
Baler, Shingle-. J. L. Johnson. No. 1,334,904; Mar. 23; v. 272; p. 675.
Baling. E. H. Angier. No. 1,344,785; June 29; v. 275; p. 869.
Baling and transporting device. L. D. Lewis. No. 1,333,179; Mar. 9; v. 272; p. 242.
Baling fibrous materials. W. B. Henry. No. 1,327,471; Jan. 6; v. 270; p. 109.
Baling-machines, Length-indicator for. R. M. Mowry. No. 1,342,391; June 1; v. 275; p. 151.
Baling-press. O. L. Bowers. No. 1,361,815; Dec. 14; v. 281; p. 214.
Baling-press. J. R. Evans and F. H. G. Brandt. No. 1,333,067; Mar. 9; v. 272; p. 221.
Baling-press. J. R. Evans and F. H. G. Brandt. No. 1,333,068; Mar. 9; v. 272; p. 222.
Baling-press. S. F. Weitman. No. 1,351,360; Aug. 31; v. 277; p. 864.
Baling-press, Power. C. M. Ertel. No. 1,330,584; Feb. 10; v. 271; p. 262.
Baling-presses, Binding attachment for. W. H. Leavitt. No. 1,348,180; Aug. 3; v. 277; p. 9.
Baling-presses, Block or follower for. I. N. Becker. No. 1,352,345; Sept. 7; v. 278; p. 121.
Baling-presses, Feeding apparatus for. T. R. Cameron. No. 1,352,785; Sept. 14; v. 278; p. 244.
Baling-presses, Safety device for. C. R. Littig. No. 1,353,252; Sept. 21; v. 278; p. 395.
Ball: *See*—
Darning-ball.
Fuller ball.
Golf-ball.
Rubber ball.
Tongue-ball.
Toy ball.
Twine-ball.
Ball and making same. C. C. Wais. No. 1,339,992; May 11; v. 274; p. 327.
Ball-and-socket joint. A. M. Kuhn. No. 1,337,235; Apr. 20; v. 273; p. 425.
Ball-and-socket joint. J. W. Lakin. No. 1,349,002; Aug. 10; v. 277; p. 220.
Ball-bearing. C. H. Andrus. No. 1,363,705; Dec. 28; v. 281; p. 674.
Ball-bearing spindle. F. H. Chapman. No. 1,338,904; May 4; v. 274; p. 47.
Ball-bearing spring. G. A. Saville, Jr. No. 1,338,587; Apr. 27; v. 273; p. 740.
Ball-crank connection. W. S. Smith. No. 1,328,600; Jan. 20; v. 270; p. 421.
Ball-gaging machine. E. E. Neal. No. 1,335,522; Mar. 30; v. 272; p. 849.
Ball-joint, Water and pressure tight. F. Gall and G. Stolle. No. 1,349,060; Aug. 10; v. 277; p. 232.
Ball-lapping machine. J. J. McIntyre and C. Koehler. No. 1,330,083; Feb. 10; v. 271; p. 170.
Ball-lapping machine. R. W. Sellew. No. 1,343,011; June 8; v. 275; p. 328.
Ball-mill. F. E. Canda. No. 1,337,641; Apr. 20; v. 273; p. 501.
Ball mill. F. E. Marcy. No. 1,362,334; Dec. 14; v. 281; p. 317.
Ball-mill. E. H. Schmidt. No. 1,351,793; Sept. 7; v. 278; p. 15.
Ball-mill. H. Sellman. No. 1,363,620; Dec. 28; v. 281; p. 658.
Ball-mill, Inclosed-screen. J. R. Ball. No. 1,337,033; Apr. 13; v. 273; p. 313.
Ball-rack. T. R. Hayes and L. E. Kitson. No. 1,345,769; July 6; v. 276; p. 87.
Ball-retainer. G. D. Bailey. No. 1,332,282; Mar. 2; v. 272; p. 20.
Ball-throwing and exercising device. C. H. Reynolds. No. 1,345,241; June 29; v. 275; p. 955.
Balls, Making. F. T. Roberts. No. 1,329,311; Jan. 27; v. 270; p. 583.
Balls, Method of and means for heating. A. G. E. Hultgren. No. 1,342,171; June 1; v. 275; p. 110.
Ballast-bag, Scenery. C. A. Salisbury. No. 1,335,607; Mar. 30; v. 272; p. 865.
Ballast-shifting device, Automatic. H. A. Selah. No. 1,339,628; May 11; v. 274; p. 259.
Ballast-surfacer. P. Ursino. No. 1,343,533; June 15; v. 275; p. 493.
Ballast treating. M. Sims. No. 1,329,554; Feb. 3; v. 271; p. 40.
Ballonnet-gage. S. Truscott. No. 1,345,417; July 6; v. 276; p. 18.
Balloon and parachute. J. R. Gammeter. No. 1,359,689; Nov. 23; v. 280; p. 636.
Balloon construction. F. de Marinis. No. 1,329,584; Feb. 3; v. 271; p. 45.
Balloon, Dirigible. R. H. Upson. No. 1,336,601; Apr. 13; v. 273; p. 229.
Balloon, &c., inflating means. H. A. Dodge and W. J. Leatherow. No. 1,329,512; Feb. 3; v. 271; p. 32.
Balloon, Kite-. R. H. Upson. No. 1,341,248; May 25; v. 274; p. 694.
Balloon, Multiple propelled. G. Appinel. No. 1,337,032; Apr. 13; v. 273; p. 312.
Ballot. J. S. Baker. No. 1,350,914; Aug. 24; v. 277; p. 712.
Ballot-marking mechanism. G. Bumgardner. No. 1,361,226; Dec. 7; v. 281; p. 48.
Balsa and like woods and fastening device therefor, Beam of. G. H. Jones. No. 1,358,080; Nov. 9; v. 280; p. 230.
Bamboo and kindred material for pulp extraction, Apparatus for preparing. J. L. Jardine. No. 1,329,973; Feb. 3; v. 271; p. 117.
Banana heater and ripener. A. L. Frankeberger. (Reissue.) No. 14,948; Sept. 14; v. 278; p. 312.
Banana weigher and banger. F. Gillarde. No. 1,338,220; Apr. 27; v. 273; p. 681.
Band, Baby-. C. G. Fields. No. 1,359,346; Nov. 16; v. 280; p. 524.
Band-box. S. Krason. No. 1,333,177; Mar. 9; v. 272; p. 242.
Band, Brake-. J. P. Bond. No. 1,350,985; Aug. 24; v. 277; p. 726.
Band-cutter and feeder. B. and A. Dion. No. 1,345,588; July 6; v. 276; p. 51.
Band-cutter and feeder. C. H. Hill. No. 1,350,802; Aug. 24; v. 277; p. 692.
Band forming and applying machine. H. A. Beyer and C. A. Kohrer. No. 1,333,377; Mar. 9; v. 272; p. 279.
Band-making machine. L. A. Subers. No. 1,332,527; Mar. 2; v. 272; p. 68.
Band-stretcher. V. Ragona. No. 1,343,336; June 15; v. 275; p. 454.
Bands, Forming continuous. O. H. Baker. No. 1,332,592; Mar. 2; v. 272; p. 80.
Banding-machine. R. Baddatz. No. 1,333,340; Mar. 9; v. 272; p. 272.
Bandage. M. W. Adams. No. 1,363,075; Dec. 21; v. 281; p. 512.
Bandage, Catamenial. F. G. Higgins. No. 1,342,588; June 8; v. 275; p. 244.
Bandage, Catamenial. A. T. Van Alstyn. (Reissue.) No. 14,830; Mar. 30; v. 272; p. 888.
Bandage for ladies' use, Sanitary. E. Andreae. No. 1,331,042; Feb. 17; v. 271; p. 419.
Bandage, Hot-water and ice. W. F. Augustine. No. 1,345,906; July 6; v. 276; p. 114.
Bandage, Padding-. D. F. Fowler. No. 1,332,550; Mar. 2; v. 272; p. 72.
Bandage-rolling machine. T. A. Blair. No. 1,359,021; Nov. 16; v. 280; p. 461.
Banjo. N. Brown. No. 1,352,654; Sept. 14; v. 278; p. 218.
Banjo. R. T. Carlucci. No. 1,339,318; May 4; v. 274; p. 123.
Banjo. S. F. Cetta. No. 1,337,041; Apr. 13; v. 273; p. 314.
Banjo. W. L. Lange. No. 1,348,652; Aug. 3; v. 277; p. 101.
Banjo. L. Piazza. No. 1,334,631; Mar. 23; v. 272; p. 622.
Banjo. G. F. Puntolillo. No. 1,345,104; June 29; v. 275; p. 929.
Banjo. C. B. Rauch. No. 1,354,685; Oct. 5; v. 279; p. 48.
Banjo. C. D. Russo. No. 1,341,199; May 25; v. 274; p. 685.
Banjo. G. Sandstrom. No. 1,354,268; Sept. 28; v. 278; p. 643.

Digitized by Google

Banjo. E. A. Stathopoulo. No. 1,347,597; July 27; v. 276; p. 625.
Banjo attachment. H. R. Wilmot. No. 1,355,723; Oct. 12; v. 279; p. 303.
Banjo-heads, Coöperating means for. L. L. Kenyon. No. 1,349,067; Aug. 10; v. 277; p. 234.
Banjo-support. H. M. Cox. No. 1,342,202; June 1; v. 275; p. 116.
Banjo-tailpiece. A. D. Grover. No. 1,350,310; Aug. 24; v. 277; p. 595.
Banjos, Attachment for. A. D. Grover. No. 1,332,552; Mar. 2; v. 272; p. 73.
Banjos, Head-tightening device for. A. D. Grover. No. 1,338,076; Apr. 27; v. 273; p. 654.
Bank and vault protector, Chemical. R. C. Roeschel. No. 1,355,063; Oct. 5; v. 279; p. 122.
Bank, Book-form. B. F. Greer. No. 1,357,774; Nov. 2; v. 280; p. 109.
Bank, Contact-terminal. A. H. Adams. No. 1,334,276; Mar. 23; v. 272; p. 555.
Bank-drafts and other documents, Perforating-machines for. G. A. Crocco. No. 1,347,445; July 20; v. 276; p. 539.
Bank-protector. L. Hill. No. 1,358,638; Nov. 9; v. 280; p. 341.
Bank, Savings-. Z. M. Speer. No. 1,356,750; Oct. 26; v. 279; p. 592.
Banks, Amount-certification rubber check-stamp for. J. Derscha. No. 1,347,259; July 20; v. 276; p. 502.
Bar: *See*—
Aeroplane rudder-bar.
Boring-bar.
Furnace-bar.
Furnace floor-bar.
Collar-bar.
Concrete bar.
Core-bar.
Cutter-bar.
Draft-bar.
Draw-bar.
Faller-bar.
Flask-bar.
Furnace grate-bar.
Grate-bar.
Handle-bar.
Jack-bar.
Pinch-bar.
Pressure-bar.
Rail-joint bar.
Rail-joint splice-bar.
Sash-bar.
Sickle-bar.
Splice-bar.
Structural bar.
Support-bar.
Tractor draw-bar.
Truss-spring bumper-bar.
Type-bar.
Violin bass-bar.
Bar-pin. H. Wachenheimer. No. 1,356,027; Oct. 19; v. 279; p. 403.
Bar support and spacer. H. H. Lampert. No. 1,361,162; Dec. 7; v. 281; p. 36.
Bar-testing machine, Notched-. J. C. W. Humfrey. No. 1,356,821; Oct. 26; v. 279; p. 606.
Bars, Making curved flanged. R. S. Smith. No. 1,343,647; June 15; v. 275; p. 515.
Bars, Making curved flanged. R. S. Smith. No. 1,356,567; Oct. 26; v. 279; p. 556.
Bars, Making glazing-. J. T. Hutchinson, V. Shaw, and F. Barnes. No. 1,341,271; May 25; v. 274; p. 698.
Barber-chair. G. Ewing. No. 1,338,616; Apr. 27; v. 273; p. 754.
Barber-chair. G. C. Larala. No. 1,334,157; Mar. 16; v. 272; p. 487.
Barber's chair. J. R. Emmert. No. 1,347,264; July 20; v. 276; p. 503.
Barber's chair for children. D. Oppenheim. No. 1,341,192; May 25; v. 274; p. 684.
Barber's comb. H. L. Dodge. No. 1,359,343; Nov. 16; v. 280; p. 523.
Barber's seat. E. A. Griffis. No. 1,361,323; Dec. 7; v. 281; p. 68.
Barge. J. Thies. No. 1,353,190; Sept. 21; v. 278; p. 384.
Barge, Coaling-. F. A. Sweet and G. G. Jamieson. No. 1,344,459; June 22; v. 275; p. 740.
Barge for headers. E. C. Reinders. No. 1,363,617; Dec. 28; v. 281; p. 657.
Barge, Live-fish-transporting. L. H. Wakefield. No. 1,332,653; Mar. 2; v. 272; p. 92.
Barge, Metal. J. L. Taylor. No 1,338,712; May 4; v. 274; p. 12.
Barges, Steering apparatus for freight-carrying. E. W. B. Nowland. No. 1,356,218; Oct. 19; v. 279; p. 442
Bark. Defiberizing redwood-. U. S. McMillan. No. 1,344,180; June 22; v. 275; p. 685.
Bark-peeling machine. W. S. Shaw. No. 1,358,993; Nov. 16; v. 280; p. 456.
Barking-machine. I. Ročić. No. 1,333,734; Mar. 16; v. 272; p. 408.
Barn. A. F. McGirr. No. 1,336,471; Apr. 13; v. 273; p. 204.
Barometer, Mercurial. A. M. Krause. No. 1,353,482; Sept. 21; v. 278; p. 440.
Barotype-machine. H. E. Brown. No. 1,345,660; July 6; v. 276; p. 65.
Barrel. W. Conry. No. 1,356,041; Oct. 19; v. 279; p. 405.
Barrel. G. E. Herrmann and B. W. Tucker. No. 1,358,203; Nov. 9; v. 280; p. 254.
Barrel. G. A. Le Fevre. No. 1,361,880; Dec. 14; v. 281; p. 227.
Barrel. T. J. Moody. No. 1,363,145; Dec. 21; v. 281; p 526.
Barrel. W. W. Wood. No. 1,336,011; Apr. 6; v. 273; p. 58.
Barrel-agitator. C. E. Farrington. No. 1,336,830; Apr. 13; v. 273; p. 273.
Barrel-agitator. P. J. Riley. No. 1,335,258; Mar. 30; v. 272; p. 800.
Barrel-bung. E. H. Shelley. No. 1,331,083; Feb. 17; v. 271; p. 426.
Barrel-cleat. J. P. Nicolle. No. 1,338,522; Apr. 27; v. 273; p. 738.
Barrel-cleat. N. A. Ormes. No. 1,340,075; May 11; v. 274; p. 342.
Barrel-closure. G. H. Culverwell and G. S. Cox. No. 1,359,874; Nov. 23; v. 280; p. 673.
Barrel, Collapsible. C. W. Bovee. No. 1,341,493; May 25; v. 274; p. 742.
Barrel, Collapsible. Q. G. Church. No. 1,332,245; Mar. 2; v. 272; p. 13.
Barrel, Collapsible. S. A. and M. A. Knapp. No. 1,336,358; Apr 6; v. 273; p. 123.
Barrel, Collapsible. S. R. Port. No. 1,328,587; Jan. 20; v. 270; p. 419.
Barrel corrugating and edging machine, Combined metal-. V. C. Norquist. No. 1,355,351; Oct. 12; v. 279; p. 232.
Barrel-cover. E. H. Angier. No. 1,337,188; Apr. 20; v. 273; p. 416.
Barrel-emptying machine. M. C. Reynolds. No. 1,357,003; Oct. 26; v. 279; p. 641.
Barrel, Foundry-. W. G. Avery. No. 1,356,422; Oct. 19; v. 279; p. 481.
Barrel-handling device. W. A. Robinson. No. 1,335,796; Apr. 6; v. 273; p. 18.
Barrel-head machine. T. F. Ward. No. 1,351,934; Sept. 7; v. 278; p. 44.
Barrel-head, Removable. J. C. Streibich. No. 1,344,098; June 22; v. 275; p. 669.
Barrel-hook. B. J. Waterbury. No. 1,334,510; Mar. 23; v. 272; p. 599.
Barrel-hoop. J. Prendergast. No. 1,360,792; Nov. 30; v. 280; p. 922.
Barrel or receptacle, Metal. H. Ellis. No. 1,341,304; May 25; v. 274; p. 705.
Barrel-packing machine. C. McCorkell. No. 1,359,082; Nov. 16; v. 280; p. 473.
Barrel-tap. H. O Finley. No. 1,338,007; Apr. 27; v. 273; p. 641.
Barrel-tapping device. C. D. Thorpe. No. 1,334,819; Mar. 23; v. 272; p. 658.
Barrel, wine, and lard press. G. L. Squire. No. 1,344,156; June 22; v. 275; p. 680.
Barrel, Working. S. H. Ostrander. No. 1,334,786; Mar. 23; v. 272; p. 652.
Barrels and other similar receptacles, Head for. L. H. Davey. No. 1,340,023; May 11; v. 274; p. 333.
Barrels, Apparatus for loading. W. E. Johnson. No. 1,362,488; Dec. 14; v. 281; p. 346.
Barrels, Bung for metal. M. T. Bentley. No. 1,355,936; Oct. 19; v. 279; p. 385.
Barrels, Bung for metal. A. Schroeder. No. 1,344,457; June 22; v. 275; p. 740.
Barrels, Head equipment for. H. U. Ruedy. No. 1,358,183; Sept. 21; v. 278; p. 882.
Barrels, Instrument for securing concave metal stoppers in. J. Galleazzi. No. 1,338,619; Apr. 27; v. 273; p. 755.
Barrels, Machine for emptying. C. C. Mosher. No. 1,347,640; July 27; v. 276; p. 635.
Barrels, Manufacturing paper. R. S. Bolger. No. 1,340,110; May 11; v. 274; p. 350.
Barrette attachment. R. W. Thayer. No. 1,343,239; June 15; v. 275; p. 436.
Base, Monument-. J. R. James. No. 1,363,511; Dec. 28; v. 281; p. 637.
Base-plate. C. J. Williams, Jr. No. 1,333,523; Mar. 9; v. 272; p. 307.
Baseball-curver. H. B. Ricketson. No. 1,332,303; Mar. 2; v. 272; p. 25.
Baseball-game apparatus. J. D. Bourne. No. 1,341,628; June 1; v. 275; p. 8.
Baseball-game apparatus. W. H. Reeves. No. 1,361,616; Dec. 7; v. 281; p. 128.
Basements, Means to prevent flooding. F. Hinton. No. 1,329,405; Feb. 3; v. 271; p. 11.
Basin, Collapsible. E. Quick. No. 1,334,260; Mar. 16; v. 272; p. 505.
Basin-plug wrench. M. Mallove. No. 1,342,025; June 1; v. 275; p. 81.
Basins, Waste-outlet cover for. A. Sundh. No. 1,362,366; Dec. 14; v. 281; p. 323.
Basket. W. R. Loewenberg. No. 1,354,115; Sept. 28; v. 278; p. 612.
Basket. G. L. O'Dell. No. 1,349,431; Aug. 10; v. 277; p. 306.
Basket. H. B. White. No. 1,351,195; Aug. 31; v. 277; p. 830.
Basket and handle therefor, Foldable. T. M. House. No. 1,354,253; Sept. 28; v. 278; p. 640.
Basket, Baby-carrying. J. A. Mahr. No. 1,363,667; Dec. 28; v. 281; p. 667.
Basket, Display-. T. H. Peppers. No. 1,329,207; Jan. 27; v. 270; p. 564.
Basket-fastener. J. F. Kennedy; No. 1,351,334; Aug. 31; v. 277; p. 858.
Basket, Hanging flower-. C. M. Squires. No. 1,357,738; Nov. 2; v. 280; p. 102.

Digitized by Google

Basket-nailing machine. O. H. Kilmer and P. Madison. No. 1,349,985; Aug. 17; v. 277; p. 482.
Basket, Sump-. E. Spiller. No. 1,335,080; Mar. 30; v. 272; p. 768.
Bass-drum-operating mechanism. J. D. Williams. No. 1,350,195; Aug. 17; v. 277; p. 527.
Bassinet and doll, Combined pasteboard. J. N. Johnson. No. 1,332,400; Mar. 2; v. 272; p. 44.
Batchometer. N. M. Rosendahl. No. 1,336,586; Apr. 13; v. 273; p. 226.
Bath: *See*—
Bird-bath.
Bath and developing-tray support and rocker, Fixing-. S. J. Tyler. No. 1,352,330; Sept. 7; v. 278; p. 118.
Bath and shampooing compound. F. P. Burr. No. 1,360,093; Nov. 23; v. 280; p. 717.
Bath apparatus, Shower-. W. C. Booth. No. 1,339,593; May 11; v. 274; p. 252.
Bath attachment, Shower-. S. Bagnulo. No. 1,343,892; June 22; v. 275; p. 629.
Bath, Cabinet shower-. E. T. Osborn. No. 1,329,994; Feb. 3; v. 271; p. 121.
Bath, Combined portable shower and vapor. G. G. Stimpson. No. 1,341,485; May 25; v. 274; p. 741.
Bath device. A. F. Heine. No. 1,358,733; Nov. 16; v. 280; p. 405.
Bath rubber. M. W. Schloss. No. 1,357,006; Oct. 26; v. 279; p. 642.
Bath-shower attachment. J. G. Perkins. No. 1,354,838; Oct. 5; v. 279; p. 78.
Bath-shower, Portable. K. K. Jensen. No. 1,336,034; Apr. 6; v. 273; p. 63.
Bath-strap. L. S. Shont. No. 1,334,716; Mar. 23; v. 272; p. 638.
Bath-water, Means for agitating. R. E. Kolshorn. No. 1,350,974; Aug. 24; v. 277; p. 724.
Bathing apparatus. S. D. Gromer. No. 1,359,985; Nov. 23; v. 280; p. 696.
Bathing-cap. G. K. Guinzburg. No. 1,363,408; Dec. 28; v. 281; p. 616.
Bathing-platform, Infant's. E. R. Smith. No. 1,327,295; Jan. 6; v. 270; p. 77.
Bathroom-fixture. A. P. Cody. No. 1,361,829; Dec. 14; v. 281; p. 217.
Bathtub. G. C. Strachan. No. 1,348,250; Aug. 3; v. 277; p. 24.
Bathtub and dresser for babies, Combined. E. L. Nickels. No. 1,338,034; Apr. 27; v. 273; p. 646.
Bathtub attachment. C. H. Waechter. No. 1,353,313; Sept. 21; v. 278; p. 407.
Bathtub, Foldable. C. W. Hagstrom. No. 1,327,866; Jan. 13; v. 270; p. 245.
Bathtub non-slip grip. A. West. No. 1,329,487; Feb. 3; v. 271; p. 27.
Bathtub-trap. J. H. Leonard. No. 1,360,651; Nov. 30; v. 280; p. 895.
Bathtub waste-fitting. J. W. Sharp, Jr. No. 1,330,909; Feb. 17; v. 271; p. 393.
Bathtubs, Lifting device for. R. F. Ringle. No. 1,360,147; Nov. 23; v. 280; p. 728.
Bathtubs, One-piece wrought-metal pipe connection for. E. W. Henger. No. 1,363,181; Dec. 21; v. 281; p. 533.
Batten-clamp, Adjustable. E. Gee and R. L. Burns. No. 1,347,023; July 20; v. 276; p. 456.
Batteries and making same, Depolarizing agent for dry. C. Ellis. No. 1,358,626; Nov. 9; v. 280; p. 339.
Batteries, Apparatus for facilitating the dismantling of secondary. R. F. Stein. No. 1,358,345. Nov. 9; v. 280; p. 282.
Batteries, Apparatus for making wood separators for storage. W. J. Rehrig. No. 1,324,925; June 8; v. 275; p. 310.
Batteries, Automatic water-feed for storage. J. D. Sartakoff. No. 1,349,297; Aug. 10; v. 277; p. 280.
Batteries, Charging system for storage. W. W. Sloane. No. 1,360,592; Nov. 30; v. 280; p. 883.
Batteries, Connecting device for storage. J. Bijur. No. 1,334,833; Mar. 23; v. 272; p. 661.
Batteries, Coupling-plate for storage. J. W. Fitzgerald. No. 1,359,585; Nov. 23; v. 280; p. 616.
Batteries, Cover for storage. W. Gardiner. No. 1,342,954; June 8; v. 275; p. 316.
Batteries, Dismantling secondary. R. F. Stein. No. 1,358,344; Nov. 9; v. 280; p. 282.
Batteries, Drain device for storage. P. D. Ivey and A. J. Salisbury. No. 1,330,634; Feb. 10; v. 271; p. 272.
Batteries, Electrolyte for primary. G. S. Engle. No. 1,356,436; Oct. 19; v. 279; p. 483.
Batteries, Electrolyte for electric storage-. E. Hacking. No. 1,362,295; Dec. 14; v. 281; p. 309.
Batteries, Grid-plate for storage. P. B. Rabe. No. 1,328,392; Jan. 20; v. 270; p. 382.
Batteries, Lifting-handle for storage. E. A. Hurd. No. 1,349,457; Aug. 10; v. 277; p. 310.
Batteries, Making primary. O. E. Ruhoff. No. 1,331,213; Feb. 17; v. 271; p. 450.
Batteries, Means for charging storage. C. E. Ogden. No. 1,344,812; June 29; v. 275; p. 874.
Batteries, Relief mechanism for storage. L. P. Ohliger, G. Willson, J. A. White, and A. R. Reid. No. 1,363,263; Dec. 28; v. 281; p. 589.
Batteries, Separator for storage. R. N. Chamberlain. No. 1,343,708; June 15; v. 275; p. 528.
Batteries, Separator for storage. O. C. Hirsch and A. R. Harnes. No. 1,358,207; Nov. 9; v. 280; p. 255.
Batteries, Separator for storage. H. T. Roberg. No. 1,358,576; Nov. 9; v. 280; p. 329.
Batteries, Shot-firing attachment for electric. E. B. Birch. No. 1,363,224; Dec. 28; v. 281; p. 582.
Batteries, Switchboard for charging storage. C. E. Ogden. No. 1,327,682; Jan. 13; v. 270; p. 211.
Batteries, System for charging storage. T. L. Mount. No. 1,348,236; Aug. 3; v. 277; p. 21.
Batteries, Terminal-seal for storage. M. Shank. No. 1,342,511; June 8; v. 275; p. 228.
Batteries, Terminal structure for electric. P. E. Norris. No. 1,352,619; Sept. 14; v. 278; p. 210.
Batteries with distilled water, Means for automatically supplying storage. E. Blau. No. 1,361,437; Dec. 7; v. 281; p. 93.
Battery: *See*—

Dry battery.	Multivolt battery.
Electric battery.	Primary battery.
Electric storage battery.	Secondary or storage battery.
Flash-light battery.	Storage battery.
Galvanic battery.	
Gas-battery.	

Battery. J. R. Fenwick. No. 1,357,858; Nov. 2; v. 280; p. 126.
Battery. M. E. Pipkin. No. 1,363,671; Dec. 28; v. 281; p. 667.
Battery. A. H. Snyder. No. 1,363,683; Dec. 28; v. 281; p. 670.
Battery and duplex element therefor. C. Ellis. No. 1,331,456; Feb. 17; v. 271; p. 495.
Battery and operation, Electric. O. E. Ruhoff. No. 1,358,334; Nov. 9; v. 280; p. 280.
Battery and operation, Electric. J. W. Weiss. No. 1,358,350; Nov. 9; v. 280; p. 283.
Battery and preparing same, Storage. W. E. Holland and L. J. Pearson. No. 1,329,181; Jan. 27; v. 270; p. 560.
Battery-anodes, Making. H. F. French. No. 1,359,244; Nov. 16; v. 280; p. 503.
Battery-box. T. L. Moorman. No. 1,338,690; May 4; v. 274; p. 8.
Battery-box. F. P. Stephens and E. E. Johnson, Jr. No. 1,359,446; Nov. 16; v. 280; p. 544.
Battery-box-forming machine. S. E. Hall. No. 1,353,339; Sept. 21; v. 278; p. 412.
Battery-box handle. J. A. Kimball. No. 1,355,050; Oct. 5; v. 279; p. 119.
Battery-carbons, Terminal post for. E. W. Henger. No. 1,345,853; July 6; v. 276; p. 103.
Battery-card holder. L. H. Wallace. No. 1,363,545; Dec. 28; v. 281; p. 679.
Battery case, Storage-. A. Howard. No. 1,354,302; Sept. 28; v. 278; p. 650.
Battery-cell. P. D. Ivey and A. J. Salisbury. No. 1,354,256; Sept. 28; v. 278; p. 641.
Battery-cell and vent means therefor. C. C. Carpenter and R. J. Ellis. No. 1,336,506; Apr. 13; v. 273; p. 211.
Battery-cell hydrometer. P. D. Ivey and A. J. Salisbury. No. 1,354,255; Sept. 28; v. 278; p. 641.
Battery cell, Storage-. J. C. Eichhorn. No. 1,339,442; May 11; v. 274; p. 223.
Battery-cells, Testing apparatus for. W. A. Case. No. 1,358,827; Nov. 16; v. 280; p. 424.
Battery-charging system, Automatic. F. E. Case. No. 1,347,323; July 20; v. 276; p. 515.
Battery-charging system, Storage-. E. F. Andrews. No. 1,356,753; Oct. 26; v. 279; p. 592.
Battery-charging systems, Relay for storage-. J. M. Wilson. No. 1,344,970; June 29; v. 275; p. 903.
Battery connectors and posts, Method of and means for sealing storage-. F. W. Barhoff. No. 1,328,357; Jan. 20; v. 270; p. 375.
Battery construction, Storage-. W. Gardiner. No. 1,342,952; June 8; v. 275; p. 316.
Battery container, Storage-. J. M. Ahlgren. No. 1,341,871; June 1; v. 275; p. 51.
Battery-cover. J. W. Fitzgerald. No. 1,357,283; Nov. 2; v. 280; p. 16.
Battery covers in cells, Means for sealing storage-. F. W. Barhoff. No. 1,328,358; Jan. 20; v. 270; p. 375.
Battery covers, Method of and means for sealing terminal posts in storage-. F. W. Barhoff. No. 1,328,359; Jan. 20; v. 270; p. 375.
Battery electrode or plate, Storage-. C. Ambruster. No. 1,354,086; Sept. 28; v. 278; p. 606.
Battery element. C. F. Haunz. No. 1,363,729; Dec. 28; v. 281; p. 679.
Battery element, Double-copper-oxid. G. S. Engle. No. 1,356,485; Oct. 19; v. 279; p. 483.
Battery element, Storage-. E. Handler. No. 1,327,234; Jan. 6; v. 270; p. 67.
Battery-filling machine. L. A. Freedman. No. 1,346,948; July 20; v. 276; p. 441.
Battery-grid. F. R. Bickhart. No. 1,343,957; June 22; v. 275; p. 642.
Battery-grid. P. B. Rabe. No. 1,347,873; July 27; v. 276; p. 681.

Digitized by Google

Battery grid and making same, Storage-. L. J. Pearson and W. E. Holland. No. 1,334,875; Mar. 28; v. 272; p. 669.
Battery grids, Machine for casting strips to storage-. E. Disinger. No. 1,344,294; June 22; v. 275; p. 707.
Battery grids, Method and machine for making storage-. L. J. Pearson, and W. E. Holland. No. 1,329,999; Feb. 3; v. 271; p. 122.
Battery-indicator. W. C. Carlon. No. 1,338,170; Apr. 27; v. 273; p. 671.
Battery-jar. J. C. Peabody. No. 1,344,771; June 29; v. 275; p. 866.
Battery jar and cover. C. C. Carpenter and R. J. Ellis. No. 1,336,507; Apr. 13; v. 273; p. 211.
Battery-jar and making same, Hard-rubber. H. Weida. No. 1,343,380; June 15; v. 275; p. 463.
Battery-jar-forming machine. J. H. Wagenhorst. No. 1,338,470; Apr. 27; v. 273; p. 728.
Battery-jar-lifting device, Glass-. F. R. Allison. No. 1,359,649; Nov. 23; v. 280; p. 628.
Battery jars, Apparatus for forming storage-. T. A. Willard. No. 1,352,160; Sept. 7; v. 278; p. 86.
Battery jars, Forming hard-rubber storage-. T. A. Willard. No. 1,352,161; Sept. 7; v. 278; p. 86.
Battery-jars, Machine for forming. J. H. Ten Brink and A. V. Martin. No. 1,363,695; Dec. 28; v. 281; p. 672.
Battery jars, Making rubber storage-. H. L. Boyer. No. 1,352,170; Sept. 7; v. 278; p. 88.
Battery jars, Making storage-. H. L. Boyer. No. 1,352,418; Sept. 7; v. 278; p. 134.
Battery-jars, Mold and process for. H. Weida. No. 1,358,903; Nov. 16; v. 280; p. 440.
Battery-light attachment. A. D. Saborsky. No. 1,363,924; Dec. 28; v. 281; p. 717.
Battery materials, Purification of. O. E. Ruhoff. No. 1,343,585; June 15; v. 275; p. 503.
Battery or cell, Primary or voltaic. J. P. Constable, C. G. Michalis, and E. McGall. No. 1,334,946; Mar. 30; v. 272; p. 741.
Battery-plate. A. J. Adams. No. 1,348,467; Aug. 3; v. 277; p. 66.
Battery-plate. O. P. Hoffman. No. 1,341,718; June 1; v. 275; p. 19.
Battery-plate and terminal connection. A. F. Hawkins. No. 1,339,061; May 4; v. 274; p. 77.
Battery-plate support. E. M. Duffey. No. 1,353,154; Sept. 21; v. 278; p. 376.
Battery-plates, Active material for. W. Gardiner and W. H. Duggan. No. 1,342,953; June 8; v. 275; p. 316.
Battery plates, Separator for storage-. J. O. Luthy. No. 1,339,853; May 11; v. 274; p. 301.
Battery-plates, Terminal means for. C. C. Carpenter. No. 1,336,127; Apr. 6; v. 273; p. 80.
Battery-protecting device for charging and lighting systems. R. Varley. No. 1,361,651; Dec. 7; v. 281; p. 135.
Battery-refilling device, Automatic. L. Butler. No. 1,354,800; Oct. 5; v. 279; p. 71.
Battery separator and producing same, Storage-. H. L. Boyer. No. 1,357,378; Nov. 2; v. 280; p. 34.
Battery separator and producing same, Storage-. T. A. Willard. No. 1,342,611; June 8; v. 275; p. 247.
Battery separator, Secondary-. J. O. Luthy. No. 1,331,018; Feb. 17; v. 271; p. 415.
Battery separator, Storage-. D. A. Grieb. No. 1,362,289; Dec. 14; v. 281; p. 308.
Battery separator, Storage-. W. E. Holland and J. M. Skinner. No. 1,329,180; Jan. 27; v. 270; p. 559.
Battery-separators, Making. H. S. Stronach. No. 1,355,433; Oct. 12; v. 279; p. 247.
Battery separators, Making storage-. H. L. Boyer. No. 1,357,379; Nov. 2; v. 280; p. 34.
Battery-switch. C. A. Gillingham. No. 1,337,217; Apr. 20; v. 273; p. 421.
Battery-temperature controller. C. E. Linebarger. No. 1,363,889; Dec. 28; v. 281; p. 710.
Battery-terminal connector. C. J. Baker. No. 1,332,482; Mar. 2; v. 272; p. 59.
Battery-terminal fastening. A. F. Hawkins. No. 1,349,957; Aug. 17; v. 277; p. 480.
Battery-terminal fastening device. A. F. Hawkins. No. 1,355,396; Oct. 12; v. 279; p. 240.
Battery terminal, Storage-. C. W. Hazelett. No. 1,338,130; Apr. 27; v. 273; p. 664.
Battery-tester. G. H. Riebeth. No. 1,337,160; Apr. 13; v. 273; p. 336.
Bayonet and wire-cutter, Combination. J. Hmirak. No. 1,342,382; June 1; v. 275; p. 149.
Bayonet exercises, fighting, and drill. G. E. Mignon. No. 1,357,791; Nov. 2; v. 280; p. 113.
Bead-forming machine. T. W. Miller. No. 1,359,265; Nov. 16; v. 280; p. 507.
Bead, Inside corner-. P. F. Flagge. No. 1,361,843; Dec. 14; v. 281; p. 219.
Beads, Implement for threading embroidery-. R. O. Trueb. No. 1,335,805; Apr. 6; v. 273; p. 19.
Beaded fabric. C. A. Hanington. No. 1,329,900; Feb. 3; v. 271; p. 104.
Beading. E. W. Aufderheide. No. 1,353,885; Sept. 28; v. 278; p. 564.
Beading-machine. O. H. Jensen. No. 1,344,405; June 22; v. 275; p. 729.
Beam-clamp. G. H. Bruns. No. 1,327,981; Jan. 13; v. 270; p. 267.
Beams, Construction for. W. I. Tuttle. No. 1,335,407; Mar. 30; v. 272; p. 828.
Beaming mechanism. G. W. Kuenneth. No. 1,362,165; Dec. 14; v. 281; p. 283.
Bean-cleaning apparatus. L. C. Dibert. No. 1,356,049; Oct. 19; v. 279; p. 407.
Bean-harvesting machine. R. Sera. No. 1,339,674; May 11; v. 274; p. 268.
Bean or weed cutter. J. Aman. No. 1,337,499; Apr. 20; v. 273; p. 475.
Bean-snipping machine. D. Lash. No. 1,358,002; Nov. 9; v. 280; p. 214.
Bean-snipping machine. A. P. Wolfe. No. 1,359,559; Nov. 23; v. 280; p. 611.
Beans, Apparatus for snipping. E. J. Vaudreuil. No. 1,351,143; Aug. 31; v. 277; p. 819.
Beans, Apparatus for snipping string-. W. E. Urschel. No. 1,338,991; Apr. 13; v. 273; p. 304.
Beans for canning, Preparing green. E. J. Vaudreuil. No. 1,344,069; June 22; v. 275; p. 664.
Beans, Snipping. E. J. Vaudreuil. No. 1,351,088; Aug. 31; v. 277; p. 808.
Bearing: *See*—
Roller-bearing.
Bearing. E. G. Dann. No. 1,337,208; Apr. 20; v. 273; p. 419.
Bearing. L. Golly. No. 1,346,121; July 13; v. 276; p. 218.
Bearing. J. Harris. No. 1,332,465; Mar. 2; v. 272; p. 55.
Bearing. F. V. Johnson. No. 1,342,541; June 8; v. 275; p. 234.
Bearing. A. Kingsbury. No. 1,361,073; Dec. 7; v. 281; p. 18.
Bearing. C. Pack and H. H. Doehler. No. 1,333,336; Mar. 9; v. 272; p. 272.
Bearing. W. J. Palmer No 1,348,042; July 27; v. 276; p. 714.
Bearing. C. Ridsdale. No. 1,358,786; Nov. 16; v. 280; p. 416.
Bearing. J. F. Stachowski. No. 1,350,245; Aug. 17; v. 277; p. 536.
Bearing. J. B. Watson. No. 1,327,301; Jan. 6; v. 270; p. 79.
Bearing. J. C. Welch. No. 1,359,007; Nov. 16; v. 280; p. 459.
Bearing. J. G. Utz. No. 1,339,991; May 11; v. 274; p. 327.
Bearing. L. H. Vervoort. No. 1,344,524; June 22; v. 275; p. 753.
Bearing. G. H. Worrall. No. 1,339,084; May 4; v. 274; p. 81.
Bearing, Adjustable. D. Burden. No. 1,362,163; Dec. 14; v. 287; p. 283.
Bearing, Adjustable. J. V. Sanford. No. 1,356,561; Oct. 26; v. 279; p. 555.
Bearing and constructing same. J. J. Knight and M. Lee. No. 1,354,200; Sept. 28; v. 278; p. 629.
Bearing and making same. H. R. Straight. No. 1,360,244; Nov. 23; v. 280; p. 747.
Bearing and making same, Roller-. A. H. Jones. No. 1,343,885; June 15; v. 275; p. 563.
Bearing and mounting therefor. G. R. Bott. No. 1,337,881; Apr. 20; v. 273; p. 547.
Bearing and mounting therefor. G. R. Bott. No. 1,337,882; Apr. 20; v. 273; p. 548.
Bearing apparatus. G. W. Schlichten. No. 1,361,187; Dec. 7; v. 281; p. 41.
Bearing, Antifriction-. T. Jacobson. No. 1,343,321; June 15; v. 275; p. 457.
Bearing, Antifriction-. J. F. O'Connor. No. 1,357,797; Nov. 2; v. 280; p. 114.
Bearing, Antifriction-. J. F. O'Connor. No. 1,357,806. Nov. 2; v. 280; p. 115
Bearing, Antifriction-. J. F. O'Connor. No. 1,357,809; Nov. 2; v. 280; p. 116.
Bearing, Antifriction-. J. T. Rice. No. 1,338,868; May 4; v. 274; p. 40.
Bearing, Antifriction-. G. Wolff. No. 1,340,310; May 18; v. 274; p. 444.
Bearing, Antifriction roller and ball. A. B. Hubard. No. 1,351,754; Sept. 7; v. 278; p. 8.
Bearing, Automatically-adjustable. T. Christiani. No. 1,347,443; July 20; v. 276; p. 538.
Bearing, Axle-. K. H. Hansen. No. 1,328,512; Jan. 20; v. 270; p. 405.
Bearing, Ball-. A. H. A. Bokelund. No. 1,356,848; Oct. 26; v. 279; p. 611.
Bearing, Ball-. A. Golden. No. 1,356,444; Oct. 19; v. 279; p. 485.
Bearing, Ball-. T. Hegelman. No. 1,336,352; Apr. 6; v. 273; p. 122.
Bearing, Ball-. C. K. Hoerle. No. 1,359,506; Nov. 23; v. 280; p. 600.
Bearing, Ball-. K. W. Lindman. No. 1,332,444; Mar. 2; v. 272; p. 52.
Bearing, Ball-. J. E. Pruyn. No. 1,340,250; May 18; v. 274; p. 433.
Bearing, Ball and roller. E. P. Hallander. No. 1,358,634; Nov. 9; v. 280; p. 341.

Digitized by Google

Bearing, Ball or roller. E. A. Forsberg. No. 1,334,027; Mar. 16; v. 272; p. 463.
Bearing, Body-bolster side. J. F. O'Connor. No. 1,357,808; Nov. 2; v. 280; p. 116.
Bearing-box. H. C. Foster. No. 1,349,449; Aug. 10; v. 277; p. 309.
Bearing-box. G. O. Helmstaedter. No. 1,358,444; Nov. 9; v. 280; p. 303.
Bearing cage, Ball-. K. W. Peterson. No. 1,361,177; Dec. 7; v. 281; p. 89.
Bearing cage, Ball-. E. H. W. Welbull. No. 1,354,863; Oct. 5; v. 279; p. 83.
Bearing cage, Roller-. J. Bingham. No. 1,355,303; Oct. 12; v. 279; p. 222.
Bearing, Carrier-. F. P. Sawders and J. G. Murray. No. 1,339,476; May 11; v. 274; p. 229.
Bearing, Center-support. O. F. Carlson. No. 1,347,077; July 20; v. 276; p. 466.
Bearing, Combined radial and thrust ball-. N. A. Palmgren. No. 1,346,417; July 13; v. 276; p. 276.
Bearing, Connecting-rod. W. E. Day. No. 1,341,548; May 25; v. 274; p. 752.
Bearing construction for worm-gear and other purposes, Ball-. J. G. Henderson. No. 1,361,154; Dec. 7; v. 281; p. 34.
Bearing construction, Roller-. L. C. Bayles and F. M. Slater. No. 1,346,163; July 13; v. 276; p. 226.
Bearing counter, Ball-. R. B. Austin. No. 1,342,733; June 8; v. 275; p. 272.
Bearing, Counterbalanced roller-. J. F. O'Connor. No 1,360,781; Nov. 30; v. 280; p. 920.
Bearing, Crank-shaft. L. L. Snyder. No. 1,355,706; Oct. 12; v. 279; p. 300.
Bearing, Disk-. J. E. Heintz. No. 1,339,455; May 11; v. 274; p. 225.
Bearing, Double-acting thrust ball-. N. A. Palmgren. No. 1,342,756; June 8; v. 275; p. 276.
Bearing eccentric, Roller-. E. K. Thomason. No. 1,333,883; Mar. 16; v. 272; p. 435.
Bearing element and manufacturing same. R. J. Shoemaker. No. 1,341,938; June 1; v. 275; p. 64.
Bearing-finder. W. Wingate. No. 1,336,010; Apr. 6; v. 273; p. 58.
Bearing-fitting compound. H. C. Hagmaier. No. 1,361,719; Dec. 7; v. 281; p. 148.
Bearing for centrifugal separators, Yielding upper. G. W. Hofmann and W. R. Muray. No. 1,353,958; Sept. 28; v. 278; p. 579.
Bearing for conveyer-rollers. C. H. Lister. No. 1,351,481; Aug. 31; v. 277; p. 887.
Bearing for crank-shafts, Adjustable thrust-. T. N. Martin. No. 1,340,396; May 18; v. 274; p. 461.
Bearing for disks, Steel. H. B. Bozard. No. 1,328,787; Jan. 20; v. 270; p. 455.
Bearing for gravity-carriers, Ball-. H. J. Buck. (Reissue.) No. 14,792; Jan. 20; v. 270; p. 458.
Bearing for turbine-driven blowers. F. H. C. Coppus and W. H. Varney. No. 1,355,652; Oct. 12; v. 279; p. 289.
Bearing, Gas-engine. W. F. Kasper. No. 1,337,656; Apr. 20; v. 273; p. 504.
Bearing, Gas-lubricated. W. G. Abbott, Jr. No. 1,337,742; Apr. 20; v. 273; p. 521.
Bearing, Gravity self-centering roller-. J. F. O'Connor. No. 1,345,805; July 6; v. 276; p. 94.
Bearing, Gyroscope-. W. Dieter. No. 1,332,205; Mar. 2; v. 272; p. 5.
Bearing, High-speed roller-. K. Heindlhofer. No. 1,332,176; Feb. 24; v. 271; p. 650.
Bearing, Horizontal-thrust. A. Kingsbury. (Reissue.) No. 14,878; June 8; v. 275; p. 363.
Bearing, Journal-. F. Hachmann. No. 1,332,395; Mar. 2; v. 272; p. 48.
Bearing, Lay-rock-shaft. A. E. Rhoades. No. 1,362,122; Dec. 14; v. 281; p. 275.
Bearing, Line-shaft. J. T. Crane. No. 1,345,534; July 6; v. 276; p. 41.
Bearing, Lined. W. Klocke. No. 1,331,961; Feb. 24; v. 271; p. 610.
Bearing-lubricating device. K. E. Lyman. No. 1,349,076; Aug. 10; v. 277; p. 235.
Bearing machine, Oil-. P. F. Rogan. No. 1,362,268; Dec. 14; v. 281; p. 304.
Bearing member. C. S. Ricker and R. C. Root. No. 1,355,266; Oct. 12; v. 279; p. 215.
Bearing, Piston-rod journal-. C. J. Blankinship and W. M. Ellis. No. 1,338,351; Apr. 27; v. 273; p. 706.
Bearing-plate, Removable. B. H. Canady. No. 1,347,248; July 20; v. 276; p. 499.
Bearing-puller. F. J. Heinrich. No. 1,346,023; July 6; v. 276; p. 137.
Bearing, Quick-adjusting. W. M. France and L. B. Jones. No. 1,348,705; Aug. 3; v. 277; p. 111.
Bearing, Releasable. E. Lantz. No. 1,327,285; Jan. 6; v. 270; p. 76.
Bearing, Releasable. E. Lantz. No. 1,327,286; Jan. 6; v. 270; p. 76.
Bearing, Rocker-arms-shaft. W. W. Neighbour. No. 1,355,060; Oct. 5; v. 279; p. 121.
Bearing, Rocker side. J. F. O'Connor. No. 1,357,799; Nov. 2; v. 280; p. 114.
Bearing, Rocker-stud. W. T. Thacker. No. 1,348,602; Aug. 3; v. 277; p. 92.
Bearing, Roller-. O. G. Arnot. No. 1,341,873; June 1; v. 275; p. 51.
Bearing, Roller-. T. W. Bryant and C. G. Hoerle. No. 1,330,579; Feb. 10; v. 271; p. 262.
Bearing, Roller-. B. E. Dohner and A. J. Huff. No. 1,340,941; May 25; v. 274; p. 634.
Bearing, Roller-. A. H. Hindle. No. 1,356,766; Oct. 26; v. 279; p. 595.
Bearing, Roller-. A. M. Laycock. No. 1,338,939; May 4; v. 274; p. 53.
Bearing, Roller-. E. Meier. No. 1,328,179; Jan. 13; v. 270; p. 304.
Bearing, Roller-. O. E. Michaud. No. 1,363,340; Dec. 28; v. 281; p. 604.
Bearing, Roller-. G. L. Miller. No. 1,360,430; Nov. 30; v. 280; p. 851.
Bearing, Roller-. E. Norlund. No. 1,344,276; June 22; v. 275; p. 704.
Bearing, Roller-. J. F. O'Connor. No. 1,357,800; Nov. 2; v. 280; p. 114.
Bearing, Roller-. N. A. Palmgren. No. 1,350,263; Aug. 17; v. 277; p. 540.
Bearing, Roller-. M. F. Ross. No. 1,361,497; Dec. 7; v. 281; p. 105.
Bearing, Roller-. W. L. Scribner. No. 1,356,700; Oct. 26; v. 279; p. 599.
Bearing, Roller-. F. F. Sorensen. No. 1,354,922; Oct. 5; v. 279; p. 95.
Bearing, Roller-. F. W. Stewart. No. 1,350,680; Aug. 24; v. 277; p. 668.
Bearing, Roller-. J. N. Vandegrift. No. 1,331,686; Feb. 24; v. 271; p. 558.
Bearing, Roller-. E. H. W. Welbull. No. 1,335,766; Apr. 6; v. 273; p. 12.
Bearing, Roller-. L. Wilson. No. 1,327,003; Jan. 6; v. 270; p. 24.
Bearing, Roller-. S. G. Wingquist and N. A. Palmgren. No. 1,356,326; Oct. 19; v. 279; p. 463.
Bearing, Roller-. C. A. Winn. No. 1,349,307; Aug. 10; v. 277; p. 281.
Bearing, Roller or ball. A. E. Dabbs, S. W. Savage, and A. H. Hindle. No. 1,327,026; Jan. 6; v. 270; p. 28.
Bearing, Roller or ball. A. E. Dabbs, S. W. Savage, and A. H. Hindle. No. 1,346,443; July 13; v. 276; p. 282.
Bearing, Roller side-. W. A. Bock. No. 1,357,834; Nov. 2; v. 280; p. 121.
Bearing, Roller side-. J. F. O'Connor. No. 1,357,798; Nov. 2; v. 280; p. 114.
Bearing, Roller thrust-. J. W. Simmons. No. 1,334,266; Mar. 16; v. 272; p. 507.
Bearing, Self-alining side. J. F. O'Connor. No. 1,357,812; Nov. 2; v. 280; p. 117.
Bearing, Self-lubricating. R. Bisconer. No. 1,329,948; Feb. 3; v. 271; p. 113.
Bearing, Self-lubricating. O. F. Conklin. No. 1,341,415; May 25; v. 274; p. 727.
Bearing, Self-lubricating. C. L. Hawes. No. 1,334,535; Mar. 23; v. 272; p. 604.
Bearing, Self-lubricating. S. Prestwick. No. 1,357,420; Nov. 2; v. 280; p. 41.
Bearing, Self-oiling. J. D. Jones. No. 1,362,571; Dec. 14; v. 281; p. 302.
Bearing, Self-oiling metal. N. W. Kinney. No. 1,346,377; July 13; v. 276; p. 268.
Bearing, Shaft-. R. E. Hellmund and B. S. Moore. No. 1,329,241; Jan. 27; v. 270; p. 570.
Bearing, Shaft-. B. S. Moore. No. 1,332,056; Feb. 24; v. 271; p. 629.
Bearing, Shaft-. W. W. Neighbour. No. 1,339,277; May 4; v. 274; p. 115.
Bearing-shell, Process and apparatus for lining a. F. C. Heath. No. 1,340,337; May 18; v. 274; p. 449.
Bearing, Side. W. A. Bock. No. 1,338,763; May 4; v. 274; p. 22.
Bearing, Side. C. E. Dath. No. 1,342,101; June 1; v. 275; p. 96.
Bearing, Side. J. F. O'Connor. No. 1,353,971; Sept. 28; v. 278; p. 582.
Bearing, Side. J. F. O'Connor. No. 1,357,802; Nov. 2; v. 280; p. 115.
Bearing, Side. J. F. O'Connor. No. 1,357,807; Nov. 2; v. 280; p. 116.
Bearing, Side. J. F. O'Connor. No. 1,357,810; Nov. 2; v. 280; p. 116.
Bearing, Side. J. F. O'Connor. No. 1,357,811; Nov. 2; v. 280; p. 116.
Bearing, Side. J. F. O'Connor. No. 1,360,780; Nov. 30; v. 280; p. 920.
Bearing, Side. E. W. Webb. No. 1,355,198; Oct. 12; v. 279; p. 202.
Bearing, Steering-post. G. E. Smith. No. 1,339,987; May 11; v. 274; p. 326.
Bearing structure, Internal. M. P. Pedersen and P. C. Petersen. No. 1,362,733; Dec. 21; v. 281; p. 446.
Bearing structure, Semipherical ball-. G. W. Dover. No. 1,346,400; July 13; v. 276; p. 273.
Bearing, Thrust-. E. Brown. No. 1,354,949; Oct. 5; v. 279; p. 100.
Bearing, Thrust-. L. Coatalen and H. C. M. Stevens. No. 1,328,716; Jan. 20; v. 270; p. 442.
Bearing, Thrust-. H. A. S. Howarth. No. 1,331,108; Feb. 17; v. 271; p. 430.

Digitized by Google

Bearing, Thrust-. H. A. S. Howarth. No. 1,342,384; June 1; v. 275; p. 150.
Bearing, Thrust-. A. Kingsbury. No. 1,349,157; Aug. 10; v. 277; p. 251.
Bearing, Thrust-. G. W. Nordstrom. No. 1,355,350; Oct. 12; v. 279; p. 231.
Bearing, Thrust-. J. W. Thropp. No. 1,337,028; Apr. 13; v. 273; p. 311.
Bearing, Universal roller-. E. P. Webster. No. 1,346,147; July 13; v. 276; p. 223.
Bearing unit, Roller-. W. E. Bock. No. 1,355,304; Oct. 12; v. 279; p. 222.
Bearing, Wheel-. C. M. Feist. No. 1,344,495; June 22; v. 275; p. 747.
Bearings and limbering up motors, Machine for burning in. A. O. White. No. 1,348,611; Aug. 3; v. 277; p. 94.
Bearings and manufacturing same, Ball-holder for ball-. K. W. Lindman. No. 1,346,323; July 13; v. 276; p. 259.
Bearings and thrust-bearings, Special design for ball-. A. Maire. No. 1,340,663; May 18; v. 274; p. 512.
Bearings, Apparatus for manufacturing rings, especially track-rings for ball and roller. P. S. Rydbeck. No. 1,338,462; Apr. 27; v. 273; p. 726.
Bearings, Apparatus for manufacturing rings, especially track rings for ball and roller. P. S. Rydbeck. No. 1,354,779; Oct. 5; v. 279; p. 66.
Bearings, Assembling antifriction-. A. H. Miller. No. 1,350,325; Aug. 24; v. 277; p. 598.
Bearings, Attachment for. J. A. Anderson. No. 1,342,319; June 1; v. 275; p. 138.
Bearings, Babbitting-jig for engine-crank-shaft. R. E. Roseberry. No. 1,358,578; Nov. 9; v. 280; p. 329.
Bearings, Ball-cage for axial-thrust ball-. A. Danielsson. No. 1,351,160; Aug. 31; v. 277; p. 822.
Bearings, Ball-cage for ball-. O. G. Gullbrandsson. No. 1,362,097; Dec. 14; v. 281; p. 270.
Bearings, Ball-holder for ball-. K. W. Lindman. No. 1,329,089; Jan. 27; v. 270; p. 542.
Bearings, Ball retainer and separator for thrust-. H. B. Keiper. No. 1,353,044; Sept. 14; v. 278; p. 295.
Bearings, Ball-retainer for radial ball-. C. A. B. R. Bråkenhielm. No. 1,352,110; Sept. 7; v. 278; p. 77.
Bearings, bushings, &c., Producing. L. W. Chadwick. No. 1,359,331; Nov. 16; v. 280; p. 521.
Bearings, Cage for roller or ball. A. H. Hindle, S. W. Savage, A. Liddle, and A. E. Dobbs. No. 1,358,848; Nov. 16; v. 280; p. 428.
Bearings, Clamping-sleeve for ball-. R. W. Lindhe. No. 1,334,620; Mar. 23; v. 272; p. 620.
Bearings, Cooling and lubricating system for. E. A. Sperry. No. 1,362,754; Dec. 21; v. 281; p. 450.
Bearings, Holder for ball and roller. E. Meier. No. 1,329,720; Feb. 3; v. 271; p. 70.
Bearings, Holder for balls in ball-. K. Nyström. No. 1,327,169; Jan. 6; v. 270; p. 54.
Bearings, Journal-box for roller-. G. W. Dallimore. No. 1,358,420; Nov. 9; v. 280; p. 299.
Bearings, Machine for burning in and burnishing engine-. T. W. Jansen. No. 1,353,164; Sept. 21; v. 278; p. 378.
Bearings, Machine for truing connecting-rod. C. E. Davis. No. 1,331,052; Feb. 17; v. 271; p. 420
Bearings, Making. C. Pack and H. H. Doehler. No. 1,333,337; Mar. 9; v. 272; p. 272.
Bearings, Manufacture of multiple. C. W. Barnaby. No. 1,341,265; May 25; v. 274; p. 686.
Bearings, Manufacture of so-called cup-rings for anti-friction-. J. W. Schatz. No. 1,339,672; May 11; v. 274; p. 267.
Bearings, Manufacturing rollers for roller-. J. H. Reifsnyder. No. 1,357,002; Oct. 26; v. 279; p. 641.
Bearings, Oiling and protecting means for ball-. D. J. Gilbert. No. 1,337,597; Apr. 20; v. 273; p. 273; p. 493.
Bearings, Retainer for roller thrust-. E. E. Arnold. No. 1,330,158; Feb. 10; v. 271; p. 184.
Bearings, Sealing-washer for roller-. N. A. Palmgren. No. 1,332,271; Mar. 2; v. 272; p. 18.
Bearings, Water-cooling system for centrifugal-pump. G. W. Wilson. No. 1,362,551; Dec. 14; v. 281; p. 359.
Beater. L. H. Tolhurst. No. 1,335,305; Mar. 30; v. 272; p. 809.
Beater. W. T. Zimmer. No. 1,332,788; Mar. 2; v. 272; p. 117.
Beating and refining engine. T. H. Nash. No. 1,351,962; Sept. 7; v. 278; p. 50.
Beating-machines, Dust-collector for. R. Olleo. No. 1,329,138; Jan. 27; v. 270; p. 551.
Bed. J. S. Bailey. No. 1,334,127; Mar. 16; v. 272; p. 482.
Bed. C. R. Ball. No. 1,337,580; Apr. 20; v. 273; p. 490.
Bed. J. Basile. No. 1,335,549; Mar. 30; v. 272; p. 854.
Bed. L. Edelstein. No. 1,355,545; Oct. 12; v. 279; p. 269.
Bed. F. M. Garner. No. 1,335,961; Apr. 6; v. 273; p. 49.
Bed. R. F. Hellweg. No. 1,350,155; Aug. 17; v. 277; p. 519.
Bed. L. Kroupa. No. 1,329,612; Feb. 3; v. 271; p. 50.
Bed. M. Moir. No. 1,350,327; Aug. 24; v. 277; p. 598.
Bed. J. Royer. No. 1,341,342; May 25; v. 274; p. 712.
Bed. C. M. Winn. No. 1,339,250; May 4; v. 274; p. 111.
Bed. J. M. Wallace. No. 1,363,295; Dec. 28; v. 281; p. 596.
Bed, Adjustable. J. Rust. No. 1,343,985; June 22; v. 275; p. 647.
Bed, Adjustable. J. R. Stark. No. 1,343,593; June 15; v. 275; p. 504.
Bed, Adjustable inclined. V. M. Broun. No. 1,348,779; Aug. 3; v. 277; p. 125.
Bed, Adjustable spring camping-. C. D. Hellyer. No. 1,330,533; Feb. 10; v. 271; p. 253.
Bed and bureau, Combined folding. A. Ghittino. No 1,350,720; Aug. 24; v. 277; p. 676.
Bed and chair, Combination. D. Lytwynee. No. 1,347,748; July 27; v. 276; p. 656.
Bed and collapsible chair combination, Telescopical. J. Chomos. No. 1,348,481; Aug. 3; v. 277; p. 68.
Bed and coop, Child's folding combined. J. S. Winget. No. 1,340,694; May 18; v. 274; p. 517.
Bed attachment. M. Estes. No. 1,356,613; Oct. 26; v. 279; p. 565.
Bed attachment. G. A. Gamlin. No. 1,329,395; Feb. 3; v. 271; p. 10.
Bed attachment. J. W. Patterson. No. 1,363,430; Dec. 28; v. 281; p. 621.
Bed attachment. M. E. Richards. No. 1,359,430; Nov. 16; v. 280; p. 541.
Bed attachment. A. Schoonmaker. No. 1,342,354; June 1; v. 275; p. 144.
Bed attachment, Combination. J. W. Weismantel. No. 1,353,502; Sept. 21; v. 278; p. 444.
Bed, Auto-. D. D. Hamilton. No. 1,356,141; Oct. 19; v. 279; p. 426.
Bed, Auto-porch. P. C. Schaefer. No. 1,347,413; July 20; v. 276; p. 532.
Bed, Auto-porch. P. C. Schaefer, H. D. Hulse, and G. M. Livingstone. No. 1,347,412; July 20; v. 276; p. 532.
Bed, Auto spring-. W. E. Cummings. No. 1,349,268; Aug. 10; v. 277; p. 274.
Bed, Automobile-. G. W. Young. No. 1,345,820; July 6; v. 276; p. 96.
Bed, Automobile convertible. F. L. Westrum. No. 1,360,102; Nov. 23; v. 280; p. 731.
Bed-bottom. E. Fuller. No. 1,353,579; Sept. 21; v. 278; p. 460.
Bed-bottom hanger. D. C. Travis and F. Kusterle. No. 1,336,897; Apr. 6; v. 273; p. 131.
Bed-bottom, Metallic. J. Seelig. No. 1,329,145; Jan. 27; v. 270; p. 553.
Bed-bottom structure. G. S. Greenleaf. No. 1,340,540; May 18; v. 274; p. 488.
Bed-bottoms, Binding and fastening means for fabric. A. Gelman. No. 1,362,989; Dec. 21; v. 281; p. 495.
Bed, Bunk-. H. A. Locklin. No. 1,357,787; Nov. 2; v. 280; p. 112.
Bed, Camp-. H. R. Basford. No. 1,335,548; Mar. 30; v. 272; p. 854.
Bed-canopy. C. L. Van Tuyl. No. 1,349,029; Aug. 17; v. 277; p. 475.
Bed-chair. J. A. Arton. No. 1,336,062; Apr. 6; v. 273; p. 67.
Bed, Chair-. W. F. Eschenbrenner. No. 1,343,044; June 8; v. 275; p. 334.
Bed, Collapsible. R. E. Baker. No. 1,358,407; Nov. 9; v. 280; p. 296.
Bed, Collapsible. L. F. Schilling. No. 1,354,343; Sept. 28; v. 278; p. 658.
Bed, Collapsible. P. Skwarko. No. 1,330,725; Feb. 10; v. 271; p. 289.
Bed, Collapsible. F. M. Stoll. No. 1,327,886; Jan. 13; v. 270; p. 249.
Bed, Collapsible spring cot-. J. W. Richards. No. 1,330,901; Feb. 17; v. 271; p. 391.
Bed, Combination-. F. Juszczak. No. 1,346,896; July 20; v. 276; p. 430.
Bed, Combination-. J. Sadlik. No. 1,359,623; Nov. 23; v. 280; p. 623.
Bed, Combination screen-. A. W. McCreary. No. 1,347,393; July 20; v. 276; p. 528.
Bed, Convertible table-. J. M. McGhee. No. 1,348,572; Aug. 3; v. 277; p. 86.
Bed, Convertible wardrobe-. J. M. McGhee. No. 1,353,536; Sept. 21; v. 278; p. 451.
Bed-cover holder. W. L. Dennison. No. 1,328,621; Jan. 20; v. 270; p. 425.
Bed-covering and bed-springs covering. M. B. Ray. No. 1,359,526; Nov. 23; v. 280; p. 605.
Bed, cradle, and wardrobe, Combination baby's. W. W. Knight. No. 1,336,240; Apr. 6; v. 273; p. 101.
Bed, Davenport-. M. L. Brilliant. No. 1,351,011; Aug. 24; v. 277; p. 731.
Bed, Davenport-. J. Kronheim. No. 1,349,162; Aug. 10; v. 277; p. 252.
Bed, Davenport-. F. Wajtukiewicz. No. 1,360,478; Nov. 30; v. 280; p. 861.
Bed davenport or couch. S. Goldstein. No. 1,330,982; Feb. 17; v. 271; p. 407.
Bed davenport or couch. W. Steiff. No. 1,330,990; Feb. 17; v. 271; p. 409.
Bed, Davenport sofa-. J. Luppino. No. 1,334,768; Mar. 23; v. 272; p. 648.
Bed, dresser, and washstand, Folding. O. B. Block. No. 1,344,257; June 22; v. 275; p. 699.

Digitized by Google

Bed, Extensible chair-. A. Zwolinski. No. 1,346,582; July 13; v. 276; p. 309.
Bed, Foldable. H. H. Basford. No. 1,328,977; Jan. 27; v. 270; p. 521.
Bed, Foldable. E. E. Hartman. No. 1,348,944; Aug. 10; v. 277; p. 209.
Bed, Folding. C. R. Bruce. No. 1,340,212; May 18; v. 274; p. 426.
Bed, Folding. C. Burton and R. A. Shaw. No. 1,360,983; Nov. 30; v. 280; p. 959.
Bed, Folding. J. C. Culbertson. No. 1,359,337; Nov. 16; v. 280; p. 522.
Bed, Folding. N. B. Douglass. No. 1,344,995; June 29; v. 275; p. 908.
Bed, Folding. N. B. Douglass. No. 1,349,946; Aug. 17; v. 277; p. 478.
Bed, Folding. R. Haight. No. 1,339,650; May 11; v. 274; p. 263.
Bed, Folding. M. Hollo. No. 1,358,209; Nov. 9; v. 280; p. 255.
Bed, Folding. G. R. McAllaster. No. 1,337,321; Apr. 20; v. 273; p. 441.
Bed, Folding. G. R. McAllaster. No. 1,344,450; June 22; v. 275; p. 738.
Bed, Folding. H. J. Meyers. No. 1,352,909; Sept. 14; v. 278; p. 269.
Bed, Folding. R. B. Page. No. 1,340,735; May 18; v. 274; p. 524.
Bed, Folding. R. B. Page. No. 1,352,525; Sept. 14; v. 278; p. 191.
Bed, Folding. C. O. Pelletier. No. 1,344,188; June 22; v. 275; p. 686.
Bed, Folding and telescoping. R. W. Sheldon. No. 1,358,027; Nov. 9; v. 280; p. 219.
Bed, Folding auto-. C. A. Kline. No. 1,356,154; Oct. 19; v. 279; p. 428.
Bed, Folding camp-. G. P. and G. F. Salle. No. 1,359,844; Nov. 23; v. 280; p. 667.
Bed, Folding davenport-. O. A. Honsinger. No. 1,349,883; Aug. 17; v. 277; p. 467.
Bed-forming device, Silt-. H. F. Kellner. No. 1,355,051; Oct. 5; v. 279; p. 120.
Bed-frame. H. Gertler. No. 1,359,692; Nov. 23; v. 280; p. 637.
Bed-frame connection. B. H. Johnson and B. M. Phelps. No. 1,351,758; Sept. 7; v. 278; p. 8.
Bed-frame corner-bracket. J. Walker. No. 1,334,639; Mar. 23; v. 272; p. 623.
Bed-frame, Foldable. P. J. de Does. No. 1,348,156; Aug. 3; v. 277; p. 5.
Bed-guard. E. J. Schmidt. No. 1,333,039; Mar. 9; v. 272; p. 216.
Bed having vertical pivots, Screened. W. C. James. No. 1,353,163; Sept. 21; v. 278; p. 378.
Bed headrest attachment. A. MacDonald. No. 1,353,537; Sept. 21; v. 278; p. 451.
Bed, Hospital-. P. H. Pierson. No. 1,359,100; Nov. 16; v. 280; p. 475.
Bed, Invalid-. T. Dodds. No. 1,332,546; Mar. 2; v. 272; p. 72.
Bed, Invalid's. E. P. Frye. No. 1,345,760; July 6; v. 276; p. 85.
Bed, Invalid's. F. R. Payne. No. 1,356,467; Oct. 19; v. 279; p. 489.
Bed-lifter. O. C. Liles. No. 1,334,914; Mar. 23; v. 272; p. 677.
Bed-lock, Pressed-steel metal. H. Dierker. No. 1,344,583; June 22; v. 275; p. 765.
Bed-making and bedclothes-airing device, Combined. T. Lenz. No. 1,363,046; Dec. 21; v. 281; p. 507.
Bed, Metallic. J. H. Bradley. No. 1,337,340; Apr. 20; v. 273; p. 445.
Bed, Multiple and foldable. T. Mieczeieski. No. 1,357,578; Nov. 2; v. 280; p. 71.
Bed or attachment therefor. M. C. Nixon. No. 1,348,820; Aug. 3; v. 277; p. 132.
Bed or couch, Sanitary. T. Peers. No. 1,361,544; Dec. 7; v. 281; p. 115.
Bed or seat spring structures, Connector for. C. S. Burton. No. 1,347,989; July 27; v. 276; p. 703.
Bed-pans, Bed attachment for. L. T. Audl. No. 1,363,550; Dec. 28; v. 281; p. 645.
Bed-plates to sole-plates, Securing. L. D. Lovekin. No. 1,344,416; June 22; v. 275; p. 731.
Bed, Pneumatic or compressed-air-cushion. R. A. Leigh. No. 1,351,480; Aug. 31; v. 277; p. 887.
Bed, Portable folding. W. A. Regentz. No. 1,333,823; Mar. 16; v. 272; p. 424.
Bed-rail. O. C. Wysong. No. 1,333,008; Mar. 9; v. 272; p. 211.
Bed-rail and lock. J. A. Charbonnet. No. 1,336,282; Apr. 6; v. 273; p. 109.
Bed-rail fastener. M. B. Okun. No. 1,346,908; July 20; v. 276; p. 433.
Bed-rest. W. H. Clampett. No. 1,336,197; Apr. 6; v. 273; p. 93.
Bed-rest. A. Hackman. No. 1,336,294; Apr. 6; v. 273; p. 111.
Bed-rest, Collapsible. A. G. Fuller. No. 1,361,042; Dec. 7; v. 281; p. 12.
Bed, Settling-. G. W. Otterson. No. 1,344,710; June 29; v. 275; p. 854.
Bed, Sick-. J. W. Morris and L. L. Bayles. No. 1,363,341; Dec. 28; v. 281; p. 604.
Bed-slat. N. Kaplan. No. 1,328,878; Jan. 27; v. 270; p. 502.
Bed, Sofa-. J. J. Gruenfeld, Jr. No. 1,352,806; Sept. 14; v. 278; p. 229.
Bed-spring. L. H. Ershler and M. Hendler. No. 1,337,508; Apr. 20; v. 273; p. 476.
Bed, Spring-. J. H. Hower. No. 1,341,714; June 1; v. 275; p. 19.
Bed, Spring-. H. M. Jackson. No. 1,344,636; June 29; v. 275; p. 840.
Bed-spring. M. Novick. No. 1,329,202; Jan. 27; v. 270; p. 563.
Bed-spring. C. W. Piper. No. 1,332,682; Mar. 2; v. 272; p. 97.
Bed-spring. H. E. Powell. No. 1,345,235; June 29; v. 275; p. 954.
Bed-spring. S. Weissman and R. Weisman. No. 1,340,510; May 18; v. 274; p. 482.
Bed-spring corner. F. Kusterle. No. 1,359,714; Nov. 23; v. 280; p. 641.
Bed-spring fabric. C. W. Piper. No. 1,335,984; Apr. 6; v. 273; p. 53.
Bed-spring, Knockdown. G. A. C. Monroe. No. 1,328,751; Jan. 20; v. 270; p. 449.
Bed-spring, Spiral. W. E. Frank. No. 1,327,231; Jan. 6; v. 270; p. 66.
Bed-spring structure. M. B. Okun. No. 1,335,523; Mar. 30; v. 272; p. 850.
Bed-springs, Lock-block for steel. P. W. Steele. No. 1,334,814; Mar. 23; v. 272; p. 657.
Bed stand, Folding-. J. P. Batten. No. 1,355,120; Oct. 12; v. 279; p. 185.
Bed, Table-. R. N. Woodman. No. 1,337,497; Apr. 20; v. 273; p. 474.
Bed, table, and cabinet, Combination. W. A. Fry. No. 1,334,993; Mar. 30; v. 272; p. 751.
Bed-table combined with cupboards or like receptacles. A. Trotter. No. 1,349,023; Aug. 10; v. 277; p. 225.
Bed, Tent-. F. M. Stoll. No. 1,327,887; Jan. 13; v. 270; p. 249.
Bed, Tilting. G. Anderson. No. 1,328,802; Jan. 27; v. 270; p. 487.
Bed, Vertically-pivoted wall- W. C. James. No. 1,353,162; Sept. 21; v. 278; p. 378.
Bed vessel, Sanitary cushioned. A. G. Snyder. No. 1,362,751; Dec. 21; v. 281; p. 449.
Bed, Wall-. J. Sorensen. No. 1,349,738; Aug. 17; v. 277; p. 439.
Bed-warming device. N. W. Dendy. No. 1,347,005; July 27; v. 276; p. 704.
Bed, Window-. E. J. Henry. No. 1,340,609; May 18; v. 274; p. 501.
Beds, Corner-post fastener for. M. B. Okun. No. 1,332,853; Mar. 2; v. 272; p. 129.
Beds, Folding attachment for. F. Eberl. No. 1,347,447; July 20; v. 276; p. 539.
Beds, Foot-rail for folding. R. Coopersmith. No. 1,363,956; Dec. 28; v. 281; p. 723.
Beds, furniture, and the like, Post and side bars of. S. B. Gamble. No. 1,348,707; Aug. 3; v. 277; p. 111.
Beds, Headrest for. J. McKay. No. 1,327,108; Jan. 6; v. 270; p. 43.
Beds, Shelter for outside sleeping-. A. H. Carrier. No. 1,360,883; Nov. 30; v. 280; p. 940.
Bedclothes-support. C. A. K. Bolander. No. 1,361,812; Dec. 14; v. 281; p. 213.
Bedclothes-support. L. M. Dobbins. No. 1,351,557; Aug. 31; v. 277; p. 902.
Bedpan. K. E. Blum. No. 1,361,746; Dec. 7; v. 281; p. 153.
Bedpan. S. B. Johnson. No. 1,361,385; Dec. 7; v. 281; p. 81.
Bedpan. C. F. Zimmerman. No. 1,340,680; May 18; v. 274; p. 515.
Bedpan, Sanitary. E. W. Stoler and H. Trease. No. 1,346,388; July 13; v. 276; p. 271.
Bedpost-fastener. M. B. Okum. No. 1,337,150; Apr. 13; v. 273; p. 334.
Bedspread. I. Christensen. No. 1,343,881; June 15; v. 275; p. 563.
Bedstead. J. McAllan. No. 1,349,287; Aug. 10; v. 277; p. 277.
Bedstead. G. Goodwin. No. 1,337,012; Apr. 13; v. 273; p. 308.
Bedstead. B. S. Hawley. No. 1,327,554; Jan. 6; v. 270; p. 126.
Bedstead. J. Villapol. No. 1,360,832; Nov. 30; v. 280; p. 930.
Bedstead and wardrobe, Combination. B. Lipshitz. No. 1,338,741; May 4; v. 274; p. 17.
Bedstead attachment. A. B. Calloway. No. 1,360,985; Nov. 30; v. 280; p. 959.
Bedstead corner - fastening. M. Schlesinger. No. 1,337,799; Apr. 20; v. 273; p. 531.
Bedstead corner-joint. R. Tattu. No. 1,337,626; Apr. 20; v. 273; p. 273; p. 498.
Bedstead, Invalid-. L. J. Snyder. No. 1,330,658; Feb. 10; v. 271; p. 276.
Bedstead side rails, Rest for springs on. R. J. Ellsworth. No. 1,357,317; Nov. 2; v. 280; p. 23.

Digitized by Google

Bedsteads and occupants from place to place, Apparatus for transferring. M. Volk. No. 1,337,861; Apr. 20; v. 273; p. 543.
Bedsteads, Corner for. R. Tattu. No. 1,337,627; Apr. 20; v. 273; p. 499.
Bedsteads, Leg-mount bushing for. L. A. Brown. No. 1,333,604; Mar. 16; v. 272; p. 383.
Bedsteads, Receptacle attachment for. E. T. Camenisch. No. 1,357,951; Nov. 9; v. 280; p. 204.
Bedsteads, Table attachment for. W. L. Hartman. No. 1,347,271; July 20; v. 276; p. 505.
Bee-cage. E. B. Ault. No. 1,353,137; Sept. 21; v. 278; p. 378.
Bee-frame-inspection stand, Honey-. R. Mueller. No. 1,363,149; Dec. 21; v. 281; p. 527.
Bee-shipping package. M. T. Pritchard. No. 1,361,404; Dec. 7; v. 281; p. 85.
Beehive. D. Baxter. No. 1,348,925; Aug. 10; v. 277; p. 206.
Beehive. R. Karpinski. No. 1,336,523; Apr. 13; v. 273; p. 214.
Beehive. F. and S. Pelc. No. 1,344,817; June 29; v. 275; p. 875.
Beehive. D. S. Rowe. No. 1,363,922; Dec. 28; v. 281, p. 716.
Beehive attachment. G. B. Biggs. No. 1,357,832; Nov. 2; v. 280; p. 121.
Beehive for raising queen bees. J. Fisk. No. 1,341,364; May 25; v. 274; p. 717.
Beehive-protector. H. W. Brandt. No. 1,361,361; Dec. 7; v. 281; p. 76.
Beef-splitting machine. D. L. Appelberry. No. 1,353,013; Sept. 14; v. 278; p. 289.
Beer and low-alcoholic malt beverages, Brewing. C. A. Nowak. No. 1,328,888; Jan. 27; v. 270; p. 504.
Beer, Manufacture of alcohol-reduced. H. Heuser. (Reissue.) No. 14,889; June 22; v. 275; p. 771.
Beet blocker, Sugar-. S. Nordenberg and S. Donner. No. 1,346,332; July 13; v. 276; p. 261.
Beet-gathering machine. J. A. Caywood. No. 1,336,024; Apr. 6; v. 273; p. 61.
Beet-loading machine. F. Jones. No. 1,336,529; Oct. 26; v. 279; p. 549.
Beet-plant-thinning machine. W. R. Gwin. No. 1,331,148; Feb. 17; v. 271; p. 438.
Beet-puller. W. Schmidt. No. 1,340,796; May 18; v. 274; p. 536.
Beet-puller, Automatic. V. Kosenko. No. 1,354,111; Sept. 28; v. 278; p. 611.
Beet screening, piling, and loading machine. F. Jones. No. 1,336,297; Apr. 6; v. 273; p. 112.
Beet-topper. A. H. Ballard. No. 1,344,849; June 29; v. 275; p. 881.
Beet-topper. M. A. Greene. No. 1,335,962; Apr. 6; v. 273; p. 49.
Beet-topper. R. J. Johnson. No. 1,327,760; Jan. 13; v. 270; p. 226.
Beet-topper. G. H. Smith. No. 1,354,857; Oct. 5; v. 279; p. 82.
Beet-topper and hoe combined. C. J. Thim. No. 1,361,201; Dec. 7; v. 281; p. 44.
Beet-topping machine. J. Devey. No. 1,351,287; Aug. 31; v. 277; p. 848.
Beet-topping machine. W. L and F. L. Johnston. No. 1,341,909; June 1; v. 275; p 58.
Beet-topping machine. M. A. Smith. No. 1,344,966; June 29; v. 275; p. 902.
Beet-topping means. C. L. Leonard and A. F. Howard. No. 1,358,403; Sept. 21; v. 278; p. 425.
Bell. J. T. Patelis. No. 1,362,348; Dec. 14; v. 281; p. 310.
Bell. A. Roy. No. 1,349,694; Aug. 17; v. 277; p. 431.
Bell, Diving-. K. A. Olson. No. 1,361,899; Dec. 14; v. 281; p. 230.
Bell, Electric. W. D. Lutz. No. 1,327,340; Jan. 6; v. 270; p. 85.
Bell, Electric. F. W. Wood. No. 1,331,134; Feb. 17; v. 271; p. 435.
Bell-ringer. L. La Munyon. No. 1,340,059; May 11; v. 274; p. 339.
Bell-ringing mechanism. H. A. Wende. No. 1,349,400; Aug. 10; v. 277; p. 300.
Belt. C. O. Bakke. No. 1,350,915; Aug. 24; v. 277; p. 712.
Belt. N. de Beaumont. No. 1,345,750; July 6; v. 276; p. 83.
Belt. N. T. Fogg. No. 1,338,859; May 4; v. 274; p. 89.
Belt. C. E. Greenwald. No. 1,327,035; Jan. 6; v. 270; p. 80.
Belt. C. E. Greenwald. No. 1,361 983; Dec. 14; v. 281; p. 248.
Belt. T. Kusuda. No. 1,329,190; Jan. 27; v. 270; p. 561.
Belt. M. J. Smith. No. 1,356,890; Oct. 26; v. 279; p. 619.
Belt. C. M. Waltz. No. 1,339,309; May 4; v. 274; p. 121.
Belt-buckle. E. J. Hayden. No. 1,363,731; Dec. 28; v 281; p. 679.
Belt, Buoyant. R. M. Watts. No. 1,341,529; May 25; v. 274; p. 749.
Belt, Catamenial. A. Miyamoto. No. 1,356,937; Oct. 26; v. 279; p. 628.
Belt-clasp. H. H. Curtis. No. 1,356,517; Oct 26; v. 279; p. 546.
Belt-clasp. G. E. McCormack. No. 1,354,771; Oct. 5; v. 279; p. 65.
Belt, Conveyer. J. C. Frey. No. 1,339,646; May 11; v. 274; p. 262.
Belt conveyer. H. E. Howard. No. 1,363,469; Dec. 28; v. 281; p. 628.
Belt, Conveyer-. G. Kenneck. No. 1,354,493; Oct. 5; v. 279; p. 9.
Belt-conveyer. C. S. Wray. No. 1,353,008; Sept. 14; v. 278; p. 288.
Belt-cutter. M. Buckingham. No. 1,344,169; June 22; v. 275; p. 682.
Belt-driving. K. E. A. Granstedt. No. 1,352,511; Sept. 14; v. 278; p. 189.
Belt-fastener. F. F. Backstrom. No. 1,327,798; Jan. 13; v. 270; p. 233.
Belt-fastener. F. Chantrell. No. 1,330,239; Feb. 10; v. 271, p. 199.
Belt-fastener. G. Flury. No. 1,328,426; Jan. 20; v. 270; p. 388.
Belt-fastener. F. D. Schilling. No. 1,348,747; Aug. 3; v. 277; p. 118.
Belt-fastener, Adjustable flexible. J. B. McGrory. No. 1,355,766; Oct. 12; v. 279; p. 311.
Belt-fastener-setting machine. J. K. Diamond. No. 1,328,424; Jan. 20; v. 270; p. 387.
Belt-fastening device. J. Millar. No. 1,361,083; Dec. 7; v. 281; p. 20.
Belt-fastening hooks, Method and machine for forming ganged. B. Garilius and F. W. Knott. No. 1,342,712; June 8; v. 275; p. 267.
Belt, Filtering-. J. A. McCaskell. No. 1,338,232; Apr. 27; v. 273; p. 683.
Belt-gearing for drill-press. J. G. Hey. No. 1,363,786; Dec. 28; v. 281; p. 690.
Belt key-holder. A. A. Lutz. No. 1,341,811; June 1; v. 275; p. 39.
Belt-machine. J. Wolny. No. 1,339,874; May 11; v. 274; p. 305.
Belt-making process. C. C. Gates. (Reissue.) No. 14,875; June 8; v. 275; p. 362.
Belt, Motor-. R. D. Edwards. No. 1,335,280; Mar. 30; v. 272; p. 804.
Belt or girdle support. M. E. Horschmann. No. 1,328,958; Jan. 27; v. 270; p. 518.
Belt, Power-transmitting. A. J. Belch. No. 1,344,475; June 22; v. 275; p. 743.
Belt, Reinforced. E. E. Shiner. No. 1,360,456; Nov. 30; v. 280; p. 856.
Belt retaining and tightening device, Fan-. C. Johnson. No. 1,339,893; May 11; v. 274; p. 308.
Belt-shifter. G. E. Jackson. No. 1,335,786; Apr. 6; v. 273; p. 6.
Belt-shifter. J. Jurevich. No. 1,333,256; Mar. 9; v. 272; p. 256.
Belt-shifter. F. G. Kleckler. No. 1,354,406; Sept. 28; v. 278; p. 670.
Belt-shifter. C. E. Loose. No. 1,357,881; Nov. 2; v. 280; p. 130.
Belt-shifter. W. Nelson. No. 1,359,909; Nov. 23; v. 280; p. 680.
Belt-shifter. G. A. Reeve. No. 1,341,440; May 25; v. 274; p. 732.
Belt-shifter. J. E. Stagl. No. 1,362,967; Dec. 21; v. 281; p. 499.
Belt, Shirtwaist-. J. S. Brierly. No. 1,331,557; Feb. 24; v. 271; p. 534.
Belt-splicer. C. C. Clayberg. No. 1,341,359; May 25; v. 274; p. 716.
Belt-stapling device. A. Michal. No. 1,350,826; Aug. 24; v. 277; p. 696.
Belt-stretcher. W. L. Cherry. No. 1,344,485; June 22; v. 275; p. 745.
Belt-stretching mechanism. F. A. Fishbaugh. No. 1,358,433; Nov. 9; v. 280; p. 301.
Belt-tightener. C. L. Rayfield. No. 1,345,461; July 6; v. 276; p. 26.
Belt-tightener. C. L. Rayfield. No. 1,348,183; Aug. 3; v. 277; p. 10.
Belt-tightener. E. E. Richardson. No. 1,338,096; Apr. 27; v. 273; p. 657.
Belt-tightener. D. D. Roberts. No. 1,363,015; Dec. 21; v. 281; p. 500.
Belt-tightener. C. L. Stickney. No. 1,338,405; Apr. 27; v. 273; p. 715.
Belt-tightener, Automatic. H. J. Smith. No. 1,348,905; Aug. 10; v. 277; p. 202.
Belt, Track-. M. B. Morgan. No. 1,357,718; Nov. 2; v. 280; p. 98.
Belt, Traction-. R. L. Arndt. No. 1,328,648; Jan. 20; v. 270; p. 429.
Belt, Traction-. J. W. Porter and R. L. Arndt. No. 1,339,786; May 11; v. 274; p. 288.
Belt, Traction-. H. C. Steele. No. 1,339,298; May 4; v. 274; p. 119.
Belt, Tractor-. E. R. Arndt. No. 1,358,494; Nov. 9; v. 280; p. 313.
Belt, Tractor-. A. R. Blewett. No. 1,343,958; June 22; v. 275; p. 642.

Digitized by Google

Alphabetical list of inventions—Continued.

Belt transmission. H. Kocourek. No. 1,354,407; Sept. 28; v. 278; p. 671.
Belt unshipper, Drive-. D. O. Ford. No. 1,355,461; Oct. 12; v. 279; p. 253.
Belts, Apparatus for producing driving-. A. Carlsen. No. 1,346,700; July 13; v. 276; p. 333.
Belts, Composition for impregnating. W. G. Cook. No. 1,334,436; Mar. 23; v. 272; p. 586.
Belts, Fastener for use with. W. H. Stevens. No. 1,361,921; Dec. 14; v. 281; p. 235.
Belts, Forming endless V-. C. C. Gates. No. 1,354,738; Oct. 5; v. 279; p. 58.
Belts, Manufacturing. F. Gilardini. No. 1,360,923; Nov. 30; v. 280; p. 947.
Belts, Method and apparatus for cleaning conveyer-. E. G. Carr. No. 1,331,484; Feb. 24; v. 271; p. 520.
Belts, Method of and apparatus for manufacturing. H. M. Lambert. No. 1,354,569; Oct. 5; v. 279; p. 24.
Belts, Punch for perforating. M. C. Gleerup-Möller. No. 1,338,296; Apr. 27; v. 273; p. 695.
Belts, Splicing device for joining the ends of. O. Czaran. No. 1,362,604; Dec. 21; v. 281; p. 420.
Belts, suspenders, &c., Clasp for. T. P. Wallace. No. 1,357,751; Nov. 2; v. 280; p. 105.
Belts, Unit for track-. E. Gruber. No. 1,359,499; Nov. 23; v. 280; p. 599.
Belting. J. D. Coughlin. No. 1,341,073; June 1; v. 275; p. 71.
Belting. W. B. Foster. No. 1,332,390; Mar. 2; v. 272; p. 42.
Belting. K. Wandel. No. 1,357,917; Nov. 2; v. 280; p. 137.
Belting, Apparatus for Manufacturing. E. F. Gingras. No. 1,351,901; Sept. 7; v. 278; p. 38.
Belting fabric. C. H. Dankmeyer. No. 1,347,254; July 20; v. 276; p. 501.
Belting, Link. W. E. E. Anderson. No. 1,334,926; Mar. 23; v. 272; p. 680.
Belting, Machine for making round. A. E. Barker. No. 1,345,907; July 6; v. 276; p. 114.
Bench: *See*—
Advertising-bench. Greenhouse-bench.
Clamping-bench.
Bench. G. More. No. 1,328,753; Jan. 20; v. 270; p. 459.
Bench-clamp. A. O. Borg. No. 1,362,222; Dec. 14; v. 281; p. 295.
Bench, Collapsible. I. Danyluk. No. 1,343,810; June 15; v. 275; p. 548.
Bench-dog. O. E. Felland. No. 1,357,970; Nov. 9; v. 280; p. 208.
Bench-dog. C. Gohr. No. 1,355,140; Oct. 12; v. 279; p. 189.
Bench, Piano-. C. F. Kade. No. 1,339,262; May 4; v. 274; p. 113.
Bending-brake. H. C. Dreis. No. 1,347,474; July 20; v. 276; p. 544.
Bending-machine. J. Farmer. No. 1,351,472; Aug. 31; v. 277; p. 885.
Bending-machine. O. O. Hayes. No. 1,354,481; Oct. 5; v. 279; p. 7.
Bending-machine. A. M. Meyers. No. 1,338,946; May 4; v. 274; p. 55.
Bending-machines, Gear-clutch for. P. B. Wallace and F. H. Fox. No. 1,342,363; June 1; v. 275; p. 146.
Benzene hydrocarbons from coal-gas, Recovery of. G. E. Darier. No. 1,336,893; Apr. 13; v. 273; p. 286.
Benzene, Producing halogenated homologues of. L. P. Kyrides. No. 1,345,373; July 6; v. 276; p. 9.
Berry-box. H. Opgenorth. No. 1,334,046; Mar. 16; v. 272; p. 467.
Berry-picker. J. C. Generouss. No. 1,362,285; Dec. 14; v. 281; p. 307.
Berry-picker. A. Mahtes. No. 1,353,172; Sept. 21; v. 278; p. 380.
Berth. R. Phelan and F. Bendix. No. 1,350,081; Aug. 17; v. 277; p. 505.
Berth construction. D. C. Travis and C. A. Stuart. No. 1,359,687; Nov. 23; v. 280; p. 626.
Berth, Folding camp-. W. F. Moody. No. 1,346,043; July 6; v. 276; p. 142.
Berth safety-spring. R. T. Crane, Jr. No. 1,336,943; Apr. 13; v. 273; p. 295.
Bessemerising iron. R. S. McCaffery. No. 1,338,655; Apr. 27; v. 273; p. 762.
Bevel. J. W. Smith. No. 1,336,102; Apr. 6; v. 273; p. 75.
Bevel, and level, Combination protractor. F. J. Goodie. No. 1,344,269; June 22; v. 275; p. 702.
Bevel and miter gage. J. S. M. Nicholson. No. 1,346,050; July 6; v. 276; p. 143.
Bevel-cutting machine. W. P. Curry. No. 1,336,731; Apr. 13; v. 273; p. 255.
Bevel-gage. H. Willson. No. 1,361,125; Dec. 7; v. 281; p. 29.
Bevel-gears, Machine for testing the operating qualities of. C. H. Logue. No. 1,363,799; Dec. 28; v. 281; p. 693.
Bevel-protractor. D. V. Zhukoff. No. 1,358,604; Nov. 9; v. 280; p. 334.
Beverage containers, Sealing-valve for carbonated-. C. M. Earl. No. 1,339,555; May 11; v. 274; p. 244.
Beverage, Dealcoholized fermented. J. Schneible. No. 1,343,587; June 15; v. 275; p. 503.
Beverage-dispensing apparatus. J. M. Canfield. No. 1,363,084; Dec. 21; v. 281; p. 514.
Beverage-dispensing apparatus. F. W. and C. L. Holderle. No. 1,332,945; Mar. 9; v. 272; p. 198.
Beverage-dispensing apparatus, Portable. D. Richardson and C. N. Jacoby. No. 1,352,475; Sept. 14; v. 278; p. 182.
Beverage extract and manufacturing same, Solid soluble. J. K. Lippen. No. 1,338,231; Apr. 27; v. 273; p. 688.
Beverage-mixer. M. Black. No. 1,327,900; Jan. 13; v. 270; p. 252.
Beverage-mixer. S. C. Sherman. No. 1,345,263; June 29; v. 275; p. 960.
Beverage, Non-alcoholic. A. L. Straus. No. 1,337,850; Apr. 20; v. 273; p. 541.
Beverage-preparing machine. E. C. Dennert. No. 1,352,435; Sept. 14; v. 278; p. 173.
Beverages, Apparatus for cooling and dispensing. E. R. Brown. No. 1,345,746; July 6; v. 276; p. 82.
Beverages, Dealcoholizing fermented. G. B. Sippel and G. J. Patitz. No. 1,333,457; Mar. 9; v. 272; p. 294.
Beverages, Dispensing device for carbonated. C. M. Earl. No. 1,327,228; Nov. 2; v. 280; p. 6.
Beverages, Making non-intoxicating. W. Wilhelmy, Sr. No. 1,338,803; May 4; v. 274; p. 29.
Beverages, Preserving carbonated. W. J. Ruff. No. 1,361,498; Dec. 7; v. 281; p. 105.
Bicycle. K. Chrobak. No. 1,332,709; Mar. 2; v. 272; p. 102.
Bicycle. J. Crear. No. 1,343,616; June 15; v. 275; p. 509.
Bicycle. W. H. and J. R. Millward; No. 1,342,688; June 8; v. 275; p. 263.
Bicycle. L. M. Wallace. No. 1,329,940; Feb. 3; v. 271; p. 111.
Bicycle attachment. R. O. Eiselt. No. 1,337,396; Apr. 20; v. 273; p. 455.
Bicycle-crank. J. J. McGuckin. No. 1,337,765; Apr. 20; v. 273; p. 525.
Bicycle-crank. J. J. McGuckin. No. 1,358,225; Nov. 9; v. 280; p. 258.
Bicycle-hanger and cone-locking device. R. O. Moreida. No. 1,361,398; Dec. 7; v. 281; p. 83.
Bicycle-lock. J. H. van Viersen. No. 1,343,856; June 15; v. 275; p. 558.
Bicycle luggage-carrier. R. S. Carson. No. 1,359,329; Nov. 16; v. 280; p. 520.
Bicycle-pedals, Repair of. J. Glanz. No. 1,352,445; Sept. 14; v. 278; p. 175.
Bicycle-pump lock. A. P. Lundin. No. 1,329,784; Feb. 3; v. 271; p. 81.
Bicycle-pump lock. A. P. Lundin. No. 1,338,512; Apr. 27; v. 273; p. 736.
Bicycle safety attachment. K. de Vries. No. 1,354,996; Oct. 5; v. 279; p. 90.
Bicycle-seat, Child's. V. A. Cherry. No. 1,350,987; Aug. 24; v. 277; p. 726.
Bicycle spring-fork. M. F. Hardnett. No. 1,343,820; June 15; v. 275; p. 550.
Bicycle-stand. A. Hantsch. No. 1,344,226; June 22; v. 275; p. 693.
Bicycle-stand holder. H. H. and L. E. Greischar. No. 1,332,826; Mar. 2; v. 272; p. 124.
Bicycle, Water-. J. Plateski. No. 1,332,634; Mar. 2; v. 272; p. 88.
Bicycle, Water-. M. Sopcense. No. 1,337,372; Apr. 20; v. 273; p. 451.
Bicycles, Chain-tightener attachment for. Q. E. Byrns. No. 1,357,540; Nov. 2; v. 280; p. 64.
Bicycles, Transmission for. E. Melnichuk. No. 1,334,108; Mar. 16; v. 272; p. 478.
Bidet. D. A. Ruffman. No. 1,348,518; Aug. 3; v. 277; p. 75.
Bill-posting device. E. E. Gallup. No. 1,327,544; Jan. 6; v. 270; p. 124.
Billet-turner. L. L. Welch. No. 1,340,640; May 18; v. 274; p. 507.
Billhead. H. L. Thompson. No. 1,330,730; Feb. 10; v. 271; p. 290.
Billhead and envelop, Combined. I. A. Cernicky. No. 1,362,779; Dec. 21; v. 281; p. 455.
Billing-form. W. D. Beymer. No. 1,335,420; Mar. 30; v. 272; p. 831.
Billiard-cue chalker. F. A. Lewis. No. 1,341,376; May 25; v. 274; p. 719.
Billiard-cue construction and attaching the cue-tip. O. C. Leger. No. 1,340,395; May 18; v. 274; p. 461.
Billiard-cue lock. A. C. Tyson. No. 1,342,517; June 8; v. 275; p. 229.
Billiard-cues, Fastener for the tips of. W. Fehlhaber and C. L. Smith. No. 1,362,483; Dec. 14; v. 287; p. 345.
Billiard-cues, Fastener for tips of. W. Fehlhaber and C. L. Smith. No. 1,354,387; Sept. 28; v. 278; p. 667.
Billiard-table-leveling device. W. A. Sabins, D. J. Donahue. No. 1,355,429; Oct. 12; v. 279; p. 246.
Billiard tables, Ball-receptacle for pocket-. J. S. Trew. No. 1,335,924; Apr. 6; v. 273; p. 41.
Billiard tables, Gully-boot for pocket-. T. R. Treiber. No. 1,361,930; Dec. 14; v. 281; p. 237.

Digitized by Google

Bin: *See*—
Grain-storage bin. Storage-bin.
Binder. C. E. Anderson. No. 1,327,186; Jan. 6; v. 270; p. 58.
Binder. J. A. Calvert. No. 1,337,193; Apr. 30; v. 273; p. 417.
Binder. G. G. H. Fritzsche. No. 1,327,992; Jan. 13; v. 270; p. 269.
Binder. A. E. Knoch. No. 1,359,606; Nov. 23; v. 280; p. 620.
Binder. F. L. Manny. No. 1,346,328; July 13; v. 276; p. 260.
Binder. F. L. Manny. No. 1,354,205; Sept. 28; v. 278; p. 630.
Binder. E. R. Wohler. No. 1,336,495; Apr. 13; v. 273; p. 208.
Binder attachment. T. S. Kilgore and G. W. Wilson. No. 1,357,711; Nov. 2; v. 280; p. 96.
Binder attachment. H. H. Roberts. No. 1,349,855; Aug. 17; v. 277; p. 461.
Binder attachment, Corn-. A. H. Meilicke. No. 1,342,640; June 8; v. 275; p. 253.
Binder attachment, Loose-leaf-. C. H. Buck. No. 1,332,159; Feb. 24; v. 271; p. 647.
Binder-board. F. E. Crompton. No. 1,350,141; Aug. 17; v. 277; p. 516.
Binder device. G. P. Wigginton. No. 1,338,658; Apr. 27; v. 273; p. 762.
Binder elements around receptacles, Implement for fastening and sealing. C. E. Wise. No. 1,362,068; Dec. 14; v. 281; p. 264.
Binder, Extension-cover loose-leaf. C. R. Hadley. No. 1,331,912; Feb. 24; v. 271; p. 602.
Binder extension, Loose-leaf-. L. E. Allison. No. 1,344,971; June 29; v. 275; p. 903.
Binder-lock. C. R. Fargo. No. 1,334,695; Mar. 23; v. 272; p. 633.
Binder, Loose-leaf. C. L. Baldauf. No. 1,344,934; June 29; v. 275; p. 897.
Binder, Loose-leaf. C. E. Beck. No. 1,341,456; May 25; v. 274; p. 735.
Binder, Loose-leaf. C. Cutler and D. F. Morand. No. 1,346,180; July 13; v. 276; p. 230.
Binder, Loose-leaf. R. L. Esson. No. 1,337,124; Apr. 13; v. 273; p. 329.
Binder, Loose-leaf. L. R. Lewis. No. 1,347,342; July 20; v. 276; p. 518.
Binder, Loose-leaf. W. J. McCarthy. No. 1,333,124; Mar. 9; v. 272; p. 282.
Binder, Loose-leaf. A. Rubin. No. 1,334,406; Mar. 23; v. 272; p. 580.
Binder, Loose-leaf. A. Rubin. No. 1,350,422; Aug. 24; v. 277; p. 617.
Binder, Loose-leaf. J. Schade. No. 1,342,766; June 8; v. 275; p. 279.
Binder, Loose-leaf. E. Shields. No. 1,331,588; Feb. 24; v. 271; p. 540.
Binder, Loose-leaf. F. Sutherland. No. 1,342,833; June 8; v. 275; p. 292.
Binder, Loose-leaf. D. Umanoff. No. 1,358,265; Nov. 9; v. 280; p. 266.
Binder, Magazine-. A. G. Johnson. No. 1,362,005; Dec. 14; v. 281; p. 252.
Binder, Package-. E. M. Barton. No. 1,334,512; Mar. 23; v. 272; p. 599.
Binder ring, Temporary-. H. T. Adams. No. 1,331,226; Feb. 17; v. 271; p. 452.
Binder, Temporary. W. Feldmann. No. 1,337,213; Apr. 20; v. 273; p. 420.
Binder, Temporary. G. W. Windisch. No. 1,339,249; May 4; v. 274; p. 110.
Binders, Bundle-carrier attachment for. J. G. Stewart. No. 1,340,088; May 11; v. 274; p. 345.
Binders, Leaf-projecting device for loose-leaf. W. J. McCarthy. No. 1,341,062; May 25; v. 274; p. 659.
Binders, Lock for temporary. J. K. Shuttleworth. No. 1,360,590; Nov. 30; v. 280; p. 883.
Binders, Locking mechanism for post-. F. L. Manny. No. 1,331,516; Feb. 24; v. 271; p. 526.
Binders, Shocker attachment for grain-. J. A. McElroy. No. 1,345,381; July 6; v. 276; p. 11.
Binders, Stooking attachment for. G. I. Park. No. 1,356,308; Oct. 19; v. 279; p. 459.
Binders, Twine-dipping attachment for self-. E. Severson. No. 1,329,681; Feb. 3; v. 271; p. 63.
Binders, Twine-treating attachment for. J. Rowe. No. 1,340,294; May 18; v. 274; p. 441.
Binding and suspending device. H. J. Smith. No. 1,359,117; Nov. 16; v. 280; p. 479.
Binding appliance. E. Pollard. No. 1,344,959; June 29; v. 275; p. 901.
Binding, Machine for making tubular. P. D. Redcay. No. 1,348,051; July 27; v. 276; p. 716.
Binding machine, Loose-leaf-. H. M. Crippen. No. 1,346,179; July 13; v. 276; p. 229.
Binding-post. F. G. Beetem. No. 1,346,525; July 13; v. 276; p. 298.
Binding-strip for loose-leaf ledgers and covering them. J. C. Dawson. No. 1,329,379; Feb. 3; v. 271; p. 7.
Binding-terminal. R. B. Benjamin and E. G. K. Anderson. No. 1,328,784; Jan. 20; v. 270; p. 455.
Binocular. R. and G. R. Meling. No. 1,338,241; Apr. 27; v. 273; p. 685.
Binoculars. M. Fujii. No. 1,358,721; Nov. 16; v. 280; p. 403.
Biplane, Staggered convergent. A. A. Merrill. No. 1,355,990; Oct. 19; v. 279; p. 395.
Bird-bath. A. H. Leverett. No. 1,354,113; Sept. 28; v. 278; p. 612.
Bird-cages, Wall-molding hanger for. A. Burrows. No. 1,347,009; July 20; v. 276; p. 453.
Bird-house. H. Ballin. No. 1,329,104; Jan. 27; v. 270; p. 545.
Bird-house. J. G. Shrock. No. 1,358,119; Nov. 9; v. 280; p. 237.
Bird-lime. Producing a working form of Turkish. C. A. Cleghorn. No. 1,356,267; Oct. 19; v. 279; p. 451.
Bird-trap. J. Sudul. No. 1,345,716; July 6; v. 276; p. 76.
Biscuit-stacking machine. F. Biando. No. 1,351,018; Aug. 31; v. 277; p. 795.
Biscuits, Machine for manufacturing filamentous. G. M. Anderson. No. 1,334,429; Mar. 23; v. 272; p. 584.
Bismuth, Extracting. J. F. Cullen and M. J. Udy. No. 1,360,271; Nov. 30; v. 280; p. 820.
Bismuth oxid, Making. E. R. Darling. No. 1,354,806; Oct. 5; v. 279; p. 72.
Bit: *See*—
Bridle-bit. Drilling-bit.
Drill-bit.
Bit-chuck. A. E. Carll. No. 1,363,953; Dec 28; v. 281; p. 722.
Bit-cleaner. S. Robichaux. No. 1,331,126; Feb. 17; v. 271; p. 484.
Bit socket or chuck. J. E. Kampe. No. 1,361,335; Dec. 7; v. 281; p. 71.
Bitstock. W. L. Kern. No. 1,341,180; May 25; v. 274; p. 681.
Bitstock feeding attachment. K. W. Karlsson. No. 1,339,958; May 11; v. 274; p. 321.
Bitumen, Molded form of. R. P. Perry. No. 1,327,354; Jan. 6; v. 270; p. 88.
Bituminous composition. W. C. Erler. No. 1,329,232; Jan. 27; v. 270; p. 569.
Bituminous composition. R. G. Osborne. No. 1,347,869; July 27; v. 276; p. 680.
Bituminous material, Composition of matter containing. J. M. Weiss. No. 1,340,855; May 18; v. 274; p. 547.
Bituminous matter from shale, Recovering. H. D. Ryan. No. 1,327,572; Jan. 6; v. 270; p. 129.
Blackboard. T. Mellor. No. 1,344,920; June 29; v. 275; p. 894.
Blade. J. F. Johnson. No. 1,335,002; Mar. 30; v. 272; p. 753.
Blade-mounting. H. F. Schmidt. No. 1,345,642; July 6; v. 276; p. 61.
Blade, Tempered. C. Napier. No. 1,352,140; Sept. 7; v. 278; p. 82.
Blades, Apparatus for making tempered. C. Napier. No. 1,350,618; Aug. 24; v. 277; p. 656.
Blades, Forming. M. H. Johanson. No. 1,356,628; Oct. 26; v. 279; p. 568.
Blades, Machine for grinding helical. C. H. Donner. No. 1,362,239; Dec. 14; v. 281; p. 298.
Blades, Making tempered. C. Napier. No. 1,333,767; Mar. 16; v. 272; p. 414.
Blank, Correspondence-. C. J. Bolgiano. No. 1,349,547; Aug. 10; v. 277; p. 328.
Blank-cutting apparatus. W. J. Kent. No. 1,332,848; Mar. 2; v. 272; p. 178.
Blank-cutting machine, Rotary. A. C. V. Malm. No. 1,363,526; Dec. 28; v. 281; p. 640.
Blank-finishing machine. F. Müller. No. 1,360,240; Nov. 23; v. 280; p. 746.
Blank-forming machine. J. W. Brundage. No. 1,338,120; Apr. 27; v. 273; p. 662.
Blank-positioning mechanism. W. Cameron. No. 1,346,589; July 13; v. 276; p. 310.
Blanks, Apparatus for assembling formed. H. Hermani and J. S. D. Auld. No. 1,331,503; Feb. 24; v. 271; p. 524.
Blanks, Apparatus for handling. E. E. Winkley. No. 1,355,296; Oct. 12; v. 279; p. 221.
Blanks, Machine and method for shaping and assembling. A. W. George. No. 1,346,490; July 13; v. 276; p. 291.
Blanket-fastener. W. A. Schleicher. No. 1,328,206; Jan. 13; v. 270; p. 310.
Blast-furnace. P. Haig. No. 1,335,494; Mar. 30; v. 272; p. 844.
Blast-furnace. J. Kennedy. No. 1,332,846; Mar. 2; v. 272; p. 128.
Blast-furnace. C. H. Mace. No. 1,334,310; Mar. 23; v. 272; p. 561.
Blast-furnace. C. Stein. No. 1,347,796; July 27; v. 276; p. 665.
Blast-furnace, Electric. J. Bibby and J. O. Boving. No. 1,336,017; Apr. 6; v. 273; p. 59.
Blasting-machine. G. Haddow. No. 1,363,585; Dec. 28; v. 281; p. 651.
Bleaching and cleaning composition. C. E. McAdam. No. 1,335,171; Mar. 30; v. 272; p. 785.
Bleaching apparatus. L. K. Black. No. 1,363,223; Dec. 28; v. 281; p. 581.

Digitized by Google

Bleaching apparatus, Steam. R. Rea and F. W. Waters. No. 1,328,397; Jan. 20; v. 270; p. 382.
Bleaching-boiler plant. C. Tütsch. No. 1,335,925; Apr. 6; v. 273; p. 42.
Bleaching composition. R. B. Kadish and T. W. Buscher. No. 1,327,394; Jan. 6; v. 270; p. 96.
Blending-machine. H. P. Fleming. No. 1,340,505; Aug. 10; v. 277; p. 320.
Blind attachment. L. A. De Villers. No. 1,333,906; Mar. 16; v. 272; p. 439.
Blind, Louvre-. P. H. Wilson and C. H. Sapper. No. 1,327,363; Jan. 6; v. 270; p. 90.
Blind slat and clip, Louvre-. P. H. Wilson and C. H. Sapper. No. 1,327,364; Jan. 6; v. 270; p. 90.
Blind-slot attachment. N. C. Rasmussen. No. 1,340,252; May 18; v. 274; p. 435.
Blind, Spring-roller. H. E. Fox. No. 1,342,017; June 1; v. 275; p. 79.
Blind, Venetian. J. Cahill. No. 1,342,527; June 8; v. 275; p. 231.
Blind, Window-. H. E. Morton. No. 1,360,560; Nov. 30; v. 280; p. 877.
Blinds, Bracket-support for roller-. W. Clayton. No. 1,351,286; Aug. 31; v. 277; p. 848.
Block: *See*—
- Absorbent block.
- Brake-block.
- Building-block.
- Building and paving block.
- Bunk-block.
- Cement block.
- Clothesline pulley-block.
- Collapsible block.
- Cutting-block.
- Cylinder-block.
- Educational block.
- Floor and paving block.
- Furnace rail-block.
- Hanger-block.
- Hat-block.
- Head-block.
- Hoisting-block.
- Household pounding-block.
- Keel-block.
- Paving-block.
- Polishing-block.
- Printing-block.
- Pulley-block.
- Segment-block.
- Sewer-block.
- Sheave-block.
- Silo-door block.
- Tackle-block.
- Toy building and design block.
- Traction-block.
- Tunnel-block.
- Wall-block.

Block. C. F. Blake. No. 1,358,276; Nov. 9; v. 280; p. 268.
Block. F. B. Mallory. No. 1,359,004; Nov. 23; v. 280; p. 679.
Block. B. N. Platt. No. 1,327,775; Jan. 13; v. 270; p. 229.
Block and lightning-arrester, Combination terminal. R. Connell. No. 1,328,720; Jan. 20; v. 270; p. 442.
Block-cutting machine, Plastic-. H. R. Straight. No. 1,332,693; Mar. 2; v. 272; p. 99.
Block-making machine. G. C. Cable. No. 1,344,860; June 29; v. 275; p. 883.
Block-making machine. E. A. Dewey. No. 1,346,640; July 13; v. 276; p. 321.
Block-mold. W. H. Patterson. No. 1,335,525; Mar. 30; v. 272; p. 850.
Block-mold. A. S. Tanner. No. 1,355,185; Oct. 12; v. 279; p. 109.
Block mold, Corner-. F. Creason. No. 1,347,015; July 20; v. 276; p. 454.
Block-molding machine. B. A. Richards. No. 1,355,619; Oct. 12; v. 279; p. 283.
Block-press. W. H. Shortell. No. 1,336,164; Apr. 6; v. 273; p. 87.
Block-press. E. R. Sutcliffe. No. 1,335,303; Mar. 30; v. 272; p. 809.
Block-resurfacing mechanism. R. C. Simmons. No. 1,341,765; June 1; v. 275; p. 30.
Block-signal system. C. M. Olsen. No. 1,355,251; Oct. 12; v. 279; p. 212.
Block-signal system. J. J. Ruddick. No. 1,336,486; Apr. 13; v. 273; p. 207.
Block-signaling system. R. J. Hewett and S. M. Ward, Jr. No. 1,362,942; Dec. 21; v. 281; p. 486.
Block-turning apparatus. T. Rotheram. No. 1,339,138; May 4; v. 274; p. 92.
Blocks, Making anchor-. G. P. Hemstreet. No. 1,327,710; Jan. 13; v. 270; p. 217.
Blood from meat, Device for expressing. C. A. Carlson. No. 1,360,882; Nov. 30; v. 280; p. 940.
Blood removing and etherizing apparatus. A. C. Hunt. No. 1,349,766; Aug. 17; v. 277; p. 444.
Blood-transfusion and aspirating apparatus, Combined. M. L. Janes. No. 1,346,127; July 13; v. 276; p. 220.
Blotter. J. Kromorous. No. 1,330,541; Feb. 10; v. 271; p. 255.
Blotter and pencil-sharpener, Combination. F. W. Aiken. No. 1,363,546; Dec. 28; v. 281; p. 644.
Blotter, Wrist-. G. Frankel. No. 1,351,378; Aug. 31; v. 277; p. 867.
Blotter, Wrist or hand. P. Orzel. No. 1,345,872; July 6; v. 276; p. 107.
Blotting appliance. J. H. Hedberg. No. 1,345,087; June 29; v. 275; p. 926.
Blotting-pad. A. Baumgartner. No. 1,338,669; May 4; v. 274; p. 4.
Blotting-pad or blotter. F. N. Crowell. No. 1,344,335; June 22; v. 275; p. 715.
Blow-irons, Apparatus for retaining and delivering. D. E. Gray. No. 1,357,231; Nov. 2; v. 280; p. 6.
Blow-out patch. C. A. Russell, Jr. No. 1,334,171; Mar. 16; v. 272; p. 490.
Blower. R. Rosner. No. 1,346,796; July 13; v. 276; p. 353.
Blower. A. A. Thommen. No. 1,327,218; Jan. 6; vol. 270; p. 64.
Blower, Boiler soot-. F. L. Dornbrook. No. 1,337,828; Apr. 20; v. 273; p. 537.
Blower for portable rivet hearths or forges. W. Walker. No. 1,356,674; Oct. 26; v. 279; p. 577.
Blower, Multistage centrifugal. T. W. Green. No. 1,350,724; Aug. 24; v. 277; p. 677.
Blower-pipe-raising device. J. A. Davidson. No.
Blower-pipe, windbreak, and silage-distributer. A. M. Tamm and J. Tennessen, Jr. No. 1,353,674; Sept. 21; v. 278; p. 480.
1,359,876; Nov. 23; v. 280; p. 674.
Blower, Rotary. I. H. Spencer. No. 1,338,466; Apr. 27; v. 273; p. 727.
Blower, Steam-turbine. W. McClave. No. 1,328,285; Jan. 20; v. 270; p. 361.
Blower, Steam-turbine. W. McClave. No. 1,328,286; Jan. 20; v. 270; p. 361.
Blowpipe apparatus. W. L. Herron. No. 1,358,637; Nov. 9; v. 280; p. 341.
Blowpipe, Cutting-. G. H. Zouck. No. 1,332,281; Mar. 2; v. 272; p. 20.
Blowpipe for blast-furnaces. E. L. Ives. No. 1,362,702; Dec. 21; v. 281; p. 440.
Blowpipe for welding-machines. J. Harris. No. 1,359,504; Nov. 23; v. 280; p. 600.
Blowpipe-tips, Making. R. F. Russell. No. 1,344,964; June 29; v. 275; p. 902.
Board: *See*—
- Art-board.
- Automobile floor-board.
- Automobile instrument-board.
- Binder-board.
- Bread-board.
- Bread-slicing board.
- Composition board.
- Compound board.
- Diving spring-board.
- Drafting-board.
- Drain-board.
- Drawing-board.
- Drip-board.
- Duplex board.
- Game-board.
- Ironing-board.
- Keyboard.
- Panel-board.
- Paper-board.
- Paper-hanger's cutting board.
- Plaster-board.
- Reinforced hollow board.
- Sounding-board.
- Switchboard.
- Tail-board.
- Teeter-board.
- Toy pin-board.
- Sound-board.
- Sketching-board.
- Scoop-board.
- Sign-board.
- Violin finger-board.
- Washboard.

Board and treating same, Composite. C. G. Robinson. No. 1,334,637; Mar. 23; v. 272; p. 623.
Board-filling machine. C. A. Brewer. No. 1,339,595; May 11; v. 274; p. 252.
Boards, Means for fastening plaster-. C. G. Shuman. No. 1,327,741; Jan. 13; v. 270; p. 222.
Boards, Tail-stretching mechanism for bosom-. G. Binder. No. 1,329,880; Feb. 3; v. 271; p. 100.
Boarding-machine. C. A. Rausch. No. 1,342,760; June 8; v. 275; p. 277.
Boat: *See*—
- Collapsible boat.

Boat. A. J. Bottorff. No. 1,330,109; Feb. 10; v. 271; p. 175.
Boat. G. F. Brunjes. No. 1,357,027; Oct. 26; v. 279; p. 646.
Boat. A. L. Nichols. No. 1,335,072; Mar. 30; v. 272; p. 766.
Boat. C. J. J. L. de Vos. No. 1,363,235; Dec. 28; v. 281; p. 584.
Boat, Aeroplane speed-. R. N. Doney. No. 1,333,799; Mar. 16; v. 272; p. 420.
Boat and locking and launching mechanism, Torpedo-. W. R. Shearer. No. 1,357,526; Nov. 2; v. 280; p. 61.
Boat and trunk combined. E. R. Thomas. No. 1,345,416; July 6; v. 276; p. 18.
Boat attachment. E. B. Kitchen and J. D. Price. No. 1,331,202; Feb. 17; v. 271; p. 447.
Boat-bumper. L. Porteous. No. 1,361,902; Dec. 14; v. 281; p. 231.
Boat, Collapsible. L. Ferrari. No. 1,359,708; Nov. 23; v. 280; p. 658.
Boat, Collapsible. A. E. Ford. No. 1,333,109; Mar. 9; v. 272; p. 229.
Boat, Collapsible. V. Holmstrom. No. 1,359,806; Nov. 23; v. 280; p. 660.
Boat construction, Flying-. G. H. Curtiss and H. Kleckler. No. 1,351,742; Sept. 7; v. 278; p. 5.
Boat-davit. W. F. Mills. No. 1,329,921; Feb. 3; v. 271; p. 108.
Boat detector, Sunken-. E. G. Haun. No. 1,350,224; Aug. 17; v. 277; p. 532.
Boat drive and control. J. Flisek. No. 1,360,105; Nov. 23; v. 280; p. 719.
Boat, Electrically-propelled. M. R. Lolja. No. 1,355,156; Oct. 12; v. 279; p. 193.
Boat, Flying-. H. Kleckler. No. 1,336,634; Apr. 13; v. 273; p. 235.

Digitized by Google

Boat hull, Flying-. G. H. Curtiss. No. 1,329,336; Jan. 27; v. 270: p. 587.
Boat, Knockdown. L. Di Carlo. No. 1,333,248; Mar. 9; v. 272; p. 255.
Boat-launching apparatus. C. H. Fuller. No. 1,339,647; May 11; v. 274; p. 262.
Boat-listing apparatus. A. McDowell. No. 1,354,204; Sept. 28; v. 278; p. 630.
Boat, Metal. F. Sweet. No. 1,358,479; Nov. 9; v. 280; p. 310.
Boat or other vessel, Sheet-metal. W. Gardner. No. 1,340,441; May 18; v. 274; p. 470.
Boat-sails, Lath for. F. Ljungström. No. 1,362,950; Dec. 21; v. 281; p. 487.
Boat, Non-sinkable. J. J. Brosnan. No. 1,355,937; Oct. 19; v. 279; p. 385.
Boat or other light marine vessel, Flying- H. Scott-Paine. No. 1,353,669; Sept. 21; v. 278; p. 479.
Boat, Salvage-. J. Begg. No. 1,337,035; Apr. 13; v. 273; p. 313.
Boat, Sectional. A. J. Lowdermilk. No. 1,337,781; Apr. 20; v. 273; p. 528.
Boat, Submarine. P. B. Brill. No. 1,330,755; Feb. 10; v. 271; p. 295.
Boat, Submarine. H. E. Montague. No. 1,335,518; Mar. 30; v. 272; p. 849.
Boat, Submarine. C. H. Wagner. No. 1,363,937; Dec. 28; v. 281; p. 719.
Boat, Swimming-. A. Gardellis. No. 1,354,435; Sept. 28; v. 278; p. 676.
Boat-tackles, Locking and releasing device for. G. Hilgers. No. 1,331,432; Feb. 17; v. 271; p. 490.
Boat, Torpedo-. W. O. Cutter. No. 1,355,894; Oct. 19; v. 279; p. 377.
Boat, Torpedo-. W. B. Shearer. No. 1,356,791; Oct. 26; v. 279; p. 600.
Boat, Torpedo-. W. B. Shearer. No. 1,357,527; Nov. 2; v. 280; p. 61.
Boat, Traction-. J. B. MacDonald. No. 1,345,326; June 29; v. 275; p. 972.
Boat, Tripod flying-. G. H. Curtiss. No. 1,358,527; Nov. 9; v. 280; p. 319.
Boat, Underwater. J. A. Archibald. No. 1,348,686; Aug. 3; v. 277; p. 108.
Boats, Adjustable power-rudder for small. W. F. A. Buchner. No. 1,330,842; Feb. 17; v. 271; p. 379.
Boats and unloading mechanism therefor, Cargo storage for S. T. Crapo and J. R. Jenkins. No. 1,351,926; Aug. 31; v. 277; p. 797.
Boats, Device for the lowering of life-. J. de Beer. No. 1,355,655; Oct. 12; v. 279; p. 289.
Boats, Fastening device for life-. C. V. Bodom. No. 1,349,317; Aug. 10; v. 277; p. 283.
Boats, Hand-operated power mechanism for small. A. Pann. No. 1,340,976; May 25; v. 274; p. 642.
Boats, Hydroplane-operating mechanism for submarine. J. Barraja-Frauenfelder. No. 1,330,754; Feb. 10; v. 271; v. 295.
Boats, Means for tracing and locating submarine. P. R. Bassett and E. A. Sperry. No. 1,333,238; Mar. 9; v. 272; p. 253.
Boats, Means to propel. A. L. P. Talbot. No. 1,340,920; May 25; v. 274; p. 630.
Boats, Propelling means for. A. R. Bauer. No. 1,363,078; Dec. 21; v. 281; p. 513.
Boat's propulsion mechanism. J. J. La Taste. No. 1,329,778; Feb. 3; v. 271; p. 80.
Boats, Sounding apparatus for submarine. S. B. Smith. No. 1,359,763; Nov. 23; v. 280; p. 652.
Boats, Stabilizer for. J. J. Ferko. No. 1,336,688; Apr. 13; v. 273; p. 246.
Boats, Steering-gear for motor-. J. E. and T. Thorny croft. No. 1,362,450; Dec. 14; v. 281; p. 339.
Bobbin and spindle connector. C. Nordell. No. 1,343,839; June 15; v. 275; p. 554.
Bobbin-cleaning machine. C. L. Hicks. No. 1,339,888; May 11; v. 274; p. 308.
Bobbin, spindle and support. G. W. Frisbie. No. 1,358,630; Nov. 9; v. 280; p. 340.
Bobbin-stripper. G. F. Rahan and A. St. Onge. No. 1,349,448; Aug. 10; v. 277; p. 309.
Bobbin, Weft-. L. B. Jenckes. No. 1,337,706; Apr. 20; v. 273; p. 514.
Bobbin-winding machine. F. L. Harmon. No. 1,356,357; Oct. 19; v. 279; p. 460.
Bodies, Forming composite. D. A. Dickey. No. 1,352,436; Sept. 14; v. 278; p. 174.
Bodkin. L. M. Matthael. No. 1,337,480; Apr. 20; v. 273; p. 471.
Bodkin, needle, &c. F. L. Bennett. No. 1,356,124; Oct. 19; v. 279; p. 423.
Body-brace. J. R. Holliday. No. 1,347,037; July 20; v. 276; p. 459.
Body protector or armor. W. Moore. No. 1,333,488; Mar. 9; v. 272; p. 291.
Body-rubbing device. D. E. Riley. No. 1,345,026; June 29; v. 275; p. 914.
Body-stabilizer. C. Munter. No. 1,342,566; June 8; v. 275; p. 239.
Bogies, Construction of. E. Schneider. No. 1,331,128; Feb. 17; v. 271; p. 434.

Boiler: *See*—
Canning-boiler. Milk-boiler.
Clothes-boiler. Oil-boiler.
Combination-boiler. Oil-burning boiler.
Egg-boiler. Pipe-boiler.
Food-boiler. Signaling-boiler.
Gas-heated boiler. Steam-boiler.
Hot-water boiler. Tubular boiler.
Locomotive-boiler. Waste-heat boiler.
Marine boiler. Water-tube boiler.

Boiler. C. L. Cook. No. 1,355,125; Oct. 12; v. 279; p. 186.
Boiler. M. Folkush. No. 1,352,505; Sept. 14; v. 278; p. 187.
Boiler. W. W. Gillette. No. 1,342,672; June 8; v. 275; p. 259.
Boiler. G. S. Kent. No. 1,355,049; Oct. 5; v. 279; p. 119.
Boiler. J. M. McClellon. No. 1,341,475; May 25; v. 274; p. 739.
Boiler. J. P. Perry. No. 1,350,565; Aug. 24; v. 277; p. 646.
Boiler. R. D. Reed. No. 1,334,676; Mar. 23; v. 272; p. 680.
Boiler. A. Tomaszak. No. 1,351,142; Aug. 31; v. 277; p. 819.
Boiler. H. V. Wille. No. 1,363,944; Dec. 28; v. 281; p. 721.
Boiler. J. Zelkowski. No. 1,337,810; Apr. 20; v. 273; p. 533.
Boiler and firebox construction. J. M. McClellon. No. 1,341,474; May 25; v. 274; p. 739.
Boiler and furnace, Combination. J. W. Allan. No. 1,337,632; Apr. 20; v. 273; p. 499.
Boiler and radiator, Combined. A. M. Mertzanoff. No. 1,334,667; Mar. 23; v. 272; p. 628.
Boiler and still, Combination. R. S. Mears. No. 1,339,470; May 11; v. 274; p. 228.
Boiler and tank spud. A. G. Suttill. No. 1,360,815; Nov. 30; v. 280; p. 927.
Boiler arch and wall and means for supporting same. L. S. Shaw. No. 1,345,410; July 6; v. 276; p. 17.
Boiler attachment. F. W. Pratt. No. 1,331,525; Feb. 24; v. 271; p. 528.
Boiler attachment. J. Smoter. No. 1,344,829; June 29; v. 275; p. 878.
Boiler blow-off. G. Purvis. No. 1,351,586; Aug. 31; v. 277; p. 908.
Boiler circulator, Domestic-. F. G. Koper. No. 1,333,319; Mar. 9; v. 272; p. 268.
Boiler-cleaner. W. J. Bauer. No. 1,331,452; Feb. 17; v. 271; p. 494.
Boiler-cleaner. L. Beebee and F. Bowers. No. 1,343,654; June 15; v. 275; p. 517.
Boiler-closure for hand-holes. H. A. Jochumsen. No. 1,349,510; Aug. 10; v. 277; p. 321.
Boiler compounds, Feeder for. E. F. Stewart. No. 1,335,802; Apr. 6; v. 273; p. 19.
Boiler connection. O. F. Bennett. No. 1,334,072; Mar. 16; v. 272; p. 471.
Boiler-covering, Removable. J. C. Workman. No. 1,363,173; Dec. 21; v. 281; p. 531.
Boiler deflector-wall. H. B. Bradford. No. 1,355,807; Oct. 19; v. 279; p. 360.
Boiler economizer and operating same, Steam-. D. S. Jacobus. No. 1,341,213; May 25; v. 274; p. 688.
Boiler-feed, Check-valve for. J. E. A. Miller. No. 1,357,792; Nov. 2; v. 280; p. 113.
Boiler-feeder. A. J. Smithers. No. 1,363,283; Dec. 28; v. 281; p. 593.
Boiler-feeder. A. J. Smithers. No. 1,363,284; Dec. 28; v. 281; p. 593.
Boiler-flue. R. Shelton. No. 1,330,910; Feb. 17; v. 271; p. 393.
Boiler, Food-. S. and J. Gumula. No. 1,362,862; Dec. 21; v. 281; p. 471.
Boiler-furnace. B. Greenfield No. 1,338,438; Apr. 27; v. 273; p. 722.
Boiler-furnace. L. G. Smith. No. 1,351,802; Sept 7; v. 278; p. 17.
Boiler furnace, Steam-. L. E. Connelly. No. 1,333,652; Mar. 16; v. 272; p. 393.
Boiler-headers, Closure for. V. L. Emerson. No. 1,352,254; Sept. 7; v. 278; p. 104.
Boiler-headers, Closure for openings in. T. E. Murray. No 1,350,832; Aug. 24; v. 277; p. 697.
Boiler-headers, Closure for openings in. T. E. Murray. No. 1,363,153; Dec. 21; v. 281; p. 528.
Boiler-patch. E. Todd. No. 1,327,846; Jan. 13; v. 270; p. 242.
Boiler plant. L. W. Mendell. No. 1,334,548; Mar. 23; v. 272; p. 607.
Boiler-retarders, Strip-pulling device for machines for making. M. C. Hutchinson. No. 1,333,254; Mar. 9; v. 272; p. 256.
Boiler-sections, Method and apparatus for. B. Broido. No. 1,331,047; Feb. 17; v. 271; p. 420.
Boiler-setting. L. Nevers and F. Whitbeck. No. 1,327,727; Jan. 13; v. 270; p. 220.
Boiler-sheets, Applying and securing staybolt-sleeves to. F. K. Landgraf. No. 1,382,285; Sept. 7; v. 278; p. 110.

Digitized by Google

Boiler-skimmer. E. Rankin. No. 1,363,269; Dec. 28; v. 281; p. 591.

Boiler-spouts, Water-baffling means for. D. H. Young. No. 1,333,052; Mar. 9; v. 272; p. 219.

Boiler-stand. O. S. Burman. No. 1,346,875; July 20; v. 276; p. 426

Boiler-stand. A. T. Fowles. No. 1,332,119; Feb. 24; v. 271; p. 640.

Boiler-tube and combustion-chamber cleaner. J. Bennett. No. 1,340,144; May 18; v. 274; p. 414.

Boiler-tube and end-plate connection. C. S. Coleman. No. 1,340,118; May 11; v. 274; p. 351.

Boiler-tube cleaner. S. J. Herman and C. M. MacKenzie. No. 1,337,557; Apr. 20; v. 273; p. 485.

Boiler-tube cleaner. J. Zilliox. No. 1,363,301; Dec. 28; v. 281; p. 597.

Boiler-tube cleaner, Duplex-acting percussion. W. Burlingham. No. 1,339,098; May 4; v. 274; p. 84.

Boiler-tube cleaners, Cutter-head for. P. J. Darlington. No. 1,363,232; Dec. 28; v. 281; p. 583.

Boiler-tube end section. C. S. Coleman. No. 1,333,467; Mar. 9; v. 272; p. 297.

Boiler-tube end section. C. S. Coleman. No. 1,339,739; May 11; v. 274; p. 279.

Boiler-unit-assembling rack. J. Pierce, Jr. No. 1,350,236; Aug. 17; v. 277; p. 534.

Boiler washing and filling system. F. W. Miller. No. 1,330,085; Feb. 10; v. 271; p. 170.

Boiler washing and filling system. F. W. Miller. No. 1,357,717; Nov. 2; v. 280; p. 98.

Boiler with superheater. B. Broido. No. 1,351,154; Aug. 31; v. 277; p. 821.

Boiler with superheaters. B. Broido. No. 1,363,714; Dec. 28; v. 281; p. 676.

Boilers, Apparatus for returning water to. D. N. Crosthwait, Jr. No. 1,353,457; Sept. 21; v. 278; p. 435.

Boilers, Apparatus for returning water of condensation to steam-. J. J. and G. E. Royle. No. 1,333,735; Mar. 16; v. 272; p. 408.

Boilers, Automatic feeding governor for steam-. L. Moeglin. No. 1,333,669; Mar. 16; v. 272; p. 396.

Boilers, Automatic regulator for steam-. N. A. Miner. No. 1,335,008; Mar. 30; v. 272; p. 754.

Boilers, Baffle for water-tube. E. Kidwell. No. 1,349,574; Aug. 17; v. 277; p. 407.

Boilers, Baffle-plate for. T. H. Burton. No. 1,334,937; Mar. 23; v. 272; p. 682.

Boilers, Circulation in water-tube. H. E. Yarrow. No. 1,350,200; Aug. 17; v. 277; p. 528.

Boilers, Economizer for transverse-drum. H. J. Kerr. No. 1,345,369; July 6; v. 276; p. 9.

Boilers, Feed-water heater for locomotive-. A. R. Hodges. No. 1,335,439; Mar. 30; v. 272; p. 834.

Boilers, Fire-box for. C. Ducas. No. 1,353,640; Sept. 21; v. 278; p. 473.

Boilers, Flexible staybolt for steam-. A. C. Negus. No. 1,348,657; Aug. 3; v. 277; p. 103.

Boilers, Float-valve for steam-. E. M. McMillan. No. 1,354,619; Oct. 5; v. 279; p. 35.

Boilers, Fuel-control system for. W. A. and J. A. Doble. No. 1,359,042; Nov. 16; v. 280; p. 465.

Boilers, Header for tubular. J. J. Cain. No. 1,337,590; Apr. 20; v. 273; p. 492.

Boilers, Installation of staybolt structures for. J. R. Flannery. No. 1,359,588; Nov. 23; v. 280; p. 617.

Boilers, Manufacture of stay-bolts for. J. R. Flannery. No. 1,336,213; Apr. 6; v. 273; p. 96.

Boilers, Removable plug for. W. H. Winslow. No. 1,348,915; Aug. 10; v. 277; p. 204.

Boilers, Safety-valve for water-tube. J. Stasinski. No. 1,356,836; Oct. 26; v. 279; p. 609.

Boilers, Staybolt structure for. J. R. Flannery and E. I. Dodds. No. 1,354,609; Oct. 5; v. 279; p. 33.

Boilers, Staybolt structure for steam-. J. R. Flannery. No. 1,359,587; Nov. 23; v. 280; p. 616.

Boilers, &c., Suspended arch for. W. E. Gehring. No. 1,328,511; Jan. 20; v. 270; p. 404.

Boilers, Washout-plug for. F. Crist. No. 1,342,740; June 8; v. 275; p. 273.

Boilers, Water-heater for. P. A. Petrucci. No. 1,346,334; July 13; v. 276; p. 261.

Boiling indirectly. R. H. Hult. No. 1,337,704; Apr. 20; v. 273; p. 514.

Boll-breaking and cotton-separating machine. J. E. Mitchell. No. 1,332,911; Mar. 9; v. 272; p. 192.

Boll-weevil catcher. J. M. Stukes. No. 1,334,973; Mar. 30; v. 272; p. 747.

Boll-weevil catcher. J. H. Walker. No. 1,363,026; Dec. 21; v. 281; p. 503.

Boll-weevil device. L. F. Reeder and W. B. Jackson No. 1,363,998; Dec. 28; v. 281; p. 731.

Boll-weevil moths, Device for destroying. D. D. Dailey. No. 1,341,706; June 1; v. 275; p. 18.

Boll-weevil trap. T. B. Stevenson. No. 1,331,946; Feb. 24; v. 271; p. 608.

Boll-weevils, Apparatus for gathering. G. E. Hodges. No. 1,356,864; Oct. 26; v. 279; p. 614.

Bolster extension. J. N. Tree. No. 1,337,416; Apr. 20; v. 273; p. 459.

Bolt: *See*—

Anchor-bolt.	Panic-bolt.
Clamp-bolt.	Rail-bolt.
Door-bolt.	Sectional bolt.
Double-throw bolt.	Securing-bolt.
Expansion-bolt.	Staybolt.
Lubricating shackle-bolt.	Surface bolt.
Oil-bolt.	Toggle-bolt.

Bolt. B. A. Lindemer. No. 1,357,291; Nov. 2; v. 280; p. 18.

Bolt. C. A. McCutcheon. No. 1,362,633; Dec. 21; v. 281; p. 426.

Bolt. J. R. McKinley. No. 1,348,727; Aug. 3; v. 277; p. 115.

Bolt. I. O. Musgjerd. No. 1,362,501; Dec. 14; v. 281; p. 349.

Bolt. E. J. and P. J. Scray. No. 1,361,627; Dec. 7; v. 281; p. 131.

Bolt. C. Selle. No. 1,335,613; Mar. 30; v. 272; p. 866.

Bolt-anchor. J. Kennedy. No. 1,352,199; Sept. 7; v. 278; p. 93.

Bolt-anchor. J. Kennedy. No. 1,352,200; Sept. 7; v. 278; p. 93.

Bolt-anchor. J. Kennedy. No. 1,352,201; Sept. 7; v. 278; p. 93.

Bolt and nut assembling machine. W. R. Hull. No. 1,358,553; Nov. 9; v. 280; p. 324.

Bolt and nut lock. P. M. Kellogg. No. 1,355,342; Oct. 12; v. 279; p. 230.

Bolt and nut lock. W. W. Stillwell. No. 1,358,795; Nov. 16; v. 280; p. 418.

Bolt-fastening. W. E. Windsor. No. 1,346,578; July 13; v. 276; p. 309.

Bolt-fastening means. P. E. Waldmann. No. 1,356,843; Oct. 26; v. 279; p. 610.

Bolt-fastening mechanism. J. Riise. No. 1,355,503; Oct. 12; v. 279; p. 261.

Bolt-holder. W. J. Dehn. No. 1,334,352; Mar. 23; v. 272; p. 570.

Bolt-holder. W. S. Nicholas. No. 1,335,386; Mar. 30; v. 272; p. 824.

Bolt-holder. F. Wize. No. 1,355,560; Oct. 12; v. 279; p. 272.

Bolt holder, Wall-. J. J. Mulkern. No. 1,349,977; Aug. 17; v. 277; p. 485.

Bolt-keeper. W. F. Wagner. No. 1,353,440; Sept. 21; v. 278; p. 432.

Bolt-lock. S. Munson. No. 1,346,907; July 20; v. 276; p. 433.

Bolt-machine. J. A. Eden, Jr. No. 1,361,572; Dec. 7; v. 281; p. 120.

Bolt mechanism, Compound dead-. S. Segal. No. 1,332,958; Mar. 9; v. 272; p. 201.

Bolt-threading machine. H. Crehan. No. 1,327,312; Jan. 6; v. 270; p. 80.

Bolt-washer. L. M. Monteath. No. 1,356,873; Oct. 26; v. 279; p. 616.

Bolts, Making. J. B. Heller. No. 1,343,720; June 15; v. 275; p. 530.

Bolts, Manufacture of. G. Robergel. No. 1,346,058; July 6; v. 276; p. 144.

Bolting-machine. S. Snyder and L. C. Winegardner. No. 1,327,686; Jan. 13; v. 270; p. 202.

Bolting-up and plate-tightening machine. J. P. McBride. No. 1,353,600; Sept. 21; v. 278; p. 464.

Bolting-up device. C. Evensen. No. 1,343,667; June 15; v. 275; p. 519.

Bolting-up device. J. W. Warren. No. 1,348,339; Aug. 3; v. 277; p. 41.

Bolting-up device. F. F. Whitmore. No. 1,340,470; May 18; v. 274; p. 475.

Bomb. J. H. Clary. No. 1,345,130; June 29; v. 275; p. 934.

Bomb. C. R. Keeran. No. 1,340,546; May 18; v. 274; p. 489.

Bomb. W. O. Spencer. No. 1,335,996; Apr. 6; v. 273; p. 55.

Bomb. F. M. Thomas. No. 1,329,443; Feb. 3; v. 271; p. 19.

Bomb. F. M. Thomas. No. 1,333,786; Mar. 16; v. 272; p. 417.

Bomb-dropper. W. Chmielarski. No. 1,353,518; Sept. 21; v. 278; p. 447.

Bomb-dropping device. J. H. Barr. No. 1,339,432; May 11; v. 274; p. 220.

Bomb-dropping mechanism. E. V. Stoddard. No. 1,345,276; June 29; v. 275; p. 963.

Bomb holder, Rocket-. E. M. de Sherbinin. No. 1,332,716; Mar. 2; v. 272; p. 103.

Bomb, Submarine-destroying. J. A. Steinmetz. No. 1,340,014; Aug. 10; v. 277; p. 228.

Bomb-thrower. T. E. Spencer. No. 1,342,357; June 1; v. 275; p. 145.

Bomb-thrower and bomb to be thrown thereby. E. Piersantelli. No. 1,359,425; Nov. 16; v. 280; p. 540.

Bomb-throwing machine. W. Butler. No. 1,344,378; June 22; v. 275; p. 724.

Bombs, Hammer-releases for double-chamber-type. S. Thompson. No. 1,364,008; Dec. 28; v. 281; p. 733.

Bombs or other devices, Device for dropping. F. C. Graf and N. J. Zwosta. No. 1,335,283; Mar. 30; v. 272; p. 805.

Digitized by Google

Bombing device. T. P. Thorleipson. No. 1,364,009; Dec. 28; v. 281; p. 733.
Bone-holding device. M. Theimer. No. 1,342,515; June 8; v. 275; p. 229.
Bones, Apparatus for binding fractured. A. W. Collins. No. 1,346,940; July 20; v. 276; p. 439.
Bonnet. J. G. Dupont. No. 1,350,712; Aug. 24; v. 277; p. 674.
Bonnet for railway-signal fusee-caps and making it. H. O. Bemisderfer. No. 1,327,899; Jan. 13; v. 270; p. 252.
Book. A. T. Mason. No. 1,353,774; Sept. 21; v. 278; p. 499.
Book, Account-. A. Heisterkamp. No. 1,343,082; June 8; v. 275; p. 341.
Book and leaf therefor, Loose-leaf. G. H. Potwin. No. 1,358,986; Nov. 16; v. 280; p. 455.
Book binding or covering machine, Intermittent driving mechanism for. A. Bredenberg. No. 1,347,492; July 27; v. 276; p. 604.
Book, Check-. J. E. Allen. No. 1,336,804; Apr. 13; v. 273; p. 268.
Book, Check-. J. E. Bridgers. No. 1,334,593; Mar. 23; v. 272; p. 615.
Book, Check-. M. P. Exline. No. 1,354,960; Oct. 5; v. 279; p. 102.
Book, Check-. B. W. Lynch. No. 1,329,002; Jan. 27; v. 270; p. 526.
Book, Class-record. M. O. Billow. No. 1,327,610; Jan. 13; v. 270; p. 198.
Book, Commutation-. J. E. C. Swann. No. 1,353,189; Sept. 21; v. 278; p. 383.
Book, Cook-. D. L. Herrmann and A. A. Johnson. No. 1,354,395; Sept. 28; v. 278; p. 668.
Book-cover. F. J. Gregory. No. 1,356,445; Oct. 19; v. 279; p. 485.
Book-cover, Adjustable. T. L. Toland. No. 1,354,354; Sept. 28; v. 278; p. 660.
Book-cover and wallet, Collector's. T. E. Brenan. No. 1,359,319; Nov. 16; v. 280; p. 518.
Book-cover-making machine. J. Satenstein. No. 1,328,767; Jan. 20; v. 270; p. 452.
Book-covers, Machine for making. T. Dean. No. 1,336,944; Apr. 13; v. 273; p. 296.
Book-holder. E. J. Boyer. No. 1,336,275; Apr. 6; v. 273; p. 108.
Book-holder. D. L. Rand. No. 1,330,004; Feb. 3; v. 271; p. 123.
Book-holder and line-guide. C. J. Hilkey. No. 1,357,053; Oct. 26; v. 279; p. 651.
Book holder, Copy-. P. Stoelzel. No. 1,343,527; June 15; v. 275; p. 491.
Book-holder for beds, &c. A. A. Connors. No. 1,347,471; July 20; v. 276; p. 543.
Book-holding device. D. R. Barry. No. 1,337,582; Apr. 20; v. 273; p. 490.
Book-lock. S. Salop. No. 1,349,857; Aug. 17; v. 277; p. 462.
Book, Loose-leaf. E. A. P. Wolf. No. 1,343,103; June 8; v. 275; p. 346.
Book, Loose-leaf and carbon. G. A. Ducharme. No. 1,357,766; Nov. 2; v. 280; p. 107.
Book on binder, Loose-leaf. G. A. Bennett. No. 1,363,385; Dec. 28; v. 281; p. 612.
Book or dictionary, Reference-. A. Rodow. No. 1,358,331; Nov. 9; v. 280; p. 279.
Book or copy holder. D. M. Hynds. No. 1,356,769; Oct. 26; v. 279; p. 595.
Book or pad. S. E. Brick. No. 1,341,782; June 1; v. 275; p. 34.
Book or pamphlet covering machine. C. A. Juengst. No. 1,346,799; July 13; v. 276; p. 353.
Book or paper binder. F. G. Davison. No. 1,334,020; Mar. 16; v. 272; p. 462.
Book or sheet-music opener. M. A. Reilly. No. 1,345,336; June 29; v. 275; p. 974.
Book, Pass-. L. P. Johnson. No. 1,363,120; Dec. 21; v. 281; p. 521.
Book, Pass-. T. P. Martin, Jr. No. 1,352,907; Sept. 14; v. 278; p. 269.
Book, Printed. H. W. Haight. No. 1,340,713; May 18; v. 274; p. 521.
Book-protector. A. E. Miller. No. 1,337,612; Apr. 20; v. 273; p. 496.
Book-rack. F. Schimmel. No. 1,336,981; Apr. 13; v. 273; p. 302.
Book, Record-. E. H. Clark. No. 1,353,315; Sept. 21; v. 278; p. 407.
Book, Record and reference. A. R. Towers. No. 1,329,562; Feb. 3; v. 271; p. 41.
Book-rest. H. W. Bromley. No. 1,360,718; Nov. 30; v. 280; p. 908.
Book-rest. M. G. Hoppin. No. 1,334,373; Mar. 23; v. 272; p. 572.
Book-shelf. W. A. Borden. No. 1,340,317; May 18; v. 274; p. 445.
Book, Spoon and spinner. R. C. Stewart. No. 1,339,231; May 4; v. 274; p. 108.
Book-trimmer. E. R. Kast. No. 1,327,915; Jan. 13; v. 270; p. 255.
Books, Blotting attachment for check-. A. Warshauer. No. 1,339,937; May 11; v. 274; p. 317.
Books, Case-holder for. A. Engel. No. 1,330,250; Feb. 10; v. 271; p. 201.
Books, Device for securing extra leaves in. F. L. Wheeler. No. 1,333,521; Mar. 9; v. 272; p. 306.
Books, Page arrangement for. D. I. Winslow. No. 1,353,371; Sept. 21; v. 278; p. 418.
Bookbinder. N. Dupuis. No. 1,330,852; Feb. 17; v. 271; p. 381.
Bookbinding. A. Cobb. No. 1,336,198; Apr. 6; v. 273; p. 93.
Bookbinding. J. C. Dawson. No. 1,358,421; Nov. 9; v. 280; p. 299.
Bookbinding. J. M. Myers. No. 1,341,575; May 25; v. 274; p. 758.
Bookbinding. L. D. Sibert. No. 1,332,767; Mar. 2; v. 272; p. 113.
Bookbinding-machine. C. F. McBee. No. 1,333,123; Mar. 9; v. 272; p. 232.
Bookbinding-machine attachment. J. P. Normann. No. 1,351,060; Aug. 31; v. 277; p. 803.
Bookbinding or covering machine. A. Bredenberg. No. 1,355,445; Oct. 12; v. 279; p. 249.
Bookcase. J. F. Arnold. No. 1,342,083; June 1; v. 275; p. 92.
Bookcase, Portable. G. Perry. No. 1,329,429; Feb. 3; v. 271; p. 16.
Bookcase, Sectional. H. B. Hunt. No. 1,352,195; Sept. 7; v. 278; p. 92.
Bookkeeping, Posting-tray for machine-. E. L. Cathcart. No. 1,348,085; July 27; v. 276; p. 723.
Booklet, Banker's. G. W. Tibbetts. No. 1,331,598; Feb. 24; v. 271; p. 542.
Bookmark. H. W. Denhard. No. 1,334,525; Mar. 23; v. 272; p. 602.
Bookmark. J. J. Vanderveer. No. 1,346,729; July 13; v. 276; p. 338.
Bookmark, Adjustable. N. Alpert and D. Goldin. No. 1,355,025; Oct. 5; v. 279; p. 114.
Bookmarker. R. N. Frame. No. 1,338,861; May 4; v. 274; p. 39.
Bookmarker. A. C. Sprague. No. 1,346,856; July 20; v. 276; p. 422.
Bookrack. M. G. Markham. No. 1,363,138; Dec. 21; v. 281; p. 525.
Bookstand, Collapsible. P. Pienta. No. 1,341,195; May 25; v. 274; p. 684.
Boom-stick and preparing same. J. G. Anderson. No. 1,335,416; Mar. 30; v. 272; p. 880.
Booster system. F. W. Walker. No. 1,335,541; Mar. 30; v. 272; p. 853.
Boot. A. S. Christie. No. 1,360,177; Nov. 23; v. 280; p. 734.
Boot. C. W. Hubbell. No. 1,349,572; Aug. 17; v. 277; p. 406.
Boot and shoe. J. B. Hurteau. No. 1,340,049; May 11; v. 274; p. 338.
Boot and shoe sole and making same, Wooden. G. E. Warren. No. 1,355,436; Oct. 12; v. 279; p. 247.
Boot and shoe vulcanizer. H. D. Ferguson. No. 1,358,068; Nov. 9; v. 280; p. 228.
Boot and shoe welt. W. B. Arnold. No. 1,357,676; Nov. 2; v. 280; p. 90.
Boot and shoe welt. W. B. Arnold. No. 1,357,677; Nov. 2; v. 280; p. 90.
Boot or shoe. A. E. Archambeau. No. 1,334,009; Mar. 16; v. 272; p. 459.
Boot or shoe. L. Pageau. No. 1,327,772; Jan. 13; v. 270; p. 228.
Boot or shoe sole. J. E. Grosjean. No. 1,344,504; June 22; v. 275; p. 749.
Boot or shoe sole. H. L. Haskell. No. 1,343,450; June 15; v. 275; p. 476.
Boot-tree. W. C. Troche. No. 1,360,059; Nov. 23; v. 280; p. 710.
Boots and shoes and making same, Innersole for. J. L. Hawkins. No. 1,348,644; Aug. 3; v. 277; p. 100.
Boots and shoes and other rubber articles, Apparatus for trimming heel-pads, rubber soles, and tips for. J. Sumner. No. 1,333,882; Mar. 16; v. 272; p. 435.
Boots and shoes and preparing same, Protecting-covering for. E. Lionne. No. 1,339,462; May 11; v. 274; p. 227.
Boots and shoes, Insulating, waterproof sole for. H. M. Burr and G. J. Ingraham. No. 1,347,775; July 27; v. 276; p. 662.
Boots and shoes, Machine for impregnating box-toe material for. W. F. Packard. No. 1,359,191; Nov. 16; v. 280; p. 492.
Boots and shoes, Machine for lasting. D. F. McFeely. No. 1,356,540; Oct. 26; v. 279; p. 551.
Boots and shoes, Machine for operating upon the heels of. F. M. Furber. No. 1,362,614; Dec. 21; v. 281; p. 422.
Boots and shoes, Making. H. C. Egerton. No. 1,352,738; Sept. 14; v. 278; p. 234.
Boots and shoes, Making. K. Engel. No. 1,360,278; Nov. 30; v. 280; p. 822.
Boots and shoes, Preparing and using box-toes in. W. F. Packard. No. 1,330,449; Feb. 10; v. 271; p. 237.
Boots and shoes, Resilient heel or lift for. H. C. Ridout. No. 1,351,691; Aug. 31; v. 277; p. 928.
Boots and shoes, Rubber tread for. S. Hilder. No. 1,330,633; Feb. 10; v. 271; p. 272.

Digitized by Google

Alphabetical list of inventions—Continued.

Boots and shoes, Toe-puff and like stiffener for. D. B. Macdonald. No. 1,345,944; July 6; v. 276; p. 122.
Boots and shoes, Vulcanizing-mold for. D. F. Wilhelmi. No. 1,349,796; Aug. 17; v. 277; p. 450.
Boots or shoes, Manufacturing composite soles for. J. E. Grosjean. No. 1,344,503; June 22; v. 275; p. 749.
Bootblack-chair. J. Mansari. No. 1,333,867; Mar. 16; v. 272; p. 432.
Bootjack and footrest, Combined. J. Bruschi. No. 1,361,010; Dec. 7; v. 281; p. 6.
Booth, counter, and the like, Composite. G. R. Meyercord. No. 1,343,637; June 15; v. 275; p. 513.
Booth, Marking, listing, and assorting. R. H. Tyner. No. 1,349,699; Aug. 17; v. 277; p. 431.
Borax from potassium chlorid, Separating. N. Wrinkle and W. A. Kuhnert. No. 1,350,090; Aug. 17; v. 277; p. 506.
Borax from saline waters, Recovering. G. B. Burnham. No. 1,328,614; Jan. 20; v. 270; p. 424.
Borax from solutions containing sodium borates, Recovering. C. Sundstrom. No. 1,349,446; Aug. 10; v. 277; p. 309.
Border-light. A. J. Lawson. No. 1,360,417; Nov. 30; v. 280; p. 848.
Boring-bar. W. E. Kelly. No. 1,362,871; Dec. 21; v. 281; p. 473.
Boring-bar. J. R. Martin. No. 1,336,311; Apr. 6; v. 273; p. 114.
Boring-bar. L. Mediavilla and J. L. Canales. No. 1,346,230; July 13; v. 276; p. 239.
Boring-bar cutters, Adjusting means for. W. E. Kelly. No. 1,342,447; June 8; v. 275; p. 216.
Boring-bracket. G. F. Krieger. No. 1,332,731; Mar. 2; v. 272; p. 106.
Boring-drill, Rotary. I. Feitel. No. 1,362,247; Dec. 14; v. 281; p. 300.
Boring-drill, Rotary. H. R. Hughes. No. 1,327,913; Jan. 13; v. 270; p. 254.
Boring-drill, Rotary. F. L. O. Wadsworth. No. 1,338,601; Apr. 27; v. 273; p. 752.
Boring-head. H. Kreps. No. 1,341,565; May 25; v. 274; p. 756.
Boring-machine. G. Baldwin. No. 1,331,949; Feb. 24; v. 271; p. 608.
Boring-machine. E. A. De Forest. No. 1,337,893; Apr. 20; v. 273; p. 455.
Boring-machine. W. H. Martin. No. 1,356,871; Oct. 26; v. 279; p. 616.
Boring-machine attachment. E. B. Mead. No. 1,345,455; July 6; v. 276; p. 25.
Boring machine, Earth-. A. R. Mangnall. No. 1,354,054; Sept. 28; v. 278; p. 599.
Bosom-press. G. Binder. No. 1,336,415; Apr. 13; v. 273; p. 194.
Bottle. W. J. Costella. No. 1,362,233; Dec. 14; v. 281; p. 297.
Bottle. B. J. Finnegan. No. 1,336,737; Apr. 13; v. 273; p. 256.
Bottle. H. E. Marcil. No. 1,337,979; Apr. 20; v. 273; p. 567.
Bottle and cap, Milk-. E. F. Carson. No. 1,333,245; Mar. 9; v. 272; p. 254.
Bottle and closure, Combination. T. C. Spelling. No. 1,353,187; Sept. 21; v. 278; p. 383.
Bottle and cup therefor, Vacuum-insulated. G. B. Altenberg. No. 1,354,712; Oct. 5; v. 279; p. 53.
Bottle and jar closure. J. A. Loyster. No. 1,340,783; May 18; v. 274; p. 534.
Bottle and jar holder. A. Meletti. No. 1,358,970; Nov. 16; v. 280; p. 452.
Bottle attachment, Ink-. C. A. Burdick. No. 1,343,960; June 22; v. 275; p. 642.
Bottle attachment, Nursing-. L. D. Clark. No. 1,343,113; June 8; v. 275; p. 348.
Bottle bail and cover, Combined. E. M. Knudsen. No. 1,363,983; Dec. 28; v. 281; p. 728.
Bottle-cap. E. G. Baum. No. 1,357,831; Nov. 2; v. 280; p. 120.
Bottle-cap. A. L. Bernardin. No. 1,355,446; Oct. 12; v. 279; p. 250.
Bottle-cap. C. M. Rice. No. 1,350,238; Aug. 17; v. 277; p. 535.
Bottle-cap lifter. P. H. Welcker. No. 1,338,847; May 4; v. 274; p. 37.
Bottle cap, Milk-. E. Wester. No. 1,352,334; Sept. 7; v. 278; p. 119.
Bottle-cap remover. A. L. Higgins. No. 1,345,182; June 29; v. 275; p. 944.
Bottle-cap remover. L. Myers. No. 1,345,948; July 6; v. 276; p. 123.
Bottle-caps, Tool for removing. C. S. Hall. No. 1,355,330; Oct. 12; v. 279; p. 228.
Bottle-caps, Tool for removing and attaching. M. C. Rosenfeld. No. 1,360,321; Nov. 30; v. 280; p. 830.
Bottle-capper. R. B. Glidden. No. 1,358,145; Nov. 9; v. 280; p. 243.
Bottle-capper. H. J. Lebherz. No. 1,356,161; Oct. 19; v. 279; p. 430.
Bottle-capper. E. R. Sharp. No. 1,338,656; Apr. 27; v. 273; p. 762.
Bottle-capper. J. W. Small. No. 1,350,477; Aug. 24; v. 277; p. 629.
Bottle capper, Milk-. G. Strandt. No. 1,360,463; Nov. 30; v. 280; p. 857.
Bottle capping and corking tool. A. H. Roberts and G. W. Weed. No. 1351,539; Aug. 31; v. 277; p. 899.
Bottle-capping apparatus. S. W. Taylor. No. 1,348,908; Aug. 10; v. 277; p. 202.
Bottle-capping implement. C. A. Bunker. No. 1,362,776; Dec. 21; v. 281; p. 455.
Bottle-capping machine. C. H. La Beef. No. 1,333,086; Mar. 9; v. 272; p. 225.
Bottle-capping machine. T. J. Levey. No. 1,333,025; Mar. 9; v. 272; p. 214.
Bottle-capping machine. E. E. Phillips. No. 1,349,097; Aug. 10; v. 277; p. 239.
Bottle-capping machine. E. R. Sharp. No. 1,363,170; Dec. 21; v. 281; p. 531.
Bottle-capping machine. G. Strandt. No. 1,358,797; Nov. 16; v. 280; p. 418.
Bottle-capping machine. C. F. Trottnow. No. 1,348,973; Aug. 10; v. 277; p. 215.
Bottle-capping machine. J. A. Valtin. No. 1,362,904; Dec. 21; v. 281; p. 479.
Bottle-capping tool. W. W. Buresch. No. 1,353,718; Sept. 21; v. 278; p. 489.
Bottle-capping tool. W. W. Buresch. No. 1,353,719; Sept. 21; v. 278; p. 489.
Bottle-capping machine. W. T. Robbins. No. 1,355,912; Oct. 19; v. 279; p. 380.
Bottle-capping machine. G. A. Williams, C. L. Missel, and J. G. Lepper. No. 1,332,279; Mar. 2; v. 272; p. 20.
Bottle-carrier. F. A. Cutburth. No. 1,355,214; Oct. 12; v. 279; p. 205.
Bottle-carrier, Individual. G. C. Pearson. No. 1,342,568; June 8; v. 275; p. 240.
Bottle carrier, Milk-. W. C. Campbell. No. 1,352,173; Sept. 7; v. 278; p. 88.
Bottle carrier, Milk-. G. T. Rix. No. 1,336,049; Apr. 6; v. 273; p. 65.
Bottle case and support. C. J. Cross. No. 1,361,752; Dec. 7; v. 281; p. 155.
Bottle-closure. C. E. Blanchard. No. 1,352,650; Sept. 14; v. 278; p. 217.
Bottle-closure. C. E. Blanchard. No. 1,361,789; Dec. 7; v. 281; p. 162.
Bottle-closure. A. Daccord. No. 1,327,809; Jan. 13; v. 270; p. 235.
Bottle-closure. B. Emrick. No. 1,348,273; Aug. 3; v. 277; p. 29.
Bottle-closure. H. Goldstein. No. 1,349,830; Aug. 17; v. 277; p. 456.
Bottle-closure. C. Hammer. No. 1,328,280; Jan. 20; v. 270; p. 360.
Bottle-closure. C. Hammer. No. 1,345,363; July 6; v. 276; p. 7.
Bottle-closure. W. W. Harris. No. 1,355,394; Oct. 12; v. 279; p. 240.
Bottle-closure. C. E. McManus. No. 1,339,066; May 4; v. 274; p. 78.
Bottle-closure. F. W. Schilling. No. 1,328,205; Jan. 13; v. 270; p. 310.
Bottle-closure. W. Silverman. No. 1,328,060; Jan. 13; v. 270; p. 282.
Bottle-closure, Accident-preventing. R. L. Harris. No. 1,355,092; Oct. 5; v. 279; p. 128.
Bottle-closure attachment. S. T. Whitaker. No. 1,346,621; July 13; v. 276; p. 317.
Bottle closure, Non-refillable-. G. Olszewska. No. 1,332,231; Mar. 2; v. 272; p. 10.
Bottle, Cover for hot-water. D. S. Applegate. No. 1,358,133; Nov. 9; v. 280; p. 240.
Bottle cover, Milk-. C. W. Mosley. No. 1,350,167; Aug. 17; v. 277; p. 521.
Bottle, Cream-separating milk-. J. M. Shook. No. 1,348,062; July 27; v. 276; p. 719.
Bottle-dispensing apparatus. F. F. Gilliam. No. 1,330,799; Feb. 17; v. 271; p. 371.
Bottle feeding and moving mechanism. J. C. Miller. No. 1,336,788; Apr. 13; v. 273; p. 266.
Bottle-filler. G. Agrillo. No. 1,352,165; Sept. 7; v. 278; p. 87.
Bottle-filling device. D. C. Dannelley. No. 1,336,071; Apr. 6; v. 273; p. 69.
Bottle-filling machine. A. Calleson. No. 1,358,931; Nov. 16; v. 280; p. 445.
Bottle-filling machine. Measuring. A. I. Risser. No. 1,360,023; Nov. 23; v. 280; p. 703.
Bottle handle, Milk-. W. A. Kruth. No. 1,351,479; Aug. 31; v. 277; p. 887.
Bottle-handling mechanism. R. La France. No. 1,355,232; Oct. 12; v. 279; p. 208.
Bottle-handling mechanism. E. E. Winkley. No. 1,344,013; June 22; v. 275; p. 653.
Bottle hanger, Milk-. O. A. Smith. No. 1,339,792; May 11; v. 274; p. 289.
Bottle-holder. O. Halverson. No. 1,338,652; Apr. 27; v. 273; p. 761.
Bottle-holder. M. J. Hyland. No. 1,342,747; June 8; v. 275; p. 274.
Bottle-holder. R. Lozzitto and L. Moss. No. 1,346,901; July 20; v. 276; p. 431.
Bottle-holder. T. A. O'Reilly. No. 1,340,974; May 25; v. 274; p. 641.

Digitized by Google

Bottle-holder. W. H. Saunders. No. 1,363,168; Dec. 21; v. 281; p. 530.
Bottle-holder. E. R. Smith. No. 1,338,106; Apr. 27; v. 273; p. 660.
Bottle holder and cooler, Milk-. G. V. Oberman. No. 1,348,661; Aug. 3; v. 277; p. 103.
Bottle holder and lock, Combined milk-. F. Wamback. No. 1,351,359; Aug. 31; v. 277; p. 863.
Bottle holder, Milk-. J. M. Donohue. No. 1,335,369; Mar. 30; v. 272; p. 821.
Bottle holder, Milk-. M. A. Pascale. No. 1,360,786; Nov. 30; v. 280; p. 921.
Bottle holder, Milk-. G. R. Schlegel. No. 1,353,498; Sept. 21; v. 278; p. 443.
Bottle holder, Milk-. G. Wilson. No. 1,356,480; Oct. 19; v. 279; p. 492.
Bottle holder, Nursery-. C. A. Boyce. No. 1,339,018; May 4; v. 274; p. 68.
Bottle holder, Nursing-. E. J. Batty. No. 1,336,809; Apr. 13; v. 273; p. 269.
Bottle holder, Nursing-. O. Dulac. No. 1,349,051; Aug. 10; v. 277; p. 230.
Bottle holder, Sanitary milk-. F. E. Wocel. No. 1,341,607; May 25; v. 274; p. 763.
Bottle, Hot-water. A. R. Chambers. No. 1,346,176; July 13; v. 276; p. 229.
Bottle, Hot-water. H. E. Kaufmann. No. 1,334,378; Mar. 23; v. 272; p. 574.
Bottle, Indicating-. W. C. Schmidt. No. 1,326,974; Jan. 6; v. 270; p. 18.
Bottle lock, Milk-. J. J. Quinn. No. 1,360,578; Nov. 30; v. 280; p. 880.
Bottle, Milk-. C. R. Chenery. No. 1,342,013; June 1; v. 275; p. 78.
Bottle, Milk-. L. Kines. No. 1,329,975; Feb. 3; v. 271; p. 118.
Bottle, Non-refillable. M. Beshenich. No. 1,327,133; Jan. 6; v. 270; p. 47.
Bottle, Non-refillable. A. J. Carlin. No. 1,340,373; May 18; v. 274; p. 456.
Bottle, Non-refillable. J. Finberg and C. T. Heller, Jr. No. 1,362,564; Dec. 14; v. 281; p. 361.
Bottle, Non-refillable. E. Ibarra y Suris. No. 1,345,279; June 29; v. 275; p. 963.
Bottle, Non-refillable. A. Laube. No. 1,337,923; Apr. 20; v. 273; p. 555.
Bottle, Non-refillable. E. Miller. No. 1,336,252; Apr. 6; v. 273; p. 104.
Bottle, Non-refillable. F. Rustant. No. 1,357,654; Nov 2; v. 280; p. 85.
Bottle, Non-refillable. F. Rustant. No. 1,358,398; Nov. 9; v. 280; p. 294.
Bottle, Nursing-. W. E. Goddard. No. 1,344,760; June 29; v. 275; p. 864.
Bottle-opener. J. A. Higgs. No. 1,351,646; Aug. 31; v. 277; p. 920.
Bottle opener and closer. H. Hunt and R. Schaab. No. 1,338,224; Apr. 27; v. 273; p. 682.
Bottle or jar closure device. H. Moore. No. 1,328,536; Jan. 20; v. 270; p. 409.
Bottle, Paper. H. C. De Baun, M. M. Schwer, and C. Kerkhof. No. 1,361,870; Dec. 7; v. 281; p. 78.
Bottle, Poison-. C. Mohme. No. 1,355,161; Oct. 12; v. 279; p. 194.
Bottle-protector. E. K. Wolfe. No. 1,338,063; Apr. 27; v. 273; p. 651.
Bottle, Pulp. E. E. Claussen. No. 1,328,317; Jan. 20; v. 270; p. 368.
Bottle-receptacle. H. C. Dorn and H. A. Luedke. No. 1,334,083; Mar. 16; v. 272; p. 473.
Bottle-retaining device, Milk-. J. Crumlish. No. 1,363,397; Dec. 28; v. 281; p. 614.
Bottle safety-lock. J. Byrne. No. 1,343,962; June 22; v. 275; p. 642.
Bottle-stopper. F. C. Bitler. No. 1,327,519; Jan. 6; v. 270, p. 119.
Bottle-stopper. A. J. Daniel. No. 1,338,494; Apr. 27; v. 273; p. 732.
Bottle-stopper. P. J. Hentschel. No. 1,352,062; Sept. 7; v. 278; p. 68.
Bottle-stopper. T. M. Moore. No. 1,340,237; May 18; v. 274; p. 431.
Bottle, &c., stopper. H. P. Roberts. No. 1,346,510; July 13; v. 276; p. 295.
Bottle-stopper. G. Wolferman. No. 1,342,657; June 8; v. 275; p. 256.
Bottle stopper and seal. P. Susol. No. 1,355,012; Oct. 5; v. 279; p. 112.
Bottle-stopper, Protective. H. G. Tuck. No. 1,331,730; Feb. 24; v. 271; p. 567.
Bottle-stopper protector and supporter. T. A. Johnson. No. 1,352,967; Sept. 14; v. 278; p. 280.
Bottle support and sanitary protector therefor, Safety milk-. D. Dunn. No. 1,336,826; Apr. 13; v. 273; p. 273.
Bottle top and lock. W. A. Wheelock. No. 1,358,352; Nov. 9; v. 280; p. 284.
Bottle top, Milk-. M. M. Williston. No. 1,332,183; Feb. 24; v. 271; p. 651.
Bottle-transferring apparatus. G. Young. No. 1,358,913; Nov. 16; v. 280; p. 441.
Bottle-turning machine. J. L. Brown. No. 1,355,032; Oct. 5; v. 279; p. 116.
Bottle, Vacuum-. H. M. Smith. No. 1,352,844; Sept. 14; v. 278; p. 256.
Bottle warmer and sterilizer. W. E. Lawson and W. R. Smith. No. 1,354,409; Sept. 28; v. 278; p. 671.
Bottle-washer. E. W. Dana. No. 1,361,753; Dec. 7; v. 281; p. 155.
Bottle-washers, Loader for. G. J. Meyer. No. 1,345,617; July 6; v. 276; p. 57.
Bottles and other containers, Closure for. T. C. Spelling. No. 1,361,412; Dec. 7; v. 281; p. 87.
Bottles and other containers, Means for capping or closing. G. M. S. Tait. No. 1,363,824; Dec. 28; v. 281; p. 698.
Bottles and other receptacles, Closure for. A. C. Lathrop. No. 1,347,014; July 27; v. 276; p. 708.
Bottles and other receptacles, Device for cleansing the interior of. E. A. Jackson. No. 1,350,807; Aug. 24; v. 277; p. 693.
Bottles and similar receptacles, Cap for milk-. J. A. Loyster. No. 1,346,757; July 13; v. 276; p. 344.
Bottles, Attachment for thermos-. C. H. Wilson and C. G. Lee. No. 1,342,883; June 8; v. 275; p. 302.
Bottles, Cap for nursing-. W. M. Decker. No. 1,351,328; Aug. 31; v. 277; p. 857.
Bottles, Capping. B. F. Roehrig. No. 1,339,370; May 4; v. 274; p. 133.
Bottles, Closure for milk-. F. C. Larkin. No. 1,329,248; Jan. 27; v. 270; p. 572.
Bottles, Closure for milk-. H. Moak. No. 1,361,394; Dec. 7; v. 281; p. 83.
Bottles, Closure for water-. J. C. Traynor. No. 1,331,294; Feb. 17; v. 271; p. 464.
Bottles, Closure for water-. J. C. Traynor. No. 1,335,467; Mar. 30; v. 272; p. 839.
Bottles, Combined cover and closure-remover for. E. F. Kandlbinder. No. 1,349,511; Aug. 10; v. 277; p. 321.
Bottles, Cover-holder for milk-. G. M. Webb. No. 1,362,208; Dec. 14; v. 281; p. 202.
Bottles, Drinking attachment for. E. L. Stewart. No. 1,341,826; June 1; v. 275; p. 42.
Bottles, Making vacuum-. C. F. P. Anders. No. 1,335,544; Mar. 30; v. 272; p. 853.
Bottles, Manufacturing rubber hot-water. M. S. Lower. No. 1,338,314; Apr. 27; v. 273; p. 699.
Bottles, Marking-card for milk- R. G. Heard. No. 1,353,531; Sept. 21; v. 278; p. 450.
Bottles or other vessels to machines intended for treating them, Device for feeding. A. A. Rosengren. No. 1,344,053; June 29; v. 275; p. 843.
Bottles, Sanitary closure for. C. W. Borgner. No. 1,343,760; June 15; v. 275; p. 538.
Bottles, Sanitary device for removing contents of. C. A. Rohder. No. 1,335,029; Mar. 30; v. 272; p. 758.
Bottles, Tag for milk-. O. O. Kolstad. No. 1,360,229; Nov. 23; v. 280; p. 743.
Bottles, Wire-protector for nursing-. E. K. Wolfe. No. 1,345,654; July 6; v. 276; p. 63.
Bottling-machine. A. E. Swanson. No. 1,350,249; Aug. 17; v. 277; p. 537.
Bottling-machines, Filling-head for. S. Kaye. No. 1,331,015; Feb. 17; v. 271; p. 414.
Bottling machinery, Device for preventing clogging and jamming of conveyers of. E. Seufer and P. Duber. No. 1,358,255; Nov. 9; v. 280; p. 264.
Bottom-finishing machine, Unlon-. E. Wirth and C. A. Demmler. No. 1,330,508; Feb. 10; v. 271; p. 249.
Boudoir-chair. T. H. Morris and F. T. Grubbe. No. 1,338,582; Apr. 27; v. 273; p. 748.
Bouquets, badges, and emblems, Separable holder for buttonhole-. R. E. Hornbeck. No. 1,359,381; Nov. 16; v. 280; p. 531.
Bow. J. Jennison and G. H. Higgins. No. 1,361,157; Dec. 7; v. 281; p. 35.
Bow-fastener. R. Giraudias. No. 1,348,795; Aug. 3; v. 277; p. 128.
Bow-guide. H. F. Fisher. No. 1,353,036; Sept. 14; v. 278; p. 293.
Bow-holder. G. S. Kelley. No. 1,353,912; Sept. 28; v. 278; p. 570.
Bow-socket. D. A. Brewer. No. 1,347,678. July 27; v. 276; p. 641.
Bow-tie grip. A. Graske. No. 1,348,623; June 15; v. 275; p. 510.
Bowl, Cream-separator. C. O. Anderson. No. 1,351,198; Aug. 31; v. 277; p. 830.
Bowl, Drinking-fountain. M. W. Wuesthoff. No. 1,338,474; Apr. 27; v. 273; p. 728.
Bowl hanger, Light-. A. J. Petersen. No. 1,338,958; May 4; v. 274; p. 57.
Bowl, Reinforced wooden. L. Berry. No. 1,357,940; Nov. 9; v. 280; p. 202.
Bowl, Watering-. W. A. Andrew. No. 1,345,113; June 29; v. 275; p. 931.
Bowls, Flushing device for lavatory-. B. Jenkins. No. 1,329,840; Feb. 3; v. 271; p. 93.
Bowls, Opening means for centrifugal. M. Leitch. No. 1,343,325; June 15; v. 275; p. 452.
Bowling-alley. W. M. Bradley. No. 1,338,284; Apr. 27; v. 273; p. 693.
Bowling-alley. W. L. Figenshu. No. 1,329,235; Jan. 27; v. 270; p. 569.

Digitized by Google

Bowling-alley. C. W. Stevens. No. 1,339,425; May 11; v. 274; p. 219.
Bowling-alley, Parlor. J. A. Malone. No. 1,360,661; Nov. 30; v. 280; p. 897.
Bowling-pin. E. P. Grignon. No. 1,351,421; Aug. 31; v. 277; p. 875.
Box: *See*—

Annealing-box.
Bait-box.
Bait and tackle box.
Bandbox.
Battery-box.
Bearing-box.
Berry-box.
Call-box.
Cardboard box.
Cartridge-box.
Cash-carrier box.
Casting-box.
Cheese-box.
Cigar and cigarette box.
Cigarette-box.
Coil-box.
Coin-box.
Coin and stamp box.
Collapsible box.
Collection-box.
Confection-box.
Contribution-box.
Core-box.
Cotton-bale box.
Cut-out box.
Display-box.
Egg-box.
Electric service-box.
Fare-box.
Feed-box.
File-box.
Flower-box.
Folding box.
Frog-box.
Fuse-box.
Generator disconnector-box.
Groceryman's box.
Hatbox.
Heat-treating box.
Hinged box.
Journal-box.
Knockdown box.
Letter-box.
Locomotive driving-box.
Locomotive fire-box.
Lunch-box.
Mail-box.
Mailing-box.
Manure-box.
Match-box.
Metal-bound box.
Miter-box.
Outlet-box.
Packing-box.
Panel-box.
Paper box.
Paper-board box.
Phonograph sound-box.
Piston-rod packing-box.
Powder-box.
Rail-joint box.
Safety-deposit box.
Safety panel-box.
Salt and pepper box.
Sand-box.
Savings safety-box.
Shop-box.
Shipping-box.
Shoe-polish box.
Sound-box.
Sputum-box.
Stuffing-box.
Switch-box.
Switch or receptacle box.
Talcum-powder box.
Talking-machine sound-box.
Thread-box.
Tobacco-box.
Toilet-box.
Tool-box.
Tote-box.
Twyer and cooling-box.
Valve-stem stuffing-box.
Vanity-box.
Watch-display box.

Box. S. Bachmann. No. 1,354,012; Sept. 28; v. 278; p. 590.
Box. A. M. Billstein. No. 1,351,278; Aug. 31; v. 277; p. 846.
Box. L. Binder. No. 1,330,300; Feb. 10; v. 271; p. 209.
Box. C. H. Bombardie. No. 1,329,332; Jan. 27; v. 270; p. 586.
Box. C. H. Bombardie. No. 1,329,333; Jan. 27; v. 270; p. 586.
Box. C. H. Bombardie and P. F. Wegner. No. 1,347,675; July 27; v. 276; p. 641.
Box. G. A. Burbey. No. 1,333,155; Mar. 9; v. 272; p. 238.
Box. H. R. Coons. No. 1,347,889; July 27; v. 276; p. 674.
Box. R. G. Inwood. No. 1,328,328; Jan. 20; v. 270; p. 370.
Box. N. O. Kenniker and F. A. Fritze, Jr. No. 1,340,119; May 11; v. 274; p. 352.
Box. W. C. Kitt. No. 1,329,531; Feb. 3; v. 271; p. 35.
Box. W. C. Kitt. No. 1,345,784; July 6; v. 276; p. 90.
Box. G. E. Krause. No. 1,335,787; Apr. 6; v. 273; p. 16.
Box. P. C. Lavenberg. No. 1,340,480; May 18; v. 274; p. 478.
Box. E. S. Mix. No. 1,352,016; Sept. 7; v. 278; p. 59.
Box. J. W. Yocum. No. 1,362,659; Dec. 21; v. 281; p. 431.
Box and bottle closure. C. J. Salviolo. No. 1,341,078; May 25; v. 274; p. 681.
Box and making. H. V. Wagoner. No. 1,356,895; Oct. 26; v. 279; p. 620.
Box and making same. G. C. Babcock. No. 1,334,271; Mar. 16; v. 272; p. 508.
Box-blank. J. Srofe. No. 1,331,395; Feb. 17; v. 271; p. 483.
Box-blank. J. Srofe. No. 1,360,042; Nov. 23; v. 280; p. 707.
Box-blank machine, Wire-bound-. W. P. Healy. No. 1,343,561; June 15; v. 275; p. 498.
Box-blanks, Machine for making. O. A. Schmitt. No. 1,355,430; Oct. 12; v. 279; p. 246.
Box-blanks, Means for making fiber-board. G. F. Callery. No. 1,361,564; Dec. 7; v. 281; p. 119.
Box, case, and like receptacle. P. V. Goodwin. No. 1,358,540; Nov. 9; v. 280; p. 322.
Box case or crate, Collapsible. R. H. Roberts. No. 1,347,280; July 20; v. 276; p. 495.
Box-cover fastener. C. L. Shelton. No. 1,328,302; Jan. 20; v. 270; p. 364.
Box-cover holder. M. Amos. No. 1,331,972; Feb. 24; v 271; p. 613.
Box-covering and similar machines, Finger-guard for. H. De Smith. No. 1,330,850; Feb. 17; v. 271; p. 381.
Box-covering and similar machines, Finger-guard for. C. R. Seymour. No. 1,330,908; Feb. 17; v. 271; p. 393.
Box-covering blank. W. Buswell. No. 1,343,193; June 15; v. 275; p. 428.
Box-covering machine. J. D. Reifsnyder and W. A. Weightman. No. 1,343,748; June 15; v. 275; p. 536.
Box-covering machine. C. R. Seymour. No. 1,333,940; Mar. 16; v. 272; p. 446.
Box-blank machine, Wire-bound-. F. J. Grumme. (Reissue.) No. 14,951; Sept. 28; v. 278; p. 681.
Box, Collapsible berry-. C. W. Robinson. No. 1,352,833; Sept. 14; v. 278; p. 254.
Box-ending machines and like presses. Safety device for. J. T. Robinson and G. E. Gooding. No. 1,329,431; Feb. 3; v. 271; p. 16.
Box-fasteners. E. W. Stamm. No. 1,346,566; July 13; v. 276; p. 307.
Box folding and stacking machine. H. A. and W. H. Inman. No. 1,355,398; Oct. 12; v. 279; p. 240.
Box-former. C. L. Brown. No. 1,331,315; Feb. 17; v. 271; p. 468.
Box-forming apparatus. R. H. Bremer. No. 1,355,031; Oct. 5; v. 279; p. 115.
Box-forming machine. M. Hess. No. 1,335,785; Apr. 6; v. 273; p. 6.
Box-forming machine, Extension-edge-. D. G. Steely, F. V. Blake, and G. A. Lorentzen. No. 1,332,641; Mar. 2; v. 272; p. 89.
Box-hanger. M. H. Paine and W. S. Williams. No. 1,326,959; Jan. 6; v. 270; p. 15.
Box holder, Boot-polish-. H. L. Moyle. No. 1,363,901; Dec. 28; v. 281; p. 712.
Box-joints, Making. B. A. Lange. No. 1,362,330; Dec. 14; v. 281; p. 316.
Box-lid support. M. Cianovich. No. 1,337,999; Apr. 27; v. 273; p. 639.
Box, Mail-. C. H. Heine. No. 1,362,941; Dec. 21; v. 281; p. 486.
Box-making machine. M. B. Diskin. No. 1,343,906; June 22; v. 275; p. 632.
Box-making machine. W. Hughes and O. R. Bieler. No. 1,335,686; Mar. 30; v. 272; p. 881.
Box-making machine. L. E. La Bombard. No. 1,346,899; July 20; v. 276; p. 431.
Box-marking machine. R. F. Stuart. No. 1,351,358; Aug. 31; v. 277; p. 862.
Box members, Fastening device for hinged. C. C. Armstrong. No. 1,344,846; June 29; v. 275; p. 881.
Box-opener. L. I. Felts. No. 1,363,579; Dec. 28; v. 281; p. 650.
Box-opener. J. Heiligenstein. No. 1,343,627; June 15; v. 275; p. 511.
Box-opening device. P. F. Degenkolb. No. 1,354,893; Oct. 5; v. 279; p. 89.
Box-opening device. C. S. Humphrey. No. 1,334,245; Mar. 16; v. 272; p. 503.
Box-operating mechanism. W. Zeedyk. No. 1,339,999; May 11; v. 274; p. 328.
Box or carton. D. H. Reddie. No. 1,363,616; Dec. 28; v. 281; p. 657.
Box or crate. J. C. Round. No. 1,338,533; Apr. 27; v. 273; p. 780.
Box parts or boxes, Machine for use in making. R. G. Inwood. No. 1,332,728; Mar. 2; v. 272; p. 106.
Box-press. W. V. Hart. No. 1,352,749; Sept. 14; v. 278; p. 237.
Box-pressing machines, Ejector for. M. R. Kondolf. No. 1,355,113; Oct. 5; v. 279; p. 131.
Box-sealing machine. B. Heinrichs. No. 1,355,227; Oct. 12; v. 279; p. 207.
Box-staying machine. C. F. Walz and F. D. Morris. No. 1,346,573; July 13; v. 276; p. 308.
Box-strap-applying mechanism. E. Dietze. No. 1,348,270; Aug. 3; v. 277; p. 25.
Box-strap-fastening means. E. Dietze. No. 1,348,271; Aug. 3; v. 277; p. 28.
Box structure. D. Postal and S. Hammer. No. 1,335,296; Mar. 30; v. 272; p. 807.
Box support, Outlet-. M. C. Rosenfeld. No. 1,332,690; Mar. 2; v. 272; p. 98.
Box-tie. F. Joudry. No. 1,354,656; Oct. 5; v. 279; p. 42.
Box-toes, Machine for pressing in. A. J. Ryan. No. 1,356,017; Oct. 19; v. 279; p. 401.
Box-walls, Method and apparatus for making reinforced. G. J. Thust. No. 1,358,126; Nov. 9; v. 280; p. 239.
Box-wrapping apparatus, Extension-bottom-. A. J. Morrison. No. 1,348,369; Aug. 3; v. 277; p. 47.
Boxes, Automatic closure for conduit-. C. S. Ryerson. No. 1,334,172; Mar. 16; v. 272; p. 490.
Boxes, Automatic seal-closure for. J. A. Wachter. No. 1,350,397; Aug. 24; v. 277; p. 612.
Boxes, Binding corner connection for knock down. N. O. Kenniker. No. 1,335,060; Mar. 30; v. 272; p. 764.
Boxes, cases, and other receptacles having lids, Bolt-fastenings for the lids of. C. C. Gossage. No. 1,346,450; July 13; v. 276; p. 283.
Boxes, Combination-dies for punching, creasing, and finishing the heads of solid-end paper. H. B. Walter. No. 1,342,239; June 1; v. 275; p. 123.

Digitized by Google

Boxes, Contents-ejector for. A. Ward. No. 1,332,420; Mar. 2; v. 272; p. 47.
Boxes, Cover for service-. J. W. Gibney. No. 1,349,610; Aug. 17; v. 277; p. 414.
Boxes, Machine for filling. M. Paridon. No. 1,360,438; Nov. 30; v. 280; p. 852.
Boxes, Machine for making. W. Schelble. No. 1,359,110; Nov. 16; v. 280; p. 478.
Boxes, Machine for making. C. F. Wright. No. 1,348,197; Aug. 3; v. 277; p. 12.
Boxes, Machine for making partitions for. F. M. Joslin. No. 1,353,344; Sept. 21; v. 278; p. 413.
Boxes, Production of. J. S. Stokes. No. 1,355,924; Oct. 19; v. 279; p. 382.
Boxes, Strengthening-band for. S. W. Parsons. No. 1,361,611; Dec. 7; v. 281; p. 127.
Boxes, Supporting and exhibiting device for. A. Goldstein. No. 1,357,700; Nov. 2; v. 280; p. 94.
Brace: *See*—
Ankle-brace.
Axle-brace.
Body-brace.
Car-load brace.
Drilling-brace.
Limb or foot brace.
Mud-guard brace.
Rail-brace.
Railway-rail brace.
Ratchet-brace.
Ratchet bit-brace.
Reel-swift brace.
Screen-door brace.
Seat-brace.
Silo-brace.
Table corner-brace.
Track-brace.
Vehicle-body brace.
Vehicle-frame frame.
Brace. W. L. Allee. No. 1,346,736; July 13; v. 276; p. 340.
Brace construction. W. I. Tuttle. No. 1,335,408; Mar. 30; v. 272; p. 829.
Brace for cases, Corner-. W. H. Myers. No. 1,356,391; Oct. 19; v. 279; p. 475.
Brace for correcting foot-angles. E. Dahl. No. 1,340,700; May 18; v. 274; p. 519.
Brace or knee. H. B. Gaffers. No. 1,343,445; June 15; v. 275; p. 475.
Braces, Construction for. W. I. Tuttle. No. 1,335,409; Mar. 30; v. 272; p. 829.
Braces, drills, &c., Ratchet mechanism for. A. B. Carll. No. 1,363,954; Dec. 28; v. 281; p. 723.
Bracelet. A. Bayardi. No. 1,357,139; Oct. 26; v. 279; p. 668.
Bracelet. W. P. May. No. 1,326,948; Jan. 6; v. 270; p. 13.
Bracelet. H. Wachenheimer. No. 1,344,365; June 22; v. 275; p. 721.
Bracelet-gage. C. H. Kemper. No. 1,339,896; May 11; v. 274; p. 309.
Bracelet-snap. W. Maguire and A. Bausch. No. 1,353,772; Sept. 21; v. 278; p. 499.
Bracelets, Connector for band-. S. L. Lederer and G. U. Meyer. No. 1,350,508; Aug. 24; v. 277; p. 635.
Bracing-fixture. P. H. Seery. No. 1,350,674; Aug. 24; v. 277; p. 667.
Bracket: *See*—
Adjustable bracket.
Bed-frame corner-bracket.
Boring-bracket.
Bumper-bracket.
Bumper-attaching bracket.
Cable-bracket.
Clothes-hanger bracket.
Commutator-bracket.
Curtain-bracket.
Curtain and shade bracket.
Curtain-pole and window-shade bracket.
Curtain-rod bracket.
Cuspidor-bracket.
Draft-gear bracket.
Drop-light bracket.
Drum-tension bracket.
Electric-light bracket.
Flagpole-bracket.
Furniture-bracket.
Headlight-bracket.
Insulator-bracket.
Ladder-bracket.
Lamp-bracket.
License-tag bracket.
Mail-box bracket.
Mirror-bracket.
Ornamental bracket.
Railway-brake.
Railway-train brake.
Roof-bracket.
Scaffold-bracket.
Shade-bracket.
Shade and curtain-pole bracket.
Shade-holder bracket.
Shade-roller bracket.
Shade-roller and curtain-pole bracket.
Shelf-bracket.
Shelving-bracket.
Signal-casing bracket.
Snow-brake bracket.
Supporting-bracket.
Tag-bracket.
Tobacco-sorter's bracket.
Wall-bracket.
Window-bracket.
Window-shade bracket.
Bracket. A. Becker. No. 1,341,535; May 25; v. 274; p. 750.
Bracket. W. B. Franklin. No. 1,359,349; Nov. 16; v. 280; p. 525.
Bracket. J. W. Hallam. No. 1,330,262; Feb. 10; v. 271; p. 203.
Bracket. R. T. Newton. No. 1,346,048; July 6; v. 276; p. 143.
Bracket. C. F. Niemeyer. No. 1,333,934; Mar. 16; v. 272; p. 445.
Bracket. J. H. Rogers. No. 1,340,684; May 18; v. 274; p. 516.
Bracket. G. A. Ruple. No. 1,341,198; May 25; v. 274; p. 685.
Bracket. A. P. Sandberg. No. 1,353,853; Sept. 28; v. 278; p. 558.
Bracket. J. H. Wright. No. 1,342,659; June 8; v. 275; p. 256.
Bracket. O. L. Yeomans. No. 1,350,400; Aug. 24; v. 277; p. 613.
Bracket and clamp, Combined. A. A. H. Griffin. No. 1,350,221; Aug. 17; v. 277; p. 532.
Bracket-box for indicating instruments. J. Lake, Jr. No. 1,330,196; Feb. 10; v. 271; p. 191.
Bracket for drummers' traps. R. C. Danly. No. 1,363,231; Dec. 28; v. 281; p. 583.
Bracket-holder, Adjustable. L. Schwarz. No. 1,333,456; Mar. 9; v. 272; p. 294.
Bracket holder, Bumper-. P. Riedele. No. 1,329,019; Jan. 27; v. 270; p. 529.
Brackets, Fastener for insulating-. I. Cadwallader. No. 1,335,042; Mar. 30; v. 272; p. 760.
Brad-driver. E. P. Scheidemantle. No. 1,330,283; Feb. 10; v. 271; p. 206.
Braiding-carrier. H. Staub. No. 1,360,810; Nov. 30; v. 280; p. 926.
Braiding-machine. J. Kappeler. No. 1,330,328; Feb. 10; v. 271; p. 214.
Braiding-machine. M. E. Penso and F. Klein. No. 1,358,173; Nov. 9; v. 280; p. 248.
Braiding-machine. A. Petersen. No. 1,331,672; Feb. 24; v. 271; p. 556.
Braiding-machine. R. C. Rahm. No. 1,337,269; Apr. 20; v. 273; p. 431.
Braiding-machine. E. T. Turney. No. 1,356,570; Oct. 26; v. 279; p. 556.
Braiding-machine. E. Walter. No. 1,328,216; Jan. 13; v. 270; p. 312.
Braiding-machine, Bobbin for. C. Wildi. No. 1,354,084; Sept. 28; v. 278; p. 606.
Braiding-machine drive and stop mechanism. R. C. Rahm. No. 1,337,270; Apr. 20; v. 273; p. 431.
Braiding machines, Apparatus for holding the thread tense in circular-. G. Horn. No. 1,343,452; June 15; v. 275; p. 476.
Braiding-machines, Bobbin-carrier for. F. Klein. No. 1,358,216; Nov. 9; v. 280; p. 256.
Braiding-machines, Carrier for. S. S. Picard. No. 1,337,155; Apr. 13; v. 273; p. 335.
Braiding-machines, Driving-disk and carrier for. S. S. Picard. No. 1,331,369; Feb. 17; v. 271; p. 478.
Braiding-machines, Rubber-core-tensioning mechanism for. F. W. Plumb. No. 1,342,646; June 8; v. 275; p. 254.
Braiding or lacing machine. F. Kellner. No. 1,340,487; May 18; v. 274; p. 478.
Brake: *See*—
Aeroplane-brake.
Aeroplane landing-brake.
Air-brake.
Airplane-brake.
Automatic brake.
Automobile-brake.
Balance-brake.
Bending-brake.
Car-brake.
Carrier-brake.
Coaster-brake.
Conveyer-brake.
Derailment-brake.
Disk brake.
Electric-brake.
Electromagnetic brake.
Electromagnetically-controlled brake.
Electropneumatic brake.
Fire-shutter brake.
Fluid-pressure brake.
Free-wheel coaster-brake.
Friction band-brake.
Gun-brake.
Hand-brake.
Headstock-brake.
Hemp-brake.
Internal brake.
Lathe-brake.
Lever-brake.
Locomotive-crane brake.
Motor-brake.
Phonograph-brake.
Safety-brake.
Skee-brake.
Sled-brake.
Spinning-brake.
Truck-brake.
Vacuum and compressed-air brake.
Vehicle-brake.
Wagon-brake.
Window-sash brake.
Brake. J. Bauer. No. 1,330,833; Feb. 17; v. 271; p. 378.
Brake. W. C. Brinton and W. J. Dudley. No. 1,360,089; Nov. 23; v. 280; p. 716.
Brake. P. Brown. No. 1,340,321; May 18; v. 274; p. 446.
Brake. F. M. Campbell. No. 1,328,491; Jan. 20; v. 270; p. 401.
Brake. H. C. Eichmeier. No. 1,328,502; Jan. 20; v. 270; p. 403.
Brake. S. Giacoletto. No. 1,345,165; June 29; v. 275; p. 941.
Brake. J. T. Halsey. No. 1,348,106; July 27; v. 276; p. 727.
Brake. J. D. C. Ivey. No. 1,336,435; Apr. 13; v. 273; p. 198.
Brake. R. M. Lovejoy. No. 1,363,607; Dec. 28; v. 281; p. 656.
Brake. E. D. Mackintosh. No. 1,347,347; July 20; v. 276; p. 519.
Brake. C. H. Satterlee. No. 1,342,352; June 1; v. 275; p. 144.
Brake. R. Schmitz. No. 1,344,598; June 22; v. 275; p. 768.
Brake and coaster, Back-pedaling. E. Enström and E. H. W. Weibull. No. 1,346,118; July 13; v. 276; p. 218.
Brake apparatus. A. F. Klasing. No. 1,348,282; Aug. 3; v. 277; p. 30.
Brake apparatus, Controller for electropneumatic. F. Goff. No. 1,339,754; May 11; v. 274; p. 282.
Brake arrangement. A. H. Peycke. No. 1,335,189; Mar. 30; v. 272; p. 788.

Digitized by Google

Alphabetical list of inventions—Continued.

Brake-band, Friction. D. B. Simpson. No. 1,351,927; Sept. 7; v. 278; p. 43.
Brake-bands, Quick release for. S. Hansen. No. 1,360,634; Nov. 30; v. 280; p. 891.
Brake-beam. C. F. Huntoon. No. 1,354,650; Oct. 5; v. 279; p. 41.
Brake-beam guard. M. Armstrong. No. 1,354,372; Sept. 28, v. 278; p. 664.
Brake-beam guide and safety-guard, Combination. J. L. Mohun. No. 1,357,336; Nov. 2; v. 280; p. 26.
Brake-beam strut. C. F. Huntoon. No. 1,340,168; May 18; v. 274; p. 418.
Brake-beam support. T. L. Burton. No. 1,340,008; May 11; v. 274; p. 330.
Brake-beam support. T. L. Burton. No. 1,340,009; May 11; v. 274; p. 330.
Brake-beam support. T. L. Burton. No. 1,340,010; May 11; v. 274; p. 310.
Brake-beams, Adjustable third or fourth point support for. C. H. Williams. No. 1,352,570; Sept. 14; v. 278; p. 201.
Brake-beams, Fourth-point support for. C. H. Williams. No. 1,357,369; Nov. 2; v. 280; p. 32.
Brake-beams, Safety device for. J. McMullen. No. 1,338,317; Apr. 27; v. 273; p. 699.
Brake-beams, Safety-guard for. C. H. Williams. No. 1,334,124; Mar. 16; v. 272; p. 481.
Brake-beams, Third or fourth point support for. C. H. Williams. No. 1,363,829; Dec. 28; v. 281; p. 699.
Brake-block. J. B. Bowmer. No. 1,336,882; Apr. 13; v. 273; p. 283.
Brake control. D. F. Lepley. No. 1,358,379; Nov. 9; v. 280; p. 289.
Brake for differentials, Friction-. A. F. Ford. No. 1,358,434; Nov. 9; v. 280; p. 301.
Brake-hanger T. L. Burton. No. 1,328,315; Jan. 20; v. 270; p. 367.
Brake-hanger arrangement. L. L. Whitney. No. 1,335,214; Mar. 30; v. 272; p. 792.
Brake-head. D. S. Schwartz. No. 1,349,534; Aug. 10; v. 277; p. 326.
Brake-head adjuster. T. L. Burton. No. 1,349,407; Aug. 10; v. 277; p. 301.
Brake-lining. F. J. Gleason. No. 1,342,043; June 1; v. 275; p. 84.
Brake-lining dressing. G. E. Calhoun. No. 1,338,811. May 4; v. 274; p. 30.
Brake means. A. H. Peycke. No. 1,335,190; Mar. 30; v. 272; p. 788.
Brake mechanism. G. S. Ackley. No. 1,341,830; June 1; v. 275; p. 43.
Brake mechanism. T. H. Ham. No. 1,335,495; Mar. 30; v. 272; p. 844.
Brake mechanism. H. D. James. No. 1,330,590; Feb. 10; v. 271; p. 264.
Brake mechanism. B. G. Kramer. No. 1,344,003; June 22; v. 275; p. 651.
Brake mechanism. J. F. O'Connor. No. 1,361,482; Dec. 7; v. 281; p. 102.
Brake mechanism. A. H. Peycke. No. 1,329,009; Jan. 27; v. 270; p. 527.
Brake mechanism. A. H. Peycke. No. 1,329,010; Jan. 27; v. 270; p. 527.
Brake mechanism. A. H. Peycke. No. 1,335,185; Mar. 30; v. 272; p. 787.
Brake mechanism. A. H. Peycke. No. 1,339,414; May 11; v. 274; p. 217.
Brake mechanism. W. H. Sauvage. No. 1,342,599; June 8; v. 275; p. 246.
Brake mechanism. O. Smith. No. 1,330,500; Feb. 10; v. 271; p. 247.
Brake mechanism. Equalizing. E. H. Belden. No. 1,337,815; Apr. 20; v. 273; p. 534.
Brake mechanism for hoisting machinery. H. Sawyer. No. 1,351,792; Sept. 7; v. 278; p. 15.
Brake mechanism, Hand-. R. H. Peterson. No. 1,333,092; Mar. 9; v. 272; p. 226.
Brake-operating means for trailers. H. C. Jarvis. No. 1,336,235; Apr. 6; v. 273; p. 100.
Brake-operating mechanism. J. A. Carney. No. 1,328,494; Jan. 20; v. 270; p. 401.
Brake-operating mechanism. S. F. Mason and A. M. Smith. No. 1,330,715; Feb. 10; v. 271; p. 287.
Brake-operating mechanism, Hand-. J. A. Carney. No. 1,328,493; Jan. 20; v. 270; p. 401.
Brake-pin. F. Schaefer. No. 1,344,596; June 22; v. 275; p. 767.
Brake-rigging. A. H. Peycke. No. 1,339,415; May 11; v. 274; p. 217.
Brake-rigging arrangement. A. H. Peycke. No. 1,339,413; May 11; v. 274; p. 217.
Brake-rod connections. Manufacture of jaws for. R. R. Weaver. No. 1,347,137; July 20; v. 276; p. 477.
Brake-shoe. W. Gibson. No. 1,349,126; Aug. 10; v. 277; p. 245.
Brake-shoe. W. Gibson. No. 1,349,127; Aug. 10; v. 277; p. 245.
Brake-shoe. W. Gibson. No. 1,349,128; Aug. 10; v. 277; p. 245.
Brake-shoe. W. Gibson. No. 1,349,129; Aug. 10; v. 277; p. 245.
Brake-shoe. C. H. Keyes. No. 1,353,914; Sept. 28; v. 278; p. 570.
Brake-shoe. W. B. Sproul. No. 1,355,708; Oct. 12; v. 279; p. 300.
Brake supporting and leveling device. A. H. Peycke. No. 1,335,187; Mar. 30; v. 272; p. 787.
Brake supporting and leveling device. A. H. Peycke. No. 1,339,416; May 11; v. 274; p. 217.
Brake-supporting means. A. H. Peycke. No. 1,335,188; Mar. 30; v. 272; p. 788.
Brake-valve handle, Reversible. W. V. Turner. No. 1,343,695; June 15; v. 275; p. 525.
Brake with friction-clutch. Free-wheel coaster-. H. Schmidt. No. 1,359,468; Nov. 16; v. 280; p. 548.
Brake with internal shoes, Drum-. R. Stephens. No. 1,327,068; Jan. 6; v. 270; p. 86.
Brakes, Controlling means for electromagnetic feed-reel. H. V. James. No. 1,353,401; Sept. 21; v. 278; p. 424.
Brakes, Equalizing device for trailer-. E. F. Kelley. No. 1,341,617; May 25; v. 274; p. 765.
Brakes, Means for supporting and leveling. A. H. Peycke. No. 1,335,186; Mar. 30; v. 272; p. 787.
Brakes, Suspension-rigging for clasp-. C. H. Williams. No. 1,334,123; Mar. 16; v. 272; p. 481.
Braking mechanism. H. S. Morton. No. 1,334,711; Mar. 23; v. 272; p. 636.
Bran, &c., Extracting. L. C. Reese. No. 1,331,125; Feb. 17; v. 271; p. 433.
Bran, &c., their nutritious components, Apparatus for extracting from. L. C. Reese. No. 1,334,552; Mar. 23; v. 272; p. 608.
Branding-machine. H. C. Wilkinson. No. 1,341,449; May 25; v. 274; p. 733.
Brass, aluminium, and similar metals or alloys by electric-resistance heating, Method and apparatus for uniting together pieces of. N. Prüstler. No. 1,351,684; Aug. 31; v. 277; p. 927.
Brass and similar scrap, Melting. W. B. Clark. No. 1,328,712; Jan. 20; v. 270; p. 441.
Brass and similar scrap, Method and means for melting. W. R. Clark. No. 1,328,714; Jan. 20; v. 270; p. 441.
Brass borings, brass turnings, &c., Separation and extraction of dust and iron from. W. Sowden. No. 1,332,078; Feb. 24; v. 271; p. 633.
Brass castings, Making sound. L. McCulloch. No. 1,351,051; Aug. 31; v. 277; p. 802.
Brassière. S. M. Clasby. No. 1,354,467; Oct. 5; v. 279; p. 4.
Brassière. C. V. Havens. No. 1,337,224; Apr. 20; v. 273; p. 423.
Brassière. M. B. Jackson. No. 1,361,155; Dec. 7; v. 281; p. 34.
Brassière. W. Kops. No. 1,352,974; Sept. 14; v. 278; p. 282.
Brassière. G. D. Leonard. No. 1,328,439; Jan. 20; v. 270; p. 390.
Brassière. A. E. Miller. No. 1,362,027; Dec. 14; v. 281; p. 256.
Brassière. B. C. Olson. No. 1,328,586; Jan. 20; v. 270; p. 419.
Brassière. M. W. Schloss. No. 1,327,408; Jan. 6; v. 270; p. 98.
Brassière and chemise. R. B. Oppenheimer. No. 1,351,437; Aug. 31; v. 277; p. 878.
Brassière and drawers. R. B. Oppenheimer. No. 1,354,207; Sept. 28; v. 278; p. 630.
Brassière-hook. G. T. Colter. No. 1,346,702; July 13; v. 276; p. 333.
Branding-iron. J. C. Garner. No. 1,357,230; Nov. 2; v. 280; p. 6.
Brazing and welding compound and preparing same. J. Klein. No. 1,349,966; Aug. 17; v. 277; p. 483.
Brazing-machine. R. J. Peck. No. 1,357,080; Oct. 26; v. 279; p. 657.
Breach-mat. J. R. Hewett. No. 1,345,771; July 6; v. 276; p. 87.
Bread-board. L. W. Serrell. No. 1,328,301; Jan. 20; v. 270; p. 364.
Bread-cutter. W. Chabaylo. No. 1,330,302; Feb. 10; v. 271; p. 210.
Bread cutter and carrier. J. F. Bertini. No. 1,345,118; June 29; v. 275; p. 932.
Bread cutter and stacker. Combined. J. Anstice. No. 1,341,452; May 25; v. 274; p. 734.
Bread-cutting machine. N. M. Lesiuk. No. 1,355,483; Oct. 12; v. 279; p. 257.
Bread-knife. S. F. Horvath. No. 1,342,383; June 1; v. 275; p. 150.
Bread-making and composition of materials for use as a bread-dough. R. L. Corby. No. 1,355,129; Oct. 12; v. 279; p. 187.
Bread-making apparatus. W. F. L. Fisch. No. 1,345,070; June 29; v. 275; p. 924.
Bread-making, Composition of materials adapted for use in. R. L. Corby. No. 1,355,127; Oct. 12; v. 279; p. 187.
Bread-making machinery. J. E. Pointon. No. 1,335,915; Apr. 6; v. 273; p. 40.
Bread. Manufacture of leavened. H. A. Kohman and R. Irvin. No. 1,345,680; July 6; v. 276; p. 69.
Bread-molding machine. J. Artkop. No. 1,339,087; May 4; v. 274; p. 82.

Digitized by Google

Bread-pan. S. Goodfriend. No. 1,336,292; Apr. 6; v. 273; p. 111.
Bread-slicing board. C. L. Leonard. No. 1,345,376; July 6; v. 276; p. 10.
Bread-slicing device. W. H. Garlock. No. 1,334,696; Mar. 23; v. 272; p. 634.
Bread-slicing machine. S. Biwoin. No. 1,336,726; Apr. 13; v. 273; p. 254.
Bread-toaster. P. J. and W. E. Maloney. No. 1,363,527; Dec. 28; v. 281; p. 640.
Bread, Type of. C. O. Johns and A. J. Finks. No. 1,356,988; Oct. 26; v. 279; p. 638.
Breakwater. G. Uriarte. No. 1,353,001; Sept. 14; v. 278; p. 287.
Breast-adjuster for preparation of dead bodies. J. G. Purcell. No. 1,354,684; Oct. 5; v. 279; p. 48.
Breast-drill. K. Drozd. No. 1,350,144; Aug. 17; v. 277; p. 516.
Breast-drill. P. J. Le Sueur. No. 1,343,370; June 15; v. 275; p. 461.
Breastpins, &c., Safety-catch for. J. J. White. No. 1,359,008; Nov. 16; v. 280; p. 459.
Breathing apparatus, Device for changing regenerating-cartridges of. G. Stolle. No. 1,337,026; Apr. 13; v. 273; p. 311.
Breathing apparatus, Mouthpiece for. J. T. Ryan. No 1,328,057; Jan. 13; v. 270; p. 281.
Breathing apparatus, Regenerator for. J. T. Ryan. No. 1,328,058; Jan. 13; v. 270; p. 282.
Breathing, Device to prevent mouth-. R. H. Jefferies. No. 1,354,652; Oct. 5; v. 279; p. 41.
Breech-bolt stop. G. Hammond. No. 1,350,366; Nov. 16; v. 280; p. 528.
Breech-closure. T. H. Eickhoff and O. V. Payne. No. 1,340,943; May 25; v. 274; p. 635.
Breech-closure. O. B. Graham. No. 1,340,891; May 25; v. 274; p. 625.
Breech lubrication. O. V. Payne. No. 1,352,414; Sept. 7; v. 278; p. 133.
Breech mechanism. H. J. Stambaugh and G. M. McCann. No. 1,348,594; Aug. 3; v. 277; p. 90.
Brick. F. W. Butterworth. No. 1,353,515; Sept. 21; v. 278; p. 447.
Brick. J. C. Emley. No. 1,330,249; Feb. 10; v. 271; p. 201.
Brick and block mold. S. V. Tsanoff. No. 1,338,468; Apr. 27; v. 273; p. 727.
Brick and making same. F. Orth. No. 1,363,264; Dec. 28; v. 281; p. 590.
Brick and method of making same, Paving-. F. W. Wood. No. 1,350,763; Aug. 24; v. 277; p. 684.
Brick and wall construction. T. C. McDermott. No. 1,330,884; Feb. 17; v. 271; p. 388.
Brick and wall construction, Hollow channel-. R. B. Cooper. No. 1,347,533; July 27; v. 276; p. 612.
Brick, Apparatus for burning. W. W. Dickinson, Jr. No. 1,355,821; Oct. 19; v. 279; p. 362.
Brick, Blown-glass vacuum-. A. E. D'Harlingue. No. 1,342,404; June 1; v. 275; p. 154.
Brick-cleaning machine. J. Collins and M. L. Askew. No. 1,355,035; Oct. 5; v. 279; p. 116.
Brick-cleaning machine. A. J. Harbison. No. 1,332,038; Feb. 24; v. 271; p. 626.
Brick handling and setting apparatus. G. E. Luce. No. 1,335,344; Mar. 30; v. 272; p. 817.
Brick-kiln wall. H. R. Straight. No. 1,360,245; Nov. 23; v. 280; p. 747.
Brick, Light-weight refractory. R. C. Purdy and M. F. Beecher. No. 1,345,632; July 6; v. 276; p. 59.
Brick-machine. O. Bartness. No. 1,358,925; Nov. 16; v. 280; p. 444.
Brick-machine. J. C. Dobbins. No. 1,352,056; Sept. 7; v. 278; p. 66.
Brick-machine. H. H. Goe. No. 1,344,880; June 29; v. 275; p. 887.
Brick-machine. O. J. Moussette. No. 1,335,071; Mar. 30; v. 272; p. 766.
Brick machinery. F. B. Lambert. No. 1,353,917; Sept. 28; v. 278; p. 571.
Brick mechanically in spaced regular relation as in kilns, Method and means for setting. W. W. Dickinson, Jr. No. 1,334,892; Mar. 23; v. 272; p. 672.
Brick-mold. R. A. Fontaine. No. 1,361,148; Dec. 7; v. 281; p. 33.
Brick or block, Glass or porcelain faced. G. T. Meyers. No. 1,335,384; Mar. 30; v. 272; p. 824.
Brick-yards, Elevator and conveyer apparatus for. C. A. Nelson. No. 1,360,010; Nov. 23; v. 280; p. 701.
Bricks and refractory linings, Composition of matter for. A. F. Quin and C. Lacey. No. 1,355,689; Oct. 12; v. 279; p. 296.
Bricks, Apparatus for making. H. W. B. Graham. No. 1,341,798; June 1; v. 275; p. 37.
Bricks mechanically in spaced relation as in kilns, Setting. W. W. Dickinson, Jr. No. 1,332,168; Feb. 24; v. 271; p. 649.
Bricks or blocks from natural deposits, Method and apparatus for cutting. E. B. Starr and H. E. Marsh. No. 1,353,188; Sept. 21; v. 278; p. 383.
Brickmaking-machine. C. Crouch. No. 1,331,323; Feb. 17; v. 271; p. 469.
Brickmaking-machine. A. O. Dupuy. No. 1,363,853; Dec. 28; v. 281; p. 704.
Brickmaking-machine. D. J. Strickland. No. 1,344,278; June 22; v. 275; p. 704.
Brickmaking-machine. F. H. Walker. No. 1,350,628; Aug. 24; v. 277; p. 658.
Brickmaking machine, Automatic. D. J. Strickland. No. 1,344,099; June 22; v. 275; p. 669.
Bridge. H. Andresen. No. 1,337,187; Apr. 20; v. 273; p. 416.
Bridge-articulator, Anatomical. L. Greenfield. No. 1,353,039; Sept. 14; v. 278; p. 294.
Bridge, Lift-. A. A. Henderson. No. 1,352,450; Sept. 14; v. 278; p. 176.
Bridge-reinforcement. A. G. Needs. No. 1,344,646; June 29; v. 275; p. 842.
Bridge-warning. W. Strimple. No. 1,360,992; Nov. 30; v. 280; p. 961.
Bridges, &c., Reinforcing. C. G. Mortenson. No. 1,331,871; Feb. 24; v. 271; p. 595.
Bridle. J. C. Jardine, and J. Dickie. No. 1,341,715; June 1; v. 275; p. 20.
Bridle and halter. C. S. Canter. No. 1,351,620; Aug. 31; v. 277; p. 914.
Bridle attachment. C. H. Loomis. No. 1,355,057; Oct. 5; v. 279; p. 121.
Bridle-bit. B. E. Hensley. No. 1,335,964; Apr. 6; v. 273; p. 49.
Bridle, Bitless. E. P. De France. No. 1,333,474; Mar. 9; v. 272; p. 298.
Bridle-strap-attaching tip. W. F. Ohst. No. 1,359,420; Nov. 16; v. 280; p. 539.
Brief and other carrying case. M. and H. W. Axelman, No. 1,329,574; Feb. 3; v. 271; p. 43.
Brines, Separating potassium compound from. H. W. Morse. No. 1,343,401; June 15; v. 275; p. 467.
Brines, Separation of constituents of. H. W. Morse. No. 1,343,400; June 15; v. 275; p. 466.
Brinnell hardness-tester, Portable. A. Ringland. No. 1,348,897; Aug. 10; v. 277; p. 200.
Briquet and binder for same. L. A. Kingkinney. No. 1,359,074; Nov. 16; v. 280; p. 471.
Briquet-drier. R. S. Plummer. No. 1,352,377; Sept. 7; v. 278; p. 127.
Briquet-machine. G. R. Schleier. No. 1,363,536; Dec. 28; v. 281; p. 642.
Briquet-molding machine. D. H. Bibb. No. 1,347,361; July 20; v. 276; p. 522.
Briquets, Manufacturing. C. H. Smith. No. 1,334,180; Mar. 16; v. 272; p. 491.
Briqueting-machine. T. Gilmore, Jr. No. 1,332,938; Mar. 9; v. 272; p. 206.
Briqueting-press. H. J. Ekberg. No. 1,330,484; Feb. 10; v. 271; p. 235.
Bristles, Assorting. J. Morrison, Jr. No. 1,347,750; July 27; v. 276; p. 657.
Bristles, hair and the like, Sorting into lengths or dragging. A. H. Timmis. No. 1,347,921; July 27; v. 276; p. 690.
Broach. A. F. Donaldson. No. 1,336,621; Apr. 13; v. 273; p. 233.
Broach. J. Oakley. No. 1,359,831; Nov. 23; v. 280; p. 665.
Broach. J. Oakley. No. 1,359,832; Nov. 23; v. 280; p. 665.
Broach-operating mechanism. R. R. Lapointe. No. 1,362,536; Dec. 14; v. 281; p. 356.
Broach, Outside. A. F. Donaldson. No. 1,361,568; Dec. 7; v. 281; p. 119.
Broach, Reservoir-. D. O. Duncan. No. 1,327,149; Jan. 6; v. 270; p. 50.
Broaching. H. E. Smith. No. 1,359,541; Nov. 23; v. 280; p. 608.
Broaching-machine. H. L. Hanson. No. 1,328,281; Jan. 20; v. 270; p. 360.
Broiler. G. E. Reed. No. 1,361,183; Dec. 7; v. 281; p. 40.
Broiler, Electric. W. S. Hadaway, Jr. No. 1,345,004; June 29; v. 275; p. 910.
Broilers, Fire-arch for. M. Liptak. No. 1,347,514; July 27; v. 276; p. 609.
Broiling-rack. N. Godfrey. No. 1,331,058; Feb. 17; v. 271; p. 422.
Bromates, Manufacture of. C. W. Jones. No. 1,343,918; June 22; v. 275; p. 635.
Bromin, Recovering. H. H. Dow. No. 1,354,472; Oct. 5; v. 279; p. 5.
Bronze powder. M. Baer. No. 1,347,928; July 27; v. 276; p. 691.
Bronze powder and making same. M. Baer. No. 1,347,927; July 27; v. 276; p. 691.
Bronzing-machine. A. W. Brock. No. 1,354,018; Sept. 28; v. 278; p. 591.
Brooch, Finishing-. F. J. Lapointe. No. 1,339,657; May 11; v. 274; p. 264.
Brooch safety-catch. B. Boecacini. No. 1,338,280; Apr. 27; v. 273; p. 692.
Brooches, &c., Ball safety-catch for. E. B. Peterson. No. 1,328,965; Jan. 27; v. 270; p. 519.
Brooder. M. C. Baron. No. 1,329,494; Feb. 3; v. 271; p. 28.
Brooder. W. D. Insko. No. 1,350,971; Aug. 24; v. 277; p. 723.

Digitized by Google

Brooder. C. H. Landenberger. No. 1,339,264; May 4; v. 274; p. 113.
Brooder. A. F. Shuler. No. 1,346,688; July 13; v. 276; p. 330.
Brooder, Chicken-. P. E. Walker. No. 1,349,175; Aug. 10; v. 277; p. 255.
Brooder, Fireless chicken-. A. Krohn. No. 1,327,104; Jan. 6; v. 270; p. 42.
Brooder, Pig-. A. W. Beaman. No. 1,328,810; Jan. 27; v. 270; p. 488.
Broom. C. J. Baird. No. 1,337,503; Apr. 20; v. 273; p. 475.
Broom. S. Cantor and H. Gonen. No. 1,335,654; Mar. 30; v. 272; p. 875.
Broom. W. M. Christopher. No. 1,329,826; Feb. 3; v. 271; p. 90.
Broom. W. H. Forester. No. 1,358,369; Nov. 9; v. 280; p. 287.
Broom. J. A. Johanson. No. 1,335,116; Mar. 30; v. 272; p. 774.
Broom. W. E. Killinger and F. S. Stewart. No. 1,361,872; Dec. 14; v. 281; p. 225.
Broom. W. E. Killinger and F. S. Stewart. No. 1,361,873; Dec. 14; v. 281; p. 225.
Broom. J. T. Taylor. No. 1,357,913; Nov. 2; v. 280; p. 136.
Broom. T. A. Voss. No. 1,341,526; May 25; v. 274; p. 748.
Broom-corn and maize cutter. J. E. Pelnar. No. 1,339,282; May 4; v. 274; p. 116.
Broom-corn machines, Conveying mechanism for. G. E. Rudolph. No. 1,344,006; June 22; v. 275; p. 651.
Broom-corn-sizing machines, Scraping attachment for. W. M. Christopher. No. 1,344,332; June 22; v. 275; p. 715.
Broom-hanger. G. B. Keplinger. No. 1,350,654; Aug. 24; v. 277; p. 663.
Broom-hanger. G. B. Keplinger. No. 1,362,996; Dec. 21; v. 281; p. 496.
Broom-head and filler therefor, Separable. M. Rasmussen. No. 1,350,520; Aug. 24; v. 277; p. 637.
Broom-holder. H. E. Fry and W. O. Keiter. No. 1,329,394; Feb. 3; v. 271; p. 10.
Broom-holder. G. Gentslinger. No. 1,351,638; Aug. 31; v. 277; p. 918.
Broom-holder. C. Gustafson. No. 1,349,274; Aug. 10; v. 277; p. 275.
Broom-holder. S. C. Kindig. No. 1,329,186; Jan. 27; v. 270; p. 560.
Broom-holder. H. D. Neff. No. 1,350,514; Aug. 24; v. 277; p. 636.
Broom-holder. I. N. Van Sickles. No. 1,332,086; Feb. 24; v. 271; p. 634.
Broom, Reinforced. S. Yamamoto. No. 1,344,784; June 29; v. 275; p. 869.
Broom, Reversible. P. Devarco. No. 1,345,353; July 6; v. 276; p. 6.
Brooms, Cleaning attachment for whisk-. H. S. Webster. No. 1,341,091; May 25; v. 274; p. 664.
Brooms, Duster attachment for. D. R. Kelly. No. 1,339,767; May 11; v. 274; p. 285.
Brush. J. Bergsten. No. 1,360,077; Nov. 23; v. 280; p. 713.
Brush. W. P. Braun. No. 1,337,819; Apr. 20; v. 273; p. 535.
Brush. C. E. Cazel and J. W. Le Craw. No. 1,340,931; May 25; v. 274; p. 632.
Brush. J. Gasser. No. 1,340,040; May 11; v. 274; p. 336.
Brush. H. Hunt. No. 1,352,369; Sept. 7; v. 278; p. 125.
Brush. W. E. Hughes. No. 1,350,652; Aug. 24; v. 277; p. 662.
Brush. T. W. Johnson. No. 1,339,894; May 11; v. 274; p. 309.
Brush. J. B. Mason, Jr. No. 1,356,080; Oct. 19; v. 279; p. 413.
Brush. J. Morrison, Jr. No. 1,347,648; July 27; v. 276; p. 635.
Brush. W. C. Read. No. 1,330,953; Feb. 17; v. 271; p. 402.
Brush. C. Schatte. No. 1,353,184; Sept. 21; v. 278; p. 382.
Brush. C. Smith. No. 1,363,282; Dec. 28; v. 281; p. 593.
Brush. S. Speirs. No. 1,352,228; Sept. 7; v. 278; p. 99.
Brush and comb, Combined. I. Bojko. No. 1,359,670; Nov. 23; v. 280; p. 613.
Brush and comb, Combined. J. Zielisko. No. 1,362,830; Dec. 21; v. 281; p. 465.
Brush and making same. A. H. Henning. No. 1,326,929; Jan. 6; v. 270; p. 9.
Brush and making same. J. B. Kirby. No. 1,333,663; Mar. 16; v. 272; p. 394.
Brush and shaving-stick holder, Combined shaving-. J. O. Christenson. No. 1,326,914; Jan. 6; v. 270; p. 6.
Brush and soap-holder, Combined shaving-. J. McGuire. No. 1,358,565; Nov. 9; v. 280; p. 327.
Brush and weed cutter, Adjustable. W. Dryer. No. 1,357,855; Nov. 2; v. 280; p. 125.
Brush, Automatic. W. H. Barrett. No. 1,331,465; Feb. 17; v. 271; p. 496.
Brush, Automobile shoe-. B. C. Rydberg. No. 1,333,634; Mar. 16; v. 272; p. 389.
Brush, Boot-. T. A. Neelin. No. 1,327,288; Jan. 6; v. 270; p. 76.
Brush, Cleaning. C. M. Brown. No. 1,349,261; Aug. 10; v. 277; p. 273.
Brush, Cleaning-. W. R. Menderhall and N. Tennent. No. 1,360,307; Nov. 30; v. 280; p. 827.
Brush, Combination-. W. S. Dunaway. No. 1,339,745; May 11; v. 274; p. 280.
Brush, Combination fountain-. M. Zaboy. No. 1,342,492; June 8; v. 275; p. 225.
Brush, Combination washing-. A. Gabryszek. No. 1,358,195; Nov. 9; v. 280; p. 252.
Brush, Commutator-. W. C. Hood. No. 1,352,408; Sept. 7; v. 278; p. 132.
Brush-cover. G. A. Loeben. No. 1,341,329; May 25; v. 274; p. 710.
Brush-cutter. F. Gross. No. 1,346,197; July 13; v. 276; p. 232.
Brush-cutter. F. Gross. No. 1,356,619; Oct. 26; v. 279; p. 566.
Brush-cutter and ground-evener. F. Pomije. No. 1,346,382; July 13; v. 276; p. 270.
Brush, Doffing-. J. Wooldridge. No. 1,344,843; June 29; v. 275; p. 880.
Brush for powdered soap, Lather-. F. McLaughlin. No. 1,354,053; Sept. 28; v. 278; p. 599.
Brush for suction-cleaners. H. E. Hoover. No. 1,332,897; Mar. 9; v. 272; p. 189.
Brush, Fountain-. J. Chmielinski. No. 1,351,371; Aug. 31; v. 277; p. 866.
Brush, Fountain-. R. Church. No. 1,337,998; Apr. 27; v. 273; p. 639.
Brush, Fountain-. W. J. Dunn. No. 1,335,671; Mar. 30; v. 272; p. 878.
Brush, Fountain-. C. A. Garvey. No. 1,359,690; Nov. 23; v. 280; p. 637.
Brush, Fountain-. W. Grace. No. 1,340,043; May 11; v. 274; p. 337.
Brush, Fountain-. W. Grace. No. 1,362,937; Dec. 21; v. 281; p. 485.
Brush, Fountain-. E. Laroche. No. 1,350,415; Aug. 24; v. 277; p. 616.
Brush, Fountain-. J. Lukaszewski. No. 1,349,517; Aug. 10; v. 277; p. 323.
Brush, Fountain-. W. J. Wright. No. 1,348,681; Aug. 3; v. 277; p. 107.
Brush, Fountain mucilage-. P. I. Venard. No. 1,353,679; Sept. 21; v. 278; p. 481.
Brush, Fountain shaving-. B. C. Palmer. No. 1,359,733; Nov. 23; v. 280; p. 645.
Brush, Fountain shoe-. C. J. Mills. No. 1,340,283; May 18; v. 274; p. 439.
Brush-handle. R. T. Greene. No. 1,327,597; Jan. 6; v. 270; p. 134.
Brush-hanger and pad-remover. M. P. Benson and M. M. Wiener. No. 1,352,346; Sept. 7; v. 278; p. 121.
Brush-holder. M. Afranel. No. 1,343,381; June 15; v. 275; p. 463.
Brush-holder. J. S. Dean. No. 1,361,968; Dec. 14; v. 281; p. 245.
Brush-holder. J. S. Dean. No. 1,363,722; Dec. 28; v. 281; p. 678.
Brush-holder. G. B. Evans. No. 1,354,899; Oct. 5; v. 279; p. 90.
Brush-holder. C. E. Hecht. No. 1,328,162; Jan. 13; v. 270; p. 301.
Brush-holder. H. G. Jungk. No. 1,362,007; Dec. 14; v. 281; p. 253.
Brush-holder. P. N. Snyder. No. 1,335,616; Mar. 30; v. 272; p. 867.
Brush holder, Shaving-. L. A. Amis. No. 1,359,650; Nov. 23; v. 280; p. 628.
Brush, Interchangeable air-. R. F. Hamaker and W. H. Virgin. No. 1,333,488; Mar. 9; v. 272; p. 300.
Brush, Irrigated. R. H. Baker. No. 1,336,604; Apr. 13; v. 273; p. 230.
Brush, Lather-. M. B. Behrman. No. 1,353,984; Sept. 28; v. 278; p. 584.
Brush, Liquid-feeding. E. B. Williams. No. 1,329,944; Feb. 3; v. 271; p. 112.
Brush-making machine. C. E. Fisher. No. 1,356,915; Oct. 26; v. 279; p. 624.
Brush-making machine. J. D. Gladwin. No. 1,359,165; Nov. 16; v. 280; p. 488.
Brush-making machines, Mouthpiece for. J. W. Mayer. No. 1,349,845; Aug. 17; v. 277; p. 459.
Brush or sprayer, Pneumatic. G. E. Perry. No. 1,332,996; Mar. 9; v. 272; p. 208.
Brush, Pen-. A. F. Brandenburg. No. 1,353,625; Sept. 21; v. 278; p. 470.
Brush, Pneumatic paint-. F. Polcho. No. 1,336,316; Apr. 6; v. 273; p. 115.
Brush, Receptacle-cleaning. J. M. Rude. No. 1,362,822; Dec. 21; v. 281; p. 464.
Brush, Reversible. W. F. Kuck. No. 1,345,198; June 29; v. 275; p. 947.
Brush, Rotary. C. E. Frost. No. 1,347,153; July 20; v. 276; p. 481.
Brush, Sanitary. F. H. Bachman. No. 1,332,156; Feb. 24; v. 271; p. 646.

Digitized by Google

Brush, Scrub-. J. J. Lally. No. 1,329,416; Feb. 3; v. 271; p. 13.
Brush, Scrubbing-. S. E. Burkett. No. 1,355,650; Oct. 12; v. 279; p. 288.
Brush, Shaving-. H. L. Austin. No. 1,355,026; Oct. 5; v. 279; p. 115.
Brush, Shaving-. J. T. Cooney. No. 1,338,424; Apr. 27; v. 273; p. 719.
Brush, Shaving-. F. Eisenhut. No. 1,356,134; Oct. 19; v. 279; p. 424.
Brush, Shaving-. F. Hyde. No. 1,335,896; Apr. 6; v. 273; p. 36.
Brush, Shaving-. W. H. McEvilla. No. 1,339,065; May 4; v. 274; p. 78.
Brush, Shaving-. T. McMonagle. No. 1,344,050; June 22; v. 275; p. 660.
Brush, Shaving-. L. Tobias. No. 1,358,597; Nov. 9; v. 280; p. 333.
Brush, Shine-removing. A. J. Rheinberger. No. 1,359,104; Nov. 16; v. 280; p. 476.
Brush, Shoe shining or polishing. G. A. Reitzel. No. 1,342,971; June 8; v. 275; p. 319.
Brush, Spraying-. J. M. Wilson. No. 1,333,146; Mar. 9; v. 272; p. 236.
Brush structure. H. H. Wait. No. 1,363,758; Dec. 28; v. 281; p. 684.
Brush, Timer-. F. A. Godley. No. 1,333,711; Mar. 16; v. 272; p. 403.
Brush, Vacuum cleaning-. H. W. Wasenska. No. 1,345,424; July 6; v. 276; p. 19.
Brush, Vehicle - wheel - spoke. F. R. McDonald. No. 1,332,266; Mar. 2; v. 272; p. 17.
Brushes, Attachment for. J. F. Mills. No. 1,362,811; Dec. 21; v. 281; p. 462.
Brushes, Mounting for dynamo-. H. E. Borger. No. 1,342,583; June 8; v. 275; p. 243.
Brushes, Scraper for clothes-. W. E. Thomson. No. 1,337,856; Apr. 20; v. 273; p. 542.
Brushes, Shunt attachment for. F. D. Newbury. No. 1,351,059; Aug. 31; v. 277; p. 803.
Brushing and polishing apparatus, Driving mechanism for. W. Wlodkowski. No. 1,336,117; Apr. 6; v. 273; p. 78.
Brushing-machine. S. Radimak. No. 1,352,527; Sept. 14; v. 278; p. 192.
Bubble-blower. C. U. Tyrrell. No. 1,344,104; June 22; v. 275; p. 670.
Bubble-pipe. J. L. Gilchrist. No. 1,330,701; Feb. 10; v. 271; p. 285.
Buck, Motor-. O. M. Crays. No. 1,344,385; June 22; v. 275; p. 725.
Bucket. L. and W. Schiek. No. 1,328,458; Jan. 20; v. 270; p. 394.
Bucket, Automatic water-. J. O. Bewan. No. 1,358,357; Nov. 9; v. 280; p. 285.
Bucket, Charging-. L. H. Berry. No. 1,333,152; Mar. 9; v. 272; p. 287.
Bucket, Clam-shell. H. Le Gear. No. 1,342,996; June 8; v. 275; p. 325.
Bucket-closure. I. Hirsohn. No. 1,328,672; Jan. 20; v. 270; p. 434.
Bucket-ear. C. W. Schworm. No. 1,339,584; May 11; v. 274; p. 250.
Bucket elevator. D. Cole. No. 1,332,426; Mar. 2; v. 272; p. 48.
Bucket elevator. F. B. While and T. O'Sullivan. No. 1,357,919; Nov. 2; v. 280; p. 137.
Bucket, Excavating-. W. M. Venable. No. 1,344,969; June 29; v. 275; p. 903.
Bucket, Excavating-. W. M. Venable. No. 1,346,999; July 20; v. 276; p. 451.
Bucket, Excavating-. W. M. Venable. No. 1,350,124; Aug. 17; v. 277; p. 513.
Bucket, Gathering conveyer-. H. W. Sargent. No. 1,351,791; Sept. 7; v. 278; p. 15.
Bucket, Grab-. A. F. Case. No. 1,331,455; Feb. 17; v. 271; p. 495.
Bucket, Grab-. F. H. Williams. No. 1,329,868; Feb. 3; v. 271; p. 98.
Bucket hanger, Paint-. C. M. Garst. No. 1,339,025; May 4; v. 274; p. 69.
Bucket-hoist. G. Anderson. No. 1,332,192; Mar. 2; v. 272; p. 8.
Bucket, Live-bait. F. G. Haschke. No. 1,327,040; Jan. 6; v. 270; p. 31.
Bucket, Sanitary non-spillable milk-. P. W. Pick. No. 1,342,569; June 8; v. 275; p. 240.
Bucket, Well-. C. D. Behan. No. 1,336,881; Apr. 13; v. 273; p. 283.
Bucket, Well-. C. D. Behan. No. 1,342,414; June 8; v. 275; p. 209.
Bucket, Well-. J. A. Van Pelt. No. 1,350,348; Aug. 24; v. 277; p. 602.
Buckets, Tooth construction for digging-. J. W. Kittredge. No. 1,333,852; Mar. 16; v. 272; p. 429.
Buckets, Tripping device for cableway-. F. C. Carstarphen. No. 1,331,622; Feb. 24; v. 271; p. 547.
Buckle. A. A. Abizaid. No. 1,337,181; Apr. 20; v. 273; p. 415.
Buckle. S. Akst. No. 1,362,459; Dec. 14; v. 281; p. 340.
Buckle. F. Cocker. No. 1,328,617; Jan. 20; v. 270; p. 424.
Buckle. T. C. Erpenbeck. No. 1,353,331; Sept. 21; v. 135; p. 410.
Buckle. C. H. Grings. No. 1,341,315; May 25; v. 274; p. 707.
Buckle. W. E. Guyot. No. 1,360,937; Nov. 30; v. 280; p. 949.
Buckle. E. C. Jones. No. 1,327,434; Jan. 6; v. 270; p. 103.
Buckle. A. Leighton. No. 1,332,628; Mar. 2; v. 272; p. 87.
Buckle. C. S. MacDonald. No. 1,347,171; July 20; v. 276; p. 484.
Buckle. O. L. Raymer. No. 1,347,827; July 27; v. 276 p. 671.
Buckle. J. H. Reed. No. 1,362,738; Dec. 21; v. 281; p. 447.
Buckle. R. Bobins. No. 1,362,668; Dec. 21; v. 281; p. 434.
Buckle. H. N. Roden. No. 1,344,652; June 29; v. 275; p. 843.
Buckle. J. F. Rogers. No. 1,355,621; Oct 12; v. 279; p. 283.
Buckle. F. A. Russ. No. 1,338,535; Apr. 27; v. 273; p. 740.
Buckle. F. A. Russ. No. 1,338,536; Apr. 27; v. 273; p. 740.
Buckle. J. U. Russ. No. 1,337,965; Apr. 20; v. 273; p. 564.
Buckle. E. W. Rutherford. 1,346,979; July 20; v. 276; p. 447.
Buckle. W. A. Schleicher. No. 1,358,991; Nov. 16; v. 280; p. 456.
Buckle. A. J. Sterne. No. 1,340,302; May 18; v. 274; p. 442.
Buckle. A. J. Sterne. No. 1,340,303; May 18; v. 274; p. 443.
Buckle and strap. B. R. Jolly. No. 1,333,421; Mar. 9; v. 272; p. 287.
Buckle, Apparel-. A. H. Kerngood. No. 1,333,260; Mar. 9; v. 272; p. 257.
Buckle, Bale-tie. J. T. A. Todd. No. 1,328,698; Jan. 20; v. 270; p. 439.
Buckle, Belt-. W. G. Ahrendt. No. 1,354,450; Sept. 28; v. 278; p. 679.
Buckle, Belt-. D. S. Bears. No. 1,352,937; Sept. 14; v. 278; p. 274.
Buckle, Belt-. S. O. Bigney. No. 1,360,360; Nov. 30; v. 280; p. 837.
Buckle, Belt-. H. E. Billings. No. 1,350,207; Aug. 17; v. 277; p. 529.
Buckle, Belt-. S. Buchsbaum. No. 1,340,821; May 18; v. 274; p. 541.
Buckle, Belt-. L. H. Crandall. No. 1,347,324; July 20; v. 276; p. 515.
Buckle, Belt-. J. Heberling. No. 1,363,318; Dec. 28; v. 281; p. 600.
Buckle, Belt-. R. C. Kadow. No. 1,341,648; June 1; v. 275; p. 7.
Buckle, Belt-. F. W. Lewis. No. 1,350,076; Aug. 17; v. 277; p. 504.
Buckle, Belt-. F. W. Lewis. No. 1,360,123; Nov. 23; v. 280; p. 723.
Buckle, Belt-. W. J. Morse. No. 1,344,955; June 29; v. 275; p. 901.
Buckle, Belt-. C. A. Reule. No. 1,346,795; July 13; v. 276; p. 353.
Buckle, Belt. J. H. Tabler. No. 1,357,483; Nov. 2; v. 280; p. 53.
Buckle for garments, Button-. C. A. Martin. No. 1,354,260; Sept. 28; v. 278; p. 642.
Buckle for leaf-springs, Wedge-lock. N. Waterhouse. No. 1,352,488; Sept. 14; v. 278; p. 184.
Buckle, Harness-. W. C. Reed. No. 1,345,956; July 6; v. 276; p. 124.
Buckle or clasp slide. R. King. No. 1,329,085; Jan. 27; v. 270; p. 541.
Buckle, Overall-suspender. T. L. Miller. No. 1,358,384; Nov. 9; v. 280; p. 291.
Buckle, Self-acting pressure-. L. P. Vaisset, called Vincet. No. 1,361,647; Dec. 7; v. 281; p. 134.
Buckle, Separable. A. T. Van Alstyn. No. 1,357,662; Nov. 2; v. 280; p. 87.
Buckle, Trace-. J. G. Pockert. No. 1,340,792; May 18; v. 274; p. 535.
Buckrake and stacker. A. M. MacKersie. No. 1,343,398; June 15; v. 275; p. 466.
Buffer. S. G. Lewis and G. W. Daum. No. 1,336,527; Apr. 13; v. 273; p. 215.
Buffer. J. T. Thompson. No. 1,351,141; Aug. 31; v. 277; p. 819.
Buffer. Adjustable attachment-. G. A. Lyon. No. 1,357,507; Nov. 2; v. 280; p. 57.
Buffing and cementing machine. C. W. Steele. No. 1,332,929; Mar. 9; v. 272; p. 195.
Buffing and polishing wheel. H. L. Zucker. No. 1,353,207; Sept. 21; v. 278; p. 387.
Buffing-machine. L. Schulte. No. 1,329,551; Feb. 3; v. 271; p. 39.
Buggy-body. F. Tucker. No. 1,343,068; June 8; v. 275; p. 339.

Digitized by Google

Building. E. G. Perrot. No. 1,342,062; June 1; v. 275; p. 88.
Building and paving block. H. S. Wheeler. (Reissue.) No. 14,904; June 29; v. 275; p. 976.
Building-block. J. R. Baumann. No. 1,356,590; Oct. 26; v. 279; p. 560.
Building-block. J. R. Baumann. No. 1,356,591; Oct. 26; v. 279; p. 560.
Building-block. W. T. Cook. No. 1,336,025; Apr. 6; v. 273; p. 61.
Building-block. W. L. Cusick. No. 1,334,599; Mar. 23; v. 272; p. 616.
Building-block. M. L. King. No. 1,350,656; Aug. 24; v. 277; p. 663.
Building-block. F. J. Kramer. No. 1,362,045; Dec. 21; v. 281; p. 507.
Building-block, Hollow ceramic. J. J. Cosgrove. No. 1,360,183; Nov. 23; v. 280; p. 735.
Building-block-molding machine. G. C. Debay. No. 1,362,928; Dec. 21; v. 281; p. 483.
Building construction. C. J. Aschauer. No. 1,353,702; Sept. 21; v. 278; p. 485.
Building construction. L. K. Davis. No. 1,362,399; Dec. 14; v. 281; p. 329.
Building construction. T. Depatie. No. 1,339,596; May 11; v. 274; p. 252.
Building construction. C. V. Eades. No. 1,334,600; Mar. 23; v. 272; p. 616.
Building construction. W. H. Evers. No. 1,335,886; Apr. 6; v. 273; p. 84.
Building construction. E. P. Garner. No. 1,345,164; June 29; v. 275; p. 941.
Building construction. H. Hauss. No. 1,339,388; May 11; v. 274; p. 212.
Building construction. R. Z. Hopkins. No. 1,350,805; Aug. 24; v. 277; p. 692.
Building construction. J. E. Jennings. No. 1,342,021; June 1; v. 275; p. 80.
Building construction. J. Lally. No. 1,329,614; Feb. 3; v. 271; p. 50.
Building construction. E. A. Laughlin. No. 1,353,998; Sept. 28; v. 278; p. 588.
Building construction. F. Lichtenberg and M. M. McCarthy. No. 1,348,018; July 27; v. 276; p. 709.
Building construction. E. Nottebohm. No. 1,345,871; July 6; v. 276; p. 100.
Building construction. D. C. Patterson. No. 1,349,850; Aug. 17; v. 277; p. 460.
Building construction. A. A. Richardson. No. 1,330,347; Feb. 10; v. 271; p. 319.
Building construction. M. R. Sheen. No. 1,336,789; Apr. 13; v. 273; p. 266.
Building construction. P. M. Stewart. No. 1,360,812; Nov. 30; v. 280; p. 926.
Building construction. J. R. Witzel. No. 1,362,069; Dec. 14; v. 281; p. 265.
Building construction and joint. J. W. Warner and H. H. Weemhoff. No. 1,362,764; Dec. 21; v. 281; p. 452.
Building construction, Material for. H. W. White. No. 1,353,619; Sept. 21; v. 278; p. 468.
Building construction. Reinforced. P. M. Stewart. No. 1,360,979; Nov. 30; v. 280; p. 958.
Building construction, System of. T. Palmer. No. 1,357,818; Nov. 2; v. 280; p. 118.
Building construction, Trussed. J. O. Madison. No. 1,344,767; June 29; v. 275; p. 866.
Building constructions, Sound-insulating devices for. H. B. Wheeler. No. 1,342,610; June 8; v. 275; p. 247.
Building, Convertible. A. W. Gould. No. 1,356,709; Oct. 26; v. 279; p. 583.
Building device. O. H. Martinsen. No. 1,361,886; Dec. 14; v. 281; p. 228.
Building fabric. W. C. Coryell. No. 1,354,024; Sept. 28; v. 278; p. 593.
Building, Knockdown. C. M. Goodrich. No. 1,350,493; Aug. 24; v. 277; p. 632.
Building material. M. Baer. No. 1,357,375; Nov. 2; v. 280; p. 33.
Building material. H. A. Brockhaus. No. 1,348,082; July 27; v. 276; p. 723.
Building material. T. J. Mullin. No. 1,362,888; Dec. 21; v. 281; p. 476.
Building, Portable. R. S. Bassett. No. 1,337,745; Apr. 20; v. 273; p. 522.
Building, Portable. J. R. Howard. No. 1,354,753; Oct. 5; v. 279; p. 61.
Building-protector. R. Kirchner. No. 1,344,540; June 22; v. 275; p. 756.
Building, Sectional. R. C. Rowan. No. 1,340,561; May 18; v. 274; p. 492.
Building-slabs, Machine for the manufacture of. F. M. Johnson. No. 1,361,064; Dec. 7; v. 281; p. 17.
Building-stake. H. J. Victoria. No. 1,336,004; Apr. 6; v. 273; p. 57.
Building-stones, Machine for the production of hollow. E. Keel. No. 1,359,899; Nov. 23; v. 280; p. 678.
Building, Storage-. F. E. d'Humy. No. 1,349,664; Aug. 17; v. 277; p. 424.
Building, Storage-. G. F. Hurt. No. 1,330,709; Feb. 10; v. 271; p. 286.
Building structure. C. R. Gondie. No. 1,363,407; Dec. 28; v. 281; p. 616.
Building structure. J. Harkness. No. 1,350,019; Aug. 17; v. 277; p. 492.
Building structure. D. J. Murnane. No. 1,352,678; Sept. 14; v. 278; p. 223.
Building structure. F. A. Noullet. No. 1,334,672; Mar. 23; v. 272; p. 629.
Building structure. F. P. Simmen. No. 1,357,191; Oct. 26; v. 279; p. 677.
Building structure, Metallic. L. H. Whittredge. No. 1,356,950; Oct. 26; v. 279; p. 631.
Building unit. C. M. Goodrich. No. 1,340,949; May 25; v. 274; p. 636.
Buildings, Joint for sectional. J. B. Een. No. 1,357,626; Nov. 2; v. 280; p. 80.
Built-up roofing. J. O. Boylan. No. 1,363,559; Dec. 28; v. 281; p. 647.
Bulkhead. B. B. Crane. No. 1,336,892; Apr. 13; v. 273; p. 286.
Bulkhead structure. J. Gerritson and W. L. Rieck. No. 1,350,603; Aug. 24; v. 277; p. 653.
Bull-wheel. H. J. Lockhart. No. 1,333,122; Mar. 9; v. 272; p. 232.
Bull-wheel. P. Yorke. No. 1,341,096; May 25; v. 274; p. 665.
Bullet-making machinery. W. Eckford. No. 1,330,853; Feb. 17; v. 271; p. 381.
Bullet, Spot-light. W. L. Clay. No. 1,337,343; Apr. 20; v. 273; p. 446.
Bullet, Tracer and incendiary. W. L. Clay. No. 1,333,834; Mar. 16; v. 272; p. 426.
Bullets from hoppers, Feeding. E. T. Moore. No. 1,332,993; Mar. 9; v. 272; p. 208.
Bullets, Machine for dropping. C. F. Benjamin. No. 1,340,432; May 18; v. 274; p. 468.
Bulletin, Auto-service. H. L. Fulton. No. 1,336,739; Apr. 13; v. 273; p. 256.
Bumper. J. J. Condran. No. 1,339,167; May 4; v. 274; p. 96.
Bumper. J. R. Gammeter. No. 1,329,339; Jan. 27; v. 270; p. 587.
Bumper. A. Mayer. No. 1,329,670; Feb. 3; v. 271; p. 61.
Bumper. W. H. Moore, Jr. No. 1,341,572; May 25; v. 274; p. 757.
Bumper. R. T. Newton. No. 1,343,740; June 15; v. 275; p. 534.
Bumper. R. T. Newton. No. 1,346,667; July 13; v. 276; p. 326.
Bumper. R. T. Newton. No. 1,346,668; July 13; v. 276; p. 326.
Bumper. P. Riedele. No. 1,345,106; June 29; v. 275; p. 929.
Bumper. J. H. Sager. No. 1,348,961; Aug. 10; v. 277; p. 213.
Bumper. J. H. Sager. No. 1,348,962; Aug. 10; v. 277; p. 213.
Bumper-attaching bracket. A. J. H. Kuhsiek. No. 1,329,667; Feb. 3; v. 271; p. 60.
Bumper-attaching bracket. A. L. McGregor. No. 1,359,185; Nov. 16; v. 280; p. 491.
Bumper attachment. W. G. Pancoast and W. J. Grotenhuis. No. 1,344,649; June 29; v. 275; p. 843.
Bumper-bar and support therefor. J. Di Salvo. No. 1,363,850; Dec. 28; v. 281; p. 703.
Bumper-bracket. G. F. Discher. No. 1,342,374; June 1; v. 275; p. 148.
Bumper-bracket. L. P. Halladay. No. 1,363,780; Dec. 28; v. 281; p. 689.
Bumper-supporting means. J. Guthrie. No. 1,350,406; Aug. 24; v. 277; p. 614.
Bumping-post. R. B. Fisher. No. 1,333,709; Mar. 16; v. 272; p. 403.
Bumping-post. P. Kimack. No. 1,354,662; Oct. 5; v. 279; p. 43.
Bumping mechanism. H. W. B. Graham. No. 1,350,604; Aug. 24; v. 277; p. 654.
Bun and bread molder and rounder. P. B. Streich. No. 1,362,057; Dec. 14; v. 281; p. 262.
Bunch-builder. J. L. Lyle and J. F. Broom. No. 1,362,711; Dec. 21; v. 281; p. 442.
Bundle-carrier. C. R. Raney. No. 1,349,435; Aug. 10; v. 277; p. 306.
Bundle or package tying machine. A. Bluege. No. 1,342,981; June 8; v. 275; p. 321.
Bundle-tying machine. E. Simon. No. 1,332,523; Mar. 2; v. 272; p. 67.
Bundles, &c., Machine for tying. E. W. Jenkins. No. 1,339,396; May 11; v. 274; p. 213.
Bundling-press. J. L. Herman. No. 1,358,952; Nov. 16; v. 280; p. 449.
Bung-hole closure. R. H. Norton. No. 1,327,351; Jan. 6; v. 270; p. 88.
Bung, Safety-. G. Dobmeier. No. 1,353,732; Sept. 21; v. 278; p. 491.
Bunk. C. G. Janson and C. J. Braun. No. 1,349,902; Aug. 17; v. 277; p. 482.
Bunk-block. W. G. Kelly. No. 1,340,055; May 11; v. 274; p. 339.
Bunk construction. F. Glass. No. 1,357,088; Oct. 26; v. 279; p. 658.
Bunsen burner. C. M. Johnson. No. 1,342,912; June 8; v. 275; p. 308.

Digitized by Google

Buoy. W. S. Crouch. No. 1,339,321; May 4; v. 274; p. 123.
Buoy, Life-. J. Endreson. No. 1,332,171; Feb. 24; v. 271; p. 649.
Buoy, Life-. A. Zubryd. 1,347,240; July 20; v. 276; p. 497.
Bur-stand. F. W. Korb. No. 1,357,063; Oct. 26; v. 279; p. 653.
Burglar-alarm. E. E. Brown. No. 1,328,559; Jan. 20; v. 270; p. 413.
Burglar-alarm. F. Carter. No. 1,357,205; Oct. 26; v. 279; p. 680.
Burglar-alarm. O. Jacobson. No. 1,344,178; June 22; v. 275; p. 684.
Burglar-alarm. P. H. Spethmann. No. 1,327,785; Jan. 13; v. 270; p. 230.
Burglar-alarm. A. A. Terstyansky. No. 1,342,104; June 1; v. 275; p. 96.
Burglar-alarm, Automatic. F. A. Terry. No. 1,350,188; Aug. 17; v. 277; p. 525.
Burglar-alarm, Mechanical. G. G. Shiloff. No. 1,348,378; Aug. 3; v. 277; p. 49.
Burglar-alarms, Circuit-closer for. C. E. Kiddelsen. No. 1,330,473; Feb. 10; v. 271; p. 242.
Burglar-chaser. K. Fujita and G. N. Markle. No. 1,330,698; Feb. 10; v. 271; p. 284.
Burglar-lock. S. Dulczewski and H. Stempkowski. No. 1,361,317; Dec. 7; v. 281; p. 67.
Burglar-proof lock. A. Yurow. No. 1,346,364; July 13; v. 276; p. 266.
Burglar-proof structure. A. J. Kirkpatrick. No. 1,330,475; Feb. 10; v. 271; p. 242.
Burglar-protector. A. Horvitz. No. 1,345,444; July 6; v. 276; p. 23.
Burial-vault clamp. F. E. Arndt. No. 1,327,011; Jan. 6; v. 270; p. 25.
Burner: *See*—
Bunsen burner.
Crude-oil burner.
Fine-fuel burner.
Fluid-fuel burner.
Fuel-burner.
Fuel-oil burner.
Furnace-burner.
Gas-burner.
Gas and crude-oil burner.
Gas generator and burner.
Gas-heater burner.
Gas or oil burner.
Gaseous-fuel burner.
Hydrocarbon-burner.
Hydrocarbon-fuel burner.
Kerosene-burner.
Lamp-burner.
Lantern-burner.
Liquid-fuel burner.
Oil-burner.
Oil-gas burner.
Oven-burner.
Portable burner.
Sawdust-burner.
Stump-burner.
Vapor-burner.
Wood-refuse burner.
Burner. A. H. Best. No. 1,351,550; Aug. 31; v. 277; p. 901.
Burner. J. O. Carrey. No. 1,349,319; Aug. 10; v. 277; p. 284.
Burner. M. Henry. No. 1,331,431; Feb. 17; v. 271; p. 490.
Burner. A. J. Johnson. No. 1,360,753; Nov. 30; v. 280; p. 915.
Burner. E. C. Kahn. No. 1,354,567; Oct. 5; v. 279; p. 24.
Burner. C. C. Lillibridge. No. 1,362,881; Dec. 21; v. 281; p. 475.
Burner. W. G. Luttinger. No. 1,346,004; July 20; v. 276; p. 432.
Burner. M. Mathy. No. 1,331,022; Feb. 17; v. 271; p. 415.
Burner. S. W. Morrow. No. 1,348,574; Aug. 3; v. 277; p. 86.
Burner. J. G. Placette. No. 1,342,226; June 1; v. 275; p. 121.
Burner. G. H. Riefiin. No. 1,355,500; Oct. 12; v. 279; p. 260.
Burner. C. A. Trahan. No. 1,326,996; Jan. 6; v. 270; p. 22.
Burner apparatus. S. R. Hardwick. No. 1,363,868; Dec. 28; v. 281; p. 706.
Burner for bake-ovens. J. B. MacDonald. No. 1,363,048; Dec. 21; v. 281; p. 507.
Burner, Gas-. K. G. Gustafsson. No. 1,362,938; Dec. 21; v. 281; p. 485.
Burner-mounting. W. R. Ray. No. 1,328,198; Jan. 13; v. 270; p. 308.
Burner-regulating apparatus. A. H. Cruse. No. 1,357,960; Nov. 9; v. 280; p. 206.
Burner-tip cleaner. G. W. Johnston, Jr. No. 1,338,683; Apr. 27; v. 278; p. 758.
Burners, Air-regulating device for oil-. J. T. Voorheis No. 1,329,279; Jan. 27; v. 270; p. 577.
Burners, Atomizing device for rotary oil-. J. Schminger, jr. No. 1,327,256; Jan. 6; v. 270; p. 70.
Burners, Fuel-regulating device for. O. Spahr. No. 1,335,401; Mar. 30; v. 272; p. 827.
Burners, Heat-confining attachment for. F. W. Hanks. No. 1,355,226; Oct. 12; v. 279; p. 207.
Burners, Starting device for. J. Aisberg. No. 1,337,498; Apr. 20; v. 273; p. 474.
Burners, System for supplying liquid fuel to. W. N. Best. No. 1,357,309; Nov. 2; v. 280; p. 21.
Burnishing-machine. W. Hamann. No. 1,355,471; Oct 12; v. 279; p. 254.
Burnishing machine, Top-lift-. F. J. Tisdell. No. 1,349,863; Aug. 17; v. 277; p. 463.
Bus construction. R. Fuller. No. 1,350,601; Aug. 24; v. 277; p. 653.
Bush-holder. J. V. Dobson. No. 1,363,644; Dec. 28; v. 281; p. 662.
Bushing. E. H. Waugh. No. 1,356,101; Oct. 19; v. 279; p. 418.
Bushing and similar cylindrical body, Metallic. F. Müller. No. 1,360,243; Nov. 23; v. 280; p. 747.
Bushing and valve, Combined. J. A. Anderson. No. 1,340,810; May 18; v. 274; p. 538.
Bushing-extractor. J. B. Riggs. No. 1,359,432; Nov. 16; v. 280; p. 541.
Bushing for centrifugal machines, Bowl-spindle. S. H. Hall. No. 1,362,619; Dec. 21; v. 281; p. 423.
Bushing-forming machine. O. W. McKnight. No. 1,342,053; June 1; v. 275; p. 86.
Bushing-holder. V. Forsman and E. Danielson. No. 1,339,448; May 11; v. 274; p. 224.
Bushing, Journal-. S. W. Putnam. No. 1,328,195; Jan. 13; v. 270; p. 308.
Bushing, Pilot-bar. W. J. Schaffer. No. 1,355,168; Oct. 12; v. 279; p. 195.
Bushing-remover. W. E. Donelson. No. 1,338,495; Apr. 27; v. 278; p. 733.
Bushing-remover. H. D. Lindenmuth. No. 1,342,852; June 8; v. 275; p. 296.
Bushing, Thread-. M. D. Riker. No. 1,363,358; Dec. 28; v. 281; p. 607.
Bushings and similar cylindrical bodies, Machine for producing metallic. F. Müller. No. 1,360,242; Nov. 23; v. 280; p. 746.
Bushings and similar cylindrical bodies, &c., Producing metallic. F. Müller. No. 1,360,241; Nov. 23; v. 280; p. 746.
Bushings, Device for removing. A. Johnson. No. 1,341,132; May 25; v. 274; p. 672.
Bushings, Locking device for eccentric. F. J. McAvoy. No. 1,348,022; July 27; v. 276; p. 710.
Bushings, Locking device for eccentric. F. J. McAvoy. No. 1,348,023; July 27; v. 276; p. 710.
Bushings usable, Apparatus for rendering worn. C. P. Beach. No. 1,347,490; July 27; v. 276; p. 604.
Business-record and income-tax book. H. G. Carter. No. 1,350,854; Aug. 24; v. 277; p. 701.
Butt-gage. J. W. Read. No. 1,336,157; Apr. 6; v. 273; p. 86.
Butter container and cutter. T. Kaskouras. No. 1,348,805; Aug. 3; v. 277; p. 129.
Butter-cutter. W. W. Palmer. No. 1,360,572; Nov. 30; v. 280; p. 870.
Butter-cutter. W. H. Ruttle. No. 1,331,786; Feb. 24; v. 271; p. 578.
Butter-cutting machine. R. A. Simpson. No. 1,329,816; Feb. 3; v. 271; p. 87.
Butter-dispensing device. T. Tripolitis. No. 1,359,206; Nov. 16; v. 280; p. 595.
Butter, Machine for making. J. A. Shearer. No. 1,342,091; June 8; v. 275; p. 343.
Butter-mixer. H. S. Walther and G. Henchos. No. 1,354,230; Sept. 28; 278; p. 685.
Buttermilk, Drying. N. P. Collis. No. 1,356,340; Oct. 19; v. 279; p. 466.
Button. C. W. G. Allender. No. 1,341,771; June 1; v. 275; p. 32.
Button. N. de Beaumont. No. 1,359,038; Nov. 16; v. 280; p. 464.
Button. R. W. Fox. No. 1,343,080; June 8; v. 275; p. 341.
Button. B. Freile. No. 1,333,015; Mar. 9; v. 272; p. 212.
Button. S. A. Glynn. No. 1,340,390; May 18; v. 274; p. 460.
Button. H. H. Helwig. No. 1,349,761; Aug. 17; v. 277; p. 443.
Button. E. C. Lakey. No. 1,346,660; July 13; v. 276; p. 325.
Button. W. O. Lee. No. 1,336,243; Apr. 6; v. 273; p. 102.
Button. M. M. Morgan. No. 1,362,434; Dec. 14; v. 281; p. 336.
Button. G. A. Schwab. No. 1,355,623; Oct. 12; v. 279; p. 284.
Button. R. M. de Virgnier. No. 1,333,013; Mar. 9; v. 272; p. 212.
Button and fastener, Combined. G. Kaltenbach. No. 1,334,656; Mar. 23; v. 272; p. 626.
Button and making same. M. Menkin. No. 1,329,791; Feb. 3; v. 271; p. 83.
Button and necktie-slide, Collar-. A. J. Edwards. No. 1,342,102; June 1; v. 275; p. 96.
Button-attaching machine. P. Bammer and T. Gensmer. No. 1,335,315; Mar. 30; v. 272; p. 811.
Button-attaching machine. C. H. T. Hagelstein. No. 1,329,399; Feb. 3; v. 271; p. 10.
Button-attaching machine. B. T. Leveque. No. 1,348,229; Aug. 3; v. 277; p. 20.
Button-attaching machine, Button-feed mechanism for. S. L. Snelerson. No. 1,339,324; May 4; v. 274; p. 124.
Button-attaching means. A. J. Matter. No. 1,336,787; Apr. 13; v. 273; p. 265.
Button-blanks, Machine for separating. P. Eby and L. Angle. No. 1,350,794; Aug. 24; v. 277; p. 690.

Digitized by Google

Alphabetical list of inventions—Continued.

Button-carding machine. A. L. Currier. No. 1,344,679; June 29; v. 275; p. 849.
Button-clasp. E. B. Fink. No. 1,342,161; June 1; v. 275; p. 108.
Button-clasp. W. B. Runk. No. 1,332,759; Mar. 2; v. 272; p. 112.
Button, Clothes-. H. E. Welty. No. 1,334,574; Mar. 23; v. 272; p. 612.
Button, Collar-. N. Blattberg. No. 1,349,872; Aug. 17; v. 277; p. 465.
Button, Collar-. A. J. Freeman. No. 1,349,825; Aug. 17; v. 277; p. 455.
Button, Collar-. M. L. Hammitt. No. 1,335,164; Mar. 30; v. 272; p. 784.
Button, Collar-. A. Lentatz. No. 1,352,754; Sept. 14; v. 278; p. 238.
Button, Collar-. F. A. Reinhold, Jr. No. 1,348,958; Aug. 10; v. 277; p. 212.
Button, Collar-. P. A. Rontey. No. 1,348,450; Aug. 3; v. 277; p. 63.
Button, Collar-. C. Stern. No. 1,342,003; June 1; v. 275; p. 76.
Button, Collar-. A. Yauck. No. 1,353,444; Sept. 21; v. 278; p. 432.
Button, Cuff-. J. H. Bechtold. No. 1,336,880; Apr. 13; v. 273; p. 283.
Button, Cuff-. W. G. Franklin. No. 1,359,684; Nov. 23; v. 280; p. 635.
Button, Cuff-. J. A. Jacobs. No. 1,341,130; May 25; v. 274; p. 671.
Button, Cuff-. O. Pullen. No. 1,339,713; May 11; v. 274; p. 275.
Button, Cuff-. W. H. Smith. No. 1,352,095; Sept. 7; v. 278; p. 74.
Button, Cuff-. E. B. Stuart. No. 1,333,228; Mar. 9; v. 272; p. 251.
Button, Cuff-. E. B. Stuart. No. 1,335,535; Mar. 30; v. 272; p. 852.
Button-cutting machines, Chuck for. G. E. Wahl. No. 1,348,190; Aug. 3; v. 277; p. 11.
Button, Detachable. H. Opits. No. 1,355,162; Oct. 12; v. 279; p. 194.
Button device. S. Cohen. No. 1,353,725; Sept. 21; v. 278; p. 491.
Button device. S. Cohen and A. R. Foerster. No. 1,356,906; Oct. 26; v. 279; p. 622.
Button, dress-fastener, and the like, Spring-. F. Hawkins. No. 1,343,506; June 15; v. 275; p. 487.
Button-fastener. D. Bourque. No. 1,355,029; Oct. 5; v. 279; p. 115.
Button-fastener. A. Moses. No. 1,340,073; May 11; v. 274; p. 342.
Button-fastener. R. Root. No. 1,347,759; July 27; v. 276; p. 659.
Button-fastener. A. J. Taylor. No. 1,339,234; May 4; v. 274; p. 108.
Button-fastener. D. E. Tweeddale. No. 1,346,852; July 13; v. 276; p. 264.
Button-fastener, Safety. S. Fishman. No. 1,362,786; Dec. 21; v. 281; p. 457.
Button-fastening. H. C. Summers. No. 1,331,401; Feb. 17; v. 271; p. 484.
Button, Garment-. S. W. Cushman. No. 1,348,629; Aug. 3; v. 277; p. 97.
Button holder, Cuff-. T. L. Mattson. No. 1,360,129; Nov. 23; v. 280; p. 724.
Button-hook. F. Parker. No. 1,355,567; Oct. 12; v. 279; p. 273.
Button hopper and transfer-tube. W. E. Elliott. No. 1,330,854; Feb. 17; v. 271; p. 331.
Button-inspecting machine. H. Hastings. No. 1,327,672; Jan. 13; v. 270; p. 209.
Button-link. W. E. Roberts. No. 1,335,703; Mar. 30; v. 272; p. 884.
Button, Lock collar-. R. J. McCredie. No. 1,327,719; Jan. 13; v. 270; p. 218.
Button-loop. C. E. Peterson. No. 1,346,911; July 20; v. 276; p. 433.
Button machine, Pearl-. P. F. Dusha and A. Feyk. No. 1,343,042; June 8; v. 275; p. 333.
Button machine, Shank-. B. Vesely and W. Fajman. No. 1,353,680; Sept. 21; v. 278; p. 481.
Button or clasp, Cuff-. A. J. Capstraw. No. 1,355,651; Oct. 12; v. 279; p. 289.
Button parts, Manufacturing press-. M. Gruschka and F. Marjanko. No. 1,327,322; Jan. 6; v. 270; p. 82.
Button, Positioning-. F. J. Evans. No. 1,329,254; Jan. 27; v. 270; p. 569.
Button, Push-. S. Anthony. No. 1,340,139; May 18; v. 274; p. 413.
Button, Separable. J. A. and J. G. Doran. No. 1,337,889; Apr. 20; v. 273; p. 549.
Button, Separable. H. Iversen. No. 1,328,482; Jan. 20; v. 270; p. 389.
Button, Separable cuff-. F. R. Matteson. No. 1,352,908; Sept. 14; v. 278; p. 269.
Button, Separable cuff-. E. J. Swedlund. No. 1,353,085; Sept. 14; v. 278; p. 303.
Button-setting machine. J. Kelly. No. 1,356,772; Oct. 26; v. 279; p. 596.
Button-setting machine. F. C. Snyder. No. 1,329,438; Feb. 3; v. 271; p. 18.
Button, Shirt-. B. R. Evans. No. 1,348,985; Aug. 10; v. 277; p. 217.
Button, Short-contact push-. W. Gadke. No. 1,335,729; Apr. 6; v. 273; p. 5.
Button-snap. L. S. Davis. No. 1,348,690; Aug. 3; v. 277; p. 110.
Button, Soft-collar. J. E. Speyer. No. 1,343,096; June 8; v. 275; p. 344.
Button-stapling machine. J. Pavelka. No. 1,356,210; Oct. 19; v. 279; p. 442.
Button, Toggle-. P. de F. and F. E. Warner. No. 1,353,439; Sept. 21; v. 278; p. 431.
Buttons, Machine for making metal. H. Tourneur. No. 1,347,235; July 20; v. 276; p. 496.
Buttons, Machine for making the stud members of snap W. Nelson. No. 1,358,772; Nov. 16; v. 280; p. 413.
Buttons, Machine for making the stud members of snap-. W. Nelson. No. 1,358,773; Nov. 16; v. 280; p. 413.
Buttons, Manufacture of. E. L. Anderson. No. 1,340,515; May 18; v. 274; p. 483.
Buttonhole cutting and stitching machine. E. B. Allen. No. 1,330,156; Feb. 10; v. 271; p. 183.
Buttonhole cutting and stitching machine. E. B. Allen. No. 1,360,704; Nov. 30; v. 280; p. 905.
Buttonhole-making machine. C. M. Carr. No. 1,333,882; Mar. 16; v. 272; p. 426.
By-products, particularly nitrogen compounds, from blast-furnaces, Obtaining. W. Ostwald. No. 1,344,770; June 29; v. 275; p. 866.
Cab, Auto-. J. Anderson. No. 1,336,881; Apr. 6; v. 273; p. 118.
Cab, Tractor-. H. V. Browne. No. 1,341,355; May 25; v. 274; p. 715.
Cabinet. C. Bergmann. No. 1,339,842; May 11; v. 274; p. 299.
Cabinet. F. J. Hruska. No. 1,330,267; Feb. 10; v. 271; p. 204.
Cabinet. R. Jobling. No. 1,351,654; Aug. 31; v. 277; p. 921.
Cabinet. C. B. Landis. No. 1,342,851; June 8; v. 275; p. 296.
Cabinet. A. J. E. Larson. No. 1,329,616; Feb. 3; v. 271; p. 51.
Cabinet. O. A. Nelson. No. 1,341,994; June 1; v. 275; p. 74.
Cabinet. B. S. Smith. No. 1,353,974; Sept. 28; v. 278; p. 582.
Cabinet. A. B. Swales. No. 1,352,101; Sept. 7; v. 278; p. 75.
Cabinet. D. C. Williams. No. 1,358,271; Nov. 9; v. 280; p. 267.
Cabinet and pocket-case therefor, Combined phonograph-. A. A. Huseby. No. 1,333,658; Mar. 16; v. 272; p. 393.
Cabinet and table, Combined. T. H. E. Hathaway. No. 1,348,220; Aug. 3; v. 277; p. 18.
Cabinet, Bag-dispensing. O. Swift. No. 1,362,058; Dec. 14; v. 281; p. 262.
Cabinet, Baker's material-. J. H. Johnson. No. 1,329,607; Feb. 3; v. 271; p. 4[illegible].
Cabinet, Bath-. D. L. Thompson. No. 1,342,474; June 8; v. 275; p. 221.
Cabinet, Bathing-. P. P. Figueroa. No. 1,330,312; Feb. 10; v. 271; p. 212.
Cabinet, Blotting-paper. C. W. Selden. No. 1,339,140; May 4; v. 274; p. 92.
Cabinet, Check-. J. A. Kidwell. No. 1,340,231; May 18; v. 274; p. 430
Cabinet, Check and deposit-slip. G. F. Brisendine. No. 1,339,255; May 4; v. 274; 112.
Cabinet, Cigarette-. C. T. Joslin. No. 1,354,307; Sept. 28; v. 278; p. 650.
Cabinet, Clothes-. J. B. Lemly. No. 1,326,940; Jan. 6; v. 270; p. 11.
Cabinet, Clothes-hanger. J. H. Nelson. No. 1,345,624; July 6; v. 276; p. 58.
Cabinet, Combined phonographic-disk-record and talking-machine. E. M. Howard. No. 1,335,967; Apr. 6; v. 273; p. 50.
Cabinet, Commodity-. J. H. Boye. No. 1,351,464; Aug. 31; v. 277; p. 883.
Cabinet, Commodity-. J. L. Flannery, Jr. No. 1,361,451; Dec. 7; v. 281; p. 95.
Cabinet construction. S. F. Long. No. 1,333,264; Mar. 9; v. 272; p. 258.
Cabinet, Cooking-. H. and P. Levy. No. 1,332,671; Mar. 2; v. 272; p. 95.
Cabinet, Cooking-. G. W. Wiesehan. No. 1,343,539; June 15; v. 275; p. 494.
Cabinet, Delivery-. R. K. Mosley. No. 1,354,866; Nov. 16; v. 280; p. 432.
Cabinet, Disk-record. H. D. Pomeroy, H. T. Avery, and R. M. Wheeler. No. 1,360,679; Nov. 30; v. 280; p. 900.
Cabinet, Disk-record. H. D. Pomeroy, H. T. Avery, and R. M. Wheeler. No. 1,360,680; Nov. 30; v. 280; p. 900.
Cabinet, Dispensing-. J. Fritsche. No. 1,328,664; Jan. 20; v. 270; p. 432.
Cabinet, Dispensing-. W. J. Jandron. No. 1,343,974; June 22; v. 275; p. 645.
Cabinet, Dispensing-. G. E. McKenney. No. 1,355,488; Oct. 12; v. 279; p. 258.
Cabinet, Dispensing-. P. D. Parsons. No. 1,362,817; Dec. 21; v. 281; p. 463.

Digitized by Google

Cabinet, Display-. F. H. Gibbs. No. 1,330,181; Feb. 10; v. 271; p. 188.
Cabinet, Door-. J. N. Quinn. No. 1,359,742; Nov. 23; v. 280; p. 647.
Cabinet-drawers, Extension-slide for. C. Lenhart. No. 1,343,513; June 15; v. 275; p. 488.
Cabinet, Drill-. F. M. Pearman. No. 1,348,732; Aug. 3; v. 277; p. 116.
Cabinet, Electric sewing-machine. E. A. Kopf and M. Hemleb. No. 1,349,678; Aug. 17; v. 277; p. 427.
Cabinet, File-holder. G. M. Schaff. No. 1,361,549; Dec. 7; v. 281; p. 116.
Cabinet, Filing-. E. V. Brown. No. 1,341,412; May 25; v. 274; p. 726.
Cabinet, Filing-. C. J. Hicks. No. 1,354,973; Oct. 5; v. 279; p. 105.
Cabinet, Filing-. H. A. Martin. No. 1,329,539; Feb. 3; v. 271; p. 37.
Cabinet, Filing-. W. H. Olson. No. 1,334,712; Mar. 23; v. 272; p. 637.
Cabinet, Fireproof. R. R. Imhoff. No. 1,362,421; Dec. 14; v. 281; p. 333.
Cabinet, Folding. P. R. Vogel. No. 1,332,087; Feb. 24; v. 271; p. 634.
Cabinet, Folding music-. S. F. Sawyer. No. 1,358,583; Nov. 9; v. 280; p. 330.
Cabinet, Food-. C. M. Drinkwater. No. 1,336,776; Apr. 13; v. 273; p. 263.
Cabinet, Food-service. M. J. Stern. No. 1,349,634; Aug. 17; v. 277; p. 419.
Cabinet for gramophone and like records. L. A. de Becker. No. 1,336,206; Apr. 6; v. 273; p. 95.
Cabinet for paper bags. W. G. Cowan. No. 1,331,417; Feb. 17; v. 271; p. 487.
Cabinet, Heat and vapor bath. E. B. Ullman, E. B. Simmonds, and A. F. Atkinson. No. 1,346,353; July 13; v. 276; p. 264.
Cabinet, Heat-resisting. R. H. Dick and C. F. Wolters. No. 1,342,204; June 1; v. 275; p. 116.
Cabinet, Hotel and traveler's directory-. S. L. Marks. No. 1,357,464; Nov. 2; v. 280; p. 50.
Cabinet, Hotel or restaurant. E. Washington. No. 1,348,461; Aug. 3; v. 277; p. 64.
Cabinet, Ice-cream, &c. W. F. Beatty. No. 1,358,503; Nov. 9; v. 280; p. 314.
Cabinet, Kitchen-. F. H. Schroeder. No. 1,346,470; July 13; v. 276; p. 287.
Cabinet, Laying-. J. F. Ellis. No. 1,342,434; June 8; v. 275; p. 214.
Cabinet-locking device. F. H. Hoberg. No. 1,342,961; June 8; v. 275; p. 317.
Cabinet, Mechanical-draw-delivery filing-. A. T. J. Bahr. No. 1,336,183; Apr. 6; v. 273; p. 91.
Cabinet, Metal filing-. W. Chipperfield. No. 1,353,452; Sept. 21; v. 278; p. 434.
Cabinet, Music-. P. Grenchus. No. 1,333,250; Mar. 9; v. 272; p. 255.
Cabinet, Music-. W. G. Leonard. No. 1,335,286; Mar. 30; v. 272; p. 805.
Cabinet, Optical. S. W. Woodhull. No. 1,353,372; Sept. 21; v. 278; p. 419.
Cabinet or casing, Sewing-machine. A. E. Lee and E. G. Milsted. No. 1,342,820; June 8; v. 275; p. 290.
Cabinet or filing tray. E. Ohnstrand. No. 1,354,510; Oct. 5; v. 279; p. 12.
Cabinet, Pan-closet. G. E. Kinch. No. 1,343,830; June 15; v. 275; p. 552.
Cabinet, Phonograph-. W. H. Bennington. No. 1,327,977; Jan. 13; v. 270; p. 266.
Cabinet, Phonograph-. N. H. Cedarquist. No. 1,359,791; Nov. 23; v. 280; p. 657.
Cabinet, Phonograph-. C. H. Gudegast. No. 1,340,766; May 18; v. 274; p. 530.
Cabinet, Phonograph-. E. J. Schaefer. No. 1,349,439; Aug. 10; v. 277; p. 307.
Cabinet, Phonograph-. F. C. White. No. 1,347,067; July 20; v. 276; p. 465.
Cabinet, Phonograph and talking-machine. R. R. M. Hall. No. 1,358,542; Nov. 9; v. 280; p. 322.
Cabinet, Phonograph-record. C. E. Langley. No. 1,337,922; Apr. 20; v. 273; p. 555.
Cabinet, Phonograph-record. R. L. Queen. No. 1,331,024; Feb. 17; v. 271; p. 416.
Cabinet, Phonograph table-. P. Kraushaar. No. 1,343,622; June 15; v. 275; p. 510.
Cabinet, Phonographic-record. F. H. Call. No. 1,327,142; Jan. 6; v. 270; p. 49.
Cabinet, Phonographic-record. F. H. Call. No. 1,327,143; Jan. 6; v. 270; p. 50.
Cabinet, Printer's. F. J. Smith. No. 1,341,389; May 25; v. 274; p. 722.
Cabinet, Printer's drying-. A. J. Chavannes. No. 1,346,781; July 13; v. 276; p. 349.
Cabinet, Radio-. W. E. Booth. No. 1,361,813; Dec. 13; v. 281; p. 213.
Cabinet, Record-. O. L. Ostendorf. No. 1,352,684; Sept. 14; v. 278; p. 224.
Cabinet, Record-. H. A. Wiberg. No. 1,351,596; Aug. 31; v. 277; p. 910.
Cabinet, Record-. E. C. Fremaux. No. 1,350,146; Aug. 17; v. 277; p. 517.
Cabinet, Record-filing. R. McCart, Jr. No. 1,349,466; Aug. 10; v. 277; p. 312.
Cabinet, Refrigerating-. M. F. Ewen. No. 1,337,696; Apr. 20; v. 273; p. 512.
Cabinet, Revolving housekeeping-. J. F. Baymiller. No. 1,352,496; Sept. 14; v. 278; p. 186.
Cabinet, Roller-towel. C. B. Orcutt. No. 1,353,416; Sept. 21; v. 278; p. 427.
Cabinet, Sanitary display-. W. W. Slade. No. 1,333,942; Mar. 16; v. 272; p. 446.
Cabinet, Secret alarm-. M. Sirolla. No. 1,331,033; Feb. 17; v. 271; p. 417.
Cabinet, Self-ejecting-record. H. S. Schissel. No. 1,339,291; May 4; v. 274; p. 118.
Cabinet, Sewing-machine. J. Dianiska. No. 1,339,501; May 11; v. 274; p. 234.
Cabinet, Sewing-machine. E. A. Kopf and M. Hemleb. No. 1,349,679; Aug. 17; v. 277; p. 427.
Cabinet, Shaving-. A. Douthit. No. 1,360,376; Nov. 30 v. 280; p. 840.
Cabinet, Sheet delivery. T. A. Matthews. No. 1,357,070; Oct. 26; v. 279; p. 655.
Cabinet, Shoe-shining. L. H. Arter. No. 1,346,585; July 13; v. 276; p. 310.
Cabinet, Shoe-shining. H. Johnson. No. 1,329,410; Feb. 3; v. 271; p. 12.
Cabinet, Sleeping-. R. K. Jayne. No. 1,353,754; Sept. 21; v. 278; p. 495.
Cabinet, Stove-. T. Wone. No. 1,353,121; Sept. 14; v. 278; p. 309.
Cabinet, Switch-. A. T. Hunt. No. 1,332,555; Mar. 2; v. 272; p. 73.
Cabinet, Talking-machine. J. G. Providenti. No. 1,345,692; July 6; v. 276; p. 71.
Cabinet, Therapeutic bath-. W. S. Crum. No. 1,358,060; Nov. 9; v. 280; p. 226.
Cabinet, Toilet-. E. Bruder. No. 1,329,070; Jan. 27; v. 270; p. 588.
Cabinet, Toilet-. J. Buraky. No. 1,354,240; Sept. 28; v. 278; p. 637.
Cabinet, Tool-. C. Bouillon. No. 1,337,387; Apr. 20; v. 273; p. 453.
Cabinet-top-lifting device. H. K. Sandell. No. 1,357,655; Nov. 2; v. 280; p. 85.
Cabinet, Towel-. W. W. Bagley. No. 1,353,704; Sept. 21; v. 278; p. 486.
Cabinet, Towel-. J. Rousso. No. 1,338,097; Apr. 27; v. 273; p. 658.
Cabinet, Towel-. E. J. Shaughnessy. No. 1,345,262; June 29; v. 275; p. 960.
Cabinet, Towel-dispensing. W. P. McCorkindale. No. 1,351,956; Sept. 7; v. 278; p. 49.
Cabinet-trap. A. Wiemer. No. 1,349,177; Aug. 10; v. 277; p. 255.
Cabinet, Vacuum-. E. Washington. No. 1,347,194; July 20; v. 276; p. 488.
Cabinet with locking compartments, Filing-. M. R. Hutchison. No. 1,351,423; Aug. 31; v. 277; p. 875.
Cabinets, Cable-guide for drophead-sewing-machine. T. Kundtz. No. 1,338,834; May 4; v. 274; p. 34.
Cabinets, Corner connection for. H. J. Gwyer. No. 1,343,209; June 15; v. 275; p. 430.
Cabinets, Record-holder for phonograph-. E. H. Dolman. No. 1,358,833; Nov. 16; v. 280; p. 425.
Cabinets, Self-raising lid for ice-cream. C. R. Ragsdale. No. 1,341,518; May 25; v. 274; p. 746.
Cable-bracket. H. Brachtl. No. 1,335,553; Mar. 30; v. 272; p. 855.
Cable carrying or supporting means, Electric. A. H. Lessells. No. 1,344,514; June 22; v. 275; p. 751.
Cable, chain, or analogous drive. A. O. Dupuy. No. 1,357,316; Nov. 2; v. 280; p. 22.
Cable-clamp. W. J. Hiss. No. 1,328,376; Jan. 20; v. 270; p. 379.
Cable-clamp. W. J. Hiss. No. 1,328,377; Jan. 20; v. 270; p. 379.
Cable-clamp. H. W. Pleister. No. 1,328,548; Jan. 20; v. 270; p. 410.
Cable-clamp. W. W. Pope. No. 1,341,438; May 25; v. 274; p. 731.
Cable-clamp, Journaled. E. L. Crosby and O. J. Marshick. No. 1,345,351; July 6; v. 276; p. 5.
Cable-clamping device. J. H. Skogman. No. 1,360,458; Nov. 30; v. 280; p. 856.
Cable-controlled carrying apparatus. A. Davino. No. 1,360,097; Nov 23; v. 280; p. 718.
Cable-coupling. R. R. Smiley. No. 1,355,857; Oct. 19; v. 279; p. 370.
Cable ends, Uniting. J. C. Sander. No. 1,363,855; Dec. 28; v. 281; p. 607.
Cable-guide. N. K. Bowman. No. 1,351,367; Aug. 31; v. 277; p. 865.
Cable-hanger. C. G. Sinclair, Jr. No. 1,352,549; Sept. 14; v. 278; p. 196.
Cable-hook. W. Rutan. No. 1,333,038; Mar. 9; v. 272; p. 216.
Cable junction, Stay-. J. Bourguignon. No. 1,359,571; Nov. 23; v. 280; p. 614.
Cable-laying machine. L. S. Adams. No. 1,337,184; Apr. 20; v. 273; p. 415.
Cable localizer, Faulty-. A. Davis. No. 1,331,051; Feb. 17; v. 271; p. 420.

Digitized by Google

Cable or monorail tramway and vehicle for same. S. A. Rogers. No. 1,342,926; June 8; v. 275; p. 311.
Cable-pulling device. T. D. Lemieux. No. 1,328,678; Jan. 20; v. 270; p. 435.
Cable-railway. A. E. Norris. No. 1,358,976; Nov. 16, v. 280; p. 453.
Cable-recorder attachment. F. S. Whitney. No. 1,350,193; Aug. 17; v. 277; p. 526.
Cable-ring. H. F. Carpenter and B. G. Neyland. No. 1,363,455; Dec. 28; v. 281; p. 626.
Cable-splice. J. F. Dillon. No. 1,343,251; June 15; v. 275; p. 438.
Cable-splicing machine, Wire-. J. Olson. No. 1,341,579; May 25; v. 274; p. 758.
Cable stretcher and holder. G. J. Hildahl. No. 1,334,370; Mar. 23; v. 272; p. 573.
Cable structure and making same, Bonded-wire-. R. C. Pierce. No. 1,339,417; May 11; v. 274; p. 217.
Cable support. O. W. Breniser. No. 1,349,043; Aug. 10; v. 277; p. 229.
Cable-support, Anti-abrasion. B. Gherardi. No. 1,336,558; Apr. 13; v. 273; p. 221.
Cable tightener and puller. T. J. Hughes. No. 1,358,552; Nov. 9; v. 280; p. 324.
Cable, Towing-. C. B. Osmundsen. No. 1,345,873; July 6; v. 276; p. 107.
Cable-tracks, Support for elevated. J. F. Montine. No. 1,344,923; June 29; v. 275; p. 895.
Cable, Wire. J. W. Partington. No. 1,334,257; Mar. 16; v. 272; p. 505.
Cables, Apparatus for use in splicing or assembling. C. Pothier. No. 1,333,574; Mar. 9; v. 272; p. 317.
Cables, Supporting means for traveling. A. W. Forbes. No. 1,355,460; Oct. 12; v. 279; p. 253.
Cables, System for protecting electric. F. B. Whitaker. No. 1,337,866; Apr. 20; v. 273; p. 544.
Cableway. W. van den Heuvel. No. 1,362,275; Dec. 14; v. 281; p. 305.
Cableway. H. D. Richards. No. 1,347,758; July 27; v. 276; p. 658.
Cableway, Marine. T. S. Miller. (Reissue.) No. 14,858; May 18; v. 274; p. 549.
Caffein, Manufacture of. R. L. Datta. No. 1,350,092; Aug. 17; v. 277; p. 507.
Cage, Animal-. G. R. J. Newman. No. 1,347,897; July 20; v. 276; p. 529.
Cage, Guard. S. Olson. No. 1,347,652; July 27; v. 276; p. 636.
Cage-trap, Everset. H. Rohliff. No. 1,347,407; July 20; v. 276; p. 531.
Cages, Lock for dumping-. D. H. Lepley. No. 1,363,985; Dec. 28; v. 281; p. 729.
Cake-baking apparatus, Rice-. M. Higuchi. No. 1,330,706; Feb. 10; v. 271; p. 286.
Cake-box stand. C. W. Grubb. No. 1,356,620; Oct. 26; v. 279; p. 566.
Cake-cutting machine. R. C. McGee. No. 1,357,241; Nov. 2; v. 280; p. 8.
Cake-cutting machine. J. T. Shillito. No. 1,342,875; June 8; v. 275; p. 301.
Cake depositor and spreader, Layer-. E. G. Fisher and R. J. H. Moesta. No. 1,358,716; Nov. 16; v. 280; p. 402.
Cake-hanger. W. L. Ramsay. No. 1,330,719; Feb. 10; v. 271; p. 283.
Cakes, Food composition for making. W. B. Johnson. No. 1,335,242; Mar. 30; v. 272; p. 797.
Calcimine. W. F. Burden. No. 1,359,228; Nov. 16; v. 280; p. 500.
Calcium cyanamid, Apparatus for improving the grade of. G. E. Cox. No. 1,331,742; Feb. 24; v. 271; p. 569.
Calcium fluorid precipitate, Obtaining. W. S. Chase. No. 1,329,072; Jan. 27; v. 270; p. 539.
Calculating device. F. L. Prescott. No. 1,338,588; Apr. 27; v. 273; p. 749.
Calculating device, Elapsed-time-. L. G. Zesbaugh. No. 1,332,572; Mar. 2; v. 272; p. 38.
Calculating instrument. H. C. Ford. No. 1,332,210; Mar. 2; v. 272; p. 6.
Calculating-machine. W. O. J. Anderson. No. 1,338,481; Apr. 27; v. 273; p. 730.
Calculating-machine. W. O. J. Anderson. No. 1,353,504; Sept. 21; v. 278; p. 445.
Calculating-machine. C. Birth. No. 1,339,542; May 11; v. 274; p. 242.
Calculating-machine. H. A. Bowers. No. 1,347,245; July 20; v. 276; p. 499.
Calculating-machine. J. Bricken. No. 1,334,278; Mar. 23; v. 272; p. 555.
Calculating-machine. A. Briechle. No. 1,335,815; Apr. 6; v. 273; p. 21.
Calculating-machine. G. C. Chase. No. 1,329,262; Jan. 27; v. 270; p. 575.
Calculating-machine. A. S. Dennis. No. 1,356,605; Oct. 26; v. 279; p. 563.
Calculating-machine. A. F. Dodson. No. 1,336,686; Apr. 13; v. 273; p. 246.
Calculating-machine. J. C. Enberg. No. 1,341,049; May 25; v. 274; p. 656.
Calculating-machine. J. F. Fritts. No. 1,333,167; Mar. 9; v. 272; p. 240.
Calculating-machine. H. Hopkins. No. 1,336,904; Apr. 13; v. 273; p. 288.
Calculating-machine. W. E. Hosch. No. 1,327,044; Jan. 6; v. 270; p. 31.
Calculating-machine. V. J. Odhner. No. 1,348,575; Aug. 3; v. 277; p. 86.
Calculating-machine. V. J. Odhner. No. 1,348,576; Aug. 3; v. 277; p. 87.
Calculating-machine. V. J. Odhner. No. 1,361,542; Dec. 7; v. 281; p. 114.
Calculating-machine. F. B. Palmer. No. 1,330,278; Feb. 10; v. 271; p. 205.
Calculating-machine. A. Pentecost. No. 1,328,847; Jan. 27; v. 270; p. 496.
Calculating-machine. A. Pentecost. No. 1,342,969; June 8; v. 275; p. 319.
Calculating-machine. A. Pentecost and W. W. Fisher. No. 1,355,258; Oct. 12; v. 279; p. 213.
Calculating-machine. E. E. Phinney. No. 1,330,651; Feb. 10; v. 271; p. 275.
Calculating-machine. E. E. Phinney. No. 1,354,840; Oct. 5; v. 279; p. 78.
Calculating-machine. A. F. Poole. No. 1,334,316; Mar. 23; v. 272; p. 563.
Calculating-machine. K. V. Rudin. No. 1,352,029; Sept. 7; v. 278; p. 62.
Calculating-machine. K. V. Rudin. No. 1,360,322; Nov. 30; v. 280; p. 830.
Calculating-machine. E. C. Schinke and N. A. Sutherland. No. 1,358,114; Nov. 9; v. 280; p. 236.
Calculating-machine. M. Teetor. No. 1,344,191; June 22; v. 275; p. 687.
Calculating-machine. F. J. Tillman. No. 1,353,293; Sept. 21; v. 278; p. 403.
Calculating-machine. J. A. V. Turck. No. 1,357,747; Nov. 2; v. 280; p. 104.
Calculating-machine. J. A. V. Turck. No. 1,357,748; Nov. 2; v. 280; p. 104.
Calculating-machine. J. C. Wahl. No. 1,349,024; Aug. 10; v. 277; p. 225.
Calculating-machine drive. E. S. Ensign. No. 1,331,561; Feb. 24; v. 271; p. 585.
Calculating-machine gears. Over-rotation check for. E. E. Phinney. No. 1,349,628; Aug. 17; v. 277; p. 417.
Calculating-machines, Automatic carriage-raising means for. E. E. Phinney. No. 1,335,349; Mar. 30; v. 272; p. 818.
Calculating-machines, Carriage-shifting means for. E. E. Phinney. No. 1,330,652; Feb. 10; v. 271; p. 275.
Calculating-machines, Carrying mechanism for. E. E. Phinney. No. 1,354,841; Oct. 5; v. 279; p. 78.
Calculating-machines, Dating mechanism for. W. S. Gubelmann. No. 1,348,942; Aug. 10; v. 277; p. 209.
Calculating-machines, Detent for. E. E. Svensson. No. 1,334,974; Mar. 30; v. 272; p. 747.
Calculating-machines, Horizontal ruling mechanism for. W. S. Gubelmann. No. 1,333,307; Mar. 9; v. 272; p. 266.
Calculating-machines, Key-interlocking mechanism for. W. S. Gubelmann. No. 1,334,533; Mar. 23; v. 272; p. 603.
Calculating-machines, Step-by-step mechanism in. K. V. Rudin. No. 1,352,030; Sept. 7; v. 278; p. 62.
Calculating-machines, Transfer mechanism of. V. J. Odhner. No. 1,355,565; Oct. 12; v. 279; p. 273.
Calculating-machines, Work-support for. J. H. Huber. No. 1,335,239; Mar. 30; v. 272; p. 797.
Calculating-machines, Zero-setting mechanism for. E. E. Phinney. No. 1,330,653; Feb. 10; v. 271; p. 276.
Calculator. A. B. Christopher. No. 1,343,660; June 15; v. 275; p. 518.
Calculator. H. W. Nieman. No. 1,330,132; Feb. 10; v. 271; p. 179.
Calculator. M. Swenson. No. 1,336,990; Apr. 13; v. 273; p. 304.
Calculator. E. C. Walter. No. 1,362,550; Dec. 14; v. 281; p. 359.
Calculator. H. A. Wrenn. No. 1,341,962; June 1; v. 275; p. 68.
Calculator, Cylindrical interest-. D. Jankower. No. 1,333,078; Mar. 9; v. 272; p. 224.
Calculator, Interest-. C. S. Middleton. No. 1,349,081; Aug. 10; v. 277; p. 236.
Calculator, Spherical triangle. R. Huntington. No. 1,338,730; May 4; v. 274; p. 15.
Calculators, Ribbon-shifting means for. W. Fuhrmann. No. 1,352,593; Sept. 14; v. 278; p. 305.
Calendar. M. J. Friedman. No. 1,328,830; Jan. 27; v. 270; p. 492.
Calendar. A. Latier. No. 1,339,401; May 11; v. 274; p. 214.
Calendar. J. E. Melton. No. 1,363,427; Dec. 28; v. 281; p. 620.
Calendar. E. G. Pennington. No. 1,346,764; July 13; v. 276; p. 346.
Calendar. P. Rice. No. 1,350,114; Aug. 17; v. 277; p. 511.
Calendar. W. W. White. No. 1,343,601; June 15; v. 275; p. 506.
Calendar accounting means. J. E. Phillips. No. 1,341,018; May 25; v. 274; p. 650.

Digitized by Google

Calendar device, Perpetual-. G. F. Hahn. No. 1,334,081; Mar. 16; v. 272; p. 464.
Calendar-hanger. P. Stewenie. No. 1,348,245; Aug. 3; v. 277; p. 23.
Calendar-head. J. B. Weber. No. 1,347,882; July 27; v. 276; p. 683.
Calendar, Past and future reference-. W. H. Ricks, Jr., and W. Meisenbach. No. 1,330,281; Feb. 10; v. 271; p. 206.
Calendar, Perpetual. S. G. Edwards. No. 1,345,150; June 29; v. 275; p. 938.
Calendar, Perpetual. F. A. Fuller. No. 1,327,317; Jan. 6; v. 270; p. 81.
Calendar, Perpetual. J. L. Hutson. No. 1,353,751; Sept. 21; v. 278; p. 495.
Calendar, Perpetual. S. G. Monk., No. 1,360,004; Nov. 23; v. 280; p. 699.
Calendar, Perpetual. R. Pentland. No. 1,348,044; July 27; v. 276; p. 715.
Calender-guide. T. P. Little. No. 1,340,234; May 18; v. 274; p. 430.
Calendar-rack. J. T. Tice. No. 1,361,508; Dec. 7; v. 281; p. 107.
Calendars, Holder for pad-. F. A. Hale. No. 1,353,832; Sept. 28; v. 278; p. 554.
Calf-weaner. W. R. Barger. No. 1,338,606; Apr. 27; v. 273; p. 753.
Calibrating-machine. J. R. Heeger. No. 1,330,319; Feb. 10; v. 271; p. 213.
Caliper. T. B. Powers. No. 1,345,236; June 29; v. 275; p. 954.
Caliper. D. V. Zhukoff. No. 1,355,724; Oct. 12; v. 279; p. 303.
Caliper, Micrometer-. F. O. Jaques, Sr. No. 1,349,612; Aug. 17; v. 277; p. 414.
Caliper, Micrometer-. A. Wyzenbeek. No. 1,354,010; Sept. 28; v. 278; p. 590.
Caliper or indicating gage. F. E. Ormsby. No. 1,349,091; Aug. 10; v. 277; p. 238.
Caliper, Wall-. H. C. Metzger. No. 1,356,214; Oct. 19; v. 279; p. 441.
Calipers. R. Eames. No. 1,328,651; Jan. 20; v. 270; p. 430.
Calipers. G. H. Johnston. No. 1,328,566; Jan. 20; v. 270; p. 415.
Calipers. J. W. Lovell. No. 1,358,321; Nov. 9; v. 280; p. 277.
Calipers. F. Spaulding. No. 1,333,943; Mar. 16; v. 273; p. 447.
Calipers. L. D. Spence. No. 1,337,165; Apr. 13; v. 273; p. 337.
Calipers, Combination micrometer-. J. V. Romig. No. 1,361,406; Dec. 7; v. 281; p. 85.
Calipers, Double-jaw. L. Rouanet. No. 1,327,216; Jan. 6; v. 270; p. 63.
Calipers, Micrometer-. F. O. Jacques, Sr. No. 1,361,156; Dec. 7; v. 281; p. 35.
Calipers, Sliding. E. Challet. No. 1,351,941; Sept. 7; v. 278; p. 46.
Calking device. P. R. Smith. No. 1,333,286; Mar. 9; v. 272; p. 262.
Calking-machine. C. K. Bulgarides. No. 1,334,836; Mar. 23; v. 272; p. 661.
Call-box. S. R. Boone. No. 1,358,023; Nov. 16; v. 280; p. 462.
Call-distributing system. L. Polinkowsky. No. 1,340,979; May 25; v. 274; p. 642.
Calligraphic device. J. G. King and J. E. Heffernan. No. 1,361,874; Dec. 14; v. 281; p. 226.
Calling device. H. P. Claussen. No. 1,337,198; Apr. 20; v. 273; p. 418.
Calling device. J. A. Hall. No. 1,337,314; Apr. 20; v. 273; p. 440.
Calling device. W. Kaisling. No. 1,360,113; Nov. 23; v. 280; p. 721.
Calorimeter, Gas-. W. G. Laird. No. 1,354,568; Oct. 5; v. 279; p. 24.
Cam. W. Buhl. No. 1,349,661; Aug. 17; v. 277; p. 424
Cam. W. M. Evensen. No. 1,331,746; Feb. 24; v. 271; p. 570.
Cam. R. C. Mitchell. No. 1,331,076; Feb. 17; v. 271; p. 425.
Cam. P. W. Murphy. No. 1,339,276; May 4; v. 274; p. 115.
Cam and push-rod machine. J. Holle. No. 1,340,717; May 18; v. 274; p. 521.
Cam-cutting attachment. G. L. Bower. No. 1,351,365; Aug. 31; v. 277; p. 865.
Cam-driving device for actuating the pistons of a plurality of pumps. Common. E. Woerner. No. 1,336,803; Apr 13; v. 273; p. 268.
Cam-path-generating machine. E. E. Foster. No. 1,347,085; July 20; v. 276; p. 468.
Cam-shaft drive. E. L. Lefranc. No. 1,334,059; Mar. 23; v. 272; p. 627.
Camera. B. Borland. No. 1,351,279; Aug. 31; v. 277; p. 847.
Camera. W. T. Cardwell. No. 1,341,543; May 25; v. 274; p. 751.
Camera. K. Chen. No. 1,339,319; May 4; v. 274; p. 123
Camera. F. M. Cossitt. No. 1,363,090; Dec. 21; v. 281; p. 515.
Camera. W. A. Eberman. No. 1,361,031; Dec. 7; v. 281; p. 10.
Camera. C. G. Johnson. No. 1,352,134; Sept. 7; v. 278; p. 81.
Camera. M. F. Kennedy, Jr. No. 1,328,741; Jan. 20; v. 270; p. 447.
Camera. C. M. March and C. L. Tidd. No. 1,341,718; June 1; v. 275; p. 20.
Camera. A. J. Miller. No. 1,344,182; June 22; v. 275; p. 685.
Camera. W. Parkes. No. 1,336,441; Apr. 13; v. 273; p. 199.
Camera. R. H. Pearman. No. 1,341,017; May 25; v. 274; p. 650.
Camera. R. H. Pearman. No. 1,353,266; Sept. 21; v. 278; p. 398.
Camera. H. J. Perrier. No. 1,346,461; July 13; v. 276; p. 286.
Camera. D. A. Sine. No. 1,330,400; Feb. 10; v. 271; p. 229.
Camera. L. Teitzel. No. 1,357,363; Nov. 2; v. 280; p. 31.
Camera. E. W. Tucker. No. 1,345,288; June 29; v. 275; p. 965.
Camera and film case, Combination. R. L. Atwell. No. 1,354,011; Sept. 28; v. 278; p. 590.
Camera and projector, Motion-picture. O. R. De Lisle. No. 1,334,931; Mar. 23; v. 272; p. 681.
Camera attachment. H. J. Brown. No. 1,327,188; Jan. 6; v. 270; p. 48.
Camera attachment. E. Pieri. No. 1,354,999; Oct. 5; v. 279; p. 109.
Camera, Autographic. A. C. Moss. No. 1,363,899; Dec. 28; v. 281; p. 712.
Camera, Automatic film-winding. M. B. Gordon. No. 1,331,848; Feb. 24; v. 271; p. 590.
Camera, Automatic film-winding. M. B. Gordon. No. 1,331,849; Feb. 24; v. 271; p. 590.
Camera, Copying-. A. F. Jobke. No. 1,344,806; June 29; v. 275; p. 890.
Camera, Copying and enlarging. J. Becker. No. 1,339,090; May 4; v. 274; p. 82.
Camera, Copying or enlarging. J. Becker. No. 1,342,735; June 8; v. 275; p. 272.
Camera, Copying or enlarging. J. Becker. No. 1,343,889; June 15; v. 275; p. 564.
Camera, Folding. J. Bordigion. No. 1,356,595; Oct. 26; v. 279; p. 561.
Camera, Gun-. E. C. Bass. No. 1,345,981; July 6; v. 276; p. 129.
Camera, Gun-. J. A. Robertson and P. W. Tierney. No. 1,360,443; Nov. 30; v. 280; p. 854.
Camera-indicator. E. M. Woodworth. No. 1,356,583; Oct. 26; v. 279; p. 559.
Camera, Motion-picture. J. A. Golden. No. 1,340,539; May 18; v. 274; p. 48.
Camera, Motion-picture. W. Parkes. No. 1,352,143; Sept. 7; v. 278; p 83.
Camera, Motion-picture. G. R. Stringham. No. 1,334,057; Mar. 16; v. 272; p. 468.
Camera, Motion-picture. G. R. Stringham. No. 1,363,822; Dec. 28; v. 281; p. 697.
Camera, Moving-picture. F. N. Hallett. No. 1,363,249; Dec. 28; v. 281; p. 587.
Camera, Moving-picture. S. M. Lawhun. No. 1,359,392; Nov. 16; v. 280; p. 533.
Camera, Panoramic. J. E. Stromberg. No. 1,347,062; July 20; v. 276; p. 464.
Camera, Photographic. C. C. Balston. No. 1,362,833; Dec. 21; v. 281; p. 466.
Camera, Photographic. J. Becker. No. 1,343,888; June 15; v. 275; p. 564.
Camera, Photographic. R. L. Colter and E. F. Rioux. No. 1,362,397; Dec. 14; v. 281; p. 329.
Camera, Photographic. W. F. Folmer. No. 1,335,728; Apr. 6; v. 273; p. 5.
Camera, Photographic. J. F. Wall and J. F. Coonan. No. 1,362,548; Dec. 14; v. 281; p. 358.
Camera, Reflex. V. M. Harris. No. 1,352,449; Sept. 14; v. 278; p. 176.
Camera, Reflex focal-plane. M. B. Boyce. No. 1,348,778; Aug. 3; v. 277; p. 125.
Camera self-timer. M. Horie. No. 1,333,918; Mar. 16; v. 272; p. 441.
Camera-shutter and operating mechanism therefor. T. Wallace. No. 1,361,939; Dec. 14; v. 281; p. 258.
Camera-shutter-controlling device. H. W. Arthur. No. 1,354,461; Oct. 5; v. 279; p. 3.
Camera-shutter exposure-lock. S. Graham. No. 1,365,328; Oct. 12; v. 279; p. 227.
Camera-shutters, Automatic controller for. H. A. Markle. No. 1,334,501; Mar. 23; v. 272; p. 597.
Camera-shutters relative to flash-lights, Regulating device for timing. R. E. Froelich. No. 1,332,173; Feb. 24; v. 271; p. 649.
Camera-sighter. W. Logan. No. 1,359,515; Nov. 23; v. 280; p. 602.
Camera-spools, Means for holding film-covering strips to. E. L. Poor. No. 1,330,494; Feb. 10; v. 271; p. 246.
Camera, Subterranean. J. B. Dilts. No. 1,331,627; Feb. 24; v. 271; p. 548.

Digitized by Google

Alphabetical list of inventions—Continued.

Camera timing attachment. P. Chilimidos. No. 1,344,440; June 22; v. 275; p. 736.
Camera-timing device. N. S. McEwen. No. 1,339,117; May 4; v. 274; p. 88.
Camera-tripping device. M. F. Jourdan. No. 1,337,608; Apr. 20; v. 273; p. 494.
Cameras, Autographic attachment for. M. B. Boyce. No. 1,342,155; June 1; v. 275; p. 106.
Cameras, Collapsible lensless finder for folding. A. D. Northrup. No. 1,345,224; June 29; v. 275; p. 952.
Cameras, Direct-vision view-finder for motion-picture. W. M. Thomas. No. 1,353,191; Sept. 21; v. 278; p. 384.
Cameras, Double-exposure mechanism for motion-picture. J. E. Leonard. No. 1,352,668; Sept. 14; v. 278; p. 220.
Cameras, Feeding and measuring device for rolls of sensitized strips employed in photographic. L. Miles. No. 1,344,207; June 22; v. 275; p. 690.
Cameras, Film and shutter controlling device for. A. H. Roikjer. No. 1,331,852; Feb. 24; v. 271; p. 591.
Cameras, Film-magazine for motion-picture. H. D. Aylsworth. No. 1,332,374; Mar. 2; v. 272; p. 39.
Cameras, Film-spool for photographic. J. H. Ramsey. No. 1,335,917; Apr. 6; v. 273; p. 40.
Cameras, Finder attachment for. G. J. MacDowell. No. 1,330,273; Feb. 10; v. 271; p. 205.
Cameras, Flash-light for. E. O. Swafford. No. 1,330,149; Feb. 10; v. 271; p. 182.
Cameras, Identification attachment for exposure-. J. R. Hofmann and C. Laughlin. No. 1,363,414; Dec. 28; v. 281; p. 617.
Cameras, Inscription printing attachment for. S. G. Zuckerman. No. 1,336,330; Apr. 6; v. 273; p. 118.
Cameras, Leveling attachment for. D. D. Hahne. No. 1,341,553; May 25; v. 274; p. 753.
Cameras, Leveling device for photographic. N. Garoff. No. 1,357,704; Nov. 2; v. 280; p. 95.
Cameras, Operating device for. C. H. Arnold. No. 1,358,919; Nov. 16; v. 280; p. 442.
Cameras, Plate-holder for photographic. J. Goddard. No. 1,343,773; June 15; v. 275; p. 541.
Cameras, Print-conveying conduit for. H. T. d'Albert. No. 1,358,622; Nov. 9; v. 280; p. 338.
Cameras, Shutter mechanism for motion-picture. E. J. Pennypacker. No. 1,340,557; May 18; v. 274; p. 491.
Cameras, Title attachment for. W. F. Gongaware. No. 1,362,787; Dec. 21; v. 281; p. 457.
Cameras, View-finder for. H. A. McCallum. No. 1,340,618; May 18; v. 274; p. 503.
Cameras, View-finder for. H. A. McCallum. No. 1,340,619; May 18; v. 274; p. 503.
Camisole. L. Platt. No. 1,348,004; June 22; v. 275; p. 651.
Camp-iron, Folding. A. C. Busby. No. 1,329,955; Feb. 3; v. 271; p. 114.
Camp-table. W. J. and M. E. Russell. No. 1,335,704; Mar. 30; v. 272; p. 884.
Camp-table, Folding automobile. R. B. Holland. No. 1,339,028; May 4; v. 274; p. 70.
Camping outfit. H. Puff. No. 1,332,635; Mar. 2; v. 272; p. 88.
Camping device, Folding. J. F. Long. No. 1,351,178; Aug. 31; v. 277; p. 826.
Camping outfit. A. C. Sagel. No. 1,341,441; May 25; v. 274; p. 732.
Camphor, Oxidizing iso-borneol to. R. L. Andreau. No. 1,347,071; July 20; v. 276; p. 465.
Can: *See*—
Ash-can.
Collapsible can.
Cracker-can.
Dispensing-can.
Douche-can.
Dredge or sifter can.
Garbage-can.
Ice-can.
Knockdown can.
Measuring-can.
Nozzle-can.
Oil-can.
Sheet-metal can.
Trash-can.
Can. J. Dister. No. 1,348,550; Aug. 3; v. 277; p. 81.
Can. W. E. Jones, Jr. No. 1,356,507; Oct. 19; v. 279; p. 497.
Can. F. P. McColl and W. W. Willison. No. 1,337,526; Apr. 20; v. 273; p. 480.
Can attachment, Sanitary garbage-. M. Dawson. No. 1,360,732; Nov. 30; v. 280; p. 911.
Can-bodies. Apparatus for flanging. J. A. Gray. No. 1,356,980; Oct. 26; v. 279; p. 637.
Can-bodies, Machine for clenching ends to. A. Johnson. No. 1,338,316; Mar. 9; v. 272; p. 268.
Can-bodies, Mechanism for seaming ends to. J. A. Gray. No. 1,327,994; Jan. 13; v. 270; p. 269.
Can-bottoming machine. E. L. Crouch. No. 1,362,083; Dec. 14; v. 281; p. 267.
Can-boxing machine. H. G. Dewey. No. 1,348,549; Aug. 3; v. 277; p. 81.
Can cap and seal. J. W. Kerr. No. 1,343,782; June 15; v. 275; p. 542.
Can-closing machine. P. W. Fleischer. No. 1,330,071; Feb. 10; v. 271; p. 167.
Can-closing machine. P. W. Fleischer. No. 1,363,767; Dec. 28; v. 281; p. 686.
Can-closing machine. A. L. Kronquest and J. C. Talla ferro. No. 1,348,650; Aug. 3; v. 277; p. 101.
Can-closing machine. F. Rudolphi. No. 1,327,966; Jan. 13; v. 270; p. 264.
Can-closing machine. I. F. Warme. No. 1,332,785; Mar. 2; v. 272; p. 117.
Can-closing machines, Packer for filled-. I. F. Warme and R. A. Blood. No. 1,341,487; May 25; v. 274; p. 741.
Can-closure. W. H. Sörensen. No. 1,354,519; Oct. 5; v. 279; p. 14.
Can-closure. E. P. Starcke. No. 1,327,067; Jan. 6; v. 270; p. 35.
Can closure, Dispensing-. J. H. Howard. No. 1,343,825; June 15; v. 275; p. 551.
Can-cover-lining machines, Non-circular-. J. Brenzinger. No. 1,347,483; July 20; v. 276; p. 546.
Can-cover-marking device. I. F. Warne and R. A. Blood. No. 1,329,941; Feb. 3; v. 271; p. 112.
Can cover. Milk-. R. T. Masanz. No. 1,330,328; Feb. 10; v. 271; p. 215.
Can-cover remover. H. B. Siegmund. No. 1,333,136; Mar. 9; v. 272; p. 234.
Can-cover remover. H. B. Siegmund. No. 1,357,353; Nov. 2; v. 280; p. 29.
Can-cover remover. W. Winkler. No. 1,335,084; Mar. 30; v. 272; p. 768.
Can-cover-removing apparatus. J. M. Rude. No. 1,340,409; May 18; v. 274; p. 463.
Can cover, Sanitary milk-. M. A. Blosser. No. 1,351,611; Aug. 31; v. 277; p. 913.
Can covers, Clamping and locking means for milk-. J. B. Conover. No. 1,361,141; Dec. 7; v. 281; p. 32.
Can-covering. J. M. Hatfield. No. 1,353,236; Sept. 21; v. 278; p. 392.
Can-distributing device. C. H. Ayars. No. 1,352,718; Sept. 14; v. 278; p. 230.
Can-drying apparatus, Pneumatic. F. G. Foss. No. 1,361,039; Dec. 7; v. 281; p. 12.
Can-end clencher. I. F. Warme. No. 1,329,259; Jan. 27; v. 270; p. 574.
Can-end feed mechanism. J. A. Gray. No. 1,349,833; Aug. 17; v. 277; p. 457.
Can-end lines, Cutting and handling. C. W. Graham. No. 1,355,040; Oct. 5; v. 279; p. 117.
Can-end-lining machine. C. W. Graham. No. 1,343,913; June 22; v. 275; p. 654.
Can-end-lining machine. C. W. Graham. No. 1,348,560; Aug. 3; v. 277; p. 83.
Can-end-lining machine. C. W. Graham. No. 1,351,163; Aug. 31; v. 277; p. 823.
Can ends and apparatus therefor, Manufacturing gasket-lined. C. W. Graham. No. 1,343,914; June 22; v. 275; p. 634.
Can ends, Apparatus for assembling and securing ring-liners to. I. D. Thornburgh. No. 1,363,542; Dec. 28; v. 281; p. 643.
Can ends, Apparatus for cutting and applying ring-liners to the flanges of. C. M. Symonds. No. 1,328,020; Jan. 13; v. 270; p. 274.
Can ends, Lining. N. A. Acker. No. 1,336,013; Apr. 6; v. 273; p. 59.
Can ends, Stackholder for. M. M. Sedwick. No. 1,347,295; July 20; v. 276; p. 509.
Can-filling machine. O. H. Hansen. No. 1,359,367; Nov. 16; v. 280; p. 528.
Can-filling machine. J. Schmidt, Jr. No. 1,340,185; May 18; v. 274; p. 421.
Can-filling machine. C. E. Steere. No. 1,346,141; July 13; v. 276; p. 222.
Can-filling machines, Feeder for. C. E. Steere. No. 1,343,417; June 15; v. 275; p. 470.
Can funnel and spout. T. Kitaoka. No. 1,354,110; Sept. 28; v. 278; p. 611.
Can handle, Milk-. P. Lambrakos. No. 1,353,050; Sept. 14; v. 278; p. 206.
Can-handling device. M. R. Blank and L. F. Sitkiewitz. No. 1,350,984; Aug. 24; v. 277; p. 726.
Can-heading device. N. A. Gibbons. No. 1,355,465; Oct. 12; v. 279; p. 253.
Can-heading machine. J. Brenzinger. No. 1,351,831; Sept. 7; v. 278; p. 23.
Can holder and protector, Milk-. R. D. Green. No. 1,346,451; July 13; v. 276; p. 283.
Can holder, Oil-. R. J. Ryan. No. 1,354,693; Oct. 5; v. 279; p. 49.
Can lever mechanism, Oil-. G. Lidseen. No. 1,346,130; July 13; v. 276; p. 220.
Can-lids, Screwing appliance for. N. L. Roy. No. 1,335,259; Mar. 30; v. 272; p. 800.
Can-lifter. M. E. Shirkey. No. 1,363,928; Dec. 28; v. 281; p. 718.
Can-making machine. P. Kruse. No. 1,333,550; Mar. 9; v. 272; p. 312.
Can-marking machine. C. E. Huber. No. 1,359,807; Nov. 23; v. 280; p. 660.
Can nozzle and closure therefor, Metal-. G. A. Williams. No. 1,339,245; May 4; v. 274; p. 110.
Can-nozzle cap. E. E. Andrews. No. 1,359,651; Nov. 23; v. 280; p. 629.
Can-opener. R. V. Adels. No. 1,359,305; Nov. 16; v. 280; p. 515.
Can-opener. E. Andersen. No. 1,360,256; Nov. 30; v. 280; p. 817.
Can-opener. W. F. Blake. No. 1,327,134; Jan. 6; v. 270; p. 48.

Digitized by Google

Can-opener. G. A. Carlson. No. 1,336,126; Apr. 6; v. 273; p. 80.
Can-opener. M. S. Dickson. No. 1,348,484; Aug. 3; v. 277; p. 69.
Can-opener. C. Finley. No. 1,341,421; May 25; v. 274; p. 728.
Can-opener. M. L. Hawks. No. 1,337,514; Apr. 20; v. 273; p. 477.
Can-opener. C. E. Holmes. No. 1,361,859; Dec. 14; v. 281; p. 223.
Can-opener. J. D. Houck. No. 1,354,399; Sept. 28; v. 278; p. 669.
Can-opener. A. A. Johanson. No. 1,331,437; Feb. 17; v. 271; p. 491.
Can-opener. P. Mullane. No. 1,334,782; Mar. 23; v. 272; p. 651.
Can-opener. E. O. Murmann. No. 1,329,133; Jan. 27; v. 270; p. 550.
Can-opener. E. O. Murmann. No. 1,337,148; Apr. 13; v. 273; p. 334.
Can-opener. E. O. Murmann. No. 1,338,643; Apr. 27; v. 273; p. 760.
Can-opener. E. O. Murmann. No. 1,356,651; Oct. 26; v. 279; p. 572.
Can-opener. L. Osmundsen. No. 1,335,598; Mar. 30; v. 272; p. 864.
Can-opener. J. J. Salmon. No. 1,333,450; Mar. 9; v. 272; p. 293.
Can-opener. R. M. Stewart. No. 1,348,760; Aug. 3; v. 277; p. 121.
Can-opener. H. G. Wernimont. No. 1,331,605; Feb. 24; v. 271; p. 543.
Can-opener. B. G. Worthington. No. 1,364,016; Dec. 28; v. 281; p. 735.
Can opener, cover, and dispenser, Combined. W. F. Simmons. No. 1,348,519; Aug. 3; v. 277; p. 75.
Can-opening device. C. H. Nowack. No. 1,359,830; Nov. 23; v. 280; p. 665.
Can-opening device. C. H. Nowack. No. 1,362,132; Dec. 14; v. 281; p. 277.
Can or container. J. R. Harbeck. No. 1,338,688; May 4; v. 274; p. 7.
Can or container. W. H. Lazarus. No. 1,328,881; Jan. 27; v. 270; p. 503.
Can or container. I. C. Popper. No. 1,331,372; Feb. 17; v. 271; p. 479.
Can or jar and its closure. W. A. Lorenz. No. 1,333,761; Mar. 16; v. 272; p. 413.
Can piercing and serving device. W. W. Harris. No. 1,330,803; Feb. 17; v. 271; p. 372.
Can-polishing machine. O. W. Mojonnier. No. 1,338,949; May 4; v. 274; p. 55.
Can-punch. J. E. Hawkins. No. 1,338,300; Apr. 27; v. 273; p. 696.
Can-punching guide and cover. W. P. Montgomery. No. 1,361,395; Dec. 7; v. 281; p. 83.
Can-rack. A. A. Kramer. No. 1,351,253; Aug. 31; v. 277; p. 841.
Can-sealing composition. T. C. Wester. No. 1,341,489; May 25; v. 274; p. 742.
Can selecting and weighing apparatus. G. J. Koehl. No. 1,343,458; June 15; v. 275; p. 478.
Can-spout. H. H. Shaw. No. 1,342,299; June 1; v. 275; p. 134.
Can-tester. W. J. Phelps. No. 1,344,515; June 22; v. 275; p. 751.
Can-top. J. P. Eulberg. No. 1,333,297; Mar. 9; v. 272; p. 264.
Can-tops, Machine for applying compound to. N. Troyer. No. 1,352,641; Sept. 14; v. 278; p. 215.
Can-treating apparatus. J. M. Rude. No. 1,340,408; May 18; v. 274; p. 463.
Can-washer. G. C. Wiltsie. No. 1,342,485; June 8; v. 275; p. 223.
Can-washing machine. H. D. Lathrop and W. H. Paulson. No. 1,336,570; Apr. 13; v. 273; p. 223.
Can-washing machines, Can-reversing mechanism for. H. D. Lathrop and W. H. Paulson. No. 1,336,567; Apr. 13; v. 273; p. 223.
Can-washing machines, Carrier for. H. D. Lathrop. No. 1,336,568; Apr. 13; v. 273; p. 223.
Cans and conduit-bushings, Closure for. V. E. Randall. No. 1,348,317; Aug. 3; v. 277; p. 37.
Cans, Bail-ear fastening for. H. K. Smith. No. 1,353,080; Sept. 14; v. 278; p. 302.
Cans, bottles, jars, &c., Closure for. R. Flanigan. No. 1,360,911; Nov. 30; v. 280; p. 945.
Cans, buckets, &c., Lail for. J. F. Tiner. No. 1,360,056; Nov. 23; v. 280; p. 709.
Cans, Closure for garbage-. H. Young. No. 1,333,051; Mar. 9; v. 272; p. 218.
Cans, Closure for sanitary. A. Johnson. No. 1,348,567; Aug 3; v. 277; p. 85.
Cans, Covering for condensed-milk. K. M. Tiefenbrun. No. 1,349,591; Aug. 17; v. 277; p. 410.
Cans, Device for securing protecting-jackets upon. W. H. Semon. No. 1,353,280; Sept. 21; v. 278; p. 401.
Cans, Identification-marker for receptacles such as milk-. B. F. Combs. No. 1,348,628; Aug. 3; v. 277; p. 97.
Cans, Lever operating mechanism for oil-. G. Lidseen. No. 1,345,788; July 6; v. 276; p. 90.
Cans, Machine for boxing sardine-. R. F. Jones. No. 1,337,404; Apr. 20; v. 273; p. 457.
Cans, Machine for working on. P. Kruse. No. 1,333,084; Mar. 9; v. 272; p. 225.
Cans, Means for attaching direction-sheets to. L. A. Wolters. No. 1,343,953; June 22; v. 275; p. 641.
Cans, Measuring attachment for. P. M. Rosenwasser. No. 1,346,558; July 13; v. 276; p. 305.
Cans, Method of and apparatus for wrapping. H. G. Dewey. No. 1,337,693; Apr. 20; v. 273; p. 511.
Cans, Perforating attachment for. E. Reynolds. No. 1,356,220; Oct. 19; v. 279; p. 442.
Cans, Pouring-spout for. F. T. Servis. No. 1,328,104; Jan. 13; v. 270; p. 290.
Cans, Reversible pouring-spout for. M. M. Marcuse. No. 1,342,639; June 8; v. 275; p. 252.
Cans, Safety-top for. P. H. O'Connor. No. 1,332,515; Mar. 2; v. 272; p. 66.
Cans, Slip-cover for. H. L. Strongson. No. 1,343,099; June 8; v. 275; p. 345.
Cans, Threaded closure for. V. Odquist. No. 1,330,088; Feb. 10; v. 271; p. 170.
Canned products, Processing apparatus for. A. C. Richardson. No. 1,328,202; Jan. 13; v. 270; p. 309.
Cannery-tables, Operator's seat for. W. H. Gavin. No. 1,344,940; June 29; v. 275; p. 898.
Canning and cooking devices, Steam-generator for. J. W. Williams. No. 1,344,326; June 22; v. 275; p. 713.
Canning apparatus. M. M. Lockard. No. 1,335,587; Mar. 30; v. 272; p. 861.
Canning apparatus. F. P. McColl and W. W. Willison. No. 1,345,380; July 6; v. 276; p. 11.
Canning-boiler. P. Belvin. No. 1,341,353; May 25; v. 274; p. 715.
Canning process. J. L. Kivlan. No. 1,348,808; Aug. 3; v. 277; p. 130.
Canal-gate. C. F. Perry. No. 1,333,217; Mar. 9; v. 272; p. 249.
Candelabrum. I. Harmata. No. 1,331,709; Feb. 24; v. 271; p. 563.
Candles and the product obtained thereby, Treatment of. W. J. Overbeck. No. 1,327,113; Jan. 6; v. 270; p. 44.
Candy-cutter. N. M. Clark and C. E. Hubback. No. 1,355,893; Oct. 19; v. 279; p. 377.
Candy-cutting mechanism, Stick-. R. W. Thompson. No. 1,355,017; Oct. 5; v. 279; p. 113.
Candy in confectionery, Device for rolling and forming batches of. G. Milke. No. 1,330,764; Feb. 10; v. 271; p. 297.
Candy-making machine. B. E. Allegretti. No. 1,329,282; Jan. 27; v. 270; p. 578.
Candy-making machine. L. E. Dykeman; No. 1,343,120; June 8; v. 275; p. 349.
Candy, Mechanism for guiding and spacing. C. H. Jones. No. 1,342,607; Sept. 14; v. 278; p. 208.
Candy, Method and means for packing. W. Derrenbacher. No. 1,361,312; Dec. 7; v. 281; p. 66.
Candy mold and press. B. H. Smith. No. 1,330,286; Feb. 10; v. 271; p. 207.
Candy-molding machine. C. W. Bunde. No. 1,331,698; Feb. 24; v. 271; p. 560.
Candy package or container. H. C. Boehm. No. 1,334,346; Mar. 23; v. 272; p. 569.
Candy twister, Stick-. R. W. Thompson. No. 1,355,018; Oct. 5; v. 279; p. 113.
Candy-wrapper. W. S. Stoner. No. 1,348,761; Aug. 3; v. 277; p. 121.
Candle-finishing machines, Hoisting apparatus for. E. J. Engman. No. 1,344,445; June 22; v. 275; p. 737.
Candle-holder. C. H. Dietze, Jr. No. 1,350,710; Aug. 24; v. 277; p. 674.
Candle-holder. E. J. Engman. No. 1,344,446; June 22; v. 275; p. 738.
Candle-holder or save-all. R. J. Ross. No. 1,355,696; Oct. 12; v. 279; p. 298.
Candle-socket. H. J. Morey. No. 1,328,581; Jan. 20; v. 270; p. 418.
Candlestick. A. Proppe. No. 1,358,651; Nov. 9; v. 280; p. 344.
Cane. W. W. Karro. No. 1,347,382; July 20; v. 276; p. 526.
Cane and fish-rod, Combined. T. Poremba. No. 1,336,088; Apr. 6; v. 273; p. 72.
Cane, Collapsible. F. Kutwicz. No. 1,336,638; Apr. 13; v. 273; p. 236.
Cane-crushing apparatus. H. Hurter. No. 1,339,600; May 11; v. 274; p. 253.
Cane-cutter, Rotary. W. Searby. No. 1,348,751; Aug. 3; v. 277; p. 119.
Cane-mill. F. B. Rogers. No. 1,355,620; Oct. 12; v. 279; p. 283.
Cane-shifting apparatus. L. D. Gregg. No. 1,332,292; Mar. 2; v. 272; p. 22.
Cane-stripper. I. E. Knowlton. No. 1,360,765; Nov. 30; v. 280; p. 917.
Cane stripper and knife, Combination. J. W. Barwick. No. 1,357,137; Oct. 26; v. 279; p. 668.
Cane stripper and topper. H. O. Scranton. No. 1,333,187; Mar. 9; v. 272; p. 243.
Cannon, Casting. R. I. MacDermott. No. 1,333,593; Mar. 9; v. 272; p. 320.
Cannon, Gas-. J. H. Wily. No. 1,352,715; Sept. 14; v. 278; p. 230.

Digitized by Google

Canoe. A. Yelle. No. 1,346,869; July 20; v. 276; p. 425.
Canopy, Cot-. A. N. Clough. No. 1,335,559; Mar. 30; v. 272; p. 857.
Canopy, Display-rack. C. Bart. No. 1,349,255; Aug. 10; v. 277; p. 272.
Canvas-adjuster. O. J. Rice. No. 1,347,121; July 20; v. 276; p. 474.
Canvas slat. A. Towns. No. 1,362,651; Dec. 21; v. 281; p. 430.
Caoutchouc and producing same. Vulcanized. W. Scott. No. 1,356,495; Oct. 19; v. 279; p. 494.
Cap. J. De Grazia. No. 1,357,620; Nov. 2; v. 280; p. 79.
Cap. M. Fendelman. No. 1,331,701; Feb. 24; v. 271; p. 561.
Cap. J. Josephs. No. 1,352,968; Sept. 14; v. 278; p. 281.
Cap. C. Kornfeld. No. 1,350,869; Aug. 24; v. 277; p. 703.
Cap, Adjustable. P. A. Fischer. No. 1,333,708; Mar. 16; v. 272; p. 408.
Cap, Adjustable. P. A. Fischer. No. 1,337,397; Apr. 20; v. 273; p. 855.
Cap and attaching means therefor, Dust-. J. A. Bowden. No. 1,328,488; Jan. 20; v. 270; p. 400.
Cap and attaching means therefor, Dust-. J. A. Bowden. No. 1,328,801; Jan. 20; v. 270; p. 458.
Cap and dust-cap, Combined valve-. A. B. Catterall. No. 1,336,023; Apr. 6; v. 273; p. 60.
Cap, Automobile-. J. D. McNeill. No. 1,356,542; Oct. 26; v. 279; p. 551.
Cap, Band catsup-. C. Hammer. No. 1,353,801; Sept. 21; v. 278; p. 504.
Cap, Bathing-. O. R. Jeffers. No. 1,349,206; Aug. 10; v. 277; p. 261.
Cap, Blasting-. A. J. Strane. No. 1,358,478; Nov. 9; v. 280; p. 310.
Cap, Bottle-. J. A. Kaye. No. 1,341,177; May 25; v. 274; p. 681.
Cap, Bottle-. F. V. Phillips. No. 1,344,516; June 22; v. 275; p. 751.
Cap, Bottle-. L. M. Rosenthal. No. 1,328,455; Jan. 20; v. 270; p. 393.
Cap, Bottle-. S. N. Tevander. No. 1,335,538; Mar. 30; v. 272; p. 852.
Cap, Bottle or jar. R. A. Russell. No. 1,327,967; Jan. 13; v. 270; p. 264.
Cap, Chimney-. A. M. Peterson. No. 1,340,459; May 18; v. 274; p. 473.
Cap, Core-. P. T. Dodge. No. 1,358,531; Nov. 9; v. 280; p. 320.
Cap, Fur. H. L. Breslaw. No. 1,332,883; Mar. 9; v. 272; p. 186.
Cap holder, Explosive-. G. C. Massey. No. 1,329,986; Feb. 3; v. 271; p. 120.
Cap, Metal. C. Hammer. No. 1,335,054; Mar. 30; v. 272; p. 763.
Cap, Milk-bottle. J. Fisher. No. 1,331,336; Feb. 17; v. 271; p. 472.
Cap, Miner's. M. T. McDonough. No. 1,347,046; July 20; v. 276; p. 461.
Cap or closure, Composite. H. D. Pease and W. P. Cohoe. No. 1,351,438; Aug. 31; v. 277; p. 879.
Cap, Plant-protecting. W. R. Schindler. No. 1,340,631; May 18; v. 274; p. 506.
Cap-remover. C. J. Ryan. No. 1,347,410; July 20; v. 276; p. 532.
Cap remover, Bottle-. J. Eckert. No. 1,328,827; Jan. 27; v. 270; p. 492.
Cap, Screw-. F. G. Wieland. No. 1,327,458; Jan. 6; v. 270; p. 106.
Cap selector, Magnetic crown-. J. J. Gaynor. No. 1,358,725; Nov. 16; v. 280; p. 404.
Cap, Stovepipe-. P. Fojtik. No. 1,340,033; May 11; v. 274; p. 335.
Cap-wrench. J. Dudek. No. 1,363,316; Dec. 28; v. 281; p. 600.
Caps, Dust-. A. L. Just. No. 1,337,606; Apr. 20; v. 273; p. 495.
Caps for armor-piercing projectiles, Manufacture of. R. A. Hadfield, A. G. M. Jack, I. B. Milne, and E. Morse. No. 1,363,467; Dec. 28; v. 281; p. 628.
Caps for receptacles, Forming two-piece. C. R. Keeran. No. 1,340,449; May 18; v. 274; p. 471.
Caps, Forming bottle-. R. E. Bruns. No. 1,333,750; Mar. 16; v. 272; p. 411.
Caps, Head-guard attachment for. G. B. Knight. No. 1,345,933; July 6; v. 276; p. 120.
Caps, Making closure-. F. G. Wieland. No. 1,327,454; Jan. 6; v. 270; p. 106.
Caps, Manufacturing. C. Kornfeld. No. 1,350,868; Aug. 24; v. 277; p. 703.
Caps, Manufacture of rubber bathing-. R. E. Riley. No. 1,353,421; Sept. 21; v. 278; p. 428.
Caps, Mechanism for manufacturing rubber bathing-. R. E. Riley. No. 1,352,383; Sept. 7; v. 278; p. 128.
Capping machine, Bottle. R. R. Root. No. 1,359,534; Nov. 23; v. 280; p. 606.
Capping mechanism. J. J. Gaynor. No 1,350,405; Aug. 24; v. 277; p. 614.
Capsule closure, Collapsible. J. M. Tallantyre. No. 1,361,199; Dec. 7; v. 281; p. 43.
Capsule, Medicinal effervescing. P. M. Miller. No. 1,356,544; Oct. 26; v. 279; p. 551.
Car. W. F. Batho. No. 1,342,085; June 1; v 275; p. 93.
Car. A. Campbell. No. 1,342,089; June 1; v. 275; p. 93.
Car. A. Campbell. No 1,342,095; June 1; v. 275; p. 95.
Car anchorage, Tank-. W. J. Tangerman. No. 1,340,188; May 18; v. 274; p. 422.
Car and platform for locomotive-cranes. W. Ferris. No. 1,358,835; Nov. 16; v. 280; p. 425.
Car and train-pipe coupling. O. Hebert. No. 1,363,973; Dec. 28; v. 281; p. 726.
Car and unicycle and coupling means therefor, Combination railway-. S. N. Stewart. No. 1,342,137; June 1; v. 275; p. 103.
Car annunciator and advertising device, Street-. W. H. Moore and L. L. Fleming. No. 1,363,146; Dec. 21; v. 281; p. 526.
Car annunciators, Street-. J. L. Scroggins. No. 1,350,038; Aug. 17; v. 277; p. 496.
Car, Armored motor-. W. A. Ross. No. 1,333,446; Mar. 9; v. 272; p. 292.
Car, Armored motor-. W. A. Ross. No. 1,358,579; Nov. 9; v. 280; p. 329.
Car-axle journals, Journal-box and lubricator for. L. Y. Williams. No. 1,344,667; June 29; v. 275; p. 846.
Car-axle lubricator. J. M. Urbieta. No. 1,340,808; May 18; v. 274; p. 538.
Car-axle-box mounting. J. E. Bushnell. No. 1,355,639; Oct. 12; v. 279; p. 287.
Car-axle mounting. J. E. Bushnell. No. 1,358,056; Nov. 9; v. 280; p. 225.
Car-axle mounting. J. T. Krieger. No. 1,347,280; July 20; v. 276; p. 506.
Car-body. W. N. Oehm. No. 1,328,006; Jan. 27; v. 270; p. 526.
Car-brake. S. N. Brinker. No. 1,346,171; July 13; v. 276; p. 228.
Car-brake. B. J. O'Neill. No. 1,346,971; July 20; v. 276; p. 446.
Car-brake-actuating mechanism. H. M. Robertson. No. 1,330,282; Feb. 10; v. 271; p. 206.
Car-brake mechanism. W. Hartill-Law. No. 1,344,129; June 22; v. 275; p. 675.
Car, Brazing-. F. P. Dahlstrom and C. R. Sturdevant. No. 1,334,691; Mar. 23; v. 272; p. 633.
Car-bumper. H. E. Billman and F. A. Kell. No. 1,356,959; Oct. 26; v. 279; p. 633.
Car cager, Mine-. J. A. Nolan. No. 1,337,944; Apr. 20; v. 273; p. 960.
Car cager, Mine-. J. A. Nolan. No. 1,337,945; Apr. 20; v. 273; p. 560.
Car cager, Mine-. J. A. Nolan. No. 1,362,958; Dec. 21; v. 281; p. 489.
Car-check. G. M. Johnson. No. 1,338,225; Apr. 27; v. 273; p. 682.
Car-check lock, Mine-. N. Williams. No. 1,330,669; Feb. 10; v. 271; p. 278.
Car, Child's. J. C. Juthe. No. 1,348,118; July 27; v. 276; p. 729.
Car-circuit control. W. J. Overman. No. 1,362,346; Dec. 14; v. 281; p. 319.
Car, Coal-. E. T. Kepner. No. 1,357,994; Nov. 9; v. 280; p. 213.
Car, Composite railway-. S. N. Stewart. No. 1,351,972; Sept. 7; v. 278; p. 52.
Car construction. T. F. Shanahan. No. 1,363,059; Dec. 21; v. 281; p. 509.
Car construction, Advertising. P. C. Colony. No. 1,347,012; July 20; v. 276; p. 453.
Car construction, Freight-. A. N. Warfield. No. 1,330,415; Feb. 10; v. 271; p. 231.
Car construction, Refrigerator-. G. B. Todd. No. 1,330,361; Feb. 10; v. 271; p. 221.
Car construction, Side-door-. O. T. and W. B. Gregg. No. 1,348,170; Aug. 3; v. 277; p. 7.
Car construction, Steel. T. Elliott. No. 1,335,224; Mar. 30; v. 272; p. 794.
Car construction, Tank-. B. D. Lockwood. No. 1,352,981; Sept. 14; v. 278; p. 283.
Car control. G. N. and A. M. Simpson. No. 1,349,388; Aug. 10; v. 277; p. 297.
Car control, Liquid. G. N. Simpson. No. 1,349,387; Aug. 10; v. 277; p. 297.
Car-control mechanism. J. S. McWhirter. No. 1,332,403; Mar. 2; v. 272; p. 44.
Car, Convertible. E. J. Lowry. No. 1,338,942; May 4; v. 274; p. 54.
Car, Convertible. C. B. Steele. No. 1,329,440; Feb. 3; v. 271; p. 18.
Car, Convertible freight. G. W. Dallimore. No. 1,336,682; Apr. 13; v. 273; p. 245.
Car, Convertible freight-. M. A. Norman. No. 1,361,896; Dec. 14; v. 281; p. 230.
Car, Convertible railway-. J. O. Neikirk. No. 1,330,950; Feb. 17; v. 271; p. 401.
Car, Convertible railway-. R. E. Walker. No. 1,344,322; June 22; v. 275; p. 713.
Car, Convertible railway-. R. E. Walker. No. 1,344,323; June 22; v. 275; p. 713.
Car, Convertible stock and freight. J. Edman. No. 1,337,348; Apr. 20; v. 273; p. 446.
Car, Convertible stock and freight. E. Wyatt. No. 1,338,805; May 4; v. 274; p. 29.

Digitized by Google

Car-coupling. O. C. Billman. No. 1,348,776; Aug. 3; v. 277; p. 124.
Car-coupling. H. C. Buhoup. No. 1,358,930; Nov. 16; v. 280; p. 445.
Car-coupling. A. W. Clausen. No. 1,360,268; Nov. 30; v. 280; p. 820.
Car-coupling. J. L. Hamilton. No. 1,335,683; Mar. 30; v. 272; p. 880.
Car-coupling. G. W. Gill. No. 1,340,538; May 18; v. 274; p. 488.
Car-coupling. F. Kalata. No. 1,352,516; Sept. 14; v. 278; p. 190.
Car-coupling. W. Kelso. No. 1,332,500; Mar. 2; v. 272; p. 63.
Car-coupling. W. Kelso. No. 1,338,306; Apr. 27; v. 273; p. 697.
Car-coupling. W. Kelso. No. 1,339,030; May 4; v. 274; p. 70.
Car-coupling. N. P. Kemmer. No. 1,346,603; July 13; v. 276; p. 313.
Car-coupling. L. L. Lasota. No 1,360,233; Nov. 23; v. 280; p. 744.
Car-coupling. B. D. Lockwood and G. A. Suckfield. No. 1,348,501; Aug. 3; v. 277; p. 72.
Car-coupling. W. McConway, Jr. No. 1,332,507; Mar. 2; v. 272; p. 64.
Car-coupling. W. J. Metzger. No. 1,363,479; Dec. 28; v. 281; p. 631.
Car-coupling. H. E. Van Dorn. No. 1,344,780; June 29; v. 275; p. 868.
Car-coupling. E. Vinograd and Md. Groten. No. 1,339,489; May 11; v. 274; p. 231.
Car-coupling. J. W. Weary. No. 1,335,868; Apr. 6; v. 273; p. 31.
Car coupling, Automatic mine-. J. T. Blackledge. No. 1,339,016; May 4; v. 274; p. 67.
Car-coupling mechanism. S. Doubet. No. 1,355,822; Oct. 19; v. 279; p. 363.
Car-coupling, Transition. W. Kelso. No. 1,333,317; Mar. 9; v. 272; p. 268.
Car-couplings, Uncoupling device for. E. Jones. No. 1,347,380; July 20; v. 276; p. 526.
Car-couplings, Wear-plate for. I. H. Milliken. No. 1,344,183; June 22; v. 275; p. 685.
Car-couplings, Wear-plate for. I. H. Milliken. No. 1,344,184; June 22; v. 275; p. 685.
Car-couplings, Wear-plate for. I. H. Milliken. No. 1,344,185; June 22; v. 275; p. 685.
Car cover, Coal-. W. A. Royster. No. 1,357,119; Oct. 26; v. 279; p. 664.
Car cover, Railway-. W. J. Hosceit. No. 1,363,195; Dec. 21; v. 281; p. 536.
Car-derailer. S. A. P. Clarke. No. 1,358,290; Nov. 9; v. 280; p. 271.
Car, Derrick-. S. E. Barlow. No. 1,351,226; Aug. 31; v. 277; p. 286.
Car-door. W. H. Brodhage. No. 1,356,257; Oct. 19; v. 279; p. 449.
Car-door. J. M. Carlson. No. 1,350,919; Aug. 24; v. 277; p. 713.
Car-door. J. H. Crumb. No. 1,363,177; Dec. 21; v. 281; p. 532.
Car-door. R. A. Edgar. No. 1,345,755; July 6; v. 276; p. 84.
Car-door. W. H. McGann. No. 1,343,925; June 22; v. 275; p. 636.
Car-door. J. L. Mackey. No. 1,347,283; July 20; v. 276; p. 507.
Car-door. R. G. Mauritzen. No. 1,355,495; Oct. 12; v. 279; p. 259.
Car-door. C. C. Murphy. No. 1,360,777; Nov. 30; v. 280; p. 919.
Car-door and brake control device. T. H. Thomas. No. 1,346,859; July 20; v. 276; p. 423.
Car door, Automatic railway-. W. N. McClellan. No. 1,333,480; Mar. 9; v. 272; p. 289.
Car-door construction, Railway-. C. C. Murphy. No. 1,348,237; Aug. 3; v. 277; p. 22.
Car-door fastener. W. Kane. No. 1,361,868; Dec. 14; v. 281; p. 224.
Car door, Grain-. J. M. Etiman. No. 1,359,344; Nov. 16; v. 280; p. 524.
Car door, Grain-. G. A. F. Johnson. No. 1,358,373; Nov. 9; v. 280; p. 288.
Car door, Grain-. M. McLellan. No. 1,357,106; Oct. 26; v. 279; p. 662.
Car door, Grain-. C. M. Stafford. No. 1,332,311; Mar. 2; v. 272; p. 26.
Car door, Grain-. A. Switzer. No. 1,341,397; May 25; v. 274; p. 723.
Car-door hanger. C. F. Royster. No. 1,361,547; Dec. 7; v. 281; p. 115.
Car-door hanger. P. Schneider. No. 1,344,454; June 22; v. 275; p. 739.
Car-door latch, Mine-. C. E. Kelley and G. D. Speicher. No. 1,353,760; Sept. 21; v. 278; p. 496.
Car-door lock. J. Edman. No. 1,344,444; June 22; v. 275; p. 737.
Car-door lock. C. F. Jordan. No. 1,361,159; Dec. 7; v. 281; p. 35.
Car-door lock. P. Schneider. No. 1,342,465; June 8; v. 275; p. 219.
Car-door lock and release. B. M. Pearson. No. 1,337,261; Apr. 20; v. 273; p. 429.
Car-door lock, Railway-. H. Urban. No. 1,331,131; Feb. 17; v. 271; p. 435.
Car-door-operating machine. A. Campbell. No. 1,342,093; June 1; v. 275; p. 94.
Car-door-operating mechanism. A. Hupp. No. 1,363,980; Dec. 28; v. 281; p. 727.
Car door, Railway-. L. H. Rice. No. 1,355,693; Oct. 12; v. 279; p. 297.
Car door, Refrigerator-. J. F. O'Connor. No. 1,345,392; July 6; v. 276; p. 13.
Car-door signal. E. Sanders. No. 1,329,680; Feb. 3; v. 271; p. 62.
Car door, Steel grain-. G. and P. Townill. No. 1,328,214; Jan. 13; v. 270; p. 311.
Car-door ventilator. G. F. Zaun. No. 1,353,301; Sept. 21; v. 278; p. 405.
Car doors, Device to seal freight-. N. W. Christensen. No. 1,336,888; Apr. 13; v. 273; p. 284.
Car-doors, Locking mechanism for. J. F. Raley and J. D. Mitchell. No. 1,335,192; Mar. 30; v. 272; p. 788.
Car-doors, Sealed lock for. M. P. Jenkins. No. 1,349,280; Aug. 10; v. 277; p. 276.
Car doors, Spring latch or lock for motor-. F. H. Gordon. No. 1,333,974; Mar. 16; v. 272; p. 452.
Car-draft-arm, Railway-. C. J. Nash. No. 1,340,285; May 18; v. 274; p. 439.
Car, Drag-. R. Hamilton and E. J. Reimel. No. 1,345,439; July 6; v. 276; p. 22.
Car, Dump-. W. L. Burner. No. 1,330,977; Feb. 17; v. 271; p. 407.
Car, Dump-. W. L. Burner, J. H. Cotton, and A. D. Booth. No. 1,330,978; Feb. 17; v. 271; p. 407.
Car, Dump-. A. M. Gow. No. 1,338,010; Apr. 27; v. 273; p. 641.
Car, Dump-. F. S. Ingoldsby. No. 1,344,403; June 22; v. 275; p. 729.
Car, Dump-. T. R. McKnight. No. 1,327,623; Jan. 13; v. 270; p. 200.
Car, Dump-. O. E. Moats and J. D. Benbow. No. 1,351,114; Aug. 31; v. 277; p. 813.
Car, Dump-. J. Ochsner. No. 1,361,608; Dec. 7; v. 281; p. 127.
Car, Dump-. W. B. Reynolds. No. 1,327,255; Jan. 6; v. 270; p. 70.
Car, Dump-. J. B. Rhodes. No. 1,357,251; Nov. 2; v. 280; p. 10.
Car, Dump-. J. B. Rhodes. No. 1,361,904; Dec. 14; v. 281; p. 231.
Car, Dump-. C. M. Wilson. No. 1,354,791; Oct. 5; v. 279; p. 69.
Car-dump-door operator. A. Magimorec. No. 1,338,387; Apr. 27; v. 273; p. 713.
Car-dumper. J. E. Roemheld. No. 1,360,583; Nov. 30; v. 280; p. 881.
Car end construction. J. Duncan. No. 1,350,442; Aug. 24; v. 277; p. 622.
Car end frame. K. M. Hamilton. No. 1,355,331; Oct. 12; v. 279; p. 228.
Car end, Metal. C. F. Giles. No. 1,351,566; Aug. 31; v. 277; p. 904.
Car-end reinforcement. J. M. Coleman. No. 1,348,482; Aug. 3; v. 277; p. 69.
Car-end sheet. W. N. Oehm. No. 1,328,684; Jan. 20; v. 270; p. 486.
Car end, Sheet-steed. V. E. Sisson. No. 1,358,886; Nov. 16; v. 280; p. 436.
Car-fender. O. G. Jones. No. 1,343,729; June 15; v. 275; p. 531.
Car-fender. J. W. Sauerbrei. No. 1,353,854; Sept. 28; v. 278; p. 559.
Car-fender. H. Schurr. No. 1,344,213; June 22; v. 275; p. 691.
Car fender, Motor-. C. M. Runyan. No. 1,354,441; Sept. 28; v. 278; p. 677.
Car fender, Motor-. B. H. Sills. No. 1,346,850; July 20; v. 276; p. 421.
Car fender, Motor-. B. H. Sills. No. 1,362,195; Dec. 14; v. 281; p. 289.
Car-float. F. V. Kenna. No. 1,362,000; Dec. 14; v. 281; p. 253.
Car for trains, Entrance and exit. K. J. Terrell. No. 1,337,492; Apr. 20; v. 273; p. 473.
Car-frame. H. Arquint. No. 1,327,367; Jan. 6; v. 270; p. 90.
Car, Freight-. M. Christophersen. No. 1,333,464; Mar. 9; v. 272; p. 296.
Car, Freight-. H. T. Murphy. No. 1,347,174; July 20; v. 276; p. 484.
Car, Freight-. J. Oravec. No. 1,344,243; June 22; v. 275; p. 697.
Car, Freight-. A. G. Sandman. No. 1,349,106; Aug. 10; v. 277; p. 241.
Car, Freight-. V. Wroclawski. No. 1,327,894; Jan. 13; v. 270; p. 251.
Car gate, Street-. T. T. Kerley. No. 1,356,632; Oct. 26; v. 279; p. 568.
Car gear-shifting levers, Locks for motor-. G. Green. No. 1,348,868; Aug. 10; v. 277; p. 194.
Car, General-service. A. E. Ostrander. No. 1,354,915; Oct. 5; v. 279; p. 93.

Digitized by Google

Car, Grain-. A. Campbell. No. 1,342,094; June 1; v. 275; p. 94.
Car-hoist. A. H. McDougall. No. 1,346,324; July 13; v. 276; p. 259.
Car hoods, Fastener for motor-. F. C. Dulac, J. C. Vagnot, and A. Bessiron. No. 1,334,845; Mar. 23; v. 272; p. 663.
Car-hopper, Sanitary. N. Krohn. No. 1,343,730; June 15; v. 275; p. 532.
Car, Hot-metal. C. P. Astrom. No. 1,341,291; May 25; v. 274; p. 702.
Car, Hot-metal. R. H. Stevens. No. 1,332,772; Mar. 2; v. 272; p. 114.
Car, Hot-metal. R. H. Stevens. No. 1,332,773; Mar. 2; v. 272; p. 114.
Car, Hot-metal ladle-. C. P. Astrom. No. 1,347,984; July 27; v. 276; p. 702.
Car, Interchangeable-unit. H. W. Kirchner. No. 1,349,209; Aug. 10; v. 277; p. 261.
Car, Interchangeable-unit. H. W. Kirchner. No. 1,360,412; Nov. 30; v. 280; p. 847.
Car-journal-box lids, Spring closing and holding device for. W. F. Richards. No. 1,335,297; Mar. 30; v. 272; p. 808.
Car-journal lubricator. T. J. Holmes. No. 1,327,429; Jan. 6; v. 270; p. 102.
Car, Juvenile. A. S. Jones. No. 1,358,746; Nov. 16; v. 280; p. 408.
Car-lighting dynamos, Device for preventing excessive wear on. H. D. Rohman. No. 1,338,041; Apr. 27; v. 273; p. 647.
Car-lighting system. C. J. Axtel. No. 1,330,571; Feb. 10; v. 271; p. 260.
Car-lighting system. W. L. Bliss. No. 1,351,828; Sept. 7; v. 278; p. 22.
Car-lighting system. H. D. Rohman. No. 1,351,788; Sept. 7; v. 278; p. 14.
Car-load brace. B. S. Gallup. No. 1,358,724; Nov. 16; v. 280; p. 403.
Car loader, Box-. H. D. Pratt. No. 1,346,678; July 13; v. 276; p. 328.
Car loader, Box-. H. D. Pratt. No. 1,346,680; July 13; v. 276; p. 328.
Car-loading apparatus. P. R. Gray. No. 1,334,751; Mar. 23; v. 272; p. 645.
Car-loading device. W. C. Stevenson. No. 1,340,574; May 18; v. 274; p. 494.
Car-lock for rotary dumps, Universal automatic. A. J. Sayers. No. 1,333,345; Mar. 9; v. 272; p. 273.
Car lock, Motor-. D. R. Moll. No. 1,335,593; Mar. 30; v. 272; p. 863.
Car-locking device, Motor-. C. L. Randolph. No. 1,341,281; May 25; v. 274; p. 700.
Car, Metal-transfer. E. J. Reilly. No. 1,348,319; Aug. 3; v. 277; p. 38.
Car, Mine-. K. Sollie. No. 1,338,046; Apr. 27; v. 273; p. 648.
Car, Mine-. O. J. Zook and J. C. Marshall. No. 1,358,678; Nov. 9; v. 280; p. 349.
Car, Motor-. L. S. Habsburg-Lothringen. No. 1,355,853; Oct. 19; v. 279; p. 369.
Car-mover. W. A. Bock. No. 1,354,277; Sept. 28; v. 278; p. 645.
Car-mover. G. L. Bonham. No. 1,343,430; June 15; v. 275; p. 472.
Car-mover. E. E. Chapman. No. 1,340,523; May 18; v. 274; p. 484.
Car-mover. F. F. Sterner. No. 1,328,770; Jan. 20; v. 270; p. 452.
Car, Multiple-hoist push-. S. E. Barlow. No. 1,351,225; Aug. 31; v. 277; p. 836.
Car of small type, Motor-. S. Tamura and M. Watanabe. No. 1,328,909; Jan. 27; v. 270; p. 508.
Car or sleigh, Logging. A. Gendreau. No. 1,343,772; June 15; v. 275; p. 540.
Car, Ore-. J. F. Streib. No. 1,358,261; Nov. 9; v. 280; p. 265.
Car, Pipe-rack drier-. J. P. Martin. No. 1,339,119; May 4; v. 274; p. 88.
Car, Railroad-way construction and maintenance. R. E. Bressler. No. 1,347,677; July 27; v. 276; p. 641.
Car, Railway-. F. M. Brinckerhoff. No. 1,355,209; Oct. 12; v. 279; p. 204.
Car, Railway-. W. F. Cremean. No. 1,336,134; Apr. 6; v. 273; p. 81.
Car, Railway-. G. G. Gilpin. No. 1,348,991; Aug. 10; v. 277; p. 218.
Car, Railway-. W. B. Hall. No. 1,327,095; Jan. 6; v. 270; p. 41.
Car, Railway-. L. Huwyler. No. 1,346,891; July 20; v. 276; p. 429.
Car, Railway-. R. W. Joy. No. 1,336,436; Apr. 13; v. 273; p. 198.
Car, Railway-. S. Otis. No. 1,348,515; Aug. 3; v. 277; p. 74.
Car, Railway-. S. D. Rogers. No. 1,350,567; Aug. 24; v. 277; p. 647.
Car, Railway-. T. N. Russell. No. 1,336,864; Apr. 13; v. 273; p. 280.
Car, Railway-. T. N. Russell. No. 1,359,278; Nov. 16; v. 280; p. 509.
Car, Railway-. V. E. Sisson. No. 1,347,878; July 27; v. 276; p. 682.
Car, Railway-. E. A. Steiner. No. 1,359,444; Nov. 16; v. 280; p. 543.
Car, Railway motor-. C. G. Mahana, E. D. Glidden, and M. P. Laurent. No. 1,346,227; July 13; v. 276; p. 238.
Car, Railway way construction and maintenance. R. E. Bressler. No. 1,328,489; Jan. 20; v. 270; p. 400.
Car, Refrigerator-. H. R. Ross. No. 1,352,532; Sept. 14; v. 278; p. 193.
Car, Refrigerator-. G. F. Swift, Jr. No. 1,363,374; Dec. 28; v. 281; p. 610.
Car-replacer. J. Jacobson. No. 1,346,962; July 20; v. 276; p. 443.
Car-replacer. J. Podien. No. 1,351,965; Sept. 7; v. 278; p. 50.
Car-replacer. E. W. K. Roe. No. 1,329,854; Feb. 3; v. 271; p. 96.
Car-replacer. A. Wojtkiewicz. No. 1,357,371; Nov. 2; v. 280; p. 33.
Car-replacing device. W. Matney. No. 1,347,349; July 20; v. 276; p. 520.
Car-roof. C. D. Bonsall. No. 1,330,975; Feb. 17; v. 271; p. 406.
Car-roof. R. W. Burnett. No. 1,351,411; Aug. 31; v. 277; p. 873.
Car-roof. R. W. Burnett. No. 1,360,092; Nov. 23; v. 280; p. 717.
Car-roof. B. F. Lively. No. 1,351,256; Aug. 31; v. 277; p. 842.
Car-roof. W. P. Murphy. No. 1,343,785; June 15; v. 275; p. 543.
Car-roof. W. P. Murphy. No. 1,343,786; June 15; v. 275; p. 543.
Car-roof. W. P. Murphy. No. 1,360,562; Nov. 30; v. 280; p. 877.
Car-roof. T. N. Russell. No. 1,340,685; May 18; v. 274; p. 516.
Car-roof. T. N. Russell. No. 1,342,510; June 8; v. 275; p. 228.
Car-roof. T. N. Russell. No. 1,344,824; June 29; v. 275; p. 877.
Car-roof. T. N. Russell. No. 1,347,974; July 27; v. 276; p. 700.
Car-roof. W. H. Slatten. No. 1,332,638; Mar. 2; v. 272; p. 89.
Car-roof. W. D. Thompson. No. 1,346,281; July 13; v. 276; p. 250.
Car-roof. F. M. Whyte. No. 1,354,637; Oct. 5; v. 279; p. 38.
Car-roof construction. N. S. Reeder. No. 1,328,200; Jan. 13; v. 270; p. 309.
Car-roof construction, Railway-. S. Otis. No. 1,340,667; May 18; v. 274; p. 512.
Car-roof, Metal. J. V. Mohler. No. 1,356,649; Oct. 26; v. 279; p. 572.
Car safety device. C. and L. Lerner. No. 1,359,896; Nov. 16; v. 280; p. 534.
Car-seal. W. K. Edgar. No. 1,344,491; June 22; v. 275; p. 747.
Car-seal. W. L. Exley and L. Pemberton. No. 1,356,976; Oct. 26; v. 279; p. 636.
Car-seal. F. M. Volk. No. 1,354,634; Oct. 5; v. 279; p. 38.
Car-seat. S. M. Curwen. No. 1,361,690; Dec. 7; v. 281; p. 143.
Car-seat. B. Schechter. No. 1,355,005; Oct. 5; v. 279; p. 110.
Car-seat. B. Schechter. No. 1,363,057; Dec. 21; v. 281; p. 509.
Car-seat. R. F. Stubblebine. No. 1,343,594; June 15; v. 275; p. 505.
Car-seat. C. H. Turner. No. 1,355,192; Oct. 12; v. 279; p. 200.
Car seat, Motor-. J. H. Barnett. No. 1,353,708; Sept. 21; v. 278; p. 487.
Car seat or chair, Passenger railway-. L. A. Montgomery. No. 1,329,988; Feb. 3; v. 271; p. 120.
Car-seat, Pedestal. F. Smolar. No. 1,346,386; July 13; v. 276; p. 270.
Car seat, Railway-. W. S. Wright. No. 1,335,950; Apr. 6; v. 273; p. 46.
Car-seat, Reversible. R. B. Marsh. No. 1,360,966; Nov. 30; v. 280; p. 955.
Car signal, Motor-. N. T. Brown. No. 1,347,246; July 20; v. 276; p. 499.
Car, Sleeping-. O. M. Donaldson. No. 1,361,233; Dec. 7; v. 281; p. 50.
Car, Sleeping-. H. D. Wilson. No. 1,342,702; June 8; v. 275; p. 265.
Car-stake. J. W. Huff. No. 1,358,154; Nov. 9; v. 280; p. 244.
Car-stake. M. Markkula. No. 1,346,836; July 20; v. 276; p. 418.
Car-step. G. A. Gilbert. No. 1,341,310; May 25; v. 274; p. 706.
Car-step. L. Warga. No. 1,334,980; Mar. 30; v. 272; p. 748.
Car-step, Auxiliary. S. P. Fairchild. No. 1,345,668; July 6; v. 276; p. 66.
Car-step, Auxiliary. P. Swanson. No. 1,353,364; Sept. 21; v. 278; p. 417.
Car-step, Folding. E. L. Cross. No. 1,363,396; Dec. 28; v. 281; p. 614.

Digitized by Google

Car-step, Folding. W. R. Wallingsford. No. 1,350,903; Aug. 24; v. 277; p. 710.
Car, Stock-. O. A. Ackerman. No. 1,349,747; Aug. 17; v. 277; p. 441.
Car, Street-. J. Bobian. No. 1,333,959; Mar. 16; v. 272; p. 449.
Car, Street-. J. H. Flynn, Sr. No. 1,332,980; Mar. 9; v. 272; p. 206.
Car, Tank-. G. H. Gibson. No. 1,348,404; Aug. 3; v. 277; p. 54.
Car, Tank-. E. D. Levy and H. W. Jacobs. No. 1,333,262; Mar. 9; v. 272; p. 257.
Car, Tank-. A. E. Ostrander. No. 1,336,439; Apr. 13; v. 273; p. 198.
Car, Tank-. O. J. Parks. No. 1,338,392; Apr. 27; v. 273; p. 713.
Car, Tilting side-dump. C. H. Clark and H. L. Beach. No. 1,333,293; Mar. 9; v. 272; p. 263.
Car, Tram-. W. F. Gibson. No. 1,355,466; Oct. 12; v. 279; p. 253.
Car transfer, Street-. J. S. Szarat. No. 1,355,626; Oct. 12; v. 279; p. 284.
Car-truck shock-arrester or shock-preventing apparatus. H. Naito and R. Murata. No. 1,334,671; Mar. 23; v. 272; p. 629.
Car truck, Street-. T. A. Brewster. No. 1,345,528; July 6; v. 276; p. 40.
Car, Tunnel-kiln. P. A. Meehan. No. 1,328,749; Jan. 20; v. 270; p. 448.
Car-uncoupling lever. C. H. Emerson. No. 1,356,521; Oct. 26; v. 279; p. 547.
Car-underframe. D. S. Barrows. No. 1,358,500; Nov. 9; v. 280; p. 314.
Car-underframe. D. S. Barrows. No. 1,358,501; Nov. 9; v. 280; p. 314.
Car-underframe. W. N. Oehm. No. 1,328,683; Jan. 20; v. 270; p. 436.
Car-underframe. R. C. Taft. No. 1,340,576; May 18; v. 274; p. 495.
Car-underframe of iron. J. L. Hellen. No. 1,356,280; Oct. 19; v. 279; p. 453.
Car underframe, Railway-. W. P. Murphy. No. 1,347,963; July 27; v. 276; p. 698.
Car underframe, Railway-. W. P. Murphy. No. 1,347,964; July 27; v. 276; p. 698.
Car-underframing. W. M. Ryan. No. 1,345,258; June 29; v. 275; p. 959.
Car-unloader. J. G. Brown. No. 1,345,121; June 29; v. 275; p. 932.
Car-unloader. A. W. Crothamel. No. 1,337,047; Apr. 13; v. 273; p. 315.
Car-unloader. H. D. Pratt. No. 1,346,681; July 13; v. 276; p. 329.
Car unloader, Box-. R. W. Kaltenbach. No. 1,352,608; Sept. 14; v. 278; p. 208.
Car-ventilator. J. C. Goodman. No. 1,358,198; Nov. 9; v. 280; p. 253.
Car-ventilator. W. E. Wine. No. 1,359,555; Nov. 23; v. 280; p. 611.
Car-ventilator. W. E. Wine. No. 1,359,556; Nov. 23; v. 280; p. 611.
Car-ventilator. W. E. Wine. No. 1,359,557; Nov. 23; v. 280; p. 611.
Car-ventilator. W. E. Wine. No. 1,359,558; Nov. 23; v. 280; p. 611.
Car-vestibule gates, Lock for railway-. J. H. Taillefer. No. 1,358,036; Nov. 9; v. 280; p. 221.
Car-wheel. F. Bates. No. 1,356,957; Oct. 26; v. 279; p. 632.
Car-wheel. L. G. Binkley. No. 1,329,499; Feb. 3; v. 271; p. 30.
Car-wheel. A. L. Carroll. No. 1,336,128; Apr. 6; v. 273; p. 80.
Car-wheel. R. Romadka. No. 1,350,738; Aug. 24; v. 277; p. 679.
Car-wheel. F. A. Sweet. No. 1,344,460; June 22; v. 275; p. 740.
Car-wheel assembly. A. Y. Davis. No. 1,357,226; Nov. 2; v. 280; p. 5.
Car-wheel lathe. M. F. Boughen. No. 1,339,017; May 4; v. 274; p. 68.
Car wheel, Mine-. L. G. Binkley. No. 1,329,496; Feb. 3; v. 271; p. 29.
Car wheel, Mine-. L. G. Binkley. No. 1,329,497; Feb. 3; v. 271; p. 29.
Car wheel, Mine-. L. G. Binkley. No. 1,329,498; Feb. 3; v. 271; p. 29.
Car wheel, Mine. P. Taylor. No. 1,360,816; Nov. 30; v. 280; p. 927.
Car-wheel mounting. L. G. Binkley. No. 1,329,495; Feb. 3; v. 271; p. 29.
Car-wheel skid-shoe. B. J. Buell. No. 1,343,614; June 15; v. 275; p. 509.
Car-wheels for all kinds of vehicles, Journal for. H. Frappart. No. 1,348,400; Aug. 3; v. 277; p. 53.
Car wheels, Lubricating device for mine-. J. F. Fox. No. 1,357,972; Nov. 9; v. 280; p. 208.
Car-wheels, Process and apparatus for cooling. F. K. Vial. No. 1,328,278; Jan. 27; v. 270; p. 577.
Car-wheels, Roller-bearing for. F. M. Cowgill. No. 1,334,018; Mar. 16; v. 272; p. 461.
Car-wheels, Roller-bearing for. F. M. Cowgill. No. 1,334,019; Mar. 16; v. 272; p. 461.
Car windlassing-tackle, Motor-. N. W. Hartman. No. 1,333,755; Mar. 16; v. 272; p. 412.
Car windows, Sash-lock for railway-. E. F. Chaffee. No. 1,349,046; Aug. 10; v. 277; p. 229.
Car windows, Screen for double railway-. R. T. Axe. No. 1,359,146; Nov. 16; v. 280; p. 484.
Cars, Adjustable bulkhead for freight-. S. B. Short. No. 1,327,634; Jan. 13; v. 270; p. 202.
Cars, Adjustable deck-support for. J. B. Shelton. No. 1,349,735; Aug. 17; v. 277; p. 439.
Cars, Air-circulating apparatus for. C. A. Moore. No. 1,344,057; June 22; v. 275; p. 661.
Cars, Air-circulating system for. D. Clark. No. 1,328,820; Jan. 27; v. 270; p. 490.
Cars, Air-filtering system for cooling the motors of electrically-driven railway-. R. E. Miller and G. H. Liebegott. No. 1,327,287; Jan. 6; v. 270; p. 76.
Cars and other vehicles, Combined dovetail and buffer or cushioning device for doors of motor-. A. S. Cheston. No. 1,337,042; Apr. 13; v. 273; p. 314.
Cars, Apparatus for change speed of motor-. S. Tamura and M. Watanabe. No. 1,348,251; Aug. 3; v. 277; p. 24.
Cars, Automatic checking and stopping apparatus for. F. L. Parr. No. 1,337,948; Apr. 20; v. 273; p. 561.
Cars, Automatic clutch-differential for motor-. R. W. A. Warren. No. 1,348,673; Aug. 3; v. 277; p. 105.
Cars, Automatic coupling for fluid-conducting pipes of railway-. S. A. Rousseau. No. 1,339,042; May 4; v. 274; p. 73.
Cars, Automatic transfer for dump-. W. J. Black. (Reissue.) No. 14,901; June 29; v. 275; p. 975.
Cars, Auxiliary oiling system for Ford. A. Motzer. No. 1,328,388; Jan. 20; v. 270; p. 381.
Cars, Body-bolster side bearing for railway-. J. F. O'Connor. No. 1,361,483; Dec. 7; v. 281; p. 102.
Cars, Brake mechanism for mining-. F. Krashowetz. No. 1,333,320; Mar. 9; v. 272; p. 269.
Cars, Brake mechanism for motor-. W. Dieter. No. 1,347,736; July 27; v. 276; p. 653.
Cars, Bumping-post for freight-. E. Keebler. No. 1,348,223; Aug. 3; v. 277; p. 18.
Cars, Bunk for logging-. J. M. Meany. No. 1,360,002; Nov. 23; v. 280; p. 699.
Cars, Check-holder for railway-. P. Smith. No. 1,331,682; Feb. 24; v. 271; p. 558.
Cars, Combined door-holder and hand-rail for railway-. C. E. Sims. No. 1,357,529; Nov. 2; v. 280; p. 62.
Cars, Combined propelling-motor and door-operating mechanism for. G. W. Meyers. No. 1,336,477; Apr. 13; v. 273; p. 205.
Cars, Disk wheel for motor-. J. M. E. Franc. No. 1,345,759; July 6; v. 276; p. 85.
Cars, Door-operating device for self-dumping mine-. A. Cross. No. 1,361,230; Dec. 7; v. 281; p. 49.
Cars, Doorway construction for. A. N. Warfield. No. 1,353,102; Sept. 14; v. 278; p. 306.
Cars, Draft appliance for railway-. H. C. Buhoup. No. 1,361,440; Dec. 7; v. 281; p. 93.
Cars, Draft-gear for railway-. W. H. Miller. No. 1,357,888; Nov. 2; v. 280; p. 131.
Cars, Draft-rigging for railway-. W. H. Miner. No. 1,361,478; Dec. 7; v. 281; p. 101.
Cars, Draft-rigging for railway-. J. F. O'Connor. No. 1,341,149; May 25; v. 274; p. 675.
Cars, Draft-rigging for railway-. W. J. Regan. No. 1,339,714; May 11; v. 274; p. 275.
Cars, Draft-rigging for railway-. H. I. Wrigley. No. 1,327,074; Jan. 6; v. 270; p. 87.
Cars, Driving mechanism for motor-. A. F. Baker. No. 1,329,319; Jan. 27; v. 270; p. 584.
Cars, Drop-door for railway-. J. O. Neikirk. No. 1,344,208; June 22; v. 275; p. 690.
Cars, Electrical apparatus for controlling and classifying. R. A. Shannon. No. 1,360,150; Nov. 23; v. 280; p. 728.
Cars, End construction for railway-. V. E. Sisson. No. 1,342,604; June 8; v. 275; p. 246.
Cars, Fan-belt guide for Ford and other. P. C. Morris. No. 1,339,408; May 11; v. 274; p. 216.
Cars, Flange-lubricating device for wheels of railway-. A. Roth. No. 1,330,551; Feb. 10; v. 271; p. 257.
Cars, Folding floor for railway-. R. F. Rex. No. 1,351,125; Aug. 31; v. 277; p. 815.
Cars, Friction draft-gear for railway-. R. D. Gallagher, Jr. No. 1,353,529; Sept. 21; v. 278; p. 450.
Cars, Grain-door for. E. Posson. No. 1,352,692; Sept. 14; v. 278; p. 225.
Cars, Grain-door for box-. C. J. Phillips. No. 1,330,031; Feb. 3; v. 271; p. 128.
Cars, Grain-door for railway-. T. W. Collinsworth. No. 1,359,033; Nov. 16; v. 280; p. 464.
Cars, Hand-brake for railway-. P. Brown. No. 1,340,322; May 18; v. 274; p. 446.
Cars, Hand-brake for railway-. P. Brown. No. 1,340,323; May 18; v. 274; p. 446.
Cars, Hand-brake for railway. J. F. O'Connor. No. 1,356,084; Oct. 19; v. 279; p. 414.
Cars, Hand-brake for railway-. J. F. O'Connor. No. 1,361,484; Dec. 7; v. 281; p. 102.

Digitized by Google

Alphabetical list of inventions—Continued.

Cars, Insulation for refrigerator-. J. F. O'Connor. No. 1,345,391; July 6; v. 276; p. 13.
Cars, Lighting equipment and starting arrangement for gasolene-engines on gasolene motor-. W. L. Bliss. No. 1,359,022; Nov. 16; v. 280; p. 462.
Cars, Lumber-loading roll for. H. J. Snyder. No. 1,340,507; May 18; v. 274; p. 482.
Cars, Means for discharging grain and similar materials from. A. Campbell. No. 1,342,092; June 1; v. 275; p. 94.
Cars, Means for discharging materials from railway-. A. Campbell. No. 1,342,088; June 1; v. 275; p. 93.
Cars, Means for discharging materials from railway-. A. Campbell. No. 1,342,091; June 1; v. 275; p. 94.
Cars, Means for effecting temporary repairs to broken axles of motor-. E. J. Dove. No. 1,358,532; Nov. 9; v. 280; p. 320.
Cars, Metal door for railway-. W. E. Williams. No. 1,354,929; Oct. 5; v. 279; p. 96.
Cars, Metal roof for. F. M. Whyte. No. 1,336,993; Apr. 13; v. 273; p. 304.
Cars, Metallic grain door for. J. L. Mackey. No. 1,356,456; Oct. 19; v. 279; p. 487.
Cars, Outlet-valve mechanism for tank-. G. F. Wood-Smith. No. 1,339,083; May 4; v. 274; p. 81.
Cars, Pneumatic-tire drive for dynamos of railway-. E. Posson. No. 1,350,467; Aug. 24; v. 277; p. 627.
Cars, Recording-scale for railway-. S. D. Wright. No. 1,329,567; Feb. 3; v. 271; p. 42.
Cars, Rein-operative control means for motor-. H. B. Johnson. (Reissue.) No. 14,986; Nov. 16; v. 280; p. 551.
Cars, Reinforced end structure for railway-. V. E. Sisson. No. 1,337,281; Apr. 20; v. 273; p. 483.
Cars, Rigid hand-grip for. M. A. Kirschmann. No. 1,350,657; Aug. 24; v. 277; p. 663.
Cars, Runner for side. E. Enberg. No. 1,345,321; June 29; v. 275; p. 971.
Cars, Safety attachment for railway-. J. D. King. No. 1,344,231; June 22; v. 275; p. 694.
Cars, Safety attachment for railway-. J. D. King. No. 1,344,232; June 22; v. 275; p. 694.
Cars, Self-alining bearing-box and axle for mine-. T. A. Parker. No. 1,329,847; Feb. 3; v. 271; p. 94.
Cars, Sheet-metal end structure for railway-. T. N. Russell. No. 1,332,857; Mar. 2; v. 272; p. 130.
Cars, Sheet-metal end structure for railway-. V. E. Sisson. No. 1,349,442; Aug. 10; v. 277; p. 308.
Cars, Stake-pocket for logging-. A. D. Adams. No. 1,355,442; Oct. 12; v. 279; p. 249.
Cars, Steam-coil support for tank-. J. D. Seiler. No. 1,354,920; Oct. 5; v. 279; p. 95.
Cars, Side bearing for. V. J. Burry. No. 1,344,858; June 29; v. 275; p. 883.
Cars, Side bearing for. V. J. Burry. No. 1,344,859; June 29; v. 275; p. 883.
Cars, Side bearing for railway-. J. F. O'Connor. No. 1,338,747; May 4; v. 274; p. 18.
Cars, Side bearing for railway-. W. A. Geiger. No. 1,357,770; Nov. 2; v. 280; p. 108.
Cars, Side bearing for railway-. W. H. Miner. No. 1,357,793; Nov. 2; v. 280; p. 113.
Cars, Side bearing for railway-. J. F. O'Connor. No. 1,357,804; Nov. 2; v. 280; p. 115.
Cars, Side bearing for railway-. J. F. O'Connor. No. 1,357,805; Nov. 2; v. 280; p. 115.
Cars, Side bearing for railway-. J. F. O'Connor. No. 1,360,782; Nov. 30; v. 280; p. 920.
Cars, Side bearing for railway-. J. F. O'Connor. No. 1,360,783; Nov. 30; v. 280; p. 920.
Cars, Side-door structure for. E. Layeux. No. 1,332,989; Mar. 9; v. 272; p. 207.
Cars, Signal device for. B. Watkins. No. 1,334,424; Mar. 23; v. 272; p. 584.
Cars, Station-indicator for electric street-. D. V. Adams. No. 1,357,934; Nov. 9; v. 280; p. 201.
Cars, Street-indicator for. L. C. Kasbaum. No. 1,347,545; July 27; v. 276; p. 615.
Cars, Switch-operating device for street-railway. C. W. Collens. No. 1,344,487; June 22; v. 275; p. 746.
Cars, System for numbering motor-. J. L. Catlett. No. 1,346,808; July 20; v. 276; p. 413.
Cars, Tandem draft-rigging for railway-. S. B. Haseltine. No. 1,357,776; Nov. 2; v. 280; p. 110.
Cars, Tank-anchor for tank-. W. K. Auchincloss. No. 1,336,410; Apr. 18; v. 273; p. 198.
Cars, Temporary track for mine-. L. M. Foreman. No. 1,342,281; June 1; v. 275; p. 131.
Cars, Thawing material in. A. M. Alvord. No. 1,357,305; Nov. 2; v. 280; p. 20.
Cars, Theft-preventing device for motor-. F. G. Dutton. No. 1,335,160; Mar. 30; v. 272; p. 783.
Cars, Tool for replacing transmission-covers on Ford. E. T. Lueders. No. 1,358,860; Nov. 16; v. 280; p. 431.
Cars, Trap and drain for railway-. E. Posson. No. 1,329,015; Jan. 27; v. 270; p. 528.
Cars, Vehicle-anchoring means for railway-. O. O. Wilcox. No. 1,333,144; Mar. 9; v. 272; p. 236.
Cars, Water-level-signaling attachment for motor-. H. H. Knapp. No. 1,344,904; June 29; v. 275; p. 892.
Cars, Wheel-attaching device for mine-. F. H. Gibbs. No. 1,346,193; July 13; v. 276; p. 232.
Cars, Wind-screen for motorcycle side. C. A. Easting. No. 1,343,440; June 15; v. 275; p. 474.
Cars, Word-displaying signaling device for automobile-. C. A. Swank. No. 1,338,047; Apr. 27; v. 273; p. 648.
Cars, Wrecking, poling, wiring, lifting and truck carrying iron for railway-. U. S. Drayer. No. 1,341,787; June 1; v. 275; p. 35.
Cars, Yoke for railway-. H. L. Spence. No. 1,342,696; June 8; v. 275; p. 264.
Carbamids, Producing asymmetric. A. V. Blom. No. 1,351,888; Sept. 7; v. 278; p. 35.
Carbazole, Purification of. W. Kirby. No. 1,348,722; Aug. 3; v. 277; p. 114.
Carbid, Manufacture of silicon. O. Hutchins. No. 1,331,435; Feb. 17; v. 271; p. 491.
Carbid, Producing. J. H. Reid. No. 1,327,736; Jan. 13; v. 270; p. 222.
Carbohydrates, Procuring and securing products from. J. H. Reid. No. 1,327,737; Jan. 13; v. 270; p. 222.
Carbon and gaseous fuel. Process of and apparatus for producing. J. R. Rose. No. 1,352,085; Sept. 7; v. 278; p. 72.
Carbon and gaseous fuel, Producing. J. R. Rose. No. 1,352,086; Sept. 7; v. 278; p. 72.
Carbon-black, Apparatus for producing. F. E. Paterson. No. 1,344,060; June 22; v. 275; p. 662.
Carbon compounds, Hydrogenating. F. Bergius. No. 1,342,790; June 8; v. 275; p. 284.
Carbon-cutter. D. D. Getman. No. 1,357,632; Nov. 2; v. 280; p. 81.
Carbon disks, Means for grinding and slotting. H. Blount. No. 1,345,743; July 6; v. 276; p. 81.
Carbon gland. C. A. Parsons, S. S. Cook, and L. M. Douglas. No. 1,331,360; Feb. 17; v. 271; p. 477.
Carbon gland. C. A. Parsons, S. S. Cook, and L. M. Douglas. No. 1,331,361; Feb. 17; v. 271; p. 477.
Carbon gland. C. A. Parsons, S. S. Cook, and L. M. Douglas. No. 1,331,362; Feb. 17; v. 271; p. 477.
Carbon gland. C. A. Parsons, S. S. Cook, and L. M. Douglas. No. 1,334,393; Mar. 23; v. 272; p. 577.
Carbon-gland. C. A. Parsons, S. S. Cook, and L. M. Douglas. No. 1,338,955; May 4; v. 274; p. 56.
Carbon-holder. H. D. Regar. No. 1,362,140; Dec. 14; v. 281; p. 279.
Carbon-prevention device. J. B. Schumacher. No. 1,354,580; Oct. 5; v. 279; p. 26.
Carbon, Production of substantially pure. R. Williams. No. 1,352,162; Sept. 7; v. 278; p. 86.
Carbon-remover, Steam. F. Foster. No. 1,358,946; Nov. 16; v. 280; p. 448.
Carbon - removing apparatus. W. B. Chuck. No. 1,332,606; Mar. 2; v. 272; p. 83.
Carbon-removing means. W. F. Rittman and C. B. Dutton. No. 1,329,852; Feb. 3; v. 271; p. 95.
Carbon sheet. J. A. B. Smith. No. 1,361,553; Dec. 7; v. 281; p. 116.
Carbon-sheet holder. W. S. Freeman. No. 1,347,692; July 27; v. 276; p. 644.
Carbons, Making decolorizing. R. W. Mumford. No. 1,359,094; Nov. 16; v. 280; p. 475.
Carbons, Regeneration of decolorizing-. G. Biardone. No. 1,327,222; Jan. 6; v. 270; p. 65.
Carbonizing-furnace. J. H. L. De Bats. No. 1,333,796; Mar. 16; v. 272; p. 419.
Carbonaceous material, Apparatus for distilling. W. P. Perry. No. 1,341,517; May 25; v. 274; p. 746.
Carbonaceous materials, Apparatus for distilling. G. W. Wallace. No. 1,358,662; Nov. 9; v. 280; p. 346.
Carbonaceous materials, Carbonizing. G. W. Wallace. No. 1,358,663; Nov. 9; v. 280; p. 346.
Carbonaceous materials, Distilling. G. W. Wallace. No. 1,358,664; Nov. 9; v. 280; p. 347.
Carbonizing articles and apparatus for same. M. D. Wilbur, F. P. Cannon, and T. J. Murphy. No. 1,350,483; Aug. 24; v. 277; p. 630.
Carbonizing material, Making. N. B. Radabaugh. No. 1,338,841; May 4; v. 274; p. 35.
Carboy-case. W. G. Seabold. No. 1,343,340; June 15; v. 275; p. 455.
Carboy-holder. E. F. Miller. No. 1,357,646; Nov. 2; v. 280; p. 84.
Carboys or large glass containers, Machine and method for making. H. M. Brown. No. 1,334,648; Mar. 23; v. 272; p. 625.
Carboys or large glass containers, Machine for making. H. M. Brown. No. 1,334,647; Mar. 23; v. 272; p. 624.
Carburation device. L. A. Banta. No. 1,355,527; Oct. 12; v. 279; p. 266.
Carburation device. A. Sansoucy. No. 1,359,279; Nov. 16; v. 280; p. 510.
Carbureter. G. A. F. Ahlberg. No. 1,356,117. Oct. 19; v. 279; p. 421.
Carbureter. C. H. Anderson. No. 1,362,664; Dec. 21; v. 281; p. 433.
Carbureter. F. H. Ball. No. 1,358,498; Nov. 9; v. 280; p. 313.
Carbureter. F. O. Ball. (Reissue.) No. 14,790; Jan. 13; v. 270; p. 320.
Carbureter. J. B. S. Booth. No. 1,362,468; Dec. 14; v. 281; p. 342.
Carbureter. C. C. Bradbury. No. 1,350,001; Aug. 17; v. 277; p. 489.

Digitized by Google

Carbureter. G. E. Bradshaw. No. 1,339,095; May 4; v. 274; p. 83.
Carbureter. W. J. Brandon. No. 1,362,389; Dec. 14; v. 281; p. 327.
Carbureter. J. W. Carpenter. No. 1,332,319; Mar. 2; v. 272; p. 27.
Carbureter. C. H. Claudel. No. 1,327,703; Jan. 13; v. 270; p. 215.
Carbureter. D. L. F. Coombs. No. 1,336,070; Apr. 6; v. 273; p. 69.
Carbureter. A. Cox. No. 1,351,624; Aug. 31; v. 277; p. 915.
Carbureter. W. A. Edwards. No. 1,335,430; Mar. 30; v. 272; p. 832.
Carbureter. C. V. Elliott. No. 1,336,288; Apr. 6; v. 273; p. 110.
Carbureter. E. Feroldi. No. 1,347,150; July 20; v. 276; p. 480.
Carbureter. P. P. Gilles. No. 1,330,796; Feb. 17; v. 271; p. 371.
Carbureter. P. P. Gilles. No. 1,330,797; Feb. 17; v. 271; p. 371.
Carbureter. J. S. Goldberg and R. M. Anderson. No. 1,355,960; Oct. 19; v. 279; p. 389.
Carbureter. W. W. Grant. No. 1,327,233; Jan. 6; v. 270; p. 66.
Carbureter. C. R. Greuter. No. 1,350,799; Aug. 24; v. 277; p. 691.
Carbureter. W. S. Guthrie. No. 1,328,042; Jan. 13; v. 270; p. 279.
Carbureter. V. E. Haas. No. 1,342,107; June 1; v. 275; p. 97.
Carbureter. A. A. Hansen and E. M. Stukas. No. 1,362,302; Dec. 14; v. 281; p. 310.
Carbureter. H. I. Hawxhurst. No. 1,362,305; Dec. 14; v. 281; p. 311.
Carbureter. F. B. Hays. No. 1,346,201; July 13; v. 276; p. 233.
Carbureter. W. R. Heslewood. No. 1,327,205; Jan. 6; v. 270; p. 61.
Carbureter. C. W. Hess. No. 1,354,041; Sept. 28; v. 278; p. 596.
Carbureter. E. G. Hodges. No. 1,330,024; Feb. 3; v. 271; p. 127.
Carbureter. E. Huber. No. 1,344,696; June 29; v. 275; p. 851.
Carbureter. O. R. Hukle. No. 1,340,956; May 25; v. 274; p. 637.
Carbureter. R. E. L. Janney. No. 1,342,445; June 8; v. 275; p. 216.
Carbureter. J. T. Jennings. No. 1,349,835; Aug. 17; v. 277; p. 457.
Carbureter. R. Jensen. No. 1,333,982; Mar. 16; v. 272; p. 454.
Carbureter. R. Jensen. No. 1,343,455; June 15; v. 275; p. 477.
Carbureter. C. E. Johnson. No. 1,363,421; Dec. 28; v. 281; p. 619.
Carbureter. J. A. Kline. No. 1,340,720; May 18; v. 274; p. 522.
Carbureter. T. Linga. No. 1,345,546; July 6; v. 276; p. 43.
Carbureter. C. de Lukacsevics. No. 1,337,051; Apr. 13; v. 278; p. 316.
Carbureter. J. H. Lytle and J. J. McFarland. No. 1,339,408; May 11; v. 274; p. 215.
Carbureter. W. L. Marr. No. 1,361,529; Dec. 7; v. 281; p. 111.
Carbureter. G. Mezzatesta. No. 1,328,180; Jan. 13; v. 270; p. 305.
Carbureter. F. C. Mock. No. 1,339,214; May 4; v. 274; p. 105.
Carbureter. M. Morden and W. C. Hess. No. 1,354,327; Sept. 28; v. 278; p. 654.
Carbureter. E. C. Newcomb. No. 1,339,218; May 4; v. 274; p. 105.
Carbureter. E. C. Newcomb. No. 1,359,828; Nov. 23; v. 280; p. 664.
Carbureter. L. H. Oberreich. No. 1,328,844; Jan. 27; v. 270; p. 495.
Carbureter. F. A. Ost. No. 1,347,052; July 20; v. 276; p. 462.
Carbureter. F. N. Percival. No. 1,359,837; Nov. 23; v. 280; p. 666.
Carbureter. A. J. Pichl. No. 1,343,983; June 22; v. 275; p. 646.
Carbureter. G. A. Picotte. No. 1,333,776; Mar. 16; v. 272; p. 415.
Carbureter. P. Povlotzky. No. 1,338,960; May 4; v. 274; p. 57.
Carbureter. A. M. Prentiss. No. 1,329,308; Jan. 27; v. 270; p. 582.
Carbureter. A. M. Prentiss. No. 1,329,309; Jan. 27; v. 270; p. 582.
Carbureter. C. L. Rayfield. No. 1,335,389; Mar. 30; v. 272; p. 825.
Carbureter. C. L. Rayfield. No. 1,335,390; Mar. 30; v. 272; p. 825.
Carbureter. C. L. Rayfield. No. 1,352,628; Sept. 14; v. 278; p. 212.
Carbureter. C. L. Rayfield. No. 1,354,686; Oct. 5; v. 279; p. 48.
Carbureter. T. A. B. Richardson. No. 1,358,876; Nov. 16; v. 280; p. 434.
Carbureter. H. G. Robinson and L. K. Stinson. No. 1,352,316; Sept. 7; v. 278; p. 116.
Carbureter. E. A. Rockwell. No. 1,360,025; Nov. 23; v. 280; p. 704.
Carbureter. J. T. Roffy. No. 1,338,330; Apr. 27; v. 273; p. 702.
Carbureter. W. Rollins. No. 1,360,445; Nov. 30; v. 280; p. 854.
Carbureter. W. J. Ruff. No. 1,349,006; Aug. 10; v. 277; p. 221.
Carbureter. C. F. Schulz. No. 1,356,661; Oct. 26; v. 279; p. 574.
Carbureter. W. J. Seufert. No. 1,334,263; Mar. 16; v. 272; p. 506.
Carbureter. R. S. Smith. No. 1,340,123; May 11; v. 274; p. 352.
Carbureter. C. L. Stokes. No. 1,353,288; Sept. 21; v. 278; p. 402.
Carbureter. H. P. Thatcher and J. W. Hanley. No. 1,354,588; Oct. 5; v. 279; p. 28.
Carbureter. H. L. Thompson. No. 1,345,516; July 6; v. 276; p. 37.
Carbureter. J. D. and E. M. Tucker. No. 1,329,686; Feb. 3; v. 271; p. 63.
Carbureter. A. Weiland. No. 1,345,298; June 29; v. 275; p. 967.
Carbureter. G. E. B. Welles. No. 1,358,686; Nov. 9; v. 280; p. 351.
Carbureter-adjuster. R. M. and H. R. Donaldson. No. 1,328,946; Jan. 27; v. 270; p. 515.
Carbureter-adjusting device. T. D. Adair, Jr. No. 1,339,849; May 4; v. 274; p. 87.
Carbureter and vaporizer. H. Knight. No. 1,344,698; June 29; v. 275; p. 852.
Carbureter attachment. J. Jones. No. 1,343,001; June 22; v. 275; p. 650.
Carbureter attachment. G. F. Shields. No. 1,347,297; July 20; v. 276; p. 509.
Carbureter control. H. S. McCutchan. No. 1,342,966; June 8; v. 275; p. 318.
Carbureter control. F. Ress. No. 1,341,762; June 1; v. 275; p. 29.
Carbureter device. C. E. Summers. No. 1,331,856; Feb. 24; v. 271; p. 592.
Carbureter, Dust-fuel. H. N. Cross. No. 1,349,751; Aug. 17; v. 277; p. 442.
Carbureter-heater. R. C. Burnett. No. 1,344,021; June 22; v. 275; p. 654.
Carbureter-heater. C. L. Rayfield. No. 1,335,392; Mar. 30; v. 272; p. 826.
Carbureter-heater. C. E. Warwick. No. 1,352,854; Sept. 14; v. 278; p. 258.
Carbureter-lock. W. C. Evans and S. M. Bancroft. No. 1,345,841; July 6; v. 276; p. 101.
Carbureter-regulator, Automatic. J. T. Young. No. 1,346,734; July 13; v. 276; p. 339.
Carbureter, Vacuum-feed. P. P. Gilles. (Reissue.) No. 14,912; July 13; v. 276; p. 354.
Carbureter, Vacuum-feed. P. P. Gilles. No. 1,350,151; Aug. 17; v. 277; p. 518.
Carbureters, Air-cleaner for. A. C. Bennett. No. 1,334,927; Mar. 23; v. 272; p. 680.
Carbureters, Air-control device for the air-inlets of. H. Cory. No. 1,343,311; June 15; v. 275; p. 449.
Carbureters, Air-control mechanism for. O. Rice. No. 1,337,326; Apr. 20; v. 273; p. 442.
Carbureters, Air-feed for. D. Plavsa. No. 1,329,545; Feb. 3; v. 271; p. 38.
Carbureters, Air-valve attachment for. H. L. Lane. No. 1,328,235; Jan. 13; v. 270; p. 316.
Carbureters, Apparatus for feeding liquid fuel to. C. H. Anderson. No. 1,328,354; Jan. 20; v. 270; p. 374.
Carbureters, Automatic auxiliary-air-inlet valve for. J. A. Payne. No. 1,361,900; Dec. 14; v. 281; p. 280.
Carbureters, Auxiliary air-valve for. M. E. Schrader. No. 1,347,795; July 27; v. 276; p. 665.
Carbureters, Dust-collector for. C. H. Stinson. No. 1,339,609; May 11; v. 274; p. 255.
Carbureters, Fuel-feed for. A. G. McCaleb. No. 1,331,445; Feb. 17; v. 271; p. 493.
Carbureters, Humidifier attachment for. O. L. Ihrig. No. 1,355,094; Oct. 5; v. 279; p. 128.
Carbureters, Needle-valve for. I. T. Swarts. No. 1,335,587; Mar. 30; v. 272; p. 852.
Carbureters, Shut-off device for. G. E. Kipp. No. 1,348,226; Aug. 3; v. 277; p. 19.
Carbureters, Vacuum-feed attachment for. F. V. Risinger. No. 1,340,983; May 25; v. 274; p. 643.
Carbureters, Vacuum feed device for. A. L. Payton. No. 1,332,855; Mar. 2; v. 272; p. 130.
Carbureters, Vaporizer for. G. B. Cass. No. 1,352,049; Sept. 7; v. 278; p. 65.
Carbureting apparatus. R. M. Anderson. No. 1,333,149; Mar. 9; v. 272; p. 237.
Carbureting apparatus. J. G. Willet. No. 1,333,050; Mar. 9; v. 272; p. 218.
Carbureting-screen. F. W. Lapham. No. 1,353,248; Sept. 21; v. 278; p. 394.
Carcass-beating wheel. J. W. Kohlhepp. No. 1,357,640; Nov. 2; v. 280; p. 83.

Digitized by Google

Alphabetical list of inventions—Continued.

Carcass-dehairing machine. L. A. Kramer. No. 1,336,524; Apr. 13; v. 273; p. 214.
Carcass scraping and polishing machine. F. v. Brecht and H. W. Tohtz. No. 1,350,435; Aug. 24; v. 277; p. 620.
Carcass-scraping wheel. J. W. Kohlhepp. No. 1,347,639; July 27; v. 276; p. 633.
Card-accounting systems, Means employed in. H. H. van Santen. No. 1,336,992; Apr. 13; v. 273; p. 304.
Card and memorandum-book, Combination. E. A. Olson. No. 1,350,783; Aug. 24; v. 277; p. 678.
Card appliance. H. Maier. No. 1,344,547; June 22; v. 275; p. 757.
Card-cleaning apparatus, Pneumatic. W. H. Goldsmith, Jr. No. 1,338,651; Apr. 27; v. 273; p. 761.
Card-clipping machine, Time-. G. W. Odell. No. 1,344,059; June 22; v. 275; p. 662.
Card-container and table, Combined. F. Gunchick. No. 1,329,080; Jan. 27; v. 270; p. 540.
Card, Display-. R. T. Stafford. No. 1,343,651; June 15; v. 275; p. 516.
Card-distributing device. U. B. White and M. H. Wetzel. No. 1,341,695; June 1; v. 275; p. 16.
Card-distributing machine, Pneumatic. A. S. Trew. No. 1,333,193; Mar. 9; v. 272; p. 245.
Card-exhibitor. M. Mather. No. 1,354,261; Sept. 28; v. 278; p. 642.
Card-file. W. L. Dinsmoor. No. 1,340,757; May 18; v. 274; p. 529.
Card, Guide-. E. E. Yarley. No. 1,329,569; Feb. 3; v. 271; p. 42.
Card-holder. J. H. Bender. No. 1,349,935; Aug. 17; v. 277; p. 476.
Card-holder. A. E. Delaney. No. 1,361,310; Dec. 7; v. 281; p. 65.
Card-holder. J. Evans. No. 1,331,251; Feb. 17; v. 271; p. 457.
Card-holder. H. A. Gray. No. 1,326,926; Jan. 6; v. 270; p. 8.
Card-holder. G. F. Hix. No. 1,357,561; Nov. 2; v. 280; p. 67.
Card-holder. F. A. Hollands. No. 1,363,468; Dec. 28; v. 281; p. 628.
Card-holder and clamp, Combined. E. Bennett. No. 1,336,723; Apr. 13; v. 273; p. 253.
Card-holder for record system. E. Lavergne dit Renaud. No. 1,338,790; May 4; v. 274; p. 26.
Card holder, Loose-file-. S. J. P. Swallender. No. 1,348,906; Aug. 10; v. 277; p. 202.
Card-holding device. C. W. Anderson. No. 1,332,941; Mar. 9; v. 272; p. 197.
Card, Indicator-. F. D. Spotswood. No. 1,333,686; Mar. 16; v. 272; p. 399.
Card, License-. C. H. Cornell. No. 1,346,005; July 6; v. 276; p. 134.
Card-mounting. F. W. Stevens. No. 1,356,892; Oct. 26; v. 279; p. 619.
Card or tag holder. J. Chwala. No. 1,330,684; Feb. 10; v. 271; p. 281.
Card-protector. F. H. Johnston. No. 1,354,616; Oct. 5; v. 279; p. 34.
Card-rack. C. M. Crook. No. 1,335,822; Apr. 6; v. 273; p. 22.
Card rack and box. J. H. Jacobson. No. 1,335,337; Mar. 30; v. 272; p. 816.
Card-receptacle. W. C. Cutler. No. 1,328,035; Jan. 13; v. 270; p. 277.
Card, Record-. N. B. Braly. No. 1,327,855; Jan. 13; v. 270; p. 243.
Card, Registration-. A. R. Mutton. No. 1,333,439; Mar. 9; v. 272; p. 291.
Card, Sample-. A. Weinbach. No. 1,351,594; Aug. 31; v. 277; p. 910.
Card-sorter. J. E. Wright. No. 1,333,891; Mar. 16; v. 272; p. 436.
Card, Statistical-record. W. H. Bassett. No. 1,346,162; July 13; v. 276; p. 226.
Card-suspending device. W. C. Cutler. No. 1,348,546; Aug. 3; v. 277; p. 81.
Card system. E. C. Phillips. No. 1,360,574; Nov. 30; v. 280; p. 879.
Card, Tally-. W. W. White. No. 1,354,151; Sept. 28; v. 278; p. 619.
Card writers, artists, and architects for pen, brush, and air-brush work, Composition of matter to be used by show-. W. Sondergard. No. 1,358,096; Nov. 16; v. 280; p. 457.
Cards adapted for statistic or similar purposes and apparatus for sorting the cards. K. E. L. Liedstrand. No. 1,334,957; Mar. 30; v. 272; p. 744.
Cards, calendars, &c., Fastening device for. J. P. Burke. No. 1,328,123; Jan. 13; v. 270; p. 294.
Cards, Deck of. W. D. Roy. No. 1,355,782; Oct. 12; v. 279; p. 314.
Cards, Educational playing-. C. Britton. No. 1,327,019; June 6; v. 270; p. 27.
Cards, Game-. J. R. Duncan. No. 1,349,189; Aug. 10; v. 277; p. 258.
Cards, Game-. J. M. Hart. No. 1,357,166; Oct. 26; v. 279; p. 673.
Cards, Machine for stamping workmen's individual. K. A. A. Lehmann and C. Schindler. No. 1,328,840; Jan. 27; v. 270; p. 495.
Cards or like supports, Method of and apparatus for affixing objects on. E. Kollmar. No. 1,354,308; Sept. 28; v. 278; p. 651.
Cards or photographs, Selective mount for. H. L. Opsahl. No. 1,353,846; Sept. 28; v. 278; p. 557.
Cards, Playing-. R. F. Thomas. No. 1,361,202; Dec. 7; v. 281; p. 44.
Cardboard and like boxes which are made collapsible. A. Aviss. No. 1,338,664; May 4; v. 274; p. 3.
Cardboard box. M. M. Martos. No. 1,349,780; Aug. 17; v. 277; p. 447.
Cardboard impervious to grease, Composition for rendering. A. J. Cavanaugh, Jr. No. 1,357,844; Nov. 2; v. 280; p. 123.
Cardboard receptacle, Folded. W. T. Wilson. No. 1,334,687; Mar. 23; v. 272; p. 632.
Carding apparatus, Transit chute for safety-pin-. C. B. Goldsmith. No. 1,335,731; Apr. 6; v. 273; p. 5.
Carding-engines, Device for cleaning the flats in. W. Draper. No. 1,363,094; Dec. 21; v. 281; p. 516.
Carding-engines, Drum or cylinder of. J., W., and H. Platt. No. 1,337,470; Apr. 20; v. 273; p. 469.
Carding-machines, Stripping mechanism for. A. G. Boozer. No. 1,327,696; Jan. 13; v. 270; p. 214.
Cargo-handling apparatus. J. G. Gunn. No. 1,351,167; Aug. 31; v. 277; p. 823.
Cargo-stop. H. D. Lathrop. No. 1,336,569; Apr. 13; v. 273; p. 223.
Carline and making same. T. A. Collison. No. 1,330,980; Feb. 17; v. 271; p. 407.
Carline, Metallic. J. E. Lindeman. No. 1,359,182; Nov. 16; v. 280; p. 491.
Carousel. S. Alseth. No. 1,360,071; Nov. 23; v. 280; p. 712.
Carousel. C. E. Morris. No. 1,327,725; Jan. 13; v. 270; p. 219.
Carpenters' planes, Extension attachment for. I. James. No. 1,354,651; Oct. 5; v. 279; p. 41.
Carpet and rug cleaner, Blower and suction. F. P. Moore. No. 1,346,044; July 6; v. 276; p. 142.
Carpet and rug fastener. T. W. Burn. No. 1,348,149; Aug. 3; v. 277; p. 3.
Carpet-beater. J. E. Hanson. No. 1,347,942; July 27; v. 276; p. 695.
Carpet-beater. J. O. Pierce. No. 1,351,535; Aug. 31; v. 277; p. 898.
Carpet-cleaner apparatus. M. R. Johnson and O. N. Halverson. No. 1,343,137; June 8; v. 275; p. 352.
Carpet retainer, Stair-. W. W. Phillips. No. 1,355,775; Oct. 12; v. 279; p. 313.
Carpet-stitching device. C. Valenta. No. 1,339,307; May 4; v. 274; p. 121.
Carpet-sweeper. W. A. Fickes. No. 1,344,389; June 22; v. 275; p. 726.
Carpet sweeper, Suction. J. R. Vander Putten. (Reissue.) No. 14,971; Oct. 26; v. 279; p. 683.
Carpet-sweeping appliance. C. L. Baender. No. 1,327,456; Jan. 6; v. 270; p. 107.
Carpet-weave. G. Crossland. No. 1,349,367; Aug. 10; v. 277; p. 293.
Carpets, Beater for removing dust and dirt from. G. H. Backmire. No. 1,343,895; June 22; v. 275; p. 629.
Carpets, floor-rugs, &c., Machine for printing. P. H. McGlehan. No. 1,338,785; May 4; v. 274; p. 25.
Carriage. A. K. Meinecke and A. Wild. No. 1,347,517; July 27; v. 276; p. 609.
Carriage and coaster, Child's combined. M. Skolnik. No. 1,362,826; Dec. 21; v. 281; p. 464.
Carriage and sleigh, Combination baby-. J. Rowland. No. 1,353,071; Sept. 14; v. 278; p. 300.
Carriage, Baby-. S. Biwoin. No. 1,336,725; Apr. 13; v. 273; p. 253.
Carriage, Baby-. H. Huculak. No. 1,350,806; Aug. 24; v. 277; p. 692.
Carriage, Baby-. J. Modrzejeski. No. 1,344,811; June 29; v. 275; p. 874.
Carriage, Baby-. H. Perlmutter. No. 1,351,439; Aug. 31; v. 277; p. 879.
Carriage, Baby-. G. S. Shaw. No. 1,363,439; Dec. 28; v. 281; p. 622.
Carriage, Child's portable. J. H. Everingham. No. 1,327,864; Jan. 13; v. 270; p. 245.
Carriage, Folding baby-. J. A. Mahr. No. 1,335,122; Mar. 30; v. 272; p. 776.
Carriage for counter attachments. W. E. Hosch. No. 1,336,231; Apr. 6; v. 273; p. 100.
Carriage, Hand-bag baby-. F. J. Eble. No. 1,361,698; Dec. 7; v. 281; p. 144.
Carriage, Infant's. G. O. Johnson. No. 1,346,963; July 20; v. 276; p. 444.
Carriage-threading device. D. Blydenburgh. No. 1,338,809; May 4; v. 274; p. 30.
Carriage-top. C. A. Lindberg. No. 1,338,026; Aug. 27; v. 273; p. 644.
Carriage-top. C. A. Lindberg. No. 1,340,279; May 18; v. 274; p. 438.
Carriages and other vehicles, Sleigh-runner attachment for baby-. H. Fleckl and W. J. Boyd. No. 1,343,046; June 8; v. 275; p. 334.

Digitized by Google

Carriages, Collapsible screen for baby-. L. N. Sperling and C. J. Harris. No. 1,339,527; May 11; v. 274; p. 239.
Carriages, Fluid check for traveling. P. M. Taylor. No. 1,355,865; Oct. 12; v. 279; p. 284.
Carriages, Running-gear for children's. C. A. Lindberg. No. 1,339,961; May 11; v. 274; p. 321.
Carrier: *See*—
Adjustable food-carrier.
Ammunition-carrier.
Article-carrier.
Automobile luggage-carrier.
Automobile tire-carrier.
Baby-carrier.
Bicycle book-carrier.
Bicycle luggage-carrier.
Bottle-carrier.
Braiding-carrier.
Bread cutter and carrier.
Bundle-carrier.
Casket-carrier.
Clothes-basket carrier.
Coal-scuttle and implement carrier.
Coupling-carrier.
Drapery-carrier.
Drier-carrier.
Egg-carrier.
Gravity-carrier.
Harvester bundle-carrier.
Hay-carrier.
Ice-carrier.
Ice-cream-cone carrier.
Jack-carrier.
Luggage-carrier.
Mail-carrier.
Milk-carrier.
Motor-driven carrier.
Overhead carrier.
Pack-carrier.
Package and article carrier.
Parcel-carrier.
Pocketed carrier.
Roll-film carrier.
Sample-carrier.
Shade-carrier.
Sheaf-carrier.
Sheave-carrier.
Sleigh-carrier.
Spare-rim carrier.
Surveying-instrument carrier.
Tire-carrier.
Tire-tube carrier.
Tool-carrier.
Woven carrier.
Woven pocketed carrier.
Carrier. C. S. Jennings. No. 1,332,901; Mar. 9; v. 272; p. 190.
Carrier. J. Kalix. No. 1,352,969; Sept. 14; v. 278; p. 281.
Carrier. B. F. Kelly. No. 1,337,518; Apr. 20; v. 273; p. 487.
Carrier. M. Ovestrud. No. 1,333,821; Mar. 16; v. 272; p. 424.
Carrier and handle therefor. L. L. Luce. No. 1,359,461; Nov. 16; v. 280; p. 547.
Carrier and producing same, Pocketed. G. W. Spalding. No. 1,339,794; May 11; v. 274; p. 290.
Carrier and producing same, Pocketed. G. W. Spalding. No. 1,339,795; May 11; v. 274; p. 290.
Carrier and radio system, Combined. H. A. Affel. No. 1,353,698; Sept. 21; v. 278; p. 485.
Carrier apparatus. L. W. Chism. No. 1,347,496; July 27; v. 276; p. 605.
Carrier-brake. M. G. A. Monson. No. 1,335,594; Mar. 30; v. 272; p. 863.
Carrier-receptacle. R. P. Orr. No. 1,340,077; May 11; v. 274; p. 343.
Carrier system. L. W. Chism. No. 1,347,497; July 27; v. 276; p. 605.
Cart. J. Hintz. No. 1,339,624; May 11; v. 274; p. 258.
Cart, Barrel-. J. C. Gordon. No. 1,342,437; June 8; v. 275; p. 214.
Cart, Child's coaster-. M. H. Wickman. No. 1,355,199; Oct. 12; v. 279; p. 202.
Cart, Hand-. J. Z. Benedict. No. 1,350,058; Aug. 17; v. 277; p. 500.
Cart-seat. C. H. Turner. No. 1,337,295; Apr. 20; v. 273; p. 436.
Cart, Tread-mill play-. C. B. Culver. No. 1,350,546; Aug. 24; v. 277; p. 642.
Carts, Regulating device for watering-. G. Schlatter and G. Segin. No. 1,349,440; Aug. 10; v. 277; p. 307.
Carton. H. Furste. No. 1,355,325; Oct. 12; v. 279; p. 226.
Carton. J. P. Markert. No. 1,352,759; Sept. 14; v. 278; p. 239.
Carton and blank therefor. R. A. Taylor. No. 1,343,420; June 15; v. 275; p. 470.
Carton, Dispensing and displaying. R. H. Fitz Gerald. No. 1,341,893; June 1; v. 275; p. 55.
Carton, Display-. F. G. Fisher. No. 1,362,565; Dec. 14; v. 281; p. 361.
Carton, Display-. J. V. Horr. No. 1,347,273; July 20; v. 276; p. 505.
Carton, Display-. J. B. Singer and A. B. Levy. No. 1,361,630; Dec. 7; v. 281; p. 131.
Carton opening and feeding mechanism. S. R. Howard. No. 1,342,047; June 1; v. 275; p. 85.
Carton-packing mechanism. A. W. Harris. No. 1,345,926; July 6; v. 276; p. 118.
Cartons, End-folding and sealing machine for. G. A. Robinson. No. 1,338,749; May 4; v. 274; p. 19.
Cartons, Machine for and method of sealing. F. W. Sutherland. No. 1,359,546; Nov. 23; v. 280; p. 609.
Cartons, Machine for sealing. H. L. Johnson. No. 1,352,197; Sept. 7; v. 278; p. 93.
Cartons, Machine for setting up. W. J. Phelps. No. 1,333,130; Mar. 9; v. 272; p. 233.
Cartons or boxes, Apparatus for forming. W. P. McGeouch and G. C. Beckwith. No. 1,337,845; Apr. 20; v. 273; p. 540.
Cartons, Sanitary package of individual sealed. J. W. McAuliffe. No. 1,338,315; Apr. 27; v. 273; p. 699.
Cartoning-machine. E. D. Anderson. No. 1,359,946; Nov. 23; v. 280; p. 688.
Cartridge. F. M. Thomas. No. 1,328,307; Jan. 20; v. 270; p. 365.
Cartridge. J. T. Thompson. No. 1,353,118; Sept. 14; v. 278; p. 309.
Cartridge-belt. H. B. Cooley. No. 1,341,111; May 25; v. 274; p. 668.
Cartridge-belt. E. B. Stimpson. No. 1,329,346; Jan. 27; v. 270; p. 589.
Cartridge-belts, Machine for filling. G. C. Blickensderfer. No. 1,358,699; Nov. 16; v. 280; p. 398.
Cartridge-belts, Machine for filling. G. C. Blickensderfer. No. 1,358,700; Nov. 16; v. 280; p. 398.
Cartridge, Blasting-. J. Kogolshek. No. 1,358,318; Nov. 9; v. 280; p. 277.
Cartridge-box. W. E. Inglis. No. 1,359,895; Nov. 23; v. 280; p. 678.
Cartridge-case. C. E. Sherman. No. 1,330,144; Feb. 10; v. 271; p. 181.
Cartridge conveyer-belt. F. Bangerter. No. 1,331,043; Feb. 17; v. 271; p. 419.
Cartridge, Dummy. R. E. Reardon. No. 1,347,659; July 27; v. 276; p. 637.
Cartridge, Hydraulic. G. W. McNeil and C. F. Anderson. No. 1,358,767; Nov. 16; v. 280; p. 412.
Cartridge, Hydraulic-joint. E. Rimailho. No. 1,346,722; July 13; v. 276; p. 337.
Cartridge-magazine. O. V. Payne. No. 1,347,755; July 27; v. 276; p. 658.
Cartridge-magazine. O. V. Payne. No. 1,350,619; Aug. 24; v. 277; p. 656.
Cartridge-magazine. J. T. Thompson and H. H. Cummings. No. 1,353,092; Sept. 14; v. 278; p. 304.
Cartridge-shells, Machine for heading. L. E. Hooker. No. 1,363,597; Dec. 28; v. 281; p. 654.
Cartridge-tube filler. S. Paulson. No. 1,340,737; May 18; v. 274; p. 528.
Cartridges from charge-clips, Means or appliance for stripping. H. R. Northover. No. 1,355,684; Oct. 12; v. 279; p. 295.
Cartridges to a gun, Attachment for preventing the feeding of ball-. S. G. Green. No. 1,354,825; Oct. 5; v. 279; p. 76.
Carving, routing, and similar operations, Machine for. H. M. Albee. No. 1,349,250; Aug. 10; v. 277; p. 271.
Case: *See*—
Battery-case.
Bookcase.
Brief and other carrying case.
Carboy-case.
Cartridge-case.
Cigarette-case.
Clock-case.
Dental toilet-case.
Display-case.
Egg-case.
Egg-shipping case.
Eyeglass-case.
Filing-case.
Kit-case.
Map case.
Music-case.
Packing-case.
Packing and display case.
Pocket-case.
Shaving-brush case.
Shipping-case.
Show-case.
Show and sales case.
Signal-carrying case.
Spool-case.
Steel transmission-case.
Store-case.
Talking-machine case.
Thermometer-case.
Ticket-seller's case.
Tobacco-case.
Toilet-case.
Vanity-case.
Watchcase.
Case and table, Combined. A. F. Derse and W. B. Wilshusen. No. 1,357,623; Nov. 2; v. 280; p. 80.
Case-hardening. S. Whyte. No. 1,345,050; June 29; v. 275; p. 919.
Case-hardening apparatus. A. W. Machlet. No. 1,337,244; Apr. 20; v. 273; p. 426.
Casement-adjuster. A. Danielson. No. 1,335,429; Mar. 30; v. 272; p. 832.
Casement-adjuster. C. J. Hagstrom. No. 1,344,507; June 22; v. 275; p. 750.
Casement-adjuster. R. W. Morrison. No. 1,330,333; Feb. 10; v. 271; p. 216.
Casing-cutter. H. W. Beatty. No. 1,328,940; Jan. 27; v. 270; p. 514.
Casing-cutter. R. E. Bering. No. 1,358,818; Nov. 16; v. 280; p. 422.
Casing-elevator. E. Double and B. N. Youngken. No. 1,358,943; Nov. 16; v. 280; p. 447.
Casing-head. P. Arbon. No. 1,352,423; Sept. 14; v. 278; p. 171.
Casing-head. H. S. McGarry and J. D. Carr. No. 1,352,075; Sept. 7; v. 278; p. 70.
Casing-head. W. M. Roades. No. 1,343,477; June 15; v. 275; p. 481.
Casing-head top. C. S. Wright. No. 1,343,426; June 15; v. 275; p. 471.
Casing-hook. P. S. Brooks, Jr. No. 1,363,689; Dec. 28; v. 281; p. 661.
Casing-shoe. J. C. Lindsay. No. 1,363,987; Dec. 28; v. 281; p. 729.
Casein composition. H. V. Dunham. No. 1,334,358; Mar. 23; v. 272; p. 571.
Casein compounds, Producing hardened. H. P. Bassett. No. 1,360,356; Nov. 30; v. 280; p. 836.
Casein solution and making same, Stable. H. V. Dunham. No. 1,347,845; July 27; v. 276; p. 675.

Digitized by Google

Alphabetical list of inventions—Continued.

Cash-account register. T. Mao. No. 1,335,447; Mar. 30; v. 272; p. 836.
Cash-carrier box. M. A. Pond. No. 1,346,676; July 13; v. 276; p. 328.
Cash-register. L. E. Clement. No. 1,337,441; Apr. 20; v. 273; p. 463.
Cash-register. F. L. Fuller. No. 1,336,693; Apr. 13; v. 273; p. 247.
Cash-register. B. M. Shipley. No. 1,360,151; Nov. 23; v. 280; p. 728.
Cash-register printing mechanism. F. M. Carroll. No. 1,338,903; May 4; v. 274; p. 47.
Cashier-protector. E. J. Carroll. No. 1,355,890; Oct. 19; v. 279; p. 876.
Cask-cover, Removable. J. L. Kolbe. No. 1,360,766; Nov. 30; v. 280; p. 917.
Casket. L. P. H. Bourk. No. 1,335,722; Apr. 6; v. 273; p. 4.
Casket. L. M. Bowman. No. 1,344,674; June 29; v. 275; p. 847.
Casket. L. P. Cook and J. D. Sims. No. 1,342,324; June 1; v. 275; p. 139.
Casket and carrier therefor, Glass. J. W. De Camp. No. 1,349,412; Aug. 10; v. 277; p. 302.
Casket attachment, Burial-. F. P. J. Sparmaker. No. 1,328,345; Jan. 20; v. 270; p. 373.
Casket, Burial-. E. A. Post and E. F. Schmits. No. 1,348,579; Aug. 3; v. 277; p. 87.
Casket-carrier, Collapsible. J. A. Raymond. No. 1,347,466; July 20; v. 276; p. 542.
Casket, Collapsible burial-. A. W. Albrecht. No. 1,349,799; Aug. 17; v. 277; p. 451.
Casket-handle. A. R. Betts and P. J. Goke. No. 1,344,855; June 29; v. 275; p. 882.
Casket-handle. H. W. Hodgetts. No. 1,342,443; June 8; v. 275; p. 215.
Casket-handle. F. E. Roberts. No. 1,337,278; Apr. 20; v. 273; p. 482.
Casket handle, Burial-. S. Brent. No. 1,345,314; June 29; v. 275; p. 970.
Casket lock, Burial-. F. Lundberg. No. 1,345,451; July 6; v. 276; p. 24.
Casket, Metallic. F. Mesker. No. 1,327,442; Jan. 6; v. 270; p. 104.
Casket-panel. D. J. Reynolds. No. 1,343,280; June 15; v. 275; p. 443.
Cassette. H. P. MacLagan. No. 1,352,615; Sept. 14; v. 278; p. 209.
Casserole-holder. J. E. Dillmeier. No. 1,355,593; Oct. 12; v. 279; p. 278.
Cast-off, Two-piece. E. Cleary. No. 1,327,199; Jan. 6; v. 270; p. 60.
Cast-steel wheel. A. Hargraves. No. 1,331,917; Feb. 24; v. 271; p. 608.
Casts, Process and apparatus for forming. A. G. Bergman. No. 1,335,475; Mar. 30; v. 272; p. 841.
Caster. J. Bedl. No. 1,333,598; Mar. 16; v. 272; p. 382.
Caster. G. Botta. No. 1,333,895; Mar. 16; v. 272; p. 437.
Caster. J. S. Cantelo. No. 1,338,356; Apr. 27; v. 273; p. 707.
Caster. J. S. Cantelo. No. 1,348,150; Aug. 3; v. 277; p. 4.
Caster. A. B. Diss. No. 1,329,585; Feb. 3; v. 271; p. 45.
Caster. A. E. Finch. No. 1,342,500; June 8; v. 275; p. 226.
Caster. F. H. Hardon. No. 1,358,543; Nov. 9; v. 280; p. 322.
Caster. D. M. Kennedy. No. 1,342,448; June 8; v. 275; p. 216.
Caster. F. Kessel. No. 1,352,004; Sept. 7; v. 278; p. 58.
Caster. W. H. McAllister. No. 1,344,418; June 22; v. 275; p. 732.
Caster. P. R. Nack. No. 1,345,622; July 6; v. 276; p. 57.
Caster. W. H. Noelting. No. 1,346,240; July 13; v. 276; p. 241.
Caster. W. H. Noelting. No. 1,349,088; Aug. 10; v. 277; p. 287.
Caster. C. G. Overmyer. No. 1,338,249; Apr. 27; v. 273; p. 686.
Caster. J. B. Watling. No. 1,353,195; Sept. 21; v. 278; p. 385.
Caster, Adjustable. C. S. Beardsley. No. 1,339,805; May 11; v. 274; p. 292.
Caster, Adjustable. C. W. Ostrander. No. 1,333,441; Mar. 9; v. 272; p. 291.
Caster, Adjustable. G. F. Van Meter. No. 1,328,775; Jan. 20; v. 270; p. 453.
Caster, Adjustable. G. F. Van Meter. No. 1,345,294; June 29; v. 275; p. 966.
Caster, Ball-bearing. E. J. Smith. No. 1,356,566; Oct. 26; v. 279; p. 555.
Caster, Ball-bearing swivel-. J. L. Chesnutt. No. 1,344,864; June 29; v. 275; p. 884.
Caster-connecting device. R. J. Ellsworth. No. 1,346,641; July 13; v. 276; p. 321.
Caster, Cuspidor-. J. A. House. No. 1,330,376; Feb 10; v. 271; p. 224.
Caster. Double-wheel antifriction-. E. Payson, No. 1,338,325; Apr. 27; v. 273; p. 701.
Caster, Furniture-. A. Czyzyk. No. 1,337,344; Apr. 20; v. 273; p. 446.
Caster, Furniture-. S. Kozik. No. 1,327,920; Jan. 13; v. 270; p. 256.
Caster, Sliding. S. M. Child. No. 1,332,605; Mar. 2; v. 272; p. 83.
Caster, Sliding. C. L. Preston. No. 1,359,741; Nov. 23; v. 280; p. 647.
Caster-socket. C. S. Barnard. No. 1,345,908; July 6; v. 276; p. 114.
Caster-socket. W. H. Noelting. No. 1,346,239; July 13; v. 276; p. 241.
Caster, Swivel-. S. W. Chesnutt. No. 1,341,630; June 1; v. 275; p. 3.
Casting. J. L. Ware. No. 1,343,017; June 8; v. 275; p. 329.
Casting apparatus. E. E. Novotny. No. 1,357,343; Nov. 2; v. 280; p. 27.
Casting apparatus. F. H. Vallender. No. 1,343,016; June 8; v. 275; p. 329.
Casting apparatus, Metal-. W. H. Warren. No. 1,336,767; Apr. 13; v. 273; p. 268.
Casting articles of clay. F. J. Wolff. No. 1,351,599; Aug. 31; v. 277; p. 911.
Casting-box. E. E. Novotny. No. 1,357,342; Nov. 2; v. 280; p. 27.
Casting, Centrifugal pipe-. J. B. Ladd. No. 1,351,766; Sept. 7; v. 278; p. 10.
Casting curved tubular bodies, Core for. G. W. Bungay. No. 1,347,575; July 27; v. 276; p. 621.
Casting device. J. F. McMath. No. 1,352,523; Sept. 14; v. 278; p. 191.
Casting ferromanganese. C. G. Fink. No. 1,361,086; Dec. 7; v. 281; p. 11.
Casting freely-oxidizable metals. H. E. Bakken. No. 1,363,384; Dec. 21; v. 281; p. 612.
Casting hollow bars or tubes, Method of and apparatus for. G. Mellen. No. 1,342,127; June 1; v. 275; p. 101.
Casting iron screen-plates for steel grids. D. Brown. No. 1,339,096; May 4; v. 274; p. 84.
Casting-machine. D. G. Anderson. No. 1,350,352; Aug. 24; v. 277; p. 603.
Casting-machine. E. Disinger. No. 1,354,782; Oct. 5; v. 279; p. 56.
Casting-machine. R. J. Powell. No. 1,341,670; June 1; v. 275; p. 11.
Casting-machine, Centrifugal. J. B. Ladd. No. 1,344,409; June 22; v. 275; p. 730.
Casting-machine, Centrifugal. J. B. Ladd. No. 1,347,582; July 27; v. 276; p. 623.
Casting-machine, Centrifugal. F. E. Roach. No. 1,362,821; Dec. 21; v. 281; p. 463.
Casting machine, Pig-metal-. W. T. Hurst. No. 1,354,975; Oct. 5; v. 279; p. 105.
Casting machine, Type-bar-. C. L. Hohr. No. 1,355,241; Oct. 12; v. 279; p. 210.
Casting machine, Slug-. H. C. Buchwald and J. H. Connelly. No. 1,360,881; Nov. 30; v. 280; p. 939.
Casting machines, Mold of line-. J. Dorneth. No. 1,363,577; Dec. 28; v. 281; p. 650.
Casting metal. C. McKnight, Jr. No. 1,331,816; Feb. 24; v. 271; p. 584.
Casting metal. W. H. Warren. No. 1,336,768; Apr. 13; v. 273; p. 261.
Casting metal bars. C. G. Helby, J. Burkam, D. E. Lindquist, E. W. Allen, F. L. Riggin, and R. Lau. No. 1,331,919; Feb. 24; v. 271; p. 603.
Casting metal bars, Mold for. C. G. Helby, J. Burkam, D. E. Lindquist, F. L. Riggin, E. W. Allen, and R. Lau. No. 1,331,920; Feb. 24; v. 271; p. 603.
Casting metal on a metal core. H. E. Payne. No. 1,355,255; Oct. 12; v. 279; p. 213.
Casting method. F. Hachmann. No. 1,356,713; Oct. 26; v. 279; p. 584.
Casting method and apparatus, Centrifugal. H. G. Eynon. No. 1,349,416; Aug. 10; v. 277; p. 303.
Casting, Method of and apparatus for. J. B. Wiard. No. 1,360,484; Nov. 30; v. 280; p. 862.
Casting-mold. F. Hachmann. No. 1,334,029; Mar. 16; v. 272; p. 468.
Casting-mold. F. Hachmann. No. 1,334,030; Mar. 16; v. 272; p. 464.
Casting-mold. F. Hachmann. No. 1,356,712; Oct. 26; v. 279; p. 584.
Casting-mold. F. Hachmann. No. 1,356,714; Oct. 26; v. 279; p. 585.
Casting-mold. F. Hachmann. No. 1,356,715; Oct. 26; v. 279; p. 585.
Casting molds, Composition for. J. Lucas. No. 1,338,141; Apr. 27; v. 273; p. 666.
Casting of aluminum and another metal, Making a composite. H. B. Hiteshaw. No. 1,339,956; May 11; v. 274; p. 321.
Casting, Preparing molds for. E. Fries. No. 1,345,162; June 29; v. 275; p. 940.
Casting process. A. G. Gruss and P. Geyer. No. 1,341,461; May 25; v. 274; p. 736.
Casting, Rotary. D. S. de Lavaud. No. 1,329,295; Jan. 27; v. 270; p. 580.
Casting, Rotary. D. S. de Lavaud. No. 1,329,296; Jan. 27; v. 270; p. 580.

Digitized by Google

Casting, Rotary. D. S. de Lavaud. No 1,329,754; Feb. 3; v. 271; p. 76.
Castings, Annealing metal. D. Mac Intosh. No. 1,356,644; Oct. 26; v. 279; p. 571.
Castings, Apparatus for coating. J. Dixon and J. M. Shaffer. No. 1,348,351; Aug. 3; v. 277; p. 44.
Castings, Heat treatment for. B. L. Smith. No. 1,328,851; Jan. 27; v. 270; p. 497.
Castings, Making. Z. Jeffries. No. 1,347,481. July 20; v. 276; p. 545.
Castings, Making molds for finished. J. Kralund. No. 1,335,509; Mar. 30; v. 272; p. 847.
Castings, Method of and apparatus for making and handling. C. K. Prince. No. 1,347,552; July 27; v. 276; p. 616.
Castings, Pit-flask for. E. Fries. No. 1,345,161; June 29; v. 275; p. 940.
Castings, Process and apparatus for forming hollow. E. M. Winter. No. 1,362,978; Dec. 21; v. 281; p. 493.
Catalyst and making it. J. C. W. Frazer. No. 1,345,323; June 29; v. 275; p. 972.
Catalyst and producing same. N. Sulzberger. No. 1,338,709; May 4; v. 274; p. 11.
Catalysts, Manufacture of. J. Boyce. No. 1,339,686; May 11; v. 274; p. 270.
Catalytic acceleration of oxidation process. C. S. Piggot. No. 1,357,000; Oct. 26; v. 279; p. 641.
Catalytic agents for reduction or hydrogenation purposes. Apparatus for producing. A. Radisson and P. Berthon. No. 1,330,008; Feb. 3; v. 271; p. 128.
Catalytic material, Making. C. Ellis. No. 1,329,323; Jan. 27; v. 270; p. 585.
Catalytic oxidation of anthracene. J. M. Weiss and C. R. Downs. No. 1,355,098; Oct. 5; v. 279; p. 129.
Catalytic reactions in the vapor phase, Producing. F. A. Canon. No. 1,355,105; Oct. 5; v. 279; p. 130.
Catalyzer for effecting hydrogenation and making same. B. W. Elder. No. 1,331,903; Feb. 24; v. 271; p. 600.
Catalyzers and for effecting hydrogenation thereby, Producing. B. W. Elder. No. 1,331,906; Feb. 24; v. 271; p. 601.
Catalyzers, Apparatus for making. W. D. Richardson. No. 1,338,698; May 4; v. 274; p. 9.
Catalyzers, Composition adapted for making. C. Ellis. No. 1,335,161; Mar. 30; v. 272; p. 783.
Catalyzers for hydrogenation, Producing. B. W. Elder. No. 1,331,904; Feb. 24; v. 271; p. 600.
Catamaran. D. Maciuk. No. 1,328,746; Jan. 20; v. 270; p. 448.
Catamenial bandage. A. T. Van Alstyn. (Reissue.) No. 14,924; July 20; v. 276; p. 548.
Catch, Belt-. A. J. Scholter. No. 1,361,550; Dec. 7; v. 281; p. 116.
Catch device. E. F. M. Speidel. No. 1,343,939; June 22; v. 275; p. 638.
Catch for washboards and tubs, Spring-hinge. S. J. P. Johnson. No. 1,362,943; Dec. 21; v. 281; p. 486.
Catch holder, Elastic-spring-clamping-. G. W. Ferdon. No. 1,350,713; Aug. 24; v. 277; p. 675.
Catch, Pin safety-. G. W. Bainton. No. 1,337,114; Apr. 13; v. 273; p. 828.
Catch, Safety-. L. A. Page. No. 1,348,314; Aug. 3; v. 277; p. 37.
Catch, Spring-door. G. A. Kuhn. No. 1,330,945; Feb. 17; v. 271; p. 400.
Cattle-grazing post. L. C. McKenzie. No. 1,350,732; Aug. 24; v. 277; p. 678.
Cattle-guard. H. G. Connell and A. J. Swindall. No. 1,344,262; June 22; v. 275; p. 700.
Cattle-guard. A. Cruickshank. No. 1,342,014; June 1; v. 275; p. 79.
Cattle-guard. J. I. Dominguez. No. 1,345,146; June 29; v. 275; p. 937.
Cattle-guard. W. O. Fink. No. 1,338,006; Apr. 27; v. 273; p. 640.
Cattle-guard. E. Hikok and A. H. Hollenbeck. No. 1,344,535; June 22; v. 275; p. 755.
Cattle-guard. C. King No. 1,354,405; Sept. 28; v. 278; p. 670.
Cattle-guard. J. A. Sparrow and W. Harle. No. 1,354,350; Sept. 28; v. 278; p. 659.
Cattle-stanchion. H. P. Hanson. No. 1,360,940; Nov. 30; v. 280; p. 950.
Cattle-stanchion. H. P. Hanson. No. 1,360,941; Nov. 30; v. 280; p. 950.
Cattle-trap. R. Poppenga. Jr. No. 1,363,054; Dec. 21; v. 281; p. 508.
Ceilings, Furring construction for steel. L. J. Graff. No. 1,334,607; Mar. 23; v. 272; p. 617.
Ceilings, Wall-furring strip for steel. L. J. Graff. No. 1,345,002; June 29; v. 275; p. 909.
Cell and battery, Voltaic. F. R. Parker. No. 1,333,771; Mar. 16; v. 272; p. 414.
Cell-cases, Forming. G. Payne. No. 1,333,772; Mar. 16; v. 272; p. 414.
Cell-post and mounting same. W. P. Loudon. No. 1,362,018; Dec. 14; v. 281; p. 255.
Cells, Manufacture of dry. O. E. Ruhoff. No. 1,361,499; Dec. 7; v. 281; p. 105.
Cellular structure, Reinforced. G. Atterbury. No. 1,349,868; Aug. 17; v. 277; p. 464.
Celluloid insulation. M. D. Sweet. No. 1,330,835; May 11; v. 274; p. 298.
Celluloid products, Treating. F. W. Horton. No. 1,350,157; Aug. 17; v. 277; p. 519.
Celluloid, vulcanite, &c., Dope or substitute for. W. T. Robinson-Bindley and A. W. Weller. No. 1,331,127; Feb. 17; v. 271; p. 434.
Cellulose-acetate composition. P. C. Seel. No. 1,342,603; June 8; v. 275; p. 246.
Cellulose acetate, Manufacture of compositions, preparations, or articles having a basis of. H. Dreyfus. No. 1,353,384; Sept. 21; v. 278; p. 421.
Cellulose acetate, Manufacture of compositions, preparations, or articles having a basis of. H. Dreyfus. No. 1,353,385; Sept. 21; v. 278; p. 421.
Cellulose-acetate solutions, Production of. T. Tyrer. No. 1,339,728; May 11; v. 274; p. 277.
Cellulose acetate with the fatty acids of cocoanut-oil, Composition of. G. W. Miles. No. 1,357,335; Nov. 2; v. 280; p. 26.
Cellulose and making same, Acetyl. W. G. Lindsay. No. 1,338,661; Apr. 27; v. 273; p. 763.
Cellulose, Apparatus for bleaching. A. D. Berglind. No. 1,329,824; Feb. 3; v. 271; p. 90.
Cellulose composition and making same, Acetyl-. J. G. Jarvis. No. 1,343,135; June 8; v. 275; p. 352.
Cellulose derivatives, Material treated with. J. J. Byers. No. 1,327,197; Jan. 6; v. 270; p. 60.
Cellulose, Dissolving. Z. Ostenberg. No. 1,348,731; Aug. 3; v. 277; p. 116.
Cellulose-ester composition. J. M. Kessler. No. 1,360,759; Nov. 30; v. 280; p. 916.
Cellulose-ester composition and making same. P. C. Seel. No. 1,342,601; June 8; v. 275; p. 246.
Cellulose-ester composition and making same, Mixed. S. J. Carroll. No. 1,354,726; Oct. 5; v. 279; p. 56.
Cellulose-ether composition and making same. H. T. Clarke. No. 1,357,614; Nov. 2; v. 280; p. 78.
Cellulose factories, Treating waste gases or vapors from soda-. A. E. Nielsen. No. 1,345,220; June 29; v. 275; p. 951.
Cellulose fiber, Producing. J. A. De Cew. No. 1,354,731; Oct. 5; v. 279; p. 56.
Cellulose for coating materials, Preparing layers of acetyl. A. Eichengrün. No. 1,357,447; Nov. 2; v. 280; p. 47.
Cellulose, Manufacture of products derived from. P. E. C. Goissedet. No. 1,357,450; Nov. 2; v. 280; p. 47.
Cellulose-nitrate composition. P. C. Seel. No. 1,342,602; June 8; v. 275; p. 246.
Cellulose-nitrate composition and making same. S. J. Carroll. No. 1,354,725; Oct. 5; v. 279; p. 56.
Cellulose or compounds of cellulose, Manufacturing tubular products of. L. Hesse. No. 1,341,745; June 1; v. 275; p. 26.
Cellulose, Preparing solutions of. Z. Ostenberg. No. 1,355,415; Oct. 12; v. 279; p. 243.
Cellulose, System for treatment of. R. A. Kocher. No. 1,362,875; Dec. 21; v. 281; p. 473.
Cement. D. W. Adamson. No. 1,338,117; Apr. 27; v. 273; p. 662.
Cement. A. R. Scarlett. No. 1,359,434; Nov. 16; v. 280; p. 541.
Cement. J. A. Shinn. No. 1,334,272; Mar. 16; v. 272; p. 508.
Cement. G. Witty. No. 1,336,178; Apr. 6; v. 273; p. 90.
Cement and alkali from alkaliferous mineral substances and lime, Manufacturing simultaneously hydraulic. E. W. Jungner. No. 1,338,021; Apr. 27; v. 273; p. 643.
Cement and other substances, Mixing and discharging apparatus for. L. H. Eichelberger. No. 1,334,895; Mar. 23; v. 272; p. 673.
Cement-applying machine. A. Smolker. No. 1,345,512; July 6; v. 276; p. 86.
Cement block. O. O. Knudson. No. 1,332,505; Mar. 2; v. 272; p. 64.
Cement-block mold. H. Coates. No. 1,332,246; Mar. 2; v. 272; p. 13.
Cement-block mold. F. Creason. No. 1,342,373; June 1; v. 275; p. 148.
Cement-block tamper. C. H. Johnson. No. 1,344,230; June 22; v. 275; p. 694.
Cement, Combined. K. L. Torno. No. 1,342,360; June 1; v. 275; p. 146.
Cement composition. J. J. Schaller. No. 1,351,874; Sept. 7; v. 278; p. 32.
Cement curbs and gutters, Tool for shaping or forming. J. F. Brooks and L. E. Gimm. No. 1,334,483; Mar. 23; v. 272; p. 594.
Cement for filling voids in brass castings. R. S. Wile. No. 1,359,137; Nov. 16; v. 280; p. 483.
Cement from alkaliferous silicate minerals, Producing alkali carbonate and hydraulic. E. W. Jungner. No. 1,357,873; Nov. 2; v. 280; p. 128.
Cement, Magnesium-oxychlorid. J. B. Shaw and G. A. Bole. No. 1,333,510; Mar. 9; v. 272; p. 304.
Cement, Manufacturing slabs of. L. Baumgartl. No. 1,353,512; Sept. 21; v. 278; p. 446.
Cement-mixer. J. S. Bloom and A. C. Fenner. No. 1,332,880; Mar. 9; v. 272; p. 186.
Cement-mixer. P. O. Egeland. No. 1,340,880; May 25; v. 274; p. 623.

Digitized by Google

Alphabetical list of inventions—Continued.

Cement-mixing machine, Rubber-. C. C. Mosher. No. 1,347,650; July 27; v. 276; p. 635.
Cement-molding apparatus. C. F. Ruby. No. 1,336,539; Apr. 13; v. 273; p. 217.
Cement, Non-porous. F. D. Mulligan. No. 1,338,033; Apr. 27; v. 273; p. 646.
Cement or adhesive. W. Brammer. No. 1,361,819; Dec. 14; v. 281; p. 214.
Cement products, Knockdown mold for. J. L. Hobbs. No. 1,335,501; Mar. 30; v. 272; p. 846.
Cement products, Manufacturing fibrous. R. V. Mattison, Jr. No. 1,327,721; Jan. 13; v. 270; p. 219.
Cement, Refractory-. S. A. McMinn. No. 1,341,510; May 25; v. 274; p. 745.
Cement section for circular buildings. H. J. Barsness. No. 1,350,434; Aug. 24; v. 277; p. 620.
Cement-stave machine. S. E. Anderson. No. 1,346,779; July 13; v. 276; p. 349.
Cement, Steel-. W. R. Chapin. No. 1,362,472; Dec. 14; v. 281; p. 343.
Cement stone for building purposes, Light-weight artificial. E. Walter. No. 1,344,324; June 22; v. 275; p. 713.
Cement structural material. R. V. Mattison, Jr. No. 1,355,506; Oct. 12; v. 279; p. 242.
Cement-tile pallets, Inner liner for. R. B. Sands. No. 1,336,865; Apr. 13; v. 273; p. 280.
Cements and similar products, Manufacture of. M. L. Boillot and J. Daudignac. No. 1,332,422; Mar. 2; v. 272; p. 48.
Cementing. G. C. Nixon. No. 1,333,768; Mar. 16; v. 272; p. 414.
Cementing-machine. J. W. Cosgrove. No. 1,350,298; Aug. 24; v. 277; p. 593.
Cementing-machine. W. P. Osgood and W. E. Smith. No. 1,357,078; Oct. 26; v. 279; p. 656.
Cementing material obtained from greensand. H. W. Charlton. No. 1,327,145; Jan. 6; v. 270; p. 50.
Cementitious products, Machine for making. A. O. Crozier. No. 1,330,172; Feb. 10; v. 271; p. 186.
Cementitious structure. D. J. Flynn. No. 1,345,156; June 29; v. 275; p. 939.
Center. J. Kermath. No. 1,336,843; Apr. 13; v. 273; p. 276.
Center-indicating device. F. F. Clarke. No. 1,351,504; Aug. 31; v. 277; p. 801.
Centering device. K. R. Starkenberg. No. 1,328,213; Jan. 13; v. 270; p. 311.
Centering means and forming monolithic arches. W. M. Belt and H. C. Smith. No. 1,350,772; Aug. 24; v. 277; p. 686.
Centering-support. W. E. Sexton. No. 1,361,105; Dec. 7; v. 281; p. 25.
Centrifugal apparatus with planetary movement. W. Mauss. No. 1,339,272; May 4; v. 274; p. 114.
Centrifugal compressor. J. Gomborow. No. 1,350,927; Aug. 24, v. 277; p. 715.
Centrifugal compressor. R. H. Rice. No. 1,350,941; Aug. 24; v. 277; p. 718.
Centrifugal drier. G. H. Elmore. No. 1,334,028; Mar. 16; v. 272; p. 462.
Centrifugal drier. G. H. Elmore. No. 1,342,743; June 8; v. 275; p. 273.
Centrifugal extractor mechanism. W. Bartholomew and F. Balzer. No. 1,332,376; Mar. 2; v. 272; p. 39.
Centrifugal-extractor mechanism. W. Bartholomew. No. 1,344,749; June 29; v. 275; p. 862.
Centrifugal honey-extractor. H. H. Root. No. 1,363,999; Dec. 28; v. 281; p. 781.
Centrifugal machine. T. A. Bryson. No. 1,331,692; Feb. 24; v. 271; p. 559.
Centrifugal machine. A. H. Gibson. No. 1,336,779; Apr. 13; v. 273; p. 263.
Centrifugal machine and disintegrating material. R. P. Perry. No. 1,352,623; Sept. 14; v. 278; p. 211.
Centrifugal machines, Driving electric. E. D. Mackintosh. No. 1,342,405; June 1; v. 275; p. 154.
Centrifugal machines, Screen for. H. L. Jorgensen. No. 1,333,719; Mar. 16; v. 272; p. 405.
Centrifugal machines, Yieldable bearing for. M. Leitch. No. 1,352,204; Sept. 7; v. 278; p. 94.
Centrifugal separator. R. S. Brownlow. No. 1,356,805; Oct. 26; v. 279; p. 602.
Centrifugal separator. C. P. Tolman. No. 1,358,897; Nov. 16; v. 280; p. 438.
Centrifugal separator. K. and A. Ward. No. 1,363,699; Dec. 28; v. 281; p. 673.
Centrifugal switch. H. R. Canfield. No. 1,362,600; Dec. 21; v. 281; p. 419.
Centrifugal wringer. H. E. Williamson. No. 1,356,250; Oct. 19; v. 279; p. 448.
Centrifuge. J. J. Mojonnier. No. 1,334,109; Mar. 16; v. 272; p. 478.
Centripetal apparatus. W. M. Fridell. No. 1,350,048; Nov. 16; v. 280; p. 466.
Ceramic article. S. C. Linbarger. No. 1,336,751; Apr. 13; v. 273; p. 258.
Ceramic article and making same. W. M. W. Horn. No. 1,335,167; Mar. 30; v. 272; p. 784.
Ceramic composition. O. Gerber. No. 1,336,740; Apr. 13; v. 273 p. 256.
Ceramic firing, Ware-support for. B. B. Swinnerton. No. 1,336,762; Apr. 13; v. 273; p. 260.
Ceramic ware, Staining glazed. J. W. Hasburg. No. 1,334,301; Mar. 23; v. 272; p. 560.
Cereal-scouring machine. G. E. Friedrich. No. 1,337,127; Apr. 13; v. 273; p. 330.
Certificate of value. W. M. Andrus. No. 1,359,947; Nov. 23; v. 280; p. 688.
Chain. R. L. Binder. No. 1,329,034; Jan. 27; v. 270; p. 532.
Chain. F. G. Gale. No. 1,341,052; May 25; v. 274; p. 657.
Chain. G. W. Goodridge. No. 1,340,765; May 18; v. 274; p. 530.
Chain. E. Schneider. No. 1,327,925; Jan. 13; v. 270; p. 257.
Chain and belt connector and holder. L. Depew. No. 1,355,389; Oct. 12; v. 279; p. 238.
Chain, Antiskid-. E. Benjestorf. No. 1,344,477; June 22; v. 275; p. 744.
Chain, Antiskid-. F. A. Bower. No. 1,342,086; June 1; v. 275; p. 93.
Chain, Antiskid-. E. R. Klemm. No. 1,338,087; Apr. 27; v. 273; p. 656.
Chain, Antiskid-. M. Mager. No. 1,346,226; July 13; v. 276; p. 238.
Chain, Antiskid. W. Schwartz. No. 1,334,055; Mar. 16; v. 272; p. 468.
Chain, Antiskid-. E. F. White. No. 1,360,068; Nov. 23; v. 280; p. 712.
Chain attachment. E. J. Brooks. (Reissue.) No. 14,851; May 4; v. 274; p. 135.
Chain attachment, Antiskid-. M. C. Schow. No. 1,354,624; Oct. 5; v. 279; p. 86.
Chain, Automobile non-skid. E. H. Beaudreau. No. 1,327,369; Jan. 6; v. 270; p. 91.
Chain clamp and tightener. G. J. Weideman and J. H. Hughes. No. 1,349,702; Aug. 17; v. 277; p. 432.
Chain-clasp. T. J. Pollard and L. S. Darling. No. 1,360,678; Nov. 30; v. 280; p. 899.
Chain, Coal-cutting. F. J. Oakes. No. 1,332,745; Mar. 2; v. 272; p. 109.
Chain-connector. T. L. Avery. No. 1,350,952; Aug. 24; v. 277; p. 719.
Chain-connector. T. M. Avery. No. 1,364,018; Dec. 28; v. 281; p. 735.
Chain conveyer. C. L. Braley and C. E. Waream. No. 1,350,774; Aug. 24; v. 277; p. 686.
Chain-coupling. G. V. Mathias. No. 1,337,846; Apr. 20; v. 273; p. 541.
Chain coupling, Antiskid-. P. Arnolts. No. 1,342,016; June 8; v. 275; p. 248.
Chain, Drive-. E. J. De Ville. No. 1,358,942; Nov. 16; v. 280; p. 447.
Chain-driven wrench. W. Oringderff. No. 1,356,555; Oct. 26; v. 279; p. 553.
Chain, Driving-. E. Fuchs. No. 1,338,293; Apr. 27; v. 273; p. 695.
Chain, Eyeglass-. A. Scott. No. 1,346,559; July 13; v. 276; p. 305.
Chain-fastener. A. M. Evenson. No. 1,332,719; Mar. 2; v. 272; p. 104.
Chain-fastener. J. H. Hecker. No. 1,340,484; May 18; v. 274; p. 477.
Chain-fastener. C. A. Morehouse. No. 1,346,046; July 6; v. 276; p. 142.
Chain-fastener. R. Phillips. No. 1,330,341; Feb. 10; v. 271; p. 218.
Chain-fastening device. E. Johnson. No. 1,354,194; Sept. 28; v. 278; p. 628.
Chain, Harness-trace. E. P. Belz. No. 1,346,439; July 13; v. 276; p. 281.
Chain-hook. P. D. Thompson. No. 1,353,676; Sept. 21; v. 278; p. 480.
Chain, Link. F. C. Witt. No. 1,345,818; July 6; v. 276; p. 96.
Chain-links, Welding. C. W. H. von Eckermann. No. 1,357,156; Oct. 26; v. 279; p. 671.
Chain-lock. A. J. Cook. No. 1,334,133; Mar. 16; v. 272; p. 483.
Chain-lock. A. I. Varney. No. 1,337,419; Apr. 20; v. 273; p. 459.
Chain-making machine. E. C. Christie. No. 1,348,541; Aug. 3; v. 277; p. 80.
Chain-making machine. H. Weinacker. No. 1,340,639; May 18; v. 274; p. 507.
Chain, Mulshing-. J. Gordon. No. 1,335,052; Mar. 30; v. 272; p. 762.
Chain, Multiplate drive-. F. L. Morse. No. 1,352,017; Sept. 7; v. 278; p. 60.
Chain, Non-skid. J. Gaiser. No. 1,355,464; Oct. 12; v. 279; p. 253.
Chain, Non-skid. E. H. Hodges. No. 1,338,626; Apr. 27; v. 273; p. 756.
Chain, Non-skid. E. B. Howell. No. 1,329,838; Feb. 3; v. 271; p. 93.
Chain, Non-skid. J. F. Parker. No. 1,340,182; May 18; v. 274; p. 421.
Chain, Non-skid. J. F. Parker. No. 1,340,183; May 18; v. 274; p. 421.
Chain oxidation, Side-. V. Coblentz and H. W. Walker. No. 1,332,028; Feb. 24; v. 271; p. 624.

Digitized by Google

Chain-protector. W. Noess. No. 1,350,234; Aug. 17; v. 277; p. 534.
Chain-pulling device. W. E. Erway. No. 1,359,160; Nov. 16; v. 280; p. 487.
Chain-repair link. L. A. Weiss. No. 1,347,725; July 27; v. 276; p. 651.
Chain repair-links, Antiskid-. O. H. Butler. No. 1,338,851; May 4; v. 274; p. 37.
Chain, Silent. E. E. Bosworth. No. 1,363,034; Dec. 21; v. 281; p. 505.
Chain, Sprocket-. L. Bethke. No. 1,338,808; May 4; v. 274; p. 30.
Chain, Sprocket-. S. V. Tench. No. 1,348,189; Aug. 3; v. 277; p. 11.
Chain-tightener. A. C. Carlsen. No. 1,336,679; Apr. 13; v. 273; p. 244.
Chain-tightener. C. C. Gray. No. 1,348,168; Aug. 3; v. 277; p. 7.
Chain tightener and lock. G. Anderegg. No. 1,352,339; Sept. 7; v. 278; p. 120.
Chain tightener, Antiskid-. N. J. Mayland. No. 1,341,241; May 25; v. 274; p. 693.
Chain-tightener device. L. V. Uglow. No. 1,337,534; Apr. 20; v. 273; p. 482.
Chain tightener, Skid-. C. C. Allen. No. 1,344,472; June 22; v. 275; p. 743.
Chain, Track-. P. E. Holt. No. 1,344,398; June 22; v. 275; p. 727.
Chain, Track-. A. C. Johnson. No. 1,333,175; Mar. 9; v. 272; p. 241.
Chain tracks, Track-link for. C. F. Ball. No. 1,344,373; June 22; v. 275; p. 723.
Chain, Traction-. W. H. Kemper. No. 1,360,115; Nov. 23; v. 280; p. 721.
Chain-welding machine. S. Robinson. No. 1,362,897; Dec. 21; v. 281; p. 477.
Chain-welding machine. J. Senft. No. 1,360,034; Nov. 23; v. 280; p. 706.
Chains, Attachment for. S. V. Tench. No. 1,357,262; Nov. 2; v. 280; p. 12.
Chains, Fastener for traction-. D. Stump. No. 1,330,357; Feb. 10; v. 271; p. 221.
Chains, Fastening and take-up device for antiskid-. J. W. Jepson. No. 1,330,591; Feb. 10; v. 271; p. 264.
Chains, Fastening device for antiskid-. E. A. Tomlin. No. 1,344,778; June 29; v. 275; p. 868.
Chains, Machine for making links for. M. O. Rehfuss. No. 1,360,020; Nov. 23; v. 280; p. 702.
Chains, Machine for making links for. M. O. Rehfuss. No. 1,360,021; Nov. 23; v. 280; p. 703.
Chains, Making. F. Müller. No. 1,346,507; July 13; v. 276; p. 294.
Chains, Self-adjusting device for holding and tensioning antiskid-. F. L. Folwell. No. 1,338,646; Apr. 27; v. 273; p. 760.
Chains, Weld-testing device for. E. J. von Henke. No. 1,339,610; May 11; v. 274; p. 255.
Chair: *See*—

Adjustable chair.	Lunch-chair.
Auditorium-chair.	Opera-chair.
Barber-chair.	Porch-swing folding chair.
Barber's chair.	Rail-chair.
Bed-chair.	Reversible chair.
Bootblack-chair.	Revolving chair.
Boudoir-chair.	Rocking-chair.
Child's chair.	Screened chair.
Collapsible chair.	Ship's chair.
Combination-chair.	Spinal traction-chair.
Commode-chair.	Stepladder-chair.
Convertible chair.	Swing-chair.
Folding chair.	Theater-chair.
Hair-cutting chair.	Toy chair.
High chair.	Toy swinging chair.
Infant-chair.	

Chair. H. A. Atwood. No. 1,346,110; July 13; v. 276; p. 216.
Chair. H. A. Atwood. No. 1,346,932; July 20; v. 276; p. 437.
Chair. H. A. Atwood. No. 1,359,145; Nov. 16; v. 280; p. 484.
Chair. B. T. and H. J. Beckman. No. 1,344,255; June 22; v. 275; p. 699.
Chair. G. F. Conner and J. W. Dove. No. 1,361,446; Dec. 7; v. 281; p. 95.
Chair. J. R. Holliday. No. 1,350,021; Aug. 17; v. 277; p. 493.
Chair. A. W. Howell. No. 1,827,475; Jan. 6; v. 270; p. 111.
Chair. S. Kesselman. No. 1,335,973; Apr. 6; v. 273; p. 51.
Chair. J. W. Lang. No. 1,349,164; Aug. 10; v. 277; p. 253.
Chair. G. W. Martin. No. 1,339,068; May 4; v. 274; p. 78.
Chair. C. H. Morton. No. 1,360,776; Nov. 30; v. 280; p. 919.
Chair. J. V. Palmer. No. 1,357,469; Nov. 2; v. 280; p. 51.
Chair. H. Rowntree. No. 1,354,133; Sept. 28; v. 278; p. 615.
Chair. O. A. Shaw. No. 1,341,596; May 25; v. 274; p. 761.
Chair. G. L. Squire. No. 1,350,041; Aug. 17; v. 277; p. 497.
Chair. A. Wanner, Jr. No. 1,329,485; Feb. 3; v. 271; p. 27.
Chair adjustment. O. Elton. No. 1,335,884; Apr. 6; v. 273; p. 34.
Chair and bed, Combination. S. and I. Spector. No. 1,362,444; Dec. 14; v. 281; p. 337.
Chair and carriage, Collapsible baby and wheeling. D. L. Kohlman. No. 1,339,355; May 4; v. 274; p. 130.
Chair and carriage, Convertible. C. C. Gibson. No. 1,355,089; Oct. 5; v. 279; p. 117.
Chair and counter. G. Wright. No. 1,359,118; Nov. 16; v. 280; p. 479.
Chair and crib, Combination. C. A. Carlson. No. 1,359,671; Nov. 23; v. 280; p. 633.
Chair and ironing-board, Combination. G. Mohammed. No. 1,359,723; Nov. 23; v. 280; p. 643.
Chair and ladder, Combined. E. Budnyk. No. 1,348,474; Aug. 3; v. 277; p. 67.
Chair and table, Collapsible. M. Faix. No. 1,361,034; Dec. 7; v. 281; p. 11.
Chair and table, Combined folding. I. Stynkowic. No. 1,328,462; Jan. 20; v. 270; p. 395.
Chair and sofa, Combination. J. Shkor. No. 1,349,227; Aug. 10; v. 277; p. 265.
Chair and wardrobe, Combined. C. E. Melcher. No. 1,333,554; Mar. 9; v. 272; p. 313.
Chair attachment, Rocking-. P. Pietrobono. No. 1,346,675; July 13; v. 276; p. 327.
Chair-back, Adjustable. H. Shaw. No. 1,357,826; Nov. 2; v. 280; p. 119.
Chair-backs, Wrap-holder for. P. Bausano and J. W. Petaja. No. 1,355,643; Oct. 12; v. 279; p. 287.
Chair-base. C. J. Travers. No. 1,333,949; Mar. 16; v. 272; p. 447.
Chair-clamp. O. Bergstrom. No. 1,348,148; Aug. 3; v. 277; p. 3.
Chair-iron. H. W. Bolens. No. 1,330,427; Feb. 10; v. 271; p. 234.
Chair-iron. D. R. Collier. No. 1,336,509; Apr. 13; v. 273; p. 211.
Chair-iron. D. R. Collier. No. 1,336,510; Apr. 13; v. 273; p. 211.
Chair-iron. O. Elton. No. 1,335,883; Apr. 6; v. 273; p. 34.
Chair-iron. W. Loeffler. No. 1,334,660; Mar. 23; v. 272; p. 627.
Chair or bench, Auditorium, assembly-room, or theater. J. P. Satterlee. No. 1,352,415; Sept. 7; v. 278; p. 134.
Chair or couch, Folding. A. J. Freedman. No. 1,334,296; Mar. 23; v. 272; p. 559.
Chair-seat. J. P. Holland. No. 1,345,187; June 29; v. 275; p. 945.
Chair-tip. N. Stock. No. 1,356,797; Oct. 26; v. 279; p. 601.
Chair-tip. N. Stock. No. 1,356,798; Oct. 26; v. 279; p. 601.
Chairs, Adjustable footrest for high. E. E. and E. B. McClary. No. 1,334,771; Mar. 23; v. 272; p. 649.
Chairs, Adjustable headrest for barbers'. W. T. Switzer. No. 1,349,637; Aug. 17; v. 277; p. 419.
Chairs, Attachment for rocking-. J. B. Boyle. No. 1,345,745; July 6; v. 276; p. 82.
Chairs, Construction of wooden. B. Albergoli. No. 1,357,673; Nov. 2; v. 280; p. 89.
Chairs, Driving mechanism for auxiliary seats for. G. A. Bonelli. No. 1,359,786; Nov. 23; v. 280; p. 656.
Chairs, Pedestal-base for barber-. W. F. Koken. No. 1,337,608; Apr. 20; v. 273; p. 495.
Chairs, Seat-frame for barber-. W. F. Koken. No. 1,337,609; Apr. 20; v. 273; p. 495.
Chairs, Sheet-metal back for barber-. W. F. Koken. No. 1,361,387; Dec. 7; v. 281; p. 81.
Chairs, stools, &c., Back for. C. E. Pipp. No. 1,361,178; Dec. 7; v. 281; p. 39.
Chairs to floors, Means for detachably securing. J. A. Lambert. No. 1,335,842; Apr. 6; v. 273; p. 26.
Chairs, Traveling stool attachment for barbers'. E. W. Hoefener. No. 1,352,409; Sept. 7; v. 278; p. 132.
Chalcographic, typographic, and lithographic reproduction, Stereotype for. D. Motta. No. 1,331,119; Feb. 17; v. 271; p. 433.
Chalk, Cutting machine for tailors' soap-. H. N. Steinman. No. 1,333,740; Mar. 16; v. 272; p. 409.
Chalk-hanger. H. R. Hirst. No. 1,360,295; Nov. 30; v. 280; p. 825.
Chalk-holder. J. W. Darras. No. 1,332,481 Mar. 2; v. 272; p. 50.
Chalk-holder and powder-container, Combined magazine. J. G. Tyler. No. 1,334,724; Mar. 23; v. 272; p. 639.
Chalk-holder, Safety. J. G. Tyler. No. 1,334,723; Mar. 23; v. 272; p. 639.
Chalk-trough. C. F. Berger. No. 1,352,720; Sept. 14; v. 278; p. 231.
Chalk-trough, Combination. C. F. Berger. No. 1,352,721; Sept. 14; v. 278; p. 231.
Chamber, Combustion-. P. d'H. Dressler. No. 1,348,486; Aug. 3; v. 277; p. 69.
Change-counter. W. N. Dovener. No. 1,338,683; May 4; v. 274; p. 7.

Digitized by Google

Change-gear device. C. E. Frudden. No. 1,348,935; Aug. 10; v. 277; p. 208.
Change-making machine. E. C. Siqueira. No. 1,327,969; Jan. 13; v. 270; p. 264.
Change-speed mechanism. W. T. Sears. No. 1,342,928; June 8; v. 275; p. 311.
Change-speed mechanism. W. T. Walker. No. 1,342,195; June 1; v. 275; p. 115.
Changeable indicator. J. Hutchinson. No. 1,345,675; July 6; v. 276; p. 68.
Changeable sign. H. Kahn. No. 1,349,769; Aug. 17; v. 277; p. 445.
Channeler. H. H. Mercer. No. 1,363,004; Dec. 21; v. 281; p. 498.
Channeling-machines, Work-feeding mechanism for. F. E. Valois. No. 1,349,239; Aug. 10; v. 277; p. 268.
Chaplet. G. L. Waitt. No. 1,327,689; Jan. 13; v. 270; p. 213.
Character-plates, Making. M. Guett. No. 1,357,046; Oct. 26; v. 279; p. 650.
Charcoal, Impregnated. F. C. Atkinson. No. 1,361,131; Dec. 7; v. 281; p. 80.
Charcoal, Producing a highly-active decolorizing. A. Knöpfmacher. No. 1,358,162; Nov. 9; v. 280; p. 246.
Charcoal, Producing decolorizing. R. von Ostrejko. No. 1,362,064; Dec. 14; v. 281; p. 264.
Charge-forming device. F. D. and W. Q. Rector. No. 1,328,199; Jan. 13; v. 270; p. 308.
Chart. H. W. Hill. No. 1,351,332; Aug. 31; v. 277; p. 858.
Chart, Advertising record-. V. L. Cunnyngham. No. 1,348,349; Aug. 3; v. 277; p. 43.
Chart, Color-. C. A. Young. No. 1,326,005; Jan. 6; v. 270; p. 24.
Chart, Color-indicating. J. F. Kaufman. No. 1,351,661; Aug. 31; v. 277; p. 922.
Chart, Dental. A. J. Bush. No. 1,338,068; Apr. 27; v. 273; p. 652.
Chart, Educational. F. W. Walker. No. 1,352,042; Sept. 7; v. 278; p. 64.
Chart, Embroidery-. I. B. Nelson. No. 1,360,779; Nov. 30; v. 280; p. 919.
Chart for fountain-pens. W. E. Gerry. No. 1,351,564; Aug. 31; v. 277; p. 904.
Chart-holder. C. W. Babcock. No. 1,346,691; July 13; v. 276; p. 331.
Chart, Measuring-. C. E. Devers. No. 1,357,386; Nov. 2; v. 280; p. 35.
Chart, Mechanical. J. B. Aley. No. 1,335,708; Mar. 30; v. 272; p. 885.
Chart, Musical-instruction. C. R. McNeil. No. 1,338,236; Apr. 27; v. 273; p. 684.
Chart, Ship's position-plotting. F. E. Uttmark. No. 1,337,168; Apr. 13; v. 273; p. 337.
Chart, Tobacco-. W. B. Johnson. No. 1,331,567; Feb. 24; v. 271; p. 536.
Chart, Translating-. M. F. Charrier. No. 1,343,112; June 8; v. 275; p. 347.
Chart, Variable statistical. A. Crook. No. 1,360,726; Nov. 30; v. 280; p. 909.
Chaser. J. J. Flynn. No. 1,350,862; Aug. 24; v. 277; p. 702.
Chassis. C. W. Van Vleet and R. E. Haley. No. 1,345,421; July 6; v. 276; p. 19.
Chassis connection. R. F. Robinson. No. 1,334,714; Mar. 23; v. 272; p. 637.
Chat draw-off. O. P. Stanfield. No. 1,358,122; Nov. 9; v. 280; p. 238.
Check. D. F. Fesler. No. 1,343,865; June 15; v. 275; p. 560.
Check. C. E. Stone. No. 1,331,947; Feb. 24; v. 271; p. 608.
Check and receipt, Date and time service protective-perforation recording. A. N. E. Boos. No. 1,330,368; Feb. 10; v. 271; p. 223.
Check, Baggage-. R. L. Porter. No. 1,337,722; Apr. 20; v. 273; p. 517.
Check, Bank-. C. Churchill. No. 1,343,762; June 15; v. 275; p. 538.
Check, Bank-. J. Kopecky. No. 1,344,235; June 22; v. 275; p. 695.
Check, Bank-. J. L. Miller. No. 1,336,647; Apr. 13; v. 273; p. 238.
Check-book attachment. W. E. Abbott. No. 1,350,203; Aug. 17; vol. 277; p. 528.
Check-detector for check-actuated machines. A. D. Antoine and C. C. Travis. (Reissue.) No. 14,905; July 6; v. 276; p. 153.
Check, Door-. W. W. Albright. No. 1,338,205; Apr. 27; v. 273; p. 678.
Check, Door-. J. C. Schmidt. No. 1,339,479; May 11; v. 274; p. 230.
Check, Drop-cover. G. E. Rudnick. No. 1,338,939; Mar. 16; v. 272; p. 446.
Check, Fare-zone. G. H. Harris and W. P. Jackson. No. 1,356,621; Oct. 26; v. 279; p. 566.
Check-holder. J. T. Olive. No. 1,341,720; June 1; v. 275; p. 21.
Check holder, Sales-. T. R. F. Potter. No. 1,336,922; Apr. 13; v. 273; p. 291.
Check-holding device. A. Napolillo. No. 1,353,605; Sept. 21; v. 278; p. 466.
Check or order-slip, Waiter's. M. S. Miller. No. 1,358,280; Nov. 9; v. 280; p. 259.
Check, order, and commercial letter, Combined advance-discount voucher-. J. H. Camp. No. 1,343,110; June 8; v. 275; p. 347.
Check-perforator. J. Mints. No. 1,333,089; Mar. 9; v. 272; p. 226.
Check, Picker-. I. Snow. No. 1,328,018; Jan. 13; v. 270; p. 274.
Check-pocket. F. C. Franzen. No. 1,347,452; July 20; v. 276; p. 540.
Check-protecting machine. B. O. Fanslow. No. 1,333,105; Mar. 9; v. 272; p. 229.
Check-protecting machine. B. O. Fanslow. No. 1,333,106; Mar. 9; v. 272; p. 229.
Check-protecting machine. B. O. Fanslow. No. 1,333,108; Mar. 9; v. 272; p. 229.
Check-protecting machines, Feeding mechanism for. B. O. Fanslow. No. 1,333,107; Mar. 9; v. 272; p. 229.
Check-protector. W. B. Murtha. No. 1,356,548; Oct. 26; v. 279; p. 552.
Check-protector. H. J. Plant. No. 1,352,689; Sept. 14; v. 278; p. 224.
Check-protector. H. J. Plant. No. 1,352,691; Sept. 14; v. 278; p. 225.
Check-protector. J. W. Price. No. 1,363,916; Dec. 28; v. 281; p. 715.
Check-protector. C. R. Simms. No. 1,335,201; Mar. 30; v. 272; p. 790.
Check-protector. L. M. Todd. No. 1,335,207; Mar. 30; v. 272; p. 791.
Check, Traveler's. A. Lonson. No. 1,329,250; Jan. 27; v. 270; p. 572.
Check-turning device. E. Albaugh. No. 1,333,288; Mar. 9; v. 272; p. 262.
Check-valve mechanism, Automatic. M. B. Nye. No. 1,339,128; May 4; v. 274; p. 90.
Check, Waiter and sales. W. C. Dillingham. No. 1,356,050; Oct. 19; v. 279; p. 407.
Check-wire guide. E. H. Snyder. No. 1,358,342; Nov. 9; v. 280; p. 282.
Check-writer. G. W. Goetting. No. 1,358,146; Nov. 9; v. 280; p. 243.
Check-writer. L. E. Gronseth. No. 1,349,880; Aug. 17; v. 277; p. 466.
Check-writer. M. H. Johanson. No. 1,350,459; Aug. 24; v. 277; p. 625.
Check-writer. W. R. Mittendorf. No. 1,356,996; Oct. 19; v. 279; p. 396.
Check-writer. C. G. Tiefel. No. 1,353,437; Sept. 213; v. 278; p. 431.
Check-writer. L. M. Todd and C. G. Tiefel. No. 1,353,618; Sept. 21; v. 278; p. 468.
Check-writer. C. Wendelken. No. 1,340,429; May 18; v. 274; p. 468.
Check writer, Bank-. C. Wendelken. No. 1,340,428; May 18; v. 274; p. 467.
Check-writers, &c., Inking attachment for. J. Whitaker. No. 1,363,069; Dec. 21; v. 281; p. 511.
Check-writing machine. B. O. Fanslow. No. 1,337,006; Apr. 13; v. 273; p. 307.
Check-writing machine. E. F. O'Donnell and D. Erickson. No. 1,358,458; Nov. 9; v. 280; p. 306.
Check-writing machine. C. G. Tiefel. No. 1,350,428; Aug. 24; v. 277; p. 618.
Checks, Machine for protecting. C. E. Hasbrouck. No. 1,357,090; Oct. 26; v. 279; p. 658.
Checking apparatus, Night-watchman's. F. Aubry-Schaltenbrandt. No. 1,328,223; Jan. 13; v. 270; p. 318.
Checkwriter. M. H. Johanson. No. 1,329,606; Feb. 3; v. 271; p. 49.
Checkwriter. F. E. Jones. No. 1,334,540; Mar. 23; v. 272; p. 605.
Checkwriter. L. M. Todd and A. C. La May. No. 1,328,773; Jan. 20; v. 270; p. 453.
Checkwriter. N. White and C. G. Tiefel. No. 1,329,449; Feb. 3; v. 271; p. 20.
Checkwriting-machine. A. C. La May. No. 1,331,934; Feb. 24; v. 271; p. 606.
Cheese-box. E. Zeidler. No. 1,350,909; Aug. 24; v. 277; p. 711.
Cheese-container. C. H. Nowack. No. 1,359,731; Nov. 23; v. 280; p. 645.
Cheese-cutting machine. W. Faehndrich. No. 1,340,479; May 18; v. 275; p. 476.
Cheese-hoop. R. J. J. Mueller. No. 1,343,402; June 15; v. 275; p. 467.
Cheese, Making Emmenthal or Swiss. C. F. Doane. No. 1,334,693; Mar. 23; v. 272; p. 633.
Cheese, Sterilizing and packaging. J. L. Kraft. No. 1,350,870; Aug. 24; v. 277; p. 704.
Chemical-closet. F. B. Shafer. No. 1,343,287; June 15; v. 275; p. 444.
Chemical marker. A. E. Schmidt. No. 1,357,594; Nov. 2; v. 280; p. 74.
Chemical ware or technical apparatus and alloys for making same. F. A. Fahrenwald. No. 1,357,550; Nov. 2; v. 280; p. 65.
Chenille, Mechanism for and process of constructing. C. Lea. No. 1,328,570; Jan. 20; v. 270; p. 416.

Digitized by Google

Cherries and other fruits, Apparatus for removing pits from. M. D. Skinner. No. 1,363,680; Dec. 28; v. 281; p. 669.
Cherry-pitter. T. F. Morse. No. 1,336,852; Apr. 13; v. 273; p. 278.
Cherry-pitting machine. C. H. Marshall. No. 1,331,274; Feb. 17; v. 271; p. 460.
Chest. E. A. Heidtmann. No. 1,341,125; May 25; v. 274; p 670.
Chest and oven, Collapsible steam-. E. W. Howe. No. 1,328,152; Jan. 13; v. 270; p. 300.
Child's chair, Combination. G. W. Martin. No. 1,347,702; July 27; v. 276; p. 646.
Chilian mill, Multiple-process. C. C. Lane. No. 1,342,917; June 8; v. 275; p. 309.
Chill-mold. W. H. Nichols. No. 1,336,259; Apr. 6; v. 273; p. 105.
Chill-mold. W. H. Nichols. No. 1,336,260; Apr. 6; v. 273; p. 105.
Chime-mounting. L. D. Morris. No. 1,361,084; Dec. 7; v. 281; p. 21.
Chimney. R. S. Bassett. No. 1,337,746; Apr. 20; v. 273; p. 522.
Chimney. J. L. Freeman. No. 1,342,329; June 1; v. 275; p. 140.
Chimney and ash-pit, Combined. E. R. Morrison and H. P. Rodgers. No. 1,357,246; Nov. 2; v. 280; p. 9.
Chimney-cleaner. H. Harbort. No. 1,329,596; Feb. 3; v. 271; p. 47.
Chimney-cowl. M. Jezöva. No. 1,358,314; Nov. 9; v. 280; p. 276.
Chimney-cowl. J. T. Wait. No. 1,359,551; Nov. 23; v. 280; p. 610.
Chimney-cowl, Back-draft-preventing. M. Ciaccia. No. 1,343,763; June 15; v. 275; p. 538.
Chimney-heater. F. W. Pendergast. No. 1,343,745; June 15; v. 275; p. 535.
Chimney, Sectional. F. D. White. No. 1,347,980; July 27; v. 276; p. 702.
Chimneys or ventilator-stacks, Draft appliance for. A. Jones. No. 1,345,195; June 29; v. 275; p. 947.
China-burnishing machine. P. M. Disinger. No. 1,336,685; Apr. 13; v .273; p. 246.
China, Product imitating. C. Butty and F. Alvo. No. 1,351,617; Aug. 31; v. 277; p. 914.
Chiropractic table. A. A. Griffin. No. 1,337,311; Apr. 20; v. 273; p. 439.
Chiropractic table. A. A. Griffin. No. 1,337,312; Apr. 20; v. 273; p. 440.
Chiropractic-table adjustment. W. E. Rice. No. 1,360,580; Nov. 30; v. 280; p. 881.
Chiropractor's table. G. C. Oakes. No 1,339,038; May 4; v 274; p. 72.
Chisel, Cold-. G. A. Kissinger. No. 1,336,631; Apr. 13; v. 273; p. 235.
Chisel, Cold-. G. A. Kissinger. No. 1,343,323; June 15; v. 275; p. 451.
Chisel Cold-. W. T. Routh. No. 1,350,241; Aug. 17; v. 277; p. 535.
Chisel, Pneumatic. W. S. Whyte. No. 1,334,686; Mar. 23; v. 272; p. 632.
Chlorbenzol, Nitrating. R. Heyder. No. 1,330,074; Feb. 10; v. 271; p. 168.
Chlorid, Making carbonyl. S. Peacock. No. 1,360,312; Nov. 30; v. 280; p. 828.
Chlorid, Manufacture of potassium. E. E. Dutt. No. 1,332,114; Feb. 24; v. 271; p. 689.
Chlorid, Obtaining potassium. E. Anderson and F. S Moon, Jr. No. 1,354,642; Oct. 5; v. 279; p. 39.
Chlorid, Producing anhydrous aluminum. P. Danckwardt. No. 1,343,662; June 15; v. 275; p. 518.
Chlorid, Production and utilization of magnesium. G. H. Bailey and G. W. A. Foster. No. 1,331,688; Feb. 24; v. 271; p. 559.
Chlorids, Manufacture of metallic. W. Heap and E. Newbery. No. 1,331,257; Feb. 17; v. 271; p. 458
Chlorids, Process and apparatus for the electrolytic decomposition of. B. Cataldi. No. 1,336,281; Apr. 6; v. 273; p. 109.
Chlorin-cell. T. A. Patterson. No. 1,341,516; May 25; v. 274; p. 746.
Chlorin liquefaction. C. T. Henderson. No. 1,338,654; Apr. 27; v. 273; p. 762.
Chlorination process. A. E. Houlehan. No. 1,358,851; Nov. 16; v. 280; p. 429.
Chloroform, Manufacture of. M. Phillips. No. 1,358,099; Nov. 16; v. 280; p. 475.
Chloropicrin, Producing. R. J. King. No. 1,327,714; Jan. 13; v. 270; p. 217.
Chock, Safety-. C. P. Read. No. 1,336,442; Apr. 13; v. 273; p. 199.
Chocolate and candy machine. S. S. Marvin and W. Munz. No. 1,349,844; Aug. 17; v. 277; p. 459.
Chocolate-developing machinery. O. M. Stont. No. 1,349,235; Aug. 10; v. 277; p. 267
Chocolate to tables of wrapping-machines, Device for feeding tablets of. R. Leumann No. 1,330,639; Feb. 10; v. 271; p. 273.
Chopper: *See*—
Cotton-chopper. Stalk-chopper.
Hard-stock chopper.
Chopper, Hard-stock. C. W. Griffin. No. 1,363,778; Dec. 28; v. 281; p. 689.
Chopping attachment. G. N. Chenault. No. 1,336,727; Apr. 13; v. 273; p. 254.
Christmas-tree holder. N. Auslander. No. 1,334,880; Mar. 23; v. 272; p. 670.
Christmas tree, Knockdown. C. J. Carlstrand. No. 1,345,475; July 6; v. 276; p. 29.
Christmas-tree ornament. J. J. Gruenfeld, Jr. No. 1,349,374; Aug. 10; v. 277; p. 295.
Christmas-tree ornament. F. Langfelder. No. 1,329,615; Feb. 3; v. 271; p. 51.
Christmas-tree ornament and making same. W. R. Rudolph. No. 1,351,790; Sept. 7; v. 278; p. 14.
Chronograph, Projectile-velocity-measuring. F. I. du Pont. No. 1,357,281; Nov. 2; v. 280; p. 16.
Chronometer driving mechanism, Electromechanical. C. D. J. Jamin. No. 1,329,083; Jan. 27; v. 270; p. 541.
Chronometer-escapement. S. Tideman. No. 1,336,263; Apr. 6; v. 273; p. 106.
Chuck. F. E. Bright. No. 1,327,194; Jan. 6; v. 270; p. 59.
Chuck. T. J. Fegley. No. 1,330,111; Feb. 10; v. 271; p. 175.
Chuck. C. E. Gilbert. No. 1,352,951; Sept. 14; v. 278; p. 277.
Chuck. A. E. Hook. No. 1,359,992; Nov. 23; v. 280; p. 697.
Chuck. H. S. Hubbell. No. 1,328,627; Jan. 20; v. 270; p. 426.
Chuck. H. S. Hubbell. No. 1,338,775; May 4; v. 274; p. 24.
Chuck. A. J. Lavoie. No. 1,341,015; May 25; v. 274; p. 641
Chuck. E. J. McClellan. No. 1,334,772; Mar. 23; v. 272; p. 649.
Chuck. F. C. Palosky. No. 1,346,245; July 13; v. 276; p. 242.
Chuck. G. Reisinger. No. 1,348,740; Aug. 3; v. 277; p. 117.
Chuck. J. Warder. No. 1,356,574; Oct. 26; v. 279; p 557.
Chuck, Automatic reversible driving-. R. P. Tarbutton. No 1,341,085; May 25; v. 274; p. 663.
Chuck, Button-holding. P. F. Dusha and A. Feyk. No. 1,332,817; Mar. 2; v. 272; p. 123.
Chuck, Collet-. D. H. Lapointe. No. 1,359,077; Nov. 16; v. 280; p. 472.
Chuck, Drill-. C. L. Russell. No. 1,351,347; Aug. 31; v. 277; p. 861.
Chuck, Drill-. A. L. Strong. No. 1,340,845; May 18; v. 274; p 545.
Chuck, Drill-press. A. E. Church. No. 1,345,583; July 6; v. 276; p. 50.
Chuck, Eccentric. H. Elliott and E. B. Ainsworth. No. 1,355,757; Oct. 12; v. 279; p. 309.
Chuck, Electromagnetic. L. W. Dunbar. No. 1,339,553; May 11; v. 274; p. 244.
Chuck, Expansion-. C. Lea. No. 1,335,714; Mar. 30; v. 272; p. 886.
Chuck, Floating. C. Ungerman. No. 1,356,571; Oct. 26; v. 279; p. 556.
Chuck for holding drills, reamers, and the like. E. M. Smith and A. W. Winsall. No. 1,343,795; June 15; v. 275; p. 545.
Chuck, Gear-holding. A. B. Bolender. No. 1,330,998; Feb. 17; v. 271; p. 410.
Chuck, Lathe-. H. Spillmann. No. 1,350,746; Aug. 24; v. 277; p. 681.
Chuck, Magnetic. J. L. Moran. No. 1,349,343; Aug. 10; v. 277; p. 288.
Chuck, Magnetic. H. J. Sweet. No. 1,360,054; Nov. 23; v. 280; p. 709.
Chuck, Magnetic. O. S. Walker. No. 1,329,733; Feb. 3; v. 271; p. 72.
Chuck, Universal variable. C. G. Cashman. No 1,357,843; Nov. 2; v. 280; p. 123.
Chucks, Adjustable V-block for magnetic. F. L. Simmons. No. 1,343,751; June 15; v. 275; p. 536.
Chucks, Method and apparatus for alining work on V-blocks for magnetic. F. L. Simmons. No. 1,336,928; Apr. 13; v. 273; p. 293.
Chucks, Parallel bars for magnetic. F. L. Simmons. No. 1,330,558; Feb. 10; v. 271; p. 258.
Churn. H. Christensen. No. 1,344,937; June 29; v. 275; p. 898.
Churn. A. Lapka. No. 1,337,777; Apr. 20; v. 273; p 528.
Churn. D. T. Lowe. No. 1,340,491; May 18; v. 274; p. 479.
Churn. W. T. Miller. No. 1,363,143; Dec. 21; v. 281; p. 526.
Churn. J. J. Russell. No. 1,359,277; Nov. 16; v. 280; p. 509.
Churn. P. R. Thibault. No. 1,359,634; Nov. 23; v. 280; p. 625.
Churn. R. A. Thompson and L. P. Morris. No. 1,340,466; May 18; v. 274; p. 474.
Churn. G. P. A. Weisenborn. No. 1,337,864; Apr. 20; v. 544.
Churn. W. W. Wilson. No. 1,333,860; Mar. 9; v. 272; p. 276.
Churn-operating devices, Hydraulic motor for. A. Roos. No. 1,338,399; Apr. 27; v. 273; p. 714.
Churn, Rotary. F. A. and L. L. Porter. No. 1,355,000; Oct. 5; v 279; p. 109.

Digitized by Google

Alphabetical list of inventions—Continued.

Churn, Sanitary. J. T. Campbell. No. 1,344,022; June 22; v. 275; p. 654.
Churn-support. M. C. Kennerly. No. 1,337,362; Apr. 20; v. 273; p. 449.
Churns and butter-workers, Actuating mechanism for combined. T. L. Valerius and O. Larsen. No. 1,335,624; Mar. 30; v. 272; p. 869.
Churning device. H. W. Jester. No. 1,348,496; Aug. 3; v. 277; p. 71.
Churning device. R. A. Thompson and L. P. Morris. No. 1,343,532; June 15; v. 275; p. 493.
Chute for loading and unloading live stock, especially hogs and sheep. W. H. McGinnis and C. H. Baxter. No. 1,332,132; Feb. 24; v. 271; p. 642.
Chute, Conveyer-. T. Brown. No. 1,355,308; Oct. 12; v. 279; p. 223.
Chute, End. A. G. Fragner. No. 1,354,817; Oct. 5; v. 279; p. 74.
Chute, Silo-. C. F. Schaffner. No. 1,329,801; Feb. 3; v. 271; p. 85.
Chute, Spiral. P. C. Wego. No. 1,353,873; Sept. 28; v. 278; p. 562.
Chute, Stock-loading. J. R. Raplee. No. 1,345,238; June 29; v. 275; p. 955.
Cigar. E. L. Couch and G. H. Conners. No. 1,349,147; Aug. 10; v. 277; p. 249.
Cigar and cigarette box. J. Kostka. No. 1,345,935; July 6; v. 276; p. 120.
Cigar-box attachment. G. D. Bremner. No. 1,331,314; Feb. 17; v. 271; p. 467.
Cigar-bunches. Machine for applying paper molds to. L. R. Gindrat. No. 1,343,125; June 8; v. 275; p. 350.
Cigar-drill. R. R. Bailey. No. 1,345,736; July 6; v. 276; p. 80.
Cigar-holder. W. H. Bridges. No. 1,347,204; July 20; v. 276; p. 490.
Cigar-holder. O. A. Pickett. No. 1,335,698; Mar. 30; v. 272; p. 883.
Cigar holder and saver. J. Skinderviken. No. 1,342,512; June 8; v. 275; p. 29.
Cigar-lighter. D. B. Clark. No. 1,362,227; Dec. 14; v. 281; p. 296.
Cigar-lighter. M. A. Hemsing. No. 1,328,516; Jan. 20; v. 270; p. 405.
Cigar-lighter. N. N. Hill. No. 1,330,941; Feb. 17; v. 271; p. 399.
Cigar-lighter. M. Spinello. No. 1,359,469; Nov. 16; v. 280; p. 549.
Cigar-lighter. T. Van Aller. No. 1,328,466; Jan. 20; v. 270; p. 396.
Cigar-lighter, Electric. C. F. Cuno. No. 1,346,868; July 13; v. 276; p. 267.
Cigar-lighter, pipe-lighter, and the like, Electric. R. J. H. Hill. No. 1,340,716; May 18; v. 274; p. 521.
Cigar-lighter tip, Electric. F. H. Hart. No. 1,359,369; Nov. 16; v. 280; p. 528.
Cigar-lighters, &c., Automatic switch for. C. F. Cuno. No. 1,355,948; Oct. 19; v. 279; p. 886.
Cigar-lighters, Switch for. C. F. Cuno. No. 1,342,015; June 1; v. 275; p. 79.
Cigar or cigarette holders, Receptacle for. A. Dunhill. No. 1,345,356; July 6; v. 276; p. 6.
Cigar-package. M. and H. Jacobstein. No. 1,358,956; Nov. 16; v. 280; p. 450.
Cigar-piercer. P. Zera. No. 1,349,248; Aug. 10; v. 277; p. 270.
Cigar-pouch. I. L. Stern. No. 1,335,454; Mar. 30; v. 272; p. 837.
Cigar-slitting attachment. W. N. Jackson. No. 1,345,677; July 6; v. 276; p. 68.
Cigar-tip cutter. C. Berberich. No. 1,336,724; Apr. 13; v. 273; p. 253.
Cigar-wrappers from tobacco-stems, Machine for making. W. J. Goodfellow. No. 1,332,252; Mar. 2; v. 272; p. 14.
Cigar-wrappers, Making. W. J. Goodfellow. No. 1,338,827; May 4; v. 274; p. 33.
Cigarette. J. Richter. No. 1,338,529; Apr. 27; v. 273; p. 730.
Cigarette and match container. E. H. Anshelm. No. 1,333,695; Mar. 16; v. 272; p. 400.
Cigarette and vanity case, Combined. M. A. Miller. No. 1,342,178; June 1; v. 275; p. 111.
Cigarette-box. J. J. Langan. No. 1,352,613; Sept. 14; v. 278; p. 209.
Cigarette-box. A. Mendelson. No. 1,333,989; Mar. 16; v. 272; p. 455.
Cigarette-box. J. Nierodka. No. 1,361,893; Dec. 14; v. 281; p. 229.
Cigarette-box. M. Todoroff. No. 1,356,671; Oct. 26; v. 279; p. 576.
Cigarette-case. C. T. Guy No. 1,332,827; Mar. 2; v. 272; p. 125.
Cigarette-case. B. F. Hunsiker. No. 1,354,042; Sept. 28; v. 278; p. 597.
Cigarette-case. W. Silverman. No. 1,334,717; Mar. 23; v 272; p. 638.
Cigarette-cases, Manufacture of. J. C. Gunn. No. 1,344,506; June 22; v. 275; p. 749.
Cigarette-holder. W. Hahn. No. 1,355,666; Oct. 12; v. 279; p. 292.
Cigarette-holder. H. H. Harnsberger. No. 1,359,803; Nov. 23; v. 280; p. 659.
Cigarette-holder. L. V. Redman, A. J. Weith, and F. P. Brock. No. 1,342,868; June 8; v. 275; p. 299.
Cigarette-machines, Cutting attachment for. F. C. Schofield. No. 1,348,057; July 27; v. 276; p. 718.
Cigarette, match, and coin case, Waterproof combination. C. J. Eckert and P. J. Richman. No. 1,328,988; Jan. 27; v. 270; p. 523.
Cigarette or cigar box and match-containing means therefor, Combined. T. J. Magnuson. No. 1,329,916; Feb. 3; v. 271; p. 107.
Cigarette-package. J. J. Fleming. No. 1,329,757; Feb. 3; v. 271; p. 77.
Cigarette-paper. R. J. Morley. No. 1,363,989; Dec. 28; v. 281; p. 729.
Cigarette-papers, Case for holding. J. W. Davis. No. 1,341,974; June 1; v. 275; p. 71.
Cigarette pouch-package. G. W. Hill. No. 1,344,635; June 29; v. 275; p. 840.
Cigarette, Self-lighting. M. S. Brown. No. 1,327,139; Jan. 6; v. 270; p. 49.
Cigarettes and like articles, Box for. H. H. Lewis. No. 1,341,857; June 1; v. 275; p. 48.
Cigarettes, Device for making and forming. H. J. Mondor. No. 1,363,895; Dec. 28; v. 281; p. 711.
Cigarettes from their cases, Means for facilitating the withdrawal of. A. McKellar. No. 1,347,816; July 27; v. 276; p. 669.
Cinder-guard. C. M. Denison. No. 1,333,063; Mar. 9; v. 272; p. 221.
Cinemas, theaters, &c. Fixed seats for use in. P. Cornish. No. 1,351,995; Sept. 7; v. 278; p. 56.
Cinematograph. L. Janot. No. 1,357,566; Nov. 2; v. 280; p. 68.
Cinematograph. R. B. Michalek. No. 1,350,374; Aug. 24; v. 277; p. 608.
Cinematograph-film. L. Sawyer. No. 1,356,223; Oct. 19; v. 279; p. 442.
Cinematograph-film and making same. J. E. Thornton. No. 1,361,783; Dec. 7; v. 281; p. 160.
Cinematograph-film spool. A. Laban. No. 1,330,325; Feb. 10; v. 271; p. 214.
Cinematograph-film spool, Friction braking means for. W. A. Graham. No. 1,340,710; May 18; v. 274; p. 520.
Cinematograph-machine. M. E. Myers and M. A. J. Harper. No. 1,357,076; Oct. 26; v. 279; p. 656.
Cinematograph-machine shutter. E. Tassie. No. 1,338,596; Apr. 27; v. 273; p. 751.
Cinematograph-projectors, Safety-shutter for. A. H. Willmann. No. 1,361,430; Dec. 7; v. 281; p. 91.
Cinematograph-shutter. A. Van Wormer. No. 1,342,076; June 1; v. 275; p. 91.
Cinematograph-target. H. B. Thompson. No. 1,334,975; Mar. 30; v. 272; p. 747.
Cinematographic apparatus, Portable. C. Bancarel. No. 1,349,650; Aug. 17; v. 277; p. 421.
Cinematographic process. G. de L. Presicce. No. 1,358,110; Nov. 9; v. 280; p. 236.
Cinematographic projection apparatus, Means for lubricating. G. Thevenin. No. 1,363,290; Dec. 28; v. 281; p. 595.
Cinematographic target. H. F. Franklin. No. 1,328,275; Jan. 20; v. 270; p. 359.
Cinematographic target, Control-switch for. W. P. Robertson. No. 1,351,443; Aug. 31; v. 277; p. 879.
Cinematographic targets, Film-reel brake for. W. B. Robertson. No. 1,334,966; Mar. 30; v. 272; p. 746.
Cinematography, Apparatus for color. P. D. Brewster. No. 1,359,025; Nov. 16; v. 280; p. 462.
Cinematography, Color. P. D. Brewster. No. 1,359,024; Nov. 16; v. 280; p. 462.
Cinematography, Color. F. W. Donisthorpe. No. 1,350,143; Aug. 17; v. 277; p. 516.
Ciphering system. L. F. Morehouse. No. 1,356,546; Oct. 26; v. 279; p. 552.
Circle-spacing device. H. R. Heyman. No. 1,344,587; June 22; v. 275; p. 766.
Circles of given diameters, Device for quickly tracing. N. B. Costovici. No. 1,341,457; May 25; v. 274; p. 735.
Circuit-breaker. I. W. Broegger. No. 1,338,971; May 4; v. 274; p. 59.
Circuit-breaker. N. J. Conrad. No. 1,336,069; Apr. 6; v. 273; p. 69.
Circuit-breaker. C. T. Evans. No. 1,360,280; Nov. 30; v. 280; p. 822.
Circuit-breaker. T. Midgley, Jr. No. 1,337,366; Apr. 20; v. 273; p. 449.
Circuit-breaker. L. W. Mulvey. No. 1,329,469; Feb. 3; v. 271; p. 24.
Circuit-breaker. F. W. Roller. No. 1,339,981; May 11; v. 274; p. 325.
Circuit-breaker. F. W. Roller. No. 1,341,678; June 1; v. 275; p. 13.
Circuit-breaker. A. Simon. No. 1,330,094; Feb. 10; v. 271; p. 172.
Circuit-breaker, Automatic. R. D. Smith. No. 1,328,460; Jan. 20; v. 270; p. 394.
Circuit-breaker, Automatically-reclosing. E. C. Raney. No. 1,363,814; Dec. 28; v. 281; p. 696.
Circuit-breaker, Float-operated. W. Zebell. No. 1,336,269; Apr. 6; v. 273; p. 107.
Circuit-breaker-indicating device. C. F. Kettering. No. 1,336,142; Apr. 6; v. 273; p. 83.

Digitized by Google

Circuit-breaker-indicating device. C. F. Kettering. No. 1,336,143; Apr. 6; v. 273; p. 83.
Circuit-breaker, No-fire. J. H. Kruse. No. 1,331,650; Feb. 24; v. 271; p. 552.
Circuit-breaker, Shock-proof. H. J. Schmid. No. 1,355,511; Oct. 12; v. 279; p. 262.
Circuit-breaker structure, Shockproof. W. M. Scott. No. 1,340,564; May 18; v. 274; p. 493.
Circuit-breaker terminal. G. N. Frey. No. 1,332,172; Feb. 24; v. 271; p. 649.
Circuit-breaking apparatus. N. J. Conrad. No. 1,335,045; Mar. 30; v. 272; p. 761.
Circuit-breaking apparatus, Overload-. E. O. Schweitzer. No. 1,340,917; May 25; v. 274; p. 630.
Circuit-breaking apparatus, Overload-. E. O. Schweitzer. (Reissue.) No. 14,881; June 8; v. 275; p. 363.
Circuit-closer. A. F. Beimdiek. No. 1,354,875; Oct. 5; v. 279; p. 85.
Circuit-closer. J. D. Clay. No. 1,348,208; Aug. 3; v. 277; p. 15.
Circuit-closer. C. W. Squires. No. 1,341,347; May 25; v. 274; p. 713.
Circuit-closer, Automatic. B. Golbin. No. 1,351,207; Aug. 31; v. 277; p. 832.
Circuit-closer, Cam-operated. H. McNicholas. No. 1,342,591; June 8; v. 275; p. 244.
Circuit-closer, Fire-alarm. T. Matthews. No. 1,332,469; Mar. 2; v. 272; p. 56.
Circuit-closer, Float-operated. M. H. Toland. No. 1,339,239; May 4; v. 274; p. 109.
Circuit-closer, Fluid-pressure. T. E. Braseal. No. 1,338,896; May 4; v. 274; p. 45.
Circuit-closer for liquid-level indicators. G. E. Mills. No. 1,337,252; Apr. 20; v. 273; p. 428.
Circuit-closer, Lock-operated. W. B. Garrett and H. M. Hoffman. No. 1,346,087; July 6; v. 276; p. 150.
Circuit-closer, Lock-operated. D. L. Gordon. No. 1,347,506; July 27; v. 276; p. 607.
Circuit-closer, Selective. J. P. Wahlstrom. No. 1,327,505; Jan. 6; v. 270; p. 116.
Circuit-closer, Shade. J. Havran. No. 1,358,636; Nov. 9; v. 280; p. 341.
Circuit-closer, Speed-operated. F. E. Touchy. No. 1,346,067; July 6; v. 276; p. 146.
Circuit-closer, Thermal. H. Sieben and B. C. Haldeman. No. 1,340,919; May 25; v. 274; p. 630.
Circuit-closer, Thermal. W. P. Webber. No. 1,343,808; June 15; v. 275; p. 547.
Circuit-closer, Thermal. C. E. Wiren. No. 1,342,317; June 1; v. 275; p. 137.
Circuit-closer, Thermostatic. M. Moloney. No. 1,330,892; Feb. 17; v. 271; p. 389.
Circuit-closer, Weight-operated. C. H. McNeil. No. 1,358,057; Sept. 14; v. 278; p. 298.
Circuit-closers, Float-operated. G. W. Washington. No. 1,343,947; June 22; v. 275; p. 640.
Circuit-connector. C. Bramming. No. 1,332,379; Mar. 2; v. 272; p. 40.
Circuit-continuing device. H. A. Douglas. No. 1,347,737; July 27; v. 276; p. 654.
Circuit-continuing device. H. A. Douglas. No. 1,348,394; Aug. 3; v. 277; p. 52.
Circuit-continuing device. H. A. Douglas. No. 1,348,395; Aug. 3; v. 277; p. 52.
Circuit-controller. A. D. Brown. No. 1,361,006; Dec. 7; v. 281; p. 5.
Circuit-controller. C. T. Henderson. No. 1,339,456; May 11; v. 274; p. 225.
Circuit-controller. W. S. Henry. No. 1,332,215; Mar. 2; v. 272; p. 7.
Circuit-controller. A. J. Horton. No. 1,347,859; July 27; v. 276; p. 678.
Circuit-controller. J. Lynn. No. 1,361,077; Dec. 7; v. 281; p. 19.
Circuit-controller. W. S. Morse. No. 1,351,184; Aug. 31; v. 277; p. 847.
Circuit-controller. J. M. Waldron and J. P. Coleman. No. 1,362,205; Dec. 14; v. 281; p. 292.
Circuit-controller. A. F. Williams. No. 1,350,759; Aug. 24; v. 277; p. 683.
Circuit-controller, Thermal. N. and N. Nishi. No. 1,348,514; Aug. 3; v. 277; p. 74.
Circuit-controller, Time-controlled. G. L. Hall. No. 1,362,299; Dec. 14; v. 281; p. 310.
Circuit-controlling apparatus. J. M. Andersen. No. 1,332,020; Feb. 24; v. 271; p. 622.
Circuit-controlling device. P. F. Shivers. No. 1,357,734; Nov. 2; v. 280; p. 101.
Circuit-controlling device, Electric-. S. E. Woodbury. No. 1,331,038; Feb. 17; v. 271; p. 418.
Circuit-controlling device, Selectively-operated. J. C. Field. No. 1,343,256; June 15; v. 275; p. 439.
Circuit-controlling mechanism. I. W. Broegger. No. 1,336,418; Aug. 13; v. 273; p. 195.
Circuit-controlling mechanism. A. de Khotinsky. No. 1,350,369; Aug. 24; v. 277; p. 606.
Circuit, Electric. P. C. Hewitt. No. 1,328,826; Jan. 20; v. 270; p. 369.
Circuit for repeaters equipped with automatic network-selectors, Testing-. C. S. Demerest. No. 1,356,897; Oct. 19; v. 279; p. 377.
Circuit, Four-wire. J. Mills. No. 1,352,828; Sept. 14; v. 278; p. 253.
Circuit-interrupter. L. W. Chubb. No. 1,341,631; June 1; v. 275; p. 4.
Circuit-interrupter. F. B. Holt. No. 1,327,825; Jan. 13; v. 270; p. 238.
Circuit-interrupter. F. B. Holt. No. 1,335,113; Mar. 30; v. 272; p. 774.
Circuit interrupter. W. O. Lum. No. 1,352,462; Sept. 14; v. 278; p. 179.
Circuit-interrupter. H. G. MacDonald. No. 1,330,598; Feb. 10; v. 271; p. 265.
Circuit-interrupter. K. C. Randall. No. 1,327,777; Jan. 13; v. 270; p. 229.
Circuit-interrupter. J. Slepian. No. 1,338,334; Apr. 27; v. 273; p. 703.
Circuit-interrupting device, Automatic. A. du Pasquier and J. M. L. Slater. No. 1,347,908; July 27; v. 276; p. 688.
Circuit-interrupting system. S. Q. Hayes. No. 1,352,451; Sept. 14; v. 278; p. 176.
Circuit, Listing-. J. F. Toomey. No. 1,360,332; Nov. 30; v. 280; p. 832.
Circuit-lock. W. F. Rotermund. No. 1,339,003; May 4; v. 274; p. 65.
Circuit mechanism, Automatic. C. F., C. G., L. K., and J. T. Redmon. No. 1,357,900; Nov. 2; v. 280; p. 133.
Circuit system, Non-grounded or metallic line-. R. H. Burfeind. No. 1,330,999; Feb. 17; v. 271; p. 411.
Circuits, Duplex translating-. J. R. Carson. No. 1,343,306; June 15; v. 275; p. 448.
Circuits, Duplex translating-. J. R. Carson. No. 1,343,307; June 15; v. 275; p. 448.
Circuits, Duplex translating-. J. R. Carson. No. 1,343,308; June 15; v. 275; p. 448.
Circuits for high distortion lines, Correcting. W. H. Martin. No. 1,347,049; July 20; v. 276; p. 461.
Circuits for toll-switching trunks, Holding-. O. H. Loynes. No. 1,359,516; Nov. 23; v. 280; p. 602.
Circuits, Plural demodulation-. H. S. Osborne. No. 1,361,487; Dec. 7; v. 281; p. 103.
Circuits, Regulating system for alternating-current. R. F. W. Alexanderson. No. 1,337,875; Apr. 20; v. 273; p. 546.
Circuits, Regulating system for alternating-current. L. W. Thompson. No. 1,337,854; Apr. 20; v. 273; p. 542.
Circuits, Regulating system for alternating-current. L. W. Thompson. No. 1,337,855; Apr. 20; v. 273; p. 542.
Circuits, Repeater-. G. Crisson. No. 1,353,637; Sept. 21; v. 278; p. 472.
Circuits, Reverse-phase relay for use in connection with polyphase alternating-current. E. L. Gale, Sr. No. 1,339,192; May 4; v. 274; p. 100.
Circuits, Ringing-tone. F. M. Slough. No. 1,354,347; Sept. 28; v. 278; p. 658.
Circuits, Testing and adjusting apparatus for cord-. J. F. Toomey. No. 1,360,331; Nov. 30; v. 280; p. 832.
Circuits, Testing and adjusting apparatus for cord-. J. F. Toomey. No. 1,361,928; Dec. 14; v. 281; p. 236.
Circuits, Testing and monitoring equipment for repeater-. C. S. Demerest. No. 1,355,898; Oct. 19; v. 279; p. 377.
Circuits with monophase current, Feeding polyphase-current. H. Gutswiller. No. 1,347,457; July 20; v. 276; p. 541.
Clam-digger. A. W. Crago. No. 1,336,208; Apr. 6; v. 273; p. 94.
Clamp: *See*—
Adjustable clamp.
Adjustable rigid clamp.
Auto-hood clamp.
Automobile-bumper clamp.
Bag closure or mouth clamp.
Batten-clamp.
Beam-clamp.
Bench-clamp.
Burial-vault clamp.
Cable-clamp.
Chair-clamp.
Column-form, shore, and scaffold clamp.
Concrete-form clamp.
Coupling-clamp.
Dental clamp.
Double clamp.
Electric terminal clamp.
Electrical clamp.
Fabric-clamp.
Fencepost-clamp.
Fish-clamp.
Floor-clamp.
Guide-clamp.
Heel-clamp.
Hinged clamp.
Hose-clamp.
Insulator-clamp.
Joiner's clamp.
Lifting-clamp.
Line-clamp.
Metal clamp.
Miter-clamp.
Miter-frame clamp.
Pipe-clamp.
Piston-ring clamp.
Plate-clamp.
Portable clamp.
Printing-plate clamp.
Puller-clamp.
Quick-acting clamp.
Rail-clamp.
Rod-splicing clamp.
Rope-clamp.
Saw-filing clamp.
Scaffolding-framework clamp.
Screw-clamp.
Shaft-clamp.
Shelf-clamp.
Shifting-plate clamp.
Shuttle-clamp.
Sleeve-clamp.
Squaring-clamp.
Thimble-clamp.
Tire-clamp.
Tool-clamp.
Trolley-clamp.
Trolley-wire clamp.
Transmission-drum clamp.
Tube-clamp.
Warp-clamp.
Warp-stop-motion clamp.
Wire-clamp.
Wire and cable clamp.
Wire-fence clamp.
Wire-line clamp.
Wire-line-drilling clamp.
Wire-rope clamp.
Work-clamp.
Work-holding clamp.

Digitized by Google

Clamp. W. Bartholomew. No. 1,361,956; Dec. 14; v. 281; p. 242.
Clamp. A. Coons. No. 1,353,682; Sept. 21; v. 278; p. 471.
Clamp. I. Cooper. No. 1,362,784; Dec. 21; v. 281; p. 456.
Clamp. J. P. Dolan. No. 1,349,331; Aug. 10; v. 277; p. 286.
Clamp. C. Drake. No. 1,363,852; Dec. 28; v. 281; p. 703.
Clamp. W. D. Ferguson. No. 1,331,491; Feb. 24; v. 271; p. 521.
Clamp. W. R. Fontaine. No. 1,346,947; July 20; v. 276; p. 441.
Clamp. S. Gaul. No. 1,356,136; Oct. 19; v. 279; p. 425.
Clamp. O. H. Hunt. No. 1,352,810; Sept. 14; v. 278; p. 250.
Clamp. T. H. Kane. No. 1,332,442; Mar. 2; v. 272; p. 51.
Clamp. S. R. Libbey. No. 1,351,772; Sept. 7; v. 278; p. 11.
Clamp. A. Link. No. 1,339,830; May 11; v. 274; p. 297.
Clamp. G. More. No. 1,342,563; June 8; v. 275; p. 239.
Clamp. B. Northup. No. 1,332,566; Mar. 2; v. 272; p. 75.
Clamp. R. G. Parsons. No. 1,362,540; Dec. 14; v. 281; p. 356.
Clamp. G. W. Pelton. No. 1,359,524; Nov. 23; v. 280; p. 604.
Clamp. H. Rinn, Jr. No. 1,361,548; Dec. 7; v. 281; p. 116.
Clamp. C. H. Schub. No. 1,350,084; Aug. 17; v. 277; p. 505.
Clamp. C. E. Shappat. No. 1,359,539; Nov. 23; v. 280; p. 607.
Clamp. C. F. Spery. No. 1,330,355; Feb. 10; v. 271; p. 220.
Clamp. I. E. Tatum. No. 1,331,292; Feb. 17; v. 271; p. 464.
Clamp. A. Waelty. No. 1,342,362; June 1; v. 275; p. 146.
Clamp. A. H. Weston and R. H. Peters. No. 1,336,667; Apr. 13; v. 273; p. 241.
Clamp. W. B. Wigle. No. 1,342,141; June 1; v. 275; p. 104.
Clamp and cutter actuating mechanism. H. E. Houseman. No. 1,359,250; Nov. 16; v. 280; p. 504.
Clamp and fastener, Combined. C. C. Salmons and J. Mahoney. No. 1,352,919; Sept. 14; v. 278; p. 271.
Clamp-bolt. E. J. Ruquet, Jr. No. 1,343,089; June 8; v. 275; p. 343.
Clamp device. H. I. Rosenblum. No. 1,349,225; Aug. 10; v. 277; p. 265.
Clamp for placing springs in spring-casings. H. Rinn, Jr. No. 1,358,878; Nov. 16; v. 280; p. 435.
Clamp-socket, Portable. R. C. Mitchell. No. 1,360,133; Nov. 23; v. 280; p. 725.
Clamp-tank, Knockdown. J. F. A. Deck. No. 1,341,549; May 25; v. 274; p. 752.
Clamp-terminal. M. A. Allison. No. 1,361,806; Dec. 14; v. 281; p. 212.
Clamping-bench. W. H. Norris. No. 1,361,284; Dec. 7; v. 281; p. 60.
Clamping device. S. S. Fuller. No. 1,345,358; July 6; v. 276; p. 6.
Clamping device. M. J. Maguth. No. 1,352,296; Sept. 7; v. 278; p. 112.
Clamping device. J. Ruoff. No. 1,337,484; Apr. 20; v. 273; p. 471.
Clamping device, Work-. E. Phipps. No. 1,363,433; Dec. 28; v. 281; p. 621.
Clamping machine, Quick-acting frame-. O. Bergstrom. No. 1,342,891; June 8; v. 275; p. 304.
Clamping mechanism. H. Johansen. No. 1,355,082; Oct. 5; v. 279; p. 126.
Clamping mechanism, Tailstock-. S. W. Putnam, 3d. No. 1,327,356; Jan. 6; v. 270; p. 88.
Clarifier, Centrifugal. A. M. del Valle. No. 1,350,009; Aug. 17; v. 277; p. 491.
Clarinet-holder. J. E. Smith. No. 1,342,136; June 1; v. 275; p. 103.
Clarinet key system. J. C. Fleming. No. 1,328,831; Jan. 27; v. 270; p. 492.
Clasp: *See*—
- Belt-clasp.
- Button-clasp.
- Chain-clasp.
- Collar-clasp.
- Envelop-clasp.
- Garment-clasp.
- Garment-supporting clasp.
- Jewelry-clasp.
- Lingerie-clasp.
- Napkin-clasp.
- Necklace-clasp.
- Necktie-clasp.
- Paper-fastening clasp.
- Printing-plate clasp.
- Veil-clasp.
- Watch-clasp.

Clasp. A. Cornu. No. 1,350,785; Aug. 24; v. 277; p. 688.
Clasp. A. Giardino. No. 1,344,500; June 22; v. 275; p. 748.
Clasp. E. L. Gundlach. No. 1,345,171; June 29; v. 275; p. 942.
Clasp. L. B. Hochstein. No. 1,345,183; June 29; v. 275; p. 945.
Clasp. C. G. Hultman and H. Wachenheimer. No. 1,342,048; June 1; v. 275; p. 85.
Clasp. J. S. Johnson. No. 1,363,655; Dec. 28; v. 281; p. 665.
Clasp. P. W. Murray. No. 1,340,284; May 18; v. 274; p. 439.
Clasp. D. L. Passage. No. 1,344,816; June 29; v. 275; p. 875.
Clasp. J. C. Sanders. No. 1,340,985; May 25; v. 274; p. 644.
Clasp. S. Schrantz. No. 1,338,702; May 4; v. 274; p. 10.
Clasp. W. H. Stevens. No. 1,345,718; July 6; v. 276; p. 76.
Clasp. C. Sulsner. No. 1,331,291; Feb. 17; v. 271; p. 468.
Clasp and bodkin, Combined. A. L. Vilandrer. No. 1,356,800; Oct. 26; v. 279; p. 601.
Clasp-hook. W. Monroe. No. 1,350,033; Aug. 17; v. 277; p. 495.
Classification of names, &c., Means employed in the J. P. Woods; No. 1,343,755; June 15; v. 275; p. 537.
Classifier. S. H. Boylan. No. 1,326,908; Jan. 6; v. 270; p. 4.
Classifier. W. H. Donald. No. 1,330,242; Feb. 10; v. 271; p. 199.
Classifying finely-divided material. W. A. Schmidt. No. 1,335,758; Apr. 6; v. 273; p. 10.
Clay products, Handling. J. P. B. Fiske. No. 1,352,947; Sept. 14; v. 278; p. 276.
Clay-turning machine. L. L. Randall and E. A. Fries. No. 1,348,580; Aug. 3; v. 277; p. 87.
Clay ware, Method and apparatus for burning. C. B. Harrop. No. 1,338,771; May 4; v. 274; p. 23.
Cleaner: *See*—
- Air-cleaner.
- Bit-cleaner.
- Boiler-cleaner.
- Boiler-tube cleaner.
- Boiler-tube and combustion-chamber cleaner.
- Burner-tip cleaner.
- Chimney-cleaner.
- Comb-cleaner.
- Conduit-cleaner.
- Conveyer-belt cleaner.
- Corn-cleaner.
- Cotton-cleaner.
- Cuspidor-cleaner.
- Eraser-cleaner.
- Excavator-bucket cleaner.
- Flue-cleaner.
- Fountain-pen cleaner.
- Furrow-cleaner.
- Glass-cleaner.
- Grain-cleaner.
- Gun-cleaner.
- Keyboard-cleaner.
- Knife-cleaner.
- Loose-fiber cleaner.
- Pipe-cleaner.
- Pneumatic cleaner.
- Receptacle-cleaner.
- Record-cleaner.
- Roller-cleaner.
- Shoe-cleaner.
- Spark-plug cleaner.
- Stable-cleaner.
- Street-cleaner.
- Stovepipe-cleaner.
- Suction-cleaner.
- Teeth-cleaner.
- Toilet-bowl cleaner.
- Tube-cleaner.
- Vacuum-cleaner.
- Well-cleaner.
- Window-cleaner.
- Window and wall cleaner.
- Windshield-cleaner.
- Yarn-cleaner.

Cleaner. H. E. Hoover. No. 1,328,737; Jan. 20; v. 270; p. 446.
Cleaner. H. E. Hoover. No. 1,329,048; Jan. 27; v. 270; p. 534.
Cleaner, Window-. S. B. Bedelia. No. 1,355,646; Oct. 12; v. 279; p. 288.
Cleaners, Method of and apparatus for protecting the bearings of suction. H. W. Hoover. No. 1,349,765; Aug. 17; v. 277; p. 444.
Cleaning and oiling device, Center. N. E. Brown. No. 1,361,007; Dec. 7; v. 281; p. 5.
Cleaning and polishing apparatus. R. B. Chase. No. 1,350,403; Aug. 24; v. 277; p. 614.
Cleaning and polishing, Composition for. B. A. Barnes. No. 1,340,747; May 18; v. 274; p. 527.
Cleaning and polishing composition. F. C. Lytle. No. 1,334,464; Mar. 23; v. 272; p. 590.
Cleaning and polishing composition. H. T. Nichols and C. R. Freede. No. 1,362,260; Dec. 14; v. 281; p. 308.
Cleaning and polishing composition. J. A. Patrick. No. 1,363,481; Dec. 28; v. 281; p. 631.
Cleaning and polishing device, Bread-baking-pan. F. Schneider. No. 1,329,931; Feb. 3; v. 271; p. 110.
Cleaning apparatus. R. Morelli and J. Solimeo. No. 1,327,110; Jan. 6; v. 270; p. 48.
Cleaning apparatus. T. H. Richardson. No. 1,343,644; June 15; v. 275; p. 515.
Cleaning apparatus, Dry-. C. Kolin. No. 1,359,178; Nov. 16; v. 280; p. 490.
Cleaning apparatus, Dust-collecting bag for. W. W. Farnsworth. No. 1,351,561; Aug. 31; v. 277; p. 903.
Cleaning appliance. G. L. Bartlett. No. 1,351,720; Aug. 31; v. 277; p. 933.
Cleaning device. J. F. Buchanan and C. E. White. No. 1,355,385; Oct. 12; v. 279; p. 238.
Cleaning device. M. I. Dowling. No. 1,355,391; Oct. 12; v. 279; p. 239.
Cleaning device. D. H. Moore. No. 1,335,451; Mar. 30; v. 272; p. 836.
Cleaning device. H. T. Schneider. No. 1,348,748; Aug. 3; v. 277; p. 119.
Cleaning device, Suction. W. V. Orr. No. 1,342,592; June 8; v. 275; p. 245.
Cleaning machine, Dry-. J. J. Hoerger. No. 1,335,502; Mar. 30; v. 272; p. 846.
Cleaning-machine, Portable. S. B. Pack. No. 1,339,280; May 4; v. 274; p. 116.

Digitized by Google

Cleaning-machine. Vacuum. W. V. Orr. No. 1,342,593; June 8; v. 275; p. 245.
Cleaning machine, Vacuum street-. P. J. Dunn. No. 1,356,272; Oct. 19; v. 279; p. 452.
Cleaning-off machine. A. A. Krider. No. 1,329,841; Feb. 3; v. 271; p. 93.
Cleaning-pad. S. Lapin. No. 1,362,426; Dec. 14; v. 281; p. 334.
Cleansing and polishing composition. A. Muha. No. 1,342,862; June 8; v. 275; p. 298.
Cleansing and sterilizing preparation. C. E. North. No. 1,339,783; May 11; v. 274; p. 288.
Cleansing compound and making same. E. Baum. No. 1,340,315; May 18; v. 274; p. 445.
Cleansing finely-divided material. J. C. Morrell. No. 1,359,091; Nov. 16; v. 280; p. 474.
Cleansing instruments, Holder for. P. J. Delaney. No. 1,357,963; Nov. 9; v. 280; p. 206.
Cleansing material, Manufacture of. G. A. Paulin. No. 1,327,631; Jan. 13; v. 270; p. 201.
Clencher-rims, Tool for straightening. J. M. Cole. No. 1,344,533; June 22; v. 275; p. 755.
Cleat. C. D. Cook. No. 1,328,985; Jan. 27; v. 270; p. 522.
Cleat, Batten-. J. M. Crowe. No. 1,332,324; Mar. 2; v. 272; p. 28.
Cleat, Batten-. J. M. Crowe. No. 1,332,325; Mar. 2; v. 272; p. 28.
Cleat, Roofing-. J. R. McCord, Jr. No. 1,332,223; Mar. 2; v. 272; p. 9.
Clevis. W. O. Berry. No. 1,330,836; Feb. 17; v. 271; p. 378.
Clevis. C. Bettger. No. 1,340,105; May 11; v. 274; p. 348.
Clevis. P. D. Burke. No. 1,333,962; Mar. 16; v. 272; p. 450.
Clevis. M. P. Wanner. No. 1,360,159; Nov. 23; v. 280; p. 730.
Clevis construction, Automatic-release. J. M. Kahl. No. 1,327,480; Jan. 6; v. 270; p. 111.
Clevis, Safety. J. Zubal. No. 1,351,825; Sept. 7; v. 278; p. 22.
Climbing device. J. C. Poetz. No. 1,328,251; Jan. 13; v. 270; p. 319.
Clinker-extractor. G. Selander. No. 1,353,428; Sept. 21; v. 278; p. 430.
Clip: *See*—
Collar-clip.
Connector-clip.
Drapery-clip.
Film-clip.
Fountain-pen clip.
Grain-cup clip.
Index-clip.
Key-ring clip.
Laundry-marking clip.
Music-leaf clip.
Paper-clip.
Paper-holding clip.
Pen-clip.
Pen and pencil clip.
Pen-locking clip.
Pen or pencil clip.
Penholder-clip.
Pencil-clip.
Photofilm-clip.
Photograph-film clip.
Plant-supporting clip.
Rail-clip.
Revolving-case clamp.
Spacing-clip.
Spectacle-case clip.
Swingletree-clip.
Test-clip.
Tie-clip.
Tire-clip.
Clip. C. W. Cass and W. L. Baxter. No. 1,336,129; Apr. 6; v. 273; p. 81.
Clip. W. Hagelstein. No. 1,357,233; Nov. 2; v. 280; p. 7.
Clip. A. C. Klenke. No. 1,337,607; Apr. 20; v. 273; p. 495.
Clip. A. Rolfe. No. 1,337,963; Apr. 20; v. 273; p. 563.
Clip or clasp. W. H. Stevens. No. 1,342,698; June 8; v. 275; p. 265.
Clips. G. B. Dusinberre. No. 1,356,491; Oct. 19; v. 279; p. 404.
Clipper. R. Di Carlo. No. 1,358,423; Nov. 9; v. 280; p. 299.
Clipper. J. W. Price. No. 1,346,249; July 13; v. 276; p. 248.
Clipper and vibrator, Combined. J. D. Daugherty. No. 1,357,031; Oct. 26; v. 279; p. 647.
Clipper, Button-. A. Parent. No. 1,347,289; July 20; v. 276; p. 508.
Clipper, Hair-. E. S. Corlsen. No. 1,355,309; Oct. 12; v. 279; p. 223.
Clipper, Rotary. L. B. Myers. No. 1,334,112; Mar. 16; v. 272; p. 479.
Clock. C. H. Anderson. No. 1,350,131; Aug. 17; v. 277; p. 514.
Clock. L. Hammond. No. 1,345,766; July 6; v. 276; p. 86.
Clock. J. T. Long. No. 1,344,913; June 29; v. 275; p. 893.
Clock, Advertising-. J. U. Barr. No. 1,327,898; Jan. 13; v. 270; p. 251.
Clock, Alarm-. P. Barletta. No. 1,350,693; Aug. 24; v. 277; p. 671.
Clock, Alarm-. A. P. Myer. No. 1,331,276; Feb. 17; v. 271; p. 461.
Clock, Alarm-. W. J. Smith. No. 1,332,076; Feb. 24; v. 271; p. 632.
Clock alarm, Eight-day-. P. G. Lessmann. No. 1,333,178; Mar 9; v. 272; p. 242.
Clock and signal system, Electric. H. C. Prey. No. 1,336,318; Apr. 6; v. 273; p. 116.
Clock, Calendar-. A. Niemczura. No. 1,336,150; Apr. 6; v. 273; p. 84.
Clock-case. A. Chrzanowski. No. 1,363,311; Dec. 28; v. 281; p. 599.
Clock-dial, Metal. G. E. H. Mathes. No. 1,347,173; July 20; v. 276; p. 484.
Clock, Electric. P. P. Andersen. No. 1,335,147; Mar. 30; v. 272; p. 781.
Clock, Electric secondary. P. P. Andersen. No. 1,335,148; Mar. 30; v. 272; p. 781.
Clock, Electrically-driven. H. E. Warren. No. 1,334,422; Mar. 23; v. 272; p. 583.
Clock, Electrically wound and synchronized striking-. A. R. Nelson. No. 1,353,935; Sept. 28; v. 278; p. 574.
Clock, Loom-. M. Tamburini. No. 1,343,988; June 22; v. 275; p. 648.
Clock, Money-saving. E. L. and E. A. Lindblad. No. 1,363,986; Dec. 28; v. 281; p. 729.
Clock-movements, Removable self-holding washer for. W. E. Porter. No. 1,348,517; Aug. 3; p. 277; p. 75.
Clock-operated control device. H. Wilcox. No. 1,333,649; Mar. 16; v. 272; p. 392.
Clock, Pneumatic secondary. C. B. Hale. No. 1,335,053; Mar. 30; v. 272; p. 762.
Clock, Program-. E. E. Jacobs. No. 1,330,944; Feb. 17; v. 271; p. 400.
Clock, Saving-. F. R. Bull. No. 1,337,539; Apr. 20; v. 273; p. 482.
Clock, Saving-. A. G. P. Wilgaard. No. 1,338,543; Apr. 27; v. 273; p. 741.
Clock-spring. M. G. Stageberg. No. 1,337,097; Apr. 13; v. 273; p. 324.
Clock, Stem winding and setting. W. K. Menns. No. 1,331,163; Feb. 17; v. 271; p. 440.
Clock striking mechanism. J. B. Wesley. No. 1,361,424; Dec. 7; v. 281; p. 89.
Clock, Synchronizing-. C. E. Larrabee. No. 1,338,309; Apr. 27; v. 273; p. 698.
Clock system. A. F. Poole. No. 1,338,328; Apr. 27; v. 273; p. 701.
Clock system, Electric-. A. F. Poole. No. 1,328,247; Jan. 13; v. 270; p. 318.
Clock, Time-of-flight. H. C. Ford. No. 1,355,829; Oct. 19; v. 279; p. 364.
Clocks, Alarm mechanism for. M. A. Gage. No. 1,327,669; Jan. 13; v. 270; p. 209.
Clocks, Alarm shut-off for nickel alarm-. W. E. Porter. No. 1,332,569; Mar. 2; v. 272; p. 76.
Clocks, Dial-mat fastening for. W. L. Crouch and A. E. Rust. No. 1,336,204; Apr. 6; v. 273; p. 95.
Clocks, Indicator for electrically-driven. H. E. Warren. No. 1,334,423; Mar. 23; v. 272; p. 583.
Clocks, Striking mechanism for time-. J. A. Ostrowski. No. 1,361,098; Dec. 7; v. 281; p. 22.
Clocks, Winding-key for. N. T. Mills. No. 1,358,457; Nov. 9; v. 280; p. 306.
Clockwork. G. Braunschweig. No. 1,338,609; Apr. 27; v. 273; p. 753.
Clockwork, Cutting and rounding-off machine for teeth for. F. L. W. Buckmann. No. 1,341,541; May 25; v. 274; p. 751.
Clod-crusher. S. H. Musgrave. No. 1,338,391; Apr. 27; v. 273; p. 713.
Clod crusher and packer. N. P. Lehr. No. 1,328,171; Jan. 13; v. 270; p. 303.
Closet: *See*—
Chemical-closet.
Water-closet.
Closet. E. G. Watrous. No. 1,363,027; Dec. 21; v. 281; p. 503.
Closet-bowl. F. J. Clifford and L. A. Perry. No. 1,342,499; June 8; v. 275; p. 226.
Closet-bowls, Cover-rim for. E. J. De Guenther. No. 1,335,095; Mar. 30; v. 272; p. 770.
Closet-seat. W. E. Sloan. No. 1,337,730; Apr. 20; v. 273; p. 519.
Closet-seat and bidet, Combination. D. L. Rathbone. No. 1,346,252; July 13; v. 276; p. 244.
Closet-seat device. W. E. Sloan. No. 1,339,585; May 11; v. 274; p. 250.
Closet-seat lid. G. E. Kinch. No. 1,342,505; June 8; v. 275; p. 227.
Closet-ventilator. E. A. Johnston. No. 1,342,716; June 8; v. 275; p. 268.
Closets, Drip-pan for sanitary. G. W. Ketteringham. No. 1,354,199; Sept. 28; v. 278; p. 629.
Closure. A. Benzinger. No. 1,336,811; Apr. 13; v. 273; p. 270.
Closure. J. J. Bowes, Jr. No. 1,364,029; Dec. 28; v. 281; p. 737.
Closure. L. M. Ford. No. 1,348,857; Aug. 10; v. 277; p. 192.
Closure-fastening device. H. H. Harrington. No. 1,357,864; Nov. 2; v. 280; p. 127.
Closure for containers, Detachable. A. L. Kronquest. No. 1,355,151; Oct. 12; v. 279; p. 191.
Closure-operator. L. M. Phelps. No. 1,358,107; Nov. 9; v. 280; p. 235.
Closure-operator. J. M. Workman. No. 1,356,803; Oct. 26; v. 279; p. 602.

Digitized by Google

Closure, Pressure-controlled. J. S. Da Costa. No. 1,359,875; Nov. 23; v. 280; p. 673.
Closure, Removable. M. H. Kuryla. No. 1,345,862; July 6; v. 276; p. 105.
Closures, Forming hermetic. J. G. Hodgson. No. 1,332,838; Mar. 2; v. 272; p. 127.
Cloth-cutter. N. J. Goldfarb and B. Sacks. No. 1,342,210; June 1; v. 275; p. 118.
Cloth-cutter, Electrical. F. M. Laserson. No. 1,353,052; Sept. 14; v. 278; p. 297.
Cloth cutting and assembling machine. W. D. Buts. No. 1,356,262; Oct. 19; v. 279; p. 450.
Cloth cutting and measuring machine. J. B. St. Andre. No. 1,330,453; Feb. 10; v. 271; p. 238.
Cloth-cutting machine. M. Zawistowski. No. 1,338,478; Apr. 27; v. 273; p. 729.
Cloth-cutting machines, Grinder for rotary. M. Zawistowski. No. 1,341,699; June 1; v. 275; p. 17.
Cloth cutting or shearing machine. A. E. Sellers. No. 1,349,788; Aug. 17; v. 277; p. 449.
Cloth, Device for opening and guiding webs of. W. I. Lewis. No. 1,346,549; July 13; v. 276; p. 303.
Cloth-driers, Heated-air-supply apparatus for. F. F. McIver, Jr. No. 1,338,513; Apr. 27; v. 273; p. 736.
Cloth fabric. S. F. Swantees. No. 1,341,396; May 25; v. 274; p. 723.
Cloth-folding apparatus. W. M. Gustin. No. 1,354,294; Sept. 28; v. 278; p. 648.
Cloth-laying machine. M. Isaacs. No. 1,338,570; Apr. 27; v. 273; p. 746.
Cloth-laying machine. G. Soylian. No. 1,333,459; Mar. 9; v. 272; p. 295.
Cloth, Machine for cutting strips of. H. Brown. No. 1,342,621; June 8; v. 275; p. 249.
Cloth opener, spreader, and guider. W. S. Rowley. No. 1,347,714; July 27; v. 276; p. 649.
Cloth, Reinforced press-. F. T. Parker. No. 1,358,983; Nov. 16; v. 280; p. 454.
Cloth-treating machine. C. C. Rowe. No. 1,357,118; Oct. 26; v. 279; p. 664.
Cloth-winding machine. C. E. Money. No. 1,340,178; May 18; v. 274; p. 420.
Clothes and hat stand. J. Booth. No. 1,341,106; May 25; v. 274; p. 667.
Clothes and line grip. J. Arseneau. No. 1,355,376; Oct. 12; v. 279; p. 236.
Clothes-basket carrier. F. L. Humphrey. No. 1,328,163; Jan. 13; v. 270; p. 302.
Clothes-boiler. N. Rubenstein. No. 1,341,073; May 25; v. 274; p. 661.
Clothes-drier. H. W. Giddings. No. 1,350,367; Aug. 24; v. 277; p. 606.
Clothes-drier. T. Redfern. No. 1,362,139; Dec. 14; v. 281; p. 279.
Clothes-drier. P. D. Riordan. No. 1,354,420; Sept. 28; v. 278; p. 673.
Clothes-drier. P. D. Riordan. No. 1,354,421; Sept. 28; v. 278; p. 673.
Clothes-drier. J. Straith. No. 1,353,670; Sept. 21; v. 278; p. 479.
Clothes-drying machine. P. W. White. No. 1,358,599; Nov. 9; v. 280; p. 333.
Clothes-drying reel. C. G. Newland. No. 1,362,890; Dec. 21; v. 281; p. 476.
Clothes-hanger bracket. R. J. Bell. No. 1,333,600; Mar. 16; v. 272; p. 382.
Clothes-hanger, Closet. M. B. Kendall. No. 1,361,070; Dec. 7; v. 281; p. 18.
Clothes-hanging means. F. A. Curtis. No. 1,357,383; Nov. 2; v. 280; p. 85.
Clothes-hook. A. B. Claflin. No. 1,340,014; May 11; v. 274; p. 331.
Clothes-horse. F. Folmar. No. 1,360,912; Nov. 30; v. 280; p. 945.
Clothes-pressing machine. C. R. Nelson. No. 1,350,379; Aug. 24; v. 277; p. 608.
Clothes-prop. J. J. Meckling, Jr. No. 1,350,978; Aug. 24; v. 277; p. 724.
Clothes-rack. J. D. Barber. No. 1,342,200; June 1; v. 275; p. 116.
Clothes-rack. M. Feldman. No. 1,350,017; Aug. 17; v. 277; p. 492.
Clothes-rack. L. Stevenson. No. 1,344,660; June 29; v. 275; p. 845.
Clothes-reel. C. E. Niles. No. 1,340,494; May 18; v. 274; p. 479.
Clothes-sprinkler. R. A. Beatty. No. 1,350,133; Aug. 17; v. 277; p. 514.
Clothes-support. E. E. Mull. No. 1,362,730; Dec. 21; v. 281; p. 445.
Clothes-suspending apparatus. J. Mermelstein. No. 1,329,541; Feb. 3; v. 271; p. 37.
Clothes-tree. M. Kozlowski. No. 1,358,756; Nov. 16; v. 280; p. 410.
Clothes-washer. E. Beatty. No. 1,338,277; Apr. 27; v. 273; p. 692.
Clothes-washer. G. H. Shannon. No. 1,332,858; Mar. 2; v. 272; p. 130.
Clothes-wringer. H. A. Bodge. No. 1,356,186; Oct. 19; v. 279; p. 435.
Clothes-wringer. C. F. Bronner. No. 1,336,883; Apr. 13; v. 273; p. 284.
Clothes-wringer. A. H. Neller. No. 1,358,868; Nov. 16; v. 280; p. 433.
Clothes-wringer. P. H. Schendler. No. 1,355,916; Oct. 19; v. 279; p. 381.
Clothes-wringer. J. J. Wood. No. 1,327,690; Jan. 13; v. 270; p. 213.
Clothes-wringers, Material-actuated release for. E. B. Stocking. No. 1,342,005; June 1; v. 275; p. 76.
Clothes-wringers, Spring-actuated release for. E. B. Stocking. No. 1,342,004; June 1; v. 275; p. 76.
Clotheshook. F. S. Wester. No. 1,333,692; Mar. 16; v. 272; p. 400.
Clothesline. W. F. Cushing. No. 1,360,189; Nov. 23; v. 280; p. 736.
Clothesline. R. D. Johnson. No. 1,352,273; Sept. 7; v. 278; p. 107.
Clothesline. F. Pete. No. 1,360,144; Nov. 23; v. 280; p. 727.
Clothesline. F. C. Nelson. No. 1,350,380; Aug. 24; v. 277; p. 609.
Clothesline. I. Rudolph. No. 1,341,591; May 25; v. 274; p. 761.
Clothesline. H. G. Wernimont. No. 1,333,520; Mar. 9; v. 272; p. 306.
Clothesline attachment. D. Cundari. No. 1,332,611; Mar. 2; v. 272; p. 84.
Clothesline-coupling. H. F. Doyle. No. 1,346,487; July 13; v. 276; p. 290.
Clothesline device. H. A. Schwarz. No. 1,331,878; Feb. 24; v. 271; p. 596.
Clothesline-hanger, Compensating safety. A. Heyman and C. C. Vervoort. No. 1,360,951; Nov. 30; v. 280; p. 952.
Clothesline-holder. V. E. Anderson. No. 1,358,047; Nov. 9; v. 280; p. 223.
Clothesline-holder. R. Gist. No. 1,345,324; June 29; v. 275; p. 972.
Clothesline-holder. J. Kish. No. 1,354,109; Sept. 28; v. 278; p. 611.
Clothesline-hook. H. C. Lafferty. No. 1,344,589; June 22; v. 275; p. 766.
Clothesline-prop. C. C. Colkitt. No. 1,332,323; Mar. 2; v. 272; p. 28.
Clothesline-prop. C. E. Davis. No. 1,349,325; Aug. 10; v. 277; p. 285.
Clothesline pulley-block. L. Eisenman. No. 1,331,629; Feb. 24; v. 271; p. 548.
Clothesline-reel. J. Sardo. No. 1,352,994; Sept. 14; v. 278; p. 286.
Clothesline-support. F. Baron. No. 1,336,186; Apr. 6; v. 273; p. 91.
Clothesline-support. P. M. Lund. No. 1,330,082; Feb. 10; v. 271; p. 169.
Clothesline-support. W. H. Ortman. No. 1,327,059; Jan. 6; v. 270; p. 34.
Clothesline-support. D. E. Rogers. No. 1,329,855; Feb. 3; v. 271; p. 96.
Clothesline-supporter. E. F. Markham. No. 1,340,070; May 11; v. 274; p. 341.
Clothesline, Tightening device for. L. J. Williams. No. 1,360,846; Nov. 30; v. 280; p. 938.
Clothespin. B. M. Barrickman. No. 1,344,254; June 22; v. 275; p. 699.
Clothespin. C. J. Bartell. No. 1,359,657; Nov. 23; v. 280; p. 630.
Clothespin. B. A. Bridges. No. 1,337,434; Apr. 20; v. 273; p. 462.
Clothespin. V. Davis. No. 1,343,496; June 15; v. 275; p. 485.
Clothespin. P. Freyholtz. No. 1,348,102; July 27; v. 276; p. 726.
Clothespin. J. E. Gunderson. No. 1,335,331; Mar. 30; v. 272; p. 814.
Clothespin. A. G. Hermanson. No. 1,363,592; Dec. 28; v. 281; p. 653.
Clothespin. F. Heyl. No. 1,330,320; Feb. 10; v. 271; p. 213.
Clothespin. D. D. Johnston. No. 1,355,148; Oct. 12; v. 279; p. 191.
Clothespin. J. Moken. No. 1,330,211; Feb. 10; v. 271; p. 194.
Clothespin. W. E. Moyer. No. 1,330,646; Feb. 10; v. 271; p. 274.
Clothespin. J. Muck. No. 1,342,755; June 8; v. 275; p. 276.
Clothespin. W. Patterson. No. 1,356,785; Oct. 26; v. 279; p. 598.
Clothespin. A. Roehr. No. 1,349,224; Aug. 10; v. 277; p. 264.
Clothespin. W. B. C. Sasse. No. 1,357,121; Oct. 26; v. 279; p. 664.
Clothespin. W. R. H. Standing. No. 1,362,152; Dec. 14; v. 281; p. 281.
Clothespin. G. W. Stitzer. No. 1,330,147; Feb. 10; v. 271; p. 182.
Clothespin. F. Tonnette. No. 1,362,909; Dec. 21; v. 281; p. 480.
Clothespin. A. Whitlock. No. 1,348,465; Aug. 3; v. 277; p. 65.
Clothespin. J. L. Whitted. No. 1,340,095; May 11; v. 274; p. 346.

Digitized by Google

Clothespin. W. H. Witt. No. 1,347,429; July 20; v. 276; p. 535.
Clothespin, Locking-. W. R. Derr. No. 1,340,159; May 18; v. 274; p. 417.
Clothespin-machine. B. W. Tucker. No. 1,344,217; June 22; v. 275; p. 692.
Clothespin, Spring-. J. W. McKeehan. No. 1,330,205; Feb. 10; v. 271; p. 193.
Clothespin, Wire. C. S. Pratt. No. 1,346,608; July 13; v. 276; p. 314.
Clothespole. C. G. Carlson. No. 1,326,911; Jan. 6; v. 270; p. 5.
Clouds, fogs, or mists, Process and apparatus for the production of intense artificial. P. Weiss and J. Verdier. No. 1,338,343; Apr. 27; v. 273; p. 704.
Clutch. W. Fritz. No. 1,351,240; Aug. 31; v. 277; p. 838.
Clutch. H. M. Giffin. No. 1,355,139; Oct. 12; v. 279; p. 189.
Clutch. J. F. Gorman. No. 1,341,796; June 1; v. 275; p. 86.
Clutch. I. Janser. No. 1,361,585; Dec. 7; v. 281; p. 123.
Clutch. O. A. Jones and J. T. Fairbourn. No. 1,334,864; Mar. 23; v. 272; p. 667.
Clutch. J. B. Kirby. No. 1,362,011; Dec. 14; v. 281; p. 254.
Clutch. D. Lake. (Reissue.) No. 14,933; Aug. 17; v. 277; p. 547.
Clutch. A. B. Louison. No. 1,342,506; June 8; v. 275; p. 227.
Clutch. G. R. Marsico. No. 1,341,993; June 1; v. 275; p. 74.
Clutch. H. C. Neville. (Reissue.) No. 14,806; Feb. 17; v. 271; p. 499.
Clutch. C. V. Nordberg. No. 1,338,788; May 4; v. 274; p. 26.
Clutch. J. C. Ollard. No. 1,333,440; Mar. 9; v. 272; p. 291.
Clutch. J. H. Roberts. No. 1,360,320; Nov. 30; v. 280; p. 830.
Clutch. J. R. Rogers. No. 1,327,880; Jan. 13; v. 270; p. 248.
Clutch. R. Schmitz. No. 1,344,597; June 22; v. 275; p. 767.
Clutch. R. Schmitz. No 1,351,135; Aug. 31; v. 277; p. 818.
Clutch. J. G. Vincent. No. 1,339,047; May 4; v. 274; p. 74.
Clutch. J. A. Watson. No. 1,328,022; Jan. 13; v. 270; p. 275.
Clutch. S. O. White. No. 1,339,801; May 11; v. 274; p. 291.
Clutch. P. H. White and F. H. Gerdeman. No. 1,361,213; Dec. 7; v. 281; p. 46.
Clutch. A. E. Woodhouse. No. 1,338,891; May 4; v. 274; p. 44.
Clutch. H. L. Worbois. No. 1,361,511; Dec. 7; v. 281; p. 107.
Clutch and brake control, Combination. H. L. Johnson. No. 1,359,385; Nov. 16; v. 280; p. 531.
Clutch and brake control mechanism. E. H. Lichtenberg. No. 1,328,635; Jan. 20; v. 270; p. 427.
Clutch and brake mechanism. S. A. Dobyne. No. 1,352,585; Sept. 14; v. 278; p. 204.
Clutch and braking mechanism. J. C. Kelly and C. Enscoe. No. 1,340,897; May 25; v. 274; p. 626.
Clutch and fuel supply control mechanism. E. V. and F. T. Collins. No. 1,339,435; May 11; v. 274; p. 221.
Clutch and operating means therefor. B. V. and V. J. McCaul, and F. L. Bayley. No. 135,407; Nov. 16; v. 280; p. 536.
Clutch and power-transmission device, Hydraulic. O. E. Bishop. No. 1,358,054; Nov. 9; v. 280; p. 225.
Clutch and pulley mechanism, Bearing for. M. Axlirod. No. 1,347,985; July 27; v. 276; p. 703.
Clutch and transmission, Mechanical movement for combined. A. A. West. No. 1,362,655; Dec. 21; v. 281; p. 431.
Clutch, Automatic. A. H. Manning. No. 1,336,472; Apr. 13; v. 273; p. 204.
Clutch, Automatic friction-. N. R. Krause. No. 1,330,198; Feb. 10; v. 271; p. 190.
Clutch, Automatically-releasing. J. F. Stowe. No. 1,340,124; May 11; v. 274; p. 353.
Clutch, Centrifugally-actuated. C. E. L. Dapprich. No. 1,341,635; June 1; v. 275; p. 4.
Clutch-control device. J. M. Hiney. No. 1,359,248; Nov. 16; v. 280; p. 504.
Clutch control device. A. F. Masury and R. S. Bolger. No. 1,345,685; July 6; v. 276; p. 70.
Clutch-controlling mechanism. M. P. Holmes. No. 1,347,811; July 27; v. 276; p. 668.
Clutch-controlling mechanism. J. F. Ryan. No. 1,342,762; June 8; v. 275; p. 278.
Clutch-coupling for transmission of power by shafting. F. H. Alexander. No. 1,327,985; Jan. 13; v. 270; p. 258.
Clutch, Disk. L. C. Fuller. No. 1,340,885; May 25; v. 274; p. 624.
Clutch, Electrically-operated friction. M. Walker. No. 1,342,270; June 1; v. 275; p. 129.
Clutch-facing. D. Repony. No. 1,341,673; June 1; v. 275; p. 12.
Clutch-facing and making same. S. Simpson. No. 1,348,755; Aug. 3; v. 277; p. 120.
Clutch, Fluid-. G. Shirk. No. 1,360,807; Nov. 30; v. 280; p. 925.
Clutch, Friction-. E. A. Beyl. No. 1,330,931; Feb. 17; v. 271; p. 397.
Clutch, Friction-. C. O. Hansen. No. 1,338,298; Apr. 27; v. 273; p. 695.
Clutch, Friction-. A. Mill. No. 1,335,748; Apr. 6; v. 273; p. 8.
Clutch, Friction-. T. O. Perry. No. 1,345,100; June 29; v. 275; p. 928.
Clutch, Friction-. W. Waern. No. 1,334,685; Mar. 23; v. 272; p. 682.
Clutch, Friction-. C. E. White. No. 1,330,965; Feb. 17; v. 271; p. 404.
Clutch, Magnetic. M. Walker. No. 1,327,506; Jan. 6; v. 270; p. 117.
Clutch mechanism. L. F. Boye. No. 1,348,926; Aug. 10; v. 277; p. 206.
Clutch mechanism. F. G. Hughes. No. 1,341,983; June 1; v. 275; p. 72.
Clutch mechanism. L. H. Kaupke. No. 1,338,159; Apr. 27; v. 273; p. 666.
Clutch mechanism. W. J. O. Lavallee. No. 1,334,108; Mar. 16; v. 272; p. 477.
Clutch mechanism. F. Mohn. No. 1,356,650; Oct. 26; v. 279; p. 572.
Clutch mechanism. C. H. Norton. No. 1,361,797; Dec. 7; v. 281; p. 163.
Clutch mechanism. L. M. Pyle. No. 1,345,683; July 6; v. 276; p. 59.
Clutch mechanism. C. R. Short. No. 1,345,897; July 6; v. 276; p. 112.
Clutch mechanism. C. W. Sievert. No. 1,355,280; Oct. 12; v. 279; p. 218.
Clutch mechanism. M. Strosk. No. 1,354,521; Oct. 5; v. 279; p. 15.
Clutch mechanism, Fluid-control. F. M. Campbell. No. 1,347,322; July 20; v. 276; p. 514.
Clutch mechanism, Reversible. J. F. Stanley. No. 1,330,822; Feb. 17; v. 271; p. 375.
Clutch, Multiple-disk. W. Turnbull. No. 1,327,576; Jan. 6; v. 270; p. 130.
Clutch, Multiple-disk. W. Turnbull. No. 1,344,361; June 22; v. 275; p. 720.
Clutch or locking mechanism. C. E. Archer and E. C. Humphreys. No. 1,360,864; Nov. 30; v. 280; p. 936.
Clutch-pedal lever, Auxiliary. O. W. Stoltz. No. 1,362,758; Dec. 21; v. 281; p. 451.
Clutch-pedal lock. J. S. Cunningham. No. 1,347,252; July 20; v. 276; p. 501.
Clutch, Pneumatic. W. A. Gordon. No. 1,360,394; Nov. 30; v. 280; p. 844.
Clutch-release and rear-brake pedal. W. W. Watson. No. 1,335,628; Mar. 30; v. 272; p. 870.
Clutch, Roller-. L. M. Potts. No. 1,356,557; Oct. 26; v. 279; p. 554.
Clutch, Shock-absorbing. F. J. Couch. No. 1,346,078; July 6; v. 276; p. 149.
Clutch, Steering-. P. E. Holt. No. 1,344,399; June 22; v. 275; p. 728.
Clutch, Variable-speed. F. H. Lippincott. No. 1,327,767; Jan. 13; v. 270; p. 227.
Clutches, Shifter-shoe for. C. E. Mason. No. 1,345,327; June 29; v. 275; p. 972.
Coal and grain truck, Self-loading. J. A. Klovstad. No. 1,353,247; Sept. 21; v. 278; p. 894.
Coal and like material from foreign matter, Jig for separating. C. V. King. No. 1,360,116; Nov. 23; v. 280; p. 721.
Coal and other cargo, Skip for hauling. D. L. Gibson. No. 1,342,018; June 1; v. 275; p. 79.
Coal, Apparatus and art for handling. E. C. Washburn. No. 1,347,000; July 20; v. 276; p. 451.
Coal, Apparatus for handling. H. S. Shimizu. No. 1,355,512; Oct. 12; v. 279; p. 263.
Coal-bag. H. Josephson. No. 1,339,851; May 11; v. 274; p. 301.
Coal-breaker. F. Pardee. No. 1,356,465; Oct. 19; v. 279; p. 489.
Coal cabinet, scuttle, and the like. A. E. Arnold. No. 1,350,913; Aug. 24; v. 277; p. 711.
Coal-cager. E. E. Nida. No. 1,355,414; Oct. 12; v. 279; p. 243.
Coal-chute. J. E. Hyatt and H. J. Moen. No. 1,343,675; June 15; v. 275; p. 521.
Coal-chute cover, Safety. A. Satxman. No. 1,330,012; Feb. 3; v. 271; p. 124.
Coal, clays, ores, &c., Separator for the treatment of. J. M. Draper. No. 1,351,234; Aug. 31; v. 277; p. 837.
Coal, Coking. A. Roberts. No. 1,352,696; Sept. 14; v. 278; p. 226.
Coal-crusher. M. A. Kendall. No. 1,352,609; Sept. 14; v. 278; p. 208.
Coal-cutting machine. A. Stevenson and A. Logan. No. 1,359,126; Nov. 16; v. 280; p. 480.
Coal flotation. R. F. Bacon. No. 1,329,493; Feb. 3; v. 271; p. 28.

Digitized by Google

Coal-handling apparatus. J. E. Jones. No. 1,357,456; Nov. 2; v. 280; p. 48.
Coal-handling machine. E. N. Weaver. No. 1,351,593; Aug. 31; v. 277; p. 909.
Coal-handling plant. H. S. Shimizu. No. 1,335,531; Mar. 30; v. 272; p. 851.
Coal-loading conveyer, Mechanical long-wall. A. E. Knee and G. B. Hopkins. No. 1,343,369; June 15; v. 275; p. 461.
Coal-loading device. R. T. McKeen. No. 1,362,716; Dec. 21; v. 281; p. 448.
Coal-loading machine. N. A. Newdick. No. 1,353,842; Sept. 28; v. 278; p. 556.
Coal-loading machine. N. A. Newdick. No. 1,362,889; Dec. 21; v. 281; p. 476.
Coal-lorry. W. H. Pavitt, Jr. No. 1,363,008; Dec. 21; v. 281; p. 499.
Coal-lorry. L. Wilputte. No. 1,362,977; Dec. 21; v. 281; p. 492.
Coal, Machinery for handling. J. C. French. No. 1,357,318; Nov. 2; v. 280; p. 23.
Coal-oil generator. H. G. Epps. No. 1,346,370; July 13; v. 276; p. 267.
Coal, ore, and other materials, Apparatus for storing. F. L. Stuart. No. 1,354,226; Sept. 28; v. 278; p. 634.
Coal-saver and smoke-consumer. O. L. Salvesen. No. 1,362,744; Dec. 21; v. 281; p. 448.
Coal-screen, Adjustable-bar. J. C. Gaskill. No. 1,351,563; Aug. 31; v. 277; p. 903.
Coal-screen and ash-sifter. T. McGoldrick. No. 1,346,905; July 20; v. 276; p. 432.
Coal-scuttle and implement carrier. M. E. Lightfoot. No. 1,357,104; Oct. 26; v. 279; p. 661.
Coal-separator. W. M. MacFarlane. No. 1,345,453; July 6; v. 276; p. 24.
Coal-tar distillates for the production of resinous products, Treatment of high-boiling. G. C. Bailey and F. Boettner. No. 1,355,103; Oct. 5; v. 279; p. 130.
Coal, tar, heavy oils resulting from the distillation of bituminous coal, &c., Treating. C. S. Palmer. No. 1,360,973; Nov. 30; v. 280; p. 957.
Coal-tar product, Making a. J. M. Weiss. No. 1,350,099; Oct. 5; v. 279; p. 129.
Coal, Treating. J. N. Wingett. No. 1,337,496; Apr. 20; v. 273; p. 474.
Coal-washing apparatus. G. R. Delamater. No. 1,332,814; Mar. 2; v. 272; p. 122.
Coaling device. Y. Brouwers. No. 1,340,819; May 18; v. 274; p. 540.
Coaling device. S. H. Buchanan. No. 1,344,481; June 22; v. 275; p. 744.
Coaster. O. P. Herwick. No. 1,362,865; Dec. 21; v. 281; p. 472.
Coaster. W. Kirkpatrick and W. Wiegner. No. 1,827,240; Jan. 6; v. 270; p. 68.
Coaster. F. Thomas. No. 1,327,123; Jan. 6; v. 270; p. 46.
Coaster. R. K. Whitney. No. 1,336,456; Apr. 13; v. 273; p. 201.
Coaster-brake. U. Duchesne. No. 1,356,052; Oct. 19; v. 279; p. 407.
Coaster-brake. W. F. Emerson. No. 1,340,386; May 18; v. 274; p. 459.
Coaster-brake. C. W. Svenson. No. 1,337,624; Apr. 20; v. 273; p. 498.
Coaster, Convertible. A. J. Matson. No. 1,330,644; Feb. 10; v. 271; p. 274.
Coaster, Kiddie-. M. L. Cantrell. No. 1,344,023; June 22; v. 275; p. 654.
Coaster-recorder. C. E. Larrabee. No. 1,334,956; Mar. 30; v. 272; p. 743.
Coasting device. R. La Valle. No. 1,356,725; Oct. 26; v. 279; p. 587.
Coat. A. E. Gray. (Reissue of design.) No. 14,960; Oct. 19; v. 279; p. 497.
Coat and hat hanger, Combined. W. B. Murtha. No. 1,342,346; June 1; v. 275; p. 143.
Coat, Automobile-. J. Speese. No. 1,331,394; Feb. 17; v. 271; p. 483.
Coat-front, Hair-lock. J. Morita. No. 1,339,274; May 4; v. 274; p. 115.
Coat-fronts, Constructing. S. Greenwald. No. 1,330,631; Feb. 10; v. 271; p. 271.
Coat-hanger. F. Harris. No. 1,356,448; Oct. 19; v. 279; p. 486.
Coat-hanger. J. J. Kottschalk. No. 1,342,166; June 1; v. 275; p. 109.
Coat-hanger. J. L. Weber. No. 1,344,665; June 29; v. 275; p. 846.
Coat, Horseman's. D. B. Wilson. No. 1,330,152; Feb. 10; v. 271; p. 183.
Coat, One-piece. P. Brasiowsky. No. 1,361,820; Dec. 14; v. 281; p. 215.
Coat-protector. H. Schachne. No. 1,335,608; Mar. 30; v. 272; p. 865.
Coat, Waterproof. L. McEvoy. No. 1,359,999; Nov. 23; v. 280; p. 698.
Coated nitrocellulose powder and making same. R. G. Woodbridge, Jr. No. 1,354,640; Oct. 5; v. 279; p. 39.
Coated plate and apparatus therefor, Manufacture of. H. S. Thomas, W. R. Davis, and R. B. Thomas. No. 1,360,819; Nov. 30; v. 280; p. 927.
Coating and stroking or decorating machine. P. Panoulias. No. 1,352,686; Sept. 14; v. 278; p. 224.
Coating apparatus. L. R. Davis. No. 1,347,256; July 20; v. 276; p. 501.
Coating apparatus. E. P. Lindahl. No. 1,338,940; May 4; v. 274; p. 53.
Coating apparatus. E. L. A. Savy. No. 1,341,023; May 25; v. 274; p. 651.
Coating apparatus and method. E. L. Watrous. No. 1,350,481; Aug. 24; v. 277; p. 630.
Coating apparatus and method of coating. E. P. Lindahl. No. 1,338,782; May 4; v. 274; p. 25.
Coating articles. W. J. Miskella. No. 1,329,467; Feb. 3; v. 271; p. 24.
Coating blanks with paraffin, Machine for. F. P. Vavra. No. 1,327,300; Jan. 6; v. 270; p. 78.
Coating composition. H. A. Babis. No. 1,330,421; Feb. 10; v. 271; p. 233.
Coating composition. F. G. Fully. No. 1,344,686; June 29; v. 275; p. 850.
Coating composition. P. E. King. No. 1,360,226; Nov. 23; v. 280; p. 743.
Coating composition and producing same. W. Alexander and J. E. Clegg. No. 1,358,914; Nov. 16; v. 280; p. 442.
Coating composition for iron, steel, and wood. A. C. Holzapfel and P. Walther. No. 1,338,921; May 4; v. 274; p. 50.
Coating confectionery, Machine for. G. White and G. S. and G. R. Baker. No. 1,331,548; Feb. 24; v. 271; p. 532.
Coating device. F. H. Sebring, Jr. No. 1,326,979; Jan. 6; v. 270; p. 19.
Coating-machine. A. J. Morrison. No. 1,331,460; Feb. 17; v. 271; p. 495.
Coating machine, Confectionery-. A. L. Bausman. No. 1,330,422; Feb. 10; v. 271; p. 233.
Coating machines, Attachment for metal-. J. A. Carrigan. No. 1,348,478; Aug. 3; v. 277; p. 68.
Coating, Making and insulating and protective. E. R. Stowell. No. 1,350,343; Aug. 24; v. 277; p. 601.
Coating material. J. H. Young. No. 1,327,933; Jan. 13; v. 270; p. 258.
Coating material and making it, Water-resistant. G. W. Miles. No. 1,354,575; Oct. 5; v. 279; p. 25.
Coating material, Plastic. J. C. Dobbins. No. 1,355,131; Oct. 12; v. 279; p. 138.
Coating, Means for applying. H. O. Davis. No. 1,332,544; Mar. 2; v. 272; p. 71.
Coating, Method of and apparatus for applying liquid. E. C. Alleman. No. 1,340,645; May 18; v. 274; p. 508.
Coating mineral material and product resulting therefrom. J. A. W. Pine. No. 1,343,680; June 15; v. 275; p. 522.
Coating mixture. C. Fell. No. 1,358,304; Nov. 9; v. 280; p. 274.
Coating or enameling metal, Method and apparatus for. J. S. Jobe and J. Dixon. No. 1,348,361; Aug. 3; v. 277; p. 46.
Coating process. W. Alexander. No. 1,337,380; Apr. 20; v. 273; p. 452.
Coating rollers, Cleaning and stripping device for. W. H. Streeper. No. 1,331,463; Feb. 17; v. 271; p. 496.
Coating, Sound-absorbing. C. H. Bryce. No. 1,341,704; June 1; v. 275; p. 18.
Coating surfaces, Composition of matter for. C. L. Westrich. No. 1,360,066; Nov. 23; v. 280; p. 711.
Coating when tinning, painting, &c., Apparatus for flinging off superfluous. S. A. Eskilson. No. 1,327,273; Jan. 6; v. 270; p. 74.
Coatings of liquid or atomized substances, Apparatus for making. A. Shannon. No. 1,357,908; Nov. 2; v. 280; p. 135.
Cobalt, Recovering. M. J. Udy. No. 1,336,765; Apr. 13; v. 273; p. 261.
Cock. F. M. P. Blache. No. 1,340,107; May 11; v. 274; p. 349.
Cock. G. Caraccio. No. 1,361,826; Dec. 14; v. 281; p. 216.
Cock. W. Grikscheit. No. 1,332,894; Mar. 9; v. 272; p. 188.
Cock and actuating means therefor, Angle-. P. J. Kaveney. No. 1,349,208; Aug. 10; v. 277; p. 261.
Cock, Automatic cylinder-. M. B. Brewster. No. 1,361,004; Dec. 7; v. 281; p. 4.
Cock. Automatic cylinder-. A. T. Quehner. No. 1,354,979; Oct. 5; v. 279; p. 106.
Cock, Ball-. A. Hohmeister. No. 1,338,179; Apr. 27; v. 273; p. 673.
Cock, Ball-. H. R. Kuehner. No. 1,361,878; Dec. 14; v. 281; p. 226.
Cock, Ball-. H. R. Kuehner. No. 1,361,879; Dec. 14; v. 281; p. 227.
Cock, Blow-off. P. B. and C. A. Bird. No. 1,359,785; Nov. 23; v. 280; p. 656.
Cock, Drain-. O. A. Smith. No. 1,345,032; June 29; v. 275; p. 915.
Cock, Fluid-. J. Repetto. No. 1,346,977; July 20; v. 276; p. 447.
Cock, Gage-. C. E. Murphy. No. 1,356,732; Oct. 26; v. 279; p. 588.
Cock, Gage-. E. J. Shearer and M. M. Owens. No. 1,346,984; July 20; v. 276; p. 448.

Digitized by Google

Cock, Gage-. C. I. Williams. No. 1,357,667; Nov. 2; v. 280; p. 88.
Cock, Gas-. G. H. Harris. No. 1,339,882; May 11; v. 274; p. 307.
Cock, Gas-. A. R. Tallman. No. 1,343,530; June 15; v. 275; p. 492.
Cock opener, Pet-. J. E. Messenger. No. 1,361,888; Dec. 14; v. 281; p. 228.
Cock or valve, Packless. W. E. Dunham. No. 1,362,986; Dec. 21; v. 281; p. 494.
Cock, Safety gas-. B. J. Diehl. No. 1,335,666; Mar. 30; v. 272; p. 877.
Cock, Self-locking angle-. R. E. McGahey. No. 1,351,391; Aug. 31; v. 277; p. 869.
Cock, Stop-. F. C. Heylman. No. 1,354,460; Sept. 28; v. 278; p. 681.
Cock, Stop and waste. G. W. Decker. No. 1,350,362; Aug. 24; v. 277; p. 605.
Cock, Valve or blow-off. H. H. Riggin. No. 1,331,025; Feb. 17; v. 271; p. 416.
Cocks, Eel-guard for. P. Mueller. No. 1,345,946; July 6; v. 276; p. 122.
Cocks, Seal for. V. Hause. No. 1,333,309; Mar. 9; v. 272; p. 266.
Cocks, Valve control for radiator drain-. H. Brandt. No. 1,347,612; July 27; v. 276; p. 628.
Cocoanut and article, Canning shredded. F. P. McColl and W. W. Willison. No. 1,330,597; Feb. 10; v. 271; p. 265.
Cocoanut and product obtained thereby, Preparing or treating. F. Baker, Jr. No. 1,348,687; Aug. 3; v. 277; p. 108.
Cocoanut and product obtained thereby, Preparing or treating. F. Baker, Jr. No. 1,348,688; Aug. 3; v. 277; p. 108.
Cocoanut and product obtained thereby, Preparing or treating. F. Baker, Jr. No. 1,348,689; Aug. 3; v. 277; p. 108.
Cocoanuts, Excavator for fleshing divided. N. H. Izod. No. 1,356,527; Oct. 26; v. 279; p. 548.
Code-record. G. H. Williams. No. 1,332,861; Mar. 2; v. 272; p. 131.
Codes as used in telegraphy, Apparatus for teaching. C. R. and R. Woodland. No. 1,343,754; June 15; v. 275; p. 537.
Coffee and apparatus therefor, Making. F. H. Muller. No. 1,345,947; July 6; v. 276; p. 122.
Coffee and other products, Apparatus for making. H. Anhaltzer. No. 1,358,048; Nov. 9; v. 280; p. 223.
Coffee and peanut roaster, Electric. M. T. Seymour. No. 1,334,876; Mar. 23; v. 272; p. 669.
Coffee, Apparatus for making. N. De Mattei. No. 1,357,445; Nov. 2; v. 280; p. 46.
Coffee, Apparatus for treating. A. Robert. No. 1,341,676; June 1; v. 275; p. 12.
Coffee-cutting. E. F. Schnuck. No. 1,341,200; May 25; v. 274; p. 685.
Coffee-grinding machine. F. A. Wilcox and E. L. McGrory. No. 1,347,608; July 27; v. 276; p. 628.
Coffee-grinding mill. K. S. Stenbo. No. 1,340,635; May 18; v. 274; p. 506.
Coffee in cups, Apparatus for roasting and preparing. V. Cappelli. No. 1,345,477; July 6; v. 276; p. 29.
Coffee infusion, Apparatus for preparing. P. T. Arduino. No. 1,344,161; June 22; v. 275; p. 681.
Coffee-making device. E. Sprague, Jr. No. 1,362,644; Dec. 21; v. 281; p. 429.
Coffee-mill, Vertical. K. S. Stenbo. No. 1,336,793; Apr. 13; v. 273; p. 266.
Coffee or like beverages, Device for the preparation of. M. de Arrigunaga. No. 1,346,485; July 13; v. 276; p. 290.
Coffee or tea pot. J. Heinrichs. No. 1,357,051; Oct. 26; v. 279; p. 651.
Coffee, Packing. W. H. Pisani. No. 1,347,791; July 27; v. 234; p. 665.
Coffee-percolator and tea-steeper, Combined. H. C. Biette. No. 1,347,142; July 20; v. 276; p. 478.
Coffee-pot. W. H. Bruning. No. 1,351,410; Aug. 31; v. 277; p. 873.
Coffee-pot. D. A. Galt. No. 1,362,616; Dec. 21; v. 281; p. 423.
Coffee-pot. F. J. Rabbeth. No. 1,343,582; June 15; v. 275; p. 502.
Coffee-roasting machine. F. A. Wilcox and E. L. McGrory. No. 1,340,692; May 18; v. 274; p. 517.
Coffee-urn. H. D. Kelly. No. 1,334,497; Mar. 23; v. 272; p. 597.
Coffee-urn. E. Kronman. No. 1,352,069; Sept. 7; v. 278; p. 69.
Coffee-urn. A. S. Rice. No. 1,343,848; June 15; v. 275; p. 556.
Coffee-urn. A. M. Salazar. No. 1,341,520; May 25; v. 274; p. 747.
Coffee-urn. J. N. Shaw. No. 1,341,285; May 25; v. 274; p. 701.
Coffee-urn. H. J. Strohbach. No. 1,349,236; Aug. 10; v. 277; p. 267.
Coffee-urn attachment. J. N. Shaw. No. 1,331,032; Feb. 17; v. 271; p. 417.
Coil and connection, Oscillation spiral. E. F. Northrup. No. 1,330,133; Feb. 10; v. 271; p. 179.
Coil and constructing same, Loading-. W. J. Shackelton. No. 1,334,321; Mar. 23; v. 272; p. 564.
Coil, Artificially-cooled high-frequency. E. F. Northrup. No. 1,328,336; Jan. 20; v. 270; p. 371.
Coil-box. V. A. Lingle. No. 1,353,116; Sept. 14; v. 278; p. 309.
Coil-box guard. R. C. Yonge. No. 1,330,672; Feb. 10; v. 271; p. 279.
Coil-box protector. H. E. S. Lorens. No. 1,339,568; May 11; v. 274; p. 247.
Coil-box protector. P. C. Morris. No. 1,338,581; Apr. 27; v. 273; p. 748.
Coil-end support. R. B. Williamson. No. 1,331,970; Feb. 24; v. 271; p. 612.
Coil feeding and cutting mechanism. F. H. Sleeper and W. H. Blount. No. 1,352,842; Sept. 14; v. 278; p. 256.
Coil-forming apparatus. C. Kubasta. No. 1,334,704; Mar. 23; v. 272; p. 635.
Coil-forming machine. A. W. Miller. No. 1,349,903; Aug. 17; v. 277; p. 470.
Coil, Induction-. R. Rosner. No. 1,332,757; Mar. 2; v. 272; p. 111.
Coil-spring, Angular. S. L. Markham. No. 1,349,079; Aug. 10; v. 277; p. 236.
Coil, Temperature-equalizing. T. L. Hartman. No. 1,331,429; Feb. 17; v. 271; p. 490.
Coil-unit and spark-plug tester. R. T. Carlson. No. 1,335,219; Mar. 30; v. 272; p. 793.
Coil-winder. L. F. Stratton. No. 1,344,567; June 22; v. 275; p. 761.
Coils, Machine for forming armature-. E. A. Halbleib. No. 1,330,317; Feb. 10; v. 271; p. 213.
Coin-actuated appliance. C. A. Herle. No. 1,330,870; Feb. 17; v. 271; p. 385.
Coin and stamp box. J. R. Halley. No. 1,353,585; Sept. 21; v. 278; p. 461.
Coin-assorter. J. A. Rogers. No. 1,327,357; Jan. 6; v. 270; p. 89.
Coin-assorting apparatus. J. Leja. No. 1,346,457; July 13; v. 276; p. 285.
Coin-box. W. A. and P. M. Zeidler. No. 1,355,584; Oct. 12; v. 279; p. 277.
Coin-boxes, Registering-circuits for. G. K. Thompson. No. 1,340,260; May 18; v. 274; p. 435.
Coin changing and delivering machine. J. Garami. No. 1,350,148; Aug. 17; v. 277; p. 518.
Coin-collector. H. H. Baumgartner. No. 1,341,534; May 25; v. 274; p. 750.
Coin-controlled apparatus. C. Dimmock. No. 1,353,228; Sept. 21; v. 278; p. 390.
Coin-controlled apparatus, Registering mechanism for. T. M. Neldner. No. 1,329,542; Feb. 3; v. 271; p. 37.
Coin-controlled clockwork mechanism. Safety device for. A. G. P. Wiingaard. No. 1,335,145; Mar. 30; v. 272; p. 780.
Coin-controlled lock. W. R. Neckerman. No. 1,341,433; May 25; v. 274; p. 730.
Coin-controlled mechanism. G. L. Huff. No. 1,343,999; June 22; v. 275; p. 650.
Coin-controlled mechanism. G. L. Huff. No. 1,344,086; June 22; v. 275; p. 667.
Coin-controlled mechanism. W. Millard. No. 1,344,769; June 29; v. 275; p. 866.
Coin-controlling register. J. W. Hughes. No. 1,336,628; Apr. 13; v. 273; p. 234.
Coin-counting apparatus. O. E. Schnitzspahn. No. 1,347,179; July 20; v. 276; p. 485.
Coin-counting device. M. Kondo. No. 1,362,803; Dec. 21; v. 281; p. 460.
Coin-delivering device. M. J. West. No. 1,363,828; Dec. 28; v. 281; p. 698.
Coin-delivery machine, Electrical. C. McDermott. No. 1,356,379; Oct. 19; v. 279; p. 472.
Coin-dispensing device. O. Jaeger. No. 1,341,749; June 1; v. 275; p. 27.
Coin-freed delivery apparatus. G. S. Karck and S. H. Varndell. No. 1,330,540; Feb. 10; v. 271; p. 255.
Coin-freed electric illuminating apparatus. H. E. Stiles and A. H. F. Perl. No. 1,331,038; Feb. 17; v. 271; p. 418.
Coin-freed stamping apparatus. F. Hilton. No. 1,336,960; Apr. 13; v. 273; p. 298.
Coin holder, Packaged-. E. J. Brandt. No. 1,358,411; Nov. 9; v. 280; p. 296.
Coin-operated mechanism. E. H. Helt. No. 1,347,742; July 27; v. 276; p. 655.
Coin-receptacle. W. C. Heindl. No. 1,330,703; Feb. 10; v. 271; p. 285.
Coin-receptacle. J. C. Jones. No. 1,329,771; Feb. 3; v. 271; p. 79.
Coin-register. A. H. Woodward. No. 1,344,840; June 29; v. 275; p. 880.
Coin-register, Station. A. H. Woodward. No. 1,344,841; June 29; v. 275; p. 886.
Coin-registering mechanism. H. A. Martin. No. 1,329,540; Feb. 3; v. 271; p. 37.
Coin-selector. E. V. Hill. No. 1,354,647; Oct. 5; v. 279; p. 40.
Coin-selector. E. V. Hill. No. 1,354,648; Oct. 5; v. 279; p. 41.
Coin separator and counter. C. C. Voglesong. No. 1,356,947; Oct. 26; v. 279; p. 630.

Digitized by Google

Alphabetical list of inventions—Continued.

Coin-wrapper. W. J. Morgan. No. 1,337,941; Apr. 20; v. 273; p. 559.
Coin-wrapping machine. A. V. Chamberlin. No. 1,339,808; May 11; v. 274; p. 293.
Coke and apparatus therefor, Manufacture of. F. J. Sivyer. No. 1,354,809; Oct. 5; v. 279; p. 73.
Coke-chamber and discharging-guide therefor. L. Wilputte. No. 1,360,608; Nov. 30; v. 280; p. 886.
Coke-handling apparatus. W. F. Rust. No. 1,351,541; Aug. 31; v. 277; p. 899.
Coke-oven. A. Roberts. No. 1,356,788; Oct. 26; v. 279; p. 599.
Coke-oven and operating same. C. E. Lucke. No. 1,332,909; Mar. 9; v. 272; p. 191.
Coke-oven-door machine. L. A. Sanford. No. 1,361,186; Dec. 7; v. 281; p. 41.
Coke-oven-door mechanism. L. Wilputte. No. 1,344,218; June 22; v. 275; p. 692.
Coke-oven heating-walls. A. Roberts. No. 1,358,787; Nov. 16; v. 280; p. 416.
Coke-oven plant. C. Still and C. Wessel. No. 1,340,990; May 25; v. 274; p. 644.
Coke-oven, Regenerative. L. Wilputte. No. 1,360,609; Nov. 30; v. 280; p. 886.
Coke-oven, Regenerative. L. Wilputte. No. 1,360,610; Nov. 30; v. 280; p. 887.
Coke-producing apparatus. A. M. Smith. No. 1,346,515; July 13; v. 276; p. 296.
Coke product and making same, Light-. H. Rodman. No. 1,334,404; Mar. 23; v. 272; p. 580.
Coke-rake. B. Watanabe. No. 1,349,176; Aug. 10; v. 277; p. 255.
Coke-wharves, Feeding apparatus for. R. M. Bickley and E. J. Mason. No. 1,333,378; Mar. 9; v. 272; p. 280.
Colander for defecated cane-juice. R. Rodrigues y Rodriguez. No. 1,346,060; July 6; v. 276; p. 145.
Colander for defecated cane-juice. R. Rodrigues y Rodrigues. No. 1,358,880; Nov. 16; v. 280; p. 435.
Collapsible block. A. Kenworthy. No. 1,337,017; Apr. 13; v. 273; p. 309.
Collapsible box. C. F. Christopher. No. 1,339,021; May 4; v. 274; p. 68.
Collapsible box. G. A. Cibulka. No. 1,353,629; Sept. 21; v. 278; p. 470.
Collapsible box. C. W. Lewis. No. 1,341,429; May 25; v. 274; p. 729.
Collapsible box. L. S. Lundy. No. 1,348,725; Aug. 3; v. 277; p. 115.
Collapsible box. E. K. Morris. No. 1,362,129; Dec. 14; v. 281; p. 277.
Collapsible box. A. V. Trego. No. 1,337,167; Apr. 13; v. 273; p. 337.
Collapsible box. A. M. Watson. No. 1,354,928; Oct. 5; v. 279; p. 96.
Collapsible box. E. J. Wild. No. 1,356,681; Oct. 26; v. 279; p. 578.
Collapsible can. A. C. Guhl. No. 1,356,203; Oct. 19; v. 279; p. 438.
Collapsible chair. A. E. Albertie. No. 1,344,431; June 22; v. 275; p. 734.
Collapsible chair. C. H. Walmsley. No. 1,341,689; June 1; v. 275; p. 15.
Collapsible core. C. Hutchins. No. 1,363,651; Dec. 28; v. 281; p. 664.
Collapsible hanger. L. W. Townsend. No. 1,346,922; July 20; v. 276; p. 436.
Collapsible rod. T. R. Arden. No. 1,348,145; Aug. 3; v. 277; p. 3.
Collapsible stand. W. H. Bose. No. 1,340,370; May 18; v. 274; p. 456.
Collapsible tube. C. J. Beatty. No. 1,334,344; Mar. 23; v. 272; p. 568.
Collapsible tube. E. L. Cleveland. No. 1,352,355; Sept. 7; v. 278; p. 128.
Collapsible tube. C. G. King. No. 1,346,897; July 20; v. 276; p. 430.
Collapsible tube. C. W. Stegmaier. No. 1,356,837; Oct. 26; v. 279; p. 609.
Collar. C. C. Hemmick. No. 1,363,871; Dec. 28; v. 281; p. 707.
Collar. J. M. van Heusen. No. 1,352,563; Sept. 14; v. 278; p. 200.
Collar. J. M. van Heusen. No. 1,352,705; Sept. 14; v. 278; p. 228.
Collar. J. M. van Heusen. No. 1,352,706; Sept. 14; v. 278; p. 228.
Collar. C. M. Richter. No. 1,353,181; Sept. 21; v. 278; p. 382.
Collar. M. Schwartz. No. 1,355,920; Oct. 19; v. 279; p. 382.
Collar, Adjustable. J. L. Ream. No. 1,347,712; July 27; v. 276; p. 648.
Collar and hame, Combination draft. J. H. Cary and J. D. McMurry. No. 1,331,454; Feb. 17; v. 271; p. 494.
Collar and making same. F. P. Welch. No. 1,334,062; Mar. 16; v. 272; p. 469.
Collar and tie holder. J. A. Mariner. No. 1,353,969; Sept. 28; v. 278; p. 582.
Collar attachment, Soft-. D. V. Zhukoff. No. 1,355,798; Oct. 12; v. 279; p. 317.
Collar-bar. A. Brown. No. 1,351,613; Aug. 31; v. 277; p. 913.
Collar-button and tie-guard, Combined. J. B. Smart. No. 1,362,828; Dec. 21; v. 281; p. 465.
Collar, Clamping-. O. Cacadier. No. 1,359,229; Nov. 16; v. 280; p. 500.
Collar-clasp. W. Hutchison. No. 1,345,191; June 29; v. 275; p. 946.
Collar-clip. K. Staufenbeil. No. 1,339,073; May 4; v. 274; p. 79.
Collar construction. T. Hase. No. 1,350,609; Aug. 24; v. 277; p. 655.
Collar-fastener. T. J. Gillespie. No. 1,353,739; Sept. 21; v. 278; p. 493.
Collar-fastener. F. Hyde. No. 1,352,268; Sept. 7; v. 278; p. 106.
Collar-fastener. J. B. Maxfield. No. 1,336,147; Apr. 6; v. 273; p. 84.
Collar fastener, Soft-. E. E. Keenan. No. 1,354,661; Oct. 5; v. 279; p. 43.
Collar fastener, Soft-. D. W. MacMillan. No. 1,359,612; Nov. 23; v. 280; p. 621.
Collar-fastening device. J. L. Corbi. No. 1,326,915; Jan. 6; v. 270; p. 6.
Collar-holder. B. F. Burgoyne. No. 1,350,063; Aug. 17; v. 277; p. 501.
Collar-holder. C. J. Callahan. No. 1,362,923; Dec. 21; v. 281; p. 482.
Collar-holder. J. Elson. No. 1,347,999; July 27; v. 276; p. 706.
Collar-holder. W. U. Fry. No. 1,359,981; Nov. 23; v. 280; p. 695.
Collar-holder. A. D. Kessler. No. 1,334,907; Mar. 23; v. 272; p. 675.
Collar-holder. F. J. Le Clair. No. 1,349,071; Aug. 10; v. 277; p. 234.
Collar-holder. R. K. and F. S. Maker. No. 1,356,768; Oct. 26; v. 279; p. 595.
Collar-holder. J. A. Mariner. No. 1,352,139; Sept. 7; v. 278; p. 82.
Collar holder, Coat-. F. Concha. No. 1,328,945; Jan. 27; v. 270; p. 515.
Collar holder, Soft-. A. L. Anderson. No. 1,347,983; July 27; v. 276; p. 702.
Collar holder, Soft-. E. L. Anderson. No. 1,361,760; Dec. 7; v. 281; p. 156.
Collar holder, Soft-. E. L. and L. A. Anderson. No. 1,357,669; Nov. 2; v. 280; p. 88.
Collar holder, Soft-. I. R. Lederer. No. 1,360,650; Nov. 30; v. 280; p. 895.
Collar holder, Soft-. S. Sampson. No. 1,350,569; Aug. 24; v. 277; p. 647.
Collar, Horse-. A. Odenbach. No. 1,354,994; Oct. 5; v. 279; p. 108.
Collar, Horse-. E. L. Sill. No. 1,356,407; Oct. 19; v. 279; p. 478.
Collar-securing means. W. D. Ross. No. 1,331,725; Feb. 24; v. 271; p. 566.
Collar-shaper. E. Lichtenstein. No. 1,355,557; Oct. 12; v. 279; p. 271.
Collar, Soft. C. C. Hemmick. No. 1,358,544; Nov. 9; v. 280; p. 322.
Collar-support. L. Grabiec. No. 1,342,106; June 1; v. 275; p. 97.
Collar-supporter. C. W. Ahrens. No. 1,337,989; Apr. 27; v. 273; p. 637.
Collar-supporter. C. W. Ahrens. No. 1,345,823; July 6; v. 276; p. 97.
Collar-supporter. W. H. Clopton, Jr. No. 1,344,580; June 22; v. 275; p. 764.
Collar, Swimming-. G. H. and J. B. Flowers. No. 1,334,938; Mar. 23; v. 272; p. 682.
Collar to spindles, Means for securing. E. B. Crocker. No. 1,363,496; Dec. 28; v. 281; p. 634.
Collars and ties, Attachment for combining. J. R. Elizondo. No. 1,333,398; Mar. 9; v. 272; p. 288.
Collars, Device for holding soft. F. J. Antelotti. No. 1,363,381; Dec. 28; v. 281; p. 612.
Collars, Ironing. I. F. Willey. No. 1,350,583; Aug. 24; v. 277; p. 650.
Collars, Machine for trimming. L. H. Hays. No. 1,354,906; Oct. 5; v. 279; p. 92.
Color-matching light. O. H. Mohr. No. 1,330,028; Feb. 3; v. 271; p. 127.
Collars, Retaining device for laundried. I. F. Willey. No. 1,349,643; Aug. 17; v. 277; p. 420.
Collecting and stapling mechanism. E. P. Sheldon. No. 1,343,231; June 15; v. 275; p. 435.
Collection-box. B. F. Perry. No. 1,360,677; Nov. 30; v. 280; p. 899.
Colloid-containing mediums, Treatment of. W. A. Deane. No. 1,359,037; Nov. 16; v. 280; p. 464.
Colloid-treated fabric and producing same. S. P. Lovell. No. 1,353,599; Sept. 21; v. 278; p. 464.
Color-filter negative and preparing same. J. A. H. Hatt. No. 1,349,956; Aug. 17; v. 277; p. 480.
Color-solution-mixing tank. C. Schneider. No. 1,354,850; Oct. 5; v. 279; p. 80.
Colored design and producing same. R. D. Doner. No. 1,354,471; Oct. 5; v. 279; p. 5.
Colorimeter. F. G. Spindler. No. 1,353,500; Sept. 21; v. 278; p. 444.
Coloring flexible transparent materials. R. Malcom. No. 1,332,349; Mar. 2; v. 272; p. 33.

Digitized by Google

Coloring product and tinctorial mordant. R. H. and M. H. Vegas. No. 1,330,992; Feb. 17; v. 271; p. 409.
Colors. A. Linz. No. 1,358,007; Nov. 9; v. 280; p. 216.
Colors, Manufacture of. G. B. Palmer. No. 1,339,219; May 4; v. 274; p. 106.
Colter. R. L. Dillon. No. 1,351,376; Aug. 31; v. 277; p. 867.
Colter hub, Rolling-disk-. W. R. Wilson. No. 1,340,693; May 18; v. 274; p. 517.
Column. M. A. Fouhy. No. 1,335,104; Mar. 30; v. 272; p. 772.
Column, Bearing-supporting. S. A. Dobyne. No. 1,358,301; Nov. 9; v. 280; p. 273.
Column construction. J. R. Trudelle. No. 1,350,686; Aug. 24; v. 277; p. 669.
Column footing, Steel-. W. S. Caskey. No. 1,355,536; Oct. 12; v. 279; p. 267.
Column-form, shore, and scaffold clamp. N. Douglas. No. 1,360,507; Nov. 30; v. 280; p. 866.
Column, Fractionating-. L. V. Rogers. No. 1,363,485; Dec. 28; v. 281; p. 632.
Column, Hand-rail. C. B. Baker. No. 1,345,338; July 6; v. 276; p. 3.
Column-mold. A. W. Eaches. No. 1,331,096; Feb. 17; v 271; p. 429.
Comb: *See*—
Barber's comb. Hair-drying comb.
Currycomb. Hair-waving comb.
Electrical comb. Match-comb.
Hair-comb.
Comb. O. R. Altwein. No. 1,362,460; Dec. 14; v. 281; p. 341.
Comb. M. B. Besson. No. 1,330,675; Feb. 10; v. 271; p. 280.
Comb. J. A. Cypert. No. 1,340,379; May 18; v. 274; p. 457.
Comb. S. Desmarais. No. 1,347,260; July 20; v. 276; p. 502.
Comb. G. P. Eccleston. No. 1,356,273; Oct. 19; v. 279; p. 452.
Comb. G. G. Givens. No. 1,340,948; May 25; v. 274; p. 636.
Comb. A. Nonnenmann. No. 1,342,224; June 1; v. 275; p. 121.
Comb. W. Peterson. No. 1,361,612; Dec. 7; v. 281; p. 128.
Comb. W. H. Sammons. No. 1,362,823; Dec. 21; v. 281; p. 464.
Comb. S. Synohubyk. No. 1,341,158; May 25; v. 274; p. 677.
Comb. S. G. Tankins. No. 1,339,632; May 11; v. 274; p. 259.
Comb and brush, Combination. G. L. Bricker. No. 1,328,120; Jan. 13; v. 270; p. 293.
Comb and brush, Combination. F. Kucab. No. 1,356,637; Oct. 26; v. 279; p. 569.
Comb and brush, Combined. F. C. Orcutt. No. 1,361,092; Dec. 7; v. 281; p. 22.
Comb, brush, and mirror, Combined. G. H. Dunham. No. 1,333,907; Mar. 16; v. 272; p. 439.
Comb-cleaner. I. Brandon. No. 1,340,817; May 18; v. 274; p. 540.
Comb-cleaner. H. Lanfear. No. 1,338,937; May 4; v. 274; p. 53.
Comb-cleaner. G. Rechter. No. 1,339,863; May 11; v. 274; p. 303.
Comb-cleaner. E. Schaefer. No. 1,362,746; Dec. 21; v. 281; p. 448.
Combination-boiler. E. M. Martin. No. 1,352,824; Sept. 14; v. 278; p. 252.
Combination-chair. F. Karschitz. No. 1,353,595; Sept. 21; v. 278; p. 463.
Combination-chair. Y. W. Rogers. No. 1,357,255; Nov. 2; v. 280; p. 11.
Combination-engine. A. W. Bodell. No. 1,333,749; Mar. 16; v. 272; p. 410.
Combination fabric. A. Sollen. No. 1,355,177; Oct. 12; v. 279; p. 198.
Combination-gage. W. Salt. No. 1,341,481; May 25; v. 274; p. 740.
Combination-key. F. Clark. No. 1,353,722; Sept. 21; v. 278; p. 489.
Combination-lock. E. M. Benham. No. 1,345,574; July 6; v. 276; p. 49.
Combination-lock. W. T. and E. M. Benham. No. 1,345,575; July 6; v. 276; p. 49.
Combination-lock. L. Cohen. No. 1,355,387; Oct. 12; v. 279; p. 238.
Combination-lock. S. Hermanowich. No. 1,358,445; Nov. 9; v. 280; p. 303.
Combination-lock. R. W. Griffith. No. 1,353,588; Sept. 21; v. 278; p. 461.
Combination-lock. C. L. Manon. No. 1,351,484; Aug. 31; v. 277; p. 887.
Combination-lock. J. Näslund. No. 1,345,020; June 29; v. 275; p. 913.
Combination-lock. D. J. Newman. No. 1,357,720; Nov. 2; v. 280; p. 98.
Combination-lock. J. H. Pillings. No. 1,355,776; Oct. 12; v. 279; p. 313.
Combination-lock. G. B. Poindexter. No. 1,339,668; May 11; v. 274; p. 266.
Combination-lock. H. W. Ponting and A. J. Watling. No. 1,347,708; July 27; v. 276; p. 647.
Combination-lock. F. C. Vartuli. No. 1,352,771; Sept. 14; v. 278; p. 241.
Combination-lock. W. A. Rigal. No. 1,345,552; July 6; v. 276; p. 45.
Combination-lock. F. C. Staver. No. 1,338,796; May 4; v. 274; p. 28.
Combination-lock, Automatic. F. B. Ashton. No. 1,348,621; Aug. 3; v. 277; p. 95.
Combination-lock, Electric. A. Z. Mample. No. 1,353,257; Sept. 21; v. 278; p. 396.
Combination-wrench. E. E. Thomas. No. 1,344,101; June 22; v. 275; p. 669.
Combing-machine. H. Tunstall. No. 1,351,076; Aug. 31; v. 277; p. 806.
Combing-machine. H. Tunstall. No. 1,351,077; Aug. 31; v. 277; p. 806.
Combustible coverings, Process of and machine for removing. C. A. Nelson. No. 1,351,186; Aug. 31; v. 277; p. 828.
Combustion apparatus. R. J. Anderson. No. 1,362,212; Dec. 14; v.281; p. 293.
Combustion apparatus. J. Good. No. 1,331,985; Feb. 24; v. 271; p. 616.
Combustion apparatus. J. Good. No. 1,334,446; Mar. 23; v. 272; p. 587.
Combustion apparatus. L. L. Scott. No. 1,336,261; Apr. 6; v. 273; p. 105.
Combustion-chambers, Apparatus for injecting fuel into. J. O. Fisher. No. 1,333,612; Mar. 16; v. 272; p. 384.
Combustion by flow and pressure, Controlling. J. M. Hopwood. No. 1,338,923; May 4; v. 273; p. 50.
Combustion by flow and pressure, Controlling. J. M. Hopwood. No. 1,338,924; May 4; v. 274; p. 50.
Combustion by flow and pressure, Controlling. J. M. Hopwood. No. 1,338,925; May 4; v. 274; p. 51.
Combustion by flow and pressure, Controlling. J. M. Hopwood. No. 1,338,926; May 4; v. 274; p. 51.
Combustion by flow and pressure, Controlling. J. M. Hopwood. No. 1,338,927; May 4; v. 274; p. 51.
Combustion-chambers, Means for feeding fuel to. V. Z. Caracristi. No. 1,336,125; Apr. 6; v. 273; p. 80.
Combustion-chambers, Method and apparatus for draining. A. Doble. No. 1,360,506; Nov. 30; v. 280; p. 866.
Combustion, Construction for perfecting. H. M. Snow. No. 1,331,393; Feb. 17; v. 271; p. 488.
Combustion device. S. Young. No. 1,344,668; June 29; v. 275; p. 846.
Combustion-engine. W. L. Corliss. No. 1,332,807; Mar. 2; v. 272; p. 121.
Combustion-engine. J. Good. No. 1,332,332; Mar. 2; v. 272; p. 29.
Combustion-engine. W. C. Hurst. No. 1,344,228; June 22; v. 275; p. 694.
Combustion-engine. W. T. Price. No. 1,351,718; Aug. 31; v. 277; p. 933.
Combustion-furnace. W. L. Harder. No. 1,354,741; Oct. 5; v. 279; p. 58.
Combustion, Means for promoting. J. B. Smith. No. 1,353,432; Sept. 21; v. 278; p. 430.
Combustion method, Confined-. J. Good. No. 1,342,901; June 8; v. 275; p. 306.
Combustion, Method of and apparatus for regulating. T. A. Peebles. No. 1,339,000; May 4; v. 274; p. 65.
Combustion products under pressure, Apparatus for generating. C. M. Pattison. No. 1,331,523; Feb. 24; v. 271; p. 528.
Combustion, Regulating. T. A. Peebles. No. 1,338,956; May 4; v. 274; p. 57.
Combustion regulating method and mechanism. F. H. Brown and J. M. Hopwood. No. 1,338,899; May 4; v. 274; p. 46.
Combustion-section, Perforated. C. Munzner. No. 1,333,563; Mar. 9; v. 272; p. 315.
Combustion system. L. L. Scott. No. 1,334,560; Mar. 23; v. 272; p. 609.
Combustion system. L. L. Scott. No. 1,352,227; Sept. 7; v. 278; p. 99.
Comfort. L. R. McNatt. No. 1,347,642; July 27; v. 276; p. 634.
Comfort-frame. L. S. Slocum. No. 1,341,483; May 25; v. 274; p. 740.
Comforter. F. Whitney. No. 1,349,540; Aug. 10; v. 277; p. 327.
Comminuting apparatus. O. Kutsche. No. 1,332,850; Mar. 2; v. 272; p. 129.
Comminuting-machine. O. Kutsche. No. 1,332,220; Mar. 2; v. 272; p. 8.
Comminuting-mill. R. C. Newhouse. No. 1,361,280; Dec. 7; v. 281; p. 59.
Comminuting-mill. R. C. Newhouse. No. 1,361,281; Dec. 7; v. 281; p. 59.
Commode-chair. Folding. A. A. Howe. No. 1,342,715; June 8; v. 275; p. 268.
Communication-controlling device. I. S. Merrell. No. 1,340,552; May 18; v. 274; p. 490.
Commutator. T. P. Harbour and B. B. Brimmon. No. 1,353,392; Sept. 21; v. 278; p. 422.
Commutator. L. E. Hodges. No. 1,351,648; Aug. 31; v. 277; p. 920.

Digitized by Google

Alphabetical list of inventions—Continued.

Commutator. O. Kersten. No. 1,340,857; May 18; v. 274; p. 547.
Commutator. F. and J. B. Lederer. No. 1,362,015; v. 14; v. 281; p. 254.
Commutator. E. P. Lee. No. 1,349,003; Aug. 10; v. 277; p. 221.
Commutator. J. W. Pearson. No. 1,338,092; Apr. 27; v. 273; p. 657.
Commutator. H. R. Saxon. No. 1,351,926; Sept. 7; v. 278; p. 43.
Commutator. L. T. Tuttle. No. 1,347,065; July 20; v. 276; p. 464.
Commutator. C. C. Zenk. No. 1,360,166; Nov. 23; v. 280; p. 731.
Commutator. T. Zimmerman. No. 1,362,663; Dec. 21; v. 281; p. 432.
Commutator and assembling same. S. N. Sloan. No. 1,354,005; Sept. 28; v. 278; p. 589.
Commutator and producing same. C. A. Van Dusen. No. 1,329,277; Jan. 27; v. 270; p. 577.
Commutator-bracket. J. H. Morin, E. Charbonneau, and F. Charron. No. 1,332,136; Feb. 24; v. 271; p. 643.
Commutator-connector. T. Zimmerman. No. 1,357,016; Oct. 26; v. 279; p. 644.
Commutator-cylinder. V. M. Allen. No. 1,358,691; Nov. 16; v. 280; p. 397.
Commutator-cylinder. R. E. Hellmund. No. 1,358,736; Nov. 16; v. 280; p. 406.
Commutator-cylinders, Means for balancing high-speed. C. W. Starker. No. 1,363,688; Dec. 28; v. 281; p. 671.
Commutator-grinder. F. E. Fuller. No. 1,352,805; Sept. 14; v. 278; p. 249.
Commutator-machines, Reactance-shunt for. J. I. Hull. No. 1,328,519; Jan. 20; v. 270; p. 406.
Commutators, Device for reducing the insulating-strips of. B. O. Swain and J. S. Timmons. No. 1,359,288; Nov. 16; v. 280; p. 511.
Commutators, Making. S. N. Sloan. No. 1,354,006; Sept. 28; v. 278; p. 589.
Commutators, Making. C. C. Zenk. No. 1,360,165; Nov. 23; v. 280; p. 731.
Commutators, Spool or holder for. C. A. Van Dusen. No. 1,354,007; Sept. 28; v. 278; p. 589.
Compass. S. E. Andrews. No. 1,338,666; May 4; v. 274; p. 3.
Compass. E. F. Clark. No. 1,360,095; Nov. 23; v. 280; p. 717.
Compass. C. F. Golden. No. 1,327,154; Jan. 6; v. 270; p. 51.
Compass and clock, Combined. C. F. Korn. No. 1,355,343; Oct. 12; v. 279; p. 345.
Compass and quadrant, Combined. D. Jokubaitis. No. 1,354,195; Sept. 28; v. 278; p. 628.
Compass-dial, Adjustable. H. T. Zeiner-Henriksen. No. 1,349,455; Aug. 10; v. 277; p. 310.
Compass, Gyroscopic. G. B. Harrison and A. L. Rawlings. No. 1,359,368; Nov. 16; v. 280; p. 528.
Compass, Gyroscopic. G. B. Harrison and A. L. Rawlings. No. 1,362,940; Dec. 21; v. 281; p. 485.
Compass, Magnetic. G. R. C. Campbell; No. 1,341,296; May 25; v. 275; p. 703.
Compass, Magnetic. C. H. Colvin. No. 1,334,273; Mar. 16; v. 272; p. 508.
Compass, Marine. A. B. Bunker. No. 1,332,027; Feb. 24; v. 271; p. 623.
Compass-observing apparatus. C. F. Bush. No. 1,332,462; Mar. 2; v. 272; p. 55.
Compass, Translucent mariner's. A. E. Ritchie. No. 1,332,304; Mar. 2; v. 272; p. 25.
Compasses. C. F. Dieckmann. No. 1,343,664; June 15; v. 275; p. 519.
Compasses. P. B. Ruch. No. 1,334,556; Mar. 23; v. 272; p. 608.
Compasses, Damping means for gyroscopic. H. L. Tanner. No. 1,330,501; Feb. 10; v. 271; p. 247.
Compasses, Gage for setting. G. D. Neill. No. 1,356,306; Oct. 19; v. 279; p. 459.
Compasses, Means for illuminating magnetic. C. F. Ryland. No. 1,333,222; Mar. 9; v. 272; p. 250.
Compensating-press. L. Bartelstone. No. 1,334,588; Mar. 23; v. 272; p. 614.
Composing and typecasting machine. M. French and M. Miller. No. 1,362,860; Dec. 21; v. 281; p. 471.
Composite article and making same. M. A. Popkess and J. E. Black. No. 1,334,317; Mar. 23; v. 272; p. 563.
Composite sheet. E. H. Angier. No. 1,352,774; Sept. 14; v. 278; p. 242.
Composition and making same, Potentially-reactive. L. H. Baikeland. No. 1,354,154; Sept. 28; v. 278; p. 620.
Composition and manufacture. J. F. Cavanagh. No. 1,346,397; July 13; v. 276; p. 272.
Composition board. E. D. Martinet. No. 1,333,553; Mar. 9; v. 272; p. 313.
Composition of matter. B. F. Dodge. No. 1,357,852; Nov. 2; v. 280; p. 124.
Composition of matter. A. L. Straus. No. 1,354,585; Oct. 5; v. 279; p. 28.
Composition of matter and making same. H. Blumenberg, Jr. No. 1,338,279; Apr. 27; v. 273; p. 692.
Composition of matter and producing same. L. E. Barton. No. 1,342,084; June 1; v. 275; p. 92.
Compound. A. Parry. No. 1,335,457; Mar. 30; v. 272; p. 837.
Compound. L. D. Shiveley. No. 1,344,658; June 29; v. 275; p. 845.
Compound board. C. G. Robinson. No. 1,334,796; Mar. 23; v. 272; p. 653.
Compound board. C. G. Robinson. No. 1,344,962; June 29; v. 275; p. 902.
Compound for external application. J. G. Roman. No. 1,350,842; Aug. 24; v. 277; p. 699.
Compound spring. E. H. Spillman. No. 1,330,727; Feb. 10; v. 271; p. 289.
Compounds, Manufacture of loose. J. E. Bloom. No. 1,333,701; Mar. 16; v. 272; p. 402.
Compress. N. B. Henry. No. 1,327,472; Jan. 6; v. 270; p. 110.
Compressed objects, Means for forming. J. W. Talbot. No. 1,348,669; Aug. 3; v. 277; p. 105.
Compression-coupling. W. P. Leahy. No. 1,327,106; Jan. 6; v. 270; p. 43.
Compression-coupling. L. K. Snell. No. 1,334,682; Mar. 23; v. 272; p. 631.
Compression-indicator. R. C. Dicken. No. 1,357,153; Oct. 26; v. 279; p. 671.
Compression-release. G. A. Goeke. No. 1,343,501; June 15; v. 275; p. 486.
Compression-tester. L. M. Knapp. No. 1,337,455; Apr. 20; v. 273; p. 466.
Compressor. V. Arluskes. No. 1,337,501; Apr. 20; v. 273; p. 475.
Compressor. H. J. Bery. No. 1,331,233; Feb. 17; v. 271; p. 453.
Compressor. E. Bruand. No. 1,333,382; Mar. 9; v. 272; p. 280.
Compressor. C. D. Havenstrite. No. 1,349,199; Aug. 10; v. 277; p. 260.
Compressor. M. C. White. No. 1,329,646; Feb. 3; v. 271; p. 56.
Compressor. J. O. and W. Wishart. No. 1,360,611; Nov. 30; v. 280; p. 887.
Compressor and motor-starter. M. C. White. No. 1,351,269; Aug. 31; v. 277; p. 844.
Compressor apparatus. W. S. Weeks. No. 1,343,536; June 15; v. 275; p. 498.
Compressor-controlling device. R. Conrader. No. 1,328,984; Jan. 27; v. 270; p. 522.
Compressor-controlling mechanism. F. D. Holdsworth. No. 1,363,204; Dec. 21; v. 281; p. 537.
Compressor installations, Starting means for motor-driven. F. D. Longacre. No. 1,347,786; July 27; v. 276; p. 664.
Compressor, Motor-driven. L. D. Saunders. No. 1,328,340; Jan. 20; v. 270; p. 372.
Compressor mounting, Turbo-. E. H. Sherbondy. No. 1,329,480; Feb. 3; v. 271; p. 26.
Compressor or exhauster, Rotary. J. Johnston. No. 1,357,872; Nov. 2; v. 280; p. 128.
Compressor, Rotary. B. B. Farnham. No. 1,354,035; Sept. 28; v. 278; p. 595.
Compressor-unloader. E. A. Rix. No. 1,345,884; July 6; v. 276; p. 109.
Compressor, Valve-spring. C. L. Clark, E. H. Perkins, and C. S. We Mett. No. 1,357,954; Nov. 9; v. 280; p. 205.
Compressors, Automatic control for turbo-. E. H. Sherbondy. No. 1,346,563; July 13; v. 276; p. 306.
Compressors, Automatic sealer and lubricator for refrigerating-. J. Ellmauer. No. 1,336,076; Apr. 6; v. 273; p. 70.
Compressors, Lubricant-leakage-preventing device for. G. A. Kramer. No. 1,345,372; July 6; v. 276; p. 9.
Compressors, Supercharging device for turbo-. E. H. Sherbondy. No. 1,346,564; July 13; v. 276; p. 306.
Computing attachment, Hand-operated. D. Turner. No. 1,359,549; Nov. 23; v. 280; p. 609.
Computing-machine. G. Browning. No. 1,360,091; Nov. 23; v. 280; p. 717.
Computing-machine. J. P. Chiley. No. 1,332,543; Mar. 2; v. 272; p. 71.
Computing-machine. C. B. Corell. No. 1,349,561; Aug. 17; v. 277; p. 404.
Computing-machine. A. D. Harmon. No. 1,350,727; Aug. 24. v. 277; p. 677.
Computing-machine. C. R. Morse. No. 1,330,893; Feb. 17; v. 271; p. 390.
Computing-machine. E. C. Walter. No. 1,362,549; Dec. 14; v. 281; p. 358.
Computing-table. J. Jokel. No. 1,359,603; Nov. 23; v. 280; p. 620.
Computing-table device. A. A. Wray. No. 1,338,892; May 4; v. 274; p. 45.
Concave, Adjustable. J. W. Kuntz. No. 1,334,910; Mar. 23; v. 272; p. 676.
Concentrating apparatus. E. Deister. No. 1,334,524; Mar. 23; v. 272; p. 602.
Concentrating-table. I. Klindt. No. 1,360,764; Nov. 30; v. 280; p. 917.
Concentrating-table. C. W. Wright. No. 1,336,327; Apr. 6; v. 273; p. 117.
Concentrator. H. Bolthoff. No. 1,327,902; Jan. 13; v. 270; p. 252.
Concentrator. W. Cottrell. No. 1,332,863; Mar. 2; v. 272; p. 131.
Concentrator. E. E. Horstmann. No. 1,335,504; Mar. 30; v. 272; p. 846.
Concentrator. A. R. Mackie. No. 1,344,051; June 22; v. 275; p. 660.

Digitized by Google

Concentrator. E. McFarland and H. T. Lowary. No. 1,357,884; Nov. 2; v. 280; p. 130.
Concentrator. M. L. Rogers. No. 1,343,683; June 15; v. 275; p. 523.
Concentrator and classifier, Combination. A. E. Keables. No. 1,336,963; Apr. 13; v. 273; p. 299.
Concrete anchor or insert. C. J. Branch. No. 1,352,245; Sept. 7; v. 278; p. 102.
Concrete and like plastic materials, Curing. L. A. Ballonby. No. 1,348,775; Aug. 3; v. 277; p. 124.
Concrete and like substances, Mixing-machine for. F. W. Kiddie. No. 1,361,870; Dec. 14; v. 281; p. 225.
Concrete articles, Machine for making hollow. A. O. Crozier. No. 1,358,419; Nov. 9; v. 280; p. 298.
Concrete bar. H. K. Dyson. No. 1,362,931; Dec. 21; v. 281; p. 484.
Concrete block construction. H. M. Knight. No. 1,353,046; Sept. 14; v. 278; p. 296.
Concrete-block mold. H. D. Henderson. No. 1,360,214; Nov. 23; v. 280; p. 741.
Concrete blocks, Machine for molding. G. A. Tonkin. No. 1,347,356; July 20; v. 276; p. 521.
Concrete blocks, Machine for the manufacture of. J. M. Wellington and D. G. Mackenzie. No. 1,361,122; Dec. 7; v. 281; p. 28.
Concrete bricks, apparatus for making hollow. A. O. Crozier. No. 1,340,824; May 18; v. 274; p. 541.
Concrete bridge construction, Reinforced-. W. M. Thomas. No. 1,329,643; Feb. 3; v. 271; p. 56.
Concrete-bridge structure, Reinforced-. J. Stainer. No. 1,344,929; June 29; v. 275; p. 896.
Concrete bridges, Arch construction for. W. M. Thomas. No. 1,356,025; Oct. 19; v. 279; p. 402.
Concrete building. F. M. Barton. No. 1,335,780; Apr. 6; v. 273; p. 15.
Concrete building and concrete building construction. H. E. Ross. No. 1,355,572; Oct. 12; v. 279; p. 274.
Concrete building-block, Reinforced-. G. A. Johnson. No. 1,338,509; Apr. 27; v. 273; p. 735.
Concrete building construction. H. M. Priest, R. H. Ford, A. L. Greenabaum, and C. P. Richardson. No. 1,345,880. July 6; v. 276; p. 108.
Concrete ceilings, Hangers for. E. T. Martin. No. 1,351,112; Aug. 31; v. 277; p. 813.
Concrete, Chair for reinforcing-rods for reinforced. W. B. Leonard. No. 1,343,326; June 15; v. 275; p. 452.
Concrete conglomerates, Apparatus for mixing. W. M. Prather. No. 1,331,576; Feb. 24; v. 271; p. 538.
Concrete-chimney form. W. J. Kulow. No. 1,327,481; Jan. 6; v. 270; p. 112.
Concrete columns, Core for molding hollow. H. W. Remington. No. 1,346,844; July 20; v. 276; p. 420.
Concrete conduit, Reinforced-. G. M. Schofield. No. 1,346,687; July 13; v. 276; p. 330.
Concrete construction. E. F. Allbright. No. 1,353,373; Sept. 21; v. 278; p. 419.
Concrete construction. A. G. Borchert. No. 1,348,623; Aug. 3; v. 277; p. 96.
Concrete construction. L. Brandt. No. 1,349,600; Aug. 17; v. 277; p. 412.
Concrete construction. E. A. Eastman. No. 1,344,623; June 29; v. 275; p. 837.
Concrete construction. A. Gomsrud. No. 1,346,016; July 6; v. 276; p. 136.
Concrete construction. E. Smulski. No. 1,356,319; Oct. 19; v. 279; p. 461.
Concrete construction. E. Steude. No. 1,360,978; Nov. 30; v. 280; p. 958.
Concrete construction and constructing same, Waterway reinforced. J. S. Williams. No. 1,350,690; Aug. 24; v. 277; p. 670.
Concrete construction, Form for. J. H. Cresmer. No. 1,344,115; June 22; v. 275; p. 672.
Concrete, Construction of vessels of reinforced. P. M. Lorton. No. 1,349,075; Aug. 10; v. 277; p. 235.
Concrete construction, Pile and panel system for. C. G. Dabis. No. 1,362,852; Dec. 21; v. 281; p. 469.
Concrete-construction plant. J. S. Williams. No. 1,349,992; Aug. 17; v. 277; p. 487.
Concrete construction, Reinforced. W. C. Davis. No. 1,348,483; Aug. 3; v. 277; p. 69.
Concrete construction, Reinforced. R. McWilliams. No. 1,353,770; Sept. 21; v. 278; p. 498.
Concrete construction, Reinforced. E. L. Peterson. No. 1,346,673; July 13; v. 276; p. 327.
Concrete construction, Reinforced. E. P. Press. No. 1,348,445; Aug. 3; v. 277; p. 62.
Concrete construction, Reinforcement for. J. G. Richardson and F. L. Metzger. No. 1,362,188; Dec. 14; v. 281; p. 288.
Concrete-cooker. F. A. Saunders. No. 1,349,784. Aug. 17; v. 277; p. 448.
Concrete cooling-tower, Reinforced. G. Kuypers. No. 1,343,832; June 15; v. 275; p. 553.
Concrete-culvert form. E. J. Whalen. No. 1,332,243; Mar. 2; v. 272; p. 13.
Concrete culvert, Reinforced-. P. S. Easterday. No. 1,332,387; Mar. 2; v. 272; p. 41.
Concrete curb structure, Reinforced-. T. W. Kelly. No. 1,331,265; Feb. 17; v. 271; p. 459.
Concrete elements, Apparatus for making. H. Donoghue. No. 1,353,225; Sept. 21; v. 278; p. 390.
Concrete fabrics, Apparatus for forming. M. L. Lisowski. No 1,330,126; Feb. 10; v. 271; p. 178.
Concrete floor. N. F. Ambursen. No. 1,334,729; Mar. 23; v. 272; p. 640.
Concrete floor. G. C. Webb and T. T. Pottenger. No. 1,348,610; Aug. 3; v. 277; p. 93.
Concrete floor construction. P. Kuhne. No. 1,329,978; Feb. 3; v. 271; p. 118.
Concrete floor construction, Reinforced-. D. J. Flynn. No. 1,338,567; Apr. 27; v. 273; p. 746.
Concrete-floor sections, Supporting and constructing. H. Rasmussen. No. 1,335,458; Mar. 30; v. 272; p. 838.
Concrete flooring, Composition of matter for treating. A. H. Annan. No. 1,333,057; Mar. 9; v. 272; p. 220.
Concrete floorings and non-sonorous ceilings, Construction of. L. Christin. No. 1,343,659; June 15; v. 275; p. 518.
Concrete floors, Construction of reinforced-. H. L. Barraclough. No. 1,328,555; Jan. 20; v. 270; p. 413.
Concrete floors, False work for. S. J. Branson and E. C. Strathmann. No. 1,327,081; Jan. 6; v. 270; p. 38.
Concrete-form. H. O. Davidson. No. 1,349,819; Aug. 17; v. 277; p. 454.
Concrete-form. J. N. Heltzel. No. 1,329,177; Jan. 27; v. 270; p. 559.
Concrete-form. S. R. McKay. (Reissue.) No. 14,807; Feb. 24; v. 271; p. 658.
Concrete-form. G. M. Reichert. No. 1,334,677; Mar. 23; v. 272; p. 630.
Concrete-form clamp. T. H. Sinclair. No. 1,354,516; Oct. 5; v. 279; p. 14.
Concrete-form support and bracket. E. C. Marqua. No. 1,346,131; July 13; v. 276; p. 221.
Concrete forms, Bracing device for. J. M. Park. No. 1,357,418; Nov. 2; v. 280; p. 41.
Concrete, Gang-mold for casting posts of cement. C. F. Ruby. No. 1,331,028; Feb. 17; v. 271; p. 416.
Concrete-handling machine. W. H. Insley and A. C. Rasmussen. No. 1,362,002; Dec. 14; v. 281; p. 252.
Concrete-hardening. C. Ellis and H. S. Riederer. No. 1,348,099; July 27; v. 276; p. 726.
Concrete hulls, Compressor-mold for forming. E. A. Larsen. No. 1,343,176; June 8; v. 275; p. 360.
Concrete insert. J. E. Ogden. No. 1,351,119; Aug. 31; v. 277; p. 814.
Concrete-insert. E. Towe. No. 1,359,290; Nov. 16; v. 280; p. 512.
Concrete, Means for suspending fastening elements from. J. G. Pool. No. 1,341,585; May 25; v. 274; p. 759.
Concrete-mixer. E. W. Brackenbury. No. 1,335,934; Apr. 6; v. 273; p. 43.
Concrete-mixer. E. W. Brackenbury. No. 1,350,293; Aug. 24; v. 277; p. 591.
Concrete-mixer. M. and J. P. Gilson. (Reissue.) No. 14,795; Jan. 27; v. 270; p. 590.
Concrete-mixer. A. L. Hale. No. 1,341,316; May 25; v. 274; p. 707.
Concrete-mixer. W. H. Hudson. No. 1,355,478; Oct. 12; v. 279; p. 256.
Concrete-mixer. G. E. Kellar. No. 1,327,917; Jan. 13; v. 270; p. 255.
Concrete mixer and conveyer. J. J. Lynch. No. 1,349,285; Aug. 10; v. 277; p. 277.
Concrete-mixer and paver, Pneumatic. L. H. Eichelberger. No. 1,362,242; Dec. 14; v. 281; p. 299.
Concrete-mixer loader. V. M. Price. No. 1,340,845; May 18; v. 274; p. 451.
Concrete-mixers, Discharge-chute for. C. M. Clarke. No. 1,333,705; Mar. 16; v. 272; p. 402.
Concrete mixing and distributing machine, Self-loading. H. O. Stamp. No. 1,349,231; Aug. 10; v. 277; p. 266.
Concrete-mixing apparatus. A. J. Powers. No. 1,332,063; Feb. 24; v. 271; p. 630.
Concrete-mixing apparatus. A. W. Ransome. No. 1,350,179; Aug. 17; v. 277; p. 523.
Concrete-mold. H. K. Carpenter. No. 1,363,391; Dec. 21; v. 281; p. 618.
Concrete-mold. F. G. Lynde. No. 1,343,572; June 15; v. 275; p. 500.
Concrete-mold. R. T. Wales. No. 1,354,705; Oct. 5; v. 279; p. 52.
Concrete, Mold for constructing hollow walls of. J. R. Richardson. No. 1,329,095; Jan. 27; v. 270; p. 543.
Concrete-mold-form stay. J. N. Heltzel. No. 1,345,179; June 29; v. 275; p. 944.
Concrete or like substances, Machine for molding. J. F. Burn and F. W. Turner. No. 1,334,928; Mar. 23; v. 272; p. 680.
Concrete pile and panel, Reinforced-. E. K. Hand. No. 1,338,503; Apr. 27; v. 273; p. 734.
Concrete-pile construction. C. S. Howell. No. 1,352,128; Sept. 7; v. 278; p. 80.
Concrete piles, Method and apparatus for constructing. S. M. Cotten. No. 1,342,424; June 8; v. 275; p. 212.
Concrete pipe. J. D. Trammell. No. 1,344,779; June 29; v. 275; p. 868.
Concrete-pipe construction. H. E. Dillon. No. 1,351,895; Sept. 7; v. 278; p. 36.
Concrete-pipe joint. A. J. Boyle. No. 1,345,829; July 6; v. 276; p. 98.
Concrete-pipe machine. O. F. Heer and O. Johnson. No. 1,330,760; Feb. 10; v. 271; p. 296.

Digitized by Google

Concrete-pipe machine. M. J. Smith. No. 1,359,543; Nov. 23; v. 280; p. 608.
Concrete-pipe-making machine. G. C. Martin. No. 1,344,590; June 22; v. 275; p. 766.
Concrete pipe, Reinforced-. G. C. Bartram. No. 1,346,629; July 13; v. 276; p. 319.
Concrete pipes, Mold for manufacture of. A. Porri. No. 1,336,857; Apr. 13; v. 273; p. 279.
Concrete pole. E. B. Blinn. No. 1,353,009; Sept. 21; v. 278; p. 406.
Concrete posts, Reinforcing. J. W. Bennett. No. 1,334,881; Mar. 23; v. 272; p. 670.
Concrete, Preparing pumice-stone for use in. E. C. Bayer. No. 1,354,233; Sept. 28; v. 278; p. 636.
Concrete rail and track. W. J. Platten. No. 1,339,046; May 4; v. 274; p. 74.
Concrete reinforced pile. J. M. Maher. No. 1,356,646; Oct. 26; v. 279; p. 571.
Concrete reinforcement. P. M. Cabell. No. 1,345,663; July 6; v. 276; p. 66.
Concrete reinforcement. P. M. Cabell. No. 1,358,518; Nov. 9; v. 280; p. 318.
Concrete-reinforcing means. E. Smulski. No. 1,336,166; Apr. 6; v. 273; p. 87.
Concrete, Reinforcing structure for. W. Goldie. No. 1,344,882; June 29; v. 275; p. 887.
Concrete-road-building machine. W. D. Ham. No. 1,345,925; July 6; v. 276; p. 118.
Concrete-road forms, Anchor and support for. C. D. Sheppard. No. 1,348,060; July 27; v. 276; p. 719.
Concrete roof construction. G. A. Hurst. No. 1,346,752; July 13; v. 276; p. 343.
Concrete-slab construction. W. E. Crew. No. 1,361,831; Dec. 14; v. 281; p. 217.
Concrete-slab mold. A. Chambley. No. 1,330,735; Feb. 10; v. 271; p. 291.
Concrete slabs, Bar supporter and divider for. P. Kuhne. No. 1,338,120; Mar. 9; v. 272; p. 231.
Concrete slabs, Press for making. C. R. Burkhardt. No. 1,332,457; Mar. 2; v. 272; p. 54.
Concrete slabs, Process of and apparatus for making. G. Atterbury. No. 1,326,902; Jan. 6; v. 270; p. 3.
Concrete stack. W. M. Alston. No. 1,344,608; June 29; v. 275; p. 835.
Concrete step, Ready-formed. J. A. Cooper. No. 1,360,890; Nov. 30; v. 280; p. 941.
Concrete structure. W. M. Thomas. No. 1,327,889; Jan. 13; v. 270; p. 250.
Concrete structure, Hydraulic. A. E. Schutte. No. 1,331,217; Feb. 17; v. 271; p. 450.
Concrete structures, Apparatus for building. C. Dietrichs. No. 1,361,315; Dec. 7; v. 281; p. 66.
Concrete structures, Chair for. E. M. and L. M. Scofield. No. 1,356,315; Oct. 19; v. 279; p. 461.
Concrete structures, Framework for reinforcing and shaping. F. A. Wright. No. 1,336,547; Apr. 13; v. 273; p. 219.
Concrete structures, Reinforcing device for. G. A. Smith. No. 1,331,288; Feb. 17; v. 271; p. 463.
Concrete structures, Reinforcing means for. W. Goldie. No. 1,344,881; June 29; v. 275; p. 887.
Concrete structures, Reinforcing means for. W. Goldie. No. 1,344,942; June 29; v. 275; p. 898.
Concrete structures, Reinforcing means for. W. Goldie. (Reissue.) No. 14,941; Aug. 31; v. 277; p. 935.
Concrete structures, Spacer for reinforcing elements of. A. E. Small. No. 1,356,021; Oct. 19; v. 279; p. 402.
Concrete-surface-finishing machine. P. C. McArdle. No. 1,344,916; June 29; v. 275; p. 894.
Concrete-tamper. A. F. Parker. No. 1,329,796; Feb. 3; v. 271; p. 84.
Concrete tank, Knockdown reinforced. W. E. Thomas and W. L. Furr. No. 1,334,192; Mar. 16; v. 272; p. 493.
Concrete tanks, Metal reinforcement and support for. A. F. Holmberg. No. 1,359,065; Nov. 16; v. 280; p. 470.
Concrete tie. P. C. Ickes. No. 1,357,236; Nov. 2; v. 280; p. 7.
Concrete tie. W. F. Morrison. No. 1,350,420; Aug. 24. v. 277; p. 617.
Concrete tie, Metal-reinforced. C. F. Youberg. No. 1,330,295; Feb. 10; v. 271; p. 209.
Concrete ties. Rail-fastening for. E. Rogers. No. 1,358,468; Nov. 9; v. 280; p. 308.
Concrete to receive rails and other fasteners, or building elements, Insert for. H. Hudson. No. 1,348,801; Aug. 3; v. 277; p. 129.
Concrete tombs, Producing monolithic. F. S. Bintliff. No. 1,355,122; Oct. 12; v. 279; p. 186.
Concrete under water, Apparatus for dumping. A. W. Grünberg. No. 1,360,109; Nov. 23; v. 280; p. 720.
Concrete units, Making. A. G. Aurand. No. 1,336,712; Apr. 13; v. 273; p. 251.
Concrete wall construction. F. B. Smith. No. 1,359,283; Nov. 16; v. 280; p. 510.
Concrete wall, Hollow. H. P. Brown. No. 1,329,699; Feb. 3; v. 271; p. 66.
Concrete wall structure, Reinforced-. V. J. Madsen. No. 1,343,926; June 22; v. 275; p. 636.
Concrete wall's Form for. L. M. Foster. No. 1,331,191; Feb. 17; v. 271; p. 446.
Concrete walls, Sectional mold for. C. F. Baron. No. 1,358,693; Nov. 16; v. 280; p. 397.
Concrete work, Apparatus for. A. Bickel. No. 1,363,304; Dec. 28; v. 281; p. 597.
Condensation product and making it, Soluble. O. Schmidt. No. 1,336,759; Apr. 13; v. 273; p. 260.
Condenser. K. Baumann. No. 1,347,436; July 20; v. 276; p. 537.
Condenser. W. Dubilier. No. 1,334,139; Mar. 16; v. 272; p. 484.
Condenser. R. N. Ehrhart. No. 1,328,828; Jan. 27; v. 270; p. 492.
Condenser. R. N. Ehrhart. No. 1,352,438; Sept. 14; v. 278; p. 174.
Condenser. R. W. Ehrhart. No. 1,353,642; Sept. 21; v. 278; p. 473.
Condenser. R. N. Ehrhart and H. M. Graham. No. 1,332,188; Feb. 24; v. 271; p. 652.
Condenser. R. J. Fitzgerald. No. 1,337,549; Apr. 20; v. 273; p. 484.
Condenser. H. P. Gage. No. 1,333,303; Mar. 9; v. 272; p. 265.
Condenser. C. H. Simpson. No. 1,331,533; Feb. 24; v. 271; p. 530.
Condenser. R. W. Stearns. No. 1,349,792; Aug. 17; v. 277; p. 449.
Condenser. P. Thomas. No. 1,351,074; Aug. 31; v. 277; p. 806.
Condenser. P. Thomas. No. 1,354,146; Sept. 28; v. 278; p. 618.
Condenser, Adjustable. P. J. Howe. No. 1,360,279; Aug. 17; v. 277; p. 543.
Condenser and adjusting same. W. Dubilier. No. 1,334,140; Mar. 16; v. 272; p. 484.
Condenser and condensation. N. H. Hiller. No. 1,360,748; Nov. 30; v. 280; p. 914.
Condenser and cooler. R. S. Portham. No. 1,363,531; Dec. 28; v. 281; p. 641.
Condenser and making same. W. Dubilier. No. 1,345,754; July 6; v. 276; p. 84.
Condenser and making same. B. Macpherson. No. 1,341,336; May 25; v. 274; p. 711.
Condenser and making same. P. Thomas. No. 1,354,147; Sept. 28; v. 278; p. 618.
Condenser and separator. C. W. Hottmann. No. 1,342,810; June 8; v. 275; p. 288.
Condenser, By-product. A. Roberts. No. 1,333,631; Mar. 16; v. 272; p. 388.
Condenser, Detector-. J. J. Aurynger. No. 1,359,310; Nov. 16; v. 280; p. 516.
Condenser installation. R. N. Ehrhart. No. 1,342,103; June 1; v. 275; p. 96.
Condenser-plate construction. W. Dubilier. No. 1,334,142; Mar. 16; v. 272; p. 485.
Condenser, Self-protecting. W. Dubilier. No. 1,350,010; Aug. 17; v. 277; p. 491.
Condenser, Series. W. Dubilier. No. 1,327,593; Jan. 6; v. 270; p. 133.
Condenser, Surface. S. M. Lillie. No. 1,335,692; Mar. 30; v. 272; p. 882.
Condenser system and vacuum-pump. P. P. Bourne. No. 1,335,478; Mar. 30; v. 272; p. 841.
Condenser system and vacuum-pump. P. Diserens. No. 1,344,994; June 29; v. 275; p. 908.
Condenser unit and making same. W. H. Richter. No. 1,351,787; Sept. 7; v. 278; p. 14.
Condensers, Auxiliary apparatus for. R. Suczek. No. 1,342,471; June 8; v. 275; p. 221.
Condensers, Building-stand for. B. Macpherson. No. 1,337,246; Apr. 20; v. 273; p. 427.
Condensers, Reheating process for. B. Macpherson. No. 1,337,245; Apr. 20; v. 273; p. 427.
Condensing apparatus. J. B. Cottard. No. 1,337,200; Apr. 20; v. 273; p. 418.
Condensing apparatus. R. N. Ehrhart. No. 1,352,437; Sept. 14; v. 278; p. 174.
Condensing apparatus. F. Ljungström. No. 1,330,081; Feb. 10; v. 271; p. 169.
Condensing apparatus. I. S. Merrell. No. 1,356,082; Oct. 19; v. 279; p. 414.
Condensing apparatus. J. C. Morton. No. 1,354,122; Sept. 28; v. 278; p. 613.
Condiment-holder. P. P. de Aguiar. No. 1,346,007; July 6; v. 276; p. 134.
Condiment-holder. E. Ament. No. 1,342,524; June 8; v. 275; p. 231.
Condiment-holder. C. Douledes. No. 1,339,173; May 4; v. 274; p. 97.
Condiment-holder. L. Reyes. No. 1,330,720; Feb. 10; v. 271; p. 288.
Condiment-holder. W. Schneider. No. 1,362,442; Dec. 14; v. 281; p. 337.
Condiment-holder. A. Service. No. 1,354,626; Oct. 5; v. 279; p. 36.
Condiment-holder. A. Stone. No. 1,350,120; Aug. 17; v. 277; p. 512.
Condiment-holders, Closure for. L. M. Ortiz and L. E. Reed. No. 1,354,333; Sept. 28; v. 278; p. 656.
Condiment-stopper. E. J. Palmer. No. 1,328,447; Jan. 20; v. 270; p. 392.
Conductor, Leading-in. J. H. Anderson. No. 1,331,085; Feb. 17; v. 271; p. 427.

Digitized by Google

Conductors, Connector for armored. D. C. Overbagh. No. 1,328,290; Jan. 20; v. 270; p. 382.
Conductors, Support for line-. L. E. Hendee. No. 1,339,391; May 11; v. 274; p. 212.
Conduit-cleaner. E. Hall. No. 1,338,917; May 4; v. 274; p. 49.
Conduit, Conveyer-. L. A. Griffin. No. 1,342,167; June 1; v. 275; p. 109.
Conduit cut-off, Auto safety. C. D. Crocker. No. 1,359,035; Nov. 16; v. 280; p. 464.
Conduit, Fabric. V. C. Gilpin and J. E. McAuliffe. No. 1,344,501; June 22; v. 275; p. 749.
Conduit, Gas-producer. P. d'H. Dressler. No. 1,354,542; Oct. 5; v. 279; p. 19.
Conduit, Open-slot. F. P. Lawrence. No. 1,350,658; Aug. 24; v. 277; p. 663.
Conduit or pipe protector. P. McIlroy. No. 1,329,984; Feb. 3; v. 271; p. 119.
Conduit-support. T. E. Kirkpatrick. No. 1,332,503; Mar. 2; v. 272; p. 63.
Conduit, Valvular. N. Tesla. No. 1,329,559; Feb. 3; v. 271; p. 40.
Conduit, Vitrified-tile. C. Gottwald. No. 1,357,702; Nov. 2; v. 280; p. 95.
Conduits, Apparatus for joining the movable parts with stationary parts of steam or other. G. Meyer. No. 1,356,215; Oct. 19; v. 279; p. 441.
Conduits, Machine for making metallic. O. F. Palmer. No. 1,334,787; Mar. 23; v. 272; p. 652.
Conduits, Telescopic joint for high-pressure water-. T. Heyerdahl. No. 1,332,836; Mar. 2; v. 272; p. 126.
Cone-baking machine. G. O. Robinson. No. 1,346,338; July 13; v. 276; p. 262.
Cone machines, Pastry-feeding mechanism for pastry. C. F. Betz. No. 1,347,073; July 20; v. 276; p. 466.
Cone-rolling machine. E. J. Drouillard. No. 1,350,859; Aug. 24; v. 277; p. 702.
Cone-sack. H. W. Smith. No. 1,349,535; Aug. 10; v. 277; p. 326.
Cones, Machine for making pastry. P. Arduin. No. 1,332,590; Mar. 2; v. 272; p. 80.
Cones, Machine for making pastry-. P. Arduin. No. 1,337,500; Apr. 20; v. 273; p. 475.
Confection-box. W. W. Wachtel. No. 1,336,874; Apr. 13; v. 273; p. 282.
Confection-making apparatus. T. Bösshard. No. 1,338,354; Apr. 27; v. 273; p. 707.
Confectionery-coating machine. A. L. Bausman. No. 1,341,253; May 25; v. 274; p. 695.
Confectionery-machine. E. J. Brach. No. 1,348,081; July 27; v. 276; p. 722.
Confectionery-machine. O. G. Kiefer. No. 1,341,137; May 25; v. 274; p. 673.
Confectionery-machines, Nut-depositor for. W. E. McCorkle. No. 1,343,924; June 22; v. 275; p. 636.
Confections, Coating. G. R. Baker. No. 1,350,538; Aug. 24; v. 277; p. 640.
Confections, Machine for wrapping. J. P. Remington. No. 1,352,629; Sept. 14; v. 278; p. 212.
Conformator. C. A. Newberg and E. I. Weisberger. No. 1,328,538; Jan. 20; v. 270; p. 409.
Conical mill. H. W. Hardinge. No. 1,355,474; Oct. 12; v. 279; p. 255.
Connecting-block and fuse-block, Combined. R. B. Benjamin. No. 1,352,778; Sept. 14; v. 278; p. 243.
Connecting device. L. E. Scott. No. 1,355,169; Oct. 12; v. 279; p. 196.
Connecting-rod. J. Kindervater. No. 1,347,104; July 20; v. 276; p. 471.
Connecting-rod. H. B. Layman. No. 1,340,171; May 18; v. 274; p. 419.
Connecting-rod. H. B. Layman. No. 1,340,172; May 18; v. 274; p. 419.
Connecting-rod. H. B. Layman. No. 1,340,173; May 18; v. 274; p. 419.
Connecting-rod. V. Notareschi. No. 1,359,269; Nov. 16; v. 280; p. 508.
Connecting-rod. R. V. Pearson. No. 1,359,737; Nov. 23; v. 280; p. 646.
Connecting-rod. A. R. Pribil. No. 1,355,261; Oct. 12; v. 279; p. 214.
Connecting-rod. R. A. Weinhardt. No. 1,350,580; Aug. 24; v. 277; p. 649.
Connecting-rod assembly. E. A. Field. No. 1,329,389; Feb. 3; v. 271; p. 9.
Connecting-rod-bearing take-up, Automatic. M. Reitz. No. 1,362,176; Dec. 14; v. 281; p. 285.
Connecting-rods, Making. A. R. Pribil. No. 1,350,177; Aug. 17; v. 277; p. 523.
Connecting-rods, Making. A. R. Pribil. No. 1,350,178; Aug. 17; v. 277; p. 523.
Connection device. A. J. Le Tarte. No. 1,355,678; Oct. 12; v. 279; p. 294.
Connection or joint and making same. C. F. Snyder. No. 1,348,667; Aug. 3; v. 277; p. 104.
Connector. R. A. Becker. No. 1,328,612; Jan. 20; v. 270; p. 423.
Connector. R. A. Becker. No. 1,331,179; Feb. 17; v. 271; p. 443.
Connector. G. W. Katzung. No. 1,331,928; Feb. 24; v. 271; p. 604.
Connector-clip. G. A. Schaefer. No. 1,327,844; Jan. 13; v. 270; p. 241.
Connector, Detachable. E. Schwartz. No. 1,359,280; Nov. 16; v. 280; p. 510.
Connector, T, Y, and L. R. A. Becker. No. 1,345,982; July 6; v. 276; p. 130.
Connectors, Making. H. B. Sherman. No. 1,352,034; Sept. 7; v. 278; p. 62.
Conserve-boxes, Apparatus for opening and manufacturing. E. Wolff. No. 1,356,581; Oct. 26; v. 279; p. 558.
Construction material, Making. R. P. Perry. No. 1,338,037; Apr. 27; v. 273; p. 647.
Contact. T. B. Rider. No. 1,348,052; July 27; v. 276; p. 717.
Contact device. G. B. Reisbach. No. 1,328,450; Jan. 20; v. 270; p. 392.
Contact member. P. MacGahan. No. 1,358,765; Nov. 16; v. 280; p. 412.
Contact process. H. E. Potts. No. 1,335,257; Mar. 30; v. 272; p. 800.
Contact-terminals, Protective means for. C. A. Boddie. No. 1,358,701; Nov. 16; v. 280; p. 399.
Container. L. G. Andrews. No. 1,360,863; Nov. 30; v. 280; p. 936.
Container. T. S. Catlin. No. 1,351,325; Aug. 31; v. 277; p. 856.
Container. C. H. Congdon. No. 1,346,298; July 13; v. 276; p. 254.
Container. F. Goertz and R. Whitcomb. No. 1,345,359; July 6; v. 276; p. 6.
Container. F. Goertz and R. Whitcomb. No. 1,345,360; July 6; v. 276; p. 7.
Container. J. G. Hodgson. No. 1,332,839; Mar. 2; v. 272; p. 127.
Container. G. A. Le Fevre and W. B. Hutchinson. No. 1,341,060; May 25; v. 274; p. 658.
Container. F. P. McColl. No. 1,362,713; Dec. 21; v. 281; p. 442.
Container. C. H. Nowack. No. 1,354,914; Oct. 5; v. 279; p. 93.
Container. S. W. Oglesby. No. 1,345,021; June 29; v. 275; p. 913.
Container. J. S. Peoples. No. 1,340,078; May 11; v. 274; p. 343.
Container. P. H. Quinn. No. 1,351,187; Aug. 31; v. 277; p. 828.
Container. E. E. Ragon. No. 1,330,344; Feb. 10; v. 271; p. 218.
Container. J. E. Romig. No. 1,360,688; Nov. 30; v. 280; p. 901.
Container. W. H. Rose. No. 1,361,618; Dec. 7; v. 281; p. 129.
Container. L. J. Schumaker. No. 1,342,069; June 1; v. 275; p. 89.
Container. H. G. Thompson. No. 1,345,036; June 29; v. 275; p. 916.
Container. F. Weber. No. 1,356,801; Oct. 26; v. 279; p. 601.
Container. R. Whitcomb. No. 1,362,975; Dec. 21; v. 281; p. 492.
Container. A. W. Wilkinson. No. 1,341,403; May 25; v. 274; p. 724.
Container. J. M. Wilson. No. 1,342, 243; June 1; v. 275; p. 124.
Container and closure therefor. R. V. Marceron. No. 1,351,920; Sept. 7; v. 278; p. 42.
Container and dispensing device. C. J. Rothermel. No. 1,347,231; July 20; v. 276; p. 496.
Container and exhibiting device, Combined. S. H. Goldberg. No. 1,330,259; Feb. 10; v. 271; p. 202.
Container and making same. T. W. Bigoney. No. 1,327,190; Jan. 6; v. 270; p. 58.
Container and making same, Transparent walled. J. Dister. No. 1,356,344; Oct. 19; v. 279; p. 466.
Container attachment. L. L. Cook. No. 1,332,805; Mar. 2; v. 272; p. 120.
Container, Bottle-. H. Wildberg and F. W. Hoeltge. No. 1,331,607; Feb. 24; v. 271; p. 544.
Container-closure. T. T. Layng. No. 1,361,388; Dec. 7; v. 281; p. 81.
Container-closure. I. A. Pryde. No. 1,343,474; June 15; v. 275; p. 480.
Container-closure. S. N. Tevander. No. 1,348,601; Aug. 3; v. 277; p. 92.
Container, Collapsible. H. P. Beers and L. S. Rysdon. No. 1,335,643; Mar. 30; v. 272; p. 872.
Container, Collapsible. J. R. and M. B. Driver. No. 1,336,895; Apr. 13; v. 273; p. 286.
Container, Collapsible. R. W. Shulters. No. 1,345,511; July 6; v. 276; p. 36.
Container, Collapsible. J. A. Walgren. No. 1,344,601; June 22; v. 275; p. 768.
Container, Collapsible. S. L. Walker and J. M. Laurenson. No. 1,346,731; July 13; v. 276; p. 339.
Container, Combination washrag and soap. G. Virneburg. No. 1,351,311; Aug. 31; v. 277; p. 853.
Container, Condiment-. E. Nicholas. No. 1,337,789; Apr. 20; v. 273; p. 530.
Container-cover-mounted cutter. W. F. McKenna. No. 1,361,080; Dec. 7; v. 281; p. 20.
Container-cover-retaining means. E. H. Luckett. No. 1,331,470; Feb. 17; v. 271; p. 497.

Digitized by Google

Alphabetical list of inventions—Continued.

Container, Dispensing-. J. G. Jonassen. No. 1,363,656; Dec. 28; v. 281; p. 665.
Container, Dispensing-. W. T. Lazar. No. 1,331,112; Feb. 17; v. 271; p. 431.
Container, Fluid-. A. J. Herschmann. No. 1,351,330; Aug. 31; v. 277; p. 857.
Container, Food-. J. A. McLane. No. 1,332,508; Mar. 2; v. 272; p. 64.
Container for brick. J. B. Walker. No. 1,331,544; Feb. 24; v. 271; p. 532.
Container for comminuted material. H. B. Pruden. No. 1,339,977; May 11; v. 274; p. 324.
Container for explosives. K. K. V. Casey. No. 1,329,503; Feb. 3; v. 271; p. 31.
Container for fragile articles. W. H. Stevenson, Jr. No. 1,362,364; Dec. 14; v. 281; p. 322.
Container for liquids. L. M. Tolbert. No. 1,363,543; Dec. 28; v. 281; p. 643.
Container, Fumigating-. W. J. Scherf. No. 1,351,263; Aug. 31; v. 277; p. 843.
Container, Handle-opening dished-lid. O. A. Kurt and S. C. Bartholdi. No. 1,361,592; Dec. 7; v. 281; p. 124.
Container, Heat-insulated. L. A. Heinle. No. 1,330,704; Feb. 10; v. 271; p. 285.
Container-holder. S. Frey. No. 1,337,010; Apr. 13; v. 273; p. 308.
Container-holder. J. Hula. No. 1,345,857; July 6; v. 276; p. 104.
Container-holder. H. J. York. No. 1,350,908; Aug. 24; v. 277; p. 711.
Container, Insect-poison-supply. L. J. Fairbanks. No. 1,327,230; Jan. 6; v. 270; p. 66.
Container, Knockdown. N. St. Peter. No. 1,334,186; Mar. 16; v. 272; p. 492.
Container lifter and carrier. F. Mullen. No. 1,330,487; Feb. 10; v. 271; p. 245.
Container, Liquid-. C. S. Baron. No. 1,340,872; May 25; v. 274; p. 621.
Container, Mixing-. E. S. Jarrett. No. 1,332,985; Mar. 9; v. 272; p. 206.
Container, Metal. A. Schroeder. No. 1,344,455; June 22; v. 275; p. 739.
Container, Metallic. A. Schroeder. No. 1,344,456; June 22; v. 275; p. 740.
Container or box. H. Drysdale. No. 1,362,090; Dec. 14; v. 281; p. 269.
Container-piercing and tank-filling machine. A. E. King. No. 1,337,558; Apr. 20; v. 273; p. 485.
Container pouring-cap. F. Spruill. No. 1,361,290; Dec. 7; v. 281; p. 61.
Container, Preserving. W. W. Palmer. No. 1,343,579; June 15; v. 275; p. 502.
Container, Safety-. E. F. Nissen. No. 1,340,553; May 18; v. 274; p. 490.
Container, Safety-. E. F. Nissen. No. 1,340,555; May 18; v. 274; p. 491.
Container, Sanitary. C. O. Chromaster. No. 1,337,195; Apr. 20; v. 273; p. 417.
Container, Sanitary. M. Mislikowsky. No. 1,357,072; Oct. 26; v. 279; p. 655.
Container, Sanitary handkerchief-. M. H. V. Otwell. No. 1,331,666; Feb. 24; v. 271; p. 555.
Container, Sealed-top. F. A. Dorsch. No. 1,359,970; Nov. 23; v. 280; p. 698.
Container, Self-opening. C. Gueritey. No. 1,341,505; May 25; v. 274; p. 744.
Container, Soap-. L. E. Wood. No. 1,351,273; Aug. 31; v. 277; p. 845.
Container, Storage-. J. R. and M. B. Driver. No. 1,336,896; Apr. 13; v. 273; p. 286.
Container structure. J. P. Markert. No. 1,342,002; June 8; v. 275; p. 326.
Container-support. H. C. Downey. No. 1,329,513; Feb. 3; v. 271; p. 32.
Container, Toilet-accessory. M. J. Harding. No. 1,346,541; July 13; v. 276; p. 301.
Container with adjustable false bottom. T. C. Potts and A. R. Mann. No. 1,341,927; June 1; v. 275; p. 62.
Containers by pressure, Apparatus for closing. H. A. Pernot. No. 1,329,140; Jan. 27; v. 270; p. 552.
Containers, cans, or the like, Closure for. L. H. Tucker. No. 1,361,419; Dec. 7; v. 281; p. 88.
Containers, cases, reservoirs, &c., carried by aircraft at a required temperature, Maintaining the contents of. J. W. Copley and A. C. Thornton. No. 1,359,967; Nov. 23; v. 280; p. 692.
Containers, Closure for metal. A. Schroeder. No. 1,355,918; Oct. 19; v. 279; p. 381.
Containers, Constructing. W. H. Kempton. No. 1,332,045; Feb. 24; v. 271; p. 627.
Containers, Display means for transparent. L. H. Shover. No. 1,329,861; Feb. 3; v. 271; p. 97.
Containers, Holder for liquid-. W. F. Close. No. 1,339,163; May 4; v. 274; p. 95.
Containers, Sealing-closure for. W. P. White. No. 1,345,722; July 6; v. 276; p. 77.
Containers, Sifter-top for. J. T. Wilcox. No. 1,345,975; July 6; v. 276; p. 128.
Containing apparatus and valve system therefor. C. F. Crommett. No. 1,353,320; Sept. 21; v. 278; p. 408.
Containing device. M. Alvarez y Valdés. No. 1,357,304; Nov. 2; v. 280; p. 20.
Continuous tunnel-kiln. P. A. Meehan. No. 1,355,407; Oct. 12; v. 279; p. 242.
Contractor-expander. A. C. Hoecker. No. 1,337,652; Apr. 20; v. 273; p. 503.
Contribution-box, Registering. F. W. Lancaster. No. 1,348,012; July 27; v. 276; p. 708.
Control and release device. E. B. Thurston. No. 1,330,411; Feb. 10; v. 271; p. 281.
Control apparatus. H. Brewer. No. 1,356,804; Oct. 26; v. 279; p. 602.
Control apparatus. A. H. Candee. No. 1,351,022; Aug. 31; v. 277; p. 796.
Control apparatus. O. A. Colby. No. 1,361,966; Dec. 14; v. 281; p. 244.
Control apparatus. A. J. Hall. No. 1,336,560; Apr. 13; v. 273; p. 221.
Control apparatus. A. J. Hall. No. 1,352,447; Sept. 14; v. 278; p. 176.
Control apparatus. A. J. Hall and C. C. Whittaker. No. 1,352,448; Sept. 14; v. 278; p. 176.
Control apparatus. O. P. Hipple. No. 1,349,380; Aug. 10; v. 277; p. 296.
Control apparatus. O. P. Hipple. No. 1,358,740; Nov. 16; v. 280; p. 407.
Control apparatus. P. L. Mardis. No. 1,336,574; Apr. 13; v. 273; p. 224.
Control apparatus. P. L. Mardis. No. 1,343,218; June 15; v. 275; p. 432.
Control apparatus. P. L. Mardis. No. 1,343,219; June 15; v. 275; p. 432.
Control apparatus. P. L. Mardis. No. 1,358,769; Nov. 16; v. 280; p. 412.
Control apparatus. F. G. Moard. No. 1,333,626; Mar. 16; v. 272; p. 387.
Control apparatus. F. G. Moard. No. 1,338,321; Apr. 27; v. 273; p. 700.
Control apparatus. T. S. Pukerud. No. 1,339,906; May 11; v. 274; p. 311.
Control apparatus. L. G. Riley. No. 1,332,066; Feb. 24; v. 271; p. 630.
Control apparatus. L. G. Riley. No. 1,333,681; Mar. 16; v. 272; p. 398.
Control apparatus. L. G. Riley. No. 1,336,583; Apr. 13; v. 273; p. 226.
Control apparatus. K. A. Simmon. No. 1,343,232; June 15; v. 275; p. 435.
Control apparatus. K. A. Simmon. No. 1,363,679; Dec. 28; v. 281; p. 669.
Control apparatus. W. H. Smith. No. 1,352,483; Sept. 14; v. 278; p. 183.
Control apparatus. N. W. Storer. No. 1,336,596; Apr. 13; v. 273; p. 228.
Control apparatus. C. C. Whittaker. No. 1,347,880; July 27; v. 276; p. 682.
Control apparatus. C. C. Whittaker. No. 1,361,947; Dec. 14; v. 281; p. 240.
Control apparatus. T. C. Wurts. No. 1,347,885; July 27; v. 276; p. 683.
Control brake equipment, Remote-. W. V. Turner. No. 1,339,680; May 11; v. 274; p. 269.
Control mechanism. E. G. Gartin. No. 1,363,203; Dec. 21; v. 281; p. 537.
Control mechanism. E. C. Head. No. 1,353,836; Sept. 28; v. 278; p. 555.
Control mechanism. C. B. Kirkham and A. L. Thurston. No. 1,363,794; Dec. 28; v. 281; p. 692.
Control mechanism. E. Williams. No. 1,353,369; Sept. 21; v. 278; p. 418.
Control mechanism, Variable automatic. G. W. Swift, Jr. No. 1,343,487; June 15; v. 275; p. 483.
Control-switch. J. Eaton. No. 1,350,924; Aug. 24; v. 277; p. 714.
Control system. E. M. Bouton. No. 1,363,635; Dec. 28; v. 281; p. 661.
Control system. G. Bright. No. 1,355,533; Oct. 12; v. 279; p. 267.
Control system. G. Bright, G. H. F. Holy, and H. K. Hardcastle. No. 1,347,890; July 27; v. 276; p. 684.
Control system. A. H. Candee. No. 1,352,427; Sept. 14; v. 278; p. 172.
Control system. A. H. Candee. No. 1,354,167; Sept. 28; v. 278; p. 622.
Control system. A. H. Candee. No. 1,358,704; Nov. 16; v. 280; p. 399.
Control system. J. A. Clarke, Jr. No. 1,339,945; May 11; v. 274; p. 319.
Control system. J. A. Clarke, Jr. No. 1,354,168; Sept. 28; v. 278; p. 622.
Control system. R. E. Ferris. No. 1,355,549; Oct. 12; v. 279; p. 270.
Control system. A. J. Hall. No. 1,349,875; Aug. 10; v. 277; p. 295.
Control system. R. E. Hellmund. No. 1,327,819; Jan. 13; v. 270; p. 237.
Control system. R. E. Hellmund. No. 1,327,822; Jan. 13; v. 270; p. 238.
Control system. R. E. Hellmund. No. 1,327,823; Jan. 13; v. 270; p. 238.
Control system. R. E. Hellmund. No. 1,328,513; Jan. 20; v. 270; p. 405.
Control system. R. E. Hellmund. No. 1,328,514; Jan. 20; v. 270; p. 405.

Digitized by Google

Control system. R. E. Hullmund. No. 1,328,515; Jan. 20; v. 270; p. 405.
Control system. R. E. Hellmund. No. 1,329,243; Jan. 27; v. 270; p. 571.
Control system. R. E. Hellmund. No. 1,335,107; Mar. 30; v. 272; p. 773.
Control system. R. E. Hellmund. No. 1,335,111; Mar. 30; v. 272; p. 774.
Control system. R. E. Hellmund. No. 1,335,112; Mar. 30; v. 272; p. 774.
Control system. R. E. Hellmund. No. 1,336,562; Apr. 13; v. 273; p. 222.
Control system. R. E. Hellmund. No. 1,339,929; May 11; v. 274; p. 315.
Control system. R. E. Hellmund. No. 1,343,210; June 15; v. 275; p. 431.
Control system. R. E. Hellmund. No. 1,343,211; June 15; v. 275; p. 431.
Control system. R. E. Hellmund. No. 1,344,762; June 29; v. 275; p. 865.
Control system. R. E. Hellmund. No. 1,344,763; June 29; v. 275; p. 865.
Control system. R. E. Hellmund. No. 1,347,905; July 27; v. 276; p. 687.
Control system. R. E. Hellmund. No. 1,349,376; Aug. 10; v. 277; p. 295.
Control system. R. E. Hellmund. No. 1,354,188; Sept. 28; v. 278; p. 626.
Control system. R. E. Hellmund. No. 1,355,475; Oct. 12; v. 279; p. 255.
Control system. R. E. Hellmund. No. 1,358,735; Nov. 16; v. 280; p. 406.
Control system. R. E. Hellmund. No. 1,358,737; Nov. 16; v. 280; p. 406.
Control system. R. E. Hellmund. No. 1,358,738; Nov. 16; v. 280; p. 406.
Control system. R. E. Hellmund. No. 1,360,745; Nov. 30; v. 280; p. 913.
Control system. R. E. Hellmund. No. 1,360,746; Nov. 30; v. 280; p. 913.
Control system. R. E. Hellmund. No. 1,361,991; Dec. 14; v. 281; p. 250.
Control system. R. E. Hellmund. No. 1,361,992; Dec. 14; v. 281; p. 250.
Control system. R. E. Hellmund. No. 1,361,993; Dec. 14; v. 281; p. 250.
Control system. R. E. Hellmund. No. 1,361,994; Dec. 14; v. 281; p. 250.
Control system. R. E. Hellmund. No. 1,361,995; Dec. 14; v. 281; p. 250.
Control system. P. L. Mardis. No. 1,355,490; Oct. 12; v. 279; p. 259.
Control system. F. H. Miller. No. 1,341,657; June 1; v. 275; p. 8.
Control system. L. M. Perkins. No. 1,335,127; Mar. 30; v. 272; p. 777.
Control system. L. G. Riley. No. 1,341,675; June 1; v. 275; p. 12.
Control system. S. B. Schenck and K. A. Simmon. No. 1,330,554; Feb. 10; v. 271; p. 257.
Control system. T. H. Schoepf. No. 1,352,480; Sept. 14; v. 278; p. 183.
Control system. W. M. Scott. No. 1,336,488; Apr. 13; v. 273; p. 207.
Control system. K. A. Simmon and S. B. Schenck. No. 1,330,557; Feb. 10; v. 271; p. 258.
Control system. K. A. Simmons. No. 1,338,333; Apr. 27; v. 273; p. 702.
Control system. G. F. Smith. No. 1,327,784; Jan. 13; v. 270; p. 230.
Control system. N. W. Storer. No. 1,327,789; Jan. 13; v. 270; p. 231.
Control system. J. F. Tritle. No. 1,357,746; Nov. 2; v. 280; p. 104.
Control system. C. C. Whittaker. No. 1,327,795; Jan. 13; v. 270; p. 232.
Control system, Automatic-. M. E. Leeds. No. 1,332,182; Feb. 24; v. 271; p. 651.
Control, System of. C. P. Taylor. No. 1,363,757; Dec. 28; v. 281; p. 684.
Control system. Selective. A. U. Särnmark. No. 1,347,715; July 27; v. 276; p. 649.
Controller. C. H. Hodgkins. No. 1,354,191; Sept. 28; v. 278; p. 627.
Controller. H. D. James. No. 1,354,193; Sept. 28; v. 278; p. 628.
Controller. H. D. James. No. 1,362,003; Dec. 14; v. 281; p. 252.
Controller. J. R. Langley. No. 1,343,214; June 15; v. 275; p. 431.
Controller. H. R. Meyer. No. 1,355,497; Oct. 12; v. 279; p. 260.
Controller. T. S. Pukerud. No. 1,336,582; Apr. 13; v. 273; p. 225.
Controller. T. S. Pukerud. No. 1,357,249; Nov. 2; v. 280; p. 10.
Controller. J. W. Richards. No. 1,363,055; Dec. 21; v. 281; p. 509.
Controller-accentuating device. W. S. Roberts. No. 1,333,733; Mar. 16; v. 272; p. 408.
Controller, Automatic. A. McKibben. No. 1,345,383; July 6; v. 276; p. 11.
Controller mechanism. K. R. Akerlund. No. 1,357,672; Nov. 2; v. 280; p. 89.
Controller mechanism. T. S. Pukerud. No. 1,330,610; Feb. 10; v. 271; p. 267.
Controlling and regulating apparatus. F. W. Meyer. No. 1,353,816; Sept. 21; v. 278; p. 506.
Controlling and stabilizing device. E. E. G. Hedenstrom. No. 1,335,055; Mar. 30; v. 272; p. 763.
Controlling device. H. Catlin. No. 1,340,930; May 25; v. 274; p. 632.
Controlling device. E. H. Clark. No. 1,334,735; Mar. 23; v. 272; p. 641.
Controlling device. F. F. Main. No. 1,342,338; June 1; v. 275; p. 141.
Controlling means. W. W. Lasker. No. 1,352,006; Sept. 7; v. 278; p. 58.
Controlling mechanism. E. Williams. No. 1,353,368; Sept. 21; v. 278; p. 418.
Controlling-switch. D. J. McCarthy. No. 1,338,501; Mar. 9; v. 272; p. 303.
Converter and gas-burner, Combined kerosene-. H. A. Smock. No. 1,359,284; Nov. 16; v. 280; p. 510.
Converter, Vibratory. O. M. Leich. No. 1,338,380; Apr. 27; v. 273; p. 711.
Convertible chair. L. R. Flint. No. 1,358,142: Nov. 9; v. 280; p. 242.
Convertible chair. J. J. South. No. 1,345,513; July 6; v. 276; p. 36.
Convertible chair. S. Singleterry. No. 1,347,127; July 20; v. 276; p. 475.
Convertible wheel. E. L. Keesling. No. 1,350,813; Aug. 24; v. 277; p. 694.
Converting system. L. W. Chubb. No. 1,357,223; Nov. 2; v. 280; p. 5.
Conveyance. G. A. H. Muller. No. 1,335,520; Mar. 30; v. 272; p. 849.
Conveyer. J. A. Anderson. No. 1,342,789; June 8; v. 275; p. 284.
Conveyer. G. Bernert. (Reissue.) No. 14,841; Apr. 20; v. 273; p. 568.
Conveyer. J. T. Cowley. No. 1,351,554; Aug. 31; v. 277; p. 902.
Conveyer. H. O'B. Harding. No. 1,352,263; Sept. 7; v. 278; p. 105.
Conveyer. J. L. Hiatt. No. 1,334,458; Mar. 23; v. 272; p. 589.
Conveyer. N. D. Levin. No. 1,358,167; Nov. 9; v. 280; p. 247.
Conveyer. J. A. MacLennan. No. 1,331,020; Feb. 17; v. 271; p. 415.
Conveyer. B. A. Parkes. No. 1,328,099; Jan. 13; v. 270; p. 289.
Conveyer. M. W. Peasley. No. 1,335,076; Mar. 30; v. 272; p. 767.
Conveyer. W. Pines. No. 1,352,312; Sept. 7; v. 278; p. 115.
Conveyer. R. Rafn. No. 1,344,246; June 22; v. 275; p. 697.
Conveyer. J. Raymond, Jr. No. 1,345,634; July 6; v. 276; p. 60.
Conveyer. H. O. Scranton. No. 1,358,024; Nov. 9; v. 280; p. 218.
Conveyer. H. F. Smith. No. 1,335,205; Mar. 30; v. 272; p. 791.
Conveyer. D. W. Starkey. No. 1,355,180; Oct. 12; v. 279; p. 198.
Conveyer. W. J. Voelker. No. 1,348,671; Aug. 3; v. 277; p. 105.
Conveyer. J. L. Wentz. (Reissue.) No. 14,977; Nov. 2; v. 280; p. 141.
Conveyer and leer, Automatic. W. S. Mayers. No. 1,338,240; Apr. 27; v. 273; p. 685.
Conveyer, Ash-. A. Girtanner. No. 1,346,950; July 20; v. 276; p. 441.
Conveyer, Auto-. E. H. Camfield. No. 1,357,442; Nov. 2; v. 280; p. 46.
Conveyer, Belt. N. S. Harter. No. 1,354,553; Oct. 5; v. 279; p. 21.
Conveyer-belt cleaner. C. A. Winters. No. 1,330,967; Feb. 17; v. 271; p. 404.
Conveyer-brake. F. Hubbard. No. 1,327,559; Jan. 6; v. 270; p. 127.
Conveyer-chain. R. E. Briggs. No. 1,361,821; Dec. 14; v. 281; p. 215.
Conveyer, Chain. R. W. Patten, D. G. Davis, and E. L. Burleigh. No. 1,335,696; Mar. 30; v. 272; p. 883.
Conveyer-chain and link thereof. R. B. Elledge. No. 1,335,673; Mar. 30; v. 272; p. 879.
Conveyer-chains, Flight attachment for. R. W. Patten, D. G. Davis, and E. L. Burleigh. No. 1,335,697; Mar. 30; v. 272; p. 883.
Conveyer, Endless. J. P. Roe. No. 1,363,533; Dec. 28; v. 281; p. 641.
Conveyer-feed control. E. H. Messiter. No. 1,344,768; June 29; v. 275; p. 866.
Conveyer for newspapers, Twist-belt. C. S. Jennings. No. 1,332,900; Mar. 9; v. 272; p. 190.
Conveyer, Gravity-. P. C. Wego. No. 1,353,875; Sept. 28; v. 278; p. 563.
Conveyer-idler. L. De Young. No. 1,332,815; Mar. 2; v. 272; p. 122.

Digitized by Google

Alphabetical list of inventions—Continued.

Conveyer, Metallic belt. W. E. Hunt. No. 1,330,116; Feb. 10; v. 271; p. 176.
Conveyer or elevator, Smooth-band. J. L. Lemoine. No. 1,342,684; June 8; v. 275; p. 262.
Conveyer or elevator system, Counter attachment for. H. Harrington. No. 1,333,975; Mar. 16; v. 272; p. 458.
Conveyer, Pallet-. A. O. Dupuy. No. 1,357,315; Nov. 2; v. 280; p. 22.
Conveyer, Pneumatic. L. C. Vanderlip. No. 1,346,144; July 13; v. 276; p. 223.
Conveyer, Pneumatic. C. B. Weaver and A. G. Fleck. No. 1,360,160; Nov. 23; v. 280; p. 730.
Conveyer, Portable. L. B. Neighbour. No. 1,353,841; Sept. 28; v. 278; p. 556.
Conveyer, Progressive manufacture. E. B. Thurston. No. 1,352,928; Sept. 14; v. 278; p. 272.
Conveyer-roller. W. E. Zoeller and J. E. Ulrich. No. 1,362,910; Dec. 21; v. 281; p. 480.
Conveyer-rollers. Bearing for. P. C. Wego. No. 1,353,874; Sept. 28; v. 278; p. 562.
Conveyer-support. E. W. Bascom. No. 1,335,270; Mar. 30; v. 272; p. 802.
Conveyer system. F. L. Stuart. No. 1,339,486; May 11; v. 274; p. 231.
Conveyer system, Mail-distributing. S. Olson. No. 1,332,356; Mar. 2; v. 272; p. 85.
Conveyer system, Overhead. R. Oehler. No. 1,327,249; Jan. 6; v. 270; p. 69.
Conveyer system, Overhead roller. R. Oehler. No. 1,327,290; Jan. 6; v. 270; p. 77.
Conveyers, Support and gearing for swinging. A. J. Hartley. No. 1,327,469; Jan. 6; v. 270; p. 109.
Conveying and delivering materials, Apparatus for. F. L. Stuart. No. 1,331,464; Feb. 17; v. 271; p. 496.
Conveying and discharging apparatus. E. B. Stone. No. 1,342,975; June 8; v. 275; p. 320.
Conveying and elevating apparatus. H. O'B. Harding. No. 1,352,262; Sept. 7; v. 278; p. 105.
Conveying and stacking mechanism. J. N. Tsibides and R. H. Parker. No. 1,350,393; Aug. 24; v. 277; p. 612.
Conveying and timing apparatus for timing and delivering articles. J. C. Tallaferro, D. P. Robinson and J. Coyle. No. 1,355,184; Oct. 12; v. 279; p. 199.
Conveying and tipping apparatus. E. D. Tschache. No. 1,352,329; Sept. 7; v. 278; p. 118.
Conveying and treating materials, Process and apparatus for. G. I. Rhodes and H. V. Coes. No. 1,350,337; Aug. 24; v. 277; p. 600.
Conveying apparatus. F. L. Stuart. No. 1,346,990; July 20; v. 276; p. 449.
Conveying apparatus. G. B. Welser, Jr. No. 1,333,006; Mar. 9; v. 272; p. 210.
Conveying device. C. Pedersen. No. 1,343,373; June 15; v. 275; p. 461.
Conveying mechanism. J. Freud. No. 1,330,524; Feb. 10; v. 271; p. 252.
Conveying mechanism. A. B. Hazard. No. 1,346,814; July 13; v. 276; p. 257.
Conveying mechanism. H. M. Lane. No. 1,340,962; May 25; v. 274; p. 639.
Conveying mechanism. R. Leumann. No. 1,336,304; Apr. 6; v. 273; p. 113.
Conveying mechanism. J. W. Sheperdson. No. 1,352,766; Sept. 14; v. 278; p. 240.
Conveying system. F. L. Stuart. No. 1,331,883; Feb. 24; v. 271; p. 596.
Conveying system. F. L. Stuart. No. 1,335,455; Mar. 30; v. 272; p. 837.
Cooker. W. J. Schaefer. No. 1,328,239; Jan. 13; v. 270; p. 316.
Cooker. J. M. Shaw. No. 1,331,530; Feb. 24; v. 271; p. 529.
Cooker and canner, Steam-pressure attachment for. W. M. Ladd. No. 1,362,878; Dec. 21; v. 281; p. 474.
Cooker and sterilizer, Cereal. A. Johnson. No. 1,336,079; Apr. 6; v. 273; p. 71.
Cooker, Automatic. J. H. Jacobs. No. 1,341,748; June 1; v. 275; p. 27.
Cooker arrangement, Portable. F. Krüger. No. 1,354,044; Sept. 28; v. 278; p. 597.
Cooker, Electric. F. Kuhn and J. A. Hand. No. 1,330,877; Feb. 17; v. 271; p. 387.
Cooker, Electric. J. E. Lappen. No. 1,332,221; Mar. 2; v. 272; p. 8.
Cooker, Fireless. J. L. Snider. No. 1,328,304; Jan. 20; v. 270; p. 365.
Cooker, Grain and food. I. G. Dakin. No. 1,339,323; May 4; v. 274; p. 124.
Cooker, Pressure-. J. E. Waggoner. No. 1,337,981; Apr. 20; v. 273; p. 567.
Cooker, Steam-. W. A. Duncan. No. 1,331,005; Feb. 17; v. 271; p. 412.
Cooker, Submersible. P. Cammans. No. 1,331,620; Feb. 24; v. 271; p. 546.
Cooker, Submersible. P. Cammans. No. 1,362,224; Dec. 14; v. 281; p. 296.
Cookers and exhausts, Steam-conserver for cannery. O. L. Merritt and W. P. Jones. No. 1,344,809; June 29; v. 275; p. 874.
Cookers, Baffle-plate device for electric fireless. M. Murphy. No. 1,346,666; July 13; v. 276; p. 326.
Cooking and draining material in cans, Machine for. A. S. Davies. No. 135,509; Oct. 5; v. 279; p. 128.
Cooking apparatus. I. Hechenbleikner. No. 1,331,500; Feb. 24; v. 271; p. 523.
Cooking apparatus. P. T. Jackson. No. 1,329,408; Feb. 3; v. 271; p. 12.
Cooking apparatus. E. M. Lawrence. No. 1,350,030; Aug. 17; v. 277; p. 495.
Cooking apparatus. L. Meyer and R. Schiff. No. 1,341,960; June 1; v. 275; p. 68.
Cooking apparatus, Low-temperature. C. B. Trescott. No. 1,357,011; Oct. 26; v. 279; p. 643.
Cooking apparatus, Low-temperature. O. M. Wolff. No. 1,332,016; Feb. 24; v. 271; p. 621.
Cooking device. I. L. Bayless. No. 1,345,824; July 6; v. 276; p. 97.
Cooking device. W. Levy. No. 1,337,524; Apr. 20; v. 273; p. 579.
Cooking device. G. Tsekuras. No. 1,336,599; Apr. 13; v. 273; p. 229.
Cooking device, Cold-pack. C. S. Kepler. No. 1,345,601; July 6; v. 276; p. 64.
Cooking device, Combination. H. L. Mendal. No. 1,351,921; Sept. 7; v. 278; p. 42.
Cooking kit, Box. B. B. Gilbert. No. 1,330,862; Feb. 17; v. 271; p. 383.
Cooking-machine. W. E. Taylor. No. 1,330,456; Feb. 10; v. 271; p. 239.
Cooking-machines, Can-retainer for. H. L. Bryant and C. E. Stinchfield. No. 1,330,055; Feb. 10; v. 271; p. 164.
Cooking utensil. L. Armbruster. No. 1,338,547; Apr. 27; v. 273; p. 742.
Cooking utensil. O. R. Berger. No. 1,341,781; June 1; v. 275; p. 23.
Cooking utensil. C. H. Burlingham. No. 1,361,364; Dec. 7; v. 281; p. 77.
Cooking utensil. L. S. Chadwick. No. 1,334,930; Mar. 23; v. 272; p. 680.
Cooking utensil. F. Eidt. No. 1,356,432; Oct. 19; v. 279; p. 483.
Cooking utensil. K. Gammel. No. 1,349,567; Aug. 17; v. 277; p. 405.
Cooking utensil. H. Grob. No. 1,338,830; May 4; v. 274; p. 33.
Cooking utensil. H. C. Hanson. No. 1,355,332; Oct. 12; v. 279; p. 228.
Cooking utensil. G. L. Harrison. No. 1,330,868; Feb. 17; v. 271; p. 384.
Cooking utensil. J. A. Howard, Sr. No. 1,344,511; June 22; v. 275; p. 750.
Cooking utensil. G. F. Kinzel. No. 1,334,908; Mar. 23; v. 272; p. 675.
Cooking utensil. H. O. Larson. No. 1,338,378; Apr. 27; v. 273; p. 711.
Cooking utensil. C. A. Massing. No. 1,330,209; Feb. 10; v. 271; p. 193.
Cooking utensil. M. R. Murphy. No. 1,332,057; Feb. 24; v. 271; p. 629.
Cooking utensil. R. Pfeffer. No. 1,348,048; July 27; v. 276; p. 716.
Cooking utensil. L. V. Winter. No. 1,328,702; Jan. 20; v. 270; p. 439.
Cooking utensil. A. F. Wittekind. No. 1,347,428; July 20; v. 276; p. 535.
Cooking utensil. A. Zisk. No. 1,354,085; Sept. 28; v. 278; p. 606.
Cooking utensil, Demountable-spout. M. J. Callaghan. No. 1,361,441; Dec. 7; v. 281; p. 94.
Cooking-utensil lid. H. H. Pfisterer. No. 1,361,348; Dec. 7; v. 281; p. 74.
Cooking utensils, Attachment for. A. F. Lochner. No. 1,326,942; Jan. 6; v. 270; p. 12.
Cooking utensils, False bottom for. F. M. Colson. No. 1,343,114; June 8; v. 275; p. 348.
Cooking utensils, Implement-holder for. J. A. Burns. No. 1,327,982; Jan. 13; v. 270; p. 267.
Cooking utensils, Removable bottom for. B. J. Biddle. No. 1,345,119; June 29; v. 275; p. 932.
Cooking vessel. T. Harrington. No. 1,349,508; Aug. 10; v. 277; p. 321.
Cooking vessel and cover therefor. M. A. Walden. No. 1,344,886; June 29; v. 275; p. 879.
Cooking-vessel attachment. H. Ray. No. 1,347,971; July 27; v. 276; p. 700.
Cooking-vessel cover. E. Olson. No. 1,345,457; July 6; v. 276; p. 25.
Cook's dresser, store-cupboard, &c. J. Rodwell. No. 1,358,332; Nov. 9; v. 280; p. 280.
Cookie-box rack. C. Yuncker. No. 1,358,406; Nov. 9; v. 280; p. 295.
Cooky-boxes, Rack for holding. E. Riley and C. F. Yuncker. No. 1,345,244; June 29; v. 275; p. 956.
Cooler: *See*—
Cream-cooler.
Milk-cooler. Water-cooler.
Cooler. D. W. Grant. No. 1,336,742; Apr. 13; v. 273; p. 256.
Cooling and lubricating systems, Method and apparatus for. R. A. Fessenden. No. 1,331,907; Feb. 24; v. 271; p. 601.
Cooling device. H. S. Williams. No. 1,356,325; Oct. 19; v. 279; p. 462.
Cooling device for beds and sleeping compartments. R. N. Richardson. No. 1,327,214; Jan. 6; v. 270; p. 63.

Cooling-plate for continuous-rectification apparatus. E. A. Barbet. No. 1,328,259; Jan. 20; v. 270; p. 356.
Cooling system. W. W. Muir. No. 1,346,331; July 13; v. 276; p. 260.
Cooling-system control. B. W. Brockett. No. 1,328,815; Jan. 27; v. 270; p. 489.
Coop, Chicken-. A. G. Campbell. No. 1,342,371; June 1; v. 275; p. 148.
Coop, Collapsible. H. P. Galbreath. No. 1,344,877; June 29; v. 275; p. 886.
Coop, Folding chicken-. H. A. Barnard. No. 1,327,368; Jan. 6; v. 270; p. 91.
Coops, Vermin-exterminator for poultry-. C. F. Brown. No. 1,332,423; Mar. 2; v. 272; p. 48.
Coördinator. W. L. Owens. No. 1,340,623; May 18; v. 274; p. 504.
Cop-making apparatus. J. H. Renton. No. 1,353,613; Sept. 21; v. 278; p. 467.
Cop-mounting. W. A. Houck. No. 1,353,960; Sept. 28; v. 278; p. 580.
Cop or bobbin holder. E. F. Parks. No. 1,340,978; May 25; v. 274; p. 642.
Copper and its alloys, Deoxidizing. A. Strasser. No. 1,348,457; Aug. 3; v. 277; p. 64.
Copper and other metals, Process and apparatus for reclaiming and refining. A. R. Partridge. No. 1,352,912; Sept. 14; v. 278; p. 270.
Copper-bearing sands, Treating. C. H. Benedict and H. C. Kenny. No. 1,335,474; Mar. 30; v. 272; p. 840.
Copper containing compound for treating plant diseases and making it. G. Morselli. No. 1,362,172; Dec. 14; v. 281; p. 285.
Copper, Extracting. A. A. Ossa. No. 1,343,153; June 8; v. 275; p. 355.
Copper from hot solutions, Method of and apparatus for precipitating. F. Laist. No. 1,333,985; Mar. 16; v. 272; p. 455.
Copper from its ores and solutions, Recovery of. H. L. Sulman and H. F. K. Picard. No. 1,333,688; Mar. 16; v. 272; p. 399.
Copper from its ores, Extracting. L. D. Mills. No. 1,360,666; Nov. 30; v. 280; p. 897.
Copper from its ores, Recovering. C. J. A. Dalziel. No. 1,341,786; June 1; v. 275; p. 34.
Copper from ordnance, Automatic removal of. A. E. A. Dagory. No. 1,359,338; Nov. 16; v. 280; p. 522.
Copper, Hardening. D. T. Beckham. No. 1,331,479; Feb. 24; v. 271; p. 519.
Copper, Hardening. B. Kieffer. No. 1,359,810; Nov. 23; v. 280; p. 661.
Copper-lead-smelting process. W. M. Johnson. No. 1,333,720; Mar. 16; v. 272; p. 405.
Copper or copper-containing alloys, Method and device for the prevention of selective corrosion of tubes and machinery parts of. F. von Wurstemberger. No. 1,335,210; Mar. 30; v. 272; p. 791.
Copper or copper-containing alloys, Prevention of selective corrosion of tubes and machinery parts of. F. von Wurstemberger. No. 1,335,209; Mar. 30; v. 272; p. 791.
Copper ores with an SO_3 solution for the recovery of the copper therefrom, Treating. N. C. Christensen. No. 1,358,619; Nov. 9; v. 280; p. 337.
Copper-oxid plate, Producing a double-. G. S. Engle. No. 1,356,197; Oct. 19; v. 279; p. 437.
Copper, Process of and furnace for refining. F. L. Antisell. No. 1,348,470; Aug. 3; v. 277; p. 66.
Copper sulfate solutions from ores, Producing. J. S. Ross. No. 1,350,239; Aug. 17; v. 277; p. 535.
Copra-drying apparatus. J. D. McCord. No. 1,341,055; June 1; v. 275; p. 8.
Copy and book holder. H. Safford. No. 1,340,411; May 18; v. 274; p. 464.
Copy-guide. J. Schulthess. No. 1,353,279; Sept. 21; v. 278; p. 400.
Copy-holder. W. H. Averill. No. 1,328,476; Jan. 20; v. 270; p. 397.
Copy-holder. A. S. Golanke. No. 1,336,834; Apr. 13; v. 278; p. 274.
Copy-holder. B. T. Mills. No. 1,349,905; Aug. 17; v. 277; p. 471.
Copy-holder. R. M. Searle. No. 1,354,697; Oct. 5; v. 279; p. 50.
Copy-holder. A. N. Woodruff. No. 1,345,978; July 6; v. 276; p. 129.
Copy-holding and line-indicating device. G. L. Freet. No. 1,333,803; Mar. 16; v. 272; p. 420.
Copying-pad. L. V. Landau. No. 1,348,812; Aug. 3; v. 277; p. 131.
Cord and twine, Device for conserving. O. A. Gale. No. 1,350,602; Aug. 24; v. 277; p. 653.
Cord-burnishing device. C. C. Chamberlain. No. 1,328,943; Jan. 27; v. 270; p. 515.
Cord-cutter. A. A. Nelson. No. 1,338,248; Apr. 27; v. 278; p. 686.
Cord-cutter. V. E. Peterson. No. 1,349,627; Aug. 17; v. 277; p. 417.
Cord, Flexible. W. L. Runzel. No. 1,340,839; May 18; v. 274; p. 544.
Cord holder, Conducting-. H. A. Goldthwaite. No. 1,329,173; Jan. 27; v. 270; p. 558.
Cords, Adjustable bight-holding attachment for. G. W. Shepherd. No. 1,356,316; Oct. 19; v. 279; p. 461.
Cording-machine. J. Finkelstein. No. 1,334,086; Mar. 16; v. 272; p. 474.
Core-bar, Collapsible. R. G. Coates. No. 1,348,982; Aug. 10; v. 277; p. 217.
Core-box. E. W. Clark. No. 1,347,081; July 20; v. 276; p. 467.
Core-box, Adjustable. E. W. Clark. No. 1,347,080; July 20; v. 276; p. 467.
Core, Collapsible. G. E. Eckler. No. 1,361,840; Dec. 14; v. 281; p. 219.
Core, Collapsible. A. H. Harris. No. 1,343,504; June 15; v. 275; p. 487.
Core-drill. C. C. Hansen. No. 1,358,441; Nov. 9; v. 280; p. 303.
Core-drying means. J. C. Davis. No. 1,335,222; Mar. 30; v. 272; p. 794.
Core, Expansible. C. Holm. No. 1,337,910; Apr. 20; v. 273; p. 553.
Core lamination-sections, Production of. M. O. Troy. No. 1,339,990; May 11; v. 274; p. 327.
Core-making apparatus. W. E. Wood. No. 1,355,204; Oct. 12; v. 279; p. 202.
Core-plate for drying cores. H. C. Drumm. No. 1,337,005; Apr. 13; v. 273; p. 307.
Core, Pneumatic vulcanizing-. A. O. Alsten. No. 1,327,264; Jan. 6; v. 270; p. 72.
Core, Separable. J. W. Brundage. No. 1,356,596; Oct. 26; v. 279; p. 561.
Core, Separable. G. H. Willis. No. 1,348,612; Aug. 3; v. 277; p. 94.
Cores, Apparatus for use in making. R. C. Pattison. No. 1,350,564; Aug. 24; v. 277; p. 646.
Cores, Machine for making. L. Miller. No. 1,329,425; Feb. 3; v. 271; p. 15.
Coring-machine. C. F. Colbert. No. 1,327,083; Jan. 6; v. 270; p. 39.
Cork boards, Mold for making. A. MacKinnon. No. 1,361,081; Dec. 7; v. 281; p. 20.
Cork-extractor. C. T. Madsen. No. 1,340,551; May 18; v. 274; p. 490.
Cork-extractor. J. Palahniuk. No. 1,350,383; Aug. 24; v. 277; p. 609.
Cork-making machines, Feeding attachment for crown-. E. Albertl. No. 1,353,136; Sept. 21; v. 278; p. 373.
Cork-puller. J. W. Keith. No. 1,332,043; Feb. 24; v. 271; p. 627.
Corking-machine, Automatic. H. G. Monkhorst. No. 1,339,904; May 11; v. 274; p. 310.
Corn and callus cutter and trimmer. P. R. Barufke. No. 1,359,315; Nov. 16; v. 280; p. 517.
Corn and callous remover. J. S. Zelaya. No. 1,335,777; Apr. 6; v. 273; p. 14.
Corn and callus treating device. H. E. Schindler. No. 1,347,557; July 27; v. 276; p. 617.
Corn, Apparatus for airing stored. G. Trolle-Bonde. No. 1,349,538; Aug. 10; v. 277; p. 327.
Corn, Apparatus for drying and hardening. R. H. McDowell. No. 1,341,275; May 25; v. 274; p. 699.
Corn-cleaner. J. W. Harris. No. 1,328,872; Jan. 27; v. 270; p. 501.
Corn-cultivator attachment. W. H. Shannon. No. 1,338,594; Apr. 27; v. 278; p. 750.
Corn-cutter. P. H. Pampel. No. 1,332,916; Mar. 9; v. 272; p. 193.
Corn-cutter. J. E. Smith. No. 1,361,633; Dec. 7; v. 281; p. 132.
Corn from the cob, Machine for cutting green. S. E. and W. W. Morral. No. 1,327,402; Jan. 6; v. 270; p. 97.
Corn gathering or harvesting machine. W. Smolley. No. 1,347,559; July 27; v. 276; p. 618.
Corn-hanger. C. E. Gillett. No. 1,351,379; Aug. 31; v. 277; p. 867.
Corn-header. L. L. and S. J. Ellis. No. 1,363,099; Dec. 21; v. 281; p. 517.
Corn-header. W. F. Hamilton. No. 1,334,933; Mar 23; v. 272; p. 681.
Corn-header. W. F. Hamilton. No. 1,343,884; June 15; v. 275; p. 563.
Corn-header. W. P. Harmon. No. 1,358,202; Nov. 9; v. 280; p. 253.
Corn-header. J. R. Mingle. No. 1,349,847; Aug. 17; v. 277; p. 459.
Corn-husker. E. Becker. No. 1,355,645; Oct. 12; v. 279; p. 288.
Corn-husker. J. W. Burkett. No. 1,329,752; Feb. 3; v. 271; p. 76.
Corn-husker pin. L. F. Schrage. No. 1,340,419; May 18; v. 274; p. 466.
Corn-huskers, Butt-remover for. O. S. Sells. No. 1,333,639; Mar. 16; v. 272; p. 390.
Corn-husking cylinder. O. Adams. No. 1,346,931; July 20; v. 276; p. 437.
Corn-husking machine, Safety device for. L. A. Butterfield. No. 1,358,826; Nov. 16; v. 280; p. 424.
Corn-husking machine, Snapping-rolls for. L. A. Butterfield. No. 1,339,737; May 11; v. 274; p. 279.
Corn-husking rolls. G. Hohenstein. No. 1,361,463; Dec. 7; v. 281; p. 98.
Corn-knife. G. W. Anderson. No. 1,331,407; Feb. 17; v. 271; p. 485.

Digitized by Google

Alphabetical list of inventions—Continued.

Corn-knife. J. J. Fleming. No. 1,355,828; Oct. 19; v. 279; p. 364.
Corn, Means for handling ear-. W. G. Eckhardt. No. 1,334,235; Mar. 16; v. 272; p. 501.
Corn-pad. C. C. Wilson. No. 1,358,272; Nov. 9; v. 280; p. 267.
Corn-picker. F. I. Friedline. No. 1,338,723; May 4; v. 274; p. 14.
Corn-planter and fertilizer-distributer. M. Jennings. No. 1,342,333; June 1; v. 275; p. 140.
Corn-planters, Valve mechanism for. E. W. Paulson. No. 1,357,298; Nov. 2; v. 280; p. 19.
Corn-popping machine. E. C. Booth. No. 1,332,023; Feb. 24; v. 271; p. 622.
Corn-popping machines, Attachment for. T. W. Williams. No. 1,360,606; Nov. 30; v. 280; p. 886.
Corn-remover. J. Grabowski. No. 1,361,982; Dec. 14; v. 281; p. 248.
Corn-replanter. P. T. Sellers. No. 1,349,920; Aug. 17; v. 277; p. 478.
Corn stringer, Seed-. G. W. Holtsclaw and H. Larson. No. 1,360,239; Nov. 23; v. 280; p. 745.
Corn stringer, Seed-. M. L. Shaffer. No. 1,332,766; Mar. 2; v. 272; p. 113.
Corn-shellers, Feed-wheel for. T. S. Courtney. No. 1,362,679; Dec. 21; v. 281; p. 435.
Corn-shelling device. W. T. Clark. No. 1,361,444; Dec. 7; v. 281; p. 94.
Corn-thinner. M. I. Goldsmith. No. 1,343,558; June 15; v. 275; p. 498.
Corn, Treating broom-. H. J. Broderson and S. W. Parr. No. 1,337,306; Apr. 20; v. 278; p. 439.
Corncrib. W. W. Ruff. No. 1,363,273; Dec. 28; v. 281; p. 591.
Cornstalk-cutter. F. G. Heinecke. No. 1,327,997; Jan. 13; v. 270; p. 270.
Corner-clips, Method of and machine for applying. F. D. Warner and W. E. Hays. No. 1,355,872; Oct. 19; v. 279; p. 373.
Corner-cutter. W. F. Morse. No. 1,351,116; Aug. 31; v. 277; p. 814.
Corner rack and shelf. N. B. Winter. No. 1,345,977; July 6; v. 276; p. 129.
Corner-strip, Crack and sag proof. G. N. Halgren. No. 1,329,899; Feb. 3; v. 271; p. 104.
Cornet. J. W. Calderwood. No. 1,343,883; June 15; v. 275; p. 563.
Cornet-mute. P. Santa Emma. No. 1,342,846; June 8; v. 275; p. 295.
Cornet, trumpet, &c. G. A. Enders. No. 1,328,038; Jan. 13; v. 270; p. 278.
Cornets, Mute for. F. A. Becker. No. 1,341,351; May 25; v. 274; p. 714.
Cornucopia-baking machine, Rotary automatic. M. J. Wolff. No. 1,344,285; June 22; v. 275; p. 705.
Cornucopia-dispenser. F. Marek. No. 1,339,067; May 4; v. 274; p. 78.
Cornucopia-serving device. S. A. Kornsweet. No. 1,349,135; Aug. 10; v. 277; p. 247.
Correspondence, System for handling. T. C. Brown. No. 1,359,959; Nov. 23; v. 280; p. 691.
Corrosion, Compound for penetrating interior. C. M. Abbott. No. 1,333,363; Mar. 9; v. 272; p. 277.
Corset. S. J. Newman. No. 1,356,392; Oct. 19; v. 279; p. 475.
Corset. S. J. Newman. No. 1,357,077; Oct. 26; v. 279; p. 656.
Corset. C. H. Schopbach. No. 1,347,180; July 20; v. 276; p. 486.
Corset. T. F. Somers. No. 1,355,009; Oct. 5; v. 279; p. 111.
Corset and brassière, Combined. C. A. Trenholm. No. 1,358,660; Nov. 9; v. 280; p. 346.
Corset and corset-waist, Combined. I. Roussin. No. 1,331,027; Feb. 17; v. 271; p. 416.
Corset and fastener therefor. E. A. Dunning. No. 1,357,694; Nov. 2; v. 280; p. 93.
Corset, Apparel-. D. Kops. No. 1,328,086; Jan. 13; v. 270; p. 287.
Corset, Apparel-. D. Kops. No. 1,328,675; Jan. 20; v. 270; p. 435.
Corset-fastening. J. H. Auerbach. No. 1,327,078; Jan. 6; v. 270; p. 38.
Corset-fastening. J. H. Auerbach. No. 1,351,728; Sept. 7; v. 278; p. 3.
Corset, Maternity-. C. E. Anderson. No. 1,352,422; Sept. 14; v. 278; p. 171.
Corset, Maternity-. C. Munter. No. 1,345,620; July 6; v. 276; p. 57.
Corset, Maternity-. M. D. Potter. No. 1,356,402; Oct. 19; v. 279; p. 477.
Corset-steel. A. J. Lecoutre. (Reissue.) No. 14,892; June 22; v. 275; p. 771.
Corset-steel. W. L. Raymer. No. 1,363,532; Dec. 28; v. 281; p. 641.
Corsets, Lacing-flap for. R. J. Wright. No. 1,355,207; Oct. 12; v. 279; p. 203.
Cosmetic. M. V. Hull. No. 1,332,190; Feb. 24; v. 271; p. 653.
Cost-keeping machine. J. W. Bryce. No. 1,340,435; May 18; v. 274; p. 469.
Cot adaptable as play pens, &c., Child's combination. A. Burchell. No. 1,354,088; Sept. 28; v. 278; p. 607.
Cot and stretcher, Folding. F. W. Pfeifer. No. 1,350,516; Aug. 24; v. 277; p. 636.
Cot, Collapsible. M. B. Okun. No. 1,332,950; Mar. 9; v. 272; p. 200.
Cot, Folding. J. H. Dyett. No. 1,360,201; Nov. 23; v. 280; p. 788.
Cot, Folding. O. J. Green. No. 1,350,152; Aug. 17; v. 277; p. 518.
Cot, Folding. J. T. Hall. No. 1,334,091; Mar. 16; v. 272; p. 475.
Cotter-extractor. W. E. Aylor. No. 1,336,938; Apr. 13; v. 273; p. 294.
Cotter-key. W. E. Aylor and M. Rauh. No. 1,336,498; Apr. 13; v. 273; p. 209.
Cotter-pin extractor. A. Nyhus. No. 1,347,287; July 20; v. 276; p. 507.
Cotter-pin extractor. G. V. Shepard. No. 1,354,174; Oct. 12; v. 279; p. 197.
Cotter-pin puller. A. L. Sandin. No. 1,338,043; Apr. 27; v. 273; p. 648.
Cotter-pin remover. B. Tweto. No. 1,357,012; Oct. 26; v. 279; p. 643.
Cotton and cotton manufacture, Treating. S. Kashitani. No. 1,360,224; Nov. 23; v. 280; p. 742.
Cotton, Apparatus for handling. H. W. Ligon. No. 1,340,964; May 25; v. 274; p. 639.
Cotton-bale box, Miniature-. A. Hirschwitz. No. 1,357,866; Nov. 2; v. 280; p. 127.
Cotton belt. F. Kawai. No. 1,329,713; Feb. 3; v. 271; p. 68.
Cotton-boll-cleaning machine. A. T. Lokey. No. 1,351,858; Sept. 7; v. 278; p. 29.
Cotton-boll extractor and cotton-cleaning machine. H. E. Walker. No. 1,354,358; Sept. 28; v. 278; p. 661.
Cotton-chopper. R. H. Cogburn. No. 1,349,266; Aug. 10; v. 277; p. 278.
Cotton-chopper. W. L. Dawson. No. 1,354,958; Oct. 5; v. 279; p. 102.
Cotton-chopper. E. Engler. No. 1,356,758; Oct. 26; v. 279; p. 593.
Cotton-chopper. G. M. Hart and J. E. Wall. No. 1,343,777; June 15; v. 275; p. 541.
Cotton-chopper. J. W. Jones. No. 1,359,709; Nov. 23; v. 280; p. 641.
Cotton-chopper. J. J. and O. J. Kriel. No. 1,340,057; May 11; v. 274; p. 339.
Cotton-chopper. J. D. Ogden. No. 1,328,638; Jan. 20; v. 270; p. 428.
Cotton-chopper. W. D. Rainey. No. 1,354,131; Sept. 28; v. 278; p. 615.
Cotton-chopping machine. J. G. Sims. No. 1,336,708; Apr. 13; v. 273; p. 250.
Cotton-chopping machine. J. O. Thornhill. No. 1,348,764; Aug. 3; v. 277; p. 122.
Cotton-cleaner. G. C. Stacy. No. 1,357,124; Oct. 26; v. 279; p. 665.
Cotton-cleaning cultivator attachment. T. Hasting. No. 1,332,838; Mar. 2; v. 272; p. 126.
Cotton-cleaning machines, Multiple hull-board for. D. Parks. No. 1,357,586; Nov. 2; v. 280; p. 72.
Cotton-crop-separating machine. W. Morava. No. 1,356,545; Oct. 26; v. 279; p. 552.
Cotton cullers, Seed-. J. T. Lawrence. No. 1,340,063; May 11; v. 274; p. 340.
Cotton extracting and cleaning machine. D. Parks. No. 1,360,015; Nov. 23; v. 280; p. 702.
Cotton-gin. S. K. Lichtenstein. No. 1,350,661; Aug. 24; v. 277; p. 664.
Cotton-gin. O. C. McBride. No. 1,345,206; June 29; v. 275; p. 949.
Cotton-gin. R. S. Wheeler. No. 1,340,691; May 18; v. 274; p. 517.
Cotton-gins, Mote-board for. J. L. Wooldridge. (Reissue.) No. 14,874; June 1; v. 275; p. 157.
Cotton-machine. J. C. Conrad. No. 1,331,000; Feb. 17; v. 271; p. 411.
Cotton-machine. J. C. Conrad. No. 1,331,001; Feb. 17; v. 271; p. 411.
Cotton, Machine for picking. W. Threadgill. No. 1,340,577; May 18; v. 274; p. 495.
Cotton, Method and apparatus for ginning. C. B. Cotton. No. 1,341,168; May 25; v. 274; p. 679.
Cotton-mixing apparatus. S. Kido. No. 1,346,828; July 20; v. 276; p. 417.
Cotton-pest poisoner. J. M. Saladiner. No. 1,354,215; Sept. 28; v. 278; p. 632.
Cotton or other fiber-bearing seeds, Defibration of hulls of. E. C. de Segundo. No. 1,329,828; Feb. 3; v. 271; p. 90.
Cotton-picker. J. H. C. Boig. No. 1,341,039; May 25; v. 274; p. 654.
Cotton-picker. W. F. Cooper. No. 1,351,373; Aug. 31; v. 277; p. 866.
Cotton-picker. W. T. Harris and L. F. Hamme. No. 1,334,369; Mar. 23; v. 272; p. 573.
Cotton-picker. C. S. Matthiessen. No. 1,328,385; Jan. 20; v. 270; p. 380.
Cotton-picker. L. C. Stukenborg. No. 1,332,580; Mar. 2; v. 272; p. 78.

Digitized by Google

Cotton-picker. C. N. Wisner. No. 1,329,067; Jan. 27; v. 270; p. 538.
Cotton-picker attachment. J. F. Schenck, Jr. No. 1,328,904; Jan. 27; v. 270; p. 507.
Cotton-picker head. C. N. Wisner. No. 1,336,176; Apr. 6; v. 273; p. 89.
Cotton-picker mechanism. T. R. Gabel and H. H. Holdaway. No. 1,348,829; Aug. 3; v. 277; p. 134.
Cotton-pickers, Nozzle for pneumatic. C. S. Matthiessen. No. 1,328,386; Jan. 20; v. 270; p. 380.
Cotton-picker's sack. A. E. Meyer. No. 1,347,704; July 27; v. 276; p. 647.
Cotton-picker's sack. F. W. Timmerman. No. 1,361,203; Dec. 7; v. 281; p. 44.
Cotton-picker's sack. C. B. Tipton. No. 1,337,859; Apr. 20; v. 273; p. 543.
Cotton-picking machine. J. B. Tibbs. No. 1,346,282; July 13; v. 276; p. 251.
Cotton-picking machines, Hose-nozzle for pneumatic. H. W. Jordan. No. 1,334,760; Mar. 23; v. 272; p. 646.
Cotton-picking machines, Vacuum-nozzle for. J. T. Skillins. No. 1,355,786; Oct. 12; v. 279; p. 315.
Cotton-picking sack. O. J. Friend. No. 1,355,740; Oct. 12; v. 279; p. 306.
Cotton-picking sack. H. P. Taylor. No. 1,335,620; Mar. 30; v. 272; p. 868.
Cotton-press, Round-bale. J. A. Taft. No. 1,333,351; Mar. 9; v. 272; p. 275.
Cotton-scraper. J. H. Hogdin, A. Z. Coats, and L. M. Miller. No. 1,358,208; Nov. 9; v. 280; p. 255.
Cotton-seed cutter. W. R. Pinckney. No. 1,355,777; Oct. 12; v. 279; p. 313.
Cotton-seed linter. R. E. Montgomery. No. 1,327,724; Jan. 13; v. 270; p. 219.
Cotton-seed-linting machine. F. E. Voorhies. No. 1,353,295; Sept. 21; v. 278; p. 403.
Cotton-seed meats, Treatment of. C. O. Phillips. No. 1,347,870; July 27; v. 276; p. 680.
Cotton-seed, Method of and apparatus for treating. A. L. Adelsperger. No. 1,349,034; Aug. 10; v. 277; p. 227.
Cotton-seed-oil presses, Press-plate for. N. B. Henry. No. 1,348,004; July 27; v. 276; p. 706.
Cotton-seed unloaders, Discharge device for. C. H. Golloher. No. 1,340,164; May 18; v. 274; p. 418.
Cotton-seed-weighing apparatus. F. C. Mattern. No. 1,328,747; Jan. 20; v. 270; p. 448.
Cotton-separator. M. L. Williams and E. G. Kemper. No. 1,349,142; Aug. 10; v. 277; p. 248.
Cotton-ties, Means and method of coupling. W. G. Turner. No. 1,332,645; Mar. 2; v. 272; p. 90.
Cotton-tramper. E. A. H. Jacob; No. 1,352,129; Sept. 7; v. 278; p. 80.
Cotton-tramper. E. Munger. No. 1,340,971; May 25; v. 274; p. 641.
Cotton-treating machine. J. L. Cassel. No. 1,332,425; Mar. 2; v. 272; p. 48.
Couch. E. P. Smith. No. 1,339,608; May 11; v. 274; p. 255.
Couch, Cabinet-. H. M. Camp. No. 1,327,941; Jan. 13; v. 270; p. 259.
Couch, lounge, or cot. R. J. Ellsworth. No. 1,363,764; Dec. 28; v. 281; p. 686.
Counter. E. H. Bekkering. No. 1,361,562; Dec. 7; v. 281; p. 118.
Counter. S. A. Comiskey. No. 1,342,665; June 8; v. 275; p. 257.
Counter. T. Freeland. No. 1,359,884; Nov. 23; v. 280; p. 675.
Counter. C. P. Wetmore. No. 1,336,113; Apr. 6; v. 273; p. 78.
Counter and indicator. H. H. Cummings. No. 1,363,846; Dec. 28; v. 281; p. 702.
Counter apparatus. W. E. Horsch. No. 1,343,723; June 15; v. 275; p. 531.
Counter attachment. W. E. Hosch. No. 1,356,625; Oct. 26; v. 279; p. 567.
Counter-board and making same. A. L. Clapp. No. 1,332,541; Mar. 2; v. 272; p. 71.
Counter-board and producing same. A. L. Clapp. No. 1,345,317; June 29; v. 275; p. 971.
Counter, Dispensing-. W. L. Humphreys. No. 1,339,652; May 11; v. 274; p. 263.
Counter-flanging machine. J. H. Scharffenberg. No. 1,327,780; Jan. 13; v. 270; p. 230.
Counter-molding machine. A. F. Jacquemin. No. 1,332,259; Mar. 2; v. 272; p. 16.
Counter-molding machines, Doffer mechanism for. A. F. Jacquemin. No. 1,346,030; July 6; v. 276; p. 139.
Counter-shaft, Reversible. N. Arbeitel. No. 1,331,891; Feb. 24; v. 271; p. 598.
Counter, Store-. F. H. Cole. No. 1,348,087; July 27; v. 276; p. 723.
Counter, Store-. S. H. Knight. No. 1,357,062; Oct. 26; v. 279; p. 653.
Counter, Washer-. J. E. Vincent. No. 1,350,755; Aug. 24; v. 277; p. 683.
Counterbalance construction for hinged covers. D. W. Sellek. No. 1,345,261; June 29; v. 275; p. 959.
Countersink, Adjustable. C. O. Bosse. No. 1,346,105; July 13; v. 276; p. 216.
Countersink and bit-gage, Combination. H. L. Storey. No. 1,334,416; Mar. 23; v. 272; p. 582.
Counting apparatus. A. F. Dixon. No. 1,356,607; Oct. 26; v. 279; p. 564.
Counting-machine. H. P. C. Browne. No. 1,333,061; Mar. 9; v. 272; p. 220.
Counting mechanism. J. Rousso. No. 1,329,433; Feb. 3; v. 271; p. 17.
Coupling: *See*—
Adjustable shaft-coupling.
Air and car coupling.
Automatic coupling.
Automatic release-coupling.
Cable-coupling.
Car-coupling.
Chain-coupling.
Clothesline-coupling.
Compression-coupling.
Draft-coupling.
Draw-bar coupling.
Electric-fixture coupling.
Electric-light-fixture coupling.
Electric train-wire coupling.
Electrical coupling.
Emergency draft-coupling.
Fluid-pressure coupling.
Gear-coupling.
Grain-drill coupling.
Handle and implement coupling.
Hose-coupling.
Hose and pipe coupling.
Impulse-starter coupling.
Inflating-coupling.
Joint-coupling.
Magneto-coupling.
Multiple coupling.
Pipe-coupling.
Pipe and conduit coupling.
Pipe and hose coupling.
Pump-coupling.
Railway-rail coupling.
Rod-coupling.
Shaft-coupling.
Shaft and flywheel coupling.
Silencer-coupling.
Starter-coupling.
Tractor-coupling.
Trailer-coupling.
Tubing-coupling.
Universal coupling.
Valve-controlled coupling.
Vehicle-coupling.
Vehicle-shaft coupling.
Wagon-reach coupling.
Coupling. C. A. Bailey. No. 1,345,735; July 6; v. 276; p. 80.
Coupling. G. Blouen. No. 1,362,523; Dec. 14; v. 281; p. 353.
Coupling. R. R. Bow and H. C. Davis. No. 1,326,970; Jan. 6; v. 270; p. 17.
Coupling. E. C. Carlson. No. 1,355,450; Oct. 12; v. 279; p. 250.
Coupling. E. L. Gerrish. No. 1,348,277; Aug. 3; v. 277; p. 29.
Coupling. S. C. Hartsock. No. 1,357,049; Oct. 26; v. 279; p. 650.
Coupling. J. L. Hiegel. No. 1,359,989; Nov. 23; v. 280; p. 696.
Coupling. C. C. Hogen. No. 1,360,526; Nov. 30; v. 280; p. 870.
Coupling. W. H. Kennedy. No. 1,341,135; May 25; v. 274; p. 672.
Coupling. M. H. Poirier. No. 1,340,739; May 18; v. 274; p. 525.
Coupling. F. A. Ruff. No. 1,334,557; Mar. 23; v. 272; p. 609.
Coupling. E. M. Stout. No. 1,336,823; Apr. 6; v. 273; p. 116.
Coupling. T. White. No. 1,336,326; Apr. 6; v. 273; p. 117.
Coupling. C. Wilson. No. 1,353,299; Sept. 21; v. 278; p. 404.
Coupling. C. D. Young. No. 1,361,788; Dec. 7; v. 281; p. 161.
Coupling. J. M. Zadora. No. 1,362,521; Dec. 14; v. 281; p. 353.
Coupling and draft-yoke connection. E. George, Jr. No. 1,364,047; Dec. 28; v. 281; p. 740.
Coupling and shock-absorber. C. L. B. de Saunier. No. 1,356,270; Oct. 19; v. 279; p. 451.
Coupling attachment. A. J. Anderson. No. 1,336,181; Apr. 6; v. 273; p. 90.
Coupling-carrier. W. Kelso. No. 1,362,706; Dec. 21; v. 281; p. 441.
Coupling-centering mechanism. H. C. Buhoup. No. 1,345,529; July 6; v. 276; p. 40.
Coupling-clamp. J. H. Coffman. No. 1,330,737; Feb. 10; v. 271; p. 291.
Coupling device. W. O. Berry. No. 1,353,718; Sept. 21; v. 278; p. 488.
Coupling device. J. W. Landymore and J. M. Harrison. No. 1,359,391; Nov. 16; v. 280; p. 532.
Coupling device. S. Silnes. No. 1,349,300; Aug. 10; v. 277; p. 280.
Coupling device. A. W. L. Schermuly. No. 1,362,512; Dec. 14; v. 281; p. 351.
Coupling device. M. Tibbetts. No. 1,332,962; Mar. 9; v. 272; p. 202.
Coupling device, Flexible. R. A. Smith and J. J. Serrell. No. 1,343,413; June 15; v. 275; p. 469.
Coupling for coupling pumps to electric motors. A. Dispot. No. 1,349,329; Aug. 10; v. 277; p. 286.
Coupling, Device for varying electrical. L. M. Clement. No. 1,353,145; Sept. 21; v. 278; p. 375.
Coupling-head and making same. J. J. Glass. No. 1,354,904; Oct. 5; v. 279; p. 91.
Coupling-hook. T. W. Faulds. No. 1,331,425; Feb. 17; v. 271; p. 489.
Coupling-link. D. Madill. No. 1,351,298; Aug. 31; v. 277; p. 850.
Coupling-link, Security. G. W. Corwin. No. 1,354,805; Oct. 5; v. 279; p. 72.
Coupling mechanism. E. P. Kinne. No. 1,356,209; Oct. 19; v. 279; p. 440.

Digitized by Google

Coupling mechanism. E. P. Kinne. No. 1,356,210; Oct. 19; v. 279; p. 440.
Coupling or clutch. J. W. Barber. No. 1,342,936; June 8; v. 275; p. 313.
Coupling or joint. H. P. Macdonald. No. 1,360,555; Nov. 30; v. 280; p. 875.
Coupling or snap. H. G. Wernimont. No. 1,337,577; Apr. 20; v. 278; p. 489.
Coupling, Universal. L. Iversen. No. 1,359,601; Nov. 23; v. 280; p. 620.
Coupon, Cooperative cash-discount. W. A. Prole. No. 1,331,577; Feb. 24; v. 271; p. 538.
Coupon, Self-canceling. E. I. Rice. No. 1,330,217; Feb. 10; v. 271; p. 195.
Course-finder. C. N. Westwood. No. 1,350,581; Aug. 24; v. 277; p. 650.
Course-indicator. L. C. Weaver. No. 1,348,191; Aug. 3; v. 277; p. 11.
Cover. H. T. Randolph. No. 1,330,345; Feb. 10; v. 271; p. 218.
Cover and fastening means therefor. S. Tave. No. 1,335,206; Mar. 30; v. 272; p. 791.
Cover-fastener. G. H. Bliss. No. 1,344,576; June 22; v. 275; p. 783.
Cover for sanitary and other vessels, Hygienic. M. E. Budge. No. 1,362,671; Dec. 21; v. 281; p. 434.
Cover opening and closing mechanism. L. Chriskos. No. 1,331,143; Feb. 17; v. 271; p. 437.
Cover-remover. A. S. Morange. No. 1,341,513; May 25; v. 274; p. 745.
Cover-retainer. C. E. Schafer. No. 1,348,963; Aug. 10; v. 277; p. 213.
Cover-support. B. B. Blood. No. 1,327,978; Jan. 13; v. 270; p. 266.
Cover-support. B. B. Blood. No. 1,331,556; Feb. 24; v. 271; p. 534.
Covers, Device for removing slip-. W. T. Schneeweiss. No. 1,340,413; May 18; v. 274; p. 464.
Covering. T. J. Cahill. No. 1,357,541; Nov. 2; v. 280; p. 64.
Coverings, Apparatus for making and laying protective. A. C. Chenoweth. No. 1,359,575; Nov. 23; v. 280; p. 614.
Cows, Antikicker for. D. H. McCuaig. No. 1,337,406; Apr. 20; v. 278; p. 457.
Cracker-can. J. M. Hothersall. No. 1,357,321; Nov. 2; v. 280; p. 28.
Cracker-can. F. P. Wood. No. 1,337,630; Apr. 20; v. 273; p. 499.
Cradle. F. Hopaidaszka. No. 1,354,907; Oct. 5; v. 279; p. 92.
Cradle. C. Krey. No. 1,336,302; Apr. 6; v. 273; p. 113.
Cradle and bed, Combined. M. F. Flie. No. 1,347,451; July 20; v. 276; p. 540.
Cradle, Oscillating. J. Lopatka. No. 1,334,042; Mar. 16; v. 272; p. 466.
Craft-propulsion mechanism. F. F. Simons. No. 1,355,110; Oct. 5; v. 279; p. 131.
Cradle, Transferable. E. A. Turner. No. 1,343,009; June 22; v. 275; p. 652.
Craft, Sailing-. M. and T. A. McIntyre. No. 1,356,800; Oct. 19; v. 279; p. 458.
Craft with automatic stabiliser. A. T. Vance. No. 1,350,579; Aug. 24; v. 277; p. 649.
Cranberries, Device for harvesting. W. F. Loring. No. 1,348,132; July 27; v. 276; p. 782.
Cranberry-picker. W. B. Clapp. No. 1,354,283; Sept. 28; v. 278; p. 646.
Cranberry-picking apparatus. A. Turner and H. A. Ripley. No. 1,360,473; Nov. 30; v. 280; p. 859.
Cranberry-separator. W. E. Trufant. No. 1,339,077; May 4; v. 274; p. 80.
Crane. A. G. Behrens. No. 1,333,699; Mar. 16; v. 272; p. 401.
Crane. C. A. Bingham. No. 1,352,575; Sept. 14; v. 278; p. 202.
Crane. T. N. Garson. No. 1,337,400; Apr. 20; v. 273; p. 456.
Crane. A. F. Hainsworth. No. 1,328,793; Jan. 20; v. 270; p. 456.
Crane. W. S. Vaughan. No. 1,346,068; July 6; v. 276; p. 146.
Crane. A. Welin. No. 1,342,480; June 8; v. 275; p. 222.
Crane, Counterbalanced. S. T. Sjoberg. No. 1,344,659; June 29; v. 275; p. 845.
Crane, Floor-. W. R. Beatty. No. 1,333,200; Mar. 9; v. 272; p. 246.
Crane, Freight loading and unloading. J. Plucienski. No. 1,341,996; June 1; v. 275; p. 75.
Crane, Mold-assembling. C. K. Prince. No. 1,343,335; June 15; v. 275; p. 454.
Crane or similar lifting device. O. Taussig. No. 1,327,181; Jan. 6; v. 270; p. 57.
Crane or stacker, Hoisting-. R. K. Adams. No. 1,353,697; Sept. 21; v. 278; p. 485.
Crane, Portable jib-. W. H. Purnell and J. A. Butterworth. No. 1,345,881; July 6; v. 276; p. 108.
Crane, Railway-mail. A. Hupp. No. 1,354,559; Oct. 5; v. 279; p. 22.
Cranes, Driving mechanism for overhead traveling bridge-. R. W. Valls. No. 1,328,934; Jan. 27; v. 270; p. 513.
Cranes, Hoisting mechanism for overhead traveling. C. L. Taylor. No. 1,357,429; Nov. 2; v. 280; p. 43.
Cranes, Luffing mechanism for jib-. J. N. Goudie. No. 1,338,726; May 4; v. 274; p. 14.
Cranes, Means for the automatic equilibrium floating. V. Locarni. No. 1,343,630; June 15; v. 275; p. 510.
Cranes, Running-gear for traveling. B. F. Fitch. No. 1,347,625; July 27; v. 276; p. 631.
Cranes, Track-support for overhead. H. M. Lane. No. 1,332,627; Mar. 2; v. 272; p. 87.
Crank, Z. E. Gilley. No. 1,351,639; Aug. 31; v. 277; p. 918.
Crank. A. W. Pattinson. No. 1,360,974; Nov. 30; v. 280; p. 957.
Crank-case reinforcement. R. G. Lundgreen. No. 1,345,204; June 29; v. 275; p. 948.
Crank-case reinforcement or repair arm. A. G. Jackson. No. 1,332,840; Mar. 2; v. 272; p. 127.
Crank-handle. G. F. Graham and W. J. Bunyan. No. 1,330,260; Feb. 10; v. 271; p. 202.
Crank-handle-retaining device. O. Harp. No. 1,344,343; June 22; v. 275; p. 717.
Crank-locking device. A. L. Parker. No. 1,358,681; Nov. 9; v. 280; p. 350.
Crank-pedal. J. Glanz. No. 1,352,446; Sept. 14; v. 278; p. 176.
Crank pin and shaft truing tool. J. H. Sutter and C. N. Atherton. No. 1,344,831; June 29; v. 275; p. 878.
Crank-pin-lubricating means. H. A. S. Howarth. No. 1,363,789; Dec. 28; v. 281; p. 691.
Crank-pins and eccentrics and truing-shafts, Means for turning. T. Smith. No. 1,346,271; July 13; v. 276; p. 248.
Crank-pins on engine-shafts, Apparatus for turning. A. Thomas. No. 1,345,415; July 6; v. 276; p. 18.
Crank-rod connection. H. E. Petrilli. No. 1,330,607; Feb. 10; v. 271; p. 267.
Crank, Safety-. H. H. Davis. No. 1,345,142; June 29; v. 275; p. 936.
Crank, Safety. C. Schmidt. No. 1,344,521; June 22; v. 275; p. 752.
Crank-shaft. G. F. Cote. No. 1,363,957; Dec. 28; v. 281; p. 728.
Crank-shaft. C. A. Kuhn. No. 1,337,081; Apr. 13; v. 273; p. 322.
Crank-shaft. M. J. Schenk. No. 1,347,178; July 20; v. 276; p. 485.
Crank-shaft. R. A. Weinhardt. No. 1,328,350; Jan. 20; v. 270; p. 373.
Crank-shaft and connecting-rod assembly. R. A. Weinhardt. No. 1,355,438; Oct. 12; v. 279; p. 248.
Crank-shaft assembly. R. A. Weinhardt. No. 1,355,439; Oct. 12; v. 279; p. 248.
Crank-shaft construction. W. J. Glor. No. 1,363,466; Dec. 28; v. 281; p. 628.
Crank-shaft, Counterbalanced. C. C. Dodge. No. 1,351,417; Aug. 31; v. 277; p. 874.
Crank-shaft pins, Portable lathe for recutting. W. H. Craun and P. Mathis. No. 1,345,138; June 29; v. 275; p. 936.
Crank-shafts, Detachable counterbalance for motor. R. S. Trott. No. 1,350,269; Aug. 17; v. 277; p. 541.
Crank-shafts, Detachable counterbalance weight for motor. R. S. Trott. No. 1,350,270; Aug. 17; v. 277; p. 541.
Crank-shafts, Lubrication of. F. M. Green and S. D. Heron. No. 1,331,638; Feb. 24; v. 271; p. 550.
Crank, Starting-. A. M. Morton and L. A. Cozart. No. 1,356,876; Oct. 26; v. 279; p. 617.
Cranking device. N. W. Hart. No. 1,330,530; Feb. 10; v. 271; p. 253.
Cranking device, Safety. A. I. Sandbo. No. 1,333,186; Mar. 9; v. 272; p. 243.
Crap-dice frame. W. N. Cobb. No. 1,363,567; Dec. 28; v. 281; p. 648.
Crate. C. L. Austin. No. 1,335,635; Mar. 30; v. 272; p. 871.
Crate. W. D. Woodruff. No. 1,347,923; July 27; v. 276; p. 690.
Crate, Bottle-. A. L. Foreman. No. 1,340,881; May 25; v. 274; p. 623.
Crate, Bottle-. J. F. Maurer. No. 1,328,748; Jan. 20; v. 270; p. 448.
Crate, Bottle-. L. H. Payne. No. 1,331,364; Feb. 17; v. 271; p. 477.
Crate, Collapsible. J. J. Dahlstrom. No. 1,353,030; Sept. 14; v. 278; p. 292.
Crate, Collapsible. N. P. Kosteck. No. 1,358,562; Nov. 9; v. 280; p. 326.
Crate, Collapsible. E. W. Langrell and J. J. Nuss. No. 1,344,543; June 22; v. 275; p. 757.
Crate, Collapsible poultry-. D. F. Black. No. 1,340,815; May 18; v. 274; p. 539.
Crate, Folding. M. F. Bench. No. 1,338,608; Apr. 27; v. 273; p. 753.
Crate, Folding. L. B. Collins. No. 1,329,376; Feb. 3; v. 271; p. 6.
Crate, Folding. J. McCauley. No. 1,342,750; June 8; v. 275; p. 275.
Crate, Folding. E. Merts. No. 1,352,299; Sept. 7; v. 278; p. 112.

Digitized by Google

Crate for live stock, Collapsible shipping-. H. A. Shadel and H. Halverson. No. 1,355,173; Oct. 12; v. 279; p. 197.
Crate, Hog-breeding. A. W. Adix and G. W. Haglund. No. 1,340,357; May 18; v. 274; p. 453.
Crate, Knockdown. C. Lombardo. No. 1,333,857; Mar. 16; v. 272; p. 430.
Crate, Knockdown. W. L. Miller and F. E. Morton. No. 1,330,882; Feb. 10; v. 271; p. 225.
Crate, Milk-. D. G. Adair. No. 1,545,979; July 6; v. 276; p. 129.
Crate or box, Knockdown. J. L. Weber. No. 1,353,688; Sept. 21; v. 278; p. 483.
Crate, Poultry-. G. J. Genebach. No. 1,352,444; Sept. 14; v. 278; p. 175.
Crate, Poultry-. D. H. Spreckles. No. 1,329,344; Jan. 27; v. 270; p. 588.
Crate-press. J. H. Platt. No. 1,345,878; July 6; v. 276; p. 108.
Crate, Refrigerating shipping-. H. Michelsen. No. 1,330,947; Feb. 17; v. 271; p. 400.
Crate, Sanitary bottle-. O. E. Watson. No. 1,341,869; June 1; v. 275; p. 50.
Crate, Shipping-. H. R. Garritson. No. 1,329,966; Feb. 3; v. 271; p. 116.
Crate, Shipping-. F. R. Hale. No. 1,350,496; Aug. 24; v. 277; p. 632.
Crate, Tire-shipping. W. F. Harwood. No. 1,355,042; Oct. 5; v. 279; p. 118.
Crate, Wheel or rim. O. A. Parker. No. 1,333,673; Mar. 16; v. 272; p. 396.
Crates, Fastener for shipping-. L. W. Chapman. No. 1,331,696; Feb. 24; v. 271; p. 560.
Crating apparatus. L. A. Hawthorne. No. 1,354,250; Sept. 28; v. 278; p. 639.
Crating-machines, Container-collecting station for. L. A. Hawthorne. No. 1,361,725; Dec. 7; v. 281; p. 150.
Crawler, Compound. E. Rimailho. No. 1,352,315; Sept. 7; v. 278; p. 116.
Cream-cooler. C. J. Muckle. No. 1,329,426; Feb. 3; v. 271; p. 15.
Cream-remover. J. H. Cournyer. No. 1,355,539; Oct. 12; v. 279; p. 268.
Cream-separator. J. Clark. No. 1,341,261; May 25; v. 274; p. 696.
Cream-separator. G. A. Yeatter. No. 1,328,866; Jan. 27; v. 270; p. 500.
Cream-separator bowls, Centering device for. N. H. Norris. No. 1,361,283; Dec. 7; v. 281; p. 60.
Cream-separator neck-bearings, Cushion-spring for. C. O. Anderson. No. 1,337,987; Apr. 27; v. 273; p. 687.
Cream-separators, Liner for centrifugal. C. H. Hackett. No. 1,328,084; Jan. 13; v. 270; p. 287.
Cream-separators, Power-drive for. A. N. Breckenridge. No. 1,338,695; Aug. 3; v. 277; p. 109.
Cream-separators, Standard pedestal for. T. E., Jr., and J. B. Murray. No. 1,363,152; Dec. 21; v. 281; p. 528.
Cream-remover. B. G. Somerville. (Reissue.) No. 15,017; Dec. 28; v. 281; p. 744.
Creasing and slotting machine. G. W. Swift, Jr. No. 1,353,086; Sept. 14; v. 278; p. 303.
Credit-account register. H. A. Martin. No. 1,331,021; Feb. 17; v. 271; p. 415.
Credit-account register. H. A. Martin. No. 1,355,405; Oct. 12; v. 279; p. 242.
Creeper. D. Brightwell. No. 1,336,276; Apr. 6; v. 273; p. 108.
Creeper. W. V. Knowles. No. 1,327,103; Jan. 6; v. 270; p. 42.
Creeper. J. A. Taylor. No. 1,363,023; Dec. 21; v. 281; p. 502.
Creeper-plate. W. Petrauskas. No. 1,335,387; Mar. 30; v. 272; p. 825.
Creepless metallic tie. L. L. Brown. No. 1,351,466; Aug. 31; v. 277; p. 884.
Crib. E. V. Kletschka. No. 1,348,426; Aug. 3; v. 277; p. 59.
Crib, Folding bedside-. I. Jaklich. No. 1,331,647; Feb. 24; v. 271; p. 551.
Cribbing, Knockdown. F. H. Brenton. No. 1,361,516; Dec. 7; v. 281; p. 109.
Crimping and folding machine. J. W. Hoodwin. No. 1,353,590; Sept. 21; v. 278; p. 462.
Crimping and plaiting machine. C. A. Brewer. No. 1,361,959; Dec. 14; v. 281; p. 248.
Crimping-machine. A. J. Bates, Jr. No. 1,328,411; Jan. 20; v. 270; p. 385.
Crimping-machine. E. T. Reuter and W. A. Skinner. No. 1,345,240; June 29; v. 275; p. 955.
Crochet-hook. J. H. Akin. No. 1,355,878; Oct. 19; v. 279; p. 374.
Crockery, cutlery, &c., Apparatus for washing. A. Kammermann. No. 1,355,341; Oct. 12; v. 279; p. 230.
Crockery draining-rack. R. Newton. No. 1,356,305; Oct. 19; v. 279; p. 459.
Cross-actuators, Gear-shift for. A. F. Poole. No. 1,329,014; Jan. 27; v. 270; p. 528.
Cross-bar-blanking press. R. S. Smith. No. 1,357,357; Nov. 2; v. 280; p. 30.
Cross-bar switch. J. N. Reynolds and J. F. Hearn. No. 1,339,001; May 4; v. 274; p. 65.
Crosshead. M. D. Joyner. No. 1,362,422; Dec. 14; v. 281; p. 333.
Crosshead. J. O. McArthur. No. 1,348,287; Aug. 3; v. 277; p. 31.
Crossing-gate, Automatic. C. P. Knapp. No. 1,329,188; Jan. 27; v. 270; p. 561.
Crossing signal, Grade-. C. W. Dunham. No. 1,330,064; Feb. 10; v. 271; p. 166.
Crossing-signal, Train-operated. G. L. Sawyers. No. 1,356,090; Oct. 19; v. 279; p. 415.
Crossover. T. J. Scanlan. No. 1,327,882; Jan. 13; v. 270; p. 248.
Crosstie. R. J. Carr. No. 1,349,814; Aug. 17; v. 277; p. 453.
Crosstie. J. R. Dooley. No. 1,343,814; June 15; v. 275; p. 549.
Crosstie. T. Ross. No. 1,357,477; Nov. 2; v. 280; p. 52.
Crown-articulator. L. Cooperman. No. 1,345,433; July 6; v. 276; p. 21.
Crown-setter. S. R. Lewis. No. 1,345,608; July 6; v. 276; p. 55.
Crowns, Means for treating. D. J. Angus. No. 1,354,530; Oct. 5; v. 279; p. 17.
Croze. G. Schneck. No. 1,358,585; Nov. 9; v. 280; p. 330.
Crucible. A. E. Bellis. No. 1,358,816; Nov. 16; v. 280; p. 422.
Crucible-furnaces, Apparatus for charging and discharging. E. E. Brosius. No. 1,363,834; Dec. 28; v. 281; p. 700.
Crude-oil burner. B. F. Runyan. No. 1,339,579; May 11; v. 274; p. 249.
Cruiser, Flying. N. G. Cox. No. 1,349,323; Aug. 10; v. 277; p. 284.
Cruller-forming die. F. L. Bradbury. No. 1,340,371; May 18; v. 274; p. 456.
Crumb pan and brush. P. A. Peterson. No. 1,349,582; Aug. 17; v. 277; p. 409.
Crusher: *See*—
Clod-crusher. Portable crusher.
Coal-crusher. Reduction-crusher.
Fruit-crusher. Rock-crusher.
Gyratory crusher. Single-roll crusher.
Crusher. H. P. Andresen. No. 1,346,871; July 20; v. 276; p. 425.
Crusher. L. J. Hewes. No. 1,329,835; Feb. 3; v. 271; p. 92.
Crusher. T. F. Philippi. No. 1,333,727; Mar. 16; v. 272; p. 406.
Crusher. T. F. Philippi. No. 1,358,782; Nov. 16; v. 280; p. 415.
Crusher and shredding machine. H. E. Ellis. No. 1,358,302; Nov. 9; v. 280; p. 273.
Crusher-machines, Cage-adjusting mechanism for. W. H. Hartman and G. W. Borton. No. 1,361,054; Dec. 7; v. 281; p. 15.
Crushing and pulverizing machine. N. A. Stratton. No. 1,354,077; Sept. 28; v. 278; p. 604.
Crushing-machine. P. C. Andersen. No. 1,328,806; Jan. 27; v. 270; p. 487.
Crushing-machine. W. Elk. No. 1,352,797; Sept. 14; v. 278; p. 247.
Crushing-machine. W. K. Liggett. No. 1,358,005; Nov. 9; v. 280; p. 215.
Crushing-machine. M. J. Reno and A. Scaramella. No. 1,353,420; Sept. 21; v. 278; p. 428.
Crushing-machine. W. G. Stevenson. No. 1,345,715; July 6; v. 276; p. 76.
Crushing-mill. T. J. Sturtevant. No. 1,360,465; Nov. 30; v. 280; p. 858.
Crushing-mill. T. J. Sturtevant. No. 1,360,466; Nov. 30; v. 280; p. 858.
Crushing-mill, Gyratory. W. W. Gibson. No. 1,344,584; June 22; v. 275; p. 765.
Crushing-mill, Rotary. L. Ross. No. 1,340,407; May 18; v. 274; p. 463.
Crushing-roll machine. J. E. Kennedy. No. 1,356,291; Oct. 19; v. 279; p. 456.
Crushing-roll machine. T. J. Sturtevant. No. 1,350,748; Aug. 24; v. 277; p. 682.
Crutch. B. F. Ames. No. 1,334,208; Mar. 16; v. 272; p. 496.
Crutch. A. R. Hunter. No. 1,331,109; Feb. 17; v. 271; p. 481.
Crutch. L. Kistler. No 1,329,775; Feb. 3; v. 271; p. 80.
Crutch. F. Klousnitzer. No. 1,336,844; Apr. 13; v. 273; p. 276.
Crutch. L. F. Tarbell. No. 1,332,642; Mar. 2; v. 272; p. 90.
Crutch. D. R. N. Taylor and D. Marks. No. 1,349,639; Aug. 17; v. 277; p. 420.
Crutch, Adjustable. R. E. Lamming. No. 1,358,643; Nov. 9; v. 280; p. 342.
Crutch and cushion tips therefor. M. Bruyere. No. 1,347,320; July 20; v. 276; p. 514.
Crutch, Rolling. M. D. Scott. No. 1,361,102; Dec. 7; v. 281; p. 24.
Crutches, artificial limbs, and sticks, Pad used on. F. C. Lynde. No. 1,340,616; May 18; v. 274; p. 503.
Crutches, artificial limbs, and sticks, Pads used on. F. C. Lynde. No. 1,340,617; May 18; v. 274; p. 503.

Digitized by Google

Crutches, walking-sticks, ladders, &c., Foot for. H. H. Amadio. No. 1,348,531; Aug. 3; v. 277; p. 78.
Crypt, Sectional. G. C. Kennedy. No. 1,330,192; Feb. 10; v. 271; p. 190.
Crystal production. R. W. Moore. No. 1,347,350; July 20; v. 276; p. 520.
Crystals in bezels and rings, Device for inserting. E. G. Loomis. No. 1,344,700; June 29; v. 275; p. 852.
Crystals, Method of and apparatus for forming large. O. Dreibrodt. No. 1,353,571; Sept. 21; v. 278; p. 459.
Cue-tip. S. Kosinski. No. 1,349,069; Aug. 10; v. 277; p. 234.
Cues, Reinforced ferrule for. H. A. Jost. No. 1,335,376; Mar. 30; v. 272; p. 823.
Cuff-button, Separable. J. J. Bernier. No. 1,339,314; May 4; v. 274; p. 122.
Cuff-link. F. S. Carr. No. 1,353,109; Sept. 14; v. 278; p. 307.
Cuff-link. M. Ehrenfeld. No. 1,362,402; Dec. 14; v. 281; p. 329.
Cuff-link. J. L. Hall. No. 1,350,222; Aug. 17; v. 277; 532.
Cuff-link. A. A. McRae. No. 1,346,039; July 6; v. 276; p. 141.
Cuff-link, Automatically-adjustable. M. Cobacker. No. 1,358,291; Nov. 9; v. 280; p. 271.
Cuff-links, Safety-catch for. C. E. Forsythe. No. 1,353,525; Sept. 21; v. 278; p. 449.
Cuff-protector. J. L. Howland. No. 1,360,530; Nov. 30; v. 280; p. 871.
Cuff, Shirt-. C. A. Rolfe. No. 1,360,687; Nov. 30; v. 280; p. 901.
Cuffs, Flexible-sheet form for soft. J. A. Smith. No. 1,342,032; June 1; v. 275; p. 82.
Culinary appliance. B. C. Sabin. No. 1,335,530; Mar. 30; v. 272; p. 851.
Culinary device. W. J., C. R., and W. P. Fries. No. 1,338,129; Apr. 27; v. 273; p. 664.
Culinary device. R. Seidl. No. 1,340,566; May 18; v. 274; p. 493.
Culinary implement. C. Williams. No. 1,354,709; Oct. 5; v. 279; p. 58.
Culinary implements, Hand-guard for. H. Stricklin. No. 1,330,406; Feb. 10; v. 271; p. 280.
Culinary utensil. S. K. Allison. No. 1,332,019; Feb. 24; v. 271; p. 622.
Culinary utensil. C. S. Hirst. No. 1,350,651; Aug. 24; v. 277; p. 662.
Cultivator. C. M. Andersen. No. 1,347,926; July 27; v. 276; p. 691.
Cultivator. L. L. Beise. No. 1,360,868; Nov. 30; v. 280; p. 937.
Cultivator. H. A. Blauser. No. 1,349,657; Aug. 17; v. 277; p. 423.
Cultivator. T. A. M. Brownlie. No. 1,357,841; Nov. 2; v. 280; p. 122.
Cultivator. J. W. Burke. No. 1,336,421; Apr. 13; v. 273; p. 195.
Cultivator. F. Clawson. No. 1,355,812; Oct. 19; v. 279; p. 360.
Cultivator. S. Clemens. No. 1,335,725; Apr. 6; v. 273; p. 4.
Cultivator. A. O. Cox and P. Sager. No. 1,352,783; Sept. 14; v. 278; p. 244.
Cultivator. A. C. Croft. No. 1,357,149; Oct. 26; v. 279; p. 670.
Cultivator. R. J. Espinosa. No. 1,353,574; Sept. 21; v. 278; p. 459.
Cultivator. C. J. Gifford. No. 1,336,217; Apr. 6; v. 273; p. 97.
Cultivator. V. Guerra y Marrero. No. 1,358,864; Nov. 16; v. 280; p. 432.
Cultivator. R. L. Guthrie. No. 1,342,285; June 1; v. 275; p. 132
Cultivator. R. L. Guthrie. No. 1,351,643; Aug. 31; v. 277; p. 919.
Cultivator. G. W. Hammond. No. 1,334,855; Mar. 23; v. 272; p. 665.
Cultivator. L. L. Harding. No. 1,355,472; Oct. 12; v. 279; p. 255.
Cultivator. W. Hegland. No. 1,329,598; Feb. 3; v. 271; p. 48.
Cultivator. W. H. Hollmann. No. 1,353,342; Sept. 21; v. 278; p. 413.
Cultivator. H. H. Howell. No. 1,358,743; Nov. 16; v. 280; p. 407.
Cultivator. C. T. Huggins. No. 1,328,740; Jan. 20; v. 270; p. 447.
Cultivator. P. R. Janney. No. 1,327,828; Jan. 13; v. 270; p. 839.
Cultivator. A. Larsen. No. 1,354,495; Oct. 5; v. 279; p. 9.
Cultivator. W. Larson. No. 1,344,804; June 29; v. 275; p. 873.
Cultivator. A. C. Lindgren. No. 1,354,315; Sept. 28; v. 278; p. 652.
Cultivator. E. S. Lucas. No. 1,353,924; Sept. 28; v. 278; p. 572.
Cultivator. C. S. McCarthy, Jr. No. 1,344,138; June 22; v. 275; p. 677.
Cultivator. W. E. Marshall. No. 1,337,407; Apr. 20; v. 273; p. 457.
Cultivator. E. Marquardt. No. 1,341,064; May 25; v. 274; p. 659.
Cultivator. R. S. Mattingley. No. 1,341,240; May 25; v. 274; p. 693.
Cultivator. J. Ostanek. No. 1,357,649; Nov. 2; v. 280; p. 84.
Cultivator. W. L. Paul. No. 1,327,212; Jan. 6; v. 270; p. 62.
Cultivator. W. L. Paul. No. 1,335,074; Mar. 30; v. 272; p. 766.
Cultivator. C. S. Sharp. No. 1,346,512; July 13; v. 276; p. 295.
Cultivator. H. C. Smith. No. 1,342,302; June 1; v. 275; p. 135.
Cultivator. S. P. Taylor. No. 1,363,375; Dec. 28; v. 281; p. 610.
Cultivator. R. W. Thayer. No. 1,344,833; June 29; v. 275; p. 878.
Cultivator. F. C. Warne. No. 1,327,413; Jan. 6; v. 270; p. 99.
Cultivator. D. K. Wilson. No. 1,350,050; Aug. 17; v. 277; p. 499.
Cultivator and digger. S. J. Berlin. No. 1,334,214; Mar. 16; v. 272; p. 497.
Cultivator attachment. J. W. Runyans. No. 1,360,801; Nov. 30; v. 280; p. 924.
Cultivator attachment. D. A. Byrd. No. 1,334,223; Mar. 16; v. 272; p. 498.
Cultivator attachment. O. Fuller. No. 1,334,994; Mar. 30; v. 272; p. 752.
Cultivator attachment. V. R. Rodgers. No. 1,331,380; Feb. 17; v. 271; p. 480.
Cultivator attachment. T. Starch. No. 1,351,704; Aug. 31; v. 277; p. 930.
Cultivator attachment. R. W. Williams. No. 1,354,364; Sept. 28; v. 278; p. 662.
Cultivator, Attachment for lister-. M. E. Degge. No. 1,355,454; Oct. 12; v. 279; p. 251.
Cultivator, Balanced-axle. S. W. Cady. No. 1,358,057; Nov. 9; v. 280; p. 225.
Cultivator-beam support. S. Newell. No. 1,332,994; Mar. 9; v. 272; p. 208.
Cultivator, Disk. G. D. Houston. No. 1,335,057; Mar. 30; v. 272; p. 763.
Cultivator-fender. C. B. Hook. No. 1,328,518; Jan. 20; v. 270; p. 406.
Cultivator mechanism. D. S. Kohl. No. 1,360,649; Nov. 30; v. 280; p. 894.
Cultivator mechanism. W. N. Springer. No. 1,358,997; Nov. 16; v. 280; p. 457.
Cultivator, Motor-driven tractor-. E. S. Lucas. No. 1,353,923; Sept. 28; v. 278; p. 672.
Cultivator, One-horse sulky-. A. W. Reynolds. No. 1,339,864; May 11; v. 274; p. 303.
Cultivator, Ridged land-. B. A. Rupprecht. No. 1,361,906; Dec 14; v. 281; p. 232.
Cultivator-shield. S. H. Garst. No. 1,349,419; Aug. 10; v. 277; p. 303.
Cultivator-shifting mechanism. B. M. Mathias. No. 1,332,947; Mar. 9; v. 272; p. 199.
Cultivator, Spring-beam. J. G. Alexander. No. 1,335,928; Apr. 6; v. 273; p. 42.
Cultivator, Surface. J. Ferris. No. 1,353,992; Sept. 28; v. 278; p. 586.
Cultivator-tooth. C. A. Martin. No. 1,345,209; June 29; v. 275; p. 949.
Cultivator, Tractor-. L. Bryant. No. 1,359,868; Nov. 23; v. 280; p. 672.
Cultivator, Tractor-. G. E. Malin. No. 1,347,818; July 27; v. 276; p. 669.
Cultivator, Two-row. J. V. Holstein. No. 1,346,817; July 13; v. 276; p. 258.
Cultivator, Walking-. D. Blaser. No. 1,348,693; Aug. 3; v. 277; p. 109.
Cultivator, Wheel-. F. A. Woolf. No. 1,350,906; Aug. 24; v. 277; p. 710.
Cultivator-wheel adjustment. O. W. Howard. No. 1,346,318; July 13; v. 276; p. 258.
Cultivators, Cotton-chopper attachment for. W. A. Martin and M. P. Roebuck. No. 1,347,646; July 27; v. 276; p. 635
Cultivators, Planting attachment for. H. J. Passmore and W. M. Neyland. No. 1,333,505; Mar. 9; v. 272; p. 303.
Cultivators, Shield for. R. A. Humphrey. No. 1,357,072; Oct. 26; v. 279; p. 659.
Cultivators, Weed-cutting attachment for. H. P. Twistern. No. 1,335,410; Mar. 30; v. 272; p. 829.
Cultivators, Weeding attachment for. W. H. Long. No. 1,334,621; Mar. 23; v. 272; p. 620.
Cultivators, Weeding attachment for. C. M. and M. V. Long. No. 1,343,058; June 8; v. 275; p. 337.
Cultivating-machine, Riding. L. H. Holt. No. 1,354,556; Oct. 5; v. 279; p. 22.
Culvert. C. F. J. Charliss. No. 1,334,484; Mar. 23; v. 272; p. 594.
Culvert. M. R. Deyo. No. 1,361,027; Dec. 7; v. 281; p. 9.
Culvert. R. W. McQueary. No. 1,362,952; Dec. 21; v. 281; p. 488.
Culvert. J. Riedl. No. 1,363,056; Dec. 21; v. 281; p. 509.

Digitized by Google

Cup: *See*—
Dental-mold cup.
Drinking-cup.
Grain seed-cup.
Grease-cup.
Lubricating-cup.
Oil-cup.
Oiling-cup.
Paper cup.
Primary cup.
Priming-cup.
Priming and testing cup.
Putting-green cup.
Sanitary cup.
Soldering-cup.
Valve-grinder cup.
Valve-stem-packing cup.
Cup and releasable handle therefor. G. P. Iltenberg. No. 1,338,480; Apr. 27; v. 273; p. 730.
Cup-dispenser. L. W. Luellen. No. 1,337,843; Apr. 20; v. 273; p. 540.
Cup holder, Sputum-. A. Z. Rubin. No. 1,345,252; June 29; v. 275; p. 958.
Cup or box. M. Jakobson. No. 1,343,726; June 15; v. 275; p. 531.
Cups and similar articles, Carton for. S. Bergman. No. 1,346,792; July 13; v. 276; p. 352.
Cups, Coin-controlled device for dispensing. H. M. Hill. No. 1,344,692; June 29; v. 275; p. 851.
Cups, Manufacturing. J. V. Weckbaugh. No. 1,359,773; Nov. 23; v. 280; p. 654.
Cupola-charging mechanism. L. W. Kellum. No. 1,335,741; Apr. 6; v. 273; p. 7.
Cupola-tap. C. Gray. No. 1,360,520; Nov. 30; v. 280; p. 869.
Curing-house. R. B. Vaughan and R. M. Love. No. 1,354,008; Sept. 28; v. 278; p. 589.
Curler. O. E. Vandamark. No. 1,345,040; June 29; v. 275; p. 917.
Current, Apparatus and method for rectifying high-tension alternating. W. A. Schmidt and L. Bradley. No. 1,340,502; May 18; v. 274; p. 481.
Current circuits, Regulating system for alternating-. E. J. Murphy and L. W. Thompson. No. 1,337,942; Apr. 20; v. 273; p. 559.
Current-control and brake-valve mechanism, Automatic. W. Gardiner. No. 1,360,918; Nov. 30; v. 280; p. 946.
Current-controlling device. L. Bradley. No. 1,361,675; Dec. 7; v. 281; p. 140.
Current from an alternating-current line, Device for taking a regulable constant continuous. H. Greinacher. No. 1,329,897; Feb. 3; v. 271; p. 104.
Current generator, Alternating-. T. F. Wall. No. 1,356,244; Oct. 19; v. 279; p. 447.
Current generators, Voltage-regulator for alternating-. F. H. Winter. No. 1,353,691; Sept. 21; v. 278; p. 483.
Current generators, Voltage-regulator for direct and alternating. J. W. Millnor. No. 1,353,060; Sept. 14; v. 278; p. 298.
Current-motor. H. C. Canaday. No. 1,334,595; Mar. 23; v. 272; p. 615.
Current-motor. A. S. Christensen. No. 1,355,386; Oct. 12; v. 279; p. 238.
Current-motor. F. L. Gilman and W. M. Baum. No. 1,353,906; Sept. 28; v. 278; p. 568.
Current-motor. H. Holden. No. 1,332,178; Feb. 24; v. 271; p. 650.
Current-motor. J. F. Laycock. No. 1,332,299; Mar. 2; v. 272; p. 24.
Current-motor. W. H. Tharp. No. 1,327,745; Jan. 13; v. 270; p. 223.
Current-motor. H. A. J. Thiesen. No. 1,360,472; Nov. 30; v. 280; p. 859.
Current-motor. T. H. Walker. No. 1,346,285; July 13; v. 276; p. 251.
Current motor, Alternating-. V. A. Fynn. No. 1,335,050; Mar. 30; v. 272; p. 762.
Current motor, Alternating-. W. C. Korthals-Altes. No. 1,347,783; July 27; v. 276; p. 663.
Current motor, Compensated series alternating-. W. C. Korthals-Altes. No. 1,359,855; Nov. 23; v. 280; p. 669.
Current rectifier, Alternating-. F. W. Adsit. No. 1,332,862; Mar. 2; v. 272; p. 131.
Current rectifier, Alternating-. E. C. Ballman. No. 1,357,942; Nov. 9; v. 280; p. 202.
Current-regulating plug and socket. A. Papini. No. 1,338,998; May 4; v. 274; p. 64.
Current separating process and device, Upward-. C. Allen. No. 1,339,683; May 11; v. 274; p. 269.
Currents, Apparatus for rectifying high-tension alternating. W. A. Schmidt. No. 1,358,902; Nov. 16; v. 280; p. 456.
Currents, Means for controlling alternating. E. F. W. Alexanderson. No. 1,328,473; Jan. 20; v. 270; p. 397.
Currents, Means for controlling alternating. E. F. W. Alexanderson. No. 1,328,797; Jan. 20; v. 270; p. 457.
Currents, Means for controlling alternating. E. F. W. Alexanderson. No. 1,334,126; Mar. 16; v. 272; p. 481.
Currents, Means for regulating alternating. E. R. Stoekle. No. 1,360,462; Nov. 30; v. 280; p. 857.
Currents, Method of and means for controlling high-frequency alternating. E. F. W. Alexanderson. No. 1,328,610; Jan. 20; v. 270; p. 423.
Currents, Modulation of high-frequency. R. A. Heising. No. 1,341,211; May 25; v. 274; p. 687.
Currents or potentials, Method of and means for obtaining constant direct. I. Langmuir. No. 1,349,892; Aug. 17; v. 277; p. 468.
Currents, System for amplification of small. C. W. Rice. No. 1,334,118; Mar. 16; v. 272; p. 480.
Currycomb. H. A. Mecklenburg. No. 1,327,246; Jan. 6; v. 270; p. 69.
Curtain and drapery holder, Combination. M. A. and O. Yates. No. 1,359,012; Nov. 16; v. 280; p. 460.
Curtain and portière hanger. W. Rakowski. No. 1,336,047; Apr. 6; v. 273; p. 65.
Curtain and shade bracket. A. Kohlenbrand. No. 1,333,425; Mar. 9; v. 272; p. 288.
Curtain and shade bracket. J. Mastalerz. No. 1,358,967; Nov. 16; v. 280; p. 451.
Curtain and shade bracket. A. C. Hunter. No. 1,354,974; Oct. 5; v. 279; p. 105.
Curtain and shade fixture. R. L. Collins. No. 1,327,460; Jan. 6; v. 270; p. 108.
Curtain and shade frame. A. J. Pukt. No. 1,337,370; Apr. 20; v. 273; p. 450.
Curtain and shade hanger. E. J. Corrigan. No. 1,343,997; June 22; v. 275; p. 649.
Curtain and shade holder. P. Pys. No. 1,354,017; Oct. 5; v. 279; p. 94.
Curtain and shade support. I. Gosar. No. 1,351,289; Aug. 31; v. 277; p. 848.
Curtain and shade support, Combined. E. E. Fields. No. 1,344,298; June 22; v. 275; p. 708.
Curtain and shade support, Window. J. Krotowych. No. 1,353,122; Sept. 14; v. 278; p. 310.
Curtain, Automobile-. J. J. Moore. No. 1,343,148; June 8; v. 275; p. 354.
Curtain, Automobile panel-. D. G. Townsend. No. 1,345,901; July 6; v. 276; p. 113.
Curtain, Automobile-radiator. H. R. Hill. No. 1,334,270; Mar. 16; v. 272; p. 507.
Curtain-bracket. M. J. Manahan. No. 1,328,579; Jan. 20; v. 270; p. 417.
Curtain-bracket. R. E. Patrick. No. 1,358,571; Nov. 9; v. 280; p. 328.
Curtain-draper, Self-adjusting. J. L. Kinikin. No. 1,344,233; June 22; v. 275; p. 695.
Curtain-fastener. G. W. Fortier. No. 1,363,244; Dec. 28; v. 281; p. 586.
Curtain-fastener. F. H. Hart. No. 1,349,569; Aug. 17; v. 277; p. 406.
Curtain-fastener. W. Raeburn. No. 1,357,186; Oct. 26; v. 279; p. 676.
Curtain-fastener. H. K. Tarkington. No. 1,338,883; May 4; v. 274; p. 43.
Curtain fastener, Vehicle-. R. A. Moore. No. 1,354,506; Oct. 5; v. 279; p. 12.
Curtain-fitting. E. L. Wilson. No. 1,339,247; May 4; v. 274; p. 110.
Curtain-fixture. J. H. Boye. No. 1,333,702; Mar. 16; v. 272; p. 402.
Curtain-fixture. J. H. Boye. No. 1,349,041; Aug. 10; v. 277; p. 229.
Curtain-fixture. S. C. Hills. No. 1,361,058; Dec. 7; v. 281; p. 15.
Curtain-fixture. D. Hoyt. No. 1,335,968; Apr. 6; v. 273; p. 50.
Curtain-fixture. S. J. Lask. No. 1,344,412; June 22; v. 275; p. 730.
Curtain fixture, Window-. J. J. Reilly. No. 1,350,336; Aug. 24; v. 277; p. 600.
Curtain, Flexible. J. Cahill. No. 1,352,656; Sept. 14; v. 278; p. 218.
Curtain for vehicle-tops, Side. J. L. Reider. No. 1,363,351; Dec. 28; v. 281; p. 606.
Curtain-frame. J. O'Callahan. No. 1,335,854; Apr. 6; v. 273; p. 28.
Curtain-hanger. J. H. Boye. No. 1,352,652; Sept. 14; v. 278; p. 217.
Curtain-hanger. A. Lewandowsky. No. 1,338,312; Apr. 27; v. 273; p. 698.
Curtain-holder. A. M. Gross. No. 1,345,170; June 29; v. 275; p. 942.
Curtain-holder. W. Jamison. No. 1,334,034; Mar. 16; v. 272; p. 464.
Curtain-holder. G. McLean. No. 1,333,326; Mar. 9; v. 272; p. 270.
Curtain-holder. A. M. Pitkin. No. 1,331,079; Feb. 17; v. 271; p. 426.
Curtain-holder. S. Zyskowski. No. 1,331,738; Feb. 24; v. 271; p. 568.
Curtain holder, Automatic vestibule-. C. M. Hoffman and J. Thomisser. No. 1,348,114; July 27; v. 276; p. 729.
Curtain holder, Side-. J. P. Gray. No. 1,345,086; June 29; v. 275; p. 925.
Curtain-hook. J. C. Schmidt. No. 1,361,624; Dec. 7; v. 281; p. 130.
Curtain or panel, Automobile. W. C. Loud. No. 1,355,558; Oct. 12; v. 279; p. 271.
Curtain-pile fixture, Drapery-. W. E. Kimber. No. 1,339,353; May 4; v. 274; p. 130.
Curtain-pole and shade supporting bracket. G. D. Bruce. No. 1,335,954; Apr. 6; v. 273; p. 47.
Curtain-pole and shade-roller holder. F. J. Wrona. No. 1,336,936; Apr. 13; v. 273; p. 294.
Curtain-pole and window-shade bracket, Combined. E. R. Sell. No. 1,347,126; July 20; v. 276; p. 475.
Curtain-pole and window-shade holder. E. Mikolyn. No. 1,346,233; July 13; v. 276; p. 240.

Digitized by Google

Curtain-pole lifter. M. Cayton. No. 1,334,649; Mar. 23; v. 272; p. 625.
Curtain-pole support. R. G. Crosbie. No. 1,337,594; Apr. 20; v. 273; p. 492.
Curtain-rod. J. H. Boye. No. 1,349,042; Aug. 10; v. 277; p. 229.
Curtain-rod and shade-roller support. G. E. Alphin. No. 1,345,340; July 6; v. 276; p. 3.
Curtain-rod bracket, Adjustable. R. E. Fisher. No. 1,341,742; June 1; v. 275; p. 26.
Curtain-rod fixture. G. H. Smith. No. 1,347,525; July 27; v. 276; p. 611.
Curtain-rod support. A. Schmidt. No. 1,352,479; Sept. 14; v. 278; p. 183.
Curtain-rods, Device for carrying. S. V. Holm. No. 1,357,054; Oct. 26; v. 279; p. 661.
Curtain-rods, Device for the carrying of. S. V. Holm. No. 1,355,974; Oct. 19; v. 279; p. 392.
Curtain-roller. E. G. Simpson. No. 1,344,358; June 22; v. 275; p. 720.
Curtain-securer. R. Morris. No. 1,354,678; Oct. 5; v. 279; p. 47.
Curtain-stretcher. A. Hopkins. No. 1,328,995; Jan. 27; v. 270; p. 524.
Curtain-stretcher. S. and J. Pasternak. No. 1,353,067; Sept. 14; v. 278; p. 300.
Curtain-stretcher. S. Solomon. No. 1,342,396; June 1; v. 275; p. 152.
Curtain-stretcher. L. E. Wood. No. 1,351,274; Aug. 31; v. 277; p. 845.
Curtain-support. W. I. Levi; No. 1,351,919; Sept. 7; v. 278; p. 42.
Curtain-support. F. A. Peters. No. 1,327,961; Jan. 13; v. 270; p. 263.
Curtain-support. G. H. Smith. No. 1,350,846; Aug. 24; v. 277; p. 700.
Curtain, Theater drop-. P. E. Rahn. No. 1,358,111; Nov. 9; v. 280; p. 236.
Curtain, Vehicle-. M. Abbott. No. 1,358,491; Nov. 9; v. 280; p. 312.
Curtain, Vehicle-. H. W. Schwarz. No. 1,358,341; Nov. 9; v. 280; p. 281.
Curtain, Vehicle side. G. W. Scott. No. 1,350,471; Aug. 24; v. 277; p. 627.
Curtain, Window-. G. E. Losee. No. 1,331,346; Feb. 17; v. 271; p. 474.
Curtains, awnings, &c., Securing device for vehicle-. J. C. Cramp. No. 1,335,368; Mar. 30; v. 272; p. 821.
Curtains, Detachable light for vehicle-. D. M. Winans. No. 1,336,116; Apr. 6; v. 273; p. 78.
Curtains, Detachable light for vehicle-. D. M. Winans. No. 1,363,702; Dec. 28; v. 281; p. 674.
Curtains, Window-frame for vehicle-. E. E. Pemble. No. 1,342,460; June 8; v. 275; p. 218.
Curve pull-off hanger. J. R. Brown. No. 1,336,504; Apr. 13; v. 273; p. 210.
Cushion: *See*—
- Air-cushion.
- Die-cushion.
- Pin and needle cushion.
- Pneumatic cushion.
- Seat-cushion.
- Spring-cushion.
- Spring-die cushion.
- Tire-cushion.

Cushion. H. H. Frey. No. 1,361,453; Dec. 7; v. 281; p. 96.
Cushion. S. Solomon. No. 1,356,320; Oct. 19; v. 279; p. 462.
Cushion-cover. B. H. Blocksom. No. 1,349,258; Aug. 10; v. 277; p. 272.
Cushion for sliding-side cribs. W. B. Foster. No. 1,345,485; July 6; v. 276; p. 31.
Cushion-forming machine. J. H. Levin. No. 1,331,160; Feb. 17; v. 271; p. 440.
Cushion-seat. J. J. Wiselogel. No. 1,339,537; May 11; v. 274; p. 241.
Cushion-spring. J. W. Fitzgerald. No. 1,333,801; Mar. 16; v. 272; p. 420.
Cushion-spring-assembling machine. C. C. Meutsch and E. A. Christoph. No. 1,348,654; Aug. 3; v. 277; p. 102.
Cushion-support. F. W. Bocking. No. 1,345,987; July 6; v. 276; p. 131.
Cushion-wheel. P. H. Dorsey. No. 1,344,337; June 22; v. 275; p. 716.
Cushion-wheel. W. W. Krutsch. No. 1,335,245; Mar. 30; v. 272; p. 798.
Cushion-wheel. G. M. Peters. No. 1,342,461; June 8; v. 275; p. 218.
Cushions, Spring structure for. P. I. Langlyke. No. 1,352,977; Sept. 14; v. 278; p. 282.
Cushioned wheel. G. R. Barker. No. 1,328,779; Jan. 20; v. 270; p. 454.
Cushioned wheel. A. S. Duffies. No. 1,353,325; Sept. 21; v. 278; p. 409.
Cuspidor. F. R. Cook. No. 1,362,474; Dec. 14; v. 281; p. 343.
Cuspidor. E. Iverson. No. 1,329,124; Jan. 27; v. 270; p. 549.
Cuspidor. F. Lipar. No. 1,345,609; July 6; v. 276; p. 55.
Cuspidor. E. J. Wilson. No. 1,330,828; Feb. 17; v. 271; p. 377.
Cuspidor bracket, Sanitary. W. G. Batson. No. 1,342,889; June 8; v. 275; p. 303.
Cuspidor-cleaner. C. Cosme. No. 1,342,739; June 8; v. 275; p. 273.
Cuspidor, Hygienic. S. Gitlitz. No. 1,361,712; Dec. 7; v. 281; p. 147.
Cuspidor or refuse-receptacle, Sanitary. K. Dombkowski. No. 1,326,919; Jan. 6; v. 270; p. 7.
Cuspidor, Sanitary. J. Plucienski. No. 1,343,406; June 15; v. 275; p. 468.
Cut-off, Downspout. E. W. Vogt. No. 1,328,848; Jan. 20; v. 270; p. 373.
Cut-off, Drain. L. Little. No. 1,327,881; Jan. 13; v. 270; p. 239.
Cut-off machine. N. F. Fretter. No. 1,348,635; Aug. 3; v. 277; p. 98.
Cut-off mechanism. J. S. Haase and S. M. Langston. No. 1,359,058; Nov. 16; v. 280; p. 468.
Cut-off mechanism. S. M. Langston. No. 1,359,076; Nov. 16; v. 280; p. 472.
Cut-off switch, Time-retarded. M. H. Baker. No. 1,328,477; Jan. 20; v. 270; p. 398.
Cut-off, Thermostatic. A. U. Sarnmark. No. 1,352,538; Sept. 14; v. 278; p. 194.
Cut-out, Automatic controller. G. M. Shearer. No. 1,362,357; Dec. 14; v. 281; p. 321.
Cut-out, Automatic controller. G. M. Shearer. No. 1,362,358; Dec. 14; v. 281; p. 321.
Cut-out box. H. H. Brown. No. 1,355,886; Oct. 19; v. 279; p. 375.
Cut-out, Testing. P. H. Bartlett. No. 1,330,280; Feb. 10; v. 271; p. 197.
Cutlery, Article of. H. C. Hart No. 1,332,254; Mar. 2; v. 272; p. 15.
Cutlery, Article of. H. C. Hart. No. 1,332,255; Mar. 2; v. 272; p. 15.
Cutlery-handle. W. A. Eckert. No. 1,333,066; Mar. 9; v. 272; p. 221.
Cutlery holder, Dining-. A. Onufryk. No. 1,346,909; July 20; v. 276; p. 433.
Cutlery-renovating machine, Knife-controlling mechanism for. C. H. J. Dilg. No. 1,346,804; July 13; v. 276; p. 354.
Cutter: *See*—
- Adjustable cutter.
- Asphalt-cutter.
- Bean or weed cutter.
- Belt-cutter.
- Bread-cutter.
- Broom-corn and maize cutter.
- Brush-cutter.
- Brush and weed cutter.
- Butter-cutter.
- Candy-cutter.
- Cane-cutter.
- Carbon-cutter.
- Casing-cutter.
- Cigar-tip cutter.
- Cloth-cutter.
- Container-cover-mounted cutter.
- Cord-cutter.
- Corn-cutter.
- Cornstalk-cutter.
- Corner-cutter.
- Cotton-seed cutter.
- Dough-cutter
- Ensilage-cutter.
- Food-cutter.
- Fruit-cutter.
- Glass-cutter.
- Hair-cutter.
- Heel-cutter.
- Ice-cutter.
- Ice-cream cutter.
- Leather-strap cutter.
- Milling-cutter.
- Needle-cutter.
- Noodle-cutter.
- Paper-cutter.
- Pipe-cutter.
- Potato-cutter.
- Rivet-cutter.
- Rod-cutter.
- Rotary cutter.
- Routing-cutter.
- Sand-cutter.
- Scrap-cutter.
- Sheet-metal cutter.
- Spiral cutter.
- Thread-cutter.
- Tooth-cutter.
- Vegetable-cutter.
- Vine-cutter.
- Weed-cutter.
- Weed and clod cutter.
- Wire-cutter.
- Worm-wheel cutter.

Cutter. W. C. Farnum. No. 1,338,822; May 4; v. 274; p. 32.
Cutter. G. J. Pfister. No. 1,340,137; May 11; v. 274; p. 355.
Cutter. W. S. Runnels. No. 1,359,748; Nov. 23; v. 280; p. 649.
Cutter. C. B. Sherlock and J. B. Morse. No. 1,340,800; May 18; v. 274; p. 537.
Cutter and scraper, Combined. E. C. Waddington. No. 1,347,237; July 20; v. 276; p. 497.
Cutter-bar. L. N. Hathaway, M. W. Twombly, and E. H. Hammond. No. 1,347,330; July 20; v. 276; p. 516.
Cutter-bar and bushing therefor. F. J. Lapointe. No. 1,339,656; May 11; v. 274; p. 264.
Cutter-clearance gage. W. Dallas. No. 1,340,022; May 11; v. 274; p. 333.
Cutter-grinding and similar operations, Fixture for use in. W. B. Tulek. No. 1,352,703; Sept. 14; v. 278; p. 227.
Cutter-guard. E. A. Williams. No. 1,334,340; Mar. 23; v. 272; p. 567.
Cutter-head. G. A. Anderson. No. 1,327,007; Jan. 6; v. 270; p. 24.
Cutter-head. G. A. Anderson. No. 1,327,008; Jan. 6; v. 270; p. 25.
Cutter-head. D. J. Dixon. No. 1,338,819; May 4; v. 274; p. 32.
Cutter-head. J. A. Eden, Jr. No. 1,342,535; June 8; v. 275; p. 233.
Cutter-head. H. A. Elston. No. 1,358,533; Nov. 9; v. 289; p. 320.

Digitized by Google

Cutter-head. A. B. Landis. No. 1,344,908; June 29; v. 275; p. 892.
Cutter-head. F. P. Miller. No. 1,342,055; June 1; v. 275; p. 87.
Cutter-head. E. S. Shimer. No. 1,348,753; Aug. 3; v. 277; p. 119.
Cutter-head. W. M. Whitney. No. 1,363,192; Dec. 21; v. 281; p. 535.
Cutter-heads, Knife-scouring means for. G. L. Kraher. No. 1,346,215; July 13; v. 276; p. 236.
Cutter-heads, Support for grinding. E. Stauder. No. 1,358,998; Nov. 16; v. 280; p. 457.
Cutter-holder. E. W. Miner. No. 1,332,055; Feb. 24; v. 271; p. 629.
Cutters, Detachable handle for. R. P. Collins. No. 1,357,763; Nov. 2; v. 280; p. 107.
Cutters, Self-feeder for flock-. C. B. Cox, Jr. No. 1,327,612; Jan. 13; v. 270; p. 198.
Cutting and folding machine. C. Gutberlet. No. 1,337,900; Apr. 20; v. 273; p. 551.
Cutting and folding machine. H. E. Leonard. No. 1,337,778; Apr. 20; v. 273; p. 528.
Cutting and molding machine. H. E. Leonard. No. 1,344,302; June 22; v. 275; p. 709.
Cutting and folding machine. H. E. Leonard. No. 1,357,644; Nov. 2; v. 280; p. 84.
Cutting and slicing apparatus. W. G. Ward. No. 1,360,480; Nov. 30; v. 280; p. 861.
Cutting-blade attachment. W. A. Darling. No. 1,359,339; Nov. 16; v. 280; p. 523.
Cutting-block. C. F. Connor. No. 1,340,018; May 11; v. 274; p. 332.
Cutting-block. S. Gmeiner. No. 1,360,286; Nov. 30; v. 280; p. 823.
Cutting device. W. J. Leighty. No. 1,327,715; Jan. 13; v. 270; p. 217.
Cutting die, Sole-. T. W. Bilello. No. 1,343,383; June 15; v. 275; p. 463.
Cutting implement. W. Rhodes. No. 1,360,797; Nov. 30; v. 280; p. 923.
Cutting implement, Hand-controlled rotary. E. H. Madère. No. 1,342,294; June 1; v. 275; p. 133.
Cutting-knife, Adjustable. W. F. Morse. No. 1,351,115; Aug. 31; v. 277; p. 813.
Cutting-machine. C. W. Bailey and J. H. Stewart. No. 1,346,626; July 13; v. 276; p. 318.
Cutting-machine. W. C. Baxter. No. 1,344,975; June 29; v. 275; p. 904.
Cutting-machine. W. C. Baxter. No. 1,363,221; Dec. 28; v. 281; p. 581.
Cutting-machine. I. C. Buckminster. No. 1,347,615; July 27; v. 276; p. 629.
Cutting-machine. H. H. Eaton. No. 1,337,208; Apr. 20; v. 273; p. 420.
Cutting machine. W. C. Waller. No. 1,355,021; Oct. 5; v. 279; p. 114.
Cutting machine, Scroll-. J. H. Behee. No. 1,337,428; Apr. 20; v. 273; p. 461.
Cutting machine, Stock-. E. E. Winkley. No. 1,332,530; Mar. 2; v. 272; p. 69.
Cutting-machines, Cutting attachment for. J. P. Weis. No. 1,342,008; June 1; v. 275; p. 77.
Cutting means. J. T. and P. P. Murphy. No. 1,343,639; June 15; v. 275; p. 514.
Cutting moving material into lengths, Machine for. K. M. Clipsham and M. B. Jackson, Jr. No. 1,347,618; July 27; v. 276; p. 629.
Cutting or sawing machinery. S. P. Blanckensee. No. 1,336,501; Apr. 13; v. 273; p. 209.
Cutting out and stamping out, Machine for. L. F. Gros. No. 1,353,831; Sept. 28; v. 278; p. 554.
Cutting rings and washers from rubber tubing, Means for. J. E. Perrault. No. 1,348,316; Aug. 3; v. 277; p. 37.
Cutting sheet material. C. B. Howard. No. 1,340,225; May 18; v. 274; p. 428.
Cutting sheet material, Machine for. C. B. Johnson. No. 1,355,796; Oct. 12; v. 279; p. 316.
Cutting-tables, Cloth-holder for. M. Breth and T. R. Atkinson. No. 1,358,515; Nov. 9; v. 280; p. 317.
Cutting tapered elliptical holes, Apparatus for. F. E. B. Fripp. No. 1,342,261; June 1; v. 275; p. 127.
Cutting-tool. P. Pedersen. No. 1,361,798; Dec. 7; v. 281; p. 163.
Cutting-tool. A. R. Scott. No. 1,341,482; May 25; v. 274; p. 740.
Cutting-tools, Manufacturing. H. P. Arnold. No. 1,339,152; May 4; v. 274; p. 93.
Cutting vents in automobile-hoods, Machine for. I. Fleming and H. S. Hill. No. 1,353,524; Sept. 21; v. 278; p. 449.
Cyanamid, Apparatus for the manufacture of. A. Duchemin. No. 1,363,096; Dec. 21; v. 281; p. 516.
Cyanid compound and producing same. W. S. Landis. No. 1,359,257; Nov. 16; v. 280; p. 506.
Cyanid, Making sodium. A. Kaufman. No. 1,339,706; May 11; v. 274; p. 274.
Cyanid, Producing. W. D. Mount. No. 1,329,722; Feb. 3; v. 271; p. 70.
Cyanid - producing apparatus. W. D. Mount. No. 1,329,721; Feb. 3; v. 271; p. 70.
Cyanids and nitrids, Synthetic production of. A. R. Lindblad. No. 1,328,575; Jan. 20; v. 270; p. 417.
Cyanids, Manufacture of. O. L. Barnebey. No. 1,355,642; Oct. 12; v. 279; p. 287.
Cyanids, Process and means for producing metallic. C. P. Hidden. No. 1,352,192; Sept. 7; v. 278; p. 91.
Cyanogen compound of an alkali metal, Obtaining the. J. C. Clancy. No. 1,352,175; Sept. 7; v. 278; p. 89.
Cyanogen compounds, Manufacturing. H. Foersterling, H. Philipp, and R. N. Sargent. No. 1,332,439; Mar. 2; v. 272; p. 51.
Cyanogen compounds, Producing. J. C. Clancy. No. 1,329,652; Feb. 3; v. 271; p. 57.
Cycle, Hobby-. W. E. Howes. No. 1,347,099; July 20; v. 276; p. 470.
Cycle-rest, Auxiliary. H. Mohr. No. 1,357,890; Nov. 2; v. 280; p. 131.
Cycle, Tread-. W. R. Young. No. 1,353,011; Sept. 14; v. 278; p. 289.
Cycles, Elastic suspension of. E. L. Viard and F. A. Bouillit. No. 1,335,765; Apr. 6; v. 273; p. 12.
Cycles, Motorcycles, cycle-cars, or the like, Method and means of springing the driving-wheels of. E. F. Harmer. No. 1,361,382; Dec. 7; v. 281; p. 80.
Cycles, motorcycles, &c., Pedal for. N. Saito. No. 1,362,145; Dec. 14; v. 281; p. 280.
Cycles, Spring-fork for. W. J. Bliffert. No. 1,330,938; Feb. 17; v. 271; p. 398.
Cycles, Variable-speed device for. R. R. Baron. No. 1,350,288; Aug. 17; v. 277; p. 544.
Cyclometer attachment. E. Walder. No. 1,361,421; Dec. 7; v. 281; p. 89.
Cylinder and making same, Motor-. E. E. Allyne and J. W. Collins. No. 1,347,477; July 20; v. 276; p. 544.
Cylinder-block. W. O. Bentley. No. 1,357,588; Nov. 2; v. 280; p. 63.
Cylinder-block holder. G. J. S. Collins. No. 1,351,232; Aug. 31; v. 277; p. 837.
Cylinder, Commutator-. J. S. Dean. No. 1,329,267; Jan. 27; v. 270; p. 575.
Cylinder, Commutator-. C. B. Mills. No. 1,362,029; Dec. 14; v. 281; p. 257.
Cylinder-covering for reducing steam consumption, Inside. V. N. Stankoff. No. 1,360,043; Nov. 23; v. 280; p. 707.
Cylinder-forming machines. H. L. Weed. No. 1,328,409; Jan. 20; v. 270; p. 385.
Cylinder-forming process. H. L. Weed. No. 1,348,674; Aug. 3; v. 277; p. 106.
Cylinder, Garnet-. H. V. Coulston. No. 1,346,637; July 13; v. 276; p. 320.
Cylinder-head, Combined. T. D. Lemieux. No. 1,343,678; June 15; v. 275; p. 522.
Cylinder, Internal-combustion-motor. J. E. Diamond. No. 1,347,478; July 20; v. 276; p. 545.
Cylinder, Laundry-washer. M. S. Mitchell. No. 1,330,948; Feb. 17; v. 271; p. 401.
Cylinder-lock. W. E. Deibert. No. 1,343,438; June 15; v. 275; p. 474.
Cylinder, Machine with rotary and self-controlling. W. A. C. Blankenburg. No. 1,328,261; Jan. 20; v. 270; p. 356.
Cylinder, Positive-gripping. J. A. Olson. No. 1,334,503; Mar. 23; v. 272; p. 598.
Cylinders, Apparatus for reboring. E. E. Larson. No. 1,344,410; June 22; v. 275; p. 730.
Cylinders, Composition of matter for lubricating steam-. L. B. Lockhart. No. 1,330,882; Feb. 17; v. 271; p. 388.
Cylinders, Device for capping off. H. F. Hitner and T. E. Oakes. No. 1,339,200; May 4; v. 274; p. 102.
Cylinders, Manufacture of piston-valve locomotive-. P. Sheedy. No. 1,334,715; Mar. 23; v. 272; p. 637.
Cylinders, Means for lubricating flexible packings in. C. P. Cass. No. 1,360,497; Nov. 30; v. 280; p. 864.
Cylinders, Means for supporting gas-holding. M. von Recklinghausen. No. 1,345,042; June 29; v. 275; p. 917.
Cylinders, Portable boring and grinding device for automobile-. W. S. Myers and A. L. Smith. No. 1,339,409; May 11; v. 274; p. 216.
Cylinders, Steam-inlet and water-outlet of drying-. J. O. Lundberg. No. 1,331,994; Feb. 24; v. 271; p. 617.
Cylinders, Takedown for machine-drawn. H. J. Douchamp. No. 1,359,236; Nov. 16; v. 280; p. 501.
Cylindrical surfaces having an exact diameter, Producing interiorly-. G. Mattsson. No. 1,360,558; Nov. 30; v. 280; p. 876.
Cymene obtained in sulfite-cellulose process, Recovering. N. L. Akerblom. No. 1,338,694; Mar. 16; v. 272; p. 400.
Dairy-indicator, Household. R. L. Lloyd. No. 1,354,983; Oct. 5; v. 279; p. 106.
Dam, Artificial. J. W. Shaw. No. 1,330,957; Feb. 17; v. 271; p. 403.
Dam, Concrete. C. A. P. Turner. No. 1,351,588; Aug. 31; v. 277; p. 908.
Dams, Automatic gate-operating means for. J. D. Justin. No. 1,344,043; June 22; v. 275; p. 659.
Damper. W. V. Coate. No. 1,341,881; June 1; v. 275; p. 52.
Damper. W. M. Fulton. No. 1,331,100; Feb. 17; v. 271; p. 429.
Damper. J. A. Keyes. No. 1,349,068; Aug. 10; v. 277; p. 234.
Damper. J. Tandy. No. 1,361,782; Dec. 7; v. 281; p. 160.

Digitized by Google

Alphabetical list of inventions—Continued.

Damper control, Automatic. W. L. Mersfelder. No. 1,339,571; May 11; v. 274; p. 247.
Damper-gage. H. Goldberg. No. 1,348,939; Aug. 10; v. 277; p. 208.
Damper-operating device. E. H. White. No. 1,359,941; Nov. 23; v. 280; p. 687.
Damper-regulator. G. W. Bigelow. No. 1,340,106; May 11; v. 274; p. 349.
Damper-regulator. J. M. Wilson. No. 1,358,909; Nov. 16; v. 280; p. 440.
Dampers, Safety device for operating. F. M. Fitch. No. 1,355,135; Oct. 12; v. 279; p. 188.
Dandelion-rake. C. E. Roberts. No. 1,336,861; Apr. 13; v. 273; p. 279.
Dark, Method of and apparatus for detecting and observing objects in the. S. O. Hoffman. No. 1,343,393; June 15; v. 275; p. 465.
Darner. M. Ceska. No. 1,337,884; Apr. 20; v. 273; p. 548.
Darning-ball, Electric. L. Ritter. No. 1,349,979; Aug. 17; v. 277; p. 485.
Dash-pot. J. H. Doran. No. 1,352,359; Sept. 7; v. 278; p. 124.
Dash-pot. J. H. Doran. No. 1,355,217; Oct. 12; v. 279; p. 205.
Dauber. F. J. Howell. No. 1,361,861; Dec. 14; v. 281; p. 223.
Dauber, Blacking-. L. Marchione. No. 1,351,723; Aug. 31; v. 277; p. 934.
Davenette. E. F. Palmer and O. G. Hardin. No. 1,333,822; Mar. 16; v. 272; p. 424.
Davenport. O. H. Schram. No. 1,344,825; June 29; v. 275; p. 877.
Davenport. O. H. Schram. No. 1,344,928; June 29; v. 275; p. 896.
Davenport. F. B. Wersel, Jr. No. 1,342,785; June 8; v. 275; p. 288.
Davenport and bed, Combination. R. E. Dixon. No. 1,354,540; Oct. 5; v. 279; p. 19.
Davenport, Bed-. C. W. Meves and F. G. Herrmann. No. 1,349,620; Aug. 17; v. 277; p. 416.
Davenport, Bed-. C. W. Meves and F. G. Herrmann. No. 1,349,621; Aug. 17; v. 277; p. 416.
Davenport, Bed-. C. W. Meves and F. G. Herrmann. No. 1,349,622; Aug. 17; v. 277; p. 416.
Davenport, bed, and table, Combination. K. Jengiowski. No. 1,357,567; Nov. 2; v. 280; p. 69.
Davit. S. E. Aaron. No. 1,345,821; July 6; v. 276; p. 97.
Davit. F. J. Super. No. 1,336,894; Apr. 6; v. 273; p. 130.
Davit, Lifeboat-. J. J. Eglit. No. 1,336,075; Apr. 6; v. 273; p. 70.
Davit, Ship's. H. B. Hills. No. 1,332,337; Mar. 2; v. 272; p. 30.
Davit, Ship's. R. B. Steward. No. 1,332,366; Mar. 2; v. 272; p. 37.
Davits, Mechanism for turning ships'. A. Welin. No. 1,339,532; May 11; v. 274; p. 240.
Dead-center device. W. L. Harris. No. 1,341,849; June 1; v. 275; p. 47.
Dealcoholizing liquids. W. Koedding and W. J. Lemp. No. 1,351,521; Aug. 31; v. 277; p. 895.
Decalcomania. O. Palm, Jr. No. 1,331,667; Feb. 24; v. 271; p. 555.
Decalcomania and making same. M. S. Rosenfeld. No. 1,331,581; Feb. 24; v. 271; p. 539.
Decalcomania-transferring machine. M. S. Rosenfeld. No. 1,331,580; Feb. 24; v. 271; p. 539.
Decapitator. F. S. Rece. No. 1,349,916; Aug. 17; v. 277; p. 472.
Decapitator. F. S. Rece. No. 1,356,942; Oct. 26; v. 279; p. 629.
Decarbonizer. A. de Clairmont. No. 1,356,967; Oct. 26; v. 279; p. 634.
Deck-sash support. L. N. Henault. No. 1,328,874; Jan. 27; v. 270; p. 501.
Decking apparatus. A. Copony. No. 1,336,201; Apr. 6; v. 273; p. 94.
Decorating-kiln. M. Solon. No. 1,354,518; Oct. 5; v. 279; p. 14.
Deflector. C. Fowler. No. 1,338,824; May 4; v. 274; p. 32.
Deflocculating solid materials and agents therefor. E. G. Acheson. No. 1,345,305; June 29; v. 275; p. 969.
Deflocculating solid substances. E. G. Acheson. No. 1,345,306; June 29; v. 275; p. 969.
Degreasing apparatus. C. C. Krouse. No. 1,338,308; Apr. 27; v. 273; p. 697.
Dehairing apparatus. W. Tietz. No. 1,327,073; Jan. 6; v. 270; p. 37.
Dehairing-wheel, Flexible. J. W. Kohlhepp. No. 1,332,401; Mar. 2; v. 272; p. 44.
Dehydrating furnace and its coöperating apparatus, Fruit, vegetable, and other food. R. Rea and F. W. Waters. No. 1,328,396; Jan. 20; v. 270; p. 382.
Dehydrating plant. L. E. Post and D. A. Riedy. No. 1,349,908; Aug. 17; v. 277; p. 471.
Dehydrating plants, Conveying and bleaching apparatus for. R. Rea and F. W. Waters. No. 1,328,395; Jan. 20; v. 270; p. 382.
Dehydrating plants, Heat-regulating adjustable-shutter mechanism for food-. R. Rea and F. W. Waters. No. 1,328,398; Jan. 20; v. 270; p. 383.
Dehydration. A. W. Browne. No. 1,354,279; Sept. 28; v. 278; p. 645.
Dehydrator. W. M. Luther. No. 1,353,167; Sept. 21; v. 278; p. 378.
Delivering apparatus. M. Bono. No. 1,340,748; May 18; v. 274; p. 527.
Delivering articles through a partition, Apparatus for. J. W. Hughes. No. 1,362,798; Dec. 21; v. 281; p. 459.
Delivery-body. C. B. Parsons. No. 1,359,734; Nov. 23; v. 280; p. 646.
Delivery mechanism. A. F. Harris. No. 1,337,223; Apr. 20; v. 273; p. 422.
Delivery mechanism. C. E. Swick. No. 1,354,144; Sept. 28; v. 278; p. 618.
Delivery mechanism, Book-. M. Christensen. No. 1,362,849; Dec. 21; v. 281; p. 469.
Delivery mechanism for folded products. E. P. Sheldon. No. 1,336,445; Apr. 13; v. 273; p. 199.
Delivery system, Automatic. E. T. S. Cliffe. No. 1,351,413; Aug. 31; v. 277; p. 874.
Demand apparatus. C. I. Hall. No. 1,331,915; Feb. 24; v. 271; p. 602.
Demand-indicator. C. I. Hall. No. 1,331,059; Feb. 17; v. 271; p. 422.
Demonstrating device, Refractional. A. Angel. No. 1,341,773; June 1; v. 275; p. 32.
Demountable rim. J. T. Cadenhead. No. 1,363,952; Dec. 28; v. 281; p. 722.
Demountable rim. L. H. Krickel. No. 1,363,604; Dec. 28; v. 281; p. 655.
Demountable wheel. L. Baumgartl. No. 1,353,511; Sept. 21; v. 278; p. 446.
Demountable wheel. C. M. Kolbenstetter and C. W. Stauffiger. No. 1,357,997; Nov. 9; v. 280; p. 913.
Demountable-wheel. P. Lively and R. J. Steil. No. 1,361,076; Dec. 7; v. 281; p. 19.
Dense ware from bauxite, Manufacturing. A. F. Meyerhofer. No. 1,350,825; Aug. 24; v. 277; p. 696.
Dental abrasive or grinding disk. G. O. Burlew. No. 1,355,888; Oct. 19; v. 279; p. 376.
Dental and jewelry casting, Preparation for molds for. J. A. McManus. No. 1,362,809; Dec. 21; v. 281; p. 461.
Dental and surgical instrument gage. M. L. Rhein. No. 1,327,114; Jan. 6; v. 270; p. 44.
Dental appliance. E. Bard. No. 1,332,878; Mar. 9; v. 272; p. 186.
Dental appliance. D. W. Barrow. No. 1,338,415; Apr. 27; v. 273; p. 715.
Dental appliance. G. F. Du Buque. No. 1,349,188; Aug. 10; v. 277; p. 258.
Dental appliance. J. P. Leonard. No. 1,345,606; July 6; v. 276; p. 55.
Dental appliance. H. P. Rawson. No. 1,345,549; July 6; v. 276; p. 44.
Dental appliance. T. H. Veale. No. 1,346,998; July 20; v. 276; p. 451.
Dental appliance. J. L. Young. No. 1,355,790; Oct. 12; v. 279; p. 316.
Dental articulator. L. G. Coble. No. 1,362,602; Dec. 21; v. 281; p. 420.
Dental articulator. R. E. Hall. No. 1,338,918; May 4; v. 274; p. 49.
Dental articulator. I. Nakahara. No. 1,341,191; May 25; v. 274; p. 683.
Dental articulator. W. M. Stanbrough. No. 1,343,691; June 15; v. 275; p. 524.
Dental articulator. J. W. Taliaferro. No. 1,354,454; Sept. 28; v. 278; p. 680.
Dental attachment. C. N. Reese. No. 1,347,555; July 27; v. 276; p. 617.
Dental bridgework. D. S. Highkin. No. 1,345,595; July 6; v. 276; p. 53.
Dental casting-machine. F. C. Montuori. No. 1,352,080; Sept. 7; v. 278; p. 71.
Dental casting-machine. M. H. and J. C. Mortonson. No. 1,331,660; Feb. 24; v. 271; p. 554.
Dental-cement-injecting tube. H. L. Cruttenden. No. 1,341,736; June 1; v. 275; p. 24.
Dental clamp. G. E. Dailey. No. 1,358,300; Nov. 9; v. 280; p. 273.
Dental crown-making machine. I. Navarro M. No. 1,346,719; July 13; v. 276; p. 336.
Dental drill. I. J. Fink. No. 1,358,432; Nov. 9; v. 280; p. 301.
Dental educational device. R. O. Brittain. No. 1,342,156; June 1; v. 275; p. 107.
Dental engine. O. H. and A. F. Pieper. No. 1,340,908; May 25; v. 274; p. 628.
Dental-engine hand-piece. R. C. Craig. No. 1,362,680; Dec. 21; v. 281; p. 435.
Dental-engine handpieces, Moistening attachment for. I. A. Burnett. No. 1,345,579; July 6; v. 276; p. 50.
Dental-engine head. W. J. Laurer and J. O'Halloran. No. 1,333,809; Mar. 16; v. 272; p. 421.
Dental flask. F. H. Brown. No. 1,347,205; July 20; v. 276; p. 490.
Dental flask and charger. D. A. Akin. No. 1,353,942; Sept. 28; v. 278; p. 576.
Dental-floss holder. W. T. Elzinga. No. 1,332,170; Feb. 24; v. 271; p. 649.
Dental-floss-tape lip-protector. J. Hook. No. 1,329,837; Feb. 3; v. 271; p. 92.

Digitized by Google

Dental hand port-polisher. J. W. Ivory. No. 1,327,477; Jan. 6; v. 270; p. 111.
Dental handpiece. R. E. Graves. No. 1,349,832; Aug. 17; v. 277; p. 456.
Dental impressions and molds, Coloring and parting material for. W. H. Stanley. No. 1,349,013; Aug. 10; v. 277; p. 223.
Dental instrument. W. W. Bolls. No. 1,356,755; Oct. 26; v. 278; p. 592.
Dental instrument. F. B. Davis. No. 1,328,181; Jan. 13; v. 270; p. 296.
Dental instrument. E. W. Iden. No. 1,347,275; July 20; v. 276; p. 505.
Dental instrument. L. A. Lancit and B. U. Zarger. No. 1,349,464; Aug. 10; v. 277; p. 312.
Dental instrument. J. E. Reid and C. Kienle. No. 1,335,987; Apr. 6; v. 278; p. 54.
Dental-instrument-grinding device. H. Artmaier. No. 1,350,951; Aug. 24; v. 277; p. 719.
Dental mandril for holding stones and sandpaper disks. W. S. Wright. No. 1,352,896; Sept. 7; v. 278; p. 180.
Dental massage and polishing appliance. C. W. Fuller. No. 1,343,713; June 15; v. 275; p. 529.
Dental meter. J. Fisher. No. 1,361,376; Dec. 7; v. 281; p. 79.
Dental mirror and syringe. J. E. Craig. No. 1,352,789; Sept. 14; v. 278; p. 245.
Dental mold-cup. C. A. Palmer. No. 1,351,584; Aug. 31; v. 277; p. 908.
Dental ornament. A. C. S. Robinson. No. 1,349,102; Aug. 10; v. 277; p. 240.
Dental plate. A. C. S. Angel. No. 1,354,938; Oct. 5; v. 279; p. 98.
Dental-plate attachment. I. J. Dresch. No. 1,339,812; May 11; v. 274; p. 293.
Dental plate or denture. J. Williams. No. 1,339,640; May 11; v. 274; p. 261.
Dental plates, Suction mechanism for. J. Lehner. No. 1,352,614; Sept. 14; v. 278; p. 209.
Dental separating or grinding disk. G. O. Burlew. No. 1,350,002; Aug. 17; v. 277; p. 489.
Dental suction-plate. G. S. Whitaker. No. 1,343,950; June 22; v. 275; p. 640.
Dental suction-plates, Vacuum-cup-fastening means for. G. S. Whitaker. No. 1,343,949; June 22; v. 275; p. 640.
Dental toilet-case. G. T. Cornelius. No. 1,336,345; Apr. 6; v. 278; p. 121.
Dental tool. H. Callsen. No. 1,354,089; Sept. 28; v. 278; p. 607.
Dental tool. F. Gonzalez. No. 1,356,352; Oct. 19; v. 279; p. 468.
Dental tool. J. L. Kelly. No. 1,356,372; Oct. 19; v. 279; p. 471.
Dental treatments, Means for applying. J. H. Abbott. No. 1,335,413; Mar. 30; v. 272; p. 829.
Dental work, Removable bridge for. A. S. Stone. No. 1,340,089; May 11; v. 274; p. 345.
Dental work, Removable porcelain cap or cusp for. S. A. Sigel. No. 1,332,415; Mar. 2; v. 272; p. 46.
Dentifrice. M. L. Rhein. (Reissue.) No. 14,961; Oct. 19; v. 279; p. 497.
Dentist's record-holder. R. J. Fennelli. No. 1,361,703; Dec. 7; v. 281; p. 145.
Denture. C. Hinchy. No. 1,327,674; Jan. 13; v. 270; p. 210.
Denture-backings, Making metallic. R. M. Craig. No. 1,353,565; Sept. 21; v. 278; p. 457.
Dentures, Composition for cleansing artificial. A. S. Wolfe. No. 1,345,819; July 6; v. 276; p. 96.
Deodorizing material. R. C. Roark. No. 1,346,337; July 13; v. 276; p. 262.
Deposit and collection receptacle. M. S. Sholl. No. 1,350,742; Aug. 24; v. 277; p. 680.
Deposit-slip. N. E. Goldberg. No. 1,339,331; May 4; v. 274; p. 125.
Depositing-machine. C. W. Bunde. No. 1,327,806; Jan. 13; v. 270; p. 285.
Depositing-machine. F. G. Salerno. No. 1,342,598; June 8; v. 275; p. 246.
Depth charges, mines, &c., on boats or ships, Means for holding and releasing. J. Hampton. No. 1,353,652; Sept. 21; v. 278; p. 476.
Depth, draft, and displacement indicator. W. Alexander. No. 1,359,014; Nov. 16; v. 280; p. 460.
Depth-gage. T. M. Gunn. No. 1,338,981; May 4; v. 274; p. 61.
Depth-indicating device. E. E. Huffman and O. W. Cowgill. No. 1,332,341; Mar. 2; v. 272; p. 31.
Depth or liquid-level gage. I. Andersson. No. 1,361,576; Dec. 7; v. 281; p. 121.
Derailer. J. M. Estes. No. 1,346,009; July 6; v. 276; p. 135.
Derailment-brake. J. T. Smith. No. 1,353,794; Sept. 21; v. 278; p. 503.
Derrick. F. Babek. No. 1,359,548; Nov. 23; v. 280; p. 688.
Derrick. L. Henderson. No. 1,354,745; Oct 5; v. 279; p. 59.
Derrick-base. W. H. Insley and A. C. Rasmussen. No. 1,348,008; July 27; v. 276; p. 707.
Derrick, Farm-. R. A. Smith. No. 1,352,085; Sept. 7; v. 278; p. 62.
Derrick for vehicles. S. Zied. No. 1,345,304; June 29; v. 275; p. 968.
Derrick, Portable general-utility. J. M. Hill. No. 1,345,008; June 29; v. 275; p. 910.
Desiccating apparatus. A. D. Robinson. No. 1,330,746; Feb. 10; v. 271; p. 293.
Desiccating apparatus. A. D. Robinson. No. 1,330,747; Feb. 10; v. 271; p. 293.
Desiccation. A. W. Lissauer. No. 1,339,115; May 4; v. 274; p. 87.
Desk. A. S. Falls. No. 1,334,949; Mar. 30; v. 272; p. 742.
Desk. J. M. Gloppe. No. 1,347,025; July 20; v. 276; p. 456.
Desk. W. B. Winter. No. 1,334,426; Mar. 23; v. 272; p. 584.
Desk, Adjustable school-. D. Owen. No. 1,350,669; Aug. 24; v. 277; p. 666.
Desk and chair. J. M. Reed. No. 1,334,167; Mar. 16; v. 272; p. 489.
Desk and chair, Combination. R. L. Leatherman and F. Pfrogner. No. 1,328,169; Jan. 13; v. 270; p. 308.
Desk and seat-frame, Combined. T. E. McNulty. No. 1,355,681; Oct. 12; v. 279; p. 295.
Desk and seat, School. T. Quinlan. No. 1,345,105; June 29; v. 275; p. 929.
Desk appliance, Office-. S. Kielar. No. 1,333,851; Mar. 16; v. 272; p. 429.
Desk blotter-pad and file, Combined. E. E. McMullen. No. 1,331,995; Feb. 24; v. 271; p. 618.
Desk construction and arrangement. J. J. Donovan. No. 1,357,547; Nov. 2; v. 280; p. 65.
Desk, Drawer-. H. C. Lietz. No. 1,358,004; Nov. 9; v. 280; p. 215.
Desk-fixture. W. S. Clark. No. 1,332,458; Mar. 2; v. 272; p. 54.
Desk, Flat-top. C. M. Olsen. No. 1,358,980; Nov. 16; v. 280; p. 454.
Desk, Office-. P. F. Purcell. No. 1,330,348; Feb. 10; v. 271; p. 218.
Desk-pad. M. D. Johnson. No. 1,362,487; Dec. 14; v. 281; p. 346.
Desk-pad and calendar-holder. F. J. Kristofek. No. 1,347,225; July 20; v. 276; p. 494.
Desk pads or blotters, Marginal protector and guard for. A. S. Fisher. No. 1,357,971; Nov. 9; v. 280; p. 208.
Desk, Safety-. M. H. Lyttle. No. 1,358,961; Nov. 16; v. 280; p. 450.
Desk, School-. A. J. James. No. 1,361,524; Dec. 7; v. 281; p. 110.
Desk, School-. L. H. McKee. No. 1,355,404; Oct. 12; v. 279; p. 241.
Desk, School-. A. Martin. No. 1,328,444; Jan. 20; v. 270; p. 391.
Desk, School-. G. L. Rankin. No. 1,346,976; July 20; v. 276; p. 447.
Desk, School-. T. C. Warner. No. 1,361,422; Dec. 7; v. 281; p. 89.
Desk, Typewriter-. W. F. Olson. No. 1,355,772; Oct. 12; v. 279; p. 312.
Desks and chairs, Pedestal for combined. C. Fohman. No. 1,333,301; Mar. 9; v. 272; p. 265.
Despatch systems, Governing mechanism for. J. G. Maclaren. No. 1,354,116; Sept. 28; v. 278; p. 612.
Despatch-tube apparatus, Pneumatic-. J. G. Maclaren. No. 1,346,042; July 6; v. 276; p. 141.
Despatch-tube system, Pneumatic-. C. P. Hidden. No. 1,332,895; Mar. 9; v. 272; p. 189.
Despatch-tube systems, Terminal for pneumatic-. A. Watson. No. 1,347,136; July 20; v. 276; p. 477.
Detachable-body lock. W. N. Baer. No. 1,344,572; June 22; v. 275; p. 762.
Detachable handle. F. E. Carlson. No. 1,350,641; Aug. 24; v. 277; p. 660.
Detachable wheel. H. A. House, Jr. No. 1,363,598; Dec. 28; v. 281; p. 654.
Detachable wheel. W. L. Regnier. No. 1,337,271; Apr. 20; v. 273; p. 432.
Detection-signal. S. P. and E. E. Marsh. No. 1,329,053; Jan. 27; v. 270; p. 535.
Detector: *See*—
Ignition-detector. Sheet-detector.
Detinning. C. F. Carrier, Jr. No. 1,358,136; Nov. 9; v. 280; p. 241.
Detinning. W. C. Zacharias. No. 1,362,381; Dec. 14; v. 281; p. 326.
Detonating device. W. P. Woerner. No. 1,334,826; Mar. 23; v. 272; p. 659.
Detonators, Composition for. R. M. Cook and B. Grotta. No. 1,361,020; Dec. 7; v. 281; p. 8.
Developing-rack. F. W. Barnes. No. 1,339,088; May 4; v. 274; p. 82.
Dextrin and other modified starch products, Manufacture of. H. C. Gore. No. 1,335,162; Mar. 30; v. 272; p. 783.
Diacetate, Manufacture of ethylidene. M. Beudet. No. 1,351,990; Sept. 7; v. 278; p. 55.
Diagnostic instrument. A. S. Harris. No. 1,346,200; July 13; v. 276; p. 233.
Dial. J. Macé. No. 1,337,243; Apr. 20; v. 273; p. 428.
Dial and dial fastener. W. T. Maloney. No. 1,338,745; May 4; v. 274; p. 18.

Digitized by Google

Alphabetical list of inventions—Continued.

Dial for pressure-gages and like dial instruments, Adjustable. G. Brewer. No. 1,328,941; Jan. 27; v. 270; p. 515.
Dial-sash. C. H. Hyde. No. 1,351,853; Sept. 7; v. 278; p. 28.
Diamond-holder. R. W. Uhlig. No. 1,329,865; Feb. 3; v. 271; p. 98.
Diamonds, &c., and making same, Hardened material for use in the arts as substitutes for. A. J. Liebmann and C. A. Laise. No. 1,343,976: June 22; v. 275; p. 645.
Diamonds, &c., and making same, Hardened material for use in the arts as substitutes for. A. J. Liebmann and C. A. Laise. No. 1,343,977; June 22; v. 275; p. 645.
Diamonds, Art of polishing. C. J. Coleman. No. 1,329,372; Feb. 3; v. 271; p. 6.
Diamonds, Art of polishing. C. J. Coleman. No. 1,329,373; Feb. 3; v. 271; p. 6.
Diamonds during abrasive treatment, Means for holding. C. J. Coleman. No. 1,329,370; Feb. 3; v. 271; p. 6.
Diamonds during polishing, Cement for holding. C. J. Coleman. No. 1,329,374; Feb. 3; v. 271; p. 6.
Diamonds during the polishing operation, Means for holding. C. J. Coleman. No. 1,329,371; Feb. 3; v. 271; p. 6.
Diaper. L. R. McNair. No. 1,329,619; Feb. 3; v. 271; p. 51.
Diaper, Child's waterproof. E. D. Marsh. No. 1,339,602; May 11; v. 274; p. 253.
Diaper-supporter. M. J. Beitter. No. 1,334,514; Mar. 23; v. 272; p. 600.
Diaphragm. P. E. Bütow. No. 1,334,435; Mar. 23; v. 272; p. 586.
Diaphragm and making same. W. Frick. No. 1,355,552; Oct. 12; v. 279; p. 270.
Diaphragm blast-meter. E. H. Schulz. No. 1,344,722; June 29; v. 275; p. 856.
Diaphragm-compressor. H. Corblin. No. 1,332,806; Mar. 2; v. 272; p. 120.
Diaphragm controller, Vibratory-. M. I. Williamson. No. 1,340,471; May 18; v. 274; p. 475.
Diaphragm for electrochemical and electro-osmotic purposes. B. Schwerin. No. 1,352,763; Sept. 14. v. 278; p. 240.
Diaphragm for regulators. W. Hodgson. No. 1,361,727; Dec. 7; v. 281; p. 150.
Diaphragm-gage. F. H. Hopkins. No. 1,349,884; Aug. 17; v. 277; p. 467.
Diaphragm-sounder. H. S. A. Rydberg. No. 1,335,921; Apr. 6; v. 273; p. 41.
Diazotizable dyestuffs easily soluble in water. H. Fritzsche. No. 1,362,936; Dec. 21; v. 281; p. 485.
Dictionary. S. Mayer. No. 1,328,178; Jan. 13; v. 270; p. 304.
Dictionary-key. C. Savitsky. No. 1,353,615; Sept. 21; v. 278; p. 468.
Die: *See*—

Adjustable die.	Pipe-cutting die.
Cruller-forming die.	Power-hammer die.
Cutting-die.	Self-opening die.
Forging-die.	Universal die.

Die. C. P. Harrison. No. 1,331,498; Feb. 24; v. 271; p. 528.
Die. E. F. Kandlbinder. No. 1,344,637; June 29; v. 275; p. 840.
Die. B. D. Lockwood. No. 1,351,048; Aug. 31; v. 277; p. 801.
Die. T. Lund. No. 1,340,235; May 18; v 274; p. 430.
Die. F. E. Mueller. No. 1,335,907; Apr. 6; v. 273; p. 38.
Die. F. E. Mueller. No. 1,335,908; Apr. 6; v. 273; p. 39.
Die. E. J. O'Leary. No. 1,362,573; Dec. 14; v. 281; p. 363.
Die. W. G. Trohon. No. 1,328,347; Jan. 20; v. 270; p. 373.
Die. C. W. Youngberg. No. 1,336,388; Apr. 6; v. 273; p. 129.
Die and die-carrier. G. S. Thompson. No. 1,359,934; Nov. 23; v. 280; p. 685.
Die and joining its ends. A. R. Braden. No. 1,327,652; Jan. 13; v. 270; p. 205.
Die and spiral. J. W. Thomas. No. 1,338,799; May 4; v. 274; p. 28.
Die-casting. C. M. Grey. No. 1,333,754; Mar. 16; v. 272; p. 411.
Die-casting apparatus. C. Edlund. No. 1,349,122; Aug. 10; v. 277; p. 244.
Die-casting machine. A. Hakanson. No. 1,338,622; Apr. 27; v. 273; p. 756.
Die-casting machine. R. T. McGee. No. 1,360,771; Nov. 30; v. 280; p. 918.
Die-casting machine. A. H. Wiedhofft. No. 1,332,940; Mar. 9; v. 272; p. 197.
Die-cushion. D. Strand. No. 1,354,785; Oct. 5; v. 279; p. 68.
Die-emptying device. L. B. Fraser. No. 1,362,411; Dec. 14; v. 281; p. 331.
Die forming and trimming apparatus. H. J. Smith and E. P. Everett. No. 1,337,796; Apr. 20; v. 273; p. 531.
Die-head. W. H. Gates. No. 1,358,074; Nov. 9; v. 280; p. 229.
Die-head. W. C. Marks. No. 1,352,823; Sept. 14; v. 278; p. 252.
Die-head, Automatic. J. E. Baines and J. W. Latshaw. No. 1,331,227; Feb. 17; v. 271; p. 452.
Die-holder. J. Grauer. No. 1,328,279; Jan. 20; v. 270; p. 360.
Die-holder. R. T. McGee. No. 1,339,363; May 4; v. 274; p. 132.
Die-maker's gage. O. L. Scalbom. No. 1,333,223; Mar. 9; v. 272; p. 250.
Dies, Making. T. D. Lucier. No. 1,357,503; Nov. 2; v. 280; p. 57.
Die or implement used in the manufacture of spark-plugs. E. Aschenbach. No. 1,341,453; May 25; v. 274; p. 784.
Die-press. N. E. Funk. No. 1,333,168; Mar. 9; v. 272; p. 240.
Die-press, Automatic. W. Cameron. No. 1,337,307; Apr. 20; v. 273; p. 489.
Die-shifter. S. Menkin. No. 1,349,974; Aug. 17; v. 277; p. 484.
Die sinking, engraving, reproducing machine. J. F. Keller. No. 1,351,211; Aug. 31; v. 277; p. 833.
Die-sinking machine. L. G. Bayrer. No. 1,354,942; Oct. 5; v. 279; p. 98.
Dies and a hub or sinker therefor, Manufacturing. J. Glebel and F. H. Zimmerman. (Reissue.) No. 14,835; Apr. 6; v. 273; p. 133.
Dies and tools, Method of and means for extending the usable condition of metallic. H. R. Rosenbaum. No. 1,340,913; May 25; v. 274; p. 629.
Dies, Forging. C. F. Sultemeyer. No. 1,355,434; Oct. 12; v. 279; p. 247.
Dies, Head for truing. W. H. Ayres. No. 1,332,481; Mar. 2; v. 272; p. 59.
Dies, Process and apparatus for hardening heading-. R. L. Gilman. No. 1,334,606; Mar. 23; v. 272; p. 617.
Diestock. K. G. Anderson. No. 1,331,973; Feb. 24; v. 271; p. 613.
Diestock. W. Link. No. 1,354,316; Sept. 28; v. 278; p. 652.
Diestock. I. W. Nonneman. No. 1,338,863; May 4; v. 274; p. 39.
Diestock. I. W. Nonneman. No. 1,338,864; May 4; v. 274; p. 39.
Diestock. I. W. Nonneman. No. 1,338,865; May 4; v 274; p. 40.
Diestock. I. W. Nonneman. No. 1,339,473; May 11; v. 274; p. 229.
Diestock. I. W. Nonneman. No. 1,340,972; May 25; v. 274; p. 641.
Diestock. H. W. Oster and R. B. Tewksbury. No. 1,361,409; Dec. 7; v. 281; p. 84.
Diestock attachment. B. E. Eichendorff. No. 1,552,253; Sept. 7; v. 278; p. 104.
Diestock, Multiple. D. B. Igou. No. 1,340,227; May 18; v. 274; p. 429.
Diestocks, Self-oiling handle for. R. V. Newsham. No. 1,336,575; Apr. 13; v. 273; p. 224.
Diesel motor. H. H. Blache. No. 1,330,676; Feb. 10; v. 271; p. 280.
Differential. I. Jayne. No. 1,361,731; Dec. 7; v. 281; p. 151.
Differential. L. Watkins. No. 1,328,217; Jan. 13; v. 270; p. 312.
Differential. G. W. Wilkin. No. 1,344,107; June 22; v. 275; p. 670.
Differential and driving mechanism. P. G. Beremand. No. 1,342,938; June 8; v. 275; p. 313.
Differential escapement. E. H. Piersen. No. 1,359,465; Nov. 16; v. 280; p. 465.
Differential gage. J. B. Wilkinson. No. 1,340,198; May 18; v. 274; p. 423.
Differential mechanism. F. V. Ebertz. No. 1,352,590; Sept. 14; v. 278; p. 205.
Differential mechanism. F. M. Lewis. No. 1,328,440; Jan. 20; v. 270; p. 390.
Diffuser. F. G. White. No. 1,357,585; Nov. 2; v. 280; p. 63.
Diffusing-screen. M. Mayer and T. Yeo. No. 1,361,344; Dec. 7; v. 281; p. 78.
Digger: *See*—

Clam-digger.	Quack-grass digger.
Ditch-digger.	Tile-trench digger.
Posthole-digger.	Vegetable-digger.
Potato-digger.	

Digger. W. Lambert. No. 1,360,120; Nov. 23; v. 280; p. 722.
Digger. P. M. Padgette. No. 1,362,035; Dec. 14; v. 281; p. 258.
Digging implement attachment. R. Risch. No. 1,353,494; Sept. 21; v. 278; p. 443.
Digging-implement guard. G. W. Kirkpatrick. No. 1,336,630; Apr. 13; v. 273; p. 235.
Digging-machine. J. M. Kincade. No. 1,341,138; May 25; v. 274; p. 673.
Digging machine, Ditch-. F. F. Lyons. No. 1,343,734; June 15; v. 275; p. 533.
Dilator. C. O. Burgess. No. 1,333,961; Mar. 16; v. 272; p. 450.
Dilator. F. B. Graham. No. 1,328,624; Jan. 20; v. 270; p. 425.
Dilator. E. Ylisto. No. 1,331,737; Feb. 24; v. 271; p. 568.

Digitized by Google

Dining-room set, Folding. H. A. St. John and G. H. Sauer. No. 1,339,232; May 4; v. 274; p. 108.
Dioxid, Apparatus for producing sulfur. H. K. Lyon. No. 1,337,561; Apr. 20; v. 273; p. 486.
Dioxid, Making conducting hydrated black manganese. C. E. Ellis and A. A. Wells. No. 1,330,738; Feb. 10; v. 271; p. 292.
Dipper, Excavating-. M. E. Pugh. No. 1,342,759; June 8; v. 275; p. 277.
Dipper-tooth. F. Ekman. No. 1,333,394; Mar. 9; v. 272; p. 282.
Dippers, Tooth for shovel-. C. H. Mulroney. No. 1,363,189; Dec. 21; v. 281; p. 534.
Dipping-machine. L. P. Tenca. No. 1,332,934; Mar. 9; v. 272; p. 196.
Dipping machinery, Work-support for. A. F. Williams. No. 1,354,930; Oct. 5; v. 279; p. 96.
Direct-current machine. A. Scherbius. No. 1,352,920; Sept. 14; v. 278; p. 271.
Direction-indicating device. T. B. Wright. No. 1,342,788; June 8; v. 275; p. 283.
Direction-indicator. D. Alexander. No. 1,333,365; Mar. 9; v. 272; p. 277.
Direction-indicator. L. A. Bean. No. 1,340,363; May 18; v. 274; p. 454.
Direction-indicator. J. P. Becker. No. 1,341,352; May 25; v. 274; p. 714.
Direction-indicator. N. C. Briggs. No. 1,329,751; Feb. 3; v. 271; p. 76.
Direction-indicator. V. I. and I. J. Cilley. No. 1,357,274; Nov. 2; v. 280; p. 14.
Direction-indicator. A. E. Collins. No. 1,362,283; Dec. 14; v. 281; p. 307.
Direction-indicator. W. H. Duncomb. No. 1,349,191; Aug. 10; v. 277; p. 258.
Direction-indicator. E. T. Friend. No. 1,361,242; Dec. 7; v. 281; p. 52.
Direction-indicator. E. W. Gmelin. No. 1,333,973; Mar. 16; v. 272; p. 452.
Direction-indicator. F. F. Hoffmann. No. 1,327,605; Jan. 6; v. 270; p. 135.
Direction-indicator. J. T. Lindstrom and H. R. Delley. No. 1,351,774; Sept. 7; v. 278; p. 11.
Direction-indicator. J. E. Mayhall. No. 1,351,671; Aug. 31; v. 277; p. 925.
Direction-indicator. S. Nakasora. No. 1,353,128; Sept. 14; v. 278; p. 311.
Direction-indicator. J. W. Patterson. No. 1,353,783; Sept. 21; v. 278; p. 501.
Direction-indicator. R. B. Pollock. No. 1,340,343; May 18; v. 274; p. 451.
Direction-indicator. J. H. Rabbitt. No. 1,340,081; May 11; v. 274; p. 343.
Direction-indicator. J. A. Reischmann, Jr. No. 1,331,674; Feb. 24; v. 271; p. 556.
Direction-indicator. G. W. Ruhl. No. 1,340,082; May 11; v. 274; p. 344.
Direction-indicator. R. P. Safely. No. 1,353,788; Sept. 21; v. 278; p. 502.
Direction-indicator. C. F. Shong. No. 1,340,988; May 25; v. 274; p. 644.
Direction-indicator. A. Tanaka. No. 1,361,415; Dec. 7; v. 281; p. 87.
Direction-indicator. B. V. Vosburgh. No. 1,363,936; Dec. 28; v. 281; p. 719.
Direction-indicator, Automobile. J. B. Blair. No. 1,333,534; Mar. 9; v. 272; p. 309.
Direction-indicator, Bicycle. E. P. Johnson. No. 1,347,334; July 20; v. 276; p. 517.
Direction-indicator panel. E. O., V. I., and I. J. Cilley. No. 1,357,273; Nov. 2; v. 280; p. 14.
Direction-indicator, Vehicle. G. E. Bates. No. 1,343,994; June 22; v. 275; p. 649.
Direction-indicator, Vehicle. F. F. Brendle. No. 1,343,761; June 15; v. 275; p. 538.
Direction-indicator, Vehicle. W. F. Rotermund. No. 1,344,654; June 29; v. 275; p. 844.
Direction-preindicator. E. H. Hebern. No. 1,346,453; July 13; v. 276; p. 284.
Direction-signal. S. E. Allen. No. 1,357,433; Nov. 2; v. 280; p. 44.
Direction-signal. M. Drane. No. 1,327,027; Jan. 6; v. 270; p. 28.
Direction-signal. D. I. Griffiths. No. 1,348,716; Aug. 3; v. 277; p. 113.
Direction-signal. S. B. Hyatt. No. 1,332,497; Mar. 2; v. 272; p. 62.
Direction-signal. J. Sztary and L. Kovács. No. 1,347,420; July 20; v. 276; p. 534.
Direction-signal. G. B. Williams. No. 1,330,668; Feb. 10; v. 271; p. 278.
Direction-signal, Vehicle. W. H. Case. No. 1,344,618; June 29; v. 275; p. 837.
Direotory. W. J. Toland. No. 1,346,995; July 20; v. 276; p. 450.
Directory, Card-index. L. Bachrach. No. 1,351,730; Sept. 7; v. 278; p. 3.
Directory-machine. W. C. Cutler. No. 1,352,416; Sept. 7; v. 278; p. 134.
Directory-machine. W. C. Cutler. No. 1,353,458; Sept. 21; v. 278; p. 435.
Dirigible control. W. Gigliatti. No. 1,360,922; Nov. 30; v. 280; p. 947.
Dirigible light. H. G. Bley. No. 1,349,658; Aug. 17; v. 277; p. 423.
Dirigible light. L. I. and M. Z. Ryder. No. 1,352,993; Sept. 14; v. 278; p. 286.
Dirigible light. W. M. Schafer. No. 1,341,593; May 25; v. 274; p. 761.
Dirigible, Sea-. D. Corson, Jr. No. 1,350,211; Aug. 17; v. 277; p. 530.
Dirigibles, Apparatus for mooring. E. S. Ullmann. No. 1,349,593; Aug. 17; v. 277; p. 410.
Disazo dye. T. H. Leaming and T. M. Susemihl. No. 1,363,886; Dec. 28; v. 281; p. 710.
Disazodyestuffs able to be chromated. E. Reber. No. 1,338,397; Apr. 27; v. 273; p. 714.
Disazodyestuffs dyeing mordanted fibers. C. Jagerspacher and M. Isler. No. 1,338,506; Apr. 27; v. 273; p. 735.
Discharge-arm, Pivoted. B. R. Benjamin and C. A. Hagadone. No. 1,327,305; Jan. 6; v. 270; p. 79.
Discharging mechanism. A. J. Bates. No. 1,328,809; Jan. 27; v. 270; p. 488.
Dish. P. R. Simmons. No. 1,356,409; Oct. 19; v. 279; p. 478.
Dish-drier. B. Feingold. No. 1,348,792; Aug. 3; v. 277; p. 127.
Dish drier and holder. R. Lombard. No. 1,351,577; Aug. 31; v. 277; p. 986.
Dish, Laboratory-. J. J. Mojonnier. No. 1,336,043; Apr. 6; v. 273; p. 64.
Dish-washer. J. Linton. No. 1,354,049; Sept. 28; v. 278; p. 598.
Dish-washer. E. N. Paris. No. 1,345,226; June 29; v. 275; p. 952.
Dish-washer. G. W. Staples. No. 1,332,080; Feb. 24; v. 271; p. 633.
Dish-washer and canning device, Combination. L. Courson. No. 1,333,469; Mar. 9; v. 272; p. 297.
Dish-washer, Sanitary. H. W. Higley. No. 1,362,533; Dec. 14; v. 281; p. 355.
Dish-washing device. G. C. Frants. No. 1,358,192; Nov. 9; v. 280; p. 252.
Dishes, Drainer for. W. S. Hasskarl. No. 1,363,590; Dec. 28; v. 281; p. 652.
Dishes, Service-holder for carrying. H. Zola. No. 1,330,568; Feb. 10; v. 271; p. 260.
Dishcloth-holder. J. H. Soehren. No. 1,338,107; Apr. 27; v. 273; p. 660.
Dishpan and rinser, Combined. E. A. Hensal. No. 1,356,362; Oct. 19; v. 279; p. 470.
Dishpan-support. O. D. Burdick. No. 1,338,486; Apr. 27; v. 273; p. 731.
Disinfectant and odorizer. F. Lobl. No. 1,340,661; May 18; v. 274; p. 511.
Disinfectant, antiseptic, deodorant, or detergent. C. Billing. No. 1,336,272; Apr. 6; v. 273; p. 107.
Disinfectants, Attachment for holding. J. W. Runser. No. 1,359,535; Nov. 23; v. 280; p. 606.
Disinfecting apparatus. H. A. Clifford. No. 1,354,244; Sept. 28; v. 278; p. 638.
Disinfecting means or attachments for the flushing arrangements of water-closets, urinals, sinks, &c. J. A. Lewis and P. Bartlett. No. 1,355,155; Oct. 12; v. 279; p. 192.
Disinfecting or air-purifying apparatus. J. G. Goodhue. No. 1,332,623; Mar. 2; v. 272; p. 86.
Disinfecting or deodorizing device. E. R. Williams. No. 1,349,703; Aug. 17; v. 277; p. 432.
Disintegrating-machine. H. Allen. No. 1,340,201; May 18; v. 274; p. 424.
Disk brake, Multiple-. E. Schneider. No. 1,351,006; Aug. 24; v. 277; p. 730.
Disk-cutting apparatus, Multiple-. J. A. Gray. No. 1,351,951; Sept. 7; v. 278; p. 48.
Disk, Flexible-coupling. C. L. Du Bois. No. 1,350,011; Aug. 17; v. 277; p. 491.
Disk for flexible coupligns and making same. R. J. Stokes. No. 1,346,612; July 13; v. 276; p. 315.
Disk-grinding machine. W. A. Lorenz. No. 1,353,967; Sept. 28; v. 278; p. 581.
Disk-grinding machines, Suction-head for. W. A. Lorenz. No. 1,353,966; Sept. 28; v. 278; p. 581.
Disk-holder. R. Colley. No. 1,346,004; July 6; v. 276; p. 134.
Disk-record holder. G. E. Foss and H. G. Jensen. No. 1,349,272; Aug. 10; v. 277; p. 275.
Disk-record holder. F. Grammich. No. 1,336,293; Apr. 6; v. 273; p. 111.
Disk-record holder. F. Grammich. No. 1,339,194; May 4; v. 274; p. 101.
Disk, Rasping-. C. L. Smith and E. S. Webster. No. 1,347,298; July 20; v. 276; p. 510.
Disk-sorting machine. T. Allatt. No. 1,337,031; Apr. 13; v. 273; p. 312.
Disk, Vibratory. P. Lachman and G. Thomas. No. 1,336,036; Apr. 6; v. 273; p. 68.
Disk wheel. R. C. Hoffman. No. 1,353,161; Sept. 21; v. 278; p. 377.
Disk wheel. M. Lachman. No. 1,355,233; Oct. 12; v. 279; p. 208.
Disk wheel, Abrasive-. S. M. Bullock and H. S. Lloyd. No. 1,351,021; Aug. 31; v. 277; p. 796.
Disk wheels, Automobile-lock for. A. W. Saegesser. No. 1,348,960; Aug. 10; v. 277; p. 212.
Dismountable house. A. Roure. No. 1,352,991; Sept. 14; v. 278; p. 285.

Digitized by Google

Alphabetical list of inventions—Continued.

Dispenser. S. Gagnon. No. 1,341,711; June 1; v. 275; p. 19.
Dispenser. H. J. Mogensen. No. 1,355,562; Oct. 12; v. 279; p. 272.
Dispenser, Change-. W. H. Cloud. No. 1,360,367; Nov. 30; v. 280; p. 838.
Dispensing apparatus. C. A. Costigan. No. 1,348,269; Aug. 3; v. 277; p. 28.
Dispensing apparatus. L. W. Luellen. No. 1,336,469; Apr. 13; v. 273; p. 204.
Dispensing apparatus. H. M., G. B., and A. D. Nicholson. No. 1,348,890; Aug. 10; v. 277; p. 199.
Dispensing apparatus. F. E. Payne. No. 1,350,112; Aug. 17; v. 277; p. 510.
Dispensing apparatus. T. Tripolitis. No. 1,339,635; May 11; v. 274; p. 260.
Dispensing apparatus, Automatic. H. M. Nicholson. No. 1,327,111; Jan. 6; v. 270; p. 44.
Dispensing apparatus. Recorder and register for. L. S. Baluta. No. 1,358,921; Nov. 16; v. 280; p. 443.
Dispensing apparatus, Vacuum. H. M., A. D., and G. B. Nicholson and W. T. Lowery. No. 1,327,112; Jan. 6; v. 270; p. 44.
Dispensing-can. C. J. Salviolo. No. 1,330,351; Feb. 10; v. 271; p. 219.
Dispensing device. J. H. Boye. No. 1,352,425. Sept. 14; v. 278; p. 172.
Dispensing device. W. M. Fulton. No. 1,332,392; Mar. 2; v. 272; p. 42.
Dispensing device. E. S. Grim. No. 1,350,211; Nov. 23; v. 280; p. 740.
Dispensing device. W. P. Hammond and L. W. Luellen. No. 1,337,838; Apr. 20; v. 273; p. 539.
Dispensing device. A. Lees. No. 1,355,482; Oct. 12; v. 279; p. 257.
Dispensing device. D. W. Roth. No. 1,355,697; Oct. 12; v. 279; p. 298.
Dispensing device. A. S. Watt. No. 1,335,716; Mar. 30; v. 272; p. 887.
Dispensing device, Automatic material-. D. D. Corning. No. 1,345,350; July 6; v. 276; p. 5.
Dispensing device, Toothpick-. C. H. Bennett. No. 1,345,984; July 6; v. 276; p. 130.
Dispensing devices, Operating mechanism for. L. A. Wolters. No. 1,334,728; Mar. 23; v. 272; p. 640.
Dispensing-machine. E. E. Bushell and M. E. Conkling. No. 1,340,822; May 18; v. 274; p. p. 541.
Dispensing-machine. O. Jaeger. No. 1,327,712; Jan. 13; v. 270; p. 217.
Dispensing-machine. R. H. Little. No. 1,345,865; July 6; v. 276; p. 105.
Dispensing-machine. W. W. Stewart. No. 1,347,416; July 20; v. 276; p. 533.
Dispensing machine; Automatic gasolene-. F. C. Dennis. No. 1,347,147; July 20; v. 276; p. 479.
Dispensing-machine, Coin-controlled. J. Frick. No. 1,356,350; Oct. 19; v. 279; p. 467.
Dispensing or measuring device. L. Rosenfeld. No. 1,332,998; Mar. 9; v. 272; p. 209.
Dispensing-receptacle. C. W. Buckley. No. 1,355,210; Oct. 12; v. 279; p. 204.
Dispensing-receptacle. H. B. Hyams. No. 1,329,184; Jan. 27; v. 270; p. 560.
Dispensing-receptacle. T. G. Stough. No. 1,332,476; Mar. 2; v. 272; p. 58.
Dispensing system. R. L. Greene. No. 1,359,696; Nov. 23; v. 280; p. 638.
Display and dispensing package. P. Reeves. No. 1,348,318; Aug. 3; v. 277; p. 37.
Display and vending device. C. N. Ogden. No. 1,327,771; Jan. 13; v. 270; p. 228.
Display apparatus. J. B. Beans. No. 1,359,659; Nov. 23; v. 280; p. 630.
Display apparatus. J. E. Talley and J. W. Thompson. No. 1,332,081; Feb. 24; v. 271; p. 633.
Display apparatus. J. E. Talley and J. W. Thompson. No. 1,334,817; Mar. 23; v. 272; p. 657.
Display apparatus. H. Tas. No. 1,330,991; Feb. 17; v. 271; p. 409.
Display apparatus, Exhibiting or sign-. W. B. Dovel. No. 1,353,734; Sept. 21; v. 278; p. 491.
Display apparatus, Illuminated. O. Sperling. No. 1,341,201; May 25; v. 274; p. 686.
Display-box. F. X. List. No. 1,361,882; Dec. 14; v. 281; p. 227.
Display-box. G. M. Porter and C. Yardusky. No. 1,334,259; Mar. 16; v. 272; p. 505.
Display-box. M. M. Shapiro. No. 1,345,711; July 6; v. 276; p. 75.
Display-box. S. C. Yeomans. No. 1,363,298; Dec. 28; v. 281; p. 596.
Display-box, Foldable. C. Bashwiner. No. 1,333,893; Mar. 16; v. 272; p. 437.
Display-box, Folding. J. B. Singer and A. B. Levy. No. 1,361,631; Dec. 7; v. 281; p. 131.
Display box or carton. F. M. Perez. No. 1,338,394; Apr. 27; v. 273; p. 714.
Display boxes or cartons, Spacer for. S. H. Sorin. No. 1,350,744; Aug. 24; v. 277; p. 681.
Display-card. O. C. Nielsen. No. 1,359,617; Nov. 23; v. 280; p. 622.
Display-carton. O. C. Thum. No. 1,358,659; Nov. 9; v. 280; p. 346.
Display-carton. R. Van Iderstine. No. 1,340,744; May 18; v. 274; p. 526.
Display-case. W. H. Gallagher. No. 1,336,899; Apr. 13; v. 273; p. 287.
Display-case. T. Norberg. No. 1,356,216; Oct. 19; v. 279; p. 441.
Display-case, Refrigerator-counter. A. N. Hornung. No. 1,347,161; July 20; v. 276; p. 482.
Display device. D. Bacher. No. 1,356,588; Oct. 26; v. 279; p. 560.
Display device. E. C. Booth. No. 1,350,542; Aug. 24; v. 277; p. 641.
Display device. S. E. Duveck. No. 1,355,132; Oct. 12; v. 279; p. 188.
Display device. H. L. A. Frank. No. 1,345,158; June 29; v. 275; p. 940.
Display device. J. K. Hackett. No. 1,344,084; June 22; v. 275; p. 666.
Display device. H. B. Lentz. No. 1,357,879; Nov. 2; v. 280; p. 129.
Display device. J. D. Noble. No. 1,361,769; Dec. 7; v. 281; p. 158.
Display device. J. Stranders. No. 1,332,694; Mar. 2; v. 272; p. 99.
Display device. J. Stranders. No. 1,333,227; Mar. 9; v. 272; p. 251.
Display device. J. Stranders. No. 1,334,056; Mar. 16; v. 272; p. 468.
Display device. J. Stranders. No. 1,359,203; Nov. 16; v. 280; p. 595.
Display device, Soft-collar-. E. C. Garland and W. G. Martin. No. 1,335,679; Mar. 30; v. 272; p. 879.
Display-easel for trailers. R. C. Kaiser. No. 1,327,618; Jan. 13; v. 270; p. 199.
Display-exhibitor. P. P. Figueroa. No. 1,341,116; May 25; v. 274; p. 669.
Display-fixture. C. N. Cahusac. No. 1,358,415; Nov. 9; v. 280; p. 297.
Display-fixture. L. Shogran. No. 1,333,042; Mar. 9; v. 272; p. 217.
Display-fixture. L. Shogran. No. 1,358,792; Nov. 16; v. 280; p. 417.
Display-fixtures, Spacer for panels of. H. V. Lough. No. 1,344,239; June 22; v. 275; p. 696.
Display-form. H. Hoffman. No. 1,351,516; Aug. 31; v. 277; p. 894.
Display-holder. L. C. Quackenboss. No. 1,341,822; June 1; v. 275; p. 41.
Display-holder. L. G. Quackenboss. No. 1,343,681; June 15; v. 275; p. 522.
Display-holder for fertilizer and grain samples, Portable. C. Schrank. No. 1,359,750; Nov. 23; v. 280; p. 649.
Display-matter, Button or badge for. H. M. Magid. No. 1,330,599; Feb. 10; v. 271; p. 265.
Display publicity by machine, Framework for. C. R. Finch. No. 1,336,881; Apr. 13; v. 273; p. 273.
Display-rack. J. D. Brown. No. 1,345,831; July 6; v. 276; p. 98.
Display-rack. G. F. Cooper. No. 1,351,994; Sept. 7; v. 278; p. 56.
Display-rack. E. L. Hamilton. No. 1,359,987; Nov. 23; v. 280; p. 696.
Display-rack. A. E. Miller. No. 1,341,512; May 25; v. 274; p. 745.
Display-rack. B. E. Willett. No. 1,345,525; July 6; v. 276; p. 39.
Display rack and cutting-table, Oilcloth-. F. M. Baldwin. No. 1,352,397; Sept. 7; v. 278; p. 180.
Display rack, Garment-. R. J. Riordan and J. P. Hanley. No. 1,332,146; Feb. 24; v. 271; p. 644.
Display retainer, Article-. A. Dietsche. No. 1,333,102; Mar. 9; v. 272; p. 228.
Display-stand. C. L. Kaley. No. 1,361,334; Dec. 7; v. 281; p. 71.
Display-stand. G. E. Nerney. No. 1,355,349; Oct. 12; v. 279; p. 231.
Display-stand. X. O. Ray. No. 1,350,940; Aug. 24; v. 277; p. 717.
Display-stand. S. T. Sheppard. No. 1,351,007; Aug. 24; v. 277; p. 730.
Display-stand. A. W. P. Vergeer. No. 1,359,937; Nov. 23; v. 280; p. 686.
Display-stand. J. M. Walters. No. 1,351,817; Sept. 7; v. 278; p. 20.
Display-stand and coin-holder. A. Schlueter. No. 1,349,786; Aug. 17; v. 277; p. 448.
Display-stand, Rotary. J. Zander. No. 1,360,856; Nov. 30; v. 280; p. 935.
Display-support. W. B. and W. J. Blackwell. No. 1,337,816; Apr. 20; v. 273; p. 534.
Display-table. E. G. Anderson. No. 1,353,208; Sept. 21; v. 278; p. 387.
Display-tray. M. Bornstein. No. 1,355,072; Oct. 5; v. 279; p. 124.
Display vending-vehicle, Refrigerator. P. L. Serwe and G. C. Dickey. No. 1,340,853; May 18; v. 274; p. 547.
Displaying device. J. Fazio. No. 1,344,685; June 29; v. 275; p. 849.
Displaying device, Illuminated. J. H. Chidester. No. 1,344,379; June 22; v. 275; p. 724.
Displaying merchandise, Box or carton for. R. L. Gray. No. 1,334,932; Mar. 23; v. 272; p. 681.

Digitized by Google

Displaying units and quotations, news and advertising, Apparatus for. W. H. Butler. No. 1,356,260; Oct. 19; v. 279; p. 450.
Dissolver, Rapid. J. Johnson. No. 1,353,166; Sept. 21; v. 278; p. 378.
Distillation. D. L. Newton. No. 1,356,878; Oct. 26; v. 279; p. 617.
Distillation. E. E. Pershall. No. 1,341,437; May 25; v. 274; p. 731.
Distillation, Apparatus for. V. L. Emerson. No. 1,337,831; Apr. 20; v. 273; p. 537.
Distillation, Apparatus for. V. L. Emerson. No. 1,356,057; Oct. 19; v. 279; p. 408.
Distillation, Destructive. C. Turner. No. 1,336,264; Apr. 6; v. 273; p. 106.
Distillation, Dry. E. L. Rinman. No. 1,347,713; July 27; v. 276; p. 649.
Distillation or gasification of organic matter or minerals containing organic matter, Process of and oven for the continuous. F. Rippl. No. 1,355,268; Oct. 12; v. 279; p. 215.
Distiller's slop, Treating. H. P. Bassett. No. 1,344,850; June 29; v. 275; p. 881.
Distillers' slop, Treating. H. P. Bassett. No. 1,344,851; June 29; v. 275; p. 882.
Distillers' slops, Treating. H. P. Bassett. No. 1,357,138; Oct. 26; v. 279; p. 668.
Distilling. A. Hayes. No. 1,338,983; May 4; v. 274; p. 61.
Distilling and heating apparatus. R. S. Mears. No. 1,358,091; Nov. 9; v. 280; p. 232.
Distilling apparatus. W. A. Rushworth. No. 1,359,276; Nov. 16; v. 280; p. 509.
Distilling apparatus, Rotary dry-. F. G. Ten Broeck. No. 1,350,627; Aug. 24; v. 277; p. 658.
Distributer and connector, Combined. G. L Lang. No. 1,338,989; May 4; v. 274; p. 62.
Distributer, Proportional. J. F. Laffoon. No. 1,348,885; Aug. 10; v. 277; p. 198.
Distributing apparatus. O. W. Breden. No. 1,360,493; Nov. 30; v. 280; p. 863.
Distributing-machine. O. P. Greenwood. No. 1,339,557; May 11; v. 274; p. 244.
Distributing-machine. F. C. Nirlder. No. 1,333,818; Mar. 16; v. 272; p. 423.
Distributing system. P. MacGahan. No. 1,329,193; Jan. 27; v. 270; p. 562.
Distributing system, Double-frequency. L. W. Chubb. No. 1,362,081; Dec. 14; v. 281; p. 267.
Distributing systems, Protective means for. C. L. Fortescue. No. 1,339,923; May 11; v. 274; p. 314.
Distribution of articles, Machine for effecting orderly. T. Gensmer and G. F. Lieberman. No. 1,336,778; Apr. 13; v. 273; p. 263.
Distribution of articles, particularly buttons, Machine for effecting orderly. A. J. Matter and F. V. Conley. No. 1,336,785; Apr. 13; v. 273; p. 265.
Distribution system. C. L. Fortes. (Reissue.) No. 14,978; Nov. 9; v. 280; p. 352.
Distribution system. C. L. Fortescue. No. 1,351,033; Aug. 31; v. 277; p. 798.
Distribution system. C. L. Fortescue. No. 1,357,229; Nov. 2; v. 280; p. 6
Disulfid, Making carbon. H. H. Dow and C. J. Strosacker. No. 1,350,858; Aug. 24; v. 277; p. 702.
Ditch-digger. R. A. Bayles. No. 1,346,075; July 6; v. 276; p. 148.
Ditch-digger and grading-machine. G. A. Bonelli. No. 1,360,874; Nov. 30; v. 280; p. 938.
Ditch-digging machine. G. B. Campbell. No. 1,333,158; Mar. 9; v. 272; p. 238.
Ditch-digging machine. J. Engen. No. 1,335,674; Mar. 30; v. 272; p. 879.
Ditch-excavating machine. K. J. McDermott. No. 1,338,784; May 4; v. 274; p. 25.
Ditch-filler. G. F. Storm. No. 1,352,155; Sept. 7; v. 278; p. 85.
Ditch lining, Irrigation-. F. Sullivan. No. 1,363,690; Dec. 28; v. 281; p. 671.
Ditches, Method of and apparatus for trimming irrigation and drainage. F. A. Whitaker. No. 1,351,014; Aug. 24; v. 277; p. 731.
Ditching and grading machine. C. M. Kimbley. No. 1,327,047; Jan. 6; v. 270; p. 32.
Ditching and terracing device. G. R. Cook. No. 1,358,522; Nov. 9; v. 280; p. 318.
Ditching-machine. A. Bramer. No. 1,356,426; Oct. 19; v. 279; p. 482.
Ditching-machine. I. E. Hanson. No. 1,329,523; Feb. 3; v. 271; p. 34.
Ditching-machine. T. K. Leonard. No. 1,355,677; Oct. 12; v. 279; p. 294.
Ditching-machine attachment. C. E. J. Ruehle. No. 1,335,605; Mar. 30; v. 272; p. 865.
Dividers, callipers, &c. J. H. K. Miller. No. 1,350,511; Aug. 24; v. 277; p. 635.
Dividing-machine. F. B. Glover. No. 1,333,408; Mar. 9; v. 272; p. 285.
Diving apparatus. B. F. Leavitt. No. 1,327,679; Jan. 13; v. 270; p. 211.
Diving apparatus. F. W. Pendergast. No. 1,343,744; June 15; v. 275; p. 535.
Diving spring-board D. E. Johnson. No. 1,347,510; July 27; v. 276; p. 608.
Divisor, Adjustable. A. P. Ackerman. No. 1,331,476; Feb. 24; v. 271; p. 519.
Dock, Floating dry-. T. H. Hamilton. No. 1,335,497; Mar. 30; v. 272; p. 845.
Dock, Floating wooden dry-. J. L. Bryne. No. 1,336,941; Apr. 13; v. 273; p. 295.
Dolly. C. Redpath. No. 1,349,099; Aug. 10; v. 277; p. 240.
Doll. S. Adler. No. 1,328,254; Jan. 20; v. 270; p. 355.
Doll. G. J. Bernau. No. 1,340,848; May 18; v. 274; p. 546.
Doll. M. J. Duff. No. 1,340,160; May 18; v. 274; p. 417.
Doll. H. T. Fleisher. No. 1,358,069; Nov. 9; v. 280; p. 228.
Doll. C. L. Glossbrenner. No. 1,332,825; Mar. 2; v. 272; p. 124.
Doll. E. R. Gould. No. 1,346,953; July 20; v. 276; p. 442.
Doll. W. D. Kemp. No. 1,341,985; June 1; v. 275; p. 73.
Doll. O. M. Klinker. No. 1,333,118; Mar. 9; v. 272; p. 231.
Doll. A. Lissi. No. 1,332,732; Mar. 2; v. 272; p. 106.
Doll. E. L. Lopez. No. 1,353,406; Sept. 21; v. 278; p. 425.
Doll. W. C. J. Miller. No. 1,361,275; Dec. 7; v. 281; p. 58.
Doll. J. Németh. No. 1,327,168; Jan. 6; v. 270; p. 54.
Doll. J. C. Poore. No. 1,334,470; Mar. 23; v. 272; p. 591.
Doll. J. Roberts. No. 1,331,378; Feb. 17; v. 271; p. 480.
Doll. W. G. Schoenhut. No. 1,358,470; Nov. 9; v. 280; p. 308.
Doll. R. A. Thomson and G. Alvis. No. 1,343,422; June 15; v. 275; p. 471.
Doll and method of making. M. M. Meldram. No. 1,362,727; Dec. 21; v. 281; p. 445.
Doll, Comic. O. A. Flynn. No. 1,336,898; Apr. 13; v. 273; p. 287.
Doll, Dancing. J. Switzk. No. 1,360,470; Nov. 30; v. 280; p. 859.
Doll-eye-painting machine. S. Radimak. No. 1,352,528; Sept. 14; v. 278; p. 192.
Doll, Hand-painted rag. L. and B. Shinn. No. 1,327,884; Jan. 13; v. 270; p. 249.
Doll-head. J. B. Dane and C. S. Cannon. No. 1,329,509; Feb. 3; v. 271; p. 32.
Doll-head. L. R. Kampes. No. 1,357,779; Nov. 2; v. 280; p. 110.
Doll-house. K. Suychiro. No. 1,343,065; June 8; v. 275; p. 338.
Doll-house, Knockdown. C. J. Schmitt and K. R. Schundler. No. 1,333,455; Mar. 9; v. 272; p. 294.
Doll, Jointed. C. A. Giebeler-Wanke. No. 1,348,216; Aug. 3; v. 277; p. 16.
Doll-molding machine. S. Radimak. No. 1,359,102; Nov. 16; v. 280; p. 476.
Doll, Movie-star. M. W. Powell. No. 1,362,264; Dec. 14; v. 281; p. 303.
Doll, Paper. M. P. Offutt. No. 1,330,043; Feb. 3; v. 271; p. 130.
Doll, Paper. C. S. Raizen. No. 1,357,421; Nov. 2; v. 280; p. 42.
Doll, Walking. L. V. Aronson. No. 1,357,374; Nov. 2; v. 280; p. 33.
Doll, Walking. C. F. Arnold. No. 1,352,933; Sept. 14; v. 278; p. 273.
Doll, Walking. F. Criest. No. 1,329,958; Feb. 3; v. 271; p. 115.
Doll, Walking. J. G. Olsen, and L. Cook. No. 1,332,355; Mar. 2; v. 272; p. 35.
Doll, Walking. H. Trabert. No. 1,335,804; Apr. 6; v. 273; p. 19.
Doll walking device. G. H. Williamson. No. 1,355,789; Oct. 12; v. 279; p. 315.
Dolls, Arm and bust for stuffed. M. Schoen. No. 1,356,405; Oct. 19; v. 279; p. 478.
Dolls, &c., Ball-and-socket joint for. C. Cabana. No. 1,359,030; Nov. 16; v. 280; p. 463.
Dolls, display-figures, &c., Artificial eyes for. S. Marcus. No. 1,331,272; Feb. 17; v. 271; p. 460.
Dolls, Dirigible-eye structure for. J. C. Poore. No. 1,328,100; Jan. 13; v. 270; p. 290.
Doll's eye. O. E. Denivelle. No. 1,354,382; Sept. 28; v. 278; p. 666.
Doll's eye. D. Pudlin. No. 1,330,718; Feb. 10; v. 271; p. 288.
Doll's eyes. F. Peterman. No. 1,332,518; Mar. 2; v. 272; p. 66.
Dolls from tubular blanks, Forming. H. Nelke. No. 1,354,331; Sept. 28; v. 278; p. 655.
Dolls' heads, Eye-mounting for. C. A. Giebeler-Wanke. No. 1,361,847; Dec. 14; v. 281; p. 220.
Dolly extension. G. A. De Graff. No. 1,336,073; Apr. 6; v. 273; p. 70.
Dominoes. H. Hydes. No. 1,362,318; Dec. 14; v. 281; p. 314.
Door. J. Johnson. No. 1,335,838; Apr. 6; v. 273; p. 25.
Door. E. H. McCloud. No. 1,342,751; June 8; v. 275; p 275.

Digitized by Google

Door. M. A. Metzger. No. 1,353,176; Sept 21; v. 278; p. 381.
Door. J. Smelser. No. 1,345,967; July 6; v. 276; p. 127.
Door. E. A. Smith. No. 1,346,268; July 13; v. 276; p. 247.
Door and lock therefor. E. B. Stone and C. E. Johnson. No. 1,362,514; Dec. 14; v. 281; p. 351.
Door and lock therefor. E. B. Stone and C. E. Johnson. No. 1,362,647; Dec. 21; v. 281; p. 429.
Door and window. G. B. Boughton. No. 1,358,356; Nov. 9; v. 280; p. 285.
Door and window construction, Screen. D. C. Blake. No. 1,351,940; Sept. 7; v. 278; p. 45.
Door and window fastener, Portable. C. P. Schoelkopf. No. 1,353,543; Sept. 21; v. 278; p. 452.
Door, Automatic elevator-. J. R. McGee. No. 1,343,328; June 15; v. 275; p. 452.
Door, Automatically-closing bulkhead-. T. J. Foerster and L. J. Pfund. No. 1,337,060; Apr. 13; v. 273; p. 318.
Door-bolt. E. J. Smith. No. 1,345,031; June 29; v. 275; p. 91..
Door-bolt. P. Welsh. No. 1,355,371; Oct. 12; v. 279; p. 235.
Door-buffer. B. H. Seabury and J. C. Ollard. No. 1,329,313; Jan. 27; v. 270; p. 583.
Door-bumper. S. B. Atwood. No. 1,353,506; Sept. 21; v. 278; p. 445.
Door bumper, Automobile-. A. L. Miers. No. 1,340,621; May 18; v. 274; p. 504.
Door-catch. A. Drummund. No. 1,336,897; Apr. 13; v. 273; p. 287.
Door-check. J. F. O'Connor. No. 1,356,005; Oct. 19; v. 279; p. 398.
Door-check. M. E. and R. M. Tate. No. 1,354,079; Sept. 28; v. 278; p. 604.
Door-check, Air-controlled-piston. F. P. Angell. No. 1,359,144; Nov. 16; v. 280; p. 484.
Door check and closer. W. J. Bryon. No. 1,363,390; Dec. 21; v. 281; p. 613.
Door check and closer. T. E. Collins. No. 1,353,219; Sept. 21; v. 278; p. 389.
Door check, Sliding-. J. R. Mitchell. No. 1,357,244; Nov. 2; v. 280; p. 9.
Door check, Sliding-. J. F. O'Connor. No. 1,356,003; Oct. 19; v. 279; p. 398.
Door checks and closers, Adjusting device for. W. J. Bryon. No. 1,361,304; Dec. 7; v. 281; p. 64.
Door-checking device. J. O. Naslin. No. 1,360,008; Nov. 23; v. 280; p. 700.
Door-closer. P. Mikkelsen. No. 1,331,349; Feb. 17; v. 271; p. 474.
Door-closer. R. E. Mothmiller. No. 1,363,900; Dec. 28; v. 281; p. 712.
Door-closer. L. C. Norton. No. 1,345,504; July 6; v. 276; p. 85.
Door closer and check. W. J. Bryon. No. 1,364,034; Dec. 28; v. 281; p. 738.
Door-closer, Automatic. H. L. Claesson. No. 1,340,366; July 13; v. 276; p. 266.
Door-closing device. J. O. Naslin. No. 1,357,583; Nov. 2; v. 280; p. 72.
Door-closing device. C. A. Purvis. No. 1,358,573; Nov. 9; v. 280; p. 328.
Door-closing strap, Invisible. J. Carter. No. 1,358,519; Nov. 9; v. 280; p. 318.
Door, Coin-controlled. W. J. Bishop. No. 1,351,609; Aug. 31; v. 277; p. 913.
Door, Combination screen and storm. M. H. Otto. No. 1,329,427; Feb. 23; v. 271; p. 16.
Door, Combined hinged and sliding. A. Rush. No. 1,348,125; July 27; v. 276; p. 731.
Door construction. C. J. Jackson. No. 1,332,441; Mar. 2; v. 272; p. 51.
Door construction, Metal. E. Fulda. No. 1,328,918; Jan. 27; v. 270; p. 510.
Door-controller. W. H. Durant. No. 1,331,329; Feb. 17; v. 271; p. 470.
Door-controlling apparatus. W. P. Dorl. No. 1,338,073; Apr. 27; v. 273; p. 653.
Door-controlling apparatus. F. O. Liming. No. 1,352,980; Sept. 14; v. 278; p. 283.
Door-controlling device. E. S. Coffman. No. 1,334,081; Mar. 16; v. 272; p. 473.
Door-controlling device. E. S. Coffman. No. 1,353,218; Sept. 21; v. 278; p. 389.
Door-controlling device. L. C. Norton. No. 1,358,977; Nov. 16; v. 280; p. 453.
Door-controlling device. C. W. Potts. No. 1,337,954; Apr. 20; v. 273; p. 562.
Door, Disappearing garage-. G. B. Boughton. No. 1,341,041; May 25; v. 274; p. 654.
Door, Elevator-. W. M. Brunst. No. 1,354,596; Oct. 5; v. 279; p. 30.
Door, Elevator-shaft. A. Rush. No. 1,341,863; June 1; v. 275; p. 49.
Door, Elevator-shaft. A. Rush. No. 1,341,864; June 1; v. 275; p. 49.
Door-equalizer. A. M. Woltz. No. 1,348,680; Aug. 3; v. 277; p. 107.
Door equipment, Roller-. M. A. Rutenber. No. 1,350,622; Aug. 24; v. 277; p. 657.
Door-fastener. C. A. Bear. No. 1,351,736; Sept. 7; v. 278; p. 4.
Door-fastener. H. K. Buggeln. No. 1,336,505; Apr. 13; v. 273; p. 210.
Door-fastener. M. P. Embach and J. L. Bruce. No. 1,335,100; Mar. 30; v. 272; p. 772.
Door-fastening device. J. H. Hockenberry. No. 1 359,702; Nov. 23; v. 280; p. 639.
Door-fastening device, Automatically-operating hood-. W. H. Farr. No. 1,335,958; Apr 6; v. 273; p. 48.
Door fastening, Sliding-. T. H. Baker. No. 1,331,858; Feb. 24; v. 271; p. 592.
Door, Fire resisting. E. H. McCloud. No. 1,349,519; Aug. 10; v. 277; p. 323.
Door for display-cabinets. J. F. Reymann. No. 1,355,692; Oct. 12; v. 279; p. 297.
Door-frame and ladder, Reinforced. I. Pomerantz. No. 1,334,921; Mar. 23; v. 272; p. 678.
Door-frame and similar structure. T. Malcolm. No. 1,347,172; July 20; v. 276; p. 484.
Door frame, Furnace-. W. H. Stewart. No. 1,333,225; Mar. 9; v. 272; p. 251.
Door, Grain-. P. Chesebro. No. 1,336,068; Apr. 6; v. 273; p. 69.
Door, Grain-. H. Kaler. No. 1,357,326; Nov. 2; v. 280; p. 25.
Door, Grain-. W. C. Lang. No. 1,357,407; Nov. 2; v. 280; p. 39.
Door, Grain-. N. Smithback and W. H. Meier. No. 1,340,506; May 18; v. 274; p. 482.
Door, Grain-. H. H. Wheeler and H. J. Nilson. No. 1,355,874; Oct. 19; v. 279; p. 373.
Door-handle-locking device. J. M. Peterson and J. Meredith. No. 1,348,047; July 27; v. 276; p. 716.
Door-handle, Self-seating. G. W. Kennington. No. 1,337,918; Apr. 20; v. 273; p. 554.
Door-handling machine. J. E. Hubbell. No. 1,357,057; Oct. 26; v. 279; p. 652.
Door-handling machine. J. E. Hubbell. No. 1,357,058; Oct. 26; v. 279; p. 652.
Door-hanger. P. Frantz. No. 1,361,845; Dec. 14; v. 281; p. 220.
Door-hanger. L. L. Parsons. No. 1,329,326; Jan. 27; v. 270; p. 585.
Door-hanger. L. L. Parsons. No. 1,329,327; Jan. 27; v. 270; p. 585.
Door-hanger. G. M. Piper. (Reissue.) No. 14,893; June 22; v. 275; p. 771.
Door-hanger. T. V. Plice. No. 1,341,584; May 25; v. 274; p. 759.
Door-hanger. G. Rhines. No. 1,351,002; Aug. 31; v. 277; p. 804.
Door-hanger. I. R. Salladay. No. 1,339,790; May 11; v. 274; p. 289.
Door-hanger. B. Spitzfaden. No. 1,348,758; Aug. 3; v. 277; p. 121.
Door hanger, Baggage-car-side-. D. McBride. No. 1,328,442; Jan. 20; v. 270; p. 391.
Door hanger equipment, Folding-. P. B. Weis. No. 1,349,398; Aug. 10; v. 277; p. 299.
Door hanger equipment, Folding-. P. B. Weis. No. 1,349,399; Aug. 10; v. 277; p. 300.
Door-hanger, Releasable. W. A. Geiger. No. 1,357,771; Nov. 2; v. 280; p. 109.
Door-hanger track. P. Frantz. No. 1,329,460; Feb. 3; v. 271; p. 22.
Door-hanger track and housing. P. Frantz. No. 1,329,461; Feb. 3; v. 271; p. 22.
Door-holder. C. W. Cade. No. 1,327,754; Jan. 13; v. 270; p. 225.
Door-holder. E. Lanning. No. 1,354,046; Sept. 28; v. 278; p. 597.
Door-holder. H. G. Voight. No. 1,338,052; Apr. 27; v. 273; p. 649.
Door-holder. A. D. Waters. No. 1,358,340; Nov. 9; v. 280; p. 283.
Door holder and stop, Combined. H. Harden. No. 1,348,108; July 27; v. 276; p. 727.
Door-knob alarm. J. M. Butcher. No. 1,327,021; Jan. 6; v. 270; p. 27.
Door-knob attachment. A. W. Story. No. 1,334,267; Mar. 16; v. 272; p. 507.
Door-knob with illuminating means. R. A. Elfstrom. No. 1,331,959; Feb. 24; v. 271; p. 610.
Door-latching means. E. H. Belden. No. 1,339,492; May 11; v. 274; p. 232.
Door-lock. C. M. Anderson. No. 1,332,193; Mar. 2; v. 272; p. 3.
Door-lock. E. Bradshaw. No. 1,362,669; Dec. 21; v. 281; p. 434.
Door-lock. J. Codos and B. May. No. 1,336,617; Apr. 13; v. 273; p. 232.
Door-lock. J. E. Fisher. No. 1,330,693; Feb. 10; v. 271; p. 283.
Door-lock. I. Hammer. No. 1,362,417; Dec. 14; v. 281; p. 332.
Door-lock. L. Hildreth. No. 1,359,374; Nov. 16; v. 280; p. 529.
Door-lock. J. C. Hutson. No. 1,356,526; Oct. 26; v. 279; p. 548.
Door-lock. W. Lougheed. No. 1,352,819; Sept. 14; v. 278; p. 251.
Door-lock. W. A. Lurie. No. 1,352,010; Sept. 7; v. 278; p. 59.
Door-lock. C. R. Martin. No. 1,348,028; July 27; v. 276; p. 712

Digitized by Google

Door-lock. E. E. L. Montelius. No. 1,352,304; Sept. 7; v. 278; p. 113.
Door-lock. E. H. O'Brien. No. 1,340,398; May 18; v. 274; p. 461.
Door-lock. R. C. Patton. No. 1,357,112; Oct. 26; v. 279; p. 663.
Door-lock. S. C. Sigman. No. 1,341,599; May 25; v. 274; p. 762.
Door-lock. J. Toney. No. 1,338,713; May 4; v. 274; p. 12.
Door-lock, Auxiliary. W. A. Shirley. No. 1,332,473; Mar. 2; v. 272; p. 57.
Door-locks, Circuit-closer for. A. K. Winter. No. 1,344,783; June 29; v. 275; p. 869.
Door-lock mechanism. F. F. Smith. No. 1,357,007; Oct. 26; v. 279; p. 642.
Door-lock, Mortise. R. A. Breul. No. 1,355,123; Oct. 12; v. 279; p. 186.
Door-lock, Portable safety. A. P. Porter. No. 1,334,399; Mar. 23; v. 272; p. 578.
Door locker bolt. F. F. Wilkins. No. 1,347,799; July 27; v. 276; p. 666.
Door-locking means. C. W. Hovis. No. 1,350,226; Aug. 17; v. 277; p. 533.
Door-mat, Vacuum electric. G. C. Parker. No. 1,359,193; Nov. 16; v. 280; p. 493.
Door, Motor-. C. C. Tomkinson. No. 1,326,995; Jan. 6; v. 270; p. 22.
Door-opener. E. E. Allen. No. 1,337,384; Apr. 20; v. 273; p. 453.
Door-opener. B. Becker. No. 1,328,979; Jan. 27; v. 270; p. 522.
Door-opener. U. Hebert. No. 1,361,726; Dec. 7; v. 281; p. 150.
Door opening and closing device. V. Schildwachter. No. 1,354,135; Sept. 28; v. 278; p. 616.
Door opening and closing device. J. Wade, S. J. Markin, and H. A. Du Prey. No. 1,347,193; July 20; v. 276; p. 488.
Door opening and closing mechanism. H. E. Doan. No. 1,347,844; July 27; v. 276; p. 675.
Door opening and closing mechanism. W. A. and O. H. Oleen. No. 1,333,567; Mar. 9; v. 272; p. 315.
Door-opening device, Automatic. A. E. Thomas. No. 1,354,632; Oct. 5; v. 279; p. 37.
Door-opening mechanism. R. W. McClenon. No. 1,356,077; Oct. 19; v. 279; p. 413.
Door-operating device. G. Freeze. No. 1,361,707; Dec. 7; v. 281; p. 146.
Door-operating device, Barn-. J. F. Lindberg. No. 1,338,027; Apr. 27; v. 273; p. 645.
Door-operating means. J. D. Smith. No. 1,362,750; Dec. 21; v. 281; p. 449.
Door-operating mechanism. J. Baloc. No. 1,348,076; July 27; v. 276; p. 721.
Door-operating mechanism. A. F. Bowers. No. 1,341,775; June 1; v. 275; p. 32.
Door-operating mechanism. A. Campbell. No. 1,342,090; June 1; v. 275; p. 94.
Door-operating mechanism. H. S. Hart. (Reissue.) No. 14,785; Jan. 6; v. 270; p. 136.
Door-operating mechanism. G. R. Leach. No. 1,338,379; Apr. 27; v. 273; p. 711.
Door-operating mechanism. F. J. Longuskie. No. 1,330,713; Feb. 10; v. 271; p. 287.
Door-operating mechanism. A. S. Noonan. No. 1,328,584; Jan. 20; v. 270; p. 418.
Door-operating mechanism. S. J. Strid. No. 1,338,755; May 4; v. 274; p. 20.
Door-operating mechanism. B. M. Warner. No. 1,350,688; Aug. 24; v. 277; p. 670.
Door or partition construction, Sheet-metal. C. A. Betz. No. 1,343,545; June 15; v. 275; p. 495.
Door or window fastener. A. J. Blegacki. No. 1,354,876; Oct. 5; v. 279; p. 86.
Door-panel. J. Regenstein. No. 1,351,488; Aug. 31; v. 277; p. 888.
Door, partition, &c., and operating mechanism therefor, Collapsible. A. Bombelli. No. 1,351,229; Aug. 31; v. 277; p. 836.
Door, Pipe-. J. Dick. No. 1,327,377; Jan. 6; v. 270; p. 92.
Door, Power-operated sliding. L. V. Homan. No. 1,332,727; Mar. 2; v. 272; p. 105.
Door-rabbet strip. E. R. Mitchell. No. 1,350,108; Aug. 17; v. 277; p. 510.
Door remover, Grain-. T. C. Manning. No. 1,332,404; Mar. 2; v. 272; p. 44.
Door-retainer. F. P. Eustege. No. 1,353,523; Sept. 21; v. 278; p. 448.
Door, Rolling. H. A. Johnson. No. 1,345,447; July 6; v. 276; p. 23.
Door, Safe or cabinet. R. H. Dick. No. 1,329,511; Feb. 3; v. 271; p. 32.
Door-securer. T. C. Moore. No. 1,339,856; May 11; v. 274; p. 302.
Door, Sheet-metal. A. S. Barrows. No. 1,342,400; June 1; v. 275; p. 153.
Door, Silo-. T. B. Atkins. No. 1,341,533; May 25; v. 274; p. 749.
Door, Silo-. H. Hulen and C. F. Brown. No. 1,331,770; Feb. 24; v. 271; p. 574.
Door, Sliding. A. Jaeger, Sr. No. 1,354,562; Oct. 5; v. 279; p. 23.
Door, Sliding. A. Rush. No. 1,332,956; Mar. 9; v. 272; p. 201.
Door, Sliding. P. F. Stacke. No. 1,343,416; June 15; v. 275; p. 470.
Door-spring. J. A. Campbell. No. 1,343,033; June 8; v. 275; p. 332.
Door-spring. E. V. Gandil. No. 1,337,763; Apr. 20; v. 273; p. 525.
Door-spring. M. A. Kalton. No. 1,354,196; Sept. 28; v. 278; p. 628.
Door-spring. W. P. Martin. No. 1,328,961; Jan. 27; v. 270; p. 518.
Door-stop. N. Crank. No. 1,357,765; Nov. 2; v. 280; p. 107.
Door-stop. J. Daniele. No. 1,354,469; Oct. 5; v. 279; p. 5.
Door-stop. J. M. Guynn. No. 1,352,456; Sept. 14; v. 278; p. 178.
Door-stop. W. J. Kelly. No. 1,338,571; Apr. 27; v. 273; p. 746.
Door-stop. J. T. Little. No. 1,333,499; Mar. 9; v. 272; p. 302.
Door-stop. A. C. Sargeant. No. 1,352,147; Sept. 7; v. 278; p. 84.
Door stop and holder. A. H. Mardaus. No. 1,347,048; July 20; v. 276; p. 461.
Door stop and lock. F. and O. Paulus. No. 1,336,535; Apr. 13; v. 273; p. 216.
Door, Stove-. J. L. Anthony. No. 1,348,838; Aug. 10; v. 277; p. 189.
Door, Stove-. W. T. Barbour and W. L. Mersfelder. No. 1,350,768; Aug. 24; v. 277; p. 685.
Door-support. L. T. Eanes. No. 1,334,442; Mar. 23; v. 272; p. 587.
Door track, Sliding-. J. Surprise. No. 1,352,100; Sept. 7; v. 278; p. 75.
Door track, Barn-. H. L. Ferris. No. 1,355,548; Oct. 12; v. 279; p. 270.
Doors, Air-opener for. J. Szczurek. No. 1,338,882; May 4; v. 274; p. 43.
Doors and the like, Metal frame for. E. R. Leonard. No. 1,363,887; Dec. 28; v. 281; p. 710.
Doors and windows, Fly-exit for screen. R. B. Watson and J. C. Kitterman. No. 1,343,069; June 8; v. 275; p. 339.
Doors and windows, Flytrap for screen. H. F. Davis. No. 1,357,619; Nov. 2; v. 280; p. 79.
Doors, Automatic lock device for. C. F. Bradley. No. 1,337,638; Apr. 20; v. 273; p. 501.
Doors, Combined locking and circuit-controlling device for double. F. A. Boedtcher. No. 1,346,111; July 13; v. 276; p. 216.
Doors, Controlling mechanism for. F. N. Pearson. No. 1,335,750; Apr. 6; v. 273; p. 9.
Doors, Door-latch and controlling device for combined hinge and slide. T. V. Plice. No. 1,341,583; May 25; v. 274; p. 759.
Doors, Door-latch and controlling device for combined hinge and slide. (Reissue.) T. V. Plice. No. 14,945; Aug. 31; v. 277; p. 936.
Doors, Fastener for sliding. W. P. Lawson. No. 1,361,594; Dec. 7; v. 281; p. 124.
Doors, Electric interlock for counterbalanced elevator-. B. Wexler. No. 1,328,309; Jan. 20; v. 270; p. 366.
Doors, gates, and the like, Snap-lock for. T. G. Propert. and W. R. Brown. No. 1,347,292; July 20; v. 276; p. 509.
Doors, Gear for operating bulkhead-. H. H. Bentley. No. 1,361,221; Dec. 7; v. 281; p. 47.
Doors, Hinge for oven-. E. P. Cole. No. 1,335,044; Mar. 30; v. 272; p. 761.
Doors, Latch mechanism for silo-. F. A. Taylor. No. 1,340,922; May 25; v. 274; p. 630.
Doors, Locking apparatus for dumb-waiter. J. Hirshfeld. No. 1,361,582; Dec. 7; v. 281; p. 122.
Doors, Locking mechanism for vault-. F. E. Arndt. No. 1,328,355; Jan. 20; v. 270; p. 374.
Doors, Means for slidingly supporting folding. E. J. G. Phillips. No. 1,357,299; Nov. 2; v. 280; p. 19.
Doors, Mechanism for opening. G. A. Anderson. No. 1,356,118; Oct. 19; v. 279; p. 421.
Doors, Operating and control mechanism for. G. R. Leach. No. 1,358,859; Nov. 16; v. 280; p. 430.
Doors, Power-operated mechanism for moving. H. Rowntree. No. 1,339,671; May 11; v. 274; p. 267.
Doors, Safety device for. A. L. Cresci. No. 1,356,192; Oct. 19; v. 279; p. 436.
Doors, Swivel-hanger for. T. V. Plice. No. 1,343,789; June 15; v. 275; p. 544.
Doors, windows, shutters, or the like, Lock, bolt, or catch for. T. P. Conlon. No. 1,347,251; July 20; v. 276; p. 500.
Doorknob. R. A. Breul. No. 1,341,969; June 1; v. 275; p. 70.
Doorstop and holder. J. W. Newsom. No. 1,344,647; June 29; v. 275; p. 842.
Double-acting power-wrench. C. E. Pendleton. No. 1,353,417; Sept. 21; v. 278; p. 427.
Double clamp. G. T. Benton. No. 1,352,647; Sept. 14; v. 278; p. 216.
Double-seaming stake. J. Olson. No. 1,337,466; Apr. 20; v. 273; p. 468.

Digitized by Google

Double-throw bolt. S. W. Parsons. No. 1,334,314; Mar. 23; v. 272; p. 562.
Double-throw switch, Quick-break. A. Oakes. No. 1,359,732; Nov. 23; v. 280; p. 645.
Doubletree. H. Gant. No. 1,355,138; Oct. 12; v. 279; p. 189.
Douche. T. H. McNamara. No. 1,329,718; Feb. 3; v. 271; p. 69.
Douche and medicator, Vaginal. C. W. De Long. No. 1,327,705; Jan. 13; v. 270; p. 216.
Douche-can. F. J. O'Rourke. No. 1,347,398; July 20; v. 276; p. 529.
Douche-tip. M. M. Shafer. No. 1,338,464; Apr. 27; v. 273; p. 727.
Dough, Apparatus for working. L. Embrey. No. 1,334,024; Mar. 16; v. 272; p. 462.
Dough-compressor. R. R. Tybout. No. 1,339,637; May 11; v. 274; p. 260.
Dough-cutter. G. Rapavy. No. 1,343,844; June 15; v. 275; p. 555.
Dough cutting and molding machine. A. Peters. No. 1,337,152; Apr. 13; v. 273; p. 334.
Dough-divider. W. B. Abrams and R. I. Gay. No. 1,352,424; Sept. 14; v. 278; p. 171.
Dough, Dividing. H. Hewitt. No. 1,326,930; Jan. 6; v. 270; p. 9.
Dough-dividing machine. J. E. Pointon. No. 1,363,614; Dec. 28; v. 281; p. 657.
Dough-dropper for frying doughnuts. L. Mitchell. No. 1,345,500; July 6; v. 276; p. 34.
Dough-feeding device. R. E. Baker, E. H. Ford, and L. S. Harber. No. 1,343,184; June 8; v. 275; p. 361.
Dough-forming machine. G. H. Petri. No. 1,355,908; Oct. 19; v. 279; p. 379.
Dough ingredients, Manufacturing. R. L. Corby. No. 1,355,128; Oct. 12; v. 279; p. 187.
Dough, Machine for spacing lumps of. F. H. Van Houten. No. 1,333,886; Mar. 16; v. 272; p. 436.
Dough, Method of and apparatus for mixing. C. J. Patterson. No. 1,334,395; Mar. 23; v. 272; p. 578.
Dough-mixer. W. F. Dehuff. No. 1,329,164; Jan. 27; v. 270; p. 556.
Dough-mixers, Reversible, double-speed, friction and gear drive for. F. X. Lauterbur. No. 1,336,783; Apr. 13; v. 273; p. 264.
Dough mixing and stretching machine. B. D. Pinkney. No. 1,363,434; Dec. 28; v. 281; p. 621.
Dough-mixing machine. F. M. Jones. No. 1,335,737; Apr. 6; v. 273; p. 6.
Dough-molding machine. J. E. Pointon. No. 1,345,631; July 6; v. 276; p. 59.
Dough-molding machines, Attachment for. F. H. Van Houten. No. 1,333,885; Mar. 16; v. 272; p. 435.
Dough-proving apparatus. L. Embrey. No. 1,334,025; Mar. 16; v. 272; p. 463.
Dough-raiser. B. W. Wolters. No. 1,333,525; Mar. 9; v. 272; p. 307.
Dough-scaling machine. P. B. Streich. No. 1,331,130; Feb. 17; v. 271; p. 434.
Doughs, pastes, &c., Apparatus for determining the specific gravity of. L. C. Reese. No. 1,337,410; Apr. 20; v. 273; p. 458.
Doughnut-cooking machine. J. M. Comb and C. E. Peavey. No. 1,333,389; Mar. 9; v. 272; p. 281.
Doughnut-making machine. J. C. Thomson. No. 1,340,805; May 18; v. 274; p. 538.
Doughnuts and other cakes, Machine for forming and cutting. C. M. Wheeler. No. 1,328,025; Jan. 13; v. 270; p. 275.
Doughnuts, cakes, &c., Machine for cutting. A. A. Smith. No. 1,353,077; Sept. 14; v. 278; p. 302.
Dovetailing-machine. O. Onsrud. No. 1,352,620; Sept. 14; v. 278; p. 210.
Dowel-pin. J. T. Gilmer. No. 1,354,549; Oct. 5; v. 279; p. 21.
Downdraft-furnace, Hot-blast. J. J. Smith. No. 1,351,803; Sept. 7; v. 278; p. 17.
Downdraft-heater. L. L. Gorr. No. 1,356,138; Oct. 19; v. 279; p. 425.
Downdraft wet precipitator. A. F. Meston. No. 1,329,844; Feb. 3; v. 271; p. 94.
Draft and buffing gear. J. M. Waugh. No. 1,360,605; Nov. 30; v. 280; p. 885.
Draft appliance. V. N. Lundstrom. No. 1,327,871; Jan. 13; v. 270; p. 246.
Draft appliance. F. J. Trumpour. No. 1,353,094; Sept. 14; v. 278; p. 304.
Draft-arm. J. A. Lamont. No. 1,347,640; July 27; v. 276; p. 634.
Draft-arm. W. N. Oehm. No. 1,353,488; Sept. 21; v. 278; p. 441.
Draft attachment. A. E. Edstrom. No. 1,343,908; June 22; v. 275; p. 632.
Draft attachment. C. E. Hundley. No. 1,363,791; Dec. 28; v. 281; p. 691.
Draft-checking device. A. W. Cordes. No. 1,327,653; Jan. 13; v. 270; p. 205.
Draft connection. E. A. Johnston and C. W. Mott. No. 1,354,654; Oct. 5; v. 279; p. 42.
Draft connection, Flexible. P. R. Janney. No. 1,327,827; Jan. 13; v. 270; p. 238.
Draft connection, Trailer. W. N. Booth. No. 1,327,265; Jan. 6; v. 270; p. 72.
Draft-coupling. J. W. Buller. No. 1,344,482; June 22; v. 275; p. 745.
Draft-creating device. C. Flagstad. No. 1,340,865; May 18; v. 274; p. 549.
Draft-deflector. F. D. Kees. No. 1,359,710; Nov. 23; v. 280; p. 641.
Draft-detaching device. J. Kuncus. No. 1,342,119; June 1; v. 275; p. 99.
Draft device. L. B. Doe. No. 1,336,785; Apr. 13; v. 273; p. 255.
Draft-equalizer. J. L. Beene. No. 1,354,796; Oct. 5; v. 279; p. 70.
Draft-equalizer. T. J. Dudley. No. 1,354,033; Sept. 28; v. 278; p. 594.
Draft-equalizer. F. A. Lyon. No. 1,350,821; Aug. 24; v. 277; p. 695.
Draft-equalizer. D. Windhorst. No. 1,332,701; Mar. 2; v. 272; p. 100.
Draft-equalizer. Z. B. Wheeler. No. 1,334,202; Mar. 16; v. 272; p. 495.
Draft-gage. A. T. Baldwin. No. 1,352,719; Sept. 14; v. 278; p. 231.
Draft-gage. L. Cook. No. 1,361,142; Dec. 7; v. 281; p. 32.
Draft-gear. H. Barnard. No. 1,356,254; Oct. 19; v. 279; p. 448.
Draft-gear. C. S. Cotton. No. 1,360,184; Nov. 23; v. 280; p. 735.
Draft-gear. G. M. Schwend. No. 1,363,360; Dec. 28; v. 281; p. 608.
Draft-gear bracket. J. M. Waugh. No. 1,353,871; Sept. 28; v. 278; p. 562.
Draft-gear, Yoke. C. A. Carscadin and G. A. Woodman. No. 1,356,266; Oct. 19; v. 279; p. 451.
Draft-hook. M. D. Hamrick. No. 1,347,369; July 20; v. 276; p. 524.
Draft-hook. I. H. Montelius. No. 1,346,906; July 20; v. 276; p. 432.
Draft implements, Lifting device for. A. C. Johnson. No. 1,356,770; Oct. 26; v. 279; p. 595.
Draft mechanism. H. E. Doerr. No. 1,353,224; Sept. 21; v. 278; p. 390.
Draft mechanism. J. O. Neikirk. No. 1,337,090; Apr. 13; v. 273; p. 323.
Draft mechanism. E. C. Washburn. No. 1,363,939; Dec. 28; v. 281; p. 720.
Draft-regulating apparatus. J. F. Kendall. No. 1,358,854; Nov. 16; v. 280; p. 429.
Draft-regulating device. W. A. Mitchell. No. 1,337,786; Apr. 20; v. 273; p. 529.
Draft-regulator. J. O. Anderson. No. 1,341,872; June 1; v. 275; p. 51.
Draft-regulator. E. McKiernan. No. 1,352,670; Sept. 14 v. 278; p. 221.
Draft-rigging. P. Brown. No. 1,344,979; June 29; v. 275; p. 905.
Draft-rigging. P. Brown. No. 1,344,980; June 29; v. 275; p. 905.
Draft-rigging. P. Brown. No. 1,344,981; June 29; v. 275; p. 905.
Draft-rigging. E. George, Jr. No. 1,362,691; Dec. 21; v. 281; p. 488.
Draft-rigging. P. E. Holt. No. 1,327,557; Jan. 6; v. 270; p. 126.
Draft-rigging. I. H. Milliken. No. 1,333,271; Mar. 9; v. 272; p. 259.
Draft-rigging. G. E. Outlaw. No. 1,361,543; Dec. 7; v. 281; p. 115.
Draft-rigging. W. J. Regan. No. 1,346,556; July 13; v. 276; p. 304.
Draft-rigging. A. N. Warfield. No. 1,353,101; Sept. 14; v. 278; p. 306.
Draft-rigging. E. F. Mechlin. No. 1,356,081; Oct. 19; v. 279; p. 413.
Draft-rigging. B. W. Kadel. No. 1,358,449; Nov. 9; v. 280; p. 304.
Draft-rigging. D. S. Barrows. No. 1,358,499; Nov. 9; v. 280; p. 314.
Draft-rigging. D. S. Barrows. No. 1,358,502; Nov. 9; v. 280; p. 314.
Draft-rigging attachment. G. C. Murray. No. 1,348,141; July 27; v. 276; p. 734.
Draft-rigging construction. G. C. Murray. No. 1,361,087; Dec. 7; v. 281; p. 21.
Draft-rigging, Friction. J. F. O'Connor. No. 1,361,485; Dec. 7; v. 281; p. 102.
Draft-rigging, Friction. I. O. Wright. No. 1,358,489; Nov. 9; v. 280; p. 312.
Draft-rigging, Friction. J. R. Mitchell. No. 1,355,995; Oct. 19; v. 279; p. 396.
Draft-rigging, Producing yokes for. J. W. Dalman. No. 1,340,528; May 18; v. 274; p. 485.
Draft-rigging, Tandem. G. Q. Lewis. No. 1,340,490; May 18; v. 274; p. 478.
Draft-rigging, Tractor. H. F. Towner and G. Dunton. No. 1,362,154; Dec. 14; v. 281; p. 281.
Drafting and lettering instrument. P. J. Nawn. No. 1,333,034; Mar. 9; v. 272; p. 215.
Drafting-appliance. R. H. Perdue and L. W. Theis. No. 1,351,534; Aug. 31; v. 277; p. 898.
Drafting-board. S. E. Williams. No. 1,347,426; July 20; v. 276; p. 535.

Digitized by Google

Drafting device. L. C. Hahn. No. 1,328,871; Jan. 27; v. 270; p. 501.
Drafting instrument. A. E. Magnuson. No. 1,349,550; Aug. 10; v. 277; p. 329.
Drafting-machine. A. M. Butterfield. No. 1,360,496; Nov. 30; v. 280; p. 864.
Drafting-machine. A. C. La May. No. 1,336,241; Apr. p; v. 273; p. 102.
Draftman's protractor. D. C. Lopez. No. 1,351,527; Aug. 31; v. 277; p. 896.
Drag. C. E. Nelson. No. 1,339,664; May 11; v. 274; p. 266.
Drag. T. H. Rolland. No. 1,331,382; Feb. 17; v. 271; p. 481.
Drag attachment. E. Borgesson. No. 1,329,953; Feb. 3; v. 271; p. 114.
Drag-classifier. B. A. Mitchell. No. 1,354,676; Oct. 5; v. 279; p. 46.
Drag, Ground-mulshing and insect-displacing. O. H. Rosenberg. No. 1,357,905; Nov. 2; v. 280; p. 134.
Drag-lifter. J. Tillmann. No. 1,341,159; May 25; v. 274; p. 677.
Drag, Road-. G. H. Allyn. No. 1,347,485; July 27; v. 276; p. 603.
Drag, Road-. J. C. Karr. No. 1,347,336; July 20; v. 276; p. 517.
Drag, Sheller-. E. J. Gretencord. No. 1,338,727; May 4; v. 274; p. 15.
Drain-board. H. H. Harris. No. 1,327,039; Jan. 6; v. 270; p. 30.
Drain, Ditch-. J. K. Hinson. No. 1,362,419; Dec. 14; v. 281; p. 333.
Drain-tile mold. W. F. Sloan. No. 1,336,867; Apr. 13; v. 273; p. 280.
Drain-trap. W. H. Heidmann. No. 1,363,732; Dec. 28; v. 281; p. 679.
Drains and small sewers, Appliance for the protection and preservation of. D. F. Holman. No. 1,327,278; Jan. 6; v. 270; p. 75.
Drainage-trap. J. A. Johnston. No. 1,363,792; Dec. 28; v. 281; p. 691.
Drainer, Dish-. R. Kline. No. 1,349,771; Aug. 17; v. 277; p. 445.
Drainer, Tableware-. A. Abbott. No. 1,350,351; Aug. 24; v. 277; p. 603.
Drainer, Tubing-. F. Ulrich. No. 1,335,540; Mar. 30; v. 272; p. 853.
Drapery-carrier. W. H. Edsell and F. L. Lathrop. No. 1,329,889; Feb. 3; v. 271; p. 102.
Drapery-clip. B. H. Meyer. No. 1,345,868; July 6; v. 276; p. 106.
Drapery-holder. H. L. Sweney. No. 1,341,684; June 1; v. 275; p. 14.
Drapery-hook. J. W. McGhee. No. 1,334,661; Mar. 23; v. 272; p. 627.
Draw-bar. F. A. Peck and J. E. A. Moore. No. 1,345,399; July 6; v. 276; p. 14.
Draw-bar and dynamometer, Combined. O. M. Hatcher and E. A. Bye. No. 1,361,990; Dec. 14; v. 281; p. 249.
Draw-bar buffer. J. C. Barber. No. 1,341,455; May 25; v. 274; p. 735.
Draw-bar coupling. N. J. Engh. No. 1,362,857; Dec. 21; v. 281; p. 470.
Draw-bar coupling. T. G. Higgins. No. 1,341,556; May 25; v. 274; p. 754.
Draw-bar coupling. L. G. Walker. No. 1,335,211; Mar. 30; v. 272; p. 792.
Draw-bar lifter and holder. A. Grigsby. No. 1,348,491; Aug. 3; v. 277; p. 70.
Draw-bar, Safety. E. J. Brewster and J. Murrin. No. 1,360,877; Nov. 30; v. 280; p. 939.
Draw-bar system, Double. Dikran-Aram. No. 1,360,706; Nov. 30; v. 280; p. 905.
Draw-board fastener. A. Jaeger. No. 1,348,142; July 27; v. 276; p. 734.
Drawer attachment. G. Barchi. No. 1,328,112; Jan. 13; v. 270; p. 292.
Drawer, Card-index. M. B. O'Neil. No. 1,358,389; Nov. 9; v. 280; p. 292.
Drawer construction. A. F. Erickson. No. 1,330,936; Feb. 17; v. 271; p. 398.
Drawer construction. S. F. Long. No. 1,333,263; Mar. 9; v. 272; p. 258.
Drawer, Knockdown sheet-metal. E. J. Jones. No. 1,352,002; Sept. 7; v. 278; p. 57.
Drawer-locking device. J. S. Kramer. No. 1,352,902; Sept. 14; v. 278; p. 267.
Drawer-locking device. S. Osterweil. No. 1,343,742; June 15; v. 275; p. 534.
Drawer or shelf lining. I. S. Cowles. No. 1,327,753; Jan. 13; v. 270; p. 225.
Drawer, Self-locking. J. E. McNamara. No. 1,363,524; Dec. 28; v. 281; p. 639.
Drawer-stabilizer. W. F. Streich. No. 1,352,924; Sept. 14; v. 278; p. 272.
Drawers, shelves, or other sliding structures, Means for simultaneously locking sliding. W. Chipperfield. No. 1,353,453; Sept. 21; v. 278; p. 434.
Drawing appliance. E. C. Poole. No. 1,358,572; Nov. 9; v. 280; p. 328.
Drawing-board. H. de Clercq. No. 1,346,593; July 13; v. 276; p. 311.
Drawing-board. A. J. Haug. No. 1,354,743; Oct. 5; v. 279; p. 59.
Drawing-board. R. Raby. No. 1,330,549; Feb. 10; v. 271; p. 256.
Drawing frames, Adjustable saddle for gill-. W. Holdsworth. No. 1,347,331; July 20; v. 276; p. 516.
Drawing-press. R. S. Smith. No. 1,338,335; Apr. 27; v. 273; p. 703.
Drawing-press. C. S. Smith and A. Ziska. No. 1,356,748; Oct. 26; v. 279; p. 591.
Drawing-protractor. E. L. Micheau. No. 1,342,129; June 1; v. 275; p. 102.
Drawing-table. E. R. Koechlin. No. 1,327,956; Jan. 13; v. 270; p. 262.
Drawing-table. E. R. Koechlin. No. 1,341,088; June 1; v. 275; p. 73.
Drawing-table. M. K. Schauer. No. 1,338,254; Apr. 27; v. 273; p. 687.
Drawings and other records, Method of and material for making. C. H. Little. No. 1,343,978; June 22; v. 275; p. 646.
Dredge or sifter-can. C. Guerilcy. No. 1,357,555; Nov. 2; v. 280; p. 66.
Dredge-tumbler. P. J. Cahill. No. 1,349,408; Aug. 10; v. 277; p. 301.
Dredge tumbler. M. L. Summers. No. 1,352,997; Sept. 14; v. 278; p. 286.
Dredge, Walking-. V. G. Anderson. No. 1,344,571; June 22; v. 275; p. 762.
Dredger. H. Hohman. No. 1,356,624; Oct. 26; v. 279; p. 567.
Dredging by suction, Process and apparatus for. M. Valentin. No. 1,351,979; Sept. 7; v. 278; p. 58.
Dress. L. Borgenicht. No. 1,331,799; Feb. 24; v. 271; p. 580.
Dress goods and method of manufacturing same, Plaited. W. W. Higgons. No. 1,362,698; Dec. 21; v. 281; p. 439.
Dress-hook. J. D. Goss. No. 1,333,483; Mar. 9; v. 272; p. 299.
Dress-marker. L. A. Wheeler. No. 1,338,602; Apr. 27; v. 273; p. 752.
Dress-shield supporter. E. Schrader. No. 1,348,754; Aug. 3; v. 277; p. 120.
Dress-suit case and locker, Combined. T. W. King. No. 1,344,408; June 22; v. 275; p. 729.
Dress-suit-case body-blanks, Machine for cutting and preparing. H. L. Plummer. No. 1,340,558; May 18; v. 274; p. 491.
Dressmaking. H. M. Greist. No. 1,360,287; Nov. 30; v. 280; p. 823.
Drier: *See*—
Briquet-drier.
Centrifugal drier.
Clothes-drier.
Dish-drier.
Fruit-drier.
Fruit-peel drier.
Grain-drier.
Laundry-drier.
Peat-drier.
Printing-press drier.
Rotary drier.
Sand-drier.
Seed-separator electrical drier.
Steam and gas drier.
Drier. B. R. Andrews. No. 1,332,657; Mar. 2; v. 272; p. 92.
Drier. L. R. Christie. No. 1,332,380; Mar. 2; v. 272; p. 40.
Drier. W. B. Hutchinson. No. 1,338,731; May 4; v. 274; p. 15.
Drier. W. H. Kuder. No. 1,363,130; Dec. 21; v. 281; p. 523.
Drier. B. M. Kuhn. No. 1,330,195; Feb. 10; v. 271; p. 191.
Drier. R. C. Newhouse. No. 1,332,137; Feb. 24; v. 271; p. 643.
Drier. W. D. Palen and H. Bogaty. No. 1,345,225; June 29; v. 275; p. 952.
Drier. C. Slattery. No. 1,354,223; Sept. 28; v. 278; p. 633.
Drier. G. L. Spencer. No. 1,348,757; Aug. 3; v. 277; p. 120.
Drier. J. O. Tensfeldt. No. 1,349,590; Aug. 17; v. 277; p. 410.
Drier. S. Waszkiewicz. No. 1,345,523; July 6; v. 276; p. 38.
Drier. F. C. M. Yahn. No. 1,353,080; Sept. 28; v. 278; p. 584.
Drier and evaporator. C. Offenhauser. No. 1,333,871; Mar. 16; v. 272; p. 433.
Drier-carrier. F. L. Furbush. No. 1,337,351; Apr. 20; v. 273; p. 447.
Drier for clay or ceramic products. I. M. Justice. No. 1,360,645; Nov. 30; v. 280; p. 894.
Driers, Apron for. F. G. Sargent. No. 1,357,256; Nov. 2; v. 280; p. 11.
Driers, Conveying means for. E. B. Ayres and W. H. Rihl. No. 1,358,497; Nov. 9; v. 280; p. 313.
Driers, Rotary. A. O. Hurxthal. No. 1,339,260; May 4; v. 274; p. 112.
Dry battery. F. P. Beaumann. (Reissue.) No. 14,929; Aug. 17; v. 277; p. 544.
Dry battery. C. Ellis and A. A. Wells. No. 1,355,899; Oct. 19; v. 279; p. 378.
Dry battery. W. H. Sheahan. No. 1,359,201; Nov. 16; v. 280; p. 494.
Dry battery. S. Yai. No. 1,328,027; Jan. 13; v. 270; p. 276.

Digitized by Google

Dry cell. C. W. Hazelett. No. 1,331,761; Feb. 24; v. 271; p. 573.
Dry cell. C. W. Hazelett. No. 1,331,762; Feb. 24; v. 271; p. 573.
Dry cell. C. W. Hazelett. No. 1,331,763; Feb. 24; v. 271; p. 573.
Dry cell. W. B. Schulte. No. 1,342,001: June 1; v. 275; p. 76.
Dry-cell tamper. M. A. Foos. No. 1,329,965; Feb. 3; v. 271; p. 116.
Dry concentrator. P. F. Johnson and A. L. Firpo. No. 1,333,922; Mar. 16; v. 272; p. 442.
Dry-dock, Floating. F. Straud y Ximénez. No. 1,333,580; Mar. 9; v. 272; p. 318.
Dry-kiln. O. W. Degen. No. 1,332,164; Feb. 24; v. 271; p. 648.
Dry separator. F. M. Smith. No. 1,346,610; July 13; v. 276; p. 315.
Drying apparatus. T. Allsop and W. W. Sibson. No. 1,355,117; Oct. 12; v. 279; p. 185.
Drying apparatus. F. V. Burman. No. 1,336,422; Apr. 13; v. 273; p. 195.
Drying apparatus. F. J. Dow. No. 1,347,473; July 20; v. 276; p. 544.
Drying apparatus. S. H. Melhuizen. No. 1,344,241; June 22; v. 275; p. 696.
Drying apparatus. F. and N. Patrono. No. 1,339,131; May 4; v. 274; p. 91.
Drying apparatus. W. H. Perry. No 1,363,431; Dec. 28; v. 281; p. 621.
Drying apparatus. H. Wettig. No. 1,359,301; Nov. 16; v. 280; p. 514.
Drying-conveyers, Mechanism for ejecting boxes from. J. C. Donnelly. No. 1,357,387; Nov. 2; v. 280; p. 36.
Drying-frame. M. Teske. No. 1,331,886; Feb. 24; v. 271; p. 597.
Drying goods in layers, Apparatus for. A. Hofmann. No. 1,344,893; June 29; v. 275; p. 889.
Drying-kiln. C. A. Cutler. No. 1,341,884; June 1; v. 275; p. 53.
Drying-machine. T. Allsop and W. W. Sibson. No. 1,360,705; Nov. 30; v. 280; p. 905.
Drying-machine. D. D. Irwin. No. 1,329,082; Jan. 27; v. 270; p. 540.
Drying-machine. M. F. Mangelsdorff. No. 1,355,238; Oct. 12; v. 279; p. 209.
Drying-machine. J. L. Pierce. No. 1,356,469; Oct. 19; v. 279; p. 490.
Drying-machine fan. W. M. Schwartz and E. B. Ayres. No. 1,351,696; Aug. 31; v. 277; p. 929.
Drying-machines, Bearing for the cylinders of. W. Mycock. No. 1,342,131; June 1; v. 275; p. 102.
Drying material, Method of and apparatus for. O. D. Rice. No. 1,328,897; Jan. 27; v. 270; p. 506.
Drying materials. H. B. Lowden. No. 1,339,771; May 11; v. 274; p. 286.
Drying, mixing, and kneading machine. W. N. Hartshorn. No. 1,345,542; July 6; v. 276; p. 43.
Drying or cooling apparatus. P. Steenfeldt-Lindholm. No. 1,353,358; Sept. 21; v. 278; p. 416.
Drying plant. P. Barducci. No. 1,344,163; June 22; v. 275; p. 681.
Drying process and apparatus. F. P. Boland. No. 1,332,706; Mar. 2; v. 272; p. 101.
Drying process and apparatus therefor. C. Field. No. 1,358,431; Nov. 9; v. 280; p. 301.
Drying-room. J. F. Reeder. No. 1,335,702; Mar. 30; v. 272; p. 884.
Drying solids. R. W. G. Stutzke. No. 1,329,813; Feb. 3; v. 271; p. 87.
Drying solutions. C. L. Dean. No. 1,350,072; Aug. 17; v. 277; p. 503.
Drying-tumbler. F. M. Watkins. No. 1,355,293; Oct. 12; v. 279; p. 220.
Drift-bar. F. H. Colvin No. 1,344,619; June 29; v. 275; p. 837.
Drill: *See*—

Air-drill.	Mining-drill.
Boring-drill.	Multiple drill.
Breast-drill.	Percussion-drill.
Cigar-drill.	Pneumatic drill.
Dental drill.	Portable drill.
Electric drill.	Power-drill.
Expanding drill.	Rock-drill.
Grain-drill.	Rotary drill.
Hand-drill.	Seed-drill.
Mine-drill.	Rotary reciprocating drill.

Drill. H. Bernay. No. 1,355,793; Oct. 12; v. 279; p. 316.
Drill. H. Bernay. No. 1,359,318; Nov. 16; v. 280; p. 518.
Drill. H. Berney. No. 1,359,955; Nov. 23; v. 280; p. 690.
Drill. J. J. Farrell. No. 1,331,189; Feb. 17; v. 271; p. 445.
Drill. A. L. Hawkesworth. No. 1,328,325; Jan. 20; v. 270; p. 369.
Drill. M. Hoffman and P. Jopling. No. 1,331,458; Feb. 17; v. 271; p. 495.
Drill. H. J. Jansen. No. 1,332,841; Mar. 2; v. 272; p. 127.
Drill. R. D. Maddox. No. 1,343,180; June 8; v. 275; p. 360.
Drill. S. G. Salmon. No. 1,330,451; Feb. 10; v. 271; p. 238.
Drill. J. C. Stokes. No. 1,360,328; Nov. 30; v. 280; p. 831.
Drill. F. R. Weathersby. No. 1,336,006; Apr. 6; v. 273; p. 57.
Drill and wire gage. R. Ichiba. No. 1,342,288; June 1; v. 275; p. 132.
Drill attachment. W. E. Moulton. No. 1,333,559; Mar. 9; v. 272; p. 314.
Drill-bit. F. L. Clements, Jr. No. 1,332,105; Feb. 24; v. 271; p. 638.
Drill-bit. A. M. Gleason. No. 1,360,209; Nov. 23; v. 280; p. 740.
Drill-bit. W. J. Holland. No. 1,345,854; July 6; v. 276; p. 103.
Drill-bit. G. A. Humason. No. 1,337,913; Apr. 20; v. 273; p. 553.
Drill-bit. P. G. Midgett. No. 1,344,425; June 22; v. 275; p. 733.
Drill-bit, Cross-roller. H. R. Hughes. No. 1,348,419; Aug. 3; v. 277; p. 57.
Drill bit, Rotary rock-. R. O. Pickin. No. 1,334,632; Mar. 23; v. 272; p. 622.
Drill, broadcaster, and other sowing implements. C. Bristow. No. 1,330,838; Feb. 17; v. 271; p. 378.
Drill-cutting machine. S. F. Gierymski. No. 1,360,389; Nov. 30; v. 280; p. 843.
Drill-feeding means. F. M. Slater. No. 1,361,632; Dec. 7; v. 281; p. 131.
Drill-gage. L. B. Webster. No. 1,357,753; Nov. 2; v. 280; p. 105.
Drill-head, Rotary. H. G. Johnston. No. 1,348,117; July 27; v. 276; p. 729.
Drill-holder. J. Koranek. No. 1,362,012; Dec. 14; v. 281; p. 254.
Drill-jig. H. J. Hauser. No. 1,329,970; Feb. 3; v. 271; p. 117.
Drill-lubricating device, Gang-. A. Hill. No. 1,329,663; Feb. 3; v. 271; p. 59.
Drill-machine. E. J. Lees. No. 1,339,461; May 11; v. 274; p. 226.
Drill-mounting. R. L. Ambrose. No. 1,345,731; July 6; v. 276; p. 79.
Drill, Mounting for. W. A. Smith. No. 1,358,889; Nov. 16; v. 280; p. 437.
Drill-press. A. C. Mason. No. 1,330,130; Feb. 10; v. 271; p. 179.
Drill-press, Portable. M. J. Bradley. No. 1,335,154; Mar. 30; v. 272; p. 782.
Drill-press table and vise, Combination. G. H. Cocks. No. 1,341,841; June 1; v. 275; p. 45.
Drill-presses, Oiler for. C. H. Woolson. No. 1,337,682; Apr. 20; v. 273; p. 509.
Drill-retriever. J. D. Brandon. No. 1,352,172; Sept. 7; v. 278; p. 88.
Drill-stand. E. C. Fritch. No. 1,357,041; Oct. 26; v. 279; p. 648.
Drill-steel retainer. L. C. Bayles. No. 1,355,806; Oct. 19; v. 279; p. 359.
Drill-stem. R. L. Burns. No. 1,344,221; June 22; v. 275; p. 693.
Drill tightening and loosening jack. S. La Point. No. 1,358,319; Nov. 9; v. 280; p. 277.
Drill wrench, Well-. W. H. Ellinger. No. 1,327,379; Jan. 6; v. 270; p. 93.
Drills, Adjustable arm for multispindle. W. F. Bockhoff. No. 1,360,081; Nov. 23; v. 280; p. 714.
Drills, Attachment for stoping-. M. R. Valentine and W. S. Bruner. No. 1,359,935; Nov. 23; v. 280; p. 686.
Drills, Blower attachment for. R. Borcherdt. No. 1,341,536; May 25; v. 274; p. 750.
Drills, Dust-conveyer for. P. J. Ayotte. No. 1,334,430; Mar. 23; v. 272; p. 585.
Drills, holders-on, and other appliances, Throttle-valve handle for. L. Sykes. No. 1,339,426; May 11; v. 274; p. 219.
Drills, Machine for forming grooves or flutes in twist-. I. H. Wright. No. 1,346,928; July 20; v. 276; p. 437.
Drills, machine for making twist-. R. H. Deschauer. No. 1,341,636; June 1; v. 275; p. 4.
Drills, Mounting for rock-. W. A. Smith. No. 1,347,185; July 20; v. 276; p. 486.
Drills, Regulating the load on rotary. H. R. Hughes. No. 1,357,564; Nov. 2; v. 280; p. 68.
Drills, Seed-disk for. J. G. Alexander. No. 1,330,365; Feb. 10; v. 271; p. 222.
Drills, Support for hammer-machine. J. H. Cocks. No. 1,349,047; Aug. 10; v. 277; p. 230.
Drills, Swivel for rotary. G. A. Humason. No. 1,354,756; Oct. 5; v. 279; p. 61.
Drills, Worm-gear construction for rotary. P. Yungling. No. 1,345,110; June 29; v. 275; p. 930.
Drilling and oil-well apparatus. R. R. Pollak. No. 1,347,587; July 27; v. 276; p. 624.
Drilling and reaming and countersinking, Apparatus for. O. F. Baltsley. Nos. 1,362,913–15; Dec. 21; v. 281; p. 481.
Drilling apparatus. W. A. Smith. No. 1,345,271; June 29; v. 275; p. 962.
Drilling, Combination-rig for. J. A. Morrison. No. 1,327,403; Jan. 6; v. 270; p. 97.
Drilling-bit. T. C. Buddington. No. 1,347,774; July 27; v. 276; p. 661.

Digitized by Google

Drilling-bit. G. Nymanning. No. 1,351,262; Aug. 31; v. 277; p. 843.
Drilling bit, Well-. P. G. Midgett. No. 1,346,133; July 13; v. 276; p. 221.
Drilling-braces, Attachment to carpenters' and similar hand. P. J. Le Sueur. No. 1,344,910; June 29; v. 275; p. 893.
Drilling device. H. F. Blackwell. No. 1,350,059; Aug. 17; v. 277; p. 500.
Drilling device. W. P. Bovard. No. 1,341,292; May 25; v. 274; p. 702.
Drilling-gage, Vernier. E. Moulds. No. 1,335,847; Mar. 30; v. 272; p. 817.
Drilling-machine. R. Beard. No. 1,354,015; Sept. 28; v. 278; p. 591.
Drilling-machine. W. R. Brown. No. 1,347,614; July 27; v. 276; p. 629.
Drilling-machine. A. Dom. No. 1,347,214; July 20; v. 276; p. 492.
Drilling-machine. W. T. Sears. No. 1,339,044; May 4; v. 274; p. 73.
Drilling-machine. W. T. Sears. No. 1,358,025; Nov. 9; v. 280; p. 219.
Drilling-machine, Radial-arm. J. Jewsbury. No. 1,354,488; Oct. 5; v. 279; p. 8.
Drilling-machine, Rotary. L. J. Black. No. 1,341,410; May 25; v. 274; p. 726.
Drilling-machine, Rotary. L. J. Black. No. 1,341,702; June 1; v. 275; p. 18.
Drilling-machine, Rotary. C. S. Wright. No. 1,347,771; July 27; v. 276; p. 661.
Drilling machinery. A. M. Sosa. No. 1,338,752; May 4; v. 274; p. 19.
Drilling-machines, Counterbalancing mechanism for. W. T. Sears. No. 1,329,726; Feb. 3; v. 271; p. 71.
Drilling-machines, Motor attachment for. F. Jones. No. 1,330,190; Feb. 10; v. 271; p. 190.
Drilling-machines, Saddle and head supporting mechanism for. W. T. Sears. No. 1,350,525; Aug. 24; v. 277; p. 638.
Drilling-machines, Spring attachment for. A. P. Schmidt. No. 1,359,845; Nov. 23; v. 280; p. 667.
Drilling non-circular holes, Apparatus for. K. G. Walker. No. 1,359,129; Nov. 16; v. 280; p. 481.
Drilling, reaming, and countersinking, Apparatus for. O. F. Baltzley. No. 1,352,646; Sept. 14; v. 135; p. 216.
Drilling, riveting, and like machine. C. Jackson. No. 1,338,019; Apr. 27; v. 273; p. 643.
Drilling-tools, Apparatus for dislodging. H. G. Welsh. No. 1,345,299; June 29; v. 275; p. 968.
Drilling-tools, Lock-joint for. F. M. Haynes. No. 1,355,144; Oct. 12; v. 279; p. 190.
Drink-dispensing apparatus. C. C. Gates. No. 1,359,050; Nov. 16; v. 280; p. 467.
Drink-mixer. J. V. Buckle. No. 1,340,849; May 18; v. 274; p. 546.
Drink mixer and dispenser. A. E. Holmes. No. 1,348,222; Aug. 3; v. 277; p. 18
Drink-mixing device. H. C. Schlicker. No. 1,344,565; June 22; v. 275; p. 761.
Drink-serving apparatus, Sanitary bottled-. J. H. Carroll. No. 1,359,328; Nov. 16; v. 280; p. 520.
Drinks, Producing soft. A. L. Straus. No. 1,337,027; Apr. 13; v. 273; p. 311.
Drinking-cup. B. B. Avery. No. 1,341,831; June 1; v. 275; p. 43.
Drinking-cup. A. P. Stubbs. No. 1,355,866; Oct. 19; v. 279; p. 371.
Drinking-cup and manufacturing such cups, Sanitary. B. B. Avery and A. Nelson. No. 1,341,835; June 1; v. 275; p. 44.
Drinking-cups, Dispensing-cabinet for paper. W. E. Swift. No. 1,333,045; Mar. 9; v. 272; p. 217.
Drinking-cup fixture. C. Errett. No. 1,343,965; June 22; v. 275; p. 643.
Drinking-cup package. C. E. Erickson. No. 1,354,810; Oct. 5; v. 279; p. 73.
Drinking-cup, Pocket. S. M. Mayer. 1,356,995; Oct. 26; v. 279; p. 640.
Drinking-cup, Stock. B. A. Belling. No. 1,344,750; June 29; v. 275; p. 862.
Drinking-cups, Former for manufacturing sanitary. A. Nelson and B. B. Avery. No. 1,341,833; June 1; v. 275; p. 43.
Drinking-cups, Machine for manufacturing and vending sanitary. A. Nelson and B. B. Avery. No. 1,341,836; June 1; v. 275; p. 44.
Drinking-cups, Making. A. Nelson and B. B. Avery. No. 1,341,834; June 1; v. 275; p. 44.
Drinking-cups, Manufacturing sanitary. B. B. Avery and A. Nelson. No. 1,341,832; June 1; v. 275; p. 43.
Drinking-fount, Temperate. F. M. Holmes. No. 1,357,868; Nov. 2; v. 280; p. 127.
Drinking-fountain. E. F. Bowman. No. 1,337,637; Apr. 20; v. 273; p. 500.
Drinking-fountain. S. R. Curtis. No. 1,346,006; July 6; v. 276; p. 134.
Drinking-fountain. W. Doucette. No. 1,336,401; Apr. 6; v. 273; p. 131.
Drinking-fountain. N. F. Green and J. Peterka. No. 1,346,122; July 13; v. 276; p. 219.
Drinking-fountain. G. Hoffner. No. 1,332,554; Mar. 2; v. 272; p. 73.
Drinking-fountain. F. T. Lyman and F. J. Klimm. No. 1,349,775; Aug. 17; v. 277; p. 446.
Drinking-fountain and faucet, Combination. A. B. Nafziger. No. 1,346,047; July 6; v. 276; p. 142.
Drinking-fountain and feeder for poultry. S. B. Wenger. No. 1,347,425; July 20; v. 276; p. 535.
Drinking-fountain, Automatic. L. H. Solomon. No. 1,354,349; Sept. 28; v. 278; p. 659.
Drinking-fountain, Sanitary. J. C. Armstrong. No. 1,357,436; Nov. 2; v. 280; p. 45.
Drinking-fountain, Sanitary. J. A. Benson. No. 1,360,260; Nov. 30; v. 280; p. 818.
Drinking-fountain, Sanitary. G. R. Pratt. No. 1,354,064; Sept. 28; v. 278; p. 601.
Drinking utensil. N. B. Gallegullos. No. 1,340,886; May 25; v. 274; p. 624.
Drip-board. J. A. Winkler. No. 1,330,564; Feb. 10; v. 271; p. 259.
Drip device. W. H. Grover. No. 1,339,195; May 4; v. 274; p. 101.
Drip-preventer. G. S. Marston. No. 1,351,258; Aug. 31; v. 277; p. 842.
Drive and steering mechanism, Differential. J. P. Blom. No. 1,362,076; Dec. 14; v. 281; p. 266.
Drive for machinery. G. M. Anderson. No. 1,355,522; Oct. 12; v. 279; p. 265.
Drive-gate. J. W. Horne. No. 1,363,737; Dec. 28; v. 281; p. 680.
Drive means, Resilient. C. Bearens. No. 1,360,867; Nov. 30; v. 280; p. 937.
Drive mechanism. C. E. Sayre. No. 1,360,691; Nov. 30; v. 280; p. 902.
Drive mechanism, Differential-. A. Winther. No. 1,351,084; Aug. 31; v. 277; p. 808.
Drive mechanism, Spring. A. C. Zwarich. No. 1,355,585; Oct. 12; v. 279; p. 277.
Drive of machines, Device for controlling the. R. Leumann. No. 1,332,443; Mar. 2; v. 272; p. 52.
Drive-ring. H. W. Pleister. No. 1,331,524; Feb. 24; v. 271; p. 528.
Drive, Two-wheel. H. Lave. No. 1,349,212; Aug. 10; v. 277; p. 262.
Driving and reversing mechanism. A. C. Johnson. No. 1,333,176; Mar. 9; v. 272; p. 242.
Driving and steering wheel. W. J. Evans and F. M. Scott. No. 1,330,690; Feb. 10; v. 271; p. 283.
Driving and stopping mechanism. J. Kiewicz. No. 1,344,845; June 22; v. 275; p. 717.
Driving and stopping mechanism. W. C. Meyer. No. 1,355,159; Oct. 12; v. 279; p. 193.
Driving-band. H. A. S. Read. No. 1,339,287; May 4; v. 274; p. 117.
Driving-box lubricator, Locomotive-. J. A. Bowles. No. 1,327,136; Jan. 6; v. 270; p. 48.
Driving club or mashie. A. S. Swanson. No. 1,334,189; Mar. 16; v. 272; p. 492.
Driving connection. J. B. French. No. 1,332,823; Mar. 2; v. 272; p. 124.
Driving connection. G. L. S. Kronfeld. No. 1,347,907; July 27; v. 276; p. 687.
Driving-gear, Automobile. M. C. Sharpnack and C. A. Crisman. No. 1,349,695; Aug. 17; v. 277; p. 431.
Driving mechanism. A. Benson. No. 1,337,634; Apr. 20; v. 273; p. 500.
Driving mechanism. H. R. Davies. No. 1,330,848; Feb. 17; v. 271; p. 380.
Driving mechanism. H. E. Heath. No. 1,351,999; Sept. 7; v. 278; p. 57.
Driving mechanism. T. C. Prouty. No. 1,334,713; Mar. 23; v. 272; p. 637.
Driving mechanism, Variable-speed hand-. A. Barr and W. Stroud. No. 1,348,690; Aug. 3; v. 277; p. 108.
Driving or stopping mechanism. F. Ashworth. No. 1,337,992; Apr. 27; v. 273; p. 638.
Driving-pulleys, Means to change the speed of. W. Dorion. No. 1,353,153; Sept. 21; v. 278; p. 376.
Driving systems, Automatic controlling apparatus for. H. Pieper. No. 1,340,249; May 18; v. 274; p. 433.
Driveways, Slab or brick for. G. V. Kondolf. No. 1,339,356; May 4; v. 274; p. 130.
Drop-light bracket. A. L. McNaughton. No. 1,357,295; Nov. 2; v. 280; p. 18.
Dropper: *See*—
Bomb-dropper.
Drum. R. C. Danly. No. 1,356,193; Oct. 19; v. 279; p. 436.
Drum. J. Limoncello. No. 1,349,840; Aug. 17; v. 277; p. 458.
Drum. H. G. Stathopoulos. No. 1,362,271; Dec. 14; v. 281; p. 305.
Drum-beater. G. A. Smith. No. 1,343,163; June 8; v. 275; p. 357.
Drum-beater. G. A. Smith. No. 1,343,164; June 8; v. 275; p. 358.
Drum-beater and cymbal-sounder, Pedal-operated. R. C. Scheurer. No. 1,360,031; Nov. 23; v. 280; p. 705.
Drum-filter wiring. E. S. Pettis. No. 1,327,962; Jan. 13; v. 270; p. 263.
Drum for motor-pontoons, Buoyant. C. J. Du Mond. No. 1,360,101; Nov. 23; v. 280; p. 719.
Drum, Grease-. H. A. Searle. No. 1,328,768; Jan. 20; v. 270; p. 452.
Drum, Multiplex-sheave. J. N. Schiff. No. 1,340,297; May 18; v. 274; p. 442.

Digitized by Google

Alphabetical list of inventions—Continued.

Drum, Practice-. H. A. Bower. No. 1,346,588; July 13; v. 276; p. 310.
Drum, Pulling-. C. C. Bagnell. No. 1,351,887; Sept. 7; v. 278; p. 35.
Drum-tension bracket. C. B. Wanamaker. No. 1,334,334; Mar. 23; v. 272; p. 566.
Drum tightening-ear. C. S. Walton. No. 1,335,867; Apr. 6; v. 273; p. 30.
Drum-valve. C. L. Bastian. No. 1,349,748; Aug. 17; v. 277; p. 441.
Drum-winding machine. B. D. Coppage. No. 1,342,532; June 8; v. 275; p. 232.
Drums, Door-locks for revolving. R. F. Settlage. No. 1,346,263; July 13; v. 276; p. 247.
Drums, Means for lifting burner-. J. S. Brennan. No. 1,327,857; Jan. 13; v. 270; p. 244.
Drums, Snare-tensioning device for. R. C. Danly. No. 1,354,028; Sept. 28; v. 278; p. 593.
Drums, Suspension-equalizing device for revolving. J. Stadler. No. 1,351,497; Aug. 31; v. 277; p. 890.
Drumhead. W. C. Ziegenfus. No. 1,334,343; Mar. 23; v. 272; p. 568.
Drummer's-trap support. J. A. Meyer. No. 1,330,814; Feb. 17; v. 271; p. 374.
Dual-tired wheel. E. K. Baker. No. 1,327,607; Jan. 13; v. 270; p. 197.
Dump-body. P. M. Reynolds and A. R. Boling. No. 1,362,819; Dec. 21; v. 281; p. 468.
Dump-car. R. Butcher No. 1,363,562; Dec. 28; v. 281; p. 647.
Dumping apparatus. A. Lovell. No. 1,360,124; Nov. 23; v. 280; p. 723.
Dumping apparatus. C. S. Williamson and W. H. Hazard. No. 1,360,607; Nov. 30; v. 280; p. 886.
Dumping-bed device. B. J. Synstelien. No. 1,330,015; Feb. 3; v. 271; p. 125.
Duplex board. B. K. Ford. No. 1,345,081; June 29; v. 275; p. 924.
Dumping device. G. A. Hinricher. No. 1,362,534; Dec. 14; v. 281; p. 355.
Dumping device. W. F. Lawes. No. 1,328,928; Jan. 27; v. 270; p. 512.
Dumping mechanism. J. C. Bonner. No. 1,333,289; Mar. 9; v. 272; p. 263.
Duplex tube. F. H. Stegath. No. 1,363,064; Dec. 21; v. 281; p. 510.
Duplicating-machine. H. Cohn. No. 1,342,530; June 8; v. 275; p. 232.
Duplicating, manifolding, and the like. D. Gestetner. No. 1,354,478; Oct. 5; v. 279; p. 6.
Duplicator. O. Hidalgo. No. 1,347,743; July 27; v. 276; p. 655.
Dust and lint collecting system. S. J. B. Whited. No. 1,336,007; Apr. 6; v. 273; p. 57.
Dust-cap. H. P. Kraft. No. 1,357,500; Nov. 2; v. 280; p. 56.
Dust-collecting receptacle. A. C. Frank. No. 1,356,061; Oct. 19; v. 279; p. 409.
Dust-collecting system and apparatus therefor, Pneumatic. J. Wilsmore. No. 1,349,480; Aug. 10; v. 277; p. 315.
Dust-collector. R. L. Bobbitt. No. 1,354,878; Oct. 5; v. 279; p. 86.
Dust-collector. N. C. Fetters and C. R. Richards. No. 1,363,860; Dec. 28; v. 281; p. 705.
Dust-collector. C. E. Holland. No. 1,354,483; Oct. 5; v. 279; p. 7.
Dust-collector. E. R. Hopkins. No. 1,341,129; May 25; v. 274; p. 671.
Dust-collector. C. B. Peck. No. 1,344,146; June 22; v. 275; p. 678.
Dust-collector. H. M. Plaisted. No. 1,356,086; Oct. 19; v. 279; p. 415.
Dust-collector. J. F. Sims. No. 1,353,431; Sept. 21; v. 278; p. 430.
Dust-collector for cleaning apparatus. W. W. Farnsworth. No. 1,357,390; Nov. 2; v. 280; p. 36.
Dust-guard R. F. Darby. No. 1,356,046; Oct. 19; v. 279; p. 406.
Dust-guard, Journal. W. S. Trowbridge. No. 1,350,429; Aug. 24; v. 277; p. 619.
Dust-separator. H. Hill and J. B. Dyer. No. 1,339,757; May 11; v. 274; p. 283.
Dust-separator. H. Milliken. No. 1,344,055; June 22; v. 275; p. 661.
Dust-separator. C. A. Xardell. No. 1,328,642; Jan. 20; v. 270; p. 429.
Duster, Dustless. F. H. McGregory. No. 1,344,545; June 22; v. 275; p. 757.
Dusting and deodorizing machine. L. E. Masheck. No. 1,344,551; June 22; v. 275; p. 758.
Dustpan. C. A. Hazen. No. 1,346,958; July 20; v. 276; p. 443.
Dustpan. J. M. Lund and H. Anderson. No. 1,349,165; Aug. 10; v. 277; p. 253.
Dustpan. F. J. Morris. No. 1,346,380; July 13; v. 276; p. 269.
Dustpan. H. L. Sperling. No. 1,355,577; Oct. 12; v. 279; p. 275.
Dye and manufacturing same, Blue sulfur. L. A. F. Haas. No. 1,329,898; Feb. 3; v. 271; p. 104.
Dye and producing same, Alkali proof. L. C. Cates. No. 1,349,265; Aug. 10; v. 277; p. 273.
Dye base, Preparing. A. M. Hart. No. 1,362,879; Dec. 21; v. 281; p. 474.
Dye compound. W. J. Miller. No. 1,358,456; Nov. 9; v. 280; p. 306.
Dye recovery. E. J. Wall. No. 1,337,673; Apr. 20; v. 273; p. 507.
Dye-stick. W. V. Foley. No. 1,337,009; Apr. 13; v. 273; p. 308.
Dyes effective for infra-red radiation, Making photosensitizing-. E. Q. Adams and L. E. Wise. No. 1,338,349; Apr. 27; v. 273; p. 706.
Dyes of the isocyanin type, Making photographic sensitizing-. L. E. Wise and E. Q. Adams. No. 1,338,346; Apr. 27; v. 273; p. 705.
Dyes of the magenta type, Producing. J. L. Kane. No. 1,355,048; Oct. 5; v. 279; p. 119.
Dyeing. C. S. Althouse. No. 1,349,867; Aug. 17; v. 277; p. 464.
Dyeing and preserving fabrics. C. L. Cole. No. 1,361,139; Dec. 7; v. 281; p. 31.
Dyeing, bleaching, or like treatment of cops, Apparatus for. W. Resch. No. 1,335,459; Mar. 30; v. 272; p. 838.
Dyeing device. H. M. Dudley. No. 1,327,661; Jan. 13; v. 270; p. 207.
Dyeing device. H. M. Dudley. No. 1,331,744; Feb. 24; v. 271; p. 570.
Dyeing fibers and fiber products, and dyestuffs and product resulting therefrom, Process and apparatus for the electrical treatment in. J. E. Bloom. No. 1,333,700; Mar. 16; v. 272; p. 401.
Dyeing fur-skins, Machine for. M. Dickerson. No. 1,343,355; June 15; v. 275; p. 458.
Dyeing-machine. W. A. Ainsworth. No. 1,348,974; Aug. 10; v. 277; p. 215.
Dyeing-machine. F. L. Bickel. No. 1,344,788; June 29; v. 275; p. 870.
Dyeing-machine. H. M. Dudley. No. 1,327,200; Jan. 6; v. 270; p. 60.
Dyeing-machine. H. M. Dudley. No. 1,327,658; Jan. 30; v. 270; p. 206.
Dyeing-machine. H. M. Dudley. No. 1,327,660; Jan. 13; v. 270; p. 207.
Dyeing-machine. H. M. Dudley. No. 1,327,662; Jan. 13; v. 270; p. 207.
Dyeing-machine. H. M. Dudley. No. 1,332,488; Mar. 2; v. 272; p. 60.
Dyeing-machine. H. M. Dudley. No. 1,332,489; Mar. 2; v. 272; p. 60.
Dyeing-machine. H. M. Dudley. No. 1,334,526; Mar. 23; v. 272; p. 602.
Dyeing-machine. H. M. Dudley. No. 1,338,217; Apr. 27; v. 273; p. 681.
Dyeing-machine. H. M. Dudley. No. 1,338,218; Apr. 27; v. 273; p. 681.
Dyeing-machine. H. M. Dudley. No. 1,342,711; June 8; v. 275; p. 267.
Dyeing-machine. H. M. Dudley. No. 1,359,043; Nov. 16; v. 280; p. 465.
Dying-machine. J. A. Firsching. No. 1,356,059; Oct. 19; v. 279; p. 409.
Dyeing-machine. W. J. Going. No. 1,343,326; June 15; v. 275; p. 439.
Dyeing-machine. E. Schnurrenberger. No. 1,350,740; Aug. 24; v. 277; p. 680.
Dyeing machine, Hosiery-. H. M. Dudley. No. 1,327,756; Jan. 13; v. 270; p. 225.
Dyeing machine, Hosiery-. H. M. Dudley. No. 1,330,246; Feb. 10; v. 271; p. 200.
Dyeing machine, Hosiery-. H. M. Dudley. No. 1,334,527; Mar. 23; v. 272; p. 602.
Dyeing machine, Skein-. H. M. Dudley. No. 1,327,657; Jan. 13; v. 270; p. 206.
Dyeing machine, Hosiery-. H. M. Dudley. No. 1,344,120; June 22; v. 275; p. 673.
Dyeing machine, Hosiery-. H. M. Dudley. No. 1,344,121; June 22; v. 275; p. 673.
Dyeing of furs and the products resulting therefrom, Electrical process and apparatus for the. J. E. Bloom. No. 1,338,353; Apr. 27; v. 273; p. 706.
Dyeing or similarly treating textiles. E. S. Graves. No. 1,348,167; Aug. 3; v. 277; p. 7.
Dyeing raw silk. E. L. Maupai. No. 1,352,014; Sept. 7; v. 278; p. 59.
Dyeing raw fibrous stock. P. MacIntyre. No. 1,355,797; Oct. 12; v. 279; p. 317.
Dyer, Yarn-. A. Krasa. No. 1,328,435; Jan. 20; v. 270; p. 389.
Dyes and making same, Azo. R. Taggesell. No. 1,327,688; Jan. 13; v. 270; p. 213.
Dyes, Production of azo. J. L. Kane. No. 1,333,807; Mar. 16; v. 272; p. 421.
Dyestuff and making same. A. Angel. No. 1,340,696; May 18; v. 274; p. 518.
Dyestuff and making same. A. S. Wheeler. No. 1,327,260; Jan. 6; v. 270; p. 71.
Dyestuff, Sulfur. M. Wyler. No. 1,358,490; Nov. 9; v. 280; p. 312.
Dyestuffs, Acid wool. G. de Montmollin. No. 1,359,969; Nov. 23; v. 280; p. 693.
Dyestuffs capable of being diazotized and making same. A. Schedler. No. 1,342,134; June 1; v. 275; p. 103.

Digitized by Google

Dynamic balances, Method of and apparatus for testing for. N. W. Akimoff. No. 1,343,954; June 22; v. 275; p. 641.
Dynamo, Continuous-current. F. Kesselring. No. 1,346,213; July 13; v. 276; p. 236.
Dynamo-electric machine. S. R. Bergman. No. 1,334,831; Mar. 23; v. 272; p. 660.
Dynamo-electric machine. H. H. Gordon. No. 1,330,021; Feb. 3; v. 271; p. 126.
Dynamo-electric machine. C. E. Wilson and L. O. Parker. No. 1,363,630; Dec. 28; v. 281; p. 660.
Dynamo-electric machine. J. L. M. Yardley. No. 1,339,910; May 11; v. 274; p. 312.
Dynamo-electric machines, Barrier or arc-deflector for. J. L. Burnham. No. 1,331,897; Feb. 24; v. 271; p. 599.
Dynamo-electric machine, Variable-frequency. A. H. Neuland. No. 1,334,502; Mar. 23; v. 272; p. 598.
Dynamo-electric machines, Apparatus for the control of. W. Brooke. No. 1,363,638; Dec. 28; v. 281; p. 661.
Dynamo-electric machines, Barrier or arc-deflector for. J. J. Linebaugh. No. 1,331,936; Feb. 24; v. 271; p. 606.
Dynamo for lighting and motor ignition. E. F. Girardeau. No. 1,346,821; July 20; v. 276; p. 415.
Dynamo-mounting. C. Hartmann. No. 1,344,945; June 29; v. 275; p. 899.
Dynamo-mounting. C. Hartmann. No. 1,344,946; June 29; v. 245; p. 899.
Dynamo suspension. W. F. Richards. No. 1,359,920; Nov. 23; v. 280; p. 683.
Dynamoelectric machine. T. Zimmerman. No. 1,353,883; Sept. 28; v. 278; p. 564.
Dynamometer. W. M. Shallcross. No. 1,354,698; Oct. 5; v. 279; p. 50.
Dynamos, Arrangement for automatically regulating the voltage of. L. Schön. No. 1,352,839; Sept. 14; v. 278; p. 255.
Dynamos, Current-regulator for. V. G. Apple. No. 1,354,713; Oct. 5; v. 279; p. 54.
Dynamos, Lubricating device for. J. Bijur. No. 1,349,871; Aug. 17; v. 277; p. 464.
Ear-bandage for infants. E. R. Parvin. No. 1,328,090; Apr. 27; v. 273; p. 656.
Ear-drum protector. F. A. Schultz. No. 1,355,276; Oct. 12; v. 279; p. 217.
Ear-drum protector or ear-stopper. E. Baum. No. 1,344,935; June 29; v. 275; p. 897.
Ear, Mechanical bone-conductive. J. Prenn. No. 1,346,721; July 13; v. 276; p. 337.
Ear ornaments, Fastening device for. H. T. Moler. No. 1,344,556; June 22; v. 275; p. 759.
Ear-snapping and corn-husking machine. J. W. Promenschenkel. No. 1,344,563; June 22; v. 275; p. 761.
Earth-stirring implements, Draft connection for. C. P. Zinser. No. 1,353,620; Sept. 21; v. 278; p. 469.
Earth-working machines, Attachment for. L. H. Towner. No. 1,346,432; July 13; v. 276; p. 280.
Earthenware articles, Making. W. S. Williams. No. 1,340,308; May 18; v. 274; p. 444.
Earthenware, Making sanitary. E. H. Lawrence. No. 1,337,663; Apr. 20; v. 273; p. 506.
Earthenware parts, Method and apparatus for making hollow. C. H. Muckenhirn. No. 1,332,514; Mar. 2; v. 272; p. 65.
Earthy material, Machine for treating. M. A. Popkess. No. 1,337,953; Apr. 20; v. 273; p. 561.
Easel. J. Blyth. No. 1,359,662; Nov. 23; v. 280; p. 631.
Easel. C. S. Hurlbut. No. 1,343,054; June 8; v. 275; p. 336.
Easel. A. F. Johnson. No. 1,341,560; May 25; v. 274; p. 755.
Easel. J. Stranders. No. 1,342,313; June 1; v. 275; p. 137.
Easel, Folding. J. W. Briggs. No. 1,359,026; Nov. 16; v. 280; p. 462.
Eating establishments, Self-serving apparatus for. C. R. Ball. No. 1,334,587; Mar. 23; v. 272; p. 614.
Eaves-trough. C. B. Jaynes. No. 1,356,368; Oct. 19; v. 279; p. 470.
Eaves-trough or gutter cover. F. W. Busse. No. 1,349,264; Aug. 10; v. 277; p. 273.
Eaves-trough screen. W. L. Spriggs. No. 1,351,703; Aug. 31; v. 277; p. 930.
Ebullient refining process. W. M. Johnson. No. 1,333,721; Mar 16; v. 272; p. 405.
Edge-finishing machine. H. E. Enslin. No. 1,331,056; Feb. 17; v. 271; p. 421.
Edge-lining machine. F. A. Phillips. No. 1,327,923; Jan. 13; v. 270; p. 256.
Edge-trimmer. W. H. Browning. No. 1,348,847; Aug. 10; v. 277; p. 191.
Edge-trimming machine. C. C. Blake. No. 1,339,878; May 11; v. 274; p. 306.
Edges, Machine for setting. O. R. Angell. No. 1,360,990; Nov. 30; v. 280; p. 960.
Education appliance. T. M. Smith. No. 1,343,095; June 8; v. 275; p. 344.
Educational appliance. J. H. Frome. No. 1,329,896; Feb. 3; v. 271; p. 103.
Educational appliance. L. W. Musser. No. 1,335,126; Mar. 30; v. 272; p. 776.
Educational block. E. H. Ketchum. No. 1,354,910; Oct. 5; v. 279; p. 93.
Educational device. H. M. Porter. No. 1,350,237; Aug. 17; v. 277; p. 535.
Educational device. F. Sargent. No. 1,332,761; Mar. 2; v. 272; p. 112.
Educational device. P. M. Sittinger. No. 1,359,115; Nov. 16; v. 280; p. 478.
Educational device. R. J. Lewers. No. 1,356,929; Oct. 26; v. 279; p. 627.
Educational device. A. L. Runyan. No. 1,354,692; Oct. 5; v. 279; p. 49.
Educational device. I. Zion. No. 1,346,929; July 20; v. 276; p. 437.
Educational device. I. Zion. No. 1,346,930; July 20; v. 276; p. 437.
Educational device for objective teaching. O. Herrmann. No. 1,343,721; June 15; v. 275; p. 530.
Efficiency-recorder. M. H. Avram. No. 1,339,381; May 11; v. 274; p. 211.
Effigy, Articulated. H. M. Dawley. No. 1,347,993; July 27; v. 276; p. 704.
Egg-beater. G. E. Alexander. No. 1,334,274; Mar. 23; v. 272; p. 555.
Egg-beater. P. Neukirchen. No. 1,327,568; Jan. 6; v. 270; p. 129.
Egg-beater. L. Ullman. No. 1,337,860; Apr. 20; v. 273; p. 543.
Egg-beater, Electrically operated. B. D. Viers. No. 1,359,208; Nov. 16; v. 280; p. 496.
Egg-beaters, Operating mechanism for. D. Karamanos. No. 1,362,164; Dec. 14; v. 281; p. 283.
Egg-beaters, Water-motor for. R. L. Long. No. 1,337,478; Apr. 20; v. 273; p. 470.
Egg-boiler. G. Alfisi. No. 1,337,876; Apr. 20; v. 273; p. 546.
Egg boiler and poacher, Combined. W. Eichelberger. No. 1,354,385; Sept. 28; v. 278; p. 666.
Egg-boiler, Electric. B. Urso. No. 1,335,306; Mar. 30; v. 272; p. 809.
Egg-boiling rack. F. J. Vierling, F. R. Bartholomew, and M. H. Smith. No. 1,346,283; July 13; v. 276; p. 251.
Egg-box. J. L. Coyle. No. 1,327,946; Jan. 13; v. 270; p. 260.
Egg-candler. C. W. Ellis. No. 1,345,151; June 29; v. 275; p. 938.
Egg-candler. L. H. Fox. No. 1,361,040; Dec. 7; v. 281; p. 12.
Egg-candler. W. D. Iseman. No. 1,351,757; Sept. 7; v. 278; p. 8.
Egg-candler. F. C. Mahaffey. No. 1,328,091; Jan. 13; v. 270; p. 288.
Egg-candler. C. T. McLellan. No. 1,352,822; Sept. 14; v. 278; p. 252.
Egg-carrier. J. I. Edwards. No. 1,362,482; Dec. 14; v. 281; p. 345.
Egg-carrier. A. V. Lea. No. 1,343,629; June 15; v. 275; p. 512.
Egg-carrier. R. M. and H. R. Willis. No. 1,358,808; Nov. 16; v. 280; p. 421.
Egg-case. L. Schwartzberg. No. 1,335,800; Mar. 30; v. 272; p. 808.
Egg-case. G. Tiemann. No. 1,351,708; Aug. 31; v. 277; p. 931.
Egg-case. J. B. White. No. 1,339,430; May 11; v. 274; p. 220.
Egg-case filler. C. E. La Fleur. No. 1,337,978; Apr. 20; v. 273; p. 566.
Egg-case filler. M. L. Sisson. No. 1,360,808; Nov. 30; v. 280; p. 925.
Egg-case, Safety. C. R. Shafer. No. 1,330,284; Feb. 10; v. 271; p. 206.
Egg-crate filler. I. Perris. No. 1,347,909; July 27; v. 276; p. 688.
Egg-handling device. J. H. Pearson. No. 1,355,354; Oct. 12; v. 279; p. 232.
Egg-holder. A. P. McCormick. No. 1,362,023; Dec. 14; v. 281; p. 256.
Egg-holder. J. P. Stourm. (Reissue.) No. 15,014; Dec. 21; v. 281; p. 539.
Egg holder and carrier. H. L. G. Moore. No. 1,329,674; Feb. 3; v. 271; p. 61.
Egg-mixer. R. G. Wilson. No. 1,353,443; Sept 21; v. 278; p. 432.
Egg, Sanitary nest-. L. C. Bouma. No. 1,339,543; May 11; v. 274; p. 242.
Egg-separator and juice-extractor, Combined. P. Tripke. No. 1,327,929; Jan. 13; v. 270; p. 257.
Egg-shipping case. W. H. Bussey. No. 1,355,810; Oct. 19; v. 279; p. 360.
Egg-slicer. M. Golby. No. 1,332,035; Feb. 24; v. 271; p. 625.
Egg spacer or separator. S. Ellis. No. 1,334,603; Mar. 23; v. 272; p. 617.
Egg-tester. J. R. Blakemore. No. 1,329,223; Jan. 27; v. 270; p. 567.
Egg-tester. W. F. and E. H. Lohse. No. 1,330,199; Feb. 10; v. 271; p. 191.
Egg-tester. J. Moll. No. 1,360,987; Nov. 30; v. 280; p. 960.
Egg-timer. M. J. Nelson. No. 1,343,738; June 15; v. 275; p. 533.
Egg-tray. S. C. Beamer. No. 1,344,019; June 22; v. 275; p. 654.

Digitized by Google

Egg-tray C. S. Ewry. No. 1,345,483; July 6; v. 276; p. 31.
Egg tray and turning mechanism. H. V. Flickinger. No. 1,332,893; Mar. 9; v. 272; p. 188.
Egg-turning tray. C. Weeks. No. 1,356,949; Oct. 26; v. 279; p. 631.
Egg-washer. M. J. Corcoran. No. 1,340,020; May 11; v. 274; p. 332.
Egg-washer. G. McCray. No. 1,352,138; Sept. 7; v. 278; p. 82.
Eggs and separating the contents thereof, Machine for opening. G. Weiss. No. 1,361,121; Dec. 7; v. 281; p. 28.
Ejector control. R. Suczek. No. 1,362,515; Dec. 14; v. 281; p. 351.
Elastic extension device. L. Macheroux. No. 1,345,945; July 6; v. 276; p. 122.
Elastic fabric. M. W. Schloss. No. 1,359,112; Nov. 16; v. 280; p. 478.
Elastic-fluid-turbine regulator. G. Egger. No. 1,329,385; Feb. 3; v. 271; p. 8.
Elbow. J. Watson. No. 1,333,195; Mar. 9; v. 272; p. 245.
Elbow-bending machine, Crimped-. J. M. Brown. No. 1,340,320; May 18; v. 274; p. 446.
Elbow-protector. M. Baldwin. No. 1,351,731; Sept. 7; v. 278; p. 3.
Electric accumulators, Manufacture of. H. Leitner and W. H. Westfall. No. 1,327,336; Jan. 6; v. 270; p. 85.
Electric accumulators, Manufacture of. H. Leitner and W. H. Exley. No. 1,329,125; Jan. 27; v. 270; p. 549.
Electric apparatus. A. T. Boltas. No. 1,356,484; Oct. 19; v. 279; p. 492.
Electric apparatus. H. O. Stephens. No. 1,345,712; July 6; v. 276; p. 75.
Electric apparatus, Starting means for. T. A. Barrett. No. 1,339,914; May 11; v. 274; p. 313.
Electric-arc furnace. L. Lombardi. No. 1,346,223; July 13; v. 276; p. 238.
Electric-arc furnace. F. von Schlegell. No. 1,352,541; Sept. 14; v. 278; p. 194.
Electric arch-support, Thermo-. A. R. Cooper. No. 1,344,581; June 22; v. 275; p. 764.
Electric battery. H. D. Batchelor. No. 1,329,946; Feb. 3; v. 271; p. 113.
Electric battery. G. B. Fraley. No. 1,334,849; Mar. 23; v. 272; p. 664.
Electric battery. H. J. French. No. 1,357,100; Oct. 26; v. 279; p. 672.
Electric battery. H. F. French. (Reissue.) No. 14,984; Nov. 16; v. 280; p. 551.
Electric battery. C. W. Hazelett. No. 1.331,764; Feb. 24; v. 271; p. 573.
Electric battery. O. E. Ruhoff. No. 1,331,877; Feb. 24; v. 271; p. 595.
Electric battery. O. E. Ruhoff. No. 1,342,068; June 1; v. 275; p. 89.
Electric battery. O. E. Ruhoff. No. 1,352,087; Sept. 7; v. 278; p. 72.
Electric battery and producing same, Oil-protected. O. E. Ruhoff. No. 1,352,834; Sept. 14; v. 278; p. 254.
Electric brake. F. A. Hecht, Jr. No. 1,359,700; Nov. 23; v. 280; p. 639.
Electric-cable-connecting means. J. M. Kiefer, Jr. No. 1,336,437; Apr. 13; v. 273; p. 198.
Electric-candle stand. L. Schlepp. No. 1,331,385; Feb. 17; v. 271; p. 481.
Electric cell. C. Féry. No. 1,350,977; Oct. 26; v. 279; p. 636.
Electric circuit. P. C. Hewitt. No. 1,328,327; Jan. 20; v. 270; p. 370.
Electric-circuit breaker, Automatic. H. E. Wadsworth and W. B. Ensign. No. 1,358,268; Nov. 9; v. 280; p. 267.
Electric-circuit breaker, Automatic. H. E. Wadsworth and W. B. Ensign. No. 139,298; Nov. 16; v. 280; p. 514.
Electric-circuit current-interrupter. C. E. Bennett. No. 1,359,222; Nov. 16; v. 280; p. 499.
Electric circuit for a certain period, Switch for the closing of an. H. A. Schepeler. No. 1,348,746; Aug. 3; v. 277; p. 118.
Electric-circuit making and breaking device. I. T. Swartz. No. 1,357,532; Nov. 2; v. 280; p. 62.
Electric-circuit protector. S. N. Baruch. No. 1,352,044; Sept. 7; v. 278; p. 64.
Electric-circuit switch. I. Deutsch. No. 1,339,922; May 11; v. 274; p. 314.
Electric-circuit thermostat. J. H. Derby and E. S. Clayton. No. 1,347,735; July 27; v. 276; p. 653.
Electric circuits and electroresponsive apparatus, Saline-operated. H. Wygodsky. No. 1,327,262; Jan. 6; v. 270; p. 72.
Electric circuits, Apparatus for controlling. G. F. Bagge. No. 1,362,553; Dec. 14; v. 281; p. 359.
Electric circuits, Automatic controlling device for. C. E. Brown. No. 1,331,316; Feb. 17; v. 271; p. 468.
Electric circuits, Controlling device for. E. C. Newcomb and L. L. Scott. No. 1,352,212; Sept. 7; v. 278; p. 95.
Electric circuits, Controlling means for. W. O. Lum. No. 1,339,466; May 11; v. 274; p. 227.
Electric circuits, Flush push-button switch for. M. H. Baker. No. 1,328,481; Jan. 20; v. 270; p. 399.
Electric circuits, Method and means for controlling. H. R. Canfield. No. 1,344,260; June 22; v. 275; p. 700.
Electric circuits, Thermodynamically-controlled pendent switch for. M. H. Baker. No. 1,328,480; Jan. 20; v. 270; p. 398.
Electric clock. N. Collins. No. 1,363,841; Dec. 28; v. 281; p. 701.
Electric condenser. P. Thomas. No. 1,362,059; Dec. 14; v. 281; p. 263.
Electric conductor. P. F. Frey. No. 1,327,542; Jan. 6; v. 270; p. 124.
Electric-conductor support. B. A. Plimpton. No. 1,362,038; Dec. 14; v. 281; p. 258.
Electric-conductor take-up. A. W. Hill. No. 1,340,268; May 18; v. 274; p. 436.
Electric conductors, Branch connector for. W. A. Harvey. No. 1,358,731; Nov. 16; v. 280; p. 405.
Electric conductors, Lapping-machine for covering. C. J. Beaver, J. Stratton, and E. A. Claremont. No. 1,330,050; Feb. 10; v. 271; p. 163.
Electric connection. F. F. Dorsey. No. 1,334,084; Mar. 16; v. 272; p. 473.
Electric connection. T. L. Lee. No. 1,334,040; Mar. 16; v. 272; p. 466.
Electric connectors, Spring clasping terminal for. H. B. Sherman and F. D. Maltby. No. 1,352,092; Sept. 7; v. 278; p. 73.
Electric contact, Adjustable. F. H. Lorking. No. 1,347,391; July 20; v. 276; p. 528.
Electric contact-breaker. F. H. Royce. No. 1,349,783; Aug. 17; v. 277; p. 448.
Electric control system. P. R. Owens. No. 1,350,382; Aug. 24; v. 277; p. 609.
Electric controller. E. J. Carroll. No. 1,350,003; Aug. 17; v. 277; p. 490.
Electric controller. T. T. Cater. No. 1,328,126; Jan. 13; v. 270; p. 295.
Electric controller. R. R. Dunlop. No. 1,348,397; Aug. 3; v. 277; p. 53.
Electric controllers, Attachment for. A. R. Anderson. No. 1,328,804; Jan. 27; v. 270; p. 487.
Electric controlling means. W. Schwagermann. No. 1,362,898; Dec. 21; v. 281; p. 478.
Electric cord, Grip-fitting for. E. C. White. No. 1,342,787; June 8; v. 275; p. 283.
Electric-current-collector bars, Expansion-joint for. E. A. Davis. No. 1,350,856; Aug. 24; v. 277; p. 701.
Electric-current-collector shoes, Support for. B. H. Whiting. No. 1,354,789; Oct. 5; v. 279; p. 69.
Electric-current-collector shoes, Support for. B. H. Whiting. No. 1,354,790; Oct. 5; v. 279; p. 69.
Electric current into isochronous undulatory currents, Converter for transforming continuous. H. Magunna. No. 1,359,903; Nov. 23; v. 280; p. 679.
Electric-current-regulating plugs and sockets, Switch and contact mechanism for. A. Pipini. No. 1,342,061; June 1; v. 275; p. 88.
Electric current to a moving vehicle, Apparatus for supplying. L. Herbeil. No. 1,329,403; Feb. 3; v. 271; p. 11.
Electric currents, Apparatus for amplifying pulsating. L. de Forest. No. 1,348,157; Aug. 3; v. 277; p. 5.
Electric currents, Apparatus for rectifying. A. F. Nesbit. No. 1,349,907; Aug. 17; v. 277; p. 471.
Electric currents for medical purposes, Apparatus to regulate the strength of. M. Nicoletis. No. 1,338,052; May 4; v. 274; p. 56.
Electric cut-out. C. Dantsizen. No. 1,343,039; June 8; v. 275; p. 333.
Electric cut-out. T. E. Murray. No. 1,363,151; Dec. 21; v. 281; p. 527.
Electric detonator. H. L. Grant and G. Haddow. No. 1,354,100; Sept. 28; v. 278; p. 609.
Electric discharge, Apparatus for subjecting substances or molecular matter to the electrostatic stress of a high-tension. F. G. Niece and R. M. Leggett. No. 1,334,962; Mar. 30; v. 272; p. 745.
Electric distribution systems, Protection of. P. V. Hunter and J. R. Beard. No. 1,339,394; May 11; v. 274; p. 213.
Electric drill. R. Z. Farmer. No. 1,358,303; Nov. 9; v. 280; p. 274.
Electric elevator. N. O. Lindstrom and C. F. E. Olofson. No. 1,360,420; Nov. 30; v. 280; p. 849.
Electric fitting. G. B. Thomas. No. 1,329,330; Jan. 27; v. 270; p. 586.
Electric fixture coupling. A. I. Schwinger. No. 1,357,524; Nov. 2; v. 280; p. 61.
Electric fixtures, Making installation-loops for. J. Shoner. No. 1,342,071; June 1; v. 275; p. 90.
Electric-flash-lamp cases, Support for. R. W. Livingston. No. 1,363,664; Dec. 28; v. 281; p. 666.
Electric fluid-heater. A. B. Elliott. No. 1,360,510; Nov. 30; v. 280; p. 867.
Electric fuel-mixture regulator, Automatic. A. A. Loetscher. No. 1,360,547; Nov. 30; v. 280; p. 874.
Electric furnace. L. Almagia and E. Guerreschi. No. 1,336,807; Apr. 13; v. 273; p. 269.
Electric furnace. T. F. Baily and F. T. Cope. No. 1,340,203; May 18; v. 274; p. 424.
Electric furnace. S. Barfoed. No. 1,336,939; Apr. 13; v. 273; p. 295.

Digitized by Google

Alphabetical list of inventions—Continued.

Electric furnace. W. K. Booth. No. 1,332,795; Mar. 2; v. 272; p. 118.
Electric furnace. S. N. Castle. No. 1,358,617; Nov. 9; v. 280; p. 337.
Electric furnace. W. R. Clark. No. 1,328,713; Jan. 20; v. 270; p. 441.
Electric furnace. E. L. Crosby. No. 1,336,820; Apr. 13; v. 273; p. 271.
Electric furnace. J. Herlenius. No. 1,338,631; Apr. 27; v. 273; p. 757.
Electric furnace. J. Hughes. No. 1,339,393; May 11; v. 274; p. 213.
Electric furnace. W. S. Mayer and W. C. Kennedy. No. 1,350,876; Aug. 24; v. 277; p. 705.
Electric furnace. C. E. Parsons. No. 1,359,735; Nov. 23; v. 280; p. 646.
Electric furnace. J. A. Pickens. No. 1,337,156; Apr. 13; v. 273; p. 335.
Electric furnace. R. R. Reed. No. 1,357,901; Nov. 2; v. 280; p. 134.
Electric furnace. M. Ruthenburg. No. 1,335,199; Mar. 30; v. 272; p. 790.
Electric furnace. F. von Schlegell and W. B. Lewis. No. 1,352,040; Sept. 7; v. 278; p. 63.
Electric furnace. E. L. Smalley. No. 1,346,854; July 20; v. 276; p. 422.
Electric furnace. C. W. Speirs. No. 1,335,079; Mar. 30; v. 272; p. 768.
Electric furnace. J. Thomson. No. 1,351,977; Sept. 7; v. 278; p. 52.
Electric furnace. M. R. Trembour. No. 1,333,950; Mar. 16; v. 272; p. 448.
Electric furnace, Three-phase. F. T. Snyder. No. 1,327,174; Jan. 6; v. 270; p. 55.
Electric generator. L. J. Le Pontois. No. 1,330,037; Feb. 3; v. 271; p. 129.
Electric generator. L. J. Le Pontois. No. 1,330,038; Feb. 3; v. 271; p. 129.
Electric generator. L. J. Le Pontois. No. 1,330,039; Feb. 3; v. 271; p. 129.
Electric generator. A. H. Neuland. No. 1,331,998; Feb. 24; v. 271; p. 618.
Electric generator. F. J. Whitcomb. No. 1,337,739; Apr. 20; v. 273; p. 520.
Electric generator, High-frequency. M. C. A. Latour. No. 1,330,638; Feb. 10; v. 271; p. 273.
Electric - generator regulator. H. E. Borger. No. 1,336,416; Apr. 13; v. 273; p. 194.
Electric-generator regulator. W. A. Turbayne. No. 1,331,223; Feb. 17; v. 271; p. 451.
Electric generator, Wind-wheel. A. H. Heyroth. No. 1,352,960; Sept. 14; v. 278; p. 278.
Electric generating system, Automatic. E. B. Reese. No. 1,360,246; Nov. 23; v. 280; p. 747.
Electric generating plant. G. W. Howden. No. 1,355,672; Oct. 12; v. 279; p. 293.
Electric generators, Regulator for. W. A. Turbayne. No. 1,350,999; Oct. 19; v 279; p. 417.
Electric guiding mechanism. J. O'Connor. No. 1,360,565; Nov. 30; v. 280; p. 878.
Electric heat-radiator. A. F. Berry. No. 1,330,576; Feb. 10; v. 271; p. 261.
Electric heater. C. C. Abbott. No. 1,345,730; July 6; v. 276; p. 79.
Electric heater. R. P. Barnstead. No. 1,360,999; Dec. 7; v. 281; p. 4.
Electric heater. P. J. H. Bernard. No. 1,356,335; Oct. 19; v. 279; p. 464.
Electric heater. E. W. Brown. No. 1,336,021; Apr. 6; v. 273; p. 60.
Electric heater. W. O. Bunnell and Q. A. Gates. No. 1,346,793; July 13; v. 276; p. 352.
Electric heater. C. E. Clark and A. G. Dowell. No. 1,327,986; Jan. 13; v. 270; p. 268.
Electric heater. J. M. Curless. No. 1,328,723; Jan. 20; v. 270; p. 443.
Electric heater. J. R. Goldthwaite. No. 1,331,496; Feb. 24; v. 271; p. 522.
Electric heater. A. B. Hendricks, Jr. No. 1,362,622; Dec. 21; v. 281; p. 424.
Electric heater. E. N. Lightfoot. No. 1,359,400; Nov. 16; v. 280; p. 535.
Electric heater. A. C. Mather. No. 1,351,779; Sept. 7; v. 278; p. 12.
Electric heater. W. A. Sharpe. No. 1,360,452; Nov. 30; v. 280; p. 855.
Electric heater. F. Thornton, Jr., and F. F. Forshee. No. 1,362,060; Dec. 14; v. 281; p. 263.
Electric heater. H. E. Welchel and A. A. McCray. No. 1,361,556; Dec. 7; v. 281; p. 117.
Electric heater. C. A. Xardell. No. 1,350,586; Aug. 24; v. 277; p. 651.
Electric heater. C. A. Xardell. No. 1,350,631; Aug. 24; v. 277; p. 659.
Electric heater. H. J. Youngblood. No. 1,363,947; Dec. 28; v. 281; p. 721.
Electric heater. H. J. Youngblood. No. 1,363,948; Dec. 28; v. 281; p. 721.
Electric heater and trouble-lamp. A. J. Barnes and C. A. Fedder. No. 1,359,780; Nov. 23; v. 280; p. 655.
Electric heater, Portable. J. C. Clutts. No. 1,358,059; Nov. 9; v. 280; p. 226.
Electric heating and bending device. G. E. Barstow. No. 1,332,658; Mar. 2; v. 272; p. 92.
Electric heating apparatus. O. A. Colby. No. 1,335,483; Mar. 30; v. 272; p. 842.
Electric heating apparatus. E. F. Collins. No. 1,343,996; June 22; v. 275; p. 649.
Electric heating apparatus. R. P. Dunning. No. 1,362,609; Dec. 21; v. 281; p. 421.
Electric heating apparatus. R. P. Dunning. No. 1,362,610; Dec. 21; v. 281; p. 422.
Electric heating device. E. H. Richardson. No. 1,345,696; July 6; v. 276; p. 72.
Electric heating device. W. A. Rankin. No. 1,362,351; Dec. 14; v. 281; p. 320.
Electric heating element. L. W. Chubb. No. 1,360,267; Nov. 30; v. 280; p. 820.
Electric heating element. C. R. Wassell. No. 1,344,282; June 22; v. 275; p. 705.
Electric heating for upsetting and forming, Machine and method for. E. Riemenschneider. No. 1,359,199; Nov. 16; v. 280; p. 494.
Electric heating-iron. N. A. Nelson. No. 1,357,648; Nov. 2; v. 280; p. 84.
Electric heating unit. C. C. Abbott. No. 1,350,910; Aug. 24; v. 277; p. 711.
Electric-heating system. D. E. Gray. No. 1,363,776; Dec. 28; v. 281; p. 688.
Electric ignition apparatus. F. Billon. No. 1,357,684; Nov. 2; v. 280; p. 91.
Electric ignition apparatus. F. Billon. No. 1,361,183; Dec. 7; v. 281; p. 30.
Electric ignition apparatus, High-voltage distributer for. F. Billon. No. 1,349,316; Aug. 10; v. 277; p. 283.
Electric ignition apparatus, Mechanism for regulating the point of ignition in magneto-. E. Hurlimann. No. 1,349,278; Aug. 10; v. 277; p. 276.
Electric ignition machines, High-tension distributer for magneto-. J. Schneider, E. Hurlimann, and F. Billon. No. 1,349,299; Aug. 10; v. 277; p. 280.
Electric ignition systems, Mechanical interrupter for A. Krauss. No. 1,337,456; Apr. 20; v. 273; p. 466.
Electric impulsion-motor. M. E. A. Baule. No. 1,347,002; July 20; v. 276; p. 451.
Electric-incandescent-lighting apparatus. M. Pattay and E. Jaquemot. No. 1,346,671; July 13; v. 276; p. 327.
Electric insulating molded articles, Manufacturing. F. Grünwald. No. 1,330,444; Feb. 10; v. 271; p. 286.
Electric interlocking systems, Protective device for. W. S. Henry. No. 1,334,900; Mar. 28; v. 272; p. 674.
Electric interrupter. J. Bouteille. No. 1,333,202; Mar. 9; v. 272; p. 246.
Electric iron. J. A. Guyer No. 1,353,471; Sept. 21; v. 278; p. 438.
Electric-iron stand. E. Stranszky. No. 1,331,400; Feb. 17; v. 271; p. 484.
Electric-lamp lock. F. J. O'Neill. No. 1,331,355; Feb. 17; v. 271; p. 476.
Electric-light bracket. J. G. Jones. No. 1,340,273; May 18; v. 274; p. 437.
Electric-light-bulb stabilizer. B. L. Thompson. No. 1,348,970; Aug. 10; v. 277; p. 214.
Electric-light bulbs, Locking device for. J. P. Cassidy. No. 1,360,266; Nov. 30; v. 280; p. 819.
Electric-light bulbs, Shade-holder for. W. E. Surface. No. 1,351,879; Sept. 7; v. 278; p. 83.
Electric-light bulbs, Wrapper for packing. J. E. Clenny and G. S. Wright. No. 1,337,592; Apr. 20; v. 273; p. 492.
Electric-light-cord reel. H. E. Johnson. No. 1,361,465; Dec. 7; v. 281; p. 98.
Electric-light dimmer E. J. Klinger. No. 1,356,293; Oct. 19; v. 279; p. 456.
Electric-light fixture. F. E. d'Humy. No. 1,357,034; Oct. 26; v. 279; p. 647.
Electric-light fixture. R. S. Giese. No. 1,331,756; Feb. 24; v. 271; p. 572.
Electric-light fixture. G. E. Villaret No. 1,361,786; Dec. 7; v. 281; p. 161.
Electric-light fixture, Ceiling. S. Garfunkel. No. 1,331,494; Feb. 24; v. 271; p. 522.
Electric-light-fixture coupling. A. A. Schwartz and W. A. Whiteside. No. 1,356,745; Oct. 26; v. 279; p. 591.
Electric-light fixtures, Adjustable cluster for. L. W. Andersen. No. 1,358,811; Nov. 16; v. 280; p. 421.
Electric-light fixtures to outlet-boxes, Device for attaching. R. Battle. No. 1,351,150; Aug. 31; v. 277; p. 820
Electric light, Portable. B. Benedict. No. 1,335,644; Mar. 30; v. 272; p. 873.
Electric light, Portable. F. Rampp. No. 1,350,837; Aug. 24; v. 277; p. 698.
Electric light, Portable. F. G. Spiers. No. 1,326,983; Jan. 6; v. 270; p. 20.
Electric light, Portable. C. Wachtel. No. 1,360,477; Nov. 30; v. 280; p. 860.
Electric light, Portable. G. W. Wacker. No. 1,363,698; Dec. 28; v. 281; p. 673.
Electric-light regulator. L. and A. G. Sawyer-Soucy. No. 1,340,795; May 18; v. 274; p. 536.
Electric-light socket. L. E. Wood. No. 1,342,658; June 8; v. 275; p. 256.
Electric-light structure. M. Herakovits. No. 1,361,461; Dec. 7; v. 281; p. 98.
Electric-light switch. D. A. Byerly. No. 1,343,109; June 8; v. 275; p. 347.

Digitized by Google

Alphabetical list of inventions—Continued.

Electric-light switch. F. S. Riggs. No. 1,335,753; Apr. 6; v. 273; p. 10.
Electric lights, Thermodynamically-controlled socket-switch for. M. H. Baker. No. 1,328,478; Jan. 20; v. 270; p. 398.
Electric lights, Thermodynamically-controlled socket-switch for. M. H. Baker. No. 1,328,479; Jan. 20; v. 270; p. 398.
Electric lights, Thermodynamically-controlled socket-switch for. M. H. Baker. No. 1,350,587; Aug. 24; v. 277; p. 651.
Electric lock. J. A. Kyle. No. 1,343,731; June 15; v. 275; p. 532.
Electric machine. P. Bossu. No. 1,341,492; May 25; v. 274; p. 742.
Electric machine. R. H. Wappler. No. 1,354,591; Oct. 5; v. 279; p. 29.
Electric machine adapted for synchronous working, Alternating-current dynamo- J. L. Hunt. No. 1,328,520; Jan. 20; v. 270; p. 406.
Electric-machine construction, Dynamo-. A. E. Seinecke. No. 1,362,543; Dec. 14; v. 281; p. 357.
Electric machine, Dynamo-. S. R. Bergman. No. 1,334,832; Mar. 23; v. 272; p. 660.
Electric machine, Dynamo-. S. R. Bergman. No. 1,340,004; May 11; v. 274; p. 329.
Electric machine, Dynamo-. S. R. Bergman. No. 1,340,005; May 11; v. 274; p. 330.
Electric machine, Dynamo-. J. Burke. No. 1,361,136; Dec. 7; v. 281; p. 81.
Electric machine, Dynamo-. J. Burke. No. 1,361,363; Dec. 7; v. 281; p. 77.
Electric machine, Dynamo-. V. A. Fynn. No. 1,354,901; Oct. 5; v. 279; p. 90.
Electric machine, Dynamo-. V. A. Fynn. No. 1,359,687; Nov. 23; v. 280; p. 636.
Electric machine, Dynamo-. R. E. Hellmund. No. 1,327,820; Jan. 13; v. 270; p. 237.
Electric machine, Dynamo-. R. E. Hellmund. No. 1,327,821; Jan. 13; v. 270; p. 237.
Electric machine, Dynamo-. R. E. Hellmund. No. 1,349,377; Aug. 10; v. 277; p. 295.
Electric machine, Dynamo-. R. E. Hellmund. No. 1,351,035; Aug. 31; v. 277; p. 799.
Electric machine, Dynamo-. R. E. Hellmund and R. E. Ferris. No. 1,351,036; Aug. 31; v. 277; p. 799.
Electric machine, Dynamo-. A. Kimble. No. 1,345,370; July 6; v. 276; p. 9.
Electric machine, Dynamo-. J. K. Kostko. No. 1,353,658; Sept. 21; v. 278; p. 477.
Electric machine, Dynamo-. J. A. Kuyser. No. 1,329,247; Jan. 27; v. 270; p. 571.
Electric machine, Dynamo-. C. B. Mills. No. 1,343,221; June 15; v. 275; p. 433.
Electric machine, Dynamo-. A. H. Neuland. No. 1,348,037; July 27; v. 276; p. 713.
Electric machine, Dynamo-. P. P. Politowski. No. 1,361,546; Dec. 7; v. 281; p. 115.
Electric machine, Dynamo-. W. T. and B. A. Reynolds. No. 1,349,100; Aug. 10; v. 277; p. 248.
Electric machine, Dynamo-. C. W. Starker. No. 1,362,050; Dec. 14; v. 281; p. 261.
Electric machine, Dynamo-. M. Walker. No. 1,335,144; Mar. 30; v. 272; p. 780.
Electric machine, Dynamo-. J. B. Wiard. No. 1,360,482; Nov. 30; v. 280; p. 861.
Electric machine, Dynamo-. J. B. Wiard. No. 1,360,483; Nov. 30; v. 280; p. 862.
Electric machine, Dynamo-. C. E. Wilson. No. 1,358,809; Nov. 16; v. 280; p. 421.
Electric machine, High-tension. C. Fayer. No. 1,348,086; Aug. 10; v. 277; p. 218.
Electric machine, Magneto-. H. W. Uhl. No. 1,345,331; June 29; v. 275; p. 973.
Electric machines, Arrangement of leads for dynamo-. R. E. Hellmund. No. 1,351,907; Sept. 7; v. 278; p. 39.
Electric machines, Brush-holder for dynamo-. J. S. Dean. No. 1,363,721; Dec. 28; v. 281; p. 678.
Electric machines, Brush-rigging for dynamo-. E. F. Andrews and R. E. Acre. No. 1,346,108; July 13; v. 276; p. 216.
Electric machines, Building inductor elements for dynamo-. V. G. Apple. No. 1,348,198; Aug. 3; v. 277; p. 13.
Electric machines, Coil for dynamo-. S. Sparrow. No. 1,329,027; Jan. 27; v. 270; p. 530.
Electric machines, Coil-supporting device for dynamo-. R. E. Hellmund. No. 1,329,242; Jan. 27; v. 270; p. 570.
Electric machines, Commutating means for dynamo-. R. E. Hellmund. No. 1,335,110; Mar. 30; v. 272; p. 773.
Electric machines, Commutator for dynamo-. E. D. Priest. No. 1,349,854; Aug. 17; v. 277; p. 461.
Electric machines, Control system for dynamo-. R. E. Hellmund. No. 1,347,903; July 27; v. 276; p. 687.
Electric machines, Cooling arrangement for dynamo-. P. A. H. Mossay and H. C. E. Jacoby. No. 1,342,179; June 1; v. 275; p. 111.
Electric machines, Cover-hinge for. E. D. Priest. No. 1,331,874; Feb. 24; v. 271; p. 595.
Electric machines, Protecting means for dynamo-. J. H. Hertner. No. 1,336,520; Apr. 13; v. 273; p. 218.
Electric machines, Regulating device for dynamo-. O. F. Conklin. No. 1,352,051; Sept. 7; v. 278; p. 6.
Electric machines, Regulator for dynamo-. W. B. Moses. No. 1,363,806; Dec. 28; v. 281; p. 694.
Electric machines, Reversing brush-gear for dynamo-. H. D. Rohman. No. 1,349,584; Aug. 17; v. 277; p. 409.
Electric machines, Rotatable member for dynamo-. G. M. Eaton. No. 1,351,898; Sept. 7; v. 278; p. 37.
Electric machines, Rotor for dynamo-. G. M. Eaton. No. 1,351,897; Sept. 7; v. 278; p. 37.
Electric machines, System of field excitation for dynamo-. C. T. Allcutt. No. 1,334,942; Mar. 30; v. 272; p. 741.
Electric machines, Ventilation of dynamo-. G. Schroeder. No. 1,335,129; Mar. 30; v. 272; p. 777.
Electric machinery, Dynamo-. J. H. S. Mawdsley and H. F. Joel, Sr. No. 1,347,647; July 27; v. 276; p. 635.
Electric machinery, Dynamo-. L. J. Stephenson. (Reissue.) No. 14,787; Jan. 6; v. 270; p. 136.
Electric machinery, Exciting system for commutating poles in dynamo-. D. C. Davis. No. 1,357,227; Nov. 2; v. 280; p. 6.
Electric mercury-switch. R. E. de los Monteros. No. 1,351,101; Aug. 31; v. 277; p. 811.
Electric meter. W. E. Porter. No. 1,345,691; July 6; v. 276; p. 71.
Electric meter. T. T. Varley. No. 1,352,564; Sept. 14; v. 278; p. 200.
Electric motor. S. Boardman. No. 1,337,686; Apr. 20; v. 273; p. 510.
Electric motor. J. M. Breitenbach. No. 1,348,539; Aug. 3; v. 277; p. 79.
Electric motor. L. Foote. No. 1,338,568; Apr. 27; v. 273; p. 746.
Electric motor. F. C. C. Fox. No. 1,354,388; Sept. 28; v. 278; p. 667.
Electric motor. N. D. Levin. No. 1,,351,294; Aug. 31; v. 277; p. 850.
Electric motor. O. H. and A. F. Pieper. No. 1,348,239; Aug. 3; v. 277; p. 22.
Electric-motor control. J. Eaton. No. 1,328,501; Jan. 20; v. 270; p. 403.
Electric-motor regulator. G. H. Whittingham. No. 1,340,678; May 18; v. 274; p. 514.
Electric-motor regulator. G. H. Whittingham. No. 1,340,679; May 18; v. 274; p. 515.
Electric oscillator. G. M. J. Mackay. No. 1,337,933; Apr. 20; v. 273; p. 558.
Electric outlet members, Stud-attaching means for. C. N. Detwiler. No. 1,344,077; June 22; v. 275; p. 665.
Electric plug. A. Aguere. No. 1,353,699; Sept. 21; v. 278; p. 485.
Electric plug-receptacles, Convertible plate for. A. C. Recker. No. 1,349,978; Aug. 17; v. 277; p. 485.
Electric power for lighting purposes from low-frequency power-circuits, System for supplying. J. R. Beard. No. 1,363,707; Dec. 28; v. 281; p. 675.
Electric-power system. J. G. Thornburgh. No. 1,345,566; July 6; v. 276; p. 47.
Electric-power table. S. Desure. No. 1,332,434; Mar. 2; v. 272; p. 50.
Electric precipitator. H. I. Frisbie. No. 1,329,237; Jan. 27; v. 270; p. 569.
Electric primer. W. M. Upp. No. 1,329,345; Jan. 27; v. 270; p. 588.
Electric radiator. W. R. Savage. No. 1,330,904; Feb. 17; v. 271; p. 392.
Electric recorder. H. H. Welch. No. 1,338,715; May 4; v. 274; p. 12.
Electric regulating device, Automatic. A. Kazenmaier. No. 1,331,815; Feb. 24; v. 271; p. 583.
Electric regulation. J. L. Creveling. No. 1,343,905; June 22; v. 275; p. 631.
Electric regulation. J. L. Creveling. No. 1,344,222; June 22; v. 275; p. 693.
Electric regulation. J. L. Creveling. No. 1,348,348; Aug. 3; v. 277; p. 43.
Electric regulation. J. L. Creveling. No. 1,353,319; Sept. 21; v. 278; p. 408.
Electric regulation. G. G. Milne and J. L. Creveling. No. 1,351,055; Aug. 31; v. 277; p. 803.
Electric regulator. N. R. Haas. No. 1,344,689; June 29; v. 275; p. 850.
Electric regulator. A. Kazenmaier. No. 1,333,662; Mar. 16; v. 272; p. 394.
Electric regulator. E. R. Stoekle. No. 1,361,197; Dec. 7; v. 281; p. 43.
Electric regulator. L. Sykes. No. 1,327,642; Jan. 13; v. 270; p. 203.
Electric regulator. W. A. Turbayne. No. 1,357,933; Nov. 2; v. 280; p. 140.
Electric resistance-furnace. J. Simon and P. F. Sarron. No. 1,334,809; Mar. 23; v. 272; p. 656.
Electric rivet-heater. A. Imbery. No. 1,363,877; Dec. 28; v. 281; p. 708.
Electric rivet-heater, Portable. L. T. Weidrick. No. 1,349,539; Aug. 10; v. 277; p. 327.
Electric routing-machine. S. Hunter. No. 1,352,196; Sept. 7; v. 278; p. 92.
Electric safety-switch. A. W. Stanhope. No. 1,355,179; Oct. 12; v. 279; p. 198.
Electric service-box. C. H. Bissell. No. 1,360,079; Nov. 23; v. 280; p. 714.
Electric side light. R. S. Giese. No. 1,348,104; July 27; v. 276; p. 727.
Electric signaling. M. S. Morse. No. 1,344,308; June 22; v. 275; p. 710.

Digitized by Google

Electric socket and lamp protector. F. Stolzenwald. No. 1,336,761; Apr. 13; v. 273; p. 260.
Electric starting and generating system. E. H. Swarz. No. 1,343,400; June 15; v. 275; p. 468.
Electric steam-iron. S. Kako. No. 1,347,224; July 20; v. 276; p. 494.
Electric storage battery. M. Lechner. No. 1,359,259; Nov. 16; v. 280; p. 506.
Electric switch. C. E. Anderson. No. 1,348,684; Aug. 3; v. 277; p. 107.
Electric switch. W. E. Andrée. No. 1,327,009; Jan. 6; v. 270; p. 25.
Electric switch. W. E. Bell. No. 1,338,607; Apr. 27; v. 273; p. 753.
Electric switch. F. A. Boedtcher. No. 1,333,241; Mar. 9; v. 272; p. 254.
Electric switch. C. Bramming. No. 1,332,378; Mar. 2; v. 272; p. 40.
Electric switch. C. W. Brockett. No. 1,358,282; Nov. 9; v. 280; p. 269.
Electric switch. H. E. Campbell. No. 1,335,936; Apr. 6; v. 273; p. 44.
Electric switch. L. E. Carlson. No. 1,352,246; Sept. 7; v. 278; p. 102.
Electric switch. J. F. Cavanagh. No. 1,328,562; Jan. 20; v. 270; p. 414.
Electric switch. J. F. Cavanagh. No. 1,354,803; Oct. 5; v. 279; p. 72.
Electric switch. P. H. Chase. No. 1,352,400; Sept. 7; v. 278; p. 131.
Electric switch. P. H. Chase. No. 1,352,401; Sept. 7; v. 278; p. 131.
Electric switch. P. H. Chase. No. 1,352,402; Sept. 7; v. 278; p. 131.
Electric switch. C. Christensen. No. 1,349,873; Aug. 17; v. 277; p. 465.
Electric switch. R. Clore. No. 1,335,558; Mar. 30; v. 272; p. 856.
Electric switch. O. P. Erhardt. No. 1,328,622; Jan. 20; v. 270; p. 425.
Electric switch. C. T. Evans. No. 1,360,281; Nov. 30; v. 280; p. 822.
Electric switch. H. G. French. No. 1,337,895; Apr. 20; v. 273; p. 550.
Electric switch. J. Galamb. No. 1,353,580; Sept. 21; v. 278; p. 460.
Electric switch. F. P. Gates. No. 1,337,011; Apr. 13; v. 273; p. 308.
Electric switch. B. E. Getchell. No. 1,327,883; Jan. 6; v. 270; p. 94.
Electric switch. M. Guett. No. 1,327,615; Jan. 13; v. 270; p. 199.
Electric switch. M. Guett. No. 1,335,106; Mar. 30; v. 272; p. 773.
Electric switch. M. Guett. No. 1,339,820; May 11; v. 274; p. 295.
Electric switch. M. Guett. No. 1,347,629; July 27; v. 276; p. 632.
Electric switch. M. Guett. No. 1,350,725; Aug. 24; v. 277; p. 677.
Electric switch. H. F. Irrgang. No. 1,352,966; Sept. 14; v. 278; p. 280.
Electric switch. E. H. Jacobs. No. 1,331,067; Feb. 17; v. 271; p. 423.
Electric switch. E. H. Jacobs. No. 1,347,779; July 27; v. 276; p. 662.
Electric switch. I. H. Kaufman. No. 1,331,929; Feb. 24; v. 271; p. 605.
Electric switch. L. Kellner. No. 1,354,758; Oct. 5; v. 279; p. 62
Electric switch. L. Kellner. No. 1,354,759; Oct. 5; v. 279; p. 62.
Electric switch. L. Kellner. No. 1,354,760; Oct. 5; v. 279; p. 62.
Electric switch. L. Kellner. No. 1,354,762; Oct. 5; v. 279; p. 63.
Electric switch. L. Kellner. No. 1,354,763; Oct. 5; v. 279; p. 63.
Electric switch. E. G. Kermode. No. 1,349,573; Aug. 17; v. 277; p. 407.
Electric switch. C. J. Klein. No. 1,353,124; Sept. 14; v. 278; p. 310.
Electric switch. K. Knudsen. No. 1,328,798; Jan. 20; v. 270; p. 457.
Electric switch. T. L. Lee. No. 1,353,249; Sept. 21; v. 278; p. 394.
Electric switch. M. P. Maxwell and J. S. Lawson. No. 1,350,107; Aug. 17; v. 277; p. 509.
Electric switch. S. A. Meyers and C. F. Parker. No. 1,333,762; Mar. 16; v. 272; p. 413.
Electric switch. J. F. Montine. No. 1,358,093; Nov. 9; v. 280; p. 232.
Electric switch. M. S. Morse. No. 1,356,875; Oct. 26; v. 279; p. 616.
Electric switch. E. T. R. Murray and G. F. Shotter. No. 1,349,429; Aug. 10; v. 277; p. 305.
Electric switch. F. C. Naujoks. No. 1,344,925; June 29; v. 275; p. 896.
Electric switch. W. J. Newton. No. 1,346,553; July 13; v. 276; p. 304.
Electric switch N. W. Nutt. No. 1,351,214; Aug. 31; v. 277; p. 833.
Electric switch. D. L. O'Hara. No. 1,340,788; May 18; v. 274; p. 534.
Electric switch. V. T. Öhrström. No. 1,361,609; Dec. 7; v. 281; p. 127.
Electric switch. R. J. Parsons. No. 1,349,851; Aug. 17; v. 277; p. 460.
Electric switch. J. G. Peterson. No. 1,330,390; Feb. 10; v. 271; p. 227.
Electric switch. J. G. Peterson. No. 1,361,287; Dec. 7; v. 281; p. 61.
Electric switch. E. H. Piersen. No. 1,339,976; May 11; v. 274; p. 324.
Electric switch. C. D. Platt. No. 1,330,137; Feb. 10; v. 271; p. 180.
Electric switch. C. D. Platt. No. 1,333,185; Mar. 9; v. 272; p. 243.
Electric switch. C. D. Platt. No. 1,333,874; Mar. 16; v. 272; p. 433.
Electric switch. C. D. Platt. No. 1,337,469; Apr. 20; v. 273; p. 469.
Electric switch. F. G. Rawlings and A. H. McDaniel. No. 1,331,783; Feb. 24; v. 271; p. 577.
Electric switch. E. B. Reese. No. 1,332,574; Mar. 2; v. 272; p. 77.
Electric switch. W. Richter. No. 1,357,726; Nov. 2; v. 280; p. 100.
Electric switch. A. E. Rishel. No. 1,337,961; Apr. 20; v. 273; p. 563.
Electric switch. D. G. Roos. No. 1,342,229; June 1; v. 275; p. 121.
Electric switch. H. B. Stillman. No. 1,354,784; Oct. 5; v. 279; p. 67.
Electric switch. C. C. Stirling. No. 1,327,640; Jan. 13; v. 270; p. 203.
Electric switch. C. C. Stirling. No. 1,335,135; Mar. 30; v. 272; p. 778.
Electric switch. C. C. Stirling. No. 1,360,047; Nov. 23; v. 280; p. 708.
Electric switch. W. B. Templeton. No. 1,337,105; Apr. 13; v. 273; p. 326.
Electric switch. G. B. Thomas. No. 1,347,308; July 20; v. 276; p. 512.
Electric switch. W. D. Throop. No. 1,339,306; May 4; v. 274; p. 121.
Electric switch. E. B. Thurston. No. 1,352,927; Sept. 14; v. 278; p. 272.
Electric switch. J. R. Townsend. No. 1,337,628; Apr. 20; v. 273; p. 499.
Electric switch. F. T. Wheeler. No. 1,334,063; Mar. 16; v. 272; p. 469.
Electric switch. C. L. White. No. 1,336,455; Apr. 13; v. 273; p. 201.
Electric switch. G. H. Whittingham. No. 1,362,379; Dec. 14; v. 281; p. 325.
Electric switch. J. J. Wood. No. 1,360,852; Nov. 30; v. 280; p. 934.
Electric switch and box. C. H. Bissell. No. 1,350,486; Aug. 24; v. 277; p. 631.
Electric switch and fuse-box. L. F. Kries. No. 1,351,043; Aug. 31; v. 277; p. 800.
Electric switch, Combination. H. A. Jones. No. 1,340,230; May 18; v. 274; p. 429.
Electric switch controlled by railway rolling-stock. H. Karl. No. 1,329,773; Feb. 3; v. 271; p. 80.
Electric switch, Liquid-operated. W. H. Smith. No. 1,340,086; May 11; v. 274; p. 344.
Electric-switch lock. S. D. Livingston. No. 1,339,267; May 4; v. 274; p. 114.
Electric-switch lock. C. D. Platt. No. 1,344,958; June 29; v. 275; p. 901.
Electric-switch lock. R. G. Whitlock. No. 1,328,109; Jan. 13; v. 270; p. 291.
Electric-switch mechanism. H. Hubbell. No. 1,352,604; Sept. 14; v. 278; p. 207.
Electric switch or circuit-breaker. G. A. Burnham. No. 1,337,995; Apr. 27; v. 273; p. 638.
Electric switch, Thermo-. A. E. Doman. No. 1,347,686; July 27; v. 276; p. 643.
Electric switch, Thermodynamically-controlled. M. H. Baker. No. 1,328,482; Jan. 20; v. 270; p. 399.
Electric switches, Controlling mechanism for. C. D. Oversmith. No. 1,337,022; Apr. 13; v. 273; p. 310.
Electric switches, No-voltage release attachment for. G. A. Burnham. No. 1,343,961; June 22; v. 275; p. 642.
Electric switches, Safety device for. J. F. Burns. No. 1,357,762; Nov. 2; v. 280; p. 107.
Electric switches, Time-controlled mechanism for operating. T. W. South. No. 1,350,389; Aug. 24; v. 277; p. 611.
Electric system. M. C. Cosgray. No. 1,350,437; Aug. 24; v. 277; p. 620.
Electric system. J. L. Creveling. No. 1,328,321; Jan. 20; v. 270; p. 368.
Electric system. J. L. Creveling. No. 1,332,610; Mar. 2; v. 272; p. 83.
Electric system. J. L. Creveling. No. 1,336,619; Apr. 13; v. 273; p. 233.
Electric system. J. L. Creveling. No. 1,343,765; June 15; v. 275; p. 539.
Electric system. J. L. Creveling. No. 1,361,448; Dec. 7; v. 281; p. 95.

Digitized by Google

Alphabetical list of inventions—Continued.

Electric system. E. P. Larsh. No. 1,347,546; July 27; v. 276; p. 615.
Electric system, Automatically-controlled. F. W. Parkinson and C. M. Kimball. No. 1,330,135; Feb. 10; v. 271; p. 179.
Electric system of distribution and operating same. E. W. Allen and E. Taylor. No. 1,362,588; Dec. 21; v. 281; p. 417.
Electric terminal-clamp. A. C. Recker. No. 1,363,350; Dec. 28; v. 281; p. 606.
Electric terminals, Governor to control. A. J. Brookins. No. 1,328,490; Jan. 20; v. 270; p. 401.
Electric train-wire coupling. T. R. Brown. No. 1,349,405; Aug. 10; v. 277; p. 301.
Electric transformer. H. B. Brooks. No. 1,357,197; Oct. 26; v. 279; p. 678.
Electric treating and exercising machine. J. B. Kibler. No. 1,344,002; June 22; v. 275; p. 650.
Electric wall-switch, Ordinary. M. E. Callegaris. No. 1,331,955; Feb. 24; v. 271; p. 609.
Electric water-heater. W. D. Huff. No. 1,343,134; June 8; v. 275; p. 352.
Electric-wave transmission. M. I. Pupin and E. H. Armstrong. No. 1,334,165; Mar. 16; v. 272; p. 489.
Electric waves or oscillations, Generator of sustained. M. Latour. No. 1,354,312; Sept. 28; v. 278; p. 651.
Electric welding-machine. C. Redfield and C. C. Hartley. No. 1,362,962; Dec. 21; v. 281; p. 489.
Electric welding-machines, Current-regulator for. F. S. Stearns. No. 1,349,303; Aug. 10; v. 277; p. 281.
Electric-wire suspension-ring. T. A. Dissel. No. 1,331,248; Feb. 17; v. 271; p. 456.
Electric wires, Binding-post for. A. T. Baldwin. No. 1,357,926; Nov. 2; v. 280; p. 139.
Electric wires, Cord-terminal for. A. L. Emens. No. 1,335,943; Apr. 6; v. 273; p. 45.
Electric wires, Sectional non-rotative insulating-knob for supporting. A. M. Poindexter. No. 1,326,962; Jan. 6; v. 270; p. 16.
Electrical accumulator-plate. C. P. Elleson. No. 1,357,548; Nov. 2; v. 280; p. 65.
Electrical apparatus. J. Bijur. No. 1,330,618; Feb. 10; v. 271; p. 269.
Electrical apparatus. J. Bijur. No. 1,359,866; Nov. 23; v. 280; p. 672.
Electrical apparatus. D. Conlan, Jr. No. 1,363,394; Dec. 28; v. 281; p. 613.
Electrical apparatus. J. J. Frank. No. 1,342,995; June 8; v. 275; p. 324.
Electrical apparatus. C. M. Petersen and O. J. Boden. No. 1,346,606; July 13; v. 276; p. 314.
Electrical apparatus. W. I. Thomson. No. 1,336,764; Apr. 13; v. 273; p. 260.
Electrical apparatus. J. B. Wantz. No. 1,340,588; May 18; v. 274; p. 497.
Electrical apparatus, Casing. J. Wilkinson. No. 1,347,769; July 27; v. 276; p. 661.
Electrical apparatus, Casing and support for. W. O. Beck. No. 1,343,880; June 15; v. 275; p. 562.
Electrical apparatus, Control device for explosion-proof. C. W. Starker and C. H. Hodgkins. No. 1,347,879; July 27; v. 276; p. 682.
Electrical apparatus, Explosion-proof device for. C. W. Starker. No. 1,362,049; Dec. 14; v. 281; p. 261.
Electrical apparatus, Making cores for. M. Kubo. No. 1,345,786; July 6; v. 276; p. 90.
Electrical apparatus, Winding for. M. Unger. No. 1,362,375; Dec. 14; v. 281; p. 324.
Electrical appliance. W. A. Harvey. No. 1,339,847; May 11; v. 274; p. 300.
Electrical appliance. H. P. Hastings and J. J. Dossert. No. 1,345,768; July 6; v. 276; p. 86.
Electrical body-contact device. J. W. Murphy. No. 1,363,807; Dec. 28; v. 281; p. 694.
Electrical circuit-breaker, Automatic. H. E. Wadsworth and W. B. Ensign. No. 1,352,707; Sept. 14; v. 278; p. 228.
Electrical circuit-controller. F. Bechoff. No. 1,328,072; Jan. 13; v. 270; p. 284.
Electrical circuits, Method of and means for establishing. A. A. Radtke. No. 1,350,334; Aug. 24; v. 277; p. 600.
Electrical clamp. J. P. B. Fiske. No. 1,352,948; Sept. 14; v. 278; p. 276.
Electrical coil. A. W. Fisher and C. S. Snavely. No. 1,345,484; July 6; v. 276; p. 31.
Electrical coil. T. P. Giblin. No. 1,342,209; June 1; v. 275; p. 117.
Electrical comb. J. M. Brooks. No. 1,327,804; Jan. 13; v. 270; p. 234.
Electrical communication, Method of and apparatus for. D. G. McCaa. No. 1,344,275; June 22; v. 275; p. 703.
Electrical commutator. R. S. Dahl. No. 1,362,084; Dec. 14; v. 281; p. 268.
Electrical compensator. A. A. Tirrill. No. 1,344,742; June 29; v. 275; p. 860.
Electrical compensator. A. A. Tirrill. No. 1,344,743; June 29; v. 275; p. 861.
Electrical condenser. E. A. Bayles and H. Higham. No. 1,346,694; July 13; v. 276; p. 332.
Electrical condenser. W. C. Brinton, Jr. No. 1,337,505, Apr. 20; v. 273; p. 476.
Electrical conductor. H. A. Douglas. No. 1,339,694; May 11; v. 274; p. 271.
Electrical conductor. H. George and J. Hebert. No. 1,334,850; Mar. 23; v. 272; p. 664.
Electrical-conductor connector. H. F. Maxim. No. 1,336,850; Apr. 13; v. 273; p. 278.
Electrical conductors, Insulated support for. L. Steinberger and G. Hill. No. 1,342,304; June 1; v. 275; p. 135.
Electrical conductors, Insulated support for. L. Steinberger and G. Hill. No. 1,342,305; June 1; v. 275; p. 136.
Electrical conductors, Insulated support for. L. Steinberger and G. Hill. No. 1,342,306; June 1; v. 275; p. 136.
Electrical conductors, Insulated support for. L. Steinberger and G. Hill. No. 1,342,307; June 1; v. 275; p. 136.
Electrical conductors, Insulated support for. L. Steinberger and G. Hill. No. 1,342,309; June 1; v. 275; p. 136.
Electrical conductors, Insulated support for. L. Steinberger. No. 1,342,310; June 1; v. 275; p. 136.
Electrical conductors, Insulated support for. L. Steinberger. No. 1,342,311; June 1; v. 275; p. 136.
Electrical conductors, Insulated support for. L. Steinberger. No. 1,342,312; June 1; v. 275; p. 136.
Electrical conductors, Method of and apparatus for fault location on. C. E. Rogers. No. 1,329,432; Feb. 3; v. 271; p. 16.
Electrical conductors, Water-tight connection for. R. B. Benjamin. No. 1,345,473; July 6; v. 276; p. 29.
Electrical connecting and supporting device. E. C. White. No. 1,361,425; Dec. 7; v. 281; p. 89.
Electrical connecting and supporting device. E. C. White. No. 1,361,426; Dec. 7; v. 281; p. 90.
Electrical connecting and supporting device. E. C. White. No. 1,362,067; Dec. 14; v. 281; p. 264.
Electrical connecting and supporting device. E. C. White. No. 1,363,942; Dec. 28; v. 281; p. 720.
Electrical connecting device. R. B. Benjamin. No. 1,336,608; Apr. 13; v. 273; p. 231.
Electrical connecting device. M. Sidon. No. 1,351,191; Aug. 31; v. 277; p. 829.
Electrical connection. J. H. George. No. 1,348,128; July 27; v. 276; p. 731.
Electrical connection. E. A. Hawthorne. No. 1,353,748; Sept. 21; v. 278; p. 494.
Electrical connections, Means for establishing. A. L. Eustice. No. 1,350,444; Aug. 24; v. 277; p. 622.
Electrical connector. V. H. Broc. No. 1,352,499; Sept. 14; v. 278; p. 187.
Electrical connector. G. A. Mead. No. 1,336,475; Apr. 13; v. 273; p. 205.
Electrical connector. J. R. Pattee. No. 1,341,339; May 25; v. 274; p. 712.
Electrical connector. M. W. Robertson. No. 1,347,590; July 27; v. 276; p. 624.
Electrical connector. H. B. Sherman. No. 1,352,032; Sept. 7; v. 278; p. 62.
Electrical connector. C. R. Wassell. No. 1,336,801; Apr. 13; v. 273; p. 268.
Electrical-contact system. G. E. Palmer. No. 1,330,837; Feb. 10; v. 271; p. 217.
Electrical control apparatus. C. H. Koehler. No. 1,358,082; Nov. 9; v. 280; p. 230.
Electrical-control system. C. F. Kettering. No. 1,351,910; Sept. 7; v. 278; p. 40.
Electrical controller. W. H. Holder. No. 1,352,896; Sept. 14; v. 278; p. 266.
Electrical controllers and switches, Contact-tip for contact-fingers for. C. Thompson. No. 1,330,561; Feb. 10; v. 271; p. 259.
Electrical controllers, Attachment for. E. C. Raney. No. 1,363,813; Dec. 28; v. 281; p. 696.
Electrical controlling system. F. B. Rae. No. 1,356,012; Oct. 19; v. 279; p. 399.
Electrical coupling. A. von Post. No. 1,329,448; Feb. 3; v. 271; p. 19.
Electrical detecting machine. E. L. Welch. No. 1,342,835; June 8; v. 275; p. 293.
Electrical device. P. Mac Gahan. No. 1,339,902; May 11; v. 274; p. 310.
Electrical discharge tube. C. E. Green and J. H. Clough. No. 1,334,150; Mar. 16; v. 272; p. 486.
Electrical display-signal, Auto. M. Skulski. No. 1,360,039; Nov. 23; v. 280; p. 706.
Electrical distribution and control, System of. C. F. Kettering. No. 1,337,363; Apr. 20; v. 273; p. 449.
Electrical distribution system. T. A. E. Belt. No. 1,362,593; Dec. 21; v. 281; p. 418.
Electrical distribution system. W. A. Turbayne. No. 1,343,597; June 15; v. 275; p. 505.
Electrical distribution system. L. A. Watson. No. 1,353,869; Sept. 28; v. 278; p. 561.
Electrical distribution system. L. A. Watson. No. 1,353,870; Sept. 28; v. 278; p. 562.
Electrical distribution, System of. J. B. N. Cardoza. No. 1,362,844; Dec. 21; v. 281; p. 468.
Electrical energy, Distribution of. C. Grover. No. 1,337,129; Apr. 13; v. 273; p. 330.
Electrical energy, Method of and means for controlling. E. F. W. Alexanderson. No. 1,340,101; May 11; v. 274; p. 348.
Electrical fitting. M. F. Finkelstein. No. 1,336,290; Apr. 6; v. 273; p. 110.

Digitized by Google

Electrical fixture. F. L. Butler. No. 1,347,531; July 27; v. 276; p. 612.
Electrical fixture, Extensible. R. E. Shaw. No. 1,348,752; Aug. 3; v. 277; p. 119.
Electrical furnace. R. S. Wile. No. 1,345,976; July 6; v. 276; p. 128.
Electrical generating system. W. W. Bucher. No. 1,332,707; Mar. 2; v. 272; p. 102.
Electrical generation and control, System of. C. F. Kettering. No. 1,337,364; Apr. 20; v. 273; p. 449.
Electrical generation and control, System of. C. F. Kettering. No. 1,338,987; May 4; v. 274; p. 62.
Electrical generation, System of. C. F. Kettering and W. A. Chryst. No. 1,341,327; May 25; v. 274; p. 709.
Electrical generator with counter compounding. R. Peugeot. No. 1,363,167; Dec. 21; v. 281; p. 530.
Electrical-heater resistance element. W. E. Gardner. No. 1,338,294; Apr. 27; v. 273; p. 695.
Electrical ignition system. F. Conrad. No. 1,352,432; Sept. 14; v. 278; p. 173.
Electrical ignition system. F. Conrad. No. 1,352,433; Sept. 14; v. 278; p. 173.
Electrical indicator. F. A. Muschenheim and F. W. Blasdale. No. 1,327,837; Jan. 13; v. 270; p. 240.
Electrical indicator. F. W. Temple. No. 1,347,421; July 20; v. 276; p. 534.
Electrical instruments, Protecting device for. M. M. Davis. No. 1,352,117; Sept. 7; v. 278; p. 78.
Electrical insulating and heat-conducting materials, Manufacturing. R. Earle. No. 1,358,366; Nov. 9; v. 280; p. 287.
Electrical oscillations, Apparatus for propagating and intensifying. J. J. Callaghan. No. 1,347,440; July 20; v. 276; p. 538.
Electrical oscillations, Method of and means for generating low-frequency. E. O. Scriven. No. 1,357,657; Nov. 2; v. 280; p. 86.
Electrical oscillator. F. K. Vreeland. No. 1,340,193; May 18; v. 274; p. 423.
Electrical phenomena, System for recording. L. S. Wells. No. 1,340,197; May 18; v. 274; p. 423.
Electrical plug. W. L. Smith. No. 1,329,555; Feb. 3; v. 271; p. 40.
Electrical position-indicator. H. L. Tanner. No. 1,332,312; Mar. 2; v. 272; p. 26.
Electrical precipitating system. L. W. Chubb. No. 1,349,362; Aug. 10; v. 277; p. 292.
Electrical protective apparatus. F. R. Parker. No. 1,350,329; Aug. 24; v. 277; p. 599.
Electrical protective device. C. L. Fortescue. No. 1,344,759; June 29; v. 275; p. 864.
Electrical protective device. C. L. Fortescue. No. 1,358,718; Nov. 16; v. 280; p. 402.
Electrical protective device. H. Pearce. No. 1,349,385; Aug. 10; v. 277; p. 297.
Electrical protective device. B. H. Smith. No. 1,354,142; Sept. 28; v. 278; p. 617.
Electrical receiving device. R. W. Deardorff. No. 1,258,138; Nov. 9; v. 280; p. 241.
Electrical receptacle. R. B. Benjamin. No. 1,328,785; Jan. 20; v. 270; p. 455.
Electrical receptacle. R. B. Benjamin. No. 1,355,301; Oct. 12; v. 279; p. 222.
Electrical regulating-switch. C. H. Coles. No. 1,349,818; Aug. 17; v. 277; p. 454.
Electrical regulation system. W. L. Bliss. No. 1,331,284; Feb. 17; v. 271; p. 453.
Electrical regulation system. W. A. Turbayne. No. 1,335,141; Mar. 30; v. 272; p. 779.
Electrical regulation system. W. A. Turbane. No. 1,355,869; Oct. 19; v. 279; p. 372.
Electrical regulator. C. A. Boddie. No. 1,354,160; Sept. 28; v. 278; p. 621.
Electrical regulator. A. A. Tirrill. No. 1,339,936; May 11; v. 274; p. 317.
Electrical resistance. F. Buchanan. No. 1,359,960; Nov. 23; v. 280; p. 694.
Electrical resistance. J. Collinson. No. 1,332,030; Feb. 24; v. 271; p. 624.
Electrical resistance. G. H. Dorgeloh. No. 1,360,904; Nov. 30; v. 280; p. 943.
Electrical resistance element. F. M. Goddard. No. 1,356,617; Oct. 26; v. 279; p. 566.
Electrical resistance units, Making. C. Wirt. No. 1,338,717; May 4; v. 274; p. 13.
Electrical riveting, Connecting plates by. A. B. Rypinski. No. 1,329,144; Jan. 27; v. 270; p. 552.
Electrical separation of substances in suspension in fluids, Apparatus for the. G. Gallot and P. Poussin. No. 1,332,981; Mar. 9; v. 272; p. 206.
Electrical starting and ignition system. J. K. Delano. (Reissue.) No. 14,842; Apr. 20; v. 273; p. 568.
Electrical starting apparatus. J. Bijur. No. 1,349,870; Aug. 17; v. 277; p. 464.
Electrical superheater. S. D. Colvin. No. 1,346,741; July 13; v. 276; p. 341.
Electrical supply apparatus. M. Alden. No. 1,330,153; Feb. 10; v. 271; p. 183.
Electrical switch. L. Airhart. No. 1,339,911; May 11; v. 274; p. 312.
Electrical switch. B. D. Horton. No. 1,335,834; Apr. 6; v. 273; p. 24.
Electrical switch. B. D. Horton and W. P. Hammond. (Reissue.) No. 14,942; Aug. 31; v. 277; p. 935.
Electrical switch. H. R. Stevens and R. L. Rockwell. No. 1,345,899; July 6; v. 276; p. 112.
Electrical switching system. E. E. F. Creighton. No. 1,331,050; Feb. 17; v. 271; p. 420.
Electrical switching system. W. M. Scott. No. 1,353,185; Sept. 21; v. 278; p. 383.
Electrical system. J. M. Brown. No. 1,343,345; June 15; v. 275; p. 456.
Electrical system. S. H. Eckmann. No. 1,349,371; Aug. 10; v. 277; p. 294.
Electrical system. H. H. Gordon. No. 1,328,374; Jan. 20; v. 270; p. 378.
Electrical system. F. D. Hallock. No. 1,348,943; Aug. 10; v. 277; p. 209.
Electrical system. J. N. Mahoney and W. M. Austin. No. 1,363,666; Dec. 28; v. 281; p. 667.
Electrical system. R. Varley. No. 1,344,463; June 22; v. 275; p. 741.
Electrical system. T. W. Varley. No. 1,358,901; Nov. 16; v. 280; p. 439.
Electrical system. T. C. Wurts. No. 1,363,633; Dec. 28; v. 281; p. 660.
Electrical system and charging same, Low-potential. H. K. Wood. No. 1,361,432; Dec. 7; v. 281; p. 91.
Electrical system of distribution. C. W. Place. No. 1,362,637; Dec. 21; v. 281; p. 427.
Electrical systems, Automatic protective gear for. M. Rosebourne and F. A. Couse. No. 1,329,255; Jan. 27; v. 270; p. 573.
Electrical test set. E. A. Johnson. No. 1,348,424; Aug. 3; v. 277; p. 58.
Electrical testing device. C. L. Begas. No. 1,351,988; Sept. 7; v. 278; p. 55.
Electrical testing device. R. C. Bierbower. No. 1,349,655; Aug. 17; v. 277; p. 423.
Electrical testing device. R. C. Bierbower. No. 1,349,656; Aug. 17; v. 277; p. 423.
Electrical transformer. S. Z. de Ferranti. No. 1,336,894; Apr. 13; v. 273; p. 286.
Electrical transmission-lines, System for protecting. W. Petersen and R. Rudenberg. No. 1,335,256; Mar. 30; v. 272; p. 800.
Electrical transmitting and indicating apparatus. E. A. Graham. No. 1,354,099; Sept. 28; v. 278; p. 609.
Electrical transmitting device. H. K. Harris. No. 1,335,578; Mar. 30; v. 272; p. 860.
Electrical windings, Reinforcement for. W. S. Moody. No. 1,331,077; Feb. 17; v. 271; p. 425.
Electrically charging fluids, Apparatus for. E. E. Littlefield. No. 1,360,654; Nov. 30; v. 280; p. 896.
Electrically-controlled combustion system. T. L. R. d'Orville. No. 1,334,440; Mar. 23; v. 272; p. 586.
Electrically-heated draft device. W. A. Browne. No. 1,338,611; Apr. 27; v. 273; p. 753.
Electrically-heated instrument. F. Kuhn and L. H. Thomas. No. 1,356,071; Oct. 19; v. 279; p. 412.
Electrically-heated perforator. A. B. Campbell. No. 1,361,442; Dec. 7; v. 281; p. 94.
Electrically-operated vibratory motor. C. J. Henschel. No. 1,336,519; Apr. 13; v. 273; p. 213.
Electricity-meter. J. Harris. No. 1,332,464; Mar. 2; v. 272; p. 55.
Electricity-meter of the induction-motor type for three-phase alternating current. A. Larsen. No. 1,355,153; Oct. 12; v. 279; p. 192.
Electricity transforming and converting apparatus. H. M. Hobart. No. 1,337,071; Apr. 13; v. 273; p. 320.
Electricity transforming and converting apparatus. C. W. Stone and H. M. Hobart. No. 1,337,100; Apr. 13; v. 273; p. 325.
Electrochemical analytical control. P. E. Edelman. No. 1,341,790; June 1; v. 275; p. 35.
Electroconducting-coil. C. W. Dunham. No. 1,340,027; May 11; v. 274; p. 334.
Electrode. J. K. Forshee. No 1,337,894; Apr 20; v. 273; p. 550.
Electrode. I. H. Levin. No. 1,360,545; Nov. 30; v. 280; p. 874.
Electrode. G. W. Peters and O. F. Alkire. No. 1,356,468; Oct. 19; v. 279; p. 490.
Electrode. K. Tornberg. No. 1,334,820; Mar. 23; v. 272; p. 658.
Electrode-adapter. R. Baker. No. 1,336,603; Apr. 13; v. 273; p. 230.
Electrode-adapter. C. H. Hazelton. No. 1,330,532; Feb. 10; v. 271; p. 253.
Electrode, Arc-welding. J. W. Fay. No. 1,359,976; Nov. 23; v. 280; p. 694.
Electrode, Carbon comb-. A. Papini. No. 1,335,021; Mar. 30; v. 272; p. 756.
Electrode for arc-welding. R. C. Knoll, F. J. Rode, and C. Kotchi. No. 1,354,664; Oct. 5; v. 279; p. 44.
Electrode for searchlights and making same. E. A. Sperry. No. 1,342,398; June 1; v. 275; p. 153.
Electrode for secondary or storage batteries. J. M. Allen. No. 1,347,832; July 27; v. 276; p. 672.
Electrode for soldering and depositing metals by the electric arc. E. H. Jones. No. 1,341,647; June 1; v. 275; p. 6.

Digitized by Google

Alphabetical list of inventions—Continued.

Electrode for storage batteries. R. Saville. No. 1,354,513; Oct. 5; v. 279; p. 13.
Electrode-holder. R. H. Chadwick. No. 1,347,776; July 27; v. 276; p. 662.
Electrode-holder. W. E. Clements. No. 1,353,028; Sept. 14; v. 278; p. 292.
Electrode-holder. L. A. Eckenrode. No. 1,329,384; Feb. 3; v. 271; p. 8.
Electrode-holder. J. Hughes. No. 1,335,895; Apr. 6; v. 273; p. 36.
Electrode-holder. E. Kaaten. No. 1,339,111; May 4; v. 274; p. 87.
Electrode-holder. F. A. Rappold and C. R. Tremaine. No. 1,360,017; Nov. 23; v. 280; p. 702.
Electrode-holder. B. D. Saklatwalla and A. N. Anderson. No. 1,363,815; Dec. 28; v. 281; p. 696.
Electrode-holder. T. Willard. No. 1,348,530; Aug. 3; v. 277; p. 77.
Electrode-holders, Adapter for. O. J. Marshick. No. 1,348,434; Aug. 3; v. 277; p. 60.
Electrode, Spark-plug. W. S. Thomas. No. 1,359,767; Nov. 23; v. 280; p. 653.
Electrodes, Arrangement of electric-furnace. T. M. Hoidsten and A. H. Ingelsrud. No. 1,359,067; Nov. 16; v. 280; p. 470.
Electrodes for searchlights, Operating. E. A. Sperry. No. 1,357,827; Nov. 2; v. 280; p. 120.
Electrodes for soldering and depositing metals by the electric arc, Manufacture of. E. H. Jones. No. 1,339,515; May 11; v. 274; p. 237.
Electrodes in ionic tubes, Means for supporting. F. P. Driver. No. 1,335,159; Mar. 30; v. 272; p. 783.
Electrodes, Means for removing deposits from. A. F. Meston. No. 1,339,471; May 11; v. 274; p. 228.
Electrolier. L. Roth. No. 1,344,452; June 22; v. 275; p. 739.
Electrolier. L. M. Wood. No. 1,344,251; June 22; v. 275; p. 698.
Electrolier structure. R. J. Ward. No. 1,362,206; Dec. 14; v. 281; p. 392.
Electrolysis of aqueous solutions by means of propulsive electrodes. A. Luib and E. Steinbuch. No. 1,354,498; Oct. 5; v. 279; p. 10.
Electrolyte, Making alkaline gelatinous. G. S. Engle. No. 1,356,434; Oct. 19; v. 279; p. 483.
Electrolytes for electrical etching, Composition for. H. J. Weeks. No. 1,362,159; Dec. 14; v. 281; p. 282.
Electrolytic alternating-current chemical rectifier. L. E. Seeley. No. 1,339,907; May 11; v. 274; p. 311.
Electrolytic apparatus. E. O. Benjamin. No. 1,328,981; Jan. 27; v. 270; p. 522.
Electrolytic apparatus. E. O. Benjamin. No. 1,344,220; June 22; v. 275; p. 692.
Electrolytic apparatus. W. E. Greenawalt. No. 1,347,088; July 20; v. 276; p. 468.
Electrolytic apparatus. W. E. Greenawalt. No. 1,353,995; Sept. 28; v. 278; p. 587.
Electrolytic apparatus. I. H. Levin. No. 1,360,541; Nov. 30; v. 280; p. 873.
Electrolytic apparatus. I. H. Levin. No. 1,360,542; Nov. 30; v. 280; p. 873.
Electrolytic apparatus. C. M. Walter. No. 1,353,194; Sept. 21; v. 278; p. 384.
Electrolytic apparatus. V. M. Weaver. No. 1,329,315; Jan. 27; v. 270; p. 583.
Electrolytic apparatus and method. M. M. Merritt. No. 1,335,174; Mar. 30; v. 272; p. 785.
Electrolytic apparatus and method. M. M. Merritt. No. 1,335,175; Mar. 30; v. 272; p. 785.
Electrolytic apparatus and method. M. M. Merritt. No. 1,335,176; Mar. 30; v. 272; p. 786.
Electrolytic cell. E. A. Allen. No. 1,351,886; Sept. 7; v. 278; p. 35.
Electrolytic cell. H. I. Allen. No. 1,355,116; Oct. 12; v. 279; p. 185.
Electrolytic cell. H. I. Allen and K. R. Fox. No. 1,349,597; Aug. 17; v. 277; p. 411.
Electrolytic cell. F. H. Buck and P. McRae. No. 1,363,228; Dec. 28; v. 281; p. 583.
Electrolytic cell. L. W. Chubb. No. 1,344,752; June 29; v. 275; p. 863.
Electrolytic cell. L. W. Chubb. No. 1,344,753; June 29; v. 275; p. 863.
Electrolytic cell. L. W. Chubb. No. 1,348,207; Aug. 3; v. 277; p. 14.
Electrolytic cell. J. Gerstle. No. 1,342,378; June 1; v. 275; p. 149.
Electrolytic cell. A. M. Griffin. No. 1,327,094; Jan. 6; v. 270; p. 41.
Electrolytic cell. H. C. Jenkins. No. 1,335,338; Mar. 30; v. 272; p. 816.
Electrolytic cell. O. H. Jewell. No. 1,357,400; Nov. 2; v. 280; p. 38.
Electrolytic cell. E. A. Le Sueur. No. 1,331,571; Feb. 24; v. 271; p. 537.
Electrolytic cell. E. A. Le Sueur. No. 1,350,716; Nov. 23; v. 280; p. 642.
Electrolytic cell. I. H. Levin. No. 1,360,544; Nov. 30; v. 280; p. 874.
Electrolytic cell. P. McDorman. No. 1,342,336; June 1; v. 275; p. 141.
Electrolytic cell. R. M. Shaw. No. 1,346,849; July 20; v. 276; p. 421.
Electrolytic cell. U. C. Tainton. No. 1,334,419; Mar. 23; v. 272; p. 583.
Electrolytic cell. B. Thomas. No. 1,359,002; Nov. 16; v. 280; p. 458.
Electrolytic cell. G. K. Thomas. No. 1,360,055; Nov. 23; v. 280; p. 709.
Electrolytic cell. T. B. Walker. No. 1,357,485; Nov. 2; v. 280; p. 53.
Electrolytic cell and using same. W. M. Jewell. No. 1,357,401; Nov. 2; v. 280; p. 38.
Electrolytic-cell indicator. I. H. Levin. No. 1,361,473; Dec. 7; v. 281; p. 100.
Electrolytic cells, Diaphragm for. M. W. Krejčí and G. E. Johnson. No. 1,358,858; Nov. 16; v. 280; p. 430.
Electrolytic cells, Filling apparatus for. J. H. Fischer. No. 1,353,332; Sept. 21; v. 278; p. 410.
Electrolytic cells, Plate for. L. W. Chubb. No. 1,348,206; Aug. 3; v. 277; p. 14.
Electrolytic cells, Preparation of plates for. J. Coulson. No. 1,330,581; Feb. 10; v. 271; p. 262.
Electrolytic cells, Water-feed attachment for. I. H. Levin. No. 1,360,543; Nov. 30; v. 280; p. 873.
Electrolytic meter. H. S. Hatfield and G. Hookham. No. 1,346,090; July 6; v. 276; p. 151.
Electrolytic method and apparatus. M. M. Merritt. No. 1,335,177; Mar. 30; v. 272; p. 786.
Electrolytic method, Apparatus, and product. M. M. Merritt. No. 1,363,186; Dec. 21; v. 281; p. 534.
Electrolytic oscillator. E. G. Gage. No. 1,329,761; Feb. 3; v. 271; p. 77.
Electrolytic pickling process. J. Coulson. No. 1,347,897; July 27; v. 276; p. 686.
Electrolytic process. W. E. Greenawalt. No. 1,340,826; May 18; v. 274; p. 542.
Electrolytic process and product. M. M. Merritt. No. 1,335,846; Apr. 6; v. 273; p. 26.
Electrolyzing apparatus. C. N. Riiber. No. 1,337,724; Apr. 20; v. 273; p. 518.
Electrolyzing cobalt solutions. E. B. Cutten. No. 1,344,869; June 29; v. 275; p. 885.
Electromagnet. C. E. Avery. No. 1,338,548; Apr. 27; v. 273; p. 742.
Electromagnet. G. C. Cummings. No. 1,333,247; Mar. 9; v. 272; p. 255.
Electromagnet. L. Larsen. No. 1,345,450; July 6; v. 276; p. 24.
Electromagnet, Alternating-current. G. E. Palmer. No. 1,343,404; June 15; v. 275; p. 467.
Electromagnet, Alternating-current. E. B. Thurston. No. 1,342,926; Sept. 14; v. 278; p. 272.
Electromagnet apparatus. H. A. Lewis. No. 1,339,900; May 11; v. 274; p. 310.
Electromagnet, Differentially-wound. H. K. Beasley. No. 1,355,085; Oct. 5; v. 279; p. 126.
Electromagnet, Means for adjusting and indicating the travel of machines or instruments operated by the core or armature of an. E. C. Villiers. No. 1,361,935; Dec. 14; v. 281; p. 238.
Electromagnetic brake. H. V. James. No. 1,327,046; Jan. 6; v. 270; p. 32.
Electromagnetic clutch and brake. W. C. Huebner. No. 1,334,759; Mar. 23; v. 272; p. 646.
Electromagnetic device. C. W. Burrows. No. 1,340,698; May 18; v. 274; p. 518.
Electromagnetic device. D. D. Miller. No. 1,339,778; May 11; v. 274; p. 287.
Electromagnetic device. E. J. Murphy. No. 1,352,307; Sept. 7; v. 278; p. 114.
Electromagnetic device. A. H. Packer and F. H. Patten. No. 1,354,208; Sept. 28; v. 278; p. 630.
Electromagnetic device. G. Plaisant. No. 1,334,258; Mar. 16; v. 272; p. 505.
Electromagnetic sounding device. H. Gernsback. No. 1,354,389; Sept. 28; v. 278; p. 667.
Electromagnetic switch. A. A. Adams and F. A. Emery. No. 1,356,501; Oct. 19; v. 279; p. 495.
Electromagnetic switch. J. Eaton. No. 1,334,144; Mar. 16; v. 272; p. 485.
Electromagnetic switch. H. C. Hastings. No. 1,331,063; Feb. 17; v. 271; p. 423.
Electromagnetic switch. H. C. Hastings. No. 1,331,064; Feb. 17; v. 271; p. 423.
Electromagnetic switch. L. E. Hutt. No. 1,337,072; Apr. 13; v. 273; p. 320.
Electromagnetic switch. F. L. Stone. No. 1,331,882; Feb. 24; v. 271; p. 596.
Electromagnetic-wave navigational system. J. Erskine-Murray and J. Robinson. No. 1,342,257; June 1; v. 275; p. 126.
Electromagnetic-wave navigational system. J. Robinson. No. 1,357,210; Oct. 26; v. 279; p. 681.
Electromagnetically-controlled brake. B. E. Fernow, Jr. No. 1,338,980; May 4; v. 274; p. 61.
Electromagnetically-operated device. H. R. Canfield. No. 1,354,880; Oct. 5; v. 279; p. 86.
Electromagnetically-operated device. H. R. Canfield. No. 1,354,881; Oct. 5; v. 279; p. 87.
Electromagnetically-operated device. H. R. Canfield. No. 1,354,882; Oct. 5; v. 279; p. 87.
Electromagnetically-operated device. H. R. Canfield. No. 1,354,883; Oct. 5; v. 279; p. 87.
Electromechanical jack. E. L. Monnot. No. 1,363,991; Dec. 28; v. 281; p. 730.

Digitized by Google

Electromechanical propelling and transmitting mechanism. A. F. Clark. No. 1,347,250; July 20; v. 276; p. 500.
Electromechanical switch. W. J. Burchett. No. 1,339,844; May 11; v. 274; p. 299.
Electromechanical switch. W. J. Burchett. No. 1,339,845; May 11; v. 274; p. 299.
Electrometallurgical furnace. F. Louvrier. No. 1,342,636; June 8; v. 275; p. 252.
Electromotive device. G. M. Albrecht. No. 1,344,196; June 22; v. 275; p. 688.
Electromotive device. G. M. Albrecht. No. 1,344,197; June 22; v. 275; p. 688.
Electroplating. T. A. Edison. No. 1,359,972; Nov. 23; v. 280; p. 693.
Electroplating. J. S. Groff. No. 1,364,051; Dec. 28; v. 281; p. 741.
Electroplating apparatus. W. Dietzel. No. 1,349,549; Aug. 10; v. 277; p. 320.
Electroplating apparatus. F. G. Purinton. No. 1,359,273; Nov. 16; v. 280; p. 508.
Electroplating, Apparatus for. G. C. Pinger. No. 1,336,052; Apr. 6; v. 273; p. 66.
Electroplating, Holder for. H. M. Blaetz. No. 1,354,234; Sept. 28; v. 278; p. 636.
Electroplating nonconducting substances with copper. U. Unno. No. 1,352,331; Sept. 7; v. 278; p. 118.
Electropneumatic brake. W. V. Turner. No. 1,339,681; May 11; v. 274; p. 269.
Electropneumatic control. G. P. Finnigan. No. 1,346,882; July 20; v. 276; p. 428.
Electrotherapeutic apparatus. W. L. Carlson and E. C. Hanson. No. 1,338,812; May 4; v. 274; p. 30.
Electrotherapeutic apparatus. J. H. Eastman. No. 1,345,537; July 6; v. 276; p. 41.
Electrothermal blanket. P. E. Charles. No. 1,356,965; Oct. 26; v. 279; p. 634.
Electrothermostatic-controlled mechanism. E. V. Hartford. No. 1,349,954; Aug. 17; v. 277; p. 480.
Electrotype and stereotype shaving machines, Safety plate-holder for. C. N. Smith. No. 1,349,736; Aug. 17; v. 277; p. 439.
Electrotypers, Stopping-out machine for. P. F. Haggerty. No. 1,348,492; Aug. 3; v. 277; p. 70.
Elevating and conveying apparatus. G. M. French and W. B. Pavey. No. 1,360,917; Nov. 30; v. 280; p. 946.
Elevating apparatus. H. O. Harding. No. 1,360,212; Nov. 23; v. 280; p. 740.
Elevating device, Wheeled. D. E. Hennessy. No. 1,360,112; Nov. 23; v. 280; p. 721.
Elevating or conveying boxes or other articles, Apparatus for. M. H. Matthews. No. 1,361,273; Dec. 7; v. 281; p. 58.
Elevating or lowering apparatus, Automatic. F. R. House. No. 1,359,993; Nov. 23; v. 280; p. 697.
Elevator: *See*—
Bucket elevator.
Casing-elevator.
Electric elevator.
Grain-elevator.
Hay-elevator.
Hydraulic elevator.
Inclined elevator.
Portable elevator.
Silo-elevator.
Stairway-elevator.
Sucker-rod elevator.
Tray-elevator.
Wood-rod elevator.
Elevator. D. A. Beaudry. No. 1,335,719; Apr. 6; v. 273; p. 3.
Elevator. V. H. Felt. No. 1,338,127; Apr. 27; v. 273; p. 664.
Elevator. B. E. Getz. No. 1,353,336; Sept. 21; v 278; p. 411.
Elevator. E. B. Poole. No. 1,361,490; Dec. 7; v. 281; p. 103.
Elevator. G. B. Read. No. 1,340,253; May 18; v. 274; p. 433.
Elevator. J. J. Sproul. No. 1,326,984; Jan. 6; v. 270; p. 20.
Elevator. B. J. Steen. No. 1,328,602; Jan. 20; v. 270; p. 421.
Elevator. T. J. Sturtevant and W. T. Doyle. No. 1,342,470; June 8; v. 275; p. 220.
Elevator. G. M. Williams. No. 1,359,641; Nov. 23; v. 280; p. 627.
Elevator attachment. A. A. Kuehlhorn. No. 1,328,633; Jan. 20; v. 270; p. 427.
Elevator-belt punch. J. A. Packheiser. No. 1,345,395; July 6; v. 276; p. 13.
Elevator-booster for flour-conveyers. E. D. Tschache. No. 1,361,294; Dec. 7; v. 281; p. 62.
Elevator-boots, Belt-tightener for. T. S. Grimes. No. 1,358,437; Nov. 9; v. 280; p. 302.
Elevator-cars, Controller for. B. Wexler. No. 1,357,014; Oct. 26; v. 279; p. 643.
Elevator-cars, Controlling mechanism for. T. N. McNish. No. 1,356,994; Oct. 26; v. 279; p. 639.
Elevator-cars, Controlling mechanism for. C. W. Peelle. No. 1,356,998; Oct. 26; v. 279; p. 640.
Elevator-control system. H. C. Randall. No. 1,347,711; July 27; v. 276; p. 648.
Elevator-controlling system, Electric. C. S. Brown. No. 1,327,421; Jan. 6; v. 270; p. 100.
Elevator device, Climbing-. J. Hunt. No. 1,348,138; July 27; v. 276; p. 733.
Elevator-door lock. F. A. Boedtcher. No. 1,350,698; Aug. 24; v. 277; p. 671.
Elevator-door-operating devices, Push-button control system for. F. Johnson. No. 1,329,712; Feb. 3; v. 271; p. 68.
Elevator-gate device. E. B. Thurston. No. 1,330,412; Feb. 10; v. 271; p. 231.
Elevator interlocking device. T. W. Jenkins. No. 1,336,748; Apr. 13; v. 273; p. 257.
Elevator-lock. E. S. Miller. No. 1,340,664; May 18; v. 274; p. 512.
Elevator lock, Electromagnetic. W. J. Wigmore. No. 1,344,430; June 22; v. 275; p. 734.
Elevator mechanism. J. A. Pickens and W. F. Hester. No. 1,342,596; June 8; v. 275; p. 245.
Elevator safety apparatus. G. P. Barker and O. E. Underwood. No. 1,351,827; Sept. 7; v. 278; p. 22.
Elevator safety attachment. C. Liddicoat. No. 1,360,653; Nov. 30; v. 280; p. 895.
Elevator safety attachment. R. L. Stubbs. No. 1,336,664; Apr. 13; v. 273; p. 241.
Elevator safety-contact. J. M. Coote. No. 1,353,148; Sept. 21; v. 278; p. 375.
Elevator safety device. G. Alfano. No. 1,327,513; Jan. 6; v. 270; p. 118.
Elevator safety device. A. J. Barrett. No. 1,349,313; Aug. 10; v. 277; p. 283.
Elevator safety device. H. Bleymehl. No. 1,348,472; Aug. 3; v. 277; p. 67.
Elevator safety device. L. Courty. No. 1,341,112; May 25; v 274; p. 668.
Elevator safety device. A. Heisler. No. 1,358,734; Nov. 16; v. 280; p. 406.
Elevator safety device. J. R. Stroud. No. 1,336,170; Apr. 6; v. 273; p. 88.
Elevator safety-lock. J. Mortensen. No. 1,356,108; Oct. 19; v. 279; p. 419.
Elevator safety mechanism. C. P. Beaver. No. 1,348,201; Aug. 3; v. 277; p. 13.
Elevator safety system. W. T. Dunford. No. 1,344,266; June 22; v. 275; p. 701.
Elevator-shaft doors, Safety mechanism for. A. J. Rosentreter. No. 1,353,851; Sept. 28; v. 278; p. 558.
Elevator-shaft doors, Safety mechanism for. A. J. Rosentreter. No. 1,353,852; Sept. 28; v. 278; p. 558.
Elevator-shafts, Removable flooring for. W. J. Morrin. No. 1,335,849; Apr. 6; v. 273; p. 27.
Elevator systems, Brake mechanism for. J. D. Schakel. No. 1,358,339; Nov. 9; v. 280; p. 281.
Elevators, Automatic stop for. P. L. Maniet. (Reissue.) No. 14,853; May 4; v. 274; p. 135.
Elevators, Feed-drum for pneumatic. G. and J. Bernert. No. 1,346,293; July 13; v. 276; p. 253.
Elevators, Safety antitilting device for. G. B. Davis. No. 1,343,118; June 8; v. 275; p. 349.
Elevators, Safety attachment for. H. Steinback. No. 1,332,365; Mar. 2; v. 272; p. 37.
Elevators, Safety device for. W. J. Springer. No. 1,346,274; July 13; v. 276; p. 249.
Embalming device. C. S. Harrell. No. 1,342,997; June 8; v. 275; p. 325.
Embalming purposes, Arm-support for. W. Shilling. No. 1,331,879; Feb. 24; v. 271; p. 596.
Embalming set. F. L. Drinkwater. No. 1,335,158; Mar. 30; v. 272 p. 783.
Emblem structure. T. P. Seastrunk. No. 1,340,465; May 18; v. 274; p. 474.
Emblems, Combined supporting and elevating device for. F. Cortese. No. 1,334,890; Mar. 23; v. 272; p. 672.
Embossed designs, Making. L. H. Fuelling. No. 1,350,365; Aug. 24; v. 277; p. 606.
Embossing-gage. G. Neumann. No. 1,349,579; Aug. 17; v. 277; p. 408.
Embossing-machine. C. A. Comp. No. 1,360,723; Nov. 30; v. 280; p. 909.
Embossing-presses, Automatic safety-guard for. C. Seyerle. No. 1,357,427; Nov. 2; v. 280; p. 43.
Embossing or graining machine. H. P. G. Steedman. No. 1,358,891; Nov. 16; v. 280; p. 457.
Embossing without dies, Machine for. F. A. Virkus. No. 1,328,407; Jan. 20; v. 270; p. 384.
Embroidering device. G. W. Maxwell. No. 1,354,119; Sept. 28; v. 278; p. 613.
Embroidering device. M. Terragni and T. Boldizzoni. No. 1,348,600; Aug. 3; v. 277; p. 91.
Embroidering-machine. J. G. F. Rooker. No. 1,348,054; July 27; v. 276; p. 717.
Embroidering-machine. H. Saurer. No. 1,328,069; Jan. 27; v. 270; p. 520.
Embroidering-machine. L. Schwarzmann. No. 1,354,919; Oct. 5; v. 279; p. 94.
Embroidering-machines, Connecting and disconnecting mechanism for. C. De Martin. No. 1,361,520; Dec. 7; v. 281; p. 110.
Embroidering-machines, Pantograph equipment for. H. Corrall. No. 1,328,821; Jan. 27; v. 270; p. 490.
Embroidering-machines, Shuttle-operating mechanism for. H. Saurer. No. 1,347,232; July 20; v. 276; p. 496.
Embroidery-cutting machine. A. Tscherne. No. 1,359,770; Nov. 23; v. 280; p. 653.
Embroidery-forms, Stamping. R. W. Sexton. No. 1,360,804; Nov. 30; v. 280; p. 924.
Embroidery-frame. P. Solaini. No. 1,357,737; Nov. 2; v. 280; p. 102.

Digitized by Google

Alphabetical list of inventions—Continued.

Embroidery-frame. R. O. Trueb. No. 1,335,806; Apr. 6; v. 273; p. 19.
Embroidery-hoop holder. A. C. Wilson. No. 1,335,308; Mar. 30; v. 272; p. 810.
Embroidery-machine. A. Berson and E. Scheyer. No. 1,344,611; June 29; v. 275; p. 835.
Embroidery-machine attachment. H. L. Ochsner. No. 1,358,979; Nov. 16; v. 280; p. 454.
Embroidery-machine, Pantograph. P. Züst and J. Metzger. No. 1,341,160; May 25; v. 274; p. 677.
Embroidery-machine shuttles, Device for ascertaining the thread tension on. K. Burri and F. Sommer. No. 1,363,836; Dec. 28; v. 281; p. 700.
Emergency draft-coupling. C. C. Rich. No. 1,357,651; Nov. 2; v. 280; p. 85.
Emergency draft-coupling. C. C. Rich. No. 1,357,652; Nov. 2; v. 280; p. 85.
Emergency-switch. J. A. Booth. No. 1,341,354; May 25; v. 274; p. 715.
Emulsification, Method and apparatus for. C. E. Norcross. No. 1,362,131; Dec. 14; v. 281; p. 277.
Emulsification, Method of and apparatus for. C. E. Norcross. No. 1,338,996; May 4; v. 274; p. 64.
Emulsifier. C. B. Dalzell. No. 1,363,572; Dec. 28; v. 281; p. 649.
Emulsifier. R. H. Stevens. No 1,351,352; Aug. 31; v. 277; p. 862.
Emulsifying-machine. J. F. Schlappi. No. 1,353,425; Sept. 21; v. 278; p. 429.
Emulsifying-machine. K. D. Smith. No. 1,359,441; Nov. 16; v. 280; p. 543.
Emulsions, Making. J. A. De Cew. No. 1,347,734; July 27; v. 276; p. 653.
Enamel coat on steel, Producing a single white-. S. Rieser. No. 1,360,317; Nov. 30; v. 280; p. 829.
Enamel, Cooling. S. Wiester. No. 1,340,353; May 18; v. 274; p. 452.
Enamel, Lacquer. W. F. Doerflinger. No. 1,345,354; July 6; v. 276; p. 6.
Enamel steel vessel, White-. S. Rieser. No. 1,360,318; Nov. 30; v. 280; p. 829.
Enamels, Making. G. Rupprecht. No. 1,360,585; Nov. 30; v. 280; p. 882.
Enameling and annealing furnace. P. Dupont. No. 1,335,279; Mar. 30; v. 272; p. 804.
Enameling resistance units. L. Kebler. No. 1,361,869; Dec. 14; v. 281; p. 225.
End-gate. H. E. Griggs. No. 1,351,165; Aug. 31; v. 277; p. 823.
End-gate. A. W. Knutson. No. 1,331,570; Feb. 24; v. 271; p. 536.
End-gate. H. P. Olsen. No. 1,351,436; Aug. 31; v. 277; p. 878.
End-gate folding. W. R. Peterson. No. 1,362,818; Dec. 21; v. 281; p. 463.
End-gate, Rodless. J. Leipold. No. 1,329,981; Feb. 3; v. 271; p. 119.
End-matcher. W. S. Sherman. No. 1,338,704; May 4; v. 274; p. 11.
End-mill. J. Fitzsimmons. No. 1,354,097; Sept. 28; v. 278; p. 608.
Engine: *See*—

Beating and refining engine.
Combination-engine.
Combustion-engine.
Dental engine.
Expansion-engine.
Explosion-engine.
External-explosion engine.
Fire-engine.
Gas-engine.
Gas turbine-engine.
Gasolene-engine.
High-compression quick-combustion engine.
High-pressure combustion-engine.
Hydraulic engine.
Hydraulic donkey-engine.
Hydrocarbon-engine.
Impact-engine.
Internal-combustion engine.
Internal-combustion rotary engine.
Internal-combustion turbine engine.
Internal-explosive engine.
Kerosene-engine.
Land and water engine.
Logging-engine.
Muticylinder engine.
Oil-engine.
Oil-burning engine.
Quick-combustion engine.
Reciprocating engine.
Reversible combustion-engine.
Revolving-cylinder engine.
Rotary engine.
Rotary compressed-air engine.
Rotary internal-combustion engine.
Steam-engine.
Steam-expansion engine.
Steam turbine-engine.
Surgical engine.
Traction-engine.
Tractor-engine.
Turbine-engine.
Turbine gas-engine.
Two-cycle engine.
Two-cycle gas-engine.
Valve-engine.

Engine. B. Ames. No 1,363,548; Dec. 28; v. 281; p. 644.
Engine. R. A. Blume and P. F. C. Wilke. No. 1,341,255; May 25; v. 274; p. 695.
Engine. L. A. Born. No. 1,343,612; June 15; v. 275; p. 508.
Engine. J. O. Carrey. No. 1,344,331; June 22; v. 275; p. 715.
Engine. G. L. Chase. No. 1,328,033; Jan. 13; v. 270; p. 277.
Engine. C. C. Clayberg. No. 1,342,498; June 8; v. 275; p. 226.
Engine. J. Dusoevoir and J. R. Welch. No. 1,329,514; Feb. 3; v. 271; p. 33.
Engine. C. R. Eaton. No. 1,361,521; Dec. 7; v. 281; p. 110.
Engine. W. K. Edgar. No. 1,356,757; Oct. 26; v. 279; p. 593.
Engine. A. C. Fischer. No. 1,349,054; Aug. 10; v. 277; p. 231.
Engine. C. S. Leonard and R. H. and R. J. Beck. No. 1,338,311; Apr. 27; v. 273; p. 698.
Engine. T. E. Lewis. No. 1,336,846; Apr. 13; v. 273; p. 277.
Engine. O. G. McMillan. No. 1,349,520; Aug. 10; v. 277; p. 323.
Engine. H. W. Parrish. No. 1,332,633; Mar. 2; v. 272; p. 88.
Engine. J. R. Pflaume. No. 1,343,473; June 15; v. 275; p. 480.
Engine. H. Ruttinger. No. 1,349,856; Aug. 17; v. 277; p. 461.
Engine. E. V. Sala. No. 1,327,172; Jan. 6; v. 270; p. 55.
Engine. E. Sarjent. No. 1,350,570; Aug. 24; v. 277; p. 647.
Engine. A. R. Stanley. No. 1,335,618; Mar. 30; v. 272; p. 867.
Engine. N. S. Stein. No. 1,328,972; Jan. 27; v. 270; p. 520.
Engine. G. W. Swartz. No. 1,351,544; Aug. 31; v. 277; p. 899.
Engine and charging same, Internal-combustion. J. Jessen. No. 1,330,874; Feb. 17; v. 271; p. 386.
Engine and magneto, Internal-combustion. J. R. Stark. No. 1,359,285; Nov. 16; v. 280; p. 510.
Engine and vehicle frame, Combined. C. E. Johnson. No. 1,353,245; Sept. 21; v. 278; p. 394.
Engine attachment, Automobile-. E. C. Rowland. No. 1,338,534; Apr. 27; v. 273; p. 740.
Engine cam, Gas-. E. V. Myers. No. 1,357,413; Nov. 2; v. 280; p. 40.
Engine construction. G. W. Dunham. No. 1,329,587; Feb. 3; v. 271; p. 46.
Engine construction. W. S. Harley. No. 1,360,110; Nov. 23; v. 280; p. 720.
Engine construction, Rotary-gas-. G. A. Reynolds. No. 1,345,808; July 6; v. 276; p. 94.
Engine construction, Steam-. C. Reeves. No. 1,337,024; Apr. 13; v. 273; p. 310.
Engine-control system. M. D. Church. No. 1,354,885; Oct. 5; v. 279; p. 88.
Engine-control system. M. D. Church. No. 1,354,886; Oct. 5; v. 279; p. 88.
Engine-cooling system. N. E. Hildreth. No. 1,357,981; Nov. 9; v. 280; p. 210.
Engine-cooling system. A. Loomis. No. 1,329,419; Feb. 3; v. 271; p. 14.
Engine-cooling systems, Antifreeze composition designed particularly for use in radiators of. C. S. Sanford. No. 1,363,816; Dec. 28; v. 281; p. 696.
Engine-coupling pocket. A. J. Bazeley. No. 1,358,696; Nov. 16; v. 280; p. 398.
Engine-crank rotator. B. L. Madden and L. R. Evans. No. 1,360,306; Nov. 30; v. 280; p. 827.
Engine-crosshead. E. Boas. No. 1,332,317; Mar. 2; v. 272; p. 27.
Engine-cylinder. H. Bauchet. No. 1,358,694; Nov. 16; v. 280; p. 397.
Engine cylinder and bed. D. O. Barrett. No. 1,329,878; Feb. 3; v. 271; p. 100.
Engine-cylinder construction. W. L. Corson. No. 1,332,888; Mar. 9; v. 272; p. 187.
Engine-cylinder reamer. C. G. Roline and C. Norre. No. 1,360,444; Nov. 30; v. 280; p. 854.
Engine cylinders, Automatic graphite lubricating system for internal-combustion-. J. D. Loog. No. 1,353,055; Sept. 14; v. 278; p. 297.
Engine-cylinders, Oil-deflector for. A. H. Plummer and C. P. Mullen. No. 1,328,544; Jan. 20; v. 270; p. 410.
Engine-driving connection. F. H. Simonton. No. 1,362,901; Dec. 21; v. 281; p. 478.
Engine-exhaust muffler. E. Christophersen. No. 1,356,696; Oct. 26; v. 279; p. 581.
Engine, Explosion-alleviator for internal-combustion. B. Bannister. No. 1,360,075; Nov. 23; v. 280; p. 713.
Engine-fan-belt guard. E. B. Brackett. No. 1,340,113; May 11; v. 274; p. 350.
Engine fed with liquid fuel, Two-stroke explosion-. E. H. Tartrais. No. 1,354,786; Oct. 5; v. 279; p. 68.
Engine feed, Gravity control for gas-. E. W. Peery. No. 1,351,123; Aug. 31; v. 277; p. 815.
Engine-frame. H. O. Baker. No. 1,336,715; Apr. 13; v. 273; p. 251.
Engine-frame. W. P. Cook and H. O. Baker. No. 1,336,729; Apr. 13; v. 273; p. 254.
Engine fuel heater and vaporizer, Explosion-. R. C. H. Meyer. No. 1,359,189; Nov. 16; v. 280; p. 492.
Engine gage, Gas-. M. C. Schweinert. No. 1,352,697; Sept. 14; v. 278; p. 226.
Engine guide, Compound-. F. G. Procunier. No. 1,340,740; May 18; v. 274; p. 526.
Engine-handling device. R. Rounds. No. 1,326,969; Jan. 6; v. 270; p. 17.
Engine-head-removing device. S. T. Hall and C. H. Crowley. No. 1,358,679; Nov. 9; v. 280; p. 350.

Digitized by Google

Engine hood and drain-trough therefor, Automobile-. G. B. Stowe. No. 1,335,082; Mar. 30; v. 272; p. 768.
Engine-hood and radiator cover. R. H. Upson. No. 1,327,891; Jan. 13; v. 270; p. 250.
Engine-indicator. A. O. Benecke. No. 1,336,810; Apr. 13; v. 273; p. 269.
Engine-indicator. D. G. Roos. No. 1,349,346; Aug. 10; v. 277; p. 289.
Engine-lock. G. Koch. No. 1,352,417; Sept. 7; v. 278; p. 134.
Engine-lubricator. E. A. Field, Jr. No. 1,329,388; Feb. 3; v. 271; p. 8.
Engine-manifold. F. E. Arndt. No. 1,350,431; Aug. 24; v. 277; p. 619.
Engine-manifold. H. J. Chilton. No. 1,330,580; Feb. 10; v. 271; p. 262.
Engine-muffler. L. J. Martel. No. 1,354,834; Oct. 5; v. 279; p. 77.
Engine of compound type, Internal-combustion. S. G. Wigelius and N. W. Uhr. No. 1,336,668; Apr. 13; v. 273; p. 242.
Engine of the rotary type. G. T. Williams. No. 1,339,730; May 11; v. 274; p. 278.
Engine of the V-type, Internal-combustion. A. P. Brush. No. 1,353,213; Sept. 21; v. 278; p. 388.
Engine-operation indicator, Marine-. J. McRae. No. 1,345,384; July 6; v. 276; p. 11.
Engine or pump, Rotary. K. G. Kutchka. No. 1,336,845; Apr. 13; v. 273; p. 277.
Engine of the double-cylinder type, Steam-. J. G. McKean. No. 1,335,589; Mar. 30; v. 272; p. 862.
Engine of the two-cycle type, Internal-combustion. C. A. Sawtelle. No. 1,333,635; Mar. 16; v. 272; p. 389.
Engine-piston, Adjustable. C. C. Busby. No. 1,358,825; Nov. 16; v. 280; p. 424.
Engine-primer. W. W. Brown. No. 1,353,144; Sept. 21; v. 278; p. 374.
Engine-primer. C. G. Fredrickson. No. 1,343,555; June 15; v. 275; p. 497.
Engine-regulator. W. W. Hill. No. 1,327,999; Jan. 13; v. 270; p. 270.
Engine-releasing device. H. O. Baker. No. 1,332,535; Mar. 2; v. 272; p. 70.
Engine reverse-gear. E. Zbinden. No. 1,352,717; Sept. 14; v. 278; p. 230.
Engine, Reversible internal-combustion. L. S. Stevens. No. 1,331,399; Feb. 17; v. 271; p. 484.
Engine-silencer. E. Rapattoni. No. 1,333,676; Mar. 16; v. 272; p. 397.
Engine-stand. R. E. Manley. No. 1,336,912; Apr. 13; v. 273; p. 289.
Engine-stand. J. H. Staley. No. 1,363,286; Dec. 28; v. 281; p. 594.
Engine-starter. V. Bendix. No. 1,327,132; Jan. 6; v. 270; p. 47.
Engine-starter. V. Bendix. No. 1,327,302; Jan. 6; v. 270; p. 79.
Engine-starter. V. Bendix. No. 1,327,303; Jan. 6; v. 270; p. 79.
Engine-starter. V. Bendix. No. 1,327,304; Jan. 6; v. 270; p. 79.
Engine-starter. V. Bendix. No. 1,330,834; Feb. 17; v. 271; p. 378.
Engine-starter. V. Bendix. No. 1,345,576; July 6; v. 276; p. 49.
Engine-starter. V. Bendix. No. 1,348,147; Aug. 3; v. 277; p. 3.
Engine-starter. V. Bendix. No. 1,354,157; Sept. 28; v. 278; p. 620.
Engine-starter. V. Bendix. No. 1,359,954; Nov. 23; v. 280; p. 690.
Engine-starter. C. Bergmann, Jr. No. 1,330,232; Feb. 10; v. 271; p. 197.
Engine-starter. W. E. Burrows and W. A. Spangler. No. 1,327,753; Jan. 13; v. 270; p. 325.
Engine-starter. M. Chattle. No. 1,352,353; Sept. 7; v. 278; p. 123.
Engine-starter. J. A. Holton. No. 1,359,703; Nov. 23; v. 280; p. 639.
Engine-starter. W. L. McGrath. No. 1,329,535; Feb. 3; v. 271; p. 36.
Engine-starter. W. L. McGrath. No. 1,330,326; Feb. 10; v. 271; p. 214.
Engine-starter. W. L. McGrath. No. 1,330,985; Feb. 17; v. 271; p. 408.
Engine-starter. W. L. McGrath. No. 1,348,288; Aug. 3; v. 277; p. 31.
Engine-starter. W. L. McGrath. No. 1,348,289; Aug. 3; v. 277; p. 32.
Engine-starter. W. L. McGrath. No. 1,351,860; Sept. 7; v. 278; p. 29.
Engine-starter. W. L. McGrath. No. 1,363,003; Dec. 21; v. 281; p. 498.
Engine-starter. F. E. Watts. No. 1,342,478; June 8; v. 275; p. 222.
Engine-starter. F. Wood. No. 1,331,405; Feb. 17; v. 271; p. 485.
Engine starter and generator. T. R. Du Bois. No. 1,348,555; Aug. 3; v. 277; p. 82.
Engine-starter, Electric. G. W. Wacker. No. 1,330,101; Feb. 10; v. 271; p. 173.
Engine starter, Explosive-. L. N. Ries. No. 1,338,159; Apr. 27; v. 273; p. 669.
Engine-starting and automobile-lighting system. J. B. Entz. No. 1,338,857; May 4; v. 274; p. 38.
Engine-starting apparatus. J. Bijur. No. 1,337,973; Apr. 20; v. 273; p. 565.
Engine-starting apparatus. J. Bijur. No. 1,343,028; June 8; v. 275; p. 331.
Engine-starting apparatus. J. Bijur. No. 1,343,029; June 8; v. 275; p. 331.
Engine-starting apparatus. J. Bijur. No. 1,343,030; June 8; v. 275; p. 331.
Engine-starting apparatus. L. Wolffsohn. No. 1,330,566; Feb. 10; v. 271; p. 260.
Engine-starting apparatus. L. M. Wolffsohn. No. 1,349,866; Aug. 17; v. 277; p. 464.
Engine-starting apparatus. L. M. Woolson. No. 1,343,020; June 8; v. 275; p. 329.
Engine-starting cranks, Locking device for. M. J. Cohn. No. 1,351,095; Aug. 31; v. 277; p. 810.
Engine-starting device. J. Duquette. No. 1,356,856; Oct. 26; v. 279; p. 618.
Engine-starting system. J. K. Delano. No. 1,344,870; June 29; v. 275; p. 885.
Engine-starting system, Reversible. T. Zimmerman and T. R. Du Bois. No. 1,363,302; Dec. 28; v. 281; p. 507.
Engine-support. N. E. Hildreth. No. 1,341,902; June 1; v. 275; p. 57.
Engine system, Uniflow-. E. W. Swartwout. No. 1,333,139; Mar. 9; v. 272; p. 235.
Engine-timer. C. C. Manning. No. 1,355,682; Oct. 12; v. 279; p. 295.
Engine valve mechanism. C. R. Greuter. No. 1,350,800; Aug. 24; v. 277; p. 691.
Engine, Valve mechanism for. F. W. Ofeldt. No. 1,359,523; Nov. 23; v. 280; p. 604.
Engine-valve packing. A. Molstad. No. 1,363,894; Dec. 28; v. 281; p. 711.
Engine-valve rocker-arms, Lifting-tool for explosion-. H. W. Paine. No. 1,357,817; Nov. 2; v. 280; p. 118.
Engine, Valve-rotator for internal-combustion. W. G Buck. No. 1,359,669; Nov. 23; v. 280; p. 632.
Engines, Accessory for transmitting power from truck-. C. C. Jacobe. No. 1,358,212; Nov. 9; v. 280; p. 255.
Engines, Adjustable distributer for internal-combustion. W. J. Woodcock. No. 1,349,308; Aug. 10; v. 277; p. 282.
Engines, Aerating device for primers for internal-combustion. H. Kocourek. No. 1,336,144; Apr. 6; v. 273; p. 83.
Engines, Air-cleaner for internal-combustion. A. R. Lambert. No. 1,340,058; May 11; v. 274; p. 339.
Engines, Air control and heat-regulating device for internal-combustion. E. G. Hodges. No. 1,351,477; Aug. 31; v. 277; p. 886.
Engines, Air-control device for. L. W. Griswold. No. 1,352,509; Sept. 14; v. 278; p. 188.
Engines, Air control for internal-combustion. J. P. Remington. No. 1,328,102; Jan. 13; v. 270; p. 290.
Engines, Air-cooler for. J. F. Wittmann. No. 1,336,458; Apr. 13; v. 273; p. 201.
Engines, Air-filter for automatic. J. F. Swarens. No. 1,339,726; May 11; v. 274; p. 277.
Engines, Air-filter for gas-. F. Bellville and E. A. Belleville. No. 1,357,140; Oct. 26; v. 279; p. 668.
Engines, Air-supply device for internal-combustion. C. L. Graham. No. 1,361,575; Dec. 7; v. 281; p. 121.
Engines, Air-temperature regulator for gas-. C. F. Brostrom. No. 1,344,615; June 30; v. 275; p. 836.
Engines, Air-valve for internal-combustion. D. and J. M. Edwards. No. 1,335,099; Mar. 30; v. 272; p. 771.
Engines and like paper-making machines, Bandless rolls for beating-. A. Dorman. No. 1,362,606; Dec. 21; v. 281; p. 421.
Engines and manufacturing same, Sparking-plug for internal-combustion. C. E. Gerbaud. No. 1,347,367; July 20; v. 276; p. 523.
Engines, Apparatus for lubricating the driving parts of. E. Schneider. No. 1,354,852; Oct. 5; v. 279; p. 81.
Engines, Apparatus for mixing and controlling a supply of fuel for explosion-. W. D. Couper. No. 1,332,382; Mar. 2; v. 272; p. 40.
Engines, Apparatus for mixing and controlling a supply of fuel for explosion-. W. D. Couper. No. 1,353,893; Sept. 28; v. 278; p. 566.
Engines, Apparatus for priming. F. D. Sweet. No. 1,350,344; Aug. 24; v. 277; p. 601.
Engines, Apparatus for reboring and reaming cylinders of. J. J. Champion and T. B. Martindale. No. 1,343,517; June 15; v. 275; p. 489.
Engines, Apparatus for starting internal-combustion. A. I. Odier. No. 1,339,411; May 11; v. 274; p. 216.
Engines, Apparatus for supplying explosive gas to internal-combustion. P. J. Dasey. No. 1,344,793; June 29; v. 275; p. 871.
Engines, Apparatus for supplying fuel to internal-combustion. E. Windsor-Bowen. No. 1,362,211; Dec. 14; v. 281; p. 293.
Engines, Apparatus for use in assembling, limbering, and testing gas-. H. E. Patrick, A. J. Peterman, and J. W. Bermes. No. 1,332,678; Mar. 2; v. 272; p. 96.
Engines, Attachment for internal-combustion. A. Illias. No. 1,341,172; May 25; v. 274; p. 679.
Engines, Attachment for internal-combustion. L. P. Peterson. No. 1,350,385; Aug. 24; v. 277; p. 610.

Digitized by Google

Alphabetical list of inventions—Continued.

Engines, Attachment for internal-combustion. W. H. Sibbald. No. 1,336,592; Apr. 13; v. 273; p. 227.
Engines, Attachment for internal-combustion. W. E. Stitzer. No. 1,351,706; Aug. 31; v. 277; p. 931.
Engines, Atomizer for liquid-fuel. E. H. Tartrais. No. 1,327,744; Jan. 13; v. 270; p. 223.
Engines, Atomizing-primer for internal-combustion. J. D. P. Lewis. No. 1,338,740; May 4; v. 274; p. 17.
Engines, Automatic air-regulator for automobile gas-. G. Singelyn. No. 1,357,355; Nov. 2; v. 280; p. 30.
Engines, Automatic cut-off and reverse for steam-. E. P. Welch. No. 1,358,403; Nov. 9; v. 280; p. 295.
Engines, Automatic lubricant-supply system for internal-combustion. S. L. Martin. No. 1,328,843; Jan. 27; v. 270; p. 495.
Engines, Automatic additional air-valve for combustion-. A. E. Peppercorn. No. 1,343,375; June 15; v. 275; p. 462.
Engines, Automatic reversible fan for explosive. A. Holland. (Reissue.) No. 14,838; Apr. 13; v. 273; p. 340.
Engines, Automatic starting and equalizing pressure-valve for compound. J. B. Vernon. No. 1,352,853; Sept. 14; v. 278; p. 258.
Engines, Automatic stop for. T. H. Twa. No. 1,363,067; Dec. 21; v. 281; p. 511.
Engines, Auxiliary air-inlet for gas-. R. A. Green. No. 1,333,913; Mar. 16; v. 272; p. 440.
Engines, Auxiliary air-intake for internal-combustion. P. M. Orlopp. No. 1,340,734; May 18; v. 274; p. 524.
Engines, Auxiliary air-supply device for internal-combustion. P. E. Yeager. No. 1,332,586; Mar. 2; v. 272; p. 79.
Engines, Auxiliary device for gas-. J. D. Langdon. No. 1,338,938; May 4; v. 274; p. 53.
Engines, Auxiliary power system for internal-combustion. J. O. Heinze. No. 1,356,065; Oct. 19; v. 279; p. 410.
Engines, Auxiliary valve for internal-combustion. J. O. Brock. No. 1,344,614; June 29; v. 275; p. 836.
Engines, Auxiliary oiler for automobile-. F. J. L. Haverland, Jr. No. 1,362,486; Dec. 14; v. 281; p. 346.
Engines, Axle connection for. H. O. Baker. No. 1,336,716; Apr. 13; v. 273; p. 251.
Engines, Balancing. L. F. G. Butler. No. 1,340,823; May 18; v. 274; p. 541.
Engines, Balancing of reciprocating. H. R. Ricardo. No. 1,342,648; June 8; v. 275; p. 254.
Engines, Base-lock for reciprocating. G. Wilson. No. 1,328,110; Jan. 13; v. 270; p. 291.
Engines, Bed for vertical internal-combustion. H. H. Blache. No. 1,342,939; June 8; v. 275; p. 313.
Engines, Breather for gas-. A. Pajalic. No. 1,352,022; Sept. 7; v. 278; p. 60.
Engines, Carbon-removing means for internal-combustion. R. C. Berry. No. 1,339,014; May 4; v. 274; p. 67.
Engines, Carbon-shearing and compression device for internal-combustion. H. H. Gove. No. 1,349,757; Aug. 17; v. 277; p. 443.
Engines, Carburation device for internal-combustion. W. Morgan. No. 1,347,820; July 27; v. 276; p. 670.
Engines, Carbureter for internal-combustion. F. H. Royce. No. 1,328,590; Jan. 20; v. 270; p. 419.
Engines, Carbureter for gasolene-. C. F. Schulz. (Reissue.) No. 14,880; June 8; v. 275; p. 363.
Engines, Carbureter for internal-combustion. H. W. Spiller. No. 1,334,411; Mar. 23; v. 272; p. 581.
Engines, Carbureter for internal-combustion. A. Weiland. No. 1,345,297; June 29; v. 275; p. 967.
Engines, Carbureting system for internal-combustion. E. J. Woolf. No. 1,330,969; Feb. 17; v. 271; p. 405.
Engines, Charge-forming device for internal-combustion. G. A. Richards. No. 1,345,507; July 6; v. 276; p. 35.
Engines, Charge-forming means for internal-combustion. A. Hayes. No. 1,360,742; Nov. 30; v. 280; p. 913.
Engines, Charge-moistening device for internal-combustion. C. W. Smith. No. 1,359,761; Nov. 23; v. 280; p. 651.
Engines, Circuit-breaking mechanism for internal-combustion. J. E. Tuscher. No. 1,350,898; Aug. 24; v. 277; p. 709.
Engines, Circuit-controller for explosive-. R. Varley. No. 1,344,464; June 22; v. 275; p. 741.
Engines, Cold process of repairing radiators of internal-combustion. T. E. Henderson. No. 1,340,655; May 18; v. 274; p. 510.
Engines, Combination air-valve and primer for internal-combustion. G. E. Anderson. No. 1,329,354; Feb. 3; v. 271; p. 3.
Engines, Combined leveling and cushioning device for traction-. C. Swan. No. 1,348,333; Aug. 3; v. 277; p. 41.
Engines, Combined muffler, vaporizer, and mixing-chamber for gas-. P. J. Garrison. No. 1,349,755; Aug. 17; v. 277; p. 442.
Engines, Condenser or muffler for internal-combustion. J. H. Parsons, and A. A. Merrick. No. 1,363,345; Dec. 28; v. 281; p. 605.
Engines, Connecting-rod for internal-combustion. F. Stokes. No. 1,331,881; Feb. 24; v. 271; p. 596.
Engines, Control device for internal-combustion. E. B. Hoyte. No. 1,338,017; Apr. 27; v. 273; p. 643.
Engines, Controlling mechanism for exhaust-gases of internal-combustion. W. S. Guthrie. No. 1,359,168; Nov. 16; v. 280; p. 488.
Engines, Controlling mechanism for internal-combustion. C. A. Muller. No. 1,343,980; June 22; v. 275; p. 646.
Engines, Controlling mechanism for internal-combustion. H. T. Hoesel. No. 1,354,748; Oct. 5; v. 279; p. 60.
Engines, Cooling apparatus for internal-combustion. S. I. Fekete. No. 1,338,722; May 4; v. 274; p. 14.
Engines, Cooling arrangement for exhaust-valves of internal-combustion. G. Cattaneo. No. 1,343,111; June 8; v. 275; p. 347.
Engines, Cooling system for gas-. H. H. Justice and E. J. O'Brien. No. 1,347,043; July 20; v. 276; p. 460.
Engines, Cooling means for. G. C. Marsh. No. 1,330,207; Feb. 10; v. 271; p. 193.
Engines, Cooling means for internal-combustion. W. A. Horthy. No. 1,334,536; Mar. 23; v. 272; p. 604.
Engines, Cooling means for rotary internal-combustion. J. H. Bair. No 1,331,177; Feb. 17; v. 271; p. 443.
Engines, Cooling system for automobile-. H. T. Thomas. No. 1,352,560; Sept. 14; v. 278; p. 199.
Engines, Cooling system for motor fire-. R. S. Bolger. No. 1,335,552; Mar. 30; v. 272; p. 855.
Engines, Crank for combustion-. A. S. Nielsen and J. W. Thompson. No. 1,359,829; Nov. 23; v. 280; p. 664.
Engines, Crank for light high-speed. E. Labitotière. No. 1,342,683; June 8; v. 275; p. 261.
Engines, Crank or crank-shaft of internal-combustion. A. W. Wall. No. 1,336,546; Apr. 13; v. 273; p. 219.
Engines, Crank-shaft connection for. C. B. and J. T. Dodge. No. 1,341,709; June 1; v. 275; p. 19.
Engines, Crank-shaft for internal-combustion. F. S. Lee. No. 1,349,893; Aug. 17; v. 277; p. 468.
Engines, Cranking mechanism for explosive-. E. N. Cesar. No. 1,328,127; Jan. 13; v. 270; p. 295.
Engines, Cylinder for internal-combustion. M. J. B. Barbarou. No. 1,340,647; May 18; v. 274; p. 509.
Engines, Cylinder for internal-combustion. A. H. R. Fedden and L. F. G. Butler. No. 1,346,535; July 13; v. 276; p. 300.
Engines, Cylinder for internal-combustion. H. A. Hall. (Reissue.) No. 14,869; June 1; v. 275; p. 156.
Engines, Cylinder for internal-combustion. A. J. Rowledge. No. 1,348,451; Aug. 3; v. 277; p. 63.
Engines, Cylinder for internal-combustion. E. Schneider. No. 1,343,161; June 8; v. 275; p. 357.
Engines, Cylinder for light. A. H. R. Fedden and L. F. G. Butler. No. 1,360,909; Nov. 30; v. 280; p. 944.
Engines, Cylinder-lining for. J. D. White. No. 1,361,297; Dec. 7; v. 281; p. 63.
Engines, Decarbonizer attachment for. G. McNeel. No. 1,338,993; May 4; v. 274; p. 63.
Engines, Decarbonizing and circulation-promoting attachment for internal-combustion. G. L. Eriksson. No. 1,356,437; Oct. 19; v. 279; p. 483.
Engines, Deflooder for internal-combustion. F. L. Maytag. No. 1,342,558; June 8; v. 275; p. 238.
Engines, Device for preventing leakage around the valve-stems of internal-combustion. J. F. McGrother and J. L. Deen. No. 1,338,186; Apr. 27; v. 273; p. 674.
Engines, Device for supplying a cooling liquid to pistons of internal-combustion. C. Kloos. No. 1,334,866; Mar. 23; v. 272; p. 667.
Engines, Device for supplying cooling liquids to pistons of internal-combustion. G. J. Lugt. No. 1,349,516; Aug. 10; v. 277; p. 322.
Engines, Device for supplying water-moisture to intakes of internal-combustion. G. H. Blake. No. 1,352,649; Sept. 14; v. 278; p. 217.
Engines, Distribution for rotary. M. Pelizzola. No. 1,355,907; Oct. 19; v. 279; p. 379.
Engines, Drive for the distribution-gear of internal-combustion. L. A. Charles. No. 1,334,988; Mar. 30; v. 272; p. 750.
Engines, Drum-gear for logging-. E. W. Bodaly. No. 1,330,678; Feb. 10; v. 271; p. 280.
Engines, Dynamo-electric apparatus for internal-combustion. J. Bijur. No. 1,331,090; Feb. 17; v. 271; p. 428.
Engines, Elastic drive for power-. A. Riedler. No. 1,332,755; Mar. 2; v. 272; p. 111.
Engines, Electric heater for semi-Diesel. W. J. Woodcock. No. 1,356,582; Oct. 26; v. 279; p. 559.
Engines, Electric igniting mechanism for internal-combustion. A. A. Kent. No. 1,341,136; May 25; v. 274; p. 672.
Engines, Electric starter for internal-combustion. J. R. Millward. No. 1,341,659; June 1; v. 275; p. 9.
Engines, Electric starter for internal-combustion. J. R. Millward. No. 1,341,660; June 1; v. 275; p. 9.
Engines, Electric starting system for internal-combustion. A. Dutreux. No. 1,352,794; Sept. 14; v. 278; p. 246.
Engines, Electric starting system for internal-combustion. A. Kazenmaier. No. 1,335,507; Mar. 30; v. 272; p. 847.
Engines, Electric vapor-heater for internal-combustion. W. F. Little. No. 1,344,303; June 22; v. 275; p. 709.
Engines, Electrical apparatus for internal-combustion. J. Bijur. No. 1,362,770; Dec. 21; v. 281; p. 453.
Engines, &c., Eliminating torsional vibrations in high-speed. F. W. Lanchester. No. 1,346,755; July 13; v. 276; p. 344.

Digitized by Google

Engines, Exhaust-silencer for internal-combustion. W. H. Martin. No. 1,342,340; June 1; v. 275; p. 142.
Engines, Explosion-alleviator for internal-combustion. B. Bannister. No. 1,360,074; Nov. 23; v. 280; p. 713.
Engines, External ignition device for internal-combustion. H. Schlaich. No. 1,341,619; May 25; v. 274; p. 766.
Engines, Fastening-stud for exhaust-valves for internal-combustion. H. H. Blache. No. 1,332,316; Mar. 2; v. 272; p. 27.
Engines, Feed device for internal-combustion. H. L. Thompson. No. 1,359,289; Nov. 16; v. 280; p. 511.
Engines, Fluid-pump for internal-combustion. K. J. E. Hesselman. No. 1,348,646; Aug. 3; v. 277; p. 100.
Engines for flight-motors, Air-cooling mechanism for internal-combustion. J. W. Smith. No. 1,341,444; May 25; v. 274; p. 732.
Engines, &c., Forging cylinders of. E. Fuchs. No. 1,328,276; Jan. 20; v. 270; p. 359.
Engines, Forming and igniting explosive charges in internal-combustion. A. Hayes. No. 1,360,743; Nov. 30; v. 280; p. 915.
Engines, Fuel-control mechanism for internal-combustion. H. L. Tygard and G. M. Hamilton. No. 1,347,192; July 20; v. 276; p. 488.
Engines, Fuel-economizer for. E. L. Minor. No. 1,333,558; Mar. 9; v. 272; p. 314.
Engines, Fuel economizer, mixer, and separator for internal-combustion. W. S. Kellogg. No. 1,362,251; Dec. 14; v. 281; p. 301.
Engines, Fuel-economizing device for internal-combustion. W. G. Clayton. No. 1,345,432; July 6; v. 276; p. 21.
Engines, Fuel feeding and mixing device for. W. Shurtleff. No. 1,338,104; Apr. 27; v. 273; p. 659.
Engines, Fuel-feeding device for explosive-. E. S. Church. No. 1,362,394; Dec. 14; v. 281; p. 328.
Engines, Fuel-feeding device for internal-combustion. H. C. Suekert. No. 1,356,096; Oct. 19; v. 279; p. 417.
Engines, Fuel-feeding device for oil-. H. W. Sumner. No. 1,352,637; Sept. 14; v. 278; p. 214.
Engines, Fuel-heater for internal-combustion. P. F. O'Shaughnessy. No. 1,336,152; Apr. 6; v. 273; p. 85.
Engines, Fuel-injection device for internal-combustion. J. McKechnie. No. 1,338,316; Apr. 27; v. 273; p. 699.
Engines, Fuel-injection valve for oil-. K. O. Keller. No. 1,341,911; June 1; v. 275; p. 58.
Engines, Fuel-injector for. T. Wheeler. No. 1,362,210; Dec. 14; v. 281; p. 293.
Engines, Fuel-injector for high-compression internal-combustion. W. G. Germandt. No. 1,361,711; Dec. 7; v. 281; p. 147.
Engines, Fuel-injector for internal-combustion. S. P. and H. A. Cowardin. No. 1,333,541; Mar. 9; v. 272; p. 310.
Engines, Fuel-saving and speed-increasing attachment for. F. S. Ware. No. 1,352,709; Sept. 14; v. 278; p. 229.
Engines, Fuel-supply for internal-combustion. S. I. Fekete. No. 1,328,142; Jan. 13; v. 270; p. 298.
Engines, Fuel-supply system for internal-combustion. G. W. Henner. No. 1,334,491; Mar. 23; v. 272; p. 595.
Engines, Fuel-supply for internal-combustion. A. H. Pape. No. 1,344,815; June 29; v. 275; p. 875.
Engines, Fuel system for internal-combustion. A. Rosner. No. 1,350,421; Aug. 24; v. 277; p. 617.
Engines, Fuel-tank for internal-combustion. F. Jensen. No. 1,350,808; Aug. 24; v. 277; p. 693.
Engines, Fuel-vaporizer for internal-combustion. G. A. Baker. No. 1,359,218; Nov. 16; v. 280; p. 498.
Engines, Fuel-vaporizer for combustion-. C. C. Hedges. No. 1,343,053; June 8; v. 275; p. 336.
Engines Fuel-vaporizing system for internal-combustion. J. D. Langdon. No. 1,350,413; Aug. 24; v. 277; p. 615.
Engines, Furnishing explosive mixture to internal-combustion. P. S. Tice. No. 1,348,066; July 27; v. 276; p. 720.
Engines, Gas-saver for internal-combustion. L. Collinge. No. 1,329,753; Feb. 3; v. 271; p. 76.
Engines, Gas-saver for internal-combustion. A. J. Hansen and E. C. Oversmith. No. 1,327,551; Jan. 6; v. 270; p. 125.
Engines, Governing mechanism for compound. F. Hodgkinson. No. 1,337,176; Apr. 13; v. 273; p. 839.
Engines, Governing mechanism for internal-combustion. A. F. Christmas. No. 1,349,146; Aug. 10; v. 277; p. 249.
Engines, Governor-controlled auxiliary air-device for internal-combustion. E. G. Hodges. No. 1,333,847; Mar. 16; v. 272; p. 428.
Engines, Governor for internal-combustion. W. F. Vallier. No. 1,327,847; Jan. 13; v. 270; p. 242.
Engines, Governor for internal-combustion. H. P. Mammen. No. 1,332,630; Mar. 2; v. 272; p. 87.
Engines, Governor for tractor-. D. F. Londt. No. 1,331,161; Feb. 17; v. 271; p. 440.
Engines, High-tension distributer for internal-combustion. J. Schneider and F. Billon. No. 1,337,966; Apr. 20; v. 273; p. 564.
Engines, Governor-valve controller for steam-. C. St. John. No. 1,354,703; Oct. 5; v. 279; p. 52.
Engines, Guarding mechanism for spark-plugs of internal-combustion. C. T. Holst. No. 1,353,959; Sept. 28; v. 278; p. 579.
Engines, Heating system for hydrocarbon-. R. P. Perrine. No. 1,361,095; Dec. 7; v. 281; p. 23.
Engines, High-voltage current-distributing apparatus for electric ignition apparatus of internal-combustion. J. Bohli. No. 1,335,933; Apr. 6; v. 273; p. 43.
Engines, Hit-or-miss valve-action for internal-combustion. H. Kocourek. No. 1,331,507; Feb. 24; v. 271; p. 525.
Engines, Humidifier for internal-combustion. G. W. Black and L. A. Hannan. No. 1,335,551; Mar. 30; v. 272; p. 855.
Engines, Ignition device for explosive-. J. H. Stringham. No. 1,354,586; Oct. 5; v. 279; p. 28.
Engines, Ignition device for internal-combustion. F. C. M. Cesbron. No. 1,360,885; Nov. 30; v. 280; p. 940.
Engines, Ignition device for internal-combustion. R. White. No. 1,356,244; Oct. 19; v. 279; p. 447.
Engines, Ignition-magneto for internal-combustion. E. Mallvert. No. 1,334,918; Mar. 23; v. 272 p. 678.
Engines, Ignition mechanism for internal-combustion. A. O. Dady. No. 1,329,508; Feb. 3; v. 271; p. 31.
Engines, Ignition mechanism for internal-combustion. A. O. Dady. No. 1,329,654; Feb. 3; v. 271; p. 57.
Engines, Ignition mechanism for internal-combustion. C. Y. Knight. No. 1,350,815; Aug. 24; v. 277; p. 694.
Engines, Ignition-plug for internal-combustion. L. Lavoisier. No. 1,327,482; Jan. 6; v. 270; p. 112.
Engines, Ignition system for gas-. J. Kelly. No. 1,352,045; Sept. 14; v. 278; p. 295.
Engines, Ignition system for internal-combustion. G. H. Hill. No. 1,334,095; Mar. 16; v. 272; p. 475.
Engines, Ignition system for internal-combustion. A. H. Midgley. No. 1,351,396; Aug. 31; v. 277; p. 870.
Engines, Increasing the power of gas-. G. F. Shaver. No. 1,343,938; June 22; v. 275; p. 638.
Engines, Ignition system for internal-combustion. W. F. Strand. No. 1,336,933; Apr. 13; v. 273; p. 283.
Engines, Indicating device for explosive-. L. V. Aronson and A. Harris. No. 1,330,570; Feb. 10; v. 271; p. 260.
Engines, Injector for internal-combustion. L. W. Lombard. No. 1,349,515; Aug. 10; v. 277; p. 322.
Engines, Internal-combustion chamber for. J. Konar. No. 1,342,449; June 8; v. 275; p. 216.
Engines, Internally-heated throttle-valve for hydrocarbon-. L. W. Lloyt. No. 1,354,484; Oct. 5; v. 279; p. 8.
Engines into the open air, Apparatus for deadening the noise made by exhaust-gases escaping from internal-combustion. A. Castets. No. 1,356,189; Oct. 19; v. 279; p. 436.
Engines, Locking device for internal-combustion. J. L. Weller and F. E. Winchester. No. 1,329,943; Feb. 3; v. 271; p. 112.
Engines, Lubricant distributer and filter for internal-combustion. J. W. Mears. No. 1,352,298; Sept. 7; v. 278; p. 112.
Engines, Lubricant-segregating means for inverted internal-combustion. W. H. Johnson. No. 1,362,006; Dec. 14; v. 281; p. 253.
Engines, Lubricating attachment for internal-combustion. C. L. Magee. No. 1,351,338; Aug. 31; v. 277; p. 859.
Engines, Lubricating system for explosive-. J. D. Jones. No. 1,355,229; Oct. 12; v. 279; p. 207.
Engines, Lubricating system for high-speed. C. L. Lawrance. No. 1,338,310; Apr. 27; v. 273; p. 698.
Engines, Lubricating system for internal-combustion. H. H. Blache. No. 1,342,273; June 1; v. 275; p. 130.
Engines, Means for starting internal-combustion. W. S. Jeal. No. 1,359,896; Nov. 23; v. 280; p. 678.
Engines, Lubricating system for steam-. R. Watres. No. 1,342,077; June 1; v. 275; p. 91.
Engines, Lubrication for internal-combustion. C. B. Kirkham. No. 1,349,676; Aug. 17; v. 277; p. 427.
Engines, Making cylinders for internal-combustion. E. E. Allyne. No. 1,347,476; July 20; v. 276; p. 544.
Engines, Manifold for internal-combustion. R. C. Chesnutt. No. 1,327,311; Jan. 6; v. 270; p. 80.
Engines, Manifold for internal-combustion. G. E. White. No. 1,332,278; Mar. 2; v. 272; p. 19.
Engines, Manifold-heater for internal-combustion. J. F. Pierce and H. H. Gordon. (Reissue.) No. 15,008; Dec. 14; v. 281; p. 366.
Engines, Means for applying electric motors to winding-. A. Palmros. No. 1,342,757; June 8; v. 275; p. 277.
Engines, Means for controlling the supply of liquid fuel to internal-combustion. H. Brooks. No. 1,348,845; Aug. 10; v. 277; p. 190.
Engines, Means for controlling the supply of liquid fuel to internal-combustion. H. Brooks. No. 1,361,438; Dec. 7; v. 281; p. 93.
Engines, Means for cooling the pistons of internal-combustion. W. Schmidt. No. 1,344,090; June 22; v. 275; p. 667.
Engines, Means for heating the charges in internal-combustion. H. R. Ricardo. No. 1,342,869; June 8; v. 275; p. 299.
Engines, Means for igniting the charge in internal-combustion. F. and E. Carter. No. 1,345,999; July 6; v. 276; p. 133.
Engines, Means for packing and lubricating the pistons of internal-combustion and other. G. Blankfield. No. 1,336,342; Apr. 6; v. 273; p. 120.

Digitized by Google

Alphabetical list of inventions—Continued.

Engines, Means for starting and reversing multiple-cylinder internal-combustion. F. and E. Carter. No. 1,361,681; Dec. 7; v. 281; p. 141.

Engines, Means for starting internal-combustion. L. E. Sitzler. No. 1,331,853; Feb. 24; v. 271; p. 591.

Engines, Means for supplying explosive mixtures to. J. J. Cochran. No. 1,353,454; Sept. 21; v. 278; p. 434.

Engines, Means for supplying fuel to internal-combustion. F. H. Page. No. 1,329,997; Feb. 3; v. 271; p. 122.

Engines, Mechanism for controlling lubrication of explosion-. C. A. Crique and E. T. Larkin. No. 1,353,894; Sept. 28; v. 278; p. 566.

Engines, Mechanism for disengaging and engaging the main governors in steam hoisting-. E. Schneider. No. 1,327,633; Jan. 13; v. 270; p. 202.

Engines, Method and apparatus for making valves for internal-combustion. C. R. Short and A. L. Cash. No. 1,335,862; Apr. 6; v. 273; p. 80.

Engines, Method and arrangement for measuring the power of reciprocating. A. Frisch. No. 1,355,661; Oct. 12; v. 279; p. 290.

Engines, Method of and means for feeding lubricants to steam-. W. F. Stack. No. 1,353,081; Sept. 14; v. 278; p. 302.

Engines, Mixing device for internal-combustion. L. O. Miller. No. 1,344,706; June 29; v. 275; p. 853.

Engines, Moisture-inlet valve for internal-combustion. C. G. Johnson and J. M. Allen. No. 1,356,370; Oct. 19; v. 279; p. 471.

Engines, Motor-fuel for internal-combustion. G. F. Dinsmore. No. 1,331,054; Feb. 17; v. 271; p. 421.

Engines, Muffler for explosive-. E. E. Wickersham. No. 1,344,367; June 22; v. 275; p. 722.

Engines, Muffler for steam and gas. C. S. Shuman and S. S. Hanson. No. 1,351,698; Aug. 31; v. 277; p. 929.

Engines off of dead - centers, Mechanism for moving. R. H. Adams. No. 1,335,086; Mar. 30; v. 272; p. 769.

Engines, Oil-baffle for automobile-. G. A. Rendahl. No. 1,327,779; Jan. 13; v. 270; p. 229.

Engines, Oil-cooling system for explosive-. C. V. Morse. No. 1,336,368; Apr. 6; v. 273; p. 125.

Engines, Oil-feed pump for internal-combustion. H. W. Sumner. No. 1,338,338; Apr. 27; v. 273; p. 703.

Engines, Oil-filtering attachment for internal-combustion. R. F. Brown. No. 1,344,982; June 29; v. 275; p. 905.

Engines, Oil-purifying apparatus for hydrocarbon-. J. A. Watson. No. 1,359,453; Nov. 16; v. 280; p. 545.

Engines, Oil-tube for gas-. C. C. Fay. No. 1,331,700; Feb. 24; v. 271; p. 561.

Engines, Oiling system for internal-combustion. P. W. Murphy. No. 1,332,948; Mar. 9; v. 272; p. 199.

Engines, Operating internal-combustion. D. L. Winters. No. 1,342,656; June 8; v. 275; p. 256.

Engines, Piston and piston-rod for internal-combustion. J. C. M. Maclagan. No. 1,346,041; July 6; v. 276; p. 141.

Engines, Piston-cooling device for internal-combustion. W. J. Larson. No. 1,346,407; July 13; v. 276; p. 274.

Engines, Piston for gas-. H. Pilling. No. 1,345,233; June 29; v. 275; p. 954.

Engines, Piston for internal-combustion. H. R. Ricardo. No. 1,346,845; July 20; v. 276; p. 420.

Engines, Plate-valve for blowing-. J. H. Watters. No. 1,330,103; Feb. 10; v. 271; p. 173.

Engines, Pressure-feed device for internal-combustion. E. M. G. Lepère. No. 1,329,781; Feb. 3; v. 271; p. 81.

Engines, Primer for internal-combustion. H. D. Waterhouse. No. 1,339,080; May 4; v. 274; p. 80.

Engines, Priming attachment for internal-combustion. E. O. Steinbauer. No. 1,340,087; May 11; v. 274; p. 345.

Engines, Priming device for gasolene-. R. O. McAssey. No. 1,344,805; June 29; v. 275; p. 873.

Engines, Priming means for internal-combustion. T. F. Bourne. No. 1,343,547; June 15; v. 275; p. 496.

Engines, Priming system for internal-combustion. G. Honold and A. Krauss. No. 1,327,430; Jan. 6; v. 270; p. 102.

Engines, Production of gaseous fuel for internal-combustion. A. W. Southey. No. 1,351,193; Aug. 31; v. 277; p. 829.

Engines, Pump for supplying fuel to internal-combustion. B. V. Nordberg. No. 1,333,566; Mar. 9; v. 272; p. 315.

Engines, Puppet-valve for gas-. F. D. Shepherd. No. 1,330,045; Feb. 3; v. 271; p. 130.

Engines, Puppet-valve for internal-combustion. F. D. Shepherd. No. 1,330,044; Feb. 3; v. 271; p. 130.

Engines, Puppet-valve for internal-combustion. F. D. Shepherd. No. 1,331,826; Feb. 24; v. 271; p. 585.

Engines, Radiator for internal-combustion. P. F. Spery. No. 1,349,011; Aug. 10; v. 277; p. 222.

Engines, Recarbureter for gas-. J. M. Kelley. No. 1,355,149; Oct. 12; v. 279; p. 191.

Engines, Releasing-crank mechanism for internal-combustion. R. N. Cook. No. 1,348,931; Aug. 10; v. 277; p. 207.

Engines, Reversing mechanism for fluid-. F. A. Jimerson. No. 1,338,732; May 4; v. 274; p. 16.

Engines, Reversing mechanism for internal-combustion. G. W. A. Green, O. Wans, and F. H. Livens. No. 1,327,995; Jan. 13; v. 270; p. 270.

Engines, Reversing mechanism for internal-combustion. R. Hildebrand. No. 1,356,820; Oct. 26; v. 279; p. 605.

Engines, Right-angle handpiece for dental. J. F. Nelson. No. 1,332,744; Mar. 2; v. 272; p. 109.

Engines, Rotary shaft and coupling for electric dental. A. P. Merrill. No. 1,328,095; Jan. 13; v. 270; p. 288.

Engines, Rotary valve for internal-combustion. C. L. Schwanke. No. 1,346,686; July 13; v. 276; p. 330.

Engines, Rotary valve for internal-combustion. J. G. Wait. No. 1,360,061; Nov. 23; v. 280; p. 710.

Engines, Rotary valve for internal-combustion. A. C. Fronk. No. 1,360,107; Nov. 23; v. 280; p. 720.

Engines, Selecting grades of lubricants for internal-combustion. E. A. Baldwin. No. 1,359,147; Nov. 16; v. 280; p. 484.

Engines, Spark control and governor for internal-combustion. H. L. Thompson. No. 1,348,948; June 22; v. 275; p. 639.

Engines, Spark-controlling mechanism for internal-combustion. J. F. Gorman. No. 1,336,350; Apr. 6; v. 273; p. 122.

Engines, Spark-intensifier for explosive-. J. C. Pyle. No. 1,361,288; Dec. 7; v. 281; p. 61.

Engines, Spark-plug-controlling device for internal-combustion. A. Pache. No. 1,358,459; Nov. 9; v. 280; p. 306.

Engines, Spark-plug for internal-combustion. C. L. Fitts. No. 1,356,349; Oct. 19; v. 279; p. 467.

Engines, Spark-plug for internal-combustion. W. E. Taft. No. 1,328,463; Jan. 20; v. 270; p. 395.

Engines, Sparking-plug for internal-combustion. C. Blandin. No. 1,357,833; Nov. 2; v. 280; p. 121.

Engines, Sparking plug for internal-combustion. C. M. E. L. Monnier. No. 1,334,627; Mar. 23; v. 272; p. 621.

Engines, Speed-regulator for. W. A. North. No. 1,348,833; Aug. 3; v. 277; p. 135.

Engines, Splash lubricating system for gas-. C. J. Gustafson. No. 1,337,013; Apr. 13; v. 273; p. 308.

Engines, Starter for explosive-. W. Bollheimer. No. 1,331,798; Feb. 24; v. 271; p. 580.

Engines, Starter for internal-combustion. E. M. Bond. No. 1,337,113; Apr. 13; v. 273; p. 328.

Engines, Starter for internal-combustion. H. C. Erbe. No. 1,331,631; Feb. 24; v. 271; p. 548.

Engines, Starter for internal-combustion. F. E. Fisher. No. 1,346,598; July 13; v. 276; p. 312.

Engines, Starter for internal-combustion. L. B. Hasbrouck. No. 1,327,276; Jan. 6; v. 270; p. 74.

Engines, Starter for internal-combustion. J. R. Millward. No. 1,341,658; June 1; v. 275; p. 9.

Engines, Starting and ignition system for internal-combustion. V. A. Fynn. No. 1,337,649; Apr. 20; v. 273; p. 503.

Engines, Starting apparatus for internal-combustion. H. Weichsel. No. 1,353,876; Sept. 28; v. 278; p. 563.

Engines, Starting apparatus for use with internal-combustion. A. I. Odier. No. 1,351,399; Aug. 31; v. 277; p. 871.

Engines, Starting device for explosion-. C. L. F. Mogué. No. 1,356,648; Oct. 26; v. 279; p. 572.

Engines, Starting device for internal-combustion. J. K. Delano. No. 1,337,887; Apr. 20; v. 273; p. 549.

Engines, Starting device for internal-combustion. C. A. Marks. No. 1,354,985; Oct. 5; v. 279; p. 107.

Engines, Starting device for internal-combustion. C. G. T. Thelin. No. 1,344,739; June 29; v. 275; p. 860.

Engines, Starting-igniter for internal-combustion. H. W. Sumner. No. 1,361,116; Dec. 7; v. 281; p. 27.

Engines, Starting-magnet for internal-combustion. A. H. Midgley. No. 1,356,778; Oct. 26; v. 279; p. 597

Engines, Starting mechanism for internal-combustion. M. M. Balsam. No. 1,338,668; May 4; v. 274; p. 4.

Engines, Starting mechanism for internal-combustion. N. A. Christensen. No. 1,336,616; Apr. 13; v. 273; p. 232.

Engines, Starting mechanism for internal-combustion. A. Churchward. No. 1,350,703; Aug. 24; v. 277; p. 673.

Engines, Starting mechanism for internal-combustion. H. R. Van Vleck. No. 1,329,152; Jan. 27; v. 270; p. 554.

Engines, Starting-port for valveless two-cycle internal-combustion. C. H. Shessley. No. 1,349,630; Aug. 17; v. 277; p. 418.

Engines, Starting-valve for combustion-. J. Müller. No. 1,343,226; June 15; v. 275; p. 434.

Engines, Steering mechanism for traction-. E. W. Burgess. No. 1,351,741. Sept. 7; v. 278; p. 5.

Engines, Steering mechanism for traction-. E. W. Burgess. No. 1,328,710; Jan. 20; v. 270; p. 441.

Engines, Superheater for internal-combustion. H. A. Lacerda. No. 1,338,511; Apr. 27; v. 273; p. 736.

Engines, Superheater-manifold for internal-combustion. W. P. Deppé. No. 1,360,098; Nov. 23; v. 280; p. 718.

Engines, Synchronizing and regulating mechanism for combination steam and explosion. C. T. Litchfield. No. 1,349,619; Aug. 17; v. 277; p. 416.

Engines, Tappet for internal-combustion. G. R. Rich. No. 1,339,421; May 11; v. 274; p. 218.

Engines, Temperature-controlling mechanism for internal-combustion. F. M. Furber. No. 1,327,381; Jan. 6; v. 270; p. 93.

Engines, Temperature-controlling system for internal-combustion. J. Ericson. No. 1,361,033; Dec. 7; v. 281; p. 10.

Digitized by Google

Engines, Temperature-indicating device for cooling systems for internal-combustion. L. V. Aronson. No. 1,347,317; July 20; v. 276; p. 513.
Engines, Temperature-regulator for internal-combustion. C. L. Rayfield. No. 1,359,198; Nov. 16; v. 280; p. 494.
Engines, Thermostatic control mechanism for hydrocarbon-. L. H. Lamont. No. 1,350,871; Aug. 24; v. 277; p. 764.
Engines, Throttle control for. P. F. Rice. No. 1,330,986; Feb. 17; v. 271; p. 408.
Engines, Timer for ignition-circuits of. C. J. Myers. No. 1,361,088; Dec. 7; v. 281; p. 21.
Engines, Timer for internal-combustion. O. H. Hasselbaum. No. 1,347,370; July 20; v. 276; p. 524.
Engines, Timing device for explosive-. A. O. Poirier. No. 1,332,568; Mar. 2; v. 272; p. 76.
Engines using heavy oils, Carbureter for internal-combustion. F. Grenier. No. 1,351,104; Aug. 31; v. 277; p. 811.
Engines, Utilization of exhaust heat from internal-combustion. F. W. Burstall. No. 1,359,447; Nov. 16; v. 280; p. 544.
Engines, Valve-controlling means for internal-combustion. H. H. Moeller. No. 1,362,500; Dec. 14; v. 281; p. 348.
Engines, Valve for internal-combustion. J. A. Toomey. No. 1,350,479; Aug. 24; v. 277; p. 629.
Engines, Valve-gear for internal-combustion. R. P. Dorford and K. O. Keller. No. 1,334,268; Mar. 16; v. 272; p. 507.
Engines, Valve-gear of fluid-pressure. R. L. d'Espujols. No. 1,360,099; Nov. 13; v. 280; p. 718.
Engines, Valve-gear for internal-combustion. N. J. Le Grande. No. 1,345,094; June 29; v. 275; p. 927.
Engines, Valve-gear of internal-combustion. J. McKechnie. No. 1,352,758; Sept. 14; v. 278; p. 239.
Engines, Valve-gear for steam-. W. H. Smith. No. 1,351,702; Aug. 31; v. 277; p. 930.
Engines, Valve-gear for reciprocating steam-. H. Pilling. No. 1,345,232; June 29; v. 275; p. 954.
Engines, Valve mechanism for. T. W. Delaney. No. 1,331,188; Feb. 17; v. 271; p. 445.
Engines, Valve mechanism for reciprocating. A. H. Anthony. No. 1,336,711; Apr. 13; v. 273; p. 250.
Engines, Valve mechanism of internal-combustion. H. L. Milner and A. R. Beeby. No. 1,339,406; May 11; v. 274; p. 215.
Engines, Valve of internal-combustion. A. T. Ellis. No. 1,329,321; Jan. 27; v. 270; p. 584.
Engines, Valve-operating mechanism for gas-. A. Holmes. No. 1,332,294; Mar. 2; v. 272; p. 23.
Engines, Valve timing-gear for explosive-. A. Barnes. No. 1,340,362; May 18; v. 274; p. 454.
Engines, Vapor-heater for. V. Adams. No. 1,356,482; Oct. 19; v. 279; p. 492.
Engines, Vaporizer for combustion-. W. H. Hayes. No. 1,340,444; May 18; v. 274; p. 470.
Engines, Vaporizer for gas-. D. Myers. No. 1,363,190; Dec. 21; v. 281; p. 535.
Engines, Vaporizer for internal-combustion. T. B. Funk and L. G. Hunt. No. 1,355,076; Oct. 5; v. 279; p. 124.
Engines, Vaporizer for internal-combustion. W. Lennon. No. 1,341,141; May 25; v. 274; p. 673.
Engines, Vaporizer for internal-combustion. T. A. Mulkern. No. 1,350,079; Aug. 17; v. 277; p. 504.
Engines, Vaporizer for internal-combustion. G. Spicer and E. G. S. Croxson. No. 1,348,455; Aug. 3; v. 277; p. 64.
Engines, Vaporizing device for crude-oil explosive-. H. E. A. Raabe. No. 1,329,797; Feb. 3; v. 271; p. 84.
Engines, Vaporizing device for internal-combustion. M. J. Trumble. No. 1,359,292; Nov. 16; v. 280; p. 512.
Engines, Variable gas-ports for gas-. C. H. Sheasley. No. 1,327,927; Jan. 13; v. 270; p. 257.
Engines, Voltage-controller governor for internal-combustion. I. T. Swartz. No. 1,361,117; Dec. 7; v. 281; p. 27.
Engines, Water-circulating pump for combustion-. O. T. Scharmann. No. 1,336,091; Apr. 6; v. 273; p. 73.
Engines, Water-circulating system for internal-combustion. J. Good. No. 1,359,694; Nov. 23; v. 280; p. 637.
Engines, Water-cooled working-cylinder for internal-combustion. F. A. Lagersten. No. 1,342,633; June 8; v. 275; p. 251.
Engines, Water-valve for carbureters and vaporizers of internal-combustion. J. A. Torrens. No. 1,343,488; June 15; v. 275; p. 488.
Engines with fuel, Method of and means for supplying. D. L. Winters. No. 1,337,338; Apr. 20; v. 273; p. 445.
Engines with multiple cylinders, Device to eliminate vibrations during rotation of crank-shafts in piston-. H. Techel. No. 1,359,848; Nov. 23; v. 280; p. 668.
Engineers, Plotting device for civil. F. Cnare. No. 1,356,971; Oct. 26; v. 279; p. 635.
Engraving-machine. T. A. Nissinen. No. 1,362,261; Dec. 14; v. 281; p. 303.
Engraving machine, Multiple-. G. H. Faichney. No. 1,359,240; Nov. 16; v. 280; p. 502.
Engraving machine, Multiple-. G. H. Faichney. No. 1,359,241; Nov. 16; v. 280; p. 502.
Engraving machine, Multiple-. G. H. Faichney. No. 1,359,242; Nov. 16; v. 280; p. 503.
Engraving-machine, Portable. F. R. Sommer and E. K. Skonberg. No. 1,356,796; Oct. 26; v. 279; p. 601.
Engraving or embossing means. G. A. Drucker, W. Sieck, Jr., and S. Drucker. No. 1,362,684; Dec. 21; v. 281; p. 436.
Engraving-plate holder. J. W. Jenner. No. 1,347,101; July 20; v. 276; p. 471.
Ensilage apparatus, Automatic water-feed for. H. A. Lyon. No. 1,347,392; July 20; v. 276; p. 528.
Ensilage-cutter. F. J. Bullock and W. H. Preston. No. 1,347,493; July 27; v. 276; p. 604.
Ensilage-cutter. G. M. Merwin. No. 1,327,346; Jan. 6; v. 270; p. 86.
Ensilage-cutter. D. E. Virtue. No. 1,363,445; Dec. 28; v. 281; p. 624.
Ensilage Machine for handling. G. A. Long. No. 1,353,405; Sept. 21; v. 278; p. 425.
Envelop. W. W. L. Ahana. No. 1,328,028; Jan. 13; v. 270; p. 276.
Envelop. C. L. Benedict. No. 1,343,075; June 8; v. 275; p. 340.
Envelop. J. T. Careaga. No. 1,335,655; Mar. 30; v. 272; p. 875.
Envelop. J. S. Crate. No. 1,354,092; Sept. 28; v. 278; p. 607.
Envelop. W. H. Cummings. No. 1,357,961; Nov. 9; v. 280; p. 206.
Envelop. W. L. Dodge. No. 1,360,624; Nov. 30; v. 280; p. 890.
Envelop. C. C. Hickam. No. 1,358,846; Nov. 16; v. 280; p. 428.
Envelop. W. Hire. No. 1,339,392; May 11; v. 274; p. 213.
Envelop. G. A. Hoffman. No. 1,344,394; June 22; v. 275; p. 727.
Envelop. G. F. Hogan. No. 1,359,063; Nov. 16; v. 280; p. 469.
Envelop. W. Homeniuk. No. 1,350,928; Aug. 24; v. 277; p. 715.
Envelop. E. U. Kimbark. No. 1,352,972; Sept. 14; v. 278; p. 281.
Envelop. E. F. Nissen. No. 1,340,554; May 18; v. 274; p. 491.
Envelop. A. E. H. Payne. No. 1,335,183; Mar. 30; v. 272; p. 787.
Envelop. G. Rottman. No. 1,334,967; Mar. 30; v. 272; p. 746.
Envelop. G. Rottman. No. 1,348,243; Aug. 3; v. 277; p. 23.
Envelop. E. L. Webster. No. 1,344,071; June 22; v. 275; p. 664.
Envelop. J. Wiski. No. 1,347,609; July 27; v. 276; p. 628.
Envelop blank, Safety-. M. L. Hinchman. No. 1,351,851; Sept. 7; v. 278; p. 28.
Envelop-blank-cutting machinery. L. B. Fraser. No. 1,362,410; Dec. 14; v. 281; p. 331.
Envelop-blank-cutting machinery. M. D. Strong. No. 1,362,365; Dec. 14; v. 281; p. 322.
Envelop blanks, Machine for making window-. S. Furman. (Reissue.) No. 14,936; Aug. 24; v. 277; p. 732.
Envelop-clasp. G. C. Moxon. No. 1,335,851; Apr. 6; v. 273; p. 27.
Envelop-clasping machine. H. F. Affelder. No. 1,328,472; Jan. 20; v. 270; p. 397.
Envelop construction. J. C. Blue. No. 1,335,814; Apr. 6; v. 273; p. 21.
Envelop, Double. P. A. Moberg. No. 1,356,872; Oct. 26; v. 279; p. 616.
Envelop, Double. G. M. Stevens. No. 1,347,797; July 27; v. 276; p. 666.
Envelop, Duplex. J. J. Dorgan and M. J. Sullivan. No. 1,334,138; Mar. 16; v. 272; p. 484.
Envelop-fastener. A. Novick. No. 1,358,234; Nov. 9; v. 280; p. 260.
Envelop feeding and handling device. C. L. Post. No. 1,337,266; Apr. 20; v. 273; p. 431.
Envelop-machine. H. Levine. No. 1,343,146; June 8; v. 275; p. 354.
Envelop-machine. A. Novick. No. 1,328,011; Jan. 13; v. 270; p. 272.
Envelop machines, Looper mechanism for tension-. J. Mortensen. No. 1,354,328; Sept. 28; v. 278; p. 655.
Envelop machine, Window-. E. E. Brookes. No. 1,338,119; Apr. 27; v. 273; p. 662.
Envelop-opener. J. A. Mulligan. No. 1,353,413; Sept. 21; v. 278; p. 426.
Envelop or card delivery cabinet. T. A. Matthews. No. 1,357,071; Oct. 26; v. 279; p. 655.
Envelop, Pay-. R. E. Fisher and W. M. York. No. 1,346,372; July 13; v. 276; p. 268.
Envelop, Phonograph-record. M. N. Wasisco. No. 1,360,836; Nov. 30; v. 280; p. 931.
Envelop, Record-index. J. Zimmerman. No. 1,336,270; Apr. 6; v. 273; p. 107.
Envelop, Safety-. M. R. Geyer. No. 1,349,061; Aug. 10; v. 277; p. 232.
Envelop, Safety-. J. J. Mendenhall. No. 1,336,646; Apr. 13; v. 273; p. 237.
Envelop, Safety-. A. Praszek. No. 1,360,793; Nov. 30; v. 280; p. 922.

Digitized by Google

Alphabetical list of inventions—Continued.

Envelop-sealer. A. Bevan. No. 1,344,375; June 22; v. 275; p. 723.
Envelop sealing and stamping machine. I. Hinerfeld. No. 1,348,493; Aug. 3; v. 277; p. 70.
Envelop stamping and sealing machine. A. A. Thacker. No. 1,363,065; Dec. 21; v. 281; p. 510.
Envelop, Window-. W. A. Gray. No. 1,358,436; Nov. 9; v. 280; p. 302.
Envelops and wallets, Card-holder for. A. Bushnell, Jr. No. 1,345,993; July 6; v. 276; p. 132.
Envelops, Machine for attaching strings to. C. F. Pfanze. No. 1,340,909; May 25; v. 274; p. 628.
Envelops, Machine for making window-. C. F. Pfanze. No. 1,361,545; Dec. 7; v. 281; p. 115.
Envelops, Making open-face. G. W. Swift, Jr. No. 1,337,735; Apr. 20; v. 273; p. 520.
Envelops, Making window-. V. E. Heywood. No. 1,353,588; Sept. 21; v. 278; p. 462.
Envelops, Making window-. W. Langguth. No. 1,341,807; June 1; v. 275; p. 39.
Envelops, Mechanism for making open-face. G. W. Swift, Jr. No. 1,337,734; Apr. 20; v. 273; p. 519.
Equalizer. N. Croonholm. No. 1,344,334; June 22; v. 275; p. 715.
Equalizer. J. M. Ellis. No. 1,346,097; July 6; v. 276; p. 152.
Eraser-cleaner. W. E. Lane. No. 1,357,406; Nov. 2; v. 280; p. 39.
Eraser-cleaner. J. Paterson, Jr. No. 1,338,586; Apr. 27; v. 273; p. 749.
Eraser-holder and point-protector for pencils, Combined. V. B. Dawson. No. 1,353,896; Sept. 28; v. 278; p. 567.
Erecting-machine. C. G. Hastings. No. 1,342,503; June 8; v. 275; p. 227.
Eschallot. W. L. Fletcher. No. 1,363,580; Dec. 28; v. 281; p. 650.
Etching apparatus. C. R. Hendricks. No. 1,339,457; May 11; v. 274; p. 226.
Etching apparatus. R. R. Page. No. 1,340,975; May 25; v. 274; p. 642.
Etching-machine. H. R. Congdon. No. 1,359,872; Nov. 23; v. 280; p. 673.
Etching-machine. W. S. Eaton. No. 1,341,739; June 1; v. 275; p. 25.
Etching-machine. W. F. Nicholas. No. 1,345,210; June 29; v. 275; p. 951.
Etching process. C. G. Olson. No. 1,357,816; Nov. 2; v. 280; p. 117.
Ether-administering appliance. C. K. Teter. No. 1,362,201; Dec. 14; v. 281; p. 291.
Ether, Continuous production of. E. A. Barbet. No. 1,328,258; Jan. 20; v. 270; p. 356.
Ether-wave control, System of. J. H. Hammond, Jr. No. 1,339,927; May 11; v. 274; p. 315.
Etheric disturbances, Means for and method of producing. C. L. Fortescue. No. 1,355,551; Oct. 12; v. 279; p. 270.
Ethylaminobenzoic alkyl esters and their derivatives, B-alkylamino-. J. Altwegg and J. Landrivon. No. 1,334,642; Mar. 23; v. 272; p. 624.
Ethylaminobenzoic esters and their derivatives, Beta-halogen-. J. Altwegg and J. Landrivon. No. 1,334,641; Mar. 23; v. 272; p. 624.
Ethylene, Compression, storage, &c, of. A. A. Backhaus. No. 1,339,431; May 11; v. 274; p. 220.
Evaporating and crystallizing apparatus adapted for obtaining large crystals. C. Prache. No. 1,331,373; Feb. 17; v. 271; p. 479.
Evaporating and distilling apparatus. A. Duodo. No. 1,353,521; Sept. 21; v. 278; p. 448.
Evaporation system. W. L. De Baufre. No. 1,361,834; Dec. 14; v. 281; p. 217.
Evaporator. C. F. Braun. No. 1,334,014; Mar. 16; v. 272; p. 460.
Evaporator. J. N. Brooke. No. 1,349; 810; Aug. 17; v. 277; p. 452.
Evaporator. R. D. Kehoe. No. 1,363,323; Dec. 28; v. 281; p. 601.
Evaporator. F. W. Kreutter. No. 1,358,165; Nov. 9; v. 280; p. 246.
Evaporator. W. Meischke-Smith. No. 1,327,247; Jan. 6; v. 270; p. 69.
Evaporator and condenser. F. H. Schubert. No. 1,361,910; Dec. 14; v. 281; p. 232.
Evaporator and operating such evaporator. G. H. Benjamin. No. 1,355,935; Oct. 19; v. 279; p. 384.
Evaporator and pasteurizer. J. F. Ruff. No. 1,354,342; Sept. 28; v. 278; p. 657.
Evaporator, Crank-case. F. I. Cochrane. No. 1,351,716; Aug. 31; v. 277; p. 932.
Evaporator system, High-heat-level. R. C. Jones. No. 1,328,998; Jan. 27; v. 270; p. 525.
Evaporator weir-overflow. W. H. Ripley. No. 1,361,905; Dec. 14; v. 281; p. 231.
Evaporimeter or atmometer. C. G. Bates. No. 1,332,659; Mar. 2; v. 272; p. 98.
Evaporizer. C. L. Stottmeister. No. 1,359,000; Nov. 16; v. 280; p. 458.
Evener and cutter, Combined. G. W. Duvall, N. H. Beebe, and H. E. Smith. No. 1,337,056; Apr. 13; v. 273; p. 317.
Excavating and grading machine. L. A. Krupp. No. 1,347,860; July 27; v. 276; p. 678.
Excavating and loading apparatus. J. M. London. No. 1,327,053; Jan. 6; v. 270; p. 33.
Excavating and loading machine. W. M. Gross. No. 1,332,662; Mar. 2; v. 272; p. 93.
Excavating and wagon-loading machine, Earth-. O. E. Moats. No. 1,329,673; Feb. 3; v. 271; p. 61.
Excavating apparatus. E. E. Phillips. No. 1,356,008; Oct. 19; v. 279; p. 399.
Excavating apparatus. J. L. and J. L. Potter. No. 1,360,681; Nov. 30; v. 280; p. 900.
Excavating apparatus. W. M. Venable. No. 1,360,475; Nov. 30; v. 280; p. 860.
Excavating-machine. R. A. Bayles. No. 1,335,932; Apr. 6; v. 273; p. 43.
Excavating-machine. B. F. Du Pont. No. 1,359,237; Nov. 16; v. 280; p. 502.
Excavating-machine. J. A. MacKillican and F. L. Lipcsey. No. 1,351,212; Aug. 31; v. 277; p. 833.
Excavating-machine. O. G. Petersen. No. 1,340,247; May 18; v. 274; p. 432.
Excavating-machine, Breast-cutter. J. C. French. No. 1,329,591; Feb. 3; v. 271; p. 46.
Excavating-machines, Means for leveling and staying. R. M. Downie. No. 1,350,992; Aug. 24; v. 277; p. 727.
Excavating-shovel. J. W. Page. No. 1,328,013; Jan. 13; v. 270; p. 273.
Excavations for foundations, piers, columns, &c., Apparatus for sinking. F. J. De Garay. No. 1,331,186; Feb. 17; v. 271; p. 445.
Excavator. E. D. Callen. No. 1,342,895; June 8; v. 275; p. 305.
Excavator. H. R. Straight. No. 1,362,056; Dec. 14; v. 281; p. 262.
Excavator. J. J. Warren. No. 1,345,296; June 29; v. 275; p. 967.
Excavator and operating means therefor, Shovel-. T. C. Arpe. No. 1,354,870; Oct. 5; v. 279; p. 84.
Excavator-bucket cleaner. C. E. Stahl. No. 1,336,595; Apr. 13; v. 273; p. 228.
Excavator, crusher, and vaporizer, Combination. W. A. Huelsdonk. No. 1,340,445; May 18; v. 274; p. 470.
Excavator-dipper. M. E. Pugh. No. 1,339,606; May 11; v. 274; p. 254.
Excavator, Portable. A. A. Briggs. No. 1,339,687; May 11; v. 274; p. 270.
Excavator, Power-. R. C. Keogan. No. 1,353,913; Sept. 28; v. 278; p. 570.
Excavators, Cutter for. V. Schmidt. No. 1,336,657; Apr. 13; v. 273; p. 239.
Excavators, Mechanical trip for. P. E. Dutcher. No. 1,356,520; Oct. 26; v. 279; p. 547.
Excelsior-cutting machine. G. W. Berry. No. 1,341,037; May 25; v. 274; p. 653.
Exerciser. H. J. Warner. No. 1,332,005; Mar. 9; v. 272; p. 210.
Exercising apparatus. H. M. Ruden. No. 1,344,963; June 29; v. 275; p. 902.
Exercising apparatus, Cabinet for an. J. J. Cooper. No. 1,336,774; Apr. 13; v. 273; p. 262.
Exhauster. H. W. Lowe. No. 1,350,104; Aug. 17; v. 277; p. 509.
Exhibiting device. F. A. Goodnow. No. 1,361,981; Dec. 14; v. 281; p. 247.
Exhibiting device. S. Pfaster. No. 1,328,192; Jan. 13; v. 270; p. 307.
Exhibiting or display device. C. R. Finch. No. 1,358,534; Nov. 9; v. 280; p. 321.
Exhibitor. W. S. Skelton. No. 1,343,646; June 15; v. 275; p. 515.
Exhibitor, Changeable. A. Lo Casto. No. 1,344,642; June 29; v. 275; p. 841.
Expander. A. E. Hansen. No. 1,346,957; July 20; v. 276; p. 442.
Expanding drill. W. H. Clark. No. 1,357,689; Nov. 2; v. 280; p. 92.
Expansible washer. L. D. Lovekin. No. 1,344,417; June 22; v. 275; p. 731.
Expansion-bolt. H. W. Aylward. No. 1,349,998; Aug. 17; v. 277; p. 489.
Expansion-bolt. W. C. Beckwith. No. 1,342,201; June 1; v. 275; p. 116.
Expansion-bolt. T. F. Devlin. No. 1,361,836; Dec. 14; v. 281; p. 218.
Expansion-bolt. G. E. Osgood. No. 1,359,833; Nov. 23; v. 280; p. 665.
Expansion-bolt. E. C. Royer. No. 1,349,437; Aug. 10; v. 277; p. 307.
Expansion connection. F. Sargent. No. 1,342,133; June 1; v. 275; p. 102.
Expansion-engine. A. V. Larson. No. 1,343,056; June 8; v. 275; p. 336.
Expansion-joint. J. A. Bogart. (Reissue.) No. 14,906; July 6; v. 276; p. 153.
Expansion-joint. H. C. Riehle. No. 1,329,631; Feb. 3; v. 271; p. 54.
Expansion-joint. R. Ruppel. No. 1,336,924; Apr. 13; v. 273; p. 292.
Expansion-joint. R. Ullrich. No. 1,336,111; Apr. 6; v. 273; p. 77.

Digitized by Google

Alphabetical list of inventions—Continued.

Expansion-joint. R. Warriner. No. 1,354,706; Oct. 5; v. 279; p. 52.
Expansion-joint strip. S. B. Waring. No. 1,328,107; Jan. 13; v. 270; p. 291.
Expansion-pipe joint. F. C. Heylman. No. 1,363,974; Dec. 28; v. 281; p. 726.
Expelling-pin. D. J. Bell. No. 1,339,157; May 4; v. 274; p. 94.
Experiments, Apparatus for conducting. R. W. Bennett. No. 1,338,967; May 4; v. 274; p. 58.
Explosion-arrester. E. R. Berry. No. 1,328,485; Jan. 20; v. 270; p. 400.
Explosion-engine. T. D. Robinson. No. 1,355,428; Oct. 12; v. 279; p. 246.
Explosions, Device for registering. A. D. Reese. No. 1,343,875; June 15; v. 275; p. 562.
Explosive. L. O. Bryan and W. R. Swint. No. 1,327,859; Jan. 13; v. 270; p. 244.
Explosive. J. A. Hardel. No 1,337,451; Apr. 20; v. 273; p. 465.
Explosive. J. R. Mardick. No. 1,335,788; Apr. 6; v 273; p. 16.
Explosive. J. R. Mardick and F. M. Becket. No 1,335,789; Apr. 6; v. 273; p. 16.
Explosive, Ammonium-nitrate. J. B. Bronstein and C. E. Waller. No. 1,343,077; June 8; v. 275; p. 341.
Explosive, Ammonium-nitrate. W. O. Snelling. No. 1,343,063; June 8; v. 275; p. 338.
Explosive, Ammonium perchlorate. O. B. Carlson. No. 1,327,985; Jan. 13; v. 270; p. 268.
Explosive and manufacturing same, Nitrostarch. W. O. Snelling and W. R. Lams. No. 1,329,211; Jan. 27; v. 270; p. 565.
Explosive and preparing same. J. R. Mardick. No. 1,335,790; Apr. 6; v. 273; p. 16.
Explosive and preparing same, Gelatinized propellent. F. L. Nathan, W. Rintoul, and F. Baker. No. 1,338,691; May 4; v. 274; p. 8.
Explosive composition. W. G. Hudson. No. 1,329,525; Feb. 3; v. 271; p. 35.
Explosive, Desensitized nitroglycerin. A. A. Starring. No. 1,336,661; Apr. 13; v. 273; p. 240.
Explosive-engine. W. Barber. No. 1,346,805; July 20; v. 276; p. 413.
Explosive-engine. A. C. Bennett. No. 1,328,484; Jan. 20; v. 270; p. 399.
Explosive-engine. R. E. Meyer. No. 1,354,675; Oct. 5; v. 279; p. 46.
Explosive-engine. P. W. Murphy. No. 1,352,985; Sept 14; v. 278; p. 284.
Explosive-engine. J. P. Trego, Jr. No. 1,340,580; May 18; v. 274; p. 496.
Explosive-engine-starting device. A. Weiss. No. 1,361,787; Dec. 7; v. 281; p. 161.
Explosive-engines, Fire-screens for. F. H. Merrill. No. 1,363,801; Dec. 28; v. 281; p. 693.
Explosive material into shells, or other receptacles, Apparatus for filling. W. Sumner. No. 1,337,490; Apr. 20; v. 273; p. 473.
Explosive materials, Manufacture of. P. Landrin. No. 1,334,462; Mar. 23; v. 272; p. 590.
Explosive mixture. R. L. Hill. No. 1,334,303; Mar. 23; v. 272; p. 560.
Explosive mixture. R. L. Hill. No. 1,360,397; Nov. 30; v. 280; p. 844.
Explosive mixture. R. L. Hill. No. 1,360,398; Nov. 30; v. 280; p. 845.
Explosive mixture. R. L. Hill. No. 1,360,399; Nov. 30; v. 280; p. 845.
Explosive-mixture-preparing device. M. J. Trumble. No. 1,359,293; Nov. 16; v. 280; p. 512.
Explosive-motor. H. I. Sawyer. No. 1,360,690; Nov. 30, v. 280; p. 902.
Explosives, Carrier for. C. A. Cottle. No. 1,346,636; July 13; v. 276; p. 320.
Explosives, Charging containers with high. C. A. Woodbury. No. 1,329,566; Feb. 3; v. 271; p. 42.
Explosive, Propellant. O. Silberrad. No. 1,349,983; Aug. 17; v. 277; p. 486.
Explosive substances, Preventing danger of explosion in the preparation and handling of dangerous. G. Darier and C. Goudet. No. 1,349,411; Aug. 10; v. 277; p. 302.
Explosives, Gelatinization of cellulose nitric esters in manufacture of. W. Rintoul and T. J. Nolan. No. 1,348,741; Aug. 3; v. 277; p. 117.
Explosives, Manufacture of. G. A. Hedberg. No. 1,335,785; Apr. 6; v. 273; p. 16.
Explosives, Manufacturing nitrostarch. W. O. Snelling and W. R. Lams. No. 1,329,212; Jan. 27; v. 270; p. 656.
Exposure-indicator. J. D. Ferry. No. 1,344,873; June 29; v. 275; p. 885.
Exposure-meter. M. L. Godefroy. No. 1,346,088; July 6; v. 276; p. 151.
Exposure-meter. D. S. Smith. No. 1,358,372; Nov. 9; v. 280; p. 309.
Exposure-table. L. Smith. No. 1,348,382; Aug. 3; v. 277; p. 50.
Exposure-table. L. Smith. No. 1,357,085; Oct. 26; v. 279; p. 658.
Expressing apparatus. A. W. French. No. 1,327,093; Jan. 6; v. 270; p. 40.
Expressing apparatus. A. W. French. No. 1,360,205; Nov. 23; v. 280; p. 739.
Expressing apparatus, Cage-press. A. W. French and C. R. Smith. No. 1,350,206; Nov. 23; v. 280; p. 739.
Extension-table. H. Crump. No. 1,338,558; Apr. 27; v. 273; p. 744.
Extension-table. E. A. Hensal. No. 1,328,243; Jan. 13; v. 270; p. 317.
Extension-table. E. T. Noennig. No. 1,349,471; Aug. 10; v. 277; p. 313.
Extensible table. H. Nonnast and W. Tesar. No. 1,333,035; Mar. 9; v. 272; p. 215.
Extension-table. P. Nyholm. No. 1,337,092; Apr. 13; v. 273; p. 324.
Extension-table. E. D. Parrott. No. 1,327,878; Jan. 13; v. 270; p. 248.
Extension-table. J. Rogginger. No. 1,335,859; Apr. 6; v. 273; p. 29.
Extension-table. A. H. Stone. No. 1,346,276; July 13; v. 276; p. 249.
Extension-table. C. R. Wennerstrom. No. 1,342,481; June 8; v. 275; p. 222.
Extensible table. H. and C. Winberg. No. 1,353,631; Dec. 28; v. 281; p. 660.
Extension-table. F. Wohlmann. No. 1,351,457; Aug. 31; v. 277; p. 882.
Extension-wrench. A. C. Martin. No. 1,335,590; Mar. 30; v. 272; p. 862.
Exterminator, Animal-. J. T. Berthelote. No. 1,328,117; Jan. 13; v. 270; p. 293.
External-explosion engine. W. E. Lawn. No. 1,328,160; Jan. 13; v. 270; p. 301.
Extraction. T. J. Fairley. No. 1,353,035; Sept. 14; v. 278; p. 293.
Extractor: *See*—
Automobile-extractor.
Bushing-extractor.
Clinker-extractor.
Cork-extractor.
Cotter-extractor.
Cotter-pin extractor.
Flue-extractor.
Hydro-extractor.
Juice-extractor.
Lemon-juice extractor.
Spike-extractor.
Staple-extractor.
Stopper-extractor.
Tobacco-extractor.
Valve-extractor.
Vapor-extractor.
Extractor safety devices. E. W. Miller. No. 1,352,827; Sept. 14; v. 278; p. 253.
Extractors, Heat-prevention means for. W. Bartholomew. No. 1,346,873; July 20; v. 276; p. 426.
Extrusion-press. F. E. Stevenson. No. 1,335,466; Mar. 30; v. 272; p. 839.
Eye-bushings, Method and apparatus for inserting. W. M. Hanson. No. 1,346,199; July 13; v. 276; p. 233.
Eye-cup and container, Combination. C. H. Trullinger. No. 1,336,109; Apr. 6; v. 273; p. 77.
Eye-guard. G. F. Storm. No. 1,352,156; Sept. 7; v. 278; p. 85.
Eye instrument. E. S. Buckland. No. 1,359,870; Nov. 23; v. 280; p. 672.
Eye-protector. G. H. Day. No. 1,340,701; May 18; v. 274; p. 519.
Eye-protector. R. Malcom. No. 1,328,287; Jan. 20; v. 270; p. 361.
Eye-protector. H. H. Styll. No. 1,363,689; Dec. 28; v. 281; p. 671.
Eye-shade and reflector, Combined. G. C. Coching. No. 1,353,630; Sept. 21; v. 278; p. 471.
Eye-shield. F. Bergmann. No. 1,337,036; Apr. 13; v. 273; p. 318.
Eye-shield. W. H. Wilmer. No. 1,336,009; Apr. 6; v. 273; p. 58.
Eye-shield for automobile-drivers. J. F. Keltz. No. 1,353,759; Sept. 21; v. 278; p. 496.
Eye syringe and massage device. E. H. Galligan. No. 1,350,719; Aug. 24; v. 277; p. 676.
Eye-tester. H. E. Myers No. 1,349,625; Aug. 17; v. 277; p. 417.
Eye-testing apparatus. C. P. Scarsten. No. 1,358,789; Nov. 16; v. 280; p. 416.
Eye-testing devices, Cabinet for exhibiting. J. M. Scott. No. 1,337,728; Apr. 20; v. 273; p. 518.
Eye-testing instrument. G. H. Day. No. 1,348,092; July 27; v. 276; p. 724.
Eye-testing mechanism. S. C. Barr. No. 1,345,573; July 6; v. 276; p. 48.
Eye, Testing the color perception and susceptibility to light irritation of the retina of the human. I. Frank. No. 1,354,900; Oct. 5; v. 279; p. 90.
Eye treatment, Apparatus for. F. E. Dayton. No. 1,362,682; Dec. 21; v. 281; p. 436.
Eye-washing apparatus. G. C. Precerutti. No. 1,331,874; Feb. 17; v. 271; p. 479.
Eyes, Apparatus for massaging the. J. Roger. No. 1,346,724; July 13; v. 276; p. 337.
Eyes, Machine for forming spring-. W. Evans. No. 1,339,443; May 11; v. 274; p. 223.
Eyeglass-case. J. M. Bradley and C. F. Pike. No. 1,328,644; Jan. 20; v. 270; p. 429.
Eyeglass-case. J. M. Bradley and C. F. Pike. No. 1,328,645; Jan. 20; v. 270; p. 429.
Eyeglass-case. J. M. Bradley and C. F. Pike. No. 1,328,646; Jan. 20; v. 270; p. 429.
Eyeglass-case. E. McHugh. No. 1,333,864; Mar. 16; v. 272; p. 431.

Digitized by Google

Eyeglass case and cleaning device. R. A. Goelkel. No. 1,339,330; May 4; v. 274; p. 125.
Eyeglass-mounting. E. R. Durgin. No. 1,347,008; July 27; v. 276; p. 705.
Eyeglass-mounting. D. F. Grun. No. 1,334,490; Mar. 23; v. 272; p. 595.
Eyeglass-mounting. C. M. Haynes. No. 1,342,808; June 8; v. 275; p. 288.
Eyeglass or goggle support. C. L. Strickler. No. 1,361,640; Dec. 7; v. 281; p. 183.
Eyeglass or spectacle frames, Hinge for. E. E. Shreiner. No. 1,342,973; June 8; v. 275; p. 320.
Eyeglass-rim. J. F. Hoeft. No. 1,356,449; Oct. 19; v. 279; p. 486.
Eyeglass-rims, Sizing device for. C. A. Kline. No. 1,327,330; Jan. 6; v. 270; p. 84.
Eyeglass-shield. G. Mayerle. No. 1,335,517; Mar. 30; v. 272; p. 849.
Eyeglasses. E. C. Bernheim. No. 1,347,072; July 20; v. 276; p. 465.
Eyeglasses. A. V. Brown. No. 1,329,885; Feb. 3; v. 271; p. 101.
Eyeglasses. L. M. Colman. No. 1,359,576; Nov. 23; v. 280; p. 615.
Eyeglasses. D. Contento. No. 1,338,174; Apr. 27; v. 273; p. 672.
Eyeglasses and spectacles, Rim for. E. R. Durgin. No. 1,335,942; Apr. 6; v. 273; p. 45.
Eyeglasses and spectacles, Rimmed. S. Goldfaden. No. 1,341,503; May 20; v. 274; p. 744.
Eyeglasses and spectacles. F. G. Burgess. No. 1,355,535; Oct. 12; v. 279; p. 267.
Eyeglasses, Finger-piece mounting for. C. M. Haynes. No. 1,345,488; July 6; v. 276; p. 82.
Eyeglasses or spectacles. M. Hansen. No. 1,358,200; Nov. 9; v. 280; p. 253.
Eyeglasses, Universal support for. J. M. Young. No. 1,334,878; Mar. 23; v. 272; p. 670.
Eyelet and hook setting machines, Positioning device for. L. F. Muther. No. 1,336,854; Apr. 13; v. 273; p. 278.
Eyelet-machine. L. F. Muther. No. 1,336,855; Apr. 13; v. 273; p. 278.
Eyelet-machine. W. D. Pierson. No. 1,348,892 Aug. 10; v. 277; p. 199.
Eyelet-machine. W. D. Pierson. No. 1,358,493; Sept. 21; v. 278; p. 442.
Eyelets, Setting. S. L. Gookin. No. 1,327,033; Jan. 6; v. 270; p. 29.
Eyeleter, Duplex. F. L. Harmon. (Reissue.) No. 14,932; Aug. 17; v. 277; p. 546.
Eyeleting and like machines, Magazine-charging appliance for. G. M. Williams. No. 1,358,044; Nov. 9; v. 280; p. 222.
Eyeleting machine. F. L. Harmon. (Reissue.) No 14,931; Aug. 17; v. 277; p. 545.
Eyeleting-machine. W. Hughes. No. 1,361,863; Dec. 14; v. 281; p. 224.
Eyeleting-machine. F. A. Rummey. No. 1,341,763; June 1; v. 275; p. 30.
Eyeleting-machine. R. B. Smith. No. 1,351,138; Aug. 31; v. 277; p. 818.

Fabric: *See*—

Beaded fabric.
Bed-spring fabric.
Belting fabric.
Building fabric.
Cloth fabric.
Combination fabric.
Elastic fabric.
Hair fabric.
Heat-insulating fabric.
Metal fabric.
Pile fabric.
Rubber fabric.
Sheet-metal fabric.
Spring fabric.
Tire fabric.
Wire fabric.
Waterproofed fabric.
Woven pile fabric.

Fabric. H. C. Egerton. No. 1,352,739; Sept. 14; v. 278; p. 234.
Fabric. D. F. Fry and C. R. Whitton. No. 1,328,623; Jan. 20; v. 270; p. 425.
Fabric. J. Waterfield. No. 1,335,627; Mar. 30; v. 272; p. 869.
Fabric and apparatus therefor, Weaving multiply tubular. M. P. Du Pray. No. 1,357,967; Nov. 9; v. 280; p. 207.
Fabric and making same. J. N. Wiggin. No. 1,352,569; Sept. 14; v. 278; p. 201.
Fabric and making same, Composite unwoven. R. B. Respess. No. 1,355,265; Oct. 12; v. 279; p. 215.
Fabric and making same, Open-mesh joint in textile and other. L. Bruger. No. 1,340,117; May 11; v. 274; p. 351.
Fabric and making same, Woven. J. A. Migel. No. 1,333,032; Mar. 9; v. 272; p. 215.
Fabric and producing same, Coated. J. A. Wilson. No. 1,352,163; Sept. 7; v. 278; p. 87.
Fabric and yarn and making, Pile. A. G. From. No. 1,339,753; May 11; v. 274; p. 282.
Fabric, Apparatus for making strand. W. Jameson. No. 1,327,826; Jan. 13; v. 270; p. 238.
Fabric band, Laminated cohesive interwound. L. A. Subers. No. 1,339,869; May 11; v. 274; p. 304.
Fabric-clamp. R. W. Biddlecom. No. 1,351,551; Aug. 31; v. 277; p. 901.
Fabric-cutting device. G. C. Hosch. No. 1,343,722; June 15; v. 275; p. 530.
Fabric-cutting machine. A. C. Bunker. No. 1,356,485; Oct. 19; v. 279; p. 493.

Fabric feeding and stretching mechanism. D. S. Seymour. No. 1,354,514; Oct. 5; v. 279; p. 13.
Fabric-frame. A. B. Simon. No. 1,345,030; June 29; v. 275; p. 915.
Fabric-frame-moving mechanism, Stopping mechanism for. B. Wetzstein. No. 1,339,049; May 4; v. 274; p. 74.
Fabric laying and cutting machine. J. Goch. No. 1,354,614; Oct. 5; v. 279; p. 34.
Fabric machine, Bias-. H. I. Morris. No. 1,359,092; Nov. 16; v. 280; p. 474.
Fabric, Machine for making building. W. C. Coryell. No. 1,353,456; Sept. 21; v. 278; p. 435.
Fabric machine, Interposed-. W. S. Southwick. No. 1,351,350; Aug. 31; v. 277; p. 861.
Fabric-making machine. H. E. Brown. No. 1,336,343; Apr. 6; v. 273; p. 120.
Fabric, Manufacturing a composite. E. G. Buchmann. No. 1,355,534; Oct. 12; v. 279; p. 267.
Fabric, Method and apparatus for conditioning prepared. F. M. Furber; No. 1,350,368; Aug. 24; v. 277; p. 606.
Fabric, Method and product for dyeing textile. J. W. Fries. No. 1,341,637; June 1; v. 275; p. 5.
Fabric, Method of and means for binding the edges of reed. M. B. Lloyd. No. 1,336,571; Apr. 13; v. 273; p. 223.
Fabric, Parchmentising. J. M. Taylor. No. 1,350,685; Aug. 24; v. 277; p. 669.
Fabric sections, Uniting. J. Berger, Jr. No. 1,349,711; Aug. 17; v. 277; p. 434.
Fabric sections, Uniting. J. Berger, Jr. No. 1,349,712; Aug. 17; v. 277; p. 434.
Fabric stripping or cutting machine. A. M. Blakeslee. No. 1,338,551; Apr. 27; v. 273; p. 743.
Fabric structures, Constructing. C. A. Salisbury. No. 1,358,582; Nov. 9; v. 280; p. 330.
Fabric, Treating. W. C. Carter. No. 1,327,904; Jan. 18; v. 270; p. 253.
Fabric, Treating. E. E. A. G. Meyer. No. 1,344,645; June 29; v. 275; p. 842.
Fabric-treating device. H. M. Dudley. No. 1,327,659; Jan. 13; v. 270; p. 207.
Fabric-treating device. H. M. Dudley. No. 1,330,247; Feb. 10; v. 271; p. 200.
Fabric-treating device. H. M. Dudley. No. 1,334,528; Mar. 23; v. 272; p. 602.
Fabric-treating device. H. M. Dudley. No. 1,335,098; Mar. 30; v. 272; p. 771.
Fabric-treating machine. H. M. Dudley. No. 1,331,743; Feb. 24; v. 271; p. 569.
Fabric-treating machine, Textile-. L. Clarenbach. No. 1,351,621; Aug. 31; v. 277; p. 914.
Fabrics, Apparatus for impregnating or treating textiles. J. D. Taylor. No. 1,331,729; Feb. 24; v. 271; p. 566.
Fabrics, Apparatus for singeing. H. Whitaker. No. 1,350,582; Aug. 24; v. 277; p. 650.
Fabrics, Apparatus for steaming. J. Grasser. No. 1,340,482; May 18; v. 274; p. 477.
Fabrics being hemmed, Guide for. R. Loeb. No. 1,357,065; Oct. 26; v. 279; p. 654.
Fabrics, Coating. L. Kirkpatrick. No. 1,360,763; Nov. 30; v. 280; p. 916.
Fabrics, Coating. A. Thoma. No. 1,346,615; July 13; v. 276; p. 316.
Fabrics, Electric centering device for tire. G. F. Fisher. No. 1,332,979; Mar. 9; v. 272; p. 205.
Fabrics, Forming tubular cord. J. H. and J. H., Jr., Coffey. No. 1,339,103; May 4; v. 274; p. 85.
Fabrics, Machine for forming tubular. H. D. Tracy. No. 1,340,425; May 18; v. 274; p. 467.
Fabrics, Machine for handling tubular. J. V. Palmer. No. 1,334,114; Mar. 16; v. 272; p. 479.
Fabrics, Machine for laying. H. I. Rosenblum. No. 1,343,339; June 15; v. 275; p. 454.
Fabrics, Machine for treating cut pile. D. H. Stoud. No. 1,344,777; June 29; v. 275; p. 868.
Fabrics, Machines for piercing piles of. D. B. Ashman. No. 1,361,664; Dec. 7; v. 281; p. 137.
Fabrics, Method and means for treating light-weight. W. Bancroft. No. 1,342,935; June 8; v. 275; p. 313.
Fabrics, Method of and apparatus for weaving textile. E. Ingham. No. 1,328,794; Jan. 20; v. 270; p. 457.
Fabrics, Producing tapestry pile. A. G. Fromuth. No. 1,330,859; Feb. 17; v. 271; p. 382.
Fabrics, Stentering or stretching device applicable to heated cylindrical can-drying machines for textile. J. R. Stevenson. No. 1,336,385; Apr. 6; v. 273; p. 129.
Fabrics, Stock-shell for winding. W. F. Gammeter. No. 1,332,329; Mar. 2; v. 272; p. 29.
Fabrics, Thread-cutting machine for embroidered. E. Mittelholzer. No. 1,335,450; Mar. 30; v. 272; p. 836.
Fabrics, Treating tubular knitted. J. V. Palmer. No. 1,334,164; Mar. 16; v. 272; p. 488.
Fabrics with liquids, Apparatus for treating hanks of textile. W. Dürsteler. No. 1,329,166; Jan. 27; v. 270; p. 556.
Face-plate for flush receptacles. G. B. Thomas. No. 1,342,237; June 1; v. 275; p. 123.
Facial pad adopted for use with field glasses and other optical instruments and means for supporting the same alone or with other instruments or appliances on the head of the observer. E. T. P. Goodyear. No. 1,336,708; Oct. 26; v. 279; p. 583.

Digitized by Google

Factoring device. N. B. Braly. No. 1,354,375; Sept. 28; v. 278; p. 664.
Fair-lead. G. F. Gray. No. 1,346,539; July 13; v. 276; p. 301.
Faller-bar. W. Holdsworth. No. 1,329,904; Feb. 3; v. 271; p. 105.
Fan. P. A. Anderson. No. 1,328,255; Jan. 20; v. 270; p. 355.
Fan. A. A. Canton. No. 1,348,477; Aug. 3; v. 277; p. 68.
Fan. J. Dauster. No. 1,339,169; May 4; v. 274; p. 96.
Fan. W. Mehlhaf. No. 1,330,547; Feb. 10; v. 271; p. 256.
Fan. F. F. Rothenhoefer. No. 1,352,385; Sept. 7; v. 278; p. 128.
Fan. L. H. Svoboda. No. 1,357,261; Nov. 2; v. 280; p. 12.
Fan. F. W. Wuerth. No. 1,328,353; Jan. 20; v. 270; p. 374.
Fan adjustment. R. Harroun. No. 1,348,002; July 27; v. 276; p. 706.
Fan and guard coupling. F. G. Hoffine. No. 1,355,145; Oct. 12; v. 279; p. 190.
Fan and pump. Centrifugal. S. C. Davidson. No. 1,363,959; Dec. 28; v. 281; p. 724.
Fan, Automatic spring-. P. Pys. No. 1,354,916; Oct. 5; v. 279; p. 94.
Fan, Automobile-. L. Willour. No. 1,345,055; June 29; v. 275; p. 919.
Fan-blade. A. W. Tucker. No. 1,361,785; Dec. 7; v. 281; p. 161.
Fan, Centrifugal. A. A. Criqui. No. 1,341,882; June 1; v. 275; p. 53.
Fan, Centrifugal. A. Mathis. No. 1,354,673; Oct. 5; v. 279; p. 46.
Fan, Centrifugal exhaust-. C. M. Lee. No. 1,329,668; Feb. 3; v. 271; p. 60.
Fan, compressor, and motor-starter, Combination. M. Fujiura. No. 1,333,753; Mar. 16; v. 272; p. 411.
Fan construction. R. C. Root. No. 1,347,522; July 27; v. 276; p. 610.
Fan construction. D. M. White. No. 1,357,366; Nov. 2; v. 280; p. 32.
Fan, Electric. E. Phillipson. No. 1,328,055; Jan. 13; v. 270; p. 281.
Fan for use in spark-arresting and smoke-consuming devices. W. A. Watterson. No. 1,350,191; Aug. 17; v. 277; p. 526.
Fan, Motor-. C. H. J. Dilg. No. 1,337,644; Apr. 20; v. 273; p. 502.
Fan, Motor-. L. J. Parker. No. 1,362,036; Dec. 14; v. 281; p. 258.
Fan-motor. C. C. and J. Williams. No. 1,330,827; Feb. 17; v. 271; p. 376.
Fan-mounting, Lubricated. S. N. Senna. No. 1,328,017; Jan. 13; v. 270; p. 274.
Fan or blower. G. S. Leonard. No. 1,328,679; Jan. 20; v. 270; p. 435.
Fan, Oscillating. W. M. McEwen. No. 1,334,958; Mar. 30; v. 272; p. 744.
Fan-oscillating device. F. M. Landrum. No. 1,333,925; Mar. 16; v. 272; p. 443.
Fan, Oscillating electric. E. S. Pillsbury. No. 1,332,002; Feb. 24; v. 271; p. 619.
Fan, propeller. C. M. Lee. No. 1,341,653; June 1; v. 275; p. 8.
Fan, Reversing. P. Jensen. No. 1,347,377; July 20; v. 276; p. 525.
Fan, Rotary. G. B. Allison. No. 1,356,508; Oct. 26; v. 279; p. 545.
Fan, Rotary. A. Nelson. No. 1,352,829; Sept. 14; v. 278; p. 253.
Fan, score-card, and megaphone, Combination. G. K. Asano. No. 1,332,789; Mar. 2; v. 272; p. 117.
Fan, Spring-. A. Lind. No. 1,328,172; Jan. 13; v. 270; p. 303.
Fan support, Ventilating-. E. R. Winslow. No. 1,329,816; Feb. 3; v. 271; p. 88.
Fan-supporting device. M. Ainsworth. No. 1,332,875; Mar. 9; v. 272; p. 185.
Fan-supporting means, Radiator-. V. A. Baker. No. 1,352,869; Sept. 14; v. 278; p. 261.
Fan, Ventilator- M. M. Kohn. No. 1,337,560; Apr. 20; v. 273; p. 486.
Fan-wheel. D. Stanyo. No. 1,352,848; Sept. 14; v. 278; p. 257.
Fan-wheel, Centrifugal. M. S. Leonard. No. 1,331,071; Feb. 17; v. 271; p. 424.
Fan-wheel, Self-aligning. M. F. Phelps. No. 1,345,951; July 6; v 276; p. 123.
Fan-wheel, Self-aligning. M. F. Phelps. No. 1,345,952; July 6; v. 276; p. 124.
Fan with folding blades. A. Jaccard and J. Koff. No. 1,356,286; Oct. 19; v. 279; p. 455.
Fans, Lubricating system for. L. Schwitzer. No. 1,355,277; Oct. 12; v. 279; p. 217.
Fans, Oscillating mechanism for electric. W. G. Winter and H. I. Finch. No. 1,347,981; July 27; v. 276; p. 702.
Fans, Oscillator for electric. M. M. Glasser. No. 1,354,098; Sept. 28; v. 278; p. 608.
Fans, Spring-motor for. G. W. Turner. No. 1,362,653; Dec. 21; v. 281; p. 430.
Fare-box. D. M. Bell. No. 1,334,071; Mar. 16; v. 272; p. 471.
Fare-box. H. A. Mullett. No. 1,353,970; Sept. 28; v. 278; p. 582.
Fare box and register, Coin and ticket. J. M. Johnson. No. 1,344,898; June 29; v. 275; p. 890.
Fare-box and transfer-machine, Combination. D. B. Whistler. No. 1,355,873; Oct. 19; v. 279; p. 373.
Fare-box, Registering. D. B. Whistler and C. W. Ripsch. No. 1,355,875; Oct. 19; v. 279; p. 373.
Fare collecting and registering means. A. H. Woodward. No. 1,344,842; June 29; v. 275; p. 880.
Fare-recorder. H. J. Sibley and G. C. Coil. No. 1,360,591; Nov. 30; v. 280; p. 883.
Farm-gate. E. A. Dillingham. No. 1,362,929; Dec. 21; v. 281; p. 483.
Farm-gate. G. W. and C. E. Goss. No. 1,343,559; June 15; v. 275; p. 498.
Farm-gate. D. A. Gray. No. 1,350,967; Aug. 24; v. 277; p. 722.
Farm-gate. G. E. Hardesty. No. 1,361,152; Dec. 7; v. 281; p. 34.
Farm-gate. T. Huston. No. 1,341,905; June 1; v. 275; p. 57.
Farm-gate. J. F. Somers. No. 1,359,764; Nov. 23; v. 280; p. 652.
Farm implement. D. D. Sommers. No. 1,352,555; Sept. 14; v. 278; p. 198.
Farm implement. J. E. Rich. No. 1,351,063; Aug. 31; v. 277; p. 804.
Farm machinery, Seat-back for. S. P. Wolford. No. 1,358,273; Nov. 9; v. 280; p. 267.
Farming implement. W. H. Hollmann. No. 1,358,742; Nov. 16; v. 280; p. 407.
Farming-machine. A. J. H. Kuhsiek. No. 1,350,255; Nov. 16; v. 280; p. 505.
Farrowing-crate. A. W. Adix and G. W. Haglund. No. 1,361,660; Dec. 7; v. 281; p. 137.
Farrowing-pen fender. P. W. Sommer. No. 1,330,405; Feb. 10; v. 271; p. 230.
Fastener. G. M. Bills. No. 1,343,301; June 15; v. 275; p. 447.
Fastener. G. E. Bishop. No. 1,330,426; Feb. 10; v. 271; p. 234.
Fastener. W. M. Brooks. No. 1,348,473; Aug. 3; v. 277; p. 67.
Fastener. E. J. Bryan. No. 1,336,193; Apr. 6; v. 273; p. 93.
Fastener. J. P. Burke. No. 1,342,738; June 8; v. 275; p. 272.
Fastener. F. S. Carr. No. 1,335,865; Mar. 30; v. 272; p. 821.
Fastener. F. S. Carr. No. 1,335,866; Mar. 30; v. 272; p. 821.
Fastener. F. S. Carr. No. 1,337,115; Apr. 13; v. 273; p. 328.
Fastener. F. S. Carr. No. 1,337,116; Apr. 13; v. 273; p. 328.
Fastener. F. S. Carr. No. 1,337,117; Apr. 13; v. 273; p. 328.
Fastener. F. S. Carr. No. 1,337,118; Apr. 13; v. 273; p. 328.
Fastener. F. S. Carr. No. 1,337,119; Apr. 13; v. 273; p. 328.
Fastener. D. Hermanson. No. 1,331,106; Feb. 17; v. 271; p. 430.
Fastener. W. W. Jillard. No. 1,328,628; Jan. 20; v. 270; p. 426.
Fastener. C. M. and J. E. Mackenzie. (Reissue.) No. 14,975; Nov. 2; v. 280; p. 140.
Fastener. C. B. Merriam. No. 1,337,938; Apr. 20; v. 273; p. 558.
Fastener. F. G. Neuberth. No. 1,334,163; Mar. 16; v. 272; p. 488.
Fastener. W. A. Schuler. No. 1,348,666; Aug. 3; v. 277; p. 104.
Fastener. H. O. Smith. No. 1,341,600; May 25; v. 274; p. 762.
Fastener. P. H. Snyder. No. 1,363,367; Dec. 28; v. 281; p. 609.
Fastener, Casement-. R. W. Hope and A. Deathridge. No. 1,334,610; Mar. 23; v. 272; p. 618.
Fastener, Closure-. C. M. Wilkinson. No. 1,332,479; Mar. 2; v. 272; p. 58.
Fastener for closures. F. Hardinge. No. 1,330,184; Feb. 10; v. 271; p. 189.
Fastener for hinged structures. R. A. Lippincott and E. F. Billson. (Reissue.) No. 14,793; Jan. 20; v. 270; p. 458.
Fastener-inserting machine. S. A. Dobyne. No. 1,363,180; Dec. 21; v. 281; p. 532.
Fastener-mounting. B. Clark. No. 1,358,520; Nov. 9; v. 280; p. 318.
Fastener, Separable. F. A. Bauer. No. 1,330,159; Feb. 10; v. 271; p. 184.
Fastener, Separable. V. Puc. No. 1,361,096; Dec. 7; v. 281; p. 23.
Fastener, Separable. J. A. Thompson. No. 1,332,697; Mar. 2; v. 272; p. 100.

Digitized by Google

Fastener-setting machine. P. R. Glass. No. 1,334,258; Mar. 16; v. 272; p. 501.
Fastener-setting machine. P. J. Horgan. No. 1,337,229; Apr. 20; v. 273; p. 428.
Fasteners, Apparatus for applying. J. Fine. No. 1,355,457; Oct. 12; v. 279; p. 252.
Fastening. B. O. Beadle. No. 1,361,132; Dec. 7; v. 281; p. 30.
Fastening device. A. L. Bishop. No. 1,352,248; Sept. 7; v. 278; p. 102.
Fastening device. T. R. Gaines. No. 1,350,718; Aug. 24; v. 277; p. 676.
Fastening device. H. E. Hoenig. No. 1,354,396; Sept. 28; v. 278; p. 668.
Fastening device. W. S. Hunkins. No. 1,354,485; Oct. 5; v. 279; p. 8.
Fastening device. E. U. Kimbark. No. 1,336,629; Apr. 13; v. 273; p. 234.
Fastening device. W. H. Lucas. No. 1,329,191; Jan. 27; v. 270; p. 561.
Fastening device. F. C. McDonald. No. 1,357,574; Nov. 2; v. 280; p. 70.
Fastening device. J. and J. Miller. No. 1,347,705; July 27; v. 276; p. 647.
Fastening device. J. O. Muller. No. 1,336,752; Apr. 13; v. 273; p. 258.
Fastening device. R. C. Newton. No. 1,356,880; Oct. 26; v. 279; p. 617.
Fastening device. H. N. Nordwall. No. 1,357,722; Nov. 2; v. 280; p. 99.
Fastening device. G. D. Preston. No. 1,336,156; Apr. 6; v. 273; p. 85.
Fastening device. E. Rendano. No. 1,328,201; Jan. 13; v. 270; p. 309.
Fastening device. W. L. Rohbock. No. 1,352,918; Sept. 14; v. 278; p. 271.
Fastening device. G. S. Solomon. No. 1,335,617; Mar. 30; v. 272; p. 867.
Fastening device. I. Siegel. No. 1,359,440; Nov. 16; v. 280; p. 542.
Fastening device. H. A. Stearns, Jr. No. 1,333,348; Mar. 9; v. 272; p. 274.
Fastening device. A. Vasselli. No. 1,328,064; Jan. 13; v. 270; p. 283.
Fastening device. R. P. White. No. 1,330,966; Feb. 17; v. 271; p. 404.
Fastening-inserting machine. T. Briggs. No. 1,359,574; Nov. 23; v. 280; p. 614.
Fastening-inserting machine. J. A. Brogan. No. 1,360,090; Nov. 23; v. 280; p. 716.
Fastening-inserting machine. L. A. Casgrain. No. 1,361,013; Dec. 7; v. 281; p. 6.
Fastening-inserting machine. E. Erickson. No. 1,360,384; Nov. 30; v. 280; p. 842.
Fastening-inserting machine. W. H. Starratt. No. 1,331,129; Feb. 17; v. 271; p. 434.
Fastening means. A. Rindsberger. No. 1,358,988; Nov. 16; v. 280; p. 456.
Fastening means, Separable. J. F. McGregor. No. 1,360,425; Nov. 30; v. 280; p. 850.
Fastening or securing device. A. H. Jenkins. No. 1,346,655; July 13; v. 276; p. 324.
Fastenings, Machine for inserting. A. A. Aston. No. 1,346,157; July 13; v. 276; p. 225.
Fastenings, Machine for making. G. Goddu. No. 1,348,864; Aug. 10; v. 277; p. 194.
Fat from raw wool or analogous materials by the aid of fat-solvents, Removing. F. Koch. No. 1,358,163; Nov. 9; v. 280; p. 246.
Fat in cream, Method of and solution for ascertainment of the quantity of. H. M. Høyberg. No. 1,357,168; Oct. 26; v. 279; p. 673.
Fatty and oily matters from wet sludges, Extraction of. L. D. Jones. No. 1,328,047; Jan. 13; v. 270; p. 280.
Faucet. E. M. Dempsey. No. 1,336,026; Apr. 6; v. 273; p. 61.
Faucet. J. W. Johnson and A. J. Carpenter. No. 1,351,657; Aug. 31; v. 277; p. 922.
Faucet. M. J. Kickham. No. 1,363,125; Dec. 21; v. 281; p. 522.
Faucet. A. Landgrebe. No. 1,340,060; May 11; v. 274; p. 340.
Faucet. W. E. La Rue. No. 1,336,970; Apr. 13; v. 273; p. 300.
Faucet. W. E. La Rue. No. 1,351,524; Aug. 31; v. 277; p. 895.
Faucet. J. Lutolf. No. 1,330,379; Feb. 10; v. 271; p. 225.
Faucet. R. W. Maske. No. 1,345,615; July 6; v. 276; p. 56.
Faucet. N. G. Perry, C. E. Hulting, and C. X. Thompson. No. 1,333,506; Mar. 9; v. 272; p. 304.
Faucet. L. L. Rowe. No. 1,350,885; Aug. 24; v. 277; p. 706.
Faucet. E. Takala. No. 1,354,522; Oct. 5; v. 279; p. 15.
Faucet. F. Ziemer. No. 1,327,850; Jan. 13; v. 270; p. 243.
Faucet attachment. M. I. Schamberg. No. 1,341,200; June 1; v. 275; p. 75.
Faucet attachment, Bath-. F. A. Edwards. No. 1,360,381; Nov. 30; v. 280; p. 841.
Faucet, Combination-. J. T. Johnson. No. 1,336,236; Apr. 6; v. 273; p. 101.
Faucet control. J. W. Sharp, Jr. No. 1,345,648; July 6; v. 276; p. 61.
Faucet, Dispensing-. L. E. Baker. No. 1,348,839; Aug. 10; v. 277; p. 189.
Faucet, Dispensing-. F. B. Ellers. No. 1,348,854; Aug. 10; v. 277; p. 192.
Faucet, Dispensing-. S. H. Knight. No. 1,327,162; Jan. 6; v. 270; p. 53.
Faucet, Drinking-. E. E. Wangelin. No. 1,347,566; July 27; v. 276; p. 619.
Faucet, Electric. H. K. Clover. No. 1,345,748; July 6; v. 276; p. 82.
Faucet, Electric-heater. G. H. Hart. No. 1,357,287; Nov. 2; v. 280; p. 17.
Faucet, Filling-. P. Wirth. No. 1,338,662; Apr. 27; v. 273; p. 763.
Faucets, Filter or strainer attachment for. R. Frank. No. 1,361,976; Dec. 14; v. 281; p. 246.
Faucet for dispensing high-pressure liquids. C. L. and F. W. Holderle. No. 1,340,769; May 18; v. 274; p. 531.
Faucet, Measuring-. C. T. Joslin. No. 1,342,173; June 1; v. 275; p. 110.
Faucet, Mixing-. W. F. Knox. No. 1,345,934; July 6; v. 276; p. 120.
Faucet, Sanitary drinking-. A. G. Haws. No. 1,344,948; June 29; v. 275; p. 900.
Faucet, Self-closing. H. J. Geurink. No. 1,331,865; Feb. 24; v. 271; p. 593.
Faucet, Slow-closing. E. G. Watrous. No. 1,327,000; Jan. 6; v. 270; p. 23.
Faucet-supporting collar. S. Rosenfeld. No. 1,339,982; May 11; v. 274; p. 325.
Faucet-supporting means. M. C. Rosenfeld. No. 1,339,578; May 11; v. 274; p. 249.
Faucets, spigots, or the like with fluid-receivers, hose, or other conductors of fluids, Coupling for. A. Papini. No. 1,343,228; June 15; v. 275; p. 434.
Faucets, Sprinkling attachment for garden-. H. D. Moise. No. 1,338,242; Apr. 27; v. 273; p. 685.
Faults in tubular members, Correcting. E. W. Muller. No. 1,354,576; Oct. 5; v. 279; p. 25.
Feathering-wheel. A. L. Paulson and J. G. Porter. No. 1,363,615; Dec. 28; v. 281; p. 657.
Feed-bag attachment. B. M. Fireman. No. 1,359,681; Nov. 23; v. 280; p. 635.
Feed-box. R. R. Sickler. No. 1,344,094; June 22; v. 275; p. 668.
Feed-carrier receptacle. W. Louden. No. 1,356,212; Oct. 19; v. 279; p. 440.
Feed-changing mechanism. E. C. Head. No. 1,343,132; June 8; v. 275; p. 351.
Feed-controlling device. G. H. Gilman. No. 1,362,990; Dec. 21; v. 281; p. 495.
Feed-cutters, Feed-mixing attachment for. O. C. Frick. No. 1,355,137; Oct. 12; v. 279; p. 189.
Feed-cutters, Sharpener for. C. A. Holm. No. 1,339,511; May 11; v. 274; p. 236.
Feed device, Automatic. W. K. Edgar. No. 1,344,492; June 22; v. 275; p. 747.
Feed device, Liquid-. A. L. Ball. No. 1,339,734; May 11; v. 274; p. 279.
Feed for stock, Apparatus for preparing. P. McIntyre. No. 1,332,629; Mar. 2; v. 272; p. 87.
Feed-holder. F. W. Carpenter. No. 1,329,288; Jan. 27; v. 270; p. 579.
Feed mechanism. F. V. Hart. No. 1,352,746; Sept. 14; v. 278; p. 236.
Feed mechanism. F. V. Hart. No. 1,352,747; Sept. 14; v. 278; p. 236.
Feed mechanism. F. V. Hart. No. 1,352,748; Sept. 14; v. 278; p. 236.
Feed mechanism. G. W. Swift, Jr. No. 1,353,088; Sept. 14; v. 278; p. 303.
Feed mechanism having electrically-actuated devices. N. J. Olsson. No. 1,332,270; Mar. 2; v. 272; p. 18.
Feed memorandum device, Automatic. E. F. Creevy. No. 1,361,566; Dec. 7; v. 281; p. 119.
Feed-mill. G. E. W. Marsden. No. 1,362,724; Dec. 21; v. 281; p. 444.
Feed-mills, Sifter for. G. E. W. Marsden. No. 1,362,725; Dec. 21; v. 281; p. 444.
Feed-mixer. L. R. Veatch. No. 1,353,978; Sept. 28; v. 278; p. 583.
Feed-regulator. H. C. Draver. No. 1,357,854; Nov. 2; v. 280; p. 125.
Feed-regulator. P. Edtbauer. No. 1,330,179; Feb. 10; v. 271; p. 188.
Feed, Shredding and blending mechanism for. R. A. Stubbs. No. 1,344,832; June 29; v. 275; p. 878.
Feed-trough. F. C. Borton. No. 1,334,075; Mar. 16; v. 272; p. 472.
Feed-trough, Animal. J. Hector. No. 1,338,077; Apr. 27; v. 273; p. 654.
Feed-trough for pigs, &c. J. G. Shodron. No. 1,326,970; Jan. 27; v. 270; p. 520.
Feed-trough switch. R. A. Belmont. No. 1,355,121; Oct. 12; v. 279; p. 186.
Feed-water, Apparatus for treating. I. P. Winer. No. 1,348,196; Aug. 3; v. 277; p. 12.

Digitized by Google

Feed-water heater. K. Baumann. No. 1,342,841; June 8; v. 275; p. 294.
Feed-water heater. G. T. Foster. No. 1,331,845; Feb. 24; v. 271; p. 589.
Feed-water heater. C. A. Gilmore. No. 1,363,773; Dec. 28; v. 281; p. 688.
Feed-water heater. L. D. Lovekin. No. 1,350,320; Aug. 24; v. 277; p. 597.
Feed-water heater. J. E. Mourne. No. 1,356,729; Oct. 26; v. 279; p. 588.
Feed-water heater and exhaust-steam conserver. W. T. Harris. No. 1,337,556; Apr. 20; v. 273; p. 485.
Feed-water heater and purifier. T. T. Parker. No. 1,352,023; Sept. 7; v. 278; p. 61.
Feed-water-heating apparatus. T. C. McBride. No. 1,350,322; Aug. 24; v. 277; p. 597.
Feed-water injection, System of steam-boiler. G. I. Leonard and C. A. Parks. No. 1,335,170; Mar. 30; v. 272; p. 785.
Feed-water, Means for heating boiler. B. R. Shinner. No. 1,341,443; May 25; v. 274; p. 782.
Feed-water regulator. W. H. Berry. No. 1,340,365; May 18; v. 274; p. 455.
Feed-water regulator and alarm. J. H. Stanton. No. 1,354,702; Oct. 5; v. 279; p. 51.
Feed-water-regulator system. V. V. Veenschoten. No. 1,340,846; May 18; v. 274; p. 545.
Feeder. C. F. Schumacher. No. 1,336,820; Apr. 6; v. 273; p. 116.
Feeder. J. L. Stewart. No. 1,362,153; Dec. 14; v. 281; p. 281.
Feeder. P. J. Wilch. No. 1,357,755; Nov. 2; v. 280; p. 105.
Feeder, Animal-. C. F. Brown. No. 1,346,936; July 20; v. 276; p. 438.
Feeder, Animal-. O. W. Hiner and D. C. and E. A. Farnham, Jr. No. 1,346,024; July 6; v. 276; p. 137.
Feeder, Automatic animal-. O. W. Hiner and D. C. and E. A. Farnham, Jr. No. 1,346,027; July 6; v. 276; p. 138.
Feeder, Automatic fuel-. A. Zamernik. No. 1,335,265; Mar. 30; v. 272; p. 801.
Feeder, Automatic poultry-. E. H. Genuit. No. 1,359,691; Nov. 23; v. 280; p. 637.
Feeder, Automatic stock-. O. W. Hiner and D. C. and E. A. Farnham, Jr. No. 1,346,025; July 6; v. 276; p. 138.
Feeder, Automatic stock-. O. S. Wagner. No. 1,362,974; Dec. 21; v. 281; p. 492.
Feeder, Automatic-supply hog-. R. O. Dohm. No. 1,341,887; June 1; v. 275; p. 54.
Feeder, Chick-. F. R. Shoults. No. 1,343,093; June 8; v. 275; p. 344.
Feeder, Chick-. D. E. Speicher. No. 1,334,182; Mar. 16; v. 272; p. 491.
Feeder, Corn-sheller. L. Fisk. No. 1,329,703; Feb. 3; v. 271; p. 66.
Feeder, Disk-. F. D. Stowe. No. 1,342,189; June 1; v. 275; p. 113.
Feeder, Envelop-. F. J. Burkley. No. 1,329,108; Jan. 27; v. 270; p. 546.
Feeder, Green-pea-vine. F. P. Ryder. No. 1,331,278; Feb. 17; v. 271; p. 461.
Feeder, Hog-. M. Albaugh. No. 1,333,528; Mar. 9; v. 272; p. 307.
Feeder, Hog-. W. E. Cottrel. No. 1,358,525; Nov. 9; v. 280; p. 319.
Feeder, Hog-. R. O. Dohm. No. 1,359,158; Nov. 16; v. 280; p. 486.
Feeder, Hog-. C. D. Fink. No. 1,333,800; Mar. 16; v. 272; p. 420.
Feeder, Oil-. A. E. Nicholls. No. 1,346,840; July 20; v. 276; p. 419.
Feeder, Pneumatic sheet-. C. E. Christophel. No. 1,333,833; Mar. 16; v. 272; p. 426.
Feeder, Poultry-. F. B. Ashley. No. 1,340,869; May 25; v. 274; p. 621.
Feeder, Poultry-. Z. Choinere. No. 1,344,987; June 29; v. 275; p. 906.
Feeder, Poultry-. M. R. Jacobus. No. 1,359,808; Nov. 23; v. 280; p. 661.
Feeder protection, Parallel-. P. Ackerman. No. 1,333,892; Mar. 16; v. 272; p. 437.
Feeder, Pulverized-fuel. L. S. Schmidt. No. 1,342,135; June 1; v. 275; p. 103.
Feeder, Blank-. L. E. La Bombard. No. 1,352,284; Sept. 7; v. 278; p. 109.
Feeder, Extension-. H. H. Nightingale. No. 1,356,733; Oct. 26; v. 279; p. 588.
Feeder, Self-. A. C. Buth. No. 1,337,436; Apr. 20; v. 273; p. 462.
Feeder, Stock-. G. Picotte. No. 1,333,775; Mar. 16; v. 272; p. 415.
Feeder, Swine-. B. Winters. No. 1,333,787; Mar. 16; v. 272; p. 417.
Feeding and guiding cloth, Appliances for. R. M. Hunter. No. 1,339,826; May 11; v. 274; p. 296.
Feeding and pitching machine, Self. F. Hamilton. No. 1,351,381; Aug. 31; v. 277; p. 868.
Feeding and printing machine, Tag. F. Kohnle. No. 1,327,241; Jan. 6; v. 270; p. 68.
Feeding apparatus. A. L. Bausman. No. 1,337,584; Apr. 20; v. 273; p. 491.
Feeding apparatus, Fuel-. P. P. Gilles. No. 1,330,798; Feb. 17; v. 271; p. 371.
Feeding apparatus, Self-. F. R. Maguire. No. 1,333,208; Mar. 9; v. 272; p. 247.
Feeding apparatus, Self-. F. R. Maguire. No. 1,333,209; Mar. 9; v. 272; p. 248.
Feeding articles in stacked relation, Means for. F. V. Hart. No. 1,352,744; Sept. 14; v. 278; p. 236.
Feeding articles in stacked relation, Means for. F. V. Hart. No. 1,352,745; Sept. 14; v. 278; p. 236.
Feeding cylindrical blanks to bending devices, Machine for. E. R. Person. No. 1,330,450; Feb. 10; v. 271; p. 238.
Feeding device. J. Giesy. No. 1,361,045; Dec. 7; v. 281; p. 13.
Feeding device. F. B. Gilbert. No. 1,343,817; June 15; v. 275; p. 549.
Feeding device. O. H. Hansen. No. 1,339,060; May 4; v. 274; p. 77.
Feeding device, Animal-. E. S. Johnson. No. 1,339,763; May 11; v. 274; p. 284.
Feeding device, Animal-. J. R. Royer. No. 1,350,523; Aug. 24; v. 277; p. 638.
Feeding device, Animal-. M. V. Tracy. No. 1,332,088; Feb. 24; v. 271; p. 634.
Feeding device for poultry. W. B. Graham. No. 1,363,775; Dec. 28; v. 281; p. 688.
Feeding device, Poultry-. G. C. Eaton. No. 1,350,013; Aug. 17; v. 277; p. 491.
Feeding device, Stock-. H. C. M. Case and W. J. Carmichael. No. 1,346,878; July 20; v. 276; p. 427.
Feeding device, Stock-. H. E. and C. R. Hamilton. No. 1,352,513; Sept. 14; v. 278; p. 189.
Feeding machines, Stacking attachment for strip-. W. F. Marble. No. 1,331,273; Feb. 17; v. 271; p. 460.
Feeding material through rotating cylinders while subjected to roasting, mixing, or similar operations, Means for. A. Sonsthagen. No. 1,363,369; Dec. 28; v. 281; p. 609.
Feeding mechanism. P. Bammer. No. 1,336,771; Apr. 13; v. 273; p. 262.
Feeding mechanism. H. L. Barrett. No. 1,339,051; May 4; v. 274; p. 75.
Feeding mechanism. J. F. Gail. No. 1,336,622; Apr. 13; v. 273; p. 233.
Feeding mechanism, Article-. G. W. Wheelwright. No. 1,330,964; Feb. 17; v. 271; p. 404.
Feeding mechanism, Can-. A. M. Augensen. No. 1,326,903; Jan. 6; v. 270; p. 3.
Feeding mechanism, Can-end-. W. Cameron. No. 1,352,578; Sept. 14; v. 278; p. 202.
Feeding mechanism, Receptacle-. E. R. Loweree, G. F. Jackson, and R. A. Gleason. No. 1,330,596; Feb. 10; v. 271; p. 265.
Feeding mechanism, Staple-. E. A. Rudasill. No. 1,330,306; Feb. 10; v. 271; p. 228.
Feeding of poultry, Apparatus for intensive. C. F. Brown. No. 1,335,155; Mar. 30; v. 272; p. 782.
Feeding rack, Sheep-. O. M. York. No. 1,347,070; July 20; v. 276; p. 465.
Feeding-trough. W. S. Edelblute. No. 1,335,568; Mar. 30; v. 272; p. 858.
Feeding trough, Cattle-. J. Rudzinskas. No. 1,354,130; Sept. 28; v. 278; p. 615.
Feeding and watering trough, Adjustable. T. J. Stockton. No. 1,356,233; Oct. 19; v. 279; p. 444.
Feeding appliance, Poultry-. G. Kelley. No. 1,355,399; Oct. 12; v. 279; p. 241.
Feeding device. G. L. Castner, Jr. No. 1,354,802; Oct. 5; v. 279; p. 72.
Feeding-head. F. Mohn. No. 1,355,616; Oct. 12; v. 279; p. 282.
Feeding trough, Live-stock-. F. Krupicka. No. 1,356,636; Oct. 26; v. 279; p. 569.
Feeding device. E. W. Smith. No. 1,358,793; Nov. 16; v. 280; p. 417.
Feeding trough, Animal-. J. Walters. No. 1,358,484; Nov. 9; v. 280; p. 311.
Feeler with concave teeth. E. S. Stimpson. No. 1,329,828; Jan. 27; v. 270; p. 585.
Feet, Device for the prevention and treatment of deformed. D. J. Morton. No. 1,335,981; Apr. 6; v. 273; p. 58.
Felt and the like, Process and apparatus for making composite sheets of. R. P. Perry. No. 1,360,313; Nov. 30; v. 280; p. 828.
Felt, Apparatus for making composite sheets of. L. C. Roberts. No. 1,360,684; Nov. 30; v. 280; p. 901.
Felt, Producing. R. P. Perry. No. 1,352,687; Sept. 14; v. 278; p. 224.
Fence-gate. W. L. Butcher. No. 1,346,395; July 13; v. 276; p. 272.
Fence-machine. J. M. Denning. No. 1,340,530; May 18; v. 274; p. 486.
Fence-machine. J. H. Tausch. No. 1,351,810; Sept. 7; v. 278; p. 19.
Fence-machines, Measuring device for. A. C. Mills. No. 1,335,980; Apr. 6; v. 273; p. 53.
Fence, Metallic. P. C. James. No. 1,330,609; Feb. 17; v. 271; p. 373.
Fence, Miniature. E. W. Miller. No. 1,331,117; Feb. 17; v. 271; p. 432.

Digitized by Google

Fence-panel. J. Manelich; No. 1,342,453; June 8; v. 275; p. 217.
Fence, Portable. W. E. Davis. No. 1,341,264; May 25; v. 274; p. 697.
Fence strand, Picket-. J. B. Weeks. No. 1,348,765; Aug. 3; v. 277; p. 122.
Fence stay, Wire-. J. E. Eaton. No. 1,343,770; June 15; v. 275; p. 540.
Fence stretcher, Wire-. R. H. Patterson. No. 1,344,312; June 22; v. 275; p. 711.
Fence-wire-carrying rig. A. L. Scholimeyer. No. 1,329,860; Feb. 3; v. 271; p. 97.
Fence-wires, Fastening device for. O. J. Minnich. No. 1,351,959; Sept. 7; v. 278; p. 49.
Fencepost. C. B. Baumgartner. No. 1,343,543; June 15; v. 275; p. 495.
Fencepost. C. B. Baumgartner. No. 1,343,544; June 15; v. 275; p. 495.
Fencepost. G. B. Clarke. No. 1,338,423; Apr. 27; v. 273; p. 719.
Fencepost. C. Colvin. No. 1,360,501; Nov. 30; v. 280; p. 865.
Fencepost. L. Cornelius. No. 1,336,680; Apr. 13; v. 273; p. 245.
Fencepost. M. O. Dickerson. No. 1,355,754; Oct. 12; v. 279; p. 309.
Fencepost. F. J. Durkee. No. 1,333,842; Mar. 16; v. 272; p. 427.
Fencepost. W. S. Gresham. No. 1,339,819; May 11; v. 274; p. 295.
Fencepost. P. J. Hindmarsh. No. 1,359,891; Nov. 23; v. 280; p. 677.
Fencepost. H. H. Howell. No. 1,359,704; Nov. 23; v. 280; p. 640.
Fencepost. M. Lachman. No. 1,328,926; Jan. 27; v. 270; p. 512.
Fencepost. G. L. Larimore. No 1,352,203; Sept. 7; v. 278; p. 94.
Fencepost. J. McCarthy. No. 1,332,734; Mar. 2; v. 272; p. 107.
Fencepost. A. P. Ness and M. Siverson. No. 1,361,345; Dec. 7; v. 281; p. 73.
Fencepost. A. W. Piggee. No. 1,333,728; Mar. 16; v. 272; p. 406.
Fencepost. I. A. Reynolds. No. 1,334,053; Mar. 16; v. 272; p. 468.
Fencepost. S. D. Sanders. No. 1,334,558; Mar. 23; v. 272; p. 609.
Fencepost. C. Schivins. No. 1,353,073; Sept. 14; v. 278; p. 301.
Fencepost. G. B. Stout. No. 1,335,302; Mar. 30; v. 272; p. 809.
Fencepost-clamp. P. C. James. No. 1,330,808; Feb. 17; v. 271; p. 878.
Fencepost, Metal. I. E. Clum. No. 1,356,070; Oct. 26; v. 279; p. 635.
Fencepost, Metal. E. Fischer. No. 1,331,335; Feb. 17; v. 271; p. 471.
Fencepost, Metal. E. S. Lachmann. No. 1,349,575; Aug. 17; v. 277; p. 407.
Fencepost, Metal. E. S. Lachmann. No. 1,357,572; Nov. 2; v. 280; p. 70.
Fencepost, Metallic. B. Anderson. No. 1,330,157; Feb. 10; v. 271; p. 184.
Fencepost, Metallic. H. Babcock. No. 1,329,492; Feb. 3; v. 271; p. 28.
Fencepost, Metallic. C. Klein. No. 1,351,912; Sept. 7; v. 278; p. 46.
Fenceposts, Anchor-plate for. B. Anderson. No. 1,360,350; Nov. 30; v. 280; p. 835.
Fenceposts, Wire attachment for. A. M. Lane. No. 1,356,991; Oct. 26; v. 279; p. 256.
Fencing-machine. F. A. Ahlstrom. No. 1,353,804; Sept. 21; v. 278; p. 405.
Fender: *See*—
Automobile-fender. Safety-fender.
Car-fender. Ship-fender.
Cultivator-fender. Traction-wheel fender.
Farrowing-pen fender. Vehicle-fender.
Fender. E. Burch. No. 1,336,277; Apr. 6; v. 273; p. 108.
Fender. F. M. McDonald. No. 1,342,402; June 1; v. 275; p. 153.
Fender. S. P. Taylor. No. 1,339,586; May 11; v. 274; p. 250.
Fender. M. Wilkenfeld. No. 1,333,522; Mar. 9; v. 272; p. 307.
Fender-attaching means. C. W. Motts and H. H. Lewis. No. 1,334,312; Mar. 23; v. 272; p. 562.
Fender, Automobile-. G. W. Singer. No. 1,346,345; July 13; v. 276; p. 263.
Fender for ground-treating implements. J. B. Lytle. No. 1,359,404; Nov. 16; v. 280; p. 535.
Fender, Traction-wheel. R. B. Otwell. No. 1,363,669; Dec. 28; v. 281; p. 667.
Ferricyanids, Producing alkali-metal. R. Williams. No. 1,328,938; Jan. 27; v. 270; p. 514.
Ferrochrome, Production of low-carbon. H. C. Sicard. No. 1,341,939; June 1; v. 275; p. 64.
Ferrochromium, Manufacture of. W. L. Turner. No. 1,346,728; July 13; v. 276; p. 338.
Ferrochromium, Production of. J. E. Johnson, Jr. No. 1,354,491; Oct. 5; v. 279; p. 9.
Ferroconcrete construction. W. Melschke-Smith. No. 1,349,901; Aug. 17; v. 277; p. 470.
Ferromanganese, Production of. J. E. Johnson, Jr. No. 1,354,490; Oct. 5; v. 279; p. 9.
Ferrule. M. E. Kanter. No. 1,354,659; Oct. 5; v. 279; p. 43.
Ferrule, Union-. A. W. Bachmann. No. 1,352,342; Sept. 7; v. 278; p. 120.
Ferrules, Method of and apparatus for making. W. M. Brown. No. 1,330,782; Feb. 17; v. 271; p. 368.
Fertilizer. L. T. Buck. No. 1,330,369; Feb. 10; v. 271; p. 223.
Fertilizer. J. R. Partington and L. H. Parker. No. 1,348,578; Aug. 3; v. 277; p. 87.
Fertilizer and making same. J. N. Carothers. No. 1,350,591; Aug. 24; v. 277; p. 652.
Fertilizer and making same. P. C. Hoffmann. No. 1,360,401; Nov. 30; v. 280; p. 845.
Fertilizer and making same. P. C. Hoffmann. No. 1,360,402; Nov. 30; v. 280; p. 845.
Fertilizer and manufacture of same. M. Fjellanger. No. 1,340,708; May 18; v. 274; p. 520.
Fertilizer and manufacturing same, Phosphatic. C. C. James. No. 1,348,495; Aug. 3; v. 277; p. 71.
Fertilizer-distributer. G. W. Browning. No. 1,339,256; May 4; v. 274; p. 112.
Fertilizer-distributer. C. R. Davis. No. 1,327,654; Jan. 13; v. 270; p. 206.
Fertilizer-distributer. L. F. Harris. No. 1,329,597; Feb. 3; v. 271; p. 48.
Fertilizer-distributer. S. C. Hartsock. No. 1,354,645; Oct. 5; v. 279; p. 40.
Fertilizer-distributer. B. Hicks. No. 1,332,125; Feb. 24; v. 271; p. 614.
Fertilizer-distributer. W. A. Hendrickson. No. 1,346,650; July 13; v. 276; p. 323.
Fertilizer-distributer. D. R. Holden. (Reissue.) No. 14,804; Feb. 10; v. 271; p. 299.
Fertilizer-distributer. B. T. Nobles. No. 1,345,390; July 6; v. 276; p. 13.
Fertilizer-distributer. A. H. Pence and T. J. Morrow. No. 1,327,353; Jan. 6; v. 270; p. 88.
Fertilizer-distributer. E. G. Perry. No. 1,342,296; June 1; v. 275; p. 134.
Fertilizer-distributer. C. H. Travis. No. 1,340,806; May 18; v. 274; p. 538.
Fertilizer from city and like waste, Making. C. W. Rice. No. 1,348,320; Aug. 3; v. 277; p. 38.
Fertilizer from potash-bearing minerals and lime, Producing lime-potash. R. De Luce. No. 1,345,077; June 29; v. 275; p. 924.
Fertilizer, Machine for spreading. W. J. Cook. No. 1,328,618; Jan. 20; v. 270; p. 424.
Fertilizer material, Process and product of making. P. M. Shuey. No. 1,341,598; May 25; v. 274; p. 762.
Fertilizer-mixer. J. W. Moore. No. 1,354,326; Sept. 28; v. 278; p. 654.
Fertilizers, Manufacture of. A. C. Bohre. No. 1,354,719; Oct. 5; v. 279; p. 55.
Fiber, Apparatus for separating. S. V. L. Lippitt. No. 1,327,484; Jan. 6; v. 270; p. 112.
Fiber-cleaning device. R. Quijano. No. 1,336,046; Apr. 6; v. 273; p. 65.
Fiber-cleaning machine. L. H. Tolhurst. No. 1,331,170; Feb. 17; v. 271; p. 442.
Fiber-cleaning machine. E. O. Worrick. No. 1,335,264; Mar. 30; v. 272; p. 801.
Fiber-dressing machine. F. Graf, Sr. No. 1,351,749; Sept. 7; v. 278; p. 7.
Fiber from palms, Machine for extracting. H. H. Holdaway. No. 1,342,714; June 8; v. 275; p. 268.
Fiber from yucca, Machine for extracting. H. H. Holdaway. No. 1,339,825; May 11; v. 274; p. 296.
Fiber-mixing machine. J. A. Butler. No. 1,359,029; Nov. 16; v. 280; p. 463.
Fiber plaster-board and making same. C. G. Muench. No. 1,337,254; Apr. 20; v. 273; p. 428.
Fiber-rolling machine. L. H. Tolhurst. No. 1,333,280; Mar. 9; v. 272; p. 252.
Fiber, Treating fibrous plants for the recovery of. W. Loehr. No. 1,330,127; Feb. 10; v. 271; p. 178.
Fiber-treating machine. H. M. Dudley. No. 1,327,668; Jan. 13; v. 270; p. 208.
Fiber-treating machine. H. M. Dudley. No. 1,328,987; Jan. 27; v. 270; p. 523.
Fiber-treating machine. H. M. Dudley. No. 1,335,097; Mar. 30; v. 272; p. 771.
Fiber-treating machine. H. M. Dudley. No. 1,344,122; June 22; v. 275; p. 673.
Fibers from fibrous materials, Process and apparatus for separating and extracting the. F. H. Powers. No. 1,359,101; Nov. 16; v. 280; p. 476.
Fibers, Making. A. R. Fuller. No. 1,357,206; Oct. 26; v. 279; p. 680.
Fibers, Production of black upon textile. E. A. Fourneaux. (Reissue.) No. 14,824; Mar. 23; v. 272; p. 684.
Fibers, silk fibers, or mixtures of same. Production of black upon vegetable textile. E. A. Fourneaux. No. 1,329,117; Jan. 27; v. 270; p. 548.

Digitized by Google

Fibers, Treating. J. H. Pickup. No. 1,350,621; Aug. 24; v. 277; p. 657.
Fibers, Treating. H. R. Moody and L. H. Friedburg. No. 1,357,580; Nov. 2; v. 280; p. 71.
Fibrous board and producing same, Reinforced. T. B. Munroe. No. 1,335,910; Apr. 6; v. 273; p. 39.
Fibrous material and particularly guncotton, Manufacturing. F. A. Wardenburg. No. 1,355,197; Oct. 12; v. 279; p. 201.
Fibrous material and products obtained thereby, Treating. A. E. Jury. No. 1,356,920; Oct. 26; v. 279; p. 625.
Fibrous material, Coloring. C. H. Dennison. No. 1,332,974; Mar. 9; v. 272; p. 204.
Fibrous material, Coloring. W. A. Gibbons. No. 1,332,982; Mar. 9; v. 272; p. 206.
Fibrous material, Composition for treating. W. D. Pardoe. No. 1,354,996; Oct. 5; v. 279; p. 109.
Fibrous material, Production of textile. M. Hofsté. No. 1,345,776; July 6; v. 276; p. 88.
Fibrous materials, Impregnating. J. F. Palmer. No. 1,328,541; Jan. 20; v. 270; p. 410.
Fibrous materials, Waterproofing composition for. H. L. Buckner and E. Burke. No. 1,349,601; Aug. 17; v. 277; p. 412.
Fibrous products. H. F. Weiss. No. 1,349,112; Aug. 10; v. 277; p. 242.
Fibrous stock, Machine for breaking, softening, and scutching. P. E. G. Swynghedauw. No. 1,341,603; May 25; v. 274; p. 763.
Fibrous substances, Retting. E. L. Rinman. No. 1,344,719; June 29; v. 275; p. 856.
Fibrous vegetable material and resulting product, Treating. G. S. McDaniel. No. 1,350,031; Aug. 17; v. 277; p. 495.
Field-coil-testing device. J. F. Cullin. No. 1,346,592; July 13; v. 276; p. 311.
Field-magnet frame. C. G. Koppitz. No. 1,327,619; Jan. 13; v. 270; p. 199.
Fifth-wheel. E. F. Hartwick. No. 1,351,245; Aug. 31; v. 277; p. 840.
Fifth-wheel, Duplex rocking. G. A. Norton. No. 1,334,113; Mar. 16; v. 272; p. 479.
Figure, Jointed. D. S. Williams. No. 1,345,052; June 29; v. 275; p. 919.
Filament-forming device. O. Ohlson. No. 1,337,258; Apr. 20; v. 273; p. 429.
Filament, Shaped. D. K. Wright. No. 1,339,998; May 11; v. 274; p. 328.
Filament-supports for incandescent lamps, Machine for making. C. Eisler. No. 1,338,499; Apr. 27; v. 273; p. 733.
Filament winding machine. C. Eisler. No. 1,338,498; Apr. 27; v. 273; p. 733.
File. C. O. Schneider. No. 1,345,890; July 6; v. 276; p. 111.
File, Account-. W. Barr. No. 1,361,665; Dec. 7; v. 281; p. 138.
File-box. H. C. Fosberg. No. 1,340,034; May 11; v. 274; p. 335.
File-box and follower. H. C. Fosberg. No. 1,340,035; May 11; v. 274; p. 335.
File-clip. E. J. Hansen. No. 1,329,661; Feb. 3; v. 271; p. 59.
File, Desk-drawer. F. L. G. Straubel. No. 1,350,186; Aug. 17; v. 277; p. 525.
File, Flexible. G. F. Vorhauer. No. 1,335,866; Apr. 6; v. 273; p. 30.
File-folders, Clip and support for vertical. J. L. Rivers. No. 1,351,127; Aug. 31; v. 277; p. 816.
File-handle. J. E. Lovell. No. 1,339,658; May 11; v. 274; p. 264.
File, Index, &c. J. H. Rand, Jr. No. 1,358,468; Nov. 9; v. 280; p. 307.
File letter-file or document-holder, Rapid-. W. Kirchner. No. 1,330,270; Feb. 10; v. 271; p. 204.
File, Loose-sheet. N. F. Hutchison. No. 1,345,865; July 6; v. 276; p. 8.
File, Loose-leaf. C. F. McBee. No. 1,362,951; Dec. 21; v. 281; p. 487.
File, Loose-leaf. G. E. Strauss. No. 1,333,350; Mar. 9; v. 272; p. 275.
File or brush holder. E. Anheuser. No. 1,345,472; July 6; v. 276; p. 29.
File-protector. J. Woslewski. No. 1,349,596; Aug. 17; v. 277; p. 411.
Files, binders, &c., Puncturing device for. E. K. Bottle. No. 1,336,998; Apr. 13; v. 273; p. 305.
Filing and indexing equipment. E. E. Fowler. No. 1,352,506; Sept. 14; v. 278; p. 188.
Filing and indexing equipment. E. E. Fowler. No. 1,352,507; Sept. 14; v. 278; p. 188.
Filing-case. J. C. Parker. No. 1,329,139; Jan. 27; v. 270; p. 551.
Filing case, Map-. H. J. Adams. No. 1,335,415; Mar. 30; v. 272; p. 830.
Filing-case, Metal. F. A. Sandmann. No. 1,340,562; May 18; v. 274; p. 492.
Filing device. W. S. Proudfit. No. 1,347,658; July 27; v. 276; p. 637.
Filing device. J. H. Rand. No. 1,362,960; Dec. 21; v. 281; p. 489.
Filing device. S. E. Trout. No. 1,328,604; Jan. 20; v. 270; p. 422.
Filing device. C. B. Ulrich. No. 1,333,231; Mar. 9; v. 272; p. 252.
Filing-gage. G. S. Swygert. No. 1,353,089; Sept. 14; v. 278; p. 304.
Filing-machines and similar devices, Jointed arm for. J. Korinek. No. 1,361,074; Dec. 7; v. 281; p. 19.
Filing-receptacle. L. J. Hogg. No. 1,347,272; July 20; v. 276; p. 505.
Filing system. F. L. MacDonagh. No. 1,329,536; Feb. 3; v. 271; p. 36.
Filing system, Safety. W. A. Ringler. No. 1,332,954; Mar. 9; v. 272; p. 201.
Filler. W. H. Alton and A. C. Battelle. No. 1,350,694; Aug. 24; v. 277; p. 671.
Filler and polish composition. M. J. Walsh. No. 1,362,907; Dec. 21; v. 281; p. 480.
Filler-cap for receptacles. C. F. Burroughs. No. 1,346,877; July 20; v. 276; p. 426.
Filler composition. A. F. French. No. 1,352,741; Sept. 14; v. 278; p. 235.
Filler-cover. W. Voina-Hansen. No. 1,354,787; Oct. 5; v. 279; p. 68.
Filling and capping machine. N. M. La Porte. No. 1,332,264; Mar. 2; v. 272; p. 17.
Filling and measuring machine, Receptacle-. E. J. Falkiner. No. 1,333,299; Mar. 9; v. 272; p. 264.
Filling composition. W. A. Bruno. No. 1,341,540; May 25; v. 274; p. 751.
Filling-detector mechanism. C. H. Draper and J. Northrop. No. 1,342,710; June 8; v. 275; p. 267.
Filling device. F. A. Sebring, and F. Strobl. No. 1,350,673; Aug. 24; v. 277; p. 666.
Filling-machine. G. Weiss. No. 1,354,635; Oct. 15; v. 279; p. 38.
Filling machine, Hand-pack-. C. S. Bucklin. No. 1,335,819; Apr. 6; v. 273; p. 22.
Film-advancing apparatus, Sprocket-cleaner for. W. Wenderhold. No. 1,334,337; Mar. 23; v. 272; p. 567.
Film-cabinets, Fire-extinguishing device for. E. W. Salmon, Jr. No. 1,345,509; July 6; v. 276; p. 33.
Film-cartridge. A. W. McCurdy. No. 1,347,109; July 20; v. 276; p. 472.
Film-clip. J. G. Hartlieb. No. 1,335,579; Mar. 30; v. 272; p. 860.
Film-developing apparatus, Roll-. G. C. Beidler. No. 1,352,109; Sept. 7; v. 278; p. 76.
Film-developing device. W. A. and J. Hammond. No. 1,347,032; July 20; v. 276; p. 457.
Film-developing-machine. J. M. Hoff. No. 1,363,117; Dec. 21; v. 281; p. 520.
Film-developing rack, Roll-. C. W. Smith and H. S. Kidwell. No. 1,361,102; Dec. 7; v. 281; p. 42.
Film-developing tank. G. Winston. No. 1,350,761; Aug. 24; v. 277; p. 684.
Film-guide. W. Wenderhold. No. 1,334,338; Mar. 23; v. 272; p. 567.
Film-holder. C. L. Bambrick. No. 1,353,705; Sept. 21; v. 278; p. 486.
Film-holder. H. Blum. No. 1,329,749; Feb. 3; v. 271; p. 75.
Film-holder. N. E. Luboshez. No. 1,363,184; Dec. 21; v. 281; p. 533.
Film-holder. W. H. O'Brien and D. Siakel. No. 1,337,614; Apr. 20; v. 273; p. 496.
Film-holder. H. H. Pierce. No. 1,336,877; Apr. 6; v. 273; p. 127.
Film-magazine. J. E. Leonard. No. 1,336,640; Apr. 13; v. 273; p. 236.
Film mending and inspecting table. J. H. Genter. No. 1,331,563; Feb. 24; v. 271; p. 535.
Film-moving mechanism. J. E. Leonard. No. 1,336,639; Apr. 13; v. 273; p. 236.
Film-pack. L. E. Snyder. No. 1,343,590; June 15; v. 275; p. 504.
Film-polishing machine. M. Handschiegl. No. 1,334,655; Mar. 23; v. 272; p. 626.
Film-reel. C. F. Jenkins. No. 1,343,628; June 15; v. 275; p. 511.
Film-reel. W. Wenderhold. No. 1,360,838; Nov. 30; v. 280; p. 931.
Film-reel. J. Wilhelm and C. A. Kays. No. 1,353,004; Sept. 14; v. 278; p. 287.
Film-reel, Fireproof. W. Rice. No. 1,339,366; May 4; v. 274; p. 132.
Film-reels, Shipping container or case for shipping. E. F. Hollinger and C. L. Gulick. No. 1,359,458; Nov. 16; v. 280; p. 546.
Film-retouching holder. D. E. Stiles. No. 1,352,037; Sept. 7; v. 278; p. 63.
Film-rewinding machine. S. S. Holt. No. 1,361,860; Dec. 14; v. 281; p. 223.
Film-splicer. F. C. Griswold. No. 1,356,761; Oct. 26; v. 279; p. 594.
Film-splicing apparatus, Safety and automatic adjustment device for. A. S. Howell. No. 1,334,906; Mar. 23; v. 272; p. 675.
Film-threader, Automatic. W. Wenderhold. No. 1,361,123; Dec. 7; v. 281; p. 28.

Digitized by Google

Alphabetical list of inventions—Continued.

Film-treating apparatus. F. B. Thompson. No. 1,328,464; Jan. 20; v. 270; p. 395.
Film-washing. L. J. San. No. 1,362,146; Dec. 14; v. 281: p. 280.
Film-winding mechanism. D. E. Gray. No. 1,327,034; Jan. 6; v. 270; p. 29.
Films, Apparatus for drying coated. C. Rosier. No. 1,336,050; Apr. 6; v. 273; p. 65.
Films, Apparatus for the manufacture of filtering-. C. H. Van Nostrand and H. E. Schulse. No. 1,355,292; Oct. 12; v. 279; p. 292.
Films for cinematography, Apparatus for making multi-color. A. Hamburger and W. E. L. Day. No. 1,332,828; Mar. 2; v. 272; p. 125.
Films, Mechanism for feeding. W. Parkes. No. 1,352,144; Sept. 7; v. 278; p. 83.
Films, Method and apparatus for treating. J. Mason. No. 1,348,029; July 27; v. 276; p. 712.
Films, Methods of and device for developing. G. C. Beidler. No. 1,346,780; July 13; v. 276; p. 349.
Films, Obtaining products from. W. C. Pierson. No. 1,352,216; Sept. 7; v. 278; p. 96.
Filter. E. F. Atkins. No. 1,342,839; June 8; v. 275; p. 294.
Filter. F. K. and E. F. Atkins. No. 1,350,433; Aug. 24; v. 277; p. 620.
Filter. M. G. Burris. No. 1,331,237; Feb. 17; v. 271; p. 454.
Filter. W. A. Daniel. No. 1,357,618; Nov. 2; v. 280; p. 79.
Filter. P. C. Forrester. No. 1,349,056; Aug. 10; v. 277; p. 231.
Filter. H. J. Frey. No. 1,329,462; Feb. 3; v. 271; p. 28.
Filter. A. C. Gorton and G. R. Carr. No. 1,337,066; Apr. 13; v. 273; p. 319.
Filter. H. A. Hills. No. 1,352,961; Sept. 14; v. 278; p. 279.
Filter. W. G. Lindemann. No. 1,362,998; Dec. 21; v. 281; p. 497.
Filter. W. D. Mount. No. 1,348,036; July 27; v. 276; p. 713.
Filter. J. P. Probst. No. 1,361,493; Dec. 7; v. 281; p. 104.
Filter. H. A. Stock. No. 1,358,595; Nov. 9; v. 280; p. 332.
Filter. E. J. Sweetland. No. 1,343,182; June 8; v. 275; p. 361.
Filter. E. J. Sweetland. No. 1,344,215; June 22; v. 275; p. 691.
Filter. E. J. Sweetland. No. 1,349,238; Aug. 10; v. 277; p. 268.
Filter. L. Wachenberg. No. 1,337,170; Apr. 13; v. 273; p. 338.
Filter. J. F. Wait. No. 1,331,732; Feb. 24; v. 271; p. 567.
Filter. E. Zahm. No. 1,328,221; Jan. 13; v. 270; p. 813.
Filter, Air-. L. L. Dollinger. No. 1,359,879; Nov. 23; v. 280; p. 674.
Filter, Air-. H. P. Milker. No. 1,337,020; Apr. 13; v. 273; p. 309.
Filter and silt-conserving pipe, Water-. J. W. Brenkert. No. 1,355,073; Oct. 5; v. 279; p. 124.
Filter apparatus, Unitary multistage. H. A. Hills. No. 1,328,046; Jan. 13; v. 270; p. 279.
Filter, Bag-. E. W. Deming. No. 1,334,692; Mar. 23; v. 272; p. 633.
Filter-casing. E. J. Sweetland and C. M. Stanley. No. 1,337,733; Apr. 20; v. 273; p. 519.
Filter, Cistern-. R. H. Cummings. No. 1,337,595; Apr. 20; v. 273; p. 493.
Filter, cleaner, or washer, Air. J. Rudloff. No. 1,358,333; Nov. 9; v. 280; p. 280.
Filter, Coffee-. O. G. Diefendorf. No. 1,335,048; Mar. 30; v. 272; p. 761.
Filter, Continuous electrical mechanical. A. F. Meston. No. 1,334,160; Mar. 16; v. 272; p. 488.
Filter, Faucet-. J. M. Forest, Jr. No. 1,337,061; Apr. 13; v. 273; p. 318.
Filter, Fluid-. W. R. Kahlenberg. No. 1,335,899; Apr. 6; v. 273; p. 37.
Filter for oil and other lubricants. G. C. Schmidt. No. 1,360,149; Nov. 23; v. 280; p. 728.
Filter, Gasolene-. O. E. Bell. No. 1,335,087; Mar. 30; v. 272; p. 769.
Filter, Gasolene-. A. J. Fuson. No. 1,361,243; Dec. 7; v. 281; p. 52.
Filter, Hydrocarbon-. H. A. Hills. No. 1,328,044; Jan. 13; v. 270; p. 279.
Filter, Individual. P. E. Crady. No. 1,333,011; Mar. 9; v. 272; p. 211.
Filter, Light-. B. Irwin. No. 1,351,756; Sept. 7; v. 278; p. 8.
Filter, Oil-. J. H. Packer. No. 1,346,244; July 13; v. 276; p. 242.
Filter, Portable. J. H. F. Eversz. No. 1,335,282; Mar. 30; v. 272; p. 805.
Filter-press. A. L. Bausman. No. 1,331,453; Feb. 17; v. 271; p. 494.
Filter-press. J. Miller. No. 1,331,350; Feb. 17; v. 271; p. 475.
Filter-press. H. T. Shriver. No. 1,342,829; June 8; v. 275; p. 292.
Filter-press device. G. F. Miller. No. 1,330,332; Feb. 10; v. 271; p. 215.
Filter-press device. G. F. Miller. No. 1,333,869; Mar. 16; v. 272; p. 433.
Filter-press frame. G. F. Miller. No. 1,337,251; Apr. 20; v. 273; p. 428.
Filter-press plate. G. F. Miller. No. 1,330,331; Feb. 10; v. 271; p. 215.
Filter, Rotating-screen. C. L. Peck. No. 1,338,999; May 4; v. 274; p. 64.
Filter, Water-. A. L. Gammage. No. 1,358,840; Nov. 16; v. 280; p. 426.
Filter, Water-. W. Maple. No. 1,362,125; Dec. 14; v. 281; p. 276.
Filter, Water-. L. J. Stern. No. 1,339,045; May 4; v. 274; p. 74.
Filter, water-cooler, humidifying apparatus and the like, Wet. A. B. Cleworth. No. 1,345,131; June 29; v. 275; p. 934.
Filtering agents, Revivification of. C. F. Kennedy. No. 1,356,631; Oct. 26; v. 279; p. 568.
Filtering apparatus. J. M. Izquierdo. No. 1,337,517; Apr. 20; v. 273; p. 478.
Filtering apparatus. M. H. Kuryla. No. 1,345,861; July 6; v. 276; p. 104.
Filtering apparatus, Multistage adjustable. H. A. Hills. No. 1,328,045; Jan. 13; v. 270; p. 279.
Filtering compound. L. W. Shull. No. 1,336,591; Apr. 13; v. 273; p. 227.
Filtering device. J. Auberschek. No. 1,330,420; Feb. 10; v. 271; p. 232.
Filtering-machine. H. W. Tuttle. No. 1,336,600; Apr. 13; v. 273; p. 229.
Filtering materials. J. J. Berrigan. No. 1,350,292; Aug. 24; v. 277; p. 591.
Filtering, Method of and apparatus for. N. B. Down. No. Aug. 3; v. 277; p. 5.
Filtration, Method of and apparatus for. O. J. Salisbury. No. 1,336,444; Apr. 13; v. 273; p. 199.
Finder-starting system. C. L. Goodrum. No. 1,330,464; Feb. 10; v. 271; p. 241.
Fine-fuel burner. W. D. Wood. No. 1,361,129; Dec. 7; v. 281; p. 30.
Finger-board attachment. T. J. Hewitt. No. 1,351,570; Aug. 31; v. 277; p. 905.
Finger-guard. W. R. Rasmussen. No. 1,337,957; Apr. 20; v. 273; p. 562.
Finger-print impressions, Apparatus for taking and preserving. P. Ryan. No. 1,361,100; Dec. 7; v. 281; p. 24.
Finger-protector. L. J. McCarthy. No. 1,359,717; Nov. 23; v. 280; p. 642.
Finger-ring. S. Bacharach. No. 1,327,606; Jan. 13; v. 270; p. 197.
Finger-ring. P. J. Schreiber. No. 1,333,284; Mar. 9; v. 272; p. 262.
Finger-ring. A. Schwartzman. No. 1,326,977; Jan. 6; v. 270; p. 19.
Finger-ring and making same. B. Altschul. No. 1,330,617; Feb. 10; v. 271; p. 269.
Finger-ring and photo-mounts for the same. N. K. Hunt. No. 1,362,995; Dec. 21; v. 281; p. 496.
Finger-ring guard. H. Levin. No. 1,341,218; May 25; v. 274; p. 689.
Finger-ring, Portrait. J. Herbert. No. 1,334,859; Mar. 23; v. 272; p. 666.
Finished surface for articles of manufacture. J. R. McClain. No. 1,343,216; June 15; v. 275; p. 432.
Finishing device. E. B. Limle. No. 1,351,177; Aug. 31; v. 277; p. 826.
Finishing-machine. J. F. Standish. No. 1,343,379; June 15; v. 275; p. 463.
Finishing-machine receptacle. J. F. Standish. No. 1,353,860; Sept. 28; v. 278; p. 560.
Fire-alarm. J. T. Delaney. No. 1,356,909; Oct. 26; v. 279; p. 623.
Fire-alarm apparatus. J. Wilson. No. 1,356,104; Oct. 19; v. 279; p. 418.
Fire-alarm, Automatic. S. O. Abrahamsen. No. 1,344,471; June 22; v. 275; p. 742.
Fire-alarm, Automatic. W. J. Luse. No. 1,344,701; June 29; v. 275; p. 852.
Fire-alarm, Automatic. G. B. Rattermann and W. W. Garrison. No. 1,349,531; Aug. 10; v. 277; p. 325.
Fire-alarm-signaling device. W. J. Roy and J. B. Danel. No. 1,337,161; Apr. 13; v. 273; p. 336.
Fire-alarm switch. G. F. Miller. No. 1,340,729; May 18; v. 274; p. 523.
Fire-alarm system. M. Garl. No. 1,363,246; Dec. 28; v. 281; p. 586.
Fire-alarm system. S. B. Hess. No. 1,351,514; Aug. 31; v. 277; p. 893.
Fire-alarm system. S. B. Hess. (Reissue.) No. 15,005; Dec. 14; v. 281; p. 366.
Fire-alarm whistles, Electromechanical valve mechanism for timing and controlling blasts on. F. W. Cole. No. 1,353,317; Sept. 21; v. 278; p. 408.
Fire-basket. B. M. Ward and H. G. Smith. No. 1,336,766; Apr. 13; v. 273; p. 261.
Fire-box doors, Air-deflector for. R. D. Baldwin. No. 1,330,972; Feb. 17; v. 271; p. 406.

Digitized by Google

Fire-bucket. W. R. Myers. No. 1,344,557; June 22; v. 275; p. 759.
Fire-curtains, Means for retarding the descent of. W. M. Brunst. No. 1,332,942; Mar. 9; v. 272; p. 198.
Fire-door. A. Dueweke. No. 1,382,111; Feb. 24; v. 271; p. 639.
Fire-door. M. Gilmore. No. 1,363,774; Dec. 28; v. 281; p. 688.
Fire-door-closing apparatus. L. S. Akers. No. 1,343,757; June 15; v. 275; p. 537.
Fire-door lock. E. L. Teich. No. 1,346,143; July 13; v. 276; p. 223.
Fire-door-operating device. F. B. Searle. No. 1,336,054; Apr. 6; v. 273; p. 66.
Fire-door-operating mechanism. A. W. Gillespie. No. 1,354,183; Sept. 28; v. 278; p. 625.
Fire, Electric. H. H. Berry. No. 1,354,504; Oct. 5; v. 279; p. 29.
Fire, Electric. H. H. Berry and J. W. Reid. No. 1,349,804; Aug. 17; v. 277; p. 451.
Fire-engine. P. E. Smith. No. 1,351,700; Aug. 31; v. 277; p. 930.
Fire-engine, Motor. A. B. House. No. 1,357,982; Nov. 9; v. 280; p. 210.
Fire-engine, Motor. A. B. House. No. 1,362,102; Dec. 14; v. 281; p. 271.
Fire-escape. K. Atamian. No. 1,333,530; Mar. 9; v. 272; p. 308.
Fire-escape. F. G. Barrington. No. 1,351,734; Sept. 7; v. 278; p. 4.
Fire-escape. E. C. Dalke. No. 1,357,962; Nov. 9; v. 280; p. 206.
Fire-escape. H. M. Davis. No. 1,350,708; Aug. 24; v. 277; p. 674.
Fire-escape. J. M. Kryl. No. 1,346,787; July 13; v. 276; p. 351.
Fire-escape. E. W. Leonard. No. 1,358,564; Nov. 9; v. 280; p. 327.
Fire-escape. A. Nikander. No. 1,341,242; May 25; v. 274; p. 693.
Fire-escape. C. H. Pray. No. 1,343,642; June 15; v. 275; p. 514.
Fire-escape. J. Weinberg. No. 1,332,011; Feb. 24; v. 271; p. 620.
Fire-escape. J. F. Zetka and J. Séfčik. No. 1,357,668; Nov. 2; v. 280; p. 88.
Fire-escape, Folding bracket. W. E. Turner. No. 1,360,831; Nov. 30; v. 280; p. 930.
Fire-escape or life-saving tower. G. Gulich. No. 1,348,872; Aug. 10; v. 277; p. 195.
Fire-escape, Portable. G. A. Blake. No. 1,340,146; May 18; v. 274; p. 414.
Fire-escape, Portable. P. P. Vescovi. No. 1,352,280; Sept. 7; v. 278; p. 99.
Fire-extinguisher. I. W. Adams. No. 1,359,478; Nov. 23; v. 280; p. 596.
Fire-extinguisher. C. R. Alexander. No. 1,360,070; Nov. 23; v. 280; p. 712.
Fire-extinguisher. F. C. Bargar. No. 1,338,166; Apr. 27; v. 273; p. 671.
Fire-extinguisher. H. A. Braman. No. 1,362,223; Dec. 14; v. 281; p. 295.
Fire-extinguisher. A. L. Cole. 1,340,376; May 18; v. 274; p. 457.
Fire-extinguisher. M. De F. Sample. No. 1,362,745; Dec. 21; v. 281; p. 448.
Fire-extinguisher. E. M. Evleth. No. 1,329,831; Feb. 3; v. 271; p. 91.
Fire-extinguisher. G. B. Haines. No. 1,335,682; Mar. 30; v. 272; p. 880.
Fire-extinguisher. G. B. Haines. No. 1,337,130; Apr. 13; v. 273; p. 330.
Fire-extinguisher. E. L. Hall. No. 1,326,927; Jan. 6; v. 270; p. 8.
Fire-extinguisher. F. E. d'Humy. No. 1,329,655; Feb. 3; v. 271; p. 58.
Fire-extinguisher. J. W. Longstreth. No. 1,346,035; July 6; v. 276; p. 140.
Fire-extinguisher. H. E. Morris. No. 1,357,410; Nov. 2; v. 280; p. 40.
Fire-extinguisher. G. T. Pearsons. No. 1,363,009; Dec. 21; v. 281; p. 499.
Fire-extinguisher. A. B. and B. H. Phister. No. 1,356,657; Oct. 26; v. 279; p. 574.
Fire-extinguisher. F. J. H. Rustige. No. 1,335,894; Mar. 30; v. 272; p. 826.
Fire-extinguisher and gas-well capper. A. W. Moore. No. 1,345,214; June 29; v. 275; p. 950.
Fire-extinguisher, Automatic self-contained. C. S. Durkee. No. 1,345,435; July 6; v. 276; p. 21.
Fire-extinguisher, Automatically-operated. A. Charter. No. 1,348,480; Aug. 3; v. 277; p. 68.
Fire-extinguisher, Chemical. C. Graaff. No. 1,332,720; Mar. 2; v. 272; p. 104.
Fire-extinguisher, Chemical. K. Schmidt. No. 1,342,768; June 8; v. 275; p. 279.
Fire-extinguisher, Dry chemical. C. S. Davidson. No. 1,354,093; Sept. 28; v. 278; p. 608.
Fire-extinguisher for projecting foam and liquid. O. J. Holmes. No. 1,361,997; Dec. 14; v. 281; p. 251.
Fire-extinguisher, Hand-operated. C. L. Bastian. No. 1,342,580; June 8; v. 275; p. 242.
Fire-extinguisher system, Stationary chemical-mixing. J. W. Enright. No. 1,353,466; Sept. 21; v. 278; p. 437.
Fire-extinguishers and other articles, Holder for. H. E. Tunnell. No. 1,360,829; Nov. 30; v. 280; p. 929.
Fire-extinguishers, Cartridge for chemical. C. Graaff. No. 1,338,828; May 4; v. 274; p. 33.
Fire-extinguishers, Signal device for. J. C. Monahan. No. 1,356,303; Oct. 19; v. 279; p. 458.
Fire-extinguishers, Support for. W. J. Blenke. No. 1,347,611; July 27; v. 276; p. 628.
Fire-extinguishers, Supporting-bracket for. M. G. Kopf. No. 1,337,234; Apr. 20; v. 273; p. 424.
Fire-extinguishing apparatus. K. E. Alitalo. No. 1,353,884; Sept. 28; v. 278; p. 564.
Fire-extinguishing apparatus. C. C. Jones. No. 1,338,778; May 4; v. 274; p. 24.
Fire-extinguishing apparatus and control device therefor, Chemical. J. R. Hamilton. No. 1,343,364; June 15; v. 275; p. 459.
Fire-extinguishing apparatus for oil-tanks, Automatic. O. J. Holmes. No. 1,356,207; Oct. 18; v. 279; p. 439.
Fire-extinguishing device. W. H. Byrd. No. 1,346,099; July 6; v. 276; p. 153.
Fire-fighting apparatus. J. C. Witt. No. 1,351,065; Aug. 31; v. 277; p 808
Fire, Gas-. C. Scott-Snell. No. 1,343,484; June 15; v. 275; p. 483.
Fire-hose, Implement for kinking. W. F. Corbin. No. 1,336,891; Apr. 13; v. 273; p. 285.
Fire-hose support. J. H. Stillwaggon. No. 1,344,786; June 29; v. 275; p. 859.
Fire-hydrant. M. C. Wetzler. No. 1,360,340; Nov. 30; v. 280; p. 833.
Fire-hydrant valves while under water-pressure, Means for removing. D. Goldberg. No. 1,349,062; Aug. 10; v. 277; p. 232.
Fire, Imitation. H. H. Berry. No. 1,336,500; Apr. 13; v. 273; p. 209.
Fire-indicating system, Marine. W. H. Freygang, W. Kidde, and B. G. Worth. No. 1,343,911; June 22; v. 275; p. 633.
Fire-kindler. E. Calmer. No. 1,353,214; Sept. 21; v. 278; p. 888.
Fire, Means for releasing the fastenings of metallic parts in case of. E. H. McCloud. No. 1,332,946; Mar. 9; v. 272; p. 199.
Fire, Method and apparatus for preventing the spread of. E. E. Free. No. 1,344,630; June 29; v. 275; p. 839.
Fire-plug. T. H. Meushaw and C. J. Dies. No. 1,351,781; Sept. 7; v. 278; p. 13.
Fire-prevention means. A. F. Eickhoff. No. 1,355,595; Oct. 12; v. 279; p. 278.
Fire-shutter brake. E. H. McCloud. No. 1,339,880; May 4; v. 274; p. 135.
Fire-shutter, Counterbalanced. W. B. Gervais. No. 1,353,833; Sept. 21; v. 278; p. 411.
Fire-starter. H. J. Miller. No. 1,333,557; Mar. 9; v. 272; p. 813.
Fire-stop control. J. F. Wilson. No. 1,334,925; Mar. 23; v. 272; p. 679.
Fires, Apparatus for extinguishing. O. R. Erwin and C. B. Flory. No. 1,331,466; Feb. 17; v. 271; p. 497.
Fires, Apparatus for generating foam for extinguishing. J. B. and O. R. Erwin. No. 1,340,601; May 18; v. 274; p. 500.
Fires, Extinguishing. F. A. Epps. No. 1,355,951; Oct. 19; v. 279; p 388
Fires in and about hydrocarbon-tanks and apparatus for carrying out same, Extinguishing. W. A. Ross. No. 1,347,057; July 20; v. 276; p. 463.
Firearm. A. M. Aubert. No. 1,328,475; Jan. 20; v. 270; p. 397.
Firearm. R. S. Blair. No. 1,352,938; Sept. 14; v. 278; p. 274.
Firearm. G. M. Formby. No. 1,348,444; June 15; v. 275; p. 475.
Firearm. G. Hammond. No. 1,359,365; Nov. 16; v. 280; p. 527.
Firearm. G. Hammond. No. 1,363,040; Dec. 21; v. 281; p. 506.
Firearm. L. D. Hubbell. No. 1,382,267; Sept. 7; v. 278; p. 106.
Firearm. W. J. Morrison. No. 1,359,726; Nov. 23; v. 280; p. 644.
Firearm. O. F. Mossberg. No. 1,348,035; July 27; v. 276; p. 713.
Firearm. O. V. Payne. No. 1,338,866; May 4; v. 274; p. 40.
Firearm. O. V. Payne. No. 1,347,754; July 27; v. 276; p. 658.
Firearm. O. V. Payne. No. 1,349,345; Aug. 10; v. 277; p. 289.
Firearm. O. V. Payne. No. 1,357,208; Oct. 26; v. 279; p. 681.
Firearm. O. V. Payne. No. 1,363,809; Dec. 28; v. 281; p. 695.
Firearm. J. D. Pedersen. No. 1,333,570; Mar. 9; v. 272; p. 316.
Firearm. J. D. Pedersen. No. 1,333,571; Mar. 9; v. 272; p. 316

Digitized by Google

Alphabetical list of inventions—Continued.

Firearm. J. D. Pedersen. No. 1,383,572; Mar. 9; v. 272; p. 316.
Firearm. J. D. Pedersen. No. 1,354,417; Oct. 12; v. 279; p. 243.
Firearm. J. D. Pedersen. No. 1,355,419; Oct. 12; v. 279; p. 244.
Firearm. J. D. Pedersen. No. 1,355,420; Oct. 12; v. 279; p. 244.
Firearm. J. D. Pedersen. No. 1,355,423; Oct. 12; v. 279; p. 244.
Firearm. J. D. Pedersen. No. 1,355,424; Oct. 12; v. 279; p. 245.
Firearm. J. D. Pedersen. No. 1,355,425; Oct. 12; v. 279; p. 245.
Firearm. K. J. Pen. No. 1,358,015; Nov. 9; v. 280; p. 217.
Firearm. E. E. Redfield. No. 1,343,583; June 15; v. 275; p. 503.
Firearm. E. G. Reising. No. 1,359,746; Nov. 23; v. 280; p. 648.
Firearm. S. Vianch. No. 1,348,910; Aug. 10; v. 277; p. 203.
Firearm and alloy for making same. F. A. Fahrenwald. No. 1,346,188; July 13; v. 276; p. 231.
Firearm and alloy for making same. F. A. Fahrenwald. No. 1,346,189; July 13; v. 276; p. 231.
Firearm and alloy for making same. F. A. Fahrenwald. No. 1,346,190; July 13; v. 276; p. 231.
Firearm and alloy for making same. F. A. Fahrenwald. No. 1,346,191; July 13; v. 276; p. 231.
Firearm, Autoloading. J. D. Pedersen. No. 1,348,733; Aug. 3; v. 277; p. 116.
Firearm, Automatic. A. Bardelli. No. 1,355,378; Oct. 12; v. 279; p. 237.
Firearm, Automatic. K. A. Bräuning. No. 1,350,543; Aug. 24; v. 277; p. 641.
Firearm, Automatic. M. G. Farquhar, and A. H. Hill. No. 1,350,961; Aug. 24; v. 277; p. 721.
Firearm, Automatic. M. G. Farquhar and A. H. Hill. No. 1,353,736; Sept. 21; v. 278; p. 492.
Firearm, Automatic. H. W. Gabbett-Fairfax. No. 1,344,499; June 22; v. 275; p. 748.
Firearm, Automatic. H. W. Gabbett-Fairfax. No. 1,346,012; July 6; v. 276; p. 135.
Firearm, Automatic. H. W. Gabbett-Fairfax. No. 1,357,857; Nov. 2; v. 280; p. 125.
Firearm, Automatic or semi-automatic. H. W. Gabbett-Fairfax. No. 1,338,649; Apr. 27; v. 273; p. 761.
Firearm, Bolt-action. T. C. Johnson. No. 1,349,675; Aug. 17; v. 277; p. 427.
Firearm control. F. D. Ely. No. 1,320,230; Jan. 27; v. 270; p. 568.
Firearm mechanism, Electrically-controlled. S. G. Green. No. 1,352,891; Sept. 14; v. 278; p. 265.
Firearm, Repeating. L. V. Olson. No. 1,355,252; Oct. 12; v. 279; p. 212.
Firearm, Searchlight. J. Matys. No. 1,338,239; Apr. 27; v. 278; p. 684.
Firearm-sight. C. B. Winder. No. 1,339,248; May 4; v. 274; p. 110.
Firearm-sighting device. G. A. Bader. No. 1,344,973; June 29; v. 275; p. 904.
Firearm stand or support. M. G. Farquhar and A. H. Hill. No. 1,355,660; Oct. 12; v. 279; p. 290.
Firearms, Apparatus for deflecting fire of. A. T. Fischer. No. 1,348,987; Aug. 10; v. 277; p. 218.
Firearms, Arrangement for deadening the recoil of. N. J. A. Galliot and G. H. L. G. Bory. No. 1,333,402; Mar. 9; v. 272; p. 284.
Firearms, Box-magazine for. T. C. Johnson. No. 1,331,155; Feb. 17; v. 271; p. 439.
Firearms, Breech-action for. I. N. Lewis. No. 1,344,911; June 29; v. 275; p. 893.
Firearms, Breech-bolt lock for. G. Hammond. No. 1,363,041; Dec. 21; v. 281; p. 506.
Firearms, Cartridge-extractor for. F. W. Hulse. No. 1,352,515; Sept. 14; v. 278; p. 190.
Firearms, Cartridge-feed mechanism for breech-loading. C. W. Lang. No. 1,359,607; Nov. 23; v. 280; p. 621.
Firearms, Cooling. P. C. Hewitt. No. 1,329,903; Feb. 3; v. 271; p. 105.
Firearms, Detachable and interchangeable butt-piece for. W. L. Marble. No. 1,331,074; Feb. 17; v. 271; p. 425.
Firearms, Detachable and interchangeable butt-piece for. W. L. Marble. No. 1,331,075; Feb. 17; v. 271; p. 425.
Firearms, Device for aiming. S. Tousey. No. 1,340,579; May 18; v. 274; p. 495.
Firearms, Device for increasing the efficiency of. E. L. Garnier. No. 1,327,545; Jan. 6; v. 270; p. 124.
Firearms, Firing mechanism for. C. W. Lang. No. 1,359,609; Nov. 23; v. 280; p. 621.
Firearms, Firing mechanism for. F. A. Stafford. No. 1,354,701; Oct. 5; v. 279; p. 51.
Firearms, Flash and recoil reducer for. F. W. Young. No. 1,342,978; June 8; v. 275; p. 321.
Firearms, Flash-light attachment for. C. M. Masters. No. 1,362,432; Dec. 14; v. 281; p. 335.
Firearms, Front sight for. E. M. W. Kaempfer. No. 1,357,094; Oct. 26; v. 279; p. 659.
Firearms, Leaf-sight for. F. F. Burton. No. 1,338,121; Apr. 27; v. 273; p. 662.
Firearms, Magazine for. G. Hammond. No. 1,348,172; Aug. 3; v. 277; p. 8.
Firearms, Magazine for. O. V. Payne. No. 1,361,402; Dec. 7; v. 281; p. 84.
Firearms, optical apparatus, &c., Sighting means for. G. Fornonzini. No. 1,329,075; Jan. 27; v. 270; p. 539.
Firearms, Rear sight for. E. M. W. Kaempfer. No. 1,357,095; Oct. 26; v. 279; p. 659.
Firearms, Rear sight for. G. S. Lewis. No. 1,338,382; Apr. 27; v. 273; p. 712.
Firearms, Recoil-absorbing attachment for. T. F. Moller. No. 1,334,467; Mar. 23; v. 272; p. 591.
Firearms, Recoil-absorbing device for. N. J. A. Galliot and G. H. L. G. Bory. No. 1,333,403; Mar. 9; v. 272; p. 284.
Firearms, Recoil-pad for. W. L. Marble. No. 1,349,779; Aug. 17; v. 277; p. 447.
Firearms, Rifling for. A. B. Lashley. No. 1,335,444; Mar. 30; v. 272; p. 835.
Firearms, Safety device for. B. F. Schmidt. No. 1,335,988; Apr. 6; v. 273; p. 54.
Firearms, Sight for. J. E. Kraft. No. 1,344,639; June 29; v. 275; p. 841.
Firearms, Telescope-mounting for. T. D. Joeck. No. 1,362,320; Dec. 14; v. 281; p. 814.
Firearms, Ventilated sight-rib for single-barrel. C. E. Blizard. No. 1,329,861; Feb. 3; v. 271; p. 4.
Firecracker-holder. M. Keeton. No. 1,362,705; Dec. 21; v. 281; p. 441.
Firing device, Automatic. O. Kelly. No. 1,340,274; May 18; v. 274; p. 437.
Firing, Device for oblique. A. T. Fischer. No. 1,341,117; May 25; v. 274; p. 669.
Firing-pin, Obturating. J. T. Thompson. No. 1,345,565; July 6; v. 276; p. 47.
Fireplace. W. Hagenbuch. No. 1,350,495; Aug. 24; v. 277; p. 632.
Fireplace heater and cooker. T. Carter. No. 1,352,048; Sept. 7; v. 278; p. 65.
Fireplace-heater, Auxiliary. A. D. McLeod. No. 1,361,389; Dec. 7; v. 281; p. 81.
Firepot. E. W. Ryer. No. 1,345,888; July 6; v. 276; p. 110.
Fireproof composition. J. E. Embardt. No. 1,329,386; Feb. 3; v. 271; p. 8.
Fireproof doors. E. R. Leonard. No. 1,339,205; May 4; v. 274; p. 103.
Fireproof elevator-door. B. Wexler. No. 1,342,482; June 8; v. 275; p. 223.
Fireproof fabric and producing same. C. L. Saunders, G. C. Stanley, and C. W. Bennett. No. 1,358,250; Nov. 9; v. 280; p. 263.
Fireproof partition. E. R. Leonard. No. 1,339,360; May 4; v. 274; p. 131.
Fireproof window. J. W. Yates. No. 1,340,312; May 18; v. 274; p. 444.
Fireproof-window-closing means. J. W. Yates. No. 1,340,311; May 18; v. 274; p. 444.
Fireproofing composition and making same. T. B. Munroe. No. 1,338,322; Apr. 27; v. 273; p. 700.
Fireproofing material. H. S. Aahenhurst. No. 1,351,149; Aug. 31; v. 277; p. 820.
Fish and crab trap. C. W. Mueller. No. 1,330,275; May 4; v. 274; p. 115.
Fish, Apparatus and process for positioning. F. D. Cleveland. No. 1,362,396; Dec. 14; v. 281; p. 328.
Fish, Apparatus for smoking. J. W. Marr. No. 1,345,095; June 29; v. 275; p. 927.
Fish-butchering machines, Pincers for. E. H. Waugh. No. 1,360,064; Nov. 23; v. 280; p. 711.
Fish-clamp. C. A. H. Bahde. No. 1,353,081; Sept. 28; v. 278; p. 584.
Fish-cleaning device. C. A. H. Bahde. No. 1,360,490; Nov. 30; v. 280; p. 863.
Fish-cleaning machine. J. F. Birch, Jr. No. 1,326,905; Jan. 6; v. 270; p. 4.
Fish-cleaning machine. A. Reynolds. No. 1,362,510; Dec. 14; v. 281; p. 350.
Fish-cleaning machines, Belly-finning head for. E. H. Waugh. No. 1,337,375; Apr. 20; v. 273; p. 452.
Fish-dressing machine. O. and T. Kloster. No. 1,331,932; Feb. 24; v. 271; p. 605.
Fish-dressing machines, Slitting-knife for. E. H. Waugh. No. 1,361,353; Dec. 7; v. 281; p. 75.
Fish-lure. G. T. Buddle. No. 1,333,154; Mar. 9; v. 272; p. 238.
Fish-lure. K. Kijima. No. 1,333,318; Mar. 9; v. 272; p. 268.
Fish-lure. A. S. Oliver and J. S. Gruber. No. 1,359,618; Nov. 23; v. 280; p. 623.
Fish-lure. C. L. Smith. No. 1,338,877; May 4; v. 274; p. 42.
Fish, Means and method of catching. P. Whitehead. No. 1,340,677; May 18; v. 274; p. 514.
Fish, Means for separating small from large. P. Wallace. No. 1,328,551; Jan. 20; v. 270; p. 412.
Fish, Method and means for catching. W. J. Davis. No. 1,361,691; Dec. 7; v. 281; p. 143.
Fish-plate and nut-lock. E. Collins. No. 1,334,889; Mar. 23; v. 272; p. 671.
Fish-reel. S. L. Kuntz. No. 1,334,763; Mar. 23; v. 272; p. 647.

Digitized by Google

Fish-scaler. I. Grayson. No. 1,328,148; Jan. 13; v. 270; p. 299.
Fish screen or guard. G. J. Dixon. No. 1,346,881; July 20; v. 276; p. 427.
Fish, Smoking and drying apparatus for. T. G. Norland. No. 1,344,350; June 22; v. 275; p. 718.
Fish-stringer. A. N. Putney. No. 1,341,722; June 1; v. 275; p. 21.
Fish-stringer. C. L. Stein. No. 1,350,390; Aug. 24; v. 277; p. 611.
Fish-trap. E. M. Johnson. No. 1,336,356; Apr. 6; v. 273; p. 128.
Fish-trap. F. Perkins. No. 1,357,114; Oct. 26; v. 279; p. 663.
Fish-trap and fishing. J. J. Matheson. No. 1,363,424; Dec. 28; v. 281; p. 619.
Fish-trap, Floating. H. Gangmark. No. 1,330,757; Feb. 10; v. 271; p. 295.
Fishbait. H. S. Dills. No. 1,352,054; Sept. 7; v. 278; p. 66.
Fisherman's bob. F. R. Chase. No. 1,362,781; Dec. 21; v. 281; p. 456.
Fisherman's reel. H. O. Barry. No. 1,333,697; Mar. 16; v. 272; p. 401.
Fisherman's submersible light. E. W. Reinewald. No. 1,338,528; Apr. 27; v. 273; p. 739.
Fishhook. A. A. Anderson. No. 1,333,148; Mar. 9; v. 272; p. 237.
Fishhook. A. Bain. No. 1,357,678; Nov. 2; v. 280; p. 90.
Fishhook. J. O. Becvar. No. 1,336,987; Apr. 13; v. 273; p. 303.
Fishhook. J. J. G. Cooper. No. 1,333,101; Mar. 9; v. 272; p. 228.
Fishhook. T. Coté, No. 1,338,856; May 4; v. 274; p. 38.
Fishhook. K. Leon. No. 1,340,780; May 18; v. 274; p. 533.
Fishhook. C. F. Murray. No. 1,333,564; Mar. 9; v. 272; p. 315.
Fishhook-grapple. P. A. Cole. No. 1,334,839; Mar. 23; v. 272; p. 662.
Fishing. Automatic self striking and landing reel for commercial. G. M. Michaelis. No. 1,360,429; Nov. 30; v. 280; p. 851.
Fishing device. E. Juras. No. 1,334,702; Mar. 23; v. 272; p. 635.
Fishing-float. J. A. Marks. No. 1,361,602; Dec. 7; v. 281; p. 126.
Fishing-float. E. Talbot. No. 1,350,530; Aug. 24; v. 277; p. 639.
Fishing-gig. J. D. Woods. No. 1,334,206; Mar. 16; v. 272; p. 495.
Fishing-line drag. L. T. Weiss. No. 1,333,691; Mar. 16; v. 272; p. 400.
Fishing-net. J. K. Dukas. No. 1,351,628; Aug. 31; v. 277; p. 916.
Fishing-net. J. D. Goss. No. 1,341,552; May 25; v. 274; p. 753.
Fishing-reel. A. O. Abbott, Jr. No. 1,353,816; Sept. 28; v. 278; p. 551.
Fishing-reel. W. L. Adams. No. 1,357,670; Nov. 2; v. 280; p. 89.
Fishing-reel. L. Atwood. No. 1,358,049; Nov. 9; v. 280; p. 223.
Fishing-reel. L. Benson. No. 1,351,549; Aug. 31; v. 277; p. 901.
Fishing-reel. F. M. Case. No. 1,344,289; June 22; v. 275; p. 706.
Fishing-reel. F. M. Case. No. 1,345,072; June 29; v. 275; p. 923.
Fishing-reel. C. L. Deets. No. 1,353,113; Sept. 14; v. 278; p. 308.
Fishing-reel. F. McKimmy. No. 1,353,170; Sept. 21; v. 278; p. 380.
Fishing-reel. L. P. Mallow. No. 1,358,382; Nov. 9; v. 280; p. 290.
Fishing-reel. D. M. Reuzé. No. 1,341,519. May 25; v. 274; p. 747.
Fishing-reel. J. D. Robertson. No. 1,355,695; Oct. 12; v. 279; p. 298.
Fishing-reel. J. I. Smith. No. 1,328,696; Jan. 20; v. 270; p. 438.
Fishing-reel. J. A. Wherry. No. 1,347,529; July 27; v. 276; p. 611.
Fishing-rod. F. Hardy. No. 1,351,473; Aug. 31; v. 277; p. 885.
Fishing-rod. M. Winskas. No. 1,337,378; Apr. 20; v. 273; p. 452.
Fishing rod and reel. J. L. Beck. No. 1,327,751; Jan. 13; v. 270; p. 224.
Fishing-rod reel-seat. W. L. Beaty. No. 1,350,636; Aug. 24; v. 277; p. 660.
Fishing-rod reel-seat. W. L. Beaty. No. 1,350,637; Aug. 24; v. 277; p. 660.
Fishing-rods, Combination alarm and indicator for. I. E. Gott and J. O. Longstreet. No. 1,330,314; Feb. 10; v. 271; p. 212.
Fishing-rods, Detachable finger-hook for. E. P. Bartlett. No. 1,331,312; Feb. 17; v. 271; p. 467.
Fishing-signal. S. Owsiak. No. 1,349,528; Aug. 10; v. 277; p. 325.
Fishing-tackle. H. England. No. 1,339,697; May 11; v. 274; p. 272.
Fishing-tackle. H. R. Frensdorf. No. 1,339,189; May 4; v. 274; p. 100.
Fishing-tackle. E. A. and C. T. Pflueger. No. 1,339,832; May 11; v. 274; p. 297.
Fishing-tackle, Light attachment for. E. J. Timmons. No. 1,337,292; Apr. 20; v. 273; p. 436.
Fishing-tool. C. E. Griffith. No. 1,363,779; Dec. 28; v. 281; p. 689.
Fishing-tool. J. F. McMillian and C. E. Reed. No. 1,362,883; Dec. 21; v. 281; p. 475.
Fishline attachment. M. J. Crosbie. No. 1,351,625; Aug. 31; v. 277; p. 915.
Fishline-reel. W. Schmid. No. 1,363,817; Dec. 28; v. 281; p. 696.
Fishline-reel. W. Shakespeare, Jr. and W. Schmid. No. 1,330,553; Feb. 10; v. 271; p. 257.
Fishline-reel. S. T. Thorpe. No. 1,337,857; Apr. 20; v. 273; p. 543.
Fishline-spreader. M. G. Lawrence. No. 1,352,979; Sept. 14; v. 278; p. 283.
Fishpole-support. C. A. D. Hafner. No. 1,352,663; Sept. 14; v. 278; p. 219.
Fixture-hanger and concealed switch-holder, Combination. W. R. Wallick. No. 1,362,906; Dec. 21; v. 281; p. 479.
Flag-halyard. J. J. Rohrbaugh. No. 1,360,584; Nov. 30; v. 280; p. 881.
Flag-holder, Adjustable. T. W. Saltmarsh and H. F. Gonzalez. No. 1,339,833; May 11; v. 274; p. 297.
Flag, pennant, or banner floating bracket. H. Johnson and A. D. C. Walker. No. 1,339,849; May 11; v. 274; p. 300.
Flag, Service-. W. K. Spaulding. No. 1,355,861; Oct. 19; v. 279; p. 370.
Flag-support. C. T. Harned. No. 1,337,222; Apr. 20; v. 273; p. 422.
Flag-support. W. G. Marr. No. 1,359,818; Nov. 23; v. 280; p. 662.
Flagpole-bracket. J. M. Feeney. No. 1,355,322; Oct. 12; v. 279; p. 226.
Flagstaff. C. A. Keeley. No. 1,343,140; June 8; v. 275; p. 353.
Flagstaff and support therefor. C. Short. No. 1,349,921; Aug. 17; v. 277; p. 473.
Flaker. W. D. Mount. No. 1,340,732; May 18; v. 274; p. 524.
Flake-splitter. W. O. Arzinger. No. 1,333,198; Mar. 9; v. 272; p. 245.
Flame-projector apparatus. H. Cave and J. L. Anderson. No. 1,340,012; May 11; v. 274; p. 331.
Flame-protector. H. Morris. No. 1,339,215; May 4; v. 274; p. 105.
Flange-frog. R. E. Einstein. No. 1,399,597; May 11; v. 274; p. 253.
Flange-frog, Cast-metal. R. E. Einstein. No. 1,339,598; May 11; v. 274; p. 253.
Flanged articles, Making. J. J. Cain. No. 1,338,419; Apr. 27; v 273; p. 718.
Flash-eliminator. O. C. Moyers. No. 1,351,960; Sept. 7; v. 278; p. 49.
Flash-light. F. D. Boulanger. No. 1,342,322; June 1; v. 275; p. 138.
Flash-light. L. S. Bryant. No. 1,334,835; Mar. 23; v. v. 272; p. 661.
Flash-light. G. Frankel. No. 1,332,868; Mar. 2; v. 272; p. 132.
Flash-light. T. E. Lander and J. Hauenstein. No. 1,363,132; Dec. 21; v. 281; p. 524.
Flash-light apparatus. W. E. Mayer. No. 1,333,030; Mar. 9; v. 272; p. 215.
Flash-light bag. G. A. Ley. No. 1,350,730; Aug. 24; v. 277; p. 678.
Flash-light battery. N. D. Forbes. No. 1,358,717; Nov. 16; v. 280; p. 402.
Flash-light, Electric. W. Ile. No. 1,333,919; Mar. 16; v. 272; p. 442.
Flash-light for elevator-thresholds. R. S. Porter. No. 1,361,743; Dec. 7; v. 281; p. 153.
Flash-light holder. W. Waegel. No. 1,352,708; Sept. 14; v. 278; p. 228.
Flash-light holder. T. A. Williams. No. 1,344,073; June 22; v. 275; p. 664.
Flash-light-testing apparatus. G. A. Ley. No. 1,345,201; June 29; v. 275; p. 948.
Flash-lights, Lamp and reflector holder for. H. M. Koretzky. No. 1,333,427; Mar. 9; v. 272; p. 288.
Flash-lights, Seat-indicator attachment for. P. A. Pinto. No. 1,360,575; Nov. 30; v. 280; p. 880.
Flashing. J. E. White. No. 1,331,835; Feb. 24; v. 271; p. 587.
Flashlight. J. Vince. No. 1,347,423; July 20; v. 276; p. 534.
Flashlight device. P. C. Smalley. No. 1,346,138; July 13; v. 276; p. 222.
Flash-mold. W. H. Kempton. No. 1,333,621; Mar. 16; v. 272; p. 386.
Flask: *See*—
Dental flask.
Foundry-flask.
Molder's flask.
Molding-flask.
Torpedo-flask.

Digitized by Google

Flask-bar. R. S. Buch. No. 1,347,574; July 27; v. 276; p. 621.
Flat articles, Machine for inclosing. W. E. Swift. No. 1,333,044; Mar. 9; v. 272; p. 217.
Flatiron, Electric. H. Kocourek. No. 1,350,867; Aug. 24; v. 277; p. 703.
Flatiron, Electric. W. Morgan. No. 1,327,602; Jan. 6; v. 270; p. 135.
Flatiron-holder. A. L. Mann. No. 1,347,123; July 20; v. 276; p. 475.
Flatiron-rest. C. V. Wilson. No. 1,343,699; June 15; v. 275; p. 526.
Flax and other fibrous materials, Scutching. G. Michot. No. 1,331,659; Feb. 24; v. 271; p. 554.
Flax, Apparatus for deseeding. F. L. van Allen. No. 1,350,045; Aug. 17; v. 277; p. 498.
Flax-machine. C. G. Cooke. No. 1,348,089; July 27; v. 276; p. 724.
Flax or similar fiber and product, Treating. W. J. Robinson. No. 1,355,571; Oct. 12; v. 279; p. 274.
Flax, Retting. B. S. Summers. No. 1,360,329; Nov. 30; v. 280; p. 831.
Flax, straw, &c., Process of and machine for treating. I. Etrich. No. 1,331,332; Feb. 17; v. 271; p. 471.
Flax-treating machine. C. G. Cooke. No. 1,354,644; Oct. 5; v. 279; p. 39.
Flexible base-jack. C. W. Ripsch. No. 1,346,847; July 20; v. 276; p. 420.
Flexible connection. R. Star. No. 1,345,971; July 6; v. 276; p. 127.
Flexible coupling. E. E. Brown. No. 1,328,366; Jan. 20; v. 270; p. 377.
Flexible coupling. I. H. Dexter. No. 1,359,157; Nov. 16; v. 280; p. 486.
Flexible coupling. I. H. Dexter. No. 1,363,849; Dec. 28; v. 281; p. 703.
Flexible coupling. E. D. Dickinson and J. Wilkinson. No. 1,352,251; Sept. 7; v. 278; p. 103.
Flexible coupling. G. F. Eckart. No. 1,337,646; Apr. 20; v. 273; p. 502.
Flexible coupling. W. J. Francke. No. 1,343,121; June 8; v. 275; p. 349.
Flexible coupling. W. J. Francke. No. 1,358,537; Nov. 9; v. 280; p. 321.
Flexible coupling. J. R. Grundy. No. 1,352,953; Sept. 14; v. 278; p. 277.
Flexible coupling. I. Hupp. No. 1,334,537; Mar. 23; v. 272; p. 604.
Flexible coupling. C. L. Rayfield. No. 1,348,184; Aug. 3; v. 277; p. 10.
Flexible coupling. J. C. Sheler and R. B. Austin. No. 1,342,300; June 1; v. 275; p. 135.
Flexible coupling. F. R. Simms. No. 1,345,896; July 6; v. 276; p. 112.
Flexible coupling. I. A. Stockwell. No. 1,362,646; Dec. 21; v. 281; p. 429.
Flexible coupling. G. E. Tomlinson. No. 1,353,677; Sept. 21; v. 278; p. 481.
Flexible joint. H. R. Stafford. No. 1,345,334; June 29; v. 275; p. 974.
Flexible members, Arrangement of. R. Caudron. No. 1,350,986; Aug. 24; v. 277; p. 726.
Flexible operating or tripping mechanism. L. Mandel. No. 1,358,011; Nov. 9; v. 280; p. 216.
Flexible pipe. J. H. Phillips, Jr. No. 1,327,632; Jan. 13; v. 270; p. 202.
Flexible tube. L. H. Brinkman. No. 1,340,818; May 18; v. 274; p. 540.
Flier for spinning purposes. A. W. Thomasen. No. 1,356,323; Oct. 19; v. 279; p. 462.
Float. W. A., F., and F. H. Engelhard. No. 1,347,217; July 20; v. 276; p. 493.
Float. W. Sparks. No. 1,340,572; May 18; v. 274; p. 494.
Float for boats. S. E. Van Horn. No. 1,352,770; Sept. 14; v. 278; p. 241.
Float, Life-. J. H. McDonah. No. 1,349,897; Aug. 17; v. 277; p. 469.
Float mechanism. J. M. Wright. No. 1,341,002; May 25; v. 274; p. 647.
Float, Thermally-controlled. S. Libbert. No. 1,345,938; July 6; v. 276; p. 121.
Floating device. G. Jordahn. No. 1,341,272; May 25; v. 274; p. 698.
Floating heater. S. M. Kass. No. 1,328,630; Jan. 20; v. 270; p. 426.
Flood-gate. J. A. Bolton. No. 1,329,951; Feb. 3; v. 271; p. 114.
Floor and ceiling construction. J. G. Davis. No. 1,330,370; Feb. 10; v. 271; p. 223.
Floor and ceiling construction. J. G. Davis. No. 1,347,146; July 20; v. 276; p. 479.
Floor and ceiling construction, Fireproof. D. F. Stockbridge. No. 1,358,999; Nov. 16; v. 280; p. 458.
Floor and paving block. W. H. Hollenbeck. No. 1,348,418; Aug. 3; v. 277; p. 57.
Floor-clamp. G. H. Scully. No. 1,354,854; Oct. 5; v. 279; p. 81.
Floor-cleaning machine. W. A. Rowe. No. 1,328,339; Jan. 20; v. 270; p. 372.
Floor construction. W. S. Hutchinson. No. 1,354,560; Oct. 5; v. 279; p. 23.
Floor construction. C. W. Stevens. No. 1,343,234; June 15; v. 275; p. 435.
Floor construction, Hog-house-. B. T. Bouma. No. 1,354,721; Oct. 5; v. 279; p. 55.
Floor construction, Reinforced-concrete. W. M. Pratt. No. 1,340,291; May 18; v. 274; p. 440.
Floor-covering. A. C. Holzapfel. No. 1,358,371; Nov. 9; v. 280; p. 288.
Floor-covering. J. S. Miller, Jr. No. 1,360,663; Nov. 30; v. 280; p. 897.
Floor-covering, Manufacture of. J. Funahashi. No. 1,329,170; Jan. 27; v. 270; p. 557.
Floor-covering, Manufacture of pliant. J. Oltmans. No. 1,356,784; Oct. 26; v. 279; p. 598.
Floor-coverings, Seam and edge binder for. F. R. Barclay. No. 1,354,155; Sept. 28; v. 278; p. 620.
Floor-heater, Gas. F. J. Ward. No. 1,334,005; Mar. 16; v. 272; p. 458.
Floor-laying jack. W. A. Neville. No. 1,354,332; Sept. 28; v. 278; p. 655.
Floor-lifting device. R. W. Williams. No. 1,343,862; June 15; v. 275; p. 559.
Floor or ceiling plate. A. J. Beaton. No. 1,344,219; June 22; v. 275; p. 692.
Floor-polisher. E. L. Snyder. No. 1,346,918; July 20; v. 276; p. 435.
Floor structure. I. W. Mason. No. 1,344,181; June 22; v. 275; p. 685.
Floor-sump cover. E. W. N. Boosey. No. 1,328,262; Jan. 20; v. 270; p. 356.
Floor-washing machine. P. Gorny. No. 1,358,310; Nov. 9; v. 280; p. 275.
Floor-waxing device. E. E. Moline. No. 1,343,223; June 15; v. 275; p. 433.
Flooring, Apparatus for coating and finishing. E. C. Dittmar. No. 1,339,106; May 4; v. 274; p. 86.
Flooring, Apparatus for coating and finishing. E. C. Dittmar. No. 1,339,107; May 4; v. 274; p. 86.
Flooring, Interlocked. J. D. Butler. No. 1,334,222; Mar. 16; v. 272; p. 498.
Flooring, Means for producing imitative-tile. W. F. Walling. No. 1,341,528; May 25; v. 274; p. 748.
Floral device. D. W. Ludwig. No. 1,336,249; Apr. 6; v. 273; p. 103.
Flotation apparatus. W. E. Greenawalt. No. 1,350,605; Aug. 24; v. 277; p. 654.
Flotation apparatus and process. J. M. Callow and H. P. Corliss. No. 1,331,238; Feb. 17; v. 271; p. 454.
Flotation-machine. J. Allingham. No. 1,357,921; Nov. 2; v. 280; p. 137.
Flotation-machine. T. A. Janney. No. 1,342,115; June 1; v. 275; p. 99.
Flotation-machine. I. R. Margetts and W. Fagergren. No. 1,361,342; Dec. 7; v. 281; p. 72.
Flotation process. R. Gahl. No. 1,346,819; July 20; v. 276; p. 415.
Flotation process. E. B. Thornhill. No. 1,338,264; Apr. 27; v. 273; p. 689.
Flour and making same, Corn-. P. G. Garza. No. 1,334,366; Mar. 23; v. 272; p. 572.
Flour-bins, Sifter for. J. H. Dean. No. 1,342,989; June 8; v. 275; p. 323.
Flour, Bleaching and improving. E. T. Fegan. No. 1,330,937; Feb. 17; v. 271; p. 399.
Flour in mills, System of handling. H. O. Harding. No. 1,357,977; Nov. 9; v. 280; p. 209.
Flour-mill. E. T. Pollard and W. N. Morley. No. 1,348,049; July 27; v. 276; p. 716.
Flour-mill. J. H. Rousseau and A. Coté. No. 1,344,453; June 22; v. 275; p. 739.
Flour process and apparatus. E. F. Clark. No. 1,360,499; Nov. 30; v. 280; p. 865.
Flow-meter. L. A. Sheldon. No. 1,359,846; Nov. 23; v. 280; p. 668.
Flow-meters, Apparatus for calibrating U-tubes for. J. A. Shorey. No 1,337,969; Apr. 20; v. 273; p. 564.
Flower-box. C. R. Sanborn. No. 1,351,490; Aug. 31; v. 277; p. 888.
Flower-holder. M. G. Tilney. No. 1,344,526; June 22; v. 275; p. 754.
Flower or plant holder. G. W. Schimmel. No. 1,357,732; Nov. 2; v. 280; p. 101.
Flower petals, Machine for shaping artificial-. A. J. Schwarzenbach and B. W. Tucker. No. 1,353,426; Sept. 21; v. 278; p. 429.
Flower-pot support. F. Leitch. No. 1,343,568; June 15; v. 275; p. 500.
Flower-stand. L. Bach and E. Kuebler. No. 1,334,069; Mar. 16; v. 272; p. 470.
Flowing materials, Apparatus for automatically controlling. W. O. Renkin. No. 1,328,018; Jan. 27; v. 270; p. 528.
Flue-pan. T. A. Legg. No. 1,362,947; Dec. 21; v. 281; p. 487.
Flue-cleaner. W. W. Evans. No. 1,355,239; Nov. 16; v. 280; p. 502.
Flue-cleaner. T. J. Rossell. No. 1,327,740; Jan. 13; v. 270; p. 222.
Flue-cleaner. C. H. Ryberg. No. 1,355,574; Oct. 12; v. 279; p. 275.
Flue-cleaning machine. H. H. Jones. No. 1,339,348; May 4; v. 274; p. 129.

Digitized by Google

Flue-closure. W. C. Adams. No. 1,347,139; July 20; v. 276; p. 478.
Flue, Combination-. R. A. Carl. No. 1,328,647; Jan. 20; v. 270; p. 430.
Flue-dust, Recovery of solubles from. R. B. Stringfield. No. 1,345,034; June 29; v. 275; p. 916.
Flue-extractor. P. M. Canty. No. 1,343,431; June 15; v. 275; p. 473.
Flue-pan. T. A. Legg. No. 1,342,918; June 8; v. 275; p. 309.
Flue, Safe end. C. S. Coleman. No. 1,333,468; Mar. 9; v. 272; p. 297.
Flue, Safe end. C. S. Coleman. No. 1,339,740. May 11; v. 274; p. 279.
Flue, Smoke-. J. A. Speaks. No. 1,337,781; Apr. 20; v. 273; p. 519.
Flue-stopper. M. A. Tracy. No. 1,340,090. May 11; v. 274; p. 345.
Flue-support. C. D. Reynolds. No. 1,343,279; June 15; v. 275; p. 443.
Fluid-actuated mechanism, Pressure-. W. H. Keller. No. 1,332,845; Mar. 2; v. 272; p. 128.
Fluid applicator and package. C. T. Davis. No. 1,363,960; Dec. 28; v. 281; p. 724.
Fluid-checking device. N. E. Davies. No. 1,347,017; July 20; v. 276; p. 454.
Fluid-controller, Automatic. H. O. Baker. No. 1,354,373; Sept. 28; v. 278; p. 664.
Fluid-density meter. P. Okey. No. 1,354,681; Oct. 5; v. 279; p. 47.
Fluid-discharging device. C. Maisel. No. 1,358,089; Nov. 9; v. 280; p. 232.
Fluid-discharging device. M. W. Richard and E. Carlson. No. 1,332,520; Mar. 2; v. 272; p. 67.
Fluid-distributing systems, Automatic safety cut-off for combustible-. W. A. Bancroft. No. 1,332,283; Mar. 2; v. 272; p. 20.
Fluid-extracting press. J. C. Fiddyment. No. 1,333,249; Mar. 9; v. 272; p. 255.
Fluid-flow-control mechanism. J. M. Kingsbury. No. 1,346,898; July 20; v. 276; p. 431.
Fluid-fuel burner. D. H. Brazil. No. 1,329,224; Jan. 27; v. 270; p. 567.
Fluid-fuel burner. J. Geyer. No. 1,334,747; Mar. 23; v. 272; p. 644.
Fluid-fuel furnace. S. R. Hardwick. No. 1,363,867; Dec. 28; v. 281; p. 706.
Fluid-gage. C. M. Cole and W. S. Adams. No. 1,355,939; Oct. 19; v. 279; p. 385.
Fluid-heater. J. Braunstein. No. 1,356,427; Oct. 19; v. 279; p. 482.
Fluid-heater, Electrically-operated. A. Papini. No. 1,338,097; May 4; v. 274; p. 64.
Fluid-meter. F. Lambert. No. 1,331,159; Feb. 17; v. 271; p. 440.
Fluid-metering device. C. J. Bassler. No. 1,355,208; Oct. 12; v. 279; p. 203.
Fluid, Method of and apparatus for compressing. R. Suczek. No. 1,344,967; June 29; v. 275; p. 903.
Fluid-mixing apparatus. E. Ruud. (Reissue.) No. 14,836; Apr. 6; v. 273; p. 133.
Fluid-mixing apparatus. C. H. Sanford; No. 1,338,592; Apr. 27; v. 273; p. 750.
Fluid-motor. G. H. Gilman. No. 1,348,863; Aug. 10; v. 277; p. 194.
Fluid-operated motor. C. L. Heisler. No. 1,353,656; Sept. 21; v. 278; p. 476.
Fluid or air direct-pressure lifting and forcing apparatus for solids and semisolids. S. H. and C. H. Adams. No. 1,347,358; July 20; v. 276; p. 522.
Fluid or gaseous bodies, Removing suspended particles from. A. F. Nesbit. No. 1,357,201; Oct. 26; v. 279; p. 679.
Fluid or gaseous streams, Producing electrical precipitation of particles from. A. F. Nesbit. No. 1,357,202; Oct. 26; v. 279; p. 679.
Fluid-pressure brake. F. H. Dukesmith. No. 1,357,692; Nov. 2; v. 280; p. 93.
Fluid-pressure brake. W. V. Turner. No. 1,343,694; June 15; v. 275; p. 525.
Fluid-pressure brake apparatus. C. A. Ives. No. 1,334,862; Mar. 23; v. 272; p. 666.
Fluid-pressure-brake device. W. V. Turner. No. 1,339,679; May 11; v. 274; p. 268.
Fluid-pressure-controlling apparatus. L. A. Lang; No. 1,358,166; Nov. 9; v. 280; p. 246.
Fluid-pressure coupling. S. A. Rousseau. No. 1,343,852; June 15; v. 275; p. 556.
Fluid-pressure engines, Crank-shaft for. L. Coatalen and H. C. M. Stevens. No. 1,363,571; Dec. 28; v. 281; p. 649.
Fluid-pressure-generating apparatus, Centrifugal. C. H. Smoot. No. 1,361,107; Dec. 7; v. 281; p. 25.
Fluid-pressure generator. M. M. Karr. No. 1,334,614; Mar. 23; v. 272; p. 619.
Fluid-pressure mortar. V. R. Menon. No. 1,335,448; Mar. 30; v. 272; p. 836.
Fluid-pressure motor. G. H. Groth. No. 1,355,962; Oct. 19; v. 279; p. 390.
Fluid-pressure motor. T. Hall. No. 1,352,743; Sept. 14; v. 278; p. 235.
Fluid-pressure motor. R. F. Pack. No. 1,355,688; Oct. 12; v. 279; p. 296.
Fluid-pressure-operated controller. O. M. Jones. No. 1,335,898; Apr. 6; v. 273; p. 87.
Fluid-pressure presses, Recorder for. E. Schneider. No. 1,352,150; Sept. 7; v. 278; p. 84.
Fluid-pressure-reducing device. D. Crowther. No. 1,360,504; Nov. 30; v. 280; p. 866.
Fluid-pressure systems, Antifreeze device for. A. B. Wood. No. 1,336,984; Apr. 13; v. 273; p. 303.
Fluid-pressure systems, Method and apparatus for preventing and removing obstructions in. W. W. Hunsicker. No. 1,336,905; Apr. 13; v. 273; p. 288.
Fluid-pressure transmission. G. E. Thompson and P. A. Udall. No. 1,354,228; Sept. 28; v. 278; p. 635.
Fluid-pressure transmission. E. L. Washer. No. 1,363,068; Dec. 21; v. 281; p. 511.
Fluid-proportioning apparatus. I. Lundgaard. No. 1,333,986; Mar. 16; v. 272; p. 455.
Fluid-receptacle. A. J. Herschmann. No. 1,351,331; Aug. 31; v. 277; p. 857.
Fluid-regulator. P. Catucci and L. D. Nadel. No. 1,350,782; Aug. 24; v. 277; p. 688.
Fluid substances, Desiccating. R. W. G. Stutske. No. 1,350,247; Aug. 17; v. 277; p. 536.
Fluid substances, System for separating. A. S. Cosler. No. 1,327,944; Jan. 13; v. 270; p. 260.
Fluid, System for conserving motive. W. B. Flanders. No. 1,332,189; Feb. 24; v. 271; p. 652.
Fluid-translating device. H. F. Schmidt. No. 1,333,346; Mar. 9; v. 272; p. 274.
Fluid-translating device. H. F. Schmidt. No. 1,345,639; July 6; v. 276; p. 61.
Fluid-translating device. H. F. Schmidt. No. 1,345,640; July 6; v. 276; p. 61.
Fluid transmission. W. S. Olson. No. 1,363,907; Dec. 28; v. 281; p. 713.
Fluid transmission control. P. E. Holt. No. 1,356,718; Oct. 26; v. 279; p. 586.
Fluid-transmission mechanism. R. L. Swanson. No. 1,349,924; Aug. 17; v. 277; p. 474.
Fluids and semisolids, Apparatus for injecting. E. V. Jones. No. 1,328,567; Jan. 20; v. 270; p. 415.
Fluids, Device for moving. P. L. du Noüy. No. 1,335,672; Mar. 30; v. 272; p. 878.
Fluids, Means for transmitting high-pressure. E. G. du Masuel. No. 1,330,310; Feb. 10; v. 271; p. 211.
Fluids, Method of and apparatus for treating goods with. H. R. Anders. No. 1,345,341; July 6; v. 276; p. 3.
Fluidal apparatus. M. P. Osbourn. No. 1,346,910; July 20; v. 276; p. 433.
Flume. W. E. Newman and D. K. Stuart. No. 1,353,264; Sept. 21; v. 278; p. 397.
Flushing apparatus. W. G. Bosworth. No. 1,361,814; Dec. 14; v. 281; p. 214.
Flushing apparatus. D. F. Garvey. No. 1,353,841; Nov. 16; v. 280; p. 427.
Flushing apparatus. C. Metcalf. No. 1,333,269; Mar. 9; v. 272; p. 259.
Flushing apparatus. E. G. Watrous. No. 1,333,646; Mar. 16; v. 272; p. 391.
Flushing apparatus, Siphonic. M. J. McCloud. No. 1,349,683; Aug. 17; v. 277; p. 428.
Flushing device. G. P. Bender. No. 1,347,818; July 20; v. 276; p. 514.
Flushing system. C. A. Wulf. No. 1,346,362; July 13; v. 276; p. 266.
Flushing-tank. F. Scheler. No. 1,335,715; Mar. 30; v. 272; p. 886.
Flute, Mouth-. F. A. Morley. No. 1,341,860; June 1; v. 275; p. 49.
Flux. L. A. Inman and A. S. Harris. No. 1,357,871; Nov. 2; v. 280; p. 128.
Fly and hook, Artificial floating. H. W. Hayes. No. 1,336,227; Apr. 6; v. 273; p. 99.
Fly catcher and trap, Sanitary. R. J. Harris. No. 1,346,021; July 6; v. 276; p. 137.
Fly-catching apparatus. J. I. Dominguez. No. 1,359,796; Nov. 23; v. 280; p. 658.
Fly-chaser. A. Brunelle. No. 1,338,810; May 4; v. 274; p. 30.
Fly-escape. C. L. R. Cassady. No. 1,362,846; Dec. 21; v. 281; p. 468.
Fly-escape screen. G. W. Mittelstaedt. (Reissue.) No. 14,987; Nov. 16; v. 280; p. 551.
Fly-frame. J. H. Jones. No. 1,347,165; July 20; v. 276; p. 483.
Fly-guard. E. L. McManus. No. 1,340,069; May 11; v. 274; p. 341.
Fly-killer. M. Z. Wohlhuter. No. 1,331,806; Feb. 17; v. 271; p. 466.
Fly-killing device. G. M. Hannon. No. 1,340,767; May 18; v. 274; p. 530.
Fly-killing implement. G. B. Keplinger. No. 1,331,266; Feb. 17; v. 271; p. 459.
Fly-poisoning device. E. L. Watson. No. 1,328,986; Jan. 27; v. 270; p. 514.
Fly-screen, Roller. F. J. Baukus. No. 1,340,103; May 11; v. 274; p. 348.
Fly-swatter. B. O. Graham. No. 1,344,943; June 29; v. 275; p. 899.

Digitized by Google

Alphabetical list of inventions—Continued.

Fly-swatter. B. R. Jolly. No. 1,356,371; Oct. 19; v. 279; p. 471.
Fly-swatter. B. F. Kelso. No. 1,334,246; Mar. 16; v. 272; p. 503.
Fly-swatter. B. F. Kelso. No. 1,361,337; Dec. 7; v. 281; p. 71.
Fly-swatter. G. A. Moore. No. 1,354,775; Oct. 5; v. 279; p. 66.
Flycatcher. P. H. McGrath. No. 1,329,534; Feb. 3; v. 271; p. 36.
Flytrap. A. R. Anderson. No. 1,342,933; June 8; v. 275; p. 312.
Flytrap. A. Bayer and A. Klingele. No. 1,328,114; Jan. 13; v. 270; p. 292.
Flytrap. A. C. Byers and W. B. Fritse. No. 1,335,041; Mar. 30; v. 272; p. 760.
Flytrap. P. Curran. No. 1,333,470; Mar. 9; v. 272; p. 297.
Flytrap. C. M. Curry. No. 1,341,416; May 25; v. 274; p. 727.
Flytrap. G. J. Guertler. No. 1,353,233; Sept. 21; v. 278; p. 392.
Flytrap. C. P. Hasselgren. No. 1,358,150; Nov. 9; v. 280; p. 244.
Flytrap. C. H. Johnson. No. 1,338,084; Apr. 27; v. 278; p. 655.
Flytrap. F. Kulbaka. No. 1,359,998; Nov. 23; v. 280; p. 698.
Flytrap. W. J. Lee. No. 1,340,779; May 18; v. 274; p. 533.
Flytrap. T. J. McKay. No. 1,360,127; Nov. 23; v. 280; p. 724.
Flytrap. J. W. Skelton. No. 1,328,850; Jan. 27; v. 270; p. 497.
Flytrap. A. H. Strampe and J. H. Strahmann. No. 1,359,930; Nov. 23; v. 280; p. 685.
Flytrap. F. Swickard. No. 1,353,672; Sept. 21; v. 278; p. 480.
Flytrap. H. A. Teasdale. No. 1,361,417; Dec. 7; v. 281; p. 88.
Flytrap. F. O. Tibbetts. No. 1,338,113; Apr. 27; v. 278; p. 661.
Flytrap. J. Tokash. No. 1,352,562; Sept. 14; v. 278; p. 109.
Flytrap and garbage-can, Combined. L. J. Cereghino. No. 1,350,402; Aug. 24; v. 277; p. 613.
Flytrap, Cattle-. C. E. Merrell and E. E. Hall. No. 1,340,071; May 11; v. 274; p. 342.
Flytrap, Folding. J. A. Hassell. No. 1,359,060; Nov. 16; v. 280; p. 469.
Flying-machine. W. H. Allman. No. 1,327,514; Jan. 6; v. 270; p. 118.
Flying-machine. G. Cannistra. No. 1,332,801; Mar. 2; v. 272; p. 120.
Flying-machine. J. H. Carr. No. 1,349,942; Aug. 17; v. 277; p. 477.
Flying-machine. B. Bender. No. 1,359,566; Nov. 23; v. 280; p. 613.
Flying-machine. M. Beshenich. No. 1,361,810; Dec. 14; v. 281; p. 213.
Flying-machine. M. Fedders. No. 1,344,297; June 22; v. 275; p. 708.
Flying-machine. J. H. Freeman. No. 1,345,159; June 29; v. 275; p. 940.
Flying-machine. P. L. Harvey. No. 1,351,905; Sept. 7; v. 278; p. 39.
Flying-machine. G. R. Henry. No. 1,339,336; May 4; v. 274; p. 656.
Flying-machine. P. C. Hewitt. No. 1,350,454; Aug. 24; v. 274; p. 126.
Flying-machine. H. A. Hill. No. 1,330,321; Feb. 10; v. 271; p. 214.
Flying-machine. M. Lécuyer. No. 1,332,129; Feb. 24; v. 271; p. 642.
Flying machine. O. S. Lind. No. 1,338,025; Apr. 27; vol. 273; p. 644.
Flying-machine. C. Orsett. No. 1,362,436; Dec. 14; v. 281; p. 336.
Flying-machine. C. J. Ritter. No. 1,356,088; Oct. 19; v. 279; p. 415.
Flying-machine. A. B. Roney. No. 1,348,743; Aug. 3; v. 277; p. 118.
Flying-machine. I. L. Sloan. No. 1,328,211; Jan. 13; v. 270; p. 311.
Flying-machine. F. Stoklosa. No. 1,334,972; Mar. 30; v. 272; p. 747.
Flying-machine. W. P. Thompson. No. 1,351,976; Sept. 7; v. 278; p. 52.
Flying-machine. F. Vogelzang. No. 1,353,501; Sept. 21; v. 278; p. 444.
Flying-machine. F. B. Voraceh. No. 1,327,125; Jan. 6; v. 270; p. 46.
Flying-machine. H. O. Watts. No. 1,331,299; Feb. 17; v. 271; p. 465.
Flying-machine. J. W. Webb. No. 1,344,283; June 22; v. 275; p. 705.
Flying-machine. C. F. Wilcox. No. 1,336,669; Apr. 13; v. 273; p. 242.
Flying-machine. J. F. Wilkinson. No. 1,351,821; Sept. 7; v. 278; p. 21.
Flying-machine. C. N. Wisner. No. 1,358,487; Nov. 9; v. 280; p. 311.
Flying-machine. P. Yeso. No. 1,350,201; Aug. 17; v. 277; p. 528.
Flying-machine and bomb-dropper, Automatic. F. Stevens. No. 1,357,531; Nov. 2; v. 280; p. 62.
Flying-machine, Heavier-than-air. A. E. Royle. No. 1,340,914; May 25; v. 274; p. 629.
Flying-machine indicator. J. N. Reynolds. No. 1,351,588; Aug. 31; v. 277; p. 899.
Flying-machine, Multiplane. G. Caproni. No. 1,356,850; Oct. 26; v. 279; p. 612.
Flying-machine with revolving wings. A. Beurrier. No. 1,350,982; Aug. 24; v. 277; p. 725.
Flying-machines, Detachable stabilizing-fin for. M. Stupar. No. 1,350,948; Aug. 24; v. 277; p. 719.
Flying-machines, Driving mechanism for. M. F. Stupar. No. 1,357,260; Nov. 2; v. 280; p. 12.
Flying-machines, Hoisting device for. M. Stupar. No. 1,346,772; July 13; v. 276; p. 347.
Flying-machines, Landing-carriage for. G. Caproni. No. 1,345,833; July 6; v. 276; p. 99.
Flying-machines, Landing-gear for. M. F. Stupar. No. 1,342,138; June 1; v. 275; p. 103.
Flying-machines, Launching device for. M. Stupar. No. 1,350,947; Aug. 24; v. 277; p. 719.
Flying-machines, Parachute for. F. A. Berg. No. 1,329,359; Feb. 3; v. 271; p. 4.
Flying machines, Power-conserving air-channel propeller for. J. J. A. Miller. No. 1,338,516; Apr. 27; v. 278; p. 737.
Flying-machines, Propeller-gearing for. A. E. Zumwalt. No. 1,338,116; Apr. 27; v. 278; p. 662.
Flying-machines, Stabilizing. S. De Santis. No. 1,360,198; Nov. 23; v. 280; p. 737.
Flying-machines, Wing construction for. T. J. Kehoe. No. 1,349,770; Aug. 17; v. 277; p. 445.
Flying mechanism. F. F. Simons. No. 1,355,111; Oct. 5; v. 279; p. 131.
Flywheel-balancer. M. Machrol. No. 1,352,905; Sept. 14; v. 278; p. 268.
Flywheels, Foot-guard for. J. A. Secor. No. 1,333,135; Mar. 9; v. 272; p. 234.
Focusing-finder. S. G. Lalin. No. 1,331,269; Feb. 17; v. 271; p. 459.
Fog-light. R. C. Grady. No. 1,362,693; Dec. 21; v. 281; p. 438.
Folding and tape-applying machine. W. P. Clifford. No. 1,338,000; Apr. 27; v. 278; p. 639.
Folding box. P. A. Hoffman. No. 1,339,839; May 4; v. 274; p. 127.
Folding box. W. Ness. No. 1,346,839; July 20; v. 276; p. 419.
Folding box. E. E. Pinkerton. No. 1,337,368; Apr. 20; v. 273; p. 450.
Folding box. B. G. Richards. No. 1,335,128; Mar. 30; v. 272; p. 777.
Folding chair. J. L. Celane. No. 1,329,261; Jan. 27; v. 270; p. 574.
Folding chair. D. Evangelist. No. 1,341,050; May 25; v. 277; p. 624.
Folding chair. S. Fedor. No. 1,352,185; Sept. 7; v. 278; p. 90.
Folding chair. E. E. Fisher. No. 1,349,271; Aug. 10; v. 277; p. 274.
Folding chair. M. Schlegel. No. 1,342,650; June 8; v. 275; p. 255.
Folding chair. J. S. Zakszewski. No. 1,353,694; Sept. 21; v. 278; p. 484.
Folding chair, Automatic. J. W. Hardy. No. 1,330,185; Feb. 10; v. 271; p. 189.
Folding device. R. Astley. No. 1,346,109; July 13; v. 276; p. 216.
Folding-machine. W. J. Beattie. No. 1,341,409; May 25; v. 274; p. 725.
Folding-machine. H. B. Cooley. No. 1,332,288; Mar. 2; v. 272; p. 22.
Folding-machine. P. R Glass. No. 1,346,195; July 13; v. 276; p. 232.
Folding-machine. G. M. Kurnalian. No. 1,333,085; Mar. 9; v. 272; p. 225.
Folding-machine. H. R. Stanbon. No. 1,330,921; Feb. 17; v. 271; p. 395.
Folding-machines, Sheet-guide for. E. Scheick. No. 1,343,791; June 15; v. 275; p. 544.
Folding partition lock. J. T. Fairhurst. No. 1,351,844; Sept. 7; v. 278; p. 26.
Folding receptacle. L. M. Dunn. No. 1,331,006; Feb. 17; v. 271; p. 412.
Folding seat. N. Litchfield. No. 1,354,911; Oct. 5; v. 279; p. 93.
Folding seat. A. E. Rhoades. No. 1,348,375; Aug. 3; 277; p. 48.
Folding table. W. T. Braxton. No. 1,334,434; Mar. 23; v. 272; p. 585.
Folding table. H. F. Havens, Sr. No. 1,339,389; May 11; v. 274; p. 212.
Folding table. E. F. Mitchell. No. 1,349,687; Aug. 17; v. 277; p. 429.
Folding table. T. G. Spencer. No. 1,331,538; Feb. 24; v. 271; p. 531.
Folding table and cabinet, Combination. C. H. Steere. No. 1,363,062; Dec. 21; v. 281; p. 510.

Digitized by Google

Alphabetical list of inventions—Continued.

Folding universal table. A. W. Lee. No. 1,340,065; May 11; v. 274; p. 340.
Food, Apparatus for cooking and drying canned. M. H. Stuart. No. 1,335,136; Mar. 30; v. 272; p. 778.
Food beverage and making same. J. L. Kellogg and B. Kazmann. No. 1,348,999; Aug. 10; v. 277; p. 220.
Food beverage and making same. J. L. Kellogg and B. Kazmann. No. 1,349,000; Aug. 10; v. 277; p. 220.
Food-carrier, adjustable. G. W. Ferdon. No. 1,362,933; Dec. 21; v. 281; p. 483.
Food compound. F. P. McColl and W. W. Willison. No. 1,335,383; Mar. 30; v. 272; p. 824.
Food compound and preparing same. A. S. Wahl. No. 1,350,756; Aug. 24; v. 277; p. 683.
Food curing and smoking apparatus. R. R. Casey. No. 1,337,974; Apr. 20; v. 273; p. 566.
Food-cutter. E. E. Punzelt. No. 1,337,955; Apr. 20; v. 273; p. 562.
Food-cutting device. J. Palinski. No. 1,348,821; Aug. 3; v. 277; p. 132.
Food delivering and ordering apparatus. W. F. McGlaughlin. No. 1,360,657; Nov. 30; v. 280; p. 896.
Food-dispensing apparatus. W. L. White. No. 1,330,104; Feb. 10; v. 271; p. 174.
Food-drying apparatus. D. Lenzi. No. 1,339,032; May 4; v. 274; p. 71.
Food-heater. G. M. Lear. No. 1,357,100; Oct. 26; v. 279; p. 660.
Food, Machine for molding tablets of compressed. W. H. Day. No. 1,341,226; May 25; v. 274; p. 690.
Food materials, Apparatus for treating. J. G. Goodhue and P. B. Sadtler. No. 1,358,309; Nov. 9; v. 280; p. 275.
Food or other substance, Heat-treating. N. H. Fooks. No. 1,354,962; Oct. 5; v. 279; p. 102.
Food preparation and making same. F. E. Coombs. No. 1,363,193; Dec. 21; v. 281; p. 535.
Food preparation and making same. A. Schwarcman. No. 1,342,827; June 8; v. 275; p. 291.
Food product. M. Bloch. No. 1,355,731; Oct. 12; v. 279; p. 304.
Food product. N. C. Fowler, Jr. No. 1,349,753; Aug. 17; v. 277; p. 442.
Food product and making same. F. E. Kinsman. No. 1,344,638; June 29; v. 275; p. 841.
Food product and making same. R. D. McDill. No. 1,361,079; Dec. 7; v. 281; p. 20.
Food product and making same. J. F. Rumsey. No. 1,348,186; Aug. 3; v. 277; p. 10.
Food product and preparing same. F. G. Lorenzen. 1,358,960; Nov. 16; v. 280; p. 450.
Food product, Canning. J. F. Tronconi. No. 1,348,824; Aug. 3; v. 277; p. 133.
Food products and manufacturing same. R. S. Fleming. No. 1,361,239; Dec. 7; v. 281; p. 51.
Food products, Apparatus for dehydrating. F. L. Nichols. No. 1,351,118; Aug. 31; v. 277; p. 814.
Food products, Apparatus for packing. N. R. Vail and W. B. Coberly. No. 1,337,374; Apr. 20; v. 273; p. 451.
Food products, Device and mechanism for depositing coating upon. J. J. Smith. No. 1,346,270; July 13; v. 276; p. 248.
Food products, Manufacturing. R. S. Fleming. No. 1,361,238; Dec. 7; v. 281; p. 51.
Food, Stock. W. G. Brown. No. 1,360,174; Nov. 23; v. 280; p. 733.
Food stuffs, Machine for drying. N. C. Hero. No. 1,358,313; Nov. 9; v. 280; p. 276.
Food, Treating. A. Babendreer. No. 1,327,220; Jan. 6; v. 270; p. 64.
Foods from kitchen waste, Manufacture of animal. R. L. D. Taylor. No. 1,354,068; Sept. 28; v. 278; p. 602.
Foot, Amputation artificial. P. H. Willis. No. 1,356,251; Oct. 19; v. 279; p. 448.
Foot-arch support. W. H. Robson and A. Powell. No. 1,346,059; July 6; v. 276; p. 144.
Foot-mat, Metallic. J. S. Dee. No. 1,343,356; June 15; v. 275; p. 458.
Foot-measuring device, Collapsible. H. B. Dawkins. No. 1,356,489; Oct. 19; v. 279; p. 493.
Foot-operable impression throw-off. J. W. Bernet. No. 1,350,272; Aug. 17; v. 277; p. 541.
Foot-operated switch. J. C. Rundback. No. 1,355,573; Oct. 12; v. 279; p. 274.
Foot-piece. E. A. Wolfe. No. 1,333,889; Mar. 16; v. 272; p. 436.
Foot, Pneumatic. L. and C. B. Dodge. No. 1,352,942; Sept. 14; v. 278; p. 275.
Foot, Pneumatic. L. and C. B. Dodge. No. 1,352,943; Sept. 14; v. 278; p. 275.
Foot-switch, Current-regulating. A. Papini. No. 1,335,019; Mar. 30; v. 272; p. 756.
Foot-throttle controlling mechanism. F. C. Smith. No. 1,343,378; June 15; v. 275; p. 462.
Foot-treating appliance. H. A. Post. No. 1,342,597; June 8; v. 275; p. 245.
Foot-warmer. J. A. Mata. No. 1,348,506; Aug. 3; v. 277; p. 73.
Footrest. J. Dunlap. No. 1,343,119; June 8; v. 275; p. 349.
Footrest. A. M. Hunter. No. 1,344,402; June 22; v. 275; p. 728.
Footrest, Adjustable. W. E. Kingsford. No. 1,337,919; Apr. 20; v. 273; p. 555.
Footrest, Collapsible. E. C. De Smet. No. 1,327,706; Jan. 13; v. 270; p. 216.
Footrest, Lounging-. M. Goldstein. No. 1,362,692; Dec. 21; v. 281; p. 438.
Footwear. R. L. Campbell. No. 1,363,640; Dec. 28; v. 281; p. 662.
Footwear. S. D. Fairweather. No. 1,331,844; Feb. 24; v. 271; p. 589.
Footwear. L. Hofmeister. No. 1,356,717; Oct. 26; v. 279; p. 585.
Footwear. L. Trolle. No. 1,337,983; Apr. 20; v. 273; p. 567.
Footwear and making same. H. Bullock. No. 1,356,961; Oct. 26; v. 279; p. 633.
Footwear and making same. J. J. Byers. No. 1,361,961; Dec. 14; v. 281; p. 243.
Footwear, Apparatus for treating. N. M. Hopkins. No. 1,340,544; May 18; v. 274; p. 489.
Footwear, Box-toe material for. G. Freytag. No. 1,361,246; Dec. 7; v. 281; p. 52.
Footwear, Combined shank and arch-support for. J. Steinbrecher. No. 1,347,061; July 20; v. 276; p. 463.
Footwear, Last for. R. B. Price. No. 1,342,970; June 8; v. 275; p. 319.
Footwear, Manufacture of hard toe-blocks for. G. Verhoogen. No. 1,339,529; May 11; v. 274; p. 239.
Footwear, Shock-absorber for. C. H. Shamo. No. 1,332,070; Feb. 24; v. 271; p. 631.
Force-feed lubricator. B. H. Skelly. No. 1,359,116; Nov. 16; v. 280; p. 479.
Forced-feed and steam generator. R. A. Mitchell and F. A. Emerick. No. 1,331,459; Feb. 17; v. 271; p. 495.
Forceps, Rubber-dam-clamp. J. W. Ivory. No. 1,349,767; Aug. 17; v. 277; p. 445.
Forceps, Surgical. C. J. Sigler. No. 1,353,430; Sept. 21; v. 278; p. 430.
Forceps, Surgical. C. Dederer. No. 1,356,048; Oct. 19; v. 279; p. 407.
Forceps, Veterinary. A. Fiscus. No. 1,332,118; Feb. 24; v. 271; p. 639.
Forge, Oil-burning. C. C. Hansen. No. 1,361,329; Dec. 7; v. 281; p. 70.
Forging. W. Klocke. No. 1,338,779; May 4; v. 274; p. 24.
Forging-machine. L. J. Berkeley. No. 1,337,480; Apr. 20; v. 273; p. 461.
Forging-machine roll. L. J. Berkeley. No. 1,360,261; Nov. 30; v. 280; p. 818.
Forgings, Apparatus for farming. E. J. Paque. No. 1,352,911; Sept. 14; v. 278; p. 269.
Fork. H. E. Denman. No. 1,343,811; June 15; v. 275; p. 548.
Fork. S. D. and C. W. Robison. No. 1,355,001; Oct. 5; v. 279; p. 109.
Fork holder, Pickle-. C. A. Lewis. No. 1,327,437; Jan. 6; v. 270; p. 103.
Fork holder, Pickle-. C. A. Lewis. No. 1,327,439; Jan. 6; v. 270; p. 104.
Fork, Pickle-. C. A. Lewis. No. 1,327,438; Jan. 6; v. 270; p. 104.
Fork, rake, and knife, Combined. J. Miller. No. 1,337,939; Apr. 20; v. 273; p. 559.
Fork, Tuning-. W. I. Kirk. No. 1,328,838; Jan. 27; v. 270; p. 494.
Form, Bag. A. M. Bates. No. 1,333,374; Mar. 9; v 272; p. 279.
Form, Blank. H. M. Branson. No. 1,339,942; May 11; v. 274; p. 318.
Form, Coil-winding. S. Rogers. No. 1,347,521; July 27; v. 276; p. 610.
Form, Collapsible. L. O. Lamkin and J. H. Berghaus, Jr. No. 1,327,333; Jan. 6; v. 270; p. 84.
Form, Collapsible culvert-. G. W. Storms. No. 1,344,775; June 29; v. 275; p. 867.
Form, Dress-. F. B. Granger. No. 1,340,950; May 25; v. 274; p. 636.
Form, Dress-. M. Luery and B. S. Nelson. No. 1,351,179; Aug. 31; v. 277; p. 826.
Form, Dress-. M. Luery and B. S. Nelson. No. 1,351,180; Aug. 31; v. 277; p. 826.
Form, Garment. D. H. Shapiro. (Reissue.) No. 14,981; Nov. 9; v. 280; p. 353.
Form, Garment-. E. C. Wakefield. No. 1,332,583; Mar. 2; v. 272; p. 78.
Form, Milliner's steaming-. M. L. Argo. No. 1,342,147; June 1; v. 275; p. 105.
Form, Necktie-. F. Leites. No. 1,356,928; Oct. 26; v. 279; p. 627.
Form, Record-. G. Wilmot. No. 1,339,995; May 11; v. 274; p. 328.
Form, Sock-drying. C. J. Wadsworth. No. 1,332,368; Mar. 2; v. 272; p. 88.
Form, Tipping-. T. L. Harkins. No. 1,358,729; Nov. 16; v. 280; p. 404.
Forms, Manufacture of metal. W. Snyder. No. 1,352,845; Sept. 14; v. 278; p. 256.
Formation-tank. D. H. Fleming. No. 1,348,000; July 27; v. 276; p. 706.

Digitized by Google

Forming or finishing top lifts, Method of and apparatus for. F. R. Akerley. No. 1,337,990; Apr. 27; v. 278; p. 637.
Forming shaped articles from precipitated skin-like compounds. C. E. Swett. No. 1,348,459; Aug. 3; v. 277; p. 64.
Fortress, Floating. J. Ortiz. No. 1,350,667; Aug. 24; v. 277; p. 665.
Foundation extension. F. Rapp. No. 1,331,461; Feb. 17; v. 271; p. 496.
Foundry-flask. H. C. Drumm. No. 1,335,564; Mar. 30; v. 272; p. 858.
Foundry-flask handle. H. C. Drumm. No. 1,335,565; Mar. 30; v. 272; p. 858.
Foundry-mixer. H. S. Simpson. No. 1,337,333; Apr. 20; v. 273; p. 444.
Foundry molding-machine. W. M. O'Keefe. No. 1,347,119; July 20; v. 276; p. 474.
Foundry practice. A. Haase. No. 1,353,472; Sept. 21; v. 278; p. 438.
Fountain: *See*—
Drinking-fountain. Hog-watering fountain.
Fountain and feeder, Stock and poultry. S. Caspe. No. 1,343,349; June 15; v. 275; p. 457.
Fountain, Drinking-. P. W. Blair. No. 1,339,159; May 4; v. 274; p. 94.
Fountain, Drinking-. W. E. Hinsdale. No. 1,329,601; Feb. 3; v. 271; p. 48.
Fountain-humidor-box-lid support. W. A. McAneny and D. T. May. No. 1,327,872; Jan. 13; v. 270; p. 247.
Fountain-pen cleaner. C. W. Garver. No. 1,343,621; June 15; v. 275; p. 510.
Fountain-pen clip. R. J. Guzdar. No. 1,356,204; Oct. 19; v. 279; p. 439.
Fountain, Portable hog-. C. Siebring. No. 1,340,085; May 11; v. 274; p. 344.
Fountain, Sanitary drinking-. W. F. Curran. No. 1,339,322; May 4; v. 274; p. 124.
Fountains, Mixing apparatus for soda-. D. S. Kepler. No. 1,343,829; June 15; v. 275; p. 552.
Fractionating compound substances containing ingredients of closely-related solubility. A. Seidenberg. No. 1,340,186; May 18; v. 274; p. 421.
Fracture apparatus. W. S. Crouch. No. 1,334,596; Mar. 23; v. 272; p. 616.
Frame: *See*—
Advertising-frame.
Automatically-operable Automobile-top frame.
Balanced top-frame.
Bed-frame.
Car-frame.
Car end frame.
Comfort-frame.
Curtain-frame.
Curtain and shade frame.
Desk and seat frame.
Door-frame.
Drying-frame.
Embroidery-frame.
Engine-frame.
Engine and vehicle frame.
Fabric-frame.
Field-magnet frame.
Filter-press frame.
Fly-frame.
Gas-range frame.
Glass-cutting frame.
Gun-carriage frame.
Hat-frame.
Hay and grain stacking frame.
Heddle-frame.
Implement-frame.
Kite-frame.
Lamp-resistance frame.
Lathe-frame.
Lens-frame.
Lighting-fixture frame.
Loom tube-frame.
Magneto-frame.
Malling-frame.
Mattress-frame.
Mop-frame.
Motorcycle spring-frame.
Net-frame.
Ophthalmic-lens frame.
Packing-frame.
Paper wreath-frame.
Photographic-negative-developing frame.
Picture-frame.
Printing-frame.
Radiator-frame.
Railway side frame.
Reamer-frame.
Saw-frame.
Screen-frame.
Sheet-metal frame.
Side frame.
Skin-stretching frame.
Spinning-frame.
Suitcase-frame.
Tent-frame.
Tractor-frame.
Truck-frame.
Truck side frame.
Tube-frame.
Vehicle-frame.
Wagon-frame.
Window-frame.
Frame. A. S. Ford. No. 1,331,009; Feb. 17; v. 271; p. 413.
Frame. M. Krantz. No. 1,356,375; Oct. 19; v. 279; p. 472.
Frame-actuating device. J. Urbanels. No. 1,338,267; Apr. 27; v. 273; p. 690.
Frame-adjuster. C. E. Holt. No. 1,358,210; Nov. 9; v. 280; p. 255.
Frame-corner holder. J. M. Richens. No. 1,334,553; Mar. 23; v. 272; p. 608.
Framing-machine. J. B. Dunkin. No. 1,356,490; Oct. 19; v. 279; p. 494.
Frangible vessels and cups therefor, Casing for. G. P. Altenberg. No. 1,354,711; Oct. 5; v. 279; p. 53.
Franking-machine, Automatic. A. J. Shircliffe. No. 1,340,987; May 25; v. 274; p. 644.
Fraud-preventing means for commercial papers. W. A. Tackett. No. 1,355,286; Oct. 12; v. 279; p. 219.
Freight-stacking elevator, Portable. G. F. Nicholson and G. Whitestone. No. 1,340,458; May 18; v. 274; p. 472.
Friction and flexing apparatus for testing materials. A. E. Jury. No. 1,344,301; June 22; v. 275; p. 709.
Friction band-brake. F. E. Williams. No. 1,353,370; Sept. 21; v. 278; p. 418.
Friction-drive mechanism. J. Marette. No. 1,363,338; Dec. 28; v. 281; p. 604.
Friction-facing on transmission-belting. R. S. Kinnaird. No. 1,341,470; May 25; v. 274; p. 788.
Friction-holder. W. A. Seek. No. 1,362,641; Dec. 21; v. 281; p. 428.
Friction shock-absorbing mechanism. J. F. O'Connor. No. 1,363,006; Dec. 21; v. 281; p. 499.
Friction shock-absorbing mechanism. J. F. O'Connor. No. 1,363,007; Dec. 21; v. 281; p. 499.
Friction-support for lids. I. F. Burton. No. 1,343,347; June 15; v. 275; p. 456.
Friction transmission. G. L. Jacques. No. 1,354,486; Oct. 5; v. 279; p. 8.
Frog-box. G. T. Parr. No. 1,356,400; Oct. 19; v. 279; p. 477.
Frog foot-guard. G. W. Vaughan. No. 1,340,582; May 18; v. 274; p. 496.
Frog, Hard-center crossing-. C. A. Psilander. No. 1,327,842; Jan. 13; v. 270; p. 241.
Frost-casing. J. R. Fitzpatrick. No. 1,340,332; May 18; v. 274; p. 448.
Fruit according to size, Machine for assorting. E. S. Porter. No. 1,342,571; June 8; v. 275; p. 241.
Fruit and vegetable pickers, Stem-clipping device for. W. A. J. Hoisington. No. 1,347,098; July 20; v. 276; p. 470.
Fruit and vegetable press. J. Sollazzo. No. 1,354,517; Oct. 5; v. 279; p. 14.
Fruit and vegetable pulping machine. J. R. Dostal. No. 1,343,439; June 15; v. 275; p. 474.
Fruit and vegetable pulping machine. C. E. Steere. No. 1,349,739; Aug. 17; v. 277; p. 439.
Fruit and vegetable washer. A. R. Thompson. No. 1,352,393; Sept. 7; v. 278; p. 130.
Fruit, Apparatus for drying. G. T. Stamm. No. 1,346,986; July 20; v. 276; p. 449.
Fruit, Apparatus for removing stones from. F. Robbins. No. 1,357,004; Oct. 26; v. 279; p. 641.
Fruit, Apparatus for stoning and splitting. J. J. Griffin. No. 1,334,449; Mar. 23; v. 272; p. 588.
Fruit by weight, Mechanism for assorting. B. F. Tussing. No. 1,349,304; Aug. 10; v. 277; p. 281.
Fruit-case fastener. E. Morrison. No. 1,359,823; Nov. 23; v. 280; p. 663.
Fruit-cases, Clip for attaching straps to. E. Morrison. No. 1,355,997; Oct. 19; v. 279; p. 396.
Fruit-cleaning machine. A. O. Moe. No. 1,357,704; Nov. 2; v. 280; p. 113.
Fruit-collector. A. Druze. No. 1,361,029; Dec. 7; v. 281; p. 10.
Fruit-coring machine. E. J. Lewis. No. 1,362,807; Dec. 21; v. 281; p. 461.
Fruit-crusher. S. Santilli. No. 1,352,537; Sept. 14; v. 278; p. 194.
Fruit-crusher and juice extractor. A. Falcone. No. 1,356,199; Oct. 19; v. 279; p. 438.
Fruit-cutter. D. H. Elmer. No. 1,312,207; June 1; v. 275; p. 117.
Fruit cutting and pitting machine. K. G. Moltzner. No. 1,334,162; Mar. 16; v. 272; p. 488.
Fruit cutting and pitting machine. C. Oka. No. 1,339,364; May 4; v. 274; p. 132.
Fruit-drier. A. H. McIntyre. No. 1,327,486; Jan. 6; v. 270; p. 112.
Fruit-drier. F. D. Maltman. No. 1,331,658; Feb. 24; v. 271; p. 553.
Fruit-drier, Sun. S. Barnard and H. H. Gates. No. 1,362,216; Dec. 14; v. 281; p. 294.
Fruit for drying, Machine for preparing. F. E. Lester. No. 1,345,607; July 6; v. 276; p. 55.
Fruit-grader. E. S. Lautner. No. 1,337,924; Apr. 20; v. 273; p. 556.
Fruit-grader. W. I. Winchester. No. 1,336,059; Apr. 6; v. 273; p. 67.
Fruit grader and sizer. J. F. Barghausen. No. 1,338,276; Apr. 27; v. 273; p. 691.
Fruit-grading machine. M. W. Bird. No. 1,352,780; Sept. 14; v. 278; p. 243.
Fruit-grading machine. H. F. Davidson and W. F. Wheeler. No. 1,358,061; Nov. 9; v. 280; p. 226.
Fruit-jar. W. C. and C. R. Martineau. No. 1,336,867; Apr. 6; v. 273; p. 125.
Fruit-jar. S. S. Sager. No. 1,356,224; Oct. 19; v. 279; p. 443.
Fruit-jar. A. L. Schram. No. 1,353,278; Sept. 21; v. 278; p. 400.
Fruit-jars, Immerser for. R. J. Beler. No. 1,342,321; June 1; v. 275; p. 138.
Fruit-jars, Sealing attachment for. W. H. F. Young. No. 1,346,735; July 13; v. 276; p. 339.
Fruit-juice, Mechanism for. H. Baulig. No. 1,336,719; Apr. 13; v. 273; p. 252.
Fruit-juice, Treating. H. Baulig. No. 1,336,720; Apr. 13; v. 273; p. 252.
Fruit-juice, Treating. M. O. Johnson. No. 1,362,868; Dec. 21; v. 281; p. 472.
Fruit-juices, Refrigerating-concentrator for. W. H. Bigelow. No. 1,330,160; Feb. 10; v. 271; p. 184.

Digitized by Google

Fruit-juices, Treating. F. L. Dunlap and R. A. Kuever. No. 1,338,684; May 4; v. 274; p. 7.
Fruit, Machine for extracting juice from. J. Levin. No. 1,349,839; Aug. 17; v. 277; p. 458.
Fruit, &c., Mode of and means for grading. N. S. McNab. No. 1,346,835; July 20; v. 276; p. 418.
Fruit packer and shaper. W. H. Taylor. No. 1,360,471; Nov. 30; v. 280; p. 859.
Fruit-peel drier. W. I. Winchester. No. 1,345,301; June 29; v. 275; p. 968.
Fruit-peeler. W. Sullivan. No. 1,352,325; Sept. 7; v. 278; p. 117.
Fruit-picker. H. L. Brockschmidt. No. 1,362,471; Dec. 14; v. 281; p. 343.
Fruit-picker. C. Casperson. No. 1,363,456; Dec. 28; v. 281; p. 626.
Fruit-picker. A. L. Funk. No. 1,330,699; Feb. 10; v. 271; p. 284.
Fruit-picker. S. B. Morison. No. 1,336,648; Apr. 13; v. 273; p. 288.
Fruit-picker. L. S. Thorness. No. 1,329,481; Feb. 3; v. 271; p. 26.
Fruit-picker's platform. J. W. Kirby. No. 1,362,944; Dec. 21; v. 281; p. 486.
Fruit-picking bag. A. W. Sharrard. No. 1,354,220; Sept. 28; v. 278; p. 633.
Fruit-picking device. F. Ansley. No. 1,334,643; Mar. 23; v. 272; p. 624.
Fruit pitter and cutter. W. N. Risdon. No. 1,339,367; May 4; v. 274; p. 132.
Fruit-pitting machine. A. V. Jennings. No. 1,361,765; Dec. 7; v. 281; p. 157.
Fruit sorting or grading apparatus. E. D. Clark. No. 1,356,852; Oct. 26; v. 279; p. 612.
Fruit-spreading machine. F. L. Emerson. No. 1,332,866; Mar. 2; v. 272; p. 131.
Fruit syrup, Making. M. O. Johnson. No. 1,362,870; Dec. 21; v. 281; p. 473.
Fruits, vegetables, &c., Method of and apparatus for drying. G. H. Benjamin. No. 1,339,092; May 4; v. 274; p. 83.
Fruits without stripping off the strings, Method of and machines for preparing leguminous. J. A. Olsen. No. 1,338,035; Apr. 27; v. 273; p. 646.
Fruited flour and making same. N. C. Fowler, Jr. No. 1,333,967; Mar. 16; v. 272; p. 451.
Fuel and air supplying apparatus. W. C. Lindsay. No. 1,340,465; Aug. 10; v. 277; p. 312.
Fuel and producing same. G. H. Fritzsche. No. 1,342,799; June 8; v. 275; p. 286.
Fuel, Apparatus for burning. A. Doble. No. 1,349,876; Aug. 17; v. 277; p. 465.
Fuel, Apparatus for burning solid. A. Lanz. No. 1,327,765; Jan. 13; v. 270; p. 227.
Fuel, Apparatus for feeding pulverized. P. Meider, Jr. No. 1,328,750; Jan. 20; v. 270; p. 448.
Fuel, Apparatus for the recuperation of waste. F. Liond. No. 1,334,765; Mar. 23; v. 272; p. 647.
Fuel, Apparatus for treating. W. L. McLaughlin. No. 1,336,364; Apr. 6; v. 273; p. 125.
Fuel, Artificial. A. H. Ege. No. 1,357,627; Nov. 2; v. 280; p. 81.
Fuel-burner. N. C. Davison. No. 1,338,679; May 4; v. 274; p. 6.
Fuel-burner. A. Doble. No. 1,351,944; Sept. 7; v. 278; p. 46.
Fuel-burner. J. A. Doble. No. 1,332,616; Mar. 2; v. 272; p. 85.
Fuel-burner. J. R. Smith. No. 1,349,790; Aug. 17; v. 277; p. 449.
Fuel-burner control. J. A. Doble. No. 1,332,615; Mar. 2; v. 272; p. 84.
Fuel burner, Liquid-. W. Welshausen. No. 1,334,006; Mar. 16; v. 272; p. 459.
Fuel-burner system, Electrically-driven. J. A. Doble. No. 1,350,041; Nov. 16; v. 280; p. 465.
Fuel, Burning. H. H. Hurt. No. 1,329,300; Jan. 27; v. 270; p. 581.
Fuel-burning apparatus. A. Doble. No. 1,340,383; May 18; v. 274; p. 458.
Fuel-burning apparatus. E. C. Jacobsen. No. 1,361,263; Dec. 7; v. 281; p. 56.
Fuel-burning device, Pulverized. J. Dickson. No. 1,349,148; Aug. 10; v. 277; p. 250.
Fuel combustion. C. H. Ridderstedt. No. 1,328,296; Jan. 20; v. 270; p. 363.
Fuel, Combustion of. W. A. Bone, J. W. Wilson, and C. D. McCourt. No. 1,349,040; Aug. 10; v. 277; p. 228.
Fuel, Composite motor-. A. Hayes. No. 1,338,982; May 4; v. 274; p. 61.
Fuel consumption, Apparatus for indicating. B. M. Graybill. No. 1,328,920; Jan. 27; v. 270; p. 511.
Fuel, Device for conserving. W. O. Wood. No. 1,349,482; Aug. 10; v. 277; p. 315.
Fuel dispenser and spreader. J. Erwin. No. 1,340,028; May 11; v. 274; p. 334.
Fuel, Economization of hydrocarbon-engine. F. Luke. No. 1,339,465; May 11; v. 274; p. 227.
Fuel-economizer. F. H. Harriman. No. 1,334,952; Mar. 30; v. 272; p. 743.
Fuel-economizer. J. F. Kendall. No. 1,333,116; Mar. 9; v. 272; p. 280.
Fuel-economizer. J. P. McMahon. No. 1,342,337; June 1; v. 275; p. 141.
Fuel-feed device, Vacuum. C. S. Burton. No. 1,348,084; July 27; v. 276; p. 723.
Fuel-feed device, Vacuum. J. E. Genn. No. 1,338,008; Apr. 27; v. 273; p. 641.
Fuel-feed device, Vacuum. W. H. Muzzy. No. 1,335,792; Apr. 6; v. 273; p. 17.
Fuel-feed system. F. E. Edwards. No. 1,353,949; Sept. 28; v. 278; p. 577.
Fuel-feed system. C. F. Green. No. 1,346,196; July 13; v. 276; p. 232.
Fuel-feed system. C. F. Green. No. 1,352,128; Sept. 7; v. 278; p. 79.
Fuel-feed system. W. H. Winslow. No. 1,348,916; Aug. 10; v. 277; p. 204.
Fuel-feed system, Vacuum. L. A. Shealy. No. 1,362,150; Dec. 14; v. 281; p. 280.
Fuel feeder and cut-off. C. C. Lillibridge. No. 1,334,251; Mar. 16; v. 272; p. 504.
Fuel feeding and combustion control. J. M. W. Kitchen. No. 1,331,774; Feb. 24; v. 271; p. 575.
Fuel-feeding apparatus. A. Lany. No. 1,327,764; Jan. 13; v. 270; p. 227.
Fuel-feeding apparatus for gas-producers. J. F. Rogers, J. S. McClimon, and R. Wetherill, Jr. No. 1,331,785; Feb. 24; v. 271; p. 577.
Fuel-feeding device. H. R. Saxon and G. Ganzert. No. 1,361,621; Dec. 7; v. 281; p. 129.
Fuel-feeding mechanism, Automatic. J. Heberling. No. 1,348,414; Aug. 3; v. 277; p. 56.
Fuel-feeding system. C. F. Green. No. 1,348,406; Aug. 3; v. 277; p. 55.
Fuel, Fluid-pressure apparatus for burning powdered. P. A. Leonard, M. F. Maloney, and E. Fandrich. No. 1,338,454; Apr. 27; v. 273; p. 724.
Fuel, Gas-generator and combustion-chamber for pulverized. T. Clouston. No. 1,344,333; June 22; v. 275; p. 715.
Fuel-heater. A. Génault. No. 1,345,762; July 6; v. 276; p. 85.
Fuel-heater, Electric. L. Reichold. No. 1,328,546; Jan. 20; v. 270; p. 411.
Fuel-heating device. A. W. Eastwood. No. 1,332,327; Mar. 2; v. 272; p. 29.
Fuel-line lock. R. E. Bird. No. 1,346,480; July 13; v. 276; p. 289.
Fuel machine, Artificial-. J. Schaub. No. 1,340,463; May 18; v. 274; p. 478.
Fuel, Machine for manufacturing. S. J. Franklin. No. 1,356,759; Oct. 26; v. 279; p. 593.
Fuel, Manufacturing gaseous. J. R. Rose. No. 1,339,225; May 4; v. 274; p. 107.
Fuel, Method and means for feeding powdered. W. M. Baxter. No. 1,355,444; Oct. 12; v. 279; p. 249.
Fuel-mixer. J. Duffy. No. 1,347,997; July 27; v. 276; p. 705.
Fuel-mixer. J. R. Hensley. No. 1,333,978; Mar. 16; v. 272; p. 453.
Fuel-mixer. P. B. Hunt. No. 1,361,260. Dec. 7; v. 281; p. 55.
Fuel-mixer. G. F. Ritter and H. C. Tillotson. No. 1,351,126; Aug. 31; v. 277; p. 816.
Fuel mixer, Gaseous-. E. Camp. No. 1,327,699; Jan. 13; v. 270; p. 214.
Fuel-mixing apparatus, Hydropneumatic. J. W. Duntley. No. 1,357,039; Oct. 26; v. 279; p. 648.
Fuel-mixing regulator, Automatic. A. A. Loetscher. No. 1,350,976; Aug. 24; v. 277; p. 724.
Fuel mixture, Controlling proportions of pulverized-. W. E. Harvey. No. 1,348,561; Aug. 3; v. 277; p. 84.
Fuel-mixture vaporizing and heating device. W. W. Grant. No. 1,359,083; Nov. 23; v. 280; p. 695.
Fuel, Motor-. A. Hayes. No. 1,361,153; Dec. 7; v. 281; p. 34.
Fuel-oil burner. C. Korzeniewski and S. Chojnacki. No. 1,327,763; Jan. 13; v. 270; p. 227.
Fuel-oil burner. T. F. Krieg. No. 1,339,358; May 4; v. 274; p. 131.
Fuel-oil burner. I. C. Lacey. No. 1,363,131; Dec. 21; v. 281; p. 523.
Fuel-pipe lock device. F. Vogelzang. No. 1,346,774; July 13; v. 276; p. 348.
Fuel, Recording-machine for liquid. F. Evans. No. 1,348,791; Aug. 3; v. 277; p. 127.
Fuel-regulating device. J. V. Giesler. No. 1,330,700; Feb. 10; v. 271; p. 285.
Fuel-regulator. R. H. Irving. No. 1,334,612; Mar. 23; v. 272; p. 618.
Fuel-regulator. H. E. Reeve. (Reissue.) No. 14,894; June 22; v. 275; p. 771.
Fuel-regulator. H. E. Reeve. (Reissue.) No. 14,895; June 22; v. 275; p. 772.
Fuel-reserve-supply system. F. Jerdone, Jr. No. 1,357,986; Nov. 9; v. 280; p. 211.
Fuel-reserve-supply system. F. Jerdone, Jr. No. 1,357,987; Nov. 9; v. 280; p. 211.
Fuel-reserve-supply system. F. Jedrone, Jr. No. 1,357,988; Nov. 9; v. 280; p. 211.
Fuel-reserve tank. J. J. Sullivan. No. 1,344,738; June 29; v. 275; p. 860.

Digitized by Google

Alphabetical list of inventions—Continued.

Fuel-reservoir. J. S. Brennan. No. 1,343,343; June 15; v. 275; p. 455.
Fuel-saver. W. G. Gillespie. No. 1,353,740; Sept. 21; v. 278; p. 493.
Fuel-saver. J. F. Knock. No. 1,351,855; Sept. 7; v. 278; p. 28.
Fuel-saver. C. Wolff. No. 1,348,919; Aug. 10; v. 277; p. 204.
Fuel-saver and smoke-consumer. J. L. Webster. No. 1,355,370; Oct. 12; v. 279; p. 235.
Fuel-saver, Automatic. C. A. Norall. No. 1,353,664; Sept. 21; v. 278; p. 478.
Fuel-saving apparatus. M. Wolfe. No. 1,348,918; Aug. 10; v. 277; p. 204.
Fuel-saving device. E. E. Ward. No. 1,352,043; Sept. 7; v. 278; p. 64.
Fuel, Solidified. J. M. Kessler. No. 1,329,610; Feb. 3; v. 271; p. 50.
Fuel-supply apparatus. W. S. Guthrie. No. 1,359,592; Nov. 23; v. 280; p. 618.
Fuel-supply system. M. Parnes. No. 1,341,515; May 25; v. 274; p. 746.
Fuel-tank. J. L. Day. No. 1,352,792; Sept. 14; v. 278; p. 246.
Fuel-tank, War-aeroplane. G. J. Murdock. No. 1,349,290; Aug. 10; v. 277; p. 278.
Fuel, Temperature-controlling device for. C. W. Johnson and T. G. Lamb. No. 1,333,546; Mar. 9; v. 272; p. 311.
Fuel, Utilizing. H. Rodman. No. 1,334,405; Mar. 23; v. 272; p. 580.
Fuel vaporizer. J. Pinal. No. 1,333,573; Mar. 9; v. 272; p. 316.
Fuel with high efficiency, Process and apparatus for burning gaseous. T. J. Stephens. No. 1,343,098; June 8; v. 275; p. 345.
Fuels and light paraffin-oils from shale; and benzene, toluene, and solvent naphtha from coal, Obtaining motor-. E. W. Thurlow. No. 1,343,100; June 8; v. 275; p. 345.
Fuels, Apparatus for firing with pulverized or breeze-formed. C. A. A. Westerberg. No. 1,344,666; June 29; v. 275; p. 846.
Fulcrum, Brake-beam. A. H. Peycke. No. 1,335,914; Apr. 6; v. 273; p. 40.
Fulcrum, Forming a forged. L. L. Whitney. No. 1,335,808, Apr. 6; v. 273; p. 20.
Fulcrum, Method of forming a forged. L. L. Whitney. No. 1,335,213; Mar. 30; v. 272; p. 792.
Fuller ball. P. Mueller. No. 1,350,378; Aug. 24; v. 277; p. 608.
Fuller ball. P. Mueller. No. 1,359,522; Nov. 23; v. 280; p. 604.
Fuller bibb with elastic stem. P. Mueller. No. 1,359,521; Nov. 23; v. 280; p. 604.
Fumes from materials, Removing. K. B. Howell. No. 1,348,140; July 27; v. 276; p. 734.
Fumes passing through electrical precipitators, Regulating the velocity of. W. W. Strong. No. 1,337,488; Apr. 20; v. 273; p. 472.
Fumes passing through electrical precipitators, Regulating the velocity of. W. W. Strong. No. 1,337,489; Apr. 20; v. 273; p. 472.
Fumigating apparatus. F. de A. del Valle. No. 1,382,109; Feb. 24; v. 271; p. 638.
Fumigator and poison-distributer. J. E. McLeod. No. 1,355,489; Oct. 12; v. 279; p. 258.
Fumigator, Poultry-. A. Woudema. No. 1,335,629; Mar. 30; v. 272; p. 870.
Funnel. H. N. Bernier. No. 1,353,712; Sept. 21; v. 278; p. 487.
Funnel. H. A. Even. No. 1,355,952; Oct. 19; v. 279; p. 388.
Funnel. J. S. Farhinger. No. 1,357,490; Nov. 2; v. 280; p. 54.
Funnel. G. Heimgartner. No. 1,338,756; Mar. 16; v. 272; p. 412.
Funnel. W. F. Kendt. No. 1,347,383; July 20; v. 276; p. 526.
Funnel. I. J. Kosminsky. No. 1,358,218; Nov. 9; v. 280; p. 257.
Funnel, Automatic self-closing. G. H. Grove. No. 1,343,867; June 15; v. 275; p. 560.
Funnel, Detachable can-. T. Kitaoka. No. 1,344,801; June 29; v. 275; p. 872.
Funnel, Gasolene-. G. Samboll. No. 1,350,184; Aug. 17; v. 277; p. 524.
Funnel, Measuring-. F. B. Norton. No. 1,359,730; Nov. 23; v. 280; p. 645.
Funnel, Measuring-. H. Oberste and O. Wofford. No. 1,329,472; Feb. 3; v. 271; p. 24.
Fur-cutting machine. M. Zawistowski. No. 1,341,450; May 25; v. 274; p. 734.
Fur-picking machine. C. S. Peck. No. 1,329,544; Feb. 3; v. 271; p. 38.
Fur-screen. T. Travis. No. 1,339,240; May 4; v. 274; p. 109.
Fur-stretcher. D. E. Payne. No. 1,348,238; Aug. 3; v. 277; p. 22.
Fur-tumbling apparatus. B. and S. Friedman. No. 1,343,816; June 15; v. 275; p. 549.

Furnace: *See*—
Air-heating furnace.
Annealing and heat-treating furnace.
Blast-furnace.
Boiler-furnace.
Carbonizing-furnace.
Combustion-furnace.
Downdraft-furnace.
Electric furnace.
Electric-arc furnace.
Electric resistance-furnace.
Electrical furnace.
Electrometallurgical furnace.
Enameling and annealing furnace.
Feeding-furnace.
Gas-furnace.
Gas-burning furnace.
Glass-furnace.
Glass-annealing furnace.
Hardening and annealing furnace.
Heat-generating furnace.
Heat-treating furnace.
Heating-furnace.
Hot-air furnace.
Hot-chamber furnace.
Hyrocarbon-treating furnace.
Kerosene-gas-burning furnace.
Leaf and waste furnace.
Liquid-fuel-burning furnace.
Liquid-heating furnace.
Lubricating-furnace.
Mechanical furnace.
Melting-furnace.
Metal-furnace.
Metal-heating furnace.
Metal-melting furnace.
Metallurgical furnace.
Muffle-furnace.
Non-crucible furnace.
Oil-burning furnace.
Oil-cracking-still furnace.
Open-hearth furnace.
Open-side furnace.
Ore reducing and refining furnace.
Ore-roasting furnace.
Plumber's furnace.
Pot-furnace.
Pyrites-furnace.
Recuperative furnace.
Reduction-furnace.
Regenerative furnace.
Reverberatory furnace.
Reversing-furnace.
Ring-furnace.
Roasting-furnace.
Rotary-draft furnace.
Singeing-furnace.
Smelting-furnace.
Steam and hot water furnace.
Steam-boiler furnace.
Tobacco-furnace.
Underfeed furnace.
Underfeed-stoker furnace.
Zince-reduction furnace.

Furnace. J. G. Aarts. No. 1,352,338; Sept. 7; v. 278; p. 120.
Furnace. S. S. Amdursky. No. 1,330,277; Feb. 10; v. 271; p. 197.
Furnace. A. M. Aubert. No. 1,353,818; Sept. 28; v. 278; p. 551.
Furnace. E. S. Beattie. No. 1,363,555; Dec. 28; v. 281; p. 646.
Furnace. H. Benton. No. 1,328,116; Jan. 13; v. 270; p. 293.
Furnace. W. M. Butler. No. 1,336,675; Apr. 13; v. 273; p. 248.
Furnace. B. F. Caldwell. No. 1,351,282; Aug. 31; v. 277; p. 847.
Furnace. L. J. Clossey. No. 1,362,473; Dec. 14; v. 281; p. 343.
Furnace. W. J. Doyle and J. J. Wollenhaupt. No. 1,346,801; July 13; v. 276; p. 354.
Furnace. W. E. Ewing. No. 1,333,104; Mar. 9; v. 272; p. 228.
Furnace. E. Fitts. No. 1,329,891; Feb. 3; v. 271; p. 102.
Furnace. C. D. Fuller. No. 1,356,859; Oct. 26; v. 279; p. 613.
Furnace. G. J. Hagan. No. 1,362,297; Dec. 14; v. 281; p. 309.
Furnace. C. Haner, Jr. No. 1,342,058; June 8; v. 275; p. 317.
Furnace. O. H. Hertel. No. 1,363,734; Dec. 28; v. 281; p. 680.
Furnace. G. H. Hess. No. 1,358,370; Nov. 9; v. 280; p. 288.
Furnace. H. D. Hibbard. No. 1,362,532; Dec. 14; v. 281; p. 355.
Furnace. C. P. Hidden. No. 1,348,175; Aug. 3; v. 277; p. 8.
Furnace. J. S. Hillyer. No. 1,356,147; Oct. 19; v. 279; p. 427.
Furnace. J. H. Hume. No. 1,368,136; Apr. 27; v. 273; p. 665.
Furnace. H. B. Kinnear and A. J. Townsend. No. 1,339,564; May 11; v. 274; p. 246.
Furnace. T. B. Kitson. No. 1,343,457; June 15; v. 275; p. 477.
Furnace. W. Lloyd. No. 1,340,549; May 18; v. 274; p. 490.
Furnace. W. Lloyd. No. 1,340,725; May 18; v. 274; p. 523.
Furnace. C. M. Lyman and F. R. Butters. No. 1,358,861; Nov. 16; v. 280; p. 431.
Furnace. J. U. McDonald. No. 1,349,971; Aug. 17; v. 277; p. 483.
Furnace. R. Marx. No. 1,357,790; Nov. 2; v. 280; p. 112.
Furnace. M. Mathy. No. 1,349,899; Aug. 17; v. 277; p. 469.
Furnace. L. Metesser. No. 1,328,883; Jan. 27; v. 270; p. 503.
Furnace. W. H. Nehls. No. 1,362,259; Dec. 14; v. 281; p. 303.
Furnace. F. C. Nicholas. No. 1,350,233; Aug. 17; v. 277; p. 534.
Furnace. H. W. Nield. No. 1,339,859; May 11; v. 274; p. 302.
Furnace. A. C. Osborn, Jr. No. 1,343,470; June 15; v. 275; p. 479.

Digitized by Google

Furnace. T. A. Peebles. No. 1,338,694; May 4; v. 274; p. 8.
Furnace. H. A. Poppenhusen. No. 1,335,528; Mar. 30; v. 272; p. 850.
Furnace. A. C. Rhodes. No. 1,336,980; Apr. 13; v. 273; p. 302.
Furnace. J. H. Roach. No. 1,346,464; July 13; v. 276; p. 286.
Furnace. C. Roudy. No. 1,363,272; Dec. 28; v. 281; p. 591.
Furnace. A. Smallwood. No. 1,335,202; Mar. 30; v. 272; p. 790.
Furnace. A. Smallwood. No. 1,335,203; Mar. 30; v. 272; p. 790.
Furnace. A. Smallwood. No. 1,335,204; Mar. 30; v. 272; p. 790.
Furnace. A. Smallwood. No. 1,351,801; Sept. 7; v. 278; p. 17.
Furnace. H. E. Smythe. No. 1,344,458; June 22; v. 275; p. 740.
Furnace. R. E. Talley. No. 1,362,369; Dec. 14; v. 281; p. 323.
Furnace. C. L. W. Trinks. No. 1,360,058; Nov. 23; v. 280; p. 710.
Furnace. W. G. Zetsche. (Reissue.) No. 15,009; Dec. 14; v. 281; p. 366.
Furnace and extract-boiler, Wood-ash. E. W. Eisenhauer, Jr., L. F. Flormann, and E. C. A. Woltmann. No. 1,341,889; June 1; v. 275; p. 54.
Furnace and flue-welder, Combined. F. Johnson. No. 1,346,753; July 13; v. 276; p. 343.
Furnace and grate-bar therefor. J. S. Skelly. No. 1,354,346; Sept. 28; v. 278; p. 658.
Furnace and lining therefor. J. P. Copland. No. 1,341,299; May 25; v. 274; p. 704.
Furnace and operation, Electric. L. C. H. Groeger. No. 1,333,914; Mar. 16; v. 272; p. 441.
Furnace and the process of combustion of pulverulent and other fuel adapted for steam-boilers. F. Seymour. No. 1,355,172; Oct. 12; v. 279; p. 196.
Furnace, Annealing-. T. J. Costello. (Reissue.) No. 15,011; Dec. 21; v. 281; p. 539.
Furnace-arch. I. W. Foltz. No. 1,346,010; July 6; v. 276; p. 135.
Furnace-arch. F. H. Waite. No. 1,330,925; Feb. 17; v. 271; p. 396.
Furnace burner, Gas-. W. P. Boyle. No. 1,328,225; Jan. 13; v. 270; p. 314.
Furnace-casing. C. L. Epps. No. 1,351,633; Aug. 31; v. 277; p. 917.
Furnace-charging apparatus. J. W. Frazier. No. 1,331,703; Feb. 24; v. 271; p. 562.
Furnace-charging apparatus. F. E. Troutman. No. 1,336,494; Apr. 13; v. 273; p. 208.
Furnace-charging apparatus, Safety control means for. A. E. Carver and H. Hildenbiddle. No. 1,355,453; Oct. 12; v. 279; p. 251.
Furnace-charging device. W. E. Moore. No. 1,343,465; June 15; v. 275; p. 479.
Furnace-charging machine. W. Dyrssen. No. 1,329,588; Feb. 3; v. 271; p. 46.
Furnace construction. B. E. Broadwell. No. 1,351,281; Aug. 31; v. 277; p. 847.
Furnace construction. J. W. Gates. No. 1,341,977; June 1; v. 275; p. 71.
Furnace construction. J. W. Gates. No. 1,341,896; June 1; v. 275; p. 55.
Furnace construction. H. B. Holt. No. 1,342,908; June 8; v. 275; p. 307.
Furnace construction. C. M. Johnson. No. 1,329,907; Feb. 3; v. 271; p. 105.
Furnace construction. H. A. Schweyer. No. 1,341,594; May 25; v. 274; p. 761.
Furnace construction. A. G. Smith and B. E. Broadwell. No. 1,351,305; Aug. 31; v. 277; p. 852.
Furnace construction. J. F. Tutein. No. 1,345,652; July 6; v. 276; p. 63
Furnace control. E. McLean. No. 1,355,157; Oct. 12; v. 279; p. 193.
Furnace, Controlling the thickness of walls in an electric. C. H. Chapman. No. 1,340,155; May 18; v. 274; p. 416.
Furnace-door check, Smoke-preventing. J. P. Doyle. No. 1,347,261; July 20; v. 276; p. 502.
Furnace doors, Crane-hinge for muffle-. G. W. Lindsay. No. 1,346,903; July 20; v. 276; p. 432.
Furnace-doors, Device for operating. C. E. Meyers. No. 1,336,476; Apr. 13; v. 273; p. 205.
Furnace - drawing apparatus. A. Soderstrom. No. 1,334,000; Mar. 16; v. 272; p. 458.
Furnace floor-bar. R. C. Drinker. No. 1,342,041; June 1; v. 275; p. 84.
Furnace for burning refuse. W. Piernay. No. 1,346,055; July 6; v. 276; p. 144.
Furnace for heating metal articles. W. H. Southorne. No. 1,347,719; July 27; v. 276; p. 650.
Furnace for heating ribbons and bars, Electric. O. A. Colby. No. 1,347,895; July 27; v. 276; p. 685.
Furnace for heating rods. M. Mathy. No. 1,339,034; May 4; v. 274; p. 71.
Furnace for melting glass and other purposes. J. S. Shaw. No. 1,359,756; Nov. 23; v. 280; p. 650.
Furnace for the annealing, hardening, quenching, or like heat treatment of metals. A. Smallwood. No. 1,339,434; May 11; v. 274; p. 219.
Furnace for the electrical oxidization of gases. B. Thomas. No. 1,359,932; Nov. 23; v. 280; p. 685.
Furnace for the electrical oxidization of gases. B. Thomas. No. 1,359,933; Nov. 23; v. 280; p. 685.
Furnace for welding castings, Preheating-. A. E. Hauck. No. 1,344,690; June 29; v. 275; p. 850.
Furnace-front. J. H. Hume. No. 1,331,152; Feb. 17; v. 271; p. 438.
Furnace-front. J. H. Hume. No. 1,331,153; Feb. 17; v. 271; p. 439.
Furnace-front. J. Reid. No. 1,359,037; Aug. 17; v. 277; p. 496.
Furnace-front. C. Zulver and L. E. Smith. No. 1,354,429; Sept. 28; v. 278; p. 675.
Furnace-front air-valve system. J. Reid. No. 1,335,194; Mar. 30; v. 272; p. 789.
Furnace-front and valve mechanism therefor. J. Reid. No. 1,333,732; Mar. 16; v. 272; p. 407.
Furnace-front baffle construction. J. Reid. No. 1,350,468; Aug. 24; v. 277; p. 627.
Furnace-front flareway. J. Reid. No. 1,332,005; Feb. 24; v. 271; p. 619.
Furnace-fronts, Liquid-fuel fitting for. L. E. Smith, C. Zulver, and H. A. Thompson. No. 1,353,795; Sept. 21; v. 278; p. 503.
Furnace-gas producer. L. M. Underwood. No. 1,337,298; Apr. 20; v. 273; p. 437.
Furnace-grate. M. T. Davis, Jr. No. 1,350,990; Aug. 24; v. 277; p. 727.
Furnace-grate. A. Meade. No. 1,333,812; Mar. 16; v. 272; p. 422.
Furnace-grate. J. A. Packard. No. 1,344,144; June 22; v. 275; p. 678.
Furnace-grate. E. B. Priebe. No. 1,360,250; Nov. 23; v. 280; p. 748.
Furnace-grate. M. G. Sweeney. No. 1,361,925; Dec. 14; v. 281; p. 236.
Furnace grate-bar. J. Van Brunt. No. 1,329,447; Feb. 3; v. 271; p. 19.
Furnace - grate construction. O. P. Nystrom. No. 1,332,353; Mar. 2; v. 272; p. 34.
Furnace-heating. W. E. Renner. No. 1,332,684; Mar. 2; v. 272; p. 97.
Furnace-joint. J. Farris. No. 1,342,258; June 1; v. 275; p. 127.
Furnace-linings, Apparatus for repairing. C. L. Mowry and C. L. Dudley. No. 1,363,610; Dec. 28; v. 281; p. 656.
Furnace, Mechanical-feeding. G. Gröndal. No. 1,350,210; Nov. 23; v. 280; p. 740.
Furnace, Operating an electric. M. R. Trembour. No. 1,339,428; May 11; v. 274; p. 220.
Furnace or leer, Annealing-. W. O. Amsler. No. 1,351,323; Aug. 31; v. 277; p. 856.
Furnace or like structure, Tilting. W. R. Clark. No. 1,358,620; Nov. 9; v. 280; p. 338.
Furnace or like structure, Tilting. W. R. Clark. No. 1,358,621; Nov. 9; v. 280; p. 338.
Furnace, Production of iron in an electric. G. J. Stock. No. 1,338,881; May 4; v. 274; p. 43.
Furnace rail-block. G. J. Rennie. No. 1,341,928; June 1; v. 275; p. 62.
Furnace reaction-chamber and preventing destruction thereof. F. J. Metzger. No. 1,363,428; Dec. 28; v. 281; p. 620.
Furnace-regulating system, Gas-. A. C. Ionides, Jr., and S. V. Cooke. No. 1,347,954; July 27; v. 276; p. 696.
Furnace regulation. G. H. Gibson. No. 1,360,285; Nov. 30; v. 280; p. 823.
Furnace-regulator. E. W. Seeger. No. 1,348,589; Aug. 3; v. 277; p. 89.
Furnace-regulator system. E. M. Bouton. No. 1,349,361; Aug. 10; v. 277; p. 292.
Furnace-regulator, Time-controlled. H. A. Mailloux. No. 1,339,468; May 11; v. 274; p. 228.
Furnace-roof construction. C. E. Bonsor. No. 1,330,052; Feb. 10; v. 271; p. 164.
Furnace-roof structure. W. Cook, J. Butler and J. Griffiths. No. 1,355,115; Oct. 5; v. 279; p. 132.
Furnace sectional casing. W. F. Kasbohm. No. 1,350,257; Aug. 17; v. 277; p. 538.
Furnace-setting. F. H. Nickle. No. 1,329,470; Feb. 3; v. 271; p. 24.
Furnace-slagging apparatus. E. W. Clark. No. 1,329,293; Jan. 27; v. 270; p. 580.
Furnace, stove, and the like, Hot-air. C. Hiller. No. 1,340,340; May 18; v. 274; p. 450.
Furnace structure. C. J. Holub. No. 1,358,550; Nov. 9; v. 280; p. 324.
Furnace-tapping machine. T. T. Scott. No. 1,361,103; Dec. 7; v. 281; p. 24.
Furnace temperature, Method and apparatus for controlling. G. F. Fuller. No. 1,339,190; May 4; v. 274; p. 100.
Furnace-wall. D. S. Jacobus. No. 1,341,645; June 1; v. 275; p. 6.
Furnaces, Adjustable deflector for hot-air. A. Hendrickson. No. 1,354,746; Oct. 5; v. 279; p. 59.
Furnaces, Air-preheater for. M. M. Tenesch. No. 1,346,992; July 20; v. 276; p. 450.
Furnaces, Air-preheating device for. H. R. Brunner. No. 1,354,950; Oct. 5; v. 279; p. 100.

Digitized by Google

Furnaces, Apparatus for delivering mold charges from glass-. S. Davidson and A. L. Schram. No. 1,338,214; Apr. 27; v. 273; p. 680.
Furnaces, Apparatus for delivery of gas and air to. G. Keith. No. 1,363,513; Dec. 28; v. 281; p. 637.
Furnaces, Apparatus for supplying powdered fuel to. E. H. Stroud. No. 1,353,291; Sept. 21; v. 278; p. 403.
Furnaces, Automatic air control for. O. H. Hertel. No. 1,358,204; Nov. 9; v. 280; p. 254.
Furnaces, Chain grate for. J. Mallinson. No. 1,327,399; Jan. 6; v. 270; p. 96.
Furnaces, Composite lining for rotary. W. S. Rockwell. No. 1,333,343; Mar. 9; v. 272; p. 278.
Furnaces, Construction of catalyst. H. C. Greenwood and W. R. Tate. No. 1,335,891; Apr. 6; v. 273; p. 35.
Furnaces, Control of power absorbed in electric. C. C. Gow and D. F. Campbell. No. 1,327,548; Jan. 6; v. 270; p. 125.
Furnaces, Control system for electric. O. A. Colby. No. 1,349,363; Aug. 10; v. 277; p. 292.
Furnaces, Control system for electric. E. A. Hester. No. 1,349,379; Aug. 10; v. 277; p. 296.
Furnaces, Control system for electric. F. Thornton, Jr. No. 1,338,408; Apr. 27; v. 273; p. 716.
Furnaces, Control system for electrical. F. Thornton, Jr. No. 1,349,391; Aug. 10; v. 277; p. 298.
Furnaces, Controlling combustion in a plurality of. F. H. Brown. No. 1,338,902; May 4; v. 274; p. 46.
Furnaces, Conveyer for. C. D. Barnhart. No. 1,333,371; Mar. 9; v. 272; p. 278.
Furnaces, Deflecting-wall for. G. Baehr and E. L. Messler. No. 1,336,499; Apr. 13; v. 273; p. 209.
Furnaces, Device for pushing back ores into the interior of mechanical muffle roasting-. R. V. Zelewski and H. Siegel. No. 1,339,252; May 4; v. 274; p. 111.
Furnaces, Draft-damper mechanism for. H. Vick. No. 1,341,868; June 1; v. 275; p. 50.
Furnaces, Flat arch for. O. Wundrack. No. 1,339,615; May 11; v. 274; p. 256.
Furnaces, Flexible connection for. J. H. Critchett. No. 1,331,625; Feb. 24; v. 271; p. 547.
Furnaces for locomotives. Feeding device for pulverous fuel in. K. H. V. von Porat. No. 1,357,663; Nov. 2; v. 280; p. 87.
Furnaces, Front discharge-chamber of melting-. P. Dhé. No. 1,361,754; Dec. 7; v. 281; p. 155.
Furnaces, Fuel-feeder for feeding pulverized fuel to. A. J. Maskrey, Jr. No. 1,362,026; Dec. 14; v. 281; p. 256.
Furnaces, Ingot-skid for ingot-heating. C. W. Hawthorne. No. 1,361,254; Dec. 7; v. 281; p. 54.
Furnaces, Means actuated by alternating electric current for controlling or operating electric. J. H. Reid. No. 1,327,738; Jan. 13; v. 270; p. 222.
Furnaces, Means for returning surplus balls in metal-heating. M. A. Turtle. No. 1,330,223; Feb. 10; v. 271; p. 196.
Furnaces, Method and apparatus for removing molten metal from. E. W. Clark. No. 1,332,973; Mar. 9; v. 272; p. 204.
Furnaces, Observation-window for. M. Curry. No. 1,349,562; Aug. 17; v. 277; p. 405.
Furnaces, Oil-burning appliance for. A. Hutton and J. M. Mahoney. No. 1,360,641; Nov. 30; v. 280; p. 893.
Furnaces, Oil-filtering attachment for. M. Blum. No. 1,332,377; Mar. 2; v. 272; p. 39.
Furnaces of locomotive-boilers, &c., Liquid-fuel burner for. G. Atock. No. 1,332,480; Mar. 2; v. 272; p. 58.
Furnaces, Open-side water-jackets for smelting-. A. B. Carstens. No. 1,331,803; Feb. 24; v. 271; p. 581.
Furnaces, Ore-feeding apparatus for. L. S. Thill. No. 1,348,603; Aug. 3; v. 277; p. 92.
Furnaces, Oxidizing materials in electric. W. S. Mayer and W. C. Kennedy. No. 1,350,877; Aug. 24; v. 277; p. 705.
Furnaces, Port construction for metallurgical. G. F. Downs and H. F. Miller, Jr. No. 1,343,314; June 15; v. 275; p. 449.
Furnaces, Port construction for metallurgical. G. F. Downs and H. F. Miller, Jr. No. 1,343,315; June 15; v. 275; p. 450.
Furnaces, Producing cement of liquid slags in electric. K. G. Wennerström. No. 1,343,948; June 22; v. 275; p. 640.
Furnaces, Refractory-brick construction for locomotive-. J. C. Martin, Jr. No. 1,333,868; Mar. 16; v. 272; p. 432.
Furnaces, Refuse-discharge mechanism for. E. Lundgren. No. 1,355,487; Oct. 12; v. 279; p. 258.
Furnaces, Regulating combustion-. J. M. Hopwood. No. 1,338,922; May 4; v. 274; p. 50.
Furnaces, Regulating combustion in. F. H. Brown. No. 1,338,898; May 4; v. 274; p. 46.
Furnaces, Regulating combustion in. F. H. Brown. No. 1,338,900; May 4; v. 274; p. 46.
Furnaces, Regulating combustion in. F. H. Brown. No. 1,338,901; May 4; v. 274; p. 46.
Furnaces, Removable partition for metal-heating. R. C. Drinker. No. 1,330,244; Feb. 10; v. 271; p. 200.
Furnaces, Scraping apparatus for. A. Maxwell. No. 1,362,336; Dec. 14; v. 281; p. 317.
Furnaces, Sectional lining for. W. S. Rockwell. No. 1,330,219; Feb. 10; v. 271; p. 195.
Furnaces, Slagging-machine for. E. W. Clark and F. C. Clarke. No. 1,340,156; May 18; v. 274; p. 416.
Furnaces, Smoke-filter and force-draft device for. H. R. Palmer. No. 1,352,142; Sept. 7; v. 278; p. 83.
Furnaces. Time-controlled heat-regulator for. H. F. Greenawalt. No. 1,331,639; Feb. 24; v. 271; p. 550.
Furnaces, Treating charge materials in electric. C. E. Parsons. No. 359,736; Nov. 23; v. 280; p. 646.
Furnaces, Truck for charges in heating-. R. C. Drinker. No. 1,330,245; Feb. 10; v. 271; p. 200.
Furnaces, Valve system for reversing-. L. L. Knox. No. 1,351,914; Sept. 7; v. 278; p. 41.
Furnaces, Water-cooled shield for tank-. J. M. Said. No. 1,360,587; Nov. 30; v. 280; p. 882.
Furnaces, Water-heater for. A. W. Bachmann. No. 1,351,606; Aug. 31; v. 277; p. 912.
Furnaces, Water-pan for hot-air. E. E. Engleman. No. 1,362,932; Dec. 21; v. 281; p. 484.
Furnaces, Waterback for. S. E. Diescher. No. 1,364,042; Dec. 28; v. 281; p. 739.
Furnaces, with apparatus intended therefor, Method for the heating of material or the performance of chemical processes in electrical. T. A. F. Holmgren and C. T. Thorssell. No. 1,342,809; June 8; v. 275; p. 288.
Furniture. A. J. Gustafson. No. 1,346,955; July 20; v. 276; p. 442.
Furniture. A. B. Jippson. No. 1,345,366; July 6; v. 276; p. 8.
Furniture. J. Stephan. No. 1,327,178; Jan. 6; v. 270; p. 56.
Furniture. J. Stephen. No. 1,357,740; Nov. 2; v. 280; p. 102.
Furniture-adjusting mechanism. J. Freeman. No. 1,334,365; Mar. 23; v. 272; p. 572.
Furniture, Article of. J. H. Phillips. No. 1,344,277; June 22; v. 275; p. 704.
Furniture, Bedroom. W. C. James. No. 1,354,615; Oct. 5; v. 279; p. 34.
Furniture-bracket. S. Jones. No. 1,345,011; June 29; v. 275; p. 911.
Furniture, Center-slot steel. J. A. Rutherford. No. 1,342,030; June 1; v. 275; p. 82.
Furniture, Collapsible. A. N. Clough. No. 1,341,225; May 25; v. 274; p. 690.
Furniture, Collapsible. S. L. Fisher. No. 1,331,145; Feb. 17; v. 271; p. 437.
Furniture, Combination. R. M. Firestone. No. 1,333,909; Mar. 16; v. 272; p. 440.
Furniture, Combination. E. E. Sturk. No. 1,347,417; July 20; v. 276; p. 533.
Furniture, Combination article of. F. C. Hall. No. 1,330,378; Feb. 10; v. 271, p. 224.
Furniture, Combination folding. F. J. Vohralik. No. 1,331,599; Feb. 24; v. 271; p. 542.
Furniture constructed from lock-seam tubing, Metal. P. H. Friel. No. 1,337,128; Apr. 13; v. 273; p. 830.
Furniture construction. J. F. Gall. No. 1,352,594; Sept. 14; v. 278; p. 206.
Furniture, Convertible. V. Tiffin. No. 1,340,467; May 18; vol. 274; p. 474.
Furniture device, &c., Convertible. J. Gosch, and J. Blackowiak. No. 1,363,247; Dec. 28; v. 281; p. 586.
Furniture, Extensible. M. F. Bayer. No. 1,359,658; Nov. 23; v. 280; p. 630.
Furniture-fastening device. E. R. Glass. No. 1,334,851; Mar. 23; v. 272; p. 664.
Furniture, Foldable. A. Rapp. No. 1,339,669; May 11; v. 274; p. 267.
Furniture, Folding. G. R. Stine. No. 1,351,013; Aug. 24; v. 277; p. 731.
Furniture-leg attachment. B. H. Jeffers. No. 1,329,605; Feb. 3; v. 271; p. 49.
Furniture-leveler. G. R. Perry. No. 1,348,441; Aug. 3; v. 277; p. 61.
Furniture, Lighting-fixture for attachment to bedroom. J. T. Robb. No. 1,356,312; Oct. 19; v. 279; p. 460.
Furniture, Panel-receptacle for. R. H. Krall. No. 1,333,853; Mar. 16; v. 272; p. 429.
Furniture-polish. J. F. James. No. 1,363,419; Dec. 28; v. 281; p. 618.
Furniture-polish composition. M. B. Sacks. No. 1,359,536; Nov. 23; v. 280; p. 606.
Furniture, Printer's. C. E. Benham. No. 1,349,257; Aug. 10; v. 277; p. 272.
Furniture, Printer's. D. A. Hampson. No. 1,336,223; Apr. 6; v. 273; p. 98.
Furniture, Sliding shoe for. J. A. Johnson. No. 1,334,496; Mar. 23; v. 272; p. 596.
Furniture, Sliding shoe for. J. A. Johnson. No. 1,341,133; May 25; v. 274; p. 672.
Furniture, Sliding shoe for. F. W. Smith. No. 1,347,720; July 27; v. 276; p. 650.
Furniture, Ventilated, upholstered. F. O. White. No. 1,339,611; May 11; v. 274; p. 255.
Furniture, Wheel-bearing for. R. J. Ehlers. No. 1,342,279; June 1; v. 275; p. 131.
Furrow-cleaner. J. H. Buford. No. 1,345,346; July 6; v. 276; p. 4.
Furrow cutting and scarifying machine. F. T. P. Knuppel. No. 1,354,665; Oct. 5; v. 279; p. 44.
Furrowing-machine. W. D. Haines. No. 1,333,845; Mar. 16; v. 272; p. 428.
Furs, skins, &c., Machine for cutting. A. J. Ronch. No. 1,357,727; Nov. 2; v. 280; p. 100.

Google

Fuse. A. H. Bakken. No. 1,349,357; Aug. 10; v. 277; p. 291.
Fuse. B. C. Candee. No. 1,363,641; Dec. 28; v. 281; p. 662.
Fuse. B. C. Candee and F. Moeser. No. 1,363,642; Dec. 28; v. 281; p. 662.
Fuse. A. L. Eustice. No. 1,330,066; Feb. 10; v. 271; p. 166.
Fuse. A. L. Eustice. No. 1,335,229; Mar. 30; v. 272; p. 795.
Fuse. A. L. Eustice. No. 1,348,488; Aug. 3; v. 277; p. 70.
Fuse. D. A. Pistorio. No. 1,333,777; Mar. 16; v. 272; p. 415.
Fuse. P. A. Riccio. No. 1,355,779; Oct. 12; v. 279; p. 313.
Fuse. F. A. Sullivan and W. L. Lukins. No. 1,342,652; June 8; v. 275; p. 255.
Fuse apparatus, Repeating. L. M. Klauber. No. 1,352,816; Sept. 14; v. 278; p. 251.
Fuse, Base detonating-. W. L. Lukens. No. 1,327,600; Jan. 6; v. 270; p. 134.
Fuse-box. H. L. Bullock. No. 1,359,324; Nov. 16; v. 280; p. 519.
Fuse, Cartridge-. L. F. Kries. No. 1,353,123; Sept. 14; v. 278; p. 310.
Fuse, Cartridge-type. E. C. Ballman. No. 1,350,055; Aug. 17; v. 277; p. 500.
Fuse, Delay-action. F. D. Sprague and P. W. Allison. No. 1,343,415; June 15; v. 275; p. 469.
Fuse, Detonating-. W. C. Cope. No. 1,341,705; June 1; v. 275; p. 18.
Fuse, Detonator-. J. B. Semple. No. 1,336,391; Apr. 6; v. 273; p. 130.
Fuse device. A. Herz. (Reissue.) No. 14,844; Apr. 20; v. 273; p. 568.
Fuse, Electric. T. E. Murray. No. 1,339,965; May 11; v. 274; p. 322.
Fuse, Electric. F. J. Petrovics. No. 1,335,949; Apr. 20; v. 273; p. 561.
Fuse, Electric. A. W. Steele. No. 1,335,404; Mar. 30; v. 272; p. 828.
Fuse, Electric. A. W. Steele. No. 1,335,405; Mar. 30; v. 272; p. 828.
Fuse for explosive shells or bombs, Time-. H. Austin. No. 1,342,413; June 8; v. 275; p. 209.
Fuse for projectile, Percussion-. H. Kirchhoff. No. 1,356,633; Oct. 26; v. 279; p. 568.
Fuse-handling tool. G. Knoss, Jr. No. 1,363,515; Dec. 28; v. 281; p. 638.
Fuse, Inclosed non-arcing refillable. A. A. Wells. No. 1,337,806; Apr. 20; v. 273; p. 583.
Fuse-indicator. W. H. Holdorf. No. 1,337,357; Apr. 20; v. 273; p. 448.
Fuse, Knife-blade. A. L. Eustice. No. 1,332,389; Mar. 2; v. 272; p. 42.
Fuse, Mechanical time-. U. Wilck. No. 1,362,519; Dec. 14; v. 281; p. 352.
Fuse mechanism, Time-. T. W. R. McCabe. No. 1,333,667; Mar. 16; v. 272; p. 395.
Fuse, Percussion-. O. Guerritore. No. 1,327,037; Jan. 6; v. 270; p. 30.
Fuse, Percussion. O. Guerritore. No. 1,357,703; Nov. 2; v. 280; p. 95.
Fuse, Percussion-. S. Kruk. No. 1,335,003; Mar. 30; v. 272; p. 753.
Fuse, Percussion and ignition. L. W. Rockwell. No. 1,356,828; Oct. 26; v. 279; p. 607.
Fuse-plug. E. G. K. Anderson. No. 1,335,810; Apr. 6; v. 273; p. 20.
Fuse-plug. R. B. Benjamin. No. 1,328,782; Jan. 20; v. 270; p. 454.
Fuse-plug. T. A. C. Both, A. H. Trumbull, and R. A. Schoenberg. No. 1,335,362; Mar. 30; v. 272; p. 820.
Fuse-plug. G. C. Calentine. No. 1,330,516; Feb. 10; v. 271; p. 250.
Fuse-plug. M. J. Canning. No. 1,350,210; Aug. 17; v. 277; p. 530.
Fuse-plug. W. Cottrell. No 1,355,313; Oct 12; v. 279; p. 224.
Fuse-plug. W. Cottrell. No. 1,355,314; Oct. 12; v. 279; p. 224.
Fuse-plug. A. F. Daum. No. 1,351,204; Aug. 31; v. 277; p. 832.
Fuse-plug. A. S. Deem. No. 1,338,426; Apr. 27; v. 273; p. 719.
Fuse. Plug-. A. L. Eustice. No. 1,344,296; June 22; v. 275; p. 708.
Fuse-plug. G. W. Goodridge. No. 1,330,630; Feb. 10; v. 271; p. 271.
Fuse-plug. F. H. Kaiser. No. 1,357,170; Oct. 26; v. 279; p. 673.
Fuse-plug. H. T. Paiste. No. 1,350,111; Aug. 17; v. 277; p. 510.
Fuse-plug. R. S. Porter. No. 1,340,080; May 11; v. 274; p. 343.
Fuse-plug. S. T. Sjoberg. No. 1,330,499; Feb. 10; v. 271; p. 247.
Fuse-plug. W. G. Stoeser. No. 1,344,359; June 22; v. 275; p. 720.
Fuse-plug. E. C. Weisgerber. No. 1,346,574; July 13; v. 276; p. 308.
Fuse-plug, Multiple. V. G. Jensen. No. 1,359,174; Nov. 16; v. 280; p. 489.
Fuse plug, Multiple-. E. M. King. No. 1,336,238; Apr. 6; v. 273; p. 101.
Fuse-plug, Refillable. J. G. Clemens. No. 1,348,391; Aug. 3; v. 277; p. 51.
Fuse, Projectile-. A. Chanard. No. 1,346,177; July 13; v. 276; p. 229.
Fuse, Projectile-. J. W. Darley, Jr. No. 1,351,416; Aug. 31; v. 277; p. 874.
Fuse, Refillable. E. C. Weisgerber. No. 1,341,401; May 25; v. 274; p. 724.
Fuse, Refillable. R. P. Young. No. 1,359,561; Nov. 23; v. 280; p. 612.
Fuse, Refillable cartridge-. F. L. Cooley. No. 1,354,284; Sept. 28; v. 278; p. 646.
Fuse, Refillable cartridge-. F. L. Cooley. No. 1,362,230; Dec. 14; v. 281; p. 297.
Fuse, Refillable electric. W. F. Muller. No. 1,341,662; June 1; v. 275; p. 9.
Fuse, Refillable safety indicating. A. A. Wells. No. 1,329,866; Feb. 3; v. 271; p. 98.
Fuse remover and placer. W. G. Hassel. No. 1,346,022; July 6; v. 276; p. 137.
Fuse, Renewable. G. D. Fernandez. No. 1,349,269; Aug. 10; v. 277; p. 274.
Fuse, Renewable cartridge-. A. H. Trumbull and T. A. Both. No. 1,334,572; Mar. 23; v. 272; p. 611.
Fuse-replacing appliance. A. H. Buckley. No. 1,363,835; Dec. 28; v. 281; p. 700.
Fuse, Safety, centrifugal percussion base. H. Meredith-Jones. No. 1,336,701; Apr. 13; v. 273; p. 249.
Fuse, Selectively-acting. J. B. Semple. No. 1,347,716; July 27; v. 276; p. 649.
Fuse, Self-setting liquid. E. O. Schweitzer. No. 1,358,180; Nov. 9; v. 280; p. 249.
Fuse-setting operations, Indicating instrument for use in connection with. A. T. Dawson and G. T. Buckham. No. 1,364,039; Dec. 28; v. 281; p. 739.
Fuse-switch. J. P. Arndt. No. 1,350,432; Aug. 24; v. 277; p. 619.
Fuse, Time-limit. B. M. Mooers and L. E. Warner. No. 1,361,396; Dec. 7; v. 281; p. 83.
Fuses, Apparatus for setting time-. E. Schneider. No. 1,343,588; June 15; v. 275; p. 503.
Fuses, Base-plug for time-. C. G. Heiby, J. Burkam, D. E. Lindquist, F. L. Riggin, E. W. Allen, and E. Lau. No. 1,331,921; Feb. 24; v. 271; p. 603.
Fuses, Setting-lock for time-. O. Ohlson. No. 1,358,236; Nov. 9; v. 280; p. 260.
Fusee, Time-burning railway signal-. L. S. Ross. No. 1,359,922; Nov. 23; v. 280; p. 683.
Fuselage. W. H. Barling. No. 1,347,670; July 27; v. 276; p. 640.
Fuselage. A. Elmendorf. No. 1,338,564; Apr. 27; v. 273; p. 745.
Fuselage, Tubular. J. T. Thompson. No. 1,346,993; July 20; v. 276; p. 450.
Fuselage-wiring. P. G. Zimmermann. No. 1,358,605; Nov. 9; v. 280; p. 335.
Gage: *See*—
Accurate-measuring gage.
Automatic air-gage.
Ballonnet-gage.
Bevel-gage.
Bevel and miter gage.
Bracelet-gage.
Butt-gage.
Caliper or indicating gage.
Countersink and bit-gage.
Combination-gage.
Cutter-clearance gage.
Damper-gage.
Dental gage.
Dental and surgical instrument gage.
Depth-gage.
Depth or liquid-level gage.
Diaphragm-gage.
Die-maker's gage.
Draft-gage.
Drift-gage.
Drill-gage.
Drill and wire gage.
Drilling-gage.
Embossing-gage.
Engine-gage.
Filing-gage.
Fluid-gage.
Galley-gage.
Gasolene-tank gage.
Glove-pointing gage.
Hair-trimming gage.
Head-gage.
Heading and forging machine gage.
Impulse-pressure gage.
Lawn-edge-trimming gage.
Liquid-gage.
Low-pressure gage.
Machinist's gage.
Mechanic's gage.
Micrometer-gage.
Micrometer and height gage.
Oil-gage.
Oil-dip gage.
Oil-press gage.
Paring-knife gage.
Perforating-machine gage.
Planter depth-gage.
Platen-press gage.
Plug or thread gage.
Pressure-gage.
Printer's gage.
Printer's reducing-gage.
Ring-gage.
Saw-gage.
Saw-filing gage.
Screw-thread gage.
Seed-planting gage.
Sewing-machine gage.
Sheet-gage.
Shoe-tip gage.
Slicing-gage.
Surface-gage.
Thickness-gage.
Thread-gage.
Thread-tension gage.
Tire pressure-gage.
Tympan-gage.
Type-gage.
Violin-bow gage.
Watch glass and bezel gage.
Water-gage.
Gage. H. Bacharach. No. 1,358,692; Nov. 16; v. 280; p. 397.
Gage. T. Z. Carpenter. No. 1,329,456; Feb. 3; v. 271; p. 21.
Gage. C. E. Coats. No. 1,347,207; July 20; v. 276; p. 491.

Digitized by Google

Alphabetical list of inventions—Continued.

Gage. H. B. Douglass. No. 1,339,384; May 11; v. 274; p. 211.
Gage. C. E. A. Engelmann and P. W. Hubbe. No. 1,330,311; Feb. 10; v. 271; p. 211.
Gage. H. H. Flanders. No. 1,331,190; Feb. 17; v. 271; p. 445.
Gage. D. E. Fredericksen. No. 1,336,426; Apr. 13; v. 273; p. 196.
Gage. J. Erskine. No. 1,351,419; Aug. 31; v. 277; p. 875.
Gage. C. M. Gearing. No. 1,341,978; June 1; v. 275; p. 71.
Gage. B. M. W. Hanson. No. 1,363,250; Dec. 28; v. 281; p. 587.
Gage. H. F. Jones. No. 1,358,374; Nov. 9; v. 280; p. 288.
Gage. J. R. Koch. No. 1,351,663; Aug. 31; v. 277; p. 923.
Gage. M. Lenti. No 1,329,911; Feb. 3; v. 271; p. 106.
Gage. A. W. Martin. No. 1,351,528; Aug. 31; v. 277; p. 896.
Gage. A. T. Parker. No. 1,359,834; Nov. 23; v. 280; p. 665.
Gage. H. G. Peck. No. 1,357,588; Nov. 2; v. 280; p. 73.
Gage. H. G. Peck. No. 1,357,589; Nov. 2; v. 280; p. 73.
Gage. W. L. Riedy. No. 1,345,243; June 29; v. 275; p. 956.
Gage. J. B. Rose. No. 1,333,996; Mar. 16; v. 272; p. 457.
Gage. J. Switzer. No. 1,344,569; June 22; v. 275; p. 762.
Gage. O. W. Thompson. No. 1,339,989; May 11; v. 274; p. 327.
Gage. F. L. Walter. No. 1,346,572; July 13; v. 276; p. 308.
Gage. M. W. H. Woldgaard. No. 1,363,297; Dec. 28; v. 281; p. 596.
Gage. O. L. Wood. No. 1,351,600; Aug. 31; v. 277; p. 911.
Gage, Accurate measuring-. C. E. Johansson. No. 1,363,654; Dec. 28; v. 281; p. 664.
Gage and check, Screw-thread-diameter. E. T. Byshe. No. 1,362,558; Dec. 14; v. 281; p. 360.
Gage device. J. J Fitzgerald. No. 1,347,022; July 20; v. 276; p. 455.
Gage-glass guard. A. L. Hatfield. No. 1,354,296; Sept. 28; v. 278; p. 648.
Gage-glass holder. O. D. Daniels. No. 1,333,839; Mar. 16; v. 272; p. 427.
Gage mechanism. W. H. Trout. No. 1,355,288; Oct. 12; v. 279; p. 219.
Gage, Multiple draft and pressure. F. G. Philo. No. 1,341,582; May 25; v. 274; p. 759.
Gage of precision, Sliding. J. B. Bourget. No. 1,334,984; Mar. 30; v. 272; p. 750.
Gage or gate mechanism. A. Broadmeyer. No. 1,344,167; June 22; v. 275; p. 682.
Gage or try-cock. W. H. Wafer and J. Murrin. No. 1,349,594; Aug. 17; v. 277; p. 411.
Gage-pin for tympans. I. Friedman. No. 1,363,768; Dec. 28; v. 281; p. 687.
Gaging means. D. H. Jefferson. No. 1,352,270; Sept. 7; v. 278; p. 107.
Gaging or assorting machine. S. A. North. No. 1,348,310; Aug. 3; v. 277; p. 36.
Gaging tapering bodies. Device for. F. E. Voigt. No. 1,339,639; May 11; v. 274; p. 261.
Galting-strap. M. P. McCarthy. No. 1,354,410; Sept. 28; v. 278; p. 671.
Galley. A. J. Loriot. No. 1,351,295; Aug. 31; v. 277; p. 850.
Galley-gage. A. W. Schilla. No. 1,352,478; Sept. 14; v. 278; p. 182.
Galvanic battery. R. J. Smith. No. 1,338,465; Apr. 27; v. 273; p. 727.
Galvanic cell. C. A. R. Graamans. No. 1,340,222; May 18; v. 274; p. 428.
Galvanizing apparatus. P. Picciani. No. 1,363,811; Dec. 28; v. 281; p. 695.
Galvanizing-furnace. C. A. Porath. No. 1,343,843; June 15; v. 275; p. 555.
Gambrel. H. E. Albrecht. No. 1,350,632; Aug. 24; v. 277; p. 659.
Gambrel, Adjustable. W. A. Andrew. No. 1,345,112; June 29; v. 275; p. 930.
Game. M. A. Bartlett. No. 1,340,001; May 11; v. 274; p. 329.
Game. E. Beloin. No. 1,362,218; Dec. 14; v. 281; p. 294.
Game. G. E. Bruner. No. 1,344,983; June 29; v. 275; p. 906.
Game. E. C. Cohen. No. 1,341,360; May 25; v. 274; p. 716.
Game. H. G. Cress. No. 1,338,493; Apr. 27; v. 273; p. 732.
Game. O. Droelle. No. 1,331,249; Feb. 17; v. 271; p. 456.
Game. J. L. Duggan. No. 1,353,462; Sept. 21; v. 278; p. 436.
Game. C. Gay. No. 1,338,502; Apr. 27; v. 273; p. 734.
Game. L. B. Gaylor. No. 1,363,769; Dec. 28; v. 281; p. 687.
Game. R. T. Gee. No. 1,361,248; Dec. 7; v. 281; p. 53.
Game. F. R. Harkinson. No. 1,335,498; Mar. 30; v. 272; p. 845.
Game. C. B. Hart. No. 1,331,196; Feb. 17; v. 271; p. 446.
Game. F. W. Hudson. No. 1,340,612; May 18; v. 274; p. 502.
Game. U. S. Huggins. No. 1,346,826; July 20; v. 276; p. 417.
Game. B. A. Koellhoffer. No. 1,349,615; Aug. 17; v. 277; p. 415.
Game. J. G. Laffargue. No. 1,335,511; Mar. 30; v. 272; p. 847.
Game. R. L. Lloyd. No. 1,348,817; Aug. 3; v. 277; p. 132.
Game. C. P. Mason and R. A. Dixon. No. 1,327,056; Jan. 6; v. 270; p. 34.
Game. W. H. Nicholas. No. 1,357,109; Oct. 26; v. 279; p. 662.
Game. V. Niewaleski. No. 1,343,838; June 15; v. 275; p. 554.
Game. A. Nugent. No. 1,328,390; Jan. 20; v. 270; p. 381.
Game. J. E. Owen. No. 1,334,630; Mar. 23; v. 272; p. 622.
Game. G. H. Parker. No. 1,350,384; Aug. 24; v. 277; p. 610.
Game. W. I. Smith and J. R. Irvin. No. 1,348,520; Aug. 3; v. 277; p. 521.
Game. H. S. Stoll. No. 1,329,812; Feb. 3; v. 271; p. 87.
Game. H. M. Thompson. No. 1,348,335; Aug. 3; v. 277; p. 41.
Game. M. J. Za Haris. No. 1,338,475; Apr. 27; v. 273; p. 729.
Game apparatus. G. W. Anderson. No. 1,342,884; June 8; v. 275; p. 303.
Game apparatus. W. C. Barrows. No. 1,332,021; Feb. 24; v. 271; p. 622.
Game apparatus. E. Beaupré. No. 1,346,738; July 13; v. 276; p. 340.
Game apparatus. L. Blumenfeld. No. 1,335,088; Mar. 30; v. 272; p. 769.
Game apparatus H. S. Coover. No. 1,337,691; Apr. 20; v. 273; p. 511.
Game apparatus. E. M. King. No. 1,352,517; Sept. 14; v. 278; p. 190.
Game apparatus. A. Prebble. No. 1,348,442; Aug. 3; v. 277; p. 61.
Game apparatus. O. Smith. No. 1,362,642; Dec. 21; v. 281; p. 428.
Game apparatus. C. R. Stewart. No. 1,348,597; Aug. 3; v. 277; p. 91.
Game apparatus. A. Strasburger. No. 1,345,277; June 29; v. 175; p. 963.
Game apparatus. B. F. H. Thorward. No. 1,327,072; Jan. 6; v. 270; p. 37.
Game apparatus. B. Zerenga. No. 1,344,669; June 29; v. 275; p. 847.
Game apparatus, Race-. R. M. Brenner. No. 1,344,480; June 22; v. 275; p. 744.
Game apparatus, Race-. R. M. Brenner. No. 1,346,697; July 13; v. 276; p. 332.
Game, Arithmetical card. E. C. Waterhouse. No. 1,354,707; Oct. 5; v. 279; p. 52.
Game, Ball. R. F. Downey. No. 1,339,846; May 11; v. 274; p. 300.
Game, Baseball. W. G. Gehring. No. 1,346,782; July 13; v. 276; p. 350.
Game-board. L. V. Bennett. No. 1,339,013; May 4; v. 274; p. 67.
Game-board. A. C. Currie. No. 1,327,907; Jan. 13; v. 270; p. 253.
Game-board. J. R. Duncan. No. 1,349,190; Aug. 10; v. 277; p. 258.
Game-board. E. T. Gibson. No. 1,352,510; Sept. 14; v. 278; p. 188.
Game-board. E. N. Lambert. No. 1,353,764; Sept. 21; v. 278; p. 497.
Game-board. A. G. E. Lowman. No. 1,341,185; May 25; v. 274; p. 682.
Game-board. A. W. Pink and C. J. Coughtry. No. 1,363,750; Dec. 28; v. 281; p. 683.
Game-board. C. B. Rosenberger. No. 1,337,274; Apr. 20; v. 273; p. 432.
Game-board. R. H. Rowland. No. 1,359,108; Nov. 16; v. 280; p. 477.
Game-board. T. V. Stewart. No. 1,336,169; Apr. 6; v. 273; p. 88.
Game-board, Educational. W. D. Kemp. No. 1,339,399; May 11; v. 274; p. 214.
Game board, Marble-. F. A. Hulett. No. 1,339,343; May 4; v. 274; p. 128.
Game-board, Pocket. J. H. Ramsay. No. 1,343,984; June 22; v. 275; p. 647.
Game, Bowling. F. P. Purdy. No. 1,329,254; Jan. 27; v. 270; p. 573.
Game, Card. S. H. Ferro. No. 1,332,249; Mar. 2; v. 272; p. 14.
Game device. A. B. Andrews. No. 1,329,355; Feb. 3; v. 271; p. 3.
Game device. C. B. Carr. No. 1,328,711; Jan. 20; v. 270; p. 441.
Game device. W. H. Emmert. No. 1,345,914; July 6; v. 276; p. 116.
Game device. K. Hasslinger. No. 1,332,832; Mar. 2; v. 272; p. 126.
Game device. M. M. Kaufmann and J. P. Lynn. No. 1,360,299; Nov. 30; v. 280; p. 826.

Digitized by Google

Alphabetical list of inventions—Continued.

Game device. L. F. Pierson. No. 1,339,285; May 4; v. 274; p. 117.
Game device, Dice-. J. L. Church. No. 1,353,380; Sept. 21; v. 278; p. 420.
Game, Educational. J. F. Patterson. No. 1,353,491; Sept. 21; v. 278; p. 442.
Game of skill. O. Chapman. No. 1,329,291; Jan. 27; v. 270; p. 579.
Game of skill, Apparatus for playing a. B. Dewick and D. B. Caddy. No. 1,327,464; Jan. 6; v. 270; p. 308.
Game of skill with a captive ball, Apparatus for playing a. C. M. Linley. No. 1,345,789; July 6; v. 276; p. 91.
Game or toy. L. M. Myers. No. 1,352,309; Sept. 7; v. 278; p. 115.
Game, Parlor. G. A. Birkenhead. No. 1,331,741; Feb. 24; v. 271; p. 569.
Game, Parlor baseball. R. H. Ireland. No. 1,337,778; Apr. 20; v. 273; p. 527.
Game-table. A. Smith and R. R. Shenk. No. 1,349,587; Aug. 17; v. 277; p. 410.
Game-trap. H. W. and G. Clifton. No. 1,355,034; Oct. 5; v. 279; p. 116.
Game-trap. F. F. Ellis. No. 1,349,717; Aug. 17; v. 277; p. 435.
Gang filling and closing machine. J. C. Taliaferro and I. F. Warme. No. 1,346,613; July 13; v. 276; p. 315.
Gang-plank. L. W. Lanning. No. 1,356,074; Oct. 19; v. 279; p. 412.
Gang-planks, Antislipping attachment for. E. L. Miles. No. 1,329,057; Jan. 27; v. 270; p. 536.
Garage. E. M. Hamilton and M. Hamburger. No. 1,340,045; May 11; v. 274; p. 337.
Garage. G. H. Young. No. 1,341,097; May 25; v. 274; p. 665.
Garage-heater. O. J. Kuenhold. No. 1,329,716; Feb. 3; v. 271; p. 69.
Garage-jack, Automatic. A. N. Purcell. No. 1,356,011; Oct. 19; v. 279; p. 399.
Garage-protector, Electric. G. J. Gumm. No. 1,336,625; Apr. 13; v. 273; p. 234.
Garages, &c., Device for opening and closing doors for. R. M. Wallace and E. J. Scott. No. 1,360,479; Nov. 30; v. 280; p. 861.
Garbage and refuse of towns, Apparatus for working. G. Beccari. No. 1,329,105; Jan. 27; v. 270; p. 545.
Garbage-can. G. W. Ferdon. No. 1,353,127; Sept. 14; v. 278; p. 310.
Garbage-can. J. R. Flinn. No. 1,351,747; Sept. 7; v. 278; p. 6.
Garbage-can. R. B. Lewellen. No. 1,352,521; Sept. 14; v. 275; p. 191.
Garbage-can. M. Orofino. No. 1,351,964; Sept. 7; v. 278; p. 50.
Garbage-can, Sanitary evaporating. A. Ghed. No. 1,331,428; Feb. 17; v. 271; p. 489.
Garbage collector and receiver. G. C. Check. No. 1,358,618; Nov. 9; v. 280; p. 337.
Garbage-incinerator. A. J. Roberts. No. 1,337,668; Apr. 20; v. 273; p. 506.
Garbage-incinerator. W. Savage. No. 1,349,785; Aug. 17; v. 277; p. 448.
Garbage-receptacle. J. H. Orr. No. 1,360,569; Nov. 30; v. 280; p. 878.
Garbage-receptacles, False bottom for. C. J. Jacobson. No. 1,341,507; May 25; v. 274; p. 745.
Garden-cultivator. H. W. Morgan. No. 1,342,642; June 8; v. 275; p. 253.
Garden-frame and like structure. M. W. Slade. No. 1,331,388; Feb. 17; v. 271; p. 482.
Garden implement. C. Crisman. No. 1,356,972; Oct. 26; v. 279; p. 635.
Garden implement. D. Shea. No. 1,334,681; Mar. 23; v. 272; p. 681.
Garden implement, Combined. T. S. Maultsby. No. 1,335,006; Mar. 30; v. 272; p. 753.
Garden-sprinkler. G. J. Woodruff. No. 1,334,341; Mar. 23; v. 272; p. 568.
Gardener's marking-out line. E. B. Moore. No. 1,359,519; Nov. 23; v. 280; p. 603.
Garment. J. I. Barnett. No. 1,349,359; Aug. 10; v. 277; p. 292.
Garment. S. E. Feige. No. 1,354,289; Sept. 28; v. 278; p. 647.
Garment. W. Freedman. No. 1,341,120; May 25; v. 274; p. 669.
Garment. M. M. Gellenbeck. No. 1,331,754; Feb. 24; v. 271; p. 571.
Garment. L. J. Goldberger. No. 1,354,967; Oct. 5; v. 279; p. 104.
Garment. M. M. Lauzon. No. 1,336,305; Apr. 6; v. 273; p. 113.
Garment. W. J. Mainthow. No. 1,338,187; Apr. 27; v. 273; p. 674.
Garment. H. A. Martl. No. 1,327,625; Jan. 13; v. 270; p. 200.
Garment. A. Nogar. No. 1,345,223; June 29; v. 275; p. 952.
Garment. A. L. Rankin. No. 1,351,687; Aug. 31; v. 277; p. 927.
Garment. H. L. Rissman. No. 1,352,027; Sept. 7; v. 278; p. 61.
Garment. J. Rubin. No. 1,340,915; May 25; v. 274; p. 629.
Garment. I. J. Smith. No. 1,329,025; Jan. 27; v. 270; p. 530.
Garment. M. S. Wales. No. 1,360,158; Nov. 23; v. 280; p. 730.
Garment. J. Weiss. No. 1,349,029; Aug. 10; v. 277; p. 226.
Garment, Air-circulation. E. S. Gilfillan. No. 1,360,390; Nov. 30; v. 280; p. 843.
Garment, Air-pumping. E. S. Gilfillan. No. 1,360,391; Nov. 30; v. 280; p. 843.
Garment and bandage fastener. G. A. Smart. No. 1,355,431; Oct. 12; v. 279; p. 246.
Garment and cutting same. M. C. Murphy. No. 1,347,050; July 20; v. 276; p. 461.
Garment and making same, Burial-. H. T. Loomis. No. 1,336,248; Apr. 6; v. 273; p. 108.
Garment-bag. Z. Gadomski. No. 1,363,726; Dec. 28; v. 281; p. 679.
Garment bag or container. B. I. Rike. No. 1,357,517; Nov. 2; v. 280; p. 59.
Garment, Bifurcated. S. F. Stein. No. 1,347,188; July 20; v. 276; p. 487.
Garment, Child's. N. Green and S. Matison. No. 1,351,380; Aug. 31; v. 277; p. 868.
Garment, Child's one-piece sleeveless. R. L. Parent. No. 1,332,357; Mar. 2; v. 272; p. 35.
Garment-clasp. C. C. Peterson. No. 1,355,416; Oct. 12; v. 279; p. 243.
Garment, Combination-. A. Gold. No. 1,345,763; July 6; v. 276; p. 85.
Garment, Combination. E. Gottlieb. No. 1,363,038; Dec. 21; v. 281; p. 505.
Garment, Combination. H. D. Naterman. No. 1,361,892; Dec. 14; v. 281; p. 229.
Garment, Combination-. W. J. Stookey. No. 1,354,352; Sept. 28; v. 278; p. 660.
Garment-drying apparatus. W. Messinger. No. 1,338,031; Apr. 27; v. 273; p. 645.
Garment, Electrically-heated. B. Birkenfeld. No. 1,358,509; Nov. 9; v. 280; p. 315.
Garment-fastener. S. Curlin. No. 1,334,230; Mar. 16; v. 272; p. 500.
Garment-fastener. S. Curlin. No. 1,334,598; Mar. 23; v. 272; p. 616.
Garment-fastener. I. C. Fife. No. 1,360,385; Nov. 30; v. 280; p. 842.
Garment-fastener. I. C. Fife. No. 1,360,386; Nov. 30; v. 280; p. 842.
Garment-fastener. J. Forman. No. 1,336,692; Apr. 13; v. 273; p. 247.
Garment-fastener. C. V. Havens. No. 1,363,591; Dec. 28; v. 281; p. 653.
Garment, Flesh-reducing. L. M. Bender. No. 1,361,220; Dec. 7; v. 281; p. 47.
Garment for women, Combination-. E. Butters. No. 1,356,261; Oct. 19; v. 279; p. 450.
Garment-hanger. J. H. Barclay. No. 1,329,877; Feb. 3; v. 271; p. 100.
Garment-hanger. G. A. Cutting. No. 1,334,891; Mar. 23; v. 272; p. 672.
Garment-hanger. D. Goldsmith. No. 1,344,391; June 22; v. 275; p. 726.
Garment-hanger. H. M. Gould. No. 1,336,429; Apr. 13; v. 273; p. 197.
Garment-hanger. J. and A. Jacobs. No. 1,344,697; June 29; v. 275; p. 852.
Garment-hanger. F. P. Johnson. No. 1,342,265; June 1; v. 275; p. 128.
Garment-hanger. A. J. Lobar. No. 1,338,783; May 4; v. 274; p. 25.
Garment-hanger. J. L. Lyman. No. 1,335,902; Apr. 6; v. 273; p. 87.
Garment-hanger. A. A. McCaffrey. No. 1,336,849; Apr. 13; v. 273; p. 277.
Garment-hanger. W. A. McGinnis. No. 1,345,017; June 29; v. 275; p. 912.
Garment-hanger. M. S. Miller. No. 1,332,741; Mar. 2; v. 272; p. 108.
Garment-hanger. F. F. Owen. No. 1,336,375; Apr. 6; v. 273; p. 127.
Garment-hanger. D. R. Riddick. No. 1,352,382; Sept. 7; v. 278; p. 128.
Garment-hanger. R. Saito. No. 1,334,798; Mar. 23; v. 272; p. 634.
Garment-hanger. C. A. Soule. No. 1,352,556; Sept. 14; v. 278; p. 198.
Garment-hanger. T. Tipping. No. 1,334,976; Mar. 30; v. 272; p. 748.
Garment-hanger. R. H. Varicle. No. 1,341,827; June 1; v. 275; p. 42.
Garment-hanger. V. A. Vedetto. No. 1,356,946; Oct. 26; v. 279; p. 630.
Garment hanger and stretcher. C. J. Dahlgren. No. 1,331,419; Feb. 17; v. 271; p. 488.
Garment-hanger support. C. L. Seidenberg. No. 1,340,565; May 18; v. 274; p. 493.
Garment-hanger support. J. Stein. No. 1,353,287; Sept. 21; v. 278; p. 402.
Garment-hangers, Card-holder for. W. J. Landry. No. 1,348,952; Aug. 10; v. 277; p. 211.
Garment-hanging equipment. R. D. Matheson. No. 1,361,739; Dec. 7; v. 281; p. 152.
Garment, Hospital or sleeping. V. Dean. No. 1,340,381; May 18; v. 274; p. 458.

Digitized by Google

Garment, Infant's night-. G. R. Hanna. No. 1,341,317; May 25; v. 274; p. 707.
Garment, Inflatable. K. Michalovsky. No. 1,342,054; June 1; v. 275; p. 86.
Garment, Knitted. D. C. O'Shea. No. 1,328,545; Jan. 20; v. 270; p. 411.
Garment, Machine-embroidered. A. Stern. No. 1,362,272; Dec. 14; v. 281; p. 305.
Garment, Man's. T. Gongora. No. 1,337,698; Apr. 20; v. 273; p. 512.
Garment-marker. D. B. Wing. No. 1,363,296; Dec. 28; v. 281; p. 596.
Garment or wearing apparel and more particularly corsets. I. La Montagne. No. 1,362,013; Dec. 14; v. 281; p. 254.
Garment, Outer. R. A. Whall. No. 1,340,351; May 18; v. 274; p. 452.
Garment-pressing device. J. F. Thomas. No. 1,352,158; Sept. 7; v. 278; p. 86.
Garment-pressing machine. D. M. Cooper. No. 1,332,711; Mar. 2; v. 272; p. 102.
Garment-protector. K. Heitler. No. 1,353,750; Sept. 21; v. 278; p. 495.
Garment-protector. R. G. Tuck. No. 1,343,166; June 8; v. 275; p. 358.
Garment-protector. I. M. Weisert. No. 1,362,908; Dec. 21; v. 281; p. 480.
Garment-protector. M. Zwicke. No. 1,351,982; Sept. 7; v. 278; p. 53.
Garment-shield. V. Guinzburg. No. 1,363,727; Dec. 28; v. 281; p. 679.
Garment-stretcher. D. J. Starr. No. 1,330,356; Feb. 10; v. 271; p. 220.
Garment support and stretcher. M. Leth. No. 1,343,397; June 15; v. 275; p. 466.
Garment-supporter. W. F. Ade. No. 1,341,406; May 25; v. 274; p. 725.
Garment-supporter. J. Atzel. No. 1,328,504; Jan. 20; v. 270; p. 403.
Garment-supporter. G. R. Bonebright. No. 1,344,856; June 29; v. 275; p. 882.
Garment-supporter. R. T. Clarke. No. 1,362,925; Dec. 21; v. 281; p. 482.
Garment-supporter. J. H. Elliott. No. 1,331,457; Feb. 17; v. 271; p. 495.
Garment-supporter. J. F. Godward. No. 1,337,901; Apr. 20; v. 273; p. 551.
Garment-supporter. G. Hake. No. 1,337,131; Apr. 13; v. 273; p. 331.
Garment-supporter. J. W. MacBoyle. No. 1,327,959; Jan. 13; v. 270; p. 253.
Garment-supporter. F. W. Miller. No. 1,336,312; Apr. 6; v. 273; p. 115.
Garment-supporter. A. Oberg. No. 1,358,775; Nov. 16; v. 280; p. 414.
Garment-supporter. H. J. Reed. No. 1,347,911; July 27; v. 276; p. 688.
Garment-supporter. J. M. Regan. No. 1,353,070; Sept. 14; v. 278; p. 300.
Garment supporter and fastener. J. K. Seymour. No. 1,346,342; July 13; v. 276; p. 262.
Garment-supporting clasp. G. Hake. No. 1,362,298; Dec. 14; v. 281; p. 310.
Garment-trimming machine. S. Elman. No. 1,338,291; Apr. 27; v. 273; p. 694.
Garment-turning machines, Attachment for. W. A. Barnett. No. 1,342,937; June 8; v. 275; p. 313.
Garment, Union-. G. H. Heatly. No. 1,350,020. Aug. 17; v. 277; p. 498.
Garment, Waterproof. B. A. Bittan. No. 1,360,715; Nov. 30; v. 280; p. 907.
Garment, Waterproof. M. Kriger. No. 1,329,777; Feb. 3; v. 271; p. 80.
Garment, Waterproof. D. L. MacCallum. No. 1,348,818; Aug. 3; v. 277; p. 132.
Garments and ruler therefor, Laying out. I. Starer. No. 1,360,327; Nov. 30; v. 280; p. 831.
Garments, Machine for pressing. J. B. Spencer. No. 1,326,982; Jan. 6; v. 270; p. 20.
Garments, Machine for stitching collarets to. W. W. Scott and A. J. Wohlpart. No. 1,361,411; Dec. 7; v. 281; p. 86.
Garments, Pin-receiving tab for. H. Merkel and J. Buecher. No. 1,353,930; Sept. 28; v. 278; p. 574.
Garter. L. S. Florsheim. No. 1,363,241; Dec. 28; v. 281; p. 585.
Garter. R. Gorton. No. 1,351,567; Aug. 31; v. 277; p. 904.
Garter. K. Leins. No. 1,353,483; Sept. 21; v. 278; p. 440.
Garter. R. W. Merritt. No. 1,340,455; May 18; v. 274; p. 472.
Garter. P. E. Rosen. No. 1,351,872; Sept. 7; v. 278; p. 32.
Garter. W. H. Stevens. No. 1,328,931; Jan. 27; v. 270; p. 518.
Garter. B. C. and U. V. Taylor. No. 1,357,745; Nov. 2; v. 280; p. 103.
Garter. J. M. Van Heusen. No. 1,357,929; Nov. 2; v. 280; p. 139.
Garter attachment. D. C. Evans. No. 1,354,095; Sept. 28; v. 278; p. 608.
Garter-fastening. J. I. Kelley. No. 1,346,657; July 13; v. 276; p. 324.
Garter, Lady's. M. de los S. Enriquez. No. 1,338,858; May 4; v. 274; p. 39.
Garter-lock. A. Rosen. No. 1,332,955; Mar. 9; v. 272; p. 201.
Garter, Metal and elastic. R. J. McCredie. No. 1,357,293; Nov. 2; v. 280; p. 18.
Garter, Washable. C. H. Gill. No. 1,361,713; Dec. 7; v. 281; p. 147.
Garters, Making. R. Gorton. No. 1,352,258; Sept. 7; v. 278; p. 105.
Gas-analyzer, Automatic. S. S. Weeks. No. 1,345,047; June 29; v. 275; p. 918.
Gas-analysis apparatus. O. Rodhe. No. 1,340,838; May 18; v. 274; p. 544.
Gas-analyzing apparatus, Automatic. O. Rodhe. No. 1,351,129; Aug. 31; v. 277; p. 816.
Gas and a liquid, Producing interactions between. P. W. Webster and V. K. Boynton. No. 1,361,940; Dec. 14; v. 281; p. 239.
Gas and coal range, Combined. F. G. Nicolaus and J. Roy. No. 1,363,905; Dec. 28; v. 281; p. 713.
Gas and crude-oil burner, Combustion. R. F. Runyan. No. 1,339,580; May 11; v. 274; p. 274; v. 249.
Gas and liquid contact apparatus. G. E. Darier. No. 1,327,422; Jan. 6; v. 270; p. 101.
Gas and liquid contact device. C. J. Goodwin. No. 1,360,928; Nov. 30; v. 280; p. 948.
Gas and making same, Refrigerating-. A. G. Crawford. (Reissue.) No. 14,955; Oct. 12; v. 279; p. 318.
Gas, Apparatus for generating illuminating-. A. A. Birkholz. No. 1,355,530; Oct. 12; v. 279; p. 266.
Gas, Apparatus for manufacturing. W. D. Wilcox. No. 1,332,369; Mar. 2; v. 272; p. 36.
Gas, Apparatus for manufacture of. M. C. Whitaker and W. F. Rittman. No. 1,348,766; Aug. 3; v. 277; p. 122.
Gas-battery. P. A. Emanuel. No. 1,359,881; Nov. 23; v. 280; p. 675.
Gas-burner. J. H. Ackroyd. No. 1,343,700; June 15; v. 275; p. 526.
Gas-burner. W. J. Barber. No. 1,342,617; June 8; v. 275; p. 248.
Gas-burner. J. A. Beaton. No. 1,332,791; Mar. 2; v. 272; p. 118.
Gas-burner. C. F. Brand. No. 1,348,261; Aug. 3; v. 277; p. 26.
Gas-burner. J. Brombacher. No. 1,329,649; Feb. 3; v. 271; p. 57.
Gas-burner. J. Byers. No. 1,352,351; Sept. 7; v. 278; p. 122.
Gas-burner. G. W. Calef. No. 1,351,715; Aug. 31; v. 277; p. 932.
Gas-burner. C. C. Chappelle. No. 1,353,217; Sept. 21; v. 278; p. 389.
Gas-burner. J. A. Fry. No. 1,342,436; June 8; v. 275; p. 214.
Gas-burner. D. B. Igou. No. 1,340,226; May 18; v. 274; p. 429.
Gas-burner. I. Lundgaard. No. 1,340,902; May 25; v. 274; p. 627.
Gas-burner. C. M. MacCamey. No. 1,359,405; Nov. 16; v. 280; p. 535.
Gas-burner. J. T. Masterson. No. 1,351,431; Aug. 31; v. 277; p. 877.
Gas-burner. M. A. Moore. No. 1,346,761; July 13; v. 276; p. 345.
Gas-burner. H. A. Musser. No. 1,359,417; Nov. 16; v. 280; p. 538.
Gas-burner. H. A. Robinson. No. 1,329,096; Jan. 27; v. 270; p. 543.
Gas-burner. B. L. Shannon. No. 1,337,801; Apr. 20; v. 273; p. 532.
Gas-burner. H. C. Smith. No. 1,356,793; Oct. 26; v. 279; p. 600.
Gas-burner. E. G. Stahlman. No. 1,329,641; Feb. 3; v. 271; p. 55.
Gas-burner. G. H. Stevens. No. 1,350,678; Aug. 24; v. 277; p. 667.
Gas-burner. E. J. Volk. No. 1,341,089; May 25; v. 274; p. 664.
Gas-burner. L. Wilson. No. 1,350,051; Aug. 17; v. 277; p. 449.
Gas-burner. C. V. Witt. No. 1,360,981; Nov. 30; v. 280; p. 959.
Gas-burner and body-covering therefor. J. H. Ackroyd. No. 1,335,869; Apr. 6; v. 273; p. 31.
Gas-burner, Blue-flame. G. Baker. No. 1,330,048; Feb. 10; v. 271; p. 163.
Gas burner, Oxygen-. J. Trost. No. 1,359,128; Nov. 16; v. 280; p. 481.
Gas-burners and electric lights, Shade-support for. F. J. Gould and E. S. Stamp. No. 1,336,885; Apr. 13; v. 273; p. 274.
Gas-burners, Delayed cut-off for Bunsen. R. D. Smith. No. 1,340,843; May 18; v. 274; p. 545.
Gas-burners, Time-retarded extinguishing device for. M. H. Baker. No. 1,350,589; Aug. 24; v. 277; p. 651.
Gas-burning apparatus. H. V. Deemar. No. 1,341,266; May 25; v. 274; p. 697.
Gas-burning device. L. A. Phillips. No. 1,333,218; Mar. 9; v. 272; p. 249.
Gas-burning furnace. A. L. Stevens. No. 1,356,568; Oct. 26; v. 279; p. 556.
Gas-burning heater. J. C. Tate. No. 1,349,862; Aug. 17; v. 277; p. 463.

Digitized by Google

Gas, Condensing a vapor in a natural. J. T. Duffy. No. 1,356,196; Oct. 19; v. 279; p. 437.
Gas-conduits, Apparatus for automatically opening and closing. G. Dalén. No. 1,342,160; June 1; v. 275; p. 108.
Gas-control system. H. F. Smith. No. 1,348,379; Aug. 3; v. 277; p. 49.
Gas-controller, Automatic. E. T. Ofeldt. No. 1,346,051; July 6; v. 276; p. 143.
Gas-cookers, Device for automatic extinction or dampening of the flame in. A. C. E. Hojgaard. No. 1,352,001; Sept. 7; v. 278; p. 57.
Gas-cutting apparatus, Pantographic. W. C. Bucknam. No. 1,333,899; Mar. 16; v. 272; p. 438.
Gas, Drying. F. C. Frary. No. 1,359,047; Nov. 16; v. 280; p. 466.
Gas-engine. N. Arbeitel. No. 1,359,309; Nov. 16; v. 280; p. 516.
Gas-engine. W. Boyd. No. 1,345,345; July 6; v. 276; p. 4.
Gas-engine. C. Britt. No. 1,329,364; Feb. 3; v. 271; p. 5.
Gas-engine. G. A. Kemmer. No. 1,357,993; Nov. 9; v. 280; p. 212.
Gas-engine. G. L. Meyer. No. 1,342,922; June 8; v. 275; p. 310.
Gas-engine. P. R. Peterson. No. 1,347,055; July 20; v. 276; p. 462.
Gas-engine. L. W. Porter. No. 1,338,089; Apr. 27; v. 273; p. 647.
Gas-engine. M. H. Richardson. No. 1,360,316; Nov. 30; v. 280; p. 829.
Gas-engine. C. P. Skublin. No. 1,345,266; June 29; v. 275; p. 961.
Gas-engine. H. L. Thompson. No. 1,342,977; June 8; v. 275; p. 320.
Gas-engine attachment. E. E. Doland. No. 1,334,855; Mar. 23; v. 272; p. 570.
Gas-engine crank-case-charging device. W. H. Hunt. No. 1,360,217; Nov. 23; v. 280; p. 741.
Gas-engine, Double-piston. J. M. Johnson. No. 1,329,974; Feb. 3; v. 271; p. 117.
Gas-engine ignition. G. L. Meyer. No. 1,349,846; Aug. 17; v. 277; p. 459.
Gas-engine, Rotary. J. Deubel. No. 1,362,400; Dec. 14; v. 281; p. 329.
Gas-engine, Rotary. H. E. Osborne. No. 1,350,880; Aug. 24; v. 277; p. 705.
Gas-engine, Variable-compression. J. A. Charter. No. 1,360,366; Nov. 30; v. 280; p. 838.
Gas-engines, Apparatus for moistening carbureted mixtures for. W. Millard. No. 1,329,252; Jan. 27; v. 270; p. 573.
Gas-fixture. W. Kennedy. No. 1,356,153; Oct. 19; v. 279; p. 428.
Gas-fixture and fuel-hose therefor. C. Stichler. No. 1,337,288; Apr. 20; v. 273; p. 435.
Gas for cutting and welding purposes. J. Harris. No. 1,329,400; Feb. 3; v. 271; p. 10.
Gas for heating purposes, Process and apparatus for burning. M. W. Pitner. No. 1,338,327; Apr. 27; v. 273; p. 701.
Gas from coal and analogous substances, Means to generate. J. H. Corthesy. No. 1,360,503; Nov. 30; v. 280; p. 866.
Gas-furnace. G. W. McKee. No. 1,334,309; Mar. 23; v. 272; p. 561.
Gas, Generating. H. Batchelor. No. 1,352,241; Sept. 7; v. 278; p. 102.
Gas-generating apparatus. H. J. Kotschevar. No. 1,357,998; Nov. 9; v. 280; p. 213.
Gas-generator. G. H. Bentley and E. G. Appleby. No. 1,343,995; June 22; v. 275; p. 649.
Gas-generator. H. M. Smith. No. 1,349,923; Aug. 17; v. 277; p. 473.
Gas-generator. V. Auger. No. 1,355,443; Oct. 279; p. 249.
Gas-generator. J. F. Smith. No. 1,327,117; Jan. 6; v. 270; p. 45.
Gas-generator. T. R. Wollaston. No. 1,327,893; Jan. 13; v. 270; p. 250.
Gas generator, Acetylene-. H. F. Prillwitz. No. 1,360,682; Nov. 30; v. 280; p. 900.
Gas generator and burner. E. E. Small. No. 1,329,862; Feb. 3; v. 271; p. 97.
Gas generator and burner, Hydrocarbon-. H. C. Sillett and A. W. Cowan. No. 1,346,770; July 13; v. 276; p. 347.
Gas, Generator for producing water. E. Dolensky. No. 1,362,089; Dec. 14; v. 281; p. 269.
Gas-generator, Pulverized-fuel. N. F. X. Beauregard. No. 1,351,460; Aug. 31; v. 277; p. 883.
Gas-handling apparatus. C. W. Hinman. No. 1,341,056; May 25; v. 274; p. 657.
Gas-heated boiler. T. M. Mayer. No. 1,342,342; June 1; v 275; p. 142.
Gas-heater. J. W. Ashbaugh. No. 1,330,228; Feb. 10; v. 271; p. 197.
Gas-heater. W. D. Antrim. No. 1,362,214; Dec. 14; v. 281; p. 293.
Gas-heater. G. Checkley. No. 1,335,091; Mar. 30; v. 272; p. 770.
Gas-heater. B. Columbus. No. 1,335,427; Mar. 30; v. 272; p. 832.
Gas-heater. L. Lebau. No. 1,342,121; June 1; v. 275; p. 100.
Gas-heater. A. Leistmann. No. 1,346,456; July 13; v. 276; p. 284.
Gas-heater. C. M. Mogni. No. 1,344,555; June 22; v. 275; p. 759.
Gas-heater. J. W. Platt. No. 1,352,473; Sept. 14; v. 278; p. 181.
Gas-heater. C. Klauberg. No. 1,357,329; Nov. 2; v. 280; p. 25.
Gas-heater. J. I. Robin. No. 1,351,004; Aug. 24; v. 277; p. 729.
Gas-heater. J. I. Robin. No. 1,351,005; Aug. 24; v. 277; p. 729.
Gas-heater burner. J. F. Adams. No. 1,361,804; Dec. 14; v. 281; p. 212.
Gas heater for automobiles, Exhaust-. F. L. Montross. No. 1,339,122; May 4; v. 274; p. 89.
Gas-heater, Portable. P. Bernstein. No. 1,346,587; July 13; v. 276; p. 310.
Gas, Heating-stove burning. F. M. Lea. No. 1,351,525; Aug. 31; v. 277; p. 896.
Gas-holder. F. C. Frary. No. 1,337,975; Apr. 20; v. 273; p. 566.
Gas-jets, Device for igniting. M. Fischer. No. 1,327,813; Jan. 13; v. 270; p. 236.
Gas-leakage, Apparatus for testing. G. W. Christians. No. 1,329,160; Jan. 27; v. 270; p. 555.
Gas-lighter. J. O. Delén. No. 1,360,197; Nov. 23; v. 280; p. 737.
Gas-lighter and safety cut-off device, Automatic. P. P. Catalano. No. 1,347,532; July 27; v. 276; p. 612.
Gas-lighter for burners. C. C. Matlock. No. 1,362,538; Dec. 14; v. 281; p. 356.
Gas-lighting device. T. Stites and E. L. Knoedler. No. 1,327,447; Jan. 6; v. 270; p. 105.
Gas-lighting device and making same. G. Blumrick. No. 1,350,853; Aug. 24; v. 277; p. 701.
Gas, Making or treating producer-. W. B. Chapman and D. Mason. No. 1,361,137; Dec. 7; v. 281; p. 31.
Gas-mantle. L. Glaser. No. 1,335,831; Apr. 6; v. 273; p. 24.
Gas, Manufacture of. W. F. Rittman. No. 1,329,853; Feb. 3; v. 271; p. 95.
Gas, Manufacture of. M. C. Whitaker and W. F. Rittman. No. 1,327,001; Jan. 6; v. 270; p. 28.
Gas-manufacturing, Purifying method and apparatus for. F. A. Umsted. No. 1,332,529; Mar. 2; v. 272; p. 68.
Gas-mask. J. M. McGargill. No. 1,362,766; Dec. 21; v. 281; p. 453.
Gas-meter. J. R. Armstrong. No. 1,342,886; June 8; v. 275; p. 303.
Gas-meter. R. A. Culleton and D. J. Leahy. No. 1,351,842; Sept. 7; v. 278; p. 25.
Gas-meter. G. A. Lane. No 1,347,340; July 20; v. 276; p. 518.
Gas-meter. G. W. Zebold. No. 1,360,612; Nov. 30; v. 280; p. 887.
Gas-meter mechanism. S. J. Pocock. No. 1,344,714; June 29; v. 275; p. 856.
Gas-meter, Two-cycle. H. I. Sawyer. No. 1,360,689; Nov. 30; v. 280; p. 902.
Gas-meters, Fitting for domestic. W. A. Ashley. No. 1,350,132; Aug. 17; v. 277; p. 514.
Gas-meters, Motor for. L. Rasch. No. 1,355,165; Oct. 12; v. 279; p. 195.
Gas-meters, Pressure-correcting device for high-pressure. F. A. Easton. No. 1,355,075; Oct. 5; v. 279; p. 124.
Gas-meters, Tangent-post for. H. Chrisman. No. 1,350,067; Aug. 17; v. 277; p. 502.
Gas-metering apparatus. L. A. Ferguson and H. S. Sines. No. 1,327,989; Jan. 13; v. 270; p. 268.
Gas, Method and apparatus for cooling. A. W. Warner. No. 1,362,207; Dec. 14; v. 281; p. 292.
Gas, Method and means for producing electrified jets of. R. H. Goddard. No. 1,363,037; Dec. 21; v. 281; p. 506.
Gas-mixer. W. S. Granger. No. 1,329,324; Jan. 27; v. 270; p. 585.
Gas-mixer. J. Needham. No. 1,355,998; Oct. 19; v. 279; p. 397.
Gas-mixer. J. Schurs. No. 1,357,351; Nov. 2; v. 280; p. 29.
Gas mixtures containing oxids of nitrogen, Process of and apparatus for treating. C. L. Burdick. No. 1,339,494; May 11; v. 274; p. 232.
Gas or oil burner. H. Forester. No. 1,327,092; Jan. 6; v. 270; p. 40.
Gas or vapor heater. L. P. Lowe. (Reissue.) No. 14,903; June 29; v 275; p. 975.
Gas-pressure regulator, Automatic. H. Burgi. No. 1,346,529; July 13; v. 276; p. 299.
Gas-pressures, Method and apparatus for measuring. H. D. Arnold. No. 1,356,687; Oct. 26; v. 279; p. 579.
Gas, Process of and apparatus for producing carbon-dioxid. R. C. Newhouse. No. 1,332,138; Feb. 24; v. 271; p. 643.
Gas-producer. G. H. Benjamin. No. 1,329,744; Feb. 3; v. 271; p. 74.
Gas-producer. W. B. Chapman. No. 1,341,044; May 25; v. 274; p. 655.
Gas-producer. W. Climie. No. 1,327,861; Jan. 13; v. 270; p. 245.
Gas-producer. T. Clouston. No. 1,362,559; Dec. 14; v. 281; p. 360.

Digitized by Google

Gas-producer. E. H. Crush. No. 1,349,497; Aug. 10; v. 277; p. 319.
Gas-producer. S. B. Sheldon. No. 1,350,472; Aug. 24; v. 277; p. 628.
Gas-producer. S. B. Sheldon. No. 1,350,474; Aug. 24; v. 277; p. 628.
Gas-producer. S. B. Sheldon. No. 1,350,475; Aug. 24; v. 277; p. 628.
Gas-producer arrangement. S. B. Sheldon. No. 1,350,473; Aug. 24; v. 277; p. 628.
Gas-producers, Feeding mechanism for. J. F. Rogers. No. 1,330,749; Feb. 10; v. 271; p. 294.
Gas-producers, Mechanical coal-feed on. I. Williams. No. 1,362,458; Dec. 14; v. 281; p. 340.
Gas, Producing. O. U. Bean. No. 1,337,587; Apr. 20; v. 273; p. 482.
Gas, Producing carbon-hydrogen. T. O'Connell. No. 1,340,495; May 18; v. 274; p. 479.
Gas purification. H. F. Smith. No. 1,358,030; Nov. 9; v. 280; p. 220.
Gas purification. H. F. Smith. No. 1,358,031; Nov. 9; v. 280; p. 220.
Gas purification. H. F. Smith. No. 1,358,032; Nov. 9; v. 280; p. 220.
Gas, Purification of. H. L. Doherty. No. 1,360,734; Nov. 30; v. 280; p. 911.
Gas-range frame. J. Roy. No. 1,333,507; Mar. 9; v. 272; p. 304.
Gas-regulator. J. Denton and A. L. Skinner. No. 1,349,945; Aug. 17; v. 277; p. 478.
Gas-regulator, Automobile. R. F. Hoffman. No. 1,358,953; Nov. 16; v. 280; p. 449.
Gas-regulator, Automatic. W. Kane. No. 1,361,386; Dec. 7; v. 281; p. 71.
Gas-retorts, Apparatus for maintaining predetermined pressure conditions in. A. A. Macintosh and W. H. Hunt. No. 1,329,129; Jan. 27; v. 270; p. 550.
Gas-saver. G. Eagar. No. 1,339,441; May 11; v. 274; p. 222.
Gas-saving and heat-retaining device. H. Oshige. No. 1,353,265; Sept. 21; v. 278; p. 398.
Gas-screen. T. A. Brooks. No. 1,350,700; Aug. 24; v. 277; p. 672.
Gas, Solvent for acetylene. H. S. Smith and G. O. Curme, Jr. No. 1,332,525; Mar. 2; v. 272; p. 68.
Gas-tap-locking device. J. and G. Martin. No. 1,344,704; June 29; v. 275; p. 853.
Gas-toaster. A. H. Wolff. No. 1,353,203; Sept. 21; v. 278; p. 386.
Gas turbine-engine. W. J. Dodge. No. 1,353,733; Sept. 21; v. 278; p. 491.
Gas-washing apparatus. J. S. Kennedy. No. 1,339,112; May 4; v. 274; p. 87.
Gases, Absorption of nitrous. J. L. la Cour. No. 1,348,227; Aug. 3; v. 277; p. 19.
Gases and treating solutions therewith, Generating. H. R. Hanley. No. 1,360,524; Nov. 30; v. 280; p. 870.
Gases and vapors from liquids, Apparatus for separating. T. K. Smith. No. 1,350,576; Aug. 24; v. 277; p. 649.
Gases, Apparatus for bringing about and controlling reactions between. C. Conover. No. 1,363,955; Dec. 28; v. 281; p. 723.
Gases, Apparatus for cleaning. G. W. Hewitt and A. Steinbart. No. 1,344,585; June 22; v. 275; p. 765.
Gases, Apparatus for cleaning. F. R. McGee. No. 1,333,825; Mar. 9; v. 272; p. 269.
Gases, Apparatus for cooling and scrubbing. A. W. Hunt and D. E. Fogg. No. 1,327,599; Jan. 6; v. 270; p. 34.
Gases, Apparatus for electrical treatment of. J. G. Davidson. No. 1,334,231; Mar. 16; v. 272; p. 500.
Gases, Apparatus for electrical treatment of. W. A. Schmidt. No. 1,329,859; Feb. 3; v. 271; p. 96.
Gases, Apparatus for precipitating suspended particles from. A. F. Meston. No. 1,357,886; Nov. 2; v. 280; p. 131.
Gases, Apparatus for preparation of inert. E. E. Molas. No. 1,327,769; Jan. 13; v. 270; p. 228.
Gases, Art of precipitating suspended material from. E. R. Wolcott. No. 1,329,817; Feb. 3; v. 271; p. 88.
Gases, Apparatus for purifying. H. F. Smith. No. 1,348,966; Aug. 10; v. 277; p. 214.
Gases, Apparatus for the separation of mixed. F. E. Norton. No. 1,354,058; Sept. 28; v. 278; p. 600.
Gases, Apparatus for separating suspended particles from. W. A. Schmidt and G. C. Roberts. No. 1,343,482; June 15; v. 275; p. 482.
Gases, Apparatus for the electrical treatment of. H. W. Squires. No. 1,342,651; June 8; v. 275; p. 255.
Gases, Apparatus for the separation of mixed. F. E. Norton. No. 1,354,059; Sept. 28; v. 278; p. 600.
Gases by electric discharge, Apparatus for the treatment of. E. E. Werner. No. 1,363,827; Dec. 28; v. 281; p. 698.
Gases, Catalytically combining. A. Heawood. No. 1,347,160; July 20; v. 276; p. 482.
Gases, Collecting suspended material from furnace-. E. R. Wolcott. No. 1,329,818; Feb. 3; v. 271; p. 88.
Gases, Electrical deposition of particles from. L. Lodge. No. 1,345,790; July 6; v. 276; p. 91.
Gases from vessels, Arrangement for evacuating. H. Gerdien. No. 1,335,829; Apr. 6; v. 273; p. 24.
Gases, Handling and utilising combustible. C. Conover. No. 1,363,313; Dec. 28; v. 281; p. 699.
Gases, Means for electrical treatment of. L. Bradley. No. 1,333,790; Mar. 16; v. 272; p. 418.
Gases, Means for separating suspended matter from. W. A. Schmidt. No. 1,343,285; June 15; v. 275; p. 444.
Gases, Method and apparatus for electrical treatment of. L. Bradley. No. 1,329,825; Feb. 3; v. 271; p. 90.
Gases, Method of and apparatus for analyzing. C. W. Heath. No. 1,342,539; June 8; v. 275; p. 234.
Gases, Method of and apparatus for automatically removing. W. K. Kearsley, Jr. No. 1,357,710; Nov. 2; v. 280; p. 96.
Gases, Method of and apparatus for cleaning. F. R. McGee. No. 1,338,148; Apr. 27; v. 278; p. 666.
Gases of coal, Purification of distillation-. E. Ciselet and C. Deguide. No. 1,349,750; Aug. 17; v. 277; p. 442.
Gases, Precipitating suspended material from. E. R. Wolcott. No. 1,331,225; Feb. 17; v. 271; p. 471.
Gases, Precipitating suspended material from furnace-. E. R. Wolcott. No. 1,329,737; Feb. 3; v. 271; p. 78.
Gases, Process and apparatus for producing inert. J. J. Shea. No. 1,356,888; Oct. 26; v. 279; p. 619.
Gases, Separating mixed. F. E. Norton. No. 1,354,056; Sept. 28; v. 278; p. 599.
Gases, Separating mixed. F. E. Norton. No. 1,354,057; Sept. 28; v. 278; p. 599.
Gases, Separating suspended particles from. E. Möller. No. 1,357,466; Nov. 2; v. 280; p. 50.
Gases, Separating suspended particles from. W. A. Schmidt. No. 1,339,480; May 11; v. 274; p. 230.
Gases, Treating liquids with. W. E. Greenawalt. No. 1,344,031; June 22; v. 275; p. 656.
Gases with liquids, Apparatus for treating. G. H. Walker. No. 1,353,685; Sept. 21; v. 278; p. 482.
Gaseous and fluid bodies, Apparatus for the electrical precipitation of suspended matter in. A. F. Nesbit. No. 1,356,462; Oct. 19; v. 279; p. 488.
Gaseous combustion. A. C. Ionides, Jr. No. 1,347,955; July 27; v. 276; p. 696.
Gaseous compounds, Process and apparatus for the oxidation and reduction of. W. Koehler. No. 1,332,730; Mar. 2; v. 272; p. 106.
Gaseous fluids, Electric means for the separation of suspended matter from. E. Möller. No. 1,362,128; Dec. 14; v. 281; p. 277.
Gaseous-fuel burner. E. T. Curran. No. 1,337,824; Apr. 20; v. 273; p. 536.
Gaseous-fuel generator. E. W. Thomas. No. 1,356,239; Oct. 19; v. 279; p. 446.
Gaseous mixer device. F. M. Livingstone. No. 1,345,791; July 6; v. 276; p. 91.
Gaseous mixtures, Continual process of fractionally distilling. W. Lachmann. No. 1,363,659; Dec. 28; v. 281; p. 665.
Gaseous mixtures, Method and means for analyzing. A. M. Kennedy. No. 1,333,850; Mar. 16; v. 272; p. 429.
Gasifier, Combined gasket and oil-. E. Raba. No. 1,329,343; Jan. 27; v. 270; p. 588.
Gasket. P. J. Fitzgerald. No. 1,338,617; Apr. 27; v. 273; p. 755.
Gasket. G. S. Garren. No. 1,339,599; May 11; v. 274; p. 253.
Gasket. J. Hochberger. No. 1,362,623; Dec. 21; v. 281; p. 424.
Gasket, Composite non-metallic. F. N. Bard. No. 1,346,523; July 13; v. 276; p. 298.
Gasket. Composite non-metallic. F. N. Bard. No. 1,346,524; July 13; v. 276; p. 298.
Gasket for flexible joints. F. N. Bard. No. 1,347,470; July 20; v. 276; p. 543.
Gasket for inflation-tube connections. A. A. Ewald. No. 1,344,028; June 22; v. 275; p. 655.
Gasolene and other products from hydrocarbons, Apparatus for producing. A. A. Daugherty. No. 1,353,638; Sept. 21; v. 278; p. 472.
Gasolene, Apparatus for testing. P. Harrison. No. 1,355,554; Oct. 12; v. 279; p. 271.
Gasolene, Apparatus for the manufacture of. R. F. Bacon, B. W. Brooks, and C. W. Clark. No. 1,334,731; Mar. 23; v. 272; p. 640.
Gasolene carried in casing-gas, Apparatus for determining the amount of. D. L. Newton. No. 1,330,490; Feb. 10; v. 271; p. 245.
Gasolene, Cleaning. M. Leitch. No. 1,351,047; Aug. 31; v. 277; p. 801.
Gasolene, Compressed-air device for handling. W. H. Pridgen. No. 1,350,517; Aug. 24; v. 277; p. 686.
Gasolene-delivering tank. K. W. Smith. No. 1,338,878; May 4; v. 274; p. 42.
Gasolene-dispenser. C. M. Eggleston. No. 1,327,425; Jan. 6; v. 270; p. 101.
Gasolene-dispensing apparatus. J. H. Brady. No. 1,331,615; Feb. 24; v. 271; p. 545.
Gasolene-dispensing apparatus. L. M. Kavanagh. No. 1,344,949; June 29; v. 275; p. 900.
Gasolene-dispensing device. J. Black. No. 1,344,478; June 22; v. 275; p. 744.
Gasolene-dispensing device. G. E. Mittinger. No. 1,360,134; Nov. 23; v. 280; p. 725.
Gasolene, Electric system for storage and measurement of. G. F. Clamer. No. 1,338,814; May 4; v. 274; p. 31.
Gasolene-engine. A. L. Craig. No. 1,360,895; Nov. 30; v. 280; p. 942.

Digitized by Google

Gasolene-engine. B. W. Hendricks. No. 1,359,890; Nov. 23; v. 280; p. 677.
Gasolene-feed. S. I. Stokes, and J. J. Wyatt. No. 1,341,393; May 25; v. 274; p. 723.
Gasolene-feed tank, Vacuum. J. Shephard. No. 1,358,118; Nov. 9; v. 280; p. 237.
Gasolene from casing-head gas in oil-wells, Apparatus for recovery of. W. R. McGinnis. No. 1,328,680; Jan. 20; v. 270; p. 436.
Gasolene from natural gas, Obtaining. J. B. Garner and H. C. Cooper. No. 1,332,290; Mar. 2; v. 272; p. 22.
Gasolene from natural gases, Apparatus for recovering. A. B. Cross. No. 1,327,906; Jan. 13; v. 270; p. 253.
Gasolene-gage and filling-spout. O. C. Ritz-Woller. No. 1,335,196; Mar. 30; v. 272; p. 789.
Gasolene manufacture. J. W. Trotter. No. 1,339,727; May 11; v. 274; p. 277.
Gasolene, Manufacture of. G. H. Taber, Jr. No. 1,363,487; Dec. 28; v. 281; p. 632.
Gasolene, Manufacture of. F. E. Wellman. No. 1,362,160; Dec. 14; v. 281; p. 282.
Gasolene-measuring device. J. C. McKallip. No. 1,352,820; Sept. 14; v. 278; p. 251.
Gasolene-motor. J. E. Lehman. No. 1,332,265; Mar. 2; v. 272; p. 17.
Gasolene-motors, Mechanically-driven feed device for. R. J. C. Tampler. No. 1,363,694; Dec. 28; v. 281; p. 672.
Gasolene or light vapors, Art of and appliances for cooling and condensing. A. A. Wehr. No. 1,340,427; May 18; v. 274; p. 467.
Gasolene-renovator. T. Le Vora. No. 1,357,101; Oct. 26; v. 279; p. 660.
Gasolene systems, Strainer for vacuum. A. L. Steward. No. 1,328,853; Jan. 27; v. 270; p. 497.
Gasolene-tank gage. M. H. Cleaver. No. 1,358,829; Nov. 16; v. 280; p. 425.
Gate: *See*—

Adjustable gate.	Railway-gate.
Ash-gate.	Railway-crossing gate.
Automatic gate.	Safety-gate.
Automatic safety-gate.	Sag-gate.
Canal-gate.	Self-opening gate.
Car-gate.	Swinging gate.
Crossing-gate.	Tide or backwater gate.
Drive-gate.	Train-gate.
End-gate.	Vehicle end-gate.
Farm-gate.	Wagon end-gate.
Fence-gate.	Water-gate.
Flood-gate	

Gate. D. E. Bentzel. No. 1,347,438; July 20; v. 276; p. 537.
Gate. M. H. Bodley. No. 1,351,612; Aug. 31; v. 277; p. 913.
Gate. J. H. Burke. No. 1,330,843; Feb. 17; v. 271; p. 379.
Gate. L. Chounard. No. 1,329,263; Jan. 27; v. 270; p. 575.
Gate. W. S. Edelblute. No. 1,334,846; Mar. 23; v. 272; p. 663.
Gate. F. T. Fay. No. 1,355,953; Oct. 19; v. 279; p. 388.
Gate. H. C. Haines. No. 1,334,998; Mar. 30; v. 272; p. 752.
Gate. D. Jordan. No. 1,343,367; June 15; v. 275; p. 460.
Gate. A. W. Kroon. No. 1,328,168; Jan. 13; v. 270; p. 393.
Gate. C. A. McCann. No. 1,350,323; Aug. 24; v. 277; p. 597.
Gate. L. L. Millard. No. 1,359,089; Nov. 16; v. 280; p. 474.
Gate. A. Nelson. No. 1,357,108; Oct. 26; v. 279; p. 662.
Gate. J. H. Pickett. No. 1,350,235; Aug. 17; v. 277; p. 534.
Gate. W. Pope. No. 1,335,350; Mar. 30; v. 272; p. 818.
Gate. J. F. Smyth. No. 1,332,077; Feb. 24; v. 271; p. 632.
Gate. S. Solberg. No. 1,330,146; Feb. 10; v. 271; p. 181.
Gate. W. R. Spickler. No. 1,332,770; Mar. 2; v. 272; p. 114.
Gate. W. E. White. No. 1,352,233; Sept. 7; v. 278; p. 100.
Gate-actuating mechanism. F. L. Ohler. No. 1,358,776; Nov. 16; v. 280; p. 414.
Gate and clip therefor, Scoop-. O. K. Grove. No. 1,343,263; June 15; v. 275; p. 440.
Gate and hinge construction. S. A. Slauson. No. 1,345,559; July 6; v. 276; p. 46.
Gate and shoveling-board, Combined end-. H. H. Johnson. No. 1,351,656; Aug. 31; v. 277; p. 921.
Gate closer and supporter. R. P. Bellican. No. 1,350,134; Aug. 17; v. 277; p. 515.
Gate-fastener. A. Nellis. No. 1,339,781; May 11; v. 274; p. 288.
Gate fastener, End-. G. Bowden. No. 1,327,079; Jan. 6; v. 270; p. 38.
Gate fastener, End-. L. P. Wells. No. 1,332,786; Mar. 2; v. 272; p. 117.
Gate-hanger. W. H. Raley. No. 1,342,227; June 1; v. 275; p. 121.
Gate-hook. H. R. Grenard. No. 1,334,997; Mar. 30; v. 272; p. 752.
Gate-opening device. G. Parker. No. 1,362,133; Dec. 14; v. 281; p. 278.
Gate-operating device. D. Jordan and W. E. Belden. No. 1,334,460; Mar. 23; v. 272; p. 590.
Gate-operating device. A. J. Wilbanks. No. 1,331,836; Feb. 24; v. 271; p. 587.
Gate-operating mechanism. F. B. Gilbert. No. 1,337,897; Apr. 20; v. 273; p. 550.
Gate-operating mechanism, Automatic. E. P. Sawhill. No. 1,362,441; Dec. 14; v. 281; p. 337.
Gate-securing means, End-. S. E. Urbaniak. No. 1,360,474; Nov. 30; v. 280; p. 860.
Gate-valve lock. F. R. McCarthy and E. C. Combs. No. 1,357,463; Nov. 2; v. 280; p. 50.
Gates, Safety attachment for railway-. A. C. Mills. No. 1,356,302; Oct. 19; v. 279; p. 458.
Gathering and conveying material, Apparatus for. F. L. Stuart. No. 1,346,390; July 13; v. 276; p. 271.
Gathering apparatus. E. F. Harrison. No. 1,337,452; Apr. 20; v. 273; p. 465.
Gauze-folding machine. M. Willner. No. 1,357,757; Nov. 2; v. 280; p. 106.
Gear. E. F. Beall. No. 1,360,358; Nov. 30; v. 280; p. 836.
Gear. J. F. Franklin. No. 1,343,047; June 8; v. 275; p. 334.
Gear. B. F. Seymour. No. 1,329,807; Feb. 3; v. 271; p. 86.
Gear. W. C. Sweat. No. 1,334,003; Mar. 16; v. 272; p. 458.
Gear-adjuster. F. H. Hines. No. 1,333,490; Mar. 9; v. 272; p. 301.
Gear, Antirattling. R. W. Bryan. No. 1,334,517; Mar. 23; v. 272; p. 600.
Gear attachment, Steering-. O. S. Pulliam. No. 1,328,762; Jan. 20; v. 270; p. 451.
Gear bearing-cap, Demountable couple-. B. C. Zuhars and H. D. Clarke. No. 1,360,858; Nov. 30; v. 280; p. 935.
Gear, Bevel-. R. E. Talley. No. 1,341,685; June 1; v. 275; p. 14.
Gear-cases, Means for dust-proofing rotating. M. B. Morgan, W. D. Collins, and G. T. Kinney. No. 1,338,032; Apr. 27; v. 273; p. 646.
Gear-cases, Means for dust-proofing rotating. K. Siems. No. 1,357,735; Nov. 2; v. 280; p. 101.
Gear-cases, Means for dust-proofing rotating. R. H. White. No. 1,359,553; Nov. 23; v. 280; p. 610.
Gear, Change-speed. C. Dominicus. No. 1,353,461; Sept. 21; v. 278; p. 486.
Gear, Change-speed. A. McNitt. No. 1,350,822; Aug. 24; v. 277; p. 696.
Gear, Change-speed. S. B. Moore. No. 1,345,688; July 6; v. 276; p. 71.
Gear, Change-speed. G. E. Stanley. No. 1,355,864; Oct. 19; v. 279; p. 371.
Gear-changing device. T. von Zweigbergk. No. 1,357,484; Nov. 2; v. 280; p. 53.
Gear, Composite. C. H. Calkins. No. 1,338,672; May 4; v. 274; p. 4.
Gear, Constant-mesh change-speed. J. Ward. No. 1,333,952; Mar. 16; v. 272; p. 448.
Gear-control mechanism, Differential-. I. C. Woodward. No. 1,355,297; Oct. 12; v. 279; p. 221.
Gear control, Seat automatic. A. H. Lewis. No. 1,347,641; July 27; v. 276; p. 634.
Gear-coupling. P. Bossu. No. 1,343,031; June 8; v. 275; p. 331.
Gear-cutters, Rack-cutting attachment for Fellows. C. L. Nadon. No. 1,330,949; Feb. 17; v. 271; p. 401.
Gear-cutting attachment. W. H. Hackleman. No. 1,329,175; Jan. 27; v. 270; p. 558.
Gear-cutting machine. E. W. Bullock, S. H. Earl, and G. H. Bryan. No. 1,351,200; Aug. 31; v. 277; p. 831.
Gear-cutting machine. C. E. Derr. No. 1,339,921; May 11; v. 274; p. 314.
Gear-cutting machine. W. C. Farnum. No. 1,364,056; Dec. 28; v. 281; p. 742.
Gear-cutting machine. J. E. Gleason, A. L. Stewart, and E. C. Head. No. 1,344,879; June 29; v. 275; p. 887.
Gear-cutting machine. J. C. Kopf. No. 1,343,396; June 15; v. 275; p. 466.
Gear-cutting machine. M. Maag. (Reissue.) No. 14,908; July 6; v. 276; p. 154.
Gear-cutting machine. M. Maag. (Reissue.) No. 14,909; July 6; v. 276; p. 154.
Gear-cutting machine. H. J. Schmick. No. 1,345,028; June 29; v. 275; p. 914.
Gear-cutting machine, Spiral-. J. C. Kopf. No. 1,361,161; Dec. 7; v. 281; p. 36.
Gear, Differential. E. de H. Caldwell. No. 1,359,961; Nov. 23; v. 280; p. 691.
Gear, Draft-. J. F. Courson. No. 1,337,002; Apr. 13; v. 273; p. 306.
Gear, Draft-. J. F. Courson. No. 1,337,003; Apr. 13; v. 273; p. 306.
Gear, Draft-. H. F. Woernley. No. 1,343,295; June 15; v. 275; p. 446.
Gear, Draft-. H. F. Woernley. No. 1,343,296; June 15; v. 275; p. 446.
Gear, Electric-switch. H. W. Clothier. No. 1,357,846; Nov. 2; v. 280; p. 123.
Gear, Electric-switch. H. W. Clothier. No. 1,357,847; Nov. 2; v. 280; p. 123.

Digitized by Google

Alphabetical list of inventions—Continued

Gear, Engine stop-. D. Cockburn and D. MacNicoll. No. 1,346,590; July 13; v. 276; p. 311.
Gear for bicycles, velocipedes, and the like, Pedimotive propelling-. W. B. Smith. No. 1,349,588; Aug. 17; v. 277; p. 410.
Gear for children's carriages, Running-. C. A. Lindberg. No. 1,359,261; Nov. 16; v. 280; p. 506.
Gear for motors with valve-gear worked by cams and levers, Reversing-. R. Guyot-Sionnest. No. 1,341,368; May 25; v. 274; p. 715.
Gear-forming mechanism. F. F. Beall. No. 1,332,968; Mar. 9; v. 272; p. 203.
Gear, Friction draft-. H. Yoerg. No. 1,338,893; May 4; v. 274; p. 45.
Gear, Friction draft and buffing. D. C. Davis. No. 1,363,179; Dec. 21; v. 281; p. 532.
Gear-generating machine. E. R. Fellows. No. 1,338,685; May 4; v. 274; p. 7.
Gear-grinding machine. A. T. Brown. No. 1,329,884; Feb. 3; v. 271; p. 101.
Gear-grinding machine. A. T. Brown. No. 1,352,872; Sept. 14; v. 278; p. 262.
Gear, Intermittent. A. W. Harris. No. 1,331,760; Feb. 24; v. 271; p. 572.
Gear, Irreversible steering-. L. J. Phelps. No. 1,328,761; Jan. 20; v. 270; p. 450.
Gear-lock. J. O. Tylor. No. 1,358,899; Nov. 16; v. 280; p. 439.
Gear lock, Transmission-sliding-. A. B. Werdhoff. No. 1,360,338; Nov. 30; v. 280; p. 833.
Gear, Locomotive driving-. G. R. France. No. 1,340,762; May 18; v. 274; p. 530.
Gear, Making housings for automobile transmission-. T. E., Jr., and J. B. Murray. No. 1,350,880; Aug. 24; v. 277; p. 697.
Gear manufacture. C. E. Derr. No. 1,330,521; Feb. 10; v. 271; p. 251.
Gear mechanism. F. Hardinge. No. 1,334,242; Mar. 16; v. 272; p. 502.
Gear mechanism, Automatic locking device for steering-. A. Borofsky. No. 1,341,256; May 25; v. 274; p. 695.
Gear mechanism, Clutch and change-. F. W. Lanchester. No. 1,331,744; Feb. 24; v. 271; p. 564.
Gear mechanism, Differential-. M. C. Indahl. No. 1,332,269; Sept. 7; v. 278; p. 106.
Gear, oblique tooth, Elastic. W. C. Farnum. No. 1,361,035; Dec. 7; v. 281; p. 11.
Gear of the friction type, Driving-. G. Barker. No. 1,363,881; Dec. 28; v. 281; p. 699.
Gear, Power-operated reversing-. J. H. Alter. No. 1,339,939; May 11; v. 274; p. 317.
Gear-puller. J. E. Crim and H. E. Brower. No. 1,343,661; June 15; v. 275; p. 518.
Gear-remover or pinion-puller. C. Reinker. No. 1,352,990; Sept. 14; v. 278; p. 285.
Gear, Reverse-. L. H. Key. No. 1,331,267; Feb. 17; v. 271; p. 459.
Gear, Reversing-. C. H. Macmillan. No. 1,350,824; Aug. 24; v. 277; p. 598.
Gear, roll, and the like. J. H. Carver. No. 1,340,011; May 11; v. 274; p. 331.
Gear, Rowing-. D. McRae. No. 1,346,040; July 6; v. 276; p. 141.
Gear-shift. G. L. Brock. No. 1,354,948; Oct. 5; v. 279; p. 100.
Gear-shift. W. G. Drummond. No. 1,346,532; July 13; v. 276; p. 299.
Gear-shift. B. E. Richardson. No. 1,329,798; Feb. 3; v. 271; p. 84.
Gear-shift. J. O. Shepherd. No. 1,360,035; Nov. 23; v. 280; p. 706.
Gear-shift and overrunning clutch and governor therefor, Combination. B. E. Richardson and A. M. Lynn. No. 1,358,655; Nov. 9; v. 280; p. 345.
Gear-shift appliance, Transmission-. B. E. Richardson. No. 1,354,689; Oct. 5; v. 279; p. 48.
Gear-shift, Automobile. H. J. Jones. No. 1,331,814; Feb. 24; v. 271; p. 583.
Gear-shift-lever lock. C. J. Gustafson. No. 1,331,759; Feb. 24; v. 271; p. 572.
Gear-shift lock. A. E. McDonald. No. 1,347,110; July 20; v. 276; p. 472.
Gear-shift lock. G. C. Mather. No. 1,349,973; Aug. 17; v. 277; p. 484.
Gear-shift mechanism. F. Conrad. No. 1,363,719; Dec. 28; v. 281; p. 677.
Gear-shifter, Electric. A. J. Taylor, Jr. No. 1,336,796; Apr. 13; v. 273; p. 267.
Gear-shifting device, Automobile. E. S. Harden. No. 1,331,012; Feb. 17; v. 271; p. 413.
Gear-shifting lever. C. R. Short. No. 1,330,912; Feb. 17; v. 271; p. 393.
Gear-shifting mechanism. C. R. Underhill. No. 1,353,438; Sept. 21; v. 278; p. 431.
Gear-shifting mechanism, Automatic mechanical. P. W. Craig. No. 1,354,890; Oct. 5; v. 279; p. 88.
Gear-shifting mechanism, Fluid-operated. L. A. Laursen. No. 1,329,779; Feb. 3; v. 271; p. 81.
Gear-shifting mechanism, Operating device for. J. I. Umsted. No. 1,331,685; Feb. 24; v. 271; p. 558.
Gear-shifting mechanism. J. R. Langley. No. 1,363,661; Dec. 28; v. 281; p. 666.
Gear-shifting mechanism. J. R. Langley. No. 1,363,662; Dec. 28; v. 281; p. 666.
Gear-shifting mechanism. O. S. Schairer. No. 1,363,674; Dec. 28; v. 281; p. 668.
Gear-shifting mechanism. O. S. Schairer. No. 1,363,675; Dec. 28; v. 281; p. 668.
Gear-shifting mechanism. J. E. Webster. No. 1,363,628; Dec. 28; v. 281; p. 659.
Gear-shifting mechanism. J. E. Webster. No. 1,363,629; Dec. 28; v. 281; p. 660.
Gear-shifting mechanism. J. E. Webster. No. 1,363,700; Dec. 28; v. 281; p. 673.
Gear-shifting mechanism. J. E. Webster. No. 1,363,701; Dec. 28; v. 281; p. 673.
Gear, Speed-change. G. E. Medley. No. 1,342,920; June 8; v. 275; p. 309.
Gear, Speed-change. I. H. Wright. No. 1,347,924; July 27; v. 276; p. 691.
Gear, Steering-. M. O. Dahlen. No. 1,332,161; Feb. 24; v. 271; p. 647.
Gear, Steering-. T. A. McGinley and J. C. Kopf. No. 1,341,334; May 25; v. 274; p. 711.
Gear, Steering-. D. E. Ross. No. 1,331,026; Feb. 17; v. 271; p. 416.
Gear, Steering-. C. A. Ward. No. 1,341,349; May 25; v. 274; p. 714.
Gear, Tandem draft-. W. A. Geiger. No. 1,355,959; Oct. 19; v. 279; p. 389.
Gear-teeth, Generating. C. H. Schurr. No. 1,355,919; Oct. 19; v. 279; p. 381.
Gear-train. C. A. Parsons, S. M. Cook, and L. M. Douglas. No. 1,332,061; Feb. 24; v. 271; p. 629.
Gear, Transmission-. D. Byrd. No. 1,347,804; July 27; v. 276; p. 667.
Gear, Transmission-. J. H. Downie. No. 1,348,160; Aug. 3; v. 277; p. 5.
Gear transmission. L. and H. Nilson. No. 1,363,906; Dec. 28; v. 281; p. 713.
Gear transmission, Change-. G. L. McCain. No. 1,356,641; Oct. 26; v. 279; p. 570.
Gear, Variable-speed. B. W. B. Puckle. No. 1,329,476; Feb. 3; v. 271; p. 25.
Gear, Variable-speed transmission-. F. Molyneux. No. 1,353,775; Sept. 21; v. 278; p. 499.
Gear-wheel. D. Fitzpatrick. No. 1,358,189; Nov. 9; v. 280; p. 251.
Gear-wheel. N. D. Levin. No. 1,330,482; Feb. 10; v. 271; p. 244.
Gear-wheel, Bevel. E. H. Wingqvist. No. 1,332,151; Feb. 24; v. 271; p. 645.
Gear-wheel, Compound adjustable. C. E. Bertels. No. 1,354,717; Oct. 5; v. 279; p. 55.
Gear-wheel, Power-transmission. C. A. Parsons and S. S. Cook. No. 1,351,401; Aug. 31; v. 277; p. 872.
Gear-wheel, Spiral-cut. B. Ljunström. No. 1,343,923; June 22; v. 275; p. 636.
Gear-wheels, Apparatus for testing the teeth of. H. Saurer. (Reissue.) No. 15,013; Dec. 21; v. 281; p. 539.
Gear wheels or crown-wheels, Manufacture of toothed bevel-. O. R. Opperman. No. 1,352,021; Sept. 7; v. 278; p. 60.
Gear, Worm-. D. Fitzpatrick. No. 1,358,191; Nov. 9; v. 280; p. 251.
Gears and axles of automobiles, Housing for transmission-. T. E., Jr., and J. B. Murray. No. 1,363,155; Dec. 21; v. 281; p. 528.
Gears and other carbonized-steel parts, Producing and finishing. J. F. Sallows. No. 14,820; Mar. 16; v. 272; p. 509.
Gears, Contact of electrical switch-. R. S. O'Neil. No. 1,351,963; Sept. 7; v. 278; p. 50.
Gears, Control means for speed-change. H. A. Sedgwick and K. F. Kummer. No. 1,334,561; Mar. 23; v. 272; p. 609.
Gears, Lock for motor-vehicle steering-. I. N. Smith. No. 1,332,075; Feb. 24; v. 271; p. 632.
Gears, Machine for and method of cutting. H. C. Walter. No. 1,341,953; June 1; v. 275; p. 67.
Gears, Machine for generating bevel-. M. Maag. No. 1,351,580; Aug. 31; v. 277; p. 907.
Gears, Making. M. Tibbetts. No. 1,336,493; Apr. 13; v. 273; p. 208.
Gears, Making metal housings for transmission-. T. E., Jr., and J. B. Murray. No. 1,363,154; Dec. 21; v. 281; p. 528.
Gears, Means for perfecting toothed. H. D. Williams. No. 1,335,472; Mar. 30; v. 272; p. 840.
Gears or wheels, Method of and machinery for cutting. J. E. Gleason and A. L. Stewart. No. 1,349,951; Aug. 17; v. 277; p. 479.
Gears, rolls, &c., from spinnable textile fibers, Machine for making blanks for. E. J. Guay. No. 1,337,067; Apr. 13; v. 273; p. 319.
Gears, Shaft-locking means for differential.. C. G. Carlberg. No. 1,361,963; Dec. 14; v. 281; p. 244.
Geared, adjustable, pipe-threading device. C. G. Wahnsiedler. No. 1,345,567; July 6; v. 276; p. 47.
Gearing. M. G. Albrook. No. 1,333,364; Mar. 9; v. 272; p. 277.
Gearing. A. M. Alexander. No. 1,343,189; June 15; v. 275; p. 427.

Digitized by Google

Gearing. K. Alquist. No. 1,334,008; Mar. 16; v. 272; p. 459.
Gearing. K. Alquist. No. 1,351,317; Aug. 31; v. 277; p. 854.
Gearing. K. Alquist. No. 1,351,318; Aug. 31; v. 277; p. 855.
Gearing. K. Alquist. No. 1,351,320; Aug. 31; v. 277; p. 855.
Gearing. K. Alquist. No. 1,351,321; Aug. 31; v. 277; p. 855.
Gearing. K. Alquist. No. 1,351,322; Aug. 31; v. 277; p. 855.
Gearing. K. Alquist. No. 1,357,674; Nov. 2; v. 280; p. 89.
Gearing. A. W. Griffith. No. 1,345,847; July 6; v. 276; p. 102.
Gearing. O. Koller. No. 1,341,237; May 25; v. 274; p. 692.
Gearing. A. H. Leipert and A. G. Herreshoff. No. 1,342,175; June 1; v. 275; p. 111.
Gearing. W. S. Lovell. No. 1,352,293; Sept. 7; v. 278; p. 111.
Gearing. C. E. Mehlhope. No. 1,334,045; Mar. 16; v. 272; p. 466.
Gearing. C. F. Milholen. No. 1,363,142; Dec. 21; v. 281; p. 526.
Gearing. J. Wilkinson. No. 1,359,853; Nov. 23; v. 280; p. 669.
Gearing and control mechanism, Selective change-speed. G. B. Ingersoll. No. 1,353,240; Sept. 21; v. 278; p. 393.
Gearing, Automatic self-locking differential. K. P. MacDonald. No. 1,341,276; May 25; v. 274; p. 699.
Gearing, Automobile transmission-. O. K. Bakken. No. 1,336,811; Apr. 6; v. 273; p. 20.
Gearing, Belt-. A. H. De Voe. No. 1,347,842; July 27; v. 276; p. 675.
Gearing, Bicycle-. E. and J. Schiffner. No. 1,360,032; Nov. 23; v. 280; p. 705.
Gearing, Change-speed. W. C. Bucknam. No. 1,338,974; May 4; v. 274; p. 59.
Gearing, Change-speed. L. Herman and F. J. Karg. No. 1,358,547; Nov. 9; v. 280; p. 323.
Gearing, Change-speed. J. Riise. No. 1,355,506; Oct. 12; v. 279; p. 262.
Gearing, Change-speed. H. P. Saunderson. No. 1,339,477; May 11; v. 274; p. 230.
Gearing, Compensating. D. D. Ormsby. No. 1,352,010; Sept. 14; v. 278; p. 260.
Gearing, Differential. J. S. Alcorn. No. 1,354,937; Oct. 5; v. 279; p. 97.
Gearing, Differential. J. C. Bogart. No. 1,351,737; Sept. 7; v. 278; p. 5.
Gearing, Differential. A. T. Nogrady. No. 1,361,895; Dec. 14; v. 281; p. 229.
Gearing, Differential. E. L. Snyder. No. 1,341,286; May 25; v. 274; p. 701.
Gearing, Drive-. F. M. Wolff. No. 1,327,129; Jan. 6; v. 270; p. 47.
Gearing, Epicyclic. F. H. Royce. No. 1,350,522; Aug. 24; v. 277; p. 637.
Gearing for connecting coaxial shafts. F. M. Green and S. D. Heron. No. 1,347,220; July 20; v. 276; p. 493.
Gearing for double-rotation turbines. K. Alquist. No. 1,351,319; Aug. 31; v. 277; p. 855.
Gearing for egg-beaters, cream-whippers, &c. W. H. Geiger. No. 1,327,950; Jan. 13; v. 270; p. 261.
Gearing for laundry machinery. J. H. Hendrickson. No. 1,347,221; July 20; v. 276; p. 494.
Gearing for tractors. E. T. McKaig. No. 1,334,917; Mar. 23; v. 272; p. 677.
Gearing, Generator and distributer. A. F. Wagner. No. 1,327,504; Jan. 6; v. 270; p. 116.
Gearing, Grain-drill. W. R. Hartung. No. 1,329,901; Feb. 3; v. 271; p. 104.
Gearing, Magnetic. H. M. Stroller. No. 1,337,732; Apr. 20; v. 273; p. 519.
Gearing, Motor-driven. W. J. Georgeson. No. 1,342,262; June 1; v. 275; p. 127.
Gearing, Planetary. S. V. Dickman. No. 1,348,095; July 27; v. 276; p. 725.
Gearing, Planetary eccentric system of. W. Belshaw. No. 1,347,671; July 27; v. 276; p. 640.
Gearing, Power - transmission. G. E. Cassel. No. 1,332,708; Mar. 2; v. 272; p. 102.
Gearing, Power-transmission toothed. B. R. Wingfield. No. 1,351,597; Aug. 31; v. 277; p. 910.
Gearing, Reduction-. T. Argall. No. 1,363,077; Dec. 21; v. 281; p. 513.
Gearing, Reduction-. F. Hodgkinson. No. 1,357,931; Nov. 2; v. 280; p. 139.
Gearing, Reduction-. F. Hodgkinson. No. 1,357,932; Nov. 2; v. 280; p. 140.
Gearing, Reversing-. A. J. H. Kok. No. 1,357,712; Nov. 2; v. 280; p. 97.
Gearing, Self-acting-mule. N. Laurency. No. 1,330,880; Feb. 17; v. 271; p. 387.
Gearing, Shaft-hanger. C. N. Cady. No. 1,344,439; June 22; v. 275; p. 736.
Gearing, Speed-changing, reversing, and braking. G. Pollard. No. 1,333,729; Mar. 16; v. 272; p. 407.
Gearing, Speed-reducing transmission-. D. E. Ross. No. 1,358,788; Nov. 16; v. 280; p. 416.
Gearing, Toothed. J. Zeitlin. No. 1,347,730; July 27; v. 276; p. 652.
Gearing, Toothed-wheel-. E. Brown. No. 1,358,615; Nov. 9; v. 280; p. 327.
Gearing, Tractor driving-. H. P. Polaski. No. 1,337,369; Apr. 20; v. 273; p. 450.
Gearing, Tractor forward and reverse. G. H. Scanlan. No. 1,359,109; Nov. 16; v. 280; p. 477.
Gearing, Transmission-. W. Christie. No. 1,336,182; Apr. 6; v. 273; p. 81.
Gearing, Transmission-. P. C. Day. No. 1,343,963; June 22; v. 275; p. 643.
Gearing, Transmission-. L. M. Gardiner. No. 1,349,719; Aug. 17; v. 277; p. 436.
Gearing, Transmission-. J. Guyer and G. Morales. No. 1,337,906; Apr. 20; v. 273; p. 552.
Gearing, Transmission-. R. E. Jackson and B. O. Yearwood. No. 1,340,486; May 18; v. 274; p. 478.
Gearing, Transmission-. A. J. Karl and B. F. Webb. No. 1,345,494; July 6; v. 276; p. 33.
Gearing, Transmission-. E. F. Kerkhoff. No. 1,359,387; Nov. 16; v. 280; p. 532.
Gearing, Transmission-. N. C. Kohr. No. 1,360,171; Nov. 23; v. 280; p. 732.
Gearing, Transmission-. A. J. Meyer. No. 1,356,728; Oct. 26; v. 279; p. 587.
Gearing, Transmission-. C. E. Mills. No. 1,330,740; Feb. 10; v. 271; p. 292.
Gearing, Transmission-. J. Spadafora. No. 1,341,392; May 25; v. 274; p. 722.
Gearing, Transmission and controlling. E. T. Silvius. No. 1,341,442; May 25; v. 274; p. 732.
Gearing, Transmission and controlling. E. T. Silvius. No. 1,360,693; Nov. 30; v. 280; p. 903.
Gearing, Universal transmission-. A. D. Standeford. No. 1,356,231; Oct. 19; v. 279; p. 444.
Gearing, Variable-speed. K. K. Clarke. No. 1,354,956; Oct. 5; v. 279; p. 101.
Gearing, Variable-speed-transmission. W. C. Stevens. No. 1,344,319; June 22; v. 275; p. 712.
Gearing, Worm-. P. Brown and F. J. Bostock. No. 1,349,811; Aug. 17; v. 277; p. 453.
Gearing, Worm-. A. A. Firestone. No. 1,341,309; May 25; v. 274; p. 706.
Gearless differential. A. F. Ford. No. 1,336,950; Apr. 13; v. 273; p. 297.
Gearless differential. C. Lavier. No. 1,337,460; Apr. 20; v. 273; p. 467.
Gee-strap. C. W. Martin. No. 1,352,672; Sept. 14; v. 278; p. 221.
Gelatin, Manufacturing sheets of edible. R. A. McQuitty. No. 1,347,226; July 20; v. 276; p. 495.
Gelatinizing and product thereof. J. E. Crane. No. 1,329,583; Feb. 3; v. 271; p. 45.
Gem-setting. J. Dinhofer. No. 1,332,206; Mar. 2; v. 272; p. 6.
Generator: *See*—
Acetylene-generator.
Acetylene-gas generator.
Coal-oil generator.
Current-generator.
Electric generator.
Fluid-pressure generator.
Forced-feed and steam generator.
Gas-generator.
Gaseous-fuel generator.
Hand-generator.
Hydrocarbon-generator.
Ignition-generator.
Inductor-generator.
Magneto-generator.
Oscillating generator.
Oscillating-current generator.
Oxygen and hydrogen generator.
Ozone-generator.
Power-generator.
Steam-generator.
Welding-generator.
Windmill-operated generator.
Generator. W. P. Rudkin. No. 1,328,016; Jan. 13; v. 270; p. 274.
Generator and cut-out switch apparatus. W. B. Moses. No. 1,357,582; Nov. 2; v. 280; p. 72.
Generator and pump, Combined. H. R. Van Deventer. No. 1,349,397; Aug. 10; v. 277; p. 299.
Generator and timer-distributer bearing-head, Combined. A. D. T. Libby. No. 1,338,990; May 4; v. 274; p. 63.
Generator, Combined steam and hot-air. B. A. Phillips. No. 1,363,530; Dec. 28; v. 281; p. 641.
Generator disconnector-box. J. A. Amos. No. 1,359,143; Nov. 16; v. 280; p. 483.
Generator set. R. S. Bolger. No. 1,343,494; June 15; v. 275; p. 485.
Generators, Controlling combustion in a plurality of. F. H. Brown. No. 1,338,897; May 4; v. 274; p. 46.
Generators, Controlling combustion in a plurality of. F. H. Brown. No. 1,339,055; May 4; v. 274; p. 76.
Generators, Shaft construction for. I. T. Swartz and A. T. Wallace. No. 1,335,536; Mar. 30; v. 272; p. 852.
Geometric figure. E. T. Miller. No. 1,344,053; June 22; v. 275; p. 661.
Geometrical instrument, Combination. M. W. Crane. No. 1,337,823; Apr. 20; v. 273; p. 536.
Germicide and insecticide. L. Cheeseman. No. 1,343,034; June 8; v. 275; p. 332.
Gill-net retriever. C. Marchius. No. 1,353,604; Sept. 21; v. 278; p. 465.
Gin. E. R. Tischer. No. 1,327,845; Jan. 13; v. 270; p. 242.
Gin or delinting-gin. W. H. Nesmith. No. 1,333,334; Mar. 9; v. 272; p. 271.

Digitized by Google

Girder. W. S. Hutchinson. No. 1,344,229; June 22; v. 275; p. 694.
Girder. H. G. Tregillus. No. 1,330,771; Feb. 10; v. 271; p. 298.
Girder-like structure, Metal. R. J. King. No. 1,363,127; Dec. 21; v. 281; p. 522.
Girdle, Foundation-. L. E. Mullin. No. 1,345,800; July 6; v. 276; p. 93.
Glare-stop. F. W. Lamoreaux. No. 1,338,022; Apr. 27; v. 273; p. 644.
Glass: *See*—
Headlight-glass.
Glass. C. R. Peregrine. No. 1,327,569; Jan. 6; v. 270; p. 129.
Glass and apparatus therefor, Obtaining mold charges of. E. T. Ferngren. No. 1,362,785; Dec. 21; v. 281; p. 457.
Glass and cloth saturated therewith, Composition for cleaning. M. J. Frankwich. No. 1,362,092; Dec. 14; v. 281; p. 269.
Glass and its manufacture. L. E. Barton and H. A. Gardner. No. 1,362,917; Dec. 21; v. 281; p. 481.
Glass and making same, Reinforced. L. F. Mascart. No. 1,342,267; June 1; v. 275; p. 129.
Glass and similar substances, Manipulating. F. L. O. Wadsworth. No. 1,334,725; Mar. 23; v. 272; p. 639.
Glass-annealing furnace. M. A. Smith. No. 1,342,233; June 1; v. 275; p. 122.
Glass-annealing leer. E. E. Milner and W. J. Lytle. No. 1,361,604; Dec. 7; v. 281; p. 126.
Glass apparatus. W. E. Sloppy. No. 1,330,097; Feb. 10; v. 271; p. 172.
Glass, Apparatus for conveying molten. J. B. Graham and R. La France. No. 1,350,448; Aug. 24; v. 277; p. 623.
Glass, Apparatus for gathering molten. J. B. Graham. No. 1,353,953; Sept. 28; v. 278; p. 578.
Glass, Apparatus for making sheet-. J. C. Crowley. No. 1,342,533; June 8; v. 275; p. 233.
Glass, Apparatus for making sheet-. J. Whittemore. No. 1,328,864; Jan. 27; v. 270; p. 499.
Glass, Apparatus for manufacturing articles of. W. J. Miller. No. 1,329,624; Feb. 3; v. 271; p. 52.
Glass, Apparatus for transferring charges of molten. J. M. Lents. No. 1,331,512; Feb. 24; v. 271; p. 526.
Glass articles, Machine for finishing blown-. J. Bailey. No. 1,352,396; Sept. 7; v. 278; p. 130.
Glass-blowing apparatus. F. W. Stewart. No. 1,335,583; Mar. 30; v. 272; p. 851.
Glass-blowing machine, Automatic. F. B. Hoffstetter and F. J. Rippl. No. 1,330,707; Feb. 10; v. 271; p. 286.
Glass-blowing machines, Automatic take-off device for. H. C. Fentress. No. 1,336,028; Apr. 6; v. 273; p. 62.
Glass bodies, Machine for making hollow. G. A. Leiman. No. 1,342,821; June 8; v. 275; p. 290.
Glass, Building up objects of quartz. W. S. Quimby and F. W. Robinson. No. 1,330,611; Feb. 10; v. 271; p. 268.
Glass bulbs, Sealing. A. J. Loepsinger. No. 1,328,530; Jan. 20; v. 270; p. 408.
Glass casket. G. H. Mellon. No. 1,345,210; June 29; v. 275; p. 950.
Glass, Casting-table for plate-. F. E. Troutman. No. 1,342,014; June 8; v. 275; p. 328.
Glass-cleaner. V. H. Christen. No. 1,327,146; Jan. 6; v. 270; p. 50.
Glass covering, Hermetic. J. C. Séailles. No. 1,351,492; Aug. 31; v. 277; p. 889.
Glass-cutter. J. R. Scohy. No. 1,359,751; Nov. 23; v. 280; p. 649.
Glass-cutting machine. J. Waterloo. (Reissue.) No. 14,788; Jan. 6; v. 270; p. 136.
Glass, cutter or gripper for use in drawing sheet-. H. S. Campbell. No. 1,355,449; Oct. 12; v. 279; p. 250.
Glass-cutting frame. F. C. Remsberg. No. 1,357,474; Nov. 2; v. 280; p. 51.
Glass cylinders, Apparatus for drawing. A. E. Spinasse. No. 1,361,635; Dec. 7; v. 281; p. 132.
Glass cylinders, Apparatus for drawing. L. E. Stewart. No. 1,347,131; July 20; v. 276; p. 476.
Glass cylinders, Apparatus for drawing. H. J. Walter. No. 1,329,065; Jan. 27; v. 270; p. 537.
Glass cylinders, Apparatus for drawing. J. H. Campbell. No. 1,335,653; Mar. 30; v. 272; p. 875.
Glass cylinders, Apparatus for supporting. H. S. Heichert. No. 1,361,855; Dec. 14; v. 281; p. 222.
Glass cylinders, Drawing. W. Westbury. No. 1,344,325; June 22; v. 275; p. 713.
Glass, Device for severing. H. F. Hitner. No. 1,359,172; Nov. 16; v. 280; p. 489.
Glass-discharging device. S. L. Sears. No. 1,343,183; June 8; v. 275; p. 361.
Glass-discharging mechansim. J. Rau. No. 1,329,851; Feb. 3; v. 271; p. 96.
Glass drawing and cutting mechanism. I. W. Colburn. No. 1,341,262; May 25; v. 274; p. 697.
Glass-drawing apparatus. J. H. Allan. No. 1,342,080; June 1; v. 275; p. 91.
Glass-drawing apparatus. G. L. Catlin and D. Morrison. No. 1,351,833; Sept. 7; v. 278; p. 24.
Glass-drawing apparatus. H. K. Hitchcock. No. 1,328,673; Jan. 20; v. 270; p. 434.
Glass-drawing apparatus. A. E. Spinasse. No. 1,343,186; June 8; v. 275; p. 361.
Glass-drawing apparatus, Cutting-off device for. W. E. Standley. No. 1,338,109; Apr. 27; v. 273; p. 660
Glass-drawing apparatus, Hoisting mechanism for. S. S. Skelton. No. 1,363,622; Dec. 28; v 281; p. 658.
Glass-drawing apparatus, Sheet-. J. Whittemore. No. 1,362,378; Dec. 14; v. 281; p. 325.
Glass-drawing bait and using it. H. K. Hitchcock. No. 1,349,200; Aug. 10; v. 277; p. 260.
Glass drawing, Furnace for continuous sheet-. M. J. Owens. No. 1,327,406; Jan. 6; v. 270; p. 97.
Glass-drawing machine. F. L. Goffaux. No. 1,354,391; Sept. 28; v. 278; p. 667.
Glass-drawing pot. C. Day. No. 1,333,903; Mar. 16; v. 272; p. 439.
Glass-feeding apparatus. K. E. Peller. No. 1,332,405; Mar. 2; v. 272; p. 45.
Glass-feeding machine and process. K. E. Peller. No. 1,349,551; Aug. 10; v. 277; p. 329.
Glass-flattening apparatus. G. H. Hahm. No. 1,331,916; Feb. 24; v. 271; p. 602.
Glass-flattening oven, Window-. H. E. DeVaughn. No. 1,352,881; Sept. 14; v. 278; p. 264.
Glass-forming apparatus, Blowpipe-operating mechanism for. A. Kadow. No. 1,331,772; Feb. 24; v. 271; p. 575.
Glass-forming machine. R. La France. No. 1,348,365; Aug. 3; v. 277; p. 46.
Glass from furnaces, Removing. E. T. Ferngren. No. 1,342,042; June 1; v. 275; p. 84.
Glass-furnace. J. R. Scohy. No. 1,347,181; July 20; v. 276; p. 486.
Glass-gathering mechanism. A. Kadow. No. 1,350,552; Aug. 24; v. 277; p. 643.
Glass-grinding machinery, Sand-grading apparatus for. J. Willis. No. 1,342,038; June 1; v. 275; p. 83.
Glass-grinding machines, Apparatus for supplying and grading abrasives to. J. W. Cruikshank. No. 1,343,710; June 15; v. 275; p. 528.
Glass-grinding machines, Supplying and grading sand to. J. W. Cruikshank. No. 1,343,711; June 15; v. 275; p. 528.
Glass-handling apparatus. T. C. Steimer. No. 1,362,756; Dec. 21; v. 281; p. 450.
Glass holder, Reading-. J. T. Spradling. No. 1,345,272; June 29; v. 275; p. 962.
Glass in automobile-curtains, Device for holding plate-. S. Celinski. No. 1,360,094; Nov. 23; v. 280; p. 717.
Glass, Internal lock-bait for drawing. J. R. Scohy. (Reissue.) No. 14,911; July 6; v. 276; p. 155.
Glass, Ladling. H. F. Hitner. No. 1,342,960; June 8; v. 275; p. 317.
Glass, Laminated. M. W. Gleason. No 1,342,282; June 1; v. 275; p. 131.
Glass, Machine for casting plate-. H. O. Bisbing. No. 1,363,450; Dec. 28; v. 281; p. 625.
Glass-machines, Drop-feeding device for. A. L. Schram. No. 1,353,276; Sept. 21; v. 278; p. 400.
Glass-machines, Pressing-plunger mechanism for. W. J. Miller. No. 1,342,056; June 1; v. 275; p. 87.
Glass-making pots, Brush for cleaning. C. M. Brown. No. 1,349,262; Aug. 10; v. 277; p. 273.
Glass, Making sheet-. M. J. Owens. No. 1,345,628; July 6; v. 276; p. 59.
Glass manufacture. B. G. Bealor. No. 1,331,796; Feb. 24; v. 271; p. 580.
Glass, Manufacture of reinforced. L. F. Mascart. No. 1,342,268; June 1; v. 275; p. 129.
Glass, Manufacture of window. C. S. Robb. No. 1,356,739; Oct. 26; v. 279; p. 590.
Glass, Manufacturing ruby. M. Meth. No. 1,344,141; June 22; v. 275; p. 677.
Glass, Means for and method of flowing. J. B. Graham. No. 1,353,907; Sept. 28; v. 278; p. 569.
Glass, Means for making sheet-. M. J. Owens. No. 1,345,629; July 6; v. 276; p. 59.
Glass, Means for transferring hot. M. J. Owens. No. 1,350,464; Aug. 24; v. 277; p. 626.
Glass, Method and apparatus for drawing sheet-. W. S. Temple and J. A. Kealey. No. 1,334,569; Mar. 23; v. 272; p. 611.
Glass, Method of and apparatus for drawing. A. E. Spinasse. No. 1,336,056; Apr. 6; v. 273; p. 66.
Glass, Method of and apparatus for drawing continuous sheets of. J. P. Crowley. No. 1,328,268; Jan. 20; v. 270; p. 358.
Glass, Method of and apparatus for drawing sheet-. I. W. Colburn. (Reissue.) No. 14,794; Jan. 27; v. 270; p. 590.
Glass, Method of and apparatus for making sheet-. T. S. Owens. No. 1,358,390; Nov. 9; v. 280; p. 292.
Glass-molding apparatus. E. T. Ferngren. No. 1,328,273; Jan. 20; v. 270; p. 359.
Glass-molding machine. H. O. Bisbing. No. 1,347,202; July 20; v. 276; p. 490.
Glass-molding machine. S. E. Winder and H. C. Daubenspeck. No. 1,331,792; Feb. 24; v. 271; p. 579.
Glass-molds, Means for charging. J. F. Rule. No. 1,331,528; Feb. 24; v. 271; p. 529.
Glass, Paddle or plunger for molten. P. E. Peller. No. 1,328,799; Jan. 20; v. 270; p. 458.
Glass-pane holder. A. Motteau. No. 1,347,706; July 27; v. 276; p. 647.
Glass panel, Imitation beveled. J. A. McAvoy. No. 1,345,792; July 6; v. 276; p. 91.

Digitized by Google

Glass plates, Machine for grinding the edges of. H. G. Farley. No. 1,328,242; Jan. 13; v. 270; p. 317.
Glass-pressing machine. F. W. Stewart. No. 1,343,987; June 22; v. 275; p. 647.
Glass, Process and apparatus for the production of sheet-. G. B. Stanton. No. 1,338,261; Apr. 27; v. 273; p. 689.
Glass products, Method and apparatus for the manufacture of pressed-sheet-. F. L. O. Wadsworth. No. 1,346,571; July 13; v. 276; p. 307.
Glass-retaining device for containers. J. Rizzuto. No. 1,352,531; Sept. 14; v. 278; p. 192.
Glass rollers, Method of opening the shade ends of hand-blown. C. F. Warrick. No. 1,351,710; Aug. 31; v. 277; p. 931.
Glass-rolling apparatus. C. Dawson. No. 1,341,547; May 25; v. 274; p. 752.
Glass-securing device. D. J. Murnane. No. 1,351,058; Aug. 31; v. 277; p. 803.
Glass-severing implement. H. M. Brown. No. 1,346,528; July 13; v. 276; p. 298.
Glass shaping and blowing machine. E. Roirant. No. 1,337,723; Apr. 20; v. 273; p. 517.
Glass-shaping machines, Transfer mechanism for. K. E. Peiler and E. H. Lorenz. No. 1,331,472; Feb. 17; v. 271; p. 498.
Glass shaping or blowing machine. A. Wilzin. No. 1,338,604; Apr. 27; v. 273; p. 752.
Glass sheets, Apparatus for drawing. H. K. Hitchcock. No. 1,349,201; Aug. 10; v. 277; p. 266.
Glass sheets, Drawing. H. G. Slingluff. No. 1,339,229; May 4; v. 274; p. 107.
Glass, Staining. J. W. Hasburg. No. 1,328,833; Jan. 27; v. 270; p. 493.
Glass-stirring machine. C. R. Hazel. No. 1,361,853; Dec. 14; v. 281; p. 222.
Glass to molds, Apparatus for transferring. R. La France. No. 1,331,511; Feb. 24; v. 271; p. 525.
Glass to molds, Means for transferring. L. D. Soubler. No. 1,356,174; Oct. 19; v. 279; p. 433.
Glass to molds, Means for transferring molten. L. D. Soubler. No. 1,331,536; Feb. 24; v. 271; p. 530.
Glass-topped jars, Opener for. D. C. Relyea. No. 1,350,180; Aug. 17; v. 277; p. 524.
Glass vessel. G. F. McDonnell and J. J. Dandoy. No. 1,348,231; Aug. 3; v. 277; p. 20.
Glass-washer. W. M. Young. No. 1,337,303; Apr. 20; v. 273; p. 438.
Glass, Water-. E. H. Hulett. No. 1,339,561; May 11; v. 274; p. 245.
Glass, Wire. V. Shuman. No. 1,355,625; Oct. 12; v. 279; p. 284.
Glass with colored figures in the glass mass, Manufacturing decorated articles of. A. Ahlin. No. 1,343,806; June 15; v. 275; p. 547.
Glass-working machine. A. L. Bingham. No. 1,340,366; May 18; v. 274; p. 455.
Glass-working machine. A. R. Hunter. No. 1,353,115; Sept. 14; v. 278; p. 308.
Glass-working machine. E. Miller. No. 1,350,375; Aug. 24; v. 277; p. 608.
Glass-working machine. F. L. O. Wadsworth. No. 1,333,143; Mar. 9; v. 272; p. 286.
Glass-working machines, Adjustment and indicator for. W. H. Honiss. No. 1,331,467; Feb. 17; v. 271; p. 497.
Glass-working machines, Shear mechanism for. H. A. Genest. No. 1,331,847; Feb. 24; v. 271; p. 590.
Glasses and like liquid-receptacles, Holder for. G. H. Woods. No. 1,334,342; Mar. 23; v. 272; p. 568.
Glasses, Closure for jelly-. T. L. Taliaferro. No. 1,343,013; June 8; v. 275; p. 328.
Glasses, Mounting for. R. M. Reid. No. 1,333,575; Mar. 9; v. 272; p. 317.
Glassware, Burner for fire-polishing. J. M. Said. No. 1,337,328; Apr. 20; v. 273; p. 443.
Glassware-forming mechanism. G. P. MacNichol. No. 1,343,179; June 8; v. 275; p. 360.
Glassware, Machine for grinding edges of. A. B. Knight. No. 1,327,830; Jan. 13; v. 270; p. 239.
Glassware, Machine for making hollow. S. D. Olsen. No. 1,329,253; Jan. 27; v. 270; p. 573.
Glassware, Method of and apparatus for manufacturing. E. P. Lindahl. No. 1,338,941; May 4; v. 274; p. 54.
Glassware-mold. K. E. Peiler and W. A. Lorenz. No. 1,331,471; Feb. 17; v. 271; p. 498.
Glazing apparatus. S. A. Kost. No. 1,363,602; Dec. 28; v. 281; p. 655.
Glazier's-point setter. J. R. Holy. No. 1,342,110; June 1; v. 275; p. 98.
Glazier's strip or point. H. A. Bailey. No. 1,344,610; June 29; v. 275; p. 835.
Glazing compounds, Device for applying. H. B. and O. C. Sabin. No. 1,343,408; June 15; v. 275; p. 468.
Glazing-machine. S. A. Kost and W. Yaeger. No. 1,342,450; June 8; v. 275; p. 216.
Globe. A. Schrenkeisen. No. 1,335,923; Apr. 6; v. 273; p. 41.
Globe, Demonstration-. M. Manson. No. 1,343,181; June 8; v. 275; p. 361.
Globe-holder. R. A. Hellenday. No. 1,357,559; Nov. 2; v. 280; p. 67.
Glove. E. Burden. No. 1,358,823; Nov. 16; v. 280; p. 423.
Glove. E. Burden. No. 1,358,824; Nov. 16; v. 280; p. 423.
Glove. J. H. Carmean. No. 1,354,241; Sept. 28; v. 278; p. 637.
Glove. B. Elsey, C. F. Zwick, and H. C. Lawson. No. 1,333,395; Mar. 9; v. 272; p. 282.
Glove. A. M. Oathout. No. 1,339,129; May 4; v. 274; p. 90.
Glove. T. Pacifico. No. 1,329,996; Feb. 3; v. 271; p. 122.
Glove. H. I. Seely. No. 1,358,791; Nov. 16; v. 280; p. 417.
Glove. W. M. Smith. No. 1,355,859; Oct. 19; v. 279; p. 370.
Glove and making same. G. P. Bosworth. No. 1,339,592; May 11; v. 274; p. 251.
Glove and producing same, Knitted. G. Stibbe. No. 1,346,516; July 13; v. 276; p. 296
Glove and producing same, Knitted. G. Stibbe. No. 1,346,517; July 13; v. 276; p. 296.
Glove-fastener. L. Reiter. No. 1,332,754; Mar. 2; v. 272; p. 111.
Glove, Gauntlet-. W. A. Cook. No. 1,328,078; Jan. 13; v. 270; p. 285.
Glove-pointing gage. G. S. Webb, Jr. No. 1,337,972; Apr. 20; v. 273; p. 565.
Glove, Pool-player's. A. G. Anast. No. 1,362,461; Dec. 14; v. 281; p. 341.
Glove-turning machine. D. Baum. No. 1,348,077; July 27; v. 276; p. 722.
Gloves, Rubber. J. B. Abler. No. 1,341,451; May 25; v. 274; p. 734.
Glue and manufacturing same. S. B. Henning. No. 1,329,599; Feb 3; v. 271; p. 48.
Glue and method of making the same, Vegetable. A. Ankli. No. 1,363,830; Dec. 28; v. 281; p. 699.
Glue, Autoclave-tray for cooking. L. Mauerhofer. No. 1,337,146; Apr. 13; v. 273; p. 333.
Glue-heaters, Electric. H. Kain, C. L. Miles, and G. A. Wilkinson. No. 1,351,478; Aug. 31; v. 277; p. 886.
Glue, Manufacturing vegetable. V. G. Bloede. No. 1,357,310; Nov. 2; v. 280; p. 21.
Glue-spreading machine, Roller scraper-bar for. H. G. Francis. No. 1,333,968; Mar. 16; v. 272; p. 451.
Gluing-machine. G. McConnell. No. 1,339,467; May 11; v. 274; p. 228.
Gluten coating material to a support-base or underlayer, Device for applying. M. van Avermaete. No. 1,361,932; Dec. 14; v. 281; p. 237.
Golf-club. T. H. Grant. No. 1,343,998; June 22; v. 275; p. 650.
Goggles. F. A. Ihrcke. No. 1,338,505; Apr. 27; v. 273; p. 735.
Goggles. G. S. Johnston, F. A. Ihrcke, and C. A. Partenheimer; No. 1,338,508; Apr. 27; v. 273; p. 735.
Goggles. L. C. King. No. 1,335,508; Mar. 30; v. 272; p. 847.
Goggles. G. L. Tully. No. 1,335,140; Mar. 30; v. 272; p. 779.
Goggles. F. E. Weeks. No. 1,337,420; Apr. 20; v. 273; p. 459.
Goggles. F. Willson. No. 1,339,731; May 11; v. 274; p. 278.
Gold, Extracting. C. A. Perry. No. 1,361,489; Dec. 7; v. 281; p. 103.
Gold from its ores, Means for steaming amalgamating-plates used in the recovery of. D. C. Bowen and J. F. Walker. No. 1,334,333; Mar. 23; v. 272; p. 566.
Gold from sand, Machine for separating. J. W. Turk. No. 1,330,963; Feb. 17; v. 271; p. 404.
Gold-leaf, Apparatus for and method of manufacturing mounted. F. H. Davis. No. 1,334,947; Mar. 30; v. 272; p. 742.
Gold, Production of white. D. Belais. No. 1,330,281; Feb. 10; v. 271; p. 197.
Gold-saving device. W. D. Bludworth. No. 1,327,854; Jan. 13; v. 270; p. 243.
Gold-saving receptacle. I. A. Burnett. No. 1,340,213; May 18; v. 274; p. 426.
Gold-separator. A. Seinsche. No. 1,335,612; Mar. 30; v. 272; p. 866.
Gold, silver, and platinum from sand, Machine for the separation of. D. Diver. No. 1,329,113; Jan. 27; v. 270; p. 547.
Golf-bag. G. L. Pierce. No. 1,357,590; Nov. 2; v. 280; p. 73.
Golf-ball. G. C. Worthington and W. E. Reichard. No. 1,351,145; Aug. 31; v. 277; p. 819.
Golf-ball and making, Inflated. F. T. Roberts. No. 1,329,310; Jan. 27; v. 270; p. 582.
Golf-ball marker. J. D. Lyon. No. 1,339,569; May 11; v. 274; p. 247.
Golf-ball practice substitute. E. J. Vogel. No. 1,363,446; Dec. 28; v. 281; p. 624.
Golf-club. A. Backus. No. 1,336,671; Apr. 13; v. 273; p. 243.
Golf-club. W. Bernays. No. 1,361,957; Dec. 14; v. 281; p. 242.
Golf-club. C. W. Booth. No. 1,349,805; Aug. 17; v. 277; p. 452.
Golf-club. C. W. Booth. No. 1,349,806; Aug. 17; v. 277; p. 452.
Golf-club. A. J. Campbell. No. 1,355,889; Oct. 19; v. 279; p. 376.

Digitized by Google

Alphabetical list of inventions—Continued.

Golf-club. E. V. Hartford. No. 1,331,499; Feb. 24; v. 271; p. 523.
Golf-club. A. P. Olson. No. 1,352,020; Sept. 7; v. 278; p. 60.
Golf club. W. F. Reach. No. 1,337,958; Apr. 20; v. 273; p. 562.
Golf-club head. W. G. Horton. No. 1,361,258; Dec. 7; v. 281; p. 55.
Golf-club-testing device. C. L. Lawton. No. 1,351,768; Sept. 7; v. 278; p. 10.
Golf-club, Wooden. R. F. Beamer. No. 1,359,220; Nov. 16; v. 280; p. 498.
Golf game. C. A. Rolfe. No. 1,338,963; May 4; v. 274; p. 58.
Golf game, Indoor-. W. H. Seagrave. No. 1,334,176; Mar. 16; v. 272; p. 490.
Golf-hole renovator. R. L. Whitman. No. 1,340,927; May 25; v. 274; p. 632.
Golf practice, Captive ball for. C. A. B. Schnurr. No. 1,326,976; Jan. 6; v. 270; p. 18.
Golf score-card. K. W. Brown. No. 1,353,889; Sept. 28; v. 278; p. 565.
Golf-stick. W. G. Ruggles. No. 1,327,171; Jan. 6; v. 270; p. 55.
Golf-stroke indicator. B. M. Beskow. No. 1,358,698; Nov. 16; v. 280; p. 398.
Golf-tee. W. F. Mahoney. No. 1,335,005; Mar. 30; v. 272; p. 753.
Gong, Motor-. J. R. Hamilton. No. 1,343,365; June 15; v. 275; p. 460.
Gopher-trap. A. Maron. No. 1,344,807; June 29; v. 275; p. 873.
Gopher-trap. F. Morrison. No. 1,363,260; Dec. 28; v. 281; p. 589.
Gopher-trap. J. F. Stankiewicz. No. 1,351,351; Aug. 31; v. 277; p. 862.
Gopher-trap. L. C. Thomas. No. 1,363,626; Dec. 28; v. 281; p. 659.
Governing and emergency mechanism. D. Cockburn and D. MacNicoll. No. 1,347,208; July 20; v. 276; p. 491.
Governor. B. E. Cederstrom. No. 1,343,389; June 15; v. 275; p. 465.
Governor, E. A. Field, Jr. No. 1,354,608; Oct. 5; v. 279; p. 32.
Governor. W. Gadke. No. 1,362,689; Dec. 21; v. 281; p. 437.
Governor. S. M. Kenerson. No. 1,334,499; Mar. 23; v. 272; p. 597.
Governor. F. Pokorny, Jr. No. 1,348,956; Aug. 10; v. 277; p. 212.
Governor. W. M. White. No 1,355,294; Oct 12; v. 279; p. 220.
Governor. W. H. Young. No. 1,346,521; July 13; v. 276; p. 297.
Governor, Automatic. F. J. Brumme. No. 1,343,808; June 15; v. 275; p. 548.
Governor, Centrifugal. A. Kimble. No. 1,357,403; Nov. 2; v. 280; p. 39.
Governor drive mechanism. T. Douglas. No. 1,338,862; Apr. 27; v. 273; p. 708.
Governor, Electric. H. A. Burt and F. H. Wiley. No. 1,333,385; Mar. 9; v. 272; p. 281.
Governor, Engine-. W. Robbins and H. F. Bryan. No. 1,334,555; Mar. 23; v. 272; p. 608.
Governor, Engine and like. D. Cockburn and D. MacNicoll. No. 1,331,416; Feb. 17; v. 271; p. 487.
Governor, Fluid-pressure. W. V. Turner. No. 1,346,861; July 20; v. 276; p. 423.
Governor, Fly-ball. M. Haeberlein. No. 1,352,189; Sept. 7; v. 278; p. 91.
Governer, Foot-controlled electric. H. D. Flegel. No. 1,345,080; June 29; v. 275; p. 924.
Governor for motor-vehicles. D. W. Sellek. No. 1,338,196; Apr. 27; v. 273; p. 676.
Governor, Frictional. W. W. Dean. No. 1,349,050; Aug. 10; v. 277; p. 230.
Governor, Gas-engine. J. Kathe. No. 1,351,660; Aug. 31; v. 277; p. 922.
Governor, Magneto-. T. J. Kresky. No. 1,339,655; May 11; v. 274; p. 264.
Governor mechanism. H. K. Sandell. No. 1,329,800; Feb. 3; v. 271; p. 85.
Governor mechanism, Centrifugal. M. E. Smith. No. 1,355,008; Oct. 5; v. 279; p. 111.
Governor, Motor-. C. H. Gill. No. 1,350,018; Aug. 17; v. 277; p. 492.
Governor, Proportional. J. T. Wilkin. No. 1,341,696; June 1; v. 275; p. 16.
Governor, Self-oiling. W. V. Thomas. No. 1,352,850; Sept. 14; v. 278; p. 257.
Governor, Speed-. H. G. Saal. No. 1,352,223; Sept. 7; v. 278; p. 98.
Governor, Spring-motor. G. T. Cherington. No. 1,362,782; Dec. 21; v. 281; p. 456.
Governor, Tractor-. W. and M. Tuma. No. 1,340,993; May 25; v. 274; p. 645.
Governors, Means for protecting. R. H. Manson. No. 1,346,228; July 13; v. 276; p. 239.
Grab. D. J. Barnard. No. 1,354,651; Sept. 21; v. 278; p. 475.
Grab, lifting-dogs, and like lifting apparatus. W. J. Hollick. No. 1,339,341; May 4; v. 274; p. 127.
Grade-crossing guard. E. M. Tolston. No. 1,362,650; Dec. 21; v. 281; p. 430.
Grade-indicator. J. Gage. No. 1,336,694; Apr. 13; v. 273; p. 247.
Grade-meter. C. O. Ericson. No. 1,360,102; Nov. 23; v. 280; p. 719.
Grader. J. and F. Nelson. No. 1,355,999; Oct. 19; v. 279; p. 397.
Grader and metal-catcher, Pneumatic. A. J. Roberts. No. 1,355,270; Oct. 12; v. 279; p. 216.
Grader, Fruit-. R. I. Sibley. No. 1,353,075; Sept. 4. v. 278; p. 301.
Grader, Road-. T. C. Bullock. No. 1,363,454; Dec. 28; v. 281; p. 625.
Grader, Road-. R. C. Cox. No. 1,339,548; May 11; v. 274; p. 243.
Grader, Road-. A. N. Daywitt. No. 1,349,498; Aug. 10; v. 277; p. 319.
Grader, Road-. J. B. Hodges. No. 1,331,812; Feb. 24; v. 271; p. 583.
Grader, Road-. J. R. Key. No. 1,328,233; Jan. 13; v. 270; p. 315.
Grader, Road-. C. P. Miller. No. 1,354,264; Sept. 28; v. 278; p. 642.
Grader, Road-. J. M. Monroe. No. 1,333,504; Mar. 9; v. 272; p. 303.
Grader, Road-. C. Speth. No. 1,339,866; May 11; v. 274; p. 304.
Grader, Rotary road-. C. C. Stewart. No. 1,334,001; Mar. 16; v. 272; p. 458.
Grader, Seed-. E. A. Watkins. No. 1,349,306; Aug. 10; v. 277; p. 281.
Graders, Roller for road-surfacing. M. Haynes. No. 1,330,531; Feb. 10; v. 271; p. 253.
Graders, Scarifier attachment for road-. J. A. Williams. No. 1,352,714; Sept. 14; v. 278; p. 230.
Grading apparatus, Road-. P. M. Cadwell. No. 1,355,938; Oct. 19; v. 279; p. 385.
Grading finely-comminuted materials, Apparatus for. C. Q. Payne. No. 1,354,063; Sept. 28; v. 278; p. 601.
Grading-machine. A. Anderson. No. 1,363,704; Dec. 28; v. 281; p. 674.
Grading-machine. E. P. Brown. No. 1,347,008; July 20; v. 276; p. 453.
Grading-machine. L. G. Carey. No. 1,356,038; Oct. 19; v. 279; p. 405.
Grading-machine. T. R. McKnight. No. 1,329,669; Feb. 3; v. 271; p. 60.
Grading-machine. O. E. Moats, J. B. Rhodes, and J. D. Benbow. No. 1,357,245; Nov. 2; v. 280; p. 9.
Grading-machine. J. R. Pile. No. 1,340,497; May 18; v. 274; p. 480.
Grading-machine. W. Pilger. No. 1,363,346; Dec. 28; v. 281; p. 605.
Grading machine, Lumber and timber. J. G. McDonough. No. 1,351,777; Sept. 7; v. 278; p. 12.
Grading machine, Road-. O. H. Kirkpatrick. No. 1,332,502; Mar. 2; v. 272; p. 63.
Grading or separating machine. S. Marshall. No. 1,341,571; May 25; v. 274; p. 757.
Gradometer. R. A. Saeger. No. 1,348,055; July 27; v. 276; p. 717.
Grain and hay stacker. J. Habbart. No. 1,346,020; July 6; v. 276; p. 137.
Grain and stock rack. G. S. Sowers. No. 1,333,879; Mar. 16; v. 272; p. 434.
Grain, Apparatus for heating and tempering. J. H. Mayhew. No. 1,361,475; Dec. 7; v. 281; p. 100.
Grain, Apparatus for stacking and storing. D. M. Graham. No. 1,332,494; Mar. 2; v. 272; p. 61.
Grain binders or harvesters, Carrier attachment for. J. Grohs. No. 1,362,617; Dec. 21; v. 281; p. 423.
Grain-bundle shocker, Revolving. H. Baxter. No. 1,335,419; Mar. 30; v. 272; p. 830.
Grain-cleaner. H. A. Holtan. No. 1,354,750; Oct. 5; v. 279; p. 60.
Grain-cleaner. A. K. MacLean. No. 1,360,556; Nov. 30; v. 280; p. 876.
Grain-cleaner. C. Mettler, Sr. No. 1,356,777; Oct. 26; v. 279; p. 597.
Grain-cleaner. J. Waitekaites. No. 1,360,062; Nov. 23; v. 280; p. 710.
Grain-cleaner. E. M. Warrenfeltz. No. 1,360,335; Nov. 30; v. 280; p. 832.
Grain cleaner, separator, and drier. W. A. Pettys. No. 1,345,230; June 29; v. 275; p. 953.
Grain-cleaning machine. J. A. Cowan. No. 1,356,043; Oct. 19; v. 279; p. 406.
Grain-cleaning sieve. H. Juhlke. No. 1,334,761; Mar. 23; v. 272; p. 647.
Grain-cup clip. J. W. Williams. No. 1,332,090; Feb. 24; v. 271; p. 635.
Grain-drier. H. C. Ellis. No. 1,327,863; Jan. 13; v. 270; p. 245.
Grain-drier. H. C. Ellis. No. 1,331,983; Feb. 24; v. 271; p. 615.
Grain-drier. O. W. Randolph. No. 1,346,335; July 13; v. 276; p. 261.
Grain-drier. E. M. Warrenfeltz. No. 1,360,336; Nov. 30; v. 280; p. 833.
Grain-drill. A. M. Threewits. No. 1,345,517; July 6; v. 276; p. 37.
Grain-drill coupling. F. V. Dolsby. No. 1,361,695; Dec. 7; v. 281; p. 144.

Digitized by Google

Grain-elevator. J. H. A. Brahtz. No. 1,342,416; June 8; v. 275; p. 210.
Grain-elevator. W. E. Echterling. No. 1,349,948; Aug. 17; v. 277; p. 478.
Grain-elevator. B. E. Getz. No. 1,353,335; Sept. 21; v. 278; p. 411.
Grain-elevator. D. Groenewold. No. 1,340,606; May 18; v. 274; p. 501.
Grain-elevator. J. B. Majerus. No. 1,338,514; Apr. 27; v. 273; p. 736.
Grain-elevator. J. S. Myers. No. 1,356,390; Oct. 19; v. 279; p. 475.
Grain-flow regulator. J. Cadwell. No. 1,334,929; Mar. 23; v. 272; p. 680.
Grain-heading machines, Pusher for. E. H. Springer. No. 1,338,707; May 4; v. 274; p. 11.
Grain-pickler. F. L. Phillips. No. 1,327,444; Jan. 6; v. 270; p. 105.
Grain-pickler. A. E. Rockola. No. 1,344,148; June 22; v. 275; p. 678.
Grain-reclaimer. W. L. Isom. No. 1,331,710; Feb. 24; v. 271; p. 563.
Grain-sampler. E. G. Boerner and E. H. Ropes. No. 1,354,016; Sept. 28; v. 278; p. 591.
Grain-scouring machine. E. H. Stapp. No. 1,345,273; June 29; v. 275; p. 962.
Grain seed-cup. C. H. Pelton. No. 1,359,738; Nov. 23; v. 280; p. 647.
Grain, seed, manure, &c., Implement for sowing. C. Bristow. No. 1,331,235; Feb. 17; v. 271; p. 453.
Grain-separator. H. E. Behrens. No. 1,346,630; July 13; v. 276; p. 319.
Grain-separator. C. E. Braddy. No. 1,327,198; Jan. 6; v. 270; p. 59.
Grain-separator. N. G. Ek. No. 1,341,791; June 1; v. 275; p. 35.
Grain-separator. T. O. Helgerson. No. 1,336,958; Apr. 13; v. 273; p. 298.
Grain-separator. W. C. Hinds. No. 1,333,757; Mar. 16; v. 272; p. 412.
Grain-separator. H. H. Meyer. No. 1,353,059; Sept. 14; v. 278; p. 298.
Grain-separator. C. P. Nall. No. 1,333,127; Mar. 9; v. 272; p. 232.
Grain-separator. C. A. Rieck. No. 1,362,896; Dec. 21; v. 281; p. 477.
Grain separator and grader. H. C. Wallace and O. N. Gredell. No. 1,360,834; Nov. 30; v. 280; p. 930.
Grain-separator feeder. E. M. Liebers. No. 1,339,206; May 4; v. 274; p. 103.
Grain-separator, Gravity. A. J. Schlunke. No. 1,353,856; Sept. 28; v. 278; p. 559.
Grain-shocker. C. W. Ames. No. 1,357,537; Nov. 2; v. 280; p. 63.
Grain-shocker. G. Innes and J. H. Prall. No. 1,346,542; July 13; v. 276; p. 302.
Grain-shocker. G. Innes and J. H. Prall. No. 1,346,543; July 13; v. 276; p. 302.
Grain-shocker. J. G. Stewart. No. 1,358,683; Nov. 9; v. 280; p. 351.
Grain-shocker. P. Wagner. No. 1,331,224; Feb. 17; v. 271; p. 451.
Grain-shocker. A. Wiig, W. J. Braden, and L. R. Prather. No. 1,355,108; Oct. 5; v. 279; p. 131.
Grain-shocker, Automatic. A. P. Lofstrand. No. 1,340,781; May 18; v. 274; p. 533.
Grain-shocking machine. A. McDonald. No. 1,344,348; June 22; v. 275; p. 718.
Grain-sieve. N. G. Ek. No. 1,341,792; June 1; v. 275; p. 36.
Grain-spout mechanism. L. E. Wray. No. 1,349,354; Aug. 10; v. 277; p. 291.
Grain-storage bin. L. H. Dickelman. No. 1,339,437; May 11; v. 274; p. 221.
Grain-storehouse construction. L. H. Dickelman. No. 1,336,945; Apr. 13; v. 273; p. 296.
Grain-storehouse, Ventilated. L. H. Dickelman. No. 1,328,132; Jan. 13; v. 270; p. 296.
Grain-treating supply-tank. J. O. and E. M. Pierson. No. 1,363,053; Dec. 21; v. 281; p. 508.
Grain-unloading process and grain-car track construction. H. Richardson. No. 1,350,736; Aug. 24; v. 277; p. 679.
Graining. P. A. Gstalder. No. 1,347,028; July 20; v. 276; p. 457.
Gramophone-controlling means. C. A. Fisk. No. 1,354,961; Oct. 5; v. 279; p. 102.
Gramophone-drive. F. Myers. No. 1,343,640; June 15; v. 275; p. 514.
Gramophone, phonograph, &c. J. Hoffay. No. 1,326,932; Jan. 6; v. 270; p. 10.
Gramophones, Repeating attachment for. J. Bloom and S. Schroepfer. No. 1,358,613; Nov. 9; v. 280; p. 336.
Granite, Producing duplicate patterns in. J. Harwood. No. 1,349,955; Aug. 17; v. 277; p. 480.
Granite-surfacing machines, Dust-removing device for. C. S. Alford and O. Lombard. No. 1,333,597; Mar. 16; v. 272; p. 381.
Granular and pulverulent material, Lixiviation of. G. Grondal. No. 1,363,970; Dec. 28; v. 281; p. 726.
Granular-material and grain purifying machine. Broken-. T. Parkinson. No. 1,348,043; July 27; v. 276; p. 715.
Granular or communicated material, Apparatus for molding bodies of. C. L. Norton. No. 1,332,677; Mar. 2; v. 272; p. 96.
Granular or communicated material, Making molded bodies of. C. L. Norton. No. 1,332,676; Mar. 2; v. 272; p. 96.
Grapefruit-corer. M. W. Pifer. No. 1,351,216; Aug. 31; v. 277; p. 834.
Graphic recording instrument. J. W. Bard and O. White. No. 1,350,485; Aug. 24; v. 277; p. 680.
Graphite article and making same. S. C. Linbarger. No. 1,339,266; May 4; v. 274; p. 114.
Graphite articles, Manufacturing. F. R. Kemmer. No. 1,357,290; Nov. 2; v. 280; p. 18.
Graphite mold. J. H. L. De Bats. No. 1,359,156; Nov. 16; v. 280; p. 486.
Graphite, Producing flake-. S. W. Osgood. No. 1,328,845; Jan. 27; v. 270; p. 496.
Graphophone. A. Herbert. No. 1,332,722; Mar. 2; v. 272; p. 105.
Graphophone. A. Herbert. No. 1,332,723; Mar. 2; v. 272; p. 105.
Grapple. W. M. Land and W. R. Carter. No. 1,357,099; Oct. 26; v. 279; p. 660.
Grapple. A. B. Utley. No. 1,356,841; Oct. 26; v. 279; p. 610.
Grapple device. F. Raidt. No. 1,332,234; Mar. 2; v. 272; p. 11.
Grapple, Lifting-. A. Awischus. No. 1,350,053; Aug. 17; v. 277; p. 499.
Grapples or tongs, Logging. A. J. Zipp. No. 1,340,313; May 18; v. 274; p. 445.
Grass cutter, Bermuda-. M. Bronnum. No. 1,349,809; Aug. 17; v. 277; p. 452.
Grass-destroyer. A. Coker. No. 1,332,321; Mar. 2; v. 272; p. 27.
Grass destroyer, Quack-. W. F. A. Strey. No. 1,328,697; Jan. 20; v. 270; p. 439.
Grate. W. J. Ratekin. No. 1,329,629; Feb. 3; v. 271; p. 53.
Grate. W. J. Ratekin. No. 1,344,062; June 22; v. 275; p. 662.
Grate. C. F. Schilling. No. 1,359,111; Nov. 16; v. 280; p. 478.
Grate. J. S. Wilson. No. 1,349,644; Aug. 17; v. 277; p. 420.
Grate and ash-sifter, Combined. J. A. Long. No. 1,362,427; Dec. 14; v. 281; p. 334.
Grate-bar. L. L. Close. No. 1,338,070; Apr. 27; v. 273; p. 653.
Grate-bar, Hollow. J. M. Hopwood. No. 1,330,536; Feb. 10; v. 271; p. 254.
Grate-bars, Means for locking. L. L. Close. No. 1,327,270; Jan. 6; v. 270; p. 73.
Grate, Fire-. J. J. Fowden. No. 1,337,214; Apr. 20; v. 273; p. 421.
Grate for automatic stoking, Rotating. J. Moe. No. 1,342,026; June 1; v. 275; p. 81.
Grate, Forced-draft water-. H. F. Morris. No. 1,348,235; Aug. 3; v. 277; p. 21.
Grate, Gas-. R. W. Anthony. No. 1,354,531; Oct. 5; v. 279; p. 17.
Grate, Gas-kindling. S. Grotkowski. No. 1,344,341; June 22; v. 275; p. 716.
Grate, Inlet. G. D. Fairtrace. No. 1,360,630; Nov. 30; v. 280; p. 891.
Grate, Sifting-. G. E. Bryson. No. 1,359,869; Nov. 23; v. 280; p. 672.
Grate, Traveling. W. Lloyd. No. 1,357,786; Nov. 2; v. 280; p. 111.
Grater. D. P. Cera. No. 1,335,481; Mar. 30; v. 272; p. 842.
Grater attachment. J. C. Kottman. No. 1,349,616; Aug. 17; v. 277; p. 415.
Grating. P. H. E. Scherbner. No. 1,346,426; July 13; v. 276; p. 278.
Grating. H. H. Uris. No. 1,335,623; Mar. 30; v. 272; p. 868.
Grating and constructing same. O. Jackson. No. 1,356,151; Oct. 19; v. 279; p. 428.
Grating device. P. Margolfo. No. 1,359,419; Nov. 16; v. 280; p. 537.
Grating device. S. Santilli. No. 1,346,340; July 13; v. 276; p. 262.
Grating machine. J. R. Berardy. No. 1,362,075; Dec. 14; v. 281; p. 266.
Grating, Vertically-movable folding. H. Edholm. No. 1,356,346; Oct. 19; v. 279; p. 467.
Gratings, Support for. W. E. Irving. No. 1,327,711; Jan. 13; v. 270; p. 217.
Grave-lining device. L. Goodwin. No. 1,348,405; Aug. 3; v. 277; p. 54.
Gravel, Apparatus for screening and washing. R. W. Dull. No. 1,342,990; June 8; v. 275; p. 323.
Gravel-screen. J. Davison. No. 1,363,762; Dec. 28; v. 281; p. 685.
Gravity-carrier. C. H. Lister. No. 1,348,500; Aug. 3; v. 277; p. 72.
Gravity-kiln. T. F. Anderson. No. 1,363,215; Dec. 28; v. 281; p. 580.
Gravity supporting device. W. Knapp. No. 1,331,569; Feb. 24; v. 271; p. 536.

Digitized by Google

Grease container and dispenser. D. Runyen. No. 1,330,987; Feb. 17; v. 271; p. 408.
Grease container and dispenser for heavy greases. A. J. Wood. No. 1,349,994; Aug. 17; v. 277; p. 488.
Grease-cup. A. C. J. Allen. No. 1,358,493; Nov. 9; v. 280; p. 313.
Grease-cup. L. N. Bourdeau. No. 1,337,432; Apr. 20; v. 273; p. 462.
Grease-cup. C. D. Corliss. No. 1,347,472; July 20; v. 276; p. 543.
Grease-cup. J. F. Craven. No. 1,351,841; Sept. 7; v. 278; p. 25.
Grease-cup. S. Dawson. No. 1,345,434; July 6; v. 276; p. 21.
Grease-cup. S. Dawson. No. 1,348,154; Aug. 3; v. 277; p. 4.
Grease-cup. L. R. Fogg. No. 1,361,844; Dec. 14; v. 281; p. 220.
Grease-cup. C. C. Hamilton and J. Hutchinson. No. 1,336,135; Apr. 6; v. 273; p. 82.
Grease-cup. S. A. Hough and S. Baader. No. 1,327,288; Jan. 6; v. 270; p. 67.
Grease-cup. S. Hough and S. Baader. No. 1,332,440; Mar. 2; v. 272; p. 51.
Grease-cup. E. W. K'Burg. No. 1,348,362; Aug. 3; v. 277; p. 46.
Grease-cup. W. F. Lent. No. 1,328,573; Jan. 20; v. 270; p. 416.
Grease-cup. J. F. MacIndoe. No. 1,358,171; Sept. 21; v. 278; p. 380.
Grease-cup. A. W. and J. N. Martin. No. 1,337,717; Apr. 20; v. 273; p. 516.
Grease-cup. H. J. Murphy. No. 1,335,521; Mar. 30; v. 272; p. 849.
Grease-cup. E. Nolan. No. 1,353,607; Sept. 21; v. 278; p. 466.
Grease-cup. G. B. Pickop. No. 1,345,953; July 6; v. 276; p. 124.
Grease-cup. G. H. Sargent. No. 1,332,920; Mar. 9; v. 272; p. 194.
Grease-cup attachment. V. P. McVoy. No. 1,357,885; Nov. 2; v. 280; p. 131.
Grease-cup, Automatic. W. E. Rich. No. 1,357,082; Oct. 26; v. 279; p. 657.
Grease-cup, Duplex. S. S. Williamson. No. 1,332,453; Mar. 2; v. 272; p. 53.
Grease-cup filler. F. K. Lawrence. No. 1,341,652; June 1; v. 275; p. 7.
Grease-cup lid. J. H. Miller. No. 1,351,922; Sept. 7; v. 278; p. 42.
Grease-cup plug. J. G. Blunt. No. 1,341,411; May 25; v. 274; p. 726.
Grease-cups, Cover-locking device for. W. G. Hofmann. No. 1,352,064; Sept. 7; v. 278; p. 68.
Grease-cups, Lid for. J. H. Miller. No. 1,341,190; May 25; v. 274; p. 683.
Grease-detaining device. G. A. Smith. No. 1,327,173; Jan. 6; v. 270; p. 55.
Grease-dispensing device. J. H. Montgomery. No. 1,338,519; Apr. 27; v. 273; p. 737.
Grease from organic matter, Apparatus for extracting. K. A. Stahlgren and T. L. Shannon. No. 1,341,523; May 25; v. 274; p. 747.
Grease-gun attachment. J. W. Thompson. No. 1,339,237; May 4; v. 274; p. 109.
Grease-retainer. J. H. Workman. No. 1,359,139; Nov. 16; v. 280; p. 483.
Grease, Transformer-. Y. Tanaka. No. 1,360,153; Nov. 23; v. 280; p. 729.
Greenhouse-bench. J. K. Nielsen. No. 1,360,669; Nov. 30; v. 280; p. 898.
Greenhouses, Sill-joint for cut-to-fit. T. J. Callahan. No. 1,335,554; Mar. 30; v. 272; p. 856.
Grenade. E. J. W. Ragsdale. No. 1,358,652; Nov. 9; v. 280; p. 344.
Grenade. K. H. Smith. No. 1,344,733; June 29; v. 275; p. 859.
Grenade, Hand-. A. G. Bergman. No. 1,330,424; Feb. 10; v. 271; p. 233.
Grenade, Hand-. A. G. Bergman. No. 1,330,425; Feb. 10; v. 271; p. 233.
Grenade, Hand-. A. G. Bergman. No. 1,339,735; May 11; v. 274; p. 279.
Grenade, Hand-. A. G. Bergman. No. 1,363,079; Dec. 21; v. 281; p. 513.
Grenade, Hand-. A. Thompson and H. J. S. Dennison. No. 1,327,451; Jan. 6; v. 270; p. 106.
Grid, Accumulator electrode-. S. Willner. No. 1,347,770; July 27; v. 276; p. 661.
Grid, Adjustable broiling-. G. B. Child. No. 1,337,043; Apr. 13; v. 273; p. 314.
Griddle. E. W. Howe. No. 1,342,444; June 8; v. 275; p. 215.
Griddle-greaser. A. St. Onge. No. 1,335,998; Apr. 6; v. 273; p. 56.
Griddle-pan. G. P. Gatchell. No. 1,332,251; Mar. 2; v. 272; p. 14.
Gridiron. M. A. Ford. No. 1,345,590; July 6; v. 276; p. 52.
Gridiron. J. J. Seguler. No. 1,327,258; Jan. 6; v. 270; p. 71.
Grinder. C. M. Cook. No. 1,336,200; Apr. 6; v. 273; p. 94.
Grinder. C. Jackson. No. 1,344,133; June 22; v. 275; p. 676.
Grinder. C. Jackson. No. 1,346,893; July 20; v. 276; p. 430.
Grinder. H. J. Swanson. No. 1,364,006; Dec. 28; v. 281; p. 733.
Grinder and gummer machine, Combined. G. P. Nabors. No. 1,347,965; July 27; v. 276; p. 698.
Grinder and pulverizer, Compound. S. H. Herbst, Jr. No. 1,358,739; Nov. 16; v. 280; p. 407.
Grinder and shaker, Combined. W. A. Hammer. No. 1,327,885; Jan. 6; v. 270; p. 94.
Grinder and shredder. H. J. Shelton. No. 1,357,190; Oct. 26; v. 279; p. 677.
Grinder-cage. M. F. Williams. No. 1,359,303; Nov. 16; v. 280; p. 515.
Grinder, Corn-. F. M. Lyon. No. 1,350,261; Aug. 17; v. 277; p. 539.
Grinder, Cylinder-. C. A. Wolfe. No. 1,354,866; Oct. 5; v. 279; p. 84.
Grinder, Hacksaw-. E. E. Henry. No. 1,336,959; Apr. 13; v. 273; p. 298.
Grinder, Lens-. D. D. Sullivan. No. 1,331,037; Feb. 17; v. 271; p. 418.
Grinder, Lens-. E. D. Tillyer and L. W. Bugbee. No. 1,347,766; July 27; v. 276; p. 660.
Grinder, Meat-. W. J. Anderson. No. 1,330,775; Feb. 17; v. 271; p. 367.
Grinder, Meat-. P. F. Loichot. No. 1,350,164; Aug. 17; v. 277; p. 520.
Grinder, Meat-. J. Miller. No. 1,332,135; Feb. 24; v. 271; p. 643.
Grinder, Potato-. L. Berk. No. 1,361,670; Dec. 7; v. 281; p. 139.
Grinder, Pulp-wood. J. H. Baker. No. 1,359,016; Nov. 16; v. 280; p. 461.
Grinder, Rail-. E. P. Tabor. No. 1,340,991; May 25; v. 274; p. 645.
Grinder-stone dresser, Automatic. F. E. Riley. No. 1,333,445; Mar. 9; v. 272; p. 292.
Grinder, Thread-. D. Fitzpatrick. No. 1,304,031; May 11; v. 274; p. 334.
Grinder, Valve-. P. P. Hinckley. No. 1,350,804; Aug. 24; v. 277; p. 692.
Grinders, Cage for. H. M. Plaisted. No. 1,359,426; Nov. 16; v. 280; p. 540.
Grinders, Operating device for valve-. F. F. Woods. No. 1,331,307; Feb. 17; v. 271; p. 466.
Grinders, Sliding base for. M. F. Williams. No. 1,350,691; Aug. 24; v. 277; p. 670.
Grinding and polishing machine, Gem. A. Boerner. No. 1,331,480; Feb. 24; v. 271; p. 519.
Grinding and polishing, Method and means for preparing lenses for. W. Taylor and F. W. Preston. No. 1,332,778; Mar. 2; v. 272; p. 115.
Grinding and pulverizing machine. F. W. Lehrack. No. 1,362,948; Dec. 21; v. 281; p. 487.
Grinding and smoothing mechanism, Apparatus for applying abrasives to. H. K. Hitchcock. No. 1,336,521; Apr. 13; v. 273; p. 213.
Grinding apparatus, Cam-. H. W. Dunbar, A. Turner, and G. H. Smith. No. 1,339,746; May 11; v. 274; p. 281.
Grinding apparatus, Cylinder-. C. R. Hauser. No. 1,359,699; Nov. 23; v. 280; p. 638.
Grinding calcium and product thereof. J. H. Ryan. No. 1,328,299; Jan. 20; v. 270; p. 364.
Grinding compound. J. F. Werder. No. 1,353,197; Sept. 21; v. 278; p. 385.
Grinding concaved spherical surfaces, Machine for. A. Danielsson. No. 1,352,790; Sept. 14; v. 278; p. 245.
Grinding conical rollers, Machinery for. S. G. Wingquist and B. W. Fjellman. No. 1,345,468; July 6; v. 276; p. 28.
Grinding cutters, reamers, and like tools, Machine for. R. M. Nicolaysen. No. 1,336,533; Apr. 13; v. 273; p. 216.
Grinding device for rotary cutters. H. M. Loomer. No. 1,353,254; Sept. 21; v. 278; p. 395.
Grinding device, Portable. F. G. Peck. No. 1,340,120; May 11; v. 274; p. 352.
Grinding diatomaceous earth. J. E. Schneider. No. 1,357,480; Nov. 2; v. 280; p. 52.
Grinding helical blades, Machine for. P. C. Donner. No. 1,330,981; Feb. 17; v. 271; p. 407.
Grinding internal and external surfaces to fit, Apparatus for. S. A. Ely. No. 1,332,437; Mar. 2; v. 272; p. 51.
Grinding-machine. P. S. Arnold. No. 1,351,409; Aug. 31; v. 277; p. 873.
Grinding-machine. J. De Koning. No. 1,363,194; Dec. 21; v. 281; p. 535.
Grinding-machine. C. Gabelman. No. 1,345,919; July 6; v. 276; p. 117.
Grinding-machine. E. B. Gardner. No. 1,337,353; Apr. 20; v. 273; p. 447.
Grinding-machine. O. Garrison. No. 1,328,953; Jan. 27; v. 270; p. 517.
Grinding-machine. A. Heisler. No. 1,356,361; Oct. 19; v. 279; p. 496.

Digitized by Google

Alphabetical list of inventions—Continued.

Grinding-machine. J. Herche. No. 1,355,093; Oct. 5; v. 279; p. 128.
Grinding-machine. F. G. Holland. No. 1,356,068; Oct. 19; v. 279; p. 411.
Grinding-machine. G. C. Kimmel. No. 1,337,139; Apr. 13; v. 273; p. 332.
Grinding-machine. G. C. Kimmel. No. 1,337,140; Apr. 13; v. 273; p. 332.
Grinding-machine. T. S. McGuire. No. 1,359,718; Nov. 23; v. 280; p. 642.
Grinding-machine. W. M. Milligan. No. 1,354,456; Sept. 28; v. 278; p. 680.
Grinding-machine. R. C. Mitchell. No. 1,335,905; Apr. 6; v. 273; p. 38.
Grinding-machine. C. F. Motz. No. 1,361,085; Dec. 7; v. 281; p. 21.
Grinding-machine. O. Onsrud. No. 1,341,818; June 1; v. 275; p. 40.
Grinding-machine. A. E. Pearson. No. 1,328,894; Jan. 27; v. 270; p. 506.
Grinding-machine. H. J. Perkins. No. 1,337,617; Apr. 20; v. 273; p. 497.
Grinding-machine. F. H. Perry. No. 1,347,656; July 27; v. 276; p. 637.
Grinding-machine. W. Travell. No. 1,333,946; Mar. 16; v. 273; p. 447.
Grinding machine, Ball-. J. J. Grant. No. 1,357,044; Oct. 26; v. 279; p. 649.
Grinding machine, Ball-. J. J. Grant. No. 1,357,045; Oct. 26; v. 279; p. 650.
Grinding-machine. Z. Littman. No. 1,361,883; Dec. 14; v. 281; p. 227.
Grinding machine, Ball-. J. J. McIntyre. No. 1,334,773; Mar. 23; v. 272; p. 649.
Grinding machine, Cutlery-. W. Tyzack, A. Wright, and H. Senior. No. 1,355,870; Oct. 19; v. 279; p. 372.
Grinding machine, Cutter-. F. Müller. No. 1,338,319; Apr. 27; v. 273; p. 700.
Grinding machine, Cutter-. F. Müller. No. 1,338,320; Apr. 27; v. 273; p. 700.
Grinding-machine, Cylindrical. B. M. W. Hanson. No. 1,339,027; May 4; v. 274; p. 70.
Grinding machine, Disk-. W. A. Lorenz. No. 1,355,345; Oct. 12; v. 279; p. 345.
Grinding-machine, Internal. W. J. Guild. No. 1,362,850; Dec. 14; v. 281; p. 221.
Grinding machine, Lens-. L. G. Simpson. No. 1,332,074; Feb. 24; v. 271; p. 632.
Grinding machine, Screw-. W. Wendtland. No. 1,328,469; Jan. 20; v. 270; p. 396.
Grinding machine, Toric-lens-. R. H. and R. J. Beck. No. 1,343,492; June 15; v. 275; p. 484.
Grinding-machine, Universal. S. G. Buskard. No. 1,338,355; Apr. 27; v. 273; p. 707.
Grinding machine, Worm-. D. Fitzpatrick. No. 1,340,030; May 11; v. 274; p. 334.
Grinding-machines, Belt-drive for. J. Wilcox, Jr. No. 1,334,339; Mar. 23; v. 272; p. 567.
Grinding-machines, Cross-feed mechanism for. C. H. Norton, A. Turner, and J. S. Wilcox, Jr. No. 1,339,860; May 11; v. 274; p. 302.
Grinding machines, Generating formers for contour-. B. M. W. Hanson. No. 1,341,800; June 1; v. 275; p. 37.
Grinding machines, Lens-blank setter for lens-. W. Phillips. No. 1,332,681; Mar. 2; v. 272; p. 96.
Grinding-machines, Safety-guard for rotary. A. F. Howe. No. 1,351,908; Sept. 7; v. 278; p. 89.
Grinding-machines, Shaft-cooling means for. R. C. Mitchell. No. 1,352,803; Sept. 7; v. 278; p. 118.
Grinding-machines, Work-drive for. J. N. Heald and A. M. Drake. No. 1,361,854; Dec. 14; v. 281; p. 222.
Grinding-machines, Work-table for. E. B. Gardner. No. 1,337,352; Apr. 20; v. 273; p. 447.
Grinding-mill. J. A. Gerwen. No. 1,359,357; Nov. 16; v. 280; p. 526.
Grinding-mill. S. J. and J. S. Mills. No. 1,327,347; Jan. 6; v. 270; p. 87.
Grinding-mill. W. G. Stevenson. No. 1,345,714; July 6; v. 276; p. 76.
Grinding-mill and tumbling comminuting-body therefor. R. C. Newhouse. No. 1,331,964; Feb. 24; v. 271; p. 611.
Grinding-mills, Drive for. R. R. Howell. No. 1,328,834; Jan. 27; v. 270; p. 493.
Grinding, polishing, and buffing machine. H. F. Albright. No. 1,339,312; May 4; v. 274; p. 122.
Grinding, polishing, and buffing machine equipment. F. S. Kochendorfer. No. 1,339,202; May 4; v. 274; p. 102.
Grinding-roll. E. F. Clark. No. 1,360,887; Nov. 30; v. 280; p. 941.
Grinding screw-threaded articles, Attachment for. J. M. Stryhal. No. 1,350,044; Aug. 17; v. 277; p. 497.
Grinding screw-threaded articles, Attachment for. J. M. Stryhal. No. 1,355,710; Oct. 12; v. 279; p. 300.
Grinding-tools, Driving mechanism for. C. W. Heberger. No. 1,353,902; Sept. 28; v. 278; p. 568.
Grinding-wheel-balancing device. T. Larsson. No. 1,352,005; Sept. 7; v. 278; p. 58.
Grinding-wheel dresser. R. P. Place. No. 1,347,519; July 27; v. 276; p. 609.
Grinding-wheel guard and rest, Combined. W. H. Sumbling. No. 1,332,009; Feb. 24; v. 271; p. 620.
Grinding-wheels and similar rotating bodies, Guard for. K. Dellgren. No. 1,335,223; Mar. 30; v. 272; p. 794.
Grinding-wheels, Dressing-tool for. E. T. Gorham. No. 1,339,452; May 11; v. 274; p. 225.
Grinding worms, machine for. W. Cannell. No. 1,346,173; July 13; v. 276; p. 228.
Grip, Hand-. J. R. Vosburgh. No. 1,356,572; Oct. 26; v. 279; p. 557.
Gripper. G. H. Brown. No. 1,334,015; Mar. 16; v. 272; p. 461.
Gripper-actuating mechanism. W. M. Kelly. No. 1,339,654; May 11; v. 274; p. 264.
Gripper, Auxiliary. C. G. Cope. No. 1,350,140; Aug. 17; v. 277; p. 516.
Gripper mechanism. C. F. Pym. No. 1,344,316; June 22; v. 275; p. 712.
Gripping device. J. F. Moody. No. 1,356,458; Oct. 19; v. 279; p. 488.
Gripping device. A. Vanderdonck. No. 1,362,905; Dec. 21; v. 281; p. 479.
Grits-separating machine. J. D. Moore. No. 1,347,114; July 20; v. 276; p. 473.
Grocery-store, Portable automobile. E. E. Moseley. No. 1,333,670; Mar. 16; v. 272; p. 396.
Groceryman's box. F. Dorchek. No. 1,348,552; Aug. 3; v. 277; p. 82.
Gromet. S. Robinson. No. 1,356,404; Oct. 19; v. 279; p. 477.
Gromet or tire-bead and making them. A. C. Pratt. No. 1,334,685; Mar. 23; v. 272; p. 623.
Gromets, Apparatus for making. A. C. Pratt. No. 1,327,170; Jan. 6; v. 270; p. 54.
Gromets, Manufacturing. W. A. Young. No. 1,348,615; Aug. 3; v. 277; p. 94.
Groove-cutting machine. H. E. Van Ness. No. 1,362,202; Dec. 14; v. 281; p. 291.
Grooves, Machine for forming. W. F. Fischer. No. 1,343,554; June 15; v. 275; p. 497.
Grooving-machine. F. M. Furber. No. 1,335,049; Mar. 30; v. 272; p. 762.
Ground-anchor. I. Solberg. No. 1,349,476; Aug. 10; v. 277; p. 314.
Ground, Machine for cultivating unbroken. G. Aaseth. No. 1,353,012; Sept. 14; v. 278; p. 289.
Ground, Spot-. A. C. Horn. No. 1,347,633; July 27; v. 276; p. 632.
Ground-working implement. R. R. Slipp. No. 1,346,266; July 13; v. 276; p. 247.
Grounding device. C. W. Pen Dell. No. 1,342,645; June 8; v. 275; p. 254.
Grubber, Sage-brush. W. N. Vancil. No. 1,331,731; Feb. 24; v. 271; p. 567.
Guard. C. M. Foote. No. 1,350,797; Aug. 24; v. 277; p. 691.
Guard. D. J. Muncy. No. 1,353,811; Sept. 21; v. 278; p. 506.
Guard, Safety-. C. J. Lindstrom. No. 1,354,048; Sept. 28; v. 278; p. 598.
Guide and sign post. L. M. De Witt. No. 1,355,036; Oct. 5; v. 279; p. 116.
Guide-clamp, Adjustable. H. M. Lamb. No. 1,337,921; Apr. 20; v. 273; p. 555.
Guide, Piercing-mill. H. McQuaid. No. 1,362,719; Dec. 21; v. 281; p. 443.
Guideway and sliding member therefor. P. W. Murphy. 1,348,871; Aug. 3; v. 277; p. 48.
Guitars, Nut for. M. Neft. No. 1,338,583; Apr. 27; v. 273; p. 749.
Guitars, Steel for. M. Neft. No. 1,342,718; June 8; v. 275; p. 269.
Gum and mint case. L. W. Buchenau. No. 1,349,263; Aug. 10; v. 277; p. 273.
Gum sheeting and scoring machine. P. H. Watkins. No. 1,357,665; Nov. 2; v. 280; p. 88.
Gumming-machines, Take-off device for. M. Feybusch. No. 1,355,219; Oct. 12; v. 279; p. 206.
Gun. A. S. Baldwin. No. 1,327,897; Jan. 13; v. 270; p. 251.
Gun. H. A. Douglas. No. 1,337,444; Apr. 20; v. 273; p. 464.
Gun. R. H. Keaton. No. 1,335,342; Mar. 30; v. 272; p. 817.
Gun. S. D. Master. No. 1,331,474; Feb. 17; v. 271; p. 498.
Gun. J. Pacifico. No. 1,340,791; May 18; v. 274; p. 535.
Gun. O. V. Payne. No. 1,347,756; July 27; v. 276; p. 658.
Gun. O. V. Payne. No. 1,352,412; Sept. 7; v. 278; p. 133.
Gun. O. V. Payne. No. 1,352,413; Sept. 7; v. 278; p. 133.
Gun. H. F. Rieschick. No. 1,345,551; July 6; v. 276; p. 44.
Gun. J. T. Thompson. No. 1,359,635; Nov. 23; v. 280; p. 626.
Gun. J. T. Thompson. No. 1,363,696; Dec. 28; v. 281; p. 673.
Gun. M. J. Trumble. No. 1,359,295; Nov. 16; v. 280; p. 513.
Gun-aiming apparatus. E. Schneider. No. 1,361,779; Dec. 7; v. 281; p. 159.

Digitized by Google

Alphabetical list of inventions—Continued.

Gun-aiming apparatus. E. Schneider. No. 1,361,781. Dec. 7; v. 281; p. 160.
Gun, Air-. O. Seemuller. No. 1,327,064; Jan. 6; v. 270; p. 35.
Gun and other firearm, Machine-. H. W. Gabbett-Fairfax. No. 1,348,702; Aug. 3; v. 277; p. 111.
Gun, Anti-aircraft. F. Bonall. No. 1,340,111; May 11; v. 274; p. 350.
Gun attachment. O. L. Howe. No. 1,347,509; July 27; v. 276; p. 608.
Gun attachment, Grease-. A. J. Wood. No. 1,337,629; Apr. 20; v. 273; p. 499.
Gun, Automatic. C. G. Blackmore. No. 1,351,017; Aug. 31; v. 277; p. 795.
Gun, Automatic. W. B. Darton. No. 1,335,487; Mar. 30; v. 272; p. 843.
Gun, Automatic. A. G. Hadcock and G. Forster. No. 1,360,523; Nov. 30; v. 280; p. 869.
Gun, Automatic hand-. N. Björgum. No. 1,360,873; Nov. 30; v. 280; p. 938.
Gun-barrel. A. W. Thistlethwaite. No. 1,351,309; Aug. 31; v. 277; p. 853.
Gun-barrel. J. T. Thompson. No. 1,329,444; Feb. 3; v. 271; p. 19.
Gun, Barrel-recoil. A. Schmücking. No. 1,363,925; Dec. 28; v. 281; p. 717.
Gun-barrel-testing device. J. T. Careaga and R. A. Careaga. No. 1,329,366; Feb. 3; v. 271; p. 5.
Gun-barrels, Apparatus for forming. W. F. Cole. No. 1,339,023; May 4; v. 274; p. 69.
Gun-barrels, Transport apparatus for demounting and remounting. E. Schneider. No. 1,345,891; July 6; v. 276; p. 111.
Gun-barrels, Transport apparatus for demounting and remounting. E. Schneider. No. 1,345,892; July 6; v 276; p. 111.
Gun belt, Machine-. V. H. Jennings. No. 1,346,207; July 13; v. 276; p. 235.
Gun belt, Machine-. V. H. Jennings. No. 1,346,208; July 13; v. 276; p. 235.
Gun, Bolt-. T. C. Johnson. No. 1,335,440; Mar. 30; v. 272; p. 834.
Gun, Bolt-action. T. C. Johnson. No. 1,331,154; Feb. 17; v. 271; p. 439.
Gun, Bolt-action. T. C. Johnson. No. 1,355,673; Oct. 12; v. 279; p. 293.
Gun-bolting mechanism. A. P. Curtis. No. 1,348,545; Aug. 3; v. 277; p. 80.
Gun-brake. E. Schneider. No. 346,560; July 13; v. 276; p. 305.
Gun breech-blocks comprising removable firing-tube holder, Safety mechanism for use with. E. Schneider. No. 1,336,093; Apr. 6; v. 273; p. 74.
Gun breech-blocks comprising removable firing-tube holders, Safety mechanism for use with. E. Schneider. No. 1,336,096; Apr. 6; v. 273; p. 74.
Gun-buffer. A. M. Craig. No. 1,356,191; Oct. 19; v. 279; p. 436.
Gun-carriage. P. E. Holt. No. 1,344,897; June 22; v. 275; p. 727.
Gun-carriage. E. F. Norelius. No. 1,327,603; Jan. 6; v. 270; p. 135.
Gun-carriage. E. Rimailho. No. 1,345,245; June 29; v. 275; p. 956.
Gun-carriage. E. Rimailho. No. 1,345,246; June 29; v. 275; p. 956.
Gun-carriage, Caterpillar. E. Rimailho. No. 1,332,067; Feb. 24; v. 271; p. 630.
Gun-carriage, Caterpillar. E. Rimailho. No. 1,334,794; Mar. 23; v. 272; p. 653.
Gun-carriage for use on submarines and similar vessels, Disappearing. E. Schneider. No. 1,334,800; Mar. 23; v. 272; p. 654.
Gun-carriage frame. E. Schneider. No. 1,336,926; Apr. 13; v. 273; p. 292.
Gun-carriage of railway-guns on turntables, Support for the. F. Finckh. No. 1,360,514; Nov. 30; v. 280; p. 868.
Gun-carriage, Single-trail. E. Schneider. No. 1,336,095; Apr. 6; v. 273; p. 74.
Gun-carriage trail for enabling the guns to fire at high angles of elevation. E. Schneider. No. 1,335,462; Mar. 30; v. 272; p. 838.
Gun-carriage, Wheeled. E. Rimailho. No. 1,330,614; Feb. 10; v. 271; p. 268.
Gun-carriage, Wheeled. E. Schneider. No. 1,332,762; Mar. 2; v. 272; p. 112.
Gun-carriage with endless tracks. E. Schneider. No. 1,328,849; Jan. 27; v. 270; p. 496.
Gun-carriages and endless-track trucks, Connecting mechanism between. E. Schneider. No. 1,333,281; Mar. 9; v. 272; p. 261.
Gun-carriages and other vehicles, Removable tire for the wheels of. E. Schneider. No. 1,343,936; June 22; v. 275; p. 638.
Gun-carriages, Elastic suspension for wheeled. E. Schneider. No. 1,347,916; July 27; v. 276; p. 689.
Gun-carriages for the purpose of training the guns, Apparatus for shifting trail. E. Schneider. No. 1,326,975; Jan. 6; v. 270; p. 18.
Gun cartridge-belts, Machine for loading machine-. R. Krenz. No. 1,339,204; May 4; v. 274; p. 103.
Gun, Centrifugal. F. R. Barnes. No. 1,327,518; Jan. 6; v. 270; p. 119.
Gun, Centrifugal. W. W. Case. No. 1,357,028; Oct. 26; v. 279; p. 646.
Gun, Centrifugal machine-. E. T. Moore. No. 1,332,992; Mar. 9; v. 272; p. 208.
Gun-cleaner. F. P. Sullivan. No. 1,337,104; Apr. 13; v. 273; p. 326.
Gun, Concrete-. W. F. Webb. No. 1,362,767; Dec. 21; v. 281; p. 453.
Gun construction. O. V. Payne. No. 1,361,401; Dec. 7; v. 281; p. 84.
Gun-control. S. M. Thompson. No. 1,342,475; June 8; v. 275; p. 221.
Gun-control system, Machine-. F. J. Martel, C. A. Briggs, D. L. Macaulay, W. R. Wright, and F. Wenner. No. 1,349,140; Aug. 10; v. 277; p. 248.
Gun element. O. V. Payne. No. 1,358,104; Nov. 9; v. 280; p. 234.
Gun-fire-control system. E. A. Sperry. No. 1,356,505; Oct. 19; v. 279; p. 496.
Gun-fire mechanism. M. Birkigt. No. 1,328,811; Jan. 27; v. 270; p. 488.
Gun, Firecracker-. M. J. Ufford. No. 1,327,747; Jan. 13; v. 270; p. 224.
Gun, Flash-. R. C. Pierce. No. 1,337,566; Apr. 20; v. 273; p. 487.
Gun for accompanying attacking troops. E. Schneider. No. 1,346,561; July 13; v. 276; p. 306.
Gun for accompanying attacking troops. E. Schneider No. 1,346,562; July 13; v. 276; p. 306.
Gun for discharging bombs, shells, &c. T. and J. E. Thornycroft. No. 1,328,021; Jan. 13; v. 270; p. 275.
Gun for discharging projectiles by gases supplied thereto under pressure. T. and J. E. Thornycroft. No. 1,340,689; May 18; v. 274; p. 517.
Gun, Grease-. H. M. Boe. No. 1,339,916; May 11; v. 274; p. 313.
Gun, Grease-. E. R. Hentig. No. 1,329,662; Feb. 3; v. 271; p. 59.
Gun, Grease-. J. G. MacGregor. No. 1,340,726; May 18; v. 274; p. 523.
Gun, Grease-. C. R. Miller. (Reissue.) No. 14,819; Mar. 16; v. 272; p. 508.
Gun, Grease-. S. L. O'Brien. No. 1,341,148; May 25; v. 274; p. 675.
Gun, Grease-. H. S. Stansbury. No. 1,330,728; Feb. 10; v. 271; p. 290.
Gun indicator, Magazine-. C. H. Veeder. No. 1,332,936; Mar. 9; v. 272; p. 196.
Gun laying and firing and fuse-timing. Angle-indicator for use in. F. A. Hanks. No. 1,363,866; Dec. 28; v. 281; p. 706.
Gun, Line-carrying. H. B. Hills. No. 1,332,838; Mar. 2; v. 272; p. 31.
Gun, Liquid-. C. F. Lefever. No. 1,363,475; Dec. 28; v. 281; p. 630.
Gun lubrication. H. H. Cummings. 1,351,626; Aug. 31; v. 277; p. 916.
Gun lubrication. O. B. Graham. No. 1,351,164; Aug. 31; v. 277; p. 823.
Gun, Machine-. A. T. Dawson and G. T. Buckham. No. 1,327,086; Jan. 6; v. 270; p. 39.
Gun, Machine-. V. V. Dibovsky. No. 1,362,479; Dec. 14; v. 281; p. 344.
Gun, Machine-. G. Haselton. No. 1,339,390; May 11; v. 274; p. 212.
Gun, Machine-. J. S. Johnston. No. 1,328,230; Jan. 13; v. 270; p. 315.
Gun, Machine-. J. S. Johnston. No. 1,335,839; Apr. 6; v. 273; p. 25.
Gun, Machine-. J. F. O'Malley. No. 1,329,922; Feb. 3; v. 271; p. 108.
Gun, Machine-. L. J. Patrick. No. 1,347,753; July 27; v. 276; p. 657.
Gun, Machine-. B. Putnam. No. 1,334,052; Mar. 16; v. 272; p. 468.
Gun, Machine-. O. O. Storle. No. 1,342,358; June 1; v. 275; p. 145.
Gun, Machine, anti-aircraft, and other. J. J. B. Arter. No. 1,334,983; Mar. 30; v. 272; p. 749.
Gun-magazine. O. V. Payne. No. 1,358,105; Nov. 9; v. 280; p. 235.
Gun, Mechanical. B. L. Worthen. No. 1,331,450; Feb. 17; v. 271; p. 493.
Gun mechanism. O. V. Payne. No. 1,363,613; Dec. 28; v. 281; p. 657.
Gun, Motor-operated. D. J. Smith, Jr. No. 1,352,319; Sept. 7; v. 278; p. 116.
Gun-mount. W. A. Ross. No. 1,333,448; Mar. 9; v. 272; p. 292.
Gun-mount. M. L. Johnston. No. 1,337,359; Apr. 20; v. 273; p. 448.
Gun-mount. H. M. Rockwell. No. 1,337,327; Apr. 20; v. 273; p. 443.
Gun-mount for boats. W. B. Shearer. No. 1,353,499; Sept. 21; v. 278; p. 444.
Gun mounted on wheeled carriages. E. Schneider. No. 1,358,656; Nov. 9; v. 280; p. 345.
Gun mounted on wheeled carriages. E. Schneider. No. 1,358,657; Nov. 9; v. 280; p. 345.

Digitized by Google

Gun mounted on wheeled carriages. E. Schneider. No. 1,358,658; Nov. 9; v. 280; p. 345.
Gun-mounting. D. Ardouin. No. 1,330,776; Feb. 17; v. 271; p. 367.
Gun-mounting. A. T. Dawson and G. T. Buckham. No. 1,327,084; Jan. 6; v. 270; p. 39.
Gun-mounting. A. T. Dawson and G. T. Buckham. No. 1,327,085; Jan. 6; v. 270; p. 39.
Gun-mounting. A. T. Dawson and G. T. Buckham. No. 1,352,791; Sept. 14; v. 278; p. 246.
Gun, Mud-. H. Kennedy. No. 1,332,298; Mar. 2; v. 272; p. 24.
Gun positions, Locating enemy-. E. A. Fessenden. No. 1,341,795; June 1; v. 275; p. 36.
Gun, Powder-. J. H. Lemone. No. 1,330,763; Feb. 10; v. 271; p. 296.
Gun, Rapid-fire. C. W. Lang. No. 1,329,979; Feb. 3; v. 271; p. 118.
Gun, Rapid-fire. C. W. Lang. No. 1,333,498; Mar. 9; v. 272; p. 302.
Gun, Rapid-fire. C. W. Lang. No. 1,359,608; Nov. 23; v. 280; p. 621.
Gun, Rapid-fire. V. U. D. Pierce. No. 1,353,267; Sept. 21; v. 278; p. 396.
Gun, Rapid-fire. W. F. Watkins. No. 1,337,971; Apr. 20; v. 273; p. 565.
Gun, Recoil-operated. A. Adelman and H. J. Stambaugh. No. 1,359,454; Nov. 16; v. 280; p. 545.
Gun rig, Rivet-. W. E. Ashe and F. C. Bevins. No. 1,336,121; Apr. 6; v. 273; p. 79.
Gun, Self-filling grease-. K. E. Lyman. No. 1,338,743; May 4; v. 274; p. 18.
Gun-sight. D. M. Barringer. No. 1,363,559; Dec. 28; v. 281; p. 645.
Gun-sights. E. E. Gregory. No. 1,350,153; Aug. 17; v. 277; p. 518.
Gun-sights. C. Skopal. No. 1,336,165; Apr. 6; v. 273; p. 87.
Gun-sight. F. A. Williams. No. 1,340,996; May 25; v. 274; p. 646.
Gun-sighting device. A. T. Dawson and G. T. Buckham. No. 1,346,303; July 13; v. 276; p. 255.
Gun-sighting device. E. Schneider. No. 1,361,780; Dec. 7; v. 281; p. 160.
Gun-sling. H. S. Wagner. No. 1,332,068; Feb. 24; v. 271; p. 635.
Gun, Spray-. F. H. Crummey. No. 1,328,721; Jan. 20; v. 270; p. 443.
Gun, Spray-. A. B. Hull. No. 1,343,780; June 15; v. 275; p. 542.
Gun-stocks, Resilient recoil-pad for. L. F. Kennedy. No. 1,328,924; Jan. 27; v. 270; p. 511.
Gun structure. H. J. Stambaugh and G. M. McCamm. No. 1,358,343; Nov. 9; v. 280; p. 282.
Gun, Submarine. K. Dougan. No. 1,349,414; Aug. 10; v. 277; p. 362.
Gun-supporting platform. E. Schneider. No. 1,340,415; May 18; v. 274; p. 465.
Gun, Trap-. A. Crockett. No. 1,348,543; Aug. 3; v. 277; p. 80.
Gun, Trap-. G. H. Thompson. No. 1,343,066; June 8; v. 275; p. 338.
Gun-trap, Animal. F. E. Davenport. No. 1,347,255; July 20; v. 276; p. 501.
Gun-trigger, Safety. W. H. Herren. No. 1,360,950; Nov. 30; v. 280; p. 952.
Gun tripod, Machine-. S. C. Stanley. No. 1,335,403; Mar. 30; v. 272; p. 828.
Gun-wad. W. G. Bond. No. 1,358,279; Nov. 9; v. 280; p. 269.
Gun with railway gun-carriage. F. Finckh. No. 1,360,512; Nov. 30; v. 280; p. 867.
Gun with railway gun-carriage. R. Lorenz. No. 1,360,549; Nov. 30; v. 280; p. 875.
Gun with railway gun-carriage. R. Lorenz. No. 1,360,550; Nov. 30; v. 280; p. 875.
Guns, Adjustable front sight for. E. J. D. Newitt. No. 1,361,768; Dec. 7; v. 281; p. 158.
Guns, Aiming apparatus for. E. Schneider. No. 1,336,094; Apr. 6; v. 273; p. 74.
Guns, Apparatus for aiming. E. Schneider. No. 1,334,680; Mar. 23; v. 272; p. 631.
Guns, Apparatus for diminishing the recoil of. E. Schneider. No. 1,362,058; Dec. 21; v. 281; p. 509.
Guns, Apparatus for loading. E. Schneider. No. 1,332,763; Mar. 2; v. 272; p. 113.
Guns, Apparatus for regulating the firing of. J. L. Routin. No. 1,345,702; July 6; v. 276; p. 73.
Guns, Apparatus for the automatic regulation of the hydraulic brakes of. E. Schneider. No. 1,333,282; Mar. 9; v. 272; p. 261.
Guns, Apparatus for varying the recoil of. E. Schneider. No. 1,335,463; Mar. 30; v. 272; p. 838.
Guns, Arrangement of rails for railway-. P. Krüger. No. 1,361,472; Dec. 7; v. 281; p. 109.
Guns, Arrangement of track for railway-. R. Hartwig. No. 1,361,480; Dec. 7; v. 281; p. 97.
Guns, Combined apparatus, comprising a recoil-brake, recuperator, and running-out moderator for. E. Schneider. No. 1,333,280; Mar. 9; v. 272; p. 261.
Guns, Construction of links for ammunition-belts for machine-. W. de C. Prideaux. No. 1,343,060; June 8; v. 275; p. 337.
Guns, Controlling. J. B. Henderson. No. 1,327,204; Jan. 6; v. 270; p. 61.
Guns during the loading operations, Apparatus for preventing the entrance of enemy projectiles into the muzzles of. E. Schneider. No. 1,334,801; Mar. 23; v. 272; p. 654.
Guns, Electric sight-controlling mechanism for anti-aircraft. R. V. Morse. No. 1,343,003; June 8; v. 275; p. 326.
Guns, Filler for compression grease-. W. C. Iftiger. No. 1,330,589; Feb. 10; v. 271; p. 255.
Guns, Firing of. G. Hazelton. No. 1,363,971; Dec. 28; v. 281; p. 726.
Guns firing from railway-tracks, Carriage of large-caliber. E. Schneider. No. 1,349,533; Aug. 10; v. 277; p. 326.
Guns, Flash-absorber for machine-. E. P. Woken. No. 1,339,614; May 11; v. 274; p. 256.
Guns, Grinding apparatus specially applicable for grinding the interior of the A-tubes of. J. W. Barnes. No. 1,336,014; Apr. 6; v. 273; p. 59.
Guns, Hydraulic brake for. E. Schneider. No. 1,333,283; Mar. 9; v. 272; p. 261.
Guns, Lever-arm for. C. F. Lefever. No. 1,358,959; Nov. 16; v. 280; p. 450.
Guns, Light attachment for. J. D. McLeod. No. 1,330,685; Feb. 17; v. 271; p. 388.
Guns, Machine for filling feed-belts for machine-. J. M. Browning. No. 1,327,698; Jan. 13; v. 270; p. 214.
Guns, Magazine or cartridge feeding device for automatic machine-. A. H. Fox and W. J. Rice. No. 1,335,677; Mar. 30; v. 272; p. 879.
Guns, Mount or stand for machine-. G. Norman. No. 1,339,410; May 11; v. 274; p. 216.
Guns mounted on wheeled gun-carriages, Apparatus for training. E. Schneider. No. 1,341,385; May 25; v. 274; p. 721.
Guns mounted on wheeled gun-carriages, Apparatus for training. E. Schneider. No. 1,341,386; May 25; v. 274; p. 721.
Guns, Mounting for heavy. D. G. Saunders, Jr. No. 1,357,478; Nov. 2; v. 280; p. 52.
Guns, Mounting for heavy. D. G. Saunders, Jr. No. 1,357,479; Nov. 2; v. 280; p. 52.
Guns on armored cars and for other purposes, Aiming apparatus for. E. Schneider. No. 1,363,350; Dec. 28; v. 281; p. 607.
Guns, Rear sight for. E. M. W. Kaempfer. No. 1,357,096; Oct. 26; v. 279; p. 659.
Guns, Sighting apparatus for anti-aircraft. A. T. Dawson and G. T. Buckham. No. 1,360,750; Nov. 30; v. 280; p. 910.
Guns, Trigger for double-barrel. D. W. Strickland. No. 1,339,867; May 11; v. 274; p. 304.
Guns, &c., Tripod for mounting. E. C. Messersmith. No. 1,331,116; Feb. 17; v. 271; p. 432.
Guns, Turntable for railway-. F. Finckh. No. 1,359,977; Nov. 23; v. 280; p. 694.
Guns, Turntable for railway-. F. Finckh. No. 1,360,513; Nov. 30; v. 280; p. 868.
Guns with wheeled gun-carriages, Foundation for. A. Kästner. No. 1,359,997; Nov. 23; v. 280; p. 698.
Gunnery-training apparatus. G. Giangiope. No. 1,354,182; Sept. 28; v. 278; p. 625.
Gyratory crusher. R. Bernhard. No. 1,336,015; Apr. 6; v. 273; p. 59.
Gyro-compass. S. G. Brown. No. 1,362,842; Dec. 21; v. 281; p. 467.
Gyroscope. E. Cowles. No. 1,359,333; Nov. 16; v. 280; p. 522.
Gyroscope, Stabilizing-. E. A. Sperry. No. 1,358,258; Nov. 9; v. 280; p. 264.
Gyroscope, Steering-. M. L. Patterson. No. 1,332,362; Mar. 2; v. 272; p. 24.
Gyroscopic navigational apparatus. H. L. Tanner. No. 1,343,188; June 8; v. 275; p. 362.
Hacksaw-blade. B. L. Calkins. No. 1,328,982; Jan. 27; v. 270; p. 522.
Hacksaw-machine, Power. A. Rasmussen. No. 1,334,166; Mar. 16; v. 272; p. 489.
Hacksaw, Portable rail-. W. C. Reinhardt and O. H. Banker. No. 1,336,443; Apr. 13; v. 273; p. 199.
Hair and scalp remedy. J. G. Roman. No. 1,350,843; Aug. 24; v. 277; p. 699.
Hair-clipper. E. S. Carlsen. No. 1,342,096; June 1; v. 275; p. 95.
Hair-clipper. E. S. Carlsen. No. 1,342,097; June 1; v. 275; p. 95.
Hair-clipper. J. D. Cox. No. 1,357,444; Nov. 2; v. 280; p. 46.
Hair-clipper. S. P. Jones and D. P. Wallace. No. 1,356,866; Oct. 26; v. 279; p. 615.
Hair-clipper. G. A. Lafontaine. No. 1,343,175; June 8; v. 275; p. 359.
Hair-clipper. S. M. Miller. No. 1,348,293; Aug. 3; v. 277; p. 22.
Hair-clipper. V. Nicosia. No. 1,351,924; Sept. 7; v. 278; p. 43.
Hair-clipper. G. Ortgier. No. 1,360,570; Nov. 30; v. 280; p. 879.

Digitized by Google

Alphabetical list of inventions—Continued.

Hair-clipper. M. L. Riggs. No. 1,354,458; Sept. 28; v. 278; p. 680.
Hair-clipper, Convertible. J. N. Johnson. No. 1,351,041; Aug. 31; v. 277; p. 800.
Hair-clipper, Motor-driven. D. N. Swatsell. No. 1,352,326; Sept. 7; v. 278; p. 118.
Hair-clipper, Motor-driven. H. Van Bree. No. 1,357,364; Nov. 2; v. 280; p. 31.
Hair-clipper, Power-driven. C. O. Connor. No. 1,350,005; Aug. 17; v. 277; p. 490.
Hair-clippers, Manually-operated. J. N. Johnson. No. 1,354,306; Sept. 28; v. 278; p. 650.
Hair-clipping attachment for vibrators. A. Niland. No. 1,329,675; Feb. 3; v. 271; p. 61.
Hair-clipping device. G. Stocking. No. 1,336,662; Apr. 13; v. 273; p. 240.
Hair-comb. J. S. Stewart. No. 1,354,143; Sept. 28; v. 278; p. 617.
Hair-curler. O. W. Brenizer. No. 1,352,871; Sept. 14; v. 278; p. 262.
Hair-curler. C. L. Fitch. No. 1,338,687; May 4; v. 274; p. 7.
Hair-curler. H. H. Klein. No. 1,356,531; Oct. 26; v. 279; p. 549.
Hair-curler. A. V. P. Martin. No. 1,354,117; Sept. 28; v. 278; p. 612.
Hair-curler. J. Morenilla. No. 1,363,147; Dec. 21; v. 281; p. 527.
Hair-curler. H. Radzinsky. No. 1,338,748; May 4; v. 274; p. 19.
Hair-curler. J. Ralph. No. 1,357,516; Nov. 2; v. 280; p. 59.
Hair-curler. H. Steinacher. No. 1,346,920; July 20; v. 276; p. 435.
Hair-curler. I. W. Strahan. No. 1,328,771; Jan. 20; v. 270; p. 452.
Hair-curlers, Machine for forming. M. J. Peppard. No. 1,332,679; Mar. 2; v. 272; p. 96.
Hair-curling device. F. C. Andresen. No. 1,335,313; Mar. 30; v. 272; p. 811.
Hair-curling device. R. K. Maker. No. 1,338,388; Apr. 27; v. 273; p. 713.
Hair-cutter. L. J. Bergendahl. No. 1,337,429; Apr. 20; v. 273; p. 461.
Hair-cutter. W. A. James. No. 1,353,243; Sept. 21; v. 278; p. 393.
Hair-cutter. A. Pfeifer. No. 1,337,263; Apr. 20; v. 273; p. 480.
Hair-cutter and safety-razor, Combination. J. H. Hasson. No. 1,358,442; Nov. 9; v. 280; p. 303.
Hair-cutting and neck-shaving device. C. J. Manley. No. 1,349,004; Aug. 10; v. 277; p. 221.
Hair-cutting apparatus. R. A. Jacquat. No. 1,333,815; Mar. 9; v. 272; p. 268.
Hair-cutting appliance. S. Severson. No. 1,331,218; Feb. 17; v. 271; p. 450.
Hair-cutting chair, Child's. W. F. Koken. No. 1,324,088; Mar. 16; v. 272; p. 465.
Hair-cutting device. T. A. Maxwell. No. 1,353,173; Sept. 21; v. 278; p. 380.
Hair-cutting device. D. E. Smith. No. 1,329,237; Feb. 3; v. 271; p. 17.
Hair-cutting device. T. Yeomans. No. 1,332,587; Mar. 2; v. 272; p. 79.
Hair-cutting machine. J. G. Beshara. No. 1,359,020; Nov. 16; v. 280; p. 461.
Hair-cutting machine, Automatic. S. M. Coffman. No. 1,359,031; Nov. 16; v. 280; p. 463.
Hair-dressing attachment. V. Krasmauskis. No. 1,351,427; Aug. 31; v. 277; p. 876.
Hair-dressing, Binder for. R. J. Duffie. No. 1,360,100; Nov. 23; v. 280; p. 718.
Hair-dressing device. H. Brinkhaus. No. 1,327,980; Jan. 13; v. 270; p. 267.
Hair-dressing device. W. C. Chapman. No. 1,362,780; Dec. 21; v. 281; p. 456.
Hair drying and straightening comb. O. D. Howard and H. W. Keep. No. 1,349,425; Aug. 10; v. 277; p. 304.
Hair-drying comb. U. Kornstein. No. 1,329,301; Jan. 27; v. 270; p. 581.
Hair-drying device, Electric. S. M. Coffman. No. 1,352,876; Sept. 14; v. 278; p. 263.
Hair fabric, Curled-. E. C. Farr. No. 1,334,744; Mar. 23; v. 272; p. 643.
Hair foundation. R. and G. Scheanblum. No. 1,347,915; July 27; v. 276; p. 689.
Hair-fringe. M. Muller. No. 1,346,718; July 13; v. 276; p. 336.
Hair insole. J. T. Story. No. 1,351,726; Aug. 31; v. 277; p. 934.
Hair, Metal. W. H. Underwood. No. 1,355,368; Oct. 12; v. 279; p. 235.
Hair on the head, Apparatus for treatment of loss of. J. Krauer. No. 1,343,512; June 15; v. 275; p. 488.
Hair or similar fibrous material, Curling. T. Gordon. No. 1,353,337; Sept. 21; v. 278; p. 412.
Hair-plane and safety-razor. E. A. Zimmerman. No. 1,342,494; June 8; v. 275; p. 225.
Hair, Power-driven implement for cutting. W. G. Shelton. No. 1,361,916; Dec. 14; v. 281; p. 234.
Hair, Process of and appliances for curling. A. Pausser. No. 1,340,738; May 18; v. 274; p. 525.
Hair-retaining device. B. E. Beadle. No. 1,363,063; Dec. 21; v. 281; p. 504.
Hair-slides, Safety-fastening for. L. P. Bour. No. 1,354,236; Sept. 28; v. 278; p. 636.
Hair-support. B. E. Beadle. No. 1,347,987; July 27; v. 276; p. 703.
Hair-support. R. and G. Scheanblum. No. 1,357,349; Nov. 2; v. 280; p. 29.
Hair, Treating. H. R. Anders. No. 1,331,609; Feb. 24; v. 271; p. 544.
Hair-trimmer. W. A. James. No. 1,338,597; Apr. 27; v. 273; p. 735.
Hair-trimmer and comb therefor. M. L. Brandt. No. 1,359,666; Nov. 23; v. 280; p. 632.
Hair-trimming gage. F. G. Ford. No. 1,355,938; Oct. 5; v. 279; p. 117.
Hair-waver. F. A. Alberghini. No. 1,360,861; Nov. 30; v. 280; p. 936.
Hair-waver. C. O. Ellert. No. 1,349,609; Aug. 17; v. 277; p. 414.
Hair-waver. H. Natkiel and I. Fraedman. No. 1,353,761; Sept. 21; v. 278; p. 500.
Hair-waver. A. and F. I. Nix. No. 1,363,611; Dec. 28; v. 281; p. 656.
Hair-waver. B. A. Sterling. No. 1,347,830; July 27; v. 276; p. 672.
Hair waver or curler. F. and G. Lantieri. No. 1,352,976; Sept. 14; v. 278; p. 282.
Hair-waving. M. Muller. No. 1,354,414; Sept. 28; v. 278; p. 672.
Hair-waving comb. H. and H. Jacobs. No. 1,360,643; Nov. 30; v. 280; p. 893.
Hair-waving device. M. J. Cully. No. 1,329,378; Feb. 3; v. 271; p. 7.
Hair-waving device. R. Olsen. No. 1,356,172; Nov. 9; v. 280; p. 248.
Hair-waving device, Permanent-. W. Schinyl. No. 1,334,719; Mar. 23; v. 272; p. 688.
Hairpin. R. S. Berry and W. H. McGee. No. 1,360,614; Nov. 30; v. 280; p. 888.
Hairpin. J. E. Browne. No. 1,360,494; Nov. 30; v. 280; p. 864.
Hairpin. G. H. Bruder. No. 1,337,939; Apr. 13; v. 273; p. 814.
Hairpin. E. B. Dewey. No. 1,364,957; Dec. 28; v. 281; p. 742.
Hairpin. C. A. Dies. No. 1,353,139; Nov. 9; v. 280; p. 241.
Hairpin. I. Hayman. No. 1,341,980; June 1; v. 275; p. 72.
Hairpin. L. H. Krickel. No. 1,353,350; Sept. 21; v. 278; p. 414.
Hairpin. M. Liebers. No. 1,342,822; June 8; v. 275; p. 290.
Hairpin. I. Maisano. No. 1,357,333; Nov. 2; v. 280; p. 26.
Hairpin. C. R. Nalle. No. 1,347,707; July 27; v. 276; p. 647.
Hairpin. K. J. E. Nyberg. No. 1,358,190; Nov. 9; v. 280; p. 234.
Hairpin. C. Schulze and L. H. Krickel. No. 1,362,824; Dec. 21; v. 281; p. 469.
Hairpin. E. H. Smalley. No. 1,362,827; Dec. 21; v. 281; p. 465.
Hairpin. E. L. Smith. No. 1,353,079; Sept. 14; v. 278; p. 302.
Hairpin. R. M. Wilson. No. 1,337,377; Apr. 20; v. 273; p. 452.
Hairpin, Automatically-locking. B. Carlisle. No. 1,357,271; Nov. 2; v. 280; p. 14.
Hairpin, Self-adjusting. J. W. Greenbowe. No. 1,330,802; Feb. 17; v. 271; p. 372.
Hairpins, Machine for counting and arranging. S. H. Goldberg. No. 1,326,925; Jan. 6; v. 270; p. 8.
Hairpins, Machine for making. A. J. Lewis. No. 1,360,234; Nov. 23; v. 280; p. 744.
Half-soles, Pattern for cutting. W. W. Gilbert. No. 1,339,702; May 11; v. 274; p. 278.
Half-spray sprinkler. V. A. H. Kahler. No. 1,330,349; May 4; v. 274; p. 129.
Hall utensil. A. Zycki. No. 1,348,619; Aug. 3; v. 277; p. 95.
Halter. P. W. Jensen. No. 1,340,271; May 18; v. 274; p. 437.
Halter. J. Stansbie. No. 1,352,557; Sept. 14; v. 278; p. 198.
Halter-releasing device, Animal-. E. N. Ward. No. 1,357,133; Oct. 26; v. 279; p. 667.
Ham-hook. M. Falstenhammer. No. 1,360,103; Nov. 23; v. 280; p. 719.
Ham-hook. M. Falstenhammer. No. 1,360,104; Nov. 23; v. 280; p. 719.
Ham shaper and binder. A. M. Demuth. No. 1,358,063; Nov. 9; v. 280; p. 227.
Hame and trace connector. C. A. Mikkin. No. 1,339,777; May 11; v. 274; p. 287.
Hame-fastener. T. J. Arnold. No. 1,357,923; Nov. 2; v. 280; p. 138.
Hame-fastening. J. M. Walsh. No. 1,358,348; Nov. 9; v. 280; p. 283.
Hammer. T. S. Hose. No. 1,362,797; Dec. 21; v. 281; p. 459.

Digitized by Google

Hammer. W. H. Saunders. No. 1,363,357; Dec. 28; v. 281; p. 607.
Hammer. H. E. Small. No. 1,335,615; Mar. 30; v. 272; p. 867.
Hammer and drilling-machine combined, Electric power-. W. S. Payne. No. 1,356,556; Oct. 26; v. 279; p. 554.
Hammer, Atmospheric or power. J. Slee. No. 1,363,021; Dec. 21; v. 281; p. 502.
Hammer attachment, Steam-. M. E. Tibbels. No. 1,330,922; Feb. 17; v. 271; p. 395.
Hammer, Automatic nailing-. J. Crumpacker. No 1,348,544; Aug. 3; v. 277; p. 80.
Hammer, Board drop-. A. B. Gardella. No. 1,363,465; Dec. 28; v. 281; p. 627.
Hammer, Carpenter's. V. P. Budnik. No. 1,331,619; Feb. 24; v. 546.
Hammer, Carpenter's hand-. S. S. Vaughan. No. 1,356,673; Oct. 26; v. 279; p. 577.
Hammer, Drop-. J. F. Cox. No. 1,356,908; Oct. 26; v. 279; p. 623.
Hammer, Drop-. W. A. Knapp. No. 1,327,331; Jan. 6; v. 270; p. 84.
Hammer, Drop-. P. E. Lane. No. 1,337,520; Apr. 20; v. 273; p. 479.
Hammer, Drop-. H. Terhune. No. 1,348,969; Aug. 10; v. 277; p. 214.
Hammer, Drop-. A. Zawada. No. 1,337,379; Apr. 20; v. 273; p. 452.
Hammer, Electric-power. R. F. Cianfroné. No. 1,357,613; Nov. 2; v. 280; p. 78.
Hammer-guide, Adjustable. S. Paul. No. 1,352,621; Sept. 14; v. 278; p. 211.
Hammer, Magazine-. R. A. Beatty. No. 1,331,228; Feb. 17; v. 271; p. 452.
Hammer, Magazine-. C. J. Pope. No. 1,344,715; June 29; v. 275; p. 855.
Hammer, Mechanical or power-actuated. W. Blacker. No. 1,349,939; Aug. 17; v. 277; p. 477.
Hammer, Motor-operated rotary. R. E. Covert. No. 1,341,545; May 25; v. 274; p. 752.
Hammer, Pneumatic. J. Bernhard and A. Meister. No. 1,346,166; July 13; v. 276; p. 227.
Hammer, Pneumatic riveting-. J. A. Dailey. No. 1,360,897; Nov. 30; v. 280; p. 942.
Hammer, Pneumatic riveting-. J. H. Way. No. 1,340,196; May 18; v. 274; p. 423.
Hammer, Power-. J. W. Flower. No. 1,330,857; Feb. 17; v. 271; p. 382.
Hammer, Power-. A. Klingback. No. 1,353,847; Sept. 21; v. 278; p. 414.
Hammer, Power-. A. T. Lochner. No. 1,356,297; Oct. 19; v. 279; p. 457.
Hammer, Rotary. H. M. Plaisted. (Reissue.) No. 14,865; May 25; v. 274; p. 768.
Hammer, Rotary. H. M. Plaisted. (Reissue.) No. 14,926; July 27; v. 276; p. 735.
Hammer, Trip-. A. Vincent. No. 1,342,782; June 8; v. 275; p. 282.
Hammer, Vacuum pneumatic. J. C. Campbell. No. 1,342,984; June 8; v. 275; p. 322.
Hammers, Lubricating device for riveting-. J. Autorino. No. 1,343,104; June 8; v. 275; p. 346.
Hammers, Staybolt-heading attachment for pneumatic-. E. O. Grimes, Jr., and F. Baltsley. No. 1,339,453; May 11; v. 274; p. 225.
Hammock. M. Demlinger. No. 1,330,688; Feb. 10; v. 271; p. 282.
Hammock, Couch-. G. F. Sisbower and L. E. Pittoni. No. 1,346,689; July 13; v. 276; p. 330.
Hammock or bed construction. A. B. Claflin. No. 1,340,015; May 11; v. 274; p. 331.
Hammock-supporting means. B. B. Englander. No. 1,357,282; Nov. 2; v. 280; p. 16.
Hammock suspension. L. E. Pittoni. No. 1,355,356; Oct. 12; v. 279; p. 233.
Hammock, Water-. E. Underwood. No. 1,329,687; Feb. 3; v. 271; p. 64.
Hamper construction. A. Walden. No. 1,327,362; Jan. 6; v. 270; p. 90.
Hand and arm, Artificial. L. G. Caron. No. 1,332,485; Mar. 2; v. 272; p. 59.
Hand and arm protector. E. H. White. No. 1,360,840; Nov. 30; v. 280; p. 932.
Hand, Artificial. R. F. Armstrong. No. 1,334,689; Mar. 23; v. 272; p. 682.
Hand, Artificial. F. C. Beck. No. 1,347,004; July 20; v. 276; p. 452.
Hand, Artificial. D. Hirsch. No. 1,362,798; Dec. 21; v. 281; p. 458.
Hand, Artificial. G. A. Shirer. No. 1,344,357; June 22; v. 275; p. 720.
Hand, Artificial. R. Tautman. No. 1,362,156; Dec. 14; v. 281; p. 282.
Hand-brake. W. A. Geiger. No. 1,361,455; Dec. 7; v. 281; p. 96.
Hand-brake. J. F. O'Connor. No. 1,344,309; June 22; v. 275; p. 710.
Hand-brake. J. F. O'Connor. No. 1,361,481; Dec. 7; v. 281; p. 101.
Hand-brake. W. F. Richards. No. 1,343,061; June 8; v. 275; p. 337.
Hand-brake. W. H. Sauvage. No. 1,330,140; Feb. 10; v. 271; p. 180.
Hand-brake. W. H. Sauvage. No. 1,343,005; June 8; v. 275; p. 327.
Hand-brake. W. H. Sauvage. No. 1,343,006; June 8; v. 275; p. 327.
Hand-brake. W. H. Sauvage. No. 1,343,007; June 8; v. 275; p. 327.
Hand-brake. W. H. Sauvage. No. 1,343,008; June 8; v. 275; p. 327.
Hand-brake. W. H. Sauvage. No. 1,343,009; June 8; v. 275; p. 327.
Hand-brake. H. A. Wahlert. No. 1,343,697; June 15; v. 275; p. 526.
Hand clamp and drill outfit. G. Dingman. No. 1,337,205; Apr. 20; v. 273; p. 419.
Hand-covering. J. N. Reynolds. No. 1,346,683; July 13; v. 276; p. 329.
Hand-covering, Reversible. C. M. Putnam. No. 1,351,685; Aug. 31; v. 277; p. 927.
Hand-drill. R. E. Beaubien. No. 1,362,582; Dec. 14; v. 281; p. 364.
Hand-generator. K. K. Krag-Möller. No. 1,333,119; Mar. 9; v. 272; p. 281.
Hand guard and grip. H. C. Bunnell. No. 1,333,782; Mar. 16; v. 272; p. 418.
Hand-hole cover. W. W. Holland and F. J. Gainer. No. 1,339,340; May 4; v. 274; p. 127.
Hand-machine suspender, Pneumatic and other power. T. Malcolm. No. 1,332,051; Feb. 24; v. 271; p. 628.
Hand-warmer. E. W. Overton. No. 1,333,872; Mar. 16; v. 272; p. 433.
Hand-wheel. H. W. Dover. No. 1,331,326; Feb. 17; v. 271; p. 470.
Hand-wheel. H. W. Dover. No. 1,331,327; Feb. 17; v. 271; p. 470.
Hands, Operating mechanism for artificial. A. Pringle and T. S. Kirk. No. 1,338,155; Apr. 27; v. 273; p. 668.
Handbag. S. Matsusaki. No. 1,362,884; Dec. 21; v. 281; p. 475.
Handbag. S. Nover. No. 1,333,672; Mar. 16; v. 272; p. 396.
Handbag. H. B. Rowan. No. 1,354,579; Oct. 5; v. 279; p. 26.
Handbag-handle. N. Sloane. No. 1,342,301; June 1; v. 275; p. 135.
Handbag, valise, &c. L. Abramson. No. 1,341,099; May 25; v. 274; p. 666.
Handcuff. P. Kruger. No. 1,342,334; June 1; v. 275; p. 141.
Handkerchief. M. R. Quinn. No. 1,327,062; Jan. 6; v. 270; p. 35.
Handkerchief-container, Sanitary. M. H. V. Otwell. No. 1,344,927; June 29; v. 275; p. 896.
Handle: *See*—
Automobile-door handle.
Bag-handle.
Battery-box handle.
Bottle-handle.
Brake-valve handle.
Brush-handle.
Can-handle.
Casket-handle.
Crank-handle.
Cutlery-handle.
Detachable handle.
Door-handle.
File-handle.
Foundry-flask handle.
Handbag-handle.
Implement-handle.
Knife-handle.
Milk-bottle handle.
Phonograph winding-handle.
Razor-blade handle.
Razor-blade-stropping handle.
Satchel-handle.
Saw-handle.
Shade and curtain hanger
Spot-light-directing handle.
Suitcase-handle.
Switch-handle.
Tool-handle.
Vacuum-cleaner handle.
Valve-handle.
Vise-handle.
Wrench-handle.
Handle. W. Handler. No. 1,350,650; Aug. 24; v. 277; p. 662.
Handle. J. F. Lamb. No. 1,333,760; Mar. 16; v. 272; p. 412.
Handle. H. F. Porter. No. 1,362,506; Dec. 14; v. 281; p. 349.
Handle. W. A. Somers. No. 1,348,967; Aug. 10; v. 277; p. 214.
Handle and implement coupling. J. Curtis. No. 1,331,806; Feb. 24; v. 271; p. 582.
Handle attachment. A. Parry. No. 1,329,203; Jan. 27; v. 270; p. 568.
Handle-bar. H. T. Roberts. No. 1,331,875; Feb. 24; v. 271; p. 595.
Handle construction. H. C. Hart. No. 1,332,256; Mar. 2; v. 272; p. 15.
Handle for various articles. M. E. Bishop. No. 1,338,968; May 4; v. 274; p. 58.
Handle-grip. C. A. Persons. No. 1,345,505; July 6; v. 276; p. 35.
Handle-holder. S. Kilminster. No. 1,333,494; Mar. 9; v. 272; p. 301.
Handle member. P. A. Geier and F. E. Robertson. No. 1,349,828; Aug. 17; v. 277; p. 456.
Handle-securing means. G. G. Mallett. No. 1,336,707; Apr. 13; v. 273; p. 250.
Handle-socket, Adjustable. P. J. Morck. No. 1,362,341; Dec. 14; v. 281; p. 318.

Digitized by Google

Handles of tools, Means for securing heads to. S. J. Shepard. No. 1,342,929; June 8; v. 275; p. 311.
Handles to receptacles, Means for securing. J. Koenig. No. 1,330,479; Feb. 10; v. 271; p. 243.
Handler, Article-. A. D. Theodore. No. 1,350,123; Aug. 17; v. 277; p. 512.
Handling apparatus. M. F. Bayer. No 1,340,648; May 18; v. 274; p. 509.
Handpiece. W. F. Shaw. No. 1,354,139; Sept. 28; v. 278; p. 617.
Handsaw, Adjustable. G. McKenney. No. 1,349,427; Aug. 10; v. 277; p. 805.
Hangar, Dirigible. G. L. Le Cocq. No. 1,347,815; July 27; v. 276; p. 669.
Hanger: *See*—

Bed-bottom hanger.
Bottle-hanger.
Bowl-hanger.
Box-hanger.
Brake-hanger.
Broom-hanger.
Bucket-hanger.
Cable-hanger.
Cake-hanger.
Calendar-hanger.
Car-door hanger.
Chalk-hanger.
Clothesline-hanger.
Coat-hanger.
Coat and hat hanger.
Collapsible hanger.
Corn-hanger.
Curtain-hanger.
Curtain and portière hanger.
Curtain and shade hanger.
Curve pull-off hanger.
Door-hanger.
Garment-hanger.
Gate-hanger.
Harness-hanger.
Hat-hanger.
Laundry-hanger.
Overhead-track hanger.
Photographic-film hanger.
Picture-hanger.
Picture-frame hanger.
Pipe-hanger.
Repair-hanger.
Safety-hanger.
Sash-hanger.
Shade-hanger.
Shade and curtain hanger.
Shaft-hanger.
Shoe-lace hanger.
Shutter-hanger.
Skirt-hanger.
Soap-hanger.
Storm and screen window hanger.
Suit-hanger.
Towel-hanger.
Trolley-hanger.
Wash-hanger.
Wire-hanger.

Hanger. W. D. Banes. No. 1,344,110; June 22; v. 275; p. 671.
Hanger. R. T. Davis. No 1,356,269; Oct. 19; v. 279; p. 451.
Hanger. C. A. Durham. No. 1,332,618; Mar. 2; v. 272; p. 85.
Hanger. F. C. Hall. No. 1,343,364; June 15; v. 275; p. 459.
Hanger. E. J. Hoffman. No. 1,352,895; Sept. 14; v. 278; p. 266.
Hanger. C. A. Vette. No. 1,363,935; Dec. 28; v. 281; p. 719.
Hanger and frame-protector, Combination. J. Greenwald. No. 1,340,711; May 18; v. 274; p. 520.
Hanger-block. P. A. Friel. No. 1,350,964; Aug. 24; v. 277; p. 722.
Hanger or coupling. J. Davis. No. 1,350,008; Aug. 17; v. 277; p. 490.
Hardened articles, Apparatus for drawing the temper from portions of. R. W. Pittman. No. 1,362,736; Dec. 21; v. 281; p. 446.
Hardening and annealing furnace. A. M. Moore. No. 1,341,661; June 1; v. 275; p. 9.
Hardening bodies having the shape of solids of revolution, Method of and means for. A. G. E. Hultgren. No. 1,342,112; June 1; v. 275; p. 98.
Hardening-machine. C. G. Olson. No. 1,335,912; Apr. 6; v. 273; p. 39.
Harness. G. A. Bowness. No. 1,345,577; July 6; v. 276; p. 49.
Harness. T. H. Godwin. No. 1,357,772; Nov. 2; v. 280; p. 109.
Harness, Breast-collar. E. C. Davis. No. 1,331,488; Feb. 24; v. 271; p. 521.
Harness-hanger. A. M. Bean. No. 1,328,312; Jan. 20; v. 270; p. 367.
Harness, Hog-. B. W. Pierce. No. 1,362,505; Dec. 14; v. 281; p. 349.
Harness-hook. T. Burgess. No. 1,350,778; Aug. 24; v. 277; p. 687.
Harness-ring. I. R. Mendell. No. 1,333,555; Mar. 9; v. 272; p. 313.
Harness, Rosette for bridles and other parts of. H. L. Daugherty. No. 1,345,076; June 29; v. 275; p. 923.
Harness, Trunk-. B. Leahy. No. 1,327,680; Jan. 13; v. 270; p. 211.
Harp. M. A. Clark. No. 1,351,468; Aug. 31; v. 277; p. 885.
Harp and harp-action. J. F. Buckwell. No. 1,332,885; Mar. 9; v. 272; p. 187.
Harp, Trolley-. J. Miller. No. 1,340,456; May 18; v. 274; p. 472.
Harp, Trolley-. O. E. Vanasdale. No. 1,331,540; Feb. 24; v. 271; p. 531.
Harps or like instruments, Trunk for. W. I. Kirk. No. 1,352,814; Sept. 14; v. 278; p. 250.
Harpoon. F. G. Hinsdale. No. 1,344,693; June 29; v. 275; p. 851.
Harrow. M. D. Bollinger. No. 1,355,638; Oct. 12; v. 279; p. 286.
Harrow. J. W. Bowman. No. 1,328,363; Jan. 20; v. 270; p. 376.
Harrow. J. D. Brown. No. 1,341,538; May 25; v. 274; p. 750.
Harrow. J. D. Brown. No. 1,341,539; May 25; v. 274; p. 751.
Harrow. M. B. Fernandes, Jr. No. 1,348,100; July 27; v. 276; p. 726.
Harrow. V. Foch. No. 1,341,365; May 25; v. 274; p. 717.
Harrow. A. Fronczak. No. 1,329,118; Jan. 27; v. 270; p. 548.
Harrow. H. Gillis. No. 1,348,830; Aug. 3; v. 277; p. 134.
Harrow. O. D. Lent. No. 1,327,337; Jan. 6; v. 270; p. 85.
Harrow. W. O. Long. No. 1,336,642; Apr. 13; v. 273; p. 237.
Harrow. C. F. and M. G. Matz and B. V. Kerper. No. 1,355,494; Oct. 12; v. 279; p. 259.
Harrow. T. S. Moffett. No. 1,362,030; Dec. 14; v. 281; p. 257.
Harrow. F. E. Sivils. No. 1,345,966; July 6; v. 276; p. 127.
Harrow. D. N. Taylor. No. 1,332,148; Feb. 24; v. 271; p. 645.
Harrow and cultivator, Combined. J. W. Montgomery. No. 1,350,376; Aug. 24; v. 277; p. 608.
Harrow, Disk. T. E. Bissell. No. 1,331,229; Feb. 17; v. 271; p. 452.
Harrow, Disk. L. M. Davis. No. 1,362,854; Dec. 21; v. 281; p. 470.
Harrow, Disk. W. C. Dwyer. No. 1,336,687 Apr. 13; v. 273; p. 246.
Harrow, Disk. F. C. Warne. No. 1,344,159; June 22; v. 275; p. 680.
Harrow, Disk. C. E. White. No. 1,351,501; Aug. 31; v. 277; p. 891.
Harrow, Flexible lister-. W. H. Fisch. No. 1,361,037; Dec. 7; v. 281; p. 11.
Harrow for eliminating quack-grass. A. Mowatt. No. 1,350,512; Aug. 24; v. 277; p. 635.
Harrow-operating mechanism, Tractor-. A. W. Reynolds. No. 1,341,824; June 1; v. 275; p. 42.
Harrow, Revolving. C. Thurston and W. D. Miller. No. 1,330,150; Feb. 10; v. 271; p. 182.
Harrow, Riding-. H. W. Cloward. No. 1,329,580; Feb. 3; v. 271; p. 45.
Harrow riding attachment. C. K. Johnson. No.1,343,827; June 15; v. 275; p. 551.
Harrow, Rotary. J. Gordon. No. 1,331,340; Feb. 17; v. 271; p. 472.
Harrow, Rotary. J. Porteous. No. 1,339,605; May 11; v. 274; p. 254.
Harrow, Self-cleaning. H. W. Wright. No. 1,359,560; Nov. 23; v. 280; p. 612.
Harrow-shoe. R. S. Mix. No. 1,342,454; June 8; v. 275; p. 217.
Harrow, Tandem disk. S. W. Cady. No. 1,336,676; Apr. 13; v. 273; p. 244.
Harrow, Tandem disk. F. H. French. No. 1,337,448; Apr. 20; v. 273; p. 465.
Harrow, Tractor disk. C. S. Sharp. No. 1,334,562; Mar. 23; v. 272; p. 609.
Harrow, Weeding-. J. McKeag. No. 1,348,887; Aug. 10; v. 277; p. 198.
Harrow, Wheeled. R. R. Dupler. No. 1,327,424; Jan. 6; v. 270; p. 101.
Harrower and leveler, Combined. T. H. Thompson. No. 1,364,007; Dec. 28; v. 281; p. 733.
Harrows, Harrow attachment for disk. G. W. Lockhart. No. 1,332,049; Feb. 24; v. 271; p. 628.
Harrows, Plowing attachment for. A. C. Stalter. No. 1,327,119; Jan. 6; v. 270; p. 45.
Harrows, Runner attachment for. L. Willett. No. 1,353,007; Sept. 14; v. 278; p. 288.
Harvested products, Means for transporting. E. de Boyrie. No. 1,341,042; May 25; v. 274; p. 654.
Harvester. T. Dugan. No. 1,350,012; Aug. 17; v. 277; p. 491.
Harvester. C. J. Gardner. No. 1,339,924; May 11; v. 274; p. 314.
Harvester and thresher, Combined. B. C. Holt. No. 1,344,396; June 22; v. 275; p. 727.
Harvester, Aquatic-plant. H. E. Ellis. No. 1,344,626; June 29; v. 275; p. 838.
Harvester attachment. J. Schwartzkopf. No. 1,339,627; May 11; v. 274; p. 258.
Harvester, Bean-. J. Leck. No. 1,345,936; July 6; v. 275; p. 120.
Harvester, Beet-. J. W. Cady. No. 1,354,534; Oct. 5; v. 279; p. 18.
Harvester, Beet-. L. O. Graham. No. 1,357,163; Oct. 26; v. 279; p. 672.
Harvester, Beet-. M. Kanzaki. No. 1,328,281; Jan. 13; v. 270; p. 315.
Harvester, Beet-. W. K. Lewis and D. T. Blevins. No. 1,346,322; July 13; v. 276; p. 259.
Harvester, Beet-. S. A. McDowell. No. 1,333,324; Mar. 9; v. 272; p. 269.
Harvester, Beet-. M. S. Montague. No. 1,337,481; Apr. 20; v. 273; p. 471.
Harvester, Beet-. C. Nelson and L. A. Coffeen. No. 1,336,813; Apr. 6; v. 273; p. 115.

Digitized by Google

Harvester, Beet-. W. B. Smith. No. 1,347,596; July 27; v. 276; p. 625.
Harvester, Belt-. P. J. Cleereman. No. 1,342,795; June 8; v. 275; p. 285.
Harvester bundle-carrier. B. R. Benjamin. No. 1,328,781; Jan. 20; v. 270; p. 454.
Harvester, Caterpillar-tractor swamp-. H. E. Ellis. No. 1,344,624; June 29; v. 275; p. 838.
Harvester, Corn-. E. G. Barker. No. 1,345,527; July 6; v. 276; p. 39.
Harvester, Corn-. D. Byrd. No. 1,357,145; Oct. 26; v. 279; p. 669.
Harvester, Corn-. W. B. Gelatt. No. 1,328,791; Jan. 20; v. 270; p. 456.
Harvester, Corn-. C. A. Hagadone. No. 1,328,668; Jan. 20; v. 270; p. 433.
Harvester, Corn-. W. A. Zimpfer. No. 1,344,017; June 22; v. 275; p. 653.
Harvester, Corn and cane. H. E. Aulman. No. 1,362,912; Dec. 21; v. 281; p. 480.
Harvester, Cotton-. W. H. Chancellor. No. 1,342,528; June 8; v. 275; p. 232.
Harvester, Cotton-. J. Newman. No. 1,351,398; Aug. 31; v. 277; p. 871.
Harvester, Cotton-. J. T. Skillins. No. 1,355,787; Oct. 12; v. 279; p. 315.
Harvester, Egyptian corn, Milo maize, &c. R. A. Botts. No. 1,340,816; May 18; v. 274; p. 540.
Harvester, Fruit-. H. N. Hickok. No. 1,339,338; May 4; v. 274; p. 127.
Harvester, Grain-. E. W. Burgess. No. 1,345,070; June 29; v. 275; p. 922.
Harvester, Hand-. J. S. Taylor. No. 1,349,925; Aug. 17; v. 277; p. 474.
Harvester, Pea-. W. Y. E. Davis. No. 1,359,794; Nov. 23; v. 280; p. 658.
Harvester, Peanut-. G. W. Byrd. No. 1,345,315; June 29; v. 275; p. 970.
Harvester, Peanut-. T. J. Goodrum. No. 1,358,539; Nov. 9; v. 280; p. 321.
Harvester, Peanut-. W. O. Phillips. No. 1,357,115; Oct. 26; v. 279; p. 663.
Harvester, Potato-. M. E. Kilkenny. No. 1,338,493; Mar. 9; v. 272; p. 801.
Harvester, Potato-. G. W. Wiseman. No. 1,360,849; Nov. 30; v. 280; p. 933.
Harvester, Potato-. G. W. Wiseman. No. 1,360,850; Nov. 30; v. 280; p. 933.
Harvester, Push bean-. F. Sanders. No. 1,329,632; Feb. 3; v. 271; p. 54.
Harvester-reel arm. G. H. Prigan. No. 1,336,536; Apr. 13; v. 273; p. 217.
Harvester-reels, Safety-drive for. O. Stitt. No. 1,350,043; Aug. 17; v. 277; p. 497.
Harvesters, Bundle, positioning and discharge mechanism for. E. C. Anderson. No. 1,363,549; Dec. 28; v. 281; p. 644.
Harvesters, Coupling and operating device for tractor-. J. V. Ober. No. 1,339,278; May 4; v. 274; p. 116.
Harvesters, Shocking attachment for. J. C. Rader. No. 1,360,683; Nov. 30; v. 280; p. 901.
Harvesters, Vertical cutter-bar attachment for. O. P. Williams. No. 1,336,267; Apr. 6; v. 273; p. 106.
Harvesting and cotton-separating machine, Portable. J. E. Mitchell. No. 1,332,910; Mar. 9; v. 272; p. 192.
Harvesting and separating machine, Portable cotton. J. E. Mitchell. No. 1,357,579; Nov. 2; v. 280; p. 71.
Harvesting attachment, Flax-. A. H. Palmbush. No. 1,333,568; Mar. 9; v. 272; p. 316.
Harvesting implement. A. R. Grounds. No. 1,344,033; June 22; v. 275; p. 656.
Harvesting-machine. E. Baker. No. 1,346,159; July 13; v. 276; p. 225.
Harvesting-machine. W. F. de Brandt. No. 1,346,182; July 13; v. 276; p. 230.
Harvesting-machine. W. L. Hendricks. No. 1,344,130; June 22; v. 275; p. 675.
Harvesting-machine and wagons, Combination-hitch for. H. Nordeen. No. 1,357,721; Nov. 2; v. 280; p. 99.
Harvesting machine, Beet-. J. Devey. No. 1,331,957; Feb. 24; v. 271; p. 610.
Harvesting machine, Corn-. A. Olson and S. Hanson. No. 1,336,578; Apr. 13; v. 273; p. 225.
Harvesting-machine, Maize or Indian-corn. E. Logarzo. No. 1,351,665; Aug. 31; v. 277; p. 923.
Harvesting-machines, Grain or other box or compartment of. W. F. de Brandt. No. 1,332,813; Mar. 2; v. 272; p. 122.
Harvesting-machines, Pitman-protector for. M. A. Johnson. No. 1,335,897; Apr. 6; v. 273; p. 36.
Hasp, Door-. P. Veith. No. 1,342,361; June 1; v. 275; p. 146.
Hasp, Gravity-latching. R. W. Ledbetter. No. 1,362,167; Dec. 14; v. 281; p. 284.
Hat. R. Bradley. No. 1,338,283; Apr. 27; v. 273; p. 693.
Hat. C. A. Peters. No. 1,342,132; June 1; v. 275; p. 102.
Hat and bag, Combined. J. Rosenzwig. No. 1,361,289; Dec. 7; v. 281; p. 61.
Hat and cap protector. I. Rosenfeld. No. 1,331,876; Feb. 24; v. 271; p. 595.
Hat and coat rack. B. Brager. No. 1,333,462; Mar. 9; v. 272; p. 296.
Hat and garment holder. R. L. Ash. No. 1,336,406; Apr. 13; v. 273; p. 193.
Hat and garment support for foldable seats. F. W. Zeidler and C. Halpern. No. 1,345,729; July 6; v. 276; p. 79.
Hat and sweatband or leather to be used therefor. C. Hahlo. No. 1,359,502; Nov. 23; v. 280; p. 600.
Hat, Bathing-. J. B. Ballard. No. 1,330,299; Feb. 10; v. 271; p. 209.
Hat, Bathing-. J. T. Brogden. No. 1,350,776; Aug. 24; v. 277; p. 687.
Hat-bleaching composition. E. J. Stratigos. No. 1,347,721; July 27; v. 276; p. 650.
Hat-block. K. Wilson. No. 1,361,658; Dec. 7; v. 281; p. 136.
Hat-bodies, Marking. J. C. Wilson. No. 1,354,864; Oct. 5; v. 279; p. 83.
Hat-box, Collapsible. G. O. Erickson. No. 1,331,330; Feb. 17; v. 271; p. 471.
Hat, Convertible. T. S. Knotts. No. 1,347,338; July 20; v. 276; p. 518.
Hat-creaser. H. M. Darmstadter. No. 1,335,486; Mar. 30; v. 272; p. 843.
Hat-fastener. F. J. Cancianich. No. 1,341,356; May 25; v. 274; p. 715.
Hat-fastener. B. Fronek. No. 1,347,267; July 20; v. 276; p. 504.
Hat-fastener. W. Udesen. No. 1,361,204; Dec. 7; v. 281; p. 44.
Hat-flanging machine. T. Travis. No. 1,357,660; Nov. 2; v. 280; p. 87.
Hat-frame. R. W. Rosemire. No. 1,341,679; June 1; v. 275; p. 13.
Hat-hanger. C. P. Miller. No. 1,359,613; Nov. 23; v. 280; p. 622.
Hat-hanger, Extensible. N. M. Hansen. No. 1,359,595; Nov. 23; v. 280; p. 618.
Hat-holding device. B. Dickman. No. 1,357,546; Nov. 2; v. 280; p. 65.
Hat-lining. S. Rosenberg. No. 1,357,067; Oct. 26; v. 279; p. 654.
Hat-linings, Machine for making. R. Bell. No. 1,360,870; Nov. 30; v. 280; p. 937.
Hat-linings, Machine for making. G. W. Weiss. No. 1,347,001; July 20; v. 276; p. 451.
Hat-making machine. J. J. Tracy. No. 1,339,305; May 4; v. 274; p. 120.
Hat-press element. J. R. Ross. No. 1,335,197; Mar. 30; v. 272; p. 789.
Hat-protector. L. N. Daniels. No. 1,330,582; Feb. 10; v. 271; p. 262.
Hat-protector, Antimistake. J. E. Young. No. 1,357,211; Oct. 26; v. 279; p. 681.
Hat-protector, Waterproof. R. E. Chew. No. 1,337,506; Apr. 20; v. 273; p. 476.
Hat-rack, Manufacturer's. J. W. Etchells. No. 1,361,841; Dec. 14; v. 281; p. 219.
Hat reducer and pad. H. M. Darmstadter. No. 1,330,789; Feb. 17; v. 271; p. 369.
Hat-retaining device. W. R. Dales. No. 1,354,892; Oct. 5; v. 279; p. 89.
Hat shape retainer and loss preventing device. C. H. Huling. No. 1,333,314; Mar. 9; v. 272; p. 257.
Hat-size reducer. H. D. Curtis. No. 1,351,893; Sept. 7; v. 278; p. 36.
Hat sizing, blocking, and drying machine. B. R. La Selle. No. 1,356,902; Oct 26; v. 279; p. 639.
Hat, Sun-. R. P. Satterfield. No. 1,352,838; Sept. 14; v. 278. p. 255.
Hat-sweatband. J. C. Peterson. No. 1,349,472; Aug. 10; v. 277; p. 313.
Hat-sweatband. J. P. Weis. No. 1,347,528; July 27; v. 276; p. 611.
Hat-ventilation means. W. H. Bauert. No. 1,339,154; May 4; v. 274; p. 94.
Hat-ventilator. C. R. Williams. No. 1,350,535; Aug. 24; v. 277; p. 640.
Hat, Woman's. M. D. McDonald. No. 1,345,547; July 6; v. 276; p. 44.
Hats, Apparatus for sizing and shaping. A. Slocum. No. 1,343,887; June 15; v. 275; p. 564.
Hats, Conformator attachment for. H. L. Moses. No. 1,362,343; Dec. 14; v. 281; p. 318.
Hats, Crease-retaining device for. J. Korn. No. 1,352,975; Sept. 14; v. 278; p. 282.
Hats, Machine for blocking and pressing. W. H. Kendall. No. 1,343,185; June 8; v. 275; p. 361.
Hats, Machine for hardening. M. Krajnah and J. Madunicky. No. 1,343,729; June 15; v. 275; p. 532.
Hats, Machine for ornamenting and finishing the surfaces of felt. W. E. Turner. No. 1,350,687; Aug. 24; v. 277; p. 669.
Hats, Waterproof protector for ladies'. W. D. L. Busby. No. 1,331,142; Feb. 17; v. 271; p. 437.
Hatband. J. M. Powers. No. 1,342,924; June 8; v. 275; p. 310.
Hatband. J. H. de Sibour. No. 1,328,823; Jan. 27; v. 270; p. 491.
Hatbox. A. M. Maiz. No. 1,337,087; Apr. 13; v. 273; p. 323.

Digitized by Google

Alphabetical list of inventions—Continued.

Hatbox, Handy. D. J. Healy and M. L. McGee. No. 1,335,335; Mar. 30; v. 272; p. 815.
Hatpin. D. M. Stockdale. No. 1,350,945; Aug. 24; v. 277; p. 718.
Hatpin attachment. I. Kohl. No. 1,331,438; Feb. 17; v. 271; p. 491.
Hatpin attachment. J. B. Maserang. No. 1,341,858; June 1; v. 275; p. 48.
Hatpin attachment. J. B. Maserang. No. 1,343,786; June 15; v. 275; p. 533.
Hatpin-guard. J. S. Graham. No. 1,328,954; Jan. 27; v. 270; p. 517.
Hatpin-point protector. H. Woolhouse. No. 1,349,309; Aug. 10; v. 277; p. 282.
Hatpin-protector. S. Dobrovits. No. 1,357,035; Oct. 26; v. 279; p 647.
Hatpin safety device. A. Schopper. No. 1,356,225; Oct. 19; v. 279; p. 443.
Hatch-cover. K. Knutson. No. 1,352,202; Sept. 7; v. 278; p. 94.
Hatch-cover. J. S. Wood. No. 1,342,612; June 8; v. 275; p. 248.
Hatchet. J. W. Olney. No. 1,340,401; May 18; v. 274; p. 462.
Hatching instrument for drawings. C. Müller. No. 1,362,635; Dec. 21; v. 281; p. 427.
Haulage system. E. A. Derungs. No. 1,346,447; July 13; v. 276; p. 283.
Haulage system. E. A. Derungs. No. 1,360,902; Nov. 30; v. 280; p. 943.
Hawsers, ropes, &c., Device for securing. W. H. Sandford. No. 1,355,004; Oct. 5; v. 279; p. 110.
Hay and grain stacking frame. M. A. Lacey. No. 1,333,497; Mar. 9; v. 272; p. 302.
Hay-carriage. J. G. Mayer. No. 1,342,341; June 1; v. 275; p. 142.
Hay-carrier. H. S. Nunamaker. No. 1,346,242; July 13; v. 276; p. 242.
Hay-carrier. H. S. Nunamaker. No. 1,346,243; July 13; v. 276; p. 242.
Hay-carrier. H. S. Nunamaker. No. 1,354,125; Sept. 28; v. 278; p. 614.
Hay-cocker. G. H. Bennet. No. 1,347,141; July 20; v. 276; p. 478.
Hay-cocking machine. J. A. France. No. 1,340,763; May 18; v. 274; p. 530.
Hay-elevator. D. F. Eshleman. No. 1,335,228; Mar. 30; v. 272; p. 795.
Hay-fork. R. W. McBride. No. 1,357,882; Nov. 2; v. 280; p. 130.
Hay gatherer and stacker. W. I. Sonner. No. 1,327,687; Jan. 13; v. 270; p. 202.
Hay gathering and loading machine. R. R. Bowers. No. 1,361,302; Dec. 7; v. 281; p. 64.
Hay-handling appliance. E. C. Fredrickson. No. 1,354,247; Sept. 28; v. 278; p. 639.
Hay-loader. N. M. Bowers. No. 1,336,065; Apr. 6; v. 278; p. 68.
Hay-loader. R. A. Crandall. No. 1,348,091; July 27; v. 276; p. 724.
Hay-loader. A. E. Danke. No. 1,348,212; Aug. 3; v. 277; p. 16.
Hay-loader. C. R. Davis. No .1,338,215; Apr. 27; v. 273; p. 680.
Hay-loader. C. Hartman. No. 1,353,586; Sept. 21; v. 278; p. 462.
Hay-press. R. M. Hilton. No. 1,332,177; Feb. 24; v. 271; p. 650.
Hay-loader L. H. Kaupke. No. 1,356,722; Oct. 26; v. 279; p. 586.
Hay-loader. E. T. Seaton. No. 1,350,887; Aug. 24; v. 277; p. 707.
Hay loader, Alfalfa-. W. M. Williams. No. 1,353,202; Sept. 21; v. 278; p. 386.
Hay-loaders, Adjustable platform for. J. G. Sturtze. No. 1,352,996; Sept. 14; v. 278; p. 286.
Hay-loaders for wagons, Distributing mechanism for. W. M. Williams. No. 1,353,201; Sept. 21; v. 278; p. 386.
Hay-loaders, Front wheel and draft structures for. C. R. Davis. No. 1,361,369; Dec. 7; v. 281; p. 78.
Hay-loading device. H. Smith. No. 1,353,975; Sept. 28; v. 278; p. 583.
Hay-press. A. Fiset. No. 1,340,388; May 18; v. 274; p. 459.
Hay-press. W. E. Powell. No. 1,358,109; Nov. 9; v. 280; p. 235.
Hay-press. J. L. Wallis. No. 1,348,911; Aug. 10; v. 277; p. 203.
Hay-press. A. J. Winship. No. 1,335,309; Mar. 30; v. 272; p. 810.
Hay-press indicator. E. Gerardy. No. 1,337,553; Apr. 20; v. 273; p. 484.
Hay-presses, Scale for. E. L. Magly. No. 1,362,333; Dec. 14; v. 281; p. 316.
Hay-rake. E. W. Burgess. No. 1,331,481; Feb. 24; v. 271; p. 519.
Hay-rake. W. Kouns. No. 1,362,425; Dec. 14; v. 281; p. 334.
Hay rake and cocker, Combined. E. W. Burgess. No. 1,331,482; Feb. 24; v. 271; p. 520.
Hay rake and racker. F. Lake. No. 1,342,293; June 1; v. 275; p. 133.
Hay-rake, Automatic. G. N. Spencer. No. 1,356,230; Oct. 19; v. 279; p. 444.
Hay raking and loading device. H. Colvocoresses. No. 1,361,685; Dec. 7; v. 281; p. 142.
Hay-stacking machine. L. Kelly. No. 1,348,178; Aug. 3; v. 277; p. 9.
Hay-sweep. J. J. Champlin. No. 1,344,863; June 29; v. 275; p. 884.
Hay-sweep attachment. L. Hoesing. No. 1,340,391; May 18; v. 274; p. 460.
Hayrack. W. M. De Witt. No. 1,355,945; Oct. 19; v. 279; p. 386.
Hayrack. F. Georgeson. No. 1,353,229; Sept. 21; v. 278; p. 391.
Hayrack. W. F. and J. J. Mullaney. No. 1,359,824; Nov. 23; v. 280; p. 663.
Hayracks, Device for holding. W. E. Crawford. No. 1,349,496; Aug. 10; v. 277; p. 318.
Haystack-cover. I. W. Sandberg. No. 1,331,462; Feb. 17; v. 271; p. 496.
Haystacker. F. M. Powell. No. 1,330,745; Feb. 10; v. 271; p. 298.
Haystacker and wheat-heaver. J. E. Norman. No. 1,332,227; Mar. 2; v. 272; p. 10.
Haystackers, Spring-pullback for. J. H. Cope. No. 1,330,304; Feb. 10; v. 271; p. 210.
Head-block. J. Rossini. No. 1,362,046; Dec. 14; v. 281; p. 260.
Head-covering. E. A. Plummer. No. 1,330,286; May 4; v. 274; p. 117.
Head-covering and hair-comb, Combined. A. K. Dawson. No. 1,327,528; Jan. 6; v. 270; p. 121.
Head-covering for protection against insects. V. T. Leak and I. J. Thomas. No. 1,359,393; Nov. 16; v. 280; p. 533.
Head gage, Loss-of-. C. A. Humphreys. No. 1,338,504; Apr. 27; v. 273; p. 734.
Heading and forging machine gage. W. L. Clouse. No. 1,328,128; Jan. 13; v. 270; p. 295.
Heading-machine. R. L. Wilcox. No. 1,360,842; Nov. 30; v. 280; p. 932.
Heading or tunneling machine. H. Hirst. No. 1,361,096; Dec. 14; v. 281; p. 251.
Headlight. F. P. Ahman. No. 1,336,407; Apr. 13; v. 273; p. 193.
Headlight. E. L. Clark. No. 1,345,073; June 29; v. 275; p. 923.
Headlight. H. R. Davies. No. 1,362,085; Dec. 14; v. 281; p. 268.
Headlight. M. G. Harley. No. 1,328,992; Jan. 27; v. 270; p. 524.
Headlight. E. H. Hobbie. No. 1,341,128; May 25; v. 274; p. 671.
Headlight. R. H. Holman and F. D. Shenk. No. 1,331,813; Feb. 24; v. 271; p. 583.
Headlight. A. R. Martin. No. 1,347,394; July 20; v. 276; p. 528.
Headlight. J. W. Nichols. No. 1,332,139; Feb. 24; v. 271; p. 644.
Headlight. J. W. Pepple. No. 1,357,113; Oct. 26; v. 279; p. 663.
Headlight. T. W. Post. No. 1,327,732; Jan. 13; v. 270; p. 221.
Headlight. F. Richard. No. 1,328,692; Jan. 20; v. 270; p. 438.
Headlight. E. Schuyler. No. 1,354,136; Sept. 28; v. 278; p. 616.
Headlight. E. M. Smith. No. 1,331,592; Feb. 24; v. 271; p. 541.
Headlight. W. H. Stead. No. 1,335,081; Mar. 30; v. 272; p. 768.
Headlight. L. W. Swope. No. 1,341,947; June 1; v. 275; p. 66.
Headlight. H. H. Travis. No. 1,338,599; Apr. 27; v. 273; p. 751.
Headlight. O. Winston. No. 1,336,602; Apr. 13; v. 273; p. 229.
Headlight. O. Winston. No. 1,345,056; June 29; v. 275; p. 920.
Headlight. O. Winston. No. 1,346,519; July 13; v. 276; p. 297.
Headlight. O. Winston. No. 1,346,520; July 13; v. 276; p. 297.
Headlight. O. Winston. No. 1,349,595; Aug. 17; v. 277; p. 411.
Headlight. O. Winston. No. 1,355,876; Oct. 19; v. 279; p. 373.
Headlight. O. Winston. No. 1,355,877; Oct. 19; v. 279; p. 374.
Headlight. W. G. Wood. No. 1,363,073; Dec. 21; v. 281; p. 512.
Headlight. W. G. Wood and W. A. Meyer. No. 1,330,419; Feb. 10; v. 271; p. 232.
Headlight-adjusting device. E. E. Drumm. No. 1,347,537; July 27; v. 276; p. 613.
Headlight antiglare device. W. Bennett. No. 1,344,164; June 22; v. 275; p. 682.
Headlight attachment, Vehicle. C. B. Rowe and J. Lavercombe. No. 1,347,409; July 20; v. 276; p. 532.

Digitized by Google

Headlight, Automobile-. C. Davis. No. 1,360,899; Nov. 30; v. 280; p. 943.
Headlight, Automobile-. W. M. Fellers. No. 1,350,491; Aug. 24; v. 277; p. 632.
Headlight, Automobile-. J. W. Hamilton. No. 1,362,530; Dec. 14; v. 281; p. 355.
Headlight, Automobile-. H. F. Hammond. No. 1,357,775; Nov. 2; v. 280; p. 109.
Headlight, Automobile. J. H. Laird. No. 1,336,967; Apr. 13; v. 273; p. 300.
Headlight, Automobile-. F. A. Reece. No. 1,331,211; Feb. 17; v. 271; p. 449.
Headlight-beam modifier. L. Goldie. No. 1,338,482; Mar. 9; v. 272; p. 299.
Headlight-bracket, Swinging. J. Browning. No. 1,332,026; Feb. 24; v. 271; p. 623.
Headlight control. S. E. Jacoby and C. J. Edmonds. No. 1,340,771; May 18; v. 274; p. 531.
Headlight control. I. E. Pippert. No. 1,356,470; Oct. 19; v. 279; p. 490.
Headlight control, Automobile-. D. E. Kidder. No. 1,343,143; June 8; v. 275; p. 353.
Headlight control, Locomotive-. H. R. Fitzgerald and H. H. Walton. No. 1,333,205; Mar. 9; v. 272; p. 247.
Headlight-controlling mechanism. N. D. Rice. No. 1,337,849; Apr. 20; v. 273; p. 541.
Headlight-controlling mechanism for automobiles. R. C. Hake and A. V. Vissata. No. 1,331,913; Feb. 24; v. 271; p. 602.
Headlight-cover. L. O. Grondahl and A. H. Pfund. No. 1,350,277; Aug. 17; v. 277; p. 542.
Headlight-deflector. H. O. Carter. No. 1,352,579; Sept. 14; v. 278; p. 203.
Headlight-deflector. G. F. La Paul. No. 1,330,481; Feb. 10; v. 271; p. 243.
Headlight-dimmer. W. C. Baker. No. 1,359,656; Nov. 23; v. 280; p. 630.
Headlight-dimmer. T. Connell and C. T. Stach. No. 1,328,129; Jan. 13; v. 270; p. 295.
Headlight-dimmer. P. P. Hein. No. 1,346,708; July 13; v. 276; p. 334.
Headlight-dimmer. E. W. House. No. 1,360,529; Nov. 30; v. 280; p. 870.
Headlight-dimmer. S. Munson. No. 1,360,138; Nov. 23; v. 280; p. 726.
Headlight-dimmer. E. J. Reece. No. 1,330,766; Feb. 10; v. 271; p. 297.
Headlight-dimmer. J. Schirra. No. 1,354,695; Oct. 5; v. 279; p. 50.
Headlight-dimming attachment. S. Slade. No. 1,330,916; Feb. 17; v. 271; p. 394.
Headlight, Dirigible. A. Barnett. No. 1,359,313; Nov. 16; v. 280; p. 517.
Headlight, Dirigible. W. E. Brewer. No. 1,359,226; Nov. 16; v. 280; p. 499.
Headlight, Dirigible. G. H. Budd. No. 1,350,252; Aug. 17; v. 277; p. 537.
Headlight, Dirigible. L. P. Jackson. No. 1,362,703; Dec. 21; v. 281; p. 440.
Headlight, Dirigible. W. W. Kennard. No. 1,339,352; May 4; v. 274; p. 129.
Headlight, Dirigible. G. F. Messer. No. 1,343,822; June 15; v. 275; p. 550.
Headlight, Dirigible. H. E. Mouse. No. 1,349,085; Aug. 10; v. 277; p. 237.
Headlight, Dirigible. H. Nelson and J. Wedwick. No. 1,338,787; May 4; v. 274; p. 26.
Headlight, Dirigible. N. R. Renze. No. 1,354,845; Oct. 5; v. 279; p. 79.
Headlight, Dirigible. F. Spong. No. 1,327,574; Jan. 6; v. 270; p. 130.
Headlight, Dirigible. E. A. Townsend. No. 1,332,082; Feb. 24; v. 271; p. 633.
Headlight, Dirigible. M. A. Tucker. No. 1,352,894; Sept. 7; v. 278; p. 130.
Headlight, Dirigible. J. H. Whiting. No. 1,360,841; Nov. 30; v. 280; p. 932.
Headlight, Electric. O. Winston. No. 1,328,607; Jan. 20; v. 270; p. 422.
Headlight, Electric. W. H. Zorger. No. 1,348,617; Aug. 3; v. 277; p. 95.
Headlight for automobiles, Dirigible. E. L. Crane. No. 1,357,957; Nov. 9; v. 280; p. 205.
Headlight for automobiles, Dirigible. A. H. Kindle. No. 1,348,425; Aug. 3; v. 277; p. 58.
Headlight for vehicles, Dirigible. F. E. Poindexter. No. 1,360,791; Nov. 30; v. 280; p. 922.
Headlight-glass. A. L. Morrison. No. 1,339,604; May 11; v. 274; p. 254.
Headlight-lens. A. R. Gibson. No. 1,346,705; July 13; v. 276; p. 334.
Headlight-lens holder. E. I. Howard. No. 1,344,694; June 29; v. 275; p. 851.
Headlight-lens holder. E. I. Howard. No. 1,344,695; June 29; v. 275; p. 851.
Headlight lens-holder. F. W. Renwick. No. 1,334,924; Mar. 23; v. 272; p. 679.
Headlight mechanism, Dirigible-. M. B. Crenshaw. No. 1,329,505; Feb. 3; v. 271; p. 31.
Headlight mechanism, Dirigible. M. O. Meeks. No. 1,351,299; Aug. 31; v. 277; p. 851.
Headlight, No-glare. S. L. Lebby. No. 1,327,563; Jan. 6; v. 270; p. 128.
Headlight, Non-blinding. G. E. Brewer. No. 1,334,646; Mar. 23; v. 272; p. 624.
Headlight, Non-glare. F. L. Gerke. No. 1,354,739; Oct. 5; v. 279; p. 58.
Headlight, Non-glare. L. B. Salt. No. 1,354,422; Sept. 28; v. 278; p. 674.
Headlight, Non-glare. T. B. Shanahan. No. 1,354,699; Oct. 5; v. 279; p. 51.
Headlight, Reflector-. S. Brown. No. 1,359,789; Nov. 23; v. 280; p. 657.
Headlight-reflector. P. M. Hotchkin. No. 1,351,169; Aug. 31; v. 277; p. 824.
Headlight replacement. H. W. Brown. No. 1,357,761; Nov. 2; v. 280; p. 107.
Headlight rim and glass-closure support. C. E. Goetting. No. 1,361,151; Dec. 7; v. 281; p. 34.
Headlight-shade. F. W. Cappelen. No. 1,353,890; Sept. 28; v. 278; p. 565.
Headlight-shield. F. J. Newton. No. 1,344,594; June 22; v. 275; p. 767.
Headlight-swiveling apparatus. E. F. Jones and P. F. W. Bayley. No. 1,332,903; Mar. 9; v. 272; p. 190.
Headlight, Tiltable. O. M. Pollock. No. 1,363,483; Dec. 28; v. 281; p. 631.
Headlight-turning mechanism. A. Payne. No. 1,384,062; Sept. 28; v. 278; p. 601.
Headlight, Vehicle-. W. Churchill. No. 1,338,675; May 4; v. 274; p. 5.
Headlights, Adjustable reflector for. D. A. Garden. No. 1,350,308; Aug. 24; v. 277; p. 595.
Headlights, Attachment for automobile-. C. E. Clarke. No. 1,362,395; Dec. 14; v. 281; p. 328.
Headlights, Automatic director for. R. H. Shivers. No. 1,348,061; July 27; v. 276; p. 719.
Headlights, Circuit-controlling switch for. D. H. Ross. No. 1,341,932; June 1; v. 275; p. 63.
Headlights, Dimmer for automobile-. O. C. Patton. No. 1,343,886; June 15; v. 275; p. 563.
Headlights, Glare-preventing device for. M. Narodick. No. 1,333,033; Mar. 9; v. 272; p. 215.
Headlights, Non-glare lens for. J. O. Yardley. No. 1,352,236; Sept. 7; v. 278; p. 101.
Headlights, Power-generating unit for locomotive-. B. B. Lacy. No. 1,357,501; Nov. 2; v. 280; p. 56.
Headrest. F. O. Lines. No. 1,349,072; Aug. 10; v. 277; p. 234.
Headrest. M. Lipps. No. 1,349,073; Aug. 10; v. 277; p. 235.
Headstock-brake. H. C. Drake and A. Slagenhauf. No. 1,327,656; Jan. 13; v. 270; p. 206.
Hearth, Pair-heating-furnace. T. V. Allis. No. 1,334,207; Mar. 16; v. 272; p. 496.
Heat and cold indicator. T. Mungall. No. 1,334,960; Mar. 30; v. 272; p. 744.
Heat-conductor. H. S. Ash and A. J. Bridges. No. 1,363,383; Dec. 28; v. 281; p. 612.
Heat-conserving apparatus. R. N. Ehrhart. No. 1,343,666; June 15; v. 275; p. 519.
Heat-control system. P. W. Gumaer. No. 1,359,889; Nov. 23; v. 280; p. 676.
Heat-distributer. L. K. Belcher. No. 1,326,904; Jan. 6; v. 270; p. 4.
Heat-distributer. G. E. Latham and W. F. Whiteman. No. 1,361,795; Dec. 7; v. 281; p. 163.
Heat-economizer. D. S. Jacobus. No. 1,329,767; Feb. 3; v. 271; p. 78.
Heat-engine. B. Ames. No. 1,363,547; Dec. 28; v. 281; p. 644.
Heat-engine. P. Okey. No. 1,343,577; June 15; v. 275; p. 501.
Heat-exchange apparatus. P. Audianne. No. 1,358,050; Nov. 9; v. 280; p. 224.
Heat-exchange apparatus, Manufacture of. P. O. Serck. No. 1,363,208; Dec. 21; v. 281; p. 538.
Heat-exchange coils. Head for. J. N. Jacobsen. No. 1,356,822; Oct. 26; v. 279; p. 606.
Heat-exchanger. C. F. Braun. No. 1,353,449; Sept. 21; v. 278; p. 433.
Heat-exchanger. H. D. Hildebrand. No. 1,340,266; May 18; v. 274; p. 436.
Heat, Exchanging. H. D. Hildebrand. No. 1,340,267; May 18; v. 274; p. 436.
Heat-generating furnace. W. Thomas and A. E. Mainwaring. No. 1,349,537; Aug. 10; v. 277; p. 327.
Heat-insulated container. W. B. Rood and E. S. Johnson. No. 1,362,740; Dec. 21; v. 281; p. 447.
Heat-insulated receptacles, Method and apparatus for making. H. M. Smith. No. 1,360,809; Nov. 30; v. 280; p. 925.
Heat-insulated vessel and casing therefor. G. P. Altenberg. No. 1,353,305; Sept. 21; v. 278; p. 405.
Heat-insulating container. L. Hicks. No. 1,334,302; Mar. 23; v. 272; p. 560.
Heat-insulating device. H. Mock. No. 1,349,727; Aug. 17; v. 277; p. 437.
Heat-insulating fabric. F. y. Wedlock. No. 1,345,046; June 29; v. 275; p. 918.
Heat-insulating material and making same. R. B. Macdonald. No. 1,332,848; Mar. 2; v. 272; p. 33.

Digitized by Google

Heat-insulating material and making same. W. H. Winkley. No. 1,332,370; Mar. 2; v. 272; p. 38.
Heat-insulating sheet, Composite. D. W. Pye. No. 1,345,693; July 6; v. 276; p. 72.
Heat-interchange devices, Ribbed body for. H. Guyer. No. 1,339,385; May 11; v. 274; p. 211.
Heat, Method and apparatus for indicating. L. Hammond. No. 1,345,767; July 6; v. 276; p. 86.
Heat, Producing. C. E. Lucke. No. 1,344,049; June 22; v. 275; p. 660.
Heat-protective covering. J. H. Walsh. No. 1,332,314; Mar. 2; v. 272; p. 26.
Heat-regenerator. L. B. Skinner. No. 1,350,267; Aug. 17; v. 277; p. 540.
Heat-regulating means. W. M. Fulton. No. 1,349,058; Aug. 10; v. 277; p. 231.
Heat-regulator. L. H. Harlow. No. 1,355,041; Oct. 5; v. 279; p. 117.
Heat-regulator, Thermostatic. S. Lippert. No. 1,342,052; June 1; v. 275; p. 86.
Heat-transfer apparatus. H. Zimmermann. No. 1,338,479; Apr. 27; v. 273; p. 729.
Heat-treating apparatus. A. S. Macdonald and E. M. Huggins. No. 1,334,663; Mar. 23; v. 272; p. 627.
Heat-treating apparatus. A. Van Barth. No. 1,359,936; Nov. 23; v. 280; p. 686.
Heat-treating, Apparatus for foods and or other substances. N. H. Fooks. No. 1,363,103; Dec. 21; v. 281; p. 518.
Heat-treating box. W. H. Smith. No. 1,350,427; Aug. 24; v. 277; p. 618.
Heat-treating foods or other substances. N. H. Fooks. No. 1,331,337; Feb. 17; v. 271; p. 472.
Heat-treating furnace. E. E. Brock and S. Boyce. No. 1,336,814; Apr. 13; v. 273; p. 270.
Heat-treating furnace. C. J. Kirk. No. 1,332,501; Mar. 2; v. 272; p. 63.
Heat-treating furnace. C. J. Kirk. No. 1,337,454; Apr. 20; v. 273; p. 466.
Heat-treating metallic articles, Method of and apparatus for. H. P. Macdonald. No. 1,344,643; June 29; v. 275; p. 842.
Heat treatment. R. E. Talley. No. 1,362,367; Dec. 14; v. 281; p. 323.
Heat treatment. R. E. Talley. No. 1,362,368; Dec. 14; v. 281; p. 323.
Heater: *See*—
Air-heater.
Automatic air-heater.
Automobile-heater.
Automobile-radiator heater.
Auxiliary heater.
Carbureter-heater.
Chimney-heater.
Downdraft-heater.
Electric heater.
Electric fluid-heater.
Electric rivet-heater.
Electric water-heater.
Feed-water heater.
Fireplace-heater.
Floating heater.
Floor-heater.
Fluid-heater.
Food-heater.
Fuel-heater.
Garage-heater.
Gas-heater.
Gas-burning heater.
Gas or vapor heater.
Glue-heater.
Hot-air heater.
Hot-water heater.
Incubator-heater.
Instantaneous heater.
Intake-manifold heater.
Interfloor heater.
Internal tube-heater.
Liquid-heater.
Liquid-fuel heater.
Manifold-heater.
Oil-heater.
Oil-burning heater.
Oil-can heater.
Oil-tank heater.
Orchard-heater.
Popcorn-heater.
Poultry-house heater.
Radiator-heater.
Railway-switch heater.
Shaker and tank-heater.
Shoe-heater.
Silo-heater.
Solar heater.
Solder-pot heater.
Table-heater.
Tank-heater.
Tire-heater.
Vehicle-heater.
Washing-machine heater.
Water-heater.
Well-heater.
Heater. G. W. Balogh. No. 1,327,896; Jan. 13; v. 270; p. 251.
Heater. E. Blackburn and F. G. Smith. No. 1,335,216; Mar. 30; v. 272; p. 792.
Heater. C. F. Bowlus. No. 1,353,312; Sept. 21; v. 278; p. 407.
Heater. H. S. Busby. No. 1,328,419; Jan. 20; v. 270; p. 386.
Heater. R. De Polo. No. 1,363,575; Dec. 28; v. 281; p. 649.
Heater. A. A. Cardwell. No. 1,340,153; May 18; v. 274; p. 416.
Heater. E. B. Cleworth. No. 1,338,855; May 4; v. 274; p. 38.
Heater. G. W. Coen. No. 1,344,381; June 22; v. 275; p. 724.
Heater. H. Fickersen. No. 1,346,704; July 13; v. 276; p. 334.
Heater. H. D. Finberg and S. F. Levy. No. 1,355,220; Oct. 12; v. 279; p. 206.
Heater. W. J. Gross. No. 1,360,934; Nov. 30; v. 280; p. 949.
Heater. B. B. Kahn. No. 1,337,708; Apr. 20; v. 273; p. 514.
Heater. W. R. Lanum. No. 1,328,743; Jan. 20; v. 270; p. 447.
Heater. S. J. Lukaszewski. No. 1,329,052; Jan. 27; v. 270; p. 535.
Heater. W. P. Merry. No. 1,328,246; Jan. 13; v. 270; p. 318.
Heater. C. A. Moore. No. 1,352,676; Sept. 14; v. 278; p. 222.
Heater. R. N. Murphy. No. 1,354,055; Sept. 28; v. 278; p. 599.
Heater. O. W. Nottingham. No. 1,355,249; Oct. 12; v. 279; p. 212.
Heater. D. J. Nysewander. No. 1,336,753; Apr. 13; v. 273; p. 258.
Heater. E. J. Pelton. No. 1,341,580; May 25; v. 274; p. 758.
Heater. F. R. Pettitt. No. 1,351,342; Aug. 31; v. 277; p. 860.
Heater. I. C. Popper and C. H. Bayer. No. 1,342,570; June 8; v. 275; p. 240.
Heater. J. M. Selden. No. 1,352,481; Sept. 14; v. 278; p. 183.
Heater. W. K. Stafford. (Reissue.) No. 15,000; Dec. 7; v. 281; p. 164.
Heater. L. H. Whitehorn. No. 1,327,508; Jan. 6; v. 270; p. 117.
Heater. C. A. Xardell. No. 1,353,556; Sept. 21; v. 278; p. 455.
Heater and cooker, Gas. J. S. E. Panasevitch. No. 1,345,807; July 6; v. 276; p. 94.
Heater and holder-on for rivets for riveting purposes, Automatic. J. C. Van Haagen. No. 1,358,900; Nov. 16; v. 280; p. 439.
Heater and maintenance-wagon, Combination. H. P. Andresen. No. 1,340,131; May 11; v. 274; p. 354.
Heater and ventilator. J. A. Greene. No. 1,354,479; Oct. 5; v. 279; p. 6.
Heater and ventilator. J. A. Greene. No. 1,359,888; Nov. 23; v. 280; p. 676.
Heater-beds, Means for holding impression-plates upon. C. F. Burroughs. No. 1,346,876; July 20; v. 276; p. 426.
Heater, Electric. H. Kruesheld. No. 1,363,206; Dec. 21; v. 281; p. 538.
Heater for cooling systems. R. Ellis. No. 1,345,928; July 6; v. 276; p. 117.
Heater for water and other liquids, Automatic. A. Papini. No. 1,358,982; Nov. 16; v. 280; p. 454.
Heater or superheater for steam, air, or gases. R. H. Cabena. No. 1,332,943; Mar. 9; v. 272; p. 198.
Heaters, Automatic electric switch or circuit-controlling mechanism for electric fluid-. A. Papini. No. 1,340,668; May 18; v. 274; p. 513.
Heaters, Automatic igniter for orchard-. N. H. Bray. No. 1,328,788; Jan. 20; v. 270; p. 455.
Heaters, Gas-burner for. R. Depew. No. 1,352,358; Sept. 7; v. 278; p. 123.
Heaters, Guard for. S. Skelly. No. 1,332,474; Mar. 2; v. 272; p. 57.
Heaters, Thermostat-controller for hot-water gas-. E. M. Youngman. No. 1,340,513; May 18; v. 274; p. 483.
Heaters with supply members, Device for clamping fluid-. A. Papini. No. 1,345,396; July 6; v. 276; p. 14.
Heating and cooking apparatus, Domestic. N. Pemberton-Billing. No. 1,345,400; July 6; v. 276; p. 15.
Heating and cooking apparatus, Domestic. N. Pemberton-Billing. No. 1,349,096; Aug. 10; v. 277; p. 239.
Heating and cooking apparatus, Electrical. C. G. and W. W. Nobbs. No. 1,345,222; June 29; v. 275; p. 952.
Heating and liquefying apparatus. H. Davison and W. R. Townsend. No. 1,341,046; May 25; v. 274; p. 655.
Heating and ventilating device. J. C. Miles. No. 1,343,330; June 15; v. 275; p. 453.
Heating and ventilating system. J. C. Veil. No. 1,331,404; Feb. 17; v. 271; p. 485.
Heating and ventilating unit. W. Shurtleff. No. 1,332,923; Mar. 9; v. 272; p. 194.
Heating and ventilating unit. W. Shurtleff. No. 1,358,181; Nov. 9; v. 280; p. 249.
Heating apparatus. D. P. Cleveland. No. 1,349,943; Aug. 17; v. 277; p. 477.
Heating apparatus. L. G. Copeman. No. 1,336,552; Apr. 13; v. 273; p. 220.
Heating apparatus. J. Erskine. No. 1,342,991; June 8; v. 275; p. 323.
Heating apparatus. J. Good. No. 1,345,361; July 6; v. 276; p. 7.
Heating apparatus. J. Good. No. 1,349,668; Aug. 17; v. 277; p. 425.
Heating apparatus. W. S. Hadaway, Jr. No. 1,349,130; Aug. 10; v. 277; p. 245.
Heating apparatus. W. S. Hadaway, Jr. No. 1,349,131; Aug. 10; v. 277; p. 246.
Heating apparatus. W. S. Hardaway, Jr. No. 1,356,818; Oct. 26; v. 279; p. 605.
Heating apparatus. A. C. Ionides, Jr. No. 1,349,279; Aug. 10; v. 277; p. 276.
Heating apparatus. J. Koenig. No. 1,330,478; Feb. 10; v. 271; p. 243.
Heating apparatus. A. J. La Fay. No. 1,349,617; Aug. 17; v. 277; p. 415.
Heating apparatus. A. R. Pritchard. No. 1,327,213; Jan. 6; v. 270; p. 63.

Digitized by Google

Heating apparatus. J. Ryckman. No. 1,338,965; May 4; v. 274; p. 58.
Heating apparatus. T. C. Sebring. No. 1,341,723; June 1; v. 275; p. 21.
Heating apparatus. E. Sievart. No. 1,349,982; Aug. 17; v. 277; p. 486.
Heating apparatus. A. R. Thompson. No. 1,357,598; Nov. 2; v. 280; p. 75.
Heating apparatus, Air-. M. Sklovsky. No. 1,360,457; Nov. 30; v. 280; p. 856.
Heating apparatus, Catalytic. R. Camell, L. Cochet, and J. Gritte. No. 1,354,090; Sept. 28; v. 278; p. 607.
Heating apparatus, Catalytic. J. Herck. No. 1,347,681; July 27; v. 276; p. 632.
Heating apparatus, Electric-. O. A. Colby. No. 1,332,029; Feb. 24; v. 271; p. 624.
Heating apparatus, Electrical. L. E. Seimbille. No. 1,352,547; Sept. 14; v. 278; p. 196.
Heating apparatus, Snap-switch for electrical. W. R. Savage. No. 1,355,701; Oct. 12; v. 279; p. 299.
Heating attachment. I. G. Yost. No. 1,334,827; Mar. 23; v. 272; p. 659.
Heating body, Electric-. A. Arntsen and K. Trosdahl. No. 1,352,934; Sept. 14. v. 278; p. 274.
Heating device. L. V. Aronson. No. 1,358,495; Nov. 9; v. 280; p. 313.
Heating device. W. A. Brewster. No. 1,337,038; Apr. 13; v. 273; p. 314.
Heating device. A. M. Duttweiler. No. 1,341,788; June 1; v, 275; p. 35.
Heating device. S. Goodman. No. 1,343,670; June 15; v. 275; p. 520.
Heating device. J. Harding. No. 1,331,061; Feb. 17; v. 271; p. 422.
Heating device and control therefor. S. Thomson. No. 1,350,895; Aug. 24; v. 277; p. 708.
Heating device by electricity. P. P. Meunier. No. 1,333,724; Mar. 16; v. 272; p. 406.
Heating device, Electrically-operated air-. A. P. Nichols. No. 1,333,933; Mar. 16; v. 272; p. 444.
Heating devices, Attachment-plug for electric. W. N. Furthmann. No. 1,329,592; Feb. 3; v. 271; p. 47.
Heating devices, Method and insulation for. J. J. Zwerling. No. 1,363,074; Dec. 21; v. 281; p. 512.
Heating-drum. E. G. Klingbeil. No. 1,345,603; July 6; v. 276; p. 54.
Heating element and wiring therefor, Electric. S. L. Kelly. No. 1,348,648; Aug. 3; v. 277; p. 101.
Heating element, Electrical. P. F. Apfel. No. 1,337,633; Apr. 20; v. 273; p. 500.
Heating element, Electrical. H. G. Levy. No. 1,332,852; Mar. 2; v. 272; p. 129.
Heating-furnace. R. J. G. Blockouse. No. 1,335,648; Mar. 30; v. 272; p. 873.
Heating-furnace. W. C. Buell, Jr. No. 1,344,436; June 22; v. 275; p. 735.
Heating-furnace. W. C. Buell, Jr. No. 1,344,437; June 22; v. 275; p. 736.
Heating-furnace. W. C. Buell, Jr., and J. W. Griswold. No. 1,344,438; June 22; v. 275; p. 736.
Heating-furnace. J. Cooper. No. 1,362,232; Dec. 14; v. 281; p. 297.
Heating-furnace. N. F. Egler. No. 1,338,003; Apr. 27; v. 273; p. 640.
Heating-furnace. G. J. Hagan and J. M. Hopwood. No. 1,362,296; Dec. 14; v. 281; p. 309.
Heating-furnace, Air. L. Lee. No. 1,362,579; Dec. 14; v. 281; p. 364.
Heating-furnace. C. L. W. Trinks. No. 1,342,074; June 1; v. 275; p. 90.
Heating means. W. W. Lillard. No. 1,349,136; Aug. 10; v. 277; p. 247.
Heating or cooling apparatus. R. Achard. No. 1,332,092; Feb. 24; v. 271; p. 635.
Heating plant. R. L. Doran. No. 1,338,361; Apr. 27; v. 273; p. 708.
Heating plants, Attachment for steam-. F. B. Dawley. No. 1,344,292; June 22; v. 275; p. 707.
Heating resistance element, Electric-. L. V. Leonard. No. 1,337,779; Apr. 20; v. 273; p. 528.
Heating system. E. Edsen. No. 1,345,149; June 29; v. 275; p. 988.
Heating system. D. T. Kenney. No. 1,352,371; Sept. 7; v. 278; p. 126.
Heating system. J. E. MacDonald. No. 1,326,944; Jan. 6; v. 270; p. 12.
Heating system. E. P. Rich. No. 1,338,961; May 4; v. 274; p. 57.
Heating system, Auxiliary. A. S. Meadoff. No. 1,341,144; May 25; v. 274; p. 674.
Heating system, Electrical. W. Whelan. No. 1,329,488; Feb. 3; v. 271; p. 27.
Heating system, Electric. J. S. McWhirter. No. 1,338,088; Apr. 27; v. 273; p. 656.
Heating system, Vapor steam-. E. E. Gold. No. 1,360,519; Nov. 30; v. 280; p. 869.
Heating systems, Automatic vaporizer for hot-water. M. Houck. No. 1,344,894; June 29; v. 275; p. 889.
Heating systems, Condensation-return trap for. G. H. King. No. 1,362,424; Dec. 14; v. 281; p. 334.
Heating unit, Electric. F. W. Hewitt. No. 1,328,229; Jan. 13; v. 270; p. 814.
Heating unit, Electric. E. A. Rutenberg. No. 1,337,725; Apr. 20; v. 273; p. 518.
Heating water, Controlling the flow of gas for. R. T. Parisen. No. 1,330,215; Feb. 10; v. 271; p. 194.
Heavier-than-air bodies, Safety device for. E. R. Case. No. 1,341,783; June 1; v. 275; p. 34.
Heckling-machine. I. Etrich. No. 1,331,333; Feb. 17; v. 271; p. 471.
Heddle. H. Ruegg, Jr. No. 1,341,244; May 25; v. 274; p. 693.
Heddle. H. Ruegg, Jr. No. 1,341,245; May 25; v. 274; p. 694.
Heddle-frame. J. Kaufmann. No. 1,359,251; Nov. 16; v. 280; p. 505.
Heddle-frame. J. Kaufmann. No. 1,359,252; Nov. 16; v. 280; p. 505.
Heddle-frame. J. Kaufmann. No. 1,359,253; Nov. 16; v. 280; p. 505.
Heddle-harness-spacer machine. F. E. Bearden. No. 1,339,313; May 4; v. 274; p. 122.
Heddles, Machine for automatically assembling wire. F. G. Hoberg. No. 1,355,670; Oct. 12; v. 279; p. 292.
Heel. J. Burger. No. 1,336,194; Apr. 6; v. 273; p. 93.
Heel. J. Burger. No. 1,337,639; Apr. 20; v. 273; p. 501.
Heel. W. O. Colburn. No. 1,362,229; Dec. 14; v. 281; p. 297.
Heel. E. F. Crosby. No. 1,335,485; Mar. 30; v. 272; p. 843.
Heel. R. L. Davis and H. Kaplan. No. 1,335,664; Mar. 30; v. 272; p. 877.
Heel. A. H. Sommers. No. 1,340,571; May 18; v. 274; p. 494.
Heel. A. Twarogowski. No. 1,341,088; May 25; v. 274; p. 663.
Heel. C. Weis. No. 1,358,598; Nov. 9; v. 280; p. 333.
Heel, Adjustable shoe-. B. J. Clements. No. 1,361,683; Dec. 7; v. 281; p. 141.
Heel and producing same, Shoe-. L. J. Henriksen. No. 1,328,249; Jan. 13; v. 270; p. 818.
Heel, Attachable. G. Schade. No. 1,341,387; May 25; v. 274; p. 721.
Heel-attaching means. J. A. Mitchell. No. 1,343,638; June 15; v. 275; p. 513.
Heel, Boot and shoe. V. B. Greco. No. 1,328,991; Jan. 27; v. 270; p. 524.
Heel-breast-trimming machine. L. G. Freeman. No. 1,354,037; Sept. 28; v. 278; p. 595.
Heel-breasting machine. R. E. Laughton and P. E. Barnes. No. 1,352,007; Sept. 7; v. 278; p. 58.
Heel-breasting machine. E. E. Winkley. No. 1,344,782; June 29; v. 275; p. 869.
Heel-builder. T. Lund. No. 1,330,544; Feb. 10; v. 271; p. 255.
Heel-building machine. J. E. Mitchell, W. Wolfe, and D. Parks. No. 1,352,302; Sept. 7; v. 278; p. 113.
Heel-building machine. E. E. Winkley. No. 1,342,366; June 1; v. 275; p. 146.
Heel-building machines. J. W. Cosgrove. No. 1,331,624; Feb. 24; v. 271; p. 547.
Heel-clamp. C. Wassill. No. 1,355,114; Oct. 5; v. 279; p. 132.
Heel-clamping device. M. F. Brogan. No. 1,327,020; Jan. 6; v. 270; p. 27.
Heel, Combination-. F. J. McEwan. No. 1,346,038; July 6; v. 276; p. 141.
Heel, Composition-. J. C. Krieg and F. Fishbaugh. No. 1,331,713; Feb. 24; v. 271; p. 564.
Heel construction, Shoe-. W. J. Morgan. No. 1,338,580; Apr. 27; v. 273; p. 748.
Heel, Cushion-. T. W. Arter. No. 1,345,114; June 29; v. 275; p. 931.
Heel, Cushion-. B. Jackerson. No. 1,328,154; Jan. 13; v. 270; p. 800.
Heel, Cushion-. L. Stein. No. 1,360,811; Nov. 30; v. 280; p. 926.
Heel, Cushion-. C. C. Stolzenburg. No. 1,343,528; June 15; v. 275; p. 492.
Heel-cutter. C. S. Reamy. No. 1,344,247; June 22; v. 275; p. 697.
Heel, Detachable. A. V. Des Moineaux. No. 1,343,353; June 15; v. 275; p. 457.
Heel, Detachable. C. Sohr. No. 1,359,626; Nov. 23; v. 280; p. 624.
Heel-fastening means. A. Vomela. No. 1,354,356; Sept. 28; v. 278; p. 660.
Heel for footwear, Non-slip. G. W. Watson. No. 1,350,190; Aug. 17; v. 277; p. 526.
Heel for ladies' shoes, Aluminum. D. Boltzman. No. 1,363,388; Dec. 28; v. 281; p. 613.
Heel for shoes, Cushion-. P. A. De Luca. No. 1,338,817; May 4; v. 274; p. 31.
Heel, Gripping rubber shoe-. H. C. Egerton. No. 1,352,734; Sept. 14; v. 278; p. 234.
Heel, Interchangeable cushion-. C. H. McLean. No 1,354,499; Oct. 5; v. 279; p. 10.
Heel lift, Resilient shoe-. F. Kish. No. 1,333,983; Mar. 16; v. 272; p. 454.
Heel-lifts, Apparatus for cutting. G. Basler. No. 1,343,759; June 15; v. 275; p. 538.
Heel-machine. S. J. Wentworth. No. 1,361,942; Dec. 14; v. 281; p. 339.

Digitized by Google

Alphabetical list of inventions—Continued.

Heel manufacture, Machine for use in. J. H. Pope. No. 1,346,248; July 13; v. 276; p. 243.
Heel manufacture, Process and appliances for. R. S. Ayres. No. 1,350,852; Aug. 24; v. 277; p. 701.
Heel-molds, Machine for placing washers in. B. W. Martin and H. Sams. No. 1,336,319; Apr. 6; v. 273; p. 116.
Heel molds, Washer-setter for rubber-. F. Krivosky and J. Stoykovich. No. 1,344,237; June 22; v. 275; p. 695.
Heel-nailing machine. G. M. Pettengill. No. 1,345,876; July 6; v. 276; p. 107.
Heel or heel-lift, Resilient. R. I. Hill. No. 1,328,564; Jan. 20; v. 270; p. 414.
Heel or lift, Rubber. J. T. Ashton. No. 1,334,210; Mar. 16; v. 272; p. 496.
Heel-pad and fastening device therefor, Detachable. B. Walters and L. Arntz. No. 1,330,731; Feb. 10; v. 271; p. 290.
Heel-plate for shoes, Resilient. H. G. Robinson. No. 1,337,962; Apr. 20; v. 273; p. 563.
Heel-plate-scouring machine. R. W. C. Bassett and A. E. Jerram. No. 1,353,821; Sept. 28; v. 278; p. 551.
Heel-press. C. H. Carey. No. 1,352,501; Sept. 14; v. 278; p. 187.
Heel-press with automatic ejector. E. Hansalpakar. No. 1,332,037; Feb. 24; v. 271; p. 625.
Heel-pricking machine. A. A. Haahr. No. 1,338,013; Apr. 27; v. 273; p. 642.
Heel, Protected pneumatic. W. B. Kay. No. 1,342,291; June 1; v. 275; p. 133.
Heel, Renewable. S. Shepelevich. No. 1,355,921; Oct. 19; v. 279; p. 382.
Heel-retaining device. T. L. Hollingsworth. No. 1,359,805; Nov. 23; v. 280; p. 660.
Heel, Rubber. R. I. Hill. No. 1,331,199; Feb. 17; v. 271; p. 447.
Heel, Rubber. J. R. Pettit. No. 1,350,332; Aug. 24; v. 277; p. 599.
Heel, Rubber. G. F. Quinn. No. 1,341,383; May 25; v. 274; p. 720.
Heel, Rubber. G. J. Reuter. No. 1,356,113; Oct. 19; v. 279; p. 420.
Heel, Rubber-cushioned. F. Neubauer. No. 1,356,549; Oct. 26; v. 279; p. 552.
Heel-scouring machine. R. L. Greenleaf. No. 1,351,290; Aug. 31; v. 277; p. 849.
Heel, Shock-absorbing. W. W. Brown. No. 1,328,816; Jan. 27; v. 270; p. 489.
Heel, Shoe-. P. Diuk. No. 1,339,438; May 11; v. 274; p. 222.
Heel, Shoe-. D. H. Finberg. No. 1,335,371; Mar. 30; v. 272; p. 822.
Heel, Shoe-. G. F. Fischer. No. 1,350,216; Aug. 17; v. 277; p. 531.
Heel, Shoe-. T. Hand. No. 1,330,183; Feb. 10; v. 271; p. 188.
Heel, Shoe-. E. S. Helwitz. No. 1,346,709; July 13; v. 276; p. 334.
Heel, Shoe-. F. P. Marx. No. 1,356,727; Oct. 26; v. 279; p. 587.
Heel, Shoe-. F. P. Marx. No. 1,362,256; Dec. 14; v. 281; p. 302.
Heel, Shoe-. R. W. Padden. No. 1,346,841; July 20; v. 276; p. 419.
Heel, Shoe-. G. E. Rohmer. No. 1,356,829; Oct. 26; p. 607.
Heel, Shoe-. F. Sahr. No. 1,344,356; June 22; v. 275; p. 719.
Heel, Shoe-. A. Santacroce. No. 1,351,543; Aug. 31; v. 277; p. 899.
Heel, Shoe-. A. Schaefer. No. 1,341,521; May 25; v. 274; p. 747.
Heel, Shoe-. S. G. Shapiro. No. 1,354,138; Sept. 28; v. 278; p. 616.
Heel, Shoe-. S. G. Shapiro. No. 1,355,362; Oct 12; v. 279; p. 234.
Heel, Shoe-. S. G. Shapiro. No. 1,356,227; Oct. 19; v. 279; p. 443.
Heel, Shoe-. S. G. Shapiro. No. 1,356,228; Oct. 19; v. 279; p. 443.
Heel, Shoe-. A. Vanblom. No. 1,347,422; July 20; v. 276; p. 534.
Heel, Shoe-. A. Wedein and J. P. Stevens. No. 1,347,883; July 27; v. 276; p. 683.
Heel-tread, Resilient. R. Armour. No. 1,344,972; June 29; v. 275; p. 904.
Heel, Wood. A. B. George. No. 1,356,861; Oct. 26; v. 279; p. 614.
Heel, Wooden French shoe-. J. L. Preo and I. Henne. No. 1,340,910; May 25; v. 274; p. 628.
Heel, Wooden French shoe-. J. L. Preo and I. Henne. No. 1,340,911; May 25; v. 274; p. 629.
Heels, Attaching means for rubber. J. W. Denmead. No. 1,344,443; June 22; v. 275; p. 737.
Heels, Clamp for use in trimming boot and shoe. L. A. Trull. No. 1,336,002; Apr. 6; v. 273; p. 57.
Heels, Fastening for shoe-. M. Snider and H. Kaufman. No. 1,333,188; Mar. 9; v. 272; p. 235.
Heels, Inserting inserts in rubber. R. I. Hill. No. 1,329,524; Feb. 3; v. 271; p. 84.
Heels, Machine for operating on. C. A. Bliss. No. 1,351,152; Aug. 31; v. 277; p. 821.
Heels, Machine for operating on. J. H. Pope. No. 1,346,247; July 13; v. 276; p. 243.
Heels, Making. F. V. Hart. No. 1,361,053; Dec. 7; v. 281; p. 14.
Heels, Manufacture of boot and shoe. R. S. Ayres. No. 1,327,851; Jan. 13; v. 270; p. 243.
Heels of shoes, Apparatus for covering the. W. J. Drey. No. 1,341,737; June 1; v. 275; p. 25.
Heels, Repair part or section for. L. Rosenfeld. No. 1,345,886; July 6; v. 276; p. 110.
Heeling-machine. T. Lund. No. 1,344,305; June 22; v. 275; p. 709.
Heeling-machine. J. H. Pope. No. 1,330,900; Feb. 17; v. 271; p. 391.
Helicopter. P. C. Hewitt. No. 1,350,455; Aug. 24; v. 277; p. 625.
Helicopter. P. C. Hewitt. No. 1,350,456; Aug. 24; v. 277; p. 625.
Helocopter or gyrocopter. E. Berliner. No. 1,361,222; Dec. 7; v. 281; p. 48.
Helmet and parachute for aviators' use, Combined. S. D. Mott. No. 1,330,274; Feb. 10; v. 271; p. 205.
Helmet, Aviator's. A. Kaminski. No. 1,348,950; Aug. 10; v. 274; p. 211.
Helmet, Life-preserver. D. Del Re. No. 1,348,094; July 27; v. 276; p. 725.
Hemorrhoids and resection of prolapsus recti, Instrument for the removal of. A. W. Hauman. No. 1,344,227; June 22; v. 275; p. 694.
Hemp-brake. R. Eades. No. 1,327,533; Jan. 6; v. 270; p. 122.
Hemp-brake. W. J. Reynolds. No. 1,331,526; Feb. 24; v. 271; p. 528.
Hemp-brake. C. White. No. 1,358,907; Nov. 16; v. 280; p. 440.
Hemp, flax, and other fibrous materials, Apparatus employed in drawing and spinning. J. Lovett. No. 1,345,203; June 29; v. 275; p. 948.
Hemp, Manufacturing elastic imitation. T. Honda. No. 1,351,385; Aug. 31; v. 277; p. 868.
Hemp or other fibrous material, Machine for breaking and scutching. C. E. Roberts. No. 1,356,740; Oct. 26; v. 279; p. 590.
Hemp or other fibrous material, Machine for breaking and scutching. W. A. Shely. No. 1,342,772; June 8; v. 275; p. 280.
Hemp or other fibrous material, Machine for treating or breaking and scutching. W. A. Shely. No. 1,342,771; June 8; v. 275; p. 280.
Hemp-stripping machine. M. J. Salas y Rodriguez. No. 1,334,262; Mar. 16; v. 272; p. 506.
Hen-marker. H. A. Calmus. No. 1,350,209; Aug. 17; v. 277; p. 530.
Herring and fish, Machine for the treatment of. N. Spjelkavik. No. 1,335,133; Mar. 30; v. 272; p. 778.
Hexanitrodiphenylamin, Making. J. Marshall. No. 1,326,947; Jan. 6; v. 270; p. 13.
Hide-stretcher. A. Berg. No. 1,339,093; May 4; v. 274; p. 83.
Hide-stretching device. F. H. Townsend. No. 1,355,928; Oct. 19; v. 279; p. 383.
Hide-working machine. A. A. Hutchinson. No. 1,339,201; May 4; v. 274; p. 102.
Hides and skins, Apparatus for the instantaneous tannage of. F. Gilardini. No. 1,363,771; Dec. 28; v. 281; p. 687.
Hides and skins, Machine for treating. D. Mercier. No. 1,347,866; July 27; v. 276; p. 679.
Hides, Lining and dehairing. P. Remer. No. 1,331,723; Feb. 24; v. 271; p. 565.
Hides, Machine for stretching. F. W. Tucker. No. 1,338,050; Apr. 27; v. 273; p. 649.
Hides or other articles, Apparatus for dipping. C. P. Bossert. No. 1,359,225; Nov. 16; v. 280; p. 499.
Hides or skins, Curing. G. R. Oliphant. No. 1,362,502; Dec. 14; v. 281; p. 349.
Hides or skins, Liming and other tanning operations upon. C. M. Owen. No. 1,342,866; June 8; v. 275; p. 299.
Hides, skins, and leather, Machine for treating. J. W. O'Donnell. No. 1,332,747; Mar. 2; v. 272; p. 109.
High chair, Convertible. C. J. Sundell. No. 1,334,058; Mar. 16; v. 272; p. 468.
High-compression quick-combustion engine. W. G. Gernandt. No. 1,359,498; Nov. 23; v. 280; p. 599.
High-frequency generating system. D. G. McCaa. No. 1,360,126; Nov. 23; v. 280; p. 723.
High-pressure combustion-engine. W. G. Gernandt. No. 1,361,044; Dec. 7; v. 281; p. 13.
High pressures, Apparatus for producing. R. Berrenberg. No. 1,346,165; July 13; v. 276; p. 226.
High-speed jack. J. C. Kopf. No. 1,329,665; Feb. 3; v. 271; p. 60.
High-temperatures, Apparatus for. F. A. Fahrenwald. No. 1,357,549; Nov. 2; v. 280; p. 65.
High-tension discharge apparatus. G. D. Rogers. (Reissue.) No. 14,896; June 22; v. 275; p. 772.
High-tension switch. C. J. Fortin. No. 1,334,848; Mar. 23; v. 272; p. 664.
High-voltage transformer. S. E. Johannesen. No. 1,337,915; Apr. 20; v. 273; p. 554.
Highway-crossing signal. O. Brown. No. 1,348,696; Aug. 3; v. 277; p. 110.

Digitized by Google

Highway danger-signal. C. G. Fisher. No. 1,360,203; Nov. 23; v. 280; p. 738.
Highway-signal. J. H. Gourley. No. 1,356,276; Oct. 19; v. 279; p. 452.
Highway-track. C. T. Eldridge. No. 1,332,820; Mar. 2; v. 272; p. 128.
Hinge. J. B. Bradley. No. 1,344,479; June 22; v. 275; p. 744.
Hinge. E. D. Bump. No. 1,340,151; May 18; v. 274; p. 415.
Hinge. W. J. Caldwell. No. 1,330,680; Feb. 10; v. 271; p. 280.
Hinge. R. W. Crane. No. 1,350,360; Aug. 24; v. 277; p. 605.
Hinge. T. W. Hickey. No. 1,337,780; Apr. 13; v. 278; p. 264.
Hinge. A. R. Hosier. No. 1,327,431; Jan. 6; v. 270; p. 102.
Hinge. R. W. Hubbard. No. 1,346,029; July 6; v. 276; p. 139.
Hinge. F. Kostlan. No. 1,341,374; May 25; v. 274; p. 719.
Hinge. U. G. McQueen. No. 1,341,063; May 25; v. 274; p. 659.
Hinge. G. W. Nelson. No. 1,362,130; Dec. 14; v. 281; p. 277.
Hinge. J. J. Newman. No. 1,354,508; Oct. 5; v. 279; p. 12.
Hinge. A. M. Nickol and C. T. Schein. No. 1,329,059; Jan. 27; v. 270; p. 536.
Hinge. L. B. Shelton. No. 1,334,563; Mar. 23; v. 272; p. 610.
Hinge. L. Simmons. No. 1,332,768; Mar. 2; v. 272; p. 118.
Hinge. J. Soss. No. 1,335,400; Mar. 30; v. 272; p. 827.
Hinge. J. Soss. No. 1,338,260; Apr. 27; v. 273; p. 688.
Hinge. J. Soss. (Reissue.) No. 14,899; June 22; v. 275; p. 778.
Hinge. C. J. Soss. No. 1,363,370; Dec. 28; v. 281; p. 610.
Hinge. J. Soss. No. 1,363,371; Dec. 28; v. 281; p. 610.
Hinge. J. Soss. No. 1,363,372; Dec. 28; v. 281; p. 610.
Hinge. A. J. Stretch. No. 1,348,598; Aug. 3; v. 277; p. 91.
Hinge. J. H. Way. No. 1,345,524; July 6; v. 276; p. 39.
Hinge. J. R. Werner. No. 1,341,690; June 1; v. 275; p. 15.
Hinge. E. E. Witter. No. 1,340,866; May 18; v. 274; p. 549.
Hinge and door fastening, Security sheath. F. Wright. No. 1,340,430; May 18; v. 274; p. 468.
Hinge and lock for steering-wheels. W. H. Appleby. No. 1,351,603; Aug. 31; v. 277; p. 911.
Hinge, Artificial-leg. R. R. Bodé. No. 1,337,817; Apr. 20; v. 278; p. 535.
Hinge, Automobile-. S. Northcott. No. 1,358,099; Nov. 9; v. 280; p. 234.
Hinge, Bag-frame. W. A. Lotz. No. 1,341,754; June 1; v. 275; p. 28.
Hinge, Barn-door. W. J. Niva. No. 1,328,583; Jan. 20; v. 270; p. 418.
Hinge, Casket-. G. R. Knight. No. 1,332,504; Mar. 2; v. 272; p. 63.
Hinge, Closet-seat. E. C. B. Judd. No. 1,332,557; Mar. 2; v. 272; p. 73.
Hinge, Cold-storage-door adjustable. A. N. Hornung. No. 1,340,862; May 18; v. 274; p. 548.
Hinge, Concealed or invisible butt-. J. H. Way. No. 1,336,174; Apr. 6; v. 273; p. 89.
Hinge construction. H. J. Gagnon. No. 1,360,284; Nov. 30; v. 280; p. 823.
Hinge, Corrugated-box. H. L. Borders and E. A. Lewis. No. 1,348,844; Aug. 10; v. 277; p. 190.
Hinge, Detachable spring-. P. Klein and H. Humphrey. No. 1,347,386; July 20; v. 276; p. 527.
Hinge, Door-. L. Neal. No. 1,330,647; Feb. 10; v. 271; p. 274.
Hinge for bureau-mirrors, Retaining-. W. F. Cartwright. No. 1,356,039; Oct. 19; v. 279; p. 405.
Hinge for closet-tops. E. J. De Guenther. No. 1,337,643; Apr. 20; v. 273; p. 502.
Hinge for desk-tops. R. M. Milligan. No. 1,343,332; June 15; v. 275; p. 453.
Hinge for doors of burial-vaults. H. Pounder. No. 1,352,379; Sept. 7; v. 278; p. 127.
Hinge for use with swing-doors, Spring-. H. J. Arnold. No. 1,334,982; Mar. 30; v. 272; p. 749.
Hinge, Gate-. J. E. Day. No. 1,358,710; Nov. 16; v. 280; p. 400.
Hinge, Gate-. G. W. Goss. No. 1,362,415; Dec. 14; v. 281; p. 332.
Hinge, Gate-. H. Laughlin. No. 1,332,851; Mar. 2; v. 272; p. 129.
Hinge, Gate. A. J. Markel. No. 1,362,634; Dec. 21; v. 281; p. 426.
Hinge, Gate-. C. L. Williams. No. 1,349,797; Aug. 17; v. 277; p. 450.
Hinge, Gravity-. A. S. Hughes. No. 1,327,045; Jan. 6; v. 270; p. 82.
Hinge, Harrow-. R. A. Andes. No. 1,342,614; June 8; v. 275; p. 248.
Hinge-lock. P. N. Landine. No. 1,348,813; Aug. 3; v. 277; p. 131.
Hinge, Lubricated. F. Hernandez y Perez. No. 1,338,251; Apr. 27; v. 273; p. 687.
Hinge or hanger. J. G. Brooks. No. 1,352,782; Sept. 14; v. 278; p. 244.
Hinge pin locking means. J. F. Rowley. No. 1,356,660; Oct. 26; v. 279; p. 574.
Hinge, Sash-. C. Stover. No. 1,335,999; Apr. 6; v. 273; p. 56.
Hinge, Sliding. L. B. Boyce. No. 1,362,837; Dec. 21; v. 281; p. 466.
Hinge, Spring-. K. B. Arthur. No. 1,332,591; Mar. 2; v. 272; p. 80.
Hinge, Spring-. J. Kaufman. No. 1,344,538; June 22; v. 275; p. 756.
Hinge, Spring-. J. M. Shields. No. 1,327,065; Jan. 6; v. 270; p. 35.
Hinge support, Hood-. C. W. McKinley. No. 1,346,325; July 13; v. 276; p. 259.
Hinge, Trestle-. R. G. Cheshire. No. 1,327,808; Jan. 13; v. 270; p. 285.
Hinge, Wind-shield. V. E. Fisher. No. 1,331,252; Feb. 17; v. 271; p. 457.
Hinge, Windshield-. S. Rosenberg. No. 1,348,376; Aug. 3; v. 277; p. 49.
Hinge, Windshield-. E. S. Ziegler. No. 1,344,844; June 29; v. 275; p. 880.
Hinged box. F. S. Hyatt. No. 1,348,878; Aug. 10; v. 277; p. 196.
Hinged clamp. G. Potstada. No. 1,360,989; Nov. 30; v. 280; p. 960.
Hinged covers or members, Support for. F. E. Levanseler. No. 1,336,085; Apr. 6; v. 273; p. 72.
Hinged leg for folding beds. L. A. Brown. No. 1,363,715; Dec. 28; v. 281; p. 676.
Hinges, Web and barrel construction for spring-. E. Bommer. No. 1,332,456; Mar. 2; v. 272; p. 54.
Hitch. L. H. and A. F. Logan. No. 1,341,918; June 1; v. 275; p. 60.
Hitch. L. A. Thomas. No. 1,342,725; June 8; v. 275; p. 270.
Hitch, Implement-. H. P. Jonas. No. 1,360,223; Nov. 23; v. 280; p. 742.
Hitch, Multiple horse-. J. M. Barley. No. 1,357,830; Nov. 2; v. 280; p. 120.
Hitch, Multiple-team. E. A. White. No. 1,333,234; Mar. 9; v. 272; p. 252.
Hitch, Safety-. R. O. Junek. No. 1,344,899; June 29; v. 275; p. 890.
Hitch, Safety-. R. H. Pogue. No. 1,344,818; June 29; v. 275; p. 875.
Hitch, Safety tractor-. D. F. Londt. No. 1,347,346; July 20; v. 276; p. 519.
Hitch, Tractor-. M. Holcser. No. 1,327,617; Jan. 13; v. 270; p. 199.
Hitch, Tractor-. V. Matthews. No. 1,336,474; Apr. 13; v. 273; p. 205.
Hitch, Tractor-. S. H. Phelps. No. 1,358,392; Nov. 9; v. 280; p. 292.
Hob, Combination roughing and finishing. C. G. Olson and N. Trbojevich. No. 1,343,276; June 15; v. 275; p. 442.
Hobby-horse or similar article. S. Herzog. No. 1,338,448; Apr. 27; v. 273; p. 723.
Hobs, Producing. C. G. Olson. No. 1,357,815; Nov. 2; v. 280; p. 117.
Hockey-stick. N. T. Fogg. No. 1,338,860; May 4; v. 274; p. 39.
Hoe. R. N. Moore. No. 1,360,775; Nov. 30; v. 280; p. 919.
Hoe and spade, Combination. Z. T. Blackman. No. 1,344,256; June 22; v. 275; p. 699.
Hog catcher and carrier. E. T. Molyneux. No. 1,359,905; Nov. 23; v. 280; p. 680.
Hoe, extension-marker, and weeder, Combination. J. R. Randall. No. 1,339,222; May 4; v. 274; p. 106.
Hog-feeder. J. W. Unger and H. Lahann. No. 1,355,435; Oct. 12; v. 279; p. 247.
Hoe, Garden-. H. B. Wilson. No. 1,331,734; Feb. 24; v. 271; p. 568.
Hoe, Machine-. R. R. Slipp. No. 1,346,265; July 13; v. 276; p. 247.
Hoe with knife attachment. D. Neuman. No. 1,328,537; Jan. 20; v. 270; p. 409.
Hoeing-machine, Automatic. C. L. Kennedy. No. 1,336,299; Apr. 6; v. 273; p. 112.
Hoes while sharpening same, Tool for holding. H. E. Wiggs. No. 1,349,178; Aug. 10; v. 277; p. 255.
Hog-beater-shaft attachment. F. G. Carpenter. No. 1,336,887; Apr. 13; v. 273; p. 284.
Hog-box. W. A. D'Egilbert and B. Garland. No. 1,348,093; July 27; v. 276; p. 725.
Hog catcher and turner. J. F. Block. No. 1,342,893; June 8; v. 275; p. 304.
Hog-cholera serum, Producing refined. J. Reichel. No. 1,335,986; Apr. 6; v. 273; p. 53.
Hog-cholera virus, Artificial cultivation of. F. Proescher. No. 1,335,318; Mar. 23; v. 272; p. 563.
Hog-feeder. C. Burnett. No. 1,344,789; June 29; v. 275; p. 870.

Digitized by Google

Hog-feeder. J. H. Winters. No. 1,340,096; May 11; v. 274; p. 346.
Hog-holder. A. B. Johnson and V. Green. No. 1,343,213; June 15; v. 275; p. 431.
Hog-holding device. H. M. Trout. No. 1,343,596; June 15; v. 275; p. 505.
Hog-ring. L. Nigg. No. 1,361,541; Dec. 7; v. 281; p. 114.
Hog-scraping machines, Beater for. F. v. Brecht and H. W. Toutz. No. 1,352,576; Sept. 14; v. 278; p. 202.
Hog-trough, Sanitary non-freezing. A. E. Todd. No. 1,329,939; Feb. 3; v. 271; p. 111.
Hog-waterer. A. B. Fullerton. No. 1,359,885; Nov. 23; v. 280; p. 676.
Hog-waterer. L. C. McCartney. No. 1,341,919; June 1; v. 275; p. 60.
Hog-waterer. J. A. Welch. No. 1,333,519; Mar. 9; v. 272; p. 306.
Hog-waterer. M. V. Widhelm. No. 1,350,629; Aug. 24; v. 277; p. 658.
Hog-watering fountain. L. C. McCartney. No. 1,341,920; June 1; v. 275; p. 60.
Hog-watering trough, Automatic vacuum. J. H. Wickstrom. No. 1,359,852; Nov. 23; v. 280; p. 669.
Hogs, Device for catching and holding. W. L. Barlow. No. 1,353,376; Sept. 21; v. 278; p. 419.
Hogpen. E. A. Peters and J. T. Welhoefer. No. 1,337,262; Apr. 20; v. 273; p. 430.
Hogshead or barrel, Collapsible. C. W. Floyd. No. 1,339,749; May 11; v. 274; p. 281.
Hoist. H. A. Curtis. No. 1,357,150; Oct. 26; v. 279; p. 670.
Hoist. E. Y. Moore. No. 1,348,034; July 27; v. 276; p. 713.
Hoist. E. C. Wilson. No. 1,341,957; June 1; v. 275; p. 68.
Hoist, Automatic traction-. C. P. Ross. No. 1,352,632; Sept. 14; v. 278; p. 213.
Hoist, Collapsible. R. E. Manley. No. 1,354,501; Oct. 5; v. 279; p. 11.
Hoist control. A. J. Nicht, Jr. No. 1,340,240; May 18; v. 274; p. 431.
Hoist-control system. R. C. Newhouse. No. 1,331,780; Feb. 24; v. 271; p. 576.
Hoist, Dump-body. W. C. Kern and W. Young. No. 1,328,837; Jan. 27; v. 270; p. 494.
Hoist, Dumping-wagon. G. W. Lally. No. 1,355,763; Oct. 12; v. 279; p. 311.
Hoist, Electric. S. H. Libby. No 1,347,785; July 27; v. 276; p. 663.
Hoist, Electric. F. L. Stone. No. 1,347,803; July 20; v. 276; p. 511.
Hoist-equalizer. A. S. Anderson. No. 1,337,111; Apr. 16; v. 273; p. 327.
Hoist, Hand-operated dump-body. W. E. Denny. No. 1,357,279; Nov. 2; v. 280; p. 15.
Hoist, Hydraulic. F. Joerns. No. 1,353,244; Sept. 21; v. 278; p. 394.
Hoist, Shock-. E. W. Burgess. No. 1,345,068; June 29; v. 275; p. 922.
Hoist, Shock-. E. W. Burgess. No. 1,345,069; June 29; v. 275; p. 922.
Hoists, Pivoted gate for skip-. T. F. Webster. No. 1,359,212; Nov. 16; v. 280; p. 497.
Hoists, Reduced-spaced trip for. D. F. Lepley. No. 1,358,378; Nov. 9; v. 280; p. 289.
Hoists, Safety device for power-. A. Levedahl No 1,360,652; Nov. 30; v. 280; p. 895.
Hoisting and conveying apparatus. H. Weickel. No. 1,351,882; Sept. 7; v. 278; p. 84.
Hoisting and conveying machine. E. W. Taylor. No. 1,327,071; Jan. 6; v. 270; p. 36.
Hoisting and conveying machine, Power. I. Ferguson. No. 1,343,966; June 22; v. 275; p. 648.
Hoisting and displaying device. P. Light. No. 1,337,237; Apr. 20; v. 273; p. 425.
Hoisting and loading mechanism. M. J. Reynolds. No. 1,337,667; Apr. 20; v. 273; p. 506.
Hoisting apparatus. H. K. Burch. No. 1,334,220; Mar. 16; v. 272; p. 498.
Hoisting apparatus. C. E. G. Schoenknecht. No. 1,361,909; Dec. 14; v. 281; p. 232.
Hoisting apparatus and controlling means therefor. C. Zetterlund. No. 1,339,253; May 4; v. 274; p. 111.
Hoisting apparatus, Controller for. T. S. Watson. No. 1,358,128; Nov. 9; v. 280; p. 239.
Hoisting apparatus, Selector for automatic. M. B. McLauthlin and A. K. Tylee. No. 1,341,143; May 25; v. 274; p. 674.
Hoisting-block. F. E. Coates. No. 1,328,717; Jan. 20; v. 270; p. 442.
Hoisting device. A. L. Nyblad. No. 1,327,876; Jan. 13; v. 270; p. 247.
Hoisting device. J. P. O'Bryan. No. 1,329,107; Jan. 27; v. 270; p. 545.
Hoisting-hook. N. C. Ingalls. No. 1,341,427; May 25; v. 274; p. 729.
Hoisting-jack, Portable. J. B. Blow. No. 1,358,612; Nov. 9; v. 280; p. 336.
Hoisting machinery, Automatic control mechanism for. D. G. Stafford. No. 1,340,301; May 18; v. 274; p. 442.
Hoisting mechanism. J. C. Bonner. No. 1,358,512; Nov. 9; v. 280; p. 316.
Hoisting mechanism. J. Dolan. No. 1,335,782; Apr. 6; v. 273; p. 15.
Hoisting mechanism. J. H. Donat. No. 1,333,064; Mar. 9; v. 272; p. 221.
Hoisting mechanism. M. L. Senderling. No. 1,355,776; Oct. 12; v. 279; p. 275.
Hoisting-tackle, Portable hanger for. T. Patterson. No. 1,343,641; June 15; v. 275; p. 514.
Holdback. R. Tallon. No. 1,342,724; June 8; v. 275; p. 270.
Holddown appliance. R. B. Stipes and J. De Frain. No. 1,346,387; July 13; v. 276; p. 270.
Holder. O. C. Hibarger. No. 1,360,215; Nov. 3; v. 280; p. 741.
Holder. S. Jones. No. 1,345,012; June 29; v. 275; p. 911.
Holder. E. McCallum. No. 1,342,853; June 8; v. 275; p. 296.
Holder and strainer, Combination. C. Stern. No. 1,336,491; Apr. 13; v. 278; p. 208.
Holder-on. A. Hunter. No. 1,341,370; May 25; v. 274; p. 718.
Holding device for one-armed persons. C. Young. No. 1,343,606; June 15; v. 275; p. 507.
Hole-closure. B. D. Horton. No. 1,345,489; July 6; v. 276; p. 32.
Holes to be bored, Means for accurately locating the positions of. W. J. Winkelman. No. 1,330,225; Feb. 10; v. 271; p. 196.
Hollow articles from forms or cores, Method of and apparatus for stripping. W. G. Lerch. No. 1,330,595; Feb. 10; v. 271; p. 265.
Hollow bodies, Making. W. F. Egan. No. 1,349,372; Aug. 10; v. 277; p. 294.
Homologue of tropin and producing same. E. Müller. No. 1,352,082; Sept. 7; v. 278; p. 71.
Homopolar machines, Cooling system for. R. V. Morse. No. 1,327,350; Jan. 6; v. 270; p. 87.
Hone-holder. J. A. Colbert. No. 1,340,751; May 18; v. 274; p. 528.
Honey, Apparatus for heating and ripening. H. A. Mitchell. No. 1,327,166; Jan. 6; v. 270; p. 54.
Honey, Centrifugal apparatus for extracting. G. S. Baird. No. 1,334,585; Mar. 23; v. 272; p. 613.
Honey-sections, Section-closer and foundation-fastener for. P. T. Illig. No. 1,354,107; Sept. 28; v. 278; p. 610.
Honeycomb and making same, Artificial. G. M. MacDonald. No. 1,360,426; Nov. 30; v. 280; p. 850.
Honeycomb-foundation machine. H. C. Blanchard. No. 1,328,813; Jan. 27; v. 270; p. 489.
Hood. J. F. O'Byrne. No. 1,333,214; Mar. 9; v. 272; p. 249.
Hood-fastener. J. A. Stewart. No. 1,358,123; Nov. 9; v. 280; p. 238.
Hood-lock, Inside. D. D. Myers. No. 1,361,169; Dec. 7; v. 281; p. 37.
Hood, Valve-stem-protector. W. P. Lowther. No. 1,332,847; Mar. 2; v. 272; p. 33.
Hoof-pad. M. M. Sherwood. No. 1,357,909; Nov. 2; v. 280; p. 135.
Hoof-protector. W. J. Kent. No. 1,338,986; May 4; v. 274; p. 62.
Hoof-trimming machine. S. J. Stokes. No. 1,337,571; Apr. 20; v. 273; p. 488.
Hook: *See*—

Barrel-hook.	Lighting-fixture bowl-hook.
Brassière-hook.	Lacing-hook.
Button-hook.	Latch-hook.
Cable-hook.	Lifting or sling hook.
Casing-hook.	Logging-hook.
Chair-hook.	Lubricating-hook.
Clasp-hook.	Meat-hook.
Clothes-hook.	Mud-chain hook.
Clothesline-hook.	Printer's plate-hook.
Coupling-hook.	Register-hook.
Crochet-hook.	Registering-hook.
Curtain-hook.	Release-hook.
Draft-hook.	Rope-hook.
Drapery-hook.	Safety or lock hook.
Dress-hook.	Seat-hook.
Fishhook.	Shoe-lace hook.
Gate-hook.	Snap-hook.
Ham-hook.	Spring-hook.
Harness-hook.	Tire-chain snap-hook.
Hoisting-hook.	Trip-hook.

Hook. P. Clare. No. 1,353,026; Sept. 14; v. 278; p. 292.
Hook. C. D. Schmidt. No. 1,339,004; May 4; v. 274; p. 65.
Hook and eye. E. N. Gaillard. No. 1,340,334; May 18; v. 274; p. 449.
Hook-and-eye dress-fastening. F. Hawkins. No. 1,359,062; Nov. 16; v. 280; p. 469.
Hook-and-eye fastener. S. W. Yeats. No. 1,340,858; May 18; v. 274; p. 547.
Hook and shackle for pulley-blocks. J. H. Flynn, Jr. No. 1,363,401; Dec. 21; v. 281; p. 615.
Hook and wire attaching machine. G. O. Page. No. 1,333,994; Mar. 16; v. 272; p. 456.
Hook, Butt-. W. G. Vasey. No. 1,336,666; Apr. 13; v. 278; p. 241.

Digitized by Google

Hook for use with chains. C. D. Schmidt. No. 1,339,986; May 11; v. 274; p. 326.
Hook or stud. C. Munter. No. 1,345,621; July 6; v. 276; p. 57.
Hook, Safety or lock. C. Hokanson. No. 1,363,878; Dec. 28; v. 281; p. 707.
Hook-setting machine. P. R. Glass. No. 1,356,760; Oct. 26; v. 279; p. 594.
Hook-setting machine, Lacing-. A. R. Havener. No. 1,327,911; Jan. 13; v. 270; p. 254.
Hooks, Safety locking device for. G. C. Rohrbach. No. 1,356,830; Oct. 26; v. 279; p. 608.
Hooks, Sewing on garment-. J. Blasi. No. 1,327,191; Jan. 6; v. 270; p. 59.
Hooks to fabrics, Attaching garment-. W. L. Barron. No. 1,354,795; Oct. 5; v. 279; p. 70.
Hoop: *See*—
Cheese-hoop. Train-order hoop.
Silo-hoop.
Hoop-forming machine. A. J. Buhts. No. 1,354,951; Oct. 5; v. 279; p. 100.
Hoop-making apparatus. A. H. Burkeman. No. 1,355,649; Oct. 12; v. 279; p. 288.
Hoop-roller. C. W. Russell. No. 1,348,745; Aug. 3; v. 277; p. 118.
Hoop-rolling device. J. A. Moore. No. 1,353,778; Sept. 21; v. 278; p. 500.
Hoop-rolling device. J. S. Whaley. No. 1,361,944; Dec. 14; v. 281; p. 240.
Hopper. C. L. Aygarn. No. 1,356,587; Oct. 26; v. 279; p. 560.
Hopper. T. F. Fehrle. No. 1,346,310; July 13; v. 276; p. 256.
Hopper. H. S. Gardner. No. 1,359,161; Nov. 16; v. 280; p. 487.
Hopper, Agitating coal-feeding. R. S. Riley. No. 1,360,798; Nov. 30; v. 280; p. 923.
Hopper, Dumping-. A. P. Lee. No. 1,334,913; Mar. 23; v. 272; p. 677.
Hopper for feed-grinders, Supplementary. M. F. Williams. No. 1,359,215; Nov. 16; v. 280; p. 498.
Hopper for filling cartons with raisins, &c. H. H. Taylor. No. 1,327,644; Jan. 13; v. 270; p. 204.
Hopper, Movable loading-. A. P. Lee. No. 1,342,919; June 8; v. 275; p. 309.
Hopper, Poultry-feed. E. J. Brown. No. 1,335,424; Mar. 30; v. 272; p. 831.
Hopper, Proportioning and dividing. J. L. Hiller. No. 1,354,747; Oct. 5; v. 279; p. 59.
Hopper, Sulfur-feed. H. S. Clerc. No. 1,332,106; Feb. 24; v. 271; p. 638.
Hoppers, Controlling device for charging-. R. Leumann. No. 1,331,017; Feb. 17; v. 271; p. 414.
Hoppers, Oiling. F. H. Van Houten, Jr. No. 1,328,308; Jan. 20; v. 270; p. 365.
Hoppers, Rail construction for rolling. A. P. Lee. No. 1,349,838; Aug. 17; v. 277; p. 458.
Hopple. B. Hanlon. No. 1,341,900; June 1; v. 275; p. 56.
Hopple, Veterinary. T. Olinger. No. 1,357,415; Nov. 2; v. 280; p. 40.
Horizontal-piercing press. R. S. Smith. No. 1,357,358; Nov. 2; v. 280; p. 30.
Horn. L. G. Hartdorn. No. 1,339,559; May 11; v. 274; p. 245.
Horn. G. F. Long. No. 1,328,772; Jan. 20; v. 270; p. 452.
Horn. W. Sparks. No. 1,336,594; Apr. 13; v. 273; p. 228.
Horn. G. F. Voight. No. 1,351,223; Aug. 31; v. 277; p. 835.
Horn and hoof trimmer. J. M. Miller. No. 1,330,716; Feb. 10; v. 271; p. 287.
Horn, Automobile-. H. T. Brinks. No. 1,333,703; Mar. 16; v. 272; p. 402.
Horn, Automobile-. M. F. Fitzgerald. No. 1,353,575; Sept. 21; v. 278; p. 460.
Horn, Automobile-. P. B. Hartman. No. 1,351,904; Sept. 7; v. 278; p. 38.
Horn, Automobile or motorcycle. R. H. Manson. No. 1,328,093; Jan. 13; v. 270; p. 288.
Horn, Diaphragm-. H. S. A. Rydberg. No. 1,337,162; Apr. 13; v. 273; p. 336.
Horn, Electric. B. Ames. No. 1,351,729; Sept. 7; v. 278; p. 3.
Horn-extension support. P. Kruse. No. 1,362,805; Dec. 21; v. 281; p. 461.
Horn for bicycles, boats, &c., Mechanically-actuated. G. J. Seiss. No. 1,344,724; June 29; v. 275; p. 857.
Horn, Manufacture of hollow articles from. M. Segre. No. 1,333,188; Mar. 9; v. 272; p. 244.
Horn, Mechanically-actuated. G. J. Seiss. No. 1,348,377; Aug. 3; v. 277; p. 49.
Horn, Mechanically-operated. G. J. Seiss. No. 1,329,275; Jan. 27; v. 270; p. 576.
Horn, Phonograph-. E. C. Cook. No. 1,329,377; Feb. 3; v. 271; p. 7.
Horn, Phonograph-. E. A. Leet. No. 1,361,164; Dec. 7; v. 281; p. 36.
Horn, Recording-. B. R. Seabrook. No. 1,358,883; Nov. 16; v. 280; p. 436.
Horn-shaping device. R. G. Weston. No. 1,334,200; Mar. 16; v. 272; p. 494.
Horn, Signal-. E. Anfiero. No. 1,333,585; Mar. 9; v. 272; p. 319.
Horse-collar sweat-pad. A. Janicki. No. 1,338,931; May 4; v. 274; p. 52.
Horse-currying device. J. Juricich. No. 1,335,441; Mar. 30; v. 272; p. 835.
Horse-detacher. P. Stewart. No. 1,354,067; Sept. 28; v. 278; p. 602.
Horse-detacher. R. T. Harp. No. 1,354,186; Sept. 28; v. 278; p. 626.
Horse-detacher and vehicle-lock. O. L. Jyrkas. No. 1,338,138; Apr. 27; v. 273; p. 665.
Horse, Rocking-. J. W. Bellairs. No. 1,339,493; May 11; v. 274; p. 232.
Horse, Rocking-. W. Dickinson. No. 1,348,785; Aug. 3; v. 277; p. 126.
Horse, Stitching-. W. M. Conover. No. 1,331,487; Feb. 24; v. 271; p. 521.
Horseshoe. R. Ariuchi. No. 1,342,615; June 8; v. 275; p. 248.
Horseshoe. E. H. Blondeau. No. 1,328,708; Jan. 20; v. 270; p. 440.
Horseshoe. G. J. Capewell. No. 1,337,194; Apr. 20; v. 273; p. 417.
Horseshoe. G. Carracino. No. 1,335,555; Mar. 30; v. 272; p. 856.
Horseshoe. A. S. Crawford. No. 1,327,523; Jan. 6; v. 270; p. 120.
Horseshoe. E. G. Crump. No. 1,334,488; Mar. 23; v. 272; p. 586.
Horseshoe. T. S. Field. No. 1,347,021; July 20; v. 276; p. 455.
Horseshoe. J. Grabowski. No. 1,340,764; May 18; v. 274; p. 530.
Horseshoe. A. Haden. No. 1,347,630; July 27; v. 276; p. 632.
Horseshoe. J. M. Horn. No. 1,357,399; Nov. 2; v. 280; p. 38.
Horseshoe. E. C. Kenny. No. 1,349,888. Aug. 17; v. 277; p. 468.
Horseshoe. M. C. Leinweber. No. 1,351,769; Sept. 7; v. 278; p. 10.
Horseshoe. A. J. McCormack. No. 1,327,716; Jan. 13; v. 270; p. 218.
Horseshoe. A. E. Mickelson. No. 1,343,874; June 15; v. 275; p. 561.
Horseshoe. H. A. Siprelle. No. 1,334,410; Mar. 23; v. 272; p. 581.
Horseshoe. G. Weliki. No. 1,357,930; Nov. 2; v. 280; p. 139.
Horseshoe antislipping attachment. L. Schwoyer. No. 1,327,493; Jan. 6; v. 270; p. 114.
Horseshoe-blanks, Machine for electrically welding the calk or toe-piece upon. C. M. Garvin. No. 1,329,520; Feb. 3; v. 271; p. 34.
Horseshoe-calk. E. Bloum. No. 1,327,853; Jan. 13; v. 270; p. 248.
Horseshoe-calk. S. J. Porter. No. 1,361,744; Dec. 7; v. 281; p. 153.
Horseshoe-calk attachment. H. H. Landis. No. 1,334,705; Mar. 23; v. 272; p. 635.
Horseshoe-calk wrench. H. P. Jorgensen. No. 1,350,504; Aug. 24; v. 277; p. 634.
Horseshoe, Cushion-. H. Paar. No. 1,338,584; Apr. 27; v. 273; p. 749.
Horseshoe-fastening. A. M. White. No. 1,332,089; Feb. 24; v. 271; p. 635.
Horseshoe-making machine. C. F. V. Flint. No. 1,349,506; Aug. 10; v. 277; p. 320.
Horseshoes, Process and instrumentality for making. T. H. Freeman. No. 1,360 204; Nov. 23; v. 280; p. 738.
Horseshoeing device. B. A. Crumley. No. 1,332,809; Mar. 2; v. 272; p. 121.
Horseshoeing-jack. I. Ilieff. No. 1,330,807; Feb. 17; v. 271; p. 372.
Horseshoeing-machine. S. J. Stokes. No. 1,331,594; Feb. 24; v. 271; p. 541.
Horsetail-holder. H. Liechty. No. 1,343,147; June 8; v. 275; p. 354.
Hose. H. W. Goodall. No. 1,357,701; Nov. 2; v. 280; p. 94.
Hose and garment supporter. J. E. Lindsay. No. 1,343,514; June 15; v. 275; p. 489.
Hose and pipe coupling. C. W. Barnes. No. 1,336,123; Apr. 6; v. 273; p. 80.
Hose appliance. F. J. Imbach. No. 1,331,923; Feb. 24; v. 271; p. 603.
Hose, Attachment for. J. A. Fulton. No. 1,363,967; Dec. 28; v. 281; p. 725.
Hose-clamp. E. D. Blackburn. No. 1,344,433; June 22; v. 275; p. 735.
Hose-clamp. J. M. Bryson. No. 1,356,904; Oct. 26; v. 279; p. 622.
Hose-clamp. I. Cooper. No. 1,340,937; May 25; v. 274; p. 634.
Hose-clamp. A. Levedahl. No. 1,354,669; Oct. 5; v. 279; p. 45.
Hose-clamp. A. Levedahl. No. 1,363,329; Dec. 28; v. 281; p. 602.
Hose-clamp and making same. I. Cooper. No. 1,340,938; May 25; v. 274; p. 634.

Digitized by Google

Hose connection to nipples. E. C. Mitchell. No. 1,346,330; July 13; v. 276; p. 260.
Hose-coupling. O. C. Brandt. No. 1,333,791; Mar. 16; v. 272; p. 418.
Hose-coupling. L. V. Claire. No. 1,356,126; Oct. 19; v. 279; p. 423.
Hose-coupling. A. A. Ewald. No. 1,361,758; Dec. 7; v. 281; p. 156.
Hose-coupling. H. J. Fitzpatrick. No. 1,363,968; Dec. 28; v. 281; p. 724.
Hose coupling, Air-. C. A. Garzoni. No. 1,328,373; Jan. 20; v. 270; p. 378.
Hose-coupling. H. R. Gilson. No. 1,348,967; June 22; v. 275; p. 643.
Hose-coupling. F. Hachmann. No. 1,354,480; Oct. 5; v. 279; p. 7.
Hose-coupling. A. A. Hart. No. 1,339,620; May 11; v. 274; p. 257.
Hose-coupling. P. J. Heininger. No. 1,361,856; Dec. 14; v. 281; p. 222.
Hose-coupling. J. P. Lavigne. No. 1,349,284; Aug. 10; v. 277; p. 277.
Hose-coupling. R. S. Peirce. No. 1,357,820; Nov. 2; v. 280; p. 118.
Hose-coupling. E. N. Roth. No. 1,346,424; July 13; v. 276; p. 278.
Hose-coupling. E. N. Roth. No. 1,346,425; July 13; v. 276; p. 278.
Hose-coupling. A. Rubin. No. 1,343,853; June 15; v. 275; p. 557.
Hose-coupling. E. A. Russell and S. P. Harriman. No. 1,346,421; July 13; v. 276; p. 277.
Hose-coupling. E. A. Russell and S. P. Harriman. No. 1,346,422; July 13; v. 276; p. 277.
Hose-coupling. E. A. Russell and S. P. Harriman. No. 1,346,423; July 13; v. 276; p. 278.
Hose-coupling. W. E. Sanderson. No. 1,360,588; Nov. 30; v. 280; p. 882.
Hose-coupling. E. A. Schreiber. No. 1,350,083; Aug. 17; v. 277; p. 505.
Hose-coupling. M. C. Sharpnack. No. 1,399,141; May 4; v. 274; p. 92.
Hose coupling, Air-. C. M. Brown. No. 1,340,820; May 18; v. 274; p. 540.
Hose coupling, Automatic air and steam. L. Le Baron and A. C. Harrell. No. 1,359,395; Nov. 16; v. 280; p. 533.
Hose-coupling, Detachable. J. Jorgenson. No. 1,335,582; Mar. 30; v. 272; p. 861.
Hose coupling lock, Air-. R. W. Brower. No. 1,354,643; Oct. 5; v. 279; p. 39.
Hose coupling, nipples, bands, &c., Apparatus for applying and removing. A. J. Sarjeant. No. 1,342,763; June 8; v. 275; p. 278.
Hose-coupling washer. F. Hachmann. No. 1,329,398; Feb. 3; v. 271; p. 10.
Hose-drying apparatus. F. Dubois. No. 1,332,826; Mar. 2; v. 272; p. 28.
Hose-grip. W. D. Furey. No. 1,330,794; Feb. 17; v. 271; p. 370.
Hose-guard. S. A. Woodruff. No. 1,354,934; Oct. 5; v. 279; p. 97.
Hose holder, Garden-. W. W. Burnwatt and G. W. Hauschild. No. 1,337,541; Apr. 20; v. 273; p. 483.
Hose-mender. F. Hachmann. No. 1,329,121; Jan. 27; v. 270; p. 548.
Hose-mender. F. Hachmann. No. 1,358,633; Nov. 9; v. 280; p. 340.
Hose-nozzle. A. B. Mitchell. No. 1,363,144; Dec. 21; v. 281; p. 526.
Hose or pipe connection. V. E. Lindfors. No. 1,331,715; Feb. 24; v. 271; p. 564.
Hose-rack, Cabinet. C. and R. Nuhring. No. 1,354,680; Oct. 5; v. 279; p. 47.
Hose-reel. J. E. Anderson. No. 1,350,205; Aug. 17; v. 277; p. 529.
Hose-reel. E. M. Hamner. No. 1,350,499; Aug. 24; v. 277; p. 698.
Hose-reel. B. H. Montgomery and J. B. B. Dingwall. No. 1,354,504; Oct. 5; v. 279; p. 11.
Hose-reel. G. L. Perrine. No. 1,339,785; May 11; v. 274; p. 288.
Hose-supporter. L. H. Atwell. No. 1,360,072; Nov. 23; v. 280; p. 712.
Hose-supporter. E. Bettinger. No. 1,362,556; Dec. 14; v. 281; p. 360.
Hose-supporter. R. J. Cavalier. No. 1,359,672; Nov. 23; v. 280; p. 633.
Hose-supporter. J. W. Crouch. No. 1,342,666; June 8; v. 275; p. 258.
Hose-supporter. T. F. Hancock. No. 1,346,648; July 13; v. 276; p. 323.
Hose-supporter. C. J. Hausen. No. 1,361,793; Dec. 8; v. 281; p. 162.
Hose-supporter. J. Hawkins. No. 1,335,334; Mar. 30; v. 272; p. 815.
Hose-supporter. J. J. Hilemon. No. 1,333,417; Mar. 9; v. 272; p. 286.
Hose-supporter. D. M. Hynds. No. 1,361,865; Dec. 14; v. 281; p. 224.
Hose-supporter. W. M. Jameson. No. 1,345,193; June 29; v. 275; p. 946.
Hose-supporter. L. John. No. 1,338,733; May 4; v. 274; p. 16.
Hose-supporter. A. D. Peralta. No. 1,348,045; July 27; v. 276; p. 715.
Hose-supporter. H. Sacks. No. 1,336,053; Apr. 6; v. 273; p. 66.
Hose-supporter. W. C. Ward. No. 1,358,902; Nov. 16; v. 280; p. 439.
Hose-supporter. W. F. Watson. No. 1,340,745; May 18; v. 274; p. 527.
Hosiery, Apparatus for drying. F. L. Bickel. No. 1,344,612; June 29; v. 275; p. 836.
Hosiery-forms, Heel shaping and drying attachment for. T. H. De Lacy. No. 1,355,317; Oct. 12; v. 279; p. 225.
Hosiery, Garment-supporter for. F. E. Howard. No. 1,353,592; Sept. 21; v. 278; p. 463.
Hosiery, Method of and machine for ornamenting. W. L. Barron. No. 1,361,218; Dec. 7; v. 281; p. 47.
Hosiery-tipping plate. F. Curtin. No. 1,349,410; Aug. 10; v. 277; p. 302.
Hot-air furnace. S. H. Dent. No. 1,361,371; Dec. 7; v. 281; p. 78.
Hot-air furnace. W. J. Doyle and J. J. Wollenhaupt. No. 1,340,134; May 11; v. 274; p. 355.
Hot-air heater. J. W. Fiebet. No. 1,352,804. Sept. 14; v. 278; p. 248.
Hot-air heating system. D. Handelan. No. 1,336,901; Apr. 13; v. 273; p. 287.
Hot-air mixer. J. H. Ingraham. No. 1,338,114; Mar. 9; v. 272; p. 230.
Hot-air motor. L. D. Freeland. No. 1,342,501; June 1; v. 275; p. 226.
Hot-air motor. I. I. Wilson. No. 1,356,578; Oct. 26; v. 279; p. 558.
Hot and cold air register, Combined. A. G. Scherer. No. 1,329,802; Feb. 3; v. 271; p. 85.
Hot and cold air register, Combined. A. G. Scherer. No. 1,329,803; Feb. 3; v. 271; p. 85.
Hot and cold air register, Combined. A. G. Scherer. No. 1,329,804; Feb. 3; v. 271; p. 86.
Hot appliance. H. V. Barclay. No. 1,351,986; Sept. 7; v. 278; p. 54.
Hot-chamber furnace, Double-. O. A. Colby. No. 1,347,896; July 27; v. 276; p. 685.
Hot-water boiler. W. J. Woodward. No. 1,328,608; Jan. 20; v. 270; p. 422.
Hot-water boiler or tank. C. A. Muddiman. No. 1,355,413; Oct. 12; v. 279; p. 243.
Hot-water heater. J. Fleischmann. No. 1,351,899; Sept. 7; v. 278; p. 37.
Hot-water heater. F. A. Gauger. No. 1,333,614; Mar. 16; v. 272; p. 385.
Hot-water heater. F. W. Magee. No. 1,328,682; Jan. 20; v. 270; p. 436.
Hot-water heater, Electric. R. P. Osgood. No. 1,356,581; Oct. 26; v. 279; p. 617.
Hot-water-heating system. F. T. O'Dell. No. Sept. 28; v. 278; p. 556.
Hot-water or ice bag. W. Moehle. No. 1,340,236; May 18; v. 274; p. 431.
House: *See*—
Bird-house.
Curing-house.
Dismountable house.
Doll-house.
Grain-storehouse.
Lamp-house.
Portable house.
Revolving house.
Smokehouse.
Sweet-potato-curing house.
Toy house.
Houses, Bond connection or interlock for deal. N. E. Stenberg. No. 1,334,121; Mar. 16; v. 272; p. 481.
Household article. S. Breakstone. No. 1,355,647; Oct. 12; v. 279; p. 288.
Household article. E. Erb. No. 1,353,386; Sept. 21; v. 278; p. 421.
Household article. W. A. Yonick. No. 1,330,107; Feb. 10; v. 271; p. 174.
Household pounding-block. J. F. Bower. No. 1,334,884; Mar. 23; v. 272; p. 671.
Hover. J. E. Harner. No. 1,334,868; Mar. 23; v. 272; p. 572.
Hub attachment, Auto-. A. E. Rolf. No. 1,361,496; Dec. 7; v. 281; p. 104.
Hub construction, Wheel-. J. A. Charter. No. 1,363,838; Dec. 28; v. 281; p. 700.
Hub-jack. J. P. Doran. No. 1,349,502; Aug. 10; v. 277; p. 320.
Hub, Resilient. J. Torrent, Jr. No. 1,328,858; Jan. 27; v. 270; p. 498.
Hub structure. W. R. Wilson. No. 1,330,829; Feb. 17; v. 271; p. 377.
Hubs, Making wooden wheel-. F. H. Beach. No. 1,335,039; Mar. 30; v. 272; p. 760.
Hubs, Means for securing rotary members of contractile material to metallic. P. J. R. Postel-Vinay. No. 1,354,842; Oct. 5; v. 279; p. 79.
Hull-board construction. J. E. Mitchell and D. Parks. No. 1,332,913; Mar. 9; v. 272; p. 192.
Hull-board construction. J. E. Mitchell and D. Parks. No. 1,347,031; July 27; v. 276; p. 712.
Hull-board construction. J. E. Mitchell and D. Parks. No. 1,360,132; Nov. 23; v. 280; p. 725.
Huller: *See*—
Pea-huller.
Almond-huller.

Digitized by Google

Huller, A. A. Vardell. No. 1,362,973; Dec. 21; v. 281; p. 492.
Hulling and cleaning machine. E. N. Maull. No. 1,334,708; Mar. 23; v. 272; p. 636.
Hulling-machine. J. N. Sparks. No. 1,335,465; Mar. 30; v. 272; p. 839.
Humidifier. D. M. Anderson. No. 1,334,275; Mar. 23; v. 272; p. 555.
Humidifier. C. S. Drake. No. 1,361,028; Dec. 7; v. 281; p. 9.
Humidifier. C. A. Gendron. No. 1,334,697; Mar. 23; v. 272; p. 634.
Humidifier. D. J. Pledger. No. 1,332,407; Mar. 2; v. 272; p. 45.
Humidifier. H. F. Reid. No. 1,336,860; Apr. 13; v. 273; p. 279.
Humidifier. H. M. Rogers. No. 1,329,143; Jan. 27; v. 270; p. 552.
Humidifier. H. Sackett. No. 1,352,477; Sept. 14; v. 278; p. 182.
Humidifier. L. L. Taylor. No. 1,362,649; Dec. 21; v. 281; p. 430.
Humidifier. D. H. Young. No. 1,356,846; Oct. 26; v. 279; p. 611.
Humidifier, Electrically-heated. D. H. Young. No. 1,328,068; Jan. 13; v. 270; p. 284.
Humidifiers, Electrothermogenic device for. D. H. Young. No. 1,328,069; Jan. 13; v. 270; p. 284.
Humidifying and heating systems, Hygrometer for regulating. S. W. Cramer and W. B. Hodge. No. 1,329,112; Jan. 27; v. 270; p. 546.
Humidifying apparatus. A. W. Lissauer. No. 1,333,855; Mar. 16; v. 272; p. 430.
Humidifying apparatus. V. W. McAdams. No. 1,343,873; June 15; v. 275; p. 561.
Humidifying device. W. M. Fulton. No. 1,338,916; May 4; v. 274; p. 49.
Humidity-controlling means, Relative-. C. A. Cutler. No. 1,340,939; May 25; v. 274; p. 634.
Husking, snapping, and shocking device. F. Jacobs. No. 1,346,894; July 20; v. 276; p. 430.
Hydrant. G. A. Owen. No. 1,360,436; Nov. 30; v. 280; p. 852.
Hydrant. G. H. Perry. No. 1,335,526; Mar. 30; v. 272; p. 850.
Hydrant. W. S. Snyder. No. 1,345,465; July 6; v. 276; p. 27.
Hydrant shut-off. W. N. King. No. 1,327,283; Jan. 6; v. 270; p. 75.
Hydrant, Water-. W. F. Whitmore. No. 1,340,352; May 18; v. 274; p. 452.
Hydrate of alumina and similar gelatinous precipitates from their salts, Depositing. M. Buchner. No. 1,337,191; Apr. 20; v. 273; p. 417.
Hydraulic air-motor. J. A. Knowlton. No. 1,342,682; June 8; v. 275; p. 261.
Hydraulic breaking-down appliance. J. Tonge. No. 1,354,861; Oct. 5; v. 279; p. 83.
Hydraulic concentrating apparatus. W. E. Sudlow. No. 1,362,448; Dec. 14; v. 281; p. 330.
Hydraulic control for intensifiers, System of. H. P. L. Laussucq. No. 1,362,253; Dec. 14; v. 281; p. 301.
Hydraulic donkey-engine. F. E. Kenney. No. 1,340,547; May 18; v. 274; p. 489.
Hydraulic dredging apparatus. L. W. Beaven. No. 1,327,651; Jan. 13; v. 270; p. 205.
Hydraulic elevator. J. P. Oschger. No. 1,350,563; Aug. 24; v. 277; p. 646.
Hydraulic elevator, Micro-drive. F. C. Furlow. No. 1,352,742; Sept. 14; v. 278; p. 235.
Hydraulic engine. F. Lamplough. No. 1,341,328; May 25; v. 274; p. 709.
Hydraulic engine. E. A. Thompson. No. 1,328,974; Jan. 27; v. 270; p. 521.
Hydraulic-gear jack. A. W. Hilliard. No. 1,344,510; June 22; v. 275; p. 750.
Hydraulic hoists, Manifold-bracket for. C. E. Mason. No. 1,345,616; July 6; v. 276; p. 56.
Hydraulic ingredient and making same. F. M. Meyer. No. 1,343,929; June 22; v. 275; p. 636.
Hydraulic installation. C. B. Flory. No. 1,358,070; Nov. 9; v. 280; p. 228.
Hydraulic intensifier, Steam. T. W. Hand. No. 1,331,991; Feb. 24; v. 271; p. 617.
Hydraulic intensifier, Steam. T. W. Hand. No. 1,346,198; July 13; v. 276; p. 233.
Hydraulic jack. D. E. Hennessy. No. 1,327,470; Jan. 6; v. 270; p. 109.
Hydraulic jack. A. W. Marr. No. 1,344,919; June 29; v. 275; p. 894.
Hydraulic jack. A. Paoli. No. 1,344,711; June 29; v. 275; p. 854.
Hydraulic mixing device. V. O. Sauer and F. C. Wegener. No. 1,341,283; May 25; v. 274; p. 701.
Hydraulic motor. G. MacFetridge. No. 1,360,965; Nov. 30; v. 280; p. 955.
Hydraulic motor. J. G. Recuero. No. 1,350,265; Aug. 17; v. 277; p. 540.
Hydraulic motor. G. Weber. No. 1,354,231; Sept. 28; v. 278; p. 635.
Hydraulic oil-elevator. D. R. Ingram. No. 1,355,606; Oct. 12; v. 279; p. 280.
Hydraulic power device, Portable. H. J. Dana. No. 1,343,117; June 8; v. 275; p. 349.
Hydraulic power transmission. G. Constantinesco. No. 1,334,283; Mar. 23; v. 272; p. 557.
Hydraulic pressure to the interior of a tube being shaped by the self-hooping process, Apparatus for the application of. E. Schneider. No. 1,338,871; May 4; v. 274; p. 41.
Hydraulic process and apparatus for converting energy. H. Baudisch. No. 1,347,578; July 27; v. 276; p. 622.
Hydraulic transmission. T. E. Brown. No. 1,327,080; Jan. 6; v. 270; p. 38.
Hydraulic transmission. G. Constantinesco. No. 1,334,280; Mar. 23; v. 272; p. 556.
Hydraulic transmission. C. B. Funk. No. 1,346,086; July 6; v. 276; p. 150.
Hydraulic transmission mechanism. J. Reton. No. 1,343,749; June 15; v. 275; p. 536.
Hydraulic transmission mechanism. J. W. Rosche. No. 1,343,338; June 15; v. 275; p. 454.
Hydraulically-operated loading device. M. H. Hubback. No. 1,356,149; Oct. 19; v. 279; p. 427.
Hydro-aircraft. G. H. Curtiss. No. 1,355,736; Oct. 12; v. 279; p. 305.
Hydro-extractor. W. McChesney. No. 1,362,712; Dec. 21; v. 281; p. 442.
Hydroaero-machine. C. A. Marsh. No. 1,336,478; Apr. 13; v. 273; p. 204.
Hydroaeroplane. G. Cannistra. No. 1,332,602; Mar. 2; v. 272; p. 82.
Hydroaeroplane. M. Stupar. No. 1,358,596; Nov. 9; v. 280; p. 333.
Hydroaeroplane-rudder. M. Stupar. No. 1,354,353; Sept. 28; v. 278; p. 660.
Hydrocarbon-burner. P. B. Budai. No. 1,331,048; Feb. 17; v. 271; p. 420.
Hydrocarbon-burner. M. G. Childers. No. 1,338,853; May 4; v. 274; p. 37.
Hydrocarbon-burner. J. C. Critchett. No. 1,336,285; Apr. 6; v. 273; p. 110.
Hydrocarbon-burner. A. W. Gearhart. No. 1,355,958; Oct. 19; v. 279; p. 389.
Hydrocarbon-burner. A. Kaufman. No. 1,341,910; June 1; v. 275; p. 58.
Hydrocarbon-burner. J. A. Kenworthy. No. 1,359,176; Nov. 16; v. 280; p. 490.
Hydrocarbon-burner. G. P. Kittel. No. 1,330,685; Feb. 10; v. 271; p. 272.
Hydrocarbon-burner. R. V. Lee. No. 1,362,017; Dec. 14; v. 281; p. 255.
Hydrocarbon-burner. A. J. and W. C. Lindemann. No. 1,339,207; May 4; v. 274; p. 103.
Hydrocarbon-burner. J. Needham. No. 1,346,134; July 13; v. 276; p. 221.
Hydrocarbon-burner. C. B. Simmons. No. 1,355,704; Oct. 12; v. 279; p. 299.
Hydrocarbon-burner. V. H. Slinack. No. 1,354,856; Oct. 5; v. 279; p. 82.
Hydrocarbon-burner. J. J. St. Wrba. No. 1,347,920; July 27; v. 276; p. 690.
Hydrocarbon-burner. K. A. Stahlgren. No. 1,341,524; May 25; v. 274; p. 748.
Hydrocarbon-burner. J. Stark. No. 1,360,595; Nov. 30; v. 280; p. 884.
Hydrocarbon-burner. W. W. Todenwarth. No. 1,336,798; Apr. 13; v. 273; p. 267.
Hydrocarbon-burner. F. M. Walker. No. 1,341,688; June 1; v. 275; p. 15.
Hydrocarbon-burner. W. P. and J. H. Wynne. No. 1,330,294; Feb. 10; v. 271; p. 208.
Hydrocarbon-burner. M. S. Yeager. No. 1,353,010; Sept. 14; v. 278; p. 289.
Hydrocarbon-burner of the injection type, Liquid. A. A. Mohn. No. 1,339,709; May 11; v. 274; p. 274.
Hydrocarbon burner of the injector type, Liquid-. A. W. H. Vivian. No. 1,332,782; Mar. 2; v. 272; p. 116.
Hydrocarbon-burners to supply-pipes, Means for connecting. L. S. Chadwick. No. 1,336,423; Apr. 13; v. 273; p. 196.
Hydrocarbon compounds, Electrical apparatus for the electrochemical treatment of liquid. L. B. Cherry. No. 1,327,023; Jan. 6; v. 270; p. 27.
Hydrocarbon-engine. W. L. Shepard. No. 1,347,762; July 27; v. 276; p. 659.
Hydrocarbon-fuel burner. T. E. Worthington. No. 1,350,199; Aug. 17; v. 277; p. 528.
Hydrocarbon-fuel intakes, Heater for. C. A. Lewis. No. 1,335,843; Apr. 6; v. 273; p. 26.
Hydrocarbon fuels, Electric apparatus for heating and vaporizing. E. Saslow. No. 1,347,177; July 20; v. 276; p. 485.
Hydrocarbon-generator. M. S. Yeager. No. 1,349,932; Aug. 17; v. 277; p. 475.
Hydrocarbon generator and burner. L. S. Powell. No. 1,332,003; Feb. 24; v. 271; p. 619.
Hydrocarbon-light. A. G. Kaufman. No. 1,338,636; Apr. 27; v. 273; p. 758.
Hydrocarbon lights, Vaporizer for. A. G. Kaufman. No. 1,327,161; Jan. 6; v. 270; p. 53.
Hydrocarbon-motor. J. W. Brown. No. 1,330,934; Feb. 17; v. 271; p. 398.
Hydrocarbon-motor. H. D. Church. No. 1,327,147; Jan. 6; v. 270; p. 50.
Hydrocarbon-motor. H. D. Church. No. 1,339,496; May 11; v. 274; p. 233.

Digitized by Google

Alphabetical list of inventions—Continued.

Hydrocarbon-motor. H. D. Church. No. 1,339,497; May 11; v. 274; p. 233.
Hydrocarbon-motor. F. J. Druar. No. 1,327,148; Jan. 6; v. 270; p. 50.
Hydrocarbon-motor. R. Huff. No. 1,339,512; May 11; v. 274; p. 236.
Hydrocarbon-motor. G. L. McCain. No. 1,345,948; July 6; v. 276; p. 122.
Hydrocarbon-motor. H. Schwarze. No. 1,345,893; July 6; v. 276; p. 111.
Hydrocarbon-motor. C. R. Short. No. 1,335,990; Apr. 6; v. 273; p. 54.
Hydrocarbon-motor L. K. Snell. No. 1,330,919; Feb. 17; v. 271; p. 395.
Hydrocarbon-motor L. K. Snell. No. 1,342,830; June 8; v. 275; p. 292.
Hydrocarbon-motor. E. E. Sweet. No. 1,328,855; Jan. 27; v. 270; p. 498.
Hydrocarbon-motor. J. G. Vincent. No. 1,332,964; Mar. 9; v. 272; p. 208.
Hydrocarbon-motor. J. G. Vincent. No. 1,335,148; Mar. 30; v. 272; p. 780.
Hydrocarbon-motor. J. G. Vincent. No. 1,339,530; May 11; v. 274; p. 239.
Hydrocarbon-motor. J. G. Vincent. No. 1,345,903; July 6; v. 276; p. 114.
Hydrocarbon-motor. J. G. Vincent. No. 1,352,486; Sept. 14; v. 278; p. 184.
Hydrocarbon-motor. J. G. Vincent. No. 1,352,487; Sept. 14; v. 278; p. 184.
Hydrocarbon-motor. J. G. Vincent. No. 1,355,068; Oct. 5; v. 279; p. 123.
Hydrocarbon oils and water, Apparatus for decomposing. H. C. Wade. No. 1,336,450; Apr. 13; v. 272; p. 200.
Hydrocarbon-treating furnace. C. C. Stutz. No. 1,359,931; Nov. 23; v. 280; p. 685.
Hydrocarbon treatment. W. F. Rittman. No. 1,330,008; Feb. 3; v. 271; p. 124.
Hydrocarbon-vapor producer, Liquid. J. J. Welthaus. No. 1,337,108; Apr. 13; v. 273; p. 327.
Hydrocarbons, Apparatus for cracking. J. W. Coast, Jr. No. 1,345,133; June 29; v. 275; p. 935.
Hydrocarbons, Apparatus for cracking. J. W. Coast, Jr. No. 1,348,264; Aug. 3; v. 277; p. 27.
Hydrocarbons, Apparatus for cracking. J. W. Coast, Jr. No. 1,348,268; Aug. 3; v. 277; p. 28.
Hydrocarbons, Apparatus for cracking. J. W. Coast, Jr. No. 1,349,815; Aug. 17; v. 277; p. 453.
Hydrocarbons, Apparatus for cracking. J. W. Coast, Jr. No. 1,349,817; Aug. 17; v. 277; p. 454.
Hydrocarbons, Apparatus for cracking. J. W. Coast, Jr. No. 1,353,316; Sept. 21; v. 278; p. 408.
Hydrocarbons, Apparatus for cracking. F. E. Wellman. No. 1,335,771; Apr. 6; v. 273; p. 13.
Hydrocarbons, Apparatus for cracking. T. E. Yaley. No. 1,329,450; Feb. 3; v. 271; p. 20.
Hydrocarbons, Apparatus for distilling. J. W. Coast, Jr. No. 1,345,134; June 29; v. 275; p. 935.
Hydrocarbons, Apparatus for producing light. J. A. Yunck. No. 1,345,656; July 6; v. 276; p. 64.
Hydrocarbons, Apparatus for treating. J. W. Coast, Jr. No. 1,355,311; Oct. 12; v. 279; p. 224.
Hydrocarbons, Apparatus for treatment of. W. F. Rittman. No. 1,352,916; Sept. 14; v. 278; p. 270.
Hydrocarbons, Apparatus for treatment of. W. F. Rittman. No. 1,352,917. Sept. 14; v. 278; p. 270.
Hydrocarbons, Chlorinating. H. F. Saunders and L. T. Sutherland. No. 1,362,355; Dec. 14; v. 281; p. 320.
Hydrocarbons, Converting liquid. W. M. McComb. No. 1,337,144; Apr. 13; v. 273; p. 333.
Hydrocarbons, Cracking. J. W. Coast, Jr. No. 1,345,132; June 29; v. 275; p. 934.
Hydrocarbons, Cracking. J. W. Coast, Jr. No. 1,348,265; Aug. 3; v. 277; p. 27.
Hydrocarbons, Cracking. J. W. Coast, Jr. No. 1,348,266; Aug. 3; v. 277; p. 27.
Hydrocarbons, Cracking. J. W. Coast, Jr. No. 1,348,267; Aug. 3; v. 277; p. 27.
Hydrocarbons, Cracking. J. W. Coast, Jr. No. 1,349,816; Aug. 17; v. 277; p. 453.
Hydrocarbons, Cracking. J. W. Coast, Jr. No. 1,355,312; Oct. 12; v. 279; p. 224.
Hydrocarbons, Cracking. F. E. Wellman. No. 1,347,568; July 27; v. 276; p. 620.
Hydrocarbons derived from gas-tar, Treating. M. Melamid. No. 1,362,127; Dec. 14; v. 281; p. 277.
Hydrocarbons for the transformation thereof, Treatment of liquid. N. C. and C. E. Cassal and B. H. Gerrans. No. 1,330,844; Feb. 17; v. 271; p. 379.
Hydrocarbons from heavy hydrocarbons, Obtaining light. F. Bergius. No. 1,344,671; June 29; v. 275; p. 847.
Hydrocarbons from higher-boiling hydrocarbons, Manufacture of lower-boiling. A. E. Houlehan. No. 1,334,033; Mar. 16; v. 272; p. 464.
Hydrocarbons from higher-boiling hydrocarbons, Production of lower-boiling. A. E. Houlehan. No. 1,337,317; Apr. 20; v. 273; p. 441.
Hydrocarbons, Method of and apparatus for cracking. F. Puening. No. 1,358,174; Nov. 9; v. 280; p. 248.
Hydrocarbons of the aromatic series, Sulfonation of. L. M. Dennis. No. 1,332,203; Mar. 2; v. 272; p. 5.
Hydrocarbons, Process of and apparatus for refining liquid. F. E. Wellman. No. 1,335,768; Apr. 6; v. 273; p. 12.
Hydrocarbons, Treating. B. Andrews and W. C. Averill, Jr. No. 1,329,739; Feb. 3; v. 271; p. 73.
Hydrocarbons, Treating. J. W. Coast, Jr. No. 1,333,964; Mar. 16; v. 272; p. 450.
Hydrocarbons, Treating. H. W. Jones. No. 1,347,544; July 27; v. 276; p. 615.
Hydrocarbons, Treating. L. W. McOmber. No. 1,345,452; July 6; v. 276; p. 24.
Hydrocarbons, Treating petroleum. T. T. Gray. No. 1,340,889; May 25; v. 274; p. 625.
Hydrogen and zinc oxid, Making. R. H. McKee. No. 1,355,904; Oct. 19; v. 279; p. 379.
Hydrogen-circulation process. C. Ellis. No. 1,342,668; June 8; v. 275; p. 258.
Hydrogen, Manufacture or production of. S. W. Bray and I. H. Balfour. No. 1,360,876; Nov. 30; v. 280; p. 938.
Hydrogen, Process of and apparatus for producing. L. S. Abbott. No. 1,345,905; July 6; v. 276; p. 114.
Hydrogen, Producing. C. Bosch, A. Mittasch, C. Beck. No. 1,330,772; Feb. 10; v. 271; p. 298.
Hydrogen, Producing. R. H. Uhlinger. No. 1,363,488; Dec. 28; v. 281; p. 682.
Hydrogenation. B. W. Elder. No. 1,331,905; Feb. 24; v. 271; p. 600.
Hydrogenation. C. Ellis. No. 1,345,589; July 6; v. 276; p. 52.
Hydrometer. T. Midgley, Jr. No. 1,335,253; Mar. 30; v. 272; p. 799.
Hydrometer apparatus. J. Steiner. No. 1,362,053; Dec. 14; v. 281; p. 261.
Hydrometer, Recording-. D. S. Holt. No. 1,341,014; May 25; v. 274; p. 649.
Hydromotive unit. L. F. Harya. No. 1,362,304; Dec. 14; v. 281; p. 311.
Hydropneumatic device. R. Liebau. No. 1,340,238; May 18; v. 274; p. 430.
Hydropower-heater. E. Kelley. No. 1,327,895; Jan. 6; v. 270; p. 96.
Hydroscopic materials, Method of an apparatus for drying, conditioning, and regulating the moisture content of. W. H. Carrier. No. 1,330,238; Feb. 10; v. 271; p. 199.
Hygrometer for regulating humidifying and heating systems. S. W. Cramer and W. B. Hodge. No. 1,331,981; Feb. 24; v. 271; p. 615.
Hygroscope, Portable. C. Sampietro. No. 1,336,380; Apr. 6; v. 273; p. 128.
Hypodermic injections, Device for making. R. G. J. McEntire. No. 1,338,886; Apr. 27; v. 278; p. 712.
Ice, Apparatus for making can-. G. L. Reuschline. No. 1,360,315; Nov. 30; v. 280; p. 829.
Ice, Apparatus for the manufacture of. T. Shipley. No. 1,356,317; Oct. 19; v. 279; p. 461.
Ice, Apparatus for the manufacture of. J. W. Wheater. No. 1,330,930; Feb. 17; v. 271; p. 397.
Ice-can. T. W. Garnett and F. E. Torgler. No. 1,348,354; Aug. 3; v. 277; p. 44.
Ice-cans, Water-controlling mechanism for. T. Birkenmaier. No. 1,340,814; May 18; v. 274; p. 539.
Ice-carrier, Automobile. A. W. Thielepape. No. 1,355,187; Oct. 12; v. 279; p. 199.
Ice-conveyer. H. B. Wood. No. 1,341,697; June 1; v. 275; p. 16.
Ice-cream cans, Method and apparatus for retinning. W. V. Callender. No. 1,336,886; Apr. 13; v. 273; p. 284.
Ice-cream-cone carrier. F. E. McIntosh. No. 1,338,744; May 4; v. 274; p. 18.
Ice-cream-cone dispenser. H. G. Wilson. No. 1,341,606; May 25; v. 274; p. 763.
Ice-cream-cone holder. O. J. Roth. No. 1,338,192; Apr. 27; v. 273; p. 675.
Ice-cream-cone-holder insert for bags. S. J. Downing and F. A. Sutherland. No. 1,343,252; June 15; v. 275; p. 438.
Ice-cream-cone holder, Sanitary. S. A. Kornsweet. No. 1,338,833; May 4; v. 274; p. 34.
Ice-cream cones, Machine for baking. P. H. F. Spies. No. 1,341,084; May 25; v. 274; p. 663.
Ice-cream cornucopias, Combined trimming and nesting machine for. M. J. Wolff. No. 1,344,286; June 22; v. 275; p. 706.
Ice-cream cutter. C. S. Raia. No. 1,343,932; June 22; v. 275; p. 637.
Ice-cream cutter. I. Seltzman. No. 1,360,033; Nov. 23; v. 280; p. 705.
Ice-cream-cutting machine. J. H. Hendrickson and R. E. Frizzell. No. 1,346,405; July 13; v. 276; p. 274.
Ice-cream-delivery machine. F. Hara. No. 1,351,903; Sept. 7; v. 278; p. 38.
Ice-cream dipper. S. Levy. No. 1,352,755; Sept. 14; v. 278; p. 238.
Ice-cream dipper. S. Levy. No. 1,352,756; Sept. 14; v. 278; p. 238.
Ice-cream-dispensing device. W. L. Hix. No. 1,342,675; June 8; v. 275; p. 260.
Ice-cream-dispensing machine. R. H. Gardiner and H. C. Stacey. No. 1,358,631; Nov. 9; v. 280; p. 340.
Ice-cream freezer. M. A. Abel. No. 1,337,988; Apr. 27; v. 233; p. 637.
Ice-cream freezer. J. Clark. No. 1,351,622; Aug. 31; v. 277; p. 915.
Ice-cream freezer. J. C. Gibbs. No. 1,334,748; Mar. 23; v. 272; p. 644.

Digitized by Google

Ice-cream freezer. W. H. Knemeyer. No. 1,348,951; Aug. 10; v. 277; p. 211.
Ice-cream freezer. F. D. Reinhardt. No. 1,346,767; July 13; v. 276; p. 346.
Ice-cream freezer. T. L. Valerius and O. Larsen. No. 1,354,027; Oct. 5; v. 279; p. 96.
Ice-cream-freezing process. R. J. Kirkpatrick, S. M. Swordling, and W. P. Heath. No. 1,329,246; Jan. 27; v. 270; p. 571.
Ice-cream into bricks, Machine for cutting blocks of. A. E. Aichin. No. 1,330,154; Feb. 10; v. 271; p. 183.
Ice-cream, Machine for dispensing. F. A. White. No. 1,347,727; July 27; v. 276; p. 652.
Ice-cream machinery. A. R. Sanna. No. 1,351,302; Aug. 31; v. 277; p. 851.
Ice-cream-making machine. F. P. Miller. No. 1,352,984; Sept. 14; v. 278; p. 283.
Ice-cream or other material in paper cartons, Apparatus for dispensing. R. Ferris. No. 1,354,246; Sept. 28; v. 278; p. 639.
Ice-cream package. W. A. Haas. No. 1,343,391; June 15; v. 275; p. 465.
Ice-cream, Packaging. J. B. Dalton. (Reissue.) No. 14,887; June 22; v. 275; p. 770.
Ice-cream tub, Reinforced. B. H. Frick. No. 1,344,876; June 29; v. 275; p. 886.
Ice-creeper. C. W. Churchill. No. 1,340,877; May 25; v. 274; p. 622.
Ice-creeper. G. D. Maxson. No. 1,329,987; Feb. 3; v. 271; p. 120.
Ice-creeper. T. Sala and M. Butera. No. 1,352,088; Sept. 7; v. 278; p. 73.
Ice-creeper. A. Schemel. No. 1,354,073; Sept. 28; v. 278; p. 603.
Ice-creeper. A. M. Snidrowski. No. 1,357,658; Nov. 2, v. 280; p. 86.
Ice-creeper. J. Yanik. No. 1,349,542; Aug. 10; v. 277; p. 327.
Ice-cutter. J. G. Rose. No. 1,360,446; Nov. 30; v. 280; p. 854.
Ice-cutting machine. E. H. Frankamp. No. 1,328,372; Jan. 20; v. 270; p. 378.
Ice-cutting machine. R. H. Hurford. No. 1,336,563; Apr. 13; v. 278; p. 222.
Ice-cutting machine. E. A. Rule. No. 1,351,131; Aug. 31; v. 277; p. 817.
Ice-cutting machine. J. Schloz. No. 1,330,907; Feb. 17; v. 271; p. 392.
Ice-cutting machines, Operating mechanism for. J. S. Turins. No. 1,345,290; June 29; v. 275; p. 965.
Ice, Device for use in buying. J. T. Gilbert. No. 1,337,836; Apr. 20; v. 278; p. 538.
Ice-harvesting machine. D. Applegate. No. 1,351,604; Aug. 31; v. 277; p. 912.
Ice-machine. W. C. Grant. No. 1,344,502; June 22; v. 275; p. 749.
Ice-machine. H. E. Willsie. (Reissue.) No. 14,885; June 15; v. 275; p. 565.
Ice-machines of the compression type, Crank-mounting for. H. W. Rottel. No. 1,343,407; June 15; v. 275; p. 468.
Ice-making and refrigerating purposes, Apparatus for. C. Delaygue. No. 1,337,888; Apr. 20; v. 273; p. 549.
Ice-making apparatus. W. D. Willcox. No. 1,327,414; Jan. 6; v. 270; p. 99.
Ice-making appliance. O. B. Emerson. No. 1,335,319; Mar. 30; v. 272; p. 812.
Ice, Method of and apparatus for making. W. D. Edwards. No. 1,348,352; Aug. 3; v. 277; p. 44.
Ice, Method of and apparatus for shaving. L. C. Reed. No. 1,333,094; Mar. 9; v. 272; p. 227.
Ice-saw. J. E. Lundmark. No. 1,356,640; Oct. 26; v. 279; p. 570.
Ice-tractor. D. H. Scott. No. 1,343,687; June 15; v. 275; p. 523.
Ice-vending machine. G. L. Bennett. No. 1,339,053; May 4; v. 274; p. 75.
Identification device. G. Gafinowits. No. 1,350,275; Aug. 17; v. 277; p. 542.
Identification device. J. Gulde. No. 1,363,409; Dec. 28; v. 281; p. 616.
Identification device. G. Kalkbrenner. No. 1,338,181; Apr. 27; v. 273; p. 673.
Identification means. J. Couture. No. 1,350,070; Aug. 17; v. 277; p. 503.
Igniter. R. Rosner. No. 1,332,758; Mar. 2; v. 272; p. 112.
Igniter, Electric. E. J. Kane. No. 1,333,548; Mar. 9; v. 272; p. 312.
Igniter, Flash-light. G. A. Ley. No. 1,332,048; Feb. 24; v. 271; p. 627.
Igniting device. C. H. Shuford. No. 1,347,718; July 27; v. 276; p. 650.
Igniting substance. R. A. Martinez. No. 1,338,389; Apr. 27; v. 273; p. 713.
Ignition and lighting device. A. H. Neuland. No. 1,338,324; Apr. 27; v. 273; p. 701.
Ignition and lighting switch, Automobile. W. Kaisling. No. 1,360,411; Nov. 30; v. 280; p. 847.
Ignition apparatus. J. Bijur. No. 1,330,619; Feb. 10; v. 271; p. 269.
Ignition apparatus. O. F. Conklin. No. 1,354,888; Oct. 5; v. 279; p. 88.
Ignition apparatus. C. T. Mason. No. 1,363,742; Dec. 28; v. 281; p. 681.
Ignition apparatus. W. H. Mooney. No. 1,348,868; Aug. 3; v. 277; p. 47.
Ignition apparatus. A. V. Pellet. No. 1,330,952; Feb. 17; v. 271; p. 401.
Ignition apparatus, Point for electrical contacts of. L. T. and F. F. Wallon. No. 1,362,455; Dec. 14; v. 281; p. 340.
Ignition-controller. W. O. Kennington. No. 1,360,758; Nov. 30; v. 280; p. 915.
Ignition-controller. G. B. Stone. No. 1,338,336; Apr. 27; v. 273; p. 703.
Ignition-controlling switch. V. A. Fynn. No. 1,354,902; Oct. 5; v. 279; p. 91.
Ignition-detector. R. H. Clifton. No. 1,358,707; Nov. 16; v. 280; p. 400.
Ignition-detector and spark-intensifier. A. Q. Nash. No. 1,338,521; Apr. 27; v. 273; p. 737.
Ignition device. J. S. Coyle. No. 1,337,046; Apr. 13; v. 273; p. 315.
Ignition device. L. S. Crousaz. No. 1,361,689; Dec. 7; v. 281; p. 143.
Ignition device. A. H. Hoadley. No. 1,338,625; Apr. 27; v. 273; p. 756.
Ignition device. E. N. Lightfoot. No. 1,359,514; Nov. 23; v. 280; p. 602.
Ignition device. L. Ranney, J. W. Dissette, and F. E. Tyrrell. No. 1,341,362; May 25; v. 274; p. 716.
Ignition device. H. R. Van Deventer. No. 1,327,861; Jan. 6; v. 270; p. 89.
Ignition device. H. R. Van Deventer. No. 1,327,502; Jan. 6; v. 270; p. 116.
Ignition device. R. N. Wood. No. 1,342,837; June 8; v. 275; p. 293.
Ignition-device interrupter. C. T. Mason. No. 1,327,344; Jan. 6; v. 270; p. 86.
Ignition device, Sensitive. H. Knight. No. 1,333,496; Mar. 9; v. 272; p. 302.
Igniting devices, Distributer for high-tension. M. Schäfer. No. 1,337,329; Apr. 20; v. 273; p. 443.
Ignition devices, Distributer-head for. A. E. Berdon, C. Ringwald, and A. B. Gomory. No. 1,351,714; Aug. 31; v. 277; p. 932.
Ignition-dynamo. C. T. Mason. No. 1,354,502; Oct. 5; v. 279; p. 11.
Ignition-generator. W. W. Dean. No. 1,327,375; Jan. 6; v. 270; p. 92.
Ignition-lock. A. W. Saegesser. No. 1,348,187; Aug. 3; v. 277; p. 10.
Ignition-lock. D. S. Scarborough. No. 1,329,930; Feb. 3; v. 271; p. 109.
Ignition-machine, Magneto-electric. E. Hürlimann. No. 1,360,640; Nov. 30; v. 280; p. 893.
Ignition-magneto. J. R. Stark. No. 1,342,607; June 8; v. 275; p. 247.
Ignition, Magneto for irregular. L. W. Rosenthal. No. 1,341,282; May 25; v. 274; p. 700.
Ignition-manifold. O. Konigslow, Sr. No. 1,330,811; Feb. 17; v. 271; p. 378.
Ignition-switch. V. A. Fynn. No. 1,328,990; Jan. 27; v. 270; p. 523.
Ignition-switch. C. T. Mason. No. 1,349,080; Aug. 10; v. 277; p. 236.
Ignition system. J. Bijur. No. 1,362,386; Dec. 14; v. 281; p. 326.
Ignition system. F. Conrad. No. 1,352,431; Sept. 14; v. 278; p. 173.
Ignition system. F. Conrad. No. 1,352,434; Sept. 14; v. 278; p. 173.
Ignition system. F. Conrad and J. S. Kinney. No. 1,338,360; Apr. 27; v. 273; p. 708.
Ignition system. A. C. De Lorme. No. 1,353,990; Sept. 28; v. 278; p. 586.
Ignition system. A. C. De Lorme. No. 1,360,273; Nov. 30; v. 280; p. 820.
Ignition system. A. C. De Lorme. No. 1,360,274; Nov. 30; v. 280; p. 821.
Ignition system. A. C. De Lorme. No. 1,361,313; Dec. 7; v. 281; p. 66.
Ignition system. A. C. De Lorme. No. 1,361,314; Dec. 7; v. 281; p. 66.
Ignition system. W. O. Kennington. No. 1,347,511; July 27; v. 276; p. 608.
Ignition system. H. V. S. Taylor. No. 1,327,790; Jan. 13; v. 270; p. 281.
Ignition systems, Automatic circuit-opening switch for. G. A. Ream. No. 1,336,158; Apr. 6; v. 273; p. 86.
Ignition-switch, Automatic. V. A. Fynn. No. 1,359,688; Nov. 23; v. 280; p. 636.
Ignition-timer. E. B. Jacobson. No. 1,333,587; Mar. 9; v. 272; p. 319.
Ignition-trouble finder. L. B. Green. No. 1,352,662; Sept. 14; v. 278; p. 219.
Illuminated radiator-thermometer. H. T. Sweeney. No. 1,363,540; Dec. 28; v. 281; p. 643.
Illuminated sign. W. P. Hammond and E. Q. Moses. No. 1,346,493; July 13; v. 276; p. 292.
Illuminated sign. A. S. Limpert. No. 1,346,499; July 13; v. 276; p. 298.
Illuminating and advertising system. Intensified. W. E. Golden. No. 1,361,457; Dec. 7; v. 281; p. 97.
Illuminating apparatus. L. W. Bugbee. No. 1,342,894; June 8; v. 275; p. 305.
Illuminating apparatus. E. A. Hawthorne. No. 1,336,837; Apr. 13; v. 273; p. 275.

Digitized by Google

Illuminating apparatus. E. A. Hawthorne. No. 1,356,144; Oct. 19; v. 279; p. 426.
Illuminating apparatus. E. A. Hawthorne. No. 1,361,852; Dec. 14; v. 281; p. 221.
Illuminating apparatus. J. F. Rhodin. No. 1,341,674; June 1; v. 275; p. 12.
Illuminating appliance. W. A. Dorey. No. 1,359 493; Nov. 23; v. 280; p. 598.
Illuminating device. R. B. Benjamin. No. 1,352,777; Sept. 14. v. 278; p. 242.
Illuminating device. R. B. Benjamin. No. 1,355,300; Oct. 12; v. 279; p. 221.
Illuminating device. E. C. Fisher. No. 1,360,387; Nov. 30; v. 280; p. 842.
Illuminating device, Construction of. W. T. Coulson. No. 1,348,698; Aug. 3; v. 277; p. 110.
Illuminating device for projecting purposes. (Reissue.) S. E. Doane, R. P. Burrows, and A. F. Sinclair. No. 14,805; Feb. 17; v. 271; p. 499.
Illuminating-fixture. W. W. Potts. No. 1,327,783; Jan. 13; v. 270; p. 221.
Illuminating means. L. X. Champeau. No. 1,350,295; Aug. 24; v. 277; p. 592.
Illuminating means. M. H. Greenewalt. No. 1,345,168; June 29; v. 275; p. 942.
Illuminating small objects with intense light, Means for. A. C. Banfield. No. 1,355,805; Oct. 19; v. 279; p. 359.
Illumination. L. W. Bugbee and E. D. Tillyer. No. 1,346,172; July 13; v. 276; p. 228.
Illusion apparatus. D. Foster. No. 1,351,562; Aug. 31; v. 277; p. 903.
Images, Production of complemental. D. F. Comstock. (Reissue.) No. 14,983; Nov. 16; v. 280; p. 550.
Impact device. O. A. Layne. No. 1,328,569; Jan. 20; v. 270; p. 415.
Impact-engine. W. A. Smith. No. 1,338,259; Apr. 27; v. 278; p. 688.
Impact-machine. W. Gerhard. No. 1,327,817; Jan. 13; v. 270; p. 287.
Impermeable and non-hygroscopic material. M. Arosio. No. 1,355,586; Oct. 12; v. 279; p. 277.
Implement. A. Helmbold, Jr. No. 1,357,001; Oct. 26; v. 279; p. 658.
Implement, Combination. F. A. Peterson. No. 1,341,759; June 1; v. 275; p. 29.
Implement, Compound. F. Meyers. No. 1,339,405; May 11; v. 274; p. 215.
Implement frame, Powder-driven-. I. Armstrong. No. 1,328,222; Jan. 13; v. 270; p. 313.
Implement-handle. C. H. Rieth. No. 1,349,223; Aug. 10; v. 277; p. 264.
Implement-handle. J. V. Smith. No. 1,342,467; June 8; v. 275; p. 220.
Implement-holder. F. W. Hawkes. No. 1,340,224; May 18; v. 274; p. 428.
Implement-holding device. E. Wikstrom. No. 1,342,364; June 1; v. 275; p. 146.
Implement, Writing. P. S. McLean and W. Meyner. No. 1,330,027; Feb. 3; v. 271; p. 127.
Impregnating apparatus. W. V. Lander. No. 1,339,400; May 11; v. 274; p. 214.
Impregnator. M. J. Wheeler. No. 1,358,130; Nov. 9; v. 280; p. 240.
Impulse-controlling system. H. P. Clausen. No. 1,353,517; Sept. 21; v. 278; p. 447.
Impulse-pressure gage. L. B. Stone. No. 1,336,104; Apr. 6; v. 273; p. 76.
Impulse-sending device. H. P. Clausen. No. 1,334,080; Mar. 16; v. 272; p. 473.
Impulse-starter. F. W. Andrew. No. 1,342,199; June 1; v. 275; p. 115.
Impulse-starter coupling. F. W. Andrew. No. 1,352,864; Sept. 14; v. 278; p. 260.
Impulse starting mechanism. F. D. Norman. No. 1,337,322; Apr. 20; v. 273; p. 441.
Impulse starting mechanism. W. E. Schwarzmann. No. 1,337,331; Apr. 20; v. 273; p. 443.
Impulse starting mechanism and operating same. M. Tost. No. 1,338,758; May 4; v. 274; p. 20.
Impulse-transmitting device. J. C. Field. No. 1,354,814; Oct. 5; v. 279; p. 74.
Impulses, Method and apparatus for detecting low-frequency. R. A. Fessenden. No. 1,348,825; Aug. 3; v. 277; p. 133.
Inclined elevator. C. H. Lister. No. 1,330,818; Feb. 17; v. 271; p. 374.
Inclinometer. H. Markham-Mills. No. 1,345,098; June 29; v. 275; p. 928.
Incense-burner and lamp. L. M. and W. A. Rhodes. No. 1,357,824; Nov. 2; v. 280; p. 119.
Inclosure, pen, fence, and the like. C. M. Stevenson. No. 1,352,392; Sept. 7; v. 278; p. 129.
Incubator. C. H. Abbott. No. 1,337,183; Apr. 20; v. 273; p. 415.
Incubator. A. E. Bergstrom. No. 1,349,315; Aug. 10; v. 277; p. 283.
Incubator. S. C. Calow. No. 1,328,032; Jan. 13; v. 270; p. 277.
Incubator. F. Giddens. No. 1,345,593; July 6; v. 276; p. 52.
Incubator. J. B. Glover. No. 1,355,602; Oct. 12; v. 279; p. 279.
Incubator. S. M. Lewis. No. 1,346,717; July 13; v. 276; p. 336.
Incubator. F. W. Mueller. No. 1,344,591; June 22; v. 275; p. 766.
Incubator. Z. Riddle. No. 1,330,721; Feb. 10; v. 271; p. 288.
Incubator. R. A. St. Clair. No. 1,338,404; Apr. 27; v. 278; p. 715.
Incubator. A. Schafer. No. 1,330,141; Feb. 10; v. 271; p. 180.
Incubator attachment. W. E. Hill. No. 1,351,647; Aug. 31; v. 277; p. 920.
Incubator-beater. V. F. Davis. No. 1,348,784; Aug. 3; v. 277; p. 126.
Incubators, Egg-tray for. S. J. Carr. No. 1,334,225; Mar. 16; v. 272; p. 499.
Incubators, Egg-turning tray for. H. V. Flickinger. No. 1,361,038; Dec. 7; v. 281; p. 11.
Index. J. H. Rand. No. 1,340,251; May 18; v. 274; p. 433.
Index. J. H. Rand. No. 1,362,961; Dec. 21; v. 281; p. 489.
Index. J. F. Ryan. No. 1,340,410; May 18; v. 274; p. 463.
Index and display device, Card. E. F. Wilson. No. 1,336,115; Apr. 6; v. 273; p. 78.
Index and memorandum pad holder. L. A. Hufschmidt. No. 1,347,222; July 20; v. 276; p. 494.
Index, Card-. S. Anthony. No. 1,327,936; Jan. 13; v. 270; p. 258.
Index, Card-. S. Anthony. No. 1,330,509; Feb. 10; v. 271; p. 249.
Index, Card-. S. Anthony. No. 1,330,510; Feb. 10; v. 271; p. 249.
Index, Card-. S. Anthony. No. 1,340,140; May 18; v. 274; p. 413.
Index, Card-. H. Muller. No. 1,350,665; Aug. 24; v. 277; p. 665.
Index, Card-. J. H. Rand. No. 1,338,789; May 4; v. 274; p. 26.
Index, Card-. R. C. Russell. No. 1,357,653; Nov. 2; v. 280; p. 85.
Index, Card-. G. Woodhouse. No. 1,327,848; Jan. 13; v. 270; p. 242.
Index-clip. A. J. Forward. No. 1,347,942; July 27; v. 276; p. 694.
Index devices, Leaf structure for. J. H. Rand, Jr. No. 1,355,062; Oct. 5; v. 279; p. 122.
Index-file. E. A. Shaver. No. 1,329,808; Feb. 3; v. 271; p. 86.
Index-filing system, Card-. J. L. Rich. No. 1,361,494; Dec. 7; v. 281; p. 104.
Index-hand, Self-luminous. R. W. Erdle. No. 1,330,180; Feb. 10; v. 271; p. 188.
Index holder, Card-. F. S. Long. No. 1,360,548; Nov. 30; v. 280; p. 874.
Index or file. R. D. Hayes. No. 1,328,956; Jan. 27; v. 270; p. 517.
Index system, Card-. J. W. Downing. No. 1,340,884; May 18; v. 274; p. 458.
Index-tab. G. J. Aigner. No. 1,346,101; July 13; v. 276; p. 215.
Index-tab. G. J. Aigner. No. 1,347,241; July 20; v. 276; p. 498.
Indexing and recording means. A. R. Fergusson. No. 1,344,627; June 29; v. 275; p. 838.
Indicating and recording orders, System for. W. H. Bell. No. 1,349,555; Aug. 17; v. 277; p. 403.
Indexing device, Card-. O. B. Higdon. No. 1,359,900; Nov. 23; v. 280; p. 697.
Indicating and recording apparatus. D. B. Morison. No. 1,335,596; Mar. 30; v. 272; p. 863.
Indicating and recording instrument. R. P. Brown and C. P. Frey. No. 1,355,448; Oct. 12; v. 279; p. 250.
Indicating device. F. P. Blair, C. L. Dows, and G. S. Merrill. No. 1,340,145; May 18; v. 274; p. 414.
Indicating device. H. Mannon, H. M. Brown, and R. G. Perkins. No. 1,328,007; Jan. 13; v. 270; p. 272.
Indicating devices, Luminous attachment for. I. Florman. No. 1,334,604; Mar. 23; v. 272; p. 617.
Indicating-lock. J. Heberling. No. 1,337,401; Apr. 20; v. 273; p. 456.
Indicating mechanism. S. Jencick. No. 1,331,771; Feb. 24; v. 271; p. 574.
Indicator: *See*—

Aeroplane height-indicator.
Aeroplane level-indicator.
Airship speed-indicator.
Angle-indicator.
Automobile-indicator.
Automobile direction-indicator.
Automobile-wheel indicator.
Battery-indicator.
Camera-indicator.
Changeable indicator.
Course-indicator.
Dairy-indicator.
Diamond-indicator.
Direction-indicator.
Electrical indicator.
Electrical position-indicator.
Electrolytic-cell indicator.
Engine-indicator.
Exposure-indicator.
Fuse-indicator.
Flying-machine indicator.
Golf-stroke indicator.
Grade-indicator.
Gun-indicator.
Hay-press indicator.
Heat and cold indicator.
License-indicator.
Load-indicator.
Lubrication-indicator.
Mail-indicator.
Measuring-indicator.
Mechanical indicator.
Musical-notation indicator.
Perpendicularity-indicator.
Piano note-indicator.
Poison-bottle indicator.
Polarity-indicator.
Pressure-indicator.
Reading solution indicator.
Respiration-indicator.

Digitized by Google

Indicator: *See*—Continued.
Road-indicator.
Rudder-position indicator.
Sea-current-direction indicator.
Ship-indicator.
Signal-indicator.
Sound-direction indicator.
Spark-gap indicator.
Speed-indicator.
Station-indicator.
Stop-indicator.
Street-indicator.
Street and station indicator.
Surface-indicator.
Switch-controlling indicator.
Tire-indicator.
Tire-mileage indicator.
Valve-cap and pressure-indicator.
Vehicle-indicator.
Vehicle direction-indicator.
Vehicle loading-indicator.
Viscosity-indicator.
Water-level indicator.
Wheel-indicator.
Wheel-angle indicator.
Wind-indicator.
Indicator. A. Bearicks. No. 1,362,465; Dec. 14; v. 281; p. 341.
Indicator. J. W. Carter, Jr. No. 1,349,321; Aug. 10; v. 274; p. 284.
Indicator. J. W. Elvyn. No. 1,350,303; Aug. 24; v. 277; p. 594.
Indicator. A. G. Fenn. No. 1,348,162; Aug. 3; v. 277; p. 6.
Indicator. N. M. Hopkins. No. 1,335,238; Mar. 30; v. 272; p. 796.
Indicator. W. C. Meader. No. 1,346,758; July 13; v. 276; p. 344.
Indicator. H. W. Sabold. No. 1,335,261; Mar. 30; v. 272; p. 801.
Indicator. W. F. Smith and E. P. Sanford. No. 1,333,190; Mar. 9; v. 272; p. 244.
Indicator. M. F. Sullivan. No. 1,351,707; Aug. 31; v. 277; p. 931.
Indicator. A. F. Young. No. 1,357,759; Nov. 2; v. 280; p. 106.
Indicator and alarm, Safety. Y. J. Molina. No. 1,328,387; Jan. 20; v. 270; p. 381.
Indicator for page ends. E. A. Steiner. No. 1,359,445; Nov. 16; v. 280; p. 543.
Indicator-holder. G. Schustarich. No. 1,341,935; June 1; v. 275; p. 64.
Indicator mechanism. O. H. and A. F. Pieper. No. 1,328,895; Jan. 27; v. 270; p. 506.
Indicator-valve post. R. H. Thome and F. J. Miller. No. 1,338,263; Apr. 27; v. 278; p. 689.
Indicators, Operating means for direction-. C. H. Shipman. No. 1,339,071; May 4; v. 274; p. 79.
Inductance-coils, Insulated support for. L. Steinberger and G. Hill. No. 1,342,303; June 1; v. 275; p. 135.
Inductance-coils, Insulated support for. L. Steinberger and G. Hill. No. 1,342,308; June 1; v. 275; p. 136.
Induction apparatus, Stationary. W. O. Dwyer. No. 1,352,360; Sept. 7; v. 278; p. 124.
Induction apparatus, Stationary. S. E. Johannesen. No. 1,360,752; Nov. 30; v. 280; p. 914.
Induction-coil. E. B. Jacobson. No. 1,335,837; Apr. 6; v. 273; p. 25.
Induction-coil. E. J. Pratt. No. 1,362,138; Dec. 14; v. 281; p. 279.
Induction-motor. C. Macmillan. No. 1,356,933; Oct. 26; v. 279; p. 627.
Induction-motor. C. Macmillan. No. 1,356,936; Oct. 26, v. 279; p. 628.
Induction-motor, Multispeed. C. Macmillan. No. 1,386,934; Oct. 26; v. 279; p. 628.
Induction-motor, Multispeed. C. Macmillan. No. 1,356,935; Oct. 26; v. 279; p. 628.
Induction-motor. Polyphase. J. B. Price. No. 1,362,959; Dec. 21; v. 281; p. 489.
Induction-motors, Speed control for. B. G. Lamme and W. Sykes. No. 1,333,664; Mar. 16; v. 272; p. 395.
Inductor-alternator. H. J. Podlešák. No. 1,329,926; Feb. 3; v. 271; p. 109.
Inductor-generator. H. F. Geist. No. 1,354,546; Oct. 5; v. 279; p. 20.
Infant-chair. K. Schapel. No. 1,338,401; Apr. 27; v. 273; p. 715.
Infant-chair. J. Straith. No. 1,337,103; Apr. 13; v. 273; p. 326.
Infant-seat. W. H. Young. No. 1,335,776; Apr. 6; v. 273; p. 14.
Inflated article. F. T. Roberts. No. 1,355,271; Oct. 12; v. 279; p. 216.
Inflating-coupling. H. P. Kraft. No. 1,362,804; Dec. 21; v. 281; p. 460.
Inflating coupling. M. C. Schweinert and H. P. Kraft. No. 1,330,397; Feb. 10; v. 271; p. 228.
Ingot-casting machine. F. L. Jamison. No. 1,336,234; Apr. 6; v. 273; p. 100.
Ingot-mold. J. A. Drain. No. 1,346,369; July 13; v. 276; p. 267.
Ingot-mold. B. H. Howard and E. J. Turner. No. 1,335,685; Mar. 30; v. 272; p. 881.
Ingot-mold. J. T. Rowley. No. 1,351,346; Aug. 31; v. 277; p. 861.
Ingot-mold and molding. R. C. Woodward. No. 1,336,459; Apr. 13; v. 273; p. 202.
Ingot-mold, Teeming. E. Gathmann. No. 1,333,305; Mar. 9; v. 272; p. 266.
Ingot-molds, Hot-top for. J. Jones. No. 1,334,036; Mar. 16; v. 272; p. 465.
Ingot molds, Method and apparatus for cooling. R. G. Coates. No. 1,345,749; July 6; v. 276; p. 82.
Ingot-pouring mechanism. S. B. Sheldon. No. 1,340,422; May 18; v. 274; p. 466.
Ingot-stripper. T. W. Price. No. 1,352,026; Sept. 7; v. 278; p. 61.
Ingots, Apparatus for manipulation of metal. E. W. Davies. No. 1,327,315; Jan. 6; v. 270; p. 81.
Ingots, Casting steel. R. G. Coates. No. 1,327,987; Jan. 13; v. 270; p. 268.
Ingots, Machine for perfecting. F. G. Gasche. No. 1,362,988; Dec. 21; v. 281; p. 495.
Inhaler. F. Lobl. No. 1,340,662; May 18; v. 274; p. 511.
Inhaler for administration of anesthetics. F. A. Bardwell. No. 1,359,312; Nov. 16; v. 280; p. 516.
Initial detonating agent. W. O. Snelling. No. 1,353,805; Sept. 21; v. 278; p. 505.
Injector. J. M. Gonsales. No. 1,361,715; Dec. 7; v. 281; p. 148.
Injector. J., J. C., and R. D. Metcalfe. No. 1,329,465; Feb. 3; v. 271; p. 23.
Injector. J., J. C., and R. D. Metcalfe. No. 1,342,128; June 1; v. 275; p. 101.
Injector. K. O. Steffner. No. 1,362,052; Dec. 14; v. 281; p. 261.
Injector, Automatic. J. M. Hendron. No. 1,347,035; July 20; v. 276; p. 458.
Injector or ejector. E. O. Cartwright. No. 1,341,010; May 24; v. 274; p. 648.
Ink and other stains from cloth, paper, &c., Removing. A. S. Cushman. No. 1,361,833; Dec. 14; v. 281; p. 217.
Ink-bottle holder. C. F. Geiger. No. 1,329,593; Feb. 3; v. 271; p. 47.
Ink distribution, Progressive-velocity. H. A. W. Wood. No. 1,354,639; Oct. 5; v. 279; p. 39.
Ink, Solid. M. Tsutsumi. No. 1,334,722; Mar. 23; v. 272; p. 639.
Ink, Writing and engrossing. E. Goodwirth. No. 1,347,454; July 20; v. 276; p. 540.
Inking apparatus. C. B. Thwing. No. 1,360,823; Nov. 30; v. 280; p. 928.
Inking machine, Ribbon-. H. G. Mutschler. No. 1,351,582; Aug. 31; v. 277; p. 907.
Inking mechanism. G. S. Conger. No. 1,330,787; Feb. 17; v. 271; p. 369.
Inking mechanism. L. A. Schmidt. No. 1,348,900; Aug. 10; v. 277; p. 201.
Inking mechanism. E. J. Smith. No. 1,338,044; Apr. 27; v. 273; p. 648.
Inking mechanism. J. White. No. 1,341,691; June 1; v. 275; p. 15.
Inking-plate. O. Eads. No. 1,344,026; June 22; v. 275; p. 655.
Inking-roller controller. E. C. Shaver. No. 1,331,219; Feb. 17; v. 271; p. 450.
Inking-roller-driving mechanism. J. White. No. 1,341,692; June 1; v. 275; p. 15.
Inkstand. F. M. Ashley. No. 1,361,355; Dec. 7; v. 281; p. 75.
Inkstand. A. E. Burruss. No. 1,334,078; Mar. 16; v. 272; p. 472.
Inkstand. T. L. Robertson. No. 1,345,959; July 6; v. 276; p. 125.
Inkstand. F. A. Weeks. No. 1,347,527; July 27; v. 276; p. 611.
Inkwell. S. N. Falder. No. 1,355,547; Oct. 12; v. 279; p. 269.
Inkwell. W. J. Somerville. No. 1,355,923; Oct. 19; v. 279; p. 382.
Inlay and orthodontia clamp, Combination. L. P. Wagner. No. 1,348,257; Aug. 3; v. 277; p. 26.
Inner tube. J. M. and J. A. Dirienzo. No. 1,339,948; May 11; v. 274; p. 319.
Inner tube. A. B. Shaw. No. 1,360,453; Nov. 30; v. 280; p. 856.
Innersole. S. Parisi. No. 1,349,095; Aug. 10; v. 277; p. 239.
Innersole-applying device. G. F. Quinby. No. 1,352,145; Sept. 7; v. 278; p. 83.
Inseam-trimming machine. J. O. Perkins. No. 1,331,782; Feb. 24; v. 271; p. 577.
Inseam-trimming machine. F. A. Reardon. No. 1,357,591; Nov. 2; v. 280; p. 73.
Insect-catcher. L. Patton. No. 1,338,587; Apr. 27; v. 273; p. 749.
Insect-destroyer. C. E. Burchfield. No. 1,332,800; Mar. 2; v. 272; p. 119.
Insect-destroyer. D. D. Smith. No. 1,351,407; Aug. 31; v. 277; p. 878.
Insect-exterminator. G. M. Talbert and H. Davis. No. 1,361,293; Dec. 7; v. 281; p. 62.
Insect-guard. J. R. Gleeson. No. 1,335,230; Mar. 30; v. 272; p. 795.
Insect life, Destroying. F. S. Smith. No. 1,352,699; Sept. 14; v. 278; p. 227.
Insect-trap. G. Bonnet. No. 1,353,310; Sept. 21; v. 278; p. 406.
Insect-trap. W. D. Johnson. No. 1,347,906; July 27; v. 276; p. 687.
Insect-trap. L. A. Long. No. 1,335,845; Apr. 6; v. 273; p. 26.
Insole. J. Bergsten. No. 1,334,218; Mar. 16; v. 272; p. 497.
Insole. H. McMaster. No. 1,342,967; June 8; v. 275; p. 319.

Digitized by Google

Alphabetical list of inventions—Continued.

Insole. G. L. Preble. No. 1,340,404; May 18; v. 274; p. 462.
Insole and making same. J. W. Blakeney. No. 1,339,160; May 4; v. 274; p. 95.
Insole and making same. F. N. La Chapelle. No. 1,341,059; May 25; v. 274; p. 658.
Insole-making machine. E. H. Taylor. No. 1,337,290; Apr. 20; v. 273; p. 485.
Insole-rounding machine. C. C. Blake. No. 1,340,520; May 18; v. 274; p. 484.
Instantaneous heater. C. D. McLean. No. 1,355,838; Oct. 19; v. 279; p. 365.
Instep-arch support. W. M. Scholl. No. 1,359,118; Nov. 16; v. 280; p. 478.
Instep-support. W. C. Burns. No. 1,336,278; Apr. 6; v. 273; p. 108.
Instrument, Combination. A. B. Smith. No. 1,357,481; Nov. 2; v. 280; p. 53.
Instrument-holder, Safety. W. R. Hoffmann. No. 1,348,718; Aug. 3; v. 277; p. 113.
Instrument-mounting. E. H. Bristol. No. 1,338,766; May 4; v. 274; p. 22.
Instrument, Surgical and medical. E. Fuchs. No. 1,363,965; Dec. 28; v. 281; p. 725.
Instruments, Compensating device for measuring. C. P. Frey and F. Wagner. No. 1,363,964; Dec. 28; v. 281; p. 724.
Instruments, Securing means for the ends of strings for. O. J. Muller. No. 1,363,902; Dec. 28; v. 281; p. 712.
Instruments to improve quality of tone, Means and method of treating stringed. S. Floresco. No. 1,352,442; Sept. 14; v. 278; p. 175.
Insulated and protected grid. M. O. Smith. No. 1,364,011; Dec. 28; v. 281; p. 784.
Insulated vitreous receptacle. C. W. Davis and F. R. Sunderlin. No. 1,333,795; Mar. 16; v. 272; p. 419.
Insulated vitreous receptacle. C. W. Davis and F. R. Sunderlin. No. 1,333,840; Mar. 16; v. 272; p. 427.
Insulating and sealing composition. G. O. Bassett. No. 1,345,057; June 29; v. 275; p. 920.
Insulating-bodies of "moler," Manufacturing. A. Fenger-Grön. No. 1,338,566; Apr. 27; v. 273; p. 746.
Insulating building-slab. T. Henderson. No. 1,356,764; Oct. 26; v. 279; p. 594.
Insulating-conduit. J. A. Scharwath. No. 1,351,133; Aug. 31; v. 277; p. 817.
Insulating elements, Making. C. H. Thordarson. No. 1,329,815; Feb. 3; v. 271; p. 88.
Insulating-knob. L. Steinberger. No. 1,348,249; Aug. 3; v. 277; p. 24.
Insulating material. J. P. Donavon. No. 1,345,666; July 6; v. 276; p. 66.
Insulating material, Composite. H. F. Weiss. No. 1,336,403; Apr. 6; v. 273; p. 132.
Insulating material, Composite. H. F. Weiss. No. 1,336,404; Apr. 6; v. 273; p. 132.
Insulating material, Manufacturing an. H. S. Ashenhurst. No. 1,353,621; Sept. 21; v. 278; p. 469.
Insulating material, Reinforced. H. S. Ashenhurst. No. 1,353,622; Sept. 21; v. 278; p. 469.
Insulating splice-cover. J. B. Hamilton. No. 1,354,905; Oct. 5; v. 279; p. 91.
Insulation. G. Faccioli. No. 1,350,925; Aug. 24; v. 277; p. 714.
Insulation, Device for undercutting commutator. J. F. Cullin. No. 1,356,810; Oct. 26; v. 279; p. 603.
Insulation of generators in service, Testing the. E. O. Schweitzer. No. 1,358,179; Nov. 9; v. 280; p. 249.
Insulation, Railway-track. J. P. Wright. No. 1,333,526; Mar. 9; v. 272; p. 307.
Insulation, Section-. W. C. McIlvain. No. 1,363,337; Dec. 28; v. 281; p. 604.
Insulation-testing device. W. Dubilier. No. 1,334,141; Mar. 16; v. 272; p. 484.
Insulator. F. M. Amos. No. 1,335,634; Mar. 30; v. 272; p. 871.
Insulator. A. O. Austin. No. 1,360,352; Nov. 30; v. 280; p. 835.
Insulator. A. H. Fargo. No. 1,329,656; Feb. 3; v. 271; p. 58.
Insulator. W. T. Goddard. (Reissue.) No. 14,888; June 22; v. 275; p. 770.
Insulator. R. M. Johnston. No. 1,329,770; Feb. 3; v. 271; p. 79.
Insulator. F. W. Peek, Jr. No. 1,350,936; Aug. 24; v. 277; p. 716.
Insulator. C. F. Sauereisen. No. 1,355,272; Oct. 12; v. 279; p. 216.
Insulator. W. Schaake. No. 1,363,673; Dec. 28; v. 281; p. 668.
Insulator. L. Steinberger. No. 1,335,801; Apr. 6; v. 273; p. 18.
Insulator. J. L. Widmyer. No. 1,361,948; Dec. 14; v. 281; p. 240.
Insulator, Apparatus for forming spark-plug. C. G. Coors. No. 1,362,926; Dec. 21; v. 281; p. 488.
Insulator-attaching members, Method of and machine for applying stops to. A. W. Harrison. No. 1,361,724; Dec. 7; v. 281; p. 149.
Insulator-bracket. C. H. Beine. No. 1,348,534; Aug. 3; v. 277; p. 78.
Insulator-bracket. C. C. Iles. No. 1,333,420; Mar. 9; v. 272; p. 287.
Insulator, Cemented. E. E. F. Creighton. No. 1,360,896; Nov. 30; v. 280; p. 942.
Insulator-clamp. J. Schneider. No. 1,334,802; Mar. 23; v. 272; p. 655.
Insulator, Disk suspension-. L. Steinberger. No. 1,348,248; Aug. 3; v. 277; p. 24.
Insulator, Electric. G. Semensa. No. 1,333,640; Mar. 16; v. 272; p. 390.
Insulator, High-tension. F. O. Blackwell and H. W. Buck. No. 1,362,388; Dec. 14; v. 281; p. 327.
Insulator-pin. R. W. Harms. No. 1,328,732; Jan. 20; v. 270; p. 445.
Insulator, Section-. L. S. Boggs. No. 1,357,215; Nov. 2; v. 280; p. 3.
Insulator, Sectional. J. T. Morgan. No. 1,354,505; Oct. 5; v. 279; p. 11.
Insulator-support. B. A. Plimpton. No. 1,328,687; Jan. 20; v. 270; p. 437.
Insulator, Twin-bar suspension-. S. S. Sonneborn. No. 1,337,284; Apr. 20; v. 273; p. 434.
Insulators. Device for attaching wires to. R. L. Clark. No. 1,358,521; Nov. 9; v. 280; p. 318.
Insulators, Device for attachment of electric conductors to. F. H. Krebs. No. 1,346,128; July 13; v. 276; p. 220.
Insulators in electric precipitators, Device for protecting. A. F. Meston. No. 1,332,510; Mar. 2; v. 272; p. 65.
Insulators, Manufacturing. P. J. H. Bernard. No. 1,340,812; May 18; v. 274; p. 539.
Insulators, Manufacturing. P. J. H. Bernard. No. 1,340,813; May 18; v. 274; p. 539.
Intaglio-plate. E. E. Novotny. No. 1,357,339; Nov. 2; v. 280; p. 27.
Intake and exhaust manifold, Combined. W. S. Harley. No. 1,328,150; Jan. 13; v. 270; p. 299.
Intake-manifold. D. K. Champaign. No. 1,342,159; June 1; v. 275; p. 108.
Intake-manifold. G. Fox. No. 1,347,807; July 27; v. 276; p. 667.
Intake-manifold. T. Ulmer. No. 1,333,142; Mar. 9; v. 272; p. 285.
Intake-manifold heater. R. C. Reichel. No. 1,338,527; Apr. 27; v. 273; p. 738.
Intake manifold, Multiple-. H. P. Sturm. No. 1,347,598; July 27; v. 276; p. 626.
Intake-manifolds, Combined distributer and heater for. J. B. Meriam and H. W. Price. No. 1,361,477; Dec. 7; v. 281; p. 101.
Intake-manifolds, Electrical preheating attachment for automobile. G. T. Newell, Jr. No. 1,344,242; June 22; v. 275; p. 696.
Intake-manifolds, Heater for. G. C. Shinn. No. 1,343,092; June 8; v. 275; p. 343.
Integrations, Method and machine for performing. F. J. Schlink. No. 1,333,637; Mar. 16; v. 272; p. 389.
Intelligence-transmitting system. G. A. Long. No. 1,351,775; Sept. 7; v. 278; p. 12.
Intensifier. H. R. Walker. No. 1,344,528; June 22; v. 275; p. 754.
Intercity exchange, Apparatus for. D. A. Raggio. No. 1,332,411; Mar. 2; v. 272; p. 46.
Interest-computing machine. W. F. Galloway. No. 1,336,900; Apr. 13; v. 273; p. 287.
Interference, Means for neutralizing. W. H. Martin. No. 1,329,842; Feb. 3; v. 271; p. 93.
Interfering disturbances, Means for neutralizing. L. Espenschied. No. 1,362,613; Dec. 21; v. 281; p. 422.
Interfolding-machine. G. H. Bartlett. No. 1,347,242; July 20; v. 276; p. 498.
Interfolding-machine. C. L. Johnston. No. 1,346,602; July 13; v. 276; p. 313.
Interfolding-machine. E. G. Wennerblad. No. 1,358,665; Nov. 9; v. 280; p. 347.
Interfloor heater. A. H. Clarke. No. 1,332,459; Mar. 2; v. 272; p. 54.
Internal brake. H. A. Luce and O. Sonners. No. 1,334,253; Mar. 16; v. 272; p. 504.
Internal-combustion engine. F. Ackermann. No. 1,333,591; Mar. 9; v. 272; p. 320.
Internal-combustion engine. C. H. T. Alston. No. 1,335,952; Apr. 6; v. 273; p. 47.
Internal-combustion engine. C. H. T. Alston. No. 1,342,146; June 1; v. 275; p. 105.
Internal-combustion engine. C. B. Ashworth. No. 1,354,274; Sept. 28; v. 278; p. 644.
Internal-combustion engine. G. L. Badger. No. 1,334,010; Mar. 16; v. 272; p. 459.
Internal-combustion engine. B. F. Baughman. No. 1,343,863; June 15; v. 275; p. 559.
Internal-combustion engine. C. V. Bean. No. 1,329,947; Feb. 3; v. 271; p. 113.
Internal-combustion engine. A. W. Bennis. No. 1,363,708; Dec. 28; v. 281; p. 675.
Internal-combustion engine. A. B. Bernhard. No. 1,345,065; June 29; v. 275; p. 921.
Internal-combustion engine. D. V. Boureau. No. 1,358,513; Nov. 9; v. 280; p. 316.
Internal-combustion engine. L. R. Carpenter. No. 1,345,530; July 6; v. 276; p. 40.
Internal-combustion engine. L. R. Carpenter. No. 1,355,451; Oct. 12; v. 279; p. 251.
Internal-combustion engine. L. R. Carpenter. No. 1,355,452; Oct. 12; v. 279; p. 251.

Digitized by Google

Internal-combustion engine. H. A. Carson. No. 1,331,695; Feb. 24; v. 271; p. 560.
Internal-combustion engine. R. H. Case. No. 1,342,422; June 8; v. 275; p. 211.
Internal-combustion engine. T. B. Casey. No. 1,346,001; July 6; v. 276; p. 133.
Internal-combustion engine. H. Caunt. No. 1,328,265; Jan. 20; v. 270; p. 357.
Internal-combustion engine. A. E. L. Chorlton. No. 1,332,803; Mar. 2; v. 272; p. 120.
Internal-combustion engine. A. E. L. Chorlton. No. 1,362,080; Dec. 14; v. 281; p. 267.
Internal-combustion engine. B. F. Coffman. No. 1,354,535; Oct. 5; v. 279; p. 18.
Internal-combustion engine. W. R. Crofton. No. 1,348,393; Aug. 3; v. 277; p. 52.
Internal-combustion engine. E. Crouse. No. 1,344,263; June 22; v. 275; p. 701.
Internal-combustion engine. W. R. Cummins. No. 1,345,911; July 6; v. 276; p. 115.
Internal-combustion engine. I. M. Davidson. No. 1,357,152; Oct. 26; v. 279; p. 670.
Internal-combustion engine. W. P. Deppe. No. 1,335,665; Mar. 30; v. 272; p. 877.
Internal-combustion engine. J. E. Diamond. No. 1,331,420; Feb. 17; v. 271; p. 488.
Internal-combustion engine. J. E. Diamond. No. 1,341,227; May 25; v. 274; p. 690.
Internal-combustion engine. F. S. and A. S. Duesenberg. No. 1,363,500; Dec. 28; v. 281; p. 635.
Internal-combustion engine. L. H. Dyer. No. 1,339,176; May 4; v. 274; p. 97.
Internal-combustion engine. A. Y. Edwards. No. 1,338,721; May 4; v. 274; p. 14.
Internal-combustion engine. G. R. Elliott. No. 1,361,236; Dec. 7; v. 281; p. 51.
Internal-combustion engine. O. G. Erickson. No. 1,331,632; Feb. 24; v. 271; p. 549.
Internal-combustion engine. W. Falwell. No. 1,356,200; Oct. 19; v. 279; p. 438.
Internal-combustion engine. T. J. Fay. No. 1,352,945; Sept. 14; v. 278; p. 276.
Internal-combustion engine. A. H. R. Fedden. No. 1,346,534; July 13; v. 276; p. 300.
Internal-combustion engine. S. I. Fekete. No. 1,330,436; Feb. 10; v. 271; p. 235.
Internal-combustion engine. A. Fehlmann and G. Hintermann. No. 1,342,950; June 8; v. 275; p. 315.
Internal-combustion engine. S. I. Fekete. No. 1,343,668; June 15; v. 275; p. 520.
Internal-combustion engine. E. A. Field, Jr. No. 1,333,611; Mar. 16; v. 272; p. 384.
Internal-combustion engine. E. A. Field, Jr. No. 1,339,447; May 11; v. 274; p. 224.
Internal-combustion engine. C. V. Fite and C. C. Coddington. No. 1,339,187; May 4; v. 274; p. 99.
Internal-combustion engine. E. L. Folks. No. 1,328,141; Jan. 13; v. 270; p. 298.
Internal-combustion engine. N. Fredriksson. No. 1,334,951; Mar. 30; v. 272; p. 742.
Internal-combustion engine. P. M. Freer. No. 1,331,749; Feb. 24; v. 271; p. 570.
Internal-combustion engine. J. Froelich. No. 1,332,211; Mar. 2; v. 272; p. 6.
Internal-combustion engine. R. M. Gaston. No. 1,351,950; Sept. 7; v. 278; p. 48.
Internal-combustion engine. J. W. George. No. 1,361,978; Dec. 14; v. 281; p. 247.
Internal-combustion engine. G. B. Gerau. No. 1,352,187; Sept. 7; v. 278; p. 90.
Internal-combustion engine. F. H. Gile. No. 1,335,320; Mar. 30; v. 272; p. 812.
Internal-combustion engine. F. H. Gile. No. 1,335,321; Mar. 30; v. 272; p. 812.
Internal-combustion engine. F. H. Gile. No. 1,335,322; Mar. 30; v. 272; p. 812.
Internal-combustion engine. F. H. Gile. No. 1,335,323; Mar. 30; v. 272; p. 813.
Internal-combustion engine. F. H. Gile. No. 1,335,329; Mar. 30; v. 272; p. 814.
Internal-combustion engine. R. F. Gile. No. 1,335,325; Mar. 30; v. 272; p. 813.
Internal-combustion engine. R. F. Gile. No. 1,335,326; Mar. 30; v. 272; p. 813.
Internal-combustion engine. R. F. Gile. No. 1,335,327; Mar. 30; v. 272; p. 813.
Internal-combustion engine. R. F. Gile. No. 1,335,328; Mar. 30; v. 272; p. 814.
Internal-combustion engine. W. A. Gile. No. 1,335,324; Mar. 30; v. 272; p. 813.
Internal-combustion engine. H. W. Gocher. No. 1,332,393; Mar. 2; v. 272; p. 42.
Internal-combustion engine. S. B. Gold. No. 1,350,864; Aug. 24; v. 277; p. 702.
Internal-combustion engine. C. W. Gooding, Jr. No. 1,330,629; Feb. 10; v. 271; p. 271.
Internal-combustion engine. R. P. Grieve. No. 1,345,169; June 29; v. 275; p. 942.
Internal-combustion engine. G. H. Gruss. No. 1,341,367; May 25; v. 274; p. 718.
Internal-combustion engine. F. C. Guerrlich. No. 1,346,123; July 13; v. 276; p. 219.
Internal-combustion engine. F. C. Guerrlich. No. 1,346,124; July 13; v. 276; p. 219.
Internal-combustion engine. F. M. Guy. No. 1,327,202; Jan. 6; v. 270; p. 60.
Internal-combustion engine. S. S. Guy. No. 1,331,911; Feb. 24; v. 271; p. 601.
Internal-combustion engine. S. B. Haessly. No. 1,327,384; Jan. 6; v. 270; p. 94.
Internal-combustion engine. F. S. Hammond. No. 1,349,952; Aug. 17; v. 277; p. 479.
Internal-combustion engine. J. L. Hand. No. 1,350,607; Aug. 24; v. 277; p. 654.
Internal-combustion engine. A. P. Hardwick. No. 1,349,275; Aug. 10; v. 277; p. 275.
Internal-combustion engine. S. E. Harland. No. 1,347,094; July 20; v. 276; p. 469.
Internal-combustion engine. W. H. Hayes. No. 1,345,927; July 6; v. 276; p. 118.
Internal-combustion engine. J. Henderson. No. 1,352,127; Sept. 7; v. 278; p. 80.
Internal-combustion engine. P. D. Hibner. No. 1,342,108; June 1; v. 275; p. 91.
Internal-combustion engine. J. D. Hill. No. 1,347,856; July 27; v. 276; p. 678.
Internal-combustion engine. C. G. Holthaus. No. 1,359,598; Nov. 23; v. 280; p. 619.
Internal-combustion engine. P. T. Houston. No. 1,339,760; May 11; v. 274; p. 283.
Internal-combustion engine. P. T. Houston. No. 1,355,744; Oct. 12; v. 279; p. 307.
Internal-combustion engine. J. Hutchinson. No. 1,356,865; Oct. 26; v. 279; p. 615.
Internal-combustion engine. T. A. Hutsell. No. 1,361,332; Dec. 7; v. 281; p. 70.
Internal-combustion engine. C. F. Jeffries. No. 1,340,229; May 18; v. 274; p. 429.
Internal-combustion engine. R. K. Johnson. No. 1,347,276; July 20; v. 276; p. 506.
Internal-combustion engine. P. D. Johnston. No. 1,344,407; June 22; v. 275; p. 729.
Internal-combustion engine. H. V. J. Jouffret. No. 1,336,298; Apr. 6; v. 273; p. 112.
Internal-combustion engine. H. V. J. Jouffret. No. 1,349,459; Aug. 10; v. 277; p. 311.
Internal-combustion engine. H. V. Jouffret. No. 1,363,123; Dec. 21; v. 281; p. 522.
Internal-combustion engine. J. Kelly. No. 1,360,536; Nov. 30; v. 280; p. 872.
Internal-combustion engine. E. T. Kershaw. No. 1,337,077; Apr. 13; v. 273; p. 321.
Internal-combustion engine. E. T. Kershaw. No. 1,343,142; June 8; v. 275; p. 353.
Internal-combustion engine. E. H. Kimball. No. 1,339,517; May 11; v. 274; p. 237.
Internal-combustion engine. J. M. King. No. 1,361,072; Dec. 7; v. 281; p. 18.
Internal-combustion engine. H. J. Kline. No. 1,360,958; Nov. 30; v. 280; p. 954.
Internal-combustion engine. C. H. Knudsen. No. 1,353,481; Sept. 21; v. 278; p. 440.
Internal-combustion engine. E. M. Lawler. No. 1,354,667; Oct. 5; v. 279; p. 44.
Internal-combustion engine. F. H. Leinweber. No. 1,342,553; June 8; v. 275; p. 237.
Internal-combustion engine. F. H. Leinweber. No. 1,344,641; June 29; v. 275; p. 841.
Internal-combustion engine. W. A. Leitch. No. 1,334,619; Mar. 23; v. 272; p. 619.
Internal-combustion engine. H. Lemp. No. 1,334,104; Mar. 16; v. 272; p. 477.
Internal-combustion engine. A. Lleó and C. Baradat. No. 1,355,484; Oct. 12; v. 279; p. 257.
Internal-combustion engine. N. Lombard. No. 1,335,515; Mar. 30; v. 272; p. 848.
Internal-combustion engine. W. E. Looney. No. 1,338,185; Apr. 27; v. 273; p. 674.
Internal-combustion engine. W. E. Looney. No. 1,345,940; July 6; v. 276; p. 121.
Internal-combustion engine. G. S. MacDonald. No. 1,347,817; July 27; v. 276; p. 669.
Internal-combustion engine. W. P. Macdonald. No. 1,361,390; Dec. 7; v. 281; p. 82.
Internal-combustion engine. C. C. Manker. No. 1,345,614; July 6; v. 276; p. 56.
Internal-combustion engine. H. Manrodt. No. 1,332,850; Mar. 2; v. 272; p. 33.
Internal-combustion engine. W. H. Martyn. No. 1,355,615; Oct. 12; v. 279; p. 282.
Internal-combustion engine. R. D. Maulis. No. 1,354,772; Oct. 5; v. 279; p. 65.
Internal-combustion engine. G. S. Maxwell. No. 1,339,035; May 4; v. 274; p. 71.
Internal-combustion engine. L. Mayers. No. 1,327,345; Jan. 6; v. 270; p. 86.
Internal-combustion engine. A. Moeglin. No. 1,351,783; Sept. 7; v. 278; p. 13.
Internal-combustion engine. S. D. Mott. No. 1,355,348; Oct. 12; v. 279; p. 231.
Internal-combustion Engine. J. W. Mowbray. No. 1,356,730; Oct. 26; v. 279; p. 588.
Internal-combustion engine. C. L. E. Mueller. No. 1,360,561; Nov. 30; v. 280; p. 877.
Internal-combustion engine. O. T. Nelson. No. 1,336,371; Apr. 6; v. 273; p. 126.

Digitized by Google

Alphabetical list of inventions—Continued.

Internal-combustion engine. O. T. Nelson. No. 1,336,372; Apr. 6; v. 273; p. 126.
Internal-combustion engine. B. V. E. Nordberg. No. 1,362,815; Dec. 21; v. 281; p. 462.
Internal-combustion engine. P. Ostenberg. No. 1,341,152; May 25; v. 274; p. 476.
Internal-combustion engine. E. H. Palmer. No. 1,328,685; Jan. 20; v. 270; p. 436.
Internal-combustion engine. A. M. Patton. No. 1,346,672; v. 276; p. 327.
Internal-combustion engine. A. R. Petterson. No. 1,357,512; Nov. 2; v. 280; p. 58.
Internal-combustion engine. W. O. Platt and J. Reid. No. 1,341,478; May 25; v. 274; p. 739.
Internal-combustion engine. H. L. Rogers. No. 1,362,541; Dec. 14; v. 281; p. 357.
Internal-combustion engine. C. J. Roos. No. 1,361,619; Dec. 7; v. 281; p. 129.
Internal-combustion engine. A. J. Rowledge. No. 1,339,423; May 11; v. 274; p. 219.
Internal-combustion engine. F. Schmidt. No. 1,331,281; Feb. 17; v. 271; p. 461.
Internal-combustion engine. L. D. Slusser. No. 1,356,792; Oct. 26; v. 279; p. 600.
Internal-combustion engine. J. W. Smith. No. 1,329,811; Feb. 3; v. 271; p. 87.
Internal-combustion engine. G. A. Smith. No. 1,361,503; Dec. 7; v. 281; p. 106.
Internal-combustion engine. G. J. Spohrer. No. 1,361,109; Dec. 7; v. 281; p. 26.
Internal-combustion engine. G. J. Spohrer. No. 1,361,110; Dec. 7; v. 281; p. 26.
Internal-combustion engine. A. J. Stimson. No. 1,335,134; Mar. 30; v. 272; p. 778.
Internal-combustion engine. M. E. Stockwell. No. 1,342,723; June 8; v. 275; p. 270.
Internal-combustion engine. F. Stokes. No. 1,347,919; July 27; v. 276; p. 690.
Internal-combustion engine. F. Stokes. No. 1,353,289; Sept. 21; v. 278; p. 402.
Internal-combustion engine. H. C. Stoll. No. 1,361,114; Dec. 7; v. 281; p. 27.
Internal-combustion engine. E. Stuke. No. 1,357,911; Nov. 2; v. 280; p. 136.
Internal-combustion engine. P. J. M. Sullivan. No. 1,335,764; Apr. 6; v. 273; p. 12.
Internal-combustion engine. C. H. Taylor. No. 1,330,408; Feb. 10; v. 271; p. 230.
Internal-combustion engine. C. H. Taylor. No. 1,330,409, Feb. 10; v. 271; p. 230.
Internal-combustion engine. J. S. Taylor. No. 1,339,870; May 11; v. 274; p. 304.
Internal-combustion engine. J. G. P. Thomas. No. 1,346,280; July 13; v. 276; p. 250.
Internal-combustion engine. H. L. Thompson. No. 1,342,976; June 8; v. 275; p. 320.
Internal-combustion engine. H. L. Thompson. No. 1,351,880; Sept. 7; v. 278; p. 34.
Internal-combustion engine. W. W. Tompkins. No. 1,334,684; Mar. 23; v. 272; p. 631.
Internal-combustion engine. B. W. Traylor. No. 1,360,828; Nov. 30; v. 280; p. 929.
Internal-combustion engine. L. L. Turney. No. 1,337,417; Apr. 20; v. 273; p. 459.
Internal-combustion engine. H. L. Van Horning. No. 1,338,342; Apr. 27; v. 273; p. 704.
Internal-combustion engine. J. W. Van Meter. No. 1,361,648; Dec. 7; v. 281; p. 134.
Internal-combustion engine. W. E. Ver Planck. No. 1,347,768; July 27; v. 276; p. 660.
Internal-combustion engine. F. S. Wahl. No. 1,338,056; Apr. 27; v. 273; p. 650.
Internal-combustion engine. S. L. Walden. No. 1,359,939; Nov. 23; v. 280; p. 686.
Internal-combustion engine. G. A. Weidely. No. 1,345,048; June 29; v. 275; p. 918.
Internal-combustion engine. J. D. Wein. No. 1,343,858; June 15; v. 275; p. 558.
Internal-combustion engine. F. G. Welke. No. 1,335,947; Apr. 6; v. 273; p. 46.
Internal-combustion engine. J. Whitcomb. No. 1,333,696; Mar. 16; v. 272; p. 400.
Internal-combustion engine. C. White. No. 1,351,980; Sept. 7; v. 278; p. 53.
Internal-combustion engine. D. L. Wickersham. No. 1,356,576; Oct. 26; v. 279; p. 557.
Internal-combustion engine. C. C. Wickwire. No. 1,342,483; June 8; v. 275; p. 223.
Internal-combustion engine. W. G. Williams. No. 1,365,723; July 6; v. 276; p. 78.
Internal-combustion engine. B. S. Williams. No. 1,355,441; Oct. 12; v. 279; p. 248.
Internal-combustion engine. M. Wolcula. No. 1,342,368; June 1; v. 275; p. 147.
Internal-combustion engine. M. A. Yeakley. No. 1,335,310; Mar. 30; v. 272; p. 810.
Internal-combustion engine and valve mechanism therefor. A. E. Osborn. No. 1,354,334; Sept. 28; v. 278; p. 656.
Internal-combustion engine, Combination reciprocal and turbine. F. E. Covey. No. 1,340,527; May 18; v. 274; p. 485.
Internal-combustion-engine-cylinder-soldering metal composition. M. A. Willoughby. No. 1,355,202; Oct. 12; v. 279; p. 202.
Internal-combustion engine. Four-stroke-cycle. A. C. Greten and F. Musman. No. 1,354,101; Sept. 28; v. 278; p. 609.
Internal-combustion engine, Multicylinder. A. Lleó and C. Baradat. No. 1,355,485; Oct. 12; v. 279; p. 257.
Internal-combustion engine, Multiple-expansion. H. J. Scharnagel. No. 1,353,542; Sept. 21; v. 278; p. 452.
Internal-combustion engine, Reversible. A. E. Osborn. No. 1,348,955; Aug. 10; v. 277; p. 211.
Internal-combustion engine, Rotary. E. Durr, No. 1,343,316; June 15; v. 275; p. 450.
Internal-combustion engine, Rotary. O. J. Eisele. No. 1,333,204; Mar. 9; v. 272; p. 247.
Internal-combustion engine, Rotary. W. Erickson. No. 1,333,399; Mar. 9; v. 272; p. 283.
Internal-combustion engine, Rotary. E. L. Heits. No. 1,332,397; Mar. 2; v. 272; p. 43.
Internal-combustion engine, Rotary. H. L. Kline. No. 1,341,854; June 1; v. 275; p. 47.
Internal-combustion engine, Rotary. L. J. Root. No. 1,332,756; Mar. 2; v. 272; p. 111.
Internal-combustion engine, Rotary. H. R. Sieverkropp. No. 1,338,256; Apr. 27; v. 273; p. 688.
Internal-combustion engine, Rotating. J. J. Walk. No. 1,344,158; June 22; v. 275; p. 680.
Internal-combustion engine, Sleeve-valve. H. V. J. Joufret. No. 1,358,538; Nov. 9; v. 280; p. 325.
Internal-combustion-engine-testing device. R. G. Edgerton. No. 1,344,387; June 22; v. 275; p. 726.
Internal-combustion engine, Two-cycle rotary-cylinder. A. R. Long. No. 1,350,260; Aug. 17; v. 277; p. 539.
Internal-combustion engine, Two-stroke. K. A. T. Berg. No. 1,350,135; Aug. 17; v. 277; p. 515.
Internal-combustion engine, Two-stroke. F. P. Flint. No. 1,342,105; June 1; v. 275; p. 97.
Internal-combustion engine, Two-stroke. A. Isliker. No. 1,336,232; Apr. 6; v. 273; p. 109.
Internal-combustion motor. J. F. O. Ohborg. No. 1,331,665; Feb. 24; v. 272; p. 555.
Internal-combustion engine, Two-stroke. R. A. Williams. No. 1,354,931; Oct. 5; v. 279; p. 96.
Internal-combustion engine, Two-stroke-cycle. T. L. Carbone and P. Metzler. No. 1,361,680; Dec. 7; v. 281; p. 141.
Internal-combustion engine, Two-stroke-cycle. V. Spuhler. No. 1,346,066; July 6; v. 276; p. 146.
Internal-combustion engines, Apparatus for starting. J. Brizon. No. 1,363,637; Dec. 28; v. 281; p. 661.
Internal-combustion engines, Governing device for. E. Moore. No. 1,363,745; Dec. 28; v. 281; p. 682.
Internal-combustion engines, Priming device for. B. J. Donada. No. 1,363,093; Dec. 21; v. 281; p. 516.
Internal-combustion machine. I. Santos y Suarez and R. de Arozarena y Mendive. No. 1,349,111; Aug. 10; v. 277; p. 242.
Internal-combustion motor. E. E. Allyne. No. 1,347,475; July 20; v. 276; p. 544.
Internal-combustion motor. A. L. Anderson. No. 1,357,133; Oct. 26; v. 279; p. 667.
Internal-combustion motor. H. M. Boise. No. 1,340,223; May 18; v. 274; p. 428.
Internal-combustion motor. Z. Jeffries. No. 1,347,479; July 20; v. 276; p. 545.
Internal-combustion motor. Z. Jeffries. No. 1,347,480; July 20; v. 276; p. 545.
Internal-combustion motor. G. A. Metcalf. No. 1,355,158; Oct. 12; v. 279; p. 193.
Internal-combustion motor. A. L. Smith. No. 1,336,392; Apr. 6; v. 273; p. 130.
Internal-combustion rotary engine. J. W. Birdzell. No. 1,338,207; Apr. 27; v. 273; p. 679.
Internal-combustion rotary engine. H. J. Carmody. No. 1,347,731; July 27; v. 276; p. 652.
Internal-combustion rotary engine. H. G. Howitt, W. J. Prichard, and J. Evans. No. 1,354,189; Sept. 28; v. 278; p. 626.
Internal-combustion rotary engine. H. Kawate. No. 1,358,450; Nov. 9; v. 280; p. 304.
Internal-combustion rotary engine. S. L. Noble. No. 1,329,625; Feb. 3; v. 271; p. 52.
Internal-combustion turbine-engine. G. H. Hemingway. No. 1,331,766; Feb. 24; v. 271; p. 574.
Internal-explosive engine. R. R. Dietrich. No. 1,340,651; May 18; v. 274; p. 509.
Internal tube-heater, Electric. H. Gutzwiller. No. 1,336,559; Apr. 13; v. 273; p. 221.
Interrupter mechanism. W. H. Richter. No. 1,348,185; Aug. 3; v. 277; p. 10.
Invalid's table. J. Jakubowski. No. 1,332,498; Mar. 2; v. 272; p. 62.
Invalids, Means for lifting and transporting. S. S. Jenkins. No. 1,349,674; Aug. 17; v. 277; p. 426.
Invalids or patients, Device for supporting and carrying. L. D. Mote. No. 1,347,549; July 27; v. 276; p. 616.
Invalids, Self-assisting apparatus for. J. F. Cooley. No. 1,350,297; Aug. 24; v. 277; p. 592.
Iodin, Apparatus for purifying. R. M. Carter. No. 1,329,457; Feb. 3; v. 271; p. 22.
Iodin-applicator. H. Sweet. No. 1,332,859; Mar. 2; v. 272; p. 130.

Digitized by Google

Iodin dusting-powder and making same. N. Sulzberger. No. 1,329,148; Jan. 27; v. 270; p. 553.
Ionized-chamber device. C. D. Babcock. No. 1,341,006; May 25; v. 274; p. 648.
Iron: *See*—
Bessemerizing iron.
Branding-iron.
Camp-iron.
Chair-iron.
Electric iron.
Electric steam-iron.
Flatiron.
Marcel iron.
Puff-iron.
Puddling-iron.
Sadiron.
Shoe-treeing iron.
Soldering-iron.
Stake-rack iron.
Waffle-iron.
Iron. Y. Harada. No. 1,326,928; Jan. 6; v. 270; p. 9.
Iron and refined steel from titaniferous iron ores, Direct production of refined. J. J. and W. A. Loke. No. 1,328,636; Jan. 20; v. 270; p. 428.
Iron and steel bars, Producing. L. Jones. No. 1,354,492; Oct. 5; v. 279; p. 9.
Iron and steel, Carbonizing. J. H. L. De Bats. No. 1,335,094; Mar. 30; v. 272; p. 770.
Iron and steel, Composition for coating. A. C. Holzapfel and P. Walther. No. 1,328,282; Jan. 20; v. 270; p. 360.
Iron and steel, Compound for tempering. B. V. Aldrich. No. 1,361,298; Dec. 7; v. 281; p. 63.
Iron and steel, Manufacture of. H. B. Clapp. No. 1,330,846; Feb. 17; v. 271; p. 380.
Iron and steel, Manufacture of. H. Lang. No. 1,340,548; May 18; v. 274; p. 489.
Iron and steel, Manufacture of. S. Whyte. No. 1,345,051; June 29; v. 275; p. 919.
Iron and steel directly from the ore and apparatus therefor, Manufacture of. L. P. Basset. No. 1,360,711; Nov. 30; v. 280; p. 906.
Iron and steel plates, Finishing. C. Williams. No. 1,342,484; June 8; v. 275; p. 223.
Iron and steel, Production of. C. S. Bradley. No. 1,353,716; Sept. 21; v. 278; p. 488.
Iron and steel, Solution for treatment of. T. I. Murphy. No. 1,351,961; Sept. 7; v. 278; p. 50.
Iron bars, Mill-train for the manufacture of small and medium. R. Linard. No. 1,348,230; Aug. 3; v. 277; p. 20.
Iron composition. G. G. Marx. No. 1,339,469; May 11; v. 274; p. 228.
Iron compounds, Manufacturing. B. S. Penniman, Jr., and N. M. Zoph. No. 1,327,061; Jan. 6; v. 270; p. 85.
Iron, Desulfurizing cast-. C. Ellis. No. 1,335,370; Mar. 30; v. 272; p. 822.
Iron, Enhancing rust-resisting qualities of. G. H. Charls. No. 1,355,590; Oct. 12; v. 279; p. 277.
Iron from its ores, Extracting. C. C. Jones. No. 1,348,804; Aug. 3; v. 277; p. 129.
Iron, Manufacture of. G. J. Stock. No. 1,333,824; Mar. 16; v. 272; p. 424.
Iron or steel articles, Coloring. H. F. Jermain. No. 1,342,910; June 8; v. 275; p. 308.
Iron or steel or alloys thereof, Means to be employed in the electric welding of. A. C. Hyde. No. 1,341,558; May 25; v. 274; p. 755.
Iron ore, Treating titaniferous. J. J. W. H. van der Toorn. No. 1,334,004; Mar. 16; v. 272; p. 458.
Iron ores into iron, steel, or cast-iron, Directly and completely transforming and reducing. G. Jakova-Merturi. No. 1,329,055; Jan. 27; v. 270; p. 536.
Iron ores, Treatment of. C. R. Hayward, F. O. Stillman, and H. M. Schleicher. No. 1,341,901; June 1; v. 275; p. 56.
Iron silicid, Producing articles of. N. Petinot. No. 1,346,333; July 13; v. 276; p. 261.
Irons, Alternated time-controlled mechanism for. J. A. Oca-Balda. No. 1,350,933; Aug. 24; v. 277; p. 716.
Irons, Apparatus for testing. A. Ponzo and G. Colonnetti. No. 1,335,985; Apr. 6; v. 273; p. 53.
Irons, Switch attachment for electric. C. H. Helling. No. 1,342,905; June 8; v. 275; p. 307.
Ironer and moulder for overalls and trousers. O. Pickelsimer. No. 1,354,438; Sept. 28; v. 278; p. 677.
Ironer, Necktie-. H. Miller. No. 1,329,919; Feb. 3; v. 271; p. 107.
Ironing-board. G. Adams. No. 1,357,017; Oct. 26; v. 279; p. 644.
Ironing-board. V. M. De Cano. No. 1,332,715; Mar. 2; v. 272; p. 103.
Ironing-board. J. H. D. Everett. No. 1,352,361; Sept. 7; v. 278; p. 124.
Ironing-board. J. J. Flaherty. No. 1,331,635; Feb. 24; v. 271; p. 549.
Ironing-board. F. C. Fuelling. No. 1,337,512; Apr. 20; v. 273; p. 477.
Ironing-board. I. Graves. No. 1,352,259; Sept. 7; v. 278; p. 105.
Ironing-board. P. D. Martindale. No. 1,337,936; Apr. 20; v. 273; p. 558.
Ironing-board. R. Raby. No. 1,359,744; Nov. 23; v. 280; p. 648.
Ironing-board. C. I. Spayd. No. 1,348,064; July 27; v. 276; p. 719.
Ironing-board. A. M. Springer. No. 1,359,124; Nov. 16; v. 280; p. 480.
Ironing-board. D. Troutman. No. 1,347,132; July 20; v. 276; p. 476.
Ironing-board. W. W. West. No. 1,362,278; Dec. 14; v. 281; p. 306.
Ironing-board and chair, Combination. J. J. Dunwoody. No. 1,333,392; Mar. 9; v. 272; p. 282.
Ironing-board and container, Combined. W. A. Rankin. No. 1,334,792; Mar. 23; v. 272; p. 653.
Ironing-board attachment. O. P. Seeley, Jr. No. 1,330,724; Feb. 10; v. 271; p. 289.
Ironing-board fastener. W. C. Jackson. No. 1,337,073; Apr. 13; v. 273; p. 320.
Ironing-board, Folding. V. M. De Cano. No. 1,350,857; Aug. 24; v. 277; p. 701.
Ironing-board, Folding. J. A. Dice. No. 1,353,729; Sept. 21; v. 278; p. 491.
Ironing-board, Folding. R. Fox. No. 1,340,265; May 18; v. 274; p. 436.
Ironing-board, Folding. E. L. Terry. No. 1,329,257; Jan. 27; v. 270; p. 574.
Ironing-board, Folding portable. L. L. Locke. No. 1,339,831; May 11; v. 274; p. 297.
Ironing board, Necktie-. M. A. C. McCarthy. No. 1,356,378; Oct. 19; v. 279; p. 472.
Ironing-board, stepladder, and sled, Convertible. D. Calarco. No. 1,335,652; Mar. 30; v. 272; p. 874.
Ironing-boards, Collapsible supporting and leveling frame for. J. A. Reed. No. 1,359,527; Nov. 23; v. 280; p. 605.
Ironing-machine. W. H. Batterson. No. 1,362,918; Dec. 21; v. 281; p. 481.
Ironing-machine. B. W. Brockett and A. L. Lord. No. 1,329,502; Feb. 3; v. 271; p. 80.
Ironing-machine. C. E. Capman. No. 1,340,522; May 18; v. 274; p. 484.
Ironing-machine. A. J. Fisher. No. 1,327,618; Jan. 13; v. 270; p. 198.
Ironing-machine. A. J. Fisher. No. 1,332,892; Mar. 9; v. 272; p. 188.
Ironing-machine. A. J. Fisher. No. 1,351,031; Aug. 31; v. 277; p. 798.
Ironing-machine. L. H. Freeman. No. 1,329,519; Feb. 3; v. 271; p. 33.
Ironing-machine. L. H. Freeman. No. 1,336,427; Apr. 13; v. 273; p. 196.
Ironing-machine. M. J. Reilly. No. 1,359,745; Nov. 23; v. 280; p. 648.
Ironing-machine. W. H. Yerkes. No. 1,362,980; Dec. 21; v. 281; p. 493.
Ironing-machine attachment. G. F. Ramm. No. 1,351,688; Aug. 31; v. 277; p. 928.
Ironing-machine for pressing the seams of clothing. H. B. Cranage. No. 1,356,044; Oct. 19; v. 279; p. 406.
Ironing machine, Seam-. G. Boulton and G. J. Gorsuch. No. 1,352,417; June 8; v. 275; p. 210.
Ironing machine, Shoe-top-. L. A. Morrill and E. N. Gynan. No. 1,357,337; Nov. 2; v. 280; p. 26.
Ironing-machine-shaft support. W. Bartholomew. No. 1,330,832; Feb. 17; v. 271; p. 377.
Ironing machine, Shirt-bosom-. F. Balzer. No. 1,328,807; Jan. 27; v. 270; p. 488.
Ironing-table, Combination. C. G. Jones. No. 1,328,000; Jan. 13; v. 270; p. 271.
Ironing-machines, Controlling mechanism for electric motors for. I. Bond. No. 1,339,917; May 11; v. 274; p. 313.
Ironing-machines, Safety mechanism for. W. Bartholomew. No. 1,346,872; July 20; v. 276; p. 425.
Ironing-support. S. E. Durant. No. 1,342,278; June 1; v. 275; p. 131.
Irrigating apparatus. H. B. French. No. 1,355,222; Oct. 12; v. 279; p. 206.
Irrigating apparatus, Movable. A. Ramén. No. 1,346,843; July 20; v. 276; p. 419.
Irrigation-dam. H. J. Cully. No. 1,356,268; Oct. 19; v. 279; p. 451.
Irrigating device, Plant-. D. R. White. No. 1,342,786; June 8; v. 275; p. 283.
Irrigating device, Portable. F. Sullivan. No. 1,350,684; Aug. 24; v. 277; p. 669.
Irrigation-ditches for measuring water, Weir for. M. H. Tucker. No. 1,352,929; Sept. 14; v. 278; p. 273.
Irrigation-ditches, Sand-guard for. E. Dringman. No. 1,348,554; Aug. 3; v. 277; p. 82.
Irrigation means. W. H. Lewis. No. 1,343,871; June 15; v. 275; p. 561.
Irrigation-pipe system. G. W. Rice. No. 1,336,048; Apr. 6; v. 273; p. 65.
Irrigator shut-off. E. Heap. No. 1,340,828; May 18; v. 274; p. 542.
Irrigator, Surgical. G. Aprile. No. 1,355,727; Oct. 12; v. 279; p. 304.

Digitized by Google

Jack: *See*—
Antifriction-jack.
Auto-jack.
Automatic jack.
Automobile-jack.
Automobile-wheel jack.
Drill tightening and loosening jack.
Flexible-base jack.
Floor-laying jack.
Furniture-jack.
Garage-jack.
High-speed jack.
Hoisting-jack.
Horseshoeing-jack.
Hub-jack.
Hydraulic jack.
Hydraulic gear-jack.
Lifting-jack.
Power-jack.
Pump-jack.
Pumping-jack.
Quick-action jack.
Ratchet-jack.
Screw-jack.
Shoemaker's jack.
Smoke-jack.
Stationary jack.
Tire-rim-expanding jack.
Vehicle-jack.
Window-jack.

Jack. A. O. Alsten. No. 1,349,801; Aug. 17; v. 277; p. 451.
Jack. E. B. Bird. No. 1,344,575; June 22; v. 275; p. 763.
Jack. W. D. Boyd. No. 1,332,598; Mar. 2; v. 272; p. 81.
Jack. J. H. Burkholder. No. 1,335,479; Mar. 30; v. 272; p. 842.
Jack. J. H. Dorman. No. 1,338,682; May 4; v. 274; p. 6.
Jack. L. G. Fischer. No. 1,363,240; Dec 28; v. 281; p. 585.
Jack. R. B. Jester. No. 1,348,879; Aug. 10; v. 277; p. 197.
Jack. J. C. Kopf. No. 1,337,519; Apr. 20; v. 273; p. 478.
Jack. J. J. Kuntz. No. 1,342,389; June 1; v. 275; p. 151.
Jack. J. Lafrance. No. 1,362,630; Dec 21; v. 281; p. 425.
Jack. A. B. Lang. No. 1,361,593; Dec. 7; v. 281; p. 124.
Jack. W. T. Learmonth. No. 1,347,862; July 27; v. 276; p. 679.
Jack. C. J. Livering. No. 1,343,872; June 15; v. 275; p. 561.
Jack. L. Marinsky. No. 1,363,668; Dec. 28; v. 281; p. 667.
Jack. S. Santino. No. 1,339,582; May 11; v. 274; p. 249.
Jack. S. Santino. No. 1,339,583; May 11; v. 274; p. 249.
Jack. P. W. Schleman. No. 1,329,098; Jan. 27; v. 270; p. 543.
Jack. E. E. Thomson. No. 1,359,849; Nov. 23; v. 280; p. 668.
Jack. J. F. Willey. No. 1,339,613; May 11; v. 274; p. 256.
Jack-bar. J. C. Kopf. No. 1,341,856; June 1; v. 275; p. 48.
Jack-base. H. I. Benedict. No. 1,328,115; Jan. 13; v. 270; p. 292.
Jack-centering device. J. A. Garcia. No. 1,337,065; Apr. 13; v. 273; p. 319.
Jack or shore, Adjustable. C. M. Markham. No. 1,349,576; Aug. 17; v. 277; p. 407.
Jack stand, Repair-. J. P. Marshall. No. 1,350,555; Aug. 24; v. 277; p. 644.
Jack with rotatable cams, Lifting-. A. Peteler. No. 1,352,472; Sept. 14; v. 278; p. 181.
Jacks, Auxiliary lever attachment for. S. P. Barker. No. 1,362,462; Dec. 14; v. 281; p. 341.
Jacks, Base for. A. E. Hutchison and H. Krah. No. 1,350,970; Aug. 24; v. 277; p. 723.
Jacket, Adjustable. R. S. Buch. No. 1,327,224; Jan. 6; v. 270; p. 65.
Jacquard-machine. F. Glatzel. No. 1,332,122; Feb. 24; v. 271; p. 640.
Jacquard mechanism. H. Janssen. No. 1,339,957; May 11; v. 274; p. 321.
Jam-receptacle. R. M. Momery. No. 1,329,989; Feb. 3; v. 271; p. 120.
Japan. H. Chislet. No. 1,357,688; Nov. 2; v. 280; p. 92.

Jar: *See*—
Battery-jar.
Fruit-jar.
Preserving-jar.
Sampling-jar.
Storage-battery jar.

Jar. A. L. Schram. No. 1,353,277; Sept. 21; v. 278; p. 400.
Jar and bottle lifter, Fruit-. A. C. Burlingame. No. 1,337,540; Apr. 20; v. 273; p. 483.
Jar and can lifter. S. A. Hilley. No. 1,348,416; Aug. 3; v. 277; p. 57.
Jar-cap wrench. O. Verret, Jr. No. 1,355,020; Oct. 5; v. 279; p. 113.
Jar-carrier. R. P. Rolston. No. 1,360,977; Nov. 30; v. 280; p. 958.
Jar-closure. Q. A. Gates. No. 1,341,897; June 1; v. 275; p. 56.
Jar-closure. H. D. Quarrier. No. 1,341,382; May 25; v. 274; p. 720.
Jar-closure. C. H. Spooner. No. 1,351,496; Aug. 31; v. 277; p. 890.
Jar-closure cap. A. D. Moody. No. 1,363,896; Dec. 28; v. 281; p. 711.
Jar-closure fastener. G. Trubel. No. 1,355,289; Oct. 12; v. 279; p. 219.
Jar closure, Milk-. F. K. Plympton. No. 1,362,181; Dec. 14; v. 281; p. 286.
Jar-closure-releasing means. W. M. Shelton. No. 1,351,304; Aug. 31; v. 277; p. 852.
Jar-cover remover. E. J. Larson. No. 1,353,452; Nov. 9; v. 280; p. 305.
Jar-cover remover. F. L. Reed. No. 1,337,158; Apr. 13; v. 273; p. 335.
Jar fastener, Fruit-. L. A. Drey and J. L. Hiatt. No. 1,352,119; Sept. 7; v. 278; p. 78.
Jar-handling device. L. C. Snyder. No. 1,358,593; Nov. 9; v. 280; p. 332.
Jar-holder. H. R. Gray. No. 1,331,758; Feb. 24; v. 271; p. 572.
Jar-holder. P. J. Timberlake. No. 1,330,663; Feb. 10; v. 271; p. 277.
Jar-holder. J. H. Weaver. No. 1,346,732; July 13; v. 276; p. 339.
Jar holder, Fruit-. J. H. Tobin. No. 1,360,826; Nov. 30; v. 280; p. 929.
Jar-lifter. V. F. Deats. No. 1,359,968; Nov. 23; v. 280; p. 692.
Jar-lifter. B. W. Genung. No. 1,341,502; May 25; v. 274; p. 744.
Jar-lifter. J. L. Kivlan. No. 1,360,227; Nov. 23; v. 280; p. 743.
Jar-lifter. H. Morley. No. 1,336,255; Apr. 6; v. 273; p. 104.
Jar-lifter. A. K. Sheppard. No. 1,348,059; July 27; v. 276; p. 718.
Jar-lifter. A. G. Shrauger. No. 1,353,282; Sept. 21; v. 278; p. 401.
Jar machines, Transfer device for fruit-. R. B. Pottorff. No. 1,336,317; Apr. 6; v. 273; p. 115.
Jar-opener. O. Arndt. No. 1,348,532; Aug. 3; v. 277; p. 78.
Jar-opener. D. Tower. No. 1,357,914; Nov. 2; v. 280; p. 136.
Jar-opener, Fruit-. C. F. Standish. No. 1,359,629; Nov. 23; v. 280; p. 625.
Jar opener or wrench. H. G. Wernimont. No. 1,330,505; Feb. 10; v. 271; p. 248.
Jar opener, Vacuum-. A. W. Stevenson. No. 1,361,639; Dec. 7; v. 281; p. 133.
Jar-rack. J. L. Kivlan. No. 1,348,807; Aug. 3; v. 277; p. 130.
Jar-seal tester. E. B. Birkenbeuel. No. 1,340,478; May 18; v. 274; p. 475.
Jar vise, Fruit-. C. A. Mersman. No. 1,353,058; Sept. 14. v. 278; p. 298.
Jar wrench and holder. F. F. Girard. No. 1,337,899; Apr. 20; v. 273; p. 551.
Jars, bottles, and other receptacles, Closure for. A. and H. Ingram. No. 1,346,653; July 13; v. 276; p. 323.
Jars, bottles, and other receptacles, Closure for. A. and H. Ingram. No. 1,346,654; July 13; v. 276; p. 324.
Jars, bottles, and other receptacles, Closure for. A. and H. Ingram. No. 1,353,396; Sept. 21; v. 278; p. 423.
Jars, bottles, and other receptacles, Closure for. A. and H. Ingram. No. 1,353,397; Sept. 21; v. 278; p. 423.
Jars, bottles, and other receptacles, Closure for. A. and H. Ingram. No. 1,353,399; Sept. 21; v. 278; p. 424.
Jars, bottles, and other receptacles, Closure for. A. and H. Ingram. No. 1,353,400; Sept. 21; v. 278; p. 424.
Jars, bottles, and other receptacles, Closure for. A. and H. Ingram. No. 1,353,909; Sept. 28; v. 278; p. 569.
Jaw-closer. J. S. Donnellan. No. 1,358,625; Nov. 9; v. 280; p. 339.
Jaw-trap. G. W. Smith. No. 1,349,697; Aug. 17; v. 277; p. 431.
Jelly making. M. O. Johnson. No. 1,362,869; Dec. 21; v. 281; p. 473.
Jewel-grinding machine. C. Stone. No. 1,338,406; Apr. 27; v. 273; p. 716.
Jeweler's pin-pointer. J. A. Legrandeur. No. 1,347,547; July 27; v. 276; p. 615.
Jeweler's torch. J. Kreisler. No. 1,362,877; Dec. 21; v. 281; p. 474.
Jewelry and manufacturing same. H. W. Fishel. No. 1,361,704; Dec. 7; v. 281; p. 146.
Jewelry and manufacturing same. H. W. Fishel. No. 1,361,705; Dec. 7; v. 281; p. 146.
Jewelry-clasp. A. L. Eliasoff and C. Birnbaum. No. 1,352,591; Sept. 14; v. 278; p. 205.
Jewelry-clasp. L. Tomchin. No. 1,361,645; Dec. 7; v. 281; p. 134.
Jewelry, Cluster-back for. O. P. Baller. No. 1,343,246; June 15; v. 275; p. 437.
Jewelry-setting. B. K. Benson. No. 1,344,111; June 22; v. 275; p. 671.
Jewelry-setting. G. W. Dover. No. 1,328,948; Jan. 27; v. 270; p. 516.
Jewelry-setting. G. W. Dover. No. 1,328,949; Jan. 27; v. 270; p. 916.
Jewelry, Setting for. G. W. Dover. No. 1,353,822; Sept. 28; v. 278; p. 552.
Jig. J. B Barbee. No. 1,328,778; Jan. 20; v. 270; p. 453.
Jig. G. H. Elmore. No. 1,327,537; Jan. 6; v. 270; p. 123.
Jig, Concentrating-. G. Glockemeier. No. 1,354,550; Oct. 5; v. 279; p. 21.
Jigs, Discharge control for. G. H. Elmore. No. 1,350,647; Aug. 24; v. 277; p. 661.
Joiner's clamp. H. Müller. No. 1,346,236; July 13; v. 276; p. 240.
Joining materials. J. W. Harris. No. 1,359,594; Nov. 23; v. 280; p. 618.

Digitized by Google

Joint: *See*—
Ankle-joint.
Ball-joint.
Ball-and-socket joint.
Bedstead corner-joint.
Concrete-pipe joint.
Expansion-joint.
Furnace-joint.
Limb-joint.
Metallic joint.
Metallic-structure joint.
Packless joint.
Pipe-joint.
Pivoted joint.
Rail-joint.
Railway-joint.
Rod-joint.
Roof-ventilator joint.
Sucker-rod joint.
Tool-joint.
Trestle-joint.
Tube-joint.
Universal joint.
Welded joint.
Windshield-joint.

Joint. G. L. Beitner. No. 1,342,979; June 8; v. 275; p. 321.

Joint and means for retaining lubricant therein, Universal. T. M. Hardy. No. 1,357,320; Nov. 2; v. 280; p. 23.

Joint-assembling machine. L. L. Randall and E. A. Fries. No. 1,338,697; May 4; v. 274; p. 9.

Joint connection, Pivot or knuckle-. E. A. Lowe. No. 1,363,477; Dec. 28; v. 281; p. 630.

Joint-coupling. A. H. Robinson. No. 1,359,621; Nov. 23; v. 280; p. 693.

Joint for sparking-plugs. D. Zimmermann and C. Plattier. No. 1,363,380; Dec. 21; v. 281; p. 612.

Joint for stuccoed buildings, Flexible. J. J. Earley. No. 1,355,756; Oct. 12; v. 279; p. 309.

Joint-lock. Y. and J. G. Arnandez, and C. L. Voorhies. No. 1,358,918; Nov. 16; v. 280; p. 442.

Joint of the flexible-disk type, Universal. E. J. Hardy. No. 1,350,500; Aug. 24; v. 277; p. 633.

Joint or coupling, Universal. F. B. Lockton and C. E. Christophel. No. 1,354,912; Oct. 5; v. 279; p. 93.

Joint puller, Universal-. J. A. Knowles. No. 1,337,233; Apr. 20; v. 273; p. 424.

Joint, Revolving reversible. G. W. Harris. No. 1,363,113; Dec. 21; v. 281; p. 519.

Joint strip, Preformed expansion-. F. C. Bowman. No. 1,339,094; May 4; v. 274; p. 83.

Joints, Housing for universal. P. Flamand. No. 1,361,573; Dec. 7; v. 281; p. 120.

Joints, Making rolled step-. B. G. Braine. No. 1,361,817; Dec. 14; v. 281; p. 214.

Joints, Means for packing. W. R. Beldam. No. 1,339,156; May 4; v. 274; p. 94.

Jointing material, Apparatus for manufacturing. R. Bridge. No. 1,330,054; Feb. 10; v. 271; p. 164.

Jointing materials, Manufacturing. A. E. Stafford. No. 1,347,918; July 27; v. 276; p. 690.

Journal-bearing. S. J. Sharp. No. 1,358,588; Nov. 9; v. 280; p. 331.

Journal-bearing, Adjustable. J. Murrin and E. J. Brewster. No. 1,342,059; June 1; v. 275; p. 87.

Journal-bearing, Piston-rod. W. M. Ellis and E. E. Sherman. No. 1,347,687; July 27; v. 276; p. 643.

Journal bearing, Roller-. T. Crowe. No. 1,344,968; June 29; v. 275; p. 885.

Journal-bearing support. E. B. Campbell. No. 1,356,037; Oct. 19; v. 279; p. 404.

Journal-bearings, Lubrication of. H. T. Newbigin. No. 1,336,378; Apr. 6; v. 273; p. 126.

Journal-box. G. O. Bergland. No. 1,345,063; June 29; v. 275; p. 921.

Journal-box. W. H. Foster. No. 1,342,164; June 1; v. 275; p. 109.

Journal-box. J. Gothner. No. 1,336,428; Apr. 13; v. 273; p. 196.

Journal-box. D. Jenkins and L. G. Wilson. No. 1,359,898; Nov. 23; v. 280; p. 678.

Journal-box. A. C. McCord. No. 1,337,238; Apr. 20; v. 273; p. 425.

Journal-box. W. F. Richards. No. 1,335,298; Mar. 30; v. 272; p. 808.

Journal-box. W. F. Richards. No. 1,335,299; Mar. 30; v. 272; p. 808.

Journal-box, Adjustable. S. A. Ayres. No. 1,340,102; May 11; v. 274; p. 348.

Journal-box bearing. P. Duffy. No. 1,335,668; Mar. 30; v. 272; p. 878.

Journal-box lid. J. S. Creedy. No. 1,344,175; June 22; v. 275; p. 683.

Journal-box lid. W. F. Kiesel, Jr. No. 1,363,324; Dec. 28; v. 281; p. 601.

Journal-box lids, Spring closing and holding device for car-. W. F. Richards. No. 1,335,297; Mar. 30; v. 272; p. 804.

Journal-box or flue puller. G. W. Upton. No. 1,363,934; Dec. 28; v. 281; p. 719.

Journal-box waste, Renovating used wool and cotton. T. M. Lawson. No. 1,362,946; Dec. 21; v. 281; p. 487.

Journal-boxes, Hub-liner for. W. J. Tollerton. No. 1,338,340; Apr. 27; v. 273; p. 704.

Journal-boxes, Lid closing and holding device for. D. C. Davis. No. 1,360,194; Nov. 23; v. 280; p. 737.

Journal-boxes, Lubricator for. W. E. Crist. No. 1,337,201; Apr. 20; v. 273; p. 418.

Journal-boxes. Lubricator for. W. E. Crist. No. 1,337,202; Apr. 20; v. 273; p. 418.

Journal-boxes, Manufacture of. A. O. Buckius, Jr. No. 1,358,821; Nov. 16; v. 280; p. 423.

Journal-boxes, Manufacture of. A. O. Buckius, Jr. No. 1,358,822; Nov. 16; v. 280; p. 423.

Journal-boxes of trains, Means for automatically lifting the lids of. J. J. Brish. No. 1,332,797; Mar. 2; v. 272; p. 119.

Journal-boxes, Oiling device for. F. R. and C. J. M. Weber. No. 1,344,465; June 22; v. 275; p. 741.

Journals and ledgers combined, Supporting means for loose-leaf. G. A. Lambert. No. 1,329,910; Feb. 3; v. 271; p. 106.

Juice-extractor. N. Gunturiz y Santos. No. 1,345,963; July 6; v. 276; p. 126.

Juice-extractor. W. I. Winchester and H. Laughlin, Jr. No. 1,355,101; Oct. 5; v. 279; p. 129.

Juices from materials, Apparatus for continuously separating. G. H. Day. No. 1,350,788; Aug. 24; v. 277; p. 689.

Jumper or crib. M. J. Ruddy. No. 1,343,523; June 15; v. 275; p. 491.

Junction-boxes, Pipe connection for. W. M. Waltman. No. 1,343,877; June 15; v. 275; p. 562.

Kafir-header. W. M. Garrett. No. 1,338,295; Apr. 27; v. 273; p. 695.

Karaya-gum composition and making, Dried soluble. H. V. Dunham. No. 1,334,357; Mar. 23; v. 272; p. 571.

Karaya thickener and making same. H. V. Dunham. No. 1,334,356; Mar. 23; v. 272; p. 571.

Keel-block. W. H. Nason. No. 1,356,109; Oct. 19; v. 279; p. 420.

Keels and keelsons, Reinforcement for wooden. R. Ogawa. No. 1,348,312; Aug. 3; v. 277; p. 36.

Keeper, Adjustable. G. W. Skilbeck. No. 1,357,084; Oct. 26; v. 279; p. 657.

Kerosene and like engine. J. Good. No. 1,359,166; Nov. 16; v. 280; p. 488.

Kerosene-burner. J. H. Kinealy. No. 1,327,048; Jan. 6; v. 270; p. 32.

Kerosene-gas-burning furnace. C. A. Hill. No. 1,352,063; Sept. 7; v. 278; p. 68.

Kettle. A. T. Timosci. No. 1,336,869; Apr. 13; v. 273; p. 281.

Kettle-cover drainer and holder. L. C. Moore. No. 1,349,084; Aug. 10; v. 277; p. 237.

Kettle-drainer. J. H. Wald. No. 1,346,355; July 13; v. 276; p. 264.

Kettle, Melting-. G. E. and J. Van Vorst. No. 1,355,931; Oct. 19; v. 279; p. 384.

Kettle or water heater. R. Mackay. No. 1,333,266; Mar. 9; v. 272; p. 258.

Kettle, Process-. J. H. Whitaker. No. 1,361,946; Dec. 14; v. 281; p. 240.

Kettle, Vapor croup-. C. P. Hague. No. 1,327,550; Jan. 6; v. 270; p. 125.

Key: *See*—
Combination-key.
Cotter-key.
Dictionary-key.
Listening-key.
Ringing and listening key.
Telephone-key.

Key. G. A. Sylvain. No. 1,350,749; Aug. 24; v. 277; p. 682.

Key. F. O. Warren. No. 1,333,887; Mar. 16; v. 272; p. 436.

Key. E. Westberg. No. 1,338,542; Apr. 27; v. 273; p. 741.

Key-action. W. C. Reed. No. 1,360,019; Nov. 23; v. 280; p. 702.

Key-anchor. W. S. Brummett and E. C. Reed. No. 1,347,773; July 27; v. 276; p. 661.

Key and container. H. R. Holbrook. No. 1,340,850; May 18; v. 274; p. 546.

Key-bearing for padlocks. C. W. Meadowcroft, Sr. No. 1,338,515; Apr. 27; v. 273; p. 737.

Key-changing combination-lock. W. T. Benham. No. 1,341,876; June 1; v. 275; p. 52.

Key-cutting machine. E. P. Baird. No. 1,345,117; June 29; v. 275; p. 932.

Key-cutting machine. J. Osterman. No. 1,335,294; Mar. 30; v. 272; p. 807.

Key-duplicating machine. S. Segal. No. 1,335,351; Mar. 30; v. 272; p. 818.

Key-guard. S. Caralun. No. 1,343,615; June 15; v. 275; p. 509.

Key-holder. C. L. Peirce, Jr. No. 1,352,622; Sept. 14; v. 278; p. 211.

Key-lever. C. W. Barnaby. No. 1,331,689; Feb. 24; v. 271; p. 559.

Key-lock. E. O. Bennett. No. 1,328,074; Jan. 13; v. 270; p. 285.

Key-lock box-strap fastener. E. Dietze. No. 1,348,485; Aug. 3; v. 277; p. 69.

Key mechanism, Voting-. W. J. Lausterer. No. 1,363,885; Dec. 28; v. 281; p. 709.

Key-ring. V. Davis. No. 1,333,655; Mar. 16; v. 272; p. 393.

Key-ring. V. Davis. No. 1,343,495; June 15; v. 275; p. 485.

Key-ring. F. Fischer. No. 1,341,228; May 25; v. 274; p. 690.

Key-ring. H. G. Johnson. No. 1,338,085; Apr. 27; v. 273; p. 656.

Key-ring attachment. H. Smith. No. 1,339,631; May 11; v. 274; p. 259.

Key-ring clip. W. Evans. No. 1,345,357; July 6; v. 276; p. 6.

Key-ring holder. J. A. Eichstedt. No. 1,327,534; Jan. 6; v. 270; p. 122.

Digitized by Google

Key-ring holder. W. N. Morrison. No. 1,349,468; Aug. 10; v. 277; p. 313.
Key-ring holder. B. R. Roblin. No. 1,341,930; June 1; v. 275; p. 62.
Key-ring holder. J. H. Wilson. No. 1,332,014; Feb. 24; v. 271; p. 621.
Key-switch. B. L. Moore. No. 1,341,719; June 1; v. 275; p. 21.
Keyboard. C Wolcott. No. 1,342,244; June 1; v. 275; p 124.
Keyboard-cleaner. J. W. Pennewill. No. 1,336,044; Apr. 6; v. 273; p. 64.
Keyboard for typewriting, Practice-. E. Stewart. No. 1,331,728; Feb. 24; v. 271; p. 566.
Keyboard, Practice-. W. A. Butler and A. V. Cooper. No. 1,328,818; Jan. 27; v. 270; p. 490.
Keyboard, Typewriter-. F. M. M. Banaji. No. 1,336,122; Apr. 6; v. 273; p. 79.
Keyhole-guard. J. E. Powers. No. 1,341,429; May 25; v. 274; p. 731.
Keyhole guard and lock. W. S. Montgomery. No. 1,359,190; Nov. 16; v. 280; p. 492.
Keyhole-illuminating device. G. E. Bates. No. 1,349,360; Aug. 10; v. 277; p. 292.
Keyhole-illuminating device. G. E. Bates. No. 1,358,926; Nov. 16; v. 280; p. 444.
Keyless lock. A. Bednar. No. 1,331,181; Feb. 17; v. 271; p. 444.
Keyless lock. J. de Leeuw. No. 1,346,080; July 6; v. 276; p. 149.
Keyless lock. E. J. Rebsamen. No. 1,344,517; June 22; v. 275; p. 752.
Keyless lock, Safety. J. Mace. No. 1,337,242; Apr. 20; v. 273; p. 426.
Kiln: *See*—

Continuous kiln.	Gravity-kiln.
Decorating-kiln.	Muffle-kiln.
Druy-kiln.	Rotary kiln.
Drying-kiln.	Tunnel-kiln.

Kiln. C. E. Carpenter. No. 1,349,185; Aug. 10; v. 277; p. 257.
Kiln. J. Elcock. No. 1,329,830; Feb. 3; v. 271; p. 91.
Kiln. F. Fidler and J. G. Maxwell. No. 1,341,550; May 25; v. 274; p. 753.
Kiln. K. Himrod. No. 1,339,705; May 11; v. 274; p. 273.
Kiln. R. C. Purdy. No. 1,332,471; Mar. 2; v. 272; p. 57.
Kiln. J. W. Silva. No. 1,340,633; May 18; v. 274; p. 506.
Kiln. C. D. Vezey and C. Mariner. No. 1,362,063; Dec. 14; v. 281; p. 263.
Kilns, Air-conditioning apparatus for drying-. H. N. Andrews and R. M. Holmes. No. 1,343,894; June 22; v. 275; p. 629.
Kilns, &c., Heating arrangement for. G. C. Heilman. (Reissue.) No. 14,972; Oct. 26; v. 279; p. 683.
Kinetoscope signal device. W. Wenderhold. No. 1,346,358; July 13; v. 276; p. 265.
Kit-case. F. Santoro. No. 1,361,101; Dec. 7; v. 281; p. 24.
Kit, First-aid. C. A. Brewer. No. 1,337,483; Apr. 20; v. 273; p. 462.
Kitchen, Army field-. J. W. Converse. No. 1,331,241; Feb. 17; v. 271; p. 455.
Kitchen, Field-. P. Archacki. No. 1,335,473; Mar. 30; v. 272; p. 840.
Kitchen, Field-. V. De Carlo. No. 1,335,941; Apr. 6; v. 273; p. 45.
Kitchen-fixture. Z. V. Matthews. No. 1,327,489; Jan. 6; v. 270; p. 113.
Kitchen implement. W. B. Jones. No. 1,332,260; Mar. 2; v. 272; p. 16.
Kitchen-knife. R. L. Moffett. No. 1,359,722; Nov. 23; v. 280; p. 643.
Kitchen, Rolling military. F. G. Baldwin. No. 1,328,071; Jan. 13; v. 270; p. 284.
Kitchen-table. M. R. Baseman. No. 1,361,299; Dec. 7; v. 281; p. 63.
Kitchen utensil. L. J. Merfeld. No. 1,347,112; July 20; v. 276; p. 473.
Kitchen utensil. K. Wolak. No. 1,363,632; Dec. 28; v. 281; p. 660.
Kitchen utensils, Coating composition for. F. W. Bloch. No. 1,328,556; Jan. 20; v. 270; p. 413.
Kite. G. D. Wanner. No. 1,347,565; July 27; v. 276; p. 619.
Kite and making same. H. B. Holtvoigt. No. 1,337,408; Apr. 20; v. 273; p. 456.
Kite-frame. S. P. Fergusson. No. 1,328,143; Jan. 13; v. 270; p. 298.
Knee, Toolmaker's adjustable. E. J. Bryant. No. 1,355,809; Oct. 19; v. 279; p. 360.
Knife: *See*—

Bread-knife.	Paring-knife.
Corn-knife.	Peeling-knife.
Cutting-knife.	Pitting-knife.
Kitchen-knife.	Pocket-knife.
Mixing-knife.	Pug-mill knife.
Paper-knife.	Surgeon's plaster-knife.

Knife. J. H. Henson. No. 1,347,036; July 20; v. 276; p. 458.
Knife. J. F. Lamb. No. 1,355,676; Oct. 12; v. 279; p. 294.
Knife. E. Lewis. No 1,329,912; Feb. 3; v. 271; p. 106.
Knife. M. Neft. No. 1,358,097; Nov. 9; v. 280; p. 232.
Knife. H. Oertli. No. 1,346,669; July 13; v. 276; p. 326.
Knife. E. Sárközy. No. 1,345,637; July 6; v. 276; p. 60.
Knife. W. M. Stodder. No. 1,359,448; Nov. 16; v. 280; p. 544.
Knife and fork, Combination. E. G. Parker and R. Stroppel. No. 1,341,158; May 25; v. 274; p. 676.
Knife-blade switch. A. H. Trumbull and T. A. Both. No. 1,354,525; Oct. 5; v. 279; p. 16.
Knife-blades, Machine for hardening. H. Bock. No. 1,350,697; Aug. 24; v. 277; p. 671.
Knife-cleaner. A. Erickson. No. 1,349,123; Aug. 10; v. 277; p. 244.
Knife-handle. P. Mertens and H. Backert. No. 1,335,847; Apr. 6; v. 273; p. 27.
Knife-holder. P. Ganghora. No. 1,330,461; Feb. 10; v. 271; p. 240.
Knife, Needle-. J. Hederich. No. 1,362,993; Dec. 21; v. 281; p. 496.
Knife-setting appliance. N. A. Lockwood. No. 1,339,210; May 4; v. 274; p. 104.
Knife-switch, Two-blade. W. Jaeger. No. 1,358,554; Nov. 9; v. 280; p. 324.
Knives, Attachment for paring-. C. M. Brehm. No. 1,333,960; Mar. 16; v. 272; p. 450.
Knit article and making same. F. W. Tully. No. 1,358,799; Nov. 16; v. 280; p. 418.
Knitted fabric and knitting same. M. C. Miller. No. 1,332,763; Mar. 16; v. 272; p. 413.
Knitted garment. D. C. O'Shea. No. 1,356,168; Oct. 19; v. 279; p. 431.
Knitted webs, Apparatus for treating. F. S. Wilcox. No. 1,340,809; May 18; v. 274; p. 538.
Knitted webs, Device for transferring and doubling. L. N. D. Williams. No. 1,348,195; Aug. 3; v. 277; p. 12.
Knitting device. F. G. Bell. No. 1,351,016; Aug. 31; v. 277; p. 795.
Knitting lace-work, Machine for. J. Eppler. No. 1,327,228; Jan. 6; v. 270; p. 66.
Knitting-machine. E. U. Ames. No. 1,340,695; May 18; v. 274; p. 518.
Knitting-machine. E. U. Ames. No. 1,359,307; Nov. 16; v. 280; p. 515.
Knitting-machine. W. W. Burson. No. 1,333,156; Mar. 9; v. 272; p. 288.
Knitting-machine. W. W. Burson. No. 1,333,157; Mar. 9; v. 272; p. 288.
Knitting-machine. H. Evans. No. 1,335,281; Mar. 30; v. 272; p. 804.
Knitting-machine. E. Lippitt. No. 1,339,708; May 11; v. 274; p. 274.
Knitting-machine. A. M. Pigeon. No. 1,330,818. Feb. 17; v. 271; p. 375.
Knitting-machine. W. H. Swarts and O. B. Richards. No. 1,327,122; Jan. 6; v. 270; p. 46.
Knitting machine, Circular-. H. E. Houseman. No. 1,359,249; Nov. 16; v. 280; p. 504.
Knitting machine, Circular-. M. C. Miller. No. 1,328,580; Jan. 20; v. 270; p. 417.
Knitting machine, Circular-. W. E. Smith. No. 1,347,186; July 20; v. 276; p. 487.
Knitting machine, Circular-. G. Stibbe. No. 1,361,291; Dec. 7; v. 281; p. 62.
Knitting machine, Circular-. S. and H. M. Timson. No. 1,358,264; Nov. 9; v. 280; p. 266.
Knitting machine, Circular glove-. G. Stibbe. No. 1,337,099; Apr. 13; v. 273; p. 825.
Knitting-machine needle, Buttless. W. Fels. No. 1,354,096; Sept. 28; v. 278; p. 608.
Knitting-machine, Spring-needle. E. A. Hirner. No. 1,349,132; Aug. 10; v. 277; p. 246.
Knitting-machines, Anti-thread-ballooning device for. A. M. Pigeon. No. 1,340,681; May 18; v. 274; p. 515.
Knitting-machines, Drop-stitch mechanism for. F. W. Robinson. No. 1,339,715; May 11; v. 274; p. 275.
Knitting-machines, Facilitating the mechanical transfer of stitches from needles of. L. N. D. Williams. No. 1,344,468; June 22; v. 275; p. 742.
Knitting machines, Feeding and pattern mechanism for warp-. E. H. Walter. No. 1,355,196; Oct. 12; v. 279; p. 201.
Knitting machines, Feeding means for circular-. M. C. Miller. No. 1,352,079; Sept. 7; v. 278; p. 71.
Knitting-machines, Gap-closing attachment for. F. W. Robinson. No. 1,357,252; Nov. 2; v. 280; p. 10.
Knitting machines, Reinforcing mechanism for circular-. G. S. Weinerth. No. 1,351,883; Sept. 7; v. 278; p. 35.
Knitting-machines, Sinker mechanism for. E. L. Cummings. No. 1,334,597; Mar. 23; v. 272; p. 616.
Knitting-machines, Starting selvage and tucking device for. R. W. Scott. No. 1,348,144; July 27; v. 276; p. 734.
Knitting-machines, Stop mechanism for. A. Wachsman. No. 1,358,483; Nov. 9; v. 280; p. 311.
Knitting machines, Striping attachment for circular-. F. W. Robinson. No. 1,357,253; Nov. 2; v. 280; p. 10.
Knitting-machines, Striping mechanism for. F. W. Robinson. No. 1,357,254; Nov. 2; v. 280; p. 11.
Knitting-machines, Timing-clutch for dial and cylinder. R. W. Scott. No. 1,356,092; Oct. 19; v. 279; p. 416.
Knitting-machines, Web-holder mechanism for. R. W. Scott. No. 1,345,408; July 6; v. 276; p. 16.

Knitting-machines, Yarn-changer mechanism for. F. E. Jones. No. 1,341,324; May 25; v. 274; p. 709.
Knitting-machines, Yarn-feed mechanism for. E. Scanlin and C. Reath. No. 1,349,298; Aug. 10; v. 277; p. 280.
Knitting-machines, Yarn-feeding means for. F. C. Nicholson. No. 1,346,049; July 6; v. 276; p. 143.
Knitting-machines, Yarn-pusher for. E. U. Ames. No. 1,335,633; Mar. 30; v. 272; p. 871.
Knitting-machines, Yarn-severing device for. R. Fisher. No. 1,356,060; Oct. 19; v. 279; p. 409.
Knob and manufacturing it, Molded. N. B. Parsons. No. 1,355,254; Oct. 12; v. 279; p. 213.
Knob-lock. L. Huffman. No. 1,358,211; Nov. 9; v. 280; p. 255.
Knockdown box. J. L. Buehl and F. A. Fritze, Jr. No. 1,361,823; Dec. 14; v. 281; p. 215.
Knockdown box. H. Leiman. No. 1,363,984; Dec. 28; v. 281; p. 728.
Knockdown box. A. G. Petit. No. 1,340,248; May 18; v. 274; p. 483.
Knockdown can. H. F. Voshardt. No. 1,331,548; Feb. 24; v. 271; p. 531.
Knockdown table, Rotary-center. A. Ferrell. No. 1,354,735; Oct. 5; v. 279; p. 57.
Knotter. S. F. Brown. No 1,349,659; Aug. 17; v. 277; p. 423.
Knotter. H. D. Colman. No. 1,348,929; Aug. 10; v. 277; p. 207.
Knotter. C. Lea. No. 1,354,668; Oct. 5; v. 279; p. 45.
Kodak-albums, Memorandum attachment for. U. V. Garred. No. 1,335,434; Mar. 30; v. 272; p. 833.
L-punchings, Double die for making. W. E. Laird. No. 1,334,102; Mar. 16; v. 272; p. 477.
Label. S. F. Stein. No. 1,339,007; May 4; v. 274; p. 66.
Label. R. A. Van Clief. No. 1,349,396; Aug. 10; v. 277; p. 299.
Label-affixing apparatus. W. Kwasis. No. 1,351,107; Aug. 31; v. 277; p. 812.
Label-applying machine. E. H. Taylor. No. 1,362,200; Dec. 14; v. 281; p. 290.
Label, Bale-tie. T. H. Stewart. No. 1,328,019; Jan. 13; v. 270; p. 274.
Label-detaching device. C. A. Bobst. No. 1,328,814; Jan. 27; v. 270; p. 489.
Label-holder. G. H. Taylor. No. 1,327,298; Jan. 6; v. 270; p. 78
Label-making machine. M. O. Clauss. No. 1,328,912; Jan. 27; v. 270; p. 509.
Label-pasting machine. S. S. Yenovkian. No. 1,337,684; Apr. 20; v. 273; p. 510.
Label-wiping mechanism. J. E. Johnson and C. H. Oslund. No. 1,339,764; May 11; v. 274; p. 284.
Labels and applying same to cans, Treating. C. W. Blackstone. No. 1,329,696; Feb. 3; v. 271; p. 55.
Labeling and like machine. J. Hadcock and W. H. Naylor. No. 1,332,625; Mar. 2; v. 272; p. 86.
Labeling containers. M. Galibert. No. 1,344,080; June 22; v. 275; p. 665.
Labeling-machine. A. S. Colver and H. E. Helm. No. 1,353,519; Sept. 21; v. 278; p. 448.
Labeling-machine. S. Cooper. No. 1,351,024; Aug. 31; v. 277; p. 796.
Labeling-machine. M. Galibert. No. 1,344,081; June 22; v. 275; p. 666.
Labeling-machine. B. Hagele. No. 1,330,261; Feb. 10; v. 271; p. 203.
Labeling-machine. L. A. Hawthorne. No. 1,345,006; June 29; v. 275; p. 910.
Labeling-machine. G. S. Morris. No. 1,344,426; June 22; v. 275; p. 738.
Labeling-machine. C. M. C. Schou. No. 1,338,793; May 4; v. 274; p. 27.
Labeling-machine. J. L. Whitehurst. No. 1,329,260; Jan. 27; v. 270; p. 574.
Labeling-machine. J. L. Whitehurst. No. 1,338,603; Apr. 27; v. 273; p. 752.
Labeling machine, Can-. A. P. Ekvall and H. Stake. No. 1,327,465; Jan. 6; v. 270; p. 108.
Laboratory apparatus. W. R. Fleming. No. 1,354,736; Oct. 5; v. 279; p. 57.
Lace-machine-carriage-threading mechanism. W. R. Scott. No. 1,346,790; July 13; v. 276; p. 351.
Lace-making machine. P. Greenwood. No. 1,351,329; Aug. 31; v. 277; p. 857.
Lace-tip. F. J. Benz. No. 1,353,140; Sept. 21; v. 278; p. 374.
Lace-tips. Apparatus for the manufacture of. E. F. Tomkins. No. 1,348,336; Aug. 3; v. 277; p. 41.
Lace-weaving machines, Stop mechanism for. D. Blydenburgh. No. 1,335,218; Mar. 30; v. 272; p. 793.
Lace with gauze-like ground made on single-thread machines. E. Türck. No. 1,337,294; Apr. 20; v. 273; p. 436.
Laces, Tool for applying tips to. T. P. Mulder. No. 1,339,217; May 4; v. 274; p. 105.
Lacing, Belt-operated. C. Munter. No. 1,344,709; June 29; v. 275; p. 854.
Lacing device. P. Yantorny. No. 1,330,615; Feb. 10; v. 271; p. 268.
Lacing-hook. N. J. Beckner. No. 1,359,018; Nov. 16; v. 280; p. 461.
Lacing-machine. H. E. Enslin. No. 1,329,298; Jan. 27; v. 270; p. 580.
Lacing-stud-setting machine. E. E. Wakefield. No. 1,328,701; Jan. 20; v. 270; p. 489.
Lacing-tip. E. Fuller. No. 1,349,827; Aug. 17; v. 277; p. 455.
Lacing-tip-forming machine. G. G. Perkins. No. 1,347,655; July 27; v. 276; p. 637.
Ladder. H. C. Bissell and J. J. Chase. No. 1,342,153; June 1; v. 275; p. 106.
Ladder. H. A. Cooper. No. 1,346,299; July 13; v. 276; p. 254.
Ladder. C. W. Krathwohl. No. 1,357,171; Oct. 26; v. 279; p. 674.
Ladder. C. W. Krathwohl and J. F. Coveny. No. 1,332,262; Mar. 2; v. 272; p. 16.
Ladder. L. Powell. No. 1,340,627; May 18; v. 274; p. 505.
Ladder. C. A. Rich. No. 1,353,270; Sept. 21; v. 278; p. 399.
Ladder. F. M. de Saussure, Jr. No. 1,341,707; June 1; v. 275; p. 18.
Ladder. M. Schulze. No. 1,330,951; Feb. 17; v. 271; p. 402.
Ladder. A. A. Sorg. No. 1,356,749; Oct. 26; v. 279; p. 591.
Ladder. C. M. Waggoner. No. 1,346,518; July 13; v. 276; p. 297.
Ladder. C. E. Wyrick. No. 1,360,854; Nov. 30; v. 280; p. 934.
Ladder, Adjustable. E. C. Obermeyer. No. 1,352,830; Sept. 14; v. 278; p. 253.
Ladder and bench, Convertible. S. Kasper. No. 1,337,361; Apr. 20; v. 273; p. 449.
Ladder and chair, Combined. T. Buh. No. 1,359,486; Nov. 23; v. 280; p. 596.
Ladder and ironing-table, Combination. S. Gellis. No. 1,343,500; June 15; v. 275; p. 486.
Ladder and safety-lock. A. Di Salvatore. No. 1,352,055; Sept. 7; v. 278; p. 66.
Ladder attachment. F. A. Lehmann. No. 1,346,831; July 20; v. 276; p. 417.
Ladder attachment. F. W. Schnabel. No. 1,351,795; Sept. 7; v. 278; p. 15.
Ladder-bracket. C. M. Dunlap. No. 1,332,385; Mar. 2; v. 272; p. 41.
Ladder-bracket, Bucket-supporting. F. D. Bochard. No. 1,358,277; Nov. 9; v. 280; p. 268.
Ladder construction. J. L. Saget. No. 1,350,242; Aug. 17; v. 277; p. 535.
Ladder, Extensible. A. Zerlini. No. 1,351,146; Aug. 31; v. 277; p. 819.
Ladder, Fire-. K. C. Ferris. No. 1,359,680; Nov. 23; v. 280; p. 635.
Ladder, Flexible. W. F. Early. No. 1,328,087; Jan. 13; v. 270; p. 278.
Ladder-foot. J. E. Busko. No. 1,354,166; Sept. 28; v. 278; p. 622.
Ladder safety device. J. Stephan. No. 1,352,323; Sept. 7; v. 278; p. 117.
Ladder safety device. G. Voll. No. 1,352,566; Sept. 14; v. 278; p. 200.
Ladder, Sectional tube-. J. A. Thollander. No. 1,340,688; May 18; v. 274; p. 516.
Ladder-shelf. S. Plasclascovitie. No. 1,352,914; Sept. 14; v. 278; p. 270.
Ladder, Ship's. P. Full. No. 1,349,125; Aug. 10; v. 277; p. 245.
Ladder-step support. D. B. Hampton. No. 1,344,886; June 29; v. 275; p. 888.
Ladder holder attachment. H. Alpen. No. 1,328,705; Jan. 20; v. 270; p. 440.
Ladder-legs, Extension for. F. H. Barron. No. 1,329,740; Feb. 3; v. 271; p. 73.
Ladder, Step and wall. L. Seger. No. 1,338,100; Apr. 27; v. 273; p. 658.
Ladder system, Standardized accommodation-. H. S. Paul. No. 1,329,924; Feb. 3; v. 271; p. 108.
Ladder, Wheeled. J. F. Parkinson. No. 1,335,182; Mar. 30; v. 272; p. 787.
Ladders, Antislipping attachment for. C. J. Brown. No. 1,331,954; Feb. 24; v. 271; p. 609.
Ladle and babbiting jig, Combination. W. J. Hempy. No. 1,351,247; Aug. 31; v. 277; p. 830.
Ladle, Bottle-pour. F. Cordes. No. 1,338,001; Apr. 27; v. 273; p. 640.
Ladle-turning mechanism. J. S. Townsend. No. 1,357,599; Nov. 2; v. 280; p. 75.
Ladles, Gas-burner for drying. F. W. Alles, A. Fletcher, and G. E. Hitchens. No. 1,342,932; June 8; v. 275; p. 812.
Laminated fabric. W. Kline. No. 1,341,987; June 1; v. 275; p. 73.
Lamp. J. W. Brown. No. 1,359,322; Nov. 16; v. 280; p. 519.
Lamp, W. C. Coleman. No. 1,344,200; June 22; v. 275; p. 689.
Lamp. H. A. Douglas. No. 1,358,065; Nov. 9; v. 280; p. 227.
Lamp. R. Geer. No. 1,342,330; June 1; v. 275; p. 140.
Lamp. C. E. Godley. No. 1,340,163; May 18; v. 274; p. 417.
Lamp. E. A. Hawthorne. No. 1,342,215; June 1; v. 275; p. 119.
Lamp. C. Lafitte. No. 1,333,428; Mar. 9; v. 272; p. 283.
Lamp. R. A. Oldfield. No. 1,338,954; May 4; v. 274; p. 56

Alphabetical list of inventions—Continued.

Lamp. A. Salzer. No. 1,338,194; Apr. 27; v. 273; p. 676.
Lamp. E. Viollet. No. 1,348,523; Aug. 3; v. 277; p. 76.
Lamp, Acetylene-. H. J. Browne. No. 1,360,878; Nov. 30; v. 280; p. 939.
Lamp, Acetylene-. H. Gall. No. 1,332,250; Mar. 2; v. 272; p. 14.
Lamp, Acetylene-gas. M. Leonhardy. No. 1,350,819; Aug. 24; v. 277; p. 695.
Lamp-adjuster. K. Watanabe. No. 1,340,195; May 18; v. 274; p. 423.
Lamp and fan, Electric. H. Diederich. No. 1,345,752; July 6; v. 276; p. 83.
Lamp and heater, Combined. P. C. Browne. No. 1,335,650; Mar. 30; v. 272; p. 874.
Lamp and signal, Combined. F. Raucher. No. 1,351,689; Aug. 31; v. 277; p. 928.
Lamp, Arc-. W. A. Darrah. No. 1,344,757; June 19; v. 275; p. 864.
Lamp, Arc-. G. M. Little. No. 1,333,665; Mar. 16; v. 272; p. 895.
Lamp attachment, Phonograph-. R. L. Cuzen. No. 1,343,767; June 15; v. 275; p. 539.
Lamp, Automobile-. W. A. Irwin and L. F. Jackson. No. 1,328,153; Jan. 13; v. 270; p. 300.
Lamp, Automobile safeguard-. K. Dombkowski. No. 1,326,918; Jan. 6; v. 270; p. 7.
Lamp, Automobile signal-. S. J. Sibley. No. 1,361,106; Dec. 7; v. 281; p. 25.
Lamp-base. W. I. Kemble. No. 1,339,351; May 4; v. 274; p. 129.
Lamp-bases, Apparatus for the manufacturing and adjustment of contact-plates in Swan. H. C. Ghijsen. No. 1,331,755; Feb. 24; v. 271; p. 572.
Lamp bases, Manufacturing and adjustment of contact-plates in Swan-. H. C. Ghijsen. No. 1,340,041; May 11; v. 274; p. 336.
Lamp, Battery hand-. C. F. Burgess. No. 1,336,067; Apr. 6; v. 273; p. 68.
Lamp, Battery hand-. G. D. Gallagher. No. 1,358,839; Nov. 16; v. 280; p. 426.
Lamp, Battery hand-. G. D. Gallagher. No. 1,361,846; Dec. 14; v. 281; p. 220.
Lamp, Battery hand-. T. J. Madigan. No. 1,340,550; May 18; v. 274; p. 490.
Lamp, Battery hand-. L. Maisel. No. 1,354,328; Sept. 28; v. 278; p. 654.
Lamp, Battery hand-. F. G. Spiers. No. 1,361,920; Dec. 14; v. 281; p. 935.
Lamp, Bed-. H. P. Whitaker. No. 1,337,867; Apr. 20; v. 273; p. 545.
Lamp body and shade-holder, Electric-cluster-. H. D. Cahill. No. 1,353,563; Sept. 21; v. 278; p. 457.
Lamp body, reflector, and shade-holder, Electric-. H. D. Cahill. No. 1,353,562; Sept. 21; v. 278; p. 456.
Lamp-bracket. R. F. Ferguson. No. 1,343,499; June 15; v. 275; p. 486.
Lamp-bracket. C. A. Johnson. No. 1,351,171; Aug. 31; v. 277; p. 824.
Lamp-bracket. F. M. Jones. No. 1,327,479; Jan. 6; v. 270; p. 111.
Lamp-bracket. G. J. Seiss. No. 1,335,396; Mar. 30; v. 272; p. 826.
Lamp-bulb extension-base. P. P. Hein. No. 1,339,833; May 4; v. 274; p. 126.
Lamp bulbs, Method for forming conducting-seals for incandescent-. T. Yanai. No. 1,350,907; Aug. 24; v. 277; p. 710.
Lamp-burner. H. N. Bernier. No. 1,329,222; Jan. 27; v. 270; p. 567.
Lamp-burner. M. Oros. No. 1,363,429; Dec. 28; v. 281; p. 620.
Lamp burner, Carbid-. L. E. Polhemus. No. 1,338,088; Apr. 27; v. 273; p. 647.
Lamp-burners, Air-distributer for. J. K. Davis. No. 1,337,825; Apr. 20; v. 273; p. 536.
Lamp-burners, Extinguishing attachment for. A. Medwats. No. 1,347,749; July 27; v. 276; p. 657.
Lamp, Candle-. E. J. Knapp. No. 1,350,461; Aug. 24; v. 277; p. 626.
Lamp, Carbid-. G. C. Hendricks. No. 1,331,430; Feb. 17; v. 271; p. 490.
Lamp, Carbid-. T. Thompson. No. 1,334,570; Mar. 23; v. 272; p. 611.
Lamp casing, Arc-. I. Eachus. No. 1,344,938; June 29; v. 275; p. 898.
Lamp-chimney guard. S. Acheson and D. N. Plant. No. 1,358,492; Nov. 9; v. 280; p. 312.
Lamp-chimney holder. L. C. Gay. No. 1,331,010; Feb. 17; v. 271; p. 413.
Lamp-chimney holder and adjuster. O. E. Cox. No. 1,362,528; Dec. 14; v. 281; p. 354.
Lamp-chimneys, Heating device for. L. B. Tebeau. No. 1,342,359; June 1; v. 275; p. 145.
Lamp closures, Fastening device for automobile-. E. A. Kuen. No. 1,334,762; Mar. 23; v. 272; p. 647.
Lamp, Combined flash and trouble. H. G. Bauman and G. M. Westerberg. No. 1,330,974; Feb. 17; v. 271; p. 406.
Lamp construction. C. L. De Martin and H. C. Foster. No. 1,342,426; June 8; v. 275; p. 212.
Lamp construction. L. Schepmoes. No. 1,339,985; May 11; v. 274; p. 326.
Lamp, Dark-room. J. P. Hansen. No. 1,335,684; Mar. 30; v. 272; p. 880
Lamp, Dental. N. M. Stone. No. 1,352,995; Sept. 14; v. 278; p. 286.
Lamp-dimmer. C. W. Eisele. No. 1,335,727; Apr. 6; v. 273; p. 5.
Lamp-dimmer. G. W. Ray and W. V. Harrington. No. 1,335,918; Apr. 6; v. 273; p. 40.
Lamp-dimmer shield. P. Jenkins. No. 1,346,497; July 13; v. 276; p. 293.
Lamp, Dirigible. W. H. Spencer. No. 1,341,681; June 1; v. 275; p. 14.
Lamp, Dirigible. R. Wilcox. No. 1,329,647; Feb. 3; v. 271; p. 56.
Lamp door, Vehicle-. L. L. Pfeifer. No. 1,354,512; Oct. 5; v. 279; p. 13.
Lamp, Electric. E. G. Camelinat. No. 1,331,319; Feb. 17; v. 271; p. 468.
Lamp, Electric. J. Cathrill. No. 1,343,309; June 15; v. 275; p. 448.
Lamp, Electric. G. E. Ricker. No. 1,344,429; June 22; v. 275; p. 734.
Lamp, Electric. G. Wheat. No. 1,361,557; Dec. 7; v. 281; p. 117.
Lamp, Electric-arc. H. T. Harrison. No. 1,355,334; Oct. 12; v. 279; p. 228.
Lamp, Electric-arc. F. W. Miller. No. 1,329,132; Jan. 27; v. 270; p. 550.
Lamp, Electric incandescent. F. Harrison. No. 1,362,303; Dec. 14; v. 281; p. 311.
Lamp, Electric incandescent. F. W. Peterson. No. 1,341,581; May 25; v. 274; p. 759.
Lamp, Electric pocket-. C. Boltshauser. No. 1,327,017; Jan. 6; v. 270; p. 26.
Lamp, Electric pocket-. C. Boltshauser. No. 1,346,104; July 13; v. 276; p. 215.
Lamp, Emergency-. W. J. Koenig. No. 1,344,206; June 22; v. 275; p. 690.
Lamp filaments, Stem and mount for incandescent-. M. P. Wetmore. No. 1,359,134; Nov. 16; v. 280; p. 482.
Lamp-fixture. J. S. Pennefather. No. 1,351,681; Aug. 31; v. 277; p. 926.
Lamp-fixture. F. Yokel. No. 1,349,483; Aug. 10; v. 277; p. 316.
Lamp-fixture, Electric. R. H. Sheldrick. No. 1,363,019; Dec. 21; v. 281; p. 501.
Lamp for motor-vehicles, Signaling-. T. Stobs and W. Lightell. No. 1,350,682; Aug. 24; v. 277; p. 668.
Lamp for projecting apparatus. J. F. Skerrett. No. 1,354,583; Oct. 5; v. 279; p. 27.
Lamp for projecting apparatus, Electric. J. E. Randall and L. T. Reser. No. 1,357,724; Nov. 2; v. 280; p. 99.
Lamp, Gas-. C. Danaher. No. 1,354,730; Oct. 5; v. 279; p. 56.
Lamp, Gas-mantle. T. H. Stafford. No. 1,346,424; May 18; v. 274; p. 466.
Lamp-guard. E. D. Tillson. No. 1,349,392; Aug. 10; v. 277; p. 298.
Lamp-guard and shade-clamp. H. C. Papemaier. No. 1,333,569; Mar. 9; v. 272; p. 316.
Lamp guard, Incandescent-. W. A. Heinrich. No. 1,351,474; Aug. 31; v. 277; p. 886.
Lamp-guard lock. C. L. Matthews. No. 1,362,335; Dec. 14; v. 281; p. 317.
Lamp, Hand-. J. C. Ford. No. 1,358,368; Nov. 9; v. 280; p. 287.
Lamp, Head-. C. N. Weems. No. 1,349,642; Aug. 17; v. 277; p. 420.
Lamp-holder. W. J Frisble. No. 1,349,566; Aug. 17; v. 277; p. 405.
Lamp-holder. G. Potstada. No. 1,360,988; Nov. 30; v. 280; p. 960.
Lamp holder, Electric-. V. Martines. No. 1,343,573; June 15; v. 275; p. 501.
Lamp holder, Incandescent-electric-. P. M. R. Salles. No. 1,336,587; Apr. 13; v. 273; p. 226.
Lamp-holder of the Edison type. A. Piazzi. No. 1,362,734; Dec. 21; v. 281; p. 446.
Lamp house, Projection-. W. Wenderhold. No. 1,346,359; July 13; v. 276; p. 265.
Lamp, Household-. H. Galopin. No. 1,339,699; May 11; v. 274; p. 272.
Lamp, Hydrocarbon-. F. A. Raffel. No. 1,337,620; Apr. 20; v. 273; p. 497.
Lamp, Incandescent. J. Judge. No. 1,340,054; May 11; v. 274; p. 339.
Lamp, Incandescent. W. White. No. 1,331,301; Feb. 17; v. 271; p. 465.
Lamp, Incandescent electric. N. Wise. No. 1,352,860; Sept. 14; v. 278; p. 259.
Lamp, Incandescent electric. S. Yuyama. No. 1,341,966; June 1; v. 275; p. 69.
Lamp, Inspection-. W. L. Dysart and J. F. O'Hanlon. No. 1,363,098; Dec. 21; v. 281; p. 517.
Lamp kit, Miners'-. J. A. Schooling. No. 1,355,007; Oct. 5; v. 279; p. 111.
Lamp-locking construction. E. H. Freeman. No. 1,326,924; Jan. 6; v. 270 p. 8.
Lamp, Mercury-vapor. M. J. Cornu. No. 1,343,037; June 8; v. 275; p. 333.
Lamp, Miner's. S. Caserto. No. 1,359,330; Nov. 16; v. 280; p. 521.
Lamp, Miner's. L. Chomier. No. 1,331,320; Feb. 17; v. 271; p. 469.

Digitized by Google

Lamp, Miner's. A. Coyne and L. Hash. No. 1,344,867; June 29; v. 275; p. 884.
Lamp, Miner's. A. D. Zimmerman. No. 1,328,553; Jan. 20; v. 270; p. 412.
Lamp, Miner's electric. T. Stretton and J. W. Jones. No. 1,352,636; Sept. 14; v. 278; p. 214.
Lamp, Multiple. J. Gelb. No. 1,347,846; July 27; v. 276; p. 675.
Lamp-operation mechanism. K. A. Kendrick. No. 1,361,265; Dec. 7; v. 281; p. 56.
Lamp or lantern. M. Antoine. No. 1,356,898; Oct. 26; v. 279; p. 621.
Lamp, Piano-. C. Eberhart, Jr. No. 1,353,033; Sept. 14; v. 278; p. 293.
Lamp, Piano-. A. Fraser. No. 1,361,241; Dec. 7; v. 281; p. 52.
Lamp, Picture-projection. W. G. Preddey. No. 1,340,490; May 18; v. 274; p. 480.
Lamp, Portable. T. H. Froehlick. No. 1,333,892; Mar. 9; v. 272; p. 265.
Lamp, Portable. F. M. Rosenfeld. No. 1,355,849; Oct. 19; v. 279; p. 368.
Lamp, Portable. L. W. Young. No. 1,352,862; Sept. 14; v. 278; p. 860.
Lamp, Portable electric. H. K. Lorentzen. No. 1,329,051; Jan. 27; v. 270; p. 535.
Lamp, Portable hand-. H. M. Koretsky. No. 1,353,348; Sept. 21; v. 278; p. 414.
Lamp-post. P. di Benedetto. No. 1,359,039; Nov. 16; v. 280; p. 464.
Lamp-protecting device, Incandescent-. H. F. Way. No. 1,345,466; July 6; v. 276; p. 27.
Lamp, Quartz mercury-vapor. H. George. No. 1,361,710; Dec. 7; v. 281; p. 147.
Lamp, Railway signal-. C. H. Cobb. No. 1,350,357; Aug. 24; v. 277; p. 604.
Lamp, Railway signal-. A. H. Handlan, Jr. No. 1,338,769; May 4; v. 274; p. 23.
Lamp, Railway switch-. N. I. Hoey. No. 1,335,503; Mar. 30; v. 272; p. 846.
Lamp, Reflecting-. H. A. Douglas. No. 1,339,695; May 11; v. 274; p. 271.
Lamp, Reflecting-. H. A. Douglas. No. 1,357,036; Oct. 26; v. 279; p. 648.
Lamp-resistance frame. H. D. Rohman. No. 1,349,583; Aug. 17; v. 277; p. 409.
Lamp, Road-vehicle. F. R. Duckworth. No. 1,330,176; Feb. 10; v. 271; p. 187.
Lamp, Sanctuary-. E. J. Knapp. No. 1,336,635; Apr. 13; v. 273; p. 235.
Lamp, Sanctuary-. B. Muller-Thym. No. 1,335,011; Mar. 30; v. 272; p. 754.
Lamp, Sanctuary. F. Quin. No. 1,339,788; May 11; v. 274; p. 289.
Lamp, Sanctuary oil-. W. Rosenberger. No. 1,345,960; July 6; v. 276; p. 125.
Lamp-shade. I. B. Beales. No. 1,335,640; Mar. 30; v. 272; p. 872.
Lamp-shade. L. W. Langehennig. No. 1,358,563; Nov. 9; v. 280; p. 326.
Lamp shade and globe, Reflecting. E. M. Bennett. No. 1,354,158; Sept. 28; v. 278; p. 621.
Lamp-shade and light-diffuser. E. H. Strauss. No. 1,329,147; Jan. 27; v. 270; p. 553.
Lamp-shade holder. C. H. Bissell. No. 1,345,741; July 6; v. 276; p. 81.
Lamp-shade holder. M. Kossmann. No. 1,328,331; Jan. 20; v. 270; p. 370.
Lamp shades and globes, Elastic holder for. K. B. Schäfer. No. 1,358,023; Nov. 9; v. 280; p. 218.
Lamp shield, Automobile-. J. C. Bartley and J. G. Ophardt. No. 1,354,673; Oct. 5; v. 279; p. 85.
Lamp, Signal-. W. N. Best. No. 1,343,899; June 22; v. 275; p. 630.
Lamp, Signal-. A. E. Clift. No. 1,332,607; Mar. 2; v. 272; p. 83.
Lamp, Signal-. G. Jacobs and F. C. Ruppel. No. 1,337,230; Apr. 20; v. 273; p. 424.
Lamp, Signal-. A. Meyer. No. 1,351,113; Aug. 31; v. 277; p. 813.
Lamp-socket. C. J. Klein. No. 1,357,404; Nov. 2; v. 280; p. 39.
Lamp-socket. H. J. Morey. No. 1,334,709; Mar. 23; v. 272; p. 636.
Lamp-socket construction. O. S. Swanson. No. 1,336,395; Apr. 6; v. 273; p. 130.
Lamp-socket construction. O. S. Swanson. No. 1,361,642; Dec. 7; v. 281; p. 133.
Lamp socket, Dashboard. E. S. Preston. No. 1,348,893; Aug. 10; v. 277; p. 199.
Lamp socket, Electric-. R. B. Benjamin. No. 1,336,607; Apr. 13; v. 273; p. 230.
Lamp socket, Electric-. G. Frankel. No. 1,332,867; Mar. 2; v. 272; p. 132.
Lamp socket, Electric-. A. L. Smith. No. 1,331,287; Feb. 17; v. 271; p. 463.
Lamp socket, Electric-. G. Snider. No. 1,307,496; Jan. 6; v. 270; p. 115.
Lamp socket, Incandescent-. W. W. O. Fenety. No. 1,336,736; Apr. 13; v. 273; p. 255.
Lamp-socket, Plural. F. W. Minor and R. H. Wood. No. 1,333,182; Mar. 9; v. 272; p. 243.
Lamp-socket structure. H. A. Framburg. No. 1,335,828; Apr. 6; v. 273; p. 23.
Lamp-sockets, Automatic lockout for. A. J. Kellogg. No. 1,345,091; June 29; v. 275; p. 926.
Lamp, Standard electric. G. T. Irwin. No. 1,361,333; Dec. 7; v. 281; p. 70.
Lamp-standards, Concrete. E. G. Perl and L. C. Boss. No. 1,389,220; May 4; v. 274; p. 106.
Lamp stems, Machine for making incandescent-. C. Eisler. No. 1,338,500; Apr. 27; v. 278; p. 784.
Lamp-stems, Tray for. J. E. Jambor. (Reissue.) No. 14,077; June 8; v. 275; p. 362.
Lamp, Storage-battery. C. W. Hazelett. No. 1,338,222; Apr. 27; v. 273; p. 681.
Lamp-support. M. Ozlek. No. 1,339,336; Feb. 10; v. 271; p. 217.
Lamp-support. R. D. Parker. No. 1,331,668; Feb. 24; v. 271; p. 555.
Lamp-support. F. M. Rosenfeld. No. 1,346,918; July 20; v. 276; p. 434.
Lamp-support. F. M. Rosenfeld. No. 1,348,665; Aug. 3; v. 277; p. 104.
Lamp-support. C. Schoenfeld. No. 1,361,625; Dec. 7; v. 281; p. 130.
Lamp-support, Adjustable. M. Kossmann. No. 1,346,659; July 13; v. 276; p. 325.
Lamp support, Adjustable signal-. A. H. Handlan, Jr. No. 1,330,865; Feb. 17; v. 271; p. 384.
Lamp support, Electric-. J. E. Barry, Jr. No. 1,350,056; Aug. 17; v. 277; p. 500.
Lamp support, Electric-. A. C. Runkel. No. 1,350,423; Aug. 24; v. 277; p. 618.
Lamp switch, Hand-. F. G. Spiers. No. 1,344,735; June 29; v. 275; p. 859.
Lamp switch, Hand-. A. L. Staples. No. 1,349,860; Aug. 17; v. 277; p. 462.
Lamp system, Arc-. T. J. Murphy. No. 1,350,170; Aug. 17; v. 277; p. 521.
Lamp-turning mechanism. C. E. Dailey, Sr. No. 1,355,215; Oct. 12; v. 279; p. 205.
Lamp, Upright gas-. J. I. Robin. No. 1,351,128; Aug. 31; v. 277; p. 816.
Lamp, Vehicle-. A. L. Arenberg. No. 1,347,886; July 27; v. 276; p. 683.
Lamp, Vehicle-. J. W. Brown. No. 1,359,323; Nov. 16; v. 280; p. 519.
Lamp, Vehicle-. E. G. Camelinat. No. 1,334,838; Mar. 23; v. 272; p. 662.
Lamp, Vehicle-. F. W. Wakefield. No. 1,330,562; Feb. 10; v. 271; p. 259.
Lamp, Vehicle tail-. L. K. Snell. No. 1,352,096; Sept. 7; v. 278; p. 74.
Lamps, Adjustable support for electric. J. P. Johansson. No. 1,348,940; Aug. 10; v. 277; p. 210.
Lamps, Adjustment of electric. C. O. Harrington. No. 1,330,702; Feb. 10; v. 271; p. 286.
Lamps, Adjustment of incandescent. C. S. Snavely. No. 1,329,640; Feb. 3; v. 271; p. 55.
Lamps, Apparatus for making leading-in wires for incandescent. M. P. Wetmore. No. 1,359,135; Nov. 16; v. 280; p. 482.
Lamps, Attachment for wick-. A. Czarniecki. No. 1,345,141; June 29; v. 275; p. 936.
Lamps, Automatic air-brush machine for coating. C. E. Allen. No. 1,327,973; Jan. 13; v. 270; p. 265.
Lamps, Basing incandescent. A. Swan. No. 1,360,152; Nov. 23; v. 280; p. 729.
Lamps, Cluster-top for. M. Ozlek. No. 1,355,164; Oct. 12; v. 279; p. 194.
Lamps, Combined reflector and guard for electric. G. L. Miners. No. 1,334,710; Mar. 23; v. 272; p. 636.
Lamps, Cooking and heating attachment for. C. Savitsky. No. 1,357,426; Nov. 2; v. 280; p. 48.
Lamps, Electric cell for miners'. T. Stretton. No. 1,357,126; Oct. 26; v. 279; p. 665.
Lamps, Filament for incandescent electric. R. E. Myers and R. D. Hall. No. 1,363,162; Dec. 21; v. 281; p. 529.
Lamps, Filling. W. J. Cameron. No. 1,348,978; Aug. 10; v. 277; p. 216.
Lamps, Globe or shade holder for electric. J. C. Hollings. No. 1,346,375; July 13; v. 276; p. 268.
Lamps, Head construction for electric. M. Ozlek. No. 1,355,163; Oct. 12; v. 279; p. 194.
Lamps, Incandescent electric. T. Davis. No. 1,348,350; Aug. 3; v. 277; p. 43.
Lamps, Light-deflector for. J. D. Jones. No. 1,350,811; Aug. 24; v. 277; p. 693.
Lamps, Light-extinguisher for arc-. E. A. Sperry. No. 1,362,574; Dec. 14; v. 281; p. 363.
Lamps, Locking means for locking incandescent electric. C. H. Bissell. No. 1,357,539; Nov. 2; v. 280; p. 64.
Lamps, Manufacture of incandescent electric. H. D. Madden. No. 1,349,686; Aug. 17; v. 277; p. 429.
Lamps, Means for controlling automobile-. D. K. Stump. No. 1,334,187; Mar. 16; v. 272; p. 492.
Lamps, Means for supporting. E. G. Camelinat. No. 1,328,125; Jan. 13; v. 270; p. 294.
Lamps, Operation of arc-. A. L. Hadley. No. 1,334,854; Mar. 23; v. 272; p. 665.
Lamps or lanterns, Supporting-bracket for. J. W. Knoblock. No. 1,361,339; Dec. 7; v. 281; p. 72.
Lamps, portable, drills, &c., Extension-reel for electric. F. F. Oakley. No. 1,362,344; Dec. 14; v. 281; p. 318.
Lamps, projectors, &c., Construction of lenses for. W. T. Coulson. No. 1,350,957; Aug. 24; v. 277; p. 721.

Alphabetical list of inventions—Continued.

Lamps, Reflecting device for electric incandescent. S. M. Knopf. No. 1,353,916; Sept. 28; v. 278; p. 571.
Lamps, Refractive glass for automobile-. H. S. Evans. No. 1,342,744; June 8; v. 275; p. 274.
Lamps, Removing film from used metallic-filament electric. F. Harrison. No. 1,353,654; Sept. 21; v. 278; p. 476.
Lamps, searchlights, &c., Magnetic deflector for electric arcs in. J. P. Yorke. No. 1,353,693; Sept. 21; v. 278; p. 484.
Lamps, Shade for auto head-. F. E. Davis. No. 1,350,212; Aug. 17; v. 277; p. 530.
Lamps, Shade-holder support for. A. G. Kaufman. No. 1,338,635; Apr. 27; v. 273; p. 758.
Lamps, Thermodynamic extinguishing device for. M. H. Baker. No. 1,350,588; Aug. 24; v. 277; p. 651.
Lamps, Tiltable reflector for head-. L. G. Goetz and T. Edeburn. No. 1,344,687; June 29; v. 275; p. 850.
Lamps, Valve device for acetylene-. G. R. Shanklin. No. 1,334,506; Mar. 23; v. 272; p. 598.
Lamps, Valve device for acetylene-. G. R. Shanklin. No. 1,359,755; Nov. 23; v. 280; p. 650.
Lamps, Valve structure for acetylene-. G. R. Shanklin. No. 1,334,505; Mar. 23; v. 272; p. 598.
Lamps, Valve structure for acetylene-. G. R. Shanklin. No. 1,357,596; Nov. 2; v. 280; p. 74.
Lamps, Vaporizer-strainer for. A. G. Kaufman. No. 1,342,849; June 8; v. 275; p. 296.
Lamps, Water-feed appliance for acetylene-. F. Guy. No. 1,356,711; Oct. 26; v. 279; p. 534.
Lampblack-manufacturing plant. E. Viertel. No. 1,338,268; Apr. 27; v. 273; p. 690.
Lamplighter. E. C. Corado. No. 1,334,522; Mar. 23; v. 272; p. 601.
Land and water engine. A. Knepper. No. 1,357,571; Nov. 2; v. 280; p. 69.
Land-leveling device. L. D. Hopfield. No. 1,332,872; Mar. 2; v. 272; p. 183.
Land-leveling machine. G. A. Ghent. No. 1,337,355; Apr. 20; v. 273; p. 448.
Land, Means for draining marshy and swampy. J. H. Saltsman. No. 1,344,656; June 29; v. 275; p. 844.
Land-ridging machine. V. E. Parrish. No. 1,339,040; May 4; v. 274; p. 78.
Land-roller. F. H. Stoner. No. 1,345,515; July 6; v. 276; p. 37.
Landing and launching device. J. F. Crance. No. 1,361,751; Dec. 7; v. 281; p. 154.
Lanolin from crude wool-grease, Separation of. F. J. Metzger. No. 1,330,210; Feb. 10; v. 271; p. 193.
Lanolin, Making. W. C. Broadgate. No. 1,354,376; Sept. 28; v. 278; p. 665.
Lantern. J. N. Klema. No. 1,335,841; Apr. 6; v. 273; p. 26.
Lantern. J. N. Klema. No. 1,348,810; Aug. 3; v. 277; p. 130.
Lantern. E. M. Rosenbluth. No. 1,351,067; Aug. 31; v. 277; p. 805.
Lantern. F. W. Vinton. No. 1,336,112; Apr. 6; v. 273; p. 77.
Lantern-bail. J. H. Molthan. No. 1,358,385; Nov. 9; v. 280; p. 291.
Lantern-burner. W. S. Hamm and F. A. Schuetz. No. 1,341,122; May 25; v. 274; p. 670.
Lantern-burner. G. H. Rolfes. No. 1,337,795; Apr. 20; v. 273; p. 531.
Lantern, Electric. T. H. Jackson. No. 1,338,077; Mar. 9; v. 272; p. 224.
Lantern, Electric safety-. J. F. Monahan. No. 1,345,212; June 29; v. 275; p. 950.
Lantern-globe. A. Milburn. No. 1,353,839; Sept. 28; v. 278; p. 555.
Lantern, Light-projecting. I. D. Worcester. No. 1,349,706; Aug. 17; v. 277; p. 433.
Lantern, Portable electric hand-. J. W. Knoblock. No. 1,341,471; May 25; v. 274; p. 738.
Lantern, Railway electric. H. C. Breckenridge. No. 1,349,548; Aug. 10; v. 277; p. 329.
Lantern-slide-displaying apparatus. P. E. Petherick. No. 1,354,682; Oct. 5; v. 279; p. 47.
Lantern-top. T. L. Moore. No. 1,355,059; Oct. 5; v. 279; p. 121.
Lantern, Tubular. E. C. Everett. No. 1,338,911; May 4; v. 274; p. 48.
Lanterns, Ball-holding device for. E. C. Everett. No. 1,353,991; Sept. 28; v. 278; p. 586.
Lap-drawing machine. P. Nuckols. No. 1,351,678; Aug. 31; v. 277; p. 926.
Lapping-machine. C. G. Olson. No. 1,360,435; Nov. 30; v. 280; p. 852.
Lapping-machines, Starting device for. A. St. Onge. No. 1,362,446; Dec. 14; v. 281; p. 338.
Lard-dispensing machine. H. W. Williams. No. 1,340,590; May 18; v. 274; p. 498.
Lard-dispensing machines, Cooling apparatus for. H. W. Williams. No. 1,341,605; May 25; v. 274; p. 763.
Last. J. F. Collins and L. B. Weston. No. 1,346,297; July 13; v. 276; p. 253.
Last. E. W. Gerrish. No. 1,338,650; Apr. 27; v. 273; p. 761.
Last. J. C. Schelter. No. 1,330,905; Feb. 17; v. 271; p. 392.
Last and last-making. P. F. W. C. Krippendorf. No. 1,352,518; Sept. 14; v. 278; p. 190.
Last-pulling machine. M. F. Brogan. No. 1,361,822; Dec. 14; v. 281; p. 215.
Last, Rigid-bottom collapsible. A. F. Littlefield. No. 1,359,610; Nov. 23; v. 280; p. 621.
Last, Rigid-bottom collapsible. A. F. Littlefield. No. 1,359,611; Nov. 23; v. 280; p. 621.
Lasts, Manufacture of. P. F. W. C. Krippendorf. No. 1,335,062; Mar. 30; v. 272; p. 764.
Lasts, Working uppers over. M. Brock. No. 1,328,314; Jan. 20; v. 270; p. 367.
Lasting apparatus. C. C. Blake. No. 1,332,197; Mar. 2; v. 272; p. 4.
Lasting device. S. Strauss. No. 1,363,199; Dec. 21; v. 281; p. 536.
Lasting-machine. O. Ashton. No. 1,335,779; Apr. 6; v. 273; p. 15.
Lasting-machine. M. Brock. No. 1,341,732; June 1; v. 275; p. 24.
Lasting-machine. L. A. Casgrain. No. 1,358,137; Nov. 9; v. 280; p. 241.
Lasting-machine. W. A. Elliasson. No. 1,349,192; Aug. 10; v. 277; p. 258.
Lasting-machine. W. T. B. Roberts. No. 1,360,442; Nov. 30; v. 280; p. 853.
Lasting-machine. E. W. Varney. No. 1,358,127; Nov. 9; v. 280; p. 239.
Lasting machine, Staple-. M. Brock. No. 1,327,196; Jan. 6; v. 270; p. 59.
Lasting-machines, Holddown for. M. Brock. No. 1,331,616; Feb. 24; v. 271; p. 546.
Latch. W. H. Appleby. No. 1,332,876; Mar. 9; v. 272; p. 185.
Latch. C. S. Barnard. No. 1,334,481; Mar. 23; v. 272; p. 593.
Latch. O. J. Carter. No. 1,330,168; Feb. 10; v. 271; p. 186.
Latch. E. Crompton and C. L. Crooks. (Reissue.) No. 14,953; Oct. 5; v. 279; p. 131.
Latch. A. L. Davenport and A. J. James. No. 1,356,604; Oct. 26; v. 279; p. 563.
Latch. E. S. Ekstrom. No. 1,345,913; July 6; v. 276; p. 116.
Latch. P. Gazzi. No. 1,340,605; May 18; v. 274; p. 501.
Latch. L. W. Holland. No. 1,341,802; June 1; v. 275; p. 38.
Latch. N. Lee. No. 1,346,129; July 13; v. 276; p. 220.
Latch. C. A. Massoll. No. 1,338,689; May 4; v. 274; p. 7.
Latch. J. B. May. No. 1,329,719; Feb. 3; v. 271; p. 70.
Latch. S. H. Miller. No. 1,351,300; Aug. 31; v. 277; p. 851.
Latch. H. J. Peterson. No. 1,338,153; Apr. 27; v. 273; p. 668.
Latch. P. Raccio. No. 1,351,686; Aug. 31; v. 277; p. 927.
Latch. C. F. Weil. No. 1,359,774; Nov. 23; v. 280; p. 654.
Latch. H. Werner. No. 1,356,479; Oct. 19; v. 279; p. 491.
Latch and burglar-alarm, Door-. A. A. Fisk. No. 1,353,388; Sept. 21; v. 278; p. 421.
Latch and keeper. J. F. White. No. 1,334,575; Mar. 23; v. 272; p. 612.
Latch and lock, Combined. E. Crompton and C. L. Crooks. No. 1,355,735; Oct. 12; v. 279; p. 305.
Latch and locking apparatus, Door. F. Schmidgall. No. 1,334,320; Mar. 23; v. 272; p. 364.
Latch, Automobile-door. F. Kleinsmith. No. 1,348,882; Aug. 10; v. 277; p. 197.
Latch, Automobile-door. H. S. Richardson. No. 1,347,229; July 20; v. 276; p. 495.
Latch construction. D. W. Tower. No. 1,351,222; Aug. 31; v. 277; p. 835.
Latch device. J. Schaeffer. No. 1,333,684; Mar. 16; v. 272; p. 398.
Latch, Door-. L. D. Augir. No. 1,330,773; Feb. 17; v. 271; p. 367.
Latch, Door-. E. B. Barr. No. 1,353,447; Sept. 21; v. 278; p. 433.
Latch, Door-. K. S. Baxter. No. 1,362,217; Dec. 14; v. 281; p. 294.
Latch, Door-. G. H. Elwell. No. 1,356,612; Oct. 26; v. 279; p. 565.
Latch, Door-. A. E. Fohn. No. 1,347,001; July 27; v. 276; p. 706.
Latch, Door-. W. A. Freeman. No. 1,337,447; Apr. 20; v. 273; p. 465.
Latch, Door-. L. Hildreth. No. 1,335,235; Mar. 30; v. 272; p. 796.
Latch, Door-. M. J. Horn and W. Watson. No. 1,354,752; Oct. 5; v. 279; p. 61.
Latch, Door-. W. M. Katzberg. No. 1,327,916; Jan. 13; v. 270; p. 255.
Latch, Door-. J. W. Wallace. No. 1,360,835; Nov. 30; v. 280; p. 930.
Latch, Door, gate, &c. H. R. Kellerman. No. 1,350,258; Aug. 17; v. 277; p. 539.
Latch, Door or ventilator. W. Stahl. No. 1,361,194; Dec. 7; v. 281; p. 42.

Digitized by Google

Latch, Door or window. A. E. Cafmeyer. No. 1,354,597; Oct. 5; v. 279; p. 30.
Latch, Double-spring. J. J. Adams. No. 1,332,874; Mar. 9; v. 272; p. 185.
Latch, Elevator-gate. W. S. Smith. No. 1,358,592; Nov. 9; v. 280; p. 332.
Latch, Gate-. B. F. Bramblett. No. 1,359,788; Nov. 23; v. 280; p. 657.
Latch, Gate-. V. G. Bruber. No. 1,338,209; Apr. 27; v. 273; p. 679.
Latch, Gate-. J. B. Clay. No. 1,347,991; July 27; v. 276; p. 704.
Latch, Gate-. G. W. Goss. No. 1,358,077; Nov. 9; v. 280; p. 220.
Latch, Gate-. E. J. Grending. No. 1,348,715; Aug. 3; v. 277; p. 113.
Latch, Gate-. L. Magee. No. 1,341,569; May 25; v. 274; p. 757.
Latch, Gate-. S. A. Slauson. No. 1,360,040; Nov. 23; v. 280; p. 707.
Latch-hook. C. S. Dahl. No. 1,358,708; Nov. 16; v. 280; p. 400.
Latch-lock. J. Wolf. No. 1,336,496; Apr. 13; v. 273; p. 208.
Latch, Lockable handbag-. B. J. Richardson and C. S. Barber. No. 1,357,725; Nov. 2; v. 280; p. 99.
Latch, Motor-vehicle hood. H. R. Saxon. No. 1,361,622; Dec. 7; v. 281; p. 130.
Latch-operating device. T. J. Kehoe. No. 1,357,991; Nov. 9; v. 280; p. 212.
Latch, Rim night-. T. E. Crouch. No. 1,350,299; Aug. 24; v. 277; p. 593.
Latch, Sash-. W. S. Hamm. No. 1,353,834; Sept. 28; v. 278; p. 554.
Latch, Self-operating. P. E. Dutcher. No. 1,338,219; Apr. 27; v. 273; p. 681.
Latch set. H. Blye. No. 1,327,695; Jan. 13; v. 270; p. 214.
Latch, Silo-door. H. M. Crocker. No. 1,330,847; Feb. 17; v. 271; p. 380.
Latch, Sliding-door. J. G. Wentsch. No. 1,360,839; Nov. 30; v. 280; p. 931.
Latch, Thumb-. S. W. Parsons and A. D. Waters. No. 1,334,789; Mar. 23; v. 272; p. 652.
Latch, Window-. D. D. Lewis. No. 1,328,284; Jan. 20; v. 270; p. 361.
Latching device. A. H. Bakken. No. 1,349,356; Aug. 10; v. 277; p. 291.
Latching device. B. J. Cohon. No. 1,339,320; May 4; v. 274; p. 123.
Latching device for casement-windows, doors, and gates. G. L. Gilberthorpe. No. 1,359,800; Nov. 23; v. 280; p. 659.
Latching mechanism. C. Irion. No. 1,335,375; Mar. 30; v. 272; p. 823.
Latex and product obtained thereby, Treating. E. M. Slocum. No. 1,332,925; Mar. 9; v. 272; p. 195.
Lath-boards, Machine for molding. G. H. Ellis. No. 1,343,909; June 22; v. 275; p. 632.
Lath, Making. J. P. Sexton. No. 1,344,826; June 29; v. 275; p. 877.
Lath, Metal. S. Scanlon. No. 1,351,694; Aug. 31; v. 277; p. 928.
Lath-weaving machine. H. E. Law and E. Pooler. No. 1,330,908; Apr. 13; v. 273; p. 289.
Lather-edge-finishing machines and method therefor. F. W. Merrick. No. 1,339,776; May 11; v. 274; p. 286.
Lathe. D. L. Derron. No. 1,329,042; Jan. 27; v. 270; p. 533.
Lathe. L. D. Farmer. No. 1,332,978; Mar. 9; v. 272; p. 205.
Lathe. W. F. Groene. No. 1,358,728; Nov. 16; v. 280; p. 404.
Lathe. W. F. Groene. No. 1,363,506; Dec. 28; v. 281; p. 636.
Lathe. H. M. Lofton. No. 1,338,742; May 4; v. 274; p. 17.
Lathe. C. Overgaard. No. 1,328,962; Jan. 27; v. 270; p. 518.
Lathe attachment for grinding cylinders. E. W. Koppe. No. 1,361,736; Dec. 7; v. 281; p. 152.
Lathe, Automatic. O. Kylin. No. 1,355,480; Oct. 12; v. 279; p. 256.
Lathe, Automatic turret-. J. C. Potter. No. 1,363,752; Dec. 28; v. 281; p. 683.
Lathe, Automatic multiple-spindle. J. C. Potter. No. 1,363,751; Dec. 28; v. 281; p. 683.
Lathe-brake. E. M. Faust. No. 1,354,607; Oct. 5; v. 279; p. 32.
Lathe-center. E. M. Hoover. No. 1,338,451; Apr. 27; v. 273; p. 724.
Lathe-center. V. A. Kottinger. No. 1,358,164; Nov. 9; v. 280; p. 246.
Lathe center and driver. G. Weatherby. No. 1,361,120; Dec. 7; v. 281; p. 28.
Lathe-dog. L. G. Daniels. No. 1,331,003; Feb. 17; v. 271; p. 411.
Lathe-dog. C. A. Dies. No. 1,333,707; Mar. 16; v. 272; p. 403.
Lathe-dog. R. W. Lofstrom. No. 1,342,122; June 1; v. 275; p. 100.
Lathe-dog, Chain-type. E. T. Jenks. No. 1,330,710; Feb. 10; v. 271; p. 280.
Lathe for cutting irregular objects. F. W. Potter. No. 1,362,182; Dec. 14; v. 281; p. 286.
Lathe-frame. G. A. Steinle and L. R. Taylor. No. 1,333,043; Mar. 9; v. 272; p. 217.
Lathe-gearing. L. Thiel. No. 1,342,925; Sept. 14; v. 278; p. 272.
Lathe-headstocks, Lubricating system for. G. E. Greenleaf. No. 1,342,904; June 8; v. 275; p. 307.
Lathe, Last-. S. E. Boynton. No. 1,362,185; Dec. 14; v. 281; p. 287.
Lathe-machine. P. V. Vernon. No. 1,339,836; May 11; v. 274; p. 298.
Lathe, Multiple-tool. W. W. Wallace. No. 1,353,686; Sept. 21; v. 278; p. 482.
Lathe, Pattern-. F. Nueske. No. 1,354,453; Sept. 28; v. 278; p. 680.
Lathe, Portable metal-turning. G. W. Prisbrey. No. 1,352,380; Sept. 7; v. 278; p. 127.
Lathe-stopping mechanism. E. C. Ballman. No. 1,340,811; May 18; v. 274; p. 539.
Lathe-tool. F. H. Halstead. No. 1,342,745; June 1; v. 275; p. 274.
Lathe-tool. F. H. Halstead. No. 1,342,746; June 8; v. 275; p. 274.
Lathe, Turning. A. Sundt. No. 1,341,946; June 1; v. 275; p. 65.
Lathe, Valve-. A. C. Savidge and F. D. Hatfield. No. 1,339,791; May 11; v. 274; p. 289.
Lathe, Vertically-adjustable engine-. A. C. Booth. No. 1,327,604; Jan. 6; v. 270; p. 135.
Lathes and grinders, Friction-driver for. G. B. Amundson. No. 1,336,548; Apr. 13; v. 273; p. 219.
Lathes and other machine-tools, Interconnected clutch and gear shift for. J. Macnab and G. H. Smith. No. 1,342,126; June 1; v. 275; p. 101.
Lathes, Apron mechanism for. A. H. Ingle and W. E. Ward. No. 1,345,676; July 6; v. 276; p. 68.
Lathes, Apron mechanism for. A. H. Ingle and W. E. Ward. No. 1,362,626; Dec. 21; v. 281; p. 425.
Lathes, Carriage-bed for. C. M. Conradson. No. 1,352,183; Sept. 7; v. 278; p. 89.
Lathes, Center-point device for. J. C. Kell. No. 1,345,368; July 6; v. 276; p. 8.
Lathes, Cutter instrument for wood-turning. F. S. Buck. No. 1,361,305; Dec. 7; v. 281; p. 64.
Lathes, Cylinder-grinding attachment for. W. T. Snell. No. 1,335,994; Apr. 6; v. 273; p. 55.
Lathes, &c., Device for holding and centering tools for. E. P. Basch and F. Woodall. No. 1,354,715; Oct. 5; v. 279; p. 54.
Lathes, Gear mechanism for. F. Hardinge. No. 1,362,790; Dec. 21; v. 281; p. 457.
Lathes, Grading mechanism, a scale and forming said scale for last-turning. E. J. Prindle. No. 1,334,400; Mar. 23; v. 272; p. 579.
Lathes, Headstock-bearing for. G. E. Greenleaf. No. 1,345,671; July 6; v. 276; p. 67.
Lathes, Interior-slotting attachment for. E. N. Moor. No. 1,333,210; Mar. 9; v. 272; p. 248.
Lathes, Micrometer gage or stop device for. W. H. Runge. No. 1,339,984; May 11; v. 274; p. 326.
Lathes, Relieving attachment for. O. Cronau. No. 1,350,361; Aug. 24; v. 277; p. 605.
Lathes, Relieving attachment for. B. J. Phillips. No. 1,350,735; Aug. 24; v. 277; p. 679.
Lathes, Relieving attachment for. W. H. Runge. No. 1,339,983; May 11; v. 274; p. 325.
Lathes, Relieving attachment for. G. D. Sundstrand. No. 1,338,757; May 4; v. 274; p. 20.
Lathes, Tool-holder for. A. Connell. No. 1,331,322; Feb. 17; v. 271; p. 469.
Lathes, Turret-. S. Jachimowicz. No. 1,346,809; July 20; v. 276; p. 430.
Lattice-truss. D. W. Morrison. No. 1,345,501; July 6; v. 276; p. 34.
Laundry-checking device. J. H. Todd. No. 1,343,423; June 15; v. 275; p. 471.
Laundry-drier. J. J. Power. No. 1,338,696; May 4; v. 274; p. 9.
Laundry-hanger. M. Korkus. No. 1,351,335; Aug. 31; v. 277; p. 558.
Laundry-machine. J. H. Hendrickson. No. 1,332,257; Mar. 2; v. 272; p. 15.
Laundry-machine. A. B. Miller. No. 1,359,721; Nov. 23; v. 280; p. 643.
Laundry-marking clip. R. Hoffman. No. 1,349,570; Aug. 17; v. 277; p. 406.
Laundry-stick. B. H. Millyard. No. 1,345,019; June 29; v. 275; p. 913.
Laundry-tub. A. M. Nellsen. No. 1,340,852; May 18; v. 274; p. 546.
Laundry-wringer. H. H. Belding. No. 1,328,361; Jan. 20; v. 270; p. 376.
Lavatory. J. W. Sharp, Jr. No. 1,334,407; Mar. 23; v. 272; p. 580.
Lavatory. E. G. Watrous. No. 1,335,946; Apr. 6; v. 273; p. 45.
Lavatory, Portable. E. S. Curliss. No. 1,358,937; Nov. 16; v. 280; p. 446.
Lawn-edge trimmer. H. Haugen. No. 1,329,176; Jan. 27; v. 270; p. 558.
Lawn-edge-trimming gage. J. Lees. No. 1,343,269; June 15; v. 275; p. 441.

Digitized by Google

Alphabetical list of inventions—Continued.

Lawn-sprinkler, Automatic. R. Silky. No. 1,334,808; Mar. 23; v. 272; p. 656.
Lawn-sprinkling device. W. H. Coles. No. 1,349,874; Aug. 17; v. 277; p. 465.
Lawn-trimmer. S. J. Fulton. No. 1,331,750; Feb. 24; v. 271; p. 571.
Lawn-trimmer. E. E. Muzzy. No. 1,351,185; Aug. 31; v. 277; p. 827.
Lawns, gardens, fields, &c., Sprinkler for irrigating. W. D. Ballerstedt. No. 1,337,744; Apr. 20; v. 273; p. 521.
Lawns, Implement for use on. H. M. McNeill. No. 1,338,144; Apr. 27; v. 273; p. 666.
Lay figures, Arms for exhibition. P. Imans. No. 1,340,446; May 18; v. 274; p. 470.
Leaching-machine. G. S. Dyer. No. 1,353,463; Sept. 21; v. 278; p. 436.
Leaching-tank. W. E. Giescke. No. 1,330,463; Feb. 10; v. 271; p. 240.
Lead and like ores and products, Smelting. T. W. Cavers. No. 1,343,656; June 15; v. 275; p. 517.
Lead and zinc from their ores, Extraction of. F. E. Elmore. No. 1,346,642; July 13; v. 276; p. 321.
Lead arsenate, Making. E. O. Barstow. No. 1,349,707; Aug. 17; v. 277; p. 433.
Lead-burning machine. P. E. Norris. No. 1,358,869; Nov. 16; v. 280; p. 433.
Lead from copper-scrap, Removing. J. L. Jones. No. 1,349,382; Aug. 10; v. 277; p. 296.
Lead, Making arsenate of. O. F. Hedenburg and D. S. Pratt. No. 1,344,035; June 22; v. 275; p. 657.
Lead or crayon holder. A. M. Tozzi. No. 1,355,627; Oct. 12; v. 279; p. 284.
Lead, Producing white. E. Euston. No. 1,349,334; Aug. 10; v. 277; p. 286.
Lead, Production of. G. F. Greenwood. No. 1,338,440; Apr. 27; v. 273; p. 722.
Lead-varying mechanism. F. Müller. No. 1,347,789; July 27; v. 276; p. 664.
Leads, Multiconducting. W. E. Krone. No. 1,337,080; Apr. 13; v. 273; p. 322.
Leaf and waste furnace, Portable. A. Dolen. No. 1,338,125; Apr. 27; v. 273; p. 663.
Leaf binder, Loose-. J. Carney. No. 1,328,561; Jan. 20; v. 270; p. 414.
Leaf binder, Loose-. F. L. Manny. No. 1,327,624; Jan. 13; v. 270; p. 200.
Leaf cover and copy-holder, Loose-. S. Cody. No. 1,328,318; Jan. 20; v. 270; p. 368.
Leaf-spring. C. Boles. No. 1,327,016; Jan. 6; v. 270; p. 26.
Leaf-spring. C. J. Quick. No. 1,348,446; Aug. 3; v. 277; p. 62.
Leaf-supporting mechanism. B. Irvine. No. 1,350,503; Aug. 24; v. 277; p. 634.
Leaf-turner. A. Gangwisch. No. 1,354,820; Oct. 5; v. 279; p. 75.
Leaf-turner. K. O. W. Lindquist. No. 1,327,621; Jan. 13; v. 270; p. 200.
Leaf-turner. A. V. López. No. 1,351,110; Aug. 31; v. 277; p. 812.
Leaf-turning device. E. Behr. No. 1,352,015; Sept. 14; v. 278; p. 289.
Leaf-turning device. C. Ciabotti. No. 1,345,316; June 29; v. 275; p. 971.
Leak-stopper. J. S. Mohan. No. 1,334,778; Mar. 23; v. 272; p. 650.
Leak-stopping composition. G. W. B. Neff. No. 1,343,150; June 8; v. 275; p. 355.
Leakage qualities of blanks. Apparatus for testing the. L. Gerhardt. No. 1,359,799; Nov. 23; v. 280; p. 659.
Leash-stick. C. A. Fetters. No. 1,331,633; Feb. 24; v. 271; p. 549.
Leather and joint made thereby, Joining. W. Gibb. No. 1,335,830; Apr. 6; v. 273; p. 24.
Leather and leather substitutes and making same, Dressing for. A. R. Caldwell. No. 1,338,286; Apr. 27; v. 273; p. 693.
Leather and painted and varnished surfaces, Dressing for. W. C. Harris. No. 1,329,968; Feb. 3; v. 271; p. 117.
Leather and product thereof, Forming artificial. C. E. Arnold. No. 1,350,271; Aug. 17; v. 277; p. 541.
Leather and product thereof, Producing artificial. J. Lynah. No. 1,350,281; Aug. 17; v. 277; p. 543.
Leather article, Artificial-. R. A. Fessenden. No. 1,357,449; Nov. 2; v. 280; p. 47.
Leather, Artificial. A. A. Somerville. No. 1,337,802; Apr. 20; v. 273; p. 582.
Leather, Composition of matter for use as a substitute for. G. Christenson. No. 1,332,320; Mar. 2; v. 272; p. 27.
Leather, Dampening. F. J. Blatz. No. 1,352,244; Sept. 7; v. 278; p. 102.
Leather, Detanning chrome-. M. C. Lamb. No. 1,340,721; May 18; v. 274; p. 522.
Leather, Drying patent-. E. Hintz and H. Schulz. No. 1,346,091; July 6; v. 276; p. 151.
Leather, Drying varnished (patent). H. Schulz. No. 1,353,937; Sept. 28; v. 278; p. 575.
Leather-flexing machine. R. Hart. No. 1,355,065; Oct. 19; v. 279; p. 390.
Leather graining, boarding, or softening machine. J. E. Spencer. No. 1,330,962; Feb. 17; v. 271; p. 403.
Leather, Machine for joining pieces of. L. J. Henriksen. No. 1,337,069; Apr. 13; v. 273; p. 320.
Leather, Machine for skiving. C. A. Hirth. No. 1,348,221; Aug. 3; v. 277; p. 18.
Leather, Machine for scrubbing, brushing, and cleansing. C. Ruhe and F. R. Barker. No. 1,356,016; Oct. 19; v. 279; p. 400.
Leather, Machine for seasoning or finishing. J. U. Flanagan. No. 1,352,186; Sept. 7; v. 278; p. 90.
Leather, Making. A. Rogers. No. 1,346,385; July 13; v. 276; p. 270.
Leather, Making glazed kid-. M. A. Zdanowski. No. 1,345,429; July 6; v. 276; p. 20.
Leather, Manufacture of. W. C. Blatz. No. 1,334,216; Mar. 16; v. 272; p. 497.
Leather, Manufacture of Mocha. L. Forse. No. 1,339,751; May 11; v. 274; p. 282.
Leather-marking apparatus. R. E. Touchett. No. 1,350,346; Aug. 24; v. 277; p. 602.
Leather or skins, Staining. M. Poto. No. 1,345,234; June 29; v. 275; p. 954.
Leather-paring machine. J. Loose. No. 1,345,941; July 6; v. 276; p. 121.
Leather-press. J. T. Smith. No. 1,344,214; June 22; v. 275; p. 691.
Leather-scarfing machine. A. W. Rockwood. No. 1,362,964; Dec. 21; v. 281; p. 490.
Leather, Seasoning. M. A. Zdanowski. No. 1,345,430; July 6; v. 276; p. 20.
Leather-skiving machine. G. O. Terry. No. 1,336,597; Apr. 13; v. 273; p. 228.
Leather-stitching machine. J. S. Wentworth. No. 1,356,246; Oct. 19; v. 279; p. 447.
Leather-strap cutter. M. Kremeniuk. No. 1,359,812; Nov. 23; v. 280; p. 661.
Leather substitute. J. D. Prince. No. 1,336,858; Apr. 13; v. 273; p. 279.
Leather, Wetting-out machine for. E. B. Ayres and T. H. Rhoads. No. 1,357,021; Oct. 26; v. 279; p. 645.
Leather-working machine. F. M. McCarthy. No. 1,354,572; Oct. 5; v. 279; p. 25.
Leather-working machine. F. W. Tucker. No. 1,340,262; May 18; v. 274; p. 435.
Leather-working machine. F. Wayland. No. 1,355,437; Oct. 12; v. 279; p. 248.
Leather-working machine. R. F. Whitney. No. 1,344,467; June 22; v. 275; p. 742.
Leatherold and making same. B. Fritzsch. No. 1,334,297; Mar. 23; v. 272; p. 559.
Leaves from packages, Method and apparatus for separating. J. B. Harriss. No. 1,328,734; Jan. 20; v. 270; p. 446.
Leaves from packages, Method and apparatus for separating. J. B. Harriss. No. 1,328,735; Jan. 20; v. 270; p. 446.
Leaves, Method of and apparatus for separating. J. B. Harriss. No. 1,328,733; Jan. 20; v. 270; p. 445.
Ledger. J. C. Dawson. No. 1,340,157; May 18; v. 274; p. 416.
Ledger, Loose-leaf. C. T. Nankervis. No. 1,349,577; Aug. 17; v. 277; p. 408.
Ledger, Office-. J. F. G. Jongepier. No. 1,343,879; June 15; v. 275; p. 562.
Ledger, Office-. J. F. G. Jongepier. No. 1,355,903; Oct. 19; v. 279; p. 378.
Ledger-sheet. W. P. Keene. No. 1,357,458; Nov. 2; v. 280; p. 49.
Ledger-sheet. W. P. Keene. No. 1,357,638; Nov. 2; v. 280; p. 82.
Leer-feeder. H. W. McNaught. No. 1,363,609; Dec. 28; v. 281; p. 656.
Leers, Means for conveying ware to. R. W. Niver. No. 1,356,167; Oct. 19; v. 279; p. 431.
Leg, Artificial. C. Desoutter. No. 1,335,781; Apr. 6; v. 273; p. 15.
Leg, Artificial. L. C. Desoutter. No. 1,343,617; June 15; v. 275; p. 509.
Leg, Artificial. P. A. Ingold. No. 1,361,062; Dec. 7; v. 281; p. 16.
Leg, Artificial. J. R. B. Norfolk. No. 1,352,682; Sept. 14; v. 278; p. 223.
Leg, Artificial. G. W. Prisbrey. No. 1,350,518; Aug. 24; v. 277; p. 637.
Leg extension. F. Nelson. No. 1,336,480; Apr. 13; v. 273; p. 206.
Legging. U. S. De Moulin. No. 1,341,885; June 1; v. 275; p. 53.
Legging. E. Peters and A. Lambert. No. 1,347,657; July 27; v. 276; p. 637.
Legging. C. S. Prince. No. 1,363,348; Dec. 28; v. 281; p. 606.
Legging. E. M. Witherell. No. 1,334,825; Mar. 23; v. 272; p. 659.
Lemon-juice extractor. J. W. Brenkert. No. 1,344,857; June 29; v. 275; p. 883.
Lens. L. W. Bugbee. No. 1,347,319; July 20; v. 276; p. 514.
Lens. H. W. Hill. No. 1,340,715; May 18; v. 274; p. 521.
Lens. J. J. Madden. No. 1,346,410; July 13; v. 276; p. 275.
Lens. A. L. Morrison. No. 1,363,805; Dec. 28; v. 281; p. 694.
Lens. E. D. Tillyer. No. 1,340,189; May 18; v. 274; p. 422.

Digitized by Google

Lens. E. D. Tillyer. No. 1,356,670; Oct. 26; v. 279; p. 576.
Lens. A. Warmisham. No. 1,361,207; Dec. 7; v. 281; p. 45.
Lens and making same. O. W. Potts. No. 1,332,410; Mar. 2; v. 272; p. 45.
Lens blank, Ophthalmic-. A. J. Cross. No. 1,340,021; May 11; v. 274; p. 332.
Lens-blocking device. L. W. Bugbee. No. 1,355,211; Oct. 12; v. 279; p. 204.
Lens-clarifying apparatus. C. De-Felice. No. 1,354,433; Sept. 28; v. 278; p. 676.
Lens frame, Ophthalmic-. W. E. McDonell. No. 1,362,715; Dec. 21; v. 281; p. 442.
Lens frame, Ophthalmic-test-. M. Poser. No. 1,337,265; Apr. 20; v. 273; p. 430.
Lens-grinding machine. C. Goodwin. No. 1,343,050; June 8; v. 275; p. 335.
Lens-holder. S. G. Marshall. No. 1,337,086; Apr. 13; v. 273; p. 323.
Lens-molding machine. H. W. Hill. No. 1,332,725; Mar. 2; v. 272; p. 105.
Lens-mount. F. A. Persohn; No. 1,339,974; May 11; v. 274; p. 324.
Lens-mount. W. B. Wescott. No. 1,331,174; Feb. 17; v. 271; p. 443.
Lens-mount safety-lock. A. Koehler. No. 1,357,996; Nov. 9; v. 280; p. 213.
Lens-mounting. L. Link. No. 1,328,441; Jan. 20; v. 270; p. 390.
Lens-mounting. C. S. Rees. No. 1,334,551; Mar. 23; v. 272; p. 607.
Lens-mounting, Optical. G. H. Chapel. No. 1,362,226; Dec. 14; v. 281; p. 296.
Lens, Multifocal ophthalmic. A. J. Cross. No. 1,360,727; Nov. 30; v. 280; p. 910.
Lens, Ophthalmic. H. H. Styll. No. 1,356,666; Oct. 26; v. 279; p. 575.
Lens, Ophthalmic. H. H. Styll. No. 1,359,204; Nov. 16; v. 280; p. 595.
Lens, Optical. H. W. Hill. No. 1,362,309; Dec. 14; v. 281; p. 312.
Lens-testing instrument. H. B. Mathewson. No. 1,336,040; Apr. 6; v. 273; p. 64.
Lenses, apparatus for testing. F. Twyman. No. 1,347,133; July 20; v. 276; p. 477.
Lenses for grinding and polishing, Method for preparing. W. Taylor and F. W. Preston. No. 1,358,676; Nov. 9; v. 280; p. 349.
Lenses for grinding and polishing, Apparatus for preparing. W. Taylor and F. W. Preston. No. 1,358,677; Nov. 9; v. 280; p. 349.
Lenses, Forming. H. W. Hill. No. 1,332,724; Mar. 2; v. 272; p. 105.
Lenses, Grinding and polishing. A. C. Robertson and F. Volk. No. 1,343,522; June 15; v. 275; p. 490.
Lenses, Machine for making spotting-wheels for manufacturing. L. W. Bugbee. No. 1,333,383; Mar. 9; v. 272; p. 280.
Lenses, Manufacturing of. T. B. Drescher. No. 1,350,441; Aug. 24; v. 277; p. 622.
Lenses, Mechanism for making bifocal. A. E. Paige. No. 1,347,653; July 27; v. 276; p. 636.
Lenses, Polishing-tool for ophthalmic. C. C. Allen. No 1,356,330; Oct. 19; v. 279; p. 463.
Lenses, Producing bifocal. C. W. Conner. (Reissue.) No. 14,822; Mar. 23; v. 672; p. 683.
Let-off-rod operator. W. Curran. No. 1,353,727; Sept. 21; v. 278; p. 491.
Letter-box. F. P. Boas. No. 1,354,946; Oct. 5; v. 279; p. 99.
Letter-box-closure operator. G. E. Benton. No. 1,342,890; June 8; v. 275; p. 304.
Letter-box lock, Combination. A. Olevin. No. 1,353,064; Sept. 14; v. 278; p. 299.
Letter-boxes, Circuit-closer for. F. Bachila. No. 1,345,116; June 29; v. 275; p. 931.
Letter-boxes, Time-lock attachment for. J. Jurzina. No. 1,359,070; Nov. 16; v. 280; p. 471.
Letter-cutting machine. F. M. Young. No. 1,347,570; July 27; v. 276; p. 620.
Letter-files, Arrangement for. S. Ringer. No. 1,336,584; Apr. 13; v. 273; p. 226.
Letter-holder for packages. A. P. Simao. No. 1,338,875; May 4; v. 274; p. 41.
Letter-outliner. E. W. Howe. No. 1,331,262; Feb. 17; v. 271; p. 458.
Letter-press printing. C. Winkler. No. 1,356,420; Oct. 19; v. 279; p. 480.
Letter-sheet and envelop, Combined. M. A. Brandt. No. 1,340,114; May 11; v. 274; p. 351.
Letter-sheet and envelop, Combined. F. I. Sanda. No. 1,345,961; July 6; v. 276; p. 125.
Letters, Device for holding packages of. G. W. Staples. No. 1,330,659; Feb. 10; v. 271; p. 277.
Letters, documents, &c., as well as register for same, Box for keeping registered. H. G. H. Brække and K. Jonassen. No. 1,360,086; Nov. 23; v. 280; p. 716.
Letters, Duplicating device for. G. H. Sculthorp. No. 1,334,175; Mar. 6; v. 272; p. 490.
Level. W. J. Stapleton. No. 1,332,928; Mar. 9; v. 272; p. 195.
Level. P. Wernick. No. 1,359,474; Nov. 16; v. 280; p. 550.
Level and plumb, Gravity. J. E. Lillberg. No. 1,338,639; Apr. 27; v. 273; p. 759.
Level and tube-holder therefor. W. A. Roeske. No. 1,348,742; Aug. 3; v. 277; p. 117.
Level, Dumpy-. C. Heinrich. No. 1,341,209; May 25; v. 274; p. 687.
Level, Farm-. J. R. Weathersby. No. 1,346,619; July 13; v. 276; p. 316.
Level-indicator and inclinometer. F. W. Charles. No. 1,343,657; June 15; v. 275; p. 517.
Level, Protractor- E. L. Powell. No. 1,339,787; May 11; v. 274; p. 289.
Level, Shipwright's. R. MacDonald. No. 1,359,882; Nov. 23; v. 280; p. 675.
Level, Track-. F. P. Longcor. No. 1,341,377; May 25; v. 274; p. 720.
Leveling attachment. H. F. Unruh. No. 1,349,928; Aug. 17; v. 277; p. 474.
Leveling machine, Sole-. W. C. Baxter. No. 1,351,735; Sept. 7; v. 278; p. 4.
Lever and fulcrum, Interlocking flush-tank. W. U. Griffiths. No. 1,344,128; June 22; v. 275; p. 675.
Lever attachment. C. H. Walker. (Reissue.) No. 14,944; Aug. 31; v. 277; p. 935.
Lever brake, Double-. G. P. Roberts. No. 1,334,754; Mar. 23; v. 272; p. 645.
Lever-chocking device. O. C. Goulet. No. 1,329,079; Jan. 27; v. 270; p. 540.
Lever, Closet-tank flush-. G. A. Saal. No. 1,334,173; Mar. 16; v. 272; p. 490.
Lever, Clutch-control. C. Leach. No. 1,341,566; May 25; v. 274; p. 756.
Lever control, Auxiliary-spark-. L. J. Cooper. No. 1,349,944; Aug. 17; v. 277; p. 478.
Lever escapement, Double-roller-. H. Colomb. No. 1,345,318; June 29; v. 275; p. 971.
Lever, Gear-shift. C. L. Johnson. No. 1,346,209; July 13; v. 276; p. 235.
Lever-lock. R. M. Grupe and T. S. Hunt. No. 1,341,504; May 25; v. 274; p. 744.
Lever-lock, Electrically-controlled. R. M. Grupe. No. 1,346,746; July 13; v. 276; p. 342.
Lever lock, Gear-shift-. C. L. Johnson. No. 1,350,810; Aug. 24; v. 277; p. 693.
Lever lock, Spark and throttle. J. H. Price. No. 1,352,693; Sept. 14; v. 278; p. 225.
Lever-locking device. Y. Miyasaki. No. 1,345,618; July 6; v. 276; p. 57.
Lever, Scale-. C. E. Bird. No. 1,337,635; Apr. 20; v. 273; p. 500.
Lever valve-lock. H. C. Boggs. No. 1,363,225; Dec. 28; v. 281; p. 582.
Lever, Watch-setting. W. W. Jordan. No. 1,327,891; Jan. 6; v. 270; p. 95.
Levers, Lock for shift-. R. J. Manley. No. 1,338,945; May 4; v. 274; p. 54.
Levers, Mechanism for automatically operating. J. H. Pillings. No. 1,357,514; Nov. 2; v. 280; p. 59.
Levers, Mounting for shuttle-operating. H. E. Smallbone. No. 1,348,965; Aug. 10; v. 277; p. 213.
Library and dining table, Combined. A. H. Stone. No. 1,334,415; Mar. 23; v. 272; p. 582.
License-holder, Motor-vehicle. C. H. Fawcett. No. 1,328,915; Jan. 27; v. 270; p. 510.
License-holding device. C. H. Fawcett. No. 1,330,068; Feb. 10; v. 271; p. 167.
License-indicator. J. M. McCarthy. No. 1,336,706; Apr. 13; v. 273; p. 250.
License-plate attachment. F. G. Hough. No. 1,360,405; Nov. 30; v. 280; p. 846.
License-plate holder. G. W. Emmert. No. 1,340,387; May 18; v. 274; p. 459.
License-tag bracket. C. H. Pease. No. 1,329,206; Jan. 27; v. 270; p. 564.
License-tag holder. T. J. Chappell. No. 1,338,422; Apr. 27; v. 273; p. 719.
Lid and strainer, Pouring-spout. O. E. Jenson. No. 1,344,039; June 22; v. 275; p. 658.
Lid-fastener and card-holder, Combination. G. H. Proffitt. No. 1,341,588; May 25; v. 274; p. 760.
Lid-holder. J. Huttner. No. 1,349,155; Aug. 10; v. 277; p. 251.
Lid-lifter for receptacles. E. Snickers. No. 1,341,390; May 25; v. 274; p. 722.
Lid-rack. H. J. Stevens. No. 1,359,125; Nov. 16; v. 280; p. 480.
Lid-supporter. R. T. Bell and L. Mandel. No. 1,359,953; Nov. 23; v. 280; p. 689.
Lid-supporter. N. A. Dovas. No. 1,342,325; June 1; v. 275; p. 139.
Lid-supporting device. S. W. Parsons. No. 1,337,791; Apr. 20; v. 273; p. 530.
Lid-supporting device. A. D. Waters. No. 1,352,711; Sept. 14; v. 278; p. 229.
Life-preserver. W. M. Deneau. No. 1,339,617; May 11; v. 274; p. 256.
Life-preserver. W. J. May. No. 1,343,928; June 22; v. 275; p. 636.
Life-preserver. A. Moesovitx. No. 1,359,267; Nov. 16; v. 280; p. 507.

Digitized by Google

Life-preserver, Airman's. S. D. Mott. No. 1,337,788; Apr. 20; v. 273; p. 530.
Life-preserver, Jacket-type. C. H. Young. No. 1,336,400; Apr. 6; v. 273; p. 131.
Life-preserving device. G. M. Wheeler. No. 1,361,210; Dec. 7; v. 281; p. 45.
Life-protector. P. Billy. No. 1,350,136; Aug. 17; v. 277; p. 515.
Life-saving apparatus. H. Jordan. No. 1,360,755; Nov. 30; v. 280; p. 915.
Life-saving apparatus, Automatic. J. P. Muller. No. 1,329,990; Feb. 3; v. 271; p. 121.
Life-saving appliance. F. P. Ingram. No. 1,341,908; June 1; v. 275; p. 58.
Life-saving device. I. A. Hebert. No. 1,347,372; July 20; v. 276; p. 524.
Life-saving device. F. Lavryk. No. 1,341,752; June 1; v. 275; p. 28.
Life-saving device. S. A. Pascales. No. 1,363,166; Dec. 21; v. 281; p. 530.
Life-saving device. J. Sebeto. No. 1,339,227; May 4; v. 274; p. 107.
Life-saving device. P. E. Thokar. No. 1,330,410; Feb. 10; v. 271; p. 230.
Life-saving suit. A. Chury. No. 1,363,086; Dec. 21; v. 281; p. 515.
Lifeboat. G. Dorffel. No. 1,351,627; Aug. 31; v. 277; p. 916.
Lifeboat. L. Sesty. No. 1,352,318; Sept. 7; v. 278; p. 116.
Lifeboat and diving apparatus. T. D. Matheny. No. 1,331,819; Feb. 24; v. 271; p. 584.
Lifeboat-securing device. E. P. Manly. No. 1,361,165; Dec. 7; v. 281; p. 36.
Lifeboats, Lashing device for. P. W. Sieurin. No. 1,333,739; Mar. 16; v. 272; p. 409.
Lifeboats, Launching apparatus for. M. R. Garcia. No. 1,363,036; Dec. 21; v. 281; p. 505.
Lifter: *See*—
Can-lifter.
Jar-lifter.
Plate-lifter.
Rock-arm lifter.
Stove-lid lifter.
Valve-lifter.
Valve-spring lifter.
Wagon-body lifter.
Lifter. C. Nelson. No. 1,353,782; Sept. 21; v. 278; p. 500.
Lifter. C. Nelson. No. 1,360,140; Nov. 23; v. 280; p. 726.
Lifting apparatus. J. Durofsky. No. 1,345,992; July 6; v. 276; p. 131.
Lifting-clamp. C. D. Meals. No. 1,351,530; Aug. 31; v. 277; p. 897.
Lifting device. G. M. French and W. B. Pavey. No. 1,349,450; Aug. 10; v. 277; p. 309.
Lifting device or grapple. M. Clogston. No. 1,344,174; June 22; v. 275; p. 683.
Lifting-dog. M. F. Healy. No. 1,352,665; Sept. 14; v. 278; p. 220.
Lifting instrument. C. Yackel. No. 1,336,461; Apr. 13; v. 273; p. 202.
Lifting-jack. L. J. Berkeley. No. 1,333,239; Mar. 9; v. 272; p. 253.
Lifting-jack. P. L. Billingsley. No. 1,356,033; Oct. 19; v. 279; p. 404.
Lifting-jack. G. C. Condito. No. 1,345,135; June 29; v. 276; p. 935.
Lifting-jack. L. C. Crippen and C. H. Schlinkmeier. No. 1,330,306; Feb. 10; v. 271; p. 211.
Lifting-jack. G. Derksen. No. 1,356,699; Oct. 26; v. 279; p. 582.
Lifting-jack. L. Dussart. No. 1,333,583; Mar. 9; v. 272; p. 318.
Lifting-jack. W. C. Engel. No. 1,341,305; May 25; v. 274; p. 705.
Lifting-jack. W. B. Fay. No. 1,333,966; Mar. 16; v. 272; p. 451.
Lifting-jack. J. Flanagan. No. 1,329,116; Jan. 27; v. 270; p. 547.
Lifting-jack. O. E. Flohr. No. 1,348,195; Aug. 10; v. 277; p. 259.
Lifting-jack. A. W. Gordon. No. 1,348,867; Aug. 10; v. 277; p. 194.
Lifting-jack. F. L. Gormley. No. 1,334,488; Mar. 23; v. 272; p. 595.
Lifting-jack. L. J. Hall. No. 1,339,926; May 11; v. 274; p. 315.
Lifting-jack. J. Heinen. No. 1,345,178; June 29; v. 275; p. 944.
Lifting-jack. L. E. Johnson. No. 1,336,906; Apr. 13; v. 273; p. 288.
Lifting-jack. C. F. L. King. No. 1,360,762; Nov. 30; v. 280; p. 916.
Lifting-jack. J. C. Kopf. (Reissue.) No. 14,991; Nov. 23; v. 280; p. 749.
Lifting-jack. G. O. Leopold. No. 1,343,732; June 15; v. 275; p. 532.
Lifting-jack. W. E. Lombard. No. 1,352,207; Sept. 7; v. 278; p. 94.
Lifting-jack. F. Miller. No. 1,342,057; June 1; v. 275; p. 87.
Lifting-jack. J. J. Mizer and V. Jakob. No. 1,345,797; July 6; v. 276; p. 92.
Lifting-jack. D. C. Mulvihill. No. 1,343,274; June 15; v. 275; p. 442.
Lifting-jack. D. C. Mulvihill. No. 1,343,275; June 15; v. 275; p. 442.
Lifting-jack. A. Neal. No. 1,355,842; Oct. 19; v. 279; p. 366.
Lifting-jack. A. Neal. No. 1,355,843; Oct. 19; v. 279; p. 367.
Lifting-jack. G. H. Page. No. 1,327,685; Jan. 13; v. 270; p. 212.
Lifting-jack. F. L. Rapson. No. 1,338,589; Apr. 27; v. 273; p. 749.
Lifting-jack. F. L. Rapson. No. 1,343,845; June 15; v. 275; p. 555.
Lifting-jack. C. W. Ripsch, J. C. Dawley, and C. D. Derby. No. 1,344,117; June 22; v. 275; p. 672.
Lifting-jack. W. B. Templeton. No. 1,328,306; Jan. 20; v. 270; p. 365.
Lifting-jack. W. T. Walker. No. 1,333,645; Mar. 16; v. 272; p. 391.
Lifting-jack. B. F. Walser. No. 1,332,584; Mar. 2; v. 272; p. 78.
Lifting-jack. P. Zaugg. No. 1,328,609; Jan. 20; v. 270; p. 423.
Lifting-jack for use on motor road and other vehicles. F. L. Rapson. No. 1,350,036; Aug. 17; v. 277; p. 496.
Lifting-jack, Self-lowering. C. W. Ripsch and J. C. Dawley. No. 1,349,101; Aug. 10; v. 277; p. 240.
Lifting mechanism, Adjustable. E. E. Emory. No. 1,352,884; Sept. 14; v. 278; p. 264.
Lifting or sling hook. W. J. Oliver. No. 1,344,187; June 22; v. 275; p. 686.
Light: *See*—
Automobile signal-light.
Automobile spot-light.
Border-light.
Color-matching light.
Dirigible light.
Electric light.
Electric side light.
Fisherman's submersible light.
Flash-light.
Fog-light.
Headlight.
Hydrocarbon-light.
Pistol-light.
Port-light.
Portable light.
Reading-light.
Searchlight.
Signal-light.
Signal and guide light.
Skylight.
Spot-light.
Time-controlled light.
Vault and sidewalk light.
Vehicle curtain-light.
Water-glass light.
Light. G. White. No. 1,359,136; Nov. 16; v. 280; p. 482.
Light and manually-controlled signal, Combined emergency-. M. Gasl. No. 1,334,995; Mar. 30; v. 272; p. 752.
Light-concentrator. P. Nadelson. No. 1,331,661; Feb. 24; v. 271; p. 554.
Light container, Extensible-. C. T. Hunt. No. 1,363,417; Dec. 28; v. 281; p. 618.
Light-controlling device. W. J. Harvey. No. 1,335,832; Apr. 6; v. 273; p. 24.
Light-deflector. C. S. Brown and R. R. Shaffer. No. 1,348,927; Aug. 10; v. 277; p. 206.
Light dimmer, Automobile-. J. Grieshamer. No. 1,353,231; Sept. 21; v. 278; p. 391.
Light-distributer. V. Walsh. No. 1,349,241; Aug. 10; v. 277; p. 268.
Light-distributing means. W. H. Fulton. No. 1,335,889; Apr. 6; v. 273; p. 35.
Light fixture, Electric-. F. E. d'Humy. No. 1,351,375; Aug. 31; v. 277; p. 867.
Light-holder. A. J. Barrett. No. 1,349,312; Aug. 10; v. 277; p. 282.
Light-meter. C. C. Howenstine. No. 1,361,999; Dec. 14; v. 281; p. 251.
Light-projecting apparatus. G. T. Thompson. No. 1,339,304; May 4; v. 274; p. 120.
Light-projector. W. T. Conn. No. 1,361,018; Dec. 7; v. 281; p. 8.
Light-projectors, Training control for. C. E. Akeley. No. 1,341,004; May 25; v. 274; p. 647.
Light-shade. C. D. Kline. No. 1,329,187; Jan. 27; v. 270; p. 561.
Light-signal. E. J. Blake. (Reissue.) No. 14,940; Aug. 31; v. 277; p. 935.
Light-signal. C. S. Snavely. No. 1,329,639; Feb. 3; v. 271; p. 55.
Light-signal. H. B. Taylor. No. 1,333,046; Mar. 9; v. 272; p. 218.
Light-standards, Independently-detachable undershade for. M. Y. Sugimura. No. 1,349,478; Aug. 10; v. 277; p. 315.
Light-support. I. F. Hall. No. 1,330,528; Feb. 10; v. 271; p. 253.
Light-treatment apparatus. E. C. Feyrer. No. 1,[illegible]; Oct. 5; v. 279; p. 74.
Lights for projectors, Operating flaming-arc. P. R. Bassett. No. 1,328,311; Jan. 20; v. 270; p. 366.
Lighter, Automatic. T. C. Geslani. No. 1,353,334; Sept. 21; v. 278; p. 411.
Lighter, Friction-. H. Thorens. No. 1,359,003; Nov. 16; v. 280; p. 458.
Lighting apparatus. E. A. Hawthorne. No. 1,356,145; Oct. 19; v. 279; p. 426.
Lighting apparatus, Artificial-. H. M. Ewing. No. 1,332,619; Mar. 2; v. 272; p. 85.
Lighting device. E. D. Tillson. No. 1,360,325; Nov. 30; v. 280; p. 929.
Lighting device, Time-controlled. J. M. Weisenreider. No. 1,353,441; Sept. 21; v. 278; p. 432.

Digitized by Google

Lighting-fixture. P. A. Bredsvold. No. 1,352,111; Sept. 7; v. 278; p. 77.
Lighting-fixture. J. R. and A. M. Cravath. No. 1,334,789; Mar. 23; v. 272; p. 642.
Lighting-fixture. H. E. Gleason. No. 1,340,443; May 18; v. 274; p. 470.
Lighting-fixture. F. I. Green. No. 1,357,684; Nov. 2; v. 280; p. 82.
Lighting-fixture. B. J. and O. E. Grigsby. No. 1,330,585; Feb. 10; v. 271; p. 263.
Lighting-fixture. H. A. Harris. No. 1,332,214; Mar. 2; v. 272; p. 7.
Lighting-fixture. W. E. Jerome. No. 1,350,809; Aug. 24; v. 277; p. 693.
Lighting-fixture. B. Jones. No. 1,357,568; Nov. 2; v. 280; p. 69.
Lighting-fixture. A. Lazerson. No. 1,351,255; Aug. 31; v. 277; p. 841.
Lighting-fixture. M. M. Marks. No. 1,334,622; Mar. 23; v. 272; p. 620.
Lighting-fixture. M. M. Marks. No. 1,334,623; Mar. 23; v. 272; p. 620.
Lighting-fixture. G. P. Robinson. No. 1,363,919; Dec. 28; v. 281; p. 716.
Lighting-fixture. J. T. Thompson. No. 1,340,261; May 18; v. 274; p. 435.
Lighting-fixture. A. E. Wiedenhoeft. No. 1,352,857; Sept. 14; v. 278; p. 259.
Lighting-fixture. A. A. Wohlauer. No. 1,329,280; Jan. 27; v. 270; p. 577.
Lighting-fixture. H. R. Yardley. No. 1,358,131; Nov. 9; v. 280; p. 240.
Lighting-fixture. F. Yokel. No. 1,349,485; Aug. 10; v. 277; p. 316.
Lighting-fixture-bowl hook. L. A. (Hufschmidt. No. 1,327,598; Jan. 6; v. 270; p. 134.
Lighting-fixture frame. O. H. Mohr. No. 1,330,029; Feb. 3; v. 271; p. 128.
Lighting-fixture globe. F. W. Mathieu. No. 1,354,262; Sept. 28; v. 278; p. 642.
Lighting, Indirect system of. L. Gallaher. No. 1,363,583; Dec. 28; v. 281; p. 651.
Lighting means. E. I. Dodds. No. 1,352,282; Sept. 7; v. 278; p. 104.
Lighting system. E. I. Dodds. No. 1,350,581; Nov. 23; v. 280; p. 615.
Lighting system, Duplex. T. Bogi. No. 1,358,278; Nov. 9; v. 280; p. 268.
Lightning-arrester. C. T. Allcutt. No. 1,361,801; Dec. 14; v. 281; p. 211.
Lightning-arrester. A. W. Copley. No. 1,361,967; Dec. 14; v. 281; p. 245.
Lightning-arrester. G. P. A. Damschen. No. 1,338,213; Apr. 27; v. 273; p. 680.
Lightning-arrester. G. H. Dryden. No. 1,359,971; Nov. 23; v. 280; p. 693.
Lightning-arrester. C. W. Howe. No. 1,342,111; June 1; v. 275; p. 98.
Lightning-arrester. E. Jacobus. No. 1,340,657; May 18; v. 274; p. 510.
Lightning-arrester. T. L. Keller. No. 1,363,124; Dec. 21; v. 281; p. 522.
Lightning-arrester and mounting. E. H. Jacobs. No. 1,356,720; Oct. 26; v. 729; p. 586.
Lightning, Protective means against. F. A. Ford. No. 1,330,858; Feb. 17; v. 271; p. 382.
Lignites, Treating. W. Runge. No. 1,334,170; Mar. 16; v. 272; p. 489.
Limb and foot brace. A. J. Gromes. No. 1,336,695; Apr. 13; v. 273; p. 248.
Limb, Artificial. C. D. Blatchford. No. 1,334,884; Mar. 23; v. 272; p. 661.
Limb, Artificial. F. J. S. Bulford. No. 1,345,661; July 6; v. 276; p. 65.
Limb, Artificial. E. G. Haden. No. 1,347,947; July 27; v. 276; p. 695.
Limb, Artificial. G. S. Koglund. No. 1,350,743; Aug. 24; v. 277; p. 681.
Limb, Artificial. L. C. Lawrence. (Reissue.) No. 15,006; Dec. 14; v. 281; p. 366.
Limb, Artificial. F. J. Lowry. No. 1,351,055; Sept. 7; v. 278; p. 49.
Limb, Artificial. H. J. Morris. No. 1,338,243; Apr. 27; v. 273; p. 685.
Limb, Artificial. H. J. Morris. No. 1,357,074; Oct. 26; v. 279; p. 655.
Limb, Artificial. G. Nelson. No. 1,340,239; May 18; v. 274; p. 431.
Limb, Artificial. O. E. Worman. No. 1,343,297; June 15; v. 275; p. 446.
Limb, Artificial. O. E. Worman. No. 1,343,298; June 15; v. 275; p. 446.
Limb joint, Artificial. G. R. Bott. No. 1,336,812; Apr. 13; v. 273; p. 270.
Limb lock, Artificial-. L. E. Hullinger. No. 1,346,092; July 6; v. 276; p. 151.
Limb-support. W. V. Thompson. No. 1,355,579; Oct. 12; v. 279; p. 275.
Limbs, Fitting artificial. J. F. Rowley. No. 1,351,789; Sept. 7; v. 278; p. 14.
Limbs, Machine for treating. J. P. Gardner. No. 1,354,248; Sept. 28; v. 278; p. 639.
Lime and sulfur product and making same, Dry. O. F. Hedenburg. No. 1,336,957; Apr. 13; v. 273; p. 298.
Lime-hydrator. F. W. Weber. No. 1,350,534; Aug. 24; v. 277; p. 640.
Lime, Treating. A. E. Horn. No. 1,348,494; Aug. 3; v. 277; p. 71.
Line-clamp. A. T. Lueckenbach. No. 1,363,002; Dec. 21; v. 281; p. 498.
Line-clamp, Automatic. R. J. Haight and R. C. Whiteway. No. 1,360,938; Nov. 30; v. 280; p. 950.
Line-holder. E. L. Knapp. No. 1,331,203; Feb. 17; v. 271; p. 448.
Line-holder, Builder's. C. H. Gross. No. 1,344,224; June 22; v. 275; p. 693.
Line-lock. S. N. Lind. No. 1,340,851; May 18; v. 274; p. 546.
Line-reel and marker or chalker, Combined. J. H. Kerr. No. 1,338,935; May 4; v. 274; p. 53.
Line-spacing mechanism. J. A. Hagerstrom. No. 1,359,501; Nov. 23; v. 280; p. 599.
Line-supporting post, Adjustable. G. Broshears. No. 1,350,208; Aug. 17; v. 277; p. 530.
Lineman's climber. J. M. Frisble and E. C. Tilton. No. 1,335,945; Apr. 6; v. 273; p. 45.
Lining and sleeves, Detachable. J. Albert. No. 1,354,868; Oct. 5; v. 279; p. 84.
Lining, Detachable. J. Albert. No. 1,363,209; Dec. 28; v. 281; p. 579.
Lining, Interchangeable. W. S. Nead. No. 1,358,387; Nov. 9; v. 280; p. 291.
Linen, Machine for marking. A. Hammer and F. Egersdörfer. No. 1,337,650; Apr. 20; v. 273; p. 503.
Lingerie-clasp. A. Kestenman. No. 1,327,761; Jan. 13; v. 270; p. 226.
Link and strut, Fusible. L. M. Lewis. No. 1,339,829; May 11; v. 274; p. 297.
Link, Cuff-. R. A. Gill. No. 1,333,018; Mar. 9; v. 272; p. 212.
Link, Detachable connecting-. F. J. Spaulding. No. 1,346,611; July 13; v. 276; p. 315.
Link, Emergency repair-. H. A. Lentz. No. 1,332,559; Mar. 2; v. 272; p. 74.
Link, Fusible. M. K. Hopkins. No. 1,356,919; Oct. 26; v. 279; p. 625.
Link, Fusible. H. M. Nacey. No. 1,362,812; Dec. 21; v. 281; p. 462.
Link, Fusible. O. Roberts. No. 1,357,347; Nov. 2; v. 280; p. 28.
Link, Open. A. D. Kelly. No. 1,335,377; Mar. 30; v. 272; p. 823.
Linoleum. J. J. Tomec. No. 1,345,810; July 6; v. 276; p. 95.
Linoleum and product thereof, Inlaying. C. A. O'Brien. No. 1,351,679; Aug. 31; v. 277; p. 926.
Linoleum and product thereof, Producing. G. W. Priest. No. 1,334,049; Mar. 16; v. 272; p. 467.
Linoleum and product thereof, Producing. G. W. Priest. No. 1,334,050; Mar. 16; v. 272; p. 467.
Linoleum, Manufacture of floor-coverings as a substitute for. J. H. P. Ligterink. No. 1,348,571; Aug. 3; v. 277; p. 86.
Linoleum or the like and apparatus therefor, Manufacture of tiles of. A. A. Godfrey. No. 1,361,456; Dec. 7; v. 281; p. 97.
Linotype-form and means for producing same, Ruled. W. C. Hollister. No. 1,349,720; Aug. 17; v. 277; p. 436.
Linotype-machine guide. C. L. Mohr. No. 1,358,972; Nov. 16; v. 280; p. 452.
Linotype-machines, Crucible-mouthpiece for. W. E. Borst and C. C. Gilleo. No. 1,327,697; Jan. 13; v. 270; p. 214.
Linotype-machines, Elevator-operating mechanism for. G. S. Loring. No. 1,331,655; Feb. 24; v. 271; p. 553.
Linotype-mold. C. B. Hill. No. 1,343,171; June 8; v. 275; p. 359.
Linotype-mold. E. L. Holmes. No. 1,337,358; Apr. 20; v. 273; p. 448.
Linotype-slugs. Device for trimming. J. Dusza. No. 1,361,030; Dec. 7; v. 281; p. 10.
Lint-collecting system. J. Davidson. No. 1,350,439; Aug. 24; v. 277; p. 621.
Linting-machine. G. N. Woodruff. No. 1,349,179; Aug. 10; v. 277; p. 256.
Lip-guard. J. Dieguez y Lopez and F. Alcañiz y Bascompte. No. 1,344,179; June 22; v. 275; p. 684.
Liquid and gas contact apparatus. H. J. Zimmermann. No. 1,350,202; Aug. 17; v. 277; p. 528.
Liquid-atomizer. D. J. Irish. No. 1,332,667; Mar. 2; v. 272; p. 94.
Liquid, Automatic mechanism for raising. C. T. Alexander and D. W. Baker. No. 1,362,552; Dec. 14; v. 281; p. 359.
Liquid coating composition. A. N. McKay and W. L. Willis. No. 1,356,380; Oct. 19; v. 279; p. 472.
Liquid coatings to elongated bodies, Device for applying. H. L. Thompson. No. 1,346,726; July 13; v. 276; p. 338.
Liquid-containers, Closure device for. J. Bliss. No. 1,356,502; Oct. 19; v. 279; p. 496.
Liquid-containers, Means for establishing auxiliary convection in. O. E. Huebner. No. 1,350,728; Aug. 24; v. 277; p. 678.

Digitized by Google

Liquid-containing bodies, Arrangement for drying solid. J. W. A. Elling. No. 1,347,501; July 27; v. 276; p. 606.
Liquid-cooler. V. Ockfen. No. 1,355,352; Oct. 12; v. 279; p. 252.
Liquid cooling and dispensing apparatus. H., C., Jr., and M. Doering. No. 1,337,206; Apr. 20; v. 273; p. 419.
Liquid, Device for transferring and dispensing. W. G. Pilkington. No. 1,353,069; Sept. 14; v. 278; p. 300.
Liquid dispenser. G. A. and A. L. Bobrick. No. 1,362,077; Dec. 14; v. 281; p. 266.
Liquid-dispenser. W. H. Johnston and H. J. Williams. No. 1,360,298; Nov. 30; v. 280; p. 826.
Liquid-dispenser. W. D. McClain. No. 1,334,769; Mar. 23; v. 272; p. 648.
Liquid-dispenser. A. K. Wood. No. 1,341,095; May 25; v. 274; p. 665.
Liquid-dispensers, Drain-pipe for. C. A. Tripp. No. 1,352,640; Sept. 14; v. 278; p. 215.
Liquid-dispensing apparatus. J. B. Davis. No. 1,341,263; May 25; v. 274; p. 697.
Liquid-dispensing apparatus. J. B. Davis. No. 1,345,837; July 6; v. 276; p. 100.
Liquid-dispensing apparatus. J. A. Price. No. 1,335,700; Mar. 30; v. 272; p. 883.
Liquid-dispensing appliance. I. A. Weaver. No. 1,332,276; Mar. 2; v. 272; p. 19.
Liquid-dispensing device. J. W. Kaiser. No. 1,347,635; July 27; v. 276; p. 633.
Liquid-dispensing device. W. F. Lerch. No. 1,343,085; June 8; v. 275; p. 342.
Liquid-dispensing devices, Cooling means for. C. A. Tripp. No. 1,336,172; Apr. 6; v. 273; p. 89.
Liquid-dispensing machine. C. O. McCasland. No. 1,347,108; July 20; v. 276; p. 472.
Liquid-dispensing machine. C. N. Ogden. No. 1,356,006; Oct. 19; v. 279; p. 398.
Liquid-distributing apparatus. G. Moore. No. 1,342,859; June 8; v. 275; p. 298.
Liquid-distributing system. W. A. Timm. No. 1,341,447; May 25; v. 274; p. 733.
Liquid electric resistance. J. H. Woolliscroft. No. 1,360,069; Nov. 23; v. 280; p. 712.
Liquid-elevating apparatus. F. V. Willis. No. 1,345,725; July 6; v. 276; p. 78.
Liquid-elevating device. T. W. Murphy. No. 1,354,330; Sept. 28; v. 278; p. 655.
Liquid-evaporator. R. T. White. No. 1,338,848; May 4; v. 274; p. 37.
Liquid-feeding device. E. A. Rockwell. No. 1,360,028; Nov. 23; v. 280; p. 704.
Liquid-feeding device. A. Stuber. No. 1,357,361; Nov. 2; v. 280; p. 31.
Liquid-fertilizer distributer. P. Christiansen. No. 1,347,892; July 27; v. 276; p. 685.
Liquid from pulpous material, Machine for extracting. W. L. Kinney and W. E. Cagle. No. 1,330,711; Feb. 10; v. 271; p. 286.
Liquid fuel. J. Black. No. 1,360,872; Nov. 30; v. 280; p. 938.
Liquid-fuel burner. E. R. Bittner. No. 1,342,526; June 8; v. 275; p. 231.
Liquid-fuel burner. W. Clarke. No. 1,353,112; Sept. 14; v. 278; p. 308.
Liquid-fuel burner. J. W. Cowell. No. 1,342,088; June 8; v. 275; p. 323.
Liquid-fuel burner. J. D. and G. C. Goodwin. No. 1,351,848; Sept. 7; v. 278; p. 27.
Liquid-fuel burner. E. E. Hilliker. No. 1,347,858; July 27; v. 276; p. 678.
Liquid-fuel burner. N. W. Kelder. No. 1,362,010; Dec. 14; v. 281; p. 253.
Liquid-fuel burner. J. C. Lockhart. No. 1,344,414; June 22; v. 275; p. 640.
Liquid-fuel burner. W. A. Tacker. No. 1,343,945; June 22; v. 275; p. 731.
Liquid-fuel burner. E. H. Tate. No. 1,340,803; May 18; v. 274; p. 537.
Liquid-fuel burners, Preheating device for. H. M. Smith. No. 1,362,829; Dec. 21; v. 281; p. 465.
Liquid-fuel-burning furnace. R. G. Breeding. No. 1,341,294; May 25; v. 274; p. 703.
Liquid-fuel carburation. C. E. Lucke and J. Good. No. 1,345,378; July 6; v. 276; p. 10.
Liquid fuel, Forming. A. Hayes. No. 1,363,870; Dec. 28; v. 281; p. 707.
Liquid-fuel heater. E. H. Pryce. No. 1,359,017; Nov. 23; v. 280; p. 682.
Liquid-fuel-ignition mechanism. A. Doble. No. 1,349,877; Aug. 17; v. 277; p. 465.
Liquid-fuel tank. H. D. Powers. No. 1,361,614; Dec. 7; v. 281; p. 128.
Liquid-fuel tanks, Fuel-reserve device for. A. P. Crell. No. 1,359,336; Nov. 16; v. 280; p. 522.
Liquid-fuel-vending machine. L. Latham. No. 1,338,229; Apr. 27; v. 273; p. 633.
Liquid fuels, Vaporizer for. H. Adicks. No. 1,345,822; July 6; v. 275; p. 97.
Liquid-gage. A. W. Jones and R. Kaiser. No. 1,363,982; Dec. 28; v. 281; p. 728.
Liquid-gage. W. S. Townsend. No. 1,353,193; Sept. 21; v. 278; p. 384.
Liquid gaging and cut-off means, Float-controlled. G. J. Waldrep. No. 1,344,663; June 29; v. 275; p. 845.
Liquid-heater. W. I. Thompson. No. 1,355,867; Oct. 19; v. 279; p. 372.
Liquid-heating furnace. F. E. Wellman. No. 1,335,774; Apr. 6; v. 273; p. 14.
Liquid in evaporating installations, Apparatus for regulating and maintaining a desired level in. E. A. Barbet. No. 1,349,114; Aug. 10; v. 27; p. 242.
Liquid-level controller, Automatic. F. H. Landrum. No. 1,354,311; Sept. 28; v. 278; p. 651.
Liquid-measure. A. King. No. 1,360,761; Nov. 30; v. 280; p. 916.
Liquid-meter. P. J. Roach and D. Carter. No. 1,340,293; May 18; v. 274; p. 441.
Liquid mixing and delivery apparatus. H. S. Cornish. No. 1,334,523; Mar. 23; v. 272; p. 601.
Liquid mixing and delivery apparatus. H. S. Cornish. No. 1,347,576; July 27; v. 276; p. 621.
Liquid of high acidity from niter cake, Obtaining a. W. C. Holmes. No. 1,354,649; Oct. 5; v. 279; p. 41.
Liquid-raising apparatus. J. C. Grant. No. 1,358,632; Nov. 9; v. 280; p. 340.
Liquid-receptacle. H. S. Barrows. No. 1,343,299; June 15; v. 275; p. 447.
Liquid, Rifle attachment for throwing. C. A. Masaites. No. 1,333,268; Mar. 9; v. 272; p. 258.
Liquid, semiliquid, or viscid materials, Machine for mixing. A. Sonsthagen. No. 1,363,368; Dec. 28; v. 281; p. 609.
Liquid storage and dispensing apparatus. J. J. Catron. No. 1,352,788; Sept. 14; v. 278; p. 245.
Liquid-storage apparatus. E. Fahl. No. 1,345,154; June 29; v. 275; p. 939.
Liquid substances into very small particles, Process and apparatus for atomizing. F. Diebold. No. 1,346,811; July 20; v. 276; p. 414.
Liquid-supply-control apparatus. G. Moore. No. 1,338,995; May 4; v. 274; p. 64.
Liquid-tempering device. A. J. Davis. No. 1,332,811; Mar. 2; v. 272; p. 122.
Liquid-transferring apparatus. W. Kirkwood. No. 1,334,542; Mar. 23; v. 272; p. 605.
Liquid-treating apparatus. L. S. Pfouts. No. 1,352,215; Sept. 7; v. 278; p. 96.
Liquid, vaporous, or gaseous product, Sampling a. R. A. Carter, Jr. No. 1,364,035; Dec. 28; v. 281; p. 738.
Liquid-vending apparatus. J. M. Miller. No. 1,339,522; May 11; v. 274; p. 238.
Liquid wave-transmission lines, Means for feeding. G. Constantinesco. No. 1,334,285; Mar. 23; v. 272; p. 557.
Liquids and apparatus used in connection therewith, Vaporizing. C. D. McClintock. No. 1,341,476; May 25; v. 274; p. 739.
Liquids and solids, Method of and apparatus for separating. J. Avrutik. No. 1,360,708; Nov. 30; v. 280; p. 906.
Liquids, Apparatus and process for the continuous distillation of. F. I. Gibson. No. 1,340,653; May 18; v. 274; p. 510.
Liquids, Apparatus for dispensing. J. Fritsche. No. 1,356,816; Oct. 26; v. 279; p. 605.
Liquids, Apparatus for drying. O. S. Sleeper. No. 1,331,389; Feb. 17; v. 271; p. 482.
Liquids, Apparatus for electrically treating. H. B. Rudd. No. 1,360,447; Nov. 30; v. 280; p. 854.
Liquids, Apparatus for evaporating or concentrating. E. Shaw. No. 1,355,702; Oct. 12; v. 279; p. 299.
Liquids, Apparatus for gasifying. E. H. Cuyler and M. B. Patterson. No. 1,336,822; Apr. 13; v. 273; p. 272.
Liquids, Apparatus for handling containers of. E. W. Beardsley. No. 1,354,716; Oct. 5; v. 279; p. 54.
Liquids, Apparatus for lifting and pouring. J. R. Coe. No. 1,362,560; Dec. 14; v. 281; p. 361.
Liquids, Apparatus for nebulizing. F. Rieber. No. 1,330,218; Feb. 10; v. 271; p. 195.
Liquids, Apparatus for separating. J. Bannon and F. W. Thorold. No. 1,355,934; Oct. 19; v. 279; p. 384.
Liquids, Apparatus for separating solids from. H. N. Herrick. No. 1,349,881; Aug. 17; v. 277; p. 466.
Liquids, Apparatus for sterilizing. H. B. Rudd. No. 1,333,633; Mar. 16; v. 272; p. 388.
Liquids, Apparatus for straining or filtering. P. J. Darlington. No. 1,337,756; Apr. 20; v. 273; p. 524.
Liquids, Apparatus for the recovery of the contents of. C. P. Grimwood. No. 1,348,409; Aug. 3; v. 277; p. 55.
Liquids, Apparatus for treating. W. Koedding and W. J Lemp. No. 1,351,522; Aug. 31; v. 277; p. 895.
Liquids, Apparatus for treating. W. O. Rew. No. 1,336,655; Apr. 13; v. 273; p. 239.
Liquids at a distance, Apparatus for indicating the level of. P. Gervasoni and A. Zecchini. No. 1,347,944; July 27; v. 276; p. 694.
Liquids, Concentrating. G. T. Walker. No. 1,330,016; Feb. 3; v. 271; p. 125.
Liquids, Container for volatile. F. W. Shute. No. 1,345,965; July 6; v. 276; p. 126.
Liquids, Conveying. C. J. Greenstreet. No. 1,329,967; Feb. 3; v. 271; p. 116.
Liquids, Device for evaporating volatile. W. M. Boehm. No. 1,358,928; Nov. 16; v. 280; p. 444.

Digitized by Google

Liquids, Filtration and/or percolation of. C. Yeoman. No. 1,349,798; Aug. 17; v. 277; p. 450.
Liquids, fluids, and oils, Conversion of. J. H. Adams. No. 1,327,263; Jan. 6; v. 270; p. 72.
Liquids from gases, Obtaining volatile. L. F. Bayer. No. 1,351,151; Aug. 31; v. 277; p. 820.
Liquids from solids, Process and apparatus for separating. H. C. Behr. No. 1,336,722; Apr. 13; v. 273; p. 253.
Liquids, Instrument for indicating or recording the flow of. J. J. Lassen and J. L. Gilbert. No. 1,355,764; Oct. 12; v. 279; p. 311.
Liquids, Means for cooling. J. Hutchinson. No. 1,327,560; Jan. 6; v. 270; p. 127.
Liquids, Means for supplying. C. Copetta. No. 1,335,093; Mar. 30; v. 272; p. 770.
Liquids, Method of and apparatus for supplying heated. W. R. Hager. No. 1,345,924; July 6; v. 276; p. 118.
Liquids or gases, Apparatus for extracting. J. Sonneveld. No. 1,351,139; Aug. 31; v. 277; p. 818.
Liquids, Process and apparatus for desiccating. R. F Barker. No. 1,362,590; Dec. 21; v. 281; p. 417.
Liquids, Producing foam in. E. Wirth-Frey. No. 1,351,089; Aug. 31; v. 277; p. 809.
Liquids separated in centrifugal separators, Means for controlling the proportion of. A. J. E. Munters. No. 1,331,779; Feb. 24; v. 271; p. 576.
Liquids, Storage and utilization of energy by means of. G. Constantinesco. No. 1,334,281; Mar. 23; v. 272; p. 556.
Liquids, Storage apparatus for. C. L. French. No. 1,327,990; Jan. 13; v. 270; p. 269.
Liquids to effect crystallization therefrom while the liquid is kept in motion, Treatment of. B. Bakke. No. 1,329,158; Jan. 27; v. 270; p. 555.
Liquids, Transmission of impulsive forces through. G. Constantinesco. No. 1,334,282; Mar. 23; v. 272; p. 556.
Liquids, Valve for corrosive. W. H. Smith. No. 1,331,534; Feb. 24; v. 271; p. 530.
Liquids, Vaporizing. C. D. McClintock. No. 1,363,136; Dec. 21; v. 281; p. 524.
Liquids with gases, Apparatus for treating. W. E. Greenawalt. No. 1,347,089; July 20; v. 276; p. 469.
Liquids with gases, Apparatus for treating. W. Sieck, Jr., and S. Drucker. No. 1,335,398; Mar. 30; v. 272; p. 827.
Liquids with gases or other components and the products thereof, including carbonating beverages, Electrical process and apparatus for compounding. J. E. Bloom. No. 1,338,352; Apr. 27; v. 273; p. 706.
Liquors from decomposition, Preserving hydrosulfite. P. MacIntyre. No. 1,333,029; Mar. 9; v. 272; p. 214.
Liquors, Method of and apparatus for treating waste. C. L. Peck. No. 1,357,587; Nov. 2; v. 280; p. 78.
Liquors, Recovering by-products from waste. G. M. Bradford, and J. E. Broadhead. No. 1,342,737; June 8; v. 275; p. 272.
Listening-key. F. A. Stearn. No. 1,356,176; Oct. 19; v. 279; p. 433.
Lister attachment, Riding-. R. L. Rule. No. 1,364,000; Dec. 28; v. 281; p. 731.
Lister, Two-row. S. E. Hofen. No. 1,333,312; Mar. 9; v. 272; p. 267.
Listing and adding machine. G. D. Sundstrand. No. 1,329,028; Jan. 27; v. 270; p. 530.
Listing device. E. E. Yaxley. No. 1,329,568; Feb. 3; v. 271; p. 42.
Listing-machine. O. D. Johantgen. No. 1,336,840; Apr. 13; v. 273; p. 275.
Listing-machine. G. H. Lang. No. 1,352,070; Sept. 7; v. 278; p. 69.
Lithograph ruling-machine. G. H. Phinney and E. A. Pophal. No. 1,331,966; Feb. 24; v. 271; p. 611.
Lithographic cylinders, Machine for graining. C. P. Stirling. No. 1,328,603; Jan. 20; v. 270; p. 422.
Lithographic insert, Producing. J. H. Buscher. No. 1,347,010; July 20; v. 276; p. 453.
Lithographic posters, Making. G. N. Pifer. No. 1,354,001; Sept. 28; v. 278; p. 588.
Lithopone, Manufacture of. J. L. Mitchell. No. 1,356,387; Oct. 19; v. 279; p. 474.
Litter-carriers, Swing-pole track-hinge for. W. S. Beaty. No. 1,340,208; May 18; v. 274; p. 425.
Load handling and measuring device. F. C. Carstarphen. No. 1,341,297; May 25; v. 274; p. 704.
Load-indicator. H. W. Fletcher. No. 1,333,802; Mar. 16; v. 272; p. 420.
Load-indicator. A. Hallner. No. 1,350,498; Aug. 24; v. 277; p. 633.
Load-indicator. F. J. Troll. No. 1,329,685; Feb. 3; v. 271; p. 63.
Load-indicator, Vehicle. F. J. Troll. No. 1,329,684; Feb. 3; v. 271; p. 63.
Load-operating arm. L. P. Hynes. No. 1,333,113; Mar. 9; v. 272; p. 230.
Loads with polyphase distribution-nets or supply-mains, Machinery for balancing unsymmetrical. H. K. Schrage. No. 1,354,074; Sept. 28; v. 278; p. 603.
Loader. N. A. Fuller. No. 1,337,896; Apr. 20; v. 273; p. 550.
Loader and unloader, Combination. C. A. Perfect. No. 1,346,381; July 13; v. 276; p. 269.
Loading and conveying machine for harvesting operations. W. E. White. No. 1,359,942; Nov. 23; v. 280; p. 687.
Loading and unloading apparatus. B. P. Bratt. No. 1,330,163; Feb. 10; v. 271; p. 185.
Loading and unloading apparatus. A. S. Hecker. No. 1,327,824; Jan. 6; v. 270; p. 82.
Loading and unloading device. W. A. Campbell. No. 1,359,790; Nov. 23; v. 280; p. 657.
Loading and unloading device. B. L. Hines. No. 1,337,356; Apr. 20; v. 273; p. 448.
Loading and unloading device. J. Schmiederer. No. 1,342,826; June 8; v. 275; p. 291.
Loading and unloading device. J. A. Wheeler. No. 1,330,667; Feb. 10; v. 271; p. 278.
Loading apparatus. H. P. Cochrane. No. 1,363,088; Dec. 21; v. 281; p. 515.
Loading apparatus. J. T. Fetherston. No. 1,333,165; Mar. 9; v. 272; p. 239.
Loading apparatus. A. J. Fulton and T. H. Evans. No. 1,362,566; Dec. 14; v. 281; p. 362.
Loading apparatus. H. D. Pratt. No. 1,343,746; June 15; v. 275; p. 535.
Loading apparatus. W. Unger. No. 1,351,932; Sept. 7; v. 278; p. 44.
Loading device. C. A. Brawn. No. 1,336,674; Apr. 13; v. 273; p. 243.
Loading device. A. J. Larson. No. 1,327,486; Jan. 6; v. 270; p. 103.
Loading device. H. W. Nagel. No. 1,342,456; June 8; v. 275; p. 218.
Loading device. H. G. Schaefer. No. 1,339,290; May 4; v. 274; p. 118.
Loading-machine. F. Billings. No. 1,349,749; Aug. 17; v. 277; p. 441.
Loading-machine. R. P. Greenleaf. No. 1,361,849; Dec. 14; v. 281; p. 221.
Loading-machine. J. H. Huhn. No. 1,356,985; Oct. 26; v. 279; p. 638.
Loading-machine. H. F. Lessmann. No. 1,337,082; Apr. 13; v. 273; p. 322.
Loading-machine. N. D. Levin. No. 1,351,953; Sept. 7; v. 278; p. 48.
Loading-machine. L. W. Palmer. No. 1,362,347; Dec. 14; v. 281; p. 319.
Loading-machine. R. Rieke. No. 1,359,431; Nov. 16; v. 280; p. 541.
Loading-machine. E. G. Rust. No. 1,355,003; Oct. 5; v. 279; p. 110.
Loading-machine. O. Wilkins and W. E. Moody. No. 1,361,653; Dec. 7; v. 281; p. 135.
Loading machine, Dirt-. J. H. McKenna. No. 1,329,914; Feb. 3; v. 271; p. 106.
Loading-machine, Hand-operated. E. Erickson. No. No. 1,360,279; Nov. 30; v. 280; p. 822.
Loading or unloading apparatus. D. P. Moore. No. 1,330,212; Feb. 10; v. 271; p. 194.
Loaves in pans, Machine for placing. W. D. Rogers and H. E. Merrill. No. 1,357,476; Nov. 2; v. 280; p. 52.
Locating buried objects, Instrument for. W. S. Darley. No. 1,351,556; Aug. 31; v. 277; p. 902.
Lock: *See*—
Auto-lock.
Auto-fuel-supply lock.
Auto-pedal lock.
Auto steering-lock.
Automatic lock.
Automatic dump-lock.
Automobile-lock.
Automobile-body lock.
Automobile-brake lock.
Automobile - brake - lever lock.
Automobile-door lock.
Automobile gasolene - control lock.
Automobile-gear lock.
Automobile-gearing lock.
Automobile multiple-lever lock.
Automobile-pedal lock.
Automobile-wheel lock.
Auxiliary lock.
Bag-lock.
Bed-lock.
Bicycle-lock.
Bicycle-pump lock.
Billiard-cue lock.
Binder-lock.
Bolt-lock.
Bolt and nut lock.
Book-lock.
Bottle-lock.
Bottle safety-lock.
Burglar-lock.
Burglar-proof lock.
Bushing-lock.
Camera - shutter exposure lock.
Car-lock.
Car-check lock.
Car-door lock.
Carbureter-lock.
Casket-lock.
Chain-lock.
Circuit-lock.
Clutch-pedal lock.
Coin-controlled lock.
Combination-lock.
Cylinder-lock.
Detachable-body lock.
Door-lock.
Electric lock.
Electric-lamp lock.
Electric-switch lock.
Elevator-lock.
Elevator-door lock.
Elevator safety-lock.
Engine-lock.
Fire-door lock.
Folding-partition lock.
Fuel-line lock.
Garter-lock.
Gate-valve lock.
Gear-lock.
Gear-shift lock.
Gear-shift-lever lock.
Hinge-lock.
Hood-lock.
Hose-coupling lock.
Ignition-lock.
Indicating-lock.
Joint-lock.
Key-lock.
Key - changing combination-lock.
Keyless lock.
Knob-lock.
Ladder and safety-lock
Lamp-guard lock
Latch-lock.
Lens-mount safety-lock.

Digitized by Google

Lock: *See*—Continued.
Letter-box lock.
Lever-lock.
Lever valve-lock.
Limb-lock.
Meter-lock.
Milk-box lock.
Mortise-lock.
Motor-meter lock.
Motor-vehicle circuit-lock.
Nipple and accessory lock.
Nut-lock.
Nut and bolt lock.
Ore-lock.
Padlock.
Permutation-lock.
Permutation hasp-lock.
Permutator-lock.
Pin-tumbler lock.
Pipe-lock.
Purse-lock.
Radiator-cap lock.
Rail-lock.
Railway-switch lock.
Receptacle-lock.
Recording-lock.
Safe-lock.
Safety-lock.
Sash-lock.
Screw-lock.
Shade-roller lock.
Shaft-lock.
Shifter-block lock.
Shifter-device lock.
Shipper-lock.
Show-case lock.
Slug-lock.
Spark and throttle lever lock.
Stamp-lock.
Standard-lock.
Steering-gear lock.
Steering-mechanism lock.
Steering-post lock.
Steering-wheel lock.
Stovepipe-lock.
Stovepipe anchor and lock.
Switch-lock.
Switch and permutation lock.
Switch-stand lock.
Tank-lock.
Time-lock.
Tire-lock.
Tire-casing lock.
Tire safety-lock.
Transmission-lock.
Traveling-bag lock.
Valve-lock.
Vehicle-lock.
Vehicle-door lock.
Vehicle-lever lock.
Vehicle-wheel lock.
Wheel-lock.
Window-lock.
Lock. C. Armat. No. 1,360,351 Nov. 30; v. 280; p. 835.
Lock. E. P. Baird. No. 1,352,239; Sept. 7; v. 278; p. 101.
Lock. W. J. and J. F. Becker. No. 1,364,024; Dec. 28; v. 281; p. 736.
Lock. A. Block. No. 1,344,613; June 29; v. 275; p. 836.
Lock. I. D. Brill. No. 1,350,356; Aug. 24; v. 277; p. 604.
Lock. R. E. Brown. No. 1,342,157; June 1; v. 275; p. 107.
Lock. L. E. Cantrell. No. 1,344,484; June 22; v. 275; p. 745.
Lock. B. J. Cohon and L. Moskowitz. No. 1,351,838; Sept. 7; v. 278; p. 25.
Lock. A. E. Cox. No. 1,350,989; Aug. 24; v. 277; p. 726.
Lock. W. R. Cox. No. 1,334,292; Mar. 23; v. 272; p. 558.
Lock. H. H. Crane. No. 1,335,821; Apr. 6; v. 273; p. 22.
Lock. L. T. Diebolt. No. 1,350,213; Aug. 17; v. 277; p. 530.
Lock. B. S. Egbert and A. T. Raynor. No. 1,357,446; Nov. 2; v. 280; p. 46.
Lock. A. S. Falls. No. 1,361,702; Dec. 7; v. 281; p. 145.
Lock. M. Fleisher. No. 1,359,347; Nov. 16; v. 280; p. 524.
Lock. T. M. Fletcher. No. 1,330,856; Feb. 17; v. 271; p. 382.
Lock. J. Forsheim and J. Konigsberg. No. 1,334,950; Mar. 30; v. 272; p. 742.
Lock. N. P. Fraser. No. 1,346,815; July 20; v. 276; p. 415.
Lock. B. Freedman. No. 1,337,511; Apr. 20; v. 273; p. 477.
Lock. W. H. Ganss. No. 1,352,890; Sept. 14; v. 278; p. 265.
Lock. H. E. Gilland. No. 1,364,048; Dec. 28; v. 281; p. 740.
Lock. L. H. Gorowitz. No. 1,334,852; Mar. 23; v. 272; p. 664.
Lock. D. G. Hardy. No. 1,360,943; Nov. 30; v. 280; p. 951.
Lock. G. S. Henley. No. 1,355,043; Oct. 5; v. 279; p. 118.
Lock. J. Karasevicz. No. 1,336,080; Apr. 6; v. 273; p. 71.
Lock. C. E. Leifer. No. 1,345,787; July 6; v. 276; p. 90.
Lock. P. Lesiuk. No. 1,330,378; Feb. 10; v. 271; p. 224.
Lock. C. van der Leun. No. 1,342,075; June 1; v. 275; p. 90.
Lock. J. W. Lindberg. No. 1,329,418; Feb. 3; v. 271; p. 14.
Lock. I. A. McCormack. No. 1,343,271; June 15; v. 275; p. 441.
Lock. J. C. Mock and B. F. Williston. No. 1,348,234; Aug. 3; v. 277; p. 21.
Lock. J. J. Morris. No. 1,346,763; July 13; v. 276; p. 345.
Lock. S. Muraski. No. 1,352,018; Sept. 7; v. 278; p. 60.
Lock. R. A. Nesmith. No. 1,338,150; Apr. 27; v. 273; p. 667.
Lock. E. H. Nied. No. 1,328,186; Jan. 13; v. 270; p. 306.
Lock. Z. Pehel. No. 1,330,650; Feb. 10; v. 271; p. 275.
Lock. W. Pendziwiater. No. 1,331,781; Feb. 24; v. 271; p. 576.
Lock. A. W. Ricks. No. 1,358,877; Nov. 16; v. 280; p. 434.
Lock. F. W. Schroeder. No. 1,357,122; Oct. 26; v. 279; p. 665.
Lock. J. H. Shaw. No. 1,333,189; Mar. 9; v. 272; p. 244.
Lock. J. H. Shaw. No. 1,339,721; May 11; v. 274; p. 276.
Lock. J. S. Shimocuskies. No. 1,358,885; Nov. 16; v. 280; p. 436.
Lock, C. Skolneek. No. 1,356,747; Oct. 26; v. 279; p. 591.
Lock. F. Sobin. No. 1,343,064; June 8; v. 275; p. 338.
Lock. J. I. Steen. No. 1,351,806; Sept. 7; v. 278; p. 18.
Lock. E. B. Stone. No. 1,363,486; Dec. 28; v. 281; p. 632.
Lock. B. M. Stone. No. 1,328,106; Jan. 13; v. 270; p. 291.
Lock. H. A. Swenson. No. 1,341,602; May 25; v. 274; p. 762.
Lock. J. M. Taylor. No. 1,350,392; Aug. 24; v. 277; p. 611.
Lock. E. L. Teich. No. 1,346,142; July 13; v. 276; p. 222.
Lock. C. O. Tracy. No. 1,360,057; Nov. 23; v. 280; p. 710.
Lock. C. D. Warlick. No. 1,332,784; Mar. 2; v. 272; p. 116.
Lock. G. W. Wells. No. 1,358,404; Nov. 9; v. 280; p. 295.
Lock. C. Wolf. No. 1,344,469; June 22; v. 275; p. 742.
Lock. C. Wróblewski. No. 1,338,605; Apr. 27; v. 273; p. 752.
Lock. V. Zimmermann. No. 1,355,725; Oct. 12; v. 279; p. 303.
Lock and burglar-alarm, Portable automatic door-. S. Ritchie. No. 1,346,768; July 13; v. 276; p. 346.
Lock and jack, Combination. W. F. Brittain. No. 1,3334,482; Mar. 23; v. 272; p. 594.
Lock and latch. J. T. Bickel. No. 1,341,038; May 25; v. 274; p. 654.
Lock and opener, Automatic door. F. C. Sherman. No. 1,334,805; Mar. 23; v. 272; p. 655.
Lock and retainer, Shift-block. G. C. Jensen. No. 1,348,802; Aug. 3; v. 277; p. 129.
Lock and reversing mechanism, Differential. E. J. Gould. No. 1,350,276; Aug. 17; v. 277; p. 542.
Lock, Bushing-. G. H. Langton. No. 1,363,663; Dec. 28; v. 281; p. 666.
Lock construction. F. A. Newhall. No. 1,351,117; Aug. 31; v. 277; p. 814.
Lock-cover-securing means. L. Rial and W. Hebern. No. 1,358,654; Nov. 9; v. 280; p. 344.
Lock device, Clutch-lever-. C. W. Bopp. No. 1,333,535; Mar. 9; v. 272; p. 309.
Lock device for gear-shift levers. C. E. Mentzer. No. 1,344,554; June 22; v. 275; p. 759.
Lock for cloth measuring and cost computing machines. D. Turner. No. 1,363,292; Dec. 28; v. 281; p. 595.
Lock for frame structures, Joint-. H. M. Gorsline. No. 1,356,062; Oct. 19; v. 279; p. 410.
Lock for mail-boxes. R. B. Lillard. No. 1,362,949; Dec. 21; v. 281; p. 487.
Lock for vehicles, Safety-. A. E. Miller. No. 1,362,955; Dec. 21; v. 281; p. 488.
Lock mechanism. S. D. Livingston and C. E. Stahl. No. 1,343,187; June 8; v. 275; p. 362.
Lock mechanism. H. G. Voight. No. 1,338,053; Apr. 27; v. 273; p. 649.
Lock-mounting plate A. F. Erickson. No. 1,327,426; Jan. 6; v. 270; p. 101.
Lock-nut. P. A. Flynn. No. 1,363,504; Dec. 28; v. 281; p. 635.
Lock-nut. L. J. Schnell. No. 1,352,090; Sept. 7; v. 278; p. 73.
Lock-nut or union, Adjustable split. H. E. Dickinson. No. 1,350,142; Aug. 17; v. 277; p. 516.
Lock, retainer, and interlock for shifter devices. G. C. Jensen. No. 1,337,654; Apr. 20; v. 273; p. 504.
Lock safety device. A. Andréani. No. 1,360,489; Nov. 30; v. 280; p. 863.
Lock-switch. F. T. Earle. No. 1,356,430; Oct. 19; v. 279; p. 482.
Lock-switch. W. J. Newton. No. 1,333,090; Mar. 9; v. 272; p. 226.
Lock-washer. W. F. Farnsworth. No. 1,335,944; Apr. 6; v. 273; p. 45.
Lock-washer. C. A. Medbery. No. 1,342,559; June 8; v. 275; p. 238.
Lock-washer-making machine. F. Kessel. No. 1,338,737; May 4; v. 274; p. 16.
Locks, Circuit-closer for. J. J. Hood. No. 1,347,039; July 20; v. 276; p. 459.
Locks, Circuit-closer for. J. Schwartz. No. 1,358,254; Nov. 9; v. 280; p. 264.
Locks, Dial-indicator for combination-. H. G. Balthasar. No. 1,327,457; Jan. 6; v. 270; p. 107.
Locks, Fixing device for cylinder-. V. J. M. Eras and H. J. J. M. Lips. No. 1,343,712; June 15; v. 275; p. 529.
Locks, Recorder for registering. C. E. Larrabee. No. 1,327,334; Jan. 6; v. 270; p. 84.
Locks, Seal for. I. A. McCormack. No. 1,352,073; Sept. 7; v. 278; p. 70.
Locking arrangement for sliding members, Wedge-operated. E. C. Martet. No. 1,357,576; Nov. 2; v. 280; p. 70.

Digitized by Google

Locking attachment. J. P. Headley, Jr. No. 1,342,020; June 1; v. 275; p. 80.
Locking device. C. E. Anable. No. 1,329,691; Feb. 3; v. 271; p. 64.
Locking device. G. W. Burton. No. 1,349,491; Aug. 10; v. 277; p. 317.
Locking device. W. H. Greenleaf. No. 1,338,221; Apr. 27; v. 273; p. 681.
Locking device. B. L. Hendricks. No. 1,338,131; Apr. 27; v. 273; p. 664.
Locking device. J. P. Linden. No. 1,343,733; June 15; v. 275; p. 532.
Locking device. F. O. W. New. No. 1,360,563; Nov. 30; v. 280; p. 877.
Locking device. G. E. Rigby. No. 1,356,087; Oct. 19; v. 279; p. 415.
Locking device. F. M. Robinson. No. 1,358,989; Nov. 16; v. 280; p. 456.
Locking device. Auto safety. B. L. Hendricks. No. 1,331,642; Feb. 24; v. 271; p. 551.
Locking device for follower-blocks. J. A. Peel and A. J. Ford. No. 1,355,257; Oct. 12; v. 279; p. 213.
Locking device for transmissions. A. E. Stenberg. No. 1,361,195; Dec. 7; v. 281; p. 43.
Locking device, Nut-. R. L. Martin. No. 1,327,836; Jan. 13; v. 270; p. 240.
Locking device, Time-controlled dead-. R. C. Lewis. No. 1,337,928; Apr. 20; v. 273; p. 556.
Locking means. E. D. Anderson. No. 1,359,856; Nov. 23; v. 280; p. 670.
Locking means. D. E. Riggins. No. 1,330,894; Feb. 10; v. 271; p. 227.
Locking mechanism. F. Adam. No. 1,329,572; Feb. 3; v. 271; p. 43.
Locking mechanism. H. W. Corning. No. 1,337,545; Apr. 20; v. 273; p. 483.
Locking mechanism. Differential-. H. O. Darr. No. 1,338,720; May 4; v. 274; p. 13.
Locking medium for decorative and other blocks. L. Schepmoes. No. 1,361,501; Dec. 7; v. 281; p. 105.
Locking-receptacle. F. J. Miller. No. 1,356,301; Oct. 19; v. 279; p. 458.
Locking-switch. F. E. Getts. No. 1,339,506; May 11; v. 274; p. 235.
Locking-switch. E. O. Sessions. No. 1,342,972; June 8; v. 275; p. 319.
Locking-washer. C. Offner. No. 1,341,279; May 25; v. 274; p. 700.
Locket. P. Benjamin and S. Burger. No. 1,362,384; Dec. 14; v. 281; p. 326.
Locket. F. A. Kohlhepp. No. 1,342,817; June 8; v. 275; p. 289.
Locket. H. Wachenheimer. No. 1,342,035; June 1; v. 275; p. 83.
Locket, Electric pull-. W. A. Behrens. No. 1,357,939; Nov. 9; v. 280; p. 202.
Locomotive. A. L. Bridgham. No. 1,354,238; Sept. 28; v. 278; p. 637.
Locomotive. G. M. Eaton. No. 1,347,898; July 27; v. 276; p. 686.
Locomotive. G. H. F. Holy. No. 1,351,038; Aug. 31; v. 277; p. 800
Locomotive. G. Krakowsky. No. 1,361,877; Dec. 14; v. 281; p. 226.
Locomotive. W. C. Lawson. No. 1,327,248; Jan. 6; v. 270; p. 68.
Locomotive. W. A. Newman. No. 1,354,679; Oct. 5; v. 279; p. 47.
Locomotive. W. E. Woodard. No. 1,341,961; June 1; v. 275; p. 68.
Locomotive and car wheel gage. F. Curran. No. 1,347,684; July 27; v. 276; p. 643.
Locomotive and other smoke or fire tube boilers, Combined feed-water heater and steam-superheater for. G. H. Willans. No. 1,353,200; Sept. 21; v. 278; p. 385.
Locomotive-axles, Lateral take-up device for. H. B. Furstonburg. No. 1,344,267; June 22; v. 275; p. 702.
Locomotive blast-pipe. E. Harlet. No. 1,344,887; June 29; v. 275; p. 888.
Locomotive-blow-off-cock device. J. Van Meter. No. 1,358,266; Nov. 9; v. 280; p. 266.
Locomotive-boiler. J. L. Nicholson. No. 1,337,720; Apr. 20; v. 273; p. 517.
Locomotive-boiler. W. Shinn. No. 1,328,303; Jan. 20; v. 270; p. 364.
Locomotive-boilers, Steam-superheater for. G. B. Green. No. 1,356,354; Oct. 19; v. 279; p. 468.
Locomotive booster-motor. H. L. Ingersoll. No. 1,339,395; May 11; v. 274; p. 213.
Locomotive-boxings and locking means therefor, Removable brass for. J. P. Finerty and F. Croghan. No. 1,358,306; Nov. 9; v. 280; p. 274.
Locomotive-cab window. C. J. Barley. No. 1,363,552; Dec. 28; v. 281; p. 645.
Locomotive-cab window. H. C. Hogle. No. 1,348,647; Aug. 3; v. 277; p. 100.
Locomotive-cab seat. J. Purcell. No. 1,356,558; Oct. 26; v. 279; p. 554.
Locomotive-cabs, Front door for. W. R. Dalton. No. 1,330,518; Feb. 10; v. 271; p. 251.
Locomotive-cabs, Front storm-window for. T. P. and O. V. Glendy. No. 1,360,393; Nov. 30; v. 280; p. 844.
Locomotive-cabs, Storm-window attachment for. L. R. Donovan. No. 1,345,147; June 29; v. 275; p. 937.
Locomotive check-valve. J. B. Mowry. No. 1,354,440; Sept. 28; v. 278; p. 677.
Locomotive construction. G. M. Eaton. No. 1,336,555; Apr. 13; v. 273; p. 220.
Locomotive construction. R. G. Thompson. No. 1,344,740; June 29; v. 274; p. 800.
Locomotive-crane brake. E. Carrow. No. 1,356,486; Oct. 19; v. 279; p. 493.
Locomotive-crane sander. T. H. Cochrane. No. 1,340,016; May 11; v. 274; p. 331.
Locomotive-crosshead. J. S. Scanlin. No. 1,354,781; Oct. 5; v. 279; p. 67.
Locomotive draft appliance. D. F. Crawford. No. 1,356,808; Oct. 26; v. 279; p. 603.
Locomotive draft appliance. D. F. Crawford and A. K. Kusebauch. No. 1,356,809; Oct. 26; v. 279; p. 603.
Locomotive draft appliance. A. K. Kusebauch. No. 1,356,824; Oct. 26; v. 279; p. 606.
Locomotive drifting device. L. A Holst. No. 1,331,013; Feb. 17; v. 271; p. 413.
Locomotive drifting device. C. F. Prescott. No. 1,330,392; Feb. 10; v. 271; p. 227.
Locomotive driving-box. F. J. Cole. No. 1,338,491; Apr. 27; v. 273; p. 732.
Locomotive driving-box. A. W. Simmons. No. 1,339,228; May 4; v. 274; p. 107.
Locomotive dry pipes, Engineer's safety throttle for. J. W. Hartman. No. 1,358,844; Nov. 16; v. 280; p. 427.
Locomotive, Electric. G. H. F. Holy. No. 1,351,039; Aug. 31; v. 277; p. 800.
Locomotive, Electric. C. C. Powers. No. 1,341,243; May 25; v. 274; p. 693.
Locomotive fire-box. C. A. Siegel. No. 1,335,399; Mar. 30; v. 272; p. 827.
Locomotive-fire-box arch. E. M. McLean and C. B. Yoder. No. 1,357,575; Nov. 2; v. 280; p. 70.
Locomotive-firebox arch. G. E. Ryder. No. 1,337,486; Apr. 20; v. 273; p. 472.
Locomotive front-end frame. W. M. Sheehan. No. 1,345,464; July 6; v. 276; p. 27.
Locomotive, Geared. E. F. Backer. No. 1,360,709; Nov. 30; v. 280; p. 906.
Locomotive, Mine-. W. W. Sloane. No. 1,358,028; Nov. 9; v. 280; p. 219.
Locomotive, Mine-. W. W. Sloane. No. 1,358,029; Nov. 9; v. 280; p. 219.
Locomotive, Oil-burning. J. T. Anthony. No. 1,340,202; May 18; v. 274; p. 424.
Locomotive or car. A. F. Batchelder. No. 1,359,861; Nov. 23; v. 280; p. 671.
Locomotive-rods, Stub-end bearing for. K. Rushton. No. 1,328,591; Jan. 20; v. 270; p. 420.
Locomotive-roundhouse jack. G. F. Devine. No. 1,337,347; Apr. 20; v. 273; p. 446.
Locomotive-scale. G. Schnurr. No. 1,338,593; Apr. 27; v. 273; p. 750.
Locomotive shaker-levers, Shield for. E. L. Bringman. No. 1,358,516; Nov. 9; v. 280; p. 317.
Locomotive smoke-boxes, Means for controlling the draft in. W. J. McCarroll. No. 1,333,861; Mar. 16; v. 272; p. 431.
Locomotive spark-arrester. B. Fisher. No. 1,356,201; Oct. 19; v. 279; p. 438.
Locomotive-stoker. H. Lindsay. No. 1,347,281; July 20; v. 276; p. 506.
Locomotive, Storage-battery. G. H. F. Holy. No. 1,352,452; Sept. 14; v. 278; p. 177.
Locomotive, Storage-battery. R. Mancha. No. 1,337,610; Apr. 20; v. 273; p. 495.
Locomotive, Storage-battery. W. W. Sloane. No. 1,331,591; Feb. 24; v. 271; p. 541.
Locomotive, Storage-battery. W. W. Sloane. No. 1,337,334; Apr. 20; v. 273; p. 444.
Locomotive-throttle-valve device. W. J. Knox. No. 1,356,925; Oct. 26; v. 279; p. 626.
Locomotive-tire limit-of-wear gage. A. B. Hedges. No. 1,346,748; July 13; v. 276; p. 342.
Locomotive, track signals provided for the protection of moving trains, Apparatus for repeating automatically on a railway-. E. Schneider. No. 1,352,389; Sept. 7; v. 278; p. 129.
Locomotive, Traction-. A. R. Williams. No. 1,334,577; Mar. 23; v. 272; p. 612.
Locomotive traction-increaser. D. P. Kellogg and P. Sheedy. No. 1,359,175; Nov. 16; v. 280; p. 490.
Locomotive transmission system. G. M. Eaton. No. 1,329,269; Jan. 27; v. 270; p. 576.
Locomotive-wheel-blocking device. J. J. Hauck and W. H. Whyte. No. 1,356,358; Oct. 19; v. 279; p. 469.
Locomotives, Air-preheater for. F. Ljungström and I. Broberg. No. 1,360,546; Nov. 30; v. 280; p. 874.
Locomotives, Automatic sander for. R. D. Dreisbach. No. 1,360,627; Nov. 30; v. 280; p. 890.
Locomotives, Condenser for. C. Kohler. No. 1,363,883; Dec. 28; v. 281; p. 709.
Locomotives, Economizer for. W. F. Kiesel, Jr. No. 1,343,144; June 8; v. 275; p. 354.
Locomotives, Feeding device for pulverous fuel in furnaces for. K. H. V. von Porat. No. 1,337,738; Apr. 20; v. 273; p. 520.
Locomotives, Footplate for electric. A. Wallace. No. 1,343,698; June 15; v. 275; p. 526.

Digitized by Google

Locomotives, Governor for booster-motors for. H. L. Ingersoll. No. 1,339,513; May 11; v. 274; p. 236.
Locomotives, Lubricating device for valves and cylinders of superheating-. H. M. Stevens. No. 1,351,807; Sept. 7; v. 278; p. 18.
Locomotives, Mechanism for operating the reels of mine-. F. B. Deans and B. K. Kirk. No. 1,337,048; Apr. 13; v. 273; p. 315.
Locomotives, Method of and apparatus for drafting. (Reissue.) D. M. Lewis. No. 14,809; Mar. 2; v. 272; p. 133.
Locomotives provided with surface condensers, Device for the recuperation of available heat on steam-. C. Kohler. No. 1,342,544; June 8; v. 275; p. 235.
Locomotives, Push-pole for. L. V. Stevens. No. 1,349,985; Aug. 17; v. 277; p. 486.
Locomotives, Radial driving-wheel for. K. Rushton. No. 1,355,699; Oct. 12; v. 279; p. 299.
Locomotives, Repair apparatus for. A. E. Dillon. No. 1,341,302; May 25; v. 274; p. 704.
Locomotives, Smoke-consuming device for. T. K. Bishop. No. 1,348,537; Aug. 3; v. 277; p. 79.
Locomotives, Strainer for water-supply pipes of. J. Guy. No. 1,327,708; Jan. 13; v. 270; p. 216.
Locomotives, Swing-truck for. K. Rushton. No. 1,363,923; Dec. 28; v. 281; p. 717.
Locomotives, Tool for facilitating the casting of hub-liners on bearing-boxes for. C. Guggenbuehler. No. 1,344,083; June 22; v. 275; p. 666.
Locomotives, Tool for facilitating the positioning of driving-shoes in driving-box bearings of. C. Guggenbuehler. No. 1,327,468; Jan. 6; v. 270; p. 109.
Locomotives, Wear-plate for driving-axle boxes for. K. Rushton. No. 1,345,254; June 29; v. 295; p. 958.
Log-chutes, Adjustable speed-controlling device for. O. W. Johnston. No. 1,359,386; Nov. 16; v. 280; p. 531.
Log-cutting machine. J. E. Mitchell and D. Parks. No. 1,332,912; Mar. 9; v. 272; p. 192.
Log-hauling apparatus. H. K. Kearney. No. 1,330,123; Feb. 10; v. 271; p. 177.
Log-loader. J. C. Sprague and A. G. Johnston. No. 1,363,930; Dec. 28; v. 281; p. 718.
Log-rafting apparatus. F. Blewer. No. 1,343,429; June 15; v. 275; p. 472.
Log-skidding grapple. H. Andersen. No. 1,353,503; Sept. 21; v. 278; p. 445.
Logs, Grappling-hook for skidding. S. Thomas. No. 1,344,320; June 22; v. 275; p. 712.
Logs or blocks from storage-piles, Apparatus for recovering. W. C. Soubliere and R. W. McKenzie. No. 1,335,132; Mar. 30; v. 272; p. 778.
Logging-engine. H. L. Turney. No. 1,331,295; Feb. 17; v. 271; p. 464.
Logging-engine. H. L. Turney. No. 1,362,373; Dec. 14; v. 281; p. 324.
Logging-engine. J. S. Wilson. No. 1,329,870; Feb. 3; v. 271; p. 99.
Logging-engine, Two-speed. H. L. Turney. No. 1,349,742; Aug. 17; v. 277; p. 440.
Logging-hook. W. Bastord. No. 1,334,830; Mar. 23; v. 272; p. 660.
Logging system. O. A. Wirkkala. No. 1,336,877; Apr. 13; v. 273; p. 282.
Loom. P. G. Gielen. No. 1,336,741; Apr. 13; v. 273; p. 256.
Loom. P. G. Gielen. No. 1,362,287; Dec. 14; v. 281; p. 308.
Loom. B. Hilbert. No. 1,351,515; Aug. 31; v. 277; p. 892.
Loom. J. Joule and C. A. Coups. No. 1,353,962; Sept. 28; v. 278; p. 580.
Loom. J. Joule and C. A. Coups. No. 1,353,963; Sept. 28; v. 278; p. 580.
Loom. E. M. de Neergaard. No. 1,332,165; Feb. 24; v. 271; p. 648.
Loom. E. M. de Neergaard. No. 1,332,166; Feb. 24; v. 271; p. 648.
Loom. M. L. Stone. No. 1,345,900; July 6; v. 276; p. 113.
Loom. A. E. Stroud. No. 1,357,127; Oct. 26; v. 279; p. 666.
Loom. V. P. Thewlis, D. G. Melville, and R. A. Taylor. No. 1,358,039; Nov. 9; v. 280; p. 222.
Loom. R. G. Turner. No. 1,336,545; Apr. 13; v. 273; p. 219.
Loom. E. S. Webster. No. 1,331,603; Feb. 24; v. 271; p. 543.
Loom attachment. D. Blombach. No. 1,334,074; Mar. 16; v. 272; p. 471.
Loom attachment. J. B. Ouellette. No. 1,347,399; July 20; v. 276; p. 529.
Loom, Automatic. J. Northrop. No. 1,328,585; Jan. 20; v. 270; p. 418.
Loom, Automatic filling-replenishing. A. E. Rhoades. No. 1,342,573; June 8; v. 275; p. 241.
Loom, Automatic filling-replenishing. A. E. Rhoades. No. 1,351,188; Aug. 31; v. 277; p. 828.
Loom, Automatic filling-replenishing. A. E. Rhoades. No. 1,351,189; Aug. 31; v. 277; p. 828.
Loom, Automatic filling-replenishing. A. E. Rhoades. No. 1,351,190; Aug. 31; v. 277; p. 828.
Loom-box motion. W. J. Crowle. No. 1,351,099; Aug. 31; v. 277; p. 810.
Loom, Circular. J. A. Kennedy. No. 1,327,676; Jan. 13; v. 270; p. 210.
Loom, Controlling mechanism for. F. H. A. Wielgolaski. No. 1,355,200; Oct. 12; v. 279; p. 202.
Loom, Drop-box. A. A. Davenport. No. 1,343,663; June 15; v. 275; p. 519.
Loom element. H. I. Morris. No. 1,358,094; Nov. 9; v. 280; p. 233.
Loom element. H. I. Morris. No. 1,361,530; Dec. 7; v. 281; p. 112.
Loom, Feeler-. C. H. Draper and J. Northrop. No. 1,361,839; Dec. 14; v. 281; p. 218.
Loom, Feeler-. C. H. Draper and J. Northrop. No. 1,361,973; Dec. 14; v. 281; p. 246.
Loom, Feeler-. J. Northrop. No. 1,361,897; Dec. 14; v. 281; p. 230.
Loom, Feeler-. J. Northrop. No. 1,361,898; Dec. 14; v. 281; p. 230.
Loom, Feeler-. M. L. Stone. No. 1,350,121; Aug. 17; v. 277; p. 512.
Loom, Feeler-. E. J. Wentz. No. 1,347,726; July 27; v. 276; p. 651.
Loom feeler mechanism. P. Boisvert. No. 1,362,114; Dec. 14; v. 281; p. 274.
Loom feeler mechanism. F. Lacey. No. 1,362,108; Dec. 14; v. 281; p. 272.
Loom feeler mechanism. F. Lacey. No. 1,362,109; Dec. 14; v. 281; p. 273.
Loom feeler mechanism. F. Lacey. No. 1,362,110; Dec. 14; v. 281; p. 273.
Loom feeler mechanism. F. Lacey. No. 1,362,111; Dec. 14; v. 281; p. 273.
Loom feeler mechanism. F. Lacey. No. 1,362,112; Dec. 14; v. 281; p. 273.
Loom feeler mechanism. F. Lacey. No. 1,362,113; Dec. 14; v. 281; p. 274.
Loom feeler mechanism. F. Lacey. No. 1,362,115; Dec. 14; v. 281; p. 274.
Loom feeler mechanism. F. Lacey. No. 1,362,116; Dec. 14; v. 281; p. 274.
Loom feeler mechanism. F. Lacey. No. 1,362,117; Dec. 14; v. 281; p. 274.
Loom feeler mechanism. F. Lacey. No. 1,362,118; Dec. 14; v. 281; p. 275.
Loom feeler mechanism. E. S. Stimpson. No. 1,327,788; Jan. 13; v. 270; p. 231.
Loom feeler mechanism. M. L. Stone. No. 1,362,119; Dec. 14; v. 281; p. 275.
Loom feeler mechanism. C. H. Warren. No. 1,332,699; Mar. 2; v. 272; p. 100.
Loom feeler-motion. J. H. Barlow. No. 1,362,107; Dec. 14; v. 281; p. 272.
Loom feeler-motion. E. S. Stimpson. No. 1,327,069; Jan. 6; v. 270; p. 36.
Loom feeler-motion. E. S. Stimpson. No. 1,327,070; Jan. 6; v. 270; p. 36.
Loom feeler-motion. E. S. Stimpson. No. 1,331,827; Feb. 24; v. 271; p. 586.
Loom filling-catcher. M. L. Stone. No. 1,362,120; Dec. 14; v. 281; p. 275.
Loom filling-end controller. M. L. Stone. No. 1,362,121; Dec. 14; v. 281; p. 275.
Loom, Filling-replenishing. C. D. Brown. No. 1,350,640; Aug. 24; v. 277; p. 660.
Loom, Filling-replenishing. H. A. Davis. No. 1,350,093; Aug. 17; v. 277; p. 507.
Loom, Filling-replenishing. A. E. Rhoades. No. 1,328,452; Jan. 20; v. 270; p. 393.
Loom, Filling-replenishing. H. W. Youngquist. No. 1,331,838; Feb. 24; v. 271; p. 588.
Loom, Finishing-replenishing. A. E. Rhoades. No. 1,341,999; June 1; v. 275; p. 75.
Loom for weaving double pile or tufted carpets, &c., Power-. B. S. Smith. No. 1,330,917; Feb. 17; v. 271; p. 394.
Loom for weaving flat rings. E. B. Paul. No. 1,362,134; Dec. 14; v. 281; p. 278.
Loom for weaving tufted fabric, such as carpets. A. Davis. No. 1,341,417; May 25; v. 274; p. 727.
Loom for weaving wire cloth. A. S. Knapp. No. 1,352,610; Sept. 14; v. 278; p. 209.
Loom, Hand-. S. Haag. No. 1,335,163; Mar. 30; v. 272; p. 783.
Loom-harness, Shedding mechanism for. E. Ewart. No. 1,333,164; Mar. 9; v. 272; p. 239.
Loom, Hatband-. A. Mueller. No. 1,351,533; Aug. 31; v. 277; p. 897.
Loom let-off mechanism. W. L. Maffett and J. C. Gray. No. 1,358,088; Nov. 9; v. 280; p. 231.
Loom, Needle-. S. Kendrick. No. 1,330,810; Feb. 17; v. 271; p. 373.
Loom, Needle-. H. R. Parker. No. 1,337,259; Apr. 20; v. 273; p. 429.
Loom-picker, Loop. W. I. Bullard. No. 1,332,102; Feb. 24; v. 271; p. 637.
Loom picker-stick check. W. W. Hestley. No. 1,337,070; Apr. 13; v. 273; p. 320.
Loom reed cleaning and polishing machine. E. F. Hathaway. No. 1,328,563; Jan. 20; v. 270; p. 414.
Loom-seat. A. E. Rhoades. No. 1,329,546; Feb. 3; v. 271; p. 38.
Loom-shuttle. H. H. Gene. No. 1,363,584; Dec. 28; v. 281; p. 651.

Digitized by Google

Loom-shuttle. W. J. Gladue. No. 1,361,714; Dec. 7; v. 281; p. 147.
Loom-shuttle. S. R. Liberty. No. 1,347,170; July 20; v. 276; p. 484.
Loom-shuttle. H. Matthews. No. 1,358,229; Nov. 9; v. 280; p. 259.
Loom-shuttle. E. S. Stimpson. No. 1,334,683; Mar. 23; v. 272; p. 631.
Loom shuttle-guard. V. K. Badoian. No. 1,329,157; Jan. 27; v. 270; p. 555.
Loom-shuttles, Thread-lock for hand-threading. J. V. Allen. No. 1,336,805; Apr. 13; v. 273; p. 269.
Loom stop mechanism. W. H. Bahan, Jr. No. 1,339,841; May 11; v. 274; p. 299.
Loom stop-motion. S. Kamelgar. No. 1,358,214; Nov. 9; v. 280; p. 256.
Looms, Stop-motion for. P. A. Millis. No. 1,347,395; July 20; v. 276; p. 528.
Looms, Stop mechanism for. E. F. Businger. No. 1,363,492; Dec. 28; v. 281; p. 633.
Loom-stopping mechanism. H. Lussier. No. 1,342,555; June 8; v. 275; p. 237.
Loom-temple. W. W. Neighbour. No. 1,355,770; Oct. 12; v. 279; p. 312.
Loom tension device. J. A. Kennedy. No. 1,333,808; Mar. 16; v. 272; p. 421.
Loom, Terry-. A. E. Rhoades. No. 1,341,929; June 1; v. 275; p. 62.
Loom tube-frame. C. Lea. No. 1,329,302; Jan. 27; v. 270; p. 581.
Loom, Weft-replenishing. E. A. and J. V. Cunniff and J. K. Lanning. No. 1,341,883; June 1; v. 275; p. 53.
Loom, Weft-replenishing. E. H. Ryon. No. 1,360,586; Nov. 30; v. 280; p. 882.
Loom whip-roll. W. B. Williams. No. 1,358,668; Nov. 9; v. 280; p. 347.
Loom, Wire-. H. Denby. No. 1,351,233; Aug. 31; v. 277; p. 837.
Looms, Automatic controlling attachment for. L. Rothfuchs. No. 1,336,089; Apr. 6; v. 273; p. 73.
Looms, Automatic pattern-reverser for. O. Rodier No. 1,354,690; Oct. 5; v. 279; p. 49.
Looms, Automatic shuttle-stop for. T. F. Loftus and F. E. Brazeal. No. 1,357,066; Oct. 26; v. 279; p. 654.
Looms, Beam-lock for. H. A. Davis. No. 1,359,580; Nov. 23; v. 280; p. 615.
Looms, Belt-holder for. K. Eckert. No. 1,344,177; June 22; v. 275; p. 684.
Looms, Cam for. H. A. Davis. No. 1,350,094; Aug. 17; v. 277; p. 507.
Looms, Check for picker-sticks for. S. D. Eubanks. No. 1,353,387; Sept. 21; v. 278; p. 421.
Looms, Draw-off mechanism for. M. P. Du Pray. No. 1,357,968; Nov. 9; v. 280; p. 208.
Looms, Drawing attachment for circular. L. Atwood. No. 1,359,655; Nov. 23; v. 280; p. 630.
Looms, Electrical feeler arrangement for weaving-. H. ter Kuile. No. 1,330,036; Feb. 3; v. 271; p. 129.
Looms, Feeler mechanism for. A. E. Rhoades. No. 1,339,002; May 4; v. 274; p. 65.
Looms, Feeler-motion for. E. S. Stimpson. No. 1,328,907; Jan. 27; v. 270; p. 508.
Looms, Feeler-motion for. E. S. Stimpson. No. 1,328,908; Jan. 27; v. 270; p. 508.
Looms, Filling, clamping, and parting machine for. J. P. Rolen. No. 1,341,022; May 25; v. 274; p. 657.
Looms, Filling end catcher for. A. E. Rhoades. No. 1,331,675; Feb. 24; v. 271; p. 557.
Looms, Filling-stripper for. A. D. and A. Tetreau. No. 1,333,098; Mar. 9; v. 272; p. 227.
Looms for weaving, Self-acting warp-tension-regulating motion for. P. Scholes. No. 1,350,943; Aug. 24; v. 277; p. 718.
Looms, Friction let-off for. F. Lacey. No. 1,335,510; Mar. 30; v. 272; p. 847.
Looms, Harness-motion for. L. Bozzo. No. 1,333,060; Mar. 9; v. 272; p. 220.
Looms, Knock-off mechanism for. S. C. Johnston. No. 1,353,343; Sept. 21; v. 278; p. 413.
Looms, Let-off mechanism for. E. A. Gagnon. No. 1,330,255; Feb. 10; v. 271; p. 202.
Looms, Picker-stick for. H. F. Marshall. No. 1,352,297; Sept. 7; v. 278; p. 112.
Looms, Picking-motion-checking means for. C. Van De Voort. No. 1,342,726; June 8; v. 275; p. 270.
Looms, Picking-motion for. R. C. Dreher. No. 1,342,946; June 8; v. 275; p. 314.
Looms, Protector-rod holder for. D. Demeule. No. 1,331,626; Feb. 24; v. 271; p. 548.
Looms, Safety stop-motion for Jacquard. L. S. Cannon. No. 1,336,677; Apr. 13; v. 273; p. 244.
Looms, Shed-forming mechanism for. L. W. Coupe. No. 1,335,876; Apr. 6; v. 273; p. 32.
Looms, Shedding motion for. L. G. Sabbag. No. 1,339,716; May 11; v. 274; p. 275.
Looms, Shuttle-checking and buffer device for. R. Redman, J. W. Parkinson, and C. T. Walker. No. 1,356,738; Oct. 26; v. 279; p. 589.
Looms, Shuttle-feeler for. J. Taranto. No. 1,341,026; May 25; v. 274; p. 651.
Looms, Shuttle for side-motion-feeler. E. S. Stimpson. No. 1,344,066; June 22; v. 275; p. 663.
Looms, Shuttle-motion for two-bank. A. A. Hodgkins. No. 1,348,417; Aug. 3; v. 277; p. 57.
Looms, Shuttle-retainer for. E. H. Timanus. No. 1,354,704; Oct. 5; v. 279; p. 52.
Loom-shuttles, Threading attachment for. J. W. Small. No. 1,353,076; Sept. 14; v. 278; p. 301.
Looms, Stop mechanism for. T. F. Finn. No. 1,353,824; Sept. 28; v. 278; p. 552.
Looms, Stop-motion for. W. Zeedyk. No. 1,360,487; Nov. 30; v. 280; p. 862.
Looms, Thread-cutting temple for. E. S. Stimpson. No. 1,344,065; June 22; v. 275; p. 663.
Looms, Thread-parting mechanism for. W. L. Barrell. No. 1,340,207; May 18; v. 274; p. 425.
Looms, Warp-opening mechanism for. J. Towers. No. 1,344,067; June 22; v. 275; p. 663.
Looms, Warp stop-motion for. J. M. Freeman. No. 1,355,956; Oct. 19; v. 279; p. 389.
Looms, Warp stop-motion for. A. E. Rhoades. No. 1,350,113; Aug. 17; v. 277; p. 511.
Looms, Weft-detector for. E. H. Ryon. No. 1,337,726; Apr. 20; v. 273; p. 518.
Looms, Weft-replenishing. W. L. Barrell. (Reissue.) No. 14,990; Nov. 23; v. 280; p. 748.
Looms, Weft-replenishing mechanism for. F. A. Kueny. No. 1,347,700; July 27; v. 276; p. 646.
Looms, Weft-spool changer for weaving-. A. G. Koechlin. No. 1,346,095; July 6; v. 276; p. 152.
Loop-attacher bumper, Resilient-. G. A. Lyon. No. 1,357,505; Nov. 2; v. 280; p. 57.
Loop, Drop-stake. W. J. Knox. No. 1,336,636; Apr. 13; v. 273; p. 236.
Loop holder, Slide-. C. H. Grings. No. 1,341,314; May 25; v. 274; p. 707.
Loop-transferring device. C. J., C. T. A., and J. O. Sibbald; No. 1,353,793; Sept. 21; v. 278; p. 503.
Looping-machine. W. J. Steere. No. 1,327,638; Jan. 13; v. 270; p. 203.
Loose-fiber cleaner. J. A. Snyder. No. 1,358,034; Nov. 9; v. 280; p. 220.
Loose-leaf device. A. Delkin. No. 1,354,894; Oct. 5; v. 279; p. 89.
Loose-leaf device. J. L. McMillan. No. 1,342,637; June 8; v. 275; p. 252.
Loose-leaf device. G. H. Potwin. No. 1,351,487; Aug. 31; v. 277; p. 888.
Low-pressure gage. J. E. Shrader. No. 1,346,427; July 13; v. 276; p. 279.
Lubricant-delivering device, Self-measuring. D. W. Barr. No. 1,336,187; Apr. 6; v. 273; p. 91.
Lubricants, Making. C. H. Bierbaum. No. 1,340,316; May 18; v. 274; p. 445.
Lubricants, Purifying apparatus for. F. R. Perry. No. 1,342,063; June 1; v. 275; p. 88.
Lubricating apparatus. A. Fesler. No. 1,342,671; June 8; v. 275; p. 259.
Lubricating apparatus. D. F. Fesler. No. 1,341,892; June 1; v. 275; p. 55.
Lubricating apparatus. D. F. Fesler. No. 1,361,375; Dec. 7; v. 281; p. 79.
Lubricating apparatus. J. A. Fesler. No. 1,341,420; May 25; v. 274; p. 728.
Lubricating apparatus. J. A. Fesler. No. 1,355,901; Oct. 19; v. 279; p. 378.
Lubricating apparatus. A. V. Gullborg. No. 1,333,412; Mar. 9; v. 272; p. 285.
Lubricating apparatus. W. F. Somes. No. 1,342,605; June 8; v. 275; p. 246.
Lubricating composition, Making. J. A. De Cew. No. 1,336,207; Apr. 6; v. 273; p. 95.
Lubricating-cup. E. M. Hemphill. No. 1,355,668; Oct. 12; v. 279; p. 292.
Lubricating-cup. A. Soudy. No. 1,352,847; Sept. 14; v. 278; p. 257.
Lubricating device. R. A. Bates. No. 1,336,413; Apr. 13; v. 273; p. 194.
Lubricating device. B. R. Hammond. No. 1,356,918; Oct. 26; v. 279; p. 625.
Lubricating device. A. L. Hansen. No. 1,339,619; May 11; v. 274; p. 257.
Lubricating device. G. Klumpp. No. 1,354,765; Oct. 5; v. 279; p. 64.
Lubricating device. J. B. MacDonald. No. 1,327,565; Jan. 6; v. 270; p. 128.
Lubricating device. C. Wyman. No. 1,348,769; Aug. 3; v. 269; p. 123.
Lubricating hook, Self-. J. W. Carriker. No. 1,358,616; Nov. 9; v. 280; p. 337.
Lubricating-indicator. E. V. Myers. No. 1,331,820; Feb. 24; v. 271; p. 584.
Lubricating means for leaf-springs. J. I. Richey. No. 1,352,915; Sept. 14; v. 278; p. 270.
Lubricating mechanism. L. B. Edwards. No. 1,347,019; July 20; v. 276; p. 455.
Lubricating mechanism. J. W. Freeman. No. 1,332,120; Feb. 24; v. 271; p. 640.
Lubricating mechanism. C. E. H. Lloyd. No. 1,329,717; Feb. 3; v. 271; p. 69.
Lubricating mechanism. H. R. Ricardo. No. 1,328,015; Jan. 13; v. 270; p. 273.
Lubricating mechanism. D. R. Scholes. No. 1,341,080; May 25; v. 274; p. 662.

Digitized by Google

Alphabetical list of inventions—Continued.

Lubricating-oil purifying and reclaiming system. F. R. C. Boyd and C. H. Hapgood. No 1,363,833; Dec 28; v. 281; p. 699.
Lubricating-pump. C. B. Kirkham. No. 1,363,793; Dec. 28; v. 281; p. 691.
Lubricating shackle-bolt. W. F. Emerson. No. 1,355,950; Oct. 19; v. 279; p. 387.
Lubricating-strip for leaf-springs. T. S. Hamilton. (Reissue.) No. 14,870; June 1; v. 275; p. 156.
Lubricating system. P. C. Day. No. 1,334,844; Mar. 23; v. 272; p. 668.
Lubricating system. F. S. and A. S. Duesenberg. No. 1,363,501; Dec. 28; v. 281; p. 685.
Lubricating system. J. O. Heinze. No. 1,331,765; Feb. 24; v. 271; p. 573.
Lubricating system. M. L. Kirkman and F. S. Wier. No. 1,354,663; Oct. 5; v. 279; p. 43.
Lubricating system and sewing-machine construction. J. P. Weis. No. 1,348,527; Aug. 3; v. 277; p. 77.
Lubricating system, Engine-controlled. V. N. Hansen. No. 1,352,954; Sept. 14; v. 278; p. 277.
Lubricating system, Motor-. E. Hayes. No. 1,330,445; Feb. 10; v. 271; p. 237.
Lubricating system, Splash. E. B. Cushman. No. 1,347,685; July 27; v. 276; p. 643.
Lubrication. W. M. Jewell. No. 1,350,551; Aug. 24; v. 277; p. 643.
Lubrication system. H. B. Taylor. No. 1,341,866; June 1; v. 275; p. 50.
Lubricator: *See*—
Automatic lubricator.
Automobile sightfeed lubricator.
Car-axle lubricator.
Driving-box lubricator.
Engine-lubricator.
Force-feed lubricator.
Journal-lubricator.
Meter-lubricator.
Oil-lubricator.
Sight-feed lubricator.
Siphon-lubricator.
Spring-lubricator.
Track-lubricator.
Vehicle-spring lubricator.
Wheel-lubricator.
Lubricator. F. V. Diard. No. 1,331,698; Feb. 24; v. 271; p. 561.
Lubricator. M. L. Donovan. No. 1,329,229; Jan. 27; v. 270; p. 568.
Lubricator. O. W. Doolittle. No. 1,348,551; Aug. 3; v. 277; p. 81.
Lubricator. P. and C. R. Dosch. No. 1,332,717; Mar. 2; v. 272; p. 104.
Lubricator. J. Erickson. No. 1,359,584; Nov. 23; v. 280; p. 616.
Lubricator. E. Frost. No. 1,353,951; Sept. 28; v. 278; p. 577.
Lubricator. L. S. Gambill. No. 1,360,207; Nov. 23; v. 280; p. 739.
Lubricator. H. C. Heath. No. 1,350,075; Aug. 17; v. 277; p. 503.
Lubricator. F. G. Hirst. No. 1,327,043; Jan. 6; v. 270; p. 31.
Lubricator. H. D. Kuhlman. No. 1,331,651; Feb. 24; v. 271; p. 552.
Lubricator. L. J. Mruk. No. 1,336,853; Apr. 13; v. 273; p. 278.
Lubricator. P. B. Sample. No. 1,333,451; Mar. 9; v. 272; p. 293.
Lubricator. S. J. Sharp. No. 1,328,209; Jan. 13; v. 270; p. 310.
Lubricator. A. A. Van Orsdale. No. 1,355,194; Oct. 12; v. 279; p. 201.
Lubricator. A. A. Van Orsdale. No. 1,355,195; Oct. 12; v. 279; p. 201.
Lubricator. J. T. Wallis. No. 1,337,494; Apr. 20; v. 273; p. 473.
Lubricators, Valved coupling for. H. H. Houghton. No. 1,342,678; June 8; v. 275; p. 260.
Lug-strap connection. L. Durand. No. 1,337,055; Apr. 13; v. 273; p. 317.
Lug-strap holder. F. B. Rand. No. 1,327,964; Jan. 13; v. 270; p. 264.
Lug-strap support. J. P. Smith. No. 1,339,295; May 4; v. 274; p. 118.
Luggage-carrier. W. W. Cameron. No. 1,328,316; Jan. 20; v. 270; p. 367.
Luggage-carrier. S. Hubka. No. 1,354,829; Oct. 5; v. 279; p. 76.
Luggage-carrier. F. T. Wentworth. No. 1,328,863; Jan. 27; v. 270; p. 499.
Luggage holder or carrier. S. W. Worthington. No. 1,356,328; Oct. 19; v. 279; p. 463.
Luggage-rack. C. F. Blake. No. 1,349,938; Aug. 17; v. 277; p. 477.
Luggage-rack, Detachable. J. C. F. Nyser. No. 1,331,354; Feb. 17; v. 271; p. 475.
Lumber branding and rebranding machine for planing mills and roller-beds. J. G. McDonough. No. 1,340,967; May 25; v. 274; p. 640.
Lumber composition. J. N. and W. J. Ehr and G. W. Mattison. No. 1,348,789; Aug. 3; v. 277; p. 127.
Lumber, Drying. F. K. Fish, Jr. No. 1,328,505; Jan. 20; v. 270; p. 403.
Lumber, Drying. F. K. Fish, Jr. No. 1,328,507; Jan. 20; v. 270; p. 404.
Lumber, Drying. F. K. Fish, Jr. No. 1,328,655; Jan. 20; v. 270; p. 431.
Lumber, Drying. F. K. Fish, Jr. No. 1,328,658; Jan. 20; v. 270; p. 431.
Lumber, Drying. F. K. Fish, Jr. No. 1,328,659; Jan. 20; v. 270; p. 432.
Lumber, Drying. F. K. Fish, Jr. No. 1,328,660; Jan. 20; v. 270; p. 432.
Lumber, Drying. F. K. Fish, Jr. No. 1,328,661; Jan. 20; v. 270; p. 432.
Lumber, Drying. F. K. Fish, Jr. No. 1,328,662; Jan. 20; v. 270; p. 432.
Lumber, Drying and curing. O. E. Jacobs. No. 1,333,848; Mar. 16; v. 272; p. 429.
Lumber-marking machine. J. G. McDonough. No. 1,340,966; May 25; v. 274; p. 640.
Lumber-piling device. F. E. Trefren. No. 1,343,799; June 15; v. 275; p. 546.
Luminous attachment. O. H. Van Amberg. No. 1,355,193; Oct. 12; v. 279; p. 201.
Luminous indicating device. V. C. Thorne. No. 1,342,777; June 8; v. 275; p. 281.
Luminous indicating device. V. C. Thorne. No. 1,342,778; June 8; v. 275; p. 281.
Luminous indicating device and making same. W. A. Schlesinger. No. 1,342,767; June 8; v. 275; p. 279.
Luminous locator or marker. F. W. Gay. No. 1,361,380; Dec. 7; v. 281; p. 80.
Luminous marking device. C. E. White. No. 1,346,360; July 13; v. 276; p. 266.
Lunch-box. F. Lewis. No. 1,346,220; July 13; v. 276; p. 237.
Lunch-box tray. W. H. Wilkie. No. 1,353,689; Sept. 21; v. 278; p. 483.
Lunch-chair. R. M. Keating. No. 1,344,901; June 29; v. 275; p. 891.
Lunch-room table. S. A. Hathorne. No. 1,357,050; Oct. 26; v. 279; p. 651.
Lunch-rooms, Self-waiting system for. D. D. Mayne. No. 1,330,890; Feb. 17; v. 271; p. 389.
Lye from wood-ashes, Apparatus for extracting. W. P. D. Moross and J. C. Costello. No. 1,328,096; Jan. 13; v. 270; p. 289.
Macaroni and other edible pastes, Drying. K. Gammel. No. 1,349,568; Aug. 17; v. 277; p. 406.
Macaroni-drying plant. G. Gentile. No. 1,333,406; Mar. 9; v. 272; p. 284.
Macaroni, Machine for making. J. Carlson and P. Pascucci. No. 1,331,183; Feb. 17; v. 271; p. 444.
Macaroni, Machine for making flat. L. De Vito. No. 1,332,435; Mar. 2; v. 272; p. 50.
Macerating and juice-straining system, Direct. A. Krafft. No. 1,353,349; Sept. 21; v. 278; p. 414.
Machine attachment. W. H. Moran. No. 1,341,066; May 25; v. 274; p. 659.
Machine, Core-making. R. C. Pattison. No. 1,363,911; Dec. 28; v. 281; p. 714.
Machine elements, Adjustable engaging device for. D. J. McCarthy. No. 1,333,500; Mar. 9; v. 272; p. 302.
Machine elements, Apparatus for sorting. C. T. Morey. No. 1,341,278; May 25; v. 274; p. 700.
Machine elements, Making. W. G. Doty. No. 1,348,158; Aug. 3; v. 277; p. 5.
Machine, Hand embroidery-. W. Cohen. No. 1,362,984; Dec. 21; v. 281; p. 494.
Machine having sliding carriage. C. Wales. No. 1,344,837; June 29; v. 275; p. 879.
Machine, Hydro-aero. G. H. Curtiss and W. L. Gilmore. No. 1,363,845; Dec. 28; v. 281; p. 702.
Machine-motor. F. J. Osius. No. 1,327,209; Jan. 6; v. 270; p. 62.
Machine or phonograph, Sound-reproducing. D. H. Wilson. No. 1,363,946; Dec. 28; v. 281; p. 721.
Machine, Pin cut-off and pointing. G. Lidseen. No. 1,363,797; Dec. 28; v. 281; p. 692.
Machine roller construction. Cloth-measuring-. W. E. Hosch. (Reissue.) No. 15,012; Dec. 21; v. 281; p. 539.
Machine safety-guard. W. A. Wiesman. No. 1,329,564; Feb. 3; v. 271; p. 41.
Machine-tool, Automatic. M. A. Wertman. No. 1,351,884; Sept. 7; v. 278; p. 35.
Machine-tool bed. P. V. Vernon. No. 1,339,937; May 11; v. 274; p. 298.
Machine-tool control. W. F. Mayer. No. 1,352,673; Sept. 14; v. 278; p. 222.
Machine-tools, Automatically cutting off feed-motion of. N. J. Olsson. No. 1,349,222; Aug. 10; v. 277; p. 264.
Machine-tools, Base and chip-pan for. W. F. Groene and W. G. Hoelscher. No. 1,363,969; Dec. 28; v. 281; p. 725.
Machine-tools, Feeding mechanism for. L. E. Waite. No. 1,340,584; May 18; v. 274; p. 497.
Machine-tools, Final adjusting device for. E. C. Head. No. 1,328,670; Jan. 20; v. 270; p. 434.
Machine-tools, Interchangeable positive and friction drive and reversible gearing for. E. C. Head. No. 1,349,958; Aug. 17; v. 277; p. 481.
Machine-tools, Means for automatically cutting off the feed-motion of. N. J. Olsson. No. 1,328,337; Jan. 20; v. 270; p. 371.
Machine-tools, Operating device for the turrets of. E. C. Head. No. 1,345,770; July 6; v. 276; p. 87.
Machine-tools, Quick-traverse mechanism for feeds for. L. E. Waite. No. 1,340,586; May 18; v. 274; p. 497.
Machine-tools, Spindle-driving mechanism for. L. E. Waite. No. 1,340,585; May 18; v. 274; p. 497.

Digitized by Google

Machine-tools, Work-holder for. W. Ruff. No. 1,357,518; Nov. 2; v. 280; p. 60.
Machine, Water-driven. P. O. Felt. No. 1,363,101; Dec 21; v 281; p. 517.
Machines, Trimming mechanism for sewing-. R. R Hughes, Jr. No. 1,363,652; Dec. 28; v. 281; p. 664.
Machinery-repair washer, Sectional. C. N. Barton. No. 1,327,417; Jan. 6; v. 270; p. 100.
Machinist's gage. C. Haley. No. 1,334,999; Mar. 30; v. 272; p. 752.
Magazine. T. H. Eickhoff. No. 1,350,646; Aug. 24; v. 277; p. 661.
Magazine. F. W. Hulse. No. 1,330,873; Feb. 17; v. 271; p. 386.
Magazine. C. A. Tunks. No. 1,349,350; Aug. 10; v. 277; p. 290.
Magazine-feed and gun for using same. C. De-Felice. No. 1,354,432; Sept. 28; v. 278; p. 676.
Magazine-holder, Visible-front. E. J. Muffley. No. 1,330,894; Feb. 17; v. 271; p. 390.
Magazine plate-holder. A. P. Hantsch. No. 1,357,164; Oct. 26; v. 279; p. 672.
Magazine-rocket. R. H. Goddard. No. 1,341,053; May 25; v. 274; p. 657.
Magnesia, Shrinking. L. E. Saunders. No. 1,352,388; Sept. 7; v. 278; p. 129.
Magnesium carbonate, Apparatus for manufacturing. B. B Grunwald. No. 1,361,325; Dec. 7; v. 281; p. 68.
Magnesium carbonate, Manufacturing. B. B. Grunwald. No. 1,361,324; Dec. 7; v. 281; p. 68.
Magnesium chlorid and the production of magnesium or alloys thereof and chlorin, Process and apparatus for the electrolytic decomposition of anhydrous. E. A. Ashcroft. No. 1,359,653; Nov. 23; v. 280; p. 629.
Magnesium chlorid, &c., Making. E. O. Barstow. No. 1,359,782; Nov. 23; v. 280; p. 656.
Magnesium chlorid, Making. H. H. Dow and E. O. Barstow. No. 1,336,425; Apr. 13; v. 273; p. 196.
Magnesium compounds, Purifying. C. E. Dolbear. No. 1,348,933; Aug. 10; v. 277; p. 207.
Magnesium from compounds and mixtures of magnesium and calcium carbonates. H. W. C. Annable. No. 1,347,610; July 27; v. 276; p. 628.
Magnesium from dolomite, Separating. A. M. Mitchell. No. 1,340,905; May 25; v. 274; p. 628.
Magnesium or alloys of magnesium and by-products, Production of. E. A. Ashcraft. No. 1,359,654; Nov. 23; v. 280; p. 629.
Magnesium powder, Apparatus for the manufacture of. D. S. Nicol. No. 1,356,780; Oct. 26; v. 279; p. 597.
Magnesium powder, Manufacture of. D. S. Nicol. No. 1,351,865; Sept. 7; v. 278; p. 31.
Magnesium sulfate, Making. W. R. Collings and J. A. Gann. No. 1,356,907; Oct. 26; v. 279; p. 623.
Magnet, Alternating-current. H. F. Stratton. No. 1,331,290; Feb. 17; v. 271; p. 463.
Magnet, Electromagnetic overload cut-out. P. G. van Wijk. No. 1,350,902; Aug. 24; v. 277; p. 709.
Magnet-holding means. T. G. Louis. No. 1,335,119; Mar. 30; v. 272; p. 775.
Magnet, Lifting-. H. G. Geissinger. No. 1,333,542; Mar. 9; v. 272; p. 311.
Magnet, Lifting-. F. I. Parker. No. 1,334,504; Mar. 23; v. 272; p. 508.
Magnets, Means for controlling the operative field of. H. S. Folker and D. M. Bidstrup. No. 1,334,531; Mar. 23; v. 272; p. 603.
Magnetic and electric polarity indicator, Combination. C. W. Eisenmann. No. 1,344,388; June 22; v. 275; p. 726.
Magnetic circuit, Homopolar. R. V. Morse. No. 1,327,349; Jan. 6; v. 270; p. 87.
Magnetic-circuit laminæ, Machine for cutting. C. H. Thordarson. No. 1,356,178; Oct. 19; v. 279; p. 434.
Magnetic contractor. H. L. Van Valkenburg. No. 1,341,867; June 1; v. 275; p. 50.
Magnetic intensifiers. C. B. Russell. No. 1,355,622; Oct. 12; v. 279; p. 284.
Magnetic machine. W. Brown. No. 1,330,165; Feb. 10; v. 271; p. 185.
Magnetic material, Apparatus for separating. E. Newton. No. 1,340,457; May 18; v. 274; p. 472.
Magnetic material, Method of and apparatus for separating. G. Ullrich. No. 1,360,601; Nov. 30; v. 280; p. 885.
Magnetic modulator. K. S. Van Dyke. No. 1,357,264; Nov. 2; v. 280; p. 12.
Magnetic separator. M. Dings. No. 1,349,501; Aug. 10; v. 277; p. 319.
Magnetizable material, Treating. T. D. Yensen. No. 1,358,810; Nov. 16; v. 280; p. 421.
Magneto. P. F. Bessy. No. 1,361,436; Dec. 7; v. 281; p. 92.
Magneto. R. G. L. Dusuzeau. No. 1,356,975; Oct. 26; v. 279; p. 636.
Magneto. H. F. Geist. No. 1,334,298; Mar. 23; v. 272; p. 559.
Magneto. P. J. R. Postel-Vinay. No. 1,334,675; Mar. 23; v. 272; p. 630.
Magneto. W. E. Schwarzmann. No. 1,344,723; June 29; v. 275; p. 856.
Magneto. J. R. Stark. No. 1,357,008; Oct. 26; v. 279; p. 642.
Magneto and semaphore switch, Plural-control. W. J. Newton. No. 1,357,585; Nov. 2; v. 280; p. 72.
Magneto construction, Waterproof. M. Feldine. No. 1,358,627; Nov. 9; v. 280; p. 339.
Magneto-coupling, Flexible adjustable. R. D. Hills. No. 1,340,610; May 18; v. 274; p. 502.
Magneto-frame. P. J. R. Postel-Vinay. No. 1,349,692; Aug. 17; v. 277; p. 430.
Magneto-generator. R. Varley. No. 1,332,652; Mar. 2; v. 272; p. 91.
Magneto with watertight casing. G. A. Chaillley. No. 1,336,196; Apr. 6; v. 273; p. 93.
Magnetos, Circuit-breaker for. P. Labrosse and F. Estève. No. 1,327,284; Jan. 6; v. 270; p. 75.
Magnetos, High-tension distributer for. W. E. Schwarzmann. No. 1,334,803; Mar. 23; v. 272; p. 655.
Magnetos, Safety spark-gap for. A. C. De Lorme. No. 1,353,566; Sept. 21; v. 278; p. 457.
Magnetos, Starter applicable to. H. Parkin. No. 1,328,892; Jan. 27; v. 270; p. 505.
Mail, Apparatus for sorting, postmarking, and canceling. W. H. Bowes. No. 1,349,940; Aug. 17; v. 277; p. 477.
Mail-bag. T. C. Sheppard. No. 1,354,581; Oct. 5; v. 279; p. 27.
Mail-bag catcher. R. H. Barnitz. No. 1,362,463; Dec. 14; v. 281; p. 341.
Mail-bag catcher. J. M. Williams and V. E. Smith. No. 1,348,071; July 27; v. 276; p. 721.
Mail-bag catcher and deliverer. S. Misco. No. 1,336,851; Apr. 13; v. 273; p. 278.
Mail-bag crane. E. G. Livesay. No. 1,344,912; June 29; v. 275; p. 893.
Mail-bag deliverer and receiver. R. Pittman. No. 1,361,179; Dec. 7; v. 281; p. 39.
Mail-bag transfer mechanism. R. W. Horton and J. E. Molesworth. No. 136,729; Dec. 7; v. 281; p. 150.
Mail-bag-transferring device. M. J. Kissel. No. 1,338,228; Apr. 27; v. 273; p. 683.
Mail-box. M. D. McMillan. No. 1,360,964; Nov. 30; v. 280; p. 955.
Mail-box. O. R. Payne. No. 1,350,515; Aug. 24; v. 277; p. 636.
Mail-box. W. B. and V. D. Smith. No. 1,342,468; June 8; v. 275; p. 220.
Mail-box. W. F. Walker. No. 1,344,281; June 22; v. 275; p. 704.
Mail-box and door-bell, Combined. J. A. McDonald. No. 1,327,957; Jan. 13; v. 270; p. 262.
Mail-box and other device. D. A. Doran. No. 1,349,413; Aug. 10; v. 277; p. 302.
Mail-box bracket. C. A. McIntosh. No. 1,358,322; Nov. 9; v. 280; p. 277.
Mail-box installation, Rural. C. Murray. No. 1,337,089; Apr. 13; v. 273; p. 323.
Mail-box, Rural. P. V. Brazill. No. 1,336,417; Apr. 13; v. 273; p. 195.
Mail-box, Rural. L. C. Eastman. No. 1,332,818; Mar. 2; v. 272; p. 128.
Mail-box signal. F. F. Mackey. No. 1,334,106; Mar. 16; v. 272; p. 477.
Mail-box signal device. J. H. Runkle, Jr. No. 1,346,789; July 13; v. 276; p. 351.
Mail-box support, Community-. W. B. Bates and E. L. Stone. No. 1,350,770; Aug. 24; v. 277; p. 686.
Mail-box support or holder, Rural-. M. L. Vick. No. 1,340,426; May 18; v. 274; p. 467.
Mail-carrier, Electric. G. Jones. No. 1,358,557; Nov. 9; v. 280; p. 325.
Mail-carrier for sea delivery service. W. Grunow. No. 1,357,862; Nov. 2; v. 280; p. 126.
Mail carrier or container. L. H. Blocker. No. 1,338,066; Apr. 27; v. 273; p. 652.
Mail-catcher. F. E. Coyne. No. 1,330,305; Feb. 10; v. 271; p. 210.
Mail catching and delivering apparatus. A. Sussiln. No. 1,347,418; July 20; v. 276; p. 533.
Mail catching and delivering apparatus, Automatic. M. and A. T. Boom. No. 1,329,576; Feb. 3; v. 271; p. 44.
Mail-chute. F. B. Cook. No. 1,338,975; May 4; v. 274; p. 60.
Mail-chute. F. B. Cook. No. 1,338,976; May 4; v. 274; p. 60.
Mail-chute. F. J. Wuesthoff. (Reissue.) No. 14,854; May 4; v. 274; p. 135.
Mail-chute. F. J. Wuesthoff. (Reissue.) No. 14,855; May 4; v. 274; p. 136.
Mail-crane. G. J. Barry. No. 1,357,213; Nov. 2; v. 280; p. 3.
Mail-crane and operating means therefor. G. J. Barry. No. 1,360,354; Nov. 30; v. 280; p. 836.
Mail-delivering apparatus, Railway. O. M. Gilbertson. No. 1,353,738; Sept. 21; v. 278; p. 492.
Mail delivery and receiving device. R. Lemmer. No. 1,362,806; Dec. 21; v. 281; p. 461.
Mail-delivery apparatus. J. Rushing. No. 1,340,840; May 18; v. 274; p. 544.
Mail-delivery, Railway. H. E. Smith. No. 1,353,284; Sept. 21; v. 278; p. 401.
Mail-distributing device. R. J. and I. W. H. Hankins. No. 1,340,046; May 11; v. 274; p. 387.
Mail-exchange, Aerial. W. H. Burton and C. J. Wilkerson. No. 1,338,970; May 4; v. 274; p. 59.
Mail-handling apparatus. T. Grubb. No. 1,346,018; July 6; v. 276; p. 136.
Mail-indicator, Electric. F. J. Otto. No. 1,336,652; Apr. 13; v. 273; p. 239.

Digitized by Google

Mail-marking machine and postage-meter. A. H. Pitney. (Reissue.) No. 14,916; July 13; v. 276; p. 355.
Mail-opening and door-knocker, Combined. T. H. Pegnam. No. 1,349,731; Aug. 17; v. 277; p. 438.
Mail pouches or bags, Locking device for. J. Kabaci. No. 1,351,388; Aug. 31; v. 277; p. 869.
Mail-receptacle, House. W. H. Martin. No. 1,359,412; Nov. 16; v. 280; p. 537.
Mail-transferring apparatus. E. A. Rashell. No. 1,337,956; Apr. 20; v. 273; p. 562.
Mailer-strips and proof-sheets, Hand-printer for. L. W. Millsap, Jr. No. 1,338,642; Apr. 27; v. 273; p. 759.
Mailing-box, Cardboard. F. W. Clary. No. 1,361,965; Dec. 14; v. 281; p. 244.
Mailing device. S. A. Markoff. No. 1,346,502; July 13; v. 276; p. 294.
Mailing-frame. F. C. Greble. No. 1,347,269; July 20; v. 276; p. 504.
Mailing-receptacle. W. T. James. No. 1,363,252; Dec. 28; v. 281; p. 587.
Mailing sheet or blank. W. E. Swift. No. 1,343,419; June 15; v. 275; p. 470.
Mandolin or guitar variety, Stringed instrument of the. G. H. Irwin and F. A. Martin. No. 1,355,977; Oct. 19; v. 279; p. 392.
Mandrel. A. W. Clauder. No. 1,357,953; Nov. 9; v. 280; p. 205.
Mandrel, Box-. M. B. Diskin. No. 1,343,907; June 22; v. 275; p. 632.
Mandrel, Can-forming. J. S. Wentworth. No. 1,342,575; June 8; v. 275; p. 241.
Mandrel, Dental. J. H. Abbott. No. 1,333,054; Mar. 9; v. 272; p. 219.
Mandrel, Expanding. M. E. Moore. No. 1,343,273; June 15; v. 275; p. 442.
Mandrel, Expansion-. E. G. Rider. No. 1,327,445; Jan. 6; v. 270; p. 105.
Mandrel for forming receptacles from fibrous material. M. E. Hanson. No. 1,358,635; Nov. 9; v. 280; p. 341.
Mandrel-press. F. Burtt. No. 1,356,905; Oct. 26; v. 279; p. 622.
Manganates, Making. H. McCormack. No. 1,337,239; Apr. 20; v. 273; p. 425.
Manganates, Making. C. E. Vanderkleed. No. 1,339,242; May 4; v. 274; p. 109.
Manganese-containing body, Producing. A. A. Wells. No. 1,359,640; Nov. 23; v. 280; p. 627.
Manganese or alloys of manganese, Producing. B. M. S. Kalling and S. D. Danieli. No. 1,363,657; Dec. 28; v. 281; p. 665.
Manganese, Producing oxid or oxids of. B. F. Lovelace. No. 1,352,208; Sept. 7; v. 278; p. 95.
Manger-partition. J. M. B. Lewis. No. 1,337,926; Apr. 20; v. 273; p. 556.
Mangle. W. J. Asher. No. 1,354,871; Oct. 5; v. 279; p. 85.
Mangles, Safety device for. W. J. Asher. No. 1,354,872; Oct. 5; v. 279; p. 85.
Manhole. A. Davis, Jr. No. 1,329,040; Jan. 27; v. 270; p. 533.
Manhole construction. I. C. Forshee. No. 1,350,306; Aug. 24; v. 277; p. 594.
Manicuring device. W. Foggie. No. 1,345,918; July 6; v. 276; p. 116.
Manicuring implement. H. H. Chandler. No. 1,362,601; Dec. 21; v. 281; p. 420.
Manifold. H. T. Kraft. No. 1,362,578; Dec. 14; v. 281; p. 364.
Manifold for internal-combustion engines, Intake-. E. E. Barto. No. 1,359,314; Nov. 16; v. 280; p. 517.
Manifold-heater. E. Bowman. No. 1,358,414; Nov. 9; v. 280; p. 297.
Manifold-heater. F. D. Goodlake. No. 1,346,745; July 13; v. 276; p. 342.
Manifold-heater. C. S. Horton. No. 1,340,770; May 18; v. 274; p. 531.
Manifold-heater. J. I. Richey. No. 1,362,353; Dec. 14; v. 281; p. 320.
Manifold-heater. H. D. Workman and W. S. Smith. No. 1,358,912; Nov. 16; v. 280; p. 441.
Manifolding device. W. J. Wiswall. No. 1,349,865; Aug. 17; v. 277; p. 463.
Manifolding machine. A. Krauth. No. 1,333,082; Mar. 9; v. 272; p. 225.
Manifolding-machine. A. Krauth. No. 1,333,083; Mar. 9; v. 272; p. 225.
Manifolding-machine. A. Krauth. No. 1,338,140; Apr. 27; v. 273; p. 666.
Manifolding-machines, Paper-feed for. E. W. Hart. No. 1,363,508; Dec. 28; v. 281; p. 636.
Manifolding medium. M. L. Cossitt. No. 1,353,149; Sept. 21; v. 278; p. 375.
Manipulator. W. Forsstrom. No. 1,360,106; Nov. 23; v. 280; p. 719.
Manometer. E. Szekely. No. 1,352,038; Sept. 7; v. 278; p. 63.
Manometer, Ionization-. S. Dushman. No. 1,334,143; Mar. 16; v. 272; p. 485.
Manometer-tube trap. G. Cornett and C. W. Stancliffe. No. 1,354,023; Sept. 28; v. 278; p. 592.
Mantle-ring-forming machine. H. J. Green. No. 1,345,845; July 6; v. 276; p. 101.
Manure and straw spreader, Combination. H. L. Litchfield. No. 1,347,583; July 27; v. 276; p. 623.
Manure-box. M. Levin. No. 1,327,397; Jan. 6; v. 270; p. 96.
Manure-carriers, Trip for. A. Snesrud. No. 1,355,860; Oct. 19; v. 279; p. 370.
Manure-conveyer. H. F. Hensel and W. J. Stake. No. 1,342,217; June 1; v. 275; p. 119.
Manure-loader. A. Hossfeld. No. 1,345,088; June 29; v. 275; p. 926.
Manure-loader. E. Kernen. No. 1,339,263; May 4; v. 274; p. 113;
Manure loader and spreader, Combined. H. H. Varland. No. 1,346,433; July 13; v. 276; p. 280.
Manure-spreader. E. W. Burgess. No. 1,328,709; Jan. 20; v. 270; p. 441.
Manure-spreader. W. J. Cook. No. 1,350,296; Aug. 24; v. 277; p. 592.
Manure-spreaders, Attachment for. A. E. Brichacek. No. 1,342,249; June 1; v. 275; p. 125.
Manuscript form, Method and apparatus for teaching. E. R. Garfield. No. 1,328,952; Jan. 27; v. 270; p. 516.
Manuscript, typewritten or printed matter, drawings, photographs, &c., Reproducing. S. J. Waters. No. 1,327,931; Jan. 13; v. 270; p. 258.
Map and making same, Relief-. L. B. Manheimer. No. 1,351,392; Aug. 31; v. 277; p. 870.
Map-case. A. E. Allen. No. 1,329,875; Feb. 3; v. 271; p. 99.
Marble-shooter. A. E. Madison. No. 1,337,934; Apr. 20; v. 273; p. 558.
Marble, stone, &c., Compound for cleaning. R. T. Conlon. No. 1,335,317; Mar. 30; v. 272; p. 812.
Marcel iron. F. E. Russell. No. 1,330,350; Feb. 10; v. 271; p. 219.
Margarin, Crystallizing. A. C. A. Zeuthen and M. Larsen. No. 1,345,657; July 6; v. 276; p. 64.
Marine boiler. J. E. Bell. No. 1,332,969; Mar. 9; v. 272; p. 204.
Marine boiler. J. E. Bell. No. 1,349,869; Aug. 17; v. 277; p. 464.
Marine condenser. R. N. Ehrhart. No. 1,352,440; Sept. 14; v. 278; p. 174.
Marine propulsion. T. R. de Esparza. No. 1,329,228; Jan. 27; v. 270; p. 568.
Marine propulsion. H. F. Schmidt. No. 1,358,469; Nov. 9; v. 280; p. 308.
Marine propulsion system. A. Conti. No. 1,342,797; June 8; v. 275; p. 286.
Marionette. M. M. Dondo. No. 1,350,711; Aug. 24; v. 277; p. 674.
Marker. C. A. Fischer. No. 1,336,029; Apr. 6; v. 273; p. 62.
Marker. G. Perry No. 1,329,428; Feb. 3; v. 271; p. 16.
Marker, Skin-. O. H. Foss. No. 1,363,104; Dec. 21; v. 281; p. 518.
Marker. J. Swanson. No. 1,333,514; Mar. 9; v. 272; p. 305.
Marker, Chipper's guide-. C. B. Mathews. No. 1,327,874; Jan. 13; v. 270; p. 247.
Marker, Grave-. W. F. Norman. (Reissue.) No. 14,827; Mar. 30; v. 272; p. 887.
Marker, Highway-. F. W. Hockaday. No. 1,327,387; Jan. 6; v. 270; p. 94.
Marking apparatus. W. C. Morgans. No. 1,363,897; Dec. 28; v. 281; p. 712.
Marking cattle and other animals, Instrument for. Z. C. Ketchum. No. 1,361,338; Dec. 7; v. 281; p. 72.
Marking device. G. J. Anderson and W. R. Smith. No. 1,343,073; June 8; v. 275; p. 340.
Marking device. C. M. Gravatt. No. 1,353,742; Sept. 21; v. 278; p. 493.
Marking device. J. H. Miller. No. 1,335,125; Mar. 30; v. 272; p. 776.
Marking device. W. T. Seitz. No. 1,351,070; Aug. 31; v. 277; p. 805.
Marking device. C. E. Swick. No. 1,356,667; Oct. 26; v. 279; p. 576.
Marking device, Skin-. O. H. Foss. No. 1,363,105; Dec. 21; v. 281; p. 518.
Marking-machine. W. M. Ingram. No. 1,331,924; Feb. 24; v. 271; p. 604.
Marking-machine. R. L. Skinner. No. 1,362,443; Dec. 14; v. 281; p. 337.
Marking-machine. E. W. Smith. No. 1,360,460; Nov. 30; v. 280; p. 857.
Marking-machines, Printing-head for. C. F. Robbins. No. 1,341,021; May 25; v. 274; p. 650.
Marking or stamping device, Automatic. S. G. McPheters. No. 1,343,633; June 15; v. 275; p. 512.
Marking materials, Machine for. N. V. Dyer. No. 1,360,379; Nov. 30; v. 280; p. 841.
Marks to articles, Machine for applying. F. G. Neal. No. 1,339,857; May 11; v. 274; p. 302.
Mashing. C. B. Davis. No. 1,328,079; Jan. 13; v. 270; p. 286.
Mashing and mixing machine. R. C. Cox and J. F. McGinnitey. No. 1,351,890; Sept. 7; v. 278; p. 36.
Mask, Face-. D. De Rosier. No. 1,342,897; June 8; v. 275; p. 305.
Mask, Face-. D. De Rosier. No. 1,342,898; June 8; v. 275; p. 305.
Mask, Gas-. E. W. Miller. No. 1,348,819; Aug. 3; v. 277; p. 132.

Digitized by Google

Mask, Mosquito. P. Dowd. No. 1,342,277; June 1; v. 275; p. 130.
Mask, Open-face gas-. G. A. Mickelson. No. 1,344,349; June 22; v. 275; p. 718.
Masonry wall and insert therefor. E. Weil. No. 1,331,834; Feb. 24; v. 271; p. 587.
Massage device. W. M. Chadwick. No. 1,343,432; June 15; v. 275; p. 473.
Massage implement. F. Conill. No. 1,349,495; Aug. 10; v. 277; p. 318.
Massage implement, Combination faradic and vibratory. E. M. Kojima. No. 1,338,020; Apr. 27; v. 273; p. 643.
Massage-meter device. H. H. Knipe. No. 1,348,499; Aug. 3; v. 277; p. 71.
Massage-vibrator. P. J. Fitzgerald. No. 1,327,466; Jan. 6; v. 270; p. 109.
Massager and strengthener, Foot. M. H. Mount. No. 1,345,096; June 29; v. 275; p. 927.
Massaging-machine. A. Straessle. No. 1,353,809; Sept. 21; v. 278; p. 505.
Mast, Extensible. B. F. Seymour. No. 1,342,828; June 8; v. 275; p. 291.
Mast, Knockdown. G. F. Gray. No. 1,342,847; June 8; v. 275; p. 295.
Mat: *See*—
Breach-mat. Moisture-proof mat.
Door-mat. Rotary mat.
Foot-mat. Stove-mat.
Mat. W. W. Karro. No. 1,361,069; Dec. 7; v. 281; p. 18.
Mat, &c. H. C. Egerton. No. 1,352,733; Sept. 14; v. 278; p. 234.
Mats of fibrous material, Production of. H. F. Weiss. No. 1,336,402; Apr. 6; v. 273; p. 132.
Matting and in looms therefor, Manufacture of coir-yarn. E. J. Entwisle. No. 1,355,320; Oct. 12; v. 279; p. 226.
Match-box. F. J. Kristofek. No. 1,341,139; May 25; v. 274; p. 673.
Match-box. F. J. Kristofek. No. 1,341,140; May 25; v. 274; p. 673.
Match-box. M. D. Maloney. No. 1,350,977; Aug. 24; v. 277; p. 724.
Match-box. H. Pick. No. 1,329,012; Jan. 27; v. 270; p. 527.
Match-box. W. J. Prevost. No. 1,340,980; May 25; v. 274; p. 643.
Match-box. E. Revega. No. 1,342,695; June 8; v. 275; p. 264.
Match-box. W. Rumble, Jr. No. 1,341,074; May 25; v. 274; p. 661.
Match-box. S. Slobodzian and J. Oberleytan. No. 1,359,759; Nov. 23; v. 280; p. 651.
Match-box. W. G. Wemmell. No. 1,344,746; June 29; v. 275; p. 861.
Match-box. J. M. Weremko. No. 1,349,243; Aug. 10; v. 277; p. 269.
Match-box. L. Yody. No. 1,328,703; Jan. 20; v. 270; p. 440.
Match-box, Combination. J. Maloy. No. 1,361,268; Dec. 7; v. 281; p. 57.
Match-box container. F. B. Rinker. No. 1,362,820; Dec. 21; v. 281; p. 463.
Match-box holder. T. P. Ambrose. No. 1,331,231; Feb. 17; v. 271; p. 453.
Match-box holder. M. Dettman. No. 1,343,354; June 15; v. 275; p. 457.
Match-box, Single-delivery. F. J. Scholz. No. 1,350,886; Aug. 24; v. 277; p. 707.
Match-boxing attachment. G. Lispenard. No. 1,336,245; Apr. 6; v. 273; p. 102.
Match-boxing machine. C. W. Van Vleet. No. 1,345,420; July 6; v. 276; p. 18.
Match-comb. L. J. Peters. No. 1,330,279; Feb. 10; v. 271; p. 206.
Match-container. H. Humm. No. 1,335,970; Apr. 6; v. 273; p. 51.
Match-head composition. W. A. Fairburn. No. 1,360,283; Nov. 30; v. 280; p. 823.
Match-head composition. J. R. Mardick. No. 1,329,537; Feb. 3; v. 271; p. 37.
Match-head composition and making same. W. A. Fairburn. No. 1,360,282; Nov. 30; v. 280; p. 823.
Match-heads, Treating. W. A. Fairburn. No. 1,332,438; Mar. 2; v. 272; p. 51.
Match-holder. J. E. Neahr. No. 1,351,340; Aug. 31; v. 277; p. 859.
Match-holder. M. L. Rau No. 1,357,250; Nov. 2; v. 280; p. 10.
Match-holder. C. Thomae. No. 1,362,371; Dec. 14; v. 281; p. 324.
Match-igniting device. J. E. Neahr. No. 1,330,895; Feb. 17; v. 271; p. 390.
Match-igniting device. J. E. Neahr. No. 1,338,692; May 4; v. 274; p. 8.
Match-ignition composition. W. H. Dixon. No. 1,341,012; May 25; v. 274; p. 649.
Match-lighter. J. A. Cunningham. No. 1,341,785; June 1; v. 275; p. 34.
Match-lighter. E. J. Fisher. No. 1,339,185; May 4; v. 274; p. 99.
Match-lighter. M. E. Hill. No. 1,336,698; Apr. 13; v. 273; p. 248.
Match-machine. W. B. Hutchinson and S. M. Friede. No. 1,334,155; Mar. 16; v. 272; p. 487.
Match-machine attachment. G. Lispenard. No. 1,336,244; Apr. 6; v. 273; p. 102.
Match-machine hoppers, Pin-gate for. G. Lispenard. No. 1,336,247; Apr. 6; v. 273; p. 103.
Match-machines, Registering attachment for. G. Lispenard. No. 1,336,246; Apr. 6; v. 273; p. 102.
Match-machines, Splint-feeding mechanism for. M. Paridon. No. 1,348,181; Aug. 3; v. 277; p. 10.
Match-making machine. W. Wheal. No. 1,337,109; Apr. 13; v. 273; p. 327.
Match-pocket. A. W. Graham. No. 1,351,241; Aug. 31; v. 277; p. 839.
Match-receptacle. O. Ellison. No. 1,345,078; June 29; v. 275; p. 924.
Match-receptacle. H. Hansen. No. 1,335,234; Mar. 30; v. 272; p. 796.
Match-safe. G. C. Brown. No. 1,327,458; Jan. 6; v. 270; p. 107.
Match-safe. J. E. Neahr. No. 1,334,961; Mar. 30; v. 272; p. 744.
Match-safe. B. R. Russell. No. 1,328,968; Jan. 27; v. 270; p. 519.
Match safe and igniting device, Combined. J. E. Neahr. No. 1,335,012; Mar. 30; v. 272; p. 755.
Match-scratcher. W. P. Hall. No. 1,347,948; July 27; v. 276; p. 695.
Match-scratcher. J. E. High. No. 1,338,920; May 4; v. 274; p. 50.
Match-strike. P. H. Lettré. No. 1,327,244; Jan. 6; v. 270; p. 88.
Matches and splints, Assembling-machine for. M. Paridon. No. 1,329,061; Jan. 27; v. 270; p. 537.
Matches, Card-. C. L. Pfersch. No. 1,339,975; May 11; v. 274; p. 324.
Matches for splints, Assembling-machine for. M. Paridon. No. 1,329,060; Jan. 27; v. 270; p. 536.
Matches, Machinery for making book-. M. Paridon. No. 1,360,439; Nov. 30; v. 280; p. 853.
Matches, Producing damp-proof. R. Dubrisay. No. 1,363,095; Dec. 21; v. 281; p. 516.
Material-transferring apparatus. E. G. Carr. No. 1,349,813; Aug. 17; v. 277; p. 453.
Mathematical instrument. J. Puring. No. 1,346,250; July 13; v. 276; p. 243.
Matrix-bands, Device for supporting and adjusting. I. Borkin. No. 1,359,665; Nov. 23; v. 280; p. 632.
Matrix-carriers, Case for. W. H. Welsh. No. 1,350,758; Aug. 24; v. 277; p. 683.
Matrix setting and distributing machine. J. Dorneth. No. 1,350,793; Aug. 24; v. 277; p. 690.
Matter, Composition of. F. S. Benenati. No. 1,331,690; Feb. 24; v. 271; p. 559.
Matter, Composition of. M. A. Carter. No. 1,348,479; Aug. 3; v. 277; p. 68.
Matter, Composition of. C. L. Gebauer. No. 1,346,192; July 13; v. 276; p. 232.
Matter, Composition of. A. L. Straus. No. 1,339,528; May 11; v. 274; p. 239.
Mattress. L. J. Bennett. No. 1,355,729; Oct. 12; v. 279; p. 304.
Mattress. E. Erik, *née* Radstaake. No. 1,350,333; Aug. 24; v. 277; p. 600.
Mattress. E. E. Gundlach. No. 1,351,166; Aug. 31; v. 277; p. 823.
Mattress. W. L. Hawn. No. 1,328,248; Jan. 13; v. 270; p. 318.
Mattress. C. Hobert. No. 1,356,148; Oct. 19; v. 279; p. 427.
Mattress. F. Hoffmann. No. 1,335,965; Apr. 6; v. 273; p. 50.
Mattress and cushion filling. M. L. Maussner. No. 1,335,289; Mar. 30; v. 272; p. 806.
Mattress and making same. L. J. Bennett. No. 1,355,730; Oct. 12; v. 279; p. 304.
Mattress and pillow, Combination. J. Goldner. No. 1,359,801; Nov. 23; v. 280; p. 659.
Measuring and registering fluids, Device for. A. Wunderlich. No. 1,331,552; Feb. 24; v. 271; p. 533.
Mattress and upholstering construction. C. C. Meutsch. No. 1,333,031; Mar. 9; v. 272; p. 215.
Mattress-frame, Spring. R. Bradshaw. No. 1,360,173; Nov. 23; v. 280; p. 733.
Mattress-guard. M. Winstein. No. 1,346,579; July 13; v. 276; p. 309.
Mattress-holder. C. A. Van Demark. No. 1,336,003; Apr. 6; v. 273; p. 57.
Mattress, Hospital-. P. F. King. No. 1,341,564; May 25; v. 274; p. 756.
Mattress, Hospital bed-. G. H. Amey. No. 1,347,666; July 27; v. 276; p. 639.
Mattress, Non-stretchable. C. Z. Hermann. No. 1,333,979; Mar. 16; v. 272; p. 453.
Mattress, Sanitary. C. S. Cooper. No. 1,339,880; May 11; v. 274; p. 306.
Mattress, Spring-. F. Karr. No. 1,337,320; Apr. 20; v. 273; p. 441.
Mattress-support. F. I. Monks. No. 1,353,260; Sept. 21; v. 278; p. 397.
Mattress-tufting machine. J. W. Bowersox. No. 1,344,605; June 22; v. 275; p. 769.
Mattresses, Sanitary cover-pad for. J. W. and M. B. Callahan. No. 1,339,738; May 11; v. 274; p. 279.

Digitized by Google

Alphabetical list of inventions—Continued.

Mausoleum. W. W. Boughton. No. 1,333,602; Mar. 16; v. 272; p. 382.
Mausoleum. G. C. Kennedy. No. 1,333,423; Mar. 9; v. 272; p. 288.
Mausoleum construction. W. E. Hughes, and J. B. King. No. 1,342,812; June 8; v. 275; p. 288.
Mausoleums, Promoting body preservation in. O. V. Martin. No. 1,338,579; Apr. 27; v. 273; p. 748.
Mausoleums, Wall construction for. W. E. Hughes and J. B. King. No. 1,340,656; May 18; v. 274; p. 510.
Mayonnaise-mixer. J. W. Dailey. No. 1,361,368; Dec. 7; v. 281; p. 78.
Mayonnaise or salad dressing. H. Jaeger and W. Kuensler. No. 1,354,564; Oct. 5; v. 279; p. 28.
Meal-cookers, Controlling mechanism for. K. C. Barton. No. 1,349,143; Aug. 10; v. 277; p. 248.
Means for presenting geographical, and statistical information. G. W. R. Harriman. No. 1,362,939; Dec. 21; v. 281; p. 485.
Measure. J. D. Lewis. No. 1,347,465; July 20; v. 276; p. 542.
Measure and funnel combined, Sanitary. J. F. Johnson. No. 1,327,389; Jan. 6; v. 270; p. 95.
Measure, Oil-. C. E. Hanes. No. 1,327,156; Jan. 6; v. 270; p. 52.
Measure, Rouge-powder. W. G. Kendall. No. 1,340,275; May 18; v. 274; p. 437.
Measurer, Foot-. E. L. Hine. No. 1,359,375; Nov. 16; v. 280; p. 529.
Measuring and computing machine, Fabric. W. E. Hosch. No. 1,336,230; Apr. 6; v. 273; p. 99.
Measuring and cost-computing machine, Fabric-. L. Ehrlich. No. 1,339,748; May 11; v. 274; p. 281.
Measuring and cutting mechanism. J. L. Mueller. No. 1,353,661; Sept. 21; v. 278; p. 477.
Measuring and cutting ribbon, Machine for. I. Antman. No. 1,348,976; Aug. 10; v. 277; p. 216.
Measuring and delivering bin for potatoes. J. E. Jewell. No. 1,351,251; Aug. 31; v. 277; p. 841.
Measuring and dispensing device. W. S. Shaw. No. 1,360,455; Nov. 30; v. 280; p. 356.
Measuring and hoisting apparatus. C. P. Wilson. No. 1,363,029; Dec. 21; v. 281; p. 503.
Measuring and indicating apparatus. H. Brewer. No. 1,361,362; Dec. 7; v. 281; p. 76.
Measuring and indicating apparatus. H. Brewer. No. 1,361,676; Dec. 7; v. 281; p. 140.
Measuring and indicating mechanism, Fluid. A. Stuber. No. 1,355,183; Oct. 12; v. 279; p. 199.
Measuring angular displacements, Means for. P. Leboucher. No. 1,331,069; Feb. 17; v. 271; p. 424.
Measuring apparatus and measuring-tools, Indicating device for. C. E. Johansson and F. G. H. Sjökvist. No. 1,334,955; Mar. 30; v. 272; p. 748.
Measuring apparatus, Electrical. O. B. Blackwell, T. Shaw, and C. J. Koukol. No. 1,329,949; Feb. 3; v. 271; p. 43.
Measuring apparatus, Indicating device for. P. M. F. Dugit-Gras, called M. Dugit. No. 1,361,697; Dec. 7; v. 281; p. 144.
Measuring apparatus, Liquid-. A. Stuber. No. 1,361,641; Dec. 7; v. 281; p. 133.
Measuring apparatus, Liquid-. E. E. Winkley. No. 1,330,994; Feb. 17; v. 271; p. 409.
Measuring apparatus, Tip-. B. D. Bohanon. No. 1,346,167; July 13; v. 276; p. 227.
Measuring appliance, Automatic liquid-. L. M. Smith. No. 1,335,800; Apr. 6; v. 273; p. 18.
Measuring appliance, Automatic milk-. J. C. Cawsey. No. 1,351,284; Aug. 31; v. 277; p. 848.
Measuring-calipers. K. E. Solberg. No. 1,351,804; Sept. 7; v. 278; p. 17.
Measuring-can, Swing-spout. J. A. Hoyt. No. 1,330,537; Feb. 10; v. 271; p. 254.
Measuring device. F. B. Bell. No. 1,332,594; Mar. 2; v. 272; p. 80.
Measuring device. W. G. Bews. No. 1,332,158; Feb. 24; v. 271; p. 647.
Measuring device. N. C. Butler. No. 1,345,071; June 29; v. 275; p. 923.
Measuring device. D. M. Frye, Jr. No. 1,348,861; Aug. 10; v. 277; p. 193.
Measuring device. J. Van Geem. No. 1,359,004; Nov. 16; v. 280; p. 458.
Measuring device, Cloth-. L. P. Dunkelberger. No. 1,337,891; Apr. 20; v. 273; p. 549.
Measuring device, Fluid-. J. C. Moore. No. 1,358,771; Nov. 16; v. 280; p. 413.
Measuring device, Fluid-. A. B. Wood. No. 1,339,909; May 11; v. 274; p. 311.
Measuring device, Fluid-. A. B. Wood. No. 1,339,997; May 11; v. 274; p. 328.
Measuring device, Foot-. A. P. Phillips. No. 1,331,823; Feb. 24; v. 271; p. 585.
Measuring device for liquid-receptacles, Discharge-. W. P. Blake. No. 1,359,661; Nov. 23; v. 280; p. 631.
Measuring device, Illumination-. W. Harrison. No. 1,331,062; Feb. 17; v. 271; p. 422.
Measuring device, Liquid-. J. D. Meredith. No. 1,341,189; May 25; v. 274; p. 683.
Measuring device, Liquid-. W. Rose. No. 1,327,686; Jan. 13; v. 270; p. 212.

Measuring device, Rope-. F. A. Ellis, Jr. No. 1,340,218; May 18; v. 274; p. 427.
Measuring device, Rope-. F. Thiel. No. 1,350,894; Aug. 24; v. 277; p. 708.
Measuring device, Thread-. G. A. Schick. No. 1,329,933; Feb. 3; v. 271; p. 110.
Measuring device, Time-. C. Haas. No. 1,337,014; Apr. 13; v. 273; p. 309.
Measuring dial or indicator. C. G. Richardson. No. 1,357,904; Nov. 2; v. 280; p. 134.
Measuring heat, Method and apparatus for. J. P. O'Hern. No. 1,344,813; June 29; v. 275; p. 875.
Measuring fluid depths, Method and mechanism for. S. M. Viele. No. 1,352,565; Sept. 14; v. 278; p. 200.
Measuring-indicator. C. G. Richardson. No. 1,357,903; Nov. 2; v. 280; p. 134.
Measuring instrument. E. H. Bristol. No. 1,340,148; May 18; v. 274; p. 415.
Measuring instrument. O. H. Civitts. No. 1,331,415; Feb. 17; v. 271; p. 487.
Measuring instrument. W. H. Field, Jr. No. 1,342,992; June 8; v. 275; p. 324.
Measuring instrument. H. F. Gallagher. No. 1,346,646; July 13; v. 276; p. 322.
Measuring instrument. A. N. Hill. No. 1,328,876; Jan. 27; v. 270; p. 502.
Measuring instrument. F. O. Jaques, Jr. No. 1,357,323; Nov. 2; v. 280; p. 24.
Measuring instrument. C. F. Larson. No. 1,333,926; Mar. 16; v. 272; p. 443.
Measuring instrument. A. Roesch. No. 1,351,130; Aug. 31; v. 277; p. 817.
Measuring instrument. J. Swartz. No. 1,329,729; Feb. 3; v. 271; p. 71.
Measuring instrument, Angle-. A. Berg. No. 1,341,036; May 25; v. 274; p. 653.
Measuring instrument, Electrical. C. B. Berst. No. 1,335,152; Mar. 30; v. 272; p. 782.
Measuring instrument, Electrical. W. M. Bradshaw and W. G. Wylie. No. 1,336,611; Apr. 13; v. 273; p. 231.
Measuring instrument, Electrical. B. H. Smith. No. 1,355,515; Oct. 12; v. 279; p. 263.
Measuring instrument, Fluid-pressure-. R. J. Nash and G. H. Alexander. No. 1,345,870; July 6; v. 276; p. 106.
Measuring instrument, Interpupillary-distance-. H. B. Mathewson and K. Knutsen. No. 1,327,168; Jan. 6; v. 270; p. 53.
Measuring instrument, Proportional. H. L. Fischacher. No. 1,330,069; Feb. 10; v. 271; p. 167.
Measuring-instrument switch, Electrical. I. W. Broegger. No. 1,336,419; Apr. 13; v. 273; p. 195.
Measuring instrument, Thrust-. C. Macmillan. No. 1,347,348; July 20; v. 276; p. 520.
Measuring instruments, Gearing for electrical. B. G. La Bar. No. 1,327,832; Jan. 13; v. 270; p. 239.
Measuring instruments, Record-sheet for. W. M. Bradshaw. No. 1,363,712; Dec. 28; v. 281; p. 676.
Measuring liquid-dispenser. A. N. Rose. No. 1,350,730; Aug. 24; v. 277; p. 680.
Measuring-machine. F. R. Barker and W. R. Soper. No. 1,351,732; Sept. 7; v. 278; p. 3.
Measuring-machine I. P. Smith. No. 1,330,918; Feb. 17; v. 271; p. 395.
Measuring machine, Cloth-. L. L. Scott. (Reissue.) No. 14,898; June 22; v. 275; p. 772.
Measuring machine, Cloth-. J. T. Tullis. No. 1,345,811; July 6; v. 276; p. 95.
Measuring machine, Fabric-. Z. C. Haberman. No. 1,356,446; Oct. 19; v. 279; p. 485.
Measuring machine, Fabric-. H. E. Pauk. No. 1,337,260; Apr. 20; v. 273; p. 429.
Measuring machine, Sole-. W. C. Stewart. No. 1,358,794; Nov. 16; v. 280; p. 418.
Measuring off fabric, Device for. H. E. Pauk. No. 1,359,462; Nov. 16; v. 280; p. 547.
Measuring ohmic resistance of liquids and solutions, Apparatus for. T. H. Reardon. No. 1,346,057; July 6; v. 276; p. 144.
Measuring superficial areas, Method of and apparatus for. C. E. Lucke. No. 1,358,086; Nov. 9; v. 280; p. 231.
Measuring system, Time-. S. B. Williams, Jr., and W. P. Albert. No. 1,337,680; Apr. 20; v. 273; p. 509.
Measuring textile fabric, Machine for. J. C. Gebhart. No. 1,356,616; Oct. 26; v. 279; p. 565.
Measuring the capacity of refrigerating plants, Method and apparatus for. G. H. Crawford. No. 1,349,409; Aug. 10; v. 277; p. 301.
Measuring the consumption of heat. V. S. K. Petersen. No. 1,359,914; Nov. 23; v. 280; p. 681.
Measuring the flow of liquids, Apparatus for. C. Brown. No. 1,347,143; July 20; v. 276; p. 479.
Measuring the heights of superposed liquids of varying specific gravities, Method of and apparatus for. R. G. Thomas. No. 1,329,150; Jan. 27; v. 270; p. 553.
Measuring typewritten-matter, Device for. W. Bancroft. No. 1,355,881; Oct. 19; v. 279; p. 374.
Measuring vertical heights, Mechanism and range-finder for. A. Barr and W. Stroud. No. 1,329,356; Feb. 3; v. 271; p. 3.
Meat-broiling machine. A. De Matteis. No. 1,358,365; Nov 9; v. 280; p. 287.

Digitized by Google

Meat-chopping machine. G. R. Napier. No. 1,346,096; July 6; v. 276; p. 152.
Meat container and ejector, Combined. F. Kruse. No. 1,350,160; Aug. 17; v. 277; p. 520.
Meat-cutter. G. McElroy. No. 1,363,741; Dec. 28; v. 281; p. 681.
Meat-cutter safety-drive. J. Miller. No. 1,339,273; May 4; v. 274; p. 115.
Meat-hook. M. Faistenhammer. No. 1,354,811; Oct. 5; v. 279; p. 73.
Meat-hook. G. D. Kirk. No. 1,333,424; Mar. 9; v. 272; p. 288.
Meat, &c., Machine for cutting up. W. M. Burke. No. 1,328,226; Jan. 13; v. 270; p. 814.
Meat-presser. F. Kruse. No. 1,350,161; Aug. 17; v. 277; p. 520.
Meat products, Apparatus for producing powdered J. C. MacLachlan. No. 1,335,121; Mar. 30; v. 272; p. 775.
Meat-roaster. H. Love. No. 1,344,915; June 29; v. 275; p. 894.
Meat-slicing machine. A. H. Hleatzman. No. 1,339,623; May 11; v. 274; p. 258.
Meat-tendering implement. W. Maechler. No. 1,357,069; Oct. 26; v. 279; p. 655.
Mechanical furnace. A. Ramén. No. 1,353,268; Sept. 21; v. 278; p. 398.
Mechanical indicator. C. J. and W. A. Way. No. 1,352,855; Sept. 14; v. 278; p. 258.
Mechanical interrupters, Housing for. W. E. Schwarzmann. No. 1,335,130; Mar. 30; v. 272; p. 777.
Mechanical movement. J. Arnott. No. 1,342,887; June 8; v. 275; p. 303.
Mechanical movement. T. A. Both. No. 1,327,192; Jan. 6; v. 270; p. 59.
Mechanical movement. F. Clark. No. 1,354,955; Oct. 5; v. 279; p. 101.
Mechanical movement. C. Conlon. No. 1,344,989; June 29; v. 275; p. 907.
Mechanical movement. H. S. Dickinson. No. 1,354,470; Oct. 5; v. 279; p. 5.
Mechanical movement. E. M. Doherty. No. 1,338,427; Apr. 27; v. 273; p. 720.
Mechanical movement. A. Fay. No. 1,329,387; Feb. 3; v. 271; p. 8.
Mechanical movement. H. P. Gorman. No. 1,342,019; June 1; v. 275; p. 79.
Mechanical movement. J. Hettrich. No. 1,348,880; Aug. 10; v. 277; p. 197.
Mechanical movement. J. Hettrich. No. 1,357,288; Nov. 2; v. 280; p. 17.
Mechanical movement. H. G. Hill. No. 1,342,170; June 1; v. 275; p. 110.
Mechanical movement. C. F. Hover. No. 1,351,753; Sept. 7; v. 278; p. 7.
Mechanical movement. E. P. Johnson. No. 1,349,724; Aug. 17; v. 277; p. 436.
Mechanical movement. J. R. Johnson. No. 1,328,379; Jan. 20; v. 270; p. 379.
Mechanical movement. G. R. Knick. No. 1,354,766; Oct. 5; v. 279; p. 64.
Mechanical movement. S. W. M. Kollock. No. 1,349,283; Aug. 10; v. 277; p. 277.
Mechanical movement. J. C. Kopf. No. 1,338,877; Apr. 27; v. 273; p. 711.
Mechanical movement. J. J. Loeper. No. 1,329,783; Feb. 3; v. 271; p. 81.
Mechanical movement. G. Müller. No. 1,349,470; Aug. 10; v. 277; p. 313.
Mechanical movement. G. Müller. No. 1,359,416; Nov. 16; v. 280; p. 538.
Mechanical movement. W. J. Newton. No. 1,334,784; Mar. 23; v. 272; p. 651.
Mechanical movement. H. G. Pape. No. 1,363,050; Dec. 21; v. 281; p. 508.
Mechanical movement. J. D. Pedersen. No. 1,355,418; Oct. 12; v. 279; p. 244.
Mechanical movement. G. A. W. Revermann. No. 1,362,266; Dec. 14; v. 281; p. 304.
Mechanical movement. J. C. Soemer. No. 1,331,035; Feb. 17; v. 271; p. 418.
Mechanical movement. D. H. Smith. No. 1,344,732; June 29; v. 275; p. 858.
Mechanical movement. J. L. Tomer. No. 1,361,646; Dec. 7; v. 281; p. 134.
Mechanical movement. W. P. Ulrich. No. 1,351,978; Sept. 7; v. 278; p. 53.
Mechanical movement. J. Verderber. No. 1,333,951; Mar. 16; v. 272; p. 448.
Mechanical movement. J. R. Warren. No. 1,350,250; Aug. 17; v. 277; p. 537.
Mechanical movement. D. Winegarden. No. 1,359,304; Nov. 16; v. 280; p. 515.
Mechanic's gage, Graduated. U. I. T. Blomberg. No. 1,334,217; Mar. 16; v. 272; p. 497.
Mechanic's handy holding device. L. L. Heckathorn. No. 1,345,177; June 29; v. 275; p. 943.
Mechanotherapeutic and gymnastic apparatus. P. de Champtassin. No. 1,354,804; Oct. 5; v. 279; p. 72.
Medical apparatus. J. R. Pennington. No. 1,363,010; Dec. 21; v. 281; p. 500.
Medical appliance. W. J. Doyle. No. 1,337,829; Apr. 20; v. 273; p. 537.
Medical appliance. D. A. Rannells. No. 1,355,846; Oct. 19; v. 279; p. 367.
Medical appliance. C. H. Stephan. No. 1,327,786; Jan. 13; v. 270; p. 231.
Medicaments to the body, Means for applying. R. Baxter. No. 1,354,014; Sept. 28; v. 278; p. 590.
Medicine. U. Matsuura. No. 1,346,132; July 13; v. 276; p. 221.
Medicine-container. N. F. R. O'Connor. No. 1,333,935; Mar. 16; v. 272; p. 445.
Megaphone. G. C. Mason. No. 1,349,288; Aug. 10; v. 277; p. 278.
Melting and casting metals, Method of and apparatus for. J. H. L. De Bats. No. 1,354,286; Sept. 28; v. 278; p. 647.
Melting-furnace, Electrically-heated. L. C. Harvey. No. 1,337,839; Apr. 20; v. 273; p. 539.
Melting metallic masses, Method of and furnace for. T. W. Muckle. No. 1,363,188; Dec. 21; v. 281; p. 534.
Melting-pots of type-bar-making machines, Apparatus for automatically feeding the. A. E. Jeans and P. T. Hayes. No. 1,326,936; Jan. 6; v. 270; p. 10.
Membranes, Treating filtration-. J. F. Walt. No. 1,350,532; Aug. 24; v. 277; p. 640.
Memo and diary, Combination. G. G. Slaughter. No. 1,362,196; Dec. 14; v. 281; p. 290.
Memorandum device. R. J. Bell. No. 1,346,479; July 13; v. 276; p. 289.
Memorandum device. R. J. Bell. No. 1,360,714; Nov. 30; v. 280; p. 907.
Memorandum-pad, Indexed. G. Schlemmer. No. 1,338,331; Apr. 27; v. 273; p. 702.
Menu and napkin holder. W. A. Cox. No. 1,354,026; Sept. 28; v. 278; p. 593.
Mercerization. S. M. Jones. No. 1,343,138; June 8; v. 275; p. 353.
Mercerization. S. M. Jones. No. 1,343,139; June 8; v. 275; p. 353.
Mercerization. S. M. Jones. No. 1,346,802; July 13; v. 276; p. 354.
Mercerization. S. M. Jones. No. 1,346,803; July 13; v. 276; p. 354.
Mercerized products, Manufacture of. G. E. Schermerhorn. No. 1,363,358; Dec. 28; v. 281; p. 607.
Mercerizing machines, Means for electrically controlling skein-. J. E. Wild and W. W. Caldwell. No. 1,343,804; June 15; v. 275; p. 547.
Merchandise measuring and filling mechanism. H. J. Schubert. No. 1,360,324; Nov. 30; v. 280; p. 830.
Mercuroamino combinations, Producing. A. Eckmann. No. 1,347,083; July 20; v. 276; p. 467.
Mercury compounds of glucosids and making same. M. Hartmann. No. 1,354,105; Sept. 28; v. 278; p. 610.
Mercury-cooling system. T. Midgley, Jr. No. 1,328,051; Jan. 13, v. 270; p. 280.
Mercury-manometer. J. E. Shrader. No. 1,346,428; July 13; v. 276; p. 279.
Mercury-rectifiers, Controlling the efficiency of. W. Tschudy. (Reissue.) No. 14,816; Mar. 9; v. 272; p. 321.
Message device. C. W. J. Specht. No. 1,361,634; Dec. 7; v. 281; p. 132.
Message-interpreting device. F. H. Black. No. 1,352,046; Sept. 7; v. 278; p. 65.
Metal aeroplane. A. J. Cook. No. 1,363,569; Dec. 28; v. 281; p. 648.
Metal and forming same, Compound for carburizing. J. N. Bourg. No. 1,358,281; Nov. 9; v. 280; p. 269.
Metal and metallic articles, Preservation of. N. C. F. Jensen. No. 1,354,487; Oct. 5; v. 279; p. 8.
Metal and rolling same, Beaded strip of. T. Sloper. No. 1,343,753; June 15; v. 275; p. 537.
Metal and vulcanized rubber, Article and bonding. W. B. Pratt. No. 1,349,912; Aug. 17; v. 277; p. 472.
Metal articles, Apparatus for producing pressed. A. Grob. No. 1,345,594; July 6; v. 276; p. 53.
Metal articles, Plating. R. J. Shoemaker. No. 1,330,399; Feb. 10; v. 271; p. 228.
Metal bands or rings, Making. W. R. Carroll. No. 1,351,202; Aug. 31; v. 277; p. 831.
Metal bars, Machine for removing defective surfaces of. T. H. Mathias. No. 1,360,001; Nov. 23; v. 280; p. 699.
Metal bars, Tool for severing. J. F. Reilly. No. 1,331,212; Feb. 17; v. 271; p. 449.
Metal bending and forming machine. F. L. H. Sims. No. 1,336,660; Apr. 13; v. 273; p. 240.
Metal-bending machine. J. F. Crawford. No. 1,353,635; Sept. 21; v. 278; p. 472.
Metal-bending machine. C. Decrette. No. 1,333,751; Mar. 16; v. 272; p. 411.
Metal-bending machine. S. H. Gibson. No. 1,348,215; Aug. 3; v. 277; p. 16.
Metal-bending machine. H. Kessen. No. 1,348,806; Aug. 3; v. 277; p. 130.
Metal blanks, Process and apparatus for producing. R. S. Smith. No. 1,357,356; Nov. 2; v. 280; p. 30.
Metal bodies, Producing. G. L. Gebauer. No. 1,342,801; June 8; v. 275; p. 286.
Metal-bound box. O. M. Babcock. No. 1,334,068; Mar. 16; v. 272; p. 470.
Metal brake-beam. T. L. Burton. No. 1,340,007; May 11; v. 274; p. 330.

Digitized by Google

Metal building unit. J. D. Waern. No. 1,336,324; Apr. 6; v. 273; p. 117.
Metal case for containing drawers, shelves, &c. W. Chipperfield. No. 1,355,213; Oct. 12; v. 279; p. 204.
Metal clamp. E. J. Gregovsky. No. 1,334,151; Mar. 16; v. 272; p. 486.
Metal, Coated strain-hardened. W. R. Whitney. No. 1,331,888; Feb. 24; v. 271; p. 597.
Metal, Constructing expansible. H. G. Oliver. No. 1,358,101; Nov. 9; v. 280; p. 234.
Metal construction. E. E. Brown and D. J. Mooney. No. 1,351,615; Aug. 31; v. 277; p. 914.
Metal construction. E. E. Brown and D. J. Mooney. No. 1,360,720; Nov. 30; v. 280; p. 908.
Metal construction. D. J. Mooney. No. 1,357,073; Oct. 26; v. 279; p. 655.
Metal construction. D. J. Mooney and D. H. Emby. No. 1,360,774; Nov. 30; v. 280; p. 918.
Metal construction, Joint for use in corrugated-. P. N. Nissen. No. 1,351,435; Aug. 31; v. 277; p. 878.
Metal-cutting apparatus, Universal. S. Plumley. No. 1,352,760; Sept. 14; v. 278; p. 239.
Metal-drawing apparatus. L. H. Brinkman. No. 1,360,087; Nov. 23; v. 280; p. 716.
Metal-drawing apparatus. F. J. O'Brien. No. 1,341,664; June 1; v. 275; p. 10.
Metal, Drawing refractory. J. Hisamoto. No. 1,345,441; July 6; v. 276; p. 22.
Metal fabric, Machine for making. J. A. Payette. No 1,352,913; Sept. 14; v. 278; p. 270.
Metal fastener. W. E. Williams. No. 1,338,411; Apr. 27; v. 273; p. 717.
Metal for use in plastic metallic packings. Subdividing. W. Lewicki. No. 1,355,984; Oct. 19; v. 279; p. 394.
Metal-forming machine. C. L. Kennicott and C. P. Kemble No. 1,352,813; Sept. 14; v. 278; p. 250.
Metal frame and closure, Combined. W. H. and E. M. Capellen. No. 1,363,717; Dec. 28; v. 281; p. 677.
Metal-frame construction. C. O. Whitnell. No. 1,348,529; Aug. 3; v. 277; p. 77.
Metal-frame screen. C. A. Shogren. No. 1,344,093; June 22; v. 275; p. 668.
Metal from ores, Apparatus for extracting. H. H. Godfrey. No. 1,347,026; July 20; v. 276; p. 456.
Metal furnace, Soft-. J. B. McClain. No. 1,362,429; Dec. 14; v. 281; p. 335.
Metal heated to a high temperature against oxidation. H. B. Kipper. No. 1,358,161; Nov. 9; v. 280; p. 246.
Metal-heating furnace. H. D. Williams and W. Ahlen. No. 1,336,266; Apr. 6; v. 273; p. 106.
Metal hydroxids, Manufacture of. M. Buchner. No. 1,337,192; Apr. 20; v. 273; p. 417.
Metal in lubricating-oil, Means for arresting particles of. F. J. Cox. No. 1,335,955; Apr. 6; v. 273; p. 48.
Metal, Introducing materials into molten. A. Pacz. No. 1,337,093; Apr. 13; v. 273; p. 324.
Metal, Joining. G. A. Cutter. No. 1,330,241; Feb. 10; v. 271; p. 199.
Metal machine, Expanded-. N. E. Clark. No. 1,361,138; Dec. 7; v. 281; p. 31.
Metal machine, Expanded-. F. M. Whetstone. No. 1,353,198; Sept. 21; v. 278; p. 385.
Metal, Manufacture of plates and large sheets of composite or compound. E. Martin. No. 1,332,674; Mar. 2; v. 272; p. 95.
Metal, Means for scalping or overhauling. J. R. Coe. No. 1,328,034; Jan. 13; v. 270; p. 277.
Metal-melting furnace. G. W. McKee. No. 1,328,236; Jan. 13; v. 270; p. 316.
Metal-melting furnace. G. C. Rahn. No. 1,333,629; Mar. 16; v. 272; p. 388.
Metal, Method and apparatus for drawing. L. H. Brinkman. No. 1,329,455; Feb. 3; v. 271; p. 21.
Metal, Method and apparatus for drawing. L. H. Brinkman. No. 1,360,088; Nov. 23; v. 280; p. 716.
Metal, Method of and apparatus for forming rifled bores in. L. E. Boyer. No. 1,328,077; Jan. 13; v. 270; p. 285.
Metal, Method of and apparatus for pouring molten. K. Irvin and A. Lennox. No. 1,350,972; Aug. 24; v. 277; p. 723.
Metal, Method of and apparatus for rolling. J. W. Shepherdson. No. 1,347,917; July 27; v. 276; p. 689.
Metal objects, Apparatus for treating. H. E. Warren and W. M. Wheildon. No. 1,334,335; Mar. 23; v. 272; p. 566.
Metal parts, Apparatus for ascertaining the hardness of. E. Schneider. No. 1,354,217; Sept. 28; v. 278; p. 632.
Metal parts, Process and apparatus for ascertaining the hardness of. E. Schneider. No. 1,354,216; Sept. 28; v. 278; p. 632.
Metal parts, Process and apparatus for ascertaining the hardness of. E. Schneider. No. 1,354,218; Sept. 28; v. 278; p. 632.
Metal pieces while they are being electrically welded, Means for holding formed. H. M. Smith. No. 1,351,445; Aug. 31; v. 277; p. 880.
Metal plates and sheets, Apparatus for handling. W. J. Stoop. No. 1,330,099; Feb. 10; v. 271; p. 173.
Metal plates, Means for transferring and handling. L. Ennis. No. 1,329,962; Feb. 3; v. 271; p. 115.
Metal plates, Plugging holes in. M. Lachman. No. 1,332,670; Mar. 2; v. 272; p. 95.
Metal plates, Separating. C. E. Bailey. No. 1,334,584; Mar. 23; v. 272; p. 618.
Metal plates, Uniting. T. E. Murray. No. 1,363,161; Dec. 21; v. 281; p. 529.
Metal-plating machine. C. W. Eddy. No. 1,342,899; June 8; v. 275; p. 306.
Metal-plating, Process and apparatus for. R. J. Piersol. No. 1,343,842; June 15; v. 275; p. 555.
Metal platform. F. I. Pease. No. 1,359,835; Nov. 23; v. 280; p. 665.
Metal precipitator and separator. J. A. Murphy. No. 1,349,086; Aug. 10; v. 277; p. 237.
Metal, Producing prints on. P. V. Snow. No. 1,346,140; July 13; v. 276; p. 222.
Metal product and making same, Babbitt. L. Sapery. No. 1,351,404; Aug. 31; v. 277; p. 872.
Metal-reducing machine. B. M. W. Hanson. No. 1,341,799; June 1; v. 275; p. 37.
Metal, Removing impurities from molten. W. White. No. 1,332,585; Mar. 2; v. 272; p. 79.
Metal ribbon-leaf, Tool for applying. H. M. Bir. No. 1,348,079; July 27; v. 276; p. 722.
Metal rods, Tool for bending. J. J. Walt. No. 1,354,448; Sept. 28; v. 278; p. 679.
Metal, Scoring. H. A. Holz and F. P. Fahy. No. 1,333,311; Mar. 9; v. 272; p. 267.
Metal section, Rolled-. A. L. Roberts. No. 1,362,438; Dec. 14; v. 281; p. 336.
Metal section, Rolled-. A. L. Roberts. No. 1,362,439; Dec. 14; v. 281; p. 337.
Metal-separator. A. D. Fish. No. 1,327,667; Jan. 13; v. 270; p. 208.
Metal, Shaping and tempering. T. J. Fay. No. 1,346,946; July 20; v. 276; p. 440.
Metal shearing and punching machine. H. Cameron. No. 1,357,842; Nov. 2; v. 280; p. 123.
Metal sheet-piling section and wall. C. C. Conkling. No. 1,338,287; Apr. 27; v. 273; p. 698.
Metal sheets having perforated fibrous layers, apparatus for producing protected. J. Hamill. No. 1,347,852; July 27; v. 276; p. 677.
Metal sheets, Method of and apparatus for treating. H. W. Lamb. No. 1,337,458; Apr. 20; v. 273; p. 467.
Metal shelving. A. H. Levene. No. 1,343,327; June 15; v. 275; p. 452.
Metal-smoothing implement. E. G. Raff. No. 1,344,960; June 29; v. 275; p. 901.
Metal strips, Apparatus for treating. A. Sundh. No. 1,349,444; Aug. 10; v. 277; p. 308.
Metal strips, Method of and apparatus for forming. C. H. Brasted. No. 1,344,577; June 22; v. 275; p. 763.
Metal structure. L. A. Daniels. No. 1,331,247; Feb. 17; v. 271; p. 456.
Metal supporting and transferring tables. P. E. Hunter. No. 1,352,811; Sept. 14; v. 278; p. 250.
Metal surfaces, Decorating. K. Warga. No. 1,346,475; July 13; v. 276; p. 288.
Metal-tempering compound. A. S. Carlson. No. 1,362,924; Dec. 21; v. 281; p. 482.
Metal ties, Device for coupling. W. G. Turner. No. 1,332,647; Mar. 2; v. 272; p. 90.
Metal ties, Device for coupling. W. G. Turner. No. 1,332,650; Mar. 2; v. 272; p. 91.
Metal ties, Rail-clamping device for. J. W. Champion. No. 1,350,855; Aug. 24; v. 277; p. 701.
Metal to be galvanized or coated, Preparing. H. G. Harmeling. No. 1,334,092; Mar. 16; v. 272; p. 475.
Metal, Treating molten. O. Thiel. No. 1,353,126; Sept. 14; v. 278; p. 310.
Metal wheel. J. A. Anglada. No. 1,336,334; Apr 6; v. 273; p. 119.
Metal wheel. W. Barber. No. 1,348,199; Aug. 3; v. 277; p. 13.
Metal wheel. J. A. Charter. No. 1,359,964; Nov. 23; v. 280; p. 692.
Metal wheel. E. E. Einfeldt. No. 1,327,227; Jan. 6; v. 270; p. 65.
Metal wheel. L. S. Lachman. No. 1,340,961; May 25; v. 274; p. 638.
Metal wheel. M. Lachman. No. 1,346,820; July 20; v. 276; p. 417.
Metal wheel. M. Lachman. No. 1,363,519; Dec. 28; v. 281; p. 639.
Metal wheel. R. S. Smith. No. 1,347,183; July 20; v. 276; p. 486.
Metal while being milled, Apparatus for forming a smooth surface on. T. B. Kinraide. No. 1,336,239; Apr. 6; v. 273; p. 101.
Metal-working. F. P. Kobert. No. 1,333,081; Mar. 9; v. 272; p. 224.
Metal-working apparatus. J. A. Doane. No. 1,332,248; Mar. 2; v. 272; p. 14.
Metal-working apparatus, Electric. T. K. Enger. No. 1,358,428; Nov. 9; v. 280; p. 300.
Metal-working apparatus, Electric. W. Remington. No. 1,344,961; June 29; v. 275; p. 902.
Metal-working apparatus, Electric. E. Thomson. No. 1,334,571; Mar. 23; v. 272; p. 611.
Metal-working apparatus, Intermediate conductor for electric. A. F. Rietzel. No. 1,332,688; Mar. 2; v. 272; p. 98.
Metal-working feeding mechanism. A. Trosch. No. 1,336,108; Apr. 6; v. 273; p. 77.

Digitized by Google

Metal-working machine. P. P-G. Hall. No. 1,343,503; June 15; v. 275; p. 486.
Metal-working machine. B. M. W. Hanson. No. 1,346,822; July 20; v. 276; p. 416.
Metal-working machine. B. M. W. Hanson. No. 1,355,142; Oct. 12; v. 279; p. 190.
Metal-working machine. B. M. W. Hanson. No. 1,363,587; Dec. 28; v. 281; p. 652.
Metal-working machine. O. H. de Lapotterie. No. 1,341,808; June 1; v. 275; p. 39.
Metal-working machine. W. C. Loring and C. E. Jacobson. No. 1,338,456; Apr. 27; v. 273; p. 725.
Metal-working machine. E. B. Sellew. No. 1,356,020; Oct. 19; v. 279; p. 401.
Metal-working-machine holder. M. N. Jarvis. No. 1,361,730; Dec. 7; v. 281; p. 150.
Metal-working machines, Controlling system for. E. V. Wurts and B. S. Pero. No. 1,349,995; Aug. 17; v. 277; p. 488.
Metal-working machines, Distance-determining mechanism for. G. G. Frelinghuysen. No. 1,331,493; Feb. 24; v. 271; p. 522.
Metal-working machines, Distance-determining mechanism for. E. V. Wurts. No. 1,349,996; Aug. 17; v. 277; p. 488.
Metal-working machines, Electric heating apparatus for. F. P. Kobert. No. 1,330,477; Feb. 10; v. 271; p. 248.
Metal-working machines, Electric heating apparatus for. F. P. Kobert. No. 1,333,080; Mar. 9; v. 272; p. 224.
Metal-working machines, Feeder for. U. D. Foster and J. Litke. No. 1,350,715; Aug. 24; v. 277; p. 675.
Metal-working machines, Toothed change-gear for driving. R. A. Kempin. No. 1,345,497; July 6; v. 276; p. 33.
Metal-working machines, Work-holder for. H. G. Beede. No. 1,327,799; Jan. 13; v. 270; p. 233.
Metal-working machinery, Feeding mechanism for. H. Baerbalck. No. 1,358,051; Nov. 9; v. 280; p. 224.
Metal-working machinery, Feeding mechanism for. A. M. Sosa, A. E. Robinson, and H. W. Schatz. No. 1,351,969; Sept. 7; v. 278; p. 51.
Metal-working machinery, Feeding mechanism for. A. M. Sosa, A. E. Robinson, and H. W. Schatz. No. 1,351,970; Sept. 7; v. 278; p. 51.
Metals and alloys, Treating. C. B. Foley. No. 1,350,714; Aug. 24; v. 277; p. 675.
Metals and reduced metallic compounds, Making powdered. C. Ellis. No. 1,329,322; Jan. 27; v. 270; p. 584.
Metals, Apparatus for cutting. J. F. Richardson. No. 1,359,530; Nov. 23; v. 280; p. 605.
Metals are cast, Pattern for making molds in which. W. Gibson. No. 1,349,829; Aug. 17; v. 277; p. 456.
Metals, Blast treatment of. H. Koppers. No. 1,357,782; Nov. 2; v. 280; p. 111.
Metals, Blast treatment of. H. Koppers. No. 1,357,781; Nov. 2; v. 280; p. 110.
Metals by a cutting-flame, Apparatus for cutting. A. Godfrey. No. 1,357,859; Nov. 2; v. 280; p. 126.
Metals, Cleansing ferrous and non-ferrous. S. R. Mason. No. 1,337,718; Apr. 20; v. 273; p. 516.
Metals, Crucible treatment of. H. Koppers. No. 1,357,782; Nov. 2; v. 280; p. 111.
Metals, Device for shearing and cutting. G. A. Richardson and A. Mercier. No. 1,347,912; July 27; v. 276; p. 688.
Metals, Electrochemical precipitation of. E. R. Holden. (Reissue.) No. 14,849; Apr. 27; v. 273; p. 764.
Metals, Extracting. C. J. A. Dalziel. No. 1,344,681; June 29; v. 275; p. 849.
Metals from natural waters, Recovering. O. Nagel. No. 1,358,096; Nov. 9; v. 280; p. 233.
Metals from pulverized material, Apparatus for separating or concentrating fine. G. Clement. No. 1,345,835; July 6; v. 276; p. 99.
Metals from their ores, Recovery of. H. V. Welch. No. 1,338,271; Apr. 27; v. 273; p. 691.
Metals, Galvanizing. R. C. Steffen. No. 1,334,183; Mar. 16; v. 272; p. 491.
Metals, Means for electrically marking upon. W. S. Overlin. No. 1,350,734; Aug. 24; v. 277; p. 679.
Metals, Melting and melting and reducing. M. H. Bennett. No. 1,337,305; Apr. 20; v. 273; p. 438.
Metals, Method of and apparatus for heat-treating. L. E. Johnson. No. 1,351,909; Sept. 7; v. 278; p. 39.
Metals operating automatically, Machine for sawing. F. Beck. No. 1,354,874; Oct. 5; v. 279; p. 85.
Metals, Radius-cutter for. A. P. Schilling and D. J. Hassett. No. 1,354,848; Oct. 5; v. 279; p. 80.
Metals, Sawing. C. L. Mohr. No. 1,358,971; Nov. 16; v. 280; p. 452.
Metals, Treating. R. H. Bulley. No. 1,347,838; July 27; v. 276; p. 673.
Metals, Treating. W. E. Ruder. No. 1,346,062; July 6; v. 276; p. 145.
Metals, Uniting dissimilar. G. A. Mead. No. 1,341,337; May 25; v. 274; p. 711.
Metallic and non-metallic conductors, Method of and apparatus for connecting. H. E. Nichols. No. 1,358,648; Nov. 9; v. 280; p. 343.
Metallic articles, Making compound. G. A. Mead. No. 1,359,719; Nov. 23; v. 280; p. 642.
Metallic articles, Method of and apparatus for heat-treating. H. P. Macdonald. No. 1,335,977; Apr. 6; v. 273; p. 52.
Metallic articles, Process and apparatus for treating. L. G. Nilson. No. 1,335,453; Mar. 30; v. 272; p. 837.
Metallic articles, Producing formed. C. L. Gebauer. No. 1,359,353; Nov. 16; v. 280; p. 525.
Metallic joint. W. E. Taylor. No. 1,355,712; Oct. 12; v. 279; p. 301.
Metallic-leaf-applying device. J. Moscini. No. 1,344,427; June 22; v. 275; p. 733.
Metallic leaf, Method and apparatus for packaging. L. M. Harwood. No. 1,360,741; Nov. 30; v. 280; p. 912.
Metallic objects, Developing defects in. A. S. and H. P. Macdonald. No. 1,327,341; Jan. 6; v. 270; p. 85.
Metallic receptacles, Sput for. H. S. Reynolds. No. 1,332,686; Mar. 2; v. 272; p. 98.
Metallic receptacles, Sput for. H. S. Reynolds. No. 1,332,687; Mar. 2; v. 272; p. 98.
Metallic shapes, Manufacturing. C. A. Witter. No. 1,348,677; Aug. 3; v. 277; p. 106.
Metallic structure. M. Lachman. No. 1,342,818; June 8; v. 275; p. 290.
Metallic-structure joint. F. S. Rece. No. 1,351,967; Sept. 7; v. 278; p. 51.
Metallic tie. C. Pall. No. 1,330,276; Feb. 10; v. 271; p. 205
Metallic values, Apparatus for saving. L. C. Stockton and C. F. Goddard. No. 1,327,885; Jan. 13; v. 270; p. 249.
Metalliferous materials, Treating. H. B. Hovland and G. B. Frankforter. No. 1,335,000; Mar. 30; v. 272; p. 753.
Metallurgical and other purposes, Apparatus for. H. B. Hovland. No. 1,345,596; July 6; v. 276; p. 53.
Metallurgical furnace. H. B. Bryson. No. 1,358,703; Nov. 16; v. 280; p. 899.
Metallurgical furnace. D. E. Griffiths. No. 1,350,865; Aug. 24; v. 277; p. 703.
Metallurgical furnace. S. M. Howell. No. 1,337,703; Apr. 20; v. 273; p. 513.
Metallurgical furnace. S. M. Howell. (Reissue.) No. 14,914; July 13; v. 276; p. 355.
Metallurgical method and appliances. G. F. Greenwood. No. 1,338,439; Apr. 27; v. 273; p. 722.
Metallurgical process. A. Foss and B. F. Halvorsen. No. 1,340,480; May 18; v. 274; p. 477.
Metallurgical process. W. E. Greenawalt. No. 1,328,666; Jan. 20; v. 270; p. 433.
Metallurgical process. W. E. Greenawalt. No. 1,342,804; June 8; v. 275; p. 287.
Metallurgical process. W. E. Greenawalt. No. 1,344,030; June 22; v. 275; p. 656.
Metallurgical process. W. E. Greenawalt. No. 1,344,127; June 22; v. 275; p. 674.
Metallurgical process. W. E. Greenawalt. No. 1,357,495; Nov. 2; v. 280; p. 55.
Metallurgical process. G. T. Hansen. No. 1,361,459; Dec. 7; v. 281; p. 97.
Metallurgical process. H. B. Hovland and G. B. Frankforter. No. 1,335,001; Mar. 30; v. 272; p. 753.
Metatarsal support. J. W. Arrowsmith. No. 1,358,606; Nov. 9; v. 280; p. 335.
Meter: *See*—
Alternating-current frequency-meter.
Dental meter.
Diaphragm blast-meter.
Electric meter.
Electricity-meter.
Electrolytic meter.
Exposure-meter.
Flow-meter.
Fluid-meter.
Fluid-density meter.
Gas-meter.
Grade-meter.
Light-meter.
Liquid-meter.
Range-meter.
Ratio-meter.
Recording-meter.
Volt-ampere meter.
Meter. L. Burnham. No. 1,338,852; May 4; v. 274; p. 37.
Meter. W. E. Fitz Simons. No. 1,354,816; Oct. 5; v. 279; p. 74.
Meter. J. H. Norris. No. 1,361,656; Dec. 7; v. 281; p. 136.
Meter connection and controlling means. J. W. Calhoun. No. 1,345,124; June 29; v. 275; p. 933.
Meter-lock. H. H. Roe. No. 1,343,851; June 15; v. 275; p. 556.
Meter-lubricator. J. M. Gow and F. S. Davis. No. 1,348,559; Aug. 3; v. 277; p. 83.
Meter service-box and housing for curb-cocks. D. P. Child. No. 1,346,879; July 20; v. 276; p. 427.
Meter-support. C. C. Bradfield. No. 1,346,440; July 13; v. 276; p. 281.
Meter-support. L. McNutt. No. 1,357,107; Oct. 26; v. 279; p. 662.
Meter-test device. A. P. Ball and F. Zenker. No. 1,361,955; Dec. 14; v. 281; p. 242.
Meters, Protective casing for electric. J. J. Schickluna. No. 1,337,163; Apr. 13; v. 273; p. 336.
Meters, &c., Relay mechanism for flow-. A. Herz. No. 1,331,065; Feb. 17; v. 271; p. 423.
Metering-panel. J. Cuthbert. No. 1,360,371; Nov. 30; v. 280; p. 839.
Mica and mica-slate, Manufacture of. C. J. Patton. No. 1,338,393; Apr. 27; v. 273; p. 713.
Mica-building machine. L. T. Frederick. No. 1,359,685; Nov. 23; v. 280; p. 636.

Digitized by Google

Mica, Machine for manufacturing composite. D. Waling. No. 1,349,351; Aug. 10; v. 277; p. 290.
Micro oscillations, Transmitting device for. B. Meidell. No. 1,335,592; Mar. 30; v. 272; p. 862.
Micrometer, J. J. Davis. No. 1,341,546; May 25; v. 274; p. 752.
Micrometer. A. F. Donaldson. No. 1,346,304; July 13; v. 276; p. 255.
Micrometer. J. E. Hastings. No. 1,348,875; Aug. 10; v. 277; p. 196.
Micrometer. J. Sardo and P. Pariso. No. 1,333,453; Mar. 9; v. 272; p. 293.
Micrometer. E. E. Wolf. No. 1,331,794; Feb. 24; v. 271; p. 579.
Micrometer and gage attachment. F. M. Johnson. No. 1,328,378; Jan. 20; v. 270; p. 379.
Micrometer and height gage. D. H. Lehigh. No. 1,335,004; Mar. 30; v. 272; p. 753.
Micrometer-gage. F. O. Jaques, Sr. No. 1,338,932; May 4; v. 274; p. 52.
Micrometer-gage. T. Shaw. No. 1,350,185; Aug. 17; v. 277; p. 525.
Micrometer, Headspace-. T. H. Eickhoff and C. A. Tunks. No. 1,351,721; Aug. 31; v. 277; p. 933.
Microscope. H. N. Ott and C. W. Barton. No. 1,360,571; Nov. 30; v. 280; p. 879.
Microscope and compass, Combined. F. Bold. No. 1,331,093; Feb. 17; v. 271; p. 428.
Microtomes, Freezing attachment for. H. I. Gosline. No. 1,343,051; June 8; v. 275; p. 335.
Mid-ocean station. J. M. Roberts. No. 1,341,677; June 1; v. 275; p. 13.
Middlings-mill. A. Wolf. No. 1,344,470; June 22; v. 275; p. 742.
Middlings, Process and apparatus for reducing. H. M. Whitney. No. 1,375,015; Oct. 26; v. 279; p. 644.
Mileage-register. C. D. Richard. No. 1,362,267; Dec. 14; v. 281; p. 304.
Milk and cream, Ascertaining the quantity of fat in. H. M. Höyberg. No. 1,329,183; Jan. 27; v. 270; p. 560.
Milk and cream substitutes, Manufacturing. G. D. Thevenot. No. 1,359,633; Nov. 23; v. 280; p. 625.
Milk and cream tester. A. T. Hassinger. No. 1,355,969; Oct. 19; v. 279; p. 391.
Milk and making same, Reconstructed. A. W. Bosworth. No. 1,341,040; May 25; v. 274; p. 654.
Milk and other liquids, Agitator for. J. C. Kennedy. No. 1,358,317; Nov. 9; v. 280; p. 276.
Milk and other liquids, Machine for pasteurizing. G. E. Page. No. 1,352,214; Sept. 7; v. 278; p. 96.
Milk, Apparatus for treating and canning. B. E. Taylor. No. 1,340,921; May 25; v. 274; p. 630.
Milk-boiler. M. Hankulich. No. 1,340,336; May 18; v. 274; p. 449.
Milk-boiler. T. Mieczejeski. No. 1,333,330; Mar. 9; v. 272; p. 271.
Milk-bottle handle. C. Dutcher. No. 1,338,660; Apr. 27; v. 273; p. 763.
Milk-box lock. J. B. Miller. No. 1,334,777; Mar. 23; v. 272; p. 650.
Milk-can cover. M. O. Wisegarver. No. 1,340,097; May 11; v. 274; p. 347.
Milk-carrier, Sanitary. B. Wilbur. No. 1,328,987; Jan. 27; v. 270; p. 514.
Milk-claw support. S. B. Sifleet. No. 1,336,598; Apr. 13; v. 273; p. 227.
Milk-cooler. W. S. Becket. No. 1,357,938; Nov. 9; v. 280; p. 201.
Milk cooler and aerator. H. Bélliveau. No. 1,360,869; Nov. 30; v. 280; p. 937.
Milk cooler and strainer. L. F. Butman and C. E. Bixby. No. 1,346,937; July 20; v. 276; p. 438
Milk, Desiccating. R. W. G. Stutzke. No. 1,350,248; Aug. 17; v. 277; p. 537.
Milk dispenser, Malted-. A. E. Shutterly. No. 1,355,279; Oct. 12; v. 279; p. 218.
Milk-fat, Manufacture of. E. B. Phelps, A. Stevenson, and J. C. Baker. No. 1,354,683; Oct. 5; v. 279; p. 47.
Milk in centrifugal apparatus, Inlet device for the whole-. S. A. Eskilson. No. 1,335,784; Apr. 6; v. 273; p. 16.
Milk, Making evaporated. O. W. Mojonnier. No. 1,362,728; Dec. 21; v. 281; p. 445.
Milk, Making substitute for. A. B. Moses. No. 1,332,562; Mar. 2; v. 272; p. 74.
Milk, Process and apparatus for standardizing. B. R. Wright. No. 1,327,004; Jan. 6; v. 270; p. 24.
Milk-releaser chamber, Vacuum. C. E. Somers. No. 1,351,192; Aug. 31; v. 277; p. 829.
Milk, Safety-box for. L. Antonuk. No. 1,338,659; Apr. 27; v. 273; p. 762.
Milk-sterilizing apparatus. F. E. Cryder. No. 1,328,722; Jan. 20; v. 270; p. 443.
Milk-tester. A. T. Hassinger. No. 1,355,970; Oct. 19; v. 279; p. 391.
Milk, Treating. H. Buel. No. 1,327,808; Jan. 6; v. 270; p. 80.
Milker-chamber. M. Leach. No. 1,332,346; Mar. 2; v. 272; p. 32.
Milker-head. M. Lammers. No. 1,328,880; Jan. 27; v. 270; p. 503.
Milker, Portable cow-. W. M. Mehring. No. 1,341,480; May 25; v. 274; p. 729.
Milking apparatus. L. Dinesen. No. 1,353,570; Sept. 21; v. 278; p. 458.
Milking apparatus. M. Lammers. No. 1,338,182; Apr. 27; v. 273; p. 674.
Milking apparatus. A. C. Macartney. No. 1,335,178; Mar. 30; v. 272; p. 785.
Milking-machine. W. J. Armes. No. 1,361,435; Dec. 7; v. 281; p. 92.
Milking-machine. H. B. Babson and A. C. Macartney. No. 1,329,452; Feb. 3; v. 271; p. 20.
Milking-machine. J. G. G. Eklundh, C. Oden, and J. A. Schmitt. No. 1,337,211; Apr. 20; v. 273; p. 420.
Milking-machine. F. A. Gessler. No. 1,333,972; Mar. 16; v. 272; p. 452.
Milking-machine. R. L. Hinman. No. 1,330,872; Feb. 17; v. 271; p. 388.
Milking-machine. A. V. and R. L. Hinman. No. 1,330,114; Feb. 10; v. 271; p. 176.
Milking-machine. A. O. Houghland. No. 1,347,162; July 20; v. 276; p. 482.
Milking-machine. G. E. Jonsson. No. 1,363,739; Dec. 28; v. 281; p. 681.
Milking-machine. F. A. Lane. No. 1,354,666; Oct. 5; v. 279; p. 44.
Milking-machine. H. A. McArthur. No. 1,351,337; Aug. 31; v. 277; p. 859.
Milking-machine. A. C. Macartney. No. 1,344,140; June 22; v. 275; p. 677.
Milking-machine. R. C. Mealey and A. E. Puffer. No. 1,361,082; Dec. 7; v. 281; p. 20.
Milking-machine. J. Prince. No. 1,358,987; Nov. 16; v. 280; p. 455.
Milking-machine. G. D. Sundstrand. No. 1,352,849; Sept. 14; v. 278; p. 257.
Milking-machine. D. Tehur. No. 1,354,145; Sept. 28; v. 278; p. 618.
Milking machine, Cow-. S. M. Bower. No. 1,332,318; Mar. 2; v. 272; p. 27.
Milking-machine for cows. W. A. Shippert. No. 1,349,441; Aug. 10; v. 277; p. 308.
Milking-machine pulsator. A. B. Robertson. No. 1,361,617; Dec. 7; v. 281; p. 128.
Milking-machine system. H. B. Babson and A. C. Macartney. No. 1,329,451; Feb. 3; v. 271; p. 20.
Milking-machine teat-cup claw. C. Williams and J. A. Young. No. 1,358,667; Nov. 9; v. 280; p. 347.
Milking-machine teat-cups, Ring-inserter for. M. Leitch. No. 1,363,522; Dec. 28; v. 281; p. 639.
Milking-machine, Vacuum. C. H. Davis. No. 1,353,639; Sept. 21; v. 278; p. 472.
Milking-machines, Pulsator for. H. B. Babson. No. 1,335,953; Apr. 6; v. 273; p. 47.
Milking-machines, Stripping device for. W. A. Shippert. No. 1,351,798; Sept. 7; v. 278; p. 16.
Milking-machines, Teat-cup for. B. A. Knowles. No. 1,333,261; Mar. 9; v. 272; p. 257.
Milking-machines, Udder attachment for. P. A. Frimand. No. 1,348,401; Aug. 3; v. 277; p. 53.
Milking-machines, Valve-mounting for. H. B. Babson. No. 1,333,460; Mar. 9; v. 272; p. 295.
Milking-machines, Valve-mounting for. H. B. Babson. No. 1,333,461; Mar. 9; v. 272; p. 295.
Milking machinery. N. J. Daysh. No. 1,352,726; Sept. 14; v. 278; p. 232.
Mill: *See*—

Ball-mill.	Reducing-mill.
Cane-mill.	Roller-mill.
Chilian mill.	Rolling-mill.
Coffee-mill.	Rumble-mill.
Coffee-grinding mill.	Slabbing-mill.
Comminuting-mill.	Stamp-mill.
Conical mill.	Sugar-cane mill.
Crushing-mill.	Treadmill.
End mill.	Tube-mill.
Feed-mill.	Two-compartment ball-mill.
Flour-mill.	Water-mill.
Grinding-mill.	Wet-coal mill.
Middlings-mill.	Wheel-mill.
Mixing-mill.	Windmill.
Pulverizer-mill.	Wire-mill.
Pulverizing-mill.	

Mill. R. R. Nolen. No. 1,349,221; Aug. 10; v. 277; p. 264.
Mill and efficient operation thereof, Combination. P. C. Van Zandt. No. 1,361,205; Dec. 7; v. 281; 44.
Mill for rolling circular sections, Adjustable. B. F. Faunce. No. 1,341,891; June 1; v. 275; p. 54.
Mill-stop, Automatic. N. M. Gidley. No. 1,341,268; May 25; v. 274; p. 698.
Mill with supported working rolls, Rolling-. A. Kriwan. No. 1,360,959; Nov. 30; v. 280; p. 954.
Mills and manufacture of weldless tubes and other hollow bodies, Reversible rolling. E. Defert. No. 1,361,025; Dec. 7; v. 281; p. 9.
Mills, Attachment for grain or grist. W. P. Carson. No. 1,327,700; Jan. 13; v. 270; p. 215.
Mills, Automatic blocking mechanism for strip-. A. Sundh. No. 1,326,989; Jan. 6; v. 270; p. 21.
Mills, Cage construction for. M. F. Williams. No. 1,340,643; May 18; v. 274; p. 508.
Mills, Grinding-plate for feed-. B. A. Shaw. No. 1,361,915; Dec. 14; v. 281; p. 234.

Digitized by Google

Mills, Feeding device for grinding cylinder-. E. Roth. No. 1,337,567; Apr. 20; v. 273; p. 487.
Mills, Plate for grinding-. A. H. Coplan and A. Baillot. No. 1,360,725; Nov. 30; v. 280; p. 909.
Mills, Sampling device for pulverizer-. J. W. Fuller. No. 1,337,697; Apr. 20; v. 273; p. 512.
Mills, Screen-shoe-actuating means for grist-. J. L. Smith. No. 1,335,464; Mar. 30; v. 272; p. 839.
Mills, Screen-shoe feed for corn and feed. R. C. Meadows. No. 1,363,425; Dec. 28; v. 281; p. 620.
Mills, Separator for grinding-. B. McBride. No. 1,360,125; Nov. 23; v. 280; p. 723.
Mills, Transfer-table for rolling-. H. G. O'Brien. No. 1,362,345; Dec. 14; v. 281; p. 319.
Mills, Yarn-fastener for reel-. P. Rasmussen. No. 1,360,018; Nov. 23; v. 280; p. 702.
Milling and grinding tool holder. R. Rosner. No. 1,329,857; Feb. 3; v. 271; p. 96.
Milling-cutter. W. A. James. No. 1,351,386; Aug. 31; v. 277; p. 868.
Milling-cutter. C. K. Lassiter. No. 1,359,179; Nov. 16; v. 280; p. 490.
Milling-cutter. F. Müller. No. 1,348,295; Aug. 3; v. 277; p. 33.
Milling-cutter. F. Müller. No. 1,348,307; Aug. 3; v. 277; p. 35.
Milling-cutter. J. M. Richards. No. 1,345,636; July 6; v. 276; p. 60.
Milling-cutter. J. R. Richer and J. O. Hessler. No. 1,338,158; Apr. 27; v. 273; p. 669.
Milling-cutters, Making. F. Müller. No. 1,348,296: Aug. 3; v. 277; p. 33.
Milling-cutters, Making. F. Müller. No. 1,348,297; Aug. 3; v. 277; p. 33.
Milling-cutters, Making. F. Müller. No. 1,348,298; Aug. 3; v. 277; p. 33.
Milling-cutters, Making. F. Müller. No. 1,348,299; Aug. 3; v. 277; p. 34.
Milling-cutters, Making. F. Müller. No. 1,348,300; Aug. 3; v. 277; p. 34.
Milling-cutters, Making. F. Müller. No. 1,348,301; Aug. 3; v. 277; p. 34.
Milling-cutters, Making. F. Müller. No. 1,348,302; Aug. 3; v. 277; p. 34.
Milling-cutters, Making. F. Müller. No. 1,348,303; Aug. 3; v. 277; p. 34.
Milling-cutters, Making. F. Müller. No. 1,348,308; Aug. 3; v. 277; p. 36.
Milling-cutters, Making. F. Müller. No. 1,348,309; Aug. 3; v. 277; p. 36.
Milling hob, Thread-. F. Müller. No. 1,348,304; Aug. 3; v. 277; p. 35.
Milling hobs, Making thread-. F. Müller. No. 1,348,305; Aug. 3; v. 277; p. 35.
Milling hobs, Making thread-. F. Müller. No. 1,348,306; Aug. 3; v. 277; p. 35.
Milling-machine. A. Arthur. No. 1,330,971; Feb. 17; v. 271; p. 405.
Milling-machine. A. L. Bausman and G. S. Perkins. No. 1,341,252; May 25; v. 274; p. 695.
Milling-machine. L. G. Bayrer. No. 1,329,358; Feb. 3; v. 271; p. 4.
Milling-machine. H. G. Beede. No. 1,341,084; May 25; v. 274; p. 653.
Milling-machine. W. D. Craft and F. F. Sorensen. No. 1,356,807; Oct. 26; v. 279; p. 603.
Milling-machine. P. J. Darlington. No. 1,341,300; May 25; v. 274; p. 704.
Milling-machine. B. M. W. Hanson. No. 1,331,708; Feb. 24; v. 271; p. 563.
Milling-machine. C. D. Oesterlein and L. H. Blood. No. 1,330,897; Feb. 17; v. 271; p. 390.
Milling-machine. C. A. Rich. No. 1,355,167; Oct. 12; v. 279; p. 195.
Milling-machine. C. H. Schurr and E. J. Lees. (Reissue.) No. 14,976; Nov. 2; v. 280; p. 141.
Milling-machine. G. T. Trundle, Jr. No. 1,358,040; Nov. 9; v. 280; p. 222.
Milling-machine. E. L. Williams. No. 1,339,490; May 11; v. 274; p. 232.
Milling-machine attachment. C. F. Schmelzer. No. 1,340,741; May 18; v. 274; p. 526.
Milling-machine, Double-head. C. L. Huston. No. 1,339,029; May 4; v. 274; p. 70.
Milling-machine, Semi-automatic roller-retainer. T. Zetterlund. No. 1,333,053; Mar. 9; v. 272; p. 219.
Milling machine, Thread-. P. W. Martin. No. 1,355,240; Oct. 12; v. 279; p. 210.
Milling-machines, Brace for. J. C. Lawrence. No. 1,342,390; June 1; v. 275; p. 151.
Milling-machines, Drop-table mechanism for. B. M. W. Hanson. No. 1,347,778; July 27; v. 276; p. 662.
Milling-machines, Spindle mechanism for. L. E. Waite. No. 1,356,842; Oct. 26; v. 279; p. 610.
Milling screw-threads, Means applicable for use in. G. Richards. No. 1,339,223; May 4; v. 274; p. 106.
Mine. W. L. McNulty. No. 1,327,488; Jan. 6; v. 270; p. 113.
Mine and system of exploding same, Land-. J. D. Clark. No. 1,333,900; Mar. 16; v. 272; p. 438.
Mine-cages, Electrical safety controlling system for. O. G. Lee and A. Zess. No. 1,362,880; Dec. 21; v. 281; p. 474.
Mine-cages, Safety device for. S. Peskulich. No. 1,334,116; Mar. 16; v. 272; p. 480.
Mine-cages, Safety device for. S. Peskolich. (Reissue.) No. 14,864; May 25; v. 274; p. 768.
Mine-door. C. H. Payne. No. 1,335,255; Mar. 30; v. 272; p. 799.
Mine-door, Automatic. C. L. Bowman and J. J. Body. No. 1,353,715; Sept. 21; v. 278; p. 488.
Mine-door-operating mechanism, Automatic. W. Crooks. No. 1,345,074; June 29; v. 275; p. 923.
Mine-drill. J. Katulka. No. 1,361,734; Dec. 7; v. 281; p. 151.
Mine-haul. H. V. Brown. No. 1,352,653; Sept. 14; v. 135; p. 218.
Mine-loading machine. F. Billings. No. 1,328,487; Jan. 20; v. 270; p. 400.
Mine, Marine. F. W. Hampton. No. 1,343,969; June 22; v. 275; p. 644.
Mine pulley or roller. J. B. Anderson. No. 1,349,183; Aug. 10; v. 277; p. 257.
Mine safety apparatus. M. Furlong. No. 1,327,596; Jan. 6; v. 270; p. 133.
Mine-shaft safety device. G. M. Johnson. No. 1,333,921; Mar. 16; v. 272; p. 442.
Mine-shovel, Power. P. B. Brown. No. 1,345,991; July 6; v. 276; p. 131.
Mine, Submarine. G. E. Ella. No. 1,346,309; July 13; v. 276; p. 256.
Mine, Submarine. G. E. Ella. No. 1,352,795; Sept. 14; v. 278; p. 246.
Mine, Submarine. G. E. Ella and T. K. North. No. 1,333,752; Mar. 16; v. 272; p. 411.
Mine, Submarine. T. K. North. No. 1,340,288; May 18; v. 274; p. 440.
Mines, Time apparatus for use with submarine. J. Rey. No. 1,358,466; Nov. 9; v. 280; p. 308.
Mine-trolleys, Cut-out switch for. J. Racosky. No. 1,343,475; June 15; v. 275; p. 480.
Mines, Safety device for. J. A. Nolan. No. 1,337,943; Apr. 20; v. 273; p. 559.
Mines, torpedoes, &c., Firing device for submarine. N. W. Uhr and J. H. Sandberg. No. 1,336,873; Apr. 13; v. 273; p. 282.
Mines, Towing. J. P. Nordell. No. 1,341,578; May 25; v. 274; p. 758.
Mining. E. C. Morgan. No. 1,330,741; Feb. 10; v. 271; p. 292.
Mining. E. C. Morgan. No. 1,330,742; Feb. 10; v. 271; p. 292.
Mining and loading machine. E. C. Morgan. No. 1,340,731; May 18; v. 274; p. 524.
Mining and loading machine, Coal. J. M. London. No. 1,327,052; Jan. 6; v. 270; p. 88.
Mining, Apparatus for and method of. L. H. Eichelberger and R. A. Walter. No. 1,334,894; Mar. 23; v. 272; p. 672.
Mining-drill. C. Biernat. No. 1,354,944; Oct. 5; v. 279; p. 99.
Mining implement. I. B. Wathen. No. 1,349,641; Aug. 17; v. 277; p. 420.
Mining-machine. A. Ball. No. 1,352,169; Sept. 7; v. 278; p. 88.
Mining-machine. C. S. Corrigan. No. 1,351,892; Sept. 7; v. 278; p. 36.
Mining-machine. C. E. Davis. No. 1,344,201; June 22; v. 275; p. 689.
Mining-machine. C. E. Davis. No. 1,350,706; Aug. 24; v. 277; p. 673.
Mining-machine. R. H. Jeffrey. No. 1,354,831; Oct. 5; v. 279; p. 77.
Mining-machine. N. D. Levin. No. 1,353,054; Sept. 14; v. 278; p. 297.
Mining-machine. E. C. Morgan. No. 1,328,755; Jan. 20; v. 270; p. 449.
Mining-machine. N. Pedulla. No. 1,358,984; Nov. 16; v. 280; p. 455.
Mining machine, Coal-. G. McCarter. No. 1,336,039; Apr. 6; v. 278; p. 68.
Mining machine, Coal-. S. N. Mighell. No. 1,346,966; July 20; v. 276; p. 444.
Mining-machine, Hand. N. Pedulla. No. 1,357,510; Nov. 2; v. 280; p. 58.
Mining-machines, Cutter-bar and bit-chain for. E. T. Silvius. No. 1,336,927; Apr. 13; v. 278; p. 292.
Mining operations, Method of and apparatus for conducting. C. W. Jensen. No. 1,332,986; Mar. 9; v. 272; p. 207.
Mining purposes, Apparatus for. E. C. Morgan. No. 1,333,627; Mar. 16; v. 272; p. 887.
Mineral flotation. J. P. Ruth, Jr. No. 1,356,832; Oct. 26; v. 279; p. 608.
Mineral-manure process. W. M. Johnson. No. 1,338,734; May 4; v. 274; p. 16.
Mineral separation, Apparatus for. W. W. Wilson. No. 1,341,770; June 1; v. 275; p. 81.
Mineral-washing apparatus. G. R. Delamater. No. 1,352,727; Sept. 14; v. 278; p. 233.
Minerals, Sulfidation and flotation of. J. W. Thompson. No. 1,334,720; Mar. 23; v. 272; p. 638.
Minnow, Artificial. F. Jordan. No. 1,361,067; Dec. 7; v. 281; p. 17.
Mirror. C. Friend. No. 1,356,441; Oct. 19; v. 279; p. 484.

Digitized by Google

Mirror, Adjustable windshield-. M. E. Francisco. No. 1,345,157; June 29; v. 275; p. 939.
Mirror and backing same. C. E. Akeley. No. 1,342,578; June 8; v. 275; p. 242.
Mirror attachment, Adjustable. E. W. McCarroll. No. 1,342,854; June 8; v. 275; p. 297.
Mirror-bracket. S. D'Esopo. No. 1,358,422; Nov. 9; v. 280; p. 299.
Mirror-bracket, Adjustable. W. La Hodny. No. 1,328,677; Jan. 20; v. 270; p. 435.
Mirror, Dental. C. J. Underwood. No. 1,345,718; July 6; v. 276; p. 77.
Mirror device. H. O. Rugh. No. 1,347,593; July 27; v. 276; p. 625.
Mirror, Ear hand-. E. H. Roy. No. 1,342,350; June 1; v. 275; p. 144.
Mirror, Hat-. L. W. Hosford. No. 1,358,551; Nov. 9; v. 280; p. 324.
Mirror, Hat-. J. Letizia. No. 1,362,537; Dec. 14; v. 281; p. 356.
Mirror-holder. E. Barnard. No. 1,327,608; Jan. 13; v. 270; p. 197.
Mirror-mounting. L. J. Stern. No. 1,328,930; Jan. 27; v. 270; p. 512.
Mirror, Mouth hand-. E. H. Roy. No. 1,342,351; June 1; v. 275; p. 144.
Mirror, Pocket-. S. Flaxbaum. No. 1,327,865; Jan. 13; v. 270; p. 245.
Mirror-support. F. W. Zink. No. 1,359,645; Nov. 23; v. 280; p. 628.
Mirror, Windshield-. A. H. Drake and P. Vandeveer. No. 1,362,856; Dec. 21; v. 281; p. 470.
Mirrors, Bracket and holder for rear-vision. H. A. Macfarland and A. J. Roth. No. 1,345,018; June 29; v. 275; p. 912.
Miter-block and gage. J. H. Harriman. No. 1,355,333; Oct. 12; v. 279; p. 228.
Miter-box. W. D'Arcy. No. 1,332,713; Mar. 2; v. 272; p. 103.
Miter-box. W. D'Arcy and S. H. Benbow. No. 1,332,714; Mar. 2; v. 272; p. 103.
Miter-box attachment. W. A. Eltelbuss. No. 1,333,103; Mar. 9; v. 272; p. 228.
Miter-clamp, Multiple. H. V Holman. No. 1,359,597; Nov. 23; v. 280; p. 619.
Miter-cutting device. J. Dwyer. No. 1,339,747; May 11; v. 274; p. 281.
Miter-frame clamp. O. Bergstrom. No. 1,342,892; June 8; v. 275; p. 304.
Mitt and glove, Baseball. R. H. Young. No. 1,362,280; Dec. 14; v. 281; p. 306.
Mitten. B. Stewart. No. 1,355,181; Oct. 12; v. 279; p. 198.
Mitten-fastener. B. C. Christy. No. 1,361,565; Dec. 7; v. 281; p. 119.
Mixer: *See*—

Air and gas mixer.	Fertilizer-mixer.
Beverage-mixer.	Foundry-mixer.
Butter-mixer.	Fuel-mixer.
Cement-mixer.	Gas-mixer.
Concrete-mixer.	Hot-air mixer.
Dough-mixer.	Mayonnaise-mixer.
Drink-mixer.	Rubber-mixer.
Egg-mixer.	Water-mixer.
Feed-mixer.	Wet-mixer.

Mixer. L. M. Brayman. No. 1,328,119; Jan. 13; v. 270; p. 293.
Mixer. G. H. Flintham and P. J. Gilstrap. No. 1,330,695; Feb. 10; v. 271; p. 284.
Mixer. M. L. Gehl, A. L. Merriam, and H. M. Gehl. No. 1,340,947; May 25; v. 274; p. 636.
Mixer. J. Johnson. No. 1,353,165; Sept. 21; v. 278; p. 378.
Mixer. J. Johnson. No. 1,354,489; Oct. 5; v. 279; p. 8.
Mixer. M. C. Loeffelholz. No. 1,333,856; Mar. 16; v. 272; p. 430.
Mixer. L. O. Miller. No. 1,362,028; Dec. 14; v. 281; p. 256.
Mixer. W. J. Pees. No. 1,337,468; Apr. 20; v. 273; p. 469.
Mixer and drier, Mechanical. H. H. Bubar and C. J. Beust. No. 1,344,675; June 29; v. 275; p. 848.
Mixing and dispensing apparatus, Combined. P. Forman. No. 1,336,214; Apr. 6; v. 273; p. 96.
Mixing and grinding apparatus irregularly operated. R. D. Maddox. No. 1,337,716; Apr. 20; v. 273; p. 516.
Mixing and kneading machine. F. Aeschbach. No. 1,336,878; Apr. 13; v. 273; p. 283.
Mixer and separator. C. W. Hottmann. No. 1,349,203; Aug. 10; v. 277; p. 260.
Mixing apparatus. F. A. Browne. No. 1,363,561; Dec. 28; v. 281; p. 647.
Mixing apparatus. T. J. and L. H. Sturtevant. No. 1,363,823; Dec. 28; v. 281; p. 697.
Mixing apparatus. H. L. Wadsworth. No. 1,332,938; Mar. 9; v. 272; p. 197.
Mixing apparatus for granular, powdered, or like material. W. S. H. Bevin and J. S. Ramsthorne. No. 1,328,486; Jan. 20; v. 270; p. 400.
Mixing apparatus, Movable. F. A. Browne. No. 1,363,560; Dec. 28; v. 281; p. 647.
Mixing device. J. Gomez. No. 1,335,680; Mar. 30; v. 272; p. 880.
Mixing device. C H. Sanford. No. 1,328,204; Jan. 13; v. 270; p. 309.
Mixing device with independently-adjustable stirring-rod. M. Black. No. 1,333,379; Mar. 9; v. 272; p. 280.
Mixing-knife. J. L. Hessey. No. 1,350,098; Aug. 17; v. 277; p. 508.
Mixing-machine. J. Graves. No. 1,351,243; Aug. 31; v. 277; p. 839.
Mixing-machine. H. La Casse. No. 1,356,296; Oct. 19; v. 279; p. 457.
Mixing-machine. J. D. Lacroix and A. H. Petersen. No. 1,344,541; June 22; v. 275; p. 756.
Mixing-machine. A. D. Mosby. No. 1,351,725; Aug. 31; v. 277; p. 934.
Mixing-machine. A. Niederberger. No. 1,350,171; Aug. 17; v. 277; p. 522.
Mixing-machine. G. Royan. No. 1,336,862; Apr. 13; v. 273; p. 280.
Mixing-machines, Control mechanism for. J. F. Robb. No. 1,328,765; Jan. 20; v. 270; p. 451.
Mixing-machines, Differential feeding mechanism for. A. O. Lindberg. No. 1,332,300; Mar. 2; v. 272; p. 24.
Mixing-machines, Loading device for. F. R. Glasener. No. 1,335,435; Mar. 30; v. 272; p. 834.
Mixing materials, Machine for. T. J. Sturtevant. No. 1,360,468; Nov. 30; v. 280; p. 858.
Mixing-mill. J. Schaub. No. 1,340,464; May 18; v. 274; p. 473.
Mixture, Method and apparatus for producing a combustible. S. G. Brigel. No. 1,346,935; July 20; v. 276; p. 438.
Modulating and transmitting system. E. L. Nelson. No. 1,349,729; Aug. 17; v. 277; p. 438.
Modulation system, Plural. L. Espenschied. No. 1,361,522; Dec. 7; v. 281; p. 110.
Modulation system, Plural. H. S. Osborne. No. 1,361,488; Dec. 7; v. 281; p. 103.
Moistening device. A. E. Black. No. 1,330,837; Feb. 17; v. 271; p. 378.
Moistening device. H. E. Delbare. No. 1,356,910; Oct. 26; v. 279; p. 623.
Moistening machine, Tape-. H. L. Gregware. No. 1,352,892; Sept. 14; v. 278; p. 266.
Moisture-collector. G. F. Edmonds. No. 1,346,742; July 13; v. 276; p. 341.
Moisture in solid materials, Method and apparatus for determination of. L. E. McAllister. No. 1,347,106; July 20; v. 276; p. 472.
Moisture-proof mat. S. C. Bettiker. No. 1,356,593; Oct. 26; v. 279; p. 561.
Molasses, Purifying beet-. W. D. Bonner. No. 1,362,078; Dec. 14; v. 281; p. 267.
Mold: *See*—

Asbestos-flange mold.	Mortise-mold.
Block-mold.	Multiple-cup mold.
Brick-mold.	Pipe or conduit mold.
Brick and block mold.	Plastic mold.
Casting-mold.	Plastic-block mold.
Cement-block mold.	Printer's-lead mold.
Chill-mold.	Railway-stringer mold.
Column-mold.	Retreading-mold.
Concrete-mold.	Rivet-mold.
Concrete-block mold.	Rubber-mold.
Concrete-slab mold.	Ship-mold.
Drain-tile mold.	Stack-mold.
Flash-mold.	Tie-mold.
Glassware-mold.	Tire-mold.
Graphite-mold.	Tire-vulcanizing mold.
Ingot-mold.	Toy mold.
Linotype-mold.	Type-mold.

Mold. W. H. Kempton. No. 1,352,457; Sept. 14; v. 278; p. 178.
Mold. W. H. Kempton. No. 1,354,198; Sept. 28; v. 278; p. 628.
Mold. J. B. and A. Lukomski. No. 1,360,655; Nov. 30; v. 280; p. 896.
Mold. H. Petersen. No. 1,342,595; June 8; v. 275; p. 245.
Mold. C. P. Whisler. No. 1,343,425; June 15; v. 275; p. 471.
Mold action in soils, Composition for artificially inducing. R. W. Parramore. No. 1,347,401; July 20; v. 276; p. 530.
Mold and forming porcelain insulators therein. E. J. Taylor. No. 1,351,929; Sept. 7; v. 278; p. 43.
Mold and handling device therefor. W. H. Kempton. No. 1,332,046; Feb. 24; v. 271; p. 627.
Mold and making same, Metal. J. D. McNeill. No. 1,333,502; Mar. 9; v. 272; p. 303.
Mold casting apparatus, Multiple-. H. Rau. No. 1,359,196; Nov. 16; v. 280; p. 493.
Mold-charging device. R. T. McGee. No. 1,356,932; Oct. 26; v. 279; p. 627.
Mold-handling machine. C. K. Prince. No. 1,337,268; Apr. 20; v. 273; p. 431.
Mold-panel. N. F. Ambursen. No. 1,339,912; May 11; v. 274; p. 312.
Mold pouring and weighting unit, Combined. C. K. Prince. No. 1,339,133; May 4; v. 274; p. 91.
Mold-support. J. Dunner. No. 1,330,625; Feb. 10; v. 271; p. 270.
Molds and castings, Making multiple. H. S. Frank. No. 1,358,435; Nov. 9; v. 280; p. 302.

Digitized by Google

Molds, Apparatus for constructing sectional. G. Delaga. No. 1,361,835; Dec. 14; v. 281: p. 218.
Molds, Box for forming. E. Fries. No. 1,345,160; June 29; v. 275; p. 940.
Molds for founding, Machine for making. E. C. Beardsley and W. F. Piper. No. 1,351,227; Aug. 31; v. 277; p. 836.
Molds, Machine for making. E. O. Beardsley and W. F. Piper. No. 1,335,641; Mar. 30; v. 272; p. 872.
Molds, Machine for making. E. S. Carman. No. 1,357,380; Nov. 2; v. 280; p. 34.
Molds, Making. A. Kuznik. No. 1,347,168; July 20; v. 276; p. 483.
Molds, Making. J. T. Stoney. No. 1,343,941; June 22; v. 275; p. 639.
Molds, Means for forming recesses in sand. A. C. Mott, Jr., and L. Kinsley. No. 1,328,582; Jan. 20; v. 270; p. 418.
Molds, Overflow-cavity for. T. Midgley. No. 1,346,232; July 13; v. 276; p. 240.
Molds, Releasing cup-pastry from. R. G. Kratz. No. 1,329,086; Jan. 27; v. 270; p. 541.
Molds with greensand cores, Making. J. L. Stoney. No. 1,344,737; June 29; v. 275; p. 859.
Molded article and making same. J. F. Cavanagh. No. 1,357,147; Oct. 26; v. 279; p. 669.
Molded articles, Production of W. W. Dinwiddie. No. 1,353,152; Sept. 21; v. 278; p. 376.
Molded objects and apparatus for use in connection therewith, Process of producing. P. Rauer. No. 1,342,184; June 1; v. 275; p. 112.
Molded products, Producing. L. T. Richardson. No. 1,342,067; June 1; v. 275; p. 89.
Molder's flask. R. S. Buch. No. 1,335,818; Apr. 6; v. 273; p. 22.
Molder's flask, pattern-frame, and odd side. J. Turner. No. 1,354,590; Oct. 5; v. 279; p. 28.
Molders, Spindle adjustment for motor-driven. M. B. Gathman and R. D. Eaglesfield. No. 1,340,709; May 18; v. 274; p. 520.
Molding apparatus. H. S. Hanstine. No. 1,347,093; July 20; v. 276; p. 469.
Molding apparatus. J. L. Johnson. No. 1,328,433; Jan. 20; v. 270; p. 389.
Molding apparatus. J. McKechnie. No. 1,354,913; Oct. 5; v. 279; p. 93.
Molding apparatus. J. M. Mark. No. 1,329,621; Feb. 3; v. 271; p. 52.
Molding apparatus. W. E. Nelson. No. 1,335,254; Mar. 30; v. 272; p. 799.
Molding apparatus. J. Nitzgen. No. 1,328,887; Jan. 27; v. 270; p. 504.
Molding apparatus. A. A. Pauly. No. 1,339,712; May 11; v. 274; p. 275.
Molding apparatus and clamping means therefor. S. S. Colt. No. 1,358,417; Nov. 9; v. 280; p. 298.
Molding clay products, Process of and apparatus for. D. Brown. No. 1,347,484; July 20; v. 276; p. 546.
Molding composite articles. H. C. Egerton. No. 1,353,800; Sept. 21; v. 278; p. 504.
Molding composite materials. W. T. Cushing. No. 1,358,297; Nov. 9; v. 280; p. 272.
Molding-core. L. C. Evon. No. 1,336,212; Apr. 6; v. 273; p. 96.
Molding device. E. L. Baker. No. 1,339,642; May 11; v. 274; p. 261.
Molding device. L. E. Butler. No. 1,351,157; Aug. 31; v. 277; p. 822.
Molding device, Matrix-. A. E. Markwell. No. 1,328,050; Jan. 13; v. 270; p. 280.
Molding device, Mechanical. B. A. Shutts and J. O. Goodwin. No. 1,338,162; Apr. 27; v. 273; p. 670.
Molding, Double core-support for. H. J. E. Eriksen. No. 1,357,388; Nov. 2; v. 280; p. 36.
Molding-flask. J. M. Germanson. No. 1,333,971; Mar. 16; v. 272; p. 452.
Molding-flask. L. S. Greenberg. No. 1,331,193; Feb. 17; v. 271; p. 446.
Molding-flasks, Machine for feeding sand to. E. R. Dunsford. No. 1,329,459; Feb. 3; v. 271; p. 22.
Molding greensand piston-cores, Apparatus for. T. E. Wood. No. 1,331,736; Feb 24; v. 271; p. 568.
Molding hollow-bodies. C. T. Allcutt. No. 1,343,191; June 15; v. 275; p. 427.
Molding-jacket. E. C. Hafer. No. 1,363,865; Dec. 28 v. 281; p. 706.
Molding-machine. E. O. Beardsley and W. F. Piper. No. 1,335,642; Mar. 30; v. 272; p. 872.
Molding-machine. E. O. Beardsley and W. F. Piper. No. 1,337,585; Apr. 20; v. 273; p. 491.
Molding machine. D. H. Bibb. No. 1,357,141; Oct. 26; v. 279; p. 668.
Molding-machine. A. S. Bixby. No. 1,327,419; Jan. 6; v. 270; p. 100.
Molding-machine. J. E. Bomberg. No. 1,343,386; June 15; v. 275; p. 464.
Molding-machine. W. F. Brady. No. 1,351,020; Aug. 31; v. 277; p. 795.
Molding-machine. A Diehl. No. 1,342,428; June 8; v. 275; p. 213.
Molding-machine. P. W. Gates. No. 1,344,126; June 22; v. 275; p. 674.
Molding-machine. L. Hansen. No. 1,348,411; Aug. 3; v. 277; p. 56
Molding-machine. J. Knapp. No. 1,339,354; May 4; v. 274; p. 130.
Molding-machine. W. P. Krause. No. 1,328,527; Jan. 20; v. 270; p. 408.
Molding-machine. W. P. Krause. No. 1,340,658; May 18; v. 274; p. 511.
Molding-machine. W. Lewis. No. 1,343,835; June 15; v. 275; p. 553.
Molding-machine. W. Lewis. (Reissue.) No. 14,968; Oct. 26; v. 279; p. 682.
Molding-machine. J. H. Lonskey. No. 1,337,780; Apr. 20; v. 273; p. 528.
Molding-machine. H. O. Magnuson. No. 1,352,295; Sept. 7; v. 278; p. 112.
Molding-machine. E. A. Pridmore. No. 1,351,871; Sept. 7; v. 278; p. 32.
Molding-machine. J. T. Stoney. No. 1,343,940; June 22; v. 275; p. 639.
Molding-machine. G. H. Talbot. No. 1,349,017; Aug. 10; v. 277; p. 223.
Molding machine, Brick-. C. Slattery. No. 1,354,224; Sept. 28; v. 278; p. 634.
Molding-machine for foundry use. J. B. Neesham. No. 1,354,124; Sept. 28; v. 278; p. 614.
Molding-machine, Electrically-driven shaker. K. O. Dahlmeyer. No. 1,344,680; June 29; v. 275; p. 849.
Molding machine, Jar-. W. Lewis. No. 1,343,836; June 15; v. 275; p. 553.
Molding-machine, Rock-over. W. C. Norcross. No. 1,361,172; Dec. 7; v. 281; p. 38.
Molding or casting articles or ingots from molten metal, Method and apparatus for. E. C. Wills. No. 1,347,728; July 27; v. 276; p. 652.
Molding-plant fittings. H. L. Kirsh. No. 1,352,815; Sept. 14; v. 278; p. 250.
Molding plastic articles, Press for. A. Y. Tucker and J. E. Congdon. No. 1,332,963; Mar. 9; v. 272; p. 202.
Molding plastic materials. D. S. Landstra. No. 1,340,452; May 18; v. 274; p. 471.
Molding process and apparatus. A. J. Bastian. No. 1,354,156; Sept. 28; v. 278; p. 620.
Molding, Process of and apparatus for. W. H. Kempton. No. 1,357,238; Nov. 2; v. 280; p. 8.
Molding, Sand-packing device used in foundry-. L. M. and A. G. Anderson. No. 1,360,996; Dec. 7; v. 281; p. 3.
Molding semisolid substances. B. J. Allen. No. 1,337,811; Apr. 20; v. 273; p. 533.
Moldboard, Extension-. A. L. York, Jr. No. 1,346,363; July 13; v. 276; p. 266.
Molybdenum compounds, Production of. G. Richter. No. 1,360,581; Nov. 30; v. 280; p. 881.
Molybdenum from its ores, Recovery of. H. A. Doerner. No. 1,329,380; Feb. 3; v. 271; p. 7.
Monetary and other documents, Process and composition for the protection of. D. N. Carvalho. No. 1,353,720; Sept. 21; v. 278; p. 489.
Money paying and accounting machine. T. Bilyeu. No. 1,329,745; Feb. 3; v. 271; p. 75.
Money paying and registering machine. M. H. Mann. No. 1,330,888; Feb. 17; v. 271; p. 389.
Money-slot guard. J. Nutry. No. 1,343,151; June 8; v. 275; p. 355.
Money-wrapper. E. F. McGurk. No. 1,333,087; Mar. 9; v. 272; p. 226.
Monkey-wrench. J. Kocha. No. 1,338,376; Apr. 27; v. 273; p. 710.
Monkey-wrench. F. E. Sayres. No. 1,350,672; Aug. 24; v. 277; p. 666.
Monkey-wrench. A. P. Wiertz. No. 1,356,577; Oct. 26; v. 279; p. 558.
Monofiler, Captive. R. R. Radabaugh. No. 1,358,246; Nov. 9; v. 280; p. 262.
Monolithic buildings, Apparatus for constructing. H. E. Dodge. No. 1,332,617; Mar. 2; v. 272; p. 85.
Monolithic structures, Method and apparatus for forming. A. F. Volz, Jr. No. 1,337,493; Apr. 20; v. 273; p. 473.
Monolithic structures of basalt, Construction of. F. Ribbe and P. Dhé. No. 1,331,377; Feb. 17; v. 271; p. 480.
Monorail system, Suspended. R. W. Shoemaker. No. 1,355,801; Oct. 12; v. 279; p. 317.
Monoxid to dioxid, Oxidizing barium. H. Fleck. No. 1,349,417; Aug. 10; v. 277; p. 303.
Monument. W. J. Kennedy and G. Yelle. No. 1,345,196; June 29; v. 275; p. 947.
Monument, Vault-. E. M. Viquesney. No. 1,331,172; Feb. 17; v. 271; p. 442.
Mop. E. E. Bessett. No. 1,344,112; June 22; v. 275; p. 671.
Mop. W. H. Glenn. No. 1,360,926; Nov. 30; v. 280; p. 947.
Mop. E. B. Golden. No. 1,358,076; Nov. 9; v. 280; p. 229.
Mop. A. W. Grant. No. 1,339,925; May 11; v. 274; p. 315.
Mop. A. Hamilton. No. 1,333,021; Mar. 9; v. 272; p. 213.
Mop. A. Link. No. 1,349,680; Aug. 17; v. 277; p. 428.
Mop. S. F. Petersen. No. 1,342,182; June 1; v. 275; p. 112.
Mop. W. Severns. No. 1,362,900; Dec. 21; v. 281; p. 478.

Digitized by Google

Mop. W. Thomas. No. 1,333,741; Mar. 16; v. 272; p. 409.
Mop and brush holder. L. Weschler. No. 1,342,036; June 1; v. 275; p. 83.
Mop and scrubber, Combined. I. Albin. No. 1,331,477; Feb. 24; v. 271; p. 519.
Mop and wringer therefor. R. W. Donley. No. 1,329,961; Feb. 3; v. 271; p. 115.
Mop, Dust-. E. H. Tate. No. 1,330,502; Feb. 10; v. 271; p. 248.
Mop-frame. E. P. Beaudet. No. 1,344,936; June 29; v. 275; p. 897.
Mop frame and handle coupling. F. P. Toof. No. 1,347,563; July 27; v. 276; p. 619.
Mop-head. W. B. Beam. No. 1,344,198; June 22; v. 275; p. 688.
Mop-head. I. M. Kaufman. No. 1,339,398; May 11; v. 274; p. 214.
Mop-heads. C. A. Channell. (Reissue.) No. 15,010; Dec. 21; v. 281; p. 589.
Mop-holder. H. J. Sommer and J. Reigh. No. 1,358,399; Nov. 9; v. 280; p. 294.
Mop or brush. A. Hamilton. No. 1,339,026; May 4; v. 274; p. 70.
Mop-wringer. W. Dequede. No. 1,350,791; Aug. 24; v. 277; p. 690.
Mop, Wringer-. G. A. Sanguinet. No. 1,352,837; Sept. 14; v. 278; p. 255.
Mop-wringer. F. Speckman. No. 1,351,805; Sept. 7; v. 278; p. 18.
Mop-wringer. F. R. Wolter. No. 1,360,485; Nov. 30; v. 280; p. 862.
Mop-wringing mechanisms, Means for removably supporting. W. A. Nadvornik. No. 1,360,309; Nov. 30; v. 280; p. 828.
Mordant or dye and making same. G. M. Lopez and A. Quaglia. No. 1,348,431; Aug. 3; v. 277; p. 59.
Mortise-lock. M. J. Popovich. No. 1,335,027; Mar. 30; v. 272; p. 758.
Mortise-mold. W. E. Borst. No. 1,353,888; Sept. 28; v. 278; p. 565.
Mortising-machine. H. H. Johnson. No. 1,356,528; Oct. 26; v. 279; p. 548.
Mortising-machine. G. E. Norris. No. 1,356,394; Oct. 19; v. 279; p. 475.
Moss, Utilizing Spanish. M. W. Marsden. No. 1,327,873; Jan. 13; v. 270; p. 247.
Moth-repellent holders, Support for. J. S. Slye and S. H. Bishop. No. 1,344,318; June 22; v. 275; p. 712.
Mother-starter ripener. N. Christensen. No. 1,336,728; Apr. 13; v. 273; p. 254.
Motion-controlling mechanism. J. W. Watson. No. 1,345,814; July 6; v. 276; p. 95.
Motion-converting device. T. E. Lewis. No. 1,336,847; Apr. 13; v. 273; p. 277.
Motion-converting means. G. N. Goodrich. No. 1,355,468; Oct. 12; v. 279; p. 254.
Motion mechanism, Differential-. W. H. Brown. No. 1,329,159; Jan. 27; v. 270; p. 555.
Motion of one type into motion of another type, Apparatus for the conversion of. A. Barr and W. Stroud. No. 1,339,643; May 11; v. 274; p. 261.
Motion-registering apparatus L. T. Foss. No. 1,340,036; May 11; v. 274; p. 335.
Motion-transmitting mechanism. W. E. Buffat. No. 1,334,594; Mar. 23; v. 272; p. 615.
Motor: *See*—

Aeronautical motor.	Phonograph-motor.
Aeroplane-motor.	Photograph-motor.
Air-motor.	Pneumatic motor.
Alternating-current motor.	Reciprocating motor.
Current-motor.	Regulator-motor.
Diesel motor.	Rotary motor.
Electric motor.	Sewing-machine motor.
Electric impulsion-motor.	Spring-motor.
Electrically-operated vibratory motor.	Steam rotary motor.
Explosive-motor.	Talking-machine motor.
Fluid-motor.	Toy-actuating air-motor.
Fluid-pressure motor.	Track-motor.
Gas-motor.	Treadmill-motor.
Gasolene-motor.	Turbine-motor.
Hot-air motor.	Two-stroke motor.
Hydraulic motor.	Two-stroke and double-acting motor.
Hydraulic air-motor.	Universal motor.
Hydrocarbon-motor.	V-type motor.
Induction-motor.	Vehicle-motor.
Internal-combustion motor.	Water-motor.
Locomotive booster-motor.	Wave-motor.
Machine-motor.	Wave-energy motor.
Oil-motor.	Weight-motor.
Oscillating motor.	Wind-motor.

Motor. G. O. Hodge. No. 1,360,637; Nov. 30; v. 280; p. 892.
Motor. O. E. Kellum. No. 1,356,290; Oct. 19; v. 279; p. 486.
Motor. L. C. McGuire. No. 1,355,235; Oct. 12; v. 279; p. 209.
Motor. M. Nystrom. No. 1,361,174; Dec. 7; v. 281; p. 38.
Motor. J. Schroeder. No. 1,351,695; Aug. 31; v. 277; p. 929.
Motor. W. Sparks. No. 1,355,283; Oct. 12; v. 279; p. 218.
Motor and control, Alternating-current. V. A. Fynn. No. 1,361,245; Dec. 7; v. 281; p. 52.
Motor and fuel control, Combined. J. W., Jr., and A. R. Anderson. No. 1,346,477; July 13; v. 276; p. 288.
Motor attachment. W. B. Uffert. No. 1,362,452; Dec. 14; v. 281; p. 339.
Motor attachment for use by dentists or barbers. E. A. Neel. No. 1,360,778; Nov. 30; v. 280; p. 919.
Motor attachment, Marine-. R. W. Borchert. No. 1,328,818; Jan. 20; v. 270; p. 367.
Motor-brake. G. Schlatter. No. 1,331,787; Feb. 24; v. 271; p. 578.
Motor-cleaning device. C. R. Johnson. No. 1,363,119; Dec. 21; v. 281; p. 521.
Motor comprising a single coil. L. O. Crenshaw. No. 1,361,229; Dec. 7; v. 281; p. 49.
Motor control. C. T. Crocker. No. 1,334,134; Mar. 16; v. 272; p. 483.
Motor control. J. Eaton. No. 1,330,627; Feb. 10; v. 271; p. 271.
Motor control. W. G. Taylor. No. 1,347,305; July 20; v. 276; p. 511.
Motor control, Induction-. R. H. McLain. No. 1,347,751; July 27; v. 276; p. 657.
Motor-control system. J. H. Albrecht. No. 1,360,257; Nov. 30; v. 280; p. 817.
Motor-control system. J. H. Albrecht and W. O. Lum. No. 1,330,616; Feb. 10; v. 271; p. 269.
Motor-control system. E. R. Carichoff. No. 1,337,040; Apr. 13; v. 273; p. 314.
Motor-control system. R. E. De Camp. No. 1,354,173; Sept. 28; v. 278; p. 623.
Motor-control system. A. A. Gazda. No. 1,354,180; Sept. 28; v. 278; p. 625.
Motor-control system. W. L. Hamilton. No. 1,362,301; Dec. 14; v. 281; p. 310.
Motor-control system. R. E. Hellmund. No. 1,336,561; Apr. 13; v. 273; p. 221.
Motor-control system. H. D. James. No. 1,330,589; Feb. 10; v. 271; p. 264.
Motor-control system. H. L. Keith. No. 1,330,592; Feb. 10; v. 271; p. 264.
Motor-control system. R. T. Kintzing. No. 1,341,650; June 1; v. 275; p. 7.
Motor-control system. R. T. Kintzing. No. 1,360,300; Nov. 30; v. 280; p. 826.
Motor-control system. E. S. Lammers, Jr. No. 1,341,651; June 1; v. 275; p. 7.
Motor-control system. A. T. Lewis. No. 1,357,1[illegible]; Oct. 26; v. 279; p. 601.
Motor-control system. R. H. McLain. No. 1,3[illegible]74; Mar. 23; v. 272; p. 649.
Motor-control system. L. Miller and W. Brooke. No. 1,334,919; Mar. 23; v. 272; p. 678.
Motor-control system. C. C. Rumner. No. 1,34[illegible],760; July 27; v. 276; p. 659.
Motor-control system. G. E. Slocum. No. 1,363,681; Dec. 28; v. 281; p. 669.
Motor-control system. R. I. Wright. (Reissue.) No. 14,861; May 18; v. 274; p. 550.
Motor-control system, Single-phase. R. E. Hellmund. No. 1,338,367; Apr. 27; v. 273; p. 709.
Motor-controller. T. E. Barnum. No. 1,335,418; Mar. 30; v. 272; p. 830.
Motor-controller. C. T. Henderson. No. 1,339,930; May 11; v. 274; p. 316.
Motor-controller. W. F. Lent. No. 1,347,863; July 27; v. 276; p. 679.
Motor-controller. W. M. Shallcross. No. 1,341,937; June 1; v. 275; p. 64.
Motor-controller. W. C. Stevens. No. 1,327,787; Jan. 13; v. 270; p. 231.
Motor-controller. C. W. Yerger. No. 1,363,299; Dec. 28; v. 281; p. 596.
Motor-drive. C. P. Brockway. No. 1,352,112; Sept. 7; v. 278; p. 77.
Motor-driven carrier. Automatically-operating. C. O. Tracy. No. 1,351,930; Sept. 7; v. 278; p. 48.
Motor-driven machines, Controller for. W. E. Date. No. 1,357,384; Nov. 2; v. 280; p. 35.
Motor handling machine. C. D. McConnell and J. M. Bryson. No. 1,331,988; Feb. 24; v. 271; p. 606.
Motor-meter lock. C. L. Koerner. No. 1,334,500; Mar. 23; v. 272; p. 597.
Motor, meter, pump, and propeller, Machine adapted for use as a. W. D. Ballerstedt. No. 1,360,353; Nov. 30; v. 280; p. 835.
Motor-plows, Tractor for. J. N. Parker. No. 1,363,910; Dec. 28; v. 281; p. 714.
Motor-propelling means. P. B. McChesney. No. 1,349,077; Aug. 10; v. 277; p. 235.
Motor-repair stand. A. H. Jenkins. No. 1,341,322; May 25; v. 274; p. 708.
Motor-starter. H. L. Van Valkenburg. No. 1,361,934; Dec. 14; v. 281; p. 237.
Motor-starting switch. C. H. Bissell. No. 1,336,064; Apr. 6; v. 273; p. 68.
Motor-starting switch. H. J. L. and L. H. Frank. No. 1,338,825; May 4; v. 274; p. 32.
Motor-support. G. F. Flynn. No. 1,349,418; Aug. 10; v. 277; p. 303.
Motor-support. R. A. Ilg. No. 1,359,600; Nov. 23; v. 280; p. 619.

Digitized by Google

Motor-support. G. C. Marx. No. 1,341,477; May 25; v. 274; p. 739.
Motor-support. C. A. Ward. No. 1,332,240; Mar. 2; v. 272; p. 12.
Motor, Synchronous alternating-current. V. A. Fynn. No. 1,337,648; Apr. 20; v. 273; p. 502.
Motor-trucks, Extension-bracket for platform-bolsters of. C. A. Hennicke. No. 1,363,785; Dec. 28; v. 281; p. 690.
Motor-vehicle. P. H. Lund. No. 1,363,988; Dec. 28; v. 281; p. 729.
Motor-vehicle gearing. P. G. Howe. No. 1,363,875; Dec. 28; v. 281; p. 708.
Motor-vehicle signal. R. Y. Neely. No. 1,350,513; Aug. 24; v. 277; p. 636.
Motor-vehicle signal. J. G. Roseboom. No. 1,353,361; Sept. 21; v. 278; p. 416.
Motors, Apparatus for supplying fuel to hydrocarbon-. G. B. Maegly. No. 1,352,671; Sept. 14; v. 278; p. 221.
Motors, Automatic circuit-breaker for. A. C. Tabbot. No. 1,332,696; Mar. 2; v. 272; p. 99.
Motors, Automatic reversing mechanism for door-operating. P. R. Forman. No. 1,329,704; Feb. 3; v. 271; p. 67.
Motors by means of electric-current-controlling devices, Controlling electric. L. Bradley. No. 1,361,224; Dec. 7; v. 281; p. 48.
Motors, Cam-shaft structure and oiling mechanism for internal-combustion. A. Winton. No. 1,339,839; May 11; v. 274; p. 298.
Motors, Composite piston for internal-combustion. F. A. Parkhurst. No. 1,329,822; Feb. 3; v. 271; p. 89.
Motors, Composite piston for internal-combustion. F. A. Parkhurst. No. 1,329,823; Feb. 3; v. 271; p. 89.
Motors, Construction of radiators for cooling the circulating water in explosion-. C. Cuau. No. 1,353,322; Sept. 21; v. 278; p. 409.
Motors, Control of electric. B. W. Jones. No. 1,347,781; July 27; v. 276; p. 663.
Motors, Control system for single-phase alternating-current. R. E. Hellmund. No. 1,339,928; May 11; v. 274; p. 315.
Motors, Controller for. P. H. Zimmer. No. 1,343,021; June 8; v. 275; p. 329.
Motors, Controller for electric. F. E. Case. No. 1,352,247; Sept. 7; v. 278; p. 103.
Motors, Controller for electric. A. T. Crocker. No. 1,352,249; Sept. 7; v. 278; p. 103.
Motors, Controller for electric. C. T. Crocker. No. 1,352,250; Sept. 7; v. 278; p. 103.
Motors, Controller for electric. C L. Perry. No. 1,350,937; Aug. 24; v. 277; p. 717.
Motors, Controller for small. J. L. Chantemerle. No. 1,351,023; Aug. 31; v. 277; p. 796.
Motors, Controlling means for electric. L. Kebler. No. 1,328,631; Jan. 20; v. 270; p. 427.
Motors, Controlling means for electric. F. G. Warburton. No. 1,335,357; Mar. 30; v. 272; p. 819.
Motors, Controlling means for electric. F. G. Warburton. No. 1,337,573; Apr. 20; v. 273; p. 488.
Motors, Device for winding and rewinding. W. C. Miles. No. 1,327,567; Jan. 6; v. 270; p. 128.
Motors, Electric welding of alternating-current. D. C. Larson. No. 1,361,075; Dec. 7; v. 281; p. 19.
Motors, Electrotester for testing automobile-. L. R. Willits. No. 1,357,604; Nov. 2; v. 280; p. 76.
Motors, Equalizer for variable-tension. E. H. Piersen. No. 1,359,464; Nov. 16; v. 280; p. 548.
Motors, Fluid-control means for. F. Pokorny, Jr. No. 1,361,180; Dec. 7; v. 281; p. 40.
Motors, Lubricating system for traveling. G. H. Curtiss. No. 1,329,038; Jan. 27; v. 270; p. 532.
Motors, Machining hydrocarbon-. J. G. Vincent. No. 1,336,800; Apr. 13; v. 273; p. 268.
Motors, Making valve tappet and roller holders for hydrocarbon-. G. L. McCain. No. 1,345,942; July 6; v. 276; p. 122.
Motors, Method and apparatus for starting. J. H. Hartner. No. 1,343,451; June 15; v. 275; p. 476.
Motors, Mounting for locomotive booster-. H. M. Pflager. No. 1,357,928; Nov. 2; v. 280; p. 139.
Motors, Piston for internal-combustion. J. H. Bamberg. No. 1,329,821; Feb. 3; v. 271; p. 89.
Motors, Piston for internal-combustion. E. H. Crossen. No. 1,327,462; Jan. 6; v. 270; p. 108.
Motors, Piston for internal-combustion. L. P. Mooers. No. 1,347,819; July 27; v. 276; p. 669.
Motors, Priming-cup for internal-combustion. S. A. Martinek. No. 1,329,464; Feb. 3; v. 271; p. 23.
Motors, Pulley attachment for. W. C. Olson. No. 1,343,152; June 8; v. 275; p. 355.
Motors, Radiating system for internal-combustion. C. Carson. No. 1,336,613; Apr. 13; v. 273; p. 232.
Motors, Radiator for water-cooled. R. F. Erkens. No. 1,355,900; Oct. 19; v. 279; p. 378.
Motors, Regenerative control for alternating-current commutator-. R. E. Hellmund. No. 1,347,904; July 27; v. 276; p. 687.
Motors, Running-in machine for gasolene-. R. E. Land. No. 1,344,907; June 29; v. 275; p. 892.
Motors, Safety device for spring-. H. A. Wicoff. No. 1,353,106; Sept. 14; v. 278; p. 307.
Motors, Speed-control system for induction-. B. G. Lamme and W. Sykes. No. 1,336,566; Apr. 13; v. 273; p. 222.
Motors, Starter for automobile-. N. D. Munn. No. 1,333,817; Mar. 16; v. 272; p. 423.
Motors, Starting device for electric. G. W. Huey. No. 1,343,212; June 15; v. 275; p. 431.
Motors, Starting device for electric. P. H. Zimmer. No. 1,343,022; June 8; v. 275; p. 330.
Motors, Starting device for vehicle-. H. Mallard. No. 1,335,345; Mar. 30; v. 272; p. 817.
Motors, Starting mechanism for electric. G. E. Slocum. No. 1,343,411; June 15; v. 275; p. 469.
Motors, Starting synchronous. R. E. Doherty. No. 1,331,055; Feb. 17; v. 271; p. 421.
Motors, Support for. G. Bergendorf. No. 1,353,986; Sept. 28; v. 278; p. 585.
Motors, Support for sewing-machine. C. H. Beach; No 1,353,211; Sept. 21; v. 278; p. 388.
Motors, Switch mechanism for starting electric. J. Eaton. No. 1,357,695; Nov. 2; v. 280; p. 93.
Motors, System of control for alternating-current commutator-. R. E. Hellmund. No. 1,338,368; Apr. 27; v. 273; p. 709.
Motors, Throttle control for. L. A. Cowles. No. 1,360,894; Nov. 30; v. 280; p. 942.
Motors, Valve-actuating device for hydrocarbon-. C. R. Short. No. 1,330,913; Feb. 17; v. 271; p. 394.
Motors, Valve construction for fuel-oil. C. H. Knudsen. No. 1,363,470; Dec. 28; v. 281; p. 628.
Motors, Water-heating attachment for internal-combustion. O. B. Clayton and G. T. Oberwetter. No. 1,361,017; Dec. 7; v. 281; p. 7.
Motors, Winding mechanism for spring-. J. J. Scully. No. 1,351,405; Aug. 31; v. 277; p. 872.
Motors with valve-gear worked by cams, Arrangement of reversing-gear for. R. Guyot-Sionnest. No. 1,359,500; Nov. 23; v. 280; p. 599.
Motorcycle. P. A. Fisker. No. 1,331,747; Feb. 24; v. 271; p. 570.
Motorcycle. E. V. Hammond. No. 1,339,387; May 11; v 274; p. 212.
Motorcycle. J. O. Johnston. No. 1,332,042; Feb. 24; v. 271; p. 626.
Motorcycle. J. Krok. No. 1,357,239; Nov. 2; v. 280; p. 8.
Motorcycle. G. W. Mouldin. No. 1,350,878; Aug. 24; v. 277; p. 705.
Motorcycle. F. J. Onar. No. 1,343,788; June 15; v. 275; p. 544.
Motorcycle. P. J. O'Neill. No. 1,337,946; Apr. 20; v. 273; p. 560.
Motorcycle back-rest. C. Kuderer. No. 1,342,388; June 1; v. 275; p. 151.
Motorcycle-backrest. C. Kuderer. No. 1,348,121; July 27; v. 276; p. 730.
Motorcycle saddle attachment. R. Scholz. No. 1,337,025; Apr. 13; v. 273; p. 310.
Motorcycle-seat. M. E. Wood. No. 1,353,108; Sept. 14; v. 278; p. 307.
Motorcycle spring-frame. R. E. Walker. No. 1,340,508; May 18; v. 274; p. 482.
Motorcycle-stabilizer. E. D. McKee. No. 1,362,024; Dec. 14; v. 281; p. 256.
Motorcycle-stand. C. B. Tinsley. No. 1,347,355; July 20; v. 276; p. 521.
Motorcycle-support. J. G. Lydecker. No. 1,338,029; Apr. 27; v. 273; p. 645.
Motorcycle-top. M. Chimino. No. 1,342,987; June 8; v. 275; p. 322.
Motorcycles or tricars, Rear springing device for. E. H. Jenkins. No. 1,347,100; July 20; v. 276; p. 470.
Motorcycles, Windshields for side cars of. J. E. Helpling; No. 1,347,461; July 20; v. 276; p. 542.
Mounting. W. T. Henderson. No. 1,329,401; Feb. 3; v. 271; p. 11.
Mountings, Forming filled. G. H. Day. No. 1,345,148; June 29; v. 275; p. 937.
Mounts and prints, Machine for beveling the edges of. A. P. Hoard. No. 1,343,972; June 22; v. 275; p. 644.
Mousetrap. J. R. Carson. No. 1,342,098; June 1; v. 275; p. 95.
Mousetrap. D. Cook. No. 1,337,044; Apr. 13; v. 273; p. 315.
Mousetrap. J. C. Doust. No. 1,342,255; June 1; v. 275; p. 126.
Mousetrap. C. J. Reppe. No. 1,355,264; Oct. 12; v. 279; p. 215.
Mousetrap. J. W. Shumate. No. 1,354,700; Oct. 5; v. 279; p. 51.
Mousetrap-pedal. J. E. Cowel. No. 1,345,137; June 29; v. 275; p. 935.
Mousetrap, Self-setting. L. Medzela. No. 1,362,953; Dec. 21; v. 281; p. 488.
Mouth and lip protector, Sanitary. R. J. Moolten. No. 1,342,968; June 8; v. 275; p. 319.
Mouthpiece. G. W. Williams. No. 1,360,844; Nov. 30; v. 280; p. 932.
Movement-cure appliance. C. P. Winter. No. 1,354,865; Oct. 5; v. 279; p. 83.
Mower. J. Aspinwall. No. 1,348,471; Aug. 3; v. 277; p. 66.
Mower. C. A. Blume. No. 1,362,667; Dec. 21; v. 281; p. 433.
Mower. H. Lynck and B. B. Rollman. No. 1,358,401; Nov. 9; v. 280; p. 294.

Digitized by Google

Mower and twin-plow tractor, Double. J. H. Brown. No. 1,332,799; Mar. 2; v. 272; p. 119.
Mower blades, Machine for sharpening lawn-. C. F. Brown. No. 1,344,168; June 22; v. 275; p. 682.
Mower-guard. C. A. Swanson. No. 1,363,288; Dec. 28; v. 281; p. 594.
Mower guard-fingers, Fastener for. R. C. Harris. No. 1,357,165; Oct. 26; v. 279; p. 673.
Mower, Lawn-. N. J. Beckner. No. 1,344,852; June 29; v. 275; p. 882.
Mower, Lawn-. H. T. Coldwell. No. 1,354,169; Sept. 28; v. 278; p. 622.
Mower, Lawn-. C. Coniglio. No. 1,338,123; Apr. 27; v. 273; p. 663.
Mower, Lawn-. R. Gater. No. 1,357,396; Nov. 2; v. 280; p. 37.
Mower, Lawn-. J. N. M. Keyzer. No. 1,351,520; Aug. 31; v. 277; p. 894.
Mower, Lawn-. E. E. Muzzy. No. 1,336,257; Apr. 6; v. 273; p. 105.
Mower, Lawn-. C. A. Tofft. No. 1,338,199; Apr. 27; v. 273; p. 677.
Mower, Lawn-. C. C. Worthington. No. 1,347,569; July 27; v. 276; p. 620.
Mower, Motor gang lawn-. C. C. Worthington. No. 1,330,293; Feb. 10; v. 271; p. 208.
Mower structure, Lawn-. W. P. M. Braun. No. 1,338,285; Apr. 27; v. 273; p. 693.
Mower, Track-. S. E. Rawls. No. 1,358,112; Nov. 9; v. 280; p. 236.
Mower, Two-way. W. McDonald. No. 1,354,052; Sept. 28; v. 278; p. 599.
Mowers and harvesters, Cutting mechanism for. D. M. Carey. No. 1,331,842; Feb. 24; v. 271; p. 589.
Mowers, Cutter-bar control for weed-. W. F. Kasper. No. 1,328,836; Jan. 27; v. 270; p. 493.
Mowers, Endless cutter for. A. E. Cook. No. 1,353,891; Sept. 28; v. 278; p. 566.
Mowers, Propelling device for power lawn-. F. M. Seeley. No. 1,345,109; June 29; v. 275; p. 930.
Mowers, Stationary knife for lawn-. C. C. Ross. No. 1,355,509; Oct. 12; v. 279; p. 262.
Mowing-machine. M. H. P. Archer. No. 1,348,685; Aug. 3; v. 277; p. 107.
Mowing-machine. A. Bowman. No. 1,329,698; Feb. 3; v. 271; p. 66.
Mowing-machine. N. S. Cooper. No. 1,333,540; Mar. 9; v. 272; p. 310.
Mowing-machine. J. S. Wheeler. No. 1,358,351; Nov. 9; v. 280; p. 284.
Mowing-machine attachment. R. W. Wallace. No. 1,337,863; Apr. 20; v. 273; p. 544.
Mowing machine, Grass-. J. A. Roseman. No. 1,327,924; Jan. 13; v. 270; p. 256.
Mowing-machine, Motor. R. H. Zander. No. 1,335,266; Mar. 30; v. 272; p. 802.
Mowing-machines, Gear-shift mechanism for. P. L. Etchison. No. 1,352,800; Sept. 14; v. 278; p. 247.
Mowing-machines, Sickle-bar attachment for. E. Carrau. No. 1,354,242; Sept. 28; v. 278; p. 637.
Mowing-machines, Sickle-bar head for. F. Huff. No. 1,341,212; May 25; v. 274; p. 687.
Mucilage-tube. M. Machles. No. 1,362,431; Dec. 14; v. 281; p. 335.
Mud-chain hook. B. S. Smith. No. 1,334,322; Mar. 23; v. 272; p. 564.
Mud-dog. C. J. Bardon. No. 1,335,546; Mar. 30; v. 272; p. 854.
Mud-guard. E. L. Tomlinson. No. 1,355,715; Oct. 12; v. 279; p. 302.
Mud-guard brace. W. R. Green. No. 1,352,596; Sept. 14; v. 278; p. 206.
Mud-guard, Side-splash. C. W. Brown. No. 1,362,841; Dec. 21; v. 281; p. 467.
Mud-ing. B. M. Mathias. No. 1,340,834; May 18; v. 274; p. 543.
Muff, Automobile-. A. R. Thomas. No. 1,336,763; Apr. 13; v. 273; p. 260.
Muff-holder. M. H. Stafford. No. 1,332,449; Mar. 2; v. 272; p. 53.
Muffle. R. G. Ledig. No. 1,358,220; Nov. 9; v. 280; p. 257.
Muffle and open-tunnel kiln, Combined. P. d'H. Dressler. No. 1,360,625; Nov. 30; v. 280; p. 890.
Muffle and open-tunnel kiln, Combined. P. d'H. Dressler. No. 1,360,626; Nov. 30; v. 280; p. 890.
Muffle-furnace. W. O. Amsler. No. 1,341,031; May 25; v. 274; p. 652.
Muffle-kiln, Continuous. H. Webster. No. 1,362,158; Dec. 14; v. 281; p. 282.
Muffler. H. Andersen. No. 1,351,985; Sept. 7; v. 278; p. 54.
Muffler. H. Andersen. No. 1,361,662; Dec. 7; v. 281; p. 137.
Muffler. R. Brown. No. 1,335,872; Apr. 6; v. 273; p. 31.
Muffler. C. D. Fuller. No. 1,360,517; Nov. 30; v. 280; p. 868.
Muffler. O. S. Jeffries, Sr. No. 1,353,478; Sept. 21; v. 278; p. 439.
Muffler. W. C. Miles. No. 1,331,275; Feb. 17; v. 271; p. 460.
Muffler. G. W. Moores. No. 1,338,520; Apr. 27; v. 273; p. 737.
Muffler. H. M. Patch. No. 1,357,079; Oct. 26; v. 279; p. 656.
Muffler. H. Paulson. No. 1,351,122; Aug. 31; v. 277; p. 815.
Muffler. F. P. Sawders and J. G. Murray. No. 1,342,464; June 8; v. 275; p. 219.
Muffler. G. H. Taber. No. 1,353,863; Sept. 28; v. 278; p. 560.
Muffler. T. T. Tvedt. No. 1,345,418; July 6; v. 276; p. 18.
Muffler and control therefor, Multiple. N. H. Hassel. No. 1,332,663; Mar. 2; v. 272; p. 93.
Muffler-cover. G. H. Padgett. No. 1,360,311; Nov. 30; v. 280; p. 828.
Muffler cut-out. A. R. Cooper. No. 1,358,673; Nov. 9; v. 280; p. 348.
Muffler cut-out. O. F. Kirkpatrick. No. 1,351,173; Aug. 31; v. 277; p. 825.
Muffler cut-out. N. A. Petry. No. 1,339,284; May 4; v. 274; p. 117.
Muffler cut-outs, Hand-operating device for. G. H. Taber. No. 1,340,802; May 18; v. 274; p. 537.
Muffler, Engine-. L. C. Bisplinghoff. No. 1,333,533; Mar. 9; v. 272; p. 308.
Muffler, Exhaust-. G. A. Blain and J. Scherer. No. 1,344,976; June 29; v. 275; p. 904.
Muffler, Exhaust-. S. E. Delavan. No. 1,340,158; May 18; v. 274; p. 417.
Muffler, Exhaust-. T. S. Kemble. No. 1,357,992; Nov. 9; v. 280; p. 212.
Muffler, Shawl. L. Garwitt. No. 1,346,014; July 6; v. 276; p. 135.
Mugs, Manufacture of clay. R. T. Hall. No. 1,344,885; June 29; v. 275; p. 888.
Mule, Kicking. J. T. White. No. 1,342,882; June 8; v. 275; p. 302.
Mulsh layer. H. E. Starratt. No. 1,341,484; May 25; v. 274; p. 741.
Multicolored apparatus. H. N. Miller. No. 1,346,234; July 13; v. 276; p. 240.
Multicylinder-engine. J. A. Holmström. No. 1,358,954; Nov. 16; v. 280; p. 449.
Multigraph-segments, Support for. M. P. Rollins. No. 1,338,964; May 4; v. 274; p. 58.
Multiphase-slow-sine-wave producer. R. H. Wappler. No. 1,338,269; Apr. 27; v. 273; p. 690.
Multiplane, Convertible. J. P. Tarbox. No. 1,336,406; Apr. 6; v. 273; p. 132.
Multiple-circuit-resistance control. R. W. Ebeling. No. 1,329,168; Jan. 27; v. 270; p. 557.
Multiple coupling. T. C. Kremer. No. 1,348,811; Aug. 3; v. 277; p. 131.
Multiple-cup mold. J. Benton. No. 1,349,546; Aug. 10; v. 277; p. 328.
Multiple drill. W. H. J. Gwyer. No. 1,340,953; May 25; v. 274; p. 637.
Multiple pipe-fitting. F. McNamara. No. 1,362,718; Dec. 21; v. 281; p. 443.
Multiple shaper. G. E. Stevenson. No. 1,335,864; Apr. 6; v. 273; p. 30.
Multiple switch. P. J. Ruffalo. No. 1,355,002; Oct. 5; v. 279; p. 110.
Multiple trap. F. Wojcik. No. 1,353,882; Sept. 28; v. 278; p. 564.
Multiplying-machine. G. M. Bacon. No. 1,338,274; Apr. 27; v. 273; p. 691.
Multisocket switch. R. D. Smith. No 1,353,433; Sept. 21; v. 278; p. 430.
Multivolt battery, Secondary or storage. W. E. Kershaw. No. 1,341,469; May 25; v. 274; p. 737.
Music-case. E. L. O'Donnell. No. 1,330,388; Feb. 10; v. 271; p. 226.
Music-chart. E. McOuat. No. 1,353,486; Sept. 21; v. 278; p. 441.
Music, Device for teaching. A. L. Maxwell. No. 1,337,937; Apr. 20; v. 273; p. 558.
Music, Device for turning over sheets of. M. J. Marks. No. 1,329,622; Feb. 3; v. 271; p. 52.
Music, Device for turning sheet-. L. S. Anderson. No. 1,328,976; Jan. 27; v. 270; p. 521.
Music-holders, Illuminating attachment for. F. A. Bua. No. 1,352,849; Sept. 7; v. 278; p. 122.
Music-leaf clip. P. Van Valkenburg. No. 1,347,135; July 20; v. 276; p. 477.
Music-leaf turner. A. De Stefano. No. 1,363,063; Dec. 21; v. 281; p. 510.
Music-leaf turner. J. O. Gemsey. No. 1,353,582; Sept. 21; v. 278; p. 461.
Music-leaf turner. T. M. Jolley. No. 1,339,261; May 4; v. 274; p. 113.
Music-leaf turner. J. A. Thomas. No. 1,354,860; Oct. 5; v. 279; p. 82.
Music-machine. D. A. Gilliom. No. 1,338,620; Apr. 27; v. 273; p. 755.
Music moving and time-keeping apparatus, Sheet-. J. Flynn. No. 1,352,363; Sept. 7; v. 278; p. 124.
Music-rack. R. W. Cathcart. No. 1,346,740; July 13; v. 276; p. 340.
Music-rack sheet-holding attachment. F. W. McNichol. No. 1,359,816; Nov. 23; v. 280; p. 662.
Music-recorder. P. J. Meahl. No. 1,351,432; Aug. 31; v. 277; p. 877.

Digitized by Google

Music-roll. P. S. McLean. No. 1,340,175; May 18; v. 274; p. 420.
Music-roll-controlling mechanism. W. G. Betz. No. 1,344,574; June 22; v. 275; p. 763.
Music-roll for pneumatic musical instruments. W. G. Betz. No. 1,357,214; Nov. 2; v. 280; p. 3.
Music-rolls, Adjustable spool for. C. E. White. No. 1,333,953; Mar. 16; v. 272; p. 448.
Music-rolls, Container for. C. S. Burton. No. 1,350,701; Aug. 24; v. 277; p. 672.
Music-sheet. R. Callender. No. 1,329,286; Jan. 27; v. 270; p. 578.
Music, Sheet-. J. S. Dobson. No. 1,354,176; Sept. 28; v. 278; p. 624.
Music-sheet. P. Joffe. No. 1,331,993; Feb. 24; v. 271; p. 617.
Music-sheet container and turner, Portable. A. M. Bean. No. 1,344,374; June 22; v. 275; p. 723.
Music-sheet for automatic musical instruments, Perforated. G. H. Davis. No. 1,353,460; Sept. 21; v. 278; p. 436.
Music-sheets, Centralizing mechanism for. R. W. Scott. No. 1,357,352; Nov. 2; v. 280; p. 29.
Music-stands, Attachment for folding. W. R. Kirkendall and G. C. Wood. No. 1,359,811; Nov. 23; v. 280; p. 661.
Music teachers, Instruments for use of. B. de Bernyz. No. 1,331,053; Feb. 17; v. 271; p. 421.
Music-turning device. H. B. Russell. No. 1,347,556; July 27; v. 276; p. 617.
Musical chart, Transposing. R. B. Robinson. No. 1,354,214; Sept. 28; v. 278; p. 632.
Musical instrument. H. R. Heller. No. 1,352,958; Sept. 14; v. 278; p. 278.
Musical instrument. O. E. Kellum. No. 1,358,752; Nov. 16; v. 280; p. 409.
Musical instrument. R. B. Kent. No. 1,330,078; Feb. 10; v. 271; p. 169.
Musical instrument. B. A. Morris. No. 1,335,010; Mar. 30; v. 272; p. 754.
Musical instrument. E. F. E. Mueller. No. 1,326,955; Jan. 6; v. 270; p. 14.
Musical instrument. C. B. Roland. No. 1,358,177; Nov. 9; v. 280; p. 249.
Musical instrument. J. Weber. No. 1,347,977; July 27; v. 276; p. 701.
Musical instrument. F. Zamecnik. No. 1,340,098; May 11; v. 274; p. 347.
Musical instrument, Automatic. J. H. Dickinson. No. 1,359,040; Nov. 16; v. 280; p. 465.
Musical instrument, Automatic. L. H. Maier. No. 1,356,107; Oct. 19; v. 279; p. 419.
Musical instrument, Automatic. C. F. Stoddard. No. 1,360,049; Nov. 23; v. 280; p. 708.
Musical instrument, Electrically-driven pneumatic. H. J. La Joie. No. 1,329,613; Feb. 3; v. 271; p. 50.
Musical instrument, Self-playing. M. Weisberg. No. 1,330,928; Feb. 17; v. 271; p. 397.
Musical-instrument-string retoner. L. L. Almutt. No. 1,353,135; Sept. 21; v. 278; p. 373.
Musical-instrument strings, String fastener and adjuster for. H. Cohn. No. 1,331,863; Feb. 24; v. 271; p. 593.
Musical instrument, Stringed. C. Darmis. No. 1,360,729; Nov. 30; v. 280; p. 910.
Musical instrument, Stringed. E. Re. No. 1,340,628; May 18; v. 274; p. 505.
Musical instrument, Stringed. E. Re. No. 1,345,239; June 29; v. 275; p. 955.
Musical instrument, Stringed. A. J. Reams, Jr., and L. A. Williams. No. 1,361,182; Dec. 7; v. 281; p. 40.
Musical instruments, Appliance for horn. G. B. Humes. No. 1,350,409; Aug. 24; v. 277; p. 615.
Musical instruments, Detachable bottom-action unit for automatic. G. P. Brand. No. 1,351,280; Aug. 31; v. 277; p. 847.
Musical instruments, Double-tracker. F. M. Madsen. No. 1,327,342; Jan. 6; v. 270; p. 85.
Musical instruments, Expression device for automatic. H. J. La Joie. No. 1,354,045; Sept. 28; v. 278; p. 597.
Musical instruments, Fastener for tailpieces of. B. Poehland. No. 1,337,793; Apr. 20; v. 273; p. 530.
Musical instruments, Key-mount for wind. E. J. Gulick. No. 1,345,486; July 6; v. 276; p. 31.
Musical instruments, Mouthpiece for. F. Sordillo. No. 1,327,970; Jan. 13; v. 270; p. 265.
Musical instruments, Mouthpiece for wind. C. O. Widmayer. No. 1,353,297; Sept. 21; v. 278; p. 404.
Musical instruments, Mute-carrier for stringed. A. D. Grover. No. 1,332,551; Mar. 2; v. 272; p. 72.
Musical instruments, Note-sheets for automatic. J. A. Fisher. No. 1,359,682; Nov. 23; v. 280; p. 635.
Musical instruments, Nut for. F. L. Turner. No. 1,335,142; Mar. 30; v. 272; p. 780.
Musical instruments, Playing device for stringed. C. Haberman. No. 1,346,707; July 13; v. 276; p. 334.
Musical instruments, Pneumatic action for. W. C. Collignon. No. 1,340,017; May 11; v. 274; p. 332.
Musical instruments, Pneumatic action for. C. V. Jameson. No. 1,353,753; Sept. 21; v. 278; p. 495.
Musical instruments, Primary valve for pneumatic. B. R. Van Valkenburg. No. 1,350,395; Aug. 24; v. 277; p. 612.
Musical instruments, Sounding-board for. J. Virzi. No. 1,351,709; Aug. 31; v. 277; p. 931.
Musical instruments, String for. C. Graiver. No. 1,339,953; May 11; v. 274; p. 320.
Musical instruments, Tuning device for wind. A. J. Sinclair. No. 1,361,629; Dec. 7; v. 281; p. 131.
Musical instruments, Tuning-peg for. H. P. Strough. No. 1,345,972; July 6; v. 276; p. 128.
Musical notation. F. H. B. Byrne. No. 1,355,087; Oct. 5; v. 279; p. 127.
Musical-notation indicator. J. Cohn. No. 1,328,718; Jan. 20; v. 270; p. 442.
Musical notation. F. Taft. No. 1,356,416; Oct. 19; v. 279; p. 480.
Musical stringed instrument. J. L. Lewis. No. 1,346,458; July 13; v. 276; p. 285.
Musical wind instrument. F. Holton. No. 1,330,806; Feb. 17; v. 271; p. 372.
Musical wind instrument. F. and R. C. Jagger. No. 1,349,722; Aug. 17; v. 277; p. 436.
Mute. F. Sordillo. No. 1,338,108; Apr. 27; v. 273; p. 660.
Mute, Stringed-instrument. C. Badalamenti. No. 1,333,827; Mar. 16; v. 272; p. 425.
Muzzle. A. Waltner. No. 1,362,276; Dec. 14; v. 281; p. 306.
Muzzle, Dog-. H. L. Stoker. No. 1,351,140; Aug. 31; v. 277; p. 819.
Mydriatic and making same. W. N. Nagai. No. 1,356,877; Oct. 26; v. 279; p. 617.
Nail. P. F. Butterfield. No. 1,326,910; Jan. 6; v. 270; p. 5
Nail. E. Wood and L. Ingraham. No. 1,360,344; Nov. 30; v. 280; p. 834.
Nail buncher and assorter. J. Catinzearo. No. 1,331,901; Feb. 24; v. 271; p. 600.
Nail, Clench or expansion. E. C. Royer and B. J. Boyle. No. 1,336,162; Apr. 6; v. 273; p. 87.
Nail-distributing machine. J. M. Benjamin. No. 1,342,415; June 8; v. 275; p. 210.
Nail-driving implement. A. J. De Lander. No. 1,340,705; May 18; v. 274; p. 519.
Nail-mount. W. E. Elliott. No. 1,337,212; Apr. 20; v. 273; p. 420.
Nail-packing machinery. T. Alexander. No. 1,340,200; May 18; v. 274; p. 424.
Nail trimmer, Finger-. O. H. Oesterwitz. No. 1,363,164; Dec. 21; v. 281; p. 529.
Nails, Making weatherproof. G. E. Dickson. No. 1,342,742; June 8; v. 275; p. 273.
Nailing-machine. E. Stutzer. No. 1,356,894; Oct. 26; v. 279; p. 620.
Nailing machine, Box-. J. Doig. No. 1,335,563; Mar. 30; v. 272; p. 857.
Nailing-strip. H. E. Barber. No. 1,358,922; Nov. 16; v. 280; p. 443.
Nailing mechanism. J. H. Gibson. No. 1,348,711; Aug. 3; v. 277; p. 112.
Name-plate. C. H. Lane and J. H. Steele. No. 1,340,778; May 18; v. 274; p. 533.
Name-plate. A. Tobias. No. 1,355,714; Oct. 12; v. 279; p. 301.
Name-plate and annunciator. W. H. Bailey. No. 1,351,362; Aug. 31; v. 277; p. 864.
Napkin-clasp. J. W. Barlow. No. 1,331,178; Feb. 17; v. 271; p. 443.
Napkin-fastener. R. Thamm. No. 1,329,149; Jan. 27; v. 270; p. 553.
Napkin-holder. A. Henderson. No. 1,336,744. Apr. 13; v. 273; p. 257.
Napkin-ring. J. Erdoes and E. Sas. No. 1,339,180; May 4; v. 274; p. 98.
Napkin, Washable sanitary. J. Weissman. No. 1,353,196; Sept. 21; v. 278; p. 385.
Navigation. Apparatus for sea. S. Koiransky. No. 1,344,903; June 29; v. 275; p. 891.
Navigational apparatus. E. A. Sperry. No. 1,360,694; Nov. 30; v. 280; p. 903.
Navigator's instrument. R. W. Tucker. No. 1,345,289; June 29; v. 275; p. 965.
Necklace-clasp. J. H. Lutz. No. 1,347,515; July 27; v. 276; p. 609.
Necktie. A. M. Bakerman. No. 1,349,436; Aug. 10; v. 277; p. 316.
Necktie. J. Costello. No. 1,349,187; Aug. 10; v. 277; p. 257.
Necktie. B. Forman. No. 1,363,243; Dec. 28; v. 281; p. 586.
Necktie. H. L. Greenberg. No. 1,359,361; Nov. 16; v. 280; p. 527.
Necktie. J. Kaiser. No. 1,347,782; July 27; v. 276; p. 663.
Necktie and pin holder. T. F. Connors. No. 1,342,796; June 8; v. 275; p. 285.
Necktie attachment. U. O. Holcomb. No. 1,330,708; Feb. 10; v. 271; p. 286.
Necktie-clasp. C. A. Kreplin. No. 1,350,612; Aug. 24; v. 277; p. 655.
Necktie-clasp. W. M. Narbett. No. 1,345,216; June 29; v. 275; p. 951.
Necktie-clasp. A. L. Presley. No. 1,358,244; Nov. 9; v. 280; p. 262.

Digitized by Google

Alphabetical list of inventions—Continued.

Necktie-clasp. F. Zurcher. No. 1,360,488; Nov. 30; v. 280; p. 863.
Necktie-fastener. R. Cooperman. No. 1,336,618; Apr. 13; v. 273; p. 233.
Necktie-fastener. H. P. Reston. No. 1,358,465; Nov. 9; v. 280; p. 307.
Necktie form and holder. W. A. Smith. No. 1,344,248; June 22; v. 275; p. 697.
Necktie-former. J. D. Bell. No. 1,358,505; Nov. 9; v. 280; p. 315.
Necktie-holder. E. J. Hamilton. No. 1,332,829; Mar. 2; v. 272; p. 125.
Necktie-holder. S. P. Hansen. No. 1,363,783; Dec. 28; v. 281; p. 690.
Necktie, Pneumatic. J. K. Allison. No. 1,347,359; July 20; v. 276; p. 522.
Necktie-pressing device. B. L. McKnight. No. 1,352,294; Sept. 7; v. 278; p. 111.
Necktie-retainer. G. A. F. Blomgren. No. 1,354,877; Oct. 5; v. 279; p. 86.
Necktie-retainer. L. F. Weir. No. 1,361,296; Dec. 7; v. 281; p. 63.
Necktie-smoothing device. S. W. McCarte. No. 1,335,882; Mar. 30; v. 272; p. 824.
Necktie-spreader. A. G. Millerlei. No. 1,334,625; Mar. 23; v. 272; p. 621.
Necktie-stiffener. L. Starr. No. 1,358,400; Nov. 9; v. 280; p. 294.
Necktie-stretcher. F. F. Metcalf. No. 1,346,552; July 13; v. 276; p. 304.
Necktie-stretcher. F. R. Rush. No. 1,330,010; Feb. 3; v. 271; p. 124.
Necktie-stretcher. G. W. Sparks. No. 1,332,147; Feb. 24; v. 271; p. 645.
Necktie-support. H. Kohirogawa. No. 1,347,957; July 27; v. 276; p. 697.
Needle. J. T. Careaga. No. 1,341,357; May 25; v. 274; p. 715.
Needle. C. A. Port. No. 1,338,525; Apr. 27; v. 273; p. 738.
Needle, Crochet-. C. E. Ensfield. No. 1,358,067; Nov. 9; v. 280; p. 228.
Needle, Crochet-. I. Green. No. 1,347,027; July 20; v. 276; p. 456.
Needle-cutter. C. E. Johnson. No. 1,357,637; Nov. 2; v. 280; p. 82.
Needle cutter, Fiber-. J. Brandstetter. No. 1,362,583; Dec. 14; v. 281; p. 364.
Needle, Embroidery-. D. H. Butler. No. 1,357,687; Nov. 2; v. 280; p. 92.
Needle for hand-embroidery and similar work. G. V. Pade and C. T. Weitzel. (Reissue.) No. 14,997; Nov. 30; v. 280; p. 962.
Needle-holder. J. Stanko. No. 1,349,232; Aug. 10; v. 277; p. 266.
Needle holder, Knitting-. W. C. Rhodes. No. 1,344,821; June 29; v. 275; p. 876.
Needle holder, Surgical-. J. S. Turner. No. 1,327,577; Jan. 6; v. 270; p. 130.
Needle, Knitting-. H. L. Kelsey. No. 1,327,918; Jan. 13; v. 270; p. 255.
Needle, Knitting-. L. D. Schoolfield. No. 1,340,255; May 18; v. 274; p. 434.
Needle, Knitting-machine. P. P. La Montague. No. 1,339,959; May 11; v. 274; p. 321.
Needle or stylus sharpener, Phonograph. O. Thompson. No. 1,334,818; Mar. 23; v. 272; p. 658.
Needle-pointer. G. Olson. No. 1,361,091; Dec. 7; v. 281; p. 22.
Needle repointer, Record-. F. Myers. No. 1,331,850; Feb. 24; v. 271; p. 590.
Needle, Ribbon or tape. W. C. Ellsworth. No. 1,351,418; Aug. 31; v. 277; p. 875.
Needle, Ripping-. M. V. Bell. No. 1,351,010; Aug. 24; v. 277; p. 730.
Needle, Sewing-. A. Villani. No. 1,345,422; July 6; v. 276; p. 19.
Needle, Sewing-machine. W. J. Kendig. No. 1,333,259; Mar. 9; v. 272; p. 257.
Needle-straightening machine. A. Altman. No. 1,361,513; Dec. 7; v. 281; p. 108.
Needle-straightening machine. A. Altman. No. 1,361,514; Dec. 7; v. 281; p. 108.
Needle-straightening machine. A. Altman. No. 1,361,515; Dec. 7; v. 281; p. 109.
Needle-straightening machine. M. W. Maine. No. 1,361,528; Dec. 7; v. 281; p. 111.
Needle, Talking-machine. F. W. Williams. No. 1,344,839; June 29; v. 275; p. 880.
Needle-threader. C. F. A. Boldt. 1,356,336; Oct. 19; v. 279; p. 464.
Needle-threader. W. C. Hill. No. 1,360,400; Nov. 30; v. 280; p. 845.
Negatives, Means for marking and identifying. C. W. Schmidt. No. 1,362,581; Dec. 14; v. 281; p. 364.
Nest. G. H. Williams. No. 1,343,071; June 8; v. 275; p. 339.
Nest, Automatic trap-. A. H. Petit. No. 1,345,229; June 29; v. 275; p. 953.
Nest, Hen's. B. G. Faust. No. 1,329,963; Feb. 3; v. 271; p. 116.
Nest, Hen's. E. L. Fink. No. 1,347,266; July 20; v. 276; p. 508.
Nest, Hen's. A. S. Johnson. No. 1,347,223; July 20; v. 276; p. 494.
Nest, Hen's. L. C. Lux. No. 1,345,205; June 29; v. 275; p. 949.
Nest, Hen's. W. M. Scott. No. 1,329,024; Jan. 27; v. 270; p. 530.
Nest, Hen's. C. Willeford. No. 1,336,802; Apr. 13; v. 273; p. 268.
Nest, Knockdown hen's. E. Swanson. No. 1,351,308; Aug. 31; v. 277; p. 852.
Nest, Poultry-. D. W. Goldsmith. No. 1,359,052; Nov. 16; v. 280; p. 467.
Nest, Sanitary hen's. S. S. Good. No. 1,338,725; May 4; v. 274; p. 14.
Nest structure, Portable. E. M. Pratt and A. H. Rockefeller. No. 1,350,264; Aug. 17; v. 277; p. 540.
Nest, Trap-. C. W. Bour. No. 1,336,191; Apr. 6; v. 273; p. 92.
Nest, Trap-. C. E. Glander. No. 1,351,103; Aug. 31; v. 277; p. 811.
Nest, Trap-. T. F. Thompson. No. 1,354,523; Oct. 5; v. 279; p. 15.
Nests, Material for poultry. E. A. Johnson. No. 1,359,602; Nov. 23; v. 280; p. 620.
Net and laying same, Submarine. E. A. Sperry. No. 1,333,224; Mar. 9; v. 272; p. 251.
Net, Collapsible life-. F. Gilarski. No. 1,360,924; Nov. 30; v. 280; p. 947.
Net, Collapsible minnow-. F. Eberhardt. No. 1,348,398; Aug. 3; v. 277; p. 53.
Net-frame, Folding. E. E. Brown. No. 1,340,874; May 25; v. 274; p. 6[illegible].
Nethergarment. A. Walker. No. 1,334,823; Mar. 23; v. 272; p. 659.
Network-selecting device. O. B. Jacobs. No. 1,355,147; Oct. 12; v. 279; p. 190.
Newspaper. E. H. Cottress. No. 1,341,633; June 1; v. 275; p. 4.
Newspaper. E. H. Cottrell. No. 1,341,634; June 1; v. 275; p. 4.
Newspaper-feeding device. S. Halvorsen. No. 1,361,986; Dec. 14; v. 281; p. 248.
Newspaper-holder. J. Bartuzel. No. 1,352,398; Sept. 7; v. 278; p. 131.
Nickel and copper from copper-nickel mattes or materials, Separating. R. C. Stanley. No. 1,351,877; Sept. 7; v. 278; p. 33.
Nickel-plating. E. N. Todd and W. R. King. No. 1,352,328; Sept. 7; v. 278; p. 118.
Nickel-steel, Manufacture of. P. F. Cowing. No. 1,356,342; Oct. 19; v. 279; p. 466.
Nipple and accessory lock, Filling. R. Stirling, Jr. No. 1,361,922; Dec. 14; v. 281; p. 235.
Nipple, Child's feeder-. J. T. Cowie. No. 1,360,893; Nov. 30; v. 280; p. 942.
Nipple protector, Baby-. L. E. Marsh. No. 1,336,366; Apr. 6; v. 273; p. 125.
Nipple, Swiveled Hose-. W. J. Wise. No. 1,354,710; Oct. 5; v. 279; p. 53.
Nipples, Making spoke-. J. H. Graham. No. 1,340,166; May 18; v. 274; p. 418.
Nitrates and chlorids, Leaching and obtaining. W. E. Giesecke. No. 1,357,973; Nov. 9; v. 280; p. 208.
Nitrids, Making solid bodies from. E. Podszus. No. 1,337,264; Apr. 20; v. 273; p. 430.
Nitrifier, fertilizer, and insecticide, Product serving as a. G. Trauffaut. No. 1,347,798; July 27; v. 276; p. 666.
Nitro-cellulose film of low inflammability. J. G. Jarvis. No. 1,354,401; Sept. 28; v. 278; p. 670.
Nitro compounds, Nitroso and Azo compounds, Reduction of substituted. T. S. Moore. No. 1,358,324; Nov. 9; v. 280; p. 278.
Nitrocarbohydrates, Chemical process for making. G. R. Anchors. No. 1,329,353; Feb. 3; v. 271; p. 3.
Nitrocellulose and product thereof, Stabilizing. C. L. Reese. No. 1,358,653; Nov. 9; v. 280; p. 344.
Nitrocellulose composition. J. M. Kessler. No. 1,357,876; Nov. 2; v. 280; p. 129.
Nitrogen and hydrogen, Making a mixture of. C. Ellis. No. 1,327,029; Jan. 6; v. 270; p. 28.
Nitrogen compounds, Forming. C. B. Jacobs. No. 1,354,561; Oct. 5; v. 279; p. 23.
Nitrogen compounds from carbids, Manufacturing. O. F. S. Carlson. No. 1,337,750; Apr. 20; v. 273; p. 528.
Nitrogen, Fixing. C. T. Thorssell and H. L. R. Lundén. No. 1,342,834; June 8; v. 275; p. 393.
Nitrogen, Fixing atmospheric. C. P. Hidden. No. 1,352,193; Sept. 7; v. 278; p. 92.
Nitrogen from air and the products resulting therefrom, Process and apparatus for the electrical fixation of. J. E. Bloom. No. 1,334,590; Mar. 23; v. 272; p. 614.
Nitrogen products, Apparatus for the production of. C. T. Thorssell. No. 1,357,196; Oct. 26; v. 279; p. 678.
Nitrogenous compounds, Process of and means for forming. J. C. Clancy. No. 1,352,176; Sept. 7; v. 278; p. 89.
Nitrogenous phosphatic material and producing same. F. S. Washburn. No. 1,355,369; Oct. 12; v. 279; p. 235.
Nitrostarch, Stabilizing. B. J. Flurscheim. No. 1,343,317; June 15; v. 275; p. 450.
Non-crucible furnace. J. E. Hausfeld. No. 1,336,187; Apr. 6; v. 273; p. 82.

Digitized by Google

Non-kick device. E. Frohwerk. No. 1,348,989; Aug. 10; v. 277; p. 218.
Non-metallic resistance element and making same. A. L. Feild. No. 1,349,053; Aug. 10; v. 277; p. 231.
Non-siphoning trap. J. Ross. No. 1,327,116; Jan. 6; v. 270; p. 45.
Non-skid and tractor device. G. Crisamore. No. 1,344,678; June 29; v. 275; p. 849.
Non-skid appliance. G. S. Cucchiara. No. 1,361,022; Dec. 7; v. 281; p. 8.
Non-skid device. H. C. Etter. No. 1,327,538; Jan. 6; v. 270; p. 123.
Non-skid device. H. Gjerdrum. No. 1,357,198; Oct. 26; v. 279; p. 679.
Non-skid device. E. A. Hensal. No. 1,346,785; July 13; v. 276; p. 350.
Non-skid device. L. L. Kellogg. No. 1,338,934; May 4; v. 274; p. 52.
Non-skid device. W. C. McGeorge. No. 1,342,753; June 8; v. 275; p. 276.
Non-skid for wheels. F. Huda. No. 1,340,048; May 11; v. 274; p. 337.
Non-skid protector. T. H. Gyton. No. 1,347,368; July 20; v. 276; p. 523.
Non-skid wheel. A. Nelson and O. H. Hinnard. No. 1,336,149; Apr. 6; v. 273; p. 84.
Non-slip attachment. S. C. Sherry. No. 1,359,439; Nov. 16; v. 280; p. 542.
Noodle-cutter. J. L. Minarcik. No. 1,358,973; Nov. 16; v. 280; p. 453.
Noodle-cutting machine. P. Cardone, G. Fumagalli, and C. Surico. No. 1,357,611; Nov. 2; v. 280; p. 77.
Noodle-laying machine. K. Gammel. No. 1,331,752; Feb. 24; v. 271; p. 571.
Noodle-machine. F. Michalek. No. 1,352,826; Sept. 14; v. 278; p. 253.
Noodles, Forming. K. Gammel. No. 1,331,753; Feb. 24; v. 271; p. 571.
Note-book and manuscript holder. J. Sheean. No. 1,334,264; Mar. 16; v. 272; p. 506.
Nozzle. D. P. Cleveland. No. 1,362,228; Dec. 14; v. 281; p. 296.
Nozzle. F. Craigie and J. Hines. No. 1,351,840; Sept. 7; v. 278; p. 25.
Nozzle and material-separator for reducing-machines, Suction-. M. F. Williams. No. 1,327,452; Jan. 6; v. 270; p. 100.
Nozzle and sprayer, Liquid. H. Murphy. No. 1,342,027; June 1; v. 275; p. 81.
Nozzle, Atomizing-. M. R. Wolford. No. 1,342,486; June 8; v. 275; p. 223.
Nozzle-can. L. Klingman. No. 1,343,921; June 22; v. 275; p. 635.
Nozzle, Cotton-picking. C. E. Taylor. No. 1,335,085; Mar. 30; v. 272; p. 759.
Nozzle, Douche-. E. V. Szyperski. No. 1,338,710; May 4; v. 274; p. 12.
Nozzle, Flushing-. J. McNeil. No. 1,342,124; June 1; v. 275; p. 100.
Nozzle for orchard-heaters. A. N. Cooper. No. 1,363,720; Dec. 28; v. 281; p. 677.
Nozzle-holder. M. Havey. No. 1,339,885; May 11; v. 274; p. 307.
Nozzle, Locomotive exhaust-. J. A. Ormiston. No. 1,329,093; Jan. 27; v. 270; p. 543.
Nozzle, Product-picking. H. H. Holdaway and T. R. Gabel. No. 1,344,205; June 22; v. 275; p. 689.
Nozzle, Scrubbing-. W. L. Lampkin. No. 1,334,911; Mar. 23; v. 272; p. 676.
Nozzle, Spray-. W. M. Herman. No. 1,346,750; July 13; v. 276; p. 345.
Nozzle, Spray-. E. Roberts. No. 1,353,495; Sept. 21; v. 278; p. 443.
Nozzle, Spraying-. N. W. Halsey. No. 1,362,099; Dec. 14; v. 281; p. 271.
Nozzle, Suction cleaning-. C. L. Goughnour. No. 1,355,553; Oct. 12; v. 279; p. 270.
Nozzle, Suction cleaning-. W. W. Rosenfield. No. 1,348,584; Aug. 3; v. 277; p. 88.
Nozzle, Suction cleaning-. W. W. Rosenfield. No. 1,348,587; Aug. 3; v. 277; p. 89.
Nozzles, Cleaner for blow-torch. O. Bernz. No. 1,343,705; June 15; v. 275; p. 527.
Nozzles, Making flow-. H. C. Lord. No. 1,352,292; Sept. 7; v. 278; p. 111.
Numbering-head. M. H. Kern. No. 1,337,232; Apr. 20; v. 273; p. 424.
Nurling-machine. C. K. MacDonald. No. 1,358,169; Nov. 9; v. 280; p. 247.
Nursery-seat. A. A. Howe. No. 1,339,891; May 11; v. 274; p. 308.
Nursery-seat. A. K. Rownd. No. 1,328,900; Jan. 27; v. 270; p. 507.
Nut. T. Kinney. No. 1,339,015; May 4; v. 274; p. 87.
Nut and bolt. M. F. Torazzi and R. G. Knoph. No. 1,334,977; Mar. 30; v. 272; p. 748.
Nut and bolt lock. O. B. Kirkbride. No. 1,335,901; Apr. 6; v. 273; p. 37.
Nut and bolt lock or fastener. J. H. Wilson. No. 1,332,015; Feb. 24; v. 271; p. 621.
Nut and bolt tightening device. J. M. Murray. No. 1,332,351; Mar. 2; v. 272; p. 33.
Nut and pipe wrench. A. G. Hunter. No. 1,359,894; Nov. 23; v. 280; p. 678.
Nut and washer, Combined. W. H. Cook. No. 1,350,545; Aug. 24; v. 277; p. 642.
Nut-blancher. J. G. Kennedy. No. 1,350,506; Aug. 24; v. 277; p. 634.
Nut-blancher. J. G. Kennedy. No. 1,362,252; Dec. 14; v. 281; p. 301.
Nut-blanching machine. J. E. Demerath. No. 1,350,549; Aug. 24; v. 277; p. 642.
Nut-blanks, Machine for forming. D. Julian. No. 1,330,122; Feb. 10; v. 271; p. 177.
Nut-blanks, Machine for making. J. J. and S. W. Reilly. No. 1,356,311; Oct. 19; v. 279; p. 460.
Nut-blanks, Making. E. Hollings. No. 1,342,676; June 8; v. 275; p. 260.
Nut-blanks, Making. E. Hollings. (Reissue.) No. 14,958; Oct. 12; v. 279; p. 318.
Nut-bleaching apparatus. H. B. Barkis, Sr. No. 1,353,209; Sept. 21; v. 278; p. 387.
Nut-branding machine. J. Venge. No. 1,331,790; Feb. 24; v. 271; p. 578.
Nut-cracking machine. F. A. G. Pape. No. 1,342,690; June 8; v. 275; p. 263.
Nut-cracking machine. F. A. G. Pape. No. 1,342,692; June 8; v. 275; p. 263.
Nut-lock. L. Alexander. No. 1,363,210; Dec. 28; v. 281; p. 579.
Nut-lock. A. Anderson. No. 1,344,845; June 29; v. 275; p. 881.
Nut-lock. R. Anderson. No. 1,333,529; Mar. 9; v. 272; p. 308.
Nut-lock. W. P. Andrew. No. 1,328,939; Jan. 27; v. 270; p. 514.
Nut-lock. E. C. Austin. No. 1,358,496; Nov. 9; v. 280; p. 313.
Nut-lock. J. Best. No. 1,363,710; Dec. 28; v. 281; p. 675.
Nut-lock. A. C. Blake. No. 1,339,015; May 4; v. 274; p. 67.
Nut-lock. A. Blake. No. 1,349,404; Aug. 10; v. 277; p. 300.
Nut-lock. J. A. Bradley. No. 1,349,260; Aug. 10; v. 277; p. 272.
Nut-lock. L. W. Carden. No. 1,327,373; Jan. 6; v. 270; p. 92.
Nut-lock. E. L. Carson. No. 1,334,887; Mar. 23; v. 272; p. 671.
Nut-lock. A. E. Cassells. No. 1,360,365; Nov. 30; v. 280; p. 837.
Nut-lock. C. D. Chelcut. No. 1,334,227; Mar. 16; v. 272; p. 499.
Nut-lock. J. F. Comly. No. 1,344,584; June 22; v. 275; p. 755.
Nut-lock. T. G. Conway, Jr. No. 1,362,675; Dec. 21; v. 281; p. 485.
Nut-lock. J. J. Crissinger. No. 1,353,382; Sept. 21; v. 278; p. 421.
Nut-lock. J. W. Curtin. No. 1,352,053; Sept. 7; v. 278; p. 65.
Nut-lock. J. Q. Daugherty. No. 1,346,301; July 13; v. 276; p. 254.
Nut-lock. F. P. Deever. No. 1,336,733; Apr. 13; v. 273; p. 255.
Nut-lock. E. A. Doty. No. 1,361,838; Dec. 14; v. 281; p. 218.
Nut-lock. D. T. Duckworth. No. 1,334,893; Mar. 23; v. 272; p. 672.
Nut-lock. W. Dunn. No. 1,334,859; Mar. 23; v. 272; p. 571.
Nut-lock. A. Du Puy. No. 1,348,787; Aug. 3; v. 277; p. 126.
Nut-lock. S. S. Eisenhart. No. 1,344,684; June 29; v. 275; p. 849.
Nut-lock. E. E. Ellmann, F. A. Kell, and L. L. Zacharias. No. 1,351,235; Aug. 31; v. 277; p. 838.
Nut-lock. J. A. Ettler. No. 1,350,404; Aug. 24; v. 277; p. 614.
Nut-lock. W. F. Evans. No. 1,341,741; June 1, v. 275; p. 25.
Nut-lock. W. F. Evans. No. 1,357,389; Nov. 2; v. 280; p. 36.
Nut-lock. A. F. Glenn. No. 1,362,288; Dec. 14; v. 281; p. 308.
Nut-lock. C. A. Gustaveson. No. 1,341,269; May 25; v. 274; p. 698.
Nut-lock. F. L. Hemmer. No. 1,337,700; Apr. 20; v. 273; p. 513.
Nut-lock. G. Johnson and E. Nelson. No. 1,349,768; Aug. 17; v. 277; p. 445.
Nut-lock. E. Kaddatz. No. 1,329,609; Feb. 3; v. 271; p. 50.
Nut-lock. W. R. and R. O. Kilpatrick. No. 1,333,495; Mar. 9; v. 272; p. 302.
Nut-lock. B. F. Kurtz. No. 1,327,435; Jan. 6; v. 270; p. 103.
Nut-lock. E. Luck. No. 1,350,165; Aug. 17; v. 277; p. 521.
Nut-lock. S. H. McCain, Jr. No. 1,350,230; Aug. 17; v. 277; p. 533.
Nut-lock. C. A. Magnuson. No. 1,353,602; Sept. 21; v. 278; p. 465.
Nut-lock. H. L. Marburger. No. 1,328,443; Jan. 20; v. 270; p. 391.
Nut-lock. G. L. Melton. No. 1,358,690; Nov. 9, v. 280; p. 352.

Digitized by Google

Alphabetical list of inventions—Continued.

Nut-lock. G. L. Moore. No. 1,353,777; Sept. 21; v. 278; p. 500.
Nut-lock. W. S. Myers. No. 1,351,676; Aug. 31; v. 277; p. 925.
Nut-lock. A. Nainka. No. 1,332,268; Mar. 2; v. 272; p. 18.
Nut-lock. H. L. Pangborn. No. 1,360,143; Nov. 23; v. 280; p. 727.
Nut-lock. B. G. Patterson. No. 1,340,496; May 18; v. 274; p. 480.
Nut-lock. A. Petriw and A. Petlak. No. 1,346,975; July 20; v. 276; p. 446.
Nut-lock. W. S. Pierce, Jr. No. 1,343,334; June 15; v. 275; p. 453.
Nut-lock. T. Raspet. No. 1,362,509; Dec. 14; v. 281; p. 350.
Nut-lock. F. Reddy. No. 1,328,899; Jan. 20; v. 270; p. 383.
Nut-lock. M. B. Reed. No. 1,342,508; June 8; v. 275; p. 228.
Nut-lock. C. A. Rivers. No. 1,332,521; Mar. 2; v. 272; p. 67.
Nut-lock. W. G. Savidge. No. 1,328,401; Jan. 20; v. 270; p. 383.
Nut-lock. E. J. Schwab. No. 1,358,586; Nov. 9, v. 280; p. 331.
Nut-lock. E. F. Schworn. No. 1,334,804; Mar. 23; v. 272; p. 655.
Nut-lock. C. W. Shelton. No. 1,349,696; Aug. 17; v. 277; p. 431.
Nut-lock. R. T. Skipworth. No. 1,337,164; Apr. 13; v. 273; p. 337.
Nut-lock. G. H. Socie. No. 1,362,270; Dec. 14; v. 281; p. 305.
Nut-lock. J. A. Stubblefield. No. 1,351,974; Sept. 7; v. 278; p. 52.
Nut-lock. C. G. Surber. No. 1,359,287; Nov. 16; v. 280; p. 511.
Nut-lock. E. E. Thomas. No. 1,347,722; July 27; v. 276; p. 650.
Nut-lock. A F. Thompson. No. 1,341,604; May 25; v. 274; p. 763.
Nut-lock. G. N. Tsumura. No. 1,333,742; Mar. 16; v. 272; p. 409.
Nut-lock. C. Van Genderen. No. 1,357,916; Nov. 2; v. 280; p. 137.
Nut-lock. C. H. and H. W. Viebrock. No. 1,346,730; July 13; v. 276; p. 338.
Nut-lock. C. H. Wagner. No. 1,359,299; Nov. 16; v. 280; p. 514.
Nut-lock. J. B. Word. No. 1,337,424; Apr. 20; v. 273; p. 460.
Nut-lock. J. A. Young. No. 1,352,643; Sept. 14; v. 278; p. 215.
Nut, Lock-. W. H. Gorr. No. 1,338,862; May 4; v. 274; p. 39.
Nut, Lock-. B. J. Greer. No. 1,331,011; Feb. 17; v. 271; p. 413.
Nut, Lock-. L. H. Jones. No. 1,341,175; May 25; v. 274; p. 680.
Nut, Lock-. F. Le Fauve. No. 1,357,331; Nov. 2; v. 280; p. 26.
Nut, Lock-. W. R. Lorens. No. 1,344,544; June 22; v. 275; p. 757.
Nut, Lock-. B. Miley. No. 1,339,120; May 4; v. 274; p. 88.
Nut, Lock-. E. Murray. No. 1,334,389; Mar. 23; v. 272; p. 576.
Nut, Lock-. J. R. Schrader. 1,347,124; July 20; v. 276; p. 475.
Nut, Lock-. H. A. Sévigné. No. 1,352,765; Sept. 14; v. 278; p. 240.
Nut, Lock-. M. Suhr. No. 1,329,814; Feb. 3; v. 271; p. 88.
Nut, Lock-. N. R. Thibert. No. 1,326,992; Jan. 6; v. 270; p. 22.
Nut, Lock-. N. R. Thibert. No. 1,352,103; Sept. 7; v. 278; p. 75.
Nut, Lock-. J. Varoga. No. 1,341,400; May 25; v. 274; p. 724.
Nut, Lock-. F. C. Warne. (Reissue.) No. 14,928; July 27; v. 276; p. 736.
Nut, Lock-. D. J. White. No. 1,355,373; Oct. 12; v. 279; p. 236.
Nut-lock and rail-joint protector. P. J. A. Peterson. No. 1,351,786; Sept. 7; v. 278; p. 14.
Nut-locks, Wrench element for. E. F. Schworm. No. 1,335,181; Mar. 30; v. 272; p. 778.
Nut-locking device. G. S. Evans. No. 1,340,602; May 18; v. 274; p. 500.
Nut-locking device. W. J. Hales. No. 1,336,077; Apr. 6; v. 273; p. 71.
Nut-locking device. W. H. Sawtell. No. 1,347,294; July 20; v. 276; p. 509.
Nut-machine. E. Hollings. No. 1,346,889; July 20; v. 276; p. 429.
Nut-marking machine. J. de Barros. No. 1,339,881; May 11; v. 274; p. 306.
Nut-marking machine. W. D. Simpson. No. 1,343,007; June 22; v. 275; p. 651.
Nut-meat-dispensing device. J. H. Clappison. No. 1,337,440; Apr. 20; v. 273; p. 463.
Nut, Quick-detachable. P. Jensen and H. Hansen. No. 1,360,297; Nov. 30; v. 280; p. 825.
Nut, Safety-. J. C. Haldeman. No. 1,336,955; Apr. 13; v. 273; p. 297.
Nut-shaving machine. H. Anderson. No. 1,339,086; May 4; v. 274; p. 82.
Nut-sheller. T. D. Futch. No. 1,330,442; Feb. 10; v. 271; p. 236.
Nut, Swivel-. H. P. Kraft. No. 1,330,594; Feb. 10; v. 271; p. 264.
Nut-tightening device. A. Lancaster. No. 1,363,183; Dec. 21; v. 281; p. 533.
Nut-tightening device, Automatic. B. Gibson. No. 1,327,152; Jan. 6; v. 270; p. 51.
Nut washer, Lock-. C. J. Maull. No. 1,360,662; Nov. 30; v. 280; p. 897.
Nuts, Apparatus for making. F. Mummelthey and C. H. Holmes. No. 1,338,244; Apr. 27; v. 273; p. 685.
Nuts, Apparatus for removing the outer shells or husks from palm-. F. A. G. Pape. No. 1,342,693; June 8; v. 275; p. 264.
Nuts, Method and machine for cracking. F. A. G. Pape. No. 1,342,689; June 8; v. 275; p. 263.
Nuts, Method and machine for cracking. F. A. G. Pape. No. 1,342,691; June 8; v. 275; p. 263.
Nutcracker. S. L. Allen. No. 1,351,983; Sept. 7; v. 278; p. 54.
Nutcracker. M. L. Minor. No. 1,331,351; Feb. 17; v. 271; p. 475.
Nutcracker. M. R. Randall. No. 1,357,472; Nov. 2; v. 280; p. 51.
Nutcracker. C. Smith. No. 1,344,731; June 29; v. 275; p. 858.
Oar, Boat-. D. D. Price. No. 1,346,554; July 13; v. 276; p. 304.
Oar, Bow-facing. W. H. Clay. No. 1,353,027; Sept. 14; v. 278; p. 292.
Oar, Bow-facing. F. Kohl. No. 1,345,860; July 6; v. 276; p. 104.
Oar-lock. A. J. Sargent. No. 1,335,606; Mar. 30; v. 272; p. 865.
Oar-lock shoulder. A. Franseen. No. 1,360,516; Nov. 30; v. 280; p. 868.
Oats separator, Wild-. A. K. Algeo. No. 1,331,608; Feb. 24; v. 271; p. 544.
Object-holder. G. W. Driggs and F. R. Henke. No. 1,346,944; July 20; v. 276; p. 440.
Observation apparatus. F. R. Swartwout. No. 1,333,192; Mar. 9; v. 272; p. 244.
Observation-station. W. G. Ruggles. No. 1,352,992; Sept. 14; v. 278; p. 285.
Odometer. C. F. Miller. No. 1,340,493; May 18; v. 274; p. 479.
Odometer, Chassis-. C. D. Richard. No. 1,357,422; Nov. 2; v. 280; p. 42.
Odometer, Hub-. C. D. Richard. No. 1,326,967; Jan. 6; v. 270; p. 17.
Odometer, Hub-. C. D. Richard. No. 1,353,003; Sept. 28; v. 278; p. 588.
Odometer-operating means. H. P. C. Browne. No. 1,361,008; Dec. 7; v. 281; p. 5.
Odontological casts, Apparatus for trimming. V. S. Wickham. No. 1,331,302; Feb. 17; v. 271; p. 465.
Odontometer. P. N. Williams. No. 1,340,354; May 18; v. 274; p. 453.
Offsetting-press. H. Miller. No. 1,340,138; May 11; v. 274; p. 355.
Oil-absorbing device. A. E. Allen. No. 1,351,601; Aug. 31; v. 277; p. 911.
Oil-agitator. C. P. Findley. No. 1,363,962; Dec. 28; v. 281; p. 724.
Oil-alarm device. F. C. Withrow. No. 1,349,991; Aug. 17; v. 277; p. 487.
Oil and making same, Substitute for linseed-. R. C. Bone. No. 1,347,074; July 20; v. 276; p. 466.
Oil and obtaining by-products therefrom, Method of and apparatus for treating. E. H. Frohner. No. 1,329,076; Jan. 27; v. 270; p. 539.
Oil and soap solution. J. A. De Cew. No. 1,337,546; Apr. 20; v. 273; p. 483.
Oil and soap solution and making same. J. A. De Cew. No. 1,330,173; Feb. 10; v. 271; p. 187.
Oil, Apparatus for burning. A. Fischer. No. 1,344,029; June 22; v. 275; p. 656.
Oil, Apparatus for burning. B. L. Worthen. (Reissue.) No. 14,800; Feb. 3; v. 271; p. 131.
Oil, Apparatus for distilling mineral. E. V. Stone. No. 1,351,266; Aug. 31; v. 277; p. 844.
Oil, Apparatus for reclaiming. J. R. Miller. No. 1,359,614; Nov. 23; v. 280; p. 622.
Oil, Apparatus for refining. F. E. Wellman. No. 1,335,772; Apr. 6; v. 273; p. 13.
Oil, Apparatus for the distillation of. S. D. Faust. No. 1,340,532; May 18; v. 274; p. 486.
Oil-atomizer. L. Stiles, Jr. No. 1,350,391; Aug. 24; v. 277; p. 611.
Oil-bearing shale, Apparatus for distilling. H. R. Straight. No. 1,330,014; Feb. 3; v. 271; p. 125.
Oil-boiler. E. Darby. No. 1,360,808; Nov. 30; v. 280; p. 942.
Oil-bolt. A. D. Ray. No. 1,336,654; Apr. 13; v. 273; p. 230.

Digitized by Google

Oil-box attachment. F. A. Mackin. No. 1,348,433; Aug. 3; v. 277; p. 60.
Oil-burner. W. Beckman. No. 1,350,917; Aug. 24; v. 277; p. 713.
Oil-burner. W. B. Booker. No. 1,352,347; Sept. 7; v. 278; p. 121.
Oil-burner. C. E. Brown. No. 1,344,978; June 29; v. 275; p. 905.
Oil-burner. C. E. Brown. No. 1,347,007; July 20; v. 276; p. 452.
Oil-burner. W. R. Bunch. No. 1,331,558; Feb. 24; v. 271; p. 534.
Oil-burner. J. E. Evans. No. 1,363,855; Dec. 28; v. 281; p. 704.
Oil-burner. S. A. Graffunder. No. 1,341,797; June 1; v. 275; p. 37.
Oil-burner. C. E. Green. No. 1,347,458; July 20; v. 276; p. 541.
Oil-burner. J. W. Hamilton. No. 1,351,208; Aug. 31; v. 277; p. 832.
Oil-burner. C. A. Hart. No. 1,346,373; July 13; v. 276; p. 268.
Oil-burner. R. Hoffman. No. 1,343,673; June 15; v. 275; p. 521.
Oil-burner. R. Hoffman. No. 1,343,672; June 15; v. 275; p. 520.
Oil-burner. W. M. Hoffman. No. 1,335,166; Mar. 30; v. 272; p. 784.
Oil-burner. T. B. Jarvies. No. 1,334,456; Mar. 23; v. 272; p. 589.
Oil-burner. V. and F. Kluga. No. 1,362,874; Dec. 21; v. 281; p. 473.
Oil-burner. L. M. Kohner. No. 1,352,373; Sept. 7; v. 278; p. 126.
Oil-burner. E. G. Lantz. No. 1,332,181; Feb. 24; v. 271; p. 651.
Oil-burner. W. C. Leist and C. Wagner. No. 1,354,314; Sept. 28; v. 278; p. 652.
Oil-burner. C. J. McNerny. No. 1,345,612; July 6; v. 276; p. 56.
Oil-burner. C. C. Manker. No. 1,344,421; June 22; v. 275; p. 732.
Oil-burner. J. L. Perkins. No. 1,350,466; Aug. 24; v. 275; p. 627.
Oil-burner. W. R. Quinn. No. 1,331,876; Feb. 17; v. 271; p. 480.
Oil-burner. W. R. Ray. No. 1,327,571; Jan. 6; v. 270; p. 129.
Oil-burner. E. Rodriguez. No. 1,359,747; Nov. 23; v. 280; p. 648.
Oil-burner. F. B. Schreiber. No. 1,330,767; Feb. 10; v. 271; p. 297.
Oil-burner. F. B. Shafer. No. 1,362,192; Dec. 14; v. 281; p. 289.
Oil-burner. A. T. Timosci. No. 1,349,479; Aug. 10; v. 277; p. 315.
Oil-burner. A. E. Van Assche. No. 1,334,473; Mar. 23; v. 272; p. 592.
Oil-burner and driving means therefor. W. A. Inglehart. No. 1,362,001; Dec. 14; v. 281; p. 252.
Oil-burner, Automatically-actuated. H. L. Sweeney. No. 1,333,785; Mar. 16; v. 272; p. 417.
Oil-burner control, Rotary-. A. Couture. No. 1,330,788; Feb. 17; v. 271; p. 369.
Oil burner, Crude-. J. Westall. No. 1,348,528; Aug. 3; v. 277; p. 77.
Oil burner, Fuel-. A. R. Anthony. No. 1,342,732; June 8; v. 275; p. 271.
Oil burner, Fuel-. W. M. Hoffman. No. 1,341,643; June 1; v. 275; p. 5.
Oil burner, Fuel-. W. M. Hoffman. No. 1,341,644; June 1; v. 275; p. 6.
Oil-burner system and torch therefor. P. Wade. No. 1,353,683; Sept. 21; v. 278; p. 482.
Oil-burner, Vapor. C. W. Turnbull and J. H. Fox. No. 1,340,038; May 11; v. 274; p. 336.
Oil-burner, Vapor. C. R. Umbenhower. No. 1,329,445; Feb. 3; v. 271; p. 19.
Oil-burner, Vapor. C. R. Umbenhower. No. 1,329,446; Feb. 3; v. 271; p. 19.
Oil burners, apparatus for operating and controlling fuel-. W. M. Hoffman. No. 1,341,642; June 1; v. 275; p. 5.
Oil-burning boiler. A. S. D. Herreshoff. No. 1,348,563; Aug. 3; v. 277; p. 84.
Oil-burning device. C. A. Valentine. No. 1,345,419; July 6; v. 276; p. 18.
Oil-burning engine. R. M. Hvid. No. 1,334,376; Mar. 23; v. 272; p. 574.
Oil-burning engine. R. M. Hvid. No. 1,346,205; July 13; v. 276; p. 234.
Oil-burning forge. C. B. Humason. No. 1,363,979; Dec. 28; v. 281; p. 727.
Oil-burning furnace. A. J. Borener. No. 1,328,075; Jan. 13; v. 270; p. 285.
Oil-burning heater. D. Seiniger. No. 1,349,475; Aug. 10; v. 277; p. 314.
Oil-cakes, Means for forming. R. A. Trace. No. 1,336,171; Apr. 6; v. 273; p. 88.
Oil-can. H. Barnett. No. 1,331,409; Feb. 17; v. 271; p. 486.
Oil-can. E. S. Church. No. 1,350,702; Aug. 24; v. 277; p. 672.
Oil-can. J. H. Hall. No. 1,340,954; May 25; v. 274; p. 637.
Oil-can. J. D. Karle. No. 1,339,765; May 11; v. 274; p. 284.
Oil-can. S. C. Price. No. 1,362,186; Dec. 14; v. 281; p. 288.
Oil-can heater. J. A. Fuller. No. 1,363,966; Dec. 28; v. 281; p. 725.
Oil-can holder. H. L. Decker and H. E. Adams. No. 1,353,898; Sept. 28; v. 278; p. 567.
Oil-can holder. C. W. McKinley. No. 1,349,842; Aug. 17; v. 277; p. 458.
Oil-can, Swing-spout. R. E. Hoyt. No. 1,330,538; Feb. 10; v. 271; p. 254.
Oil-cooled transformer. A. E. Berry. No. 1,331,089; Feb. 17; v. 271; p. 427.
Oil-cooler. R. C. Jones. No. 1,335,506; Mar. 30; v. 272; p. 847.
Oil-cooler. R. C. Jones. No. 1,355,980; Oct. 19; v. 279; p. 393.
Oil-cooling apparatus. O. C. Funderburk. No. 1,343,669; June 15; v. 275; p. 520.
Oil-cracking apparatus. W. B. Poole. No. 1,340,793; May 18; v. 274; p. 535.
Oil-cracking still. J. L. Gray. No. 1,331,909; Feb. 24; v. 271; p. 601.
Oil-cracking-still furnace. F. E. Wellman. No. 1,328,468; Jan. 20; v. 270; p. 396.
Oil-cup. E. J. Bloom. No. 1,331,894; Feb. 24; v. 271; p. 599.
Oil-cup. E. J. Bloom. No. 1,331,895; Feb. 24; v. 271; p. 599.
Oil-cup. W. G. Coles. No. 1,338,554; Apr. 27; v. 273; p. 743.
Oil-cup. J. P. Gits. No. 1,350,721; Aug. 25; v. 277; p. 676.
Oil-cup. C. H. Newton. No. 1,331,663; Feb. 24; v. 271; p. 555.
Oil-cup. T. G. Pihlfeldt and F. Hartung. No. 1,347,825; July 27; v. 276; p. 671.
Oil-cup. T. Pihlfeldt and F. C. Hartung. No. 1,347,826; July 27; v. 276; p. 671.
Oil-cup. T. G. Pihlfeldt and F. C. Hartung. No. 1,350,566; Aug. 24; v. 277; p. 646.
Oil-cup. A. R. Pribil. No. 1,363,812; Dec. 28; v. 281; p. 695.
Oil-cup. C. E. Quintin. No. 1,349,098; Aug. 10; v. 277; p. 239.
Oil-cup. L. H. Williams. No. 1,350,196; Aug. 17; v. 277; p. 527.
Oil-cup, Automatic. C. E. Cox. No. 1,357,616; Nov. 2; v. 280; p. 78.
Oil-cup, Force-feed. J. W. Doolittle. No. 1,359,583; Nov. 23; v. 280; p. 616.
Oil-cup holder. W. R. Dutemple. No. 1,328,271; Jan. 20; v. 270; p. 358.
Oil-cup, Vacuum. H. F. Bloom. No. 1,335,477; Mar. 30; v. 272; p. 841.
Oil-cup, Vacuum. H. F. Bloom. No. 1,351,610; Aug. 31; v. 277; p. 913.
Oil-dip gage. S. F. Benson. No. 1,360,492; Nov. 30; v. 280; p. 863.
Oil drilling and pumping rigs, Adjustable follower-block for. F. E. Braile. No. 1,341,968; June 1; v. 275; p. 70.
Oil emulsions, Apparatus for treatment of. C. W. McKibben. No. 1,327,835; Jan. 13; v. 270; p. 240.
Oil-engine. E. H. Crossen. No. 1,338,289; Apr. 27; v. 273; p. 694.
Oil-engine. L. K. Doelling. No. 1,328,499; Jan. 20; v. 270; p. 402.
Oil-engine. F. G. Hobart and C. B. Jahnke. No. 1,337,771; Apr. 20; v. 273; p. 527.
Oil-engine. A. Hyder. No. 1,354,455; Sept. 28; v. 278; p. 680.
Oil-engine-feeding device. F. G. Hobart. No. 1,337,770; Apr. 20; v. 273; p. 526.
Oil-expressing cage and press. N. B. Henry. No. 1,356,623; Oct. 26; v. 279; p. 567.
Oil-feeder. M. Kraut. No. 1,358,857; Nov. 16; v. 280; p. 430.
Oil-feeding apparatus. J. W. Finster. No. 1,335,676; Mar. 30; v. 272; p. 879.
Oil-filter. R. W. Roots. No. 1,350,521; Aug. 24; v. 277; p. 637.
Oil-flotation process and apparatus. D. F. Haley. No. 1,357,556; Nov. 2; v. 280; p. 66.
Oil from chips, Centrifugal machine for separating. J. W. Pittock. No. 1,340,682; May 18; v. 274; p. 515.
Oil from cylinders, piston-rods, &c., Scraping-ring for scraping. H. H. Blache. No. 1,327,801; Jan. 13; v. 270; p. 234.
Oil from the peel of citrus fruits, Extracting. F. A. McDermott. No. 1,353,169; Sept. 21; v. 278; p. 379.
Oil from vegetable fruits, Extraction of. N. A. Gavin. No. 1,328,278; Jan. 20; v. 270; p. 360.
Oil from vegetable seeds, and nuts, Extracting. C. Downs, R. A. Bellwood, and T. W. Turnill. No. 1,338,909; May 4; v. 274; p. 48.
Oil-gage, Automobile. G. H. Wallace. No. 1,354,788; Oct. 5; v. 279; p. 69.
Oil-gas burner. J. O. Taylor. No. 1,346,891; July 13; v. 276; p. 271.
Oil-heater. R. Dougherty and J. F. Kirby. No. 1,336,206; Apr. 6; v. 273; p. 95.

Digitized by Google

Alphabetical list of inventions—Continued.

Oil-heater. W. W. Hamilton. No. 1,362,789; Dec. 21; v. 281; p. 457.
Oil-heater. S. B. Morss. No. 1,363,342; Dec. 28; v. 281; p. 605.
Oil-heater. W. Patterson. No. 1,354,997; Oct. 5; v. 279; p. 109.
Oil-heater. F. Yokel. No. 1,349,484; Aug. 10; v. 277; p. 316.
Oil heater, Lubricating-. J. F. Berres. No. 1,332,970; Mar. 9; v. 272; p. 204.
Oil-heaters and lamps, Safety device for. J. L. MacDowall and W. K. Bassford. No. 1,343,217; June 15; v. 275; p. 432.
Oil kit. J. W. Layton. No. 1,353,920; Sept. 28; v. 278; p. 571.
Oil-level governor, Crank-case-. C. S. Burton. No. 1,330,236; Feb. 10; v. 271; p. 198.
Oil-lift. C. W. Fisher. No. 1,358,628; Nov. 9; v. 280; p. 339.
Oil-lubricator. P. Jacot. No. 1,359,069; Nov. 16; v. 280; p. 470.
Oil-machine. A. Chermak. No. 1,344,261; June 22; v. 275; p. 700.
Oil, Making gas-. C. Ellis. No. 1,341,975; June 1; v. 275; p. 71.
Oil-motor. W. Eddington. No. 1,331,559; Feb. 24; v. 271; p. 534.
Oil or grease, Apparatus for delivering heavy lubricating. P. B. Johnson. No. 1,333,547; Mar. 9; v. 272; p. 311.
Oil-press. M. B. Green. No. 1,348,869; Aug. 10; v. 277; p. 195.
Oil-press. M. B. Green. No. 1,348,870; Aug. 10; v. 277; p. 195.
Oil-press gage. N. B. Henry. No. 1,357,052; Oct. 26; v. 279; p. 651.
Oil, Recovering crude. I. S. Joseph. No. 1,362,105; Dec. 14; v. 281; p. 272.
Oil, Reduction of hydrogenated. W. J. Overbeck. No. 1,329,845; Feb. 3; v. 271; p. 94.
Oil-refiner. J. S. Leigh. No. 1,339,769; May 11; v. 274; p. 285.
Oil, Refining. F. E. Wellman. No. 1,347,664; July 27; v. 276; p. 638.
Oil-refining apparatus. A. R. Jones. No. 1,328,522; Jan. 20; v. 270; p. 407.
Oil-refining apparatus. F. E. Wellman. No. 1,335,767; Apr. 6; v. 273; p. 12.
Oil-refining apparatus. F. E. Wellman. No. 1,347,567; July 27; v. 276; p. 620.
Oil, Removing odor from fish-. U. Ioka. No. 1,340,050; May 11; v. 274; p. 338.
Oil-retainer. H. C. Uttech and A. E. Ohrmundt. No. 1,353,095; Sept. 14; v. 278; p. 305.
Oil-saving attachment. C. R. Edgecomb. No. 1,357,856; Nov. 2; v. 280; p. 125.
Oil solution, Preparing creosote-. G. A. Cook. No. 1,342,942; June 8; v. 275; p. 314.
Oil solutions, Method and apparatus for emulsifying. J. A. De Cew. No. 1,330,174; Feb. 10; v. 271; p. 187.
Oil-still. W. M. Duncan. No. 1,342,947; June 8; v. 275; p. 315.
Oil-stills, Safety-damper for. V. L. Emerson. No. 1,352,255; Sept. 7; v. 278; p. 104.
Oil storage and heating tank, Fuel-. J. L. Bernard. No. 1,330,779; Feb. 17; v. 271; p. 368.
Oil, System for cracking mineral. F. E. Wellman. No. 1,335,769; Apr. 6; v. 273; p. 13.
Oil-tank. T. J. Rutherford. No. 1,343,480; June 15; v. 275; p. 481.
Oil-tank, Constant-level. O. Kraus. No. 1,357,877; Nov. 2; v. 280; p. 129.
Oil-tank heater. G. I. Worley and C. E. Logan. No. 1,361,212; Dec. 7; v. 281; p. 46.
Oil-tanks, Fire-extinguisher for. I. N. Cooper. No. 1,349,048; Aug. 10; v. 277; p. 230.
Oil under steam-pressure, Method of and apparatus for distributing lubricating-. J. G. Talmage. No. 1,337,179; Apr. 13; v. 273; p. 340.
Oil-washer, Leak-proof. C. J. Hunstad. No. 1,339,762; May 11; v. 274; p. 284.
Oil-well packer. P. H. Mack. No. 1,350,553; Aug. 24; v. 277; p. 643.
Oil-well rig, Rotary. C. L. Goss. No. 1,363,110; Dec. 21; v. 281; p. 519.
Oil-wells, Material excavator and separator for. C. A. Bunker. No. 1,362,775; Dec. 21; v. 281; p. 455.
Oil-wiper and supporting means therefor. O. C. Gruender. No. 1,334,090; Mar. 16; v. 272; p. 474.
Oils and hydrocarbon material from shale and similar bituminous rocks, Extracting. D. T. Day. No. 1,342,741; June 8; v. 275; p. 273.
Oils, Apparatus for hydrogenating. G. Martin. No. 1,333,328; Mar. 9; v. 272; p. 270.
Oils, Apparatus for refining. H. W. Jones. No. 1,336,357; Apr. 6; v. 273; p. 123.
Oils, Apparatus for refining mineral. F. E. Wellman. No. 1,335,773; Apr. 6; v. 273; p. 14.
Oils, Apparatus for the conversion of hydrocarbon-. V. L. Emerson. No. 1,346,797; July 13; v. 276; p. 353.
Oils, Apparatus for treating hydrocarbon-. M. J. Trumble. No. 1,349,794; Aug. 17; v. 277; p. 450.
Oils, Apparatus for treatment of hydrocarbon. R. B. Day. No. 1,357,276; Nov. 2; v. 280; p. 14.
Oils, Apparatus for treatment of hydrocarbon. R. B. Day. No. 1,357,278; Nov. 2; v. 280; p. 15.
Oils, Conversion of hydrocarbon-. V. L. Emerson. No. 1,346,798; July 13; v. 276; p. 353.
Oils, Desulfurizing petroleum-. E. B. Cobb. No. 1,357,224; Nov. 2; v. 280; p. 5.
Oils, Desulfurizing petroleum-. E. B. Cobb. No. 1,357,225; Nov. 2; v. 280; p. 5.
Oils, Distillation of petroleum-. R. E. Humphreys and W. M. Burton. No. 1,343,674; June 15; v. 275; p. 521.
Oils from cans, Removing solid. W. B. Fogh. No. 1,350,599; Aug. 24; v. 277; p. 653.
Oils from citrus fruits, Machine for recovering essential. L. C. Rice. No. 1,341,341; May 25; v. 274; p. 712.
Oils from coal-tar, Extracting. H. H. Comber and J. W. Stalker. No. 1,327,271; Jan. 6; v. 270; p. 73.
Oils from fatty substances, Extracting. G. D. Rogers. No. 1,326,968; Jan. 6; v. 270; p. 17.
Oils, Making lubricating-. L. S. Eastlake. No. 1,352,502; Sept. 14; v. 278; p. 187.
Oils, Manufacturing lubricating. H. Klever, L. C. Lautenschläger, and O. H. Göhring. No. 1,350,814; Aug. 24; v. 277; p. 694.
Oils, Method of and apparatus for extracting. R. Wells. No. 1,357,365; Nov. 2; v. 280; p. 31.
Oils, Preparing catalytic agent for hydrogenating hard. K. Kimura. No. 1,327,396; Jan. 6; v. 270; p. 96.
Oils, Process and apparatus for continuously cracking. W. B. Price and E. Dietz. No. 1,349,294; Aug. 10; v. 277; p. 279.
Oils, Recovery of crude products from benzol light. F. Tschudy. No. 1,348,606; Aug. 3; v. 277; p. 92.
Oils, Refining cracked. E. H. Leslie and C. Barbre. No. 1,337,523; Apr. 20; v. 273; p. 479.
Oils, Removing or decreasing objectionable odors from treated. J. E. Booge. No. 1,337,339; Apr. 20; v. 273; p. 445.
Oils, Removing or decreasing objectionable odors from treated. J. E. Booge. No. 1,357,836; Nov. 2; v. 280; p. 121.
Oils, System for treating hydrocarbon. F. E. Wellman and F. H. Sibley. No. 1,335,770; Apr. 6; v. 273; p. 13.
Oils through the destructive distillation of wood, Recovering. D. L. Hanson. No. 1,330,682; Feb. 10; v. 271; p. 272.
Oils, Treating mineral. W. Johnson. No. 1,354,257; Sept. 28; v. 278; p. 641.
Oils, Treating fatty. C. Ellis. No. 1,343,255; June 15; v. 275; p. 439.
Oils, Treatment of hydrocarbon. R. R. Day. No. 1,357,277; Nov. 2; v. 280; p. 15.
Oils, Vaporizer for heavy. C. C. Manker. No. 1,343,635; June 15; v. 275; p. 513.
Oils, Vaporizer for heavy. C. C. Manker. No. 1,344,423; June 22; v. 275; p. 733.
Oiler. R. Frick. No. 1,357,284; Nov. 2; v. 280; p. 16.
Oiler. E. M. Reid. No. 1,340,406; May 18; v. 274; p. 463.
Oiler, Automatic. C. L. Bubb. No. 1,337,687; Apr. 20; v. 273; p. 510.
Oiler, Automatic R. G. Fiege. No. 1,338,914; May 4; v. 274; p. 49.
Oiler, Automatic. R. G. Fiege. No. 1,344,078; June 22; v. 275; p. 665.
Oiler, Automatic. G. S. Lane. No. 1,360,768; Nov. 30; v. 280; p. 917.
Oiler, Automatic tractor. A. E. Modrell. No. 1,350,559; Aug. 24; v. 277; p. 645.
Oiler, Floor-. P. Belvin. No. 1,350,638; Aug. 24; v. 277; p. 660.
Oiler for air-compressors. E. C. Barchard. No. 1,339,540; May 11; v. 274; p. 241.
Oiler for loose pulleys. J. J. Fortier and J. K. Sherwood. No. 1,345,843; July 6; v. 276; p. 101.
Oiler, Gravity center-. W. W. Nugent. No. 1,352,986; Sept. 14; v. 278; p. 284.
Oiler, Hand-. B. V. Davis. No. 1,331,004; Feb. 17; v. 271; p. 412.
Oiler, Hog-. G. L. Curtright. No. 1,327,088; Jan. 6; v. 270; p. 39.
Oiler, Hog-. A. Morrison. No. 1,360,007; Nov. 23; v. 280; p. 700.
Oiler, Leaf-spring. W. M. White and A. Gauslin. No. 1,339,872; May 11; v. 274; p. 305.
Oiler, Machine-. J. M. Bukacek. No. 1,337,688; Apr. 20; v. 273; p. 510.
Oiler, Saw-. J. G. Speer. No. 1,340,742; May 18; v. 274; p. 526.
Oiler, Skid-. J. T. Smith. No. 1,356,794; Oct. 26; v. 279; p. 600.
Oiler, Spindle-. M. P. Williams. No. 1,360,845; Nov. 30; v. 280; p. 932.
Oiler, Spring-. W. H. Brown. No. 1,339,546; May 11; v. 274; p. 243.
Oiler, Spring-. G. A. Eynon. No. 1,360,629; Nov. 30; v. 280; p. 891.
Oiler, Spring-. A. R. Girton. No. 1,354,903; Oct. 5; v. 279; p. 91.
Oiler, Spring-. H. Norris. No. 1,356,111; Oct. 19; v. 279; p. 420.

Digitized by Google

Alphabetical list of inventions—Continued.

Oiler, Spring-. G. A. Tuttle. No. 1,329,864; Feb. 3; v. 271; p. 98.
Oiler, Spring-. H. A. Wimperis. No. 1,342,365; June 1; v. 275; p. 146.
Oiler, Spring-. G. L. Woodjard. No. 1,331,136; Feb. 17; v. 271; p. 436.
Oiler, Spring-. G. L. Woodjard. No. 1,339,538; May 11; v. 274 p. 241.
Oiler, Spring-leaf. F. Kleinsmith. No. 1,351,174; Aug. 31; v. 277; p. 825.
Oiler, Tool-handle. W. Wilson. No. 1,349,931; Aug. 17; v. 277; p. 475.
Oiler, Tractor-tread. P. F. Naftel and H. H. Garner. No. 1,339,523; May 11; v. 274; p. 238.
Oiler, Twine-. R. Doering. No. 1,335,667; Mar. 30; v. 272; p. 877.
Oilers, &c., Automatic means for operating flange-. C. F. Hoofer. No. 1,343,973; June 22; v. 275; p. 644.
Oiling-cup. C. Kay. No. 1,356,452; Oct. 19; v. 279; p. 486.
Oiling device. C. G. Gronquist. No. 1,356,355; Oct. 19; v. 279; p. 468.
Oiling device. F. Richard. No. 1,348,664; Aug. 3; v. 277; p. 104.
Oiling device. D. G. Roos. No. 1,338,160; Apr. 27; v. 273; p. 670.
Oiling device, Mechanical. A. C. Hallbom. No. 1,361,458; Dec. 7; v. 281; p. 97.
Oiling device, Spring-. F. Hartung. No. 1,332,831; Mar. 2; v. 272; p. 125.
Oiling device, Spring-. J. Mackie and J. J. Cottrell. No. 1,335,516; Mar. 30; v. 272; p. 848.
Oiling system. A. Costa. No. 1,350,643; Aug. 24; v. 277; p. 661.
Oiling system. F. Reaugh. No. 1,357,301; Nov. 2; v. 280; p. 20.
Oiling system. C. F. Schell. No. 1,340,687; May 18; v. 274; p. 516.
Oiling system, Elevator-. F. A. Hecht, Jr. No. 1,347,854; July 27; v. 276; p. 677.
Oiling the wheels of tramway and like vehicles, Means for. T. Abbott. No. 1,351,196; Aug. 31; v. 277; p. 830.
Oilcloth - cutting machine. F. M. Baldwin. No. 1,352,240; Sept. 7; v. 278; p. 101.
Oleaginous materials from containers, Device for removing semisolid. W. B. Fogh. No. 1,350,598; Aug. 24; v. 277; p. 653.
Oleaginous substances from oleaginous substance containing materials, Extracting. J. MacGregor. No. 1,351,483; Aug. 31; v. 277; p. 887.
Onion-weeder. A. Amecle. No. 1,332,095; Feb. 24; v. 271; p. 636.
Open-hearth furnace. F. Carter. No. 1,331,804; Feb. 24; v. 271; p. 581.
Open-hearth furnace. J. C. Cromwell. No. 1,338,288; Apr. 27; v. 273; p. 694.
Open-hearth furnace. J. O. Griggs. No. 1,331,989; Feb. 24; v. 271; p. 616.
Open-hearth furnace. J. O. Griggs. No. 1,353,830; Sept. 28; v. 278; p. 554.
Open-hearth furnace. F. B. McKune. No. 1,339,855; May 11; v. 274; p. 302.
Open-hearth furnace, Reversible. C. D. Fuller. No. 1,362,412; Dec. 14; v. 281; p. 331.
Open-side furnace. W. S. Rockwell. No. 1,359,532; Nov. 23; v. 280; p. 606.
Opera-chair. F. Fessler. No. 1,339,445; May 11; v. 274; p. 223.
Opera-chair. F. F. Fischer. No. 1,330,692; Feb. 10; v. 271; p. 283.
Operating mechanism. F. L. Gormley. No. 1,334,489; Mar. 23; v. 272; p. 595.
Operating mechanism, Valve-. W. U. Griffiths. No. 1,356,278; Oct. 19; v. 279; p. 459.
Operating-table. L. Ertl. No. 1,328,140; Jan. 13; v. 270; p. 297.
Operating-table, Surgical. T. Olinger. No. 1,357,414; Nov. 2; v. 280; p. 40.
Operating-table. W. W. Van Dolsen. No. 1,361,420; Dec. 7; v. 281; p. 88.
Operation-control record. H. A. Arthur. No. 1,336,120; Apr. 6; v. 273; p. 79.
Ophthalmic-lens frame. E. J. R. Beattey. No. 1,344,474; June 22; v. 275; p. 743.
Ophthalmic mounting. A. A. Arnold. No. 1,347,140; July 20; v. 276; p. 478.
Ophthalmic mounting. W. H. Boutelle. No. 1,353,311; Sept. 21; v. 278; p. 407.
Ophthalmic mounting. L. W. Bugbee. No. 1,340,875; May 25; v. 274; p. 622.
Ophthalmic mounting. S. J. Clulee. No. 1,362,577; Dec. 14; v. 281; p. 363.
Ophthalmic mounting. C. O. Cozzens. No. 1,359,154; Nov. 16; v. 280; p. 486.
Ophthalmic mounting. G. H. Day. No. 1,335,818; Mar. 30; v. 272; p. 812.
Ophthalmic mounting. G. H. Day. No. 1,343,437; June 15; v. 275; p. 474.
Ophthalmic mounting. G. H. Day. No. 1,344,293; June 22; v. 275; p. 707.
Ophthalmic mounting. G. H. Dav. No. 1,348,155; Aug. 3; v. 277; p. 4.
Ophthalmic mounting. L. O. Gagnon. No. 1,361,150; Dec. 7; v. 281; p. 33.
Ophthalmic mounting. P. H. Herbert. No. 1,347,462; July 20; v. 276; p. 542.
Ophthalmic mounting. P. H. Herbert. No. 1,349,378; Aug. 10; v. 277; p. 296.
Ophthalmic mounting. C. F. Propson. No. 1,330,819; Feb. 17; v. 271; p. 375.
Ophthalmic mounting. E. L. Schumacher. No. 1,341,344; May 25; v. 274; p. 713.
Ophthalmic mounting. W. S. Searles. No. 1,345,029; June 29; v. 275; p. 915.
Ophthalmic mounting. F. A. Stevens. No. 1,338,880; May 4; v. 273; p. 42.
Ophthalmic mounting. H. H. Styll. No. 1,330,824; Feb. 17; v. 271; p. 376.
Ophthalmic mounting. J. R. Van Tassel. No. 1,350,430; Aug. 24; v. 277; p. 619.
Ophthalmic mounting. W. L. Wall. No. 1,360,603; Nov. 30; v. 280; p. 885.
Ophthalmic mounting. J. C. Wells. No. 1,332,242; Mar. 2; v. 272; p. 12.
Ophthalmic mountings, Construction of. O. G. Schutze. No. 1,343,090; June 8; v. 275; p. 343.
Optical apparatus. W. Meyer. No. 1,353,259; Sept. 21; v. 278; p. 396.
Optical apparatus and operating same. A. R. Dennington. No. 1,338,818; May 4; v. 274; p. 31.
Optical element and method and means for making same, Multifocal. A. E. Paige. No. 1,351,785; Sept. 7; v. 278; p. 14.
Optical element and method and means for making same, Multifocal. A. E. Paige. (Reissue.) No. 15,007; Dec. 14; v. 281; p. 366.
Optical instrument. H. H. Heylmun. No. 1,355,397; Oct. 12; v. 279; p. 240.
Optical instrument. N. A. Shigon. No. 1,351,221; Aug. 31; v. 277; p. 835.
Optical printer. H. B. Byron. No. 1,351,618; Aug. 31; v. 277; p. 914.
Optical projecting apparatus, Condensing system for. H. P. Gage and W. Churchill. No. 1,333,804; Mar. 9; v. 272; p. 265.
Optical pyrometric method and apparatus. F. E. Bash. No. 1,362,281; Dec. 14; v. 281; p. 306.
Optical pyrometry. C. D. Ehret. No. 1,362,403; Dec. 14; v. 281; p. 330.
Optical sign. E. Hönig. No. 1,349,277; Aug. 10; v. 277; p. 276.
Optical study of the motion of mechanisms, Process and apparatus for the. I. Koechlin. No. 1,329,909; Feb. 3; v. 271; p. 106.
Optical trial-frame holder. F. H. Harm. No. 1,328,669; Jan. 20; v. 270; p. 484.
Optiphone. F. C. Brown. No. 1,352,940; Sept. 14; v. 278; p. 274.
Optophone. A. Barr, W. Stroud, and E. E. F. d'Albe. No. 1,350,954; Aug. 24; v. 277; p. 720.
Oranges, Treating. M. Henius. No. 1,343,915; June 22; v. 275; p. 634.
Orchard-heater, Smokeless. W. R. Crawford. No. 1,353,636; Sept. 21; v. 278; p. 472.
Orchards, Preventing frost or heat injury in. E. S. Cobb. No. 1,357,314; Nov. 2; v. 280; p. 22.
Order-blank, Tailor's. H. C. Dixon. No. 1,339,693; May 11; v. 274; p. 271.
Ordnance. E. A. L. Bourdelles. No. 1,347,803; July 27; v. 276; p. 666.
Ordnance. A. T. Dawson and G. T. Buckham. No. 1,355,388; Oct. 12; v. 279; p. 238.
Ordnance. L. D. Fisher. No. 1,359,045; Nov. 16; v. 280; p. 466.
Ordnance. E. A. Muir. No. 1,346,794; July 13; v. 276; p. 352.
Ordnance. F. W. S. Stokes. No. 1,334,413; Mar. 23; v. 272; p. 582.
Ordnance. F. W. S. Stokes. No. 1,334,414; Mar. 23; v. 272; p. 582.
Ordnance, Automatic electrically-fired. H. Hasting. No. 1,335,500; Mar. 30; v. 272; p. 845.
Ordnance, Breech-loading. A. T. Dawson and G. T. Buckham. No. 1,327,087; Jan. 6; v. 270; p. 39.
Ordnance-breech mechanism. A. L. Dawson and G. T. Buckham. No. 1,340,215; May 18; v. 274; p. 427.
Ordnance breech mechanism. A. T. Dawson and G. T. Buckham. No. 1,345,536; July 6; v. 276; p. 41.
Ordnance, Breech mechanism of. A. T. Dawson and G. T. Buckham. No. 1,337,004; Apr. 13; v. 273; p. 306.
Ordnance-control means. J. M. Miller. No. 1,360,664; Nov. 30; v. 280; p. 897.
Ordnance device. W. B. D. Gay. No. 1,343,557; June 15; v. 275; p. 498.
Ordnance firing mechanism. A. T. Dawson and G. T. Buckham. No. 1,360,195; Nov. 23; v. 280; p. 737.
Ordnance firing mechanism. A. T. Dawson and G. T. Buckham. No. 1,360,731; Nov. 30; v. 280; p. 910.
Ordnance, Lock mechanism of. A. T. Dawson and G. T. Buckham. No. 1,337,308; Apr. 20; v. 273; p. 439.
Ordnance recoil and run-out apparatus. A. T. Dawson and G. T. Buckham. No. 1,342,709; June 8; v. 275; p. 267.

Digitized by Google

Ordnance recoil and run-out apparatus. A. T. Dawson and G. T. Buckham. No. 1,344,621; June 29; v. 275; p. 837.
Ordnance, Recoil and run-out gear for. A. T. Dawson and G. T. Buckham. No. 1,342,708; June 8; v. 275; p. 266.
Ordnance, Recoil apparatus of. A. T. Dawson and G. T. Buckham. No. 1,350,593; Aug. 24; v. 277; p. 652.
Ordnance recoil-check. E. C. Moriarty. No. 1,358,386; Nov. 9; v. 280; p. 291.
Ordnance, Recoil-operated. L. Pacilli. No. 1,332,060; Feb. 24; v. 271; p. 629.
Ordnance sighting apparatus. A. A. Dawson and G. T. Buckham. No. 1,328,914; Jan. 27; v. 270; p. 509.
Ordnance, Sighting apparatus for use with. H. T. Dawson and J. Horne. No. 1,364,040; Dec. 28; v. 281; p. 739.
Ordnance, Sighting apparatus for use with. H. T. Dawson and J. Horne. No. 1,364,041; Dec. 28; v. 281; p. 739.
Ore, Apparatus for desulfurizing and treating. B. Q. P. Foss. No. 1,338,292; Apr. 27; v. 273; p. 695.
Ore-bin-locking device. C. Zoog. No. 1,332,373; Mar. 2; v. 272; p. 39.
Ore-concentrating apparatus. J. T. Terry, Jr. No. 1,362,370; Dec. 14; v. 281; p. 323.
Ore-concentrating device. B. H. Dosenbach. No. 1,354,031; Sept. 28; v. 278; p. 594.
Ore-concentrating table. B. A. Hughes. No. 1,343,266; June 15; v. 275; p. 440.
Ore-concentrating tables, Operating mechanism for. S. H. Boylan. No. 1,361,674; Dec. 7; v. 281; p. 140.
Ore concentration. B. H. Dosenbach. No. 1,350,364; Aug. 24; v. 277; p. 606.
Ore-concentration apparatus. F. Groch. No. 1,333,712; Mar. 16; v. 272; p. 403.
Ore-concentration jig. A. P. Standefer. No. 1,333,001; Mar. 9; v. 272; p. 209.
Ore, Concentration of. F. G. Gasche. No. 1,359,496; Nov. 23; v. 280; p. 598.
Ore-concentrator. E. and W. F. Deister. No. 1,335,824; Apr. 6; v. 273; p. 23.
Ore-concentrator. D. H. Donegan. No. 1,352,882; Sept. 14; v. 278; p. 264
Ore-concentrator. L. S. Polo. No. 1,332,751; Mar. 2; v. 272; p. 110.
Ore-concentrator. E. A. Williams and A. H. Ward. No. 1,356,249; Oct. 19; v. 279; p. 447.
Ore-concentrators, Driving mechanism for. W. G. Burns. No. 1,353,451; Sept. 21; v. 278; p. 434.
Ore-dressing jig. G. T. Cooley. No. 1,334,841; Mar. 23; v. 272; p. 662.
Ore-feeder. C. C. Hamill. No. 1,343,868; June 15; v. 275; p. 560.
Ore-flotation agent, Producing an. H. Cannon, C. Barbre, and E. H. Leslie. No. 1,337,542; Apr. 20; v. 273; p. 483.
Ore-flotation apparatus. J. B. Brown. No. 1,351,155; Aug. 31; v. 277; p. 821.
Ore-flotation apparatus. R. Gahl and R. M. Haskell. No. 1,343,123; June 8; v. 275; p. 350.
Ore grinder and amalgamator, Combined. W. De Coursey. No. 1,343,041; June 8; v. 275; p. 333.
Ore-grinding machine. G. W. Morthland. No. 1,363,990; Dec. 28; v. 281; p. 729.
Ore leaching and settling tank. R. Gahl. No. 1,341,208; May 25; v. 274; p. 687.
Ore-loader. S. H. Hunt. No. 1,334,454; Mar. 23; v. 272; p. 589.
Ore, Magnetic sizing and grading of. W. G. Swart, F. A. Jordan, E. W. Davis, and T. B. Counselman. No. 1,339,300; May 4; v. 274; p. 119.
Ore reducing and refining furnace. H. L. Charles. No. 1,348,151; Aug. 3; v. 277; p. 4.
Ore-reducing process and furnace. E. H. Hamilton. No. 1,362,570; Dec. 14; v. 281; p. 362.
Ore-roasting furnace. E. Bracq. No. 1,356,849; Oct. 26; v. 279; p. 611.
Ore-sampler. L. S. Stewart. No. 1,362,968; Dec. 21; v. 281; p. 491.
Ore-separating machine. G. Demaine. No. 1,339,056; May 4; v. 274; p. 76.
Ore-separating machines, or so called jigs, Discharging device for the heaviest ore or rock in. C. Nielsen and O. Helleland. No. 1,361,171; Dec. 7; v. 281; p. 38.
Ore separation, Grizzly for. W. Ross. No. 1,332,305; Mar. 2; v. 272; p. 25.
Ore separation, Process and apparatus for. J. D. Ross. No. 1,328,456; Jan. 20; v. 270; p. 393.
Ore-separator. J. E. Armitstead. No. 1,356,332; Oct. 19; v. 279; p. 464.
Ore-separator. E. F. Coldwell. No. 1,363,760; Dec. 28; v. 281; p. 685.
Ore-separator. J. Hicks. No. 1,346,824; July 20; v. 276; p. 416.
Ore-separator. R. J. Piersol. No. 1,335,600; Mar. 30; v. 272; p. 864.
Ore-separator and process, Flotation. R. Gahl. No. 1,346,817; July 20; v. 276; p. 415.
Ore-separator, Centrifugal. J. A. Rice. No. 1,344,519; June 22; v. 275; p. 752.
Ore-separator, Flotation. R. Gahl. No. 1,346,818; July 20; v. 276; p. 415.
Ore-separator, Magnetic. H. W. Arnold. No. 1,362,072; Dec. 14; v. 281; p. 265.
Ore separator, Magnetic. A. F. Jobke. No. 1,346,544; July 13; v. 276; p. 302.
Ore-sizing apparatus. J. O. Bardill. No. 1,332,967; Mar. 9; v. 272; p. 203.
Ore-smelting furnace, Electric iron-. J. D. Shipton. No. 1,338,103; Apr. 27; v. 273; p. 659.
Ores and apparatus therefor, Treating. C. S. Fogh. No. 1,362,408; Dec. 14; v. 281; p. 331.
Ores, Apparatus for agglomerating. E. W. Davis. No. 1,350,440; Aug. 24; v. 277; p. 622.
Ores, Apparatus for extracting minerals from. G. M. Shires. No. 1,328,210; Jan. 13; v. 270; p. 311.
Ores, Apparatus for roasting or sintering. J. E. Greenawalt. No. 1,348,407; Aug. 3; v. 277; p. 55.
Ores, Apparatus for separating or concentrating. D. Cole. No. 1,351,096; Aug. 31; v. 277; p. 810.
Ores, Apparatus for the concentration of. F. G. Gasche. No. 1,359,497; Nov. 23; v. 280; p. 598.
Ores, Apparatus for the concentration of. F. J. Lyster. No. 1,352,072; Sept. 7; v. 278; p. 69.
Ores, Apparatus for the treatment of sulfid. L. V. Waterhouse. No. 1,346,286; July 13; v. 276; p. 251.
Ores, Briqueting. W. Tyrrell. No. 1,356,100; Oct. 19; v. 279; p. 418.
Ores, Briqueting. F. A. Vogel. No. 1,334,331; Mar. 23; v. 272; p. 566.
Ores by flotation, Method of and apparatus for concentrating oxidized. J. M. Callow, J. W. Thompson, and J. T. Terry, Jr. No. 1,334,734; Mar. 23; v. 272; p. 641.
Ores by sulfidation and flotation, Method and apparatus for concentrating oxidized. J. M. Callow, J. W. Thompson, and J. T. Terry, Jr. No. 1,334,733; Mar. 23; v. 272; p. 641.
Ores, Calcining. W. H. Corbould. No. 1,358,293; Nov. 9; v. 280; p. 271.
Ores, Chemical separation of. A. T. Elliott. No. 1,327,536; Jan. 6; v. 270; p. 122.
Ores, Concentrating. R. H. Richards. No. 1,359,105; Nov. 16; v. 280; p. 476.
Ores, Concentrating. J. T. Terry, Jr. No. 1,334,420; Mar. 23; v. 272; p. 583.
Ores, Concentration of. E. Edser and S. Tucker. No. 1,337,548; Apr. 20; v. 273; p. 484.
Ores, Extracting metals from their. W. E. Greenawalt. No. 1,345,846; July 6; v. 276; p. 102.
Ores, Extraction of lead from its. F. E. Elmore. No. 1,350,959; Aug. 24; v. 277; p. 721.
Ores for sintering and product thereof, Preparing fine. F. A. Eustis. No. 1,341,890; June 1; v. 275; p. 54.
Ores in blast-furnaces, Treating. L. P. Basset. No. 1,349,598; Aug. 17; v. 277; p. 412.
Ores, Machine for the separation of sulfid. H. V. Seale and W. Shellshear. No. 1,341,024; May 25; v. 274; p. 651.
Ores, Method of and apparatus for concentrating. J. M. Callow. No. 1,329,335; Jan. 27; v. 270; p. 587.
Ores, minerals, and clays, Eliminating volatile matter and gases from. S. L. Boggs. No. 1,363,387; Dec. 28; v. 281; p. 613.
Ores or other materials, Process and apparatus for concentrating. S. H. Dolbear. No. 1,343,313; June 15; v. 275; p. 449.
Ores, Process and apparatus for smelting volatile. W. D. Kilbourn. No. 1,358,856; Nov. 16; v. 280; p. 430.
Ores, Process and apparatus for the reduction of metallic oxid. J. W. Moffat. No. 1,348,889; Aug. 10; v. 277; p. 198.
Ores, Recovering vanadium from certain iron. W. M. Goodwin and A. F. G. Cadenhead. No. 1,359,473; Nov. 16; v. 280; p. 549.
Ores, Recovery of titanium from its. O. T. Coffelt. No. 1,357,690; Nov. 2; v. 280; p. 92.
Ores, Reducing tungsten. D. J. Giles. No. 1,348,356; Aug. 3; v. 277; p. 45.
Ores, Separation of. A. A. Lockwood. No. 1,329,127; Jan. 27; v. 270; p. 549.
Ores, Sulfidation and flotation of. J. W. Thompson. No. 1,334,721; Mar. 23; v. 272; p. 639.
Ores, System of riffling oscillating tables for the treatment of. R. E. Trottier. No. 1,356,179; Oct. 19; v. 279; p. 434.
Ores, Treating. G. L. Collord. No. 1,343,249; June 15; v. 275; p. 438.
Ores, Treating. G. L. Collord. No. 1,343,250; June 15; v. 275; p. 438.
Ores, Treating. J. E. Greenawalt. No. 1,348,408; Aug. 3; v. 277; p. 55.
Ores, Treating. L. B. Skinner. No. 1,350,286; Aug. 17; v. 277; p. 544.
Ores, Treating. F. W. Wood. No. 1,334,981; Mar. 30; v. 272; p. 749.
Ores, Treating copper. N. C. Christensen. No. 1,357,952; Nov. 9; v. 280; p. 205.
Ores, Treating manganese-silver. L. W. Austin. No. 1,327,974; Jan. 13; v. 270; p. 266.
Ores, Treating nickel. M. H. Caron. No. 1,346,175; July 13; v. 276; p. 229.
Ores, Treating silver. L. P. Burrows. No. 1,355,795; Oct. 12; v. 279; p. 316.
Ores, Treatment of manganese. G. D. Van Arsdale and C. G. Maier. No. 1,348,068; July 27; v. 276; p. 720.

Digitized by Google

Organ-action, Electropneumatic. B. G. Austin. No. 1,335,417; Mar. 30; v. 272; p. 830.
Organ, Automatic. C. Kralicek. No. 1,350,818; Aug. 24; v. 277; p. 695.
Organ, Mouth-. E. Lamprecht. No. 1,339,960; May 11; v. 274; p. 321.
Organ, Pipe-. H. B. Hulbert. No. 1,333,715; Mar. 16; v. 272; p. 404.
Organ, Pipe-. E. G. Schwarz. No. 1,354,853; Oct. 5; v. 279; p. 81.
Organ-pipe feet, Plug for. E. B. Hedges. No. 1,331,258; Feb. 17; v. 271; p. 458.
Organ pipe, Reed-. W. G. Jeffrey. No. 1,359,897; Nov. 23; v. 280; p. 678.
Organ-player mechanism, Selective. R. S. Irvine. No. 1,331,506; Feb. 24; v. 271; p. 524.
Organ-stops, Combined electromagnetically and manually operable. W. Kaisling. No. 1,353,594; Sept. 21; v. 278; p. 463.
Organs, Combination action for. H. T. Depue. No. 1,349,820; Aug. 17; v. 277; p. 454.
Organs, Combination-action for. J. W. Starkie and C. E. Clinton. No. 1,360,695; Nov. 30; v. 280; p. 903.
Organs, Swell-box for pipe-. W. C. Reed. No. 1,353,667; Sept. 21; v. 278; p. 478.
Organic substances, Apparatus for treating waste. A. Maclachlan. No. 1,359,085; Nov. 16; v. 280; p. 473.
Organic substances, Process of and apparatus for treating waste. A. Maclachlan. No. 1,360,427; Nov. 30; v. 280; p. 850.
Organic substances, Treating waste. A. Maclachlan. No. 1,359,086; Nov. 16; v. 280; p. 473.
Orientator. W. G. Ruggles. No. 1,342,871; June 8; v. 275; p. 300.
Orifice-precipitator. L. Bradley. No. 1,344,330; June 22; v. 275; p. 714.
Ornament-support. J. E. Evilsizor and C. Follrath. No. 1,344,027; June 22; v. 275; p. 655.
Ornamental bracket. J. A. Carmody. No. 1,329,651; Feb. 3; v. 271; p. 57.
Ornamental work similar to lace or drawn work. L. A. Strasburger. No. 1,333,687; Mar. 16; v. 272; p. 399.
Orthodontha apparatus. G. A. Millard. No. 1,362,339; Dec. 14; v. 281; p. 317.
Orthodontia appliance. C. L. Alexander. No. 1,361,661; Dec. 7; v. 281; p. 187.
Orthodontia appliance, Locking means for. F. T. Murlless, Jr. No. 1,347,285; July 20; v. 276; p. 507.
Orthodontic apparatus. A. P. Rogers. No. 1,363,534; Dec. 28; v. 281; p. 641.
Orthodontic implement. E. H. Angle. No. 1,346,584; July 13; v. 276; p. 310.
Orthooxyazodyestuffs, Substantive. E. Anderwert and H. Fritzsche. No. 1,338,414; Apr. 27; v. 273; p. 717.
Orthopedic appliance. W. W. Winiarski. No. 1,356,327; Oct. 19; v. 279; p. 453.
Orthopedic device. M. L. Severy. No. 1,350,944; Aug. 24; v. 277; p. 718.
Orthopedic pad. A. B. Plummer. No. 1,336,979; Apr. 13; v. 273; p. 302.
Oscillating-current generator. L. de Forest. No. 1,329,758; Feb. 3; v. 271; p. 77.
Oscillating motor. W. J. O'Leary. No. 1,327,250; Jan. 6; v. 270; p. 69.
Oscillating motor, Double-coil. L. O. Crenshaw. No. 1,347,209; July 20; v. 276; p. 491.
Oscillation generator. R. V. L. Hartley. No. 1,356,763; Oct. 26; v. 279; p. 594.
Oscillation generator system. C. V. Logwood. No. 1,351,776; Sept. 7; v. 278; p. 12.
Oscillations, Receiving high-frequency. E. H. Armstrong. No. 1,342,885; June 8; v. 275; p. 303.
Oscillations, System for producing. A. N. Goldsmith and J. Wimberger. No. 1,334,087; Mar. 16; v. 272; p. 474.
Osteopathic table. J. V. McManis. No. 1,337,145; Apr. 13; v. 273; p. 333.
Outlet-box. W. A. Bonnell. No. 1,330,620; Feb. 10; v. 271; p. 269.
Outlet-box. W. A. Titus. No. 1,333,003; Mar. 9; v. 272; p. 210.
Outlet-box, Conduit. A. H. Schneider. No. 1,327,409; Jan. 6; v. 270; p. 98.
Outlet-box connection. O. H. Nickerson. No. 1,358,774; Nov. 16; v. 280; p. 413.
Outlet-boxes, Conduit connection for. M. C. Rosenfeld. No. 1,356,831; Oct. 26; v. 279; p. 608.
Outlet-boxes, Means for securing electrical fittings to conduit. L. Milne. No. 1,355,905; Oct. 19; v. 279; p. 379.
Outlet-boxes, Support for. E. H. Kruse. No. 1,354,309; Sept. 28; v. 278; p. 651.
Oval-object-forming machine. G. Strobino. No. 1,359,545; Nov. 23; v. 280; p. 608.
Oven. H. H. Chaffee. No. 1,349,494; Aug. 10; v. 277; p. 318.
Oven. E. F. Collins. No. 1,334,840; Mar. 23; v. 272; p. 662.
Oven. T. Davis. No. 1,330,849; Feb. 17; v. 271; p. 380.
Oven. J. H. Macdermid and H. S. Wells. No. 1,334,465; Mar. 23; v. 272; p. 590.
Oven. D. J. Monihan. No. 1,342,455; June 8; v. 275; p. 218.
Oven. O. S. Sleeper. No. 1,362,151; Dec. 14; v. 281; p. 281.
Oven. J. W. Whittinghill. No. 1,341,829; June 1; v. 275; p. 43.
Oven and loading device therefor, Baking-. G. L. Gay. No. 1,348,355; Aug. 3; v. 277; p. 44.
Oven, Annealing-. J. D. Green. No. 1,360,932; Nov. 30; v. 280; p. 949.
Oven attachment. R. Abrecht. No. 1,359,306; Nov. 16; v. 280; p. 515.
Oven, Bake-. H. Partoll. No. 1,334,115; Mar. 16; v. 272; p. 479.
Oven, Bake-. C. Rinck. No. 1,345,107; June 29; v. 275; p. 929.
Oven, Baker's. G. L. Gay. No. 1,359,886; Nov. 23; v. 280; p. 676.
Oven, Baker's. G. H. Hodge and J. C. Robinson. No. 1,337,909; Apr. 20; v. 273; p. 553.
Oven, Baker's. W. G. Hopkins and F. J. Sullivan. No. 1,336,782; Apr. 13; v. 273; p. 264.
Oven, Baking-. F. C. Haller. No. 1,359,247; Nov. 16; v. 280; p. 504.
Oven, Baking-. A. R. Ross. No. 1,349,436; Aug. 10; v. 277; p. 307.
Oven, Baking-. L. T. Wilcox. No. 1,356,102; Oct. 19; v. 279; p. 418.
Oven-burner, Gas-range. C. V. Roberts. No. 1,328,589; Jan. 20; v. 270; p. 419.
Oven, Coke-. H. W. Buhler. No. 1,341,257; May 25; v. 274; p. 696.
Oven, Coke-. H. W. Buhler. No. 1,341,258; May 25; v. 274; p. 696.
Oven-door-shifting mechanism. I. D. Thomas. No. 1,346,474; July 13; v. 276; p. 288.
Oven-doors, Fastening means for. L. S. Chadwick and C. C. Rehmer. No. 1,358,287; Nov. 9; v. 280; p. 270.
Oven, Electric. F. M. Sutton. No. 1,336,105; Apr. 6; v. 273; p. 76.
Oven, Gas-. A. H. Kohlmeyer. No. 1,358,217; Nov. 9, v. 280; p. 257.
Oven-grill. G. B. Caswell. No. 1,352,352; Sept. 7; v. 278; p. 122.
Oven, Japanning-. O. Porbeck. No. 1,354,210; Sept. 28; v. 278; p. 631.
Oven, Multiple baker's. O. Wundrack. No. 1,339,616; May 11; v. 274; p. 256.
Oven or furnace. G. M. Hollenback. No. 1,331,644; Feb. 24; v. 271; p. 551.
Oven or furnace. G. M. Hollenbeck. No. 1,341,903; June 1; v. 275; p. 57.
Oven, Portable baker's. G. L. Gay. No. 1,340,946; May 25; v. 274; p. 636.
Oven, Removable. C. D. Wilson. No. 1,336,058; Apr. 6; v. 273; p. 67.
Oven, Rotary baking-. C. O. Lucas. No. 1,328,745; Jan. 20; v. 270; p. 448.
Oven rotary table. L. R. Lightle. No. 1,335,844; Apr. 6; v. 273; p. 26.
Oven, Sectional. A. Maehler. No. 1,339,601; May 11; v. 274; p. 253.
Oven-shelf. J. W. Coumerilh. No. 1,351,415; Aug. 31; v. 277; p. 874.
Oven-shelf. W. B. Martin. No. 1,351,394; Aug. 31; v. 277; p. 870.
Oven, Steam baking-. G. H. Hodge and J. C. Robinson. No. 1,332,216; Mar. 2; v. 272; p. 7.
Oven turntable-rack. O. L. Partonnar. No. 1,350,330; Aug. 24; v. 277; p. 599.
Oven with regenerator. C. Berthelot. No. 1,340,104; May 11; v. 274; p. 348.
Oven with regenerator. C. Berthelot. No. 1,361,671; Dec. 7; v. 281; p. 139.
Ovens, Bottle-feeding mechanism for annealing-. W. Stender. No. 1,339,834; May 11; v. 274; p. 297.
Ovens, Device for reversing gaseous currents in. E. Lecocq. No. 1,361,595; Dec. 7; v. 281; p. 125.
Ovens, Interchangeable protector-plate for. L. W. Neidhardt. No. 1,359,096; Nov. 16; v. 280; p. 475.
Ovens, Thermostatic fuel control for gas-heated. B. E. Meacham. No. 1,334,776; Mar. 23; v. 272; p. 650.
Ovens, Thermostatic fuel-regulating device for gas-. B. E. Meacham. No. 1,339,964; May 11; v. 274; p. 322.
Ovens, Valve for coke-. W. E. Roberts. No. 1,347,056; July 20; v. 276; p. 462.
Overalls. H. Godchaux. No. 1,341,313; May 25; v. 274; p. 706.
Overalls. J. A. Horn. No. 1,341,506; May 25; v. 274; p. 744.
Overalls. A. Hosner. No. 1,345,779; July 6; v. 276; p. 89.
Overalls, Combination-. M. M. Horn. No. 1,356,364; Oct. 19; v. 279; p. 470.
Overalls, Union-. G. L. Campbell. No. 1,341,224; May 25; v. 274; p. 690.
Overflow separating device. C. Allen. No. 1,355,070; Oct. 5; v. 279; p. 124.
Overgarment, Union-. C. M. Bazzeghin. No. 1,334,129; Mar. 16; v. 272; p. 482.
Overhead carrier. A. H. Neller. No. 1,336,370; Apr. 6; v. 273; p. 126.
Overhead carriers. Track for. P. M. Hassler. No. 1,346,313; July 13; v. 276; p. 257.

Digitized by Google

Alphabetical list of inventions—Continued.

Overhead crossing. D. B. Luten. No. 1,334,872; Mar. 23; v. 272; p. 669.
Overhead-track hanger. A. H. Neller. No. 1,349,141; Aug. 10; v. 277; p. 248.
Overhead transit apparatus. O. Bartlett and H. Fryer. No. 1,347,482; July 20; v. 276; p. 546.
Overhead switch. C. H. Desautels. No. 1,337,121; Apr. 13; v. 273; p. 329.
Overload device. A. R. Sanborn. No. 1,328,457; Jan. 20; v. 270; p. 394.
Overseaming sewing-machines, Looper mechanism for. A. H. De Voe. No. 1,334,651; Mar. 23; v. 272; p. 625.
Overshoe. H. Westling. No. 1,339,994; May 11; v. 274; p. 327.
Overshoe, Baseball-. J. B. Yarnell and H. Frank. No. 1,340,356; May 18; v. 274; p. 453.
Overshot. R. A. Dailey. No. 1,351,744; Sept. 7; v. 278; p. 6.
Overshot. G. C. Dakins and H. A. Harker. No. 1,336,684; Apr. 13; v. 273; p. 245.
Overshot. J. A. Plante. No. 1,345,103; June 29; v. 275; p. 929.
Oxalate, Making calcium. F. M. Dupont and G. A. Hanke. No. 1,349,947; Aug. 17; v. 277; p. 478.
Oxyaldehydes and their ethers, Manufacture of. A. Weiss. No. 1,345,649; July 6; v. 276; p. 62.
Oxid, Converting refractory. L. E. Saunders. No. 1,352,887; Sept. 7; v. 278; p. 129.
Oxid, Manufacture of pure ferric. F. Hemingway. No. 1,337,402; Apr. 20; v. 273; p. 456.
Oxid, Obtaining titanic. L. E. Barton. No. 1,348,843; Aug. 10; v. 277; p. 190.
Oxid, Obtaining zirconium. L. E. Barton. No. 1,351,091; Aug. 31; v. 277; p. 809.
Oxid ores of manganese, Treating. G. H. Clevenger and M. H. Caron. No. 1,349,322; Aug. 10; v. 277; p. 284.
Oxid, Recovery of nitrogen. P. A. Guye. No. 1,331,104; Feb. 17; v. 271; p. 430.
Oxid, Recovery of nitrogen. P. A. Guye. No. 1,331,105; Feb. 17; v. 271; p. 430.
Oxid (zirconia) from ores and minerals, Separating and extracting zirconium. J. Gordon. No. 1,340,888; May 25; v. 274; p. 625.
Oxids in neutral water solutions, Electrolytic production of. S. Fry. No. 1,361,041; Dec. 7; v. 281; p. 12.
Oxids, Method of and apparatus for reducing metallic. A. E. Bourcoud. No. 1,344,977; June 29; v. 275; p. 904.
Oxids, Process and apparatus for reducing metallic. W. L. Morrison. No. 1,350,419; Aug. 24; v. 277; p. 617.
Oxidizing apparatus. J. R. MacMillan. No. 1,333,327; Mar. 9; v. 272; p. 270.
Oxyacetylene cutting-machine for circular plates. F. Kilts and L. A. Paradis. No. 1,348,363; Aug. 3; v. 277; p. 46.
Oxygen and hydrogen generator. G. Miller. No. 1,334,668; Mar. 23; v. 272; p. 629.
Oxygen, Apparatus for producing liquid. C. F. and O. J. Crommett. No. 1,354,380; Sept. 28; v. 278; p. 665.
Oxygen-concentrator. G. McKerahan. No. 1,339,211; May 4; v. 274; p. 104.
Oyster-shucking knife. K. B. Arthur. No. 1,352,108; Sept. 7; v. 278; p. 76.
Oyster-shucking machine. E. L. Torsch and J. L. Sellar. No. 1,333,843; Mar. 16; v. 272; p. 428.
Ozonator. M. W. Franklin. No. 1,337,062; Apr. 13; v. 273; p. 318.
Ozone-generator. S. Held. No. 1,358,443; Nov. 9; v. 280; p. 303.
Ozone water-purifying apparatus. H. B. Hartman. No. 1,363,589; Dec. 28; v. 281; p. 652.
Ozonizer. W. G. Lindemann. No. 1,363,000; Dec. 21; v. 281; p. 497.
Ozonizing apparatus. W. G. Lindemann. No. 1,362,999; Dec. 21; v. 281; p. 497.
Ozonizing apparatus. P. J. H. Moore. No. 1,326,952; Jan. 6; v. 270; p. 13.
Pack-carrier. L. N. Plante. No. 1,362,136; Dec. 14; v. 281; p. 278.
Package. E. E. Gray. No. 1,333,411; Mar. 9; v. 272; p. 285.
Package. P. E. Hitzigrath. No. 1,352,962; Sept. 14; v. 278; p. 279.
Package, Absorbent-bandage. E. M. Pond. No. 1,351,441; Aug. 31; v. 277; p. 879.
Package, Air or moisture proof. J. S. Stokes. No. 1,343,235; June 15; v. 275; p. 435.
Package and article carrier. C. Fulton. No. 1,335,888; Apr. 6; v. 273; p. 35.
Package and making same, Waterproof. A. H. Shotwell. No. 1,331,590; Feb. 24; v. 271; p. 541.
Package and trash receptacle, Combined. H. Reichman and A. R. Spangenberg. No. 1,327,778; Jan. 13; v. 270; p. 229.
Package, Aseptic ligating-. C. D. Lukens. No. 1,334,916; Mar. 23; v. 272; p. 677.
Package closing and locking mechanism. A. W. Harris. No. 1,348,643; Aug. 3; v. 277; p. 99.
Package-dispensing apparatus. W. P. Dun Lany. No. 1,356,345; Oct. 19; v. 279; p. 466.
Package-dispensing apparatus. Coin-controlled. W. P. Dun Lany. No. 1,336,514; Apr. 13; v. 273; p. 212.
Package-fastener. W. D. La Batt. No. 1,347,861; July 27; v. 276; p. 679.
Package-feeder for carriers. S. Olson. No. 1,362,034; Dec. 14; v. 281; p. 258.
Package, Fuel-. C. S. Spurr and H. P. Randall. No. 1,327,175; Jan. 6; v. 270; p. 55.
Package, Knockdown shipping-. W. G. Seabold. No. 1,359,753; Nov. 23; v. 280; p. 650.
Package, Merchandise-. J. Hofmann. No. 1,345,185; June 29; v. 275; p. 945.
Package-opening means. R. T. Frost. No. 1,343,360; June 15; v. 275; p. 458.
Package, Shipping-. O. O. Eaton. No. 1,353,155; Sept. 21; v. 278; p. 876.
Package, Shipping-. S. Zielezinski. No. 1,348,682; Aug. 3; v. 277; p. 107.
Package, Stationery-. H. R. Thorpe. No. 1,339,908; May 11; v. 274; p. 311.
Package-tie. F. F. Buchanan and N. F. Slack. No. 1,353,717; Sept. 21; v. 278; p. 488.
Package-tie. J. B. Calhoun. No. 1,339,317; May 4; v. 274; p. 123.
Package-tie. J. C. Culligan. No. 1,352,357; Sept. 7; v. 278; p. 123.
Package-tie. J. and W. L. English. No. 1,331,699; Feb. 24; v. 271; p. 561.
Package-tie. D. W. Millsaps. No. 1,360,969; Nov. 30; v. 280; p. 956.
Package-tie. J. H. Reed. No. 1,353,611; Sept. 21; v. 278; p. 467.
Package-tie. W. F. Riley. No. 1,351,344; Aug. 31; v. 277; p. 860.
Package-tie. G. W. Stout. No. 1,358,475; Nov. 9; v. 280; p. 309.
Package-tie. G. W. Stout. No. 1,358,476; Nov. 9; v. 280; p. 309.
Package-tie. G. W. Stout. No. 1,358,477; Nov. 9; v. 280; p. 310.
Package-tie device. J. N. Bennor. No. 1,329,746; Feb. 3; v. 271; p. 75.
Package-tie holder. M. C. Charles. No. 1,327,591; Jan. 6; v. 270; p. 133.
Package-tier. W. C. Yerger. No. 1,357,134; Oct. 26; v. 279; p. 667.
Package, Vulcanizing-material-containing. L. A. Sherman. No. 1,356,662; Oct. 26; v. 279; p. 575.
Package wrapper or label and match-packet, Combination. A. W. Graham. No. 1,351,242; Aug. 31; v. 277; p. 839.
Package-wrapping machine. S. Cooper. No. 1,351,025; Aug. 31; v. 277; p. 797.
Packages, Machine for sealed wrapped. J. D. Reifsnyder. No. 1,352,221; Sept. 7; v. 278; p. 97.
Packages, Producing sealed wrapped. W. A. Weightman and C. H. Nitch. No. 1,352,232; Sept. 7; v. 278; p. 100.
Packaging apparatus. J. G. Phillips. No. 1,330,816; Feb. 17; v. 271; p. 374.
Packaging articles. H. D. Hamilton. No. 1,330,864; Feb. 17; v. 271; p. 383.
Packaging-machine. N. A. Curtiss. No. 1,354,599; Oct. 5; v. 279; p. 30.
Packaging-machine. A. Reynolds. No. 1,359,429; Nov. 16; v. 280; p. 540.
Packaging machinery. S. Cooper. No. 1,333,901; Mar. 16; v. 272; p. 488.
Packaging materials. Machine for. E. E. Winkley. No. 1,348,341; Aug. 3; v. 277; p. 42.
Packaging mechanism. E. H. Angier and W. M. Wheildon. No. 1,362,382; Dec. 14; v. 281; p. 326.
Packer. E. V. Crowell. No. 1,357,958; Nov. 9; v. 280; p. 206.
Packer. M. E. Layne. No. 1,360,540; Nov. 30; v. 280; p. 873.
Packer, Ensilage-. H. E. Cobb. No. 1,353,724; Sept. 21; v. 278; p. 489.
Packer for blooms. J. W. Piercy and J. R. Howard. No. 1,359,195; Nov. 16; v. 280; p. 493.
Packet, Correspondence. W. D. McGann. No. 1,356,078; Oct. 19; v. 279; p. 413.
Packet-holder. B. Ashby. No. 1,328,869; Jan. 27; v. 270; p. 500.
Packet-holder. R. H. Martin. No. 1,334,624; Mar. 23; v. 272; p. 620.
Packing. A. P. Anderson. No. 1,342,198; June 1; v. 275; p. 115.
Packing. G. Christenson. No. 1,330,979; Feb. 17; v. 271; p. 407.
Packing. W. E. Moody. No. 1,353,940; Sept. 28; v. 278; p. 556.
Packing. C. P. Nolte. No. 1,356,393. Oct. 19; v. 279; p. 475.
Packing. H. F. Schmidt. No. 1,329,548; Feb. 3; v. 271; p. 38.
Packing. M. I. Strauss. No. 1,329,588; Feb. 3; v. 271; p. 40.
Packing and boxing machine. S. Palmowski. No. 1,360,573; Nov. 30; v. 280; p. 879.
Packing and display case, Combined. J. M. Shawvan and H. A. Sholes. No. 1,335,397; Mar. 30; v. 272; p. 827.
Packing apparatus. A. R. Treichel and E. J. Brock. No. 1,346,616; July 13; v. 276; p. 316.

Packing-auger. O. R. Hyland. No. 1,350,999; Aug. 24; v. 277; p. 728.
Packing-box. R. J. Boyd. No. 1,329,577; Feb. 3; v. 271; p. 44.
Packing-box. R. L. Lemon. No. 1,346,661; July 13; v. 276; p. 325.
Packing-box lining. J. M. Merrow. No. 1,340,968; May 25; v. 274; p. 640.
Packing-case. L. W. Hughes. No. 1,345,856; July 6; v. 276; p. 103.
Packing, Combination-. A. A. Smith. No. 1,360,593; Nov. 30; v. 280; p. 883.
Packing, Cord-. J. R. Gammeter. No. 1,336,030; Apr. 6; v. 273; p. 62.
Packing device. G. Sykes. No. 1,327,888; Jan. 13; v. 270; p. 250.
Packing element. M. W. Pitner. No. 1,358,243; Nov. 9; v. 280; p. 261.
Packing for steam-turbine shafts. E. D. Spicer. No. 1,339,297; May 4; v. 274; p. 119.
Packing-form. A. B. Kellerman. No. 1,335,972; Apr. 6; v. 273; p. 51.
Packing-frame. G. T. Mallette. No. 1,347,643; July 27; v. 276; p. 634.
Packing-gasket. J. H. Allison. No. 1,359,142; Nov. 16; v. 280; p. 483.
Packing goods, Machine for. C. G. Crook. No. 1,363,395; Dec. 21; v. 281; p. 614.
Packing, Heat-resisting. J. Stromeyer. No. 1,330,148; Feb. 10; v. 271; p. 182.
Packing, Hydraulic-joint. E. Schneider. No. 1,331,216; Feb. 17; v. 271; p. 450.
Packing, Labyrinth. A. Bonom. No. 1,354,235; Sept. 28; v. 278; p. 636.
Packing, Lubricating-. H. A. Lacerda. No. 1,347,388; July 20; v. 276; p. 527.
Packing, Machine for making roll-. W. J. Kent. No. 1,362,106; Dec. 14; v. 281; p. 272.
Packing material. A. A. Somerville. No. 1,349,737; Aug. 17; v. 277; p. 439.
Packing material, Method and apparatus for. W. H. Mason. No. 1,360,000; Nov. 23; v. 280; p. 698.
Packing, Metallic. G. B. Gates. No. 1,331,253; Feb. 17; v. 271; p. 457.
Packing, Metallic rod-. J. Badeker. No. 1,338,206; Apr. 27; v. 273; p. 678.
Packing of magnetic objects of oblong shape, Machine for facilitating. O. Gamper. No. 1,330,113; Feb. 10; v. 271; p. 175.
Packing or gasket construction. M. Rotter. No. 1,327,965; Jan. 13; v. 270; p. 264.
Packing, Piston-. M. P. Bloom. No. 1,346,806; July 20; v. 270; p. 413.
Packing, Piston-. L. C. Marshall. No. 1,360,967; Nov. 30; v. 280; p. 956.
Packing-ring. E. R. Norman. No. 1,345,804; July 6; v. 276; p. 94.
Packing, Piston-rod. J. W. Drew. No. 1,355,318; Oct. 12; v. 279; p. 225.
Packing, Piston-rod. W. C. Drum. No. 1,329,829; Feb. 3; v. 271; p. 91.
Packing, Plastic metallic. B. W. Goodsell. No. 1,355,830; Oct. 19; v. 279; p. 364.
Packing-ring. M. B. Brewster. No. 1,357,219; Nov. 2; v. 280; p. 4.
Packing-ring. J. F. Kytlica. No. 1,334,764; Mar. 23; v. 272; p. 647.
Packing-ring. A. J. Mummert. No. 1,356,461; Oct. 19; v. 279; p. 488.
Packing-ring and valve, Compression. C. P. Hollister. No. 1,362,312; Dec. 14; v. 281; p. 313.
Packing-ring, Piston. T. W. Brooks. No. 1,357,949; Nov. 9, v. 280; p. 204.
Packing ring, Piston-. J. J. Fuchs, Jr. No. 1,357,392; Nov. 2; v. 280; p. 37.
Packing-ring, Piston. A. B. Thompson. No. 1,360,820; Nov. 30; v. 280; p. 928.
Packing-ring, Split. A. L. Hatfield. No. 1,359,170; Nov. 16; v. 280; p. 489.
Packing-rings. W. E. Blair. No. 1,361,672; Dec. 7; v. 281; p. 139.
Packing-rings, Device for closing the slits of. L. Rasch. No. 1,332,952; Mar. 9; v. 272; p. 200.
Packing-rings, Forming spring. M. D. Avillar. No. 1,359,857; Nov. 23; v. 280; p. 670.
Packing-rings, Manufacture of metal. F. Ray. No. 1,332,572; Mar. 2; v. 272; p. 76.
Packing, Rod-. T. Smith. No. 1,338,163; Apr. 27; v. 273; p. 670.
Packing, Rotary piston. W. G. E. Rolaff. No. 1,358,176; Nov. 9; v. 280; p. 248.
Packing, Rotating-shaft. C. A. Parsons, S. S. Cook, and L. M. Douglas. No. 1,331,522; Feb. 24; v. 271; p. 527.
Packing, Self-adjusting fluid-tight. R. Vuilleumier. No. 1,363,378; Dec. 28; v. 281; p. 611.
Packing-tool. V. Doyle. No. 1,341,888; June 1; v. 275; p. 54.
Packing-washer for caps. H. P. Kraft. No. 1,354,201; Sept. 28; v. 278; p. 629.
Packings for rotating shafts, Manufacturing. C. Steenstrup. No. 1,357,739; Nov. 2; v. 280; p. 102.
Packless joint. J. M. Howe. No. 1,354,192; Sept. 28; v. 278; p. 627.

Pad: *See*—
Blotting-pad.
Cleaning-pad.
Copying-pad.
Corn-pad.
Desk-pad.
Hoof-pad.
Horse-collar sweat-pad.
Memorandum-pad.
Orthopedic pad.
Rupture-pad.
Sanitary pad.
Shoe-tongue pad.
Sketching-pad.
Sled-pad.
Stamp-pad.
Table-pad.
Umbrella-tip pad.
Vulcanizing-pad.
Writing-pad.

Pad. A. J. Bean. No. 1,337,879; Apr. 20; v. 273; p. 547.
Padding. W. H. Wehrenberg. No. 1,352,231; Sept. 7; v. 278; p. 99.
Padlock. C. G. Engle. No. 1,341,169; May 25; v. 274; p. 679.
Padlock. W. S. Hamm. No. 1,335,231; Mar. 30; v. 272; p. 795.
Padlock. N. Krohn. No. 1,348,884; Aug. 10; v. 277; p. 198.
Padlock. G. A. Lund. No. 1,349,682; Aug. 17; v. 277; p. 428.
Padlock. P. Malaczynski. No. 1,336,309; Apr. 6; v. 273; p. 114.
Padlock. G. Milone. No. 1,359,415; Nov. 16; v. 280; p. 538.
Padlock. H. G. Voight. No. 1,333,355; Mar. 9; v. 272; p. 275.
Padlock. M. Zukowski. No. 1,340,928; May 25; v. 274; p. 632.
Padlock, Automatic. R. F. Lindenmuth. No. 1,335,586; Mar. 30; v. 272; p. 861.
Padlock, Combination-. I. Kodish. No. 1,331,933; Feb. 24; v. 271; p. 605.
Padlock, Combination and key. M. Tudorov. No. 1,355,084; Oct. 5; v. 279; p. 126.
Padlock, Permutation-. A. Enos. No. 1,332,821; Mar. 2; v. 272; p. 124.
Padlock, Permutation-. B. Mazuryk. No. 1,354,773; Oct. 5; v. 279; p. 65.
Padlock, Permutation-. H. N. Tennille. No. 1,342,033; June 1; v. 275; p. 82.
Padlock, Permutation-. J. M. Walter. No. 1,337,674; Apr. 20; v. 273; p. 508.
Padlock-seal holder. T. Murphy. No. 1,346,414; July 13; v. 276; p. 276.
Pail. H. J. Scott. No. 1,349,008; Aug. 10; v. 277; p. 222.
Pail and can lifting and emptying apparatus. C. B. Strøyberg, S. Nielsen, and C. Elmer. No. 1,334,327; Mar. 23; v. 272; p. 565.
Pail and sprinkler, Combined. B. W. Groves. No. 1,353,650; Sept. 21; v. 278; p. 475.
Pail, Collapsible. D. H. Bucher. No. 1,353,627; Sept. 21; v. 278; p. 470.
Pail, Dinner-. R. B. Kelso. No. 1,346,034; July 6; v. 276; p. 140.
Pail, Dinner-. L. Windbichler. No. 1,351,823; Sept. 7; v. 278; p. 22.
Pail-lid. J. W. Benson. No. 1,335,645; Mar. 30; v. 272; p. 873.
Pail, Milk-. R. H. Damitz. No. 1,327,704; Jan. 13; v. 270; p. 215.
Pail, Milk-. W. F. May. No. 1,330,545; Feb. 10; v. 271; p. 256.
Pails, Cover-fastener for shipping. R. F. Schott. No. 1,358,253; Nov. 9; v. 280; p. 263.
Pails, Guard for metal. J. C. Wright. No. 1,347,357; July 20; v. 276; p. 521.
Paint. J. G. Gotty. No. 1,330,022; Feb. 3; v. 271; p. 126.
Paint. J. C. Nolan. No. 1,358,870; Nov. 16; v. 280; p. 433.
Paint. D. C. Smith. No. 1,348,904; Aug. 10; v. 277; p. 202.
Paint. G. C. Watson. No. 1,347,311; July 20; v. 276; p. 512.
Paint and making same. J. Wingen. No. 1,341,250; May 25; v. 274; p. 694.
Paint and making the same. F. W. Yeager. No. 1,355,102; Oct. 5; v. 279; p. 130.
Paint and varnish remover. C. Ellis. No. 1,328,080; Jan. 13; v. 270; p. 286.
Paint, Antifouling-. C. E. Wickliffe. No. 1,358,269; Nov. 9; v. 280; p. 267.
Paint composition. D. Campbell. No. 1,344,861; June 29; v. 275; p. 883.
Paint composition. A. G. Christman and C. W. Kaepp. No. 1,342,497; June 8; v. 275; p. 225.
Paint composition. K. Koivisto. No. 1,347,387; July 20; v. 276; p. 527.
Paint composition, Fluid. T. J. Duffin. No. 1,362,241; Dec. 14; v. 281; p. 299.
Paint for leather, Composition. J. Richard. No. 1,346,846; July 20; v. 276; p. 420.
Paint, Oil water-color. E. L. Snyder. No. 1,327,928; Jan. 13; v. 270; p. 257.
Paint outfit, Water-color-. J. P. Mentzer. No. 1,349,217; Aug. 10; v. 277; p. 263.
Paint-pigment, Mineral. N. A. Thompson. No. 1,347,191; July 20; v. 276; p. 488.
Paint-remover. W. Newman. No. 1,330,387; Feb. 10; v. 271; p. 226.

Digitized by Google

Alphabetical list of inventions—Continued.

Paint, Removing. J. P. Schaefer. No. 1,357,730; Nov. 2; v. 280; p. 100.
Paint-sprayer. O. R. Plummer. No. 1,331,371; Feb. 17; v. 271; p. 478.
Paint to embossed designs, Machine for applying. J. Engel. No. 1,328,081; Jan. 13; v. 270; p. 286.
Paint, Waterproof. S. Kuroki. No. 1,333,321; Mar. 9; v. 272; p. 269.
Paints and other liquids, Machine for the mechanical application of. J. E. Mayo. No. 1,336,041; Apr. 6; v. 273; p. 64.
Paints and pigments, Colorimetry. A. H. Pfund. No. 1,350,388; Aug. 24; v. 277; p. 610.
Paints, Packaging and means for making mixed. F. F. Bradley. No. 1,360,085; Nov. 23; v. 280; p. 715.
Paintbrush, Fountain-. R. Hainsey. No. 1,342,211; June 1; v. 275; p. 118.
Painted or varnished articles, Apparatus for treating. C. M. Cunliffe. No. 1,327,313; Jan. 6; v. 270; p. 80.
Painted or varnished articles, Treating. C. M. Cunliffe. No. 1,327,314; Jan. 6; v. 270; p. 81.
Painter's striping mechanism. V. Jansen. No. 1,341,803; June 1; v. 275; p. 38.
Painting apparatus. R. Hainsey. No. 1,342,212; June 1; v. 275; p. 118.
Painting, Composition of matter to be used in. M. E. B. Erlinger. No. 1,356,913; Oct. 26; v. 279; p. 624.
Painting-machine, Automatic. C. A. Peterson and C. Swanson. No. 1,330,001; Feb. 3; v. 271; p. 122.
Painting objects of art. J. A. Williams. No. 1,351,885; Sept. 7; v. 278; p. 35.
Paintings, maps, wall-papers with relievo-patterns, Manufacturing reproductions of. H. Bogaerts. No. 1,346,807; July 20; v. 276; p. 413.
Pan: *See*—

Bake-pan.	Pie-pan.
Baking-pan.	Pump overflow-pan.
Bread-pan.	Roasting-pan.
Flue-pan.	Seed-pan.
Griddle-pan.	Sterilizing-pan.

Pan cleaning and greasing machine. W. H. Publ. No. 1,363,013; Dec. 21; v. 281; p. 500.
Pan-lifter. R. J. Garison. No. 1,346,820; July 20; v. 276; p. 415.
Pan or plate lifter. F. L. Smith. No. 1,356,411; Oct. 19; v. 279; p. 479.
Panning-movement. W. Cottrell. No. 1,332,864; Mar. 2; v. 272; p. 131.
Panning-movement. W. P. Cottrell. No. 1,363,495; Dec. 28; v. 281; p. 684.
Pancake-machine. J. and M. R. Balenti. No. 1,363,706; Dec. 28; v. 281; p. 674.
Pane-fastener. J. G. Parkins. No. 1,337,565; Apr. 20; v. 273; p. 487.
Panel-board. J. Cuthbert. No. 1,360,372; Nov. 30; v. 280; p. 839.
Panel-board. J. Cuthbert. No. 1,360,373; Nov. 30; v. 280; p. 839.
Panel-boards, Cabinet structure for. J. Cuthbert. No. 1,360,374; Nov. 30; v. 280; p. 839.
Panel-box. H. H. Brown. No. 1,355,887; Oct. 19; v. 279; p. 376.
Panic-bolt. H. G. Voight. No. 1,345,041; June 29; v. 275; p. 917.
Panic-bolt mechanism. A. A. Page. No. 1,346,670; July 13; v. 276; p. 327.
Panoramic apparatus. W. E. Saxe. No. 1,357,656; Nov. 2; v. 280; p. 86.
Pantograph. G. Gillespie. No. 1,347,695; July 27; v. 276; p. 645.
Pants, Baby-. M. S. George. No. 1,329,119; Jan. 27; v. 270; p. 548.
Pants, Boys'. G. L. Kirkpatrick. No. 1,358,480; Sept. 21; v. 278; p. 440.
Pants-press. D. G. Sell. No. 1,356,094; Oct. 19; v. 279; p. 416.
Pants stretcher and presser. N. Gorgichuk and F. Solomon. No. 1,335,436; Mar. 30; v. 272; p. 834.
Paper, Alternately-cross-corrugated. D. J. O'Brien. No. 1,360,142; Nov. 23; v. 280; p. 727.
Paper and apparatus therefor, Making lines and water-marks on. O. Suursalmi. No. 1,329,100; Jan. 27; v. 270; p. 544.
Paper and ink composition therefor, Carbon. H. Ohashi. No. 1,328,188; Jan. 13; v. 270; p. 306.
Paper and making it, Wall-. J. J. Warren. No. 1,344,570; June 22; v. 275; p. 762.
Paper and manufacturing same, Gummed. E. H. Angier. No. 1,357,020; Oct. 26; v. 279; p. 645.
Paper and other material, Machine for reinforcing. E. H. Angier. No. 1,338,164; Apr. 27; v. 273; p. 670.
Paper and producing same, Waterproof. A. L. Clapp. No. 1,345,476; July 6; v. 276; p. 29.
Paper, Apparatus for discharging static electricity from. H. Cohen. No. 1,338,071; Apr. 27; v. 273; p. 653.
Paper, Apparatus for making ornamental. E. Mahler. No. 1,329,130; Jan. 27; v. 270; p. 550.
Paper, Apparatus for watermarking. H. Brown. No. 1,362,598; Dec. 21; v. 281; p. 419.
Paper bag. F. R. Skinner. No. 1,346,852; July 20; v. 276; p. 421.
Paper-bag holder. W. D. Elliot. No. 1,328,950; Jan. 27; v. 270; p. 516.
Paper-bag holder. J. C. Groff. No. 1,340,335; May 18; v. 274; p. 449.
Paper-bag holder. E. A. Whorley. No. 1,355,633; Oct. 12; v. 279; p. 285.
Paper-bag machine. C. F. Smith. No. 1,333,285; Mar. 9; v. 272; p. 262.
Paper bag or container. C. H. Howard. No. 1,333,714; Mar. 16; v. 272; p. 404.
Paper bag or container. P. T. Jackson, Jr. No. 1,333,717; Mar. 16; v. 272; p. 405.
Paper bags, Machine for making valved. M. C. Rose. No. 1,351,219; Aug. 31; v. 277; p. 834.
Paper bags or receptacles, Manufacture of. C. S. Pease. No. 1,355,353; Oct. 12; v. 279; p. 232.
Paper-board. F. B. Davidson. No. 1,353,323; Sept. 21; v. 278; p. 409.
Paper-board and corrugated-paper-board boxes, Device for testing corrugated. J. W. Webb. No. 1,328,349; Jan. 20; v. 270; p. 373.
Paper-board box, Corrugated-. C. S. Knapp. No. 1,328,524; Jan. 20; v. 270; p. 407.
Paper-board filler for boxes, Folded. S. Morrison. No. 1,354,413; Sept. 28; v. 278; p. 672.
Paper-board, Machine for making corrugated. E. M. Hawkins. No. 1,327,158; Jan. 6; v. 270; p. 52.
Paper-board, Machine for making corrugated. E. M. Hawkins. No. 1,357,453; Nov. 2; v. 280; p. 48.
Paper-board with paraffin, Method of and apparatus for coating. J. W. Low. No. 1,336,528; Apr. 13; v. 273; p. 215.
Paper bottle. A. J. Selz. No. 1,342,769; June 8; v. 275; p. 279.
Paper bottle. A. J. Selz. No. 1,342,770; June 8; v. 275; p. 279.
Paper bottles, Machine for capping multisided. L. D. Stephenson. No. 1,349,233; Aug. 10; v. 277; p. 267.
Paper bottles, Machine for capping multisided. L. D. Stephenson. No. 1,349,234; Aug. 10; v. 277; p. 267.
Paper box. G. Diamond. No. 1,332,204; Mar. 2; v. 272; p. 5.
Paper box. H. V. Edington. No. 1,347,899; July 27; v. 276; p. 686.
Paper box. H. W. Jones. No. 1,359,708; Nov. 23; v. 280; p. 640.
Paper box. E. de Lemos No. 1,337,507; Apr. 20; v. 273; p. 476.
Paper box. V. E. Lindfors. No. 1,358,006; Nov. 9; v. 280; p. 215.
Paper box. E. A. Locke, Jr. No. 1,330,946; Feb. 17; v. 271; p. 400.
Paper box. H. M. Russell. No. 1,357,519; Nov. 2; v. 280; p. 60.
Paper box. F. M. Wade. No. 1,328,935; Jan. 27; v. 270; p. 513.
Paper box, Collapsible. R. Alexander. No. 1,329,690; Feb. 3; v. 271; p. 64.
Paper-box dies and for use in type compositions, Furniture for forming. F. L. Schley. No. 1,344,657; June 29; v. 275; p. 844.
Paper box, Folding. R. R. Richardson. No. 1,363,436; Dec. 28; v. 281 p. 622.
Paper-box machine. F. M. Joslin. No. 1,356,771; Oct. 26; v. 279; p. 596.
Paper boxes, Closure for. P. J. McGrath. No. 1,362,332; Dec. 14; v. 281; p. 316.
Paper boxes, Machine for making. A. W. Harris. No. 1,347,853; July 27; v. 276; p. 677.
Paper, Carbon-. H. Ohashi. No. 1,332,141; Feb. 24; v. 271; p. 644.
Paper cardboard and like tubes, Apparatus for winding. J. S. Holmes. No. 1,335,894; Apr. 6; v. 273; p. 36.
Paper cardboard, and the like, Proceeding for the production of paste destined for manufacture of. C. O. Lottero. No. 1,341,991; June 1; v. 275; p. 74.
Paper-carriage. A. Pentecost and W. W. Fisher. No. 1,335,794; Apr. 6; v. 273; p. 17.
Paper carton, Folding. E. A. Scott. No. 1,354,344; Sept. 28; v. 278; p. 658.
Paper carton, Self-locking. J. B. Heiser. No. 1,339,334; May 4; v. 274; p. 126.
Paper cleaners, Holder for wall-. E. Jordan. No. 1,357,060; Oct. 26; v. 279; p. 653.
Paper-clip. H. Baldwin. No. 1,344,473; June 22; v. 275; p. 743.
Paper-clip. J. M. Dinwiddie. No. 1,334,233; Mar. 16; v. 272; p. 500.
Paper-clip. J. J. O'Brien. No. 1,340,180; May 18; v. 274; p. 420.
Paper-clips, Machine for making. H. Baldwin. No. 1,355,587; Oct. 12; v. 279; p. 277.
Paper colors, Binding composition for wall-. C. J. Heidorf. No. 1,358,151; Nov. 9; v. 280; p. 244.
Paper container. F. P. Wood. No. 1,333,746; Mar. 16; v. 272; p. 410.
Paper-conveying mechanism. W. G. Trautman. No. 1,362,971; Dec. 21; v. 281; p. 491.
Paper-cup blanks, Dispenser for. D. F. Curtin. No. 1,337,392; Apr. 20; v. 273; p. 454.
Paper cup, Collapsible. P. H. Carr. No. 1,351,412; Aug. 31; v. 277; p. 874.
Paper-cup-forming machine, Automatic. W. W. Bevan and C. E. Clarke. No. 1,339,315; May 4; v. 274; p. 122.

Digitized by Google

Paper-cup holder. F. Martin. No. 1,334,664; Mar. 23; v. 272; p. 628.
Paper-cup-making machines, Packing. E. L. Bracy. No. 1,338,552; Apr. 27; v. 273; p. 743.
Paper cups, Machine for paraffining. H. B. Cooley. No. 1,334,017; Mar. 16; v. 272; p. 461.
Paper cups, Manufacture of. J. V. Weckbaugh. No. 1,359,772; Nov. 23; v. 280; p. 653.
Paper-cutter. W. A. Johnson. No. 1,362,322; Dec. 14; v. 281; p. 315.
Paper-cutting machine. J. H. Downie. No. 1,347,536; July 27; v. 276; p. 613.
Paper-cutting machine, Safety device for. C. F. Pflanse. No. 1,332,856; Mar. 2; v. 272; p. 130.
Paper-cutting machines, Angle-gage attachment for. H. Stengel. No. 1,345,033; June 29; v. 275; p. 915.
Paper-disk holder. J. Lackner. No. 1,344,802; June 29; v. 275; p. 873.
Paper-drying machine. B. D. Coppage. No. 1,361,447; Dec. 7; v. 281; p. 95.
Paper-drying machines, Cylinder for. J. E. Alexander. No. 1,348,469; Aug. 3; v. 277; p. 66.
Paper-fastener. J. W. Grant. No. 1,337,598; Apr. 20; v. 278; p. 493.
Paper-fastener. J. W. Grant. (Reissue.) No. 14,974; Nov. 2; v. 280; p. 140.
Paper-fastener. F. J. Kline. No. 1,363,881; Dec. 28; v. 281; p. 709.
Paper-fastener. B. E. Treiber. No. 1,355,287; Oct. 12; v. 279; p. 219.
Paper-fastener. E. Viollet. No. 1,355,629; Oct. 12; v. 279; p. 285.
Paper-fastening clasp. G. C. Moxon. No. 1,335,850; Apr. 6; v. 273; p. 27.
Paper-feed trough. W. V. Kelley. No. 1,361,588; Dec. 7; v. 281; p. 123.
Paper-feeding machine. C. S. Hanau. No. 1,334,451; Mar. 23; v. 272; p. 588.
Paper, Felt. C. P. Cowan. No. 1,328,267; Jan. 20; v. 270; p. 358.
Paper-file. E. Fritz. No. 1,354,819; Oct. 5; v. 279; p. 75.
Paper-file. M. B. Johnson. No. 1,342,504; June 8; v. 275; p. 227.
Paper-file. C. H. Lee. No. 1,339,768; May 11; v. 274; p. 285.
Paper-filing device. D. J. Kavanagh. No. 1,330,875; Feb. 17; v. 271; p. 386.
Paper finger-bowl and other paper vessels. S. Bergman. No. 1,362,385; Dec. 14; v. 281; p. 326.
Paper finish, Wall-. C. J. Heidorf. No. 1,353,473; Sept. 21; v. 278; p. 438.
Paper-finishing machine. F. C. Ladd and F. G. Neal. No. 1,352,611; Sept. 14; v. 278; p. 209.
Paper-finishing plate. C. W. Cook. No. 1,362,677; Dec. 21; v. 281; p. 435.
Paper fixture, Toilet-. F. W. Cook. No. 1,354,170; Sept. 28; v. 278; p. 623.
Paper folding and interleaving machine. H. P. Brown and C. L. Johnston. No. 1,327,588; Jan. 6; v. 270; p. 132.
Paper-glazing machine. C. M. Hallman. No. 1,357,231; Nov. 2; v. 280; p. 7.
Paper, Gripping device for sheets of. E. P. Jennings. No. 1,337,231; Apr. 20; v. 273; p. 424.
Paper guard and cutter, Roll-. H. B. Cranshaw. No. 1,351,555; Aug. 31; v. 277; p. 902.
Paper-handling device. E. E. Strawn. No. 1,355,364; Oct. 12; v. 279; p. 234.
Paper-hanger machine. R. J. Banse. No. 1,343,106; June 8; v. 275; p. 346.
Paper-hanger's cutting-board. R. B. Stanley. No. 1,341,445; May 25; v. 274; p. 733.
Paper-hanging apparatus. A. and M. Grigas. No. 1,354,184; Sept. 28; v. 278; p. 625.
Paper-hanging device. N. H. Lamb. No. 1,344,906; June 29; v. 275; p. 892.
Paper-hanging device. P. Malacos and S. Canellos. No. 1,348,290; Aug. 3; v. 277; p. 32.
Paper-hanging implement, Wall-. P. Germaszewski. No. 1,346,647; July 13; v. 276; p. 322.
Paper-hanging machine. C. G. White. No. 1,360,163; Nov. 23; v. 280; p. 731.
Paper-holder. J. C. Wasser. No. 1,338,057; Apr. 27; v. 273; p. 650.
Paper holder and clip, Desk-basket. J. C. Soemer. No. 1,328,971; Jan. 27; v. 270; p. 520.
Paper holder and cutter, Wrapping-. D. C. Brooks. No. 1,337,588; Apr. 20; v. 273; p. 491.
Paper holder, Toilet-. W. S. Howard. No. 1,336,140; Apr. 6; v. 273; p. 83.
Paper holders and cutters, Printing attachment for. P. V. Nebergall. No. 1,330,386; Feb. 10; v. 271; p. 226.
Paper-holding clip. R. W. Flournoy, Jr. No. 1,359,243; Nov. 16; v. 280; p. 503.
Paper-knife. J. L. Soisalon-Soininen. No. 1,328,548; Jan. 20; v. 270; p. 411.
Paper, Machine for applying adhesive to trimming and hanging wall-. W. Hayes. No. 1,356,716; Oct. 26; v. 279; p. 585.
Paper, Machine for cutting and interfolding sheets of. L. A. Straubel. No. 1,326,986; Jan. 6; v. 270; p. 21.
Paper, Machine for handling rolls of. J. A. F. Nevins and F. A. Sutherland. No. 1,354,993; Oct. 5; v. 279; p. 108.
Paper, Machine for interleaving sheets of. L. A. Straubel. No. 1,326,987; Jan. 6; v. 270; p. 21.
Paper, Machine for making reinforced. K. Wandel. No. 1,362,066; Dec. 14; v. 281; p. 264.
Paper, Machine for making stretchable crinkled. E. D. Greene. No. 1,348,638; Aug. 3; v. 277; p. 99.
Paper, Machine for operating on. H. G. Widmer. No. 1,362,976; Dec. 21; v. 281; p. 492.
Paper, Machine for perforating, slitting, and rewinding. D. W. Hudson. No. 1,328,431; Jan. 20; v. 270; p. 389.
Paper-machines, Guide-roll for. R. J. Byron. No. 1,344,171; June 22; v. 275; p. 688.
Paper-machines, Segregated drive for. N. Shuttleworth. No. 1,362,359; Dec. 14; v. 281; p. 321.
Paper-making. C. E. Pope. No. 1,338,094; Apr. 27; v. 273; p. 657.
Paper-making apparatus. J. J. Warren. No. 1,344,603; June 22; v. 275; p. 769.
Paper-making, Apparatus for. F. M. Chapman. No. 1,357,313; Nov. 2; v. 280; p. 22.
Paper-making machine. A. J. Haug. No. 1,343,505; June 15; v. 275; p. 487.
Paper-making machine. F. P. Miller. No. 1,362,499; Dec. 14; v. 281; p. 348.
Paper-making machine. L. L. Morris. No. 1,359,520; Nov. 23; v. 280; p. 609.
Paper-making machine. N. J. Niks. No. 1,327,289; Jan. 6; v. 270; p. 76.
Paper-making machine. H. G. Van Ornum. No. 1,342,655; June 8; v. 275; p. 256.
Paper-making machines, Device for preheating air for use in. J. E. Alexander. No. 1,330,155; Feb. 10; v. 271; p. 183.
Paper-making machines, Drier for. J. E. Alexander. No. 1,330,366; Feb. 10; v. 271; p. 222.
Paper-making machines, Driving mechanism for. B. D. Coppage. No. 1,345,479; July 6; v. 276; p. 30.
Paper-making machines, Fourdrinier. W. A. Aitken. No. 1,353,941; Sept. 28; v. 278; p. 575.
Paper-making machines, Longitudinal drier for. J. E. Alexander. No. 1,359,141; Nov. 16; v. 280; p. 483.
Paper-making machines, Press-roll arrangement for. J. K. Darby. No. 1,327,225; Jan. 6; v. 270; p. 65.
Paper-making machines, Screen-box for. F. P. Miller. No. 1,354,324; Sept. 28; v. 278; p. 654.
Paper-making machines, Shower-pipe for. I. W. Stevens. No. 1,352,485; Sept. 14; v. 278; p. 184.
Paper-making machines, Stock-regulator for. W. P. Feeney. No. 1,331,057; Feb. 17; v. 271; p. 421.
Paper-making machines, Table-elevating device for. C. S. Hanau. No. 1,334,367; Mar. 23; v. 272; p. 572.
Paper-making stock, Process and apparatus for preparing. C. H. Allen and E. J. Trimbey. No. 1,357,760; Nov. 2; v. 280; p. 106.
Paper, Manufacturing. A. Imaoka. No. 1,333,255; Mar. 9; v. 272; p. 256.
Paper-manufacturing machine, Abrasive-. H. Behr. No. 1,357,943; Nov. 9; v. 280; p. 203.
Paper, Manufacturing parchment-. W. Dagnall. No. 1,334,843; Mar. 23; v. 272; p. 663.
Paper-match machine. J. Moscini. No. 1,327,627; Jan. 13; v. 270; p. 201.
Paper, Means for applying paste to. B. Selby. No. 1,337,729; Apr. 20; v. 273; p. 518.
Paper, Means for dispensing toilet-. P. D. Parsons. No. 1,354,511; Oct. 5; v. 279; p. 12.
Paper, Method of finishing. C. W. Cook. No. 1,362,678; Dec. 21; v. 281; p. 435.
Paper-money assorting and counting machine. J. P. Buckley and A. E. Lard. No. 1,328,263; Jan. 20; v. 270; p. 357.
Paper, Mounting or holder for reels of gummed. A. A. Grand. No. 1,332,036; Feb. 24; v. 274; p. 625.
Paper-napkin container. O. E. Teall. No. 1,362,449; Dec. 14; v. 281; p. 338.
Paper or paper-board and making same. F. B. Davidson. No. 1,347,619; July 27; v. 276; p. 630.
Paper-package and closure therefor. E. F. Hulbert. No. 1,343,724; June 15; v. 275; p. 531.
Paper-pad press. R. R. Palmer. No. 1,354,061; Sept. 28; v. 278; p. 601.
Paper pasting and trimming machine, Wall-. M. McGlaughlin. No. 1,334,387; Mar. 23; v. 272; p. 576.
Paper-printing apparatus, Electricity-dispelling device for. L. D. Shaw. No. 1,328,403; Jan. 20; v. 270; p. 384.
Paper-pulp, Making. R. H. McKee and A. A. Holmes. No. 1,360,658; Nov. 30; v. 280; p. 896.
Paper-pulp separator. J. White. No. 1,333,287; Mar. 9; v. 272; p. 262.
Paper-pulp, Treating straw for making. E. E. Werner. No. 1,347,979; July 27; v. 276; p. 701.
Paper receptacle. H. J. Lozier. No. 1,358,008; Nov. 9; v. 280; p. 216.
Paper receptacle. J. S. Miller. No. 1,329,466; Feb. 3; v. 271; p. 23.
Paper receptacle. C. W. Neski. No. 1,337,091; Apr. 13; v. 273; p. 324.
Paper receptacle. J. W. Upp. No. 1,347,309; July 20; v. 276; p. 512.

Digitized by Google

Paper receptacles, Device for making. D. J. Jennings. No. 1,346,827; July 20; v. 276; p. 417.
Paper receptacles, Making. F. T. Nicholson. No. 1,330,334; Feb. 10; v. 271; p. 216.
Paper, Reinforced. P. T. Jackson, Jr. No. 1,335,058; Mar. 30; v. 272; p. 763.
Paper-reinforcing machine. C. H. Howard. No. 1,337,702; Apr. 20; v. 273; p. 513.
Paper-reinforcing machine. C. H. Howard. No. 1,341,981; June 1; v. 275; p. 72.
Paper-reinforcing machine. P. T. Jackson, Jr. No. 1,333,718; Mar. 16; v. 272; p. 405.
Paper, Repulping old or waste. J. M. Burby. No. 1,327,590; Jan. 6; v. 270; p. 133.
Paper-roll holder. J. A. Kimberly, Jr. No. 1,331,931; Feb. 24; v. 271; p. 605.
Paper-roll holder and cutter. W. C. Ranney. No. 1,330,005; Feb. 3; v. 271; p. 123.
Paper-roll holders, Cutter-mounting for. T. M. House. No. 1,333,022; Mar. 9; v. 272; p. 213.
Paper-roll support. E. L. Reed. No. 1,341,862; June 1; v. 275; p. 49.
Paper-rolling device. E. E. Deputy. No. 1,357,385; Nov. 2; v. 280; p. 35.
Paper-serving apparatus, Wrapping-. R. L. Welch. No. 1,358,904; Nov. 16; v. 280; p. 440.
Paper sheets, Device for feeding and adjusting. G. Spiess. No. 1,329,936; Feb. 3; v. 271; p. 110.
Paper-sorting machines, Sheet-feeding apparatus for. G. Spiess. No. 1,348,246; Aug. 3; v. 277; p. 23.
Paper-stock. F. J. Baumgardner. No. 1,334,518; Mar. 23; v. 272; p. 600.
Paper-stock, Machine for saturating. E. J. Cady. No. 1,345,747; July 6; v. 276; p. 82.
Paper-stock, Reclaiming. C. Baskerville and C. M. Joyce. No. 1,351,092; Aug. 31; v. 277; p. 809.
Paper-stock reducing and conveying machine. T. Tucker. No. 1,359,638; Nov. 23; v. 280; p. 626.
Paper-stock, Refining-engine for. D. L. Bellinger. No. 1,358,354; Nov. 9; v. 280; p. 284.
Paper towels and toilet-papers, Process of and machine for winding rolls of. W. S. Crandell. No. 1,353,634; Sept. 21; v. 278; p. 471.
Paper-tube machines, Electric cutter for. O. H. Roessling. No. 1,360,029; Nov. 23; v. 280; p. 705.
Paper tubes to winders, Tool for attaching. C. L. Lytton. No. 1,343,632; June 15; v. 275; p. 512.
Paper-vending machines. D. R. Germain. No. 1,334,299; Mar. 23; v. 272; p. 559.
Paper, vulcanized fiber, &c., Manufacture of parchmentized. R. H. Clayton, J. Huebner, and H. E. Williams. No. 1,333,465; Mar. 9; v. 272; p. 297.
Paper-weight. J. B. Sumner. No. 1,347,599; July 27; v. 276; p. 626.
Paper wreath-frame. A. Signman and D. Simon. No. 1,354,627; Oct. 5; v. 279; p. 37.
Papering device, Wall-. S. G. Canellos. No. 1,354,430; Sept. 28; v. 278; p. 675.
Papering machine, Wall-. L. Jensen. No. 1,331,436; Feb. 17; v. 271; p. 491.
Papering machine, Wall-. A. Waniellsta and M. Ostrowiecki. No. 1,327,127; Jan. 6; v. 270; p. 46.
Parachute. H. Blackburn. No. 1,328,413; Jan. 20; v. 270; p. 386.
Parachute. E. R. Calthrop. No. 1,345,582; July 6; v. 276; p. 50.
Parachute. E. R. Calthrop. No. 1,353,378; Sept. 21; v. 278; p. 420.
Parachute. J. Chytracek. No. 1,345,533; July 6; v. 276; p. 41.
Parachute. C. H. Duffy. No. 1,328,425; Jan. 20; v. 270; p. 387.
Parachute. J. A. El Vean. No. 1,341,794; June 1; v. 275; p. 36.
Parachute. E. T. Greenfield. No. 1,331,705; Feb. 24; v. 271; p. 562.
Parachute. A. Kaminski. No. 1,344,044; June 22; v. 275; p. 659.
Parachute. Z. Koza. No. 1,349,513; Aug. 10; v. 277; p. 322.
Parachute. W. J. Ruff. No. 1,353,130; Sept. 14; v. 278; p. 311.
Parachute. W. J. Ruff. No. 1,353,131; Sept. 14; v. 278; p. 311.
Parachute. F. Smith. No. 1,340,423; May 18; v. 274; p. 466.
Parachute. E. E. Smith. No. 1,354,225; Sept. 28; v. 278; p. 634.
Parachute. J. W. Taylor. No. 1,340,259; May 18; v. 274; p. 434.
Parachute. C. L. Welsh. No. 1,327,932; Jan. 13; v. 270; p. 258.
Parachute comprising pneumatic means. A. Ramauge. No. 1,328,848; Jan. 27; v. 270; p. 496.
Parachute-flare. H. E. S. Holt. No. 1,346,454; July 13; v. 276; p. 284.
Paraffin-coating machine. F. P. Vavra. No. 1,345,720; July 6; v. 276; p. 77.
Paraffin, Machine for coating blanks with. F. P. Vavra. No. 1,345,719; July 6; v. 276; p. 77.
Paraffining-machine. F. P. Vavra. No. 1,327,299; Jan. 6; v. 270; p. 78.
Parallel, Adjustable. S. J. Lask. No. 1,335,247; Mar. 30; v. 272; p. 798.
Paralleling device. L. J. Weinstein. No. 1,345,815; July 6; v. 276; p. 96.
Parasol. J. Levin. No. 1,342,451; June 8; v. 275; p. 217.
Parasols, umbrellas, Detachable handle construction for. W. H. Beehler. No. 1,342,320; June 1; v. 275; p. 138.
Parcel-binder. A. L. Stansell. No. 1,336,168; Apr. 6; v. 273; p. 88.
Parcel-carrier. E. G. Rust. No. 1,357,005; Oct. 26; v. 279; p. 642.
Paring-knife. W. F. Safford. No. 1,330,820; Feb. 17; v. 271; p. 375.
Paring-knife. J. E. Smith. No. 1,331,880; Feb. 24; v. 271; p. 596.
Paring-knife gage. A. B. Lee. No. 1,346,321; July 13; v. 276; p. 258.
Partition and door roller. T. A. Hill. No. 1,328,043; Jan. 13; v. 270; p. 279.
Partition, Folding. A. J. Higson. No. 1,360,525; Nov. 30; v. 280; p. 870.
Partitions, ceilings, &c., Structure for. M. H. Jester. No. 1,347,009; July 27; v. 276; p. 707.
Passageway and for making and laying a pipe in same, Apparatus for making an underground. R. Powell. No. 1,340,836; May 18; v. 274; p. 543.
Paste, Alimentary. C. S. Miner. No. 1,349,524; Aug. 10; v. 277; p. 324.
Paste, Chinese-wood-oil adhesive. J. S. Gravely. No. 1,331,192; Feb. 17; v. 271; p. 446.
Paste-dispensing device. S. L. Harwood. No. 1,353,747; Sept. 21; v. 278; p. 494.
Paste to paper, Means for applying. B. Selby. No. 1,358,026; Nov. 9; v. 280; p. 219.
Pasting and assembling machine. E. E. Winkley. No. 1,356,845; Oct. 26; v. 279; p. 611.
Pasteurizer. O. Eick. No. 1,356,055; Oct. 19; v. 279; p. 408.
Pasteurizer. J. C. Miller. No. 1,340,177; May 18; v. 274; p. 420.
Pastry-baking machine. E. J. Shaut. No. 1,333,781; Mar. 16; v. 272; p. 416.
Pastry forms, Apparatus for making. E. A. Hamwi. No. 1,342,045; June 1; v. 275; p. 85.
Pastry-making machine. F. A. Bruckman. No. 1,358,684; Nov. 9; v. 280; p. 351.
Pastry, Method and means for forming and baking cup-. L. C. Sharp. No. 1,341,081; May 25; v. 274; p. 662.
Patch, Blow-out. W. V. Hayes. No. 1,352,957; Sept. 14; v. 278; p. 278.
Patch, Connected blow-out. B. J. Levin. No. 1,357,784; Nov. 2; v. 280; p. 111.
Patch-holder. C. A. Erdley. No. 1,352,799; Sept. 14; v. 278; p. 247.
Pattern: *See*—
Piston-ring pattern.
Pattern and method of cutting skins, &c. A. W. Rinfret. No. 1,331,527; Feb. 24; v. 271; p. 528.
Pattern-controlled mechanism. C. Johanson. No. 1,353,756; Sept. 21; v. 278; p. 496.
Pattern-grading machines. Adjustable blank-holder for. A. F. Preston. No. 1,328,689; Jan. 20; v. 270; p. 437.
Pattern, Manufacture of articles having a systematic resemblance to a. E. J. Prindle. No. 1,362,184; Dec. 14; v. 281; p. 287.
Pattern, Manufacture of articles having a systematic resemblance to a. L. B. Whipple. No. 1,362,183; Dec. 14; v. 281; p. 287.
Patterns, Multiple reproduction of. G. Piccioni. No. 1,340,460; May 18; v. 274; p. 473.
Pavement. E. Henry. No. 1,347,855; July 27; v. 276; p. 677.
Pavement. E. J. Morrison. No. 1,335,180; Mar. 30; v. 272; p. 786.
Pavement. A. T. Rhodes. No. 1,348,959; Aug. 10; v. 277; p. 212
Pavement and foundation for pavements, Asphaltic. H. P. Willis. No. 1,328,310; Jan. 20; v. 270; p. 366.
Pavement, Block. H. G. Jennison. No. 1,340,896; May 25; v. 274; p. 626.
Pavements, Making monolithic. A. J. Parrish. No. 1,347,654; July 27; v. 276; p. 636.
Paving-block. A. L. Baughman. No. 1,348,774; Aug. 3; v. 277; p. 124.
Paving-block. R. H. Irons. No. 1,344,895; June 29; v. 275; p. 890.
Paving-block. M. P. Kealy. No. 1,334,101; Mar. 16; v. 272; p. 476.
Paving, Composition for. S. R. Murray. No. 1,327,726; Jan. 13; v. 270; p. 220.
Paving-joint, Elastic or expansible. W. J. Moeller. (Reissue.) No. 14,871; June 1; v. 275; p. 156.
Paving materials, Apparatus for preparing. L. B. West. No. 1,351,361; Aug. 31; v. 277; p. 864.
Paving plant, Portable. F. B. Totman. No. 1,341,948; June 1; v. 275; p. 66.
Paving, Wood-block. G. W. Warmoth. No. 1,351,546; Aug. 31; v. 277; p. 900.
Pawl-and-ratchet means. J. W. Knopp. No. 1,329,000; Jan. 27; v. 270; p. 525.
Pawl-and-ratchet mechanism. C. W. Howe. No. 1,352,603; Sept. 14; v. 278; p. 207.

Digitized by Google

Pawl and ratchet mechanism. A. E. Rhoades. No. 1,347,661; July 27; v. 276; p. 638.
Pawl-spring. P. Lux. No. 1,338,641; Apr. 27; v. 273; p. 759.
Pea-huller. F. Hamachek. No. 1,340,607; May 18; v. 274; p. 501.
Pea-huller. S. A. Tow. No. 1,359,450; Nov. 16; v. 280; p. 545.
Pea-hullers, Supporting-bracket for. F. Hamachek. No. 1,357,047; Oct. 26; v. 279; p. 650.
Pea-vine hulling machine, Green-. F. Hamachek. No 1,361,051; Dec. 7; v. 281; p. 14.
Peaches, Machine for halving or splitting. S. J. Dunkley. No. 1,329,755; Feb. 3; v. 271; p. 76.
Peanut-blanching machine. F. Townsend. No. 1,352,702; Sept. 14; v 278; p. 227
Peanut-huller. L. L. Duke. No. 1,335,669; Mar. 30; v. 272; p. 878.
Peanut picker or separator. J. R. Ruos. No. 1,360,249; Nov. 23; v. 280; p. 748.
Peanut-picking machine. T. I. Phelps. No. 1,328,295; Jan. 20; v. 270; p. 363.
Peanut-roaster. E. C. Booth. No. 1,350,541; Aug. 24; v. 277; p. 641.
Peanut-roaster. S. C. Peckham. No. 1,339,365; May 4; v. 274; p. 132.
Pearl, Producing imitation of mother-of-. E. Mauvillin and V. Guillet. No. 1,351,529; Aug. 31; v. 277; p. 897.
Pearls, Causing oysters to produce. K. Mikimoto. No. 1,328,008; Jan. 13; v. 270; p. 272.
Pearls, Forming artificial. T. Mise. No. 1,353,932; Sept. 28; v. 278; p. 574.
Peas from wheat, Machine for separating wild. C. W. Carter. No. 1,328,819; Jan. 27; v. 270; p. 490.
Peat-drier. W. S. Jackson. No. 1,334,495; Mar. 23; v. 272; p. 596.
Peat for fuel and apparatus therefor, Treatment of. K. E. Edgeworth. No. 1,347,940; July 27; v. 276; p. 693.
Peat for making useful products, Treatment of. W. B. Bottomley. No. 1,355,732; Oct. 12; v. 279; p. 305.
Peat, Method and apparatus for treating. H. H. Hindshaw. No. 1,334,492; Mar. 23; v. 272; p. 596.
Peat, Treating. W. W. Blair. No. 1,349,713; Aug. 17; v. 277; p. 434.
Peat, Treating. W. W. Blair. No. 1,349,714; Aug. 17; v. 277; p. 435.
Pedal, Extension-. H. C. Reich. No. 1,328,400; Jan. 20; v. 270; p. 383.
Pedal extension. F. L. Williams. No. 1,346,361; July 13; v. 276; p. 266.
Pedal-holder. A. J. Lear. No. 1,350,228; Aug. 17; v. 277; p. 533.
Pedal-operated mechanism. D. Brandenstein and J. Fischer. No. 1,327,137; Jan. 6; v. 270; p. 48.
Pedal-operating mechanism. D. Antonelli. No. 1,337,685; Apr. 20; v. 273; p. 510.
Pedal-switch. S. F. Briggs and E. N. Jacobi. No. 1,336,066; Apr. 6; v. 273; p. 68.
Pedestal support, Oscillating-. P. D. McFarlane. No. 1,344,806; June 29; v. 275; p. 873.
Pedigree-record and making the same. R. R. Graves. No. 1,364,049; Dec. 28; v. 281; p. 741.
Peel. J. F. Kievell. No. 1,327,328; Jan. 6; v. 270; p. 83.
Peeler, Vegetable-. J. H. Hamlin. No. 1,347,091; July 20; v. 276; p. 469.
Peeler, Vegetable-. E. J. Stanson. No. 1,337,414; Apr. 20; v. 273; p. 459.
Peeling attachment, Fruit and vegetable. A. Olevin. No. 1,347,288; July 20; v. 276; p. 508.
Peeling-knife. E. K. Lien. No. 1,357,785; Nov. 2; v. 280; p. 111.
Peeling machine, Fruit-. M. E. Dunkley. No. 1,341,738; June 1; v. 275; p. 25.
Peeling-machines, Water-spray section of. S. J. Dunkley. No. 1,362,930; Dec. 21; v. 281; p. 483.
Peeling tomatoes, Machine for. C. Kirino. No. 1,347,385; July 20; v. 276; p. 527.
Pegging-machine. J. Larsen. No. 1,346,715; July 13; v. 276; p. 336.
Pegs and other round wooden articles, Machine for making clothes-. M. Jones. No. 1,355,340; Oct. 12; v. 279; p. 230.
Pen: *See*—
Fountain-pen.
Pen. P. Swaine. No. 1,355,013; Oct. 5; v. 279; p. 112.
Pen. H. B. Wardin. No. 1,345,044; June 29; v. 275; p. 918.
Pen and feed pusher. B. B. Bradford. No. 1,352,498; Sept. 14; v. 278; p. 186.
Pen and pencil attachment. L. S. Zebrock, Jr. No. 1,343,245; June 15; v. 275; p. 437.
Pen and pencil clip. G. F. Hahn. No. 1,347,090; July 20; v. 276; p. 469.
Pen and pencil, Combined. J. J. Hughes. No. 1,334,860; Mar. 23; v. 272; p. 666.
Pen and pencil holder. C. B. Bird. No. 1,354,718; Oct. 5; v. 279; p. 55.
Pen and pencil holders, Pocket-clip for. C. Kristen. No. 1,334,617; Mar. 23; v. 272; p. 619.
Pen attachment. C. F. Clarke. No. 1,337,196; Apr. 20; v. 273; p. 417.
Pen attachment, Fountain-. C. Schwartz. No. 1,346,982; July 20; v. 276; p. 448.
Pen attachment, Ruling-. R. L. Ingebrigtsen. No. 1,360,751; Nov. 30; v. 280; p. 914.
Pen caps, Clip for fountain-. D. J. La France and W. P. De Witt. No. 1,350,412; Aug. 24; v. 277; p. 615.
Pen-clip. R. Moore. No. 1,338,765; Mar. 16; v. 272; p. 413.
Pen clip, Fountain-. C. W. Boman. No. 1,358,511; Nov. 9; v. 280; p. 316.
Pen, Draftsman's fountain ruling-. E. R. Moreland. No. 1,327,922; Jan. 13; v. 270; p. 256.
Pen-filling device, Fountain-. A. T. Cross. No. 1,348,211; Aug. 3; v. 277; p. 15.
Pen, Fountain-. M. Borbeck. No. 1,342,736; June 8; v. 275; p. 272.
Pen, Fountain-. E. J. Casper. No. 1,358,285; Nov. 9; v. 280; p. 260.
Pen, Fountain-. H. W. Dickers. No. 1,356,195; Oct. 19; v. 279; p. 437.
Pen, Fountain-. H. D. and P. X. Grossman. No. 1,362,291; Dec. 14; v. 281; p. 308.
Pen, Fountain-. H. W. Haslup. No. 1,341,850; June 1; v. 275; p. 47.
Pen, Fountain-. J. E. Hayes. No. 1,335,580; Mar. 30; v. 272; p. 860.
Pen, Fountain-. C. E. Hood. No. 1,338,629; Apr. 27; v. 273; p. 757.
Pen, Fountain-. H. J. Jorgensen. No. 1,335,341; Mar. 30; v. 272; p. 816.
Pen, Fountain-. C. R. Keeran. No. 1,351,574; Aug. 31; v. 277; p. 906.
Pen, Fountain-. C. R. Keeran. No. 1,351,575; Aug. 31; v. 277; p. 906.
Pen, Fountain-. C. R. Keeran. No. 1,360,647; Nov. 30; v. 280; p. 894.
Pen, Fountain-. D. J. La France and W. P. De Witt. No. 1,340,277; May 18; v. 274; p. 438.
Pen, Fountain-. C. A. Luck. No. 1,336,572; Apr. 13; v. 273; p. 223.
Pen, Fountain-. G. H. Macdonough. No. 1,357,068; Oct. 26; v. 279; p. 654.
Pen, Fountain-. J. H. Marsh. No. 1,363,339; Dec. 28; v. 281; p. 604.
Pen, Fountain-. B. S. Paschall. No. 1,327,729; Jan. 13; v. 270; p. 220.
Pen, Fountain-. A. C. Rader. No. 1,343,521; June 15; v. 275; p. 490.
Pen, Fountain-. P. P. Sanford. No. 1,351,873; Sept. 7; v. 278; p. 32.
Pen, Fountain-. J. C. Wahl. No. 1,351,591; Aug. 31; v. 277; p. 909.
Pen, Fountain-. P. E. Wirt. No. 1,347,800; July 27; v. 276; p. 666.
Pen, Fountain ruling-. A. Gran. No. 1,355,961; Oct. 19; v. 279; p. 390.
Pen, Hinged ruling-. F. W. Kluever. No. 1,344,045; June 22; v. 275; p. 659.
Pen-holder. H. E. Halseth. No. 1,348,410; Aug. 3; v. 277; p. 55.
Pen, Lettering-. E. H. Bendel. No. 1,359,865; Nov. 23; v. 280; p. 672.
Pen-locking clip, Fountain-. D. F. Johnson. No. 1,344,897; June 29; v. 275; p. 890.
Pen or pencil attachment. A. J. Sanders. No. 1,345,962; July 6; v. 276; p. 126.
Pen or pencil clip. G. Woodhouse. No. 1,346,393; July 13; v. 276; p. 271.
Pen, Ruling-. H. R. Fuller. No. 1,348,637; Aug. 3; v. 277; p. 98.
Pen, Ruling-. M. P. Hermann. No. 1,340,895; May 25; v. 274; p. 626.
Pen, Ruling-. C. F. Pease. No. 1,333,129; Mar. 9; v. 272; p. 233.
Pen, Self-filling fountain-. T. A. Dickinson. No. 1,346,184; July 13; v. 276; p. 231.
Pen, Self-filling fountain-. C. Dunn. No. 1,359,880; Nov. 23; v. 280; p. 675.
Pen, Sign-writer's. F. X. Kempel. No. 1,358,215; Nov. 9; v. 280; p. 256.
Pen, Stylographic. J. Abegg. No. 1,339,011; May 4; v. 274; p. 66.
Pen, Stylographic fountain-. J. T. Andersen. No. 1,336,119; Apr. 6; v. 273; p. 79.
Pen, Stylographic fountain-. C. Weitz. No. 1,340,926; May 25; v. 274; p. 631.
Pens, Feed-bar for fountain-. J. L. Schnell. No. 1,357,083; Oct. 26; v. 279; p. 657.
Pens, Feeder for fountain-. A. C. Rader. No. 1,359,918; Nov. 23; v. 280; p. 682.
Pens, Lever-filler for fountain-. D. C. Van Valer. No. 1,328,215; Jan. 13; v. 270; p. 312.
Pens, Manufacture of. L. Marcq. No. 1,356,543; Oct. 26; v. 279; p. 551.
Pens or pencils, Illuminating attachment for. C. M. East. No. 1,341,267; May 25; v. 274; p. 697.
Pens, Retarded device for fountain-. W. T. Fitzpatrick. No. 1,347,901; July 27; v. 276; p. 686.
Pencil. H. L. Blackman. No. 1,350,983; Aug. 24; v. 277; p. 725.

Digitized by Google

Pencil. C. W. Boman. No. 1,357,835; Nov. 2; v. 280; p. 121.
Pencil. J. Bricken. No. 1,351,552; Aug. 31; v. 277; p. 901.
Pencil. H. L. Fischer. No. 1,340,331. May 18; v. 274; p. 448.
Pencil. H. L. Fischer and F. J. Kristofek. No. 1,349,950; Aug. 17; v. 277; p. 479.
Pencil. J. C. Hamilton. No. 1,327,088; Jan. 6; v. 270; p. 30.
Pencil. H. Hess. No. 1,827,236; Jan. 6; v. 270; p. 67.
Pencil. H. Hess. No. 1,358,548; Nov. 9; v. 280; p. 323.
Pencil. W. K. Holmes. No. 1,346,711; July 13; v. 276; p. 335.
Pencil. F. J. Kristofek. No. 1,351,916; Sept. 7; v. 278; p. 41.
Pencil. F. J. Kristofek. No. 1,360,230; Nov. 23; v. 280; p. 743.
Pencil. F. J. Kristofek and H. L. Fischer. No. 1,353,352; Sept. 21; v. 278; p. 415.
Pencil. J. T. Lynch. No. 1,329,420; Feb. 3; v. 271; p. 14.
Pencil. R. C. Moore. No. 1,359,725; Nov. 23; v. 280; p. 644.
Pencil. W. M. Saunders. No. 1,328,300; Jan. 20; v. 270; p. 364.
Pencil. F. J. Terrell. No. 1,361,554; Dec. 7; v. 281; p. 117.
Pencil and case. G. A. Risk. No. 1,337,412; Apr. 20; v. 273; p. 458.
Pencil and igniter. L. V. Aronson. No. 1,342,838; June 8; v. 275; p. 294.
Pencil attachment. H. W. Borglin. No. 1,328,076; Jan. 13; v. 270; p. 285.
Pencil attachment. H. Moore. No. 1,358,568; Nov. 9; v. 280; p. 327.
Pencil-clip. A. Hasselgren and D. B. Newman. No. 1,356,143; Oct. 19; v. 279; p. 426.
Pencil-clip. W. M. Saunders. No. 1,358,338; Nov. 9; v. 280; p. 281.
Pencil-clip. J. C. Wahl, H. S. Hasselquist, and A. F. Poole. No. 1,334,332; Mar. 23; v. 272; p. 566.
Pencil-clip and spectacle-holder, Combined. W. B. White. No. 1,346,777; July 13; v. 276; p. 348.
Pencil, Electric retouching-. J. R. and E. W. Kugler. No. 1,352,976; Sept. 14; v. 278; p. 282.
Pencil-eraser attachment. W. J. Campbell. No. 1,353,215; Sept. 21; v. 278; p. 388.
Pencil-holder. S. P. Kay. No. 1,338,933; May 4; v. 274; p. 52.
Pencil-holder. E. S. Kintsel. No. 1,327,762; Jan. 13; v. 270; p. 226.
Pencil-holder. A. Klingele. No. 1,341,509; May 25; v. 274; p. 745.
Pencil-holder. R. E. Perkins. No. 1,362,263; Dec. 14; v. 281; p. 303.
Pencil holder and sharpener, Combined. P. D. Johnston. No. 1,361,732; Dec. 7; v. 281; p. 151.
Pencil, Lead-. M. O. Borbeck. No. 1,342,416; June 8; v. 275; p. 210.
Pencil, Lead-. J. H. Stull. No. 1,361,115; Dec. 7; v. 281; p. 27.
Pencil, Magazine-. H. P. Fairchild. No. 1,345,436; July 6; v. 276; p. 21.
Pencil, Mechanical. R. G. C. Boa. No. 1,344,434; June 22; v. 275; p. 735.
Pencil, Mechanical. J. C. Wahl. No. 1,349,025; Aug. 10; v. 277; p. 225.
Pencil, pen, and cigar holder. C. Kristen. No. 1,334,616; Mar. 23; v. 272; p. 619.
Pencil-point protector, adjustable eraser, and sharpener. E. J. Torey. No. 1,333,644; Mar. 16; v. 272; p. 391.
Pencil-pointer. W. E. Abbott. No. 1,332,091; Feb. 24; v. 271; p. 635.
Pencil-protector. A. R. Felstrup. No. 1,362,406; Dec. 14; v. 281; p. 330.
Pencil, Lead-. G. B. Bergen. No. 1,359,568; Nov. 23; v. 280; p. 613.
Pencil, Mechanical. M. M. Kaufmann and J. P. Lynn. No. 1,353,345; Sept. 21; v. 278; p. 413.
Pencil, Propelling-. R. L. Hawkins. No. 1,357,980; Nov. 9; v. 280; p. 210.
Pencils, Eraser attachment for. G. C. Hunter. No. 1,363,376; Dec. 28; v. 281; p. 708.
Pencils, Eraser attachment for. W. W. Moore. No. 1,352,677; Sept. 14; v. 278; p. 222.
Pencils, Eraser-holding clip for. P. Lazarides. No. 1,339,707; May 11; v. 274; p. 274.
Pencils, Pen attachment for. H. D. Flegel. No. 1,345,155; June 29; v. 275; p. 939.
Penholder. C. E. Baldwin. No. 1,344,329; June 22; v. 275; p. 714.
Penholder. L. Gunderson. No. 1,334,152; Mar. 16; v. 272; p. 486.
Penholder attachment. H. W. Earp-Thomas. No. 1,360,380; Nov. 30; v. 280; p. 841.
Penholder-clip. J. Kritikson. No. 1,339,359; May 4; v. 274; p. 131.
Penholder-support. R. Kelsey. No. 1,336,964; Apr. 13; v. 273; p. 299.
Penholder, Writing-position. J. W. Griffith. No. 1,341,847; June 1; v. 275; p. 46.
Penholders and pencils to assist in the practice of penmanship, Attachment for. G. T. Wride. No. 1,342,576; June 8; v. 275; p. 242.
Penholders, Support for. D. M. Thomson. No. 1,359,548; Nov. 23; v. 280; p. 609.
Penmanship, Device for teaching. J. D. W. Williams. No. 1,343,244; June 15; v. 275; p. 437.
Penwiper. V. G. Jasper. No. 1,347,164; July 20; v. 276; p. 483.
Perambulator. A. B. Leith. No. 1,347,169; July 20; v. 276; p. 484.
Perch. O. Frey. No. 1,331,908; Feb. 24; v. 271; p. 601.
Perch, Antivermin-. M. F. Beebe. No. 1,347,930; July 27; v. 276; p. 692.
Perch, Spring. O. E. Zahn. No. 1,338,895; May 4; v. 274; p. 45.
Percolating and concentrating apparatus. J. U. Lloyd. No. 1,332,908; Mar. 9; v. 272; p. 191.
Percolator. H. C. Biette. No. 1,362,522; Dec. 14; v. 281; p. 853.
Percolator. I. M. Rose. No. 1,337,964; Apr. 20; v. 273; p. 563.
Percolator, Electric. F. Kuhn and J. A. Hand. No. 1,35»,390; Nov. 16; v. 280; p. 532.
Percussion-drill. A. L. Chopin. No. 1,330,170; Feb. 10; v. 271; p. 186.
Percussion-drill. A. L. Chopin. No. 1,330,171; Feb. 10; v. 271; p. 186.
Perforating device. C. F. McBee. No. 1,338,457; Apr. 27; v. 273; p. 725.
Perforating-machine. F. M. Laserson. No. 1,346,217; July 13; v. 276; p. 236.
Perforating-machine. J. A. Mackey. No. 1,329,788; Feb. 3; v. 271; p. 82.
Perforating-machine gage. F. S. Glines. No. 1,341,312; May 25; v. 274; p. 706.
Perforating or marking machine, Cloth. N. Komow and G. M. Hoskwith. No. 1,335,244; Mar. 30; v. 272; p. 797.
Perforating sheet material for the reception of eyelets. P. R. Glass. No. 1.356,522; Oct. 26; v. 279; p. 547.
Perfumier. L. L. Martin. No. 1,353,258; Sept. 21; v. 278; p. 396.
Periscope. C. H. Bedell. No. 1,361,358; Dec. 7; v. 281; p. 76.
Periscope. H. H. Styll. No. 1,341,683; June 1; v. 275; p. 14.
Periscope and gun, Combined. L. Holecek. No. 1,351,649; Aug. 31; v. 277; p. 920.
Periscope, Target-bearing and range-finding. H. C. Ford. No. 1,332,209; Mar. 2; v. 272; p. 6.
Permanganate, Electrolytic production of. R. E. Wilson and W. G. Horsch. No. 1,360,700; Nov. 30; v. 280; p. 904.
Permanganate, Production of. R. E. Wilson. No. 1,330,032; Feb. 3; v. 271; p. 128.
Permeameter. J. Slepian. No. 1,360,326; Nov. 30; v. 280; p. 831.
Permutation hasp-lock. E. W. Flagg. No. 1,335,959; Apr. 6; v. 273; p. 48.
Permutation-lock. J. Bulanda. No. 1,327,140; Jan. 6; v. 270; p. 49.
Permutation-lock. D. J. Davis. No. 1,329,041; Jan. 27; v. 270; p. 533.
Permutation-lock. A. B. Fidrocki. No. 1,339,446; May 11; v. 274; p. 223.
Permutation-lock. J. P. Geraghty. ,No. 1,343,048; June 8; v. 275; p. 335.
Permutation-lock. A. G. Hockett. No. 1,335,581; Mar. 30; v. 272; p. 860.
Permutation-lock. M. Kosich. No. 1,343,145; June 8; v. 275; p. 354.
Permutation-lock. C. L. Lundstedt. No. 1,357,716; Nov. 2; v. 280; p. 98.
Permutation-lock. J. Morris. No. 1,357,581; Nov. 2; v. 280; p. 71.
Permutation-lock. L. G. Sabbag. No. 1,356,314; Oct. 19; v. 279; p. 461.
Permutation-lock. A. L. Veara. No. 1,340,583; May 18; v. 274; p. 496.
Permutation-lock, Electric. G. E. Dolan and S. Miller. No. 1,328,729; Jan. 20; v. 270; p. 444.
Permutation-padlock. J. H. Fryer. No. 1,363,582; Dec. 28; v. 281; p. 651.
Permutation-switch. S. R. Seese. No. 1,338,099; Apr. 27; v. 273; p. 658.
Peroxid, Forming manganese. H. C. Chapin. No. 1,343,390; June 15; v. 275; p. 465.
Perpendicularity-indicator. H. Jantsch and W. E. Guldager. No. 1,345,597; July 6; v. 276; p. 53.
Pessary, Medicated. L. Martocci-Pisculli. No. 1,348,728; Aug. 3; v. 277; p. 115.
Petcock-operating device. M. Drane and H. W. Stone. No. 1,355,544; Oct. 12; v. 279; p. 269.
Petrol or gasolene, Making. C. R. Burke. No. 1,344,258; June 22; v. 275; p. 700.
Petroleum and like oils, Treatment of. E. W. Wynne. No. 1,351,458; Aug. 31; v. 277; p. 882.
Petroleum and other hydrocarbons, Fractional distillation of crude. A. F. G. C. P. J. von Groeling. No. 1,327,184; Jan. 6; v. 270; p. 57.

Petroleum, Apparatus for cracking. H. W. Jones. No. 1,347,543; July 27; v. 276; p. 614.
Petroleum, Apparatus for cracking. H. W. Jones. No. 1,356,208; Oct. 19; v. 279; p. 440.
Petroleum, Cracking. L. P. Lowe and F. C. Ruff. No. 1,351,859; Sept. 7; v. 278; p. 29.
Petroleum distillates, Expressing wax from. W. C. and F. E. Wells. No. 1,350,482; Aug. 24; v. 277; p. 630.
Petroleum, Distilling. P. M. Biddison and H. T. Boyd. No. 1,345,740; July 6; v. 276; p. 80.
Petroleum products, Means for and process of filtering. L. M. Bowman. No. 1,347,932; July 27; v. 276; p. 692.
Petroleum reduction. F. A. Kormann. No. 1,332,849; Mar. 2; v. 272; p. 129.
Petticoat. B. Boasberg. No. 1,360,362; Nov. 30; v. 280; p. 837.
Petticoat, Pantalet-. M. G. McLoughlin. No. 1,356,105; Oct. 19; v. 279; p. 419.
Phase-converter. R. E. Hellmund. No. 1,360,293; Nov. 30; v. 280; p. 825.
Phase-converter system. R. E. Hellmund. No. 1,335,108; Mar. 30; v. 272; p. 773.
Phase-converter system. R. E. Hellmund. No. 1,335,109; Mar. 30; v. 272; p. 773.
Phase-distribution system. T. F. Baily and F. T. Cope. No. 1,353,983; Sept. 28; v. 278; p. 584.
Phenol and other aromatic hydrocarbons from water or other liquids, Removing. R. M. Leggett. No. 1,341,913; June 1; v. 275; p. 59.
Phenolic condensation product and manufacturing. L. V. Redman, A. J. Weith, and F. P. Brock. No. 1,339,134; May 4; v. 274; p. 91.
Phenolic condensation products, Manufacture of. L. V. Redman, A. J. Weith and F. P. Brock. No. 1,358,394; Nov. 9; v. 280; p. 293.
Phenolic condensation product, Producing a. L. V. Redman. A. J. Weith, and F. P. Brock. No. 1,345,694; July 6; v. 276; p. 72.
Phenolic condensation products from discoloration after preserving, Preserving in fusible. L. V. Redman, A. J. Weith, and F. P. Brock. No. 1,345,695; July 6; v. 276; p. 72.
Phenolic condensation products, Manufacture of. C. A. Nash. No. 1,343,575; June 15; v. 275; p. 501.
Phenolphthalein with carbonates of alkali metal, Preparing combinations of. A. v. Sztankay. No. 1,357,482; Nov. 2; v. 280; p. 53.
Phonograph. J. P. Constable. No. 1,359,966; Nov. 23; v. 280; p. 692.
Phonograph. W. P. Dalrymple. No. 1,358,709; No. 16; v. 280; p. 400.
Phonograph. E. Forrest. No. 1,357,492; Nov. 2; v. 280; p. 55.
Phonograph. N. Grey. No. 1,361,717; Dec. 7; v. 281; p. 148.
Phonograph. N. Grey. No. 1,361,718; Dec. 7; v. 281; p. 148.
Phonograph. J. B. Griffin. No. 1,348,357; Aug. 3; v. 277; p. 45.
Phonograph. H. Guilbert. No. 1,342,284; June 1; v. 275; p. 132.
Phonograph. N. H. Holland. No. 1,359,991; Nov. 23; v. 280; p. 697.
Phonograph. W. S. Kucki. No. 1,352,282; Sept. 7; v. 278; p. 109.
Phonograph. W. H. Miller. No. 1,350,616; Aug. 24; v. 277; p. 656.
Phonograph. H. K. Sandell. No. 1,331,214; Feb. 17; v. 271; p. 450.
Phonograph. G. M. Scherer. No. 1,331,788; Feb. 24; v. 271; p. 578.
Phonograph. E. J. Speer. No. 1,357,910; Nov. 2; v. 280; p. 135.
Phonograph. A. E. Teal. No. 1,336,492; Apr. 13; v. 273; p. 208.
Phonograph. R. E. Utley. No. 1,362,972; Dec. 21; v. 281; p. 491.
Phonograph and analogous apparatus. E. Grissinger. No. 1,339,558; May 11; v. 274; p. 245.
Phonograph and analogous apparatus. E. Grissinger. No. 1,339,648; May 11; v. 274; p. 262.
Phonograph and analogous apparatus. E. Grissinger. No. 1,339,649; May 11; v. 274; p. 263.
Phonograph and lamp, Combination. P. R. Gonsky. No. 1,353,469; Sept. 21; v. 278; p. 438.
Phonograph and moving-picture machine, Combination. J. F. Osborn. No. 1,328,189; Jan. 13; v. 270; p. 307.
Phonograph-articulator. F. B. Long. No. 1,352,291; Sept. 7; v. 278; p. 111.
Phonograph attachment. E. T. Hull. No. 1,359,599; Nov. 23; v. 280; p. 619.
Phonograph attachment. D. McNeill. No. 1,341,511; May 25; v. 274; p. 745.
Phonograph attachment. R. W. Morrison. No 1,344,186; June 22; v. 275; p. 686.
Phonograph, Automatic. C. M. Heck. No. 1,347,096; July 20; v. 276; p. 470.
Phonograph-brake. J. H. Kuns. No. 1,342,023; June 1; v. 275; p. 80.
Phonograph-brake. A. E. Parnall. No. 1,345,397; July 6; v. 276; p. 14.
Phonograph control. J. Hoffay. No. 1,349,763; Aug. 17; v. 277; p. 444.
Phonograph-cover support. M. C. Bersted. No. 1,361,223; Dec. 7; v. 281; p. 48.
Phonograph-diaphragm. W. D. Gans. No. 1,355,600; Oct. 12; v. 279; p. 279.
Phonograph disk records, Cabinet for. B. V. Curtis. No. 1,362,235; Dec. 14; v. 281; p. 298.
Phonograph driving mechanism. D. W. Allis. No. 1,335,809; Apr. 6; v. 273; p. 20.
Phonograph-driving mechanism. O. E. Kellum and S. A. Murdock. No. 1,346,376; July 13; v. 276; p. 268.
Phonograph-horn. F. C. Lyon. No. 1,349,286; Aug. 10; v. 277; p. 277.
Phonograph-lighting attachment. G. E. Bernecker. No. 1,352,779; Sept. 14; v. 278; p. 243.
Phonograph-motor. F. C. Dohrmann. No. 1,358,426; Nov. 9; v. 280; p. 300.
Phonograph-motor. H. Duchesne. No. 1,335,566; Mar. 30; v. 272; p. 858.
Phonograph-motor. A. Roemer. No. 1,343,584; June 15; v. 275; p. 503.
Phonograph-motor. W. G. Shelton. No. 1,350,571; Aug. 24; v. 277; p. 647.
Phonograph-motor. T. E. White and G. McIntosh. No. 1,349,401; Aug. 10; v. 277; p. 300.
Phonograph-motors, Mechanical starter for. J. T. Sibley. No. 1,337,280; Apr. 20; v. 273; p. 433.
Phonograph-mount. C. H. E. Boughton. No. 1,340,369; May 18; v. 274; p. 456.
Phonograph, Multirecord. R. G. Brown. No. 1,334,076; Mar. 16; v. 272; p. 472.
Phonograph, Multiple-record-repeating. C. M. Heck. No. 1,342,442; June 8; v. 275; p. 215.
Phonograph-needle. J. Heino. No. 1,343,507; June 15; v. 275; p. 487.
Phonograph-needle. M. J. Rudert. No. 1,358,178; Nov. 9; v. 280; p. 249.
Phonograph-needle-sharpening attachment. J. Silberstang. No. 1,349,009; Aug. 10; v. 277; p. 222.
Phonograph-needles, Device for repointing. V. H. Emerson. No. 1,360,511; Nov. 30; v. 280; p. 867.
Phonograph-needles, Machine for making. G. T. Oium. No. 1,340,400; May 18; v. 274; p. 461.
Phonograph, Plural-record. G. W. Bowers. (Reissue.) No. 14,817; Mar. 16; v. 272; p. 508.
Phonograph-record. F. W. Walthers. No. 1,331,857; Feb. 24; v. 271; p. 592.
Phonograph-record album. M. Willinger. No. 1,332,656; Mar. 2; v. 272; p. 92.
Phonograph-record-filing device. R. J. Bentley. No. 1,340,364; May 18; v. 274; p. 455.
Phonograph-record holder. W. H. Schlingloff. No. 1,336,382; Apr. 6; v. 273; p. 128.
Phonograph-records and sheet-music, Method and means for advertising and selling. J. M. Goudelock and R. E. Weinberg. No. 1,331,254; Feb. 17; v. 271; p. 457.
Phonograph-records, Apparatus for cleaning. E. V. George. No. 1,339,700; May 11; v. 274; p. 272.
Phonograph-records, Filing device for. W. R. Everett. No. 1,334,026; Mar. 16; v. 272; p. 463.
Phonograph-records, Lock-cabinet for. M. R. Hutchison. No. 1,351,333; Aug. 31; v. 277; p. 858.
Phonograph-records, Method of and apparatus for making. T. C. Roberts. No. 1,358,577; Nov. 9; v. 280; p. 329.
Phonograph repeating apparatus. H. A. Myers. No. 1,330,603; Feb. 10; v. 271; p. 266.
Phonograph-reproducer. F. L. Capps. No. 1,358,135; Nov. 9; v. 280; p. 241.
Phonograph-reproducers, Indicator for. J. Wolff. No. 1,350,763; Aug. 24; v. 277; p. 684.
Phonograph-resetting device. T. Ahearn. No. 1,340,358; May 18; v. 274; p. 453.
Phonograph-resonator. W. C. Beckwith. No. 1,328,412; Jan. 20; v. 270; p. 385.
Phonograph sound-box. E. Cassca. No. 1,342,663; June 8; v. 275; p. 257.
Phonograph sound-box. J. N. Pepin. No. 1,341,154; May 25; v. 274; p. 676.
Phonograph sound-box. A. Rogati and L. Aronne. No. 1,346,685; July 13; v. 276; p. 329.
Phonograph sound-box. C. H. Shaw. No. 1,347,059; July 20; v. 276; p. 463.
Phonograph, Sound-magnifying. E. S. Pridham and P. L. Jensen. No. 1,329,928; Feb. 3; v. 271; p. 109.
Phonograph, Spring-winding mechanism for. W. M. Allen. No. 1,351,938. Sept. 7; v. 278; p. 45.
Phonograph-springs, Fastening device for. G. T. Cherington. No. 1,347,079; July 20; v. 276; p. 467.
Phonograph starting and stopping mechanism. H. A. Bloomquist. No. 1,360,080; Nov. 23; v. 280; p. 714.
Phonograph-starting device. C. H. Gibbons and J. P. Cleal. No. 1,338,365; Apr. 27; v. 273; p. 708.
Phonograph-stop. F. A. Nolan. No. 1,335,911; Apr. 6; v. 273; p. 89.
Phonograph-stop, Automatic. W. D. Griswold. No. 1,339,058; May 4; v. 274; p. 76.
Phonograph-stop, Automatic. A. C. Hendricks. No. 1,327,955; Jan. 13; v. 270; p. 262.
Phonograph-stop, Automatic. C. H. Lenerville. No. 1,349,970; Aug. 17; v. 277; p. 483.
Phonograph-stop, Automatic. J. M. Roth. No. 1,333,997; Mar. 16; v. 272; p. 457.
Phonograph-tone modifier. M. Maltz. No. 1,339,404; May 11; v. 274; p. 215

Digitized by Google

Alphabetical list of inventions—Continued.

Phonograph tone-modulator. F. Myers. No. 1,338,950; May 4; v. 274; p. 55.
Phonograph tone-recording point. W. O. Moser. No. 1,362,173; Dec. 14; v. 281; p. 285.
Phonograph, Twin. I. Noriega. No. 1,358,171; Nov. 9; v. 280; p. 247.
Phonograph winding-handle. H. S. Cahn and H. Siskin. No. 1,348,476; Aug. 3; v. 277; p. 69.
Phonographs, Automatic stop and start for. P. M. Krèe and F. Dauteuil. No. 1,339,203; May 4; v. 274; p. 102.
Phonographs, Automatic stop for. A. F. Bruhy. No. 1,360,879; Nov. 30; v. 280; p. 939.
Phonographs, Automatic stop for. R. Head. No. 1,358,312; Nov. 9; v. 280; p. 275.
Phonographs, Automatic stop for. G. H. Taggart. No. 1,327,501; Jan. 6; 270; p. 116.
Phonographs, Automatic winding device for. S. A. and R. I. Wolfrum. No. 1,358,602; Nov. 9; v. 280; p. 334.
Phonographs, Flexible tripping device for. J. B. Griffin. No. 1,348,358; Aug. 3; v. 277; p. 45.
Phonographs, Foot-power winding device for. H. B. Strohl, D. N. Imboden, and J. H. McCashen. No. 1,331,828; Feb. 24; v. 271; p. 586.
Phonographs, Lighting attachment for. W. C. Money. No. 1,351,675; Aug. 31; v. 277; p. 925.
Phonographs, Sound-box raising and lowering attachment for. J. W. Evans. No. 1,362,859; Dec. 21; v. 281; p. 471.
Phonographs, Sound-modifying means for. J. Hajek. No. 1,356,983; Oct. 26; v. 279; p. 637.
Phonographs, Sound-reproducer for. W. De Neult. No. 1,358,624; Nov. 9; v. 280; p. 339.
Phonographs, Stylus-bar control for. R. W. Morrison. No. 1,357,338; Nov. 2; v. 280; p. 27.
Phonographs, Turntable for. J. G. Merriam. No. 1,347,113; July 20; v. 276; p. 473.
Phonographic films, Means for providing a border on. R. C. Burns. No. 1,335,089; Mar. 30; v. 272; p. 769.
Phonographic-record-album signature. M. Willinger. No. 1,345,724; July 6; v. 276; p. 78.
Phosphate, Manufacture of. G. R. Brobst. No. 1,360,248; Nov. 23; v. 280; p. 748.
Phosphate composition. J. G. Lipman. No. 1,361,597; Dec. 7; v. 281; p. 125.
Phosphate, Producing double super-. C. C. Meigs. No. 1,351,672; Aug. 31; v. 277; p. 925.
Photo-engraver's screen. A. J. Arata. No. 1,341,610; May 25; v. 274; p. 764.
Photo-sensitive silver compounds, Desensitizing. N. Sulsberger. No. 1,361,352; Dec. 7; v. 281; p. 75.
Photo-sticker. E. V. Bloomquist. No. 1,342,248; June 1; v. 275; p. 125.
Photos, Device for washing. E. E. Kleine. No. 1,348,881; Aug. 10; v. 277; p. 197.
Photochemical apparatus. W. O. Snelling. No. 1,339,675; May 11; v. 274; p. 268.
Photofilm-clip. L. F. McKelvey and J. A. Brandenburger. No. 1,329,422; Feb. 3; v. 271; p. 15.
Photograph-album, Leafless. P. H. Kraetsch. No. 1,336,438; Apr. 13; v. 273; p. 198.
Photograph-cleaning device. A. Lomax. No. 1,346,662; July 13; v. 276; p. 325.
Photograph-holder. L. D. Bender. No. 1,333,531; Mar. 9; v. 272; p. 308.
Photograph-negative-developing frame. E. B. Core. No. 1,348,153; Aug. 3; v. 277; p. 4.
Photograph-printing apparatus. H. Shapiro. No. 1,335,860; Apr. 6; v. 273; p. 29.
Photograph-printing apparatus. H. Weiss. No. 1,361,555; Dec. 7; v. 281; p. 117.
Photographs and projecting the same in natural colors, Method of and apparatus for producing. E. C. S. Parker. No. 1,328,291; Jan. 20; v. 270; p. 362.
Photographer's developing-rack. B. R. Day. No. 1,347,620; July 27; v. 276; p. 630.
Photographic and cinematographic projection. J. L. Pech. No. 1,330,447; Feb. 10; v. 271; p. 237.
Photographic and developing apparatus. G. C. Beidler. No. 1,359,481; Nov. 23; v. 280; p. 596.
Photographic apparatus. H. J. Gaisman. No. 1,359,245; Nov. 16; v. 280; p. 503.
Photographic apparatus. C. C. Kuo. No. 1,360,414; Nov. 30; v. 280; p. 847.
Photographic apparatus. E. C. S. Parker. No. 1,328,292; Jan. 20; v. 270; p. 362.
Photographic apparatus. E. C. S. Parker. No. 1,328,293; Jan. 20; v. 270; p. 362.
Photographic apparatus. E. C. S. Parker. No. 1,328,294; Jan. 20; v. 270; p. 363.
Photographic apparatus. E. C. S. Parker. No. 1,341,338; May 25; v. 274; p. 711.
Photographic apparatus. G. N. Pifer. No. 1,347,824; July 27; v. 276; p. 671.
Photographic arts, Process and apparatus for making a translucent medium for use in the. F. W. Hochstetter. No. 1,345,184; June 29; v. 275; p. 945.
Photographic cartography, Method of and apparatus for. A. Brock, Jr. No. 1,331,978; Feb. 24; v. 271; p. 614.
Photographic developing-machine. S. J. Sussman. No. 1,328,305; Jan. 20; v. 270; p. 365.
Photographic exposure apparatus and conveying-conduit therefor. H. L. d'Albert. No. 1,358,623; Nov. 9; v. 280; p. 338.
Photographic film. F. W. Lovejoy. No. 1,342,590; June 8; v. 275; p. 244.
Photographic-film clip. G. C. Cross. No. 1,333,794; Mar. 16; v. 272; p. 419.
Photographic-film developing apparatus. J. Huffnagle. No. 1,359,382; Nov. 16; v. 280; p. 531.
Photographic-film hanger. G. C. Cross. No. 1,360,187; Nov. 23; v. 280; p. 735.
Photographic-film holder. J. C. Backus. No. 1,363,217; Dec. 28; v. 281; p. 580.
Photographic-film holder. W. A. Leiter. No. 1,361,767; Dec. 7; v. 281; p. 157.
Photographic-film sheath. W. F. Fohner. No. 1,351,998; Sept. 7; v. 278; p. 57.
Photographic-film-winding mechanism. R. Kroedel. No. 1,360,538; Nov. 30; v. 280; p. 872.
Photographic films, Making. E. M. Flaherty. No. 1,350,274; Aug. 17; v. 277; p. 542.
Photographic films, plates, or the like, Means for inscribing unexposed. B. W. King. No. 1,351,762. Sept. 7; v. 278; p. 9.
Photographic finders, Masking attachment for. G. R. Caley. No. 1,347,681; July 27; v. 276; p. 642.
Photographic image. W. V. D. Kelley and J. Mason. No. 1,350,024; Aug. 17; v. 277; p. 494.
Photographic image and producing same, Colored. J. M. Blaney. No. 1,331,092; Feb. 17; v. 271; p. 428.
Photographic images, Producing colored. C. Raleigh and W. V. D. Kelley. No. 1,333,730; Mar. 16; v. 270; p. 407.
Photographic material, Apparatus for producing designations upon. H. J. Gaisman. No. 1,359,246; Nov. 16; v. 280; p. 503.
Photographic objective. L. C. Bishop. No. 1,347,673; July 27; v. 276; p. 640.
Photographic objective. C. C. Minor. No. 1,360,667; Nov. 30; v. 280; p. 897.
Photographic objective. F. E. Ross. No. 1,352,028; Sept. 7; v. 278; p. 61.
Photographic phonograph. F. W. Adsit. No. 1,338,719; May 4; v. 274; p. 13.
Photographic-plate holder. R. F. Iseman and E. L. Snyder. No. 1,355,146; Oct. 12; v. 279; p. 190.
Photographic-plate holder. R. C. Matson. No. 1,358,090; Nov. 9; v. 280; p. 232.
Photographic-plate holder. G. H. Shaw. No. 1,362,193; Dec. 14; v. 281; p. 289.
Photographic-plate holder. Y. Yamada. No. 1,343,653; June 15; v. 275; p. 516.
Photographic-plate rack. G. J. MacDowell. No. 1,349,972; Aug. 17; v. 277; p. 484.
Photographic-print-handling apparatus. J. S. Greene. No. 1,361,251; Dec. 7; v. 281; p. 53.
Photographic printing. W. V. D. Kelley and J. Mason. No. 1,350,023; Aug. 17; v. 277; p. 493.
Photographic-printing apparatus. G. C. Beidler. No. 1,340,209; May 18; v. 274; p. 425.
Photographic-printing apparatus. A. S. Howell. (Reissue.) No. 14,799; Feb. 3; v. 271; p. 131.
Photographic printing, Automatic timing apparatus for multiple. L. S. Rennick. No. 1,361,349; Dec. 7; v. 281; p. 74.
Photographic-printing frame. A. K. Gulhaug. No. 1,363,410; Dec. 28; v. 281; p. 617.
Photographic-printing frame. C. J. Lish. No. 1,353,922; Sept. 28; v. 278; p. 572.
Photographic-printing machine. A. E. Kaiser. No. 1,350,256; Aug. 17; v. 277; p. 538.
Photographic-printing machine. W. T. Oxley. No. 1,332,854; Mar. 2; v. 272; p. 129.
Photographic-printing paper and making same. T. P. Middleton. No. 1,329,918; Feb. 3; v. 271; p. 107.
Photographic-printing process. J. E. Thornton. No. 1,360,156; Nov. 23; v. 280; p. 729.
Photographic prints, Apparatus for washing. P. H. Waddell. No. 1,332,965; Mar. 9; v. 272; p. 203.
Photographic prints, Process and apparatus for making. C. W. Wilson. No. 1,353,690; Sept. 21; v. 278; p. 483.
Photographic projection apparatus. A. Konieczny. No. 1,346,319; July 13; v. 276; p. 258.
Photographic records, Machine for making. J. Zsoldos. No. 1,357,268; Nov. 2; v. 280; p. 13.
Photographic reproduction apparatus. M. M. Kulus. No. 1,363,518; Dec. 28; v. 281; p. 638.
Photographic reproduction, Means for use in. M. M. Kulus. No. 1,363,517; Dec. 28; v. 281; p. 638.
Photographic screens for half-tone work, Producing. H. A. Corbett. No. 1,338,492; Apr. 27; v. 273; p. 732.
Photographic shutter. B. A. Slocum. No. 1,333,041; Mar. 9; v. 272; p. 217.
Photographic shutter. E. E. Underwood. No. 1,354,526; Oct. 5; v. 279; p. 16.
Photographic surfaces and article, Preserving sensitized. F. P. McColl and W. W. Willison. No. 1,344,240; June 22; v. 275; p. 696.
Photographs and other pictures telegraphically, Apparatus for and method of transmitting. J. E. Homans. No. 1,356,767; Oct. 26; v. 279; p. 595.
Photographs, Corner-holder for. S. E. Butler. No. 1,356,693; Oct. 26; v. 279; p. 581.
Photography, Color. F. M. Warner. No. 1,358,802; Nov. 16; v. 280; p. 419.
Photography, Multiple-image. N. E. Luboshey. No. 1,351,430; Aug. 31; v. 277; p. 877.

Digitized by Google

Photography, Roll-film or similar camera for color. H. Hess. No. 1,330,535; Feb. 10; v. 271; p. 254.
Photometer. C. Stang. No. 1,329,439; Feb. 3; v. 271; p. 18.
Photoprinting-machine. F. H. White. No. 1,340,511; May 18; v. 274; p. 482.
Photoprinting machines, Printing attachment for. T. G. Cooper. No. 1,363,089; Dec. 21; v. 281; p. 515.
Piano. R. W. Gertz. No. 1,353,903; Sept. 28; v. 278; p. 568.
Piano. G. Lutz. No. 1,331,572; Feb. 24; v. 271; p. 537.
Piano. C. Mehlin. No. 1,335,791; Apr. 6; v. 273; p. 17.
Piano-action. R. W. Gertz. No. 1,353,905; Sept. 28; v. 278; p. 568.
Piano action-bracket, Grand-. F. L. George. No. 1,353,648; Sept. 21; v. 278; p. 475.
Piano action, Grand-. F. L. George. No. 1,353,647; Sept. 21; v. 278; p. 475.
Piano action, Player-. W. J. Wodraska. No. 1,349,481; Aug. 10; v. 277; p. 315.
Piano action, Pneumatic player-. A. L. Collignon. No. 1,363,457; Dec. 28; v. 281; p. 626.
Piano actions, Combination jack-spring and touch-regulator for upright-. F. L. George. No. 1,353,649; Sept. 21; v. 278; p. 475.
Piano actions, Damper for grand-. F. L. George. No. 1,353,643; Sept. 21; v. 278; p. 474.
Piano actions, Damper for upright-. F. L. George. No. 1,353,644; Sept. 21; v. 278; p. 474.
Piano-actions, Flexible striking device for. N. M. Ong. No. 1,342,029; June 1; v. 275; p. 81.
Piano actions, Hammer rest-rail for grand-. F. A. Wessell. No. 1,353,442; Sept. 21; v. 278; p. 432.
Piano actions, Pianissimo device for upright-. F. L. George. No. 1,353,645; Sept. 21; v. 278; p. 474.
Piano-actions, Regulating-hook for. W. A. Goble. No. 1,351,512; Aug. 31; v. 277; p. 893.
Piano actions, Touch-regulator for grand-. F. L. George. No. 1,353,646; Sept. 21; v. 278; p. 474.
Piano and other string instruments, Hitch-pin for. F. J. Colmus. No. 1,339,689; May 11; v. 274; p. 270.
Piano-bridle-strap fastener. T. J. Malcolm. No. 1,343,516; June 15; v. 275; p. 489.
Piano-control apparatus, Player-. M. S. Howard. No. 1,339,848; May 11; v. 274; p. 300.
Piano-covers to pianos, Device for holding. C. J. Palm. No. 1,358,239; Nov. 9; v. 280; p. 261.
Piano-feeders, Valve for. W. F. Cooper. No. 1,355,941; Oct. 19; v. 279; p. 386.
Piano-flange. E. Koll. No. 1,353,596; Sept. 21; v. 278; p. 464.
Piano-hammers, Machine for securing the felts to. O. E. Borgarello. No. 1,327,018; Jan. 6; v. 270; p. 27.
Piano, Keyboard for practicing and teaching the playing of the. H. S. Wilder. No. 1,347,068; July 20; v. 276; p. 465.
Piano-keys, Touch-regulator for. H. Bell and E. H. Lens. No. 1,341,035; May 25; v. 274; p. 653.
Piano mechanism, Player-. J. P. Hulder. No. 1,341,425; May 25; v. 274; p. 728.
Piano-note indicator. S. Siegel. No. 1,340,569; May 18; v. 274; p. 493.
Piano-pedal. J. Giglio. No. 1,340,162; May 18; v. 274; p. 417.
Piano-pedal. B. H. Jefferson and W. I. Kirk. No. 1,353,755; Sept. 21; v. 278; p. 496.
Piano pedal-action. A. A. Huseby. No. 1,333,657; Mar. 16; v. 272; p. 393.
Piano, Player-. T. P. Brown. No. 1,363,306; Dec. 28; v. 281; p. 598.
Piano, Player-. F. W. Bull. No. 1,344,984; June 29; v. 275; p. 906.
Piano-player. H. R. Dawson. No. 1,355,653; Oct. 12; v. 279; p. 289.
Piano, Player-. S. L. Fisher. No. 1,329,702; Feb. 3; v. 271; p. 66.
Piano, Player-. F. J. W. Welser. No. 1,351,312; Aug. 31; v. 277; p. 853.
Piano, Player-. A. J. Gordon. No. 1,359,054; Nov. 16; v. 280; p. 468.
Piano, Player-. J. R. A. Lang. No. 1,354,767; Oct. 5; v. 279; p. 64.
Piano, Player-. J. W. Zimmerman. No. 1,352,337; Sept. 7; v. 278; p. 120.
Piano-player action. A. G. Gulbransen. No. 1,349,273; Aug. 10; v. 277; p. 275.
Piano-player action, Automatic. J. S. Maxwell. No. 1,358,455; Nov. 9; v. 280; p. 305.
Piano-player, Mechanical. C. H. Taylor. No. 1,343,237; June 15; v. 275; p. 436.
Piano-player, Pneumatic. C. E. Peterson. No. 1,346,246; July 13; v. 276; p. 242.
Piano-players, Controlling device for pneumatic. M. Newcomer. No. 1,332,187; Feb. 24; v. 271; p. 652.
Piano-players, Pneumatic and connection for pneumatic. W. Lane. No. 1,346,900; July 20; v. 276; p. 431.
Piano-players, Pneumatic motor for. C. E. Peterson. No. 1,327,731; Jan. 13; v. 270; p. 221.
Piano-players, Pressure-reserve method and mechanism for. J. W. Dickinson. No. 1,344,886; June 22; v. 275; p. 725.
Piano sounding-board and frame. T. A. Johanson. No. 1,359,707; Nov. 23; v. 280; p. 640.
Piano-stool seat, Revolving. O. E. Borgarello. No. 1,332,201; Mar. 2; v. 272; p. 5.
Piano transmissions, Automatic drag for player-. W. T. Waite. No. 1,351,881; Sept. 7; v. 278; p. 34.
Pianos, Action for upright. F. L. George. No. 1,362,414; Dec. 14; v. 281; p. 332.
Pianos and similar instruments, Hammer for. A. E. N. Lawrance. No. 1,353,357; Sept. 21; v. 278; p. 416.
Pianos, Attachment for player-. O. E. Wall. No. 1,331,833; Feb. 24; v. 271; p. 587.
Pianos, Bellows construction for player-. A. G. Gulbranson. No. 1,356,710; Oct. 26; v. 279; p. 584.
Pianos, Controlling mechanism for player-. C. Freborg. No. 1,343,442; June 15; v. 275; p. 475.
Pianos, Expression mechanism for mechanical. C. Contal. No. 1,340,019; May 11; v. 274; p. 332.
Pianos, Incorrect-position indicator for. L. L. Tiffany. No. 1,343,595; June 15; v. 275; p. 505.
Pianos, Music-desk for. T. A. Johanson. No. 1,359,706; Nov. 23; v. 280; p. 640.
Pianos, Optical attachment for player-. D. S. Graham. No. 1,355,469; Oct. 12; v. 279; p. 254.
Pianos, Pedal-chord-player attachment for. F. J. Kummeth. No. 1,332,668; Mar. 2; v. 272; p. 94.
Pianos, Pneumatic action for. W. G. Betz. No. 1,335,476; Mar. 30; v. 272; p. 841.
Pianos, Pneumatic player-action for. C. E. Peterson. No. 1,330,340; Feb. 10; v. 271; p. 218.
Pianos, Sheet-winding mechanism for player-. E. D. Moore and S. L. Fisher. No. 1,331,870; Feb. 24; v. 271; p. 594.
Pianos, Vacuum-pump for player-. W. E. Shore. No. 1,356,496; Oct. 19; v. 279; p. 494.
Pianos, Wrist-supporting attachment for. L. F. Stafford. No. 1,359,928; Nov. 23; v. 280; p. 684.
Pick. J. N. Groover. No. 1,357,451; Nov. 2; v. 280; p. 47.
Pick. J. A. Velchansky and S. Stefaniak. No. 1,339,638; May 11; v. 274; p. 260.
Pick-handles, Guard for. C. D. Brosch. No. 1,342,495; June 8; v. 275; p. 225.
Pick-off apparatus. L. Gerhardt. No. 1,362,286; Dec. 14; v. 281; p. 307.
Picks, Shield attachment for. A. G. Higgins. No. 1,358,206; Nov. 9; v. 280; p. 254.
Picker: *See*—
Berry-picker. Potato-picker.
Corn-picker. Stem-picker.
Cotton-picker. Stone-picker.
Cranberry-picker. Walnut-picker.
Fruit-picker.
Picker. J. Nault. No. 1,329,991; Feb. 3; v. 271; p. 121.
Picker-head. C. N. Wisner. No. 1,341,959; June 1; v. 275; p. 68.
Picker-stick check. D. H. Hunt. No. 1,356,366; Oct. 19; v. 279; p. 470.
Picker-stick friction-bunter. C. M. Stone. No. 1,341,394; May 25; v. 274; p. 723.
Picker-sticks, Buffer-bracket for. J. Savoie. No. 1,354,072; Sept. 28; v. 278; p. 603.
Pickle liquor, Method of and apparatus for treating waste. A. T. Weaver, E. W. D. Laufer, and E. von Wintzingerode. No. 1,348,462; Aug. 3; v. 277; p. 65.
Pickled plates, Treating. C. Williams. No. 1,360,843; Nov. 30; v. 280; p. 932.
Pickling material. L. J. Graue. No. 1,331,866; Feb. 24; v. 271; p. 594.
Pickling-weight. A. E. Wetsler. No. 1,353,104; Sept. 14; v. 278; p. 307.
Picnic, &c., food-holder. E. A. Dennis. No. 1,327,948; Jan. 13; v. 270; p. 261.
Picture and sound-reproducing apparatus, Motion-. J. G. Saltzman. No. 1,341,933; June 1; v. 275; p. 63.
Picture and talking machine, Combined motion-. J. G. Harris. No. 1,354,742; Oct. 5; v. 279; p. 58.
Picture apparatus and motion-picture film therefor, Motion-. H. Workman. No. 1,328,352; Jan. 20; v. 270; p. 374.
Picture apparatus, Automatic light-regulator for motion-. C. R. and G. W. Carleton. No. 1,331,979; Feb. 24; v. 271; p. 614.
Picture apparatus, Fire-extinguisher for motion-. C. F. Jenkins. No. 1,348,565; Aug. 3; v. 277; p. 85.
Picture apparatus, Fire-prevention device for motion-. H. Goodwin. No. 1,353,389; Sept. 21; v. 278; p. 422.
Picture apparatus, Intermittent gearing for motion-. R. P. De Vault. No. 1,355,543; Oct. 12; v. 279; p. 269.
Picture apparatus, Motion-. T. Armat. No. 1,358,917; Nov. 16; v. 280; p. 442.
Picture apparatus, Motion-. R. P. De Vault. No. 1,347,326; July 20; v. 276; p. 515.
Picture apparatus, Motion-. R. P. De Vault. No. 1,362,985; Dec. 21; v. 281; p. 494.
Picture apparatus, Motion-. N. T. Whitaker. No. 1,329,216; Jan. 27; v. 270; p. 566.
Picture apparatus, Moving-. D. Boixeda. No. 1,336,996; Apr. 13; v. 273; p. 305.
Picture apparatus, Panoramic-motion-. T. A. Killman. No. 1,347,103; July 20; v. 276; p. 471.

Digitized by Google

Alphabetical list of inventions—Continued.

Picture apparatus, Talking-. H. C. Bullis. No. 1,335,651; Mar. 30; v. 272; p. 874.
Picture camera and projector, Combined motion-. J. S. Kennard, Jr. No. 1,352,003; Sept. 7; v. 278; p. 57.
Picture camera, Motion-. G. R. Stringham. No. 1,350,683; Aug. 24; v. 277; p. 669.
Pitcure camera, Motion-. G. R. Stringham. No. 1,362,199; Dec. 14; v. 281; p. 299.
Picture cameras, Support for motion-. K. W. Thalhammer. No. 1,358,402; Nov. 9; v. 280; p. 295.
Picture-display apparatus. E. C. Leachman. No. 1,357,783; Nov. 2; v. 280; p. 111.
Picture-display device. A. P. Dulgeroff. No. 1,354,245; Sept. 28; v. 278; p. 638.
Picture-display machine. A. F. Shore. No. 1,331,284; Feb. 17; v. 271; p. 462.
Picture-display screen, Moving-. F. C. Rockwell and W. M. Davis. No. 1,356,659; Oct. 26; v. 279; p. 574.
Picture effects upon enameled metal surfaces, Permanently producing. R. Sandby. No. 1,335,755; Apr. 6; v. 273; p. 10.
Picture entertainments, Apparatus for producing talking-motion-. C. N. Andrews. No. 1,354,272; Sept. 28; v. 278; p. 644.
Picture exhibitions, Means for synchronizing and harmonizing. R. H. Hatfield. No. 1,352,126; Sept. 7; v. 278; p. 80.
Picture-film band, Non-slip motion-. W. L. Clarke, Jr. No. 1,345,129; June 29; v. 275; p. 934.
Picture-film drive, Reinforced moving-. M. T. Minogue. No. 1,359,821; Nov. 23; v. 280; p. 663.
Picture-film-feed mechanism, Motion-. F. R. Lockhart and H. J. Ord. No. 1,328,382; Jan. 20; v. 270; p. 379.
Picture-film-feeding mechanism, Motion-. F. C. Wheeler. No. 1,332,700; Mar. 2; v. 272; p. 100.
Picture film, Motion-. O. A. Owen. No. 1,347,053; July 20; v. 276; p. 462.
Picture film, Moving-. H. R. Ewing. No. 1,334,948; Mar. 30; v. 272; p. 742.
Picture film, Moving-. I. M. Ritter. No. 1,360,441; Nov. 30; v. 280; p. 853.
Picture-film reel, Motion-. M. F. Walker. No. 1,345,813; July 6; v. 276; p. 95.
Picture-film reels, Alarm for motion-. M. F. Walker. No. 1,348,609; Aug. 3; v. 277; p. 93.
Picture-film reels, Film-end fastener for motion-. M. F. Walker. No. 1,328,408; Jan. 20; v. 270; p. 385.
Picture films, Apparatus for repairing moving-. M. S. Rosenfeld. No. 1,328,056; Jan. 13; v. 270; p. 281.
Picture films, Apparatus for softening motion-. P. Werner, No. 1,352,712; Sept. 14; v. 278; p. 229.
Picture films, Apparatus for softening motion-. P. Werner. No. 1,352,713; Sept. 14; v. 278; p. 229.
Picture films, Apparatus for treating motion-. J. G. Capstaff. No. 1,351,834; Sept. 7; v. 278; p. 24.
Picture films, Cleaner and polishing machine for motion-. S. Borman. No. 1,356,903; Oct. 26; v. 279; p. 622.
Picture films, Coloring moving-. E. S. Gillespie. No. 1,342,803; June 8; v. 275; p. 287.
Picture films, Emollient for motion-. P. Werner. No. 1,354,009; Sept. 28; v. 278; p. 589.
Picture-films, Limited combustion of. C. F. Jenkins. No. 1,348,177; Aug. 3; v. 277; p. 9.
Picture films, Machine for applying emollient to motion-. P. Werner. No. 1,351,408; Aug. 31; v. 277; p. 873.
Picture films, Method and apparatus for feeding motion-. W. B. Morton. No. 1,361,167; Dec. 7; v. 281; p. 37.
Picture films, Method of and apparatus for making motion-. F. M. Faber. (Reissue.) No. 14,096; Nov. 30; v. 280; p. 962.
Picture films, Method of and apparatus for producing stereoscopic motion-. H. M. Prud'homme. No. 1,350,836; Aug. 24; v. 277; p. 698.
Picture films, Misframe-indicator for moving-. D. H. Gibbs. No. 1,334,028; Mar. 16; v. 272; p. 468.
Picture films, Motion-. W. V. D. Kelley. No. 1,337,775; Apr. 20; v. 273; p. 527.
Picture films, Sprocket for moving-. F. R. Sommermeyer. No. 1,361,019; Dec. 14; v. 281; p. 235.
Picture films, Treating moving-. R. D. Hanish. No. 1,356,356; Oct. 19; v. 279; p. 468.
Picture-frame. C. Fingerhut. No. 1,363,463; Dec. 28; v. 281; p. 627.
Picture-frame. R. D. Morgan. No. 1,334,780; Mar. 23; v. 272; p. 650.
Picture-frame. A. Walas. No. 1,342,477; June 8; v. 275; p. 222.
Picture-frame. S. Weiss. No. 1,356,575; Oct. 26; v. 279; p. 557.
Picture-frame, Adjustable. K. Chrobak. No. 1,341,971; June 1; v. 275; p. 70.
Picture-frame, Adjustable. J. F. Smith. No. 1,338,258; Apr. 27; v. 273; p. 688.
Picture-frame, Easel. R. Haley. No. 1,338,441; Apr. 27; v. 273; p. 722.
Picture-frame hanger. J. G. Dulle. No. 1,357,280; Nov. 2; v. 280; p. 15.
Picture-frame holder and hanger. B. K. Loyland. No. 1,338,384; Apr. 27; v. 273; p. 712.
Picture frame, moving-. A. T. Jacobsson. No. 1,353,242; Sept. 21; v. 278; p. 393.
Picture framing, Motion-. C. F. Jenkins. No. 1,348,566; Aug. 3; v. 277; p. 85.
Picture-hanger. J. J. Cook. No. 1,361,830; Dec. 14; v. 281; p. 217.
Picture hanger and hook remover. M. M. Ferguson. No. 1,339,444; May 11; v. 274; p. 223.
Picture-hook. L. S. Tyler. No. 1,343,855; June 15; v. 275; p. 557.
Picture kinetograph and exposing films, Motion-. L. Brown. No. 1,344,616; June 29; v. 275; p. 636.
Picture machine, Combination talking and moving. P. T. L. Champeix. No. 1,345,128; June 29; v. 275; p. 934.
Picture machine, Combined sound-reproducing and moving-. A. C. Cortella. No. 1,331,049; Feb. 17; v. 271; p. 420.
Picture machine, Framing device for motion-. W. Parkes. No. 1,335,749; Apr. 6; v. 273; p. 9.
Picture-machine magazine, Motion-. L. Brown. (Reissue.) Nos. 15,002–3; Dec. 14; v. 281; p. 365.
Picture machine, Motion-. J. P. Burnett. No. 1,341,108; May 25; v. 274; p. 667.
Picture machine, Motion-. N. C. Darby. No. 1,336,775; Apr. 13; v. 273; p. 262.
Picture machine, Motion-. J. Darby. No. 1,346,880; July 20; v. 276; p. 427.
Picture machine, Motion-. J. Grans. No. 1,349,420; Aug. 10; v. 277; p. 303.
Picture machine, Motion-. J. Grans. No. 1,349,421; Aug. 10; v. 277; p. 304.
Picture machine, Motion-. J. Grans. No. 1,349,422; Aug. 10; v. 277; p. 304.
Picture machine, Motion-. C. F. Jenkins. No. 1,342,681; June 8; v. 275; p. 261.
Picture machine, Motion-. I. Marks. No. 1,345,798; July 6; v. 276; p. 91.
Picture machine, Motion-. C. J. Peterson. No. 1,338,695; May 4; v. 274; p. 9.
Picture machine, Motion-. A. J. Roderick. No. 1,347,875; July 27; v. 276; p. 681.
Picture machine, Motion-. B. Stechbart. No. 1,334,324; Mar. 23; v. 272; p. 564.
Picture machine, Motion-. H. A. de Vry. No. 1,360,903; Nov. 30; v. 280; p. 943.
Picture machine, Motion-. J. Williams. No. 1,360,341; Nov. 30; v. 280; p. 834.
Picture machine, Moving-. W. E. Arnold and L. Z. Nighswonger. No. 1,360,707; Nov. 30; v. 280; p. 906.
Picture machine, Moving-. E. J. Hadley. No. 1,334,450; Mar. 23; v. 272; p. 588.
Picture machine, Moving-. J. Podjevin. No. 1,350,388; Aug. 24; v. 277; p. 610.
Picture machine, Moving-. C. L. Tomlinson. No. 1,332,238; Mar. 2; v. 272; p. 12.
Picture machine, Projecting apparatus for moving-. E. F. Porter. No. 1,356,787; Oct. 26; v. 279; p. 599.
Picture machine, Rotary moving-. R. L. Hansard. No. 1,359,457; Nov. 16; v. 280; p. 546.
Picture - machine stand, Moving-. N. Power. No. 1,337,267; Apr. 20; v. 273; p. 481.
Picture machines, Attachment for motion-. D. D. Daniel. No. 1,361,143; Dec. 7; v. 281; p. 32.
Picture machines, Automatic film-break detector for motion-. W. Wenderhold. No. 1,358,806; Nov. 16; v. 280; p. 420.
Picture machines, Equipment for moving-. R. N. Vyne. No. 1,341,527; May 25; v. 274; p. 748.
Picture machines, Film-gate and tension means for motion-. J. Darby. No. 1,350,548; Aug. 24; v. 277; p. 642.
Picture machines, Film-gate for motion-. L. Coatsworth. No. 1,348,626; Aug. 3; v. 277; p. 96.
Picture machines, Framing mechanism for moving-. T. F. Uhlemann. No. 1,351,814; Sept. 7; v. 278; p. 20.
Picture machines, Intermittent movement for moving-. W. B. Morton. No. 1,361,168; Dec. 7; v. 281; p. 37.
Picture machines, Reel-holder for moving-. J. H. Kochobo. No. 1,347,956; July 27; v. 276; p. 697.
Picture machines, Safety device for moving-. N. Power. No. 1,352,218; Sept. 7; v. 278; p. 96.
Picture machines, Safety mechanism for moving-. C. E. Morton. No. 1,360,971; Nov. 30; v. 280; p. 956.
Picture machines, Shutter for motion-. H. J. Chapman. No. 1,357,443; Nov. 2; v. 280; p. 46.
Picture machines, Shutter for motion-. H. E. Davis and H. A. Hartman. No. 1,330,519; Feb. 10; v. 271; p. 251.
Picture machines, Shutter for motion-. H. E. Davis and H. A. Hartman. No. 1,356,343; Oct. 19; v. 279; p. 466.
Picture machines, Shutter for moving-. J. H. Lehman. No. 1,349,214; Aug. 10; v. 277; p. 262.
Picture machines, Shutter for moving-. J. H. Lehman. No. 1,349,215; Aug. 10; v. 277; p. 262.
Picture-mounting. J. Andersen. No. 1,358,916; Nov. 16; v. 280; p. 442.
Picture-mounting device. A. W. Engel. No. 1,351,560; Aug. 31; v. 277; p. 903.
Picture-projecting apparatus. C. F. Jenkins. No. 1,327,280; Jan. 6; v. 270; p. 75.
Picture-projecting apparatus, Motion-. C. V. Hall. No. 1,356,140; Oct. 19; v. 279; p. 426.
Picture-projecting machine. W. C. Albers. No. 1,352,420; Sept. 14; v. 278; p. 171.

Digitized by Google

Picture-projecting machine, Motion-. J. Darby. No. 1,359,579; Nov. 23; v. 280; p. 615.
Picture-projecting machine, Motion-. W. H. Kelly. No. 1,341,467; May 25; v. 274; p. 737.
Picture-projecting machines, Sprocket-drum and film for motion-. J. Darby. No. 1,361,144; Dec. 7; v. 281; p. 32.
Picture-projecting mechanism, Motion-. A. Chiarelli. No. 1,342,040; June 1; v. 275; p. 84.
Picture-projection apparatus. A. B. Mueller. No. 1,348,656; Aug. 3; v. 277; p. 102.
Picture projector, Motion-. W. H. Cone. No. 1,356,600; Oct. 26; v. 279; p. 562.
Picture projector, Motion-. F. R. Lockhart and H. G. Ord. No. 1,330,040; Feb. 3; v. 271; p. 130.
Picture projectors, Carrying-case for motion-. C. J. Koch. No. 1,351,765; Sept. 7; v. 278; p. 10.
Picture projectors, Safety device for motion-. H. D. Dreyfus. No. 1,342,429; June 8; v. 275; p. 213.
Picture-screen. J. M. Shay. No. 1,347,761; July 27; v. 276; p. 659.
Picture-screen-frame projector. R. F. Paradis. No. 1,349,580; Aug. 17; v. 277; p. 408.
Picture shutter, Motion-. M. C. Fullenlove. No. 1,353,527; Sept. 21; v. 278; p. 449.
Picture shutter, Moving-. J. H. Lehman. No. 1,335,744; Apr. 6; v. 273; p. 8.
Picture theater, Moving-. E. W. Van Fleet. No. 1,348,069; July 27; v. 276; p. 720.
Pictures, Apparatus and process for producing motion-. H. G. Christensen. No. 1,328,266; Jan. 20; v. 270; p. 357.
Pictures, Apparatus for displaying colored living. A. P. Hahn. No. 1,355,498; Oct. 12; v. 279; p. 260.
Pictures, Apparatus for exhibiting moving. N. Power. No. 1,355,569; Oct. 12; v. 279; p. 273.
Pictures by daylight, Showing motion-. J. H. Robertson. No. 1,332,413; Mar. 2; v. 272; p. 46.
Pictures, Changing. C. W. Saalburg. No. 1,347,793; July 27; v. 276; p. 665.
Pictures, Daylight motion-. J. H. Robertson and D. Jan kower. No. 1,331,081; Feb. 17; v. 271; p. 426.
Pictures, Frame for a plurality of. H. Simon. No. 1,353,363; Sept. 21; v. 278; p. 417.
Pictures, Illumination of. F. J. Pope. No. 1,348,957; Aug. 10; v. 277; p. 212.
Pictures in colors, Method or apparatus for producing. B. D. Underhill. No. 1,340,923; May 25; v. 274; p. 631.
Pictures in relief, Apparatus for showing. C. E. R. Schneider. (Reissue.) No. 14,980; Nov. 9; v. 280; p. 353.
Pictures in relief, Means for viewing. W. L. Friedman. No. 1,358,685; Nov. 9; v. 280; p. 351.
Pictures, Indicating device for moving-. H. A. Ragle. No. 1,332,869; Mar. 2; v. 272; p. 132.
Pictures, Making combined real-life and animated-cartoon motion-. L. E. Brownley. No. 1,355,648; Oct. 12; v. 279; p. 288.
Pictures, Method and apparatus for taking moving. W. S. Ball. No. 1,351,502; Aug. 31; v. 277; p. 891.
Pictures, Method of and apparatus for identifying. T. C. Willson. No. 1,337,423; Apr. 20; v. 273; p. 460.
Pictures, Optical device for the production and projection of stereoscopic. G. Griffith. No. 1,334,532; Mar. 23; v. 272; p. 603.
Pictures, plaques, etc., Support for. H. E. Green. No. 1,339,703; May 11; v. 274; p. 273.
Pictures, Plate-holder for making changeable. C. W. Saalburg. No. 1,347,794; July 27; v. 276; p. 665.
Pictures, Producing stereoscopic effects in motion-. R. A. Duben and J. D. Grant. No. 1,351,508; Aug. 31; v. 277; p. 892.
Pictures, Rewinding means for motion-. W. F. Brinton. No. 1,335,817; Apr. 6; v. 273; p. 21.
Pictures, Screen for cinematograph-. F. Heale and G. W. Bryant. No. 1,349,064; Aug. 10; v. 277; p. 235.
Pictures with color effects, Method and apparatus for projecting moving and other. D. W. Griffith. No. 1,334,853; Mar. 23; v. 272; p. 665.
Pie-crusts and similar pastry, Making. L. C. Willcox. No. 1,330,018; Feb. 3; v. 271; p. 126.
Pie-edge trimmer. H. Dragon. No. 1,329,586; Feb. 3; v. 271; p. 40.
Pie-pan. G. A. Kinkel. No. 1,343,395; June 15; v. 275; p. 466.
Pie-plate holder. E. B. Jesse. No. 1,351,387; Aug. 31; v. 277; p. 869.
Pie trimmer and crimper. J. N. Burton. No. 1,356,692; Oct. 26; v. 279; p. 580.
Pier. D. P. Helmich. No. 1,358,951; Nov. 16; v. 280; p. 448.
Pigeons, Hand-package for clay. F. W. Kassack, Jr. No. 1,356,069; Oct. 19; v. 279; p. 411.
Pigment and its manufacture. V. M. Goldschmidt. No. 1,343,446; June 15; v. 275; p. 475.
Pigment containing titanium-oxygen compound. V. M. Goldschmidt. No. 1,343,447; June 15; v. 275; p. 475.
Pigment-powder for making smear-proof impressions. S. M. McMurray. No. 1,342,638; June 8; v. 275; p. 252.
Pigment, White. P. Farup. No. 1,360,737; Nov. 30; v. 280; p. 912.
Pigments, Method of and means for distributing. A. Cotoli. No. 1,328,368; Jan. 20; v. 270; p. 377.
Pigments, Producing. R. Nielsen and V. M. Goldschmidt. No. 1,343,468; June 15; v. 275; p. 479.
Pile. G. R. Heckle. No. 1,348,994; Aug. 10; v. 277; p. 219.
Pile and means for constructing the same, Submerged. C. L. Hoopes. No. 1,360,986; Nov. 30; v. 280; p. 960.
Pile-cutting mechanism. A. F. McCollum. No. 1,329,251; Jan. 27; v. 270; p. 572.
Pile fabric. G. Koch. No. 1,342,589; June 8; v. 275; p. 244.
Pile-fabric loom, Tuft-. H. Hughes. No. 1,362,625; Dec. 21; v. 281; p. 424.
Pile-follower. C. S. Boardman. No. 1,359,956; Nov. 23; v. 280; p. 690.
Pile, Plastic. J. Lindeman. No. 1,346,222; July 13; v. 276; p. 238.
Piles in situ, Construction of ferroconcrete. A. G. Rotinoff. No. 1,347,973; July 27; v. 276; p. 760.
Piles with concrete, Apparatus for covering submerged. F. M. White and H. E. Rieger. No. 1,339,535; May 11; v. 274; p. 240.
Piling and transfer apparatus. H. G. O'Brien. No. 1,331,208; Feb. 17; v. 271; p. 449.
Piling-machine. H. J. Carter and C. Taylor. No. 1,328,615; Jan. 20; v. 270; p. 424.
Piling-machine. C. Taylor, and B. H. Saunders. No. 1,342,190; June 1; v. 275; p. 114.
Piling, Method and apparatus for sinking. E. F. Estes. No. 1,347,688; July 27; v. 276; p. 644.
Piling, Reinforced-concrete. C. E. Nagel. No. 1,340,397; May 18; v. 274; p. 461.
Piling, Sheet-. E. Troye. No. 1,341,949; June 1; v. 275; p. 66.
Pin: *See*—
Bar-pin.
Brake-pin.
Bowling-pin.
Corn-husker pin.
Clothespin.
Dowel-pin.
Hairpin.
Rolling-pin.
Safety-pin.
Stacking-pin.
Tie-holding pin.
Pin and clasp, Combined safety-. C. Fisher. No. 1,340,533; May 18; v. 274; p. 486.
Pin and needle cushion. S. A. A. Stenberg. No. 1,357,086; Oct. 26; v. 279; p. 658.
Pin-attached separable fastener. I. V. Benoit. No. 1,354,159; Sept. 28; v. 278; p. 621.
Pin-dispenser. B. S. Elrod. No. 1,339,503; May 11; v. 274; p. 234.
Pin-fastener. M. Starmer. No. 1,354,631; Oct. 5; v. 279; p. 37.
Pin-lifter connection. S. H. Campbell. No. 1,358,361; Nov. 9; v. 280; p. 286.
Pin mounting, Detachable-. E. A. Bultman. No. 1,361,011; Dec. 7; v. 281; p. 6.
Pin or bolt. J. R. Carmer. No. 1,354,953; Oct. 5; v. 279; p. 101.
Pin-pointing machine. H. Heine. No. 1,351,849; Sept. 7; v. 278; p. 27.
Pin-protector. J. Szczurek. No. 1,356,608; Oct. 26; v. 279; p. 576.
Pin-puller. W. A. Smith. No. 1,337,670; Apr. 20; v. 273; p. 507.
Pin-setting mechanism. W. F. Barrett. No. 1,335,638; Mar. 30; v. 272; p. 872.
Pin-setting mechanism. A. N. Olsen. No. 1,347,821; July 27; v. 276; p. 670.
Pin tumbler-lock. F. E. Thompson. No. 1,340,804; May 18; v. 274; p. 538.
Pins, hinge-pins, coupling-pins, &c., Locking means for joint-. E. Mepsted. No. 1,329,131; Jan. 27; v. 270; p. 550.
Pins, Machine for carding safety-. J. F. Haefele. No. 1,347,851; July 27; v. 276; p. 676.
Pins, Machine for pointing. M. Vidaver. No. 1,362,763; Dec. 21; v. 281; p. 452.
Pincushion. M. L. Pierce. No. 1,332,750; Mar. 2; v. 272; p. 110.
Pinwheel. C. F. Mitchell. No. 1,352,674; Sept. 14; v. 278; p. 222.
Pinch-bar. W. E. Smiley. No. 1,329,436; Feb. 3; v. 271; p. 17.
Pineapple-meat eradicator. G. E. Fisher. No. 1,350,096; Aug. 17; v. 277; p. 507.
Pinion, Combined center and cannon. W. W. Jordan. No. 1,327,392; Jan. 6; v. 270; p. 95.
Pipe: *See*—
Blowpipe.
Bubble-pipe.
Concrete pipe.
Flexible pipe.
Insulator-pin.
Locomotive blast-pipe.
Organ-pipe.
Smoking-pipe.
Speaking-pipe.
Standpipe.
Stovepipe.
Tank-valve for discharge-pipe.
Tobacco-pipe.
Pipe. N. H. Price. No. 1,351,685; Aug. 31; v. 277; p. 927.
Pipe and conduit coupling. A. Marshall. No. 1,330,327; Feb. 10; v. 271; p. 215.
Pipe and flange wrench. E. W. Orr. No. 1,341,069; May 25; v. 274; p. 660.
Pipe and hose coupling. J. Beach. No. 1,337,427; Apr. 20; v. 273; p. 461.
Pipe and hose coupling. N. Y. Robertson and H. Moss. No. 1,333,342; Mar. 9; v. 272; p. 273.

Digitized by Google

Pipe and means for connecting same. E. T. Greenfield. No. 1,344,032; June 22; v. 275; p. 656.
Pipe and nut wrench. G. B. Weatherly. No. 1,356,948; Oct. 26; v. 279; p. 630.
Pipe and rod bending machine. B. Schenk. No. 1,346,981; July 20; v. 276; p. 448.
Pipe attachment. T. F. Spellman. No. 1,355,862; Oct. 19; v. 279; p. 371.
Pipe-bender. G. R. Moore and C. S. Leonard. No. 1,349,219; Aug. 10; v. 277; p. 263.
Pipe-bending machine. W. A. Pratt. No. 1,359,525; Nov. 23; v. 280; p. 604.
Pipe-bending mechanism. E. R. Bailey and W. A. McGuire. No. 1,333,369; Mar. 9; v. 272; p. 278.
Pipe-bending mechanism. G. P. McArthur. No. 1,353,168; Sept. 21; v. 278; p. 370.
Pipe-bending mechanism. U. S. Morris. No. 1,342,564; June 8; v. 275; p. 239.
Pipe-bends, serpentines, &c., Method and device for manufacturing. R. H. Böhling. No. 1,353,714; Sept. 21; v. 278; p. 488.
Pipe-blister-removing device. W. Ludwig. No. 1,343,571; June 15; v. 275; p. 500.
Pipe-boiler. T. H. Lee. No. 1,356,162; Oct. 19; v. 279; p. 430.
Pipe-casing. W. E. Hinsdale. No. 1,359,802; Nov. 23; v. 280; p. 677.
Pipe-clamp. J. E. Branin. No. 1,343,548; June 15; v. 275; p. 496.
Pipe-clamp. W. Bucker. No. 1,354,087; Sept. 28; v. 278; p. 606.
Pipe-cleaner. C. M. Tallman. No. 1,347,304; July 20; v. 276; p. 511.
Pipe cleaner and sprayer. F. E. Burns. No. 1,351,368; Aug. 31; v. 277; p. 865.
Pipe-clip and forming same. L. H. Dickelmann and J. Kuchler. No. 1,329,268; Jan. 27; v. 270; p. 576.
Pipe-coil. E. A. Russell. No. 1,335,799; Apr. 6; v. 273; p. 18.
Pipe connection. P. P. Theisen. No. 1,341,086; May 25; v. 274; p. 663.
Pipe connection and making same. J. H. Huth. No. 1,345,543; July 6; v. 276; p. 43.
Pipe-connection seal. J. S. Reesman. No. 1,361,615; Dec. 7; v. 281; p. 128.
Pipe connector, Train-. M. A. Barber. No. 1,347,836; July 27; v. 276; p. 673.
Pipe-core machine. H. M. S. Kleyensteuber. No. 1,349,383; Aug. 10; v. 277; p. 296.
Pipe-coupling. F. Dow. No. 1,352,118; Sept. 7; v. 278; p. 78.
Pipe-coupling. J. Fillis. No. 1,354,815; Oct. 5; v. 279; p. 74.
Pipe-coupling. W. H. Fulton. No. 1,329,759; Feb. 3; v. 271; p. 77.
Pipe-coupling. J. Gorman. No. 1,357,974; Nov. 9; v. 280; p. 209.
Pipe-coupling. B. R. Hamby. No. 1,351,645; Aug. 31; v. 277; p. 919.
Pipe-coupling. W. H. Hampson. No. 1,360,033; Nov. 30; v. 280; p. 891.
Pipe-coupling. H. Horiuchi. No. 1,363,320; Dec. 28; v. 281; p. 601.
Pipe-coupling. H. L. Liberty. No. 1,334,806; Mar. 23; v. 272; p. 561.
Pipe-coupling. W. Louden. No. 1,344,914; June 29; v. 275; p. 894.
Pipe-coupling. W. A. McCullar and J. J. Ayraud. No. 1,250,078; Aug. 17; v. 277; p. 504.
Pipe-coupling. J. Reiband. No. 1,347,660; July 27; v. 276; p. 638.
Pipe-coupling. D. Souter. No. 1,332,769; Mar. 2; v. 272; p. 114.
Pipe-coupling. J. Williams. No. 1,353,005; Sept. 14; v. 278; p. 288.
Pipe-coupling. C. E. Yates. No. 1,345,571; July 6; v. 276; p. 48.
Pipe-coupling, Automatic. M. A. Barber. No. 1,347,835; July 27; v. 276; p. 673.
Pipe coupling, Automatic train-. M. A. Barber. No. 1,347,986; July 27; v. 276; p. 703.
Pipe-coupling, Compressed-air. W. O. Vivarttas. No. 1,345,520; July 6; v. 276; p. 38.
Pipe coupling, Fluid-. B. Grenci. No. 1,343,819; June 15; v. 275; p. 550.
Pipe coupling, Metal-. F. W. Erickson. No. 1,352,256; Sept. 7; v. 278; p. 104.
Pipe coupling, Train-. J. E. Forsyth. No. 1,360,031; Nov. 30; v. 280; p. 891.
Pipe coupling, Train-. J. Williams. No. 1,353,006; Sept. 14; v. 278; p. 288.
Pipe coupling, Trim-. J. B. Genin. No. 1,327,031; Jan. 6; v. 270; p. 29.
Pipe-couplings, Method and means for connecting. S. Siegel. No. 1,349,586; Aug. 17; v. 277; p. 409.
Pipe-covering. I. L. Marsh. No. 1,355,083; Oct. 5; v. 279; p. 126.
Pipe-covering. N. and S. Simonovich. No. 1,331,532; Feb. 24; v. 271; p. 529.
Pipe-covering. E. Spicer. No. 1,363,440; Dec. 28; v. 281; p. 622.
Pipe-covering, Flexible. P. C. Jacobs. No. 1,329,409; Feb. 3; v. 271; p. 12.
Pipe-covering, Sectional wooden. C. S. Waldo. No. 1,345,423; July 6; v. 276; p. 19.
Pipe-covering system. W. L. Steffens. (Reissue.) No. 14,970; Oct. 26; v. 279; p. 683.
Pipe-cutter. C. R. Saylor. No. 1,360,803; Nov. 30; v. 280; p. 924.
Pipe-cutter. J. F. Wright. No. 1,339,641; May 11; v. 274; p. 261.
Pipe-cutter attachment. C. Klug. No. 1,330,476; Feb. 10; v. 271; p. 243.
Pipe-cutting die. E. de Teixeira. No. 1,334,232; Mar. 16; v. 272; p. 500.
Pipe-fishing tool. M. W. Bonawitt. No. 1,363,226; Dec. 28; v. 281; p. 582.
Pipe-fitting. H. A. Cumfer. No. 1,349,663; Aug. 17; v. 277; p. 424.
Pipe-fitting. H. Saucke. No. 1,342,825; June 8; v. 275; p. 291.
Pipe-fitting. A. E. Tatro. No. 1,352,102; Sept. 7; v. 278; p. 75.
Pipe-fittings, Tool for heavy. J. Helm. No. 1,357,707; Nov. 2; v. 280; p. 96.
Pipe-flange-turning machine. C. K. Prince. No. 1,349,434; Aug. 10; v. 277; p. 306.
Pipe-flange wrench. J. M. Pukell. No. 1,350,519; Aug. 24; v. 277; p. 637.
Pipe-grip. D. E. Norris. No. 1,341,147; May 25; v. 274; p. 675.
Pipe-grip. S. Stone. No. 1,339,233; May 4; v. 274; p. 108.
Pipe-hanger. L. F. Brewer. No. 1,332,796; Mar. 2; v. 272; p. 119.
Pipe-hanger. J. W. Farley. No. 1,362,244; Dec. 14; v. 281; p. 299.
Pipe-hanger. J. W. Farley. No. 1,362,245; Dec. 14; v. 281; p. 300.
Pipe-holder. J. Heckman. No. 1,327,673; Jan. 13; v. 270; p. 209.
Pipe-joining device. B. C. Shipman. No. 1,352,767; Sept. 14; v. 278; p. 241.
Pipe-joint. H. A. Blanchard. No. 1,334,130; Mar. 16; v. 272; p. 482.
Pipe-joint. C. F. Buente. No. 1,357,311; Nov. 2; v. 280; p. 21.
Pipe-joint. W. H. Flint. No. 1,334,530; Mar. 23; v. 272; p. 603.
Pipe-joint, Flexible. G. J. Thomassen. No. 1,344,834; June 29; v. 275; p. 879.
Pipe-joint, Telescopic. W. C. White. No. 1,334,007; Mar. 16; v. 272; p. 459.
Pipe-joint, Universal. J. B. Knudsen. No. 1,326,939; Jan. 6; v. 270; p. 11.
Pipe-joints, Apparatus for forming. D. H. Wyatt. No. 1,352,571; Sept. 14; v. 278; p. 201.
Pipe-joints, Apparatus for testing. A. Svenson. No. 1,354,925; Oct. 5; v. 279; p. 95.
Pipe-joints, Unscrewing device for. C. R. Edward. No. 1,334,487; Mar. 23; v. 272; p. 595.
Pipe-line. F. Urbina. No. 1,344,821; June 22; v. 275; p. 712.
Pipe-lock. E. Bakley. No. 1,347,833; July 27; v. 276; p. 672.
Pipe-lock. L. M. Lanning. No. 1,359,900; Nov. 23; v. 280; p. 679.
Pipe, Method and apparatus for manufacture of. A. A. Pauly. No. 1,363,912; Dec. 28; v. 281; p. 714.
Pipe, Method of and apparatus for making butt-weld. J. Sneddon. No. 1,351,348; Aug. 31; v. 277; p. 861.
Pipe-molds, Gas-burner for. L. R. Lemoine. No. 1,351,770; Sept. 7; v. 278; p. 11.
Pipe-molds, Method of and apparatus for charging rotating. J. B. Ladd. No. 1,351,767; Sept. 7; v. 278; p. 10.
Pipe or conduit mold. D. D. Tracy. No. 1,329,730; Feb. 3; v. 271; p. 72.
Pipe-puller. S. Robichaux and C. Paggi. No. 1,342,870; June 8; v. 275; p. 300.
Pipe-puller. J. T. Simmons. No. 1,340,676; May 18; v. 274; p. 514.
Pipe-rack. W. S. Caskey. No. 1,355,040; Oct. 19; v. 279; p. 405.
Pipe-sections, Lock-seam for. L. B. Smith. No. 1,356,022; Oct. 19; v. 279; p. 402.
Pipe, silt-deflector and filter, Service-water-. J. W. Brenkert. No. 1,355,306; Oct. 12; v. 279; p. 223.
Pipe-sleeve. B. Mancuso. No. 1,350,615; Aug. 24; v. 277; p. 656.
Pipe-standard. J. H. Keller. No. 1,331,930; Feb. 24; v. 271; p. 605.
Pipe structure. F. Dow. No. 1,350,073; Aug. 17; v. 277; p. 503.
Pipe-support. C. A. Londelius, Jr. No. 1,334,545; Mar. 23; v. 272; p. 606.
Pipe-supporting means. C. M. Buller. No. 1,339,547; May 11; v. 274; p. 243.
Pipe-testing and leak-finding device. P. Meyer. No. 1,340,176; May 18; v. 274; p. 420.
Pipe-thawing apparatus. W. S. Darley. No. 1,361,023; Dec. 7; v. 281; p. 8.

Digitized by Google

Pipe-threading apparatus. O. O. Adkins. No. 1,363,213; Dec. 28; v. 281; p. 579.
Pipe-threading machine. L. Zajac. No. 1,349,646; Aug. 17; v. 277; p. 421.
Pipe-turner. J. Becker. No. 1,343,300; June 15; v. 275; p. 447.
Pipe-union. M. A. Barber. No. 1,347,834; July 27; v. 276; p. 673.
Pipe-union, Swiveled. W. H. Fulton. No. 1,329,760; Feb. 3; v. 271; p. 77.
Pipe-vise. J. L. Dillon. No. 1,353,568; Sept. 21; v. 185; p. 458.
Pipe-welding machine. F. Y. Pearne, E. A. Tomkewitz, and P. M. Hansen. No. 1,330,765; Feb. 10; v. 271; p. 297.
Pipe-working tools, Centering device for. I. W. Nonneman. No. 1,355,248; Oct. 12; v. 279; p. 211.
Pipe-wrench. J. W. and I. W. Bauman. No. 1,332,157; Feb. 24; v. 271; p. 646.
Pipe-wrench. E. Bowen. No. 1,354,722; Oct. 5; v. 279; p. 55.
Pipe-wrench. H. Carlson. No. 1,332,103; Feb. 24; v. 271; p. 637.
Pipe-wrench. G. Cazenave. No. 1,361,749; Dec. 7; v. 281; p. 154.
Pipe-wrench. F. A. Devereaux. No. 1,354,538; Oct. 5; v. 279; p. 18.
Pipe-wrench. R. H. Fulton. No. 1,327,595; Jan. 6; v. 270; p. 133.
Pipe-wrench. S. N. Hall. No. 1,333,251; Mar. 9; v. 272; p. 256.
Pipe-wrench. J. H. Hall. No. 1,355,470; Oct. 12; v. 279; p. 254.
Pipe-wrench. A. W. Kiefer. No. 1,353,246; Sept. 21; v. 278; p. 394.
Pipe-wrench. G. C. Lawson. No. 1,362,014; Dec. 14; v. 281; p. 254.
Pipe-wrench. J. E. Lenbolt. No. 1,328,744; Jan. 20; v. 270; p. 447.
Pipe-wrench. C. G. Martindale. No. 1,335,252; Mar. 30; v. 272; p. 799.
Pipe-wrench. J. D. Nixon. No. 1,338,461; Apr. 27; v. 273; p. 726.
Pipe-wrench. I. W. Nonneman. No. 1,340,622; May 18; v. 274; p. 504.
Pipe-wrench. A. Partin. No. 1,359,421; Nov. 16; v. 280; p. 539.
Pipe-wrench. R. B. Shook. No. 1,342,356; June 1; v. 275; p. 145.
Pipe-wrench. A. Tüscher, Jr. No. 1,340,092; May 11; v. 274; p. 345.
Pipe-wrench. B. Watts. (Reissue.) No. 14,791; Jan. 18; v. 270; p. 320.
Pipe-wrench. W. Zadorozny. No. 1,336,710; Apr. 13; v. 273; p. 250.
Pipe-wrench, Adjustable. J. Shaffer. No. 1,346,983; July 20; v. 276; p. 948.
Pipe-wrench, Chain. G. W. Bufford. No. 1,327,309; Jan. 6; v. 270; p. 80.
Pipe-wrench, Ratchet. W. E. Bell. No. 1,345,983; July 6; v. 276; p. 130.
Pipes, Antifreezing appliance for water-. T. A. Davis. No. 1,328,649; Jan. 20; v. 270; p. 430.
Pipes, Apparatus for and method of clearing service-. R. L. Dezendorf. No. 1,328,726; Jan. 20; v. 270; p. 444.
Pipes, Apparatus for cleaning. O. H. Singletary. No. 1,331,681; Feb. 24; v. 271; p. 558.
Pipes, Ascertaining the location of leaks in underground fluid-pressure. G. V. Payne. No. 1,358,779; Nov. 16; v. 280; p. 414.
Pipes, bars, angles, &c., Method and apparatus for coating. E. L. Watrous. No. 1,346,618; July 13; v. 276; p. 316.
Pipes, Clip for stopping leakage in damaged. T. D. Meredith. No. 1,343,463; June 15; v. 275; p. 478.
Pipes, Coupling for air-brake. J. A. Stoltman. No. 1,363,287; Dec. 28; v. 281; p. 594.
Pipes, Coupling for railway-train. E. A. Schreiber. No. 1,351,875; Sept. 7; v. 278; p. 82.
Pipes exposed to high temperatures, Protecting metal. L. B. Skinner. No. 1,350,268; Aug. 17; v. 277; p. 541.
Pipes, Fluid-tight joint for steam-. T. G. Tulloch. No. 1,339,636; May 11; v. 274; p. 260.
Pipes, Hose pressure applicable to pressure and vacuum brake. E. Kessler. No. 1,343,084; June 8; v. 275; p. 342.
Pipes, Locating leaks in underground. G. V. Payne. No. 1,358,778; Nov. 16; v. 280; p. 414.
Pipes, Means for joining the abutting ends of. W. R. Hume. No. 1,357,870; Nov. 2; v. 280; p. 128.
Pipes, Repair-plug for. G. T. Harvey. No. 1,340,167; May 18; v. 274; p. 418.
Pipes, Roof connection for vent-. E. E. Coar. No. 1,352,248; Sept. 7; v. 278; p. 103.
Pipes, Machine for threading. J. A. Reese. No. 1,343,158; June 8; v. 275; p. 356.
Pipes to headers, Means of securing. B. Broido. No. 1,363,713; Dec. 28; v. 281; p. 676.
Pipes, Water-submerged air-chamber for water-. H. H. York. No. 1,342,491; June 8; v. 275; p. 224.
Pipettes, Holder and carrier for blood-. T. Lidberg. No. 1,340,660; May 18; v. 274; p. 511.
Piping. C. M. Buller. No. 1,343,706; June 15; v. 275; p. 527.
Piping-stem. H. and H. Jacobs. No. 1,360,644; Nov. 30; v. 280; p. 894.
Piping system. S. W. Miller. No. 1,338,994; May 4; v. 274; p. 63.
Pipings and using same, Device for filling cushion-. E. C. Farr. No. 1,334,745; Mar. 23; v. 272; p. 643.
Pistol. L. M. Egts. No. 1,339,949; May 11; v. 274; p. 319.
Pistol. F. W. Fullerton. No. 1,357,393; Nov. 2; v. 280; p. 37.
Pistol. G. S. Lewis. No. 1,338,381; Apr. 27; v. 273; p. 711.
Pistol. H. L. Welch. No. 1,340,127. May 11; v. 274; p. 353.
Pistol, Automatic. J. O. Croy. No. 1,360,188; Nov. 23; v. 280; p. 735.
Pistol, Automatic. J. N. H. J. Guyot. No. 1,344,884; June 29; v. 275; p. 888.
Pistol, Gaslighting-. G. C. Fuller. No. 1,358,722; Nov. 16; v. 280; p. 403.
Pistol-light. C. Blamfield. No. 1,327,585; Jan. 6; v. 270; p. 132.
Pistols and similar firearms, Safety means for automatic. B. A. B. Rydberg. No. 1,355,067; Oct. 5; v. 279; p. 123.
Pistols, Magazine for automatic. R. H. Chase. No. 1,351,370; Aug. 31; v. 277; p. 866.
Pistols, Slide-bushing for. C. C. Loomis. No. 1,348,284; Aug. 3; v. 277; p. 31.
Piston. W. H. Brace. No. 1,355,030; Oct. 5; v. 279; p. 115.
Piston. T. P. Chase. No. 1,356,695; Oct. 26; v. 279; p. 581.
Piston. J. B. Davis. No. 1,347,082; July 20; v. 276; p. 467.
Piston. J. Flammang. No. 1,336,690; Apr. 13; v. 273; p. 247.
Piston. J. Flammang. No. 1,336,691; Apr. 13; v. 273; p. 247.
Piston. J. Flammang. No. 1,348,988; Aug. 10; v. 277; p. 218.
Piston. J. Flammang. No. 1,351,238; Aug. 31; v. 277; p. 838.
Piston. J. Flammang. No. 1,351,239; Aug. 31; v. 277; p. 838.
Piston. J. Flammang. No. 1,363,725; Dec. 28; v. 281; p. 678.
Piston. A. J. Golata and L. L. Roberts. No. 1,329,238; Jan. 27; v. 270; p. 570.
Piston. F. G. Haas. No. 1,332,213; Mar. 2; v. 272; p. 7.
Piston. F. Hachmann. No. 1,353,041; Sept. 14; v. 278; p. 294.
Piston. F. Konyvka. No. 1,352,460; Sept. 14; v. 278; p. 178.
Piston. J. McKechnie and J. P. Clear. No. 1,331,573; Feb. 24; v. 271; p. 537.
Piston. W. J. Miller. No. 1,328,182; Jan. 13; v. 270; p. 305.
Piston. R. L. Moock. No. 1,335,179; Mar. 30; v. 272; p. 786.
Piston. A. Neraas. No. 1,362,435; Dec. 14; v. 281; p. 336.
Piston. A. Nitka. No. 1,345,221; June 29; v. 275; p. 951.
Piston. R. Saitta. No. 1,332,760; Mar. 2; v. 272; p. 112.
Piston. J. Wagner. No. 1,355,519; Oct. 12; v. 279; p. 264.
Piston and its connecting-rod, Articulation between a. M. J. B. Barbarou. No. 1,331,555; Feb. 24; v. 271; p. 533.
Piston and making same. C. P. Hollister. No. 1,362,313; Dec. 14; v. 281; p. 313.
Piston and piston-ring. H. B. Johnson. No. 1,330,188; Feb. 10; v. 271; p. 189.
Piston and piston-ring. H. B. Johnston. No. 1,330,189; Feb. 10; v. 271; p. 190.
Piston and piston-ring. H. B. Johnston. No. 1,333,023; Mar. 9; v. 272; p. 213.
Piston and piston-ring. H. B. Johnston. No. 1,335,339; Mar. 30; v. 272; p. 816.
Piston and piston-ring. M. H. Sullivan. No. 1,364,005; Dec. 28; v. 281; p. 732.
Piston and rings therefor. M. C. Hutchinson. No. 1,348,998; Aug. 10; v. 277; p. 220.
Piston-centering device. J. A. Scott. No. 1,340,841; May 18; v. 274; p. 544.
Piston-chuck. A. Raison and T. A. Burgess. No. 1,361,773; Dec. 7; v. 281; p. 159.
Piston, Composite. E. E. Allyne. No. 1,329,820; Feb. 3; v. 271; p. 89.
Piston, Composite. J. E. Diamond. No. 1,357,851; Nov. 2; v. 280; p. 124.
Piston-connecting rod, Ball-joint-. F. J. Stenger. No. 1,350,747; Aug. 24; v. 277; p. 681.
Piston, Engine-. A. P. Brush. No. 1,338,169; Apr. 27; v. 273; p. 671.
Piston-head. F. Ellers. No. 1,337,982; Apr. 20; v. 273; p. 567.
Piston-head, Sectionalized. A. W. Wall. No. 1,359,130; Nov. 16; v. 280; p. 481.

Digitized by Google

Alphabetical list of inventions—Continued.

Piston, Heated. A. D. Skinner. No. 1,356,943; Oct. 26; v. 279; p. 629.
Piston-packing. G. Christenson. No. 1,363,565; Dec. 28; v. 281; p. 648.
Piston packing-ring. J. P. Deranek. No. 1,340,650; May 18; v. 274; p. 509.
Piston packing-ring. R. I. Erlichman. No. 1,354,287; Sept. 28; v. 278; p. 647.
Piston packing-ring. O. W. Hanson. No. 1,344,342; June 22; v. 275; p. 717.
Piston, Pump-. G. A. Humason. No. 1,327,914; Jan. 18; v. 270; p. 255.
Piston-push-rod holder. P. Maltry and W. T. Heckler. No. 1,328,092; Jan. 13; v. 270; p. 288.
Piston-ring. O. W. Anderson. No. 1,336,670; Apr. 13; v. 273; p. 242.
Piston-ring. H. T. Andrew. No. 1,356,183; Oct. 19; v. 279; p. 435.
Piston-ring. E. Beecher. No. 1,348,146; Aug. 3; v. 277; p. 8.
Piston-ring. R. L. Burd. No. 1,356,258; Oct. 19; v. 279; p. 449.
Piston-ring. F. R. Carr. No. 1,351,369; Aug. 31; v. 277; p. 865.
Piston-ring. G. H. Chandlee. No. 1,360,498; Nov. 30; v. 280; p. 865.
Piston-ring. F. Deutsch and J. H. Riedling. No. 1,360,733; Nov. 30; v. 280; p. 911.
Piston-ring. E. P. Ekman. No. 1,363,239; Dec. 28; v. 281; p. 585.
Piston-ring. C. H. Foltmer. No. 1,348,274; Aug. 3; v. 277; p. 29.
Piston-ring. M. S. Gill. No. 1,354,547; Oct. 5; v. 279; p. 20.
Piston-ring. M. S. Gill. No. 1,354,548; Oct. 5; v. 279; p. 21.
Piston-ring. F. Hachmann. No. 1,342,380; June 1; v. 275; p. 149.
Piston-ring. F. Hachmann. No. 1,348,640; Aug. 3; v. 277; p. 99.
Piston-ring. F. Hachmann. No. 1,348,641; Aug. 3; v. 277; p. 99.
Piston-ring. S. J. Hall. No. 1,360,939; Nov. 30; v. 280; p. 950.
Piston-ring. S. D. Hartog. No. 1,337,651; Apr. 20; v. 273; p. 503.
Piston-ring. C. K. Hill. No. 1,359,596; Nov. 23; v. 280 p. 618.
Piston-ring. R. M. Jordan. No. 1,343,828; June 15; v. 275; p. 552.
Piston-ring. J. Kelly. No. 1,360,535; Nov. 30; v. 280; p. 872.
Piston-ring. H. P. Maloney. No 1,355,237; Oct. 12; v. 279; p. 209.
Piston-ring. J. Marsh. No. 1,330,381; Feb. 10; v. 271; p. 225.
Piston-ring. L. C. Marshall. No. 1,361,393; Dec. 7; v. 281; p. 82.
Piston-ring. C. W. Moore. No. 1,328,289; Jan. 20; v. 270; p. 362.
Piston-ring. J. T. Murray. No. 1,346,237; July 13; v. 276; p. 241.
Piston-ring. J. E. Norwood. (Reissue.) No. 14,969; Oct. 26; v. 279; p. 682.
Piston-ring. J. A. Olson. No. 1,357,181; Oct. 26; v. 279; p. 675.
Piston-ring. A. O. Schmolinski. No. 1,363,278; Dec. 28; v. 281; p. 592.
Piston-ring. G. Setter. No. 1,363,281; Dec. 28; v. 281; p. 593.
Piston-ring. F. K. Stehle and C. A. Keffer. No. 1,353,082; Sept. 14; v. 278; p. 302.
Piston-ring. A. Stern. No. 1,350,849; Aug. 24; v. 277; p. 760.
Piston-ring adjuster. R. Hammerly. No. 1,336,222; Apr. 6; v. 273; p. 98.
Piston-ring and mounting therefor. A. K. Schaap. No. 1,357,729; Nov. 2; v. 280; p. 100.
Piston-ring clamp. E. O. Clark. No. 1,350,704; Aug. 24; v. 277; p. 673.
Piston-ring groove. C. R. Clark. No. 1,334,888; Mar. 23; v. 272; p. 671.
Piston-ring grooves, Carbon-scrapers for. O. A. Muller. No. 1,345,215; June 29; v. 275; p. 951.
Piston-ring-hammering machine. W. A. Oubridge. No. 1,336,158; Apr. 6; v. 273; p. 85.
Piston-ring pattern. A. J. Mummert. No. 1,333,212; Mar. 9; v. 272; p. 249.
Piston-ring remover. C. D. Stevens. No. 1,330,750; Feb. 10; v. 271; p. 294.
Piston-ring remover and inserter. C. O. Hammontree and V. A. Nelson. No. 1,337,600; Apr. 20; v. 273; p. 494.
Piston-ring squeezer. L. V. Claire. No. 1,335,367; Mar. 30; v. 272; p. 821.
Piston-ring squeezer. L. V. Claire. No. 1,335,658; Mar. 30; v. 272; p. 876.
Piston-rings, apparatus for manufacturing. F. Ray. No. 1,341,671; June 1; v. 275; p. 11.
Piston-rings, Composition of matter for sealing. J. W. Calta. No. 1,363,563; Dec. 28; v. 281; p. 648.
Piston-rings, Construction of packing for. T. D. Kelly. No. 1,354,404; Sept. 28; v. 278; p. 670.
Piston-rings, Expander for. W. J. McGinniss. No. 1,348,953; Aug. 10; v. 277; p. 211.
Piston-rings, Forming. A. J. H. Kuhsiek. No. 1,328,436; Jan. 20; v. 270; p. 390.
Piston-rings, Machine for manufacturing. H. S. Frank. No. 1,345,000; June 29; v. 275; p. 909.
Piston-rings, Machine for slotting. M. D. Avillar. No. 1,353,558; Sept. 21; v. 278; p. 456.
Piston-rings, Making. G. H. Blettner. No. 1,328,414; Jan. 20; v. 270; p. 386.
Piston-rings, Making. A. A. Fosston. No. 1,340,037; May 11; v. 274; p. 335.
Piston-rings, Making. H. S. Frank. No. 1,337,551; Apr. 20; v. 273; p. 484.
Piston-rings, Making. H. S. Frank. No. 1,353,227; Sept. 21; v. 278; p. 390.
Piston-rings, Making. S. D. Hartog. No. 1,361,989; Dec. 14; v. 281; p. 249.
Piston-rings, Manufacturing. H. S. Frank. No. 1,353,576; Sept. 21; v. 278; p. 460.
Piston-rings, Manufacturing. S. D. Hartog. No. 1,329,271; Jan. 27; v. 270; p. 576.
Piston packing-ring. S. W. Morrow. No. 1,349,728; Aug. 17; v. 277; p. 437.
Piston-rod and crank-shaft, Connection between. W. Buhl. No. 1,349,660; Aug. 17; v. 277; p. 424.
Piston-rod packing-box. A. O. Van Dervort. No. 1,350,046; Aug. 17; v. 277; p. 498.
Piston-rod toggle mechanism. E. Duchesne. No. 1,361,235; Dec. 7; v. 281; p. 50.
Piston, Self-lubricating. T. Rogatchoff. No. 1,330,748; Feb. 10; v. 271; p. 294.
Piston, Steam-heated. A. D. Skinner. No. 1,339,629; May 11; v. 274; p. 259.
Piston-vane. J. D. Carroll. No. 1,354,281; Sept. 28; v. 278; p. 646.
Piston-vanes, Rocker for. J. D. Carroll. No. 1,354,282; Sept. 28; v. 278; p. 646.
Pistons and piston-rods, Connecting means for. L. Sykes. No. 1,339,427; May 11; v. 274; p. 219.
Pistons, Automatic lubricating system for internal-combustion engines. O. J. McGann. No. 1,347,059; July 27; v. 276; p. 697.
Pistons, Chucking device for. S. D. Hartog. No. 1,331,918; Feb. 24; v. 271; p. 603.
Pistons, Making. J. Flammang. No. 1,336,689; Apr. 13; v. 273; p. 246.
Pistons, Making. J. Flammang. No. 1,344,875; June 29; v. 275; p. 886.
Pistons, Making. J. Flammang. No. 1,347,449; July 20; v. 276; p. 539.
Pistons, Making. J. Flammang. No. 1,347,450; July 20; v. 276; p. 539.
Pistons, rams, rods, and the like, Packing device for. A. and A. R. Murray. No. 1,347,351; July 20; v. 276; p. 520.
Pitch and sulfur composition and making same, Bituminous. J. J. White, Jr. No. 1,353,003; Sept. 14; v. 278; p. 287.
Pitchers, Removable top for. D. A. Jenkins. No. 1,344,404; June 22; v. 275; p. 729.
Pitman. J. Warrener, Sr. No. 1,329,645; Feb. 3; v. 271; p. 56.
Pitman connection. E. W. Burgess. No. 1,334,518; Mar. 23; v. 272; p. 601.
Pitman shell-roller. C. E. Ware. No. 1,359,771; Nov. 23; v. 280; p. 653.
Pitting-knife. S. J. Dunkley. No. 1,353,328; Sept. 21; v. 278; p. 410.
Pivot. F. Lee. No. 1,331,113; Feb. 17; v. 271; p. 431.
Pivot. B. Liebowitz. No. 1,335,745; Apr. 6; v. 273; p. 8.
Pivot, Friction-. B. Liebowitz. No. 1,348,020; July 27; v. 276; p. 710.
Pivot, Spring-. E. Bommer. No. 1,332,881; Mar. 9; v. 272; p. 186.
Pivoted joint, Self-locking. C. S. Windsor. No. 1,349,082; Aug. 10; v. 277; p. 227.
Pivoted link. W. L. Shiffer and P. K. Shynder. No. 1,353,134; Sept. 14; v. 278; p. 312.
Plaiting-machine. H. Bischoff. No. 1,345,474; July 6; v. 276; p. 29.
Plaiting-machine. T. E. Clark and C. W. Ward. No. 1,331,486; Feb. 24; v. 271; p. 520.
Plaiting-machine. P. Hardman. No. 1,330,264; Feb. 10; v. 271; p. 203.
Plane. C. Bailey. No. 1,348,923; Aug. 10; v. 277; p. 205.
Plane. W. C. Bowlen. No. 1,342,154; June 1; v. 275; p. 106.
Plane, Carpenter's. R. Allen. No. 1,361,433; Dec. 7; v. 281; p. 91.
Plane, Carpenter's. E. A. Schade. No. 1,331,280; Feb. 17; v. 271; p. 461.
Planes, Adjustable gage for. L. C. Payne. No. 1,341,820; June 1; v. 275; p. 41.
Planes, Depth-gage for fillister or rabbet. J. E. Meed. No. 1,358,969; Nov. 16; v. 280; p. 452.
Planes, Gage attachment for. V. Impalea. No. 1,357,985; Nov. 9; v. 280; p. 211.
Planes when stationary and moving, Modification of. J. T. Patterson. No. 1,344,248; June 22; v. 275; p. 697.

Digitized by Google

Planer, Double-acting metal. C. A. Snider. No. 1,340,256; May 18; v. 274; p. 434.
Planer, Road-. W. S. Foster. No. 1,336,215; Apr. 6; v. 273; p. 97.
Planers and current-controlling system therefor, Electric feed mechanism for. S. P. Johnson. No. 1,342,915; June 8; v. 275; p. 308.
Planers, Feed mechanism for. H. L. Blood. No. 1,350,540; Aug. 24; v. 277; p. 641.
Planers, Lubricating system for. G. E. Greenleaf. No. 1,350,309; Aug. 24; v. 277; p. 595.
Planing and finishing machine, Road. O. E. Moats. No. 1,335,906; Apr. 6; v. 273; p. 38.
Planing-machine. A. E. Folsom. No. 1,333,710; Mar. 16; v. 272; p. 403.
Planing-machine. O. L. Stadig. No. 1,337,286; Apr. 20; v. 273; p. 434.
Planing-machine. Portable. F. L. Forward. No. 1,337,850; Apr. 20; v. 273; p. 447.
Planographic-plate grainer. W. H. Long. No. 1,346,501; July 13; v. 276; p. 293.
Plansifter. E. Roth and J. Steiner. No. 1,359,848; Nov. 23; v. 280; p. 666.
Plant and shrubbery support, Folding. J. A. Hunt. No. 1,361,464; Dec. 7; v. 281; p. 98.
Plant-cap-applying device. W. R. Schindler. No. 1,357,523; Nov. 2; v. 280; p. 61.
Plant for the manufacture of machinery, &c. W. H. Morgan. No. 1,333,992; Mar. 16; v. 292; p. 456.
Plant-setting implement. G. F. Church. No. 1,363,176; Dec. 21; v. 281; p. 532.
Plant-stand. D. F. Loudon. No. 1,336,307; Apr. 6; v. 273; p. 114.
Plant-support. H. W. Koerner. No. 1,359,388; Nov. 16; v. 280; p. 532.
Plant-support. J. J. Stanley. No. 1,337,803; Apr. 20; v. 273; p. 532.
Plant-supporting clip. W. F. Buschardt. No. 1,338,612; Apr. 27; v. 273; p. 754.
Plants, Growing. E. Miller. No. 1,353,931; Sept. 28; v. 278; p. 574.
Plants, Means for treating. H. H. Hornsby. No. 1,331,261; Feb. 17; v. 271; p. 458.
Planter. W. W. Barrett. No. 1,336,124; Apr. 6; v. 273; p. 80.
Planter. M. N. Carlisle. No. 1,347,441; July 20; v. 276; p. 538.
Planter. E. W. Cole. No. 1,339,688; May 11; v. 274; p. 270.
Planter. H. L. Dooley. No. 1,328,780; Jan. 20; v. 270; p. 444.
Planter. J. T. Germain. No. 1,361,043; Dec. 7; v. 281; p. 12.
Planter. J. Haines. No. 1,354,039; Sept. 28; v. 278; p. 596.
Planter. J. C. Hanson and J. L. Daus. No. 1,332,830; Mar. 2; v. 272; p. 125.
Planter. H. Jones. No. 1,358,747; Nov. 16; v. 280; p. 408.
Planter. F. H. Schutter. No. 1,343,286; June 15; v. 275; p. 444.
Planter attachment. G. D. Griffice. No. 1,328,375; Jan. 20; v. 270; p. 378.
Planter attachment. W. F. Sanders. No. 1,332,577; Mar. 2; v. 272; p. 77.
Planter, Checkrow-. J. W. Gibson. No. 1,331,102; Feb. 17; v. 271; p. 480.
Planter, Checkrow corn-. J. W. McNeal. No. 1,353,927; Sept. 28; v. 278; p. 573.
Planter, Corn-. E. W. Burgess. No. 1,359,028; Nov. 16; v. 280; p. 463.
Planter, Corn-. J. F. Foncannon. No. 1,329,964; Feb. 3; v. 271; p. 116.
Planter, Corn-. J. A. Henebergh. No. 1,330,586; Feb. 10; v. 271; p. 263.
Planter, Corn-. F. Hevel, G. C. Harrington, and W. Hevel. No. 1,348,130; July 27; v. 276; p. 732.
Planter, Corn-. J. C. Powers. No. 1,339,576; May 11; v. 274; p. 248.
Planter, Corn-. E. H. Tomey. No. 1,331,222; Feb. 17; v. 271; p. 451.
Planter, Corn or bean. J. Grzybowski. No. 1,362,569; Dec. 14; v. 281; p. 362.
Planter, Cotton-. H. B. Barfield. No. 1,362,834; Dec. 21; v. 281; p. 466.
Planter depth-gage. H. Pieper. No. 1,330,608; Feb. 10; v. 271; p. 267.
Planter, Hand potato-. T. Shaffer. No. 1,358,587; Nov. 9; v. 280; p. 331.
Planter-lifting device. E. H. Snyder. No. 1,352,634; Sept. 14; v. 278; p. 213.
Planter-marker. O. L. Shadford. No. 1,346,063; July 6; v. 276; p. 145.
Planter, Peanut-. J. A. Harnsberger. No. 1,331,341; Feb. 17; v. 271; p. 473.
Planter, Potato-. H. J. H. Lafleche. No. 1,354,202; Sept. 28; v. 278; p. 629.
Planter, Potato-. F. W. Lee. No. 1,353,356; Sept. 21; v. 278; p. 415.
Planter, Potato-seed. W. R. Towne. No. 1,327,971; Jan. 13; v. 270; p. 265.
Planter, Seed-. C. V. Barnhart. No. 1,357,438; Nov. 2; v. 280; p. 45.
Planter, Seed-. S. K. Dennis. No. 1,327,089; Jan. 6; v. 270; p. 40.
Planter, Seed-. O. H. Dodd. No. 1,333,891; Mar. 9; v. 272; p. 282.
Planter, Seed-. G. F. Johnson. No. 1,344,764; June 29; v. 275; p. 865.
Planter, Seed-. L. Willis and O. F. Woodworth. No. 1,327,455; Jan. 6; v. 270; p. 106.
Planters, Clutch mechanism for corn-. S. K. Dennis. No. 1,327,090; Jan. 6; v. 270; p. 40.
Planters, Drag for. J. Cass. No. 1,345,532; July 6; v. 276; p. 41.
Planters, Markers for. O. H. Kohlhaas. No. 1,349,462; Aug. 10; v. 277; p. 311.
Planters, Marker for corn-. F. Hanson. No. 1,363,412; Dec. 28; v. 281; p. 617.
Planters, Seed spacing and dropping mechanism for. J. E. Paulson. No. 1,328,846; Jan. 27; v. 270; p. 496.
Planters, Tappet-wheel for. C. L. Heath. No. 1,350,997; Aug. 24; v. 277; p. 728.
Planting-stick. W. A. Gamble. No. 1,327,030; Jan. 6; v. 270; p. 29.
Plaster-block machine. E. H. Pipe. No. 1,337,618; Apr. 20; v. 273; p. 497.
Plaster-board. L. E. Armstrong and H. B. Brockenbrough. No. 1,347,487; July 27; v. 276; p. 603.
Plaster-board. C. R. Birdsey. No. 1,358,508; Nov. 9; v. 280; p. 315.
Plaster-board. J. Schumacher. No. 1,333,579; Mar. 9; v. 272; p. 318.
Plaster-board. J. and J. E. Schumacher. No. 1,327,446; Jan. 6; v. 270; p. 105.
Plaster-board and making same. J. Schumacher. No. 1,352,390; Sept. 7; v. 278; p. 129.
Plaster-board, Apparatus for trimming. J. and J. E. Schumacher. No. 1,329,634; Feb. 3; v. 271; p. 54.
Plaster-board, Machine for fabricating. J. F. Makowski. No. 1,349,777; Aug. 17; v. 277; p. 446.
Plaster-board, Machine for making. J. Schumacher. No. 1,351,264; Aug. 31; v. 277; p. 843.
Plaster-board, Machine for making. C. W. Utsman. No. 1,330,418; Feb. 10; v. 271; 231.
Plaster-board, Machine for transporting and drying. O. L. Routt, G. C. McConnell, and H. L. Glaze. No. 1,346,339; July 13; v. 276; p. 262.
Plaster-board, Making. M. K. Armstrong. No. 1,348,387; Aug. 3; v. 277; p. 51.
Plaster-board, Means for crating. J. H. Nold. No. 1,354,509; Oct. 5; v. 279; p. 12.
Plaster-board, Means for making. O. L. Routt. No. 1,348,898; Aug. 10; v. 277; p. 200.
Plaster-board, Method of and machine for handling. O. L. Routt, G. C. McConnell, and J. H. L. Glaze. No. 1,342,185; June 1; v. 275; p. 118.
Plaster-board of fibrous material. T. B. Munroe. No. 1,333,628; Mar. 16; v. 272; p. 387.
Plaster-board, Trimming and subdividing. J. Schumacher. No. 1,358,340; Nov. 9; v. 280; p. 281.
Plaster gage and reinforcement. A. Albinson. No. 1,346,437; July 13; v. 276; p. 281.
Plaster gage and reinforcement. A. Albinson. No. 1,357,018; Oct. 26; v. 279; p. 644.
Plasterers' hawks, Resilient support for. E. J. Peck. No. 1,348,516; Aug. 3; v. 277; p. 75.
Plastic. M. Mayer and J. N. and J. D. Wiggin. No. 1,360,130; Nov. 23; v. 280; p. 724.
Plastic and similar substances, Mold for. R. H. Kirk. No. 1,345,932; July 6; v. 276; p. 120.
Plastic articles, Machine for forming. E. E. Claussen. No. 1,359,489; Nov. 23; v. 280; p. 597.
Plate-bending machine. A. M. Meyers. No. 1,345,386; July 6; v. 276; p. 12.
Plastic-block mold. E. J. Luttrell. No. 1,339,270; May 4; v. 274; p. 114.
Plastic composition. H. H. Dow. No. 1,339,552; May 11; v. 274; p. 244.
Plastic composition. G. Ey. No. 1,361,759; Dec. 7; v. 281; p. 156.
Plastic composition. A. L. V. Nilsson. No. 1,344,058; June 22; v. 275; p. 662.
Plastic composition. F. Richard and F. M. Brady. No. 1,329,094; Jan. 27; v. 270; p. 543.
Plastic composition. E. R. Stowell. No. 1,364,004 Dec. 28; v. 281; p. 732.
Plastic composition. J. M. Weiss. No. 1,334,061; Mar. 16; v. 272; p. 469.
Plastic, Making a refractory. E. R. Stowell. No. 1,327,448; Jan. 6; v. 270; p. 105.
Plastic material, Apparatus for building up plies of F. A. Steele. No. 1,363,441; Dec. 28; v. 281; p. 622.
Plastic material in containers, Means for indicating level of. P. R. Weitzel. No. 1,337,029; Apr. 13; v. 273; p. 312.
Plastic material in containers, Means for indicating level of. P. R. Weitzel. No. 1,337,030; Apr. 13; v. 273; p. 312.
Plastic material, Machine for turning. E. A. Fries. No. 1,352,443; Sept. 14; v. 278; p. 175.
Plastic material practically incombustible, strong, and possessing insulating properties. D. Motta. No. 1,331,519; Feb. 24; v. 271; p. 527.
Plastic materials, Apparatus for molding. G. R. Trevillian. No. 1,342,192; June 1; v. 275; p. 114.

Alphabetical list of inventions—Continued.

Plastic mixture and making same. M. K. Armstrong. No. 1,331,554; Feb. 24; v. 271; p. 583.
Plastic mold. M. R. Jester. No. 1,337,074; Apr. 13; v. 273; p. 320.
Plastics, Shaping vulcanizable. W. J. Kent. No. 1,332,847; Mar. 2; v. 272; p. 128.
Plastic surface covering. G. C. Glynn. No. 1,348,278; Aug. 3; v. 277; p. 30.
Plastics, Treating vulcanizable. J. J. Shea. No. 1,343,377; June 15; v. 275; p. 462.
Plate, Adjustable aperture-. J. R. Hunt. No. 1,357,983; Nov. 9; v. 280; p. 211.
Plate, Ceiling and floor. A. C. Gaynor. No. 1,335,730; Apr. 6; v. 273; p. 5.
Plate-clamp. J. White. No. 1,345,300; June 29; v. 275; p. 968.
Plate-clamp, Shifting. J. R. Blaine. No. 1,350,488; Aug. 24; v. 277; p. 631.
Plate-cleaning machine. H. Fiorentini. No. 1,331,984; Feb. 24; v. 271; p. 615.
Plate-curing machine, Composite-. D. A. Dickey. No. 1,361,970; Dec. 14; v. 281; p. 245.
Plate-fastening device. E. H. Hamilton. No. 1,350,223; Aug. 17; v. 277; p. 532.
Plate-forming machine. M. O. Rehfuss. No. 1,341,589; May 25; v. 274; p. 760.
Plate-lifter. L. R. Turner, Sr. No. 1,357,131; Oct. 26; v. 279; p. 667.
Plate, Handhole-. J. A. Woods. No. 1,336,012; Apr. 6; v. 273; p. 58.
Plate-lifter. E. B. Kilian. No. 1,341,371; May 25; v. 274; p. 718.
Plate-lifting device. V. C. Graves. No. 1,337,450; Apr. 20; v. 273; p. 465.
Plate-manipulator. F. C. Biggert, Jr. No. 1,340,594; May 18; v. 274; p. 499.
Plate or dish holder. S. H. Milne. No. 1,358,231; Nov. 9; v. 280; p. 259.
Plate-puller. S. R. Gilmore. No. 1,336,291; Apr. 6; v. 273; p. 111.
Plate tightener and fastener. F. A. Garner. No. 1,355,327; Oct. 12; v. 279; p. 227.
Plates, Machine for hardening. C. C. Olson. No. 1,337,465; Apr. 20; v. 273; p. 468.
Plates, Securing. J. H. Gravell. No. 1,330,800; Feb. 17; v. 271; p. 371.
Platen. H. H. McIntire. No. 1,349,384; Aug. 10; v. 277; p. 296.
Platen-press gage. W. H. Boser. No. 1,333,829; Mar. 16; v. 272; p. 425.
Platform. T. A. Sindelar. No. 1,334,409; Mar. 23; v. 272; p. 581.
Platform and mud-guard. A. R. Sandt, C. F. Walz, and M. L. Stahl. No. 1,337,275; Apr. 20; v. 273; p. 482.
Platform, Bathing-. G. W. Lilly. No. 1,358,680; Nov. 9; v. 280; p. 350.
Platform, Movable. A. H. Levene. No. 1,336,973; Apr. 13; v. 273; p. 301.
Platform or staircase apparatus for purposes of amusement or diversion, Moving. T. Heffernan. No. 1,354,744; Oct. 5; v. 279; p. 59.
Platform, Portable. G. E. Nelson. No. 1,331,121; Feb. 17; v. 271; p. 433.
Platinum and other metals from their ores, Extracting. S. S. Sadtler. No. 1,358,248; Nov. 9; v. 280; p. 262.
Platinum and similar metals from their sands and ores, Extracting. R. Thayer. No. 1,341,686; June 1; v. 275; p. 14.
Platinum and similar metals from their sands and ores, Extraction of. R. Thayer. No. 1,355,186; Oct. 12; v. 279; p. 199.
Platinum substitute in electrical terminals, Composition of matter for. F. A. Fahrenwald. No. 1,399,505; May 11; v. 274; p. 235.
Playground apparatus. E. L. Senseman and A. P. Zeigler. No. 1,344,725; June 29; v. 275; p. 857.
Pleasure-machine. H. Wilkens. No. 1,334,727; Mar. 23; v. 272; p. 640.
Pliers. S. E. Aaron. No. 1,329,155; Jan. 27; v. 270; p. 554.
Pliers. W. S. Bowers. No. 1,333,243; Mar. 9; v. 272; p. 254.
Pliers. L. E. Cummins. No. 1,331,246; Feb. 17; v. 271; p. 456.
Pliers. H. T. Duket. No. 1,346,306; July 13; v. 276; p. 255.
Pliers. L. D. Fowler. No. 1,344,629; June 29; v. 275; p. 839.
Pliers. E. A. Ironside. No. 1,336,464; Apr. 13; v. 273; p. 203.
Pliers. D. F. Lynch. No. 1,331,443; Feb. 17; v. 271; p. 492.
Pliers. R. H. Owen. No. 1,341,193; May 25; v. 274; p. 684.
Pliers. D. B. Swickard. No. 1,345,035; June 29; v. 275; p. 916.
Pliers. R. Whitaker, Jr. No. 1,346,392; July 13; v. 276; p. 271.
Pliers, Finishing and burnishing. L. R. Smith. No. 1,352,552; Sept. 14; v. 278; p. 197.
Pliers, Parallel-jaw. A. Mae. No. 1,351,668; Aug. 31; v. 277; p. 924.
Pliers, Screw-belt. S. A. Dorsey. No. 1,333,475; Mar. 9; v. 272; p. 298.
Pliers, Sewing-. J. and S. Ptacek. No. 1,352,508; Sept. 14; v. 278; p. 188.
Pliers, Sheet-metal. W. F. Hobbs. No. 1,332,726; Mar. 2; v. 272; p. 105.
Pliers, Universal dental. W. G. Bridge. No. 1,341,107; May 25; v. 274; p. 667.
Pliers, Wire-stripping. S. E. Aaron. No. 1,354,365; Sept. 28; v. 278; p. 662.
Pliers, wrench, and the like. A. C. Allan. No. 1,337,986; Apr. 27; v. 273; p. 637.
Plow. G. Alford. No. 1,355,375; Oct. 12; v. 279; p. 236.
Plow. J. B. Bartholomew. No. 1,359,859; Nov. 23; v. 280; p. 670.
Plow. J. B. Bartholomew. No. 1,359,860; Nov. 23; v. 280; p. 670.
Plow. W. Beaver. No. 1,360,491; Nov. 30; v. 280; p. 863.
Plow. J. T. Campbell. No. 1,335,276; Mar. 30; v. 272; p. 803.
Plow. S. J. Coatney. No. 1,333,203; Mar. 9; v. 272; p. 246.
Plow. W. F. Cochran. No. 1,346,701; July 13; v. 276; p. 333.
Plow. F. E. Davis and D. A. Biebinger. No. 1,338,559; Apr. 27; v. 273; p. 744.
Plow. J. J. Fortuna. No. 1,331,636; Feb. 24; v. 271; p. 549.
Plow. M. C. French. No. 1,333,969; Mar. 16; v. 272; p. 451.
Plow. M. C. French. No. 1,333,970; Mar. 16; v. 272; p. 451.
Plow. F. J. Fries. No. 1,361,454; Dec. 7; v. 281; p. 96.
Plow. D. L. Healy. No. 1,359,371; Nov. 16; v. 280; p. 529.
Plow. M. B. Heller. No. 1,331,502; Feb. 24; v. 271; p. 524.
Plow. W. H. Henderson. No. 1,360,636; Nov. 30; v. 280; p. 892.
Plow. W. T. Herndon. No. 1,351,850; Sept. 7; v. 278; p. 28.
Plow. S. R. Herring. No. 1,346,751; July 13; v. 276; p. 343.
Plow. E. M. Heylman. No. 1,344,586; June 22; v. 275; p. 765.
Plow. W. V. Hoefen. No. 1,331,200; Feb. 17; v. 271; p. 447.
Plow. A. K. Jones. No. 1,348,219; Aug. 3; v. 277; p. 17.
Plow. E. B. Karn. No. 1,358,158; Nov. 9; v. 280; p. 245.
Plow. R. M. Kelly. No. 1,327,562; Jan. 6; v. 270; p. 127.
Plow. C. Kinney. No. 1,341,182; May 25; v. 274; p. 682.
Plow. W. T. Lilly. No. 1,330,812; Feb. 17; v. 271; p. 373.
Plow. A. C. Lindgren. No. 1,334,543; Mar. 23; v. 272; p. 606.
Plow. A. Mitchell. No. 1,351,782; Sept. 7; v. 278; p. 18.
Plow. A. Moore. No. 1,349,623; Aug. 17; v. 277; p. 416.
Plow. C. W. Mott. No. 1,328,756; Jan. 20; v. 270; p. 450.
Plow. E. W. Paulson. No. 1,358,460; Nov. 9; v. 280; p. 306.
Plow. J. H. Rhomberg. No. 1,335,195; Mar. 30; v. 272; p. 789.
Plow. H. P. Saunderson. No. 1,335,078; Mar. 30; v. 272; p. 767.
Plow. W. N. Springer. No. 1,332,079; Feb. 24; v. 271; p. 633.
Plow. L. W. Stickley. No. 1,345,275; June 29; v. 275; p. 962.
Plow. J. Szidlauskas. No. 1,359,630; Nov. 23; v. 280; p. 265.
Plow. J. R. Tinney. No. 1,330,360; Feb. 10; v. 271; p. 221.
Plow. J. B. Wallace. No. 1,335,212; Mar. 30; v. 272; p. 792.
Plow. W. Wendtland, Sr. No. 1,342,836; June 8; v. 275; p. 293.
Plow. A. O. White. No. 1,337,868; Apr. 20; v. 273; p. 545.
Plow. J. Zbranek. No. 1,346,436; July 13; v. 276; p. 281.
Plow, Agricultural. E. C. Caley and C. C. Wray. No. 1,347,321; July 20; v. 276; p. 514.
Plow and cultivator. J. O. Copeland. No. 1,363,458; Dec. 28; v. 281; p. 626.
Plow and cultivator converting attachment. G. R. Cook. No. 1,348,782; Aug. 3; v. 277; p. 125.
Plow and pulverizer, Combination. E. Matthiensen. No. 1,333,503; Mar. 9; v. 272; p. 303.
Plow and scraper, Combined. G. A. Buckley. No. 1,356,036; Oct. 19; v. 279; p. 404.
Plow and scraper, Combined. F. Hiniker. No. 1,359,376; Nov. 16; v. 280; p. 530.
Plow attachment. J. A. Miller. No. 1,345,869; July 6; v. 276; p. 106.
Plow attachment. H. C. Wermager. No. 1,337,421; Apr. 20; v. 273; p. 460.
Plow, Balance-. D. Y. Wheatley. No. 1,348,404; Aug. 3; v. 277; p. 65.

Digitized by Google

Plow-beam. F. Manning. No. 1,331,446; Feb. 17; v. 271; p. 493.
Plow-beams, Draft-head for. E. G. Hines. No. 1,344,131; June 22; v. 275; p. 675.
Plow-brush. M. C. French. No. 1,362,934; Dec. 21; v. 281; p. 484.
Plow, Bucket. W. Watson. No. 1,339,371; May 4; v. 274; p. 133.
Plow construction. W. Kalicki. No. 1,342,386; June 1; v. 275; p. 150.
Plow construction. W. H. Lee. No. 1,327,921; Jan. 13; v. 270; p. 256.
Plow construction, Gang-. J. H. Davis. No. 1,358,939; Nov. 16; v. 280; p. 446.
Plow, Convertible. E. A. Bailey. No. 1,335,686; Mar. 30; v. 272; p. 871.
Plow, Ditching-. F. A. Reiley. No. 1,356,310; Oct. 19; v. 279; p. 460.
Plow, Gang-. J. B. Bartholomew. No. 1,331,044; Feb. 17; v. 271; p. 419.
Plow, Gang-. C. W. Michael. No. 1,335,123; Mar. 30; v. 272; p. 776.
Plow, Gang-. E. R. Vehrs. No. 1,362,454; Dec. 14; v. 281; p. 339.
Plow, Garden-. L. T. Thomasson. No. 1,353,091; Sept. 14; v. 278; p. 304.
Plow, Garden sidehill-. Z. Dominguez. No. 1,350,923; Aug. 24; v. 277; p. 714.
Plow, harrow, &c. A. Cornell. No. 1,329,582; Feb. 3; v. 271; p. 45.
Plow-hitch. T. G. Eubanks and J. B. Bennett. No. 1,354,288; Sept. 28; v. 278; p. 647.
Plow, Light-tractor gang-. I. A. Weaver. No. 1,342,479; June 8; v. 275; p. 222.
Plow, Lister-. W. S. Graham. No. 1,359,055; Nov. 16; v. 280; p. 468.
Plow, Lister-. A. Holsey. No. 1,362,795; Dec. 21; v. 281; p. 459.
Plow, Lister-. C. E. Thomas. No. 1,335,083; Mar. 30; v. 272; p. 768.
Plow, Motor-. W. T. Bell, W. H. Watson, and L. W. Jones. No. 1,338,550; Apr. 27; v. 273; p. 742.
Plow, Motor-. M. L. Letroteur. No. 1,337,929; Apr. 20; v. 273; p. 557.
Plow, Motor-. R. and L. L. Moser. No. 1,344,708; June 29; v. 275; p. 853.
Plow, Motor-. T. C. Santler. No. 1,338,195; Apr. 27; v. 273; p. 676.
Plow, Motor-driven disk. J. G. Stephenson. No. 1,361,638; Dec. 7; v. 281; p. 133.
Plow or cultivator, Garden. J. G. Lundy. No. 1,340,784; May 18; v. 274; p. 534.
Plow, Power-actuated balance-. C. M. Motte. No. 1,355,409; Oct. 12; v. 279; p. 242.
Plow, Power-lift. L. E. Waterman. No. 1,349,028; Aug. 10; v. 277; p. 226.
Plow, Reversible or sidehill. D. J. Roof. No. 1,332,272; Mar. 2; v. 272; p. 18.
Plow, Rotary. G. A. Currier. No. 1,349,875; Aug. 17; v. 277; p. 465.
Plow, Shovel-. J. Urban. No. 1,331,296; Feb. 17; v. 271; p. 464.
Plow, Shovel or spade. I. Cohen. No. 1,328,918; Jan. 27; v. 270; p. 509.
Plow-shovel, Reversible. C. H. Ingham and W. H. Wilcox. No. 1,340,392; May 18; v. 274; p. 460.
Plow, Sidewalk-. W. G. Jones. No. 1,337,076; Apr. 13; v. 273; p. 321.
Plow structure. C. J. White. No. 1,359,850; Nov. 23; v. 280; p. 669.
Plow, Subsoiler-. H. F. Towner. No. 1,362,155; Dec. 14; v. 281; p. 281.
Plow subsoiler attachment. C. W. Francis. No. 1,358,836; Nov. 16; v. 280; p. 426.
Plow, Tractor-. F. E. Davis and W. W. Cameron. No. 1,347,992; July 27; v. 276; p. 704.
Plow, Tractor-. W. H. Himes. No. 1,348,9vo, Aug. 10; v. 277; p. 219.
Plow, Tractor-. J. B. Mason. No. 1,339,603; May 11; v. 274; p. 254.
Plow, Tractor-. F. C. Watson. No. 1,362,277; Dec. 14; v. 281; p. 306.
Plow, Tractor cut-out. J. T. Onstott. No. 1,360,014; Nov. 23; v. 280; p. 701.
Plow, Tractor rotary. S. T. Ingram. No. 1,342,815; June 8; v. 275; p. 289.
Plow-trip. C. J. Z. Fanberg. No. 1,331,424; Feb. 17; v. 271; p. 489.
Plow, Vineyard-. E. L. Mayall. No. 1,333,811; Mar. 16; v. 272; p. 422.
Plow, Wheel-. M. Lundin. No. 1,362,710; Dec. 21; v. 281; p. 441.
Plow-wheel adjuster. C. L. Baker. No. 1,336,550; Apr. 13; v. 273; p. 219.
Plows, Attachment for. H. S. Dale. No. 1,355,737; Oct. 12; v. 279; p. 306.
Plows, Clevis adjustment for. A. A. Bryant. No. 1,353,946; Sept. 28; v. 278; p. 576.
Plows, Combination steering mechanism for. W. C. Rarig. No. 1,335,529; Mar. 30; v. 272; p. 851.
Plows, Cutter attachment for. B. B. Youmans. No. 1,362,279; Dec. 14; v. 281; p. 306.
Plows, Draft-gear for gang-. S. Wilson. No. 1,337,870; Apr. 20; v. 273; p. 545.
Plows, Fender-pulverizer for. R. Coffman. No. 1,330,686; Feb. 10; v. 271; p. 282.
Plows, Harrow attachment for. K. Anderson. No. 1,333,056; Mar. 9; v. 272; p. 219.
Plows, Lifting. W. G. Cresswell. No. 1,355,815; Oct. 19; v. 279; p. 361.
Plows, Moldboard for. C. Gleiche. No. 1,346,600; July 13; v. 276; p. 313.
Plows, Operating mechanism for gang-. O. W. Johnson. No. 1,333,207; Mar. 9; v. 272; p. 247.
Plows, Subsoil attachment for. L. L. Johnson. No. 1,360,409; Nov. 30; v. 280; p. 847.
Plows to tractors, Means for connecting gang-. R. C. Gruwell. No. 1,363,507; Dec. 28; v. 281; p. 636.
Plowing and seeding apparatus. D. L. Healy. No. 1,336,902; Apr. 13; v. 273; p. 288.
Plowing-machine. L. A. Desy. No. 1,349,821; Aug. 17; v. 277; p. 454.
Plowing-machine. R. Ramos and A. de Cardenas. No. 1,347,589; July 27; v. 276; p. 624.
Plowing-machine. C. C. Reed. No. 1,328,896; Jan. 27; v. 270; p. 506.
Plowshare. J. A. Porter. No. 1,362,137; Dec. 14; v. 281; p. 278.
Plowshare. A. C. Schenk. No. 1,358,584; Nov. 9; v. 280; p. 330.
Plowshare, Quick-detachable. J. Boda. No. 1,359,663; Nov. 23; v. 280; p. 631.
Plowshare, Quick-detachable. L. H. Kaupke. No. 1,356,723; Oct. 26; v. 279; p. 587.
Plug. E. V. Crowell. No. 1,330,430; Feb. 10; v. 271; p. 234.
Plug and pull socket, Current-regulating. A. Papini. No. 1,335,017; Mar. 30; v. 272; p. 756.
Plug and receptacle, Water-tight. J. W. Haywood and L. W. Horne. No. 1,362,992; Dec. 21; v. 281; p. 496.
Plug and socket, Current-regulating. A. Papini. No. 1,333,936; Mar. 16; v. 272; p. 445.
Plug and socket, Current-regulating. A. Papini. No. 1,335,015; Mar. 30; v. 272; p. 755.
Plug and socket, Current-regulating. A. Papini. No. 1,335,018; Mar. 30; v. 272; p. 756.
Plug and socket, Current-regulating. A. Papini. No. 1,335,023; Mar. 30; v. 272; p. 757.
Plug and socket, Current-regulating. A. Papini. No. 1,336,919; Apr. 13; v. 273; p. 291.
Plug and socket switch, Current-regulating. A. Papini. No. 1,346,418; July 13; v. 276; p. 277.
Plug, Attaching-. T. D. Finizio. No. 1,331,634; Feb. 24; v. 271; p. 549.
Plug, Attachment-. R. B. Benjamin. No. 1,328,788; Jan. 20; v. 270; p. 454.
Plug, Attachment-. G. W. Goodridge. No. 1,340,856; May 18; v. 274; p. 547.
Plug, Attachment-. J. J. Kenney. No. 1,338,226; Apr. 27; v. 273; p. 682.
Plug, Attachment-. C. J. Klein. No. 1,352,817; Sept. 14; v. 278; p. 251.
Plug, Blaze-. J. J. Romig. No. 1,332,636; Mar. 2; v. 272; p. 88.
Plug, Connecting-. S. J. La Montaine. No. 1,343,676; June 15; v. 275; p. 521.
Plug, Connector-. C. D. Lake. No. 1,342,819; June 8; v. 275; p. 290.
Plug-connector, Electrical. W. C. Tregoning. No. 1,346,860; July 20; v. 276; p. 423.
Plug, Current-carrying. H. A. Douglas. No. 1,347,738; July 27; v. 276; p. 654.
Plug, Cut-out. J. W. Eagan. No. 1,356,611; Oct. 26; v. 279; p. 564.
Plug-cut-out base. R. C. Cole. No. 1,351,203; Aug. 31; v. 277; p. 831.
Plug, Electric. E. D. Whelpley and W. E. Winters. No. 1,337,422; Apr. 20; v. 273; p. 460.
Plug, Electric attachment-. M. Herskovitz. No. 1,359,171; Nov. 16; v. 280; p. 489.
Plug, Electrical. J. G. Benton. No. 1,359,567; Nov. 23; v. 280; p. 613.
Plug, Electrical attachment-. W. C. Tregoning. No. 1,328,774; Jan. 20; v. 270; p. 453.
Plug, Fuse-. F. H. Kaiser. No. 1,357,169; Oct. 26; v. 279; p. 673.
Plug, Ingition-. G. V. Nolte and J. E. Smith. No. 1,330,335; Feb. 10; v. 271; p. 216.
Plug-inserting machine. M. W. Howard. No. 1,329,710; Feb. 3; v. 271; p. 68.
Plug or thread gage. F. O. Hoagland. No. 1,350,311; Aug. 24; v. 277; p. 595.
Plug, Repair-. J. Bropson. No. 1,350,489; Aug. 24; v. 277; p. 631.
Plug, Separable attachment-. J. J. Kenney. No. 1,341,468; May 25; v. 274; p. 737.
Plug, Stop and waste cock. H. C. Hohmann. No. 1,347,951; July 27; v. 276; p. 696.
Plug, Valve-. A. H. Squier. No. 1,335,084; Mar. 30; v. 272; p. 759.
Plug, Wall-. W. and C. Cordery. No. 1,340,752; May 18; v. 274; p. 528.
Plug, Washout-. R. B. Housley. No. 1,346,496; July 13; v. 276; p. 293.

Digitized by Google

Alphabetical list of inventions—Continued.

Plugs, Forming composite metal. O. L. Prime. No. 1,334,051; Mar. 16; v. 272; p. 467.
Plugs, Machine for making composition. I. E. Farr. No. 1,348,214; Aug. 3; v. 277; p. 16.
Plumb-bob. J. A. Ewing and E. J. McGowan. No. 1,349,565; Aug. 17; v. 277; p. 405.
Plumb-bob. P. T. Fagrie. No. 1,336,289; Apr. 6; v. 273; p. 110.
Plumb-bob, Automatic. E. S. Bush. No. 1,357,270; Nov. 2; v. 280; p. 13.
Plumb, Spirit-level and. W. J. Neidl. No. 1,362,813; Dec. 21; v. 281; p. 462.
Plumber's furnace. J. B. and J. V. Martin. No. 1,356,960; Oct. 26; v. 279; p. 633.
Plumbing connection. G. Meier. No. 1,346,788; July 13; v. 276; p. 351.
Plumbing device. B. Jenkins. No. 1,330,377; Feb. 10; v. 271; p. 224.
Plumbing device. C. Werner. No. 1,340,995; May 25; v. 274; p. 646.
Plumbing-fitting. G. J. White. No. 1,361,124; Dec. 7; v. 281; p. 29.
Plunger. S. Ustrzycki and J. Bukola. No. 1,340,126; May 11; v. 274; p. 353.
Plunger-guide construction. W. P. Krause. No. 1,328,526; Jan. 20; v. 270; p. 407.
Plunger-rod. W. W. Bodine and H. L. Patrick. No. 1,335,361; Mar. 30; v. 272; p. 820.
Plywood, Manufacturing. S. B. Henning. No. 1,329,402; Feb. 3; v. 271; p. 11.
Plywood, Manufacturing. O. L. Sponsler, M. E. Dunlap, and S. B. Henning. No. 1,336,262; Apr. 6; v. 273; p. 105.
Pneumatic action. A. P. Gustafson. No. 1,359,456; Nov. 16; v. 280; p. 546.
Pneumatic apparatus, Inflating device for. W. D. Luts. No. 1,328,088; Jan. 13; v. 270; p. 287.
Pneumatic cleaner. G. W. Allen. No. 1,326,901; Jan. 6; v. 270; p. 3.
Pneumatic cleaner. D. B. Replogle. No. 1,345,550; July 6; v. 276; p. 44.
Pneumatic controller. S. B. T. Worden. No. 1,344,828; June 22; v. 275; p. 714.
Pneumatic cushion. A. C. Eggers. No. 1,343,357; June 15; v. 275; p. 458.
Pneumatic cushion. E. S. Sylvester. No. 1,332,933; Mar. 9; v. 272; p. 196.
Pneumatic drill. Z. Lambert. No. 1,339,565; May 11; v. 274; p. 246.
Pneumatic injector for puncture-closing compound. V. H. Roehrich. No. 1,363,920; Dec. 28; v. 281; p. 716.
Pneumatic mechanism. J. O'Connor. No. 1,342,180; June 1; v. 275; p. 112.
Pneumatic motor. H. R. Christiansen. No. 1,347,444; July 20; v. 276; p. 538.
Pneumatic shovel. A. W. Kaney. No. 1,351,425; Aug. 31; v. 277; p. 876.
Pneumatic signal. L. M. Kunisin. No. 1,331,158; Feb. 17; v. 271; p. 439.
Pneumatic tires, Core-strippers for. W. M. Metzler. No. 1,363,802; Dec. 28; v. 281; p. 693.
Pneumatic tires, Rim and clamping device for. U. S. Landers. No. 1,363,884; Dec. 28; v. 281; p. 709.
Pneumatic wheel. E. B. Hudson. No. 1,344,401; June 22; v. 275; p. 728.
Pocket accounting device. M. L. Buchheim. No. 1,342,707; June 8; v. 275; p. 266.
Pocket box or container. J. Peterson. No. 1,344,650; June 29; v. 275; p. 843.
Pocket-case. H. T. Reed. No. 1,354,211; Sept. 28; v. 278; p. 631.
Pocket, Combination roller-bolster and stake-. R. E. Byrne. No. 1,234,618; Mar. 23; v. 272; p. 619.
Pocket, Corner-. L. S. Riley. No. 1,355,694; Oct. 12; v. 279; p. 297.
Pocket, Duplex. A. Hjelm. No. 1,355,055; Oct. 5; v. 279; p. 118.
Pocket for garments, Safety-. C. M. Miller, Jr. No. 1,328,884; Jan. 27; v. 270; p. 504.
Pocket, Garment-. H. Brown. No. 1,344,075; June 22; v. 275; p. 665.
Pocket, Garment-. J. Gunderson. No. 1,342,168; June 1; v. 275; p. 109.
Pocket, Garment-. S. Levine. No. 1,354,047; Sept. 28; v. 278; p. 598.
Pocket-guard. C. H. Long. No. 1,343,371; June 15; v. 275; p. 461.
Pocket implement. W. R. Clough. No. 1,339,164; May 4; v. 274; p. 95.
Pocket-knife. O. L. Hemming. No. 1,337,769; Apr. 20; v. 273; p. 526.
Pocket-knife. D. Rohrer. No. 1,362,142; Dec. 14; v. 281; p. 279.
Pocket-knife. D. Rohrer. No. 1,362,143; Dec. 14; v. 281; p. 279.
Pocket-knife. A. Smith. No. 1,359,760; Nov. 23; v. 280; p. 651.
Pocket-knife, Lock-blade. J. Haywood. No. 1,357,398; Nov. 2; v. 280; p. 88.
Pocket-knife, Safety. J. Pantalek. No. 1,353,490; Sept. 21; v. 278; p. 442.
Pocket-knife, Trick. R. Armour. No. 1,350,251; Aug. 17; v. 277; p. 537.
Pocket-like articles, Device for turning. F. Dreyer. No. 1,353,947; Oct. 19; v. 279; p. 387.
Pocket-marking machine. F. M. Laserson. No. 1,353,051; Sept. 14; v. 278; p. 296.
Pocket ornament. H. M. Isaacs. No. 1,361,884; Dec. 7; v. 281; p. 81.
Pocket, Overalls-. D. S. Carter. No. 1,336,614; Apr. 13; v. 273; p. 232.
Pocket-picking, Device for the prevention of. F. Bini. No. 1,347,005; July 20; v. 276; p. 452.
Pocket, Protective. C. C. Wais. No. 1,351,816; Sept. 7; v. 278; p. 20.
Pocket, Safety-. G. G. Babich. No. 1,330,572; Feb. 10; v. 271; p. 261.
Pocket, Secret. M. Hasprunar. No. 1,360,395; Nov. 30; v. 280; p. 844.
Pocket, Trousers-. L. Wine. No. 1,330,364; Feb. 10; v. 271; p. 222.
Pocketed carrier. F. R. Batchelder. No. 1,340,141; May 18; v. 274; p. 413.
Pocketed carrier. F. R. Batchelder. No. 1,340,142; May 18; v. 274; p. 413.
Pocketed carrier and producing same. G. W. Spalding. (Reissue.) No. 14,989; Nov. 16; v. 280; p. 552.
Poison-bottle indicator. A. G. Baxter. No. 1,352,344; Sept. 7; v. 278; p. 121.
Poison-distributer. J. Een. No. 1,339,556; May 11; v. 274; p. 244.
Poke, Animal-. D. F. Busskohl. No. 1,332,484; Mar. 2; v. 272; p. 59.
Poke, Animal. C. A. Cutler. No. 1,349,324; Aug. 10; v. 277; p. 285.
Poke, Animal-. D. B. Smithson. No. 1,346,272; July 13; v. 276; p. 249.
Poke or halter, Animal. W. Link. No. 1,335,118; Mar. 30; v. 272; p. 775.
Poker support, Furnace-. J. Pavlik. No. 1,328,686; Jan. 20; v. 270; p. 487.
Polar oscillograms, Device for producing. L. W. Chubb. (Reissue.) No. 14,821; Mar. 23; v. 272; p. 688.
Polarity, Device for indicating magnetic. H. D. Oakley. No. 1,328,187; Jan. 13; v. 270; p. 306.
Polarity-indicator. W. Kaisling. No. 1,333,422; Mar. 9; v. 272; p. 287.
Pole. J. E. Smith. No. 1,348,063; July 27; v. 276; p. 719.
Pole-changer. H. D. Currier. No. 1,330,059; Feb. 10; v. 271; p. 165.
Pole connection with sleigh-runners, Wagon-. A. Smithson. No. 1,355,705; Oct. 12; v. 279; p. 299.
Pole construction. S. H. Mortensen. No. 1,355,347; Oct. 12; v. 279; p. 231.
Pole, Curtain-. L. E. Knight. No. 1,356,454; Oct. 19; v. 279; p. 487.
Pole, Extensible trolley-. E. C. Dietrich and C. W. Bliss. No. 1,355,046; Oct. 19; v. 279; p. 387.
Pole-making machine. C. F. Massey. No. 1,346,411; July 13; v. 276; p. 275.
Pole, Metal. M. Lachman. No. 1,332,669; Mar. 2; v. 272; p. 94.
Pole or post. M. Lachman. No. 1,328,927; Jan. 27; v. 270; p. 512.
Pole-prop. J. W. Petersen. No. 1,355,568; Oct. 12; v. 279; p. 273.
Pole-setting device. J. H. Willis. No. 1,339,082; May 4; v. 274; p. 81.
Pole supporting bracket, Adjustable shade and curtain-. E. T. Sheppard. No. 1,351,697; Aug. 31; v. 277; p. 929.
Pole, Trolley-. A. A. Johnson. No. 1,356,369; Oct. 19; v. 279; p. 471.
Poles and yokes, Connection between vehicle. F. Hooper. No. 1,360,528; Nov. 30; v. 280; p. 870.
Polish and color reviver and preservative. A. L. Connors and F. A. Rutledge. No. 1,356,128; Oct. 19; v. 279; p. 423.
Polisher and grinder, Portable. C. Campbell. No. 1,334,224; Mar. 16; v. 272; p. 499.
Polish and remover of grease and tar, Combined. G. F. Lord. No. 1,326,869; Oct. 26; v. 279; p. 615.
Polish, Liquid. A. F. Mendez. No. 1,352,015; Sept. 7; v. 278; p. 59.
Polish-rod hanger. B. Cousins. (Reissue.) No. 14,999; Dec. 7; v. 281; p. 164.
Polish, Wood and metal. J. Friedman. No. 1,343,259; June 15; v. 275; p. 439.
Polisher, Roll-. F. S. Klug and C. E. Freeland. No. 1,327,919; Jan. 13; v. 270; p. 355.
Polisher, Roll-. G. B. Stevens. No. 1,327,639; Jan. 13; v. 270; p. 208.
Polishing and buffing metal articles. H. C. Hart. No. 1,352,598; Sept. 14; v. 278; p. 206.
Polishing apparatus. W. Severns. No. 1,353,429; Sept. 21; v. 278; p. 430.
Polishing-block. H. M. Hoffman. No. 1,332,896; Mar. 9; v. 272; p. 189.
Polishing composition. E. A. Leake. No. 1,356,075; Oct 19; v. 279; p. 412.
Polishing composition. J. F. Linane. No. 1,359,401; Nov. 16; v. 280; p. 535.
Polishing-machine. J. J. Haldeman. No. 1,359,364; Nov. 16; v. 280; p. 527.

Digitized by Google

Polishing-machine. W. La Hodny. No. 1,345,874; July 6; v. 276; p. 9.
Polishing-machine. F. Ramstetter and W. J. Britt. No. 1,356,737; Oct. 26; v. 279; p. 589.
Polishing-wheel. R. W. Putnam. No. 1,348,050; July 27; v. 276; p. 716.
Polysulfid solutions, Treating. E. C. Holton. (Reissue.) No. 14,890; June 22; v. 275; p. 771.
Polysulfids and the products of such method, Stabilizing. D. Davidson. No. 1,338,678; May 4; v. 274; p. 6.
Ponds or wet lands, Draining. J. V. Smith. No. 1,355,066; Oct. 5; v. 279; p. 123.
Popcorn-heater. L. H. Ruehle. No. 1,341,592; May 25; v. 274; p. 761.
Popcorn, Machine for making. T. Morgan. No. 1,339,662; May 11; v. 274; p. 265.
Porcelain. C. Dantsizen. No. 1,342,040; June 8; v. 275; p. 333.
Porch, Sleeping-. I. Norman. No. 1,359,418; Nov. 16; v. 280; p. 538.
Porch-swing folding chair. E. P. Elzey. No. 1,361,700; Dec. 7; v. 281; p. 145.
Porous mass. A. U. Särnmark. No. 1,335,200; Mar. 30; v. 272; p. 790.
Port-holes, Wind scoop and screen for. H. H. Ahern. No. 1,330,569; Feb. 10; v. 271; p. 260.
Port-light. A. H. Kenneweg. No. 1,350,507; Aug. 24; v. 277; p. 635.
Port-light. M. Schwartz. No. 1,361,551; Dec. 7; v. 281; p. 116.
Portable burner. E. Rector. No. 1,341,672; June 1; v. 275; p. 12.
Portable clamp. A. Anthony. No. 1,347,360; July 20; v. 276; p. 522.
Portable crusher. R. C. Newhouse. No. 1,331,963; Feb. 24; v. 271; p. 611.
Portable drill. P. G. Weiss. No. 1,333,748; Mar. 16; v. 272; p. 409.
Portable elevator. G. A. Emerson. No. 1,336,949; Apr. 13; v. 273; p. 296.
Portable elevator. E. N. Hescock and E. F. Smith. No. 1,344,271; June 22; v. 275; p. 703.
Portable elevator. E. N. Hescock and E. F. Smith. No. 1,344,272; June 22; v. 275; p. 703.
Portable elevator. E. N. Hescock and E. F. Smith. No. 1,356,281; Oct. 19; v. 279; p. 454.
Portable elevator. H. R. Kees and E. F. Thomas. No. 1,329,084; Jan. 27; v. 270; p. 541.
Portable house. C. M. Stafford. No. 1,350,478; Aug. 24; v. 277; p. 629.
Portable knockdown building structure. J. E. Wilson. No. 1,363,379; Dec. 28; v. 281; p. 611.
Portable screen. M. P. Almy. No. 1,348,073; July 27; v. 276; p. 721.
Portable screen. H. L. Miller. No. 1,363,187; Dec. 21; v. 281; p. 534.
Portable stand. W. Blasco. No. 1,340,108; May 11; v. 274; p. 349.
Portfolio-drawer. F. S. Braid. No. 1,340,319; May 18; v. 274; p. 445.
Porthole-screen. U. G. Lee. No. 1,336,038; Apr. 6; v. 273; p. 63.
Portioning mechanism. H. W. Hodgdon and H. G. Giles. No. 1,334,304; Mar. 23; v. 272; p. 560.
Position or the movement of a body or for controlling the auxiliary devices dependent on said position or movement, Apparatus for determining the. C. Schoute, F. A. van Heyst, and N. E. G. Meyer. No. 1,336,399; Apr. 6; v. 273; p. 131.
Post: *See*—
Anchor-post.
Binding-post.
Bumping-post.
Cattle-grazing post.
Fencepost.
Guide and sign post.
Indicator-valve post.
Lamp-post.
Line-supporting post.
Scale-post.
Signal-post.
Survey-post.
Tool-post.
Traffic-post.
Violin sound-post.
Post. G. J. Buckner. No. 1,356,514; Oct. 26; v. 279; p. 546.
Post. T. T. Snow. No. 1,334,812; Mar. 23; v. 272; p. 656.
Post. D. H. Snyder. No. 1,329,026; Jan. 27; v. 270; p. 530.
Post-cap. S. L. Dryfoos. No. 1,355,657; Oct. 12; v. 279; p. 290.
Post fastener, Corner-. M. B. Okun. No. 1,341,068; May 25; v. 274; p. 660.
Post-office cabinet, General-delivery. J. B. Conine. No. 1,351,372; Aug. 31; v. 277; p. 866.
Post-splicing clamp. H. O. McMillan. No. 1,344,139; June 22; v. 275; p. 677.
Post structure. P. A. Dietz. No. 1,360,623; Nov. 30; v. 280; p. 889.
Posthole-digger. W. S. Cronowert. No. 1,335,878; Apr. 6; v. 273; p. 33.
Posthole-digger. D. Young. No. 1,331,310; Feb. 17; v. 271; p. 467.
Posthole-digger, wire-tightener, and crowbar, Combined. G. Evans. No. 1,336,027; Apr. 6; v. 273; p. 61.
Posthole-digging machine. V. J. Davidson. No. 1,360,193; Nov. 23; v. 280; p. 736.
Posthole-digging mechanism. A. Chattstrom. No. 1,356,125; Oct. 19; v. 279; p. 423.
Posthole-forming machine. J. G. Miller. No. 1,338,948; May 4; v. 274; p. 55.
Postage transport system. H. K. Haller. No. 1,327,962; Jan. 13; v. 270; p. 261.
Posting appliance. T. Hiller and W. R. Myers. No. 1,362,310; Dec. 14; v. 281; p. 312.
Posting box and file, Combined. R. R. Cardall. No. 1,356,851; Oct. 26; v. 279; p. 612.
Posting-stand. F. L. Manny. No. 1,347,645; July 27; v. 276; p. 634.
Posting-tray and record-binder. R. R. Cardall. No. 1,348,781; Aug. 3; v. 277; p. 125.
Pot: *See*—
Coffee-pot.
Coffee or tea pot.
Dash-pot.
Glass-drawing pot.
Tea and coffee pot.
Wax-pot.
Pot-furnace. E. L. Knoedler. No. 1,349,159; Aug. 10; v. 277; p. 252.
Pot-head connector. P. F. Williams. No. 1,335,542; Mar. 30; v. 272; p. 853.
Pot-lid. L. Ehlers. No. 1,328,652; Jan. 20; v. 270; p. 430.
Pot-lifter. V. Puchaszkevski. No. 1,342,758; June 8; v. 275; p. 277.
Pot-supporter. W. H. Weiseman. No. 1,334,199; Mar. 16; v. 272; p. 494.
Pots from tipping over, Device to prevent plant-. R. Hastings. No. 1,357,777; Nov. 2; v. 280; p. 110.
Potters' slip, powdered substances, and the like, Sifter for. A. C. Harrison. No. 1,346,452; July 13; v. 276; p. 284.
Pottery and like articles, Casting. B. J. Allen and R. Y. Ames. No. 1,336,180; Apr. 6; v. 273; p. 90.
Pottery-ware. A. P. Morris. No. 1,362,956; Dec. 21; v. 281; p. 488.
Potash alum, Making. T. H. Wright. No. 1,359,011; Nov. 16; v. 280; p. 460.
Potash-reclaiming. H. W. Charlton. No. 1,341,110; May 25; v. 274; p. 668.
Potash, Recovering. A. C. Spencer. No. 1,344,850; June 29; v. 275; p. 878.
Potassiferous materials, Treatment of. C. Catlett. No. 1,354,727; Oct. 5; v. 279; p. 56.
Potassium and other alkali-metal compounds, Obtaining. E. H. Westling. No. 1,349,113; Aug. 10; v. 277; p. 242.
Potassium and sodium, Separating nitrates of. R. P. Calvert. No. 1,356,806; Oct. 26; v. 279; p. 602.
Potassium carbonate, Making. E. P. Stevenson. No. 1,360,046; Nov. 23; v. 280; p. 708.
Potassium chlorate and producing same, Form of. E. R. Wolcott. No. 1,355,203; Oct. 12; v. 279; p. 202.
Potassium chlorid and borax from certain waters, Separately obtaining. N. Wrinkle and W. A. Kuhnert. No. 1,350,089; Aug. 17; v. 277; p. 506.
Potassium chlorid from brine, Recovering. J. L. Silsbee. No. 1,353,283; Sept. 21; v. 278; p. 401.
Potassium chlorid from natural silicates, rocks, minerals, residues, or wastes containing potassium, Manufacture of. E. A. Ashcroft. No. 1,350,091; Aug. 17; v. 277; p. 506.
Potassium from greensand, Producing combined. H. W. Charlton. No. 1,329,369; Feb. 3; v. 271; p. 6.
Potassium from greensand, Obtaining combined. T. C. Meadows, M. Hauber, Jr., and H. W. Charlton. No. 1,327,164; Jan. 6; v. 270; p. 53.
Potassium from minerals, Obtaining combined. S. R. Scholes. No. 1,327,782; Jan. 13; v. 270; p. 230.
Potassium from potash-bearing silicate minerals, Extracting. S. R. Scholes and R. F. Brenner. No. 1,327,781; Jan. 13; v. 270; p. 230.
Potassium, Treating minerals containing. A. Messerschmitt. No. 1,344,705; June 29; v. 275; p. 853.
Potato-bug-killing machine. A. Janssen. No. 1,334,863; Mar. 23; v. 272; p. 666.
Potato-bug-trapping machine. J. M. Drake. No. 1,344,119; June 22; v. 275; p. 673.
Potato chipper and slicer. J. Rosinsky. No. 1,358,020; Nov. 9; v. 280; p. 218.
Potato cutter, Seed-. C. P. Miller and R. R. Lee. No. 1,354,263; Sept. 28; v. 278; p. 642.
Potato-cutting machine. D. S. Foley. No. 1,327,316; Jan. 6; v. 270; p. 81.
Potato-cutting machine. J. O. Jacobson. No. 1,362,193; Dec. 14; v. 281; p. 271.
Potato-digger. R. Anderson. No. 1,332,454; Mar. 2; v. 272; p. 53.
Potato-digger. L. A. Aspinwall. No. 1,341,454; May 25; v. 274; p. 735.
Potato-digger. E. M. Gazlay. No. 1,334,605; Mar. 23; v. 272; p. 617.
Potato-digger. F. B. Springer. No. 1,358,594; Nov. 9; v. 280; p. 332.
Potato-digger and bean-harvester. M. L. Swayze. No. 1,355,014; Oct. 5; v. 279; p. 112.
Potato-digging machine. F. W. Grundel. No. 1,333,485; Mar. 9; v. 272; p. 300.
Potato-grader. C. Jenkins. No. 1,345,858; July 6; v. 276; p. 104.

Digitized by Google

Alphabetical list of inventions—Continued.

Potato-masher. C. E. Jenkins. No. 1,349,885; Aug. 17; v. 277; p. 467.
Potato masher and beater, Combination. C. C. Defenbaugh. No. 1,353,520; Sept. 21; v. 278; p. 448.
Potato-peeler. W. Lefteruk. No. 1,336,526; Apr. 13; v. 273; p. 214.
Potato-peeler. S. J. White. No. 1,351,711; Aug. 31; v. 277; p. 932.
Potato-peeler, Household. A. De Ghetto. No. 1,355,893; Oct. 12; v. 279; p. 239.
Potato-picker. C. Sang. No. 1,343,586; June 15; v. 275; p. 503.
Potato picker or gatherer. C. Fowler. No. 1,351,948; Sept. 7; v. 278; p. 47.
Potato-receptacle. C. E. Scott. No. 1,340,798; May 18; v. 274; p. 537.
Potato-sowing machine. E. Cadeddu. No. 1,334,837; Mar. 23; v. 272; p. 662.
Potato-vines, Machine for raising and cutting. J. F. Davis. No. 1,347,733; July 27; v. 276; p. 653.
Potatoes and other seed, Machine for planting. J. Hutton. No. 1,352,411; Sept. 7; v. 278; p. 183.
Potatoes, Apparatus for preparing. B. Remmers. No. 1,327,254; Jan. 6; v. 270; p. 70.
Potatoes for planting, Machine for cutting up. J. L. Schroeder. No. 1,337,968; Apr. 20; v. 273; p. 564.
Potatoes, Machine for cutting seed-. J. L. Schroeder. No. 1,347,058; July 20; v. 276; p. 463.
Potatoes or yams, Curing sweet-. W. E. Bobo. No. 1,353,561; Sept. 21; v. 278; p. 456.
Pouch, Medical. W. E. Eaton. No. 1,342,432; June 8; v. 275; p. 213.
Poultry-fountain and heater therefor. T. Schell. No. 1,343,010; June 8; v. 275; p. 327.
Poultry-house heater. L. Busby. No. 1,345,581; July 6; v. 276; p. 50.
Poultry housing device. H. E. Adams. No. 1,331,040; Feb. 17; v. 271; p. 418.
Poultry-housing device. D. E. Speicher. No. 1,345,968; July 6; v. 276; p. 127.
Poultry-killer. F. S. Rece. No. 1,356,941; Oct. 26; v. 279; p. 629.
Pouring joints, Device for. T. J. O'Connell. No. 1,337,256; Apr. 20; v. 273; p. 429.
Pouring vessel. R. N. Griner. No. 1,344,688; June 29; v. 275; p. 850.
Powder and making same, Perforated pellet of explosive. F. I. and E. du Pont. No. 1,352,121; Sept. 7; v. 278; p. 79.
Powder and making same, Progressively-burning. R. G. Woodbridge, Jr., K. K. V. Casey, and C. I. B. Henning. No. 1,354,442; Sept. 28; v. 278; p. 678.
Powder and making same, Propellent. C. I. B. Henning. No. 1,336,463; Apr. 13; v. 273; p. 208.
Powder and making same, Propellent. C. I. B. Henning. No. 1,357,865; Nov. 2; v. 280; p. 127.
Powder and rouge container. R. Y. Barrows and G. H. Harman. No. 1,363,218; Dec. 28; v. 281; p. 580.
Powder-box. A. L. Aste. No. 1,357,306; Nov. 2; v. 280; p. 20.
Powder-box. C. Weber. No. 1,331,547; Feb. 24; v. 271; p. 532.
Powder, Device adapted to contain. S. S. Booty. No. 1,334,218; Mar. 16; v. 272; p. 498.
Powder-box, Double-compartment. G. H. Harman. No. 1,360,739; Nov. 30; v. 280; p. 912.
Powder-box, Sifter M. K. Turner. No. 1,341,951; June 1; v. 275; p. 67.
Powder-dispensing device. H. G. Ingram and S. Goldberg. No. 1,341,174; May 25; v. 274; p. 680.
Powder-dispensing pencil, Antiseptic-. N. O. Anderson and C. Scheich. No. 1,352,982; Sept. 14; v. 278; p. 273.
Powder-distributer. F. J. Kaufmann. No. 1,333,079; Mar. 9; v. 272; p. 224.
Powder, Explosive propellent. F. I. du Pont. No. 1,341,207; May 25; v. 274; p. 687.
Powder from surfaces, Machine for removing surplus. M. S. Rosenfeld. No. 1,331,583; Feb. 24; v. 271; p. 539.
Powder from surfaces, Removing surplus. M. S. Rosenfeld. No. 1,331,582; Feb. 24; v. 271; p. 539.
Powder-handling machine. E. H. Pipe. No. 1,337,619; Apr. 20; v. 273; p. 497.
Powder, Manufacture of bleaching-. A. Rudge. No. 1,330,495; Feb. 10; v. 271; p. 246.
Powder-puff. J. Darby. No. 1,359,232; Nov. 16; v. 280; p. 501.
Powder-puff. H. E. Fry and W. O. Kelter. No. 1,349,057; Aug. 10; v. 277; p. 231.
Powder-puff. H. Fry and W. O. Kelter. No. 1,358,538; Nov. 9; v. 280; p. 321.
Powder-puff. B. H. Karmen. No. 1,357,990; Nov. 9; v. 280; p. 212.
Powder-puff. A. S. Mosheim. No. 1,357,412; Nov. 2; v. 280; p. 40.
Powder-puff and face-powder box or container. F. Mousley. No. 1,355,412; Oct. 12; v. 279; p. 243.
Powder-puff and making same. A. S. Mosheim. No. 1,357,411; Nov. 2; v. 280; p. 40.
Powder-puffs. Machine for making. P. Meyer. No. 1,363,141; Dec. 21; v. 281; p. 525.
Powder-receptacle. G. Felsenthal. No. 1,347,149; July 20; v. 276; p. 480.
Powder, Recovering solvent from smokeless. E. Dupont. No. 1,334,360; Mar. 23; v. 272; p. 571.
Powdered or granular materials, Machine for mixing. G. Hoepner. No. 1,349,960; Aug. 17; v. 277; p. 481.
Power: *See*—
Pumping power. Tide-water power.
Power apparatus. M. S. Okun. No. 1,356,463; Oct. 19; v. 279; p. 489.
Power, Apparatus for developing. G. W. Connor. No. 1,332,804; Mar. 2; v. 272; p. 120.
Power, Apparatus for generating. T. H. Holroyd. No. 1,355,671; Oct. 12; v. 279; p. 293.
Power, Application of. B. L. Beebe. No. 1,348,202; Aug. 3; v. 277; p. 13.
Power-barring apparatus. E. Schneider. No. 1,353,275; Sept. 21; v. 278; p. 399.
Power by internal combustion, Generating. P. Ostenberg. No. 1,337,823; Apr. 20; v. 273; p. 442.
Power by shafting, Clutch-coupling for the transmission of. F. H. Alexander. No. 1,335,543; Mar. 30; v. 272; p. 853.
Power by tidal movement, System for developing. V. Paesano. No. 1,348,313; Aug. 3; v. 277; p. 37.
Power control, Electromagnetic. F. W. Adsit. No. 1,361,216; Dec. 7; v. 281; p. 46.
Power-converter. C. C. Butler. No. 1,329,087; Jan. 27; v. 270; p. 532.
Power-developing apparatus. H. T. Herr. No. 1,343,671; June 15; v. 275; p. 520.
Power device. S. Beer. No. 1,356,423; Oct. 19; v. 279; p. 481.
Power device. S. C. Metzger. No. 1,340,620; May 18; v. 274; p. 503.
Power device. R. E. Neal. No. 1,331,997; Feb. 24; v. 271; p. 618.
Power device, Auxiliary. J. Cowley and R. C. Dills. No. 1,344,582; June 22; v. 275; p. 764.
Power devices, Producing charges for. H. Csanyi. No. 1,333,836; Mar. 16; v. 272; p. 426.
Power devices, Producing charges for. H. Csanyi. No. 1,333,837; Mar. 16; v. 272; p. 426.
Power devices, Producing charges for. H. Csanyi. No. 1,333,838; Mar. 16; v. 272; p. 427.
Power-drill. J. C. H. Vaught. No. 1,340,468; May 18; v. 274; p. 474.
Power-drill. M. R. Wood. No. 1,329,689; Feb. 3; v. 271; p. 64.
Poultry, Leg-band for. L. S. Sullivan and A. E. Adams. No. 1,362,969; Dec. 21; v. 281; p. 491.
Power-generating mechanism. L. W. Beaven. No. 1,336,188; Apr. 6; v. 273; p. 92.
Power-generating system. A. J. Meier. No. 1,352,616; Sept. 14; v. 278; p. 210.
Power-generating system. G. Yanacopoulos. No. 1,342,318; June 1; v. 275; p. 138.
Power generation. W. G. Leathers. No. 1,349,969; Aug. 17; v. 277; p. 483.
Power-generator. M. J. Trumble. No. 1,337,533; Apr. 20; v. 273; p. 481.
Power-hacksaw. E. L. Kaunitz. No. 1,362,628; Dec. 21; v. 281; p. 425.
Power-hammer die. M. A. Jennings. No. 1,337,474; Apr. 20; v. 273; p. 470.
Power-hammer. H. C. Urbaner. No. 1,355,291; Oct. 12; v. 279; p. 220.
Power, Hydraulic transmission of. A. De Puydt and H. De Vleminck. No. 1,333,012; Mar. 9; v. 272; p. 21.
Power installation, Regenerative. P. A. Bancel. No. 1,353,706; Sept. 21; v. 278; p. 486.
Power-jack. G. R. Wright. No. 1,359,644; Nov. 23; v. 280; p. 627.
Power-limiting systems. J. R. Craighead. No. 1,350,921; Aug. 24; v. 277; p. 713.
Power-operated machine, Safety device for. H. E. Seaver and C. L. Bowers. No. 1,354,345; Sept. 28; v. 278; p. 658.
Power-operating mechanism, Device for controlling. F. Fee. No. 1,359,679; Nov. 23; v. 280; p. 634.
Power plant. L. H. Dyer. No. 1,339,177; May 4; v. 274; p. 97.
Power plant. E. T. Lancaster. No. 1,358,219; Nov. 9; v. 280; p. 257.
Power plant. R. H. Olley. No. 1,344,814; June 29; v. 276; p. 875.
Power plant, Air-compression. N. B. Wales. No. 1,353,100; Sept. 14; v. 278; p. 306.
Power plant, Automatic electric-. E. B. Reese. No. 1,361,097; Dec. 7; v. 281; p. 23.
Power plant, Submerged compressed-air. G. W. Johnston. No. 1,360,222; Nov. 23; v. 280; p. 742.
Power plants, Manufacture of. H. D. Shamberg. No. 1,343,485; June 15; v. 275; p. 483.
Power plants, Pressure-regulator for internal-combustion. R. M. Anderson. No. 1,358,812; Nov. 16; v. 280; p. 421.
Power-press. H. M. Lucas. No. 1,339,773; May 11; v. 274; p. 286.
Power-press. H. M. Lucas. No. 1,339,774; May 11; v. 274; p. 286.

Digitized by Google

Power-press. E. W. Zeh. No. 1,349,033; Aug. 10; v. 277; p. 227.
Power-press feed. N. Baldwin. No. 1,358,609; Nov. 9; v. 280; p. 335.
Power-press guard. J. E. Phillips. No. 1,329,011; Jan. 27; v. 270; p. 527.
Power-presses, Automatic clutch control for. B. J. Lindgren. No. 1,342,965; June 8; v. 275; p. 318.
Power-presses, Safety control for. M. C. France. No. 1,340,333; May 18; v. 274; p. 448.
Power reversing mechanism. T. R. Cameron. No. 1,352,784; Sept. 14; v. 278; p. 244.
Power shift mechanism. L. A. Lang. No. 1,328,487; Jan. 20; v. 270; p. 390.
Power-shovel. C. A. Pratt. No. 1,340,498; May 18; v. 274; p. 480.
Power-shovel. F. R. Sills. No. 1,337,332; Apr. 20; v. 273; p. 443.
Power station, the output of one or more distant sources, Apparatus for adding to the output of a main. S. D. Sprong. No. 1,329,276; Jan. 27; v. 270; p. 577.
Power system, Electric. C. J. Myers. No. 1,355,410; Oct. 12; v. 279; p. 242.
Power system, Electric. I. T. Swartz. No. 1,348,907; Aug. 10; v. 277; p. 202.
Power, System of generating and distributing. P. J. Rennolds. No. 1,333,444; Mar. 9; v. 272; p. 292.
Power system, Totalizing. L. Wilson. No. 1,352,285; Sept. 7; v. 278; p. 100.
Power-table driving machines, Guard for. J. D. Karle. No. 1,339,766; May 11; v. 274; p. 285.
Power transmission. J. K. Delano. No. 1,339,258; May 4; v. 274; p. 112.
Power transmission. G. L. Jacques. No. 1,336,747; Apr. 13; v. 273; p. 257.
Power transmission. G. C. Jessup. No. 1,338,832; May 4; v. 274; p. 34.
Power transmission. R. Lindbloom. No. 1,340,833; May 18; v. 274; p. 543.
Power transmission. H. J. Murray. No. 1,359,616; Nov. 23; v. 280; p. 622.
Power transmission. W. C. Nutt. No. 1,353,063; Sept. 14; v. 278; p. 299.
Power transmission. T. P. Reddin. No. 1,328,588; Jan. 20; v. 270; p. 419.
Power transmission. J. G. P. Thomas. No. 1,341,223; May 25; v. 274; p. 689.
Power transmission and storage apparatus. T. F. Barrett. No. 1,352,936; Sept. 14; v. 278; p. 274.
Power-transmission apparatus. E. M. and A. G. Rayburn. No. 1,348,738; Aug. 3; v. 277; p. 117.
Power-transmission apparatus. W. Zeman. No. 1,337,873; Apr. 20; v. 273; p. 546.
Power-transmission apparatus, Fluid. J. H. Bair. No. 1,354,592; Oct. 5; v. 279; p. 29.
Power-transmission attachment for automobiles. D. D. Roberts. No. 1,353,786; Sept. 21; v. 278; p. 501.
Power transmission, Belt-pulley for. W. J. Manning. No. 1,329,620; Feb. 3; v. 271; p. 51.
Power-transmission device. E. Fuchs. No. 1,357,769; Nov. 2; v. 280; p. 108.
Power-transmission device. M. K. Ingoldby. No. 1,340,447; May 18; v. 274; p. 471.
Power-transmission device A. F. Mohr. No. 1,331,518; Feb. 24; v. 271; p. 527.
Power-transmission device. H. E. Owen. No. 1,353,178; Sept. 21; v. 278; p. 381.
Power-transmission device. R. Prantner. No. 1,353,936; Sept. 28; v. 278; p. 574.
Power-transmission device. F. B. Rae. No. 1,330,393; Feb. 10; v. 271; p. 227.
Power-transmission device. M. J. Saltzman. No. 1,342,649; June 8; v. 275; p. 254.
Power transmission, Electrical system of. J. R. Craighead and H. R. Summerhayes. No. 1,350,920; Aug. 24, v. 277; p. 713.
Power transmission, Electrical system of. M. Unger. No. 1,350,899; Aug. 24; v. 277; p. 709.
Power transmission, Gearless differential. F. W. Seeck. No. 1,355,170; Oct. 12; v. 279; p. 196.
Power transmission, Liquid wave. G. Constantinesco. No. 1,334,290; Mar. 23; v. 272; p. 558.
Power-transmission machine. C. A. and H. M. Granzow. No. 1,338,767; May 4; v. 274; p. 22.
Power-transmission machine. W. S. Holdaway, Jr. No. 1,328,517; Jan. 20; v. 270; p. 406.
Power-transmission machine. P. R. Peterson. No. 1,354,209; Sept. 28; v. 278; p. 631.
Power-transmission means and control therefor. J. R. Ricketts. No. 1,348,822; Aug. 3; v. 277; p. 133.
Power-transmission mechanism. W. F. Bateman. No. 1,331,475; Feb. 17; v. 271; p. 498.
Power-transmission mechanism. S. S. Hembree and A. L. Johnson. No. 1,337,908; Apr. 20; v. 273; p. 552.
Power-transmission mechanism. H. R. Holmes. (Reissue.) No. 14,808; Mar. 2; v. 272; p. 133.
Power-transmission mechanism. E. G. Johanson. No. 1,360,533; Nov. 30; v. 280; p. 871.
Power-transmission mechanism. J. de Martino. No. 1,349,328; Aug. 10; v. 277; p. 285.
Power-transmission mechanism. J. I. Moore. No. 1,347,961; July 27; v. 276; p. 698.
Power-transmission mechanism. W. B. Moses. No. 1,347,117; July 20; v. 276; p. 474.
Power-transmission mechanism. P. R. Peterson. No. 1,363,810; Dec. 28; v. 281; p. 695.
Power-transmission mechanism. A. F. Staples. No. 1,332,235; Mar. 2; v. 272; p. 11.
Power-transmission mechanism. L. B. Talbert. No. 1,360,597; Nov. 30; v. 280; p. 884.
Power-transmission mechanism. R. L. Williamson. No. 1,347,315; July 20; v. 276; p. 513.
Power-transmission mechanism. R. L. Williamson. No. 1,357,756; Nov. 2; v. 280; p. 105.
Power-transmission mechanism, Flexible. M. H. Harter. No. 1,330,869; Feb. 17; v. 271; p. 384.
Power-transmission mechanism, Friction. T. W. Graham. No. 1,330,526; Feb. 10; v. 271; p. 252.
Power transmission, Right-angle. R. W. Davis. No. 1,351,470; Aug. 31; v. 277; p. 885.
Power-transmission system. J. Schurch. No. 1,350,424; Aug. 24; v. 277; p. 618.
Power-transmission system. R. Treat. No. 1,328,465; Jan. 20; v. 270; p. 395.
Power-transmitters, Controlling means for. A. H. De Voe. No. 1,347,841; July 27; v. 276; p. 674.
Power-transmitting apparatus. V. A. Fynn. No. 1,361,244; Dec. 7; v. 281; p. 52.
Power-transmitting apparatus. J. Lebovici. No. 1,329,780; Feb. 3; v. 271; p. 81.
Power-transmitting apparatus. R. S. Woodward, Jr. No. 1,346,625; July 13; v. 276; p. 318.
Power-transmitting device. O. L. Huffman. No. 1,362,700; Dec. 21; v. 281; p. 439.
Power-transmitting device. G. L. Rock. No. 1,354,777; Oct. 5; v. 279; p. 66.
Power-transmitting device, Flexible. C. H. Au. No. 1,331,311; Feb. 17; v. 271; p. 467.
Power-transmitting device, Variable-speed. A. H. Jessen. No. 1,336,749; Apr. 13; v. 273; p. 258.
Power-transmitting means. W. Buhl. No. 1,347,076; July 20; v. 276; p. 466.
Power-transmitting mechanism. L. Melanowski. No. 1,342,687; June 8; v. 275; p. 262.
Power-transmitting mechanism. D. G. Roos. No. 1,345,462; July 6; v. 276; p. 26.
Power-transmitting mechanism. R. W. J. Smith. No. 1,346,139; July 13; v. 276; p. 222.
Power-transmitting-mechanism, Change-speed. T. H. Duncombe. No. 1,329,297; Jan. 27; v. 270; p. 380.
Power-unit-locating means. E. L. Van Dolsen. No. 1,350,347; Aug. 24; v. 277; p. 602.
Power-wheel, Submerged. G. W. Johnston. No. 1,360,221; Nov. 23; v. 280; p. 742.
Power without wires, Transmission of electrical. C. H. Roe. No. 1,333,095; Mar. 9; v. 272; p. 227.
Power-wrench. G. D. Alexander. No. 1,341,700; June 1; v. 275; p. 17.
Power-wrench. H. F. Mann. No. 1,355,239; Oct. 12; v. 279; p. 209.
Precious metals at temperatures higher than their fusing-points and article produced thereby, Preventing distortion of. R. J. Peschko. No. 1,335,024; Mar. 30; v. 272; p. 757.
Precious metals, Extracting. C. P. Priest. No. 1,352,832; Sept. 14; v. 278; p. 254.
Precious-stone setting. J. C. Whitehouse. No. 1,330,993; Feb. 17; v. 271; p. 409.
Preheater. R. W. Wiederwax. No. 1,338,472; Apr. 27; v. 273; p. 728.
Preheater for use in the chemical industry, especially the petroleum-tar industry. L. Steinschneider. No. 1,337,287; Apr. 20; v. 273; p. 435.
Preserving and protecting poles, Apparatus for. T. E. Lewis. No. 1,353,598; Sept. 21; v. 278; p. 464.
Preserving fruits and vegetables, Water-containing vessel for. L. Robichon. No. 1,360,024; Nov. 23; v. 280; p. 703.
Preserving-jar. W. F. Balcom. No. 1,342,039; June 1; v. 275; p. 84.
Preserving-jar. E. C. Gash. No. 1,359,357; Nov. 16; v. 280; p. 525.
Preserving-jar. A. E. Worster. No. 1,346,435; July 13; v. 276; p. 280.
Preserving-jars, Apparatus for sealing. A. E. Worster. No. 1,346,434; July 13; v. 276; p. 280.
Preserving jars, Device for fruit-. R. A. Dinkins. No. 1,357,155; Oct. 26; v. 279; p. 671.

Digitized by Google

Press: *See*—

Arbor-press.	Fruit and vegetable press.
Bag-packaging press.	Hay-press.
Baling-press.	Heel-press.
Barrel, wine, and lard press.	Horizontal-piercing press.
Block-press.	Leather-press.
Bosom-press.	Mandrel-press.
Box-press.	Offsetting-press.
Briqueting-press.	Oil-press.
Bundling-press.	Pants-press.
Compensating-press.	Power-press.
Cotton-press.	Printing-press.
Crate-press.	Printing platen-press.
Cross-bar-blanking press.	Pulp-press.
Die-press.	Punch-press.
Drawing-press.	Screw-press.
Dress-press.	Seal-press.
Drill-press.	Shoe-press.
Extrusion-press.	Stamping-press.
Filter-press.	Toggle-press.
Fluid-extracting press.	Veneer-press.
	Worm-press.

Press. J. R. Blakeslee. No. 1,362,595; Dec. 21; v. 281; p. 418.

Press. W. W. Camp. No. 1,349,318; Aug. 10; v. 277; p. 283.

Press. J. F. Comstock. No. 1,341,414; May 25; v. 274; p. 726.

Press. R. H. Gehrke. No. 1,339,193; May 4; v. 274; p. 100.

Press. C. H. Pierson and C. H. Butler. No. 1,352,987; Sept. 14; v. 278; p. 284.

Press. F. E. Stevenson. No. 1,357,258; Nov. 2; v. 280; p. 11.

Press-board for stacks of soles. J. A. Stone. No. 1,348,521; Aug. 3; v. 277; p. 75.

Press-body. P. A. Geier. No. 1,350,649; Aug. 24; v. 277; p. 662.

Press-feeding device, Automatic. W. H. Smith. No. 1,331,392; Feb. 17; v. 271; p. 483.

Press for imprinting and drying matrices. C. Winkler. No. 1,356,419; Oct. 19; v. 279; p. 480.

Press for removing bushings, &c. J. H. Staley. No. 1,352,098; Sept. 7; v. 278; p. 74.

Press-guard. A. F. Love and J. Nicoletti. No. 1,343,178; June 8; v. 275; p. 360.

Press mechanism. C. J. Nill. No. 1,333,671; Mar. 16; v. 272; p. 396.

Press or stamping-machine. F. M. Opitz. No. 1,341,721; June 1; v. 275; p. 21.

Press-plate. J. H. Angel. No. 1,349,544; Aug. 10; v. 277; p. 328.

Press-plate. A. W. French. No. 1,355,186; Oct. 12; v. 279; p. 188.

Presses, Air-blast pressure attachment for. W. Cottrell. No. 1,337,000; Apr. 13; v. 273; p. 806.

Presses and other machinery, Guard for. E. J. B. Danks. No. 1,358,528; Nov. 9; v. 280; p. 320.

Presses, Attachment for platen-. W. W. Coffee. No. 1,355,753; Oct. 12; v. 279; p. 309.

Presses, Automatic feed and delivery for platen-. P. L. Wells and F. W. Hunter. No. 1,363,200; Dec. 21; v. 281; p. 537.

Presses, Compression-box for oil-. M. B. Green. No. 1,347,455; July 20; v. 276; p. 540.

Presses, Compression-box for oil-. M. B. Green. No. 1,347,456; July 20; v. 276; p. 540.

Presses, Controlling device for punch-. W. J. Parkinson. No. 1,343,580; June 15; v. 275; p. 502.

Presses, Perforator attachment for. C. E. Ryder. No. 1,356,313; Oct. 19; v. 279; p. 460.

Presses, Filling system for. H. P. L. Laussucq. No. 1,357,330; Nov. 2; v. 280; p. 25.

Presses, Fluid-pressure power means for. R. A. Horne. No. 1,332,840; Mar. 2; v. 272; p. 31.

Presses, Lifting-cylinder valve for forging-. A. P. Bark. No. 1,343,024; June 8; v. 275; p. 330.

Presses, Magnetic feeding device for blanking-. R. S. Smith. No. 1,343,648; June 15; v. 275; p. 516.

Presses, Releasing and clutching mechanism for. J. Ulfeldt. No. 1,333,689; Mar. 16; v. 272; p. 399.

Presses, &c., Safety appliance for power-. W. Woelfel. No. 1,331,551; Feb. 24; v. 271; p. 583.

Presses, Safety attachment for power-. J. F. Lawson. No. 1,357,643; Nov. 2; v. 280; p. 83.

Presses, Steam-platen for. A. C. V. Malm. No. 1,355,236; Oct. 12; v. 279; p. 209.

Presser-foot. J. R. Moffatt and R. S. Kelso. No. 1,355,160; Oct. 12; v. 279; p. 194.

Pressing and ironing machine. G. Ritchie, Jr. No. 1,358,879; Nov. 16; v. 280; p. 435.

Pressing apparatus. J. J. Berrigan. No. 1,336,341; Apr. 6; v. 273; p. 120.

Pressing device. R. Benevento. No. 1,354,797; Oct. 5; v. 279; p. 70.

Pressing-machine. A. C. Austin. No. 1,335,151; Mar. 30; v. 272; p. 781.

Pressing-machine. A. C. Austin. No. 1,354,232; Sept. 28; v. 278; p. 635.

Pressing-machine. S. E. Baitary. No. 1,340,519; May 18; v. 274; p. 484.

Pressing-machine. D. H. Benjamin. No. 1,327,976; Jan. 13; v. 270; p. 266.

Pressing-machine. A. B. Pierce. No. 1,362,735; Dec. 21; v. 281; p. 446.

Pressing-machine-control mechanism. H. C. Hoting. No. 1,335,835; Apr. 6; v. 273; p. 25.

Pressing machine, Garment-. H. C. Spencer. No. 1,356,321; Oct. 19; v. 279; p. 462.

Pressure-actuated mechanism for operating valves. P. H. Hamilton. No. 1,362,991; Dec. 21; v. 281; p. 496.

Pressure-bar. O. A. Lawrence. No. 1,349,213; Aug. 10; v. 277; p. 262.

Pressure-bar mechanism. W. E. Moore. No. 1,346,045; July 6; v. 276; p. 142.

Pressure-controlling device. W. M. Jewell. No. 1,334,457; Mar. 23; v. 272; p. 589.

Pressure-gage. J. A. Bowden. No. 1,354,017; Sept. 28; v. 278; p. 591.

Pressure-gage. G. Brewer. No. 1,330,513; Feb. 10; v. 271; p. 250.

Pressure-gage. E. B. Crocker. No. 1,346,941; July 20; v. 276; p. 439.

Pressure-gage. W. M. Fulton. No. 1,344,340; June 22; v. 275; p. 716.

Pressure-gage. C. B. Hale. No. 1,330,466; Feb. 10; v. 271; p. 241.

Pressure-gage. H. Keynton. No. 1,333,549; Mar. 9; v. 272; p. 312.

Pressure-gage. C. J. Manning. No. 1,346,604; July 13; v. 276; p. 314.

Pressure-gage. O. Ohlson. No. 1,340,399; May 18; v. 274; p. 461.

Pressure-gage. J. W. Place. No. 1,345,630; July 6; v. 276; p. 59.

Pressure-gage. M. C. Schweinert. No. 1,352,698; Sept. 14; v. 278; p. 227.

Pressure-gage and alarm. W. B. Anderson. No. 1,363,216; Dec. 28; v. 281; p. 580.

Pressure-gage and pump connection. W. P. Hammond. No. 1,330,759; Feb. 10; v. 271; p. 296.

Pressure-gage and tire-valve. H. Gosstrom. No. 1,357,286; Nov. 2; v. 280; p. 17.

Pressure gage, Differential-. W. J. Crowell, Jr. No. 1,336,511; Apr. 13; v. 273; p. 211.

Pressure-gage, Differential. F. H. Hopkins. No. 1,363,415; Dec. 28; v. 281; p. 618.

Pressure-generating system. J. O. Carrey. No. 1,337,751; Apr. 20; v. 273; p. 523.

Pressure-indicator. M. R. Buchanan. No. 1,341,542; May 25; v. 274; p. 751.

Pressure-indicator. J. A. Green. No. 1,338,436; Apr. 27; v. 273; p. 721.

Pressure-regulating valve. O. M. Jones. No. 1,364,061; Dec. 28; v. 281; p. 743.

Pressure-regulator. L. Le Bras. No. 1,352,288; Sept. 7; v. 278; p. 110.

Pressure-regulator. J. McNamara. No. 1,335,903; Apr. 6; v. 273; p. 87.

Pressure-regulator. H. H. Macomber. No. 1,349,843; Aug. 17; v. 277; p. 459.

Pressure-regulator. G. W. Mann. No. 1,337,248; Apr. 20; v. 273; p. 427.

Pressure-regulator. H. Rosenthal. No. 1,332,069; Feb. 24; v. 271; p. 631.

Pressure-regulator. E. J. Schmidt. No. 1,343,160; June 8; v. 275; p. 357.

Pressure throttle control. F. M. Titus. No. 1,348,604; Aug. 3; v. 277; p. 92.

Price-marker system. H. and L. Hopp. No. 1,346,028; July 6; v. 276; p. 138.

Primary battery. C. B. Schoenmehl and M. L. Martus. No. 1,360,589; Nov. 30; v. 280; p. 882.

Primary battery. C. A. Xardell. No. 1,338,412; Apr. 27; v. 273; p. 717.

Primer-casing. J. V. McAdam. No. 1,362,021; Dec. 14; v. 281; p. 255.

Priming and testing cup. O. A. Smith. No. 1,327,687; Jan. 13; v. 270; p. 212.

Priming-cup. A. C. Dobrick. No. 1,332,944; Mar. 9; v. 272; p. 198.

Priming-cup. W. W. Harris. No. 1,339,883; May 11; v. 274; p. 307.

Priming-cup. W. W. Harris. No. 1,339,884; May 11; p. 274; p. 307.

Priming-cup. W. Grikscheit. No. 1,353,584; Sept. 21; v. 278; p. 461.

Priming-cup. W. Grikscheit. No. 1,360,108; Nov. 23; v. 280; p. 720.

Priming-cup. O. W. Olson. No. 1,358,237; Nov. 9; v. 280; p. 260.

Priming device. W. Heide. No. 1,337,226; Apr. 20; v. 273; p. 423.

Priming device. J. J. Hogan. No. 1,337,772; Apr. 20; v. 273; p. 527.

Priming device. P. J. McIntyre. No. 1,340,281; May 18; v. 274; p. 438.

Priming device. P. J. McIntyre. No. 1,355,837; Oct. 19; v. 279; p. 365.

Printer, Check-. A. Massi. No. 1,345,794; July 6; v. 276; p. 91.

Printer, Projection-. J. G. Capstaff. No. 1,361,012; Dec. 7; v. 281; p. 6.

Digitized by Google

Alphabetical list of inventions—Continued.

Printer-table for registers. B. P. Hayes and F. D. Laughlin. No. 1,362,791; Dec. 21; v. 281; p. 458.
Printer-table for registers. B. P. Hayes. No. 1,362,792; Dec. 21; v. 281; p. 458.
Printers' forms, Locking means for. L. J. Reichel and W. L. Warner. No. 1,330,613; Feb. 10; v. 271; p. 268.
Printers' forms, Locking means for. L. J. Reichel and W. L. Warner. No. 1,339,607; May 11; v. 274; p. 254.
Printer's gage. H. L. Rice. No. 1,333,576; Mar. 9; v. 272; p. 317.
Printer's leads mold. J. S. Bancroft and A. Leslie Knight. No. 1,355,879; Oct. 19; v. 279; p. 374.
Printer's plate-hook. J. W. Pitt and G. Sague. No. 1,348,663; Aug. 3; v. 277; p. 104.
Printer's quoin. A. B. Carty. No. 1,335,480; Mar. 30; v. 272; p. 842.
Printer's rack. T. Severson. No. 1,338,101; Apr. 27; v. 273; p. 659.
Printers' reducing-gage. C. H. Smith. No. 1,330,353; Feb. 10; v. 271; p. 220.
Printers' roller composition, Apparatus for the reclaiming of used. T. H. Grozier. No. 1,344,270; June 22; v. 275; p. 702.
Printer's table. E. L. and J. West. No. 1,343,600; June 15; v. 275; p. 506.
Printing and delivering machine, Transfer. C. N. Wade. No. 1,359,988; Nov. 23; v. 280; p. 686.
Printing and dispensing slips, Machine for. R. F. Downey. No. 1,361,234; Dec. 7; v. 281; p. 50.
Printing and embossing presses. Ink-saving device for intaglio. F. Waite. No. 1,351,545; Aug. 31; v. 277; p. 900.
Printing and folding machine. J. A. Boyce. No. 1,353,799; Sept. 21; v. 278; p. 504.
Printing and inking device. H. G. Davis. No. 1,340,380; May 18; v. 274; p. 458.
Printing apparatus. H. M. Borden. No. 1,333,009; Mar. 9; v. 272; p. 211.
Printing apparatus. D. F. Fesler and H. R. Hedman. No. 1,338,645; Apr. 27; v. 273; p. 760.
Printing apparatus. J. Gondek. No. 1,347,505; July 27; v. 276; p. 607.
Printing apparatus. O. G. Hebert. No. 1,330,374; Feb. 10; v. 271; p. 224.
Printing apparatus. H. J. Plant. No. 1,358,461; Nov. 9; v. 280; p. 307.
Printing-block, Juvenile. C. Monteith. No. 1,340,072; May 11; v. 274; p. 342.
Printing-couples, Adjustable bearer for. H. A. W. Wood. No. 1,338,347; Apr. 27; v. 273; p. 705.
Printing, cutting, and creasing presses, Adjustable chase and lock-up for. E. Karl. No. 1,353,758; Sept. 21; v. 278; p. 496.
Printing device. A. Duensing. No. 1,353,082; Sept. 14; v. 278; p. 293.
Printing device. G. Fussell. No. 1,335,491; Mar. 30; v. 272; p. 844.
Printing device. L. A. Stanley. No. 1,336,989; Apr. 13; v. 273; p. 304.
Printing device. J. Whitaker. No. 1,360,067; Nov. 23; v. 280; p. 711.
Printing elements and matrices therefor, Making. E. E. Novotny. No. 1,357,344; Nov. 2; v. 280; p. 28.
Printing-form. J. R. Rogers. No. 1,333,938; Mar. 16; v. 272; p. 445.
Printing-form, Ruled. A. G. Stevenson. No. 1,349,536; Aug. 10; v. 277; p. 326.
Printing-frame. D. F. Younkin. No. 1,338,894; May 4; v. 274; p. 45.
Printing, Lithographic plate for offset and direct. J. Grass. (Reissue.) No. 14,802; Feb. 10; v. 271; p. 298.
Printing-machine. W. M. Bacon. No. 1,338,165; Apr. 27; v. 273; p. 671.
Printing-machine. J. C. Blue. No. 1,355,531; Oct. 12; v. 279; p. 266.
Printing-machine. S. A. Busk. No. 1,339,099; May 4; v. 274; p. 84.
Printing-machine. H. L. Dodge. No. 1,344,489; June 22; v. 275; p. 746.
Printing-machine. J. Heberling. No. 1,338,366; Apr. 27; v. 273; p. 709.
Printing-machine. G. W. Mascord. No. 1,329,325; Jan. 27; v. 270; p. 585.
Printing-machine. H. J. Plant. No. 1,352,690; Sept. 14; v. 278; p. 225.
Printing-machine. C. M. Runyan. No. 1,354,918; Oct. 5; v. 279; p. 94.
Printing-machine. D. J. Scott and C. E. Drange. No. 1,339,526; May 11; v. 274; p. 239.
Printing-machine. J. A. Stoltman. No. 1,348,330; Aug. 3; v. 277; p. 40.
Printing-machine. W. L. Thompson. No. 1,330,662; Feb. 10; v. 271; p. 277.
Printing-machine. W. L. Thompson. No. 1,331,597; Feb. 24; v. 271; p. 542.
Printing-machine. W. L. Thompson. No. 1,360,155; Nov. 23; v. 280; p. 729.
Printing machine, Address-. E. P. Pay. No. 1,333,773; Mar. 16; v. 272; p. 415.
Printing machine, Block-. W. K. Harris. No. 1,333,308; Mar. 9; v. 272; p. 266.
Printing machine, Check-. T. W. R. McCabe. No. 1,353,926; Sept. 28; v. 278; p. 573.
Printing machine, Check-. C. H. Sampson. No. 1,341,976; May 25; v. 274; p. 661.
Printing machine, Fabric-. D. L. Snow. No. 1,342,722; June 8; v. 275; p. 269.
Printing-machine having an oscillating impression-cylinder. C. Winkler. No. 1,345,302; June 29; v. 275; p. 968.
Printing-machine, Rotary. C. Winkler. No. 1,328,219; Jan. 13; v. 270; p. 312.
Printing machine, Stencil-. J. O'Connor. No. 1,360,566; Nov. 30; v. 280; p. 878.
Printing machine, Web-. O. L. Raabe. No. 1,343,981; June 22; v. 275; p. 637.
Printing-machines, Automatic paper-layer for. P. Bieri. No. 1,331,977; Feb. 24; v. 271; p. 614.
Printing-machines, Delivery mechanism for. A. H. Smith. No. 1,342,187; June 1; v. 275; p. 113.
Printing-machines, Driving-gear for. C. Winkler. No. 1,328,220; Jan. 13; v. 270; p. 313.
Printing-machines, Driving mechanism for multicouple. O. L. Raabe. No. 1,356,171; Oct. 19; v. 279; p. 432.
Printing-machines, Ejector for. J. S. Duncan. No. 1,353,899; Sept. 28; v. 278; p. 567.
Printing-machines, Filling-in attachment for. E. Duscher. No. 1,343,170; June 8; v. 275; p. 359.
Printing-machines, Lock-bearing for the composition rollers of. C. Winkler. No. 1,329,217; Jan. 27; v. 270; p. 566.
Printing machines, Registering mechanism for form or plate cylinders of multicolor-. F. C. Marquardt. No. 1,328,842; Jan. 27; v. 270; p. 495.
Printing-machines, Sheet-delivery mechanism for. H. M. Barber. No. 1,356,900; Oct. 26; v. 279; p. 621.
Printing-machinery, Electric. G. W. Johnson. No. 1,351,655; Aug. 31; v. 277; p. 921.
Printing machinery, Multicolor-. J. F. Loughery. No. 1,349,895; Aug. 17; v. 277; p. 469.
Printing, Manufacture of copper plates for process-. S. O. Cowper-Coles. No. 1,362,082; Dec. 14; v. 281; p. 267.
Printing mechanism. G. M. Breckenridge. No. 1,336,988; Apr. 13; v. 273; p. 303.
Printing mechanism. P. M. Rainey. No. 1,362,639; Dec. 21; v. 281; p. 427.
Printing mechanism for cylindrical articles. E. S. Bradford. No. 1,351,830; Sept. 7; v. 278; p. 28.
Printing numbered bands. G. J. McClosky. No. 1,341,186; May 25; v. 274; p. 682.
Printing on paper cloth, and other material. J. M. Cooper. No. 1,359,034; Nov. 16; v. 280; p. 464.
Printing or reproducing addresses and other typed or written matter, Machine for. A. de Brayer. No. 1,349,807; Aug. 17; v. 277; p. 452.
Printing-plate and making same. I. W. Litchfield. No. 1,351,954; Sept. 7; v. 278; p. 48.
Printing-plate clamp. W. M. Evensen. No. 1,344,989; June 29; v. 275; p. 898.
Printing-plate clamp. W. M. Evensen. No. 1,350,015; Aug. 17; v. 277; p. 492.
Printing-plate, Intaglio. J. A. Corey. No. 1,339,741; May 11; v. 274; p. 280.
Printing-plate, Lithographic and offset. E. E. Novotny. No. 1,357,340; Nov. 2; v. 280; p. 27.
Printing-plate molds, Making. E. E. Novotny. No. 1,356,217; Oct. 19; v. 279; p. 441.
Printing plates and saddles, Holding means for. E. E. Novotny. No. 1,357,341; Nov. 2; v. 280; p. 27.
Printing-plates by direct contact or projection printing, Combination-machine for making photoprints on. H. C. Boedicker. No. 1,327,752; Jan. 13; v. 270; p. 225.
Printing-plates, Casting and finishing apparatus for curved stereotype. H. A. W. Wood. No. 1,332,531; Mar. 2; v. 272; p. 69.
Printing-plates, Casting, finishing, and cooling apparatus for curved stereotype. H. A. W. Wood. No. 1,332,532; Mar. 2; v. 272; p. 69.
Printing-plates, Forming curved. F. H. Berold. No. 1,331,140; Feb. 17; v. 271; p. 436.
Printing-plates, Holding device for. J. C. Mast. No. 1,343,220; June 15; v. 275; p. 483.
Printing-plates, Machine for casting, finishing, and cooling stereotype. H. A. W. Wood. No. 1,341,608; May 25; v. 274; p. 763.
Printing-plates, Machine for finishing stereotype. C. E. Hopkins. No. 1,346,601; July 13; v. 276; p. 313.
Printing-plates, Making. E. Leitner. No. 1,329,088; Jan. 27; v. 270; p. 541.
Printing-plates, Manufacture of. E. E. Novotny. No. 1,339,127; May 4; v. 274; p. 90.
Printing-plates, Means for preventing creeping of. C. Nordfors. No. 1,344,648; June 29; v. 275; p. 843.
Printing-plates, Preparing. A. J. Hain. No. 1,346,885; July 20; v. 276; p. 428.
Printing-plates to cylinders, Attaching. C. E. Drange. No. 1,360,377; Nov. 30; v. 280; p. 840.
Printing-plates to cylinders, Means for attaching. C. E. Drange. No. 1,360,378; Nov. 30; v. 280; p. 840.
Printing platen-press, Web-. F. Waite. No. 1,356,242; Oct. 19; v. 279; p. 446.
Printing, Preparing plates for. M. Lichter. No. 1,348,019; July 27; v. 276; p. 710.
Printing-press. R. Adams. No. 1,328,253; Jan. 20; v. 270; p. 355.

Digitized by Google

Alphabetical list of inventions—Continued.

Printing-press. J. A. Allen. No. 1,337,186; Apr. 20; v. 273; p. 416.
Printing-press. M. A. Droitcour. No. 1,356,051; Oct. 19; v. 279; p. 407.
Printing-press. C. L. Friel. No. 1,347,627; July 27; v. 276; p. 631.
Printing-press. G. Fussell. No. 1,363,464; Dec. 28; v. 281; p. 627.
Printing-press. W. Grass. No. 1,358,843; Nov. 16; v. 280; p. 427.
Printing-press. W. M. Kelly. No. 1,336,841; Apr. 13; v. 272; p. 276.
Printing-press. F. J. Lehr. No. 1,351,175; Aug. 31; v. 277; p. 825.
Printing-press. L. Meyer. No. 1,359,720; Nov. 23; v. 280; p. 643.
Printing-press. I. F. Niles. No. 1,355,844; Oct. 19; v. 279; p. 367.
Printing-press. M. S. Rosenfeld. No. 1,331,579; Feb. 24; v. 271; p. 588.
Printing-press. B. C. Stickney. No. 1,349,861; Aug. 17; v. 277; p. 463.
Printing-press. E. O. Stumpf. No. 1,331,449; Feb. 17; v. 271; p. 493.
Printing-press. B. F. Upham. No. 1,348,253; Aug. 3; v. 277; p. 25.
Printing-press. E. T. Waters. No. 1,360,063; Nov. 23; v. 280; p. 711.
Printing-press. J. White. No. 1,341,693; June 1; v. 275; p. 16.
Printing-press. H. A. W. Wood. No. 1,327,580; Jan. 6; v. 270; p. 131.
Printing-press attachment. W. R. Hildebrand. No. 1,358,152; Nov. 9; v. 280; p. 244.
Printing-press chase. C. H. Weant. No. 1,347,312; July 20; v. 276; p. 512.
Printing-press drier. R. Nitch. No. 1,360,012; Nov. 23; v. 280; p. 701.
Printing-press impression-cylinder. J. J. Walser. No. 1,340,194; May 18; v. 274; p. 423.
Printing-press inking device. H. L. Sargent. No. 1,358,021; Nov. 9; v. 280; p. 218.
Printing-press, Inking-roll truck for. J. H. Schussler. No. 1,342,355; June 1; v. 275; p. 145.
Printing-press, Planographic. W. K. Hodgman. No. 1,347,006; July 27; v. 276; p. 707.
Printing-press roller. L. La Tour and A. F. Munnell. No. 1,345,200; June 29; v. 275; p. 948.
Printing-press tripping mechanism. J. R. Blaine. No. 1,339,316; May 4; v. 274; p. 122.
Printing press, Web-. A. E. Dowell. No. 1,348,553; Aug. 3; v. 277; p. 82.
Printing-presses, Actuating device for the throw-off mechanism of. C. A. Soderlund. No. 1,359,442; Nov. 16; v. 280; p. 543.
Printing-presses, Automatic feeder for. C. L. Welsh. No. 1,360,699; Nov. 30; v. 280; p. 904.
Printing presses, Automatic scraper control for roto-gravure-. C. G. Pritchard. No. 1,362,688; Dec. 21; v. 281; p. 427.
Printing-presses, Buffer for. E. F. Dudley. No. 1,344,683; June 29; v. 275; p. 849.
Printing-presses, Chromo-roller for. M. G. Murufas. No. 1,358,662; Sept. 21; v. 278; p. 477.
Printing-presses, Cylinder-adjusting mechanism for G. A. Friess. No. 1,330,793; Feb. 17; v. 271; p. 370.
Printing-presses, Cylinder-driving mechanism for. H. F. Bechman. No. 1,359,862; Nov. 23; v. 280; p. 671.
Printing-presses, Device for preventing offset in. A. B. Beck. No. 1,336,995; Apr. 13; v. 273; p. 305.
Printing-presses, Feed-gage for. C. L. Stiles. (Reissue.) No 14,963; Oct. 19; v. 279; p. 498.
Printing-presses, Feeding web to. H. F. Bechman. No. 1,359,863; Nov. 23; v. 280; p. 671.
Printing-presses, Flat-sheet-delivery mechanism for. H. M. Barber. No. 1,357,680; Nov. 2; v. 280; p. 91.
Printing-presses, Gripper for. F. Casper. No. 1,347,616; July 27; v. 276; p. 620.
Printing-presses, Gripper for. A. S. Korob. No. 1,353,808; Sept. 21; v. 278; p. 505.
Printing-presses, Guard for. D. Curry. No. 1,351,997; Sept. 7; v. 278; p. 56.
Printing-presses, Hand-guard for. S. Kupfer. No. 1,338,780; May 4; v. 274; p. 25.
Printing-presses, Ink-fountain for. J. F. Parham. No. 1,334,469; Mar. 23; v. 272; p. 591.
Printing-presses, Inking mechanism for. H. M. Barber. No. 1,341,627; June 1; v. 275; p. 3.
Printing-presses, Inking mechanism for. R. S. Tyler. No. 1,352,159; Sept. 7; v. 278; p. 86.
Printing-presses, Inking-roller carriage for. W. J. Ramsaier. No. 1,334,964; Mar. 30; v. 272; p. 745.
Printing-presses, Means for associating sheet-feeding mechanism with. R. E. Kemper. No. 1,357,459; Nov. 2; v. 280; p. 49.
Printing-presses, Moistening device for. W. B. Pitkin. No. 1,335,025; Mar. 30; v. 272; p. 757.
Printing-presses, Moistening device for. W. B. Pitkin. No. 1,335,026; Mar. 30; v. 272; p. 758.
Printing-presses, Motor-support for. F. S. English. No. 1,357,489; Nov. 2; v. 280; p. 54.
Printing-presses, Multiple punching attachment for platen. W. C. Dillingham. No. 1,362,088; Dec. 14; v. 281; p. 268.
Printing-presses, Offset mechanism for. J. J. Walser. No. 1,331,783; Feb. 24; v. 271; p. 567.
Printing-presses, Plate-clamping device for. H. F. Bechman. No. 1,336,721; Apr. 13; v. 273; p. 253.
Printing-presses, Roller-adjustment for. S. M. Weatherly and H. J. Stach. No. 1,337,574; Apr. 20; v. 273; p. 488.
Printing-presses, Roller-carriage for. E. P. Jennings. No. 1,355,979; Oct. 19; v. 279; p. 393.
Printing-presses, Safety device for. H. A. W. Wood. No. 1,340,355; May 18; v. 274; p. 453.
Printing-presses, Sheet-delivery mechanism for. H. M. Barber. No. 1,353,509; Sept. 21; v. 278; p. 446.
Printing-presses, Sheet-feeding mechanism for. R. Hoe. No. 1,328,877; Jan. 27; v. 270; p. 502.
Printing-presses, Sheet-guide for. C. F. Huneycutt. No. 1,342,113; June 1; v. 275; p. 98.
Printing-presses, Tripping mechanism for. F. H. Berold. No. 1,357,945; Nov. 9; v. 280; p. 203.
Printing-presses, Web-tension brake mechanism for. T. J. Beregh. No. 1,342,525; June 8; v. 275; p. 231.
Printing-presses, Winding mechanism for. O. V. Dutro and A. S. Burroughs. No. 1,353,948; Sept. 28; v. 278; p. 577.
Printing-roller composition. A. L. Freedlander. No. 1,344,631; June 29; v. 275; p. 839.
Printing-rolls, Apparatus for covering. A. H. Lee. No. 1,355,481; Oct. 12; v. 279; p. 257.
Printing-stamp, Self-inking. G. A. W. Rushworth. No. 1,345,255; June 29; v. 275; p. 958.
Printing surfaces and making same, Master-sheet for lithographic-. A. Grass. No. 1,333,544; Mar. 9; v. 272; p. 311.
Printing-surfaces, Art and apparatus for making. S. H. Horgan. No. 1,340,342; May 18; v. 274; p. 450.
Printing upon nuts, &c., Machine for. H. Varble. No. 1,334,822; Mar. 23; v. 272; p. 655.
Prism, Polarizing-. G. Brodsky. No. 1,358,418; Nov. 9; v. 280; p. 297.
Producers, Device for removing ashes from. F. Heller and A. Hartelt. No. 1,363,116; Dec. 21; v. 281; p. 520.
Production and material control system, Means employed in. E. H. Bickley. No. 1,350,955; Aug. 24; v. 277; p. 720.
Production of reciprocating movements. S. Sunderland and A. M. Midgeley. No. 1,363,624; Dec. 28; v. 281; p. 659.
Projectile. L. J. Barthelemy. No. 1,333,199; Mar. 9; v. 272; p. 246.
Projectile. G. Bessière. No. 1,327,372; Jan. 6; v. 270; p. 91.
Projectile. K. Dougan. No. 1,327,655; Jan. 13; v. 270; p. 206.
Projectile. K. Dougan. No. 1,341,844; June 1; v. 275; p. 46.
Projectile. C. Durham. No. 1,327,531; Jan. 6; v. 270; p. 122.
Projectile. C. Janes. No. 1,329,972; Feb. 3; v. 271; p. 117.
Projectile. L. Kobuchi. No. 1,330,079; Feb. 10; v. 271; p. 169.
Projectile. C. Newton. No. 1,328,334; Jan. 20; v. 270; p. 371.
Projectile. M. Radakovich. No. 1,343,747; June 15; v. 275; p. 536.
Projectile. W. F. Roos. No. 1,351,540; Aug. 31; v. 277; p. 899.
Propeller. E. S. Showers. No. 1,327,066; Jan. 6; v. 270; p. 35.
Projectile. B. E. Taylor. No. 1,335,406; Mar. 30; v. 272; p. 828.
Projectile. W. Ulrich. No. 1,356,840; Oct. 26; v. 279; p. 610.
Projectile. P. Van Deuren. No. 1,360,602; Nov. 30; v. 280; p. 885.
Projectile and means for firing said projectile. J. W. Darley, Jr. No. 1,344,992; June 29; v. 275; p. 907.
Projectile, Armor-piercing. H. B. Strong. No. 1,351,498; Aug. 31; v. 277; p. 890.
Projectile, Bomb-thrower. E. Schneider. No. 1,347,125; July 20; v. 276; p. 475.
Projectile, Explosive. L. S. Clarke. No. 1,357,927; Nov. 2; v. 280; p. 139.
Projectile-firing. H. Csanyi. No. 1,358,296; Nov. 9; v. 280; p. 272.
Projectile, Gas-. F. H. and W. H. Livens. No. 1,335,343; Mar. 30; v. 272; p. 817.
Projectile-throwing mechanism. C. H. Fitzpatrick. No. 1,356,858; Oct. 26; v. 279; p. 613.
Projectiles, Detonating device for. R. Kerr. No. 1,331,648; Feb. 24; v. 271; p. 551.
Projectiles from moving carriers, Method of and apparatus for releasing. E. Becker. No. 1,332,022; Feb. 24; v. 271; p. 622.
Projectiles, Furnace for heat treatment of armor-piercing. F. C. Langenberg and J. F. Fetterly. No. 1,358,755; Nov. 16; v. 280; p. 410.
Projectiles, Guide-ring for. H. Jezler. No. 1,361,158; Dec. 7; v. 281; p. 35.
Projectiles, Percussion-fuse for. E. Schneider. No. 1,352,543; Sept. 14; v. 278; p. 195.
Projectiles, Percussion-fuse for. E. Schneider. No. 1,352,544; Sept. 14; v. 278; p. 195.

Digitized by Google

Projectiles, shells, and other hollow bodies, Manufacture of armor-piercing. R. A. Hadfield and A. G. McKenzie. No. 1,358,199; Nov. 9; v. 280; p. 253.
Projecting apparatus. C. De Proszynski. No. 1,357,621; Nov. 2; v. 280; p. 79.
Projecting apparatus. G. L. Trueblood. No. 1,349,640; Aug. 17; v. 277; p. 420.
Projection apparatus. H. T. Flanigan. No. 1,329,892; Feb. 3; v. 271; p. 103.
Projection apparatus. L. de Hernández. No. 1,344,682; June 29; v. 275; p. 849.
Projection apparatus. H. N. Ott, and F. H. Bufton. No. 1,341,665; June 1; v. 275; p. 10
Projection apparatus. H. N. Ott and F. H. Bufton. No. 1,341,666; June 1; v. 275; p. 10.
Projection-objectives, Adjusting means for. H. N. Ott, and F. H. Bufton. No. 1,341,667; June 1; v. 275; p. 10.
Projector. E. L. Gilmore. No. 1,345,084; June 29; v. 275; p. 925.
Projector. E. L. Gilmore. No. 1,354,823; Oct. 5; v. 279; p. 75.
Projector. E. W. Nelson. No. 1,336,479; Apr. 13; v. 273; p. 206.
Projector, Automatic. W. L. Patterson. No. 1,352,471; Sept. 14; v. 278; p. 181.
Projectors, Focusing device for. J. W. Knoblock. No. 1,341,472; May 25; v. 274; p. 738.
Projectors, Optical system for. W. Churchill. No. 1,363,566; Dec. 28; v. 281; p. 648.
Propeller. V. F. Boehm. No. 1,359,150; Nov. 16; v. 280; p. 485.
Propeller. H. Faehrmann. No. 1,355,321; Oct. 12; v. 279; p. 226.
Propeller. H. Faehrmann. No. 1,358,430; Nov. 9; v. 280; p. 301.
Propeller. F. Foley. No. 1,355,758; Oct 12; v. 279; p. 310.
Propeller. F. J. Gallagher. No. 1,331,101; Feb. 17; v. 271; p. 429.
Propeller. P. J. Griffin. No. 1,360,933; Nov. 30; v. 280; p. 949.
Propeller. E. La Fleur. No. 1,363,660; Dec. 28; v. 281; p. 665.
Propeller. J. L. Musante. No. 1,333,126; Mar. 9; v. 272; p. 232.
Propeller. W. D. Oddy. No. 1,362,032; Dec. 14; v. 281; p. 257.
Propeller. V. Olhovsky. No. 1,346,508; July 13; v. 276; p. 295.
Propeller. R. C. Pratt. No. 1,345,237; June 29; v. 275; p. 955.
Propeller. C. L. Sanford. No. 1,357,348; Nov. 2; v. 280; p. 28.
Propeller. B. Schmelzer. No. 1,331,586; Feb. 24; v. 271; p. 540.
Propeller. E. J. Youngquist. No. 1,349,403; Aug. 10; v. 277; p. 300.
Propeller, Adjustable. J. H. Beldin. No. 1,331,045; Feb. 17; v. 271; p. 419.
Propeller, Automatic air and water. A. A. Ake. No. 1,330,296; Feb. 10; v. 271; p. 209.
Propeller-blade. V. H. Leinweber. No. 1,344,640; June 29; v. 275; p. 841.
Propeller-blade-adjusting mechanism. H. D. Peoples and G. W. Bidykoffer. No. 1,329,473; Feb. 3; v. 271; p. 25.
Propeller-blades, Apparatus for machining. S. Heath. No. 1,363,972; Dec. 28; v. 281; p. 726.
Propeller-blades, Protector for. S. Heath. No. 1,339,886; May 11; v. 274; p. 307.
Propeller, Duplex. S. K. Sherwood. No. 1,330,145; Feb. 10; v. 271; p. 181.
Propeller for operation in air. E. W. Bowen. No. 1,331,612; Feb. 24; v. 271; p. 545.
Propeller hubs upon their shafts, Means for fitting up screw-. A. Maire. No. 1,346,665; July 13; v. 276; p. 326.
Propeller, Marine. T. S. Cogliolo. No. 1,352,877; Sept. 14; v. 278; p. 263.
Propeller, Marine. E. Sievart. No. 1,349,981; Aug. 17; v. 277; p. 485.
Propeller-mounting. E. J. Hall. No. 1,349,758; Aug. 17; v. 277; p. 443.
Propeller-pitch, Mechanism for adjusting. W. L. Hubbard. No. 1,350,312; Aug. 24; v. 277; p. 596.
Propeller, Reversing-. A. R. Lyons. No. 1,348,432; Aug. 3; v. 277; p. 60.
Propeller, Rubber. M. C. St. John. No. 1,360,596; Nov. 30; v. 280; p. 884.
Propeller, Screw-. H. Leitner. No. 1,328,004; Jan. 13; v. 270; p. 271.
Propeller, Screw-. H. Leitner. No. 1,328,005; Jan. 13; v. 270; p. 271.
Propeller-shafts, Flexible coupling for. R. A. Patrick. No. 1,328,893; Jan. 27; v. 270; p. 505.
Propeller-testing device. W. S. Bowen. No. 1,351,738; Sept. 7; v. 278; p. 5.
Propeller, Variable-pitch. R. M. Howard. No. 1,337,183; Apr. 13; v. 273; p. 331.
Propeller, Variable-pitch. H. E. Weaver. No. 1,328,241; Jan. 13; v. 270; p. 317.
Propellers, Apparatus for cutting helical. C. H. Grant. No. 1,333,912; Mar. 16; v. 272; p. 440.
Propellers, Apparatus for use in molding. D. A. Dickey. No. 1,358,712; Nov. 16; v. 280; p. 401.
Propellers, Arrangement for driving ships'. C. L. H. Wittmaack. No. 1,336,770; Apr. 13; v. 273; p. 261.
Propellers, Hub-bushing for molding composite. D. A. Dickey. No. 1,363,723; Dec. 28; v. 281; p. 678.
Propellers, Machine for making aeroplane-. J. L. Simmons. No. 1,336,659; Apr. 13; v. 273; p. 240.
Propellers, Manufacture of. J. J. Kerr. No. 1,345,859; July 6; v. 276; p. 104.
Propelling apparatus. B. Koleroff. No. 1,362,997; Dec. 21; v. 281; p. 497.
Propelling device. H. T. Brant and H. M. Turner. No. 1,331,952; Feb. 24; v. 271; p. 609.
Propelling mechanism. F. F. Simons. No. 1,355,109; Oct. 5; v. 279; p. 131.
Propelling mechanism. E. Spitler. No. 1,332,475; Mar. 2; v. 272; p. 57.
Propelling, tractive, and supporting apparatus. T. Vuia. No. 1,347,424; July 20; v. 276; p. 535.
Propulsion means. D. A. Trotta. No. 1,338,115; Apr. 27; v. 273; p. 661.
Propulsion mechanism. L. A. Sprague. No. 1,352,922; Sept. 14; v. 278; p. 271.
Prosthesis. A. C. S. Angel. No. 1,331,974; Feb. 24; v. 271; p. 618.
Protective covering, Convertible. E. M. Law. No. 1,346,320; July 13; v. 276; p. 258.
Protective device. J. J. Linebaugh. No. 1,334,869; Mar. 23; v. 272; p. 668.
Protective device. D. T. May. No. 1,362,337; Dec. 14; v. 281; p. 317.
Protecting device. R. Van Dohlan. No. 1,355,719; Oct. 12; v. 279; p. 302.
Protective device. E. B. Wedmore. No. 1,341,488; May 25; v. 274; p. 741.
Protective device. E. B. Wedmore. No. 1,343,018; June 8; v. 275; p. 329.
Protective means for systems of distribution. D. Basch. No. 1,347,772; July 27; v. 276; p. 661.
Protective system. O. C. Traver. No. 1,341,486; May 25; v. 274; p. 741.
Protector for closet-seats. T. L. I. Carlson. No. 1,363,085; Dec. 21; v. 281; p. 514.
Protector, Reference-stake. J. T. Weldon. No. 1,363,826; Dec. 28; v. 281; p. 698.
Proteids from waste liquors of the hide-treating art, Recovery of. C. L. Peck. No. 1,347,822; July 27; v. 276; p. 670.
Proteids from waste liquors of the hide-treating art, Recovery of. C. L. Peck. No. 1,347,823; July 27; v. 276; p. 670.
Protein and phosphate of calcium and magnesium from acid waste waters, Recovering. A. Giesecke. No. 1,354,822; Oct. 5; v. 279; p. 75.
Protein and phosphates of calcium and magnesium from acid waste waters, Recovering. A. Giesecke. No. 1,348,990; Aug. 10; v. 277; p. 218.
Protractor. B. K. Fisher. No. 1,350,273; Aug. 17; v. 277; p. 542.
Protractor. J. Neumaier. No. 1,329,005; Jan. 27; v. 270; p. 526.
Prune-pitting machine. B. W. Scott. No. 1,329,023; Jan. 27; v. 270; p. 529.
Prune-treating machine. A. Hilfiker. No. 1,346,315; July 13; v. 276; p. 257.
Prunes, Packing dried. C. F. Fleming. No. 1,356,614; Oct. 26; v. 279; p. 565.
Pruning implement. N. E. Dragus. No. 1,338,216; Apr. 27; v. 273; p. 680.
Pruning implement. T. A. Thompson. No. 1,362,273; Dec. 14; v. 281; p. 305.
Puddle-balls and furnaces therefor, Making. F. F. Waechter. No. 1,340,690; May 18; v. 274; p. 517.
Puddling iron. T. F. Payne. No. 1,342,694; June 8; v. 275; p. 264.
Puff-iron. B. Schindler and J. G. Viertel. No. 1,361,623; Dec. 7; v. 281; p. 130.
Pug-mill knife. F. O. Rush. No. 1,347,876; July 27; v. 276; p. 681.
Puller: *See*—
Automobile-wheel puller.
Bearing-puller.
Beet-puller.
Cork-puller.
Cotter-pin puller.
Gear-puller.
Joint-puller.
Pin-puller.
Pipe-puller.
Plate-puller.
Rod-puller.
Roller-bearing-sleeve puller.
Spike-puller.
Staple and nail puller.
Stopper-puller.
Stump-puller.
Tire-tread puller.
Wheel-puller.
Wheel and gear puller.
Puller-clamp. I. A. Weaver. No. 1,332,277; Mar. 2; v. 272; p. 19.
Puller, Repair-hub and wheel-. C. N. Strader. No. 1,346,857; July 20; v. 276; p. 422.
Pulling and lifting device. S. Santino. No. 1,339,581; May 11; v. 274; p. 249.
Pulling and lowering implement. J. S. Clarke. No. 1,331,414; Feb. 17; v. 271; p. 487.

Digitized by Google

Pulling apparatus. C. H. Wallick. No. 1,331,298; Feb. 17; v. 271; p. 464.
Pulling implement. G. E. Friss and J. D. Wiltshire. No. 1,347,809; July 27; v. 276; p. 668.
Pulling implement. J. W. Porch. No. 1,326,965; Jan. 6; v. 270; p. 16.
Pulling-machine. W. C. Boos. No. 1,332,024; Feb. 24; v. 271; p. 628.
Pulling-machine. J. H. Schott. No. 1,327,492; Jan. 6; v. 270; p. 114.
Pulling machine, Upper-. E. Brothers and J. T. Lancaster. No. 1,333,536; Mar. 9; v. 272; p. 309.
Pulling-over and like machine. C. M. Bagshaw. No. 1,347,929; July 27; v. 276; p. 691.
Pulling-over machine. I. A. Cook. No. 1,356,516; Oct. 26; v. 279; p. 546.
Pulling-over machine. J. T. Lancaster. No. 1,333,537; Mar. 9; v. 272; p. 309.
Pulling-over machine. R. F. McFeely. No. 1,356,538; Oct. 26; v. 279; p. 550.
Pulling-over machine. R. F. McFeely. No. 1,356,642; Oct. 26; v. 279; p. 570.
Pulling-over machine. E. J. Ray. No. 1,356,887; Oct. 26; v. 279; p. 618.
Pulling-over machine. F. Ricks. No. 1,346,256; July 13; v. 276; p. 245.
Pulley. H. J. Gilbert. No. 1,363,772; Dec. 28; v. 281; p. 687.
Pulley. R. L. Herbst. No. 1,348,415; Aug. 3; v. 277; p. 56.
Pulley. H. C. La Ganke. No. 1,340,618; Aug. 17; v. 277; p. 416.
Pulley-blocks. N. D. Levin. No. 1,339,931; May 11; v. 274; p. 316.
Pulley. J. T. Sandberg. No. 1,359,842; Nov. 23; v. 280; p. 667.
Pulley. A. Sgritta. No. 1,353,074; Sept. 14; v. 278; p. 301.
Pulley. C. R. Short. No. 1,330,911; Feb. 17; v. 271; p. 393.
Pulley. M. F. Williams. No. 1,334,511; Mar. 23; v. 272; p. 599.
Pulley and like element. F. H. Johnston and J. C. Christenson. No. 1,331,156; Feb. 17; v. 271; p. 439.
Pulley and like element. F. H. Johnston and J. C. Christensen. No. 1,337,135; Apr. 13; v. 273; p. 831.
Pulley and like element. F. H. Johnston and J. C. Christensen. No. 1,337,136; Apr. 13; v. 273; p. 832.
Pulley attachment. C. A. Brown. No. 1,359,321; Nov. 16; v. 280; p. 519.
Pulley attachment device. J. W. Marshall. No. 1,337,249; Apr. 20; v. 273; p. 427.
Pulley, Belt-. W. Hamm. No. 1,356,917; Oct. 26; v. 279; p. 625.
Pulley, Belt-. I. F. Webb. No. 1,331,173; Feb. 17; v. 271; p. 442.
Pulley-block, Insulated. J. H. Flynn, Jr. No. 1,359,046; Nov. 16; v. 280; p. 466.
Pulley, brake, and grip. A. Vanderdonck. No. 1,345,292; June 29; v. 275; p. 966.
Pulley, Centrifugally-governed clutch-. G. D. Harris. (Reissue.) No. 14,857; May 18; v. 274; p. 549.
Pulley, Clothesline-. R. C. Meisterknecht. No. 1,330,645; Feb. 10; v. 271; p. 274.
Pulley construction. J. B. Castinto. No. 1,362,778; Dec. 21; v. 281; p. 455.
Pulley, Crank-shaft transmission-. J. W. B. Ladd and R. E. Rich. No. 1,341,914; June 1; v. 275; p. 59.
Pulley, Friction clutch-. C. R. Pieper. No. 1,333,131; Mar. 9; v. 272; p. 233.
Pulley, Friction-clutch. A. E. Rhoades. No. 1,340,559; May 18; v. 274; p. 492.
Pulley-guard. O. H. and A. F. Pieper. No. 1,348,240; Aug. 3; v. 277; p. 22.
Pulley, Loose. J. P. Lamy. No. 1,331,440; Feb. 17; v. 271; p. 492.
Pulley-plate. E. H. Hamilton. No. 1,346,747; July 13; v. 276; p. 342.
Pulley, Pressed-steel. J. R. Marchesseault. No. 1,329,790; Feb. 3; v. 271; p. 88.
Pulley, Reversible. A. Brantegan. No. 1,360,003; Dec. 7; v. 281; p. 4.
Pulley-rim. P. R. Eklund. No. 1,331,489; Feb. 24; v. 271; p. 521.
Pulley, Sash-. J. H. Foote. No. 1,361,240; Dec. 7; v. 281; p. 51.
Pulley, Self-cleaning. W. J. Black. No. 1,335,421; Mar. 30; v. 272; p. 831.
Pulley, Self-oiling. E. W. Lawrence. No. 1,354,768; Oct. 5; v. 279; p. 64.
Pulley, Split. H. T. Adams and H. Altmayer. No. 1,351,197; Aug. 31; v. 277; p. 830.
Pulley, Split. J. A. Misener. No. 1,359,822; Nov. 23; v. 280; p. 663.
Pulley, Split. G. E. St. John and C. Bowman. No. 1,352,761; Sept. 14; v. 278; p. 239.
Pulley, Telescoping. H. Kocourek. No. 1,363,471; Dec. 28; v. 281; p. 629.
Pulley, Variable-speed clutch-. J. H. Littler. No. 1,330,080; Feb. 10; v. 271; p. 169.
Pulleys, Bearing for loose. C. F. Pearson. No. 1,338,091; Apr. 27; v. 273; p. 657.
Pulleys, Combined hanger and guard for. C. Steenstrup. No. 1,362,362; Dec. 14; v. 281; p. 322.
Pulleys, Device for babbitting. C. Halverson. No. 1,343,128; June 8; v. 275; p. 351.
Pulleys, Drive-belt for. A. Bloesinger and F. D. Howe. No. 1,347,674; July 27; v. 276; p. 640.
Pulleys, Rope-lock for. A. J. Bergeron. No. 1,346,696; July 13; v. 276; p. 332.
Pulleys, Universal lock and release for. G. T. Hills. No. 1,345,673; July 6; v. 276; p. 68.
Pulp and cellulose manufacture, Process of and means for removing water from the pulp sheet in the wood. R. E. Wagner. No. 1,347,723; July 27; v. 276; p. 651.
Pulp, Apparatus and process for producing. H. E. Ellis. No. 1,344,625; June 29; v. 275; p. 838.
Pulp, Apparatus for extracting water from wood. R. E. Wagner. No. 1,347,724; July 27; v. 276; p. 651.
Pulp, Apparatus for producing articles from. W. H. Drake. (Reissue.) No. 14,973; Oct. 26; v. 279; p. 683.
Pulp articles, Apparatus for molding. B. R. Williamson. No. 1,360,847; Nov. 30; v. 280; p. 933.
Pulp articles, Transferring mechanism for machines for molding. B. R. Williamson. No. 1,360,848; Nov. 30; v. 280; p. 933.
Pulp-canal file. W. W. Bolls. No. 1,353,019; Sept. 14; v. 278; p. 290.
Pulp distributer, Rock-. W. T. Varney. No. 1,342,727; June 8; v. 275; p. 271.
Pulp, Grinding-apparatus for manufacture of wood-. P. C. Schaanning. No. 1,342,231; June 1; v. 275; p. 122.
Pulp having wax-impregnated fibers, Preparing. F. B. Davidson. No. 1,344,620; June 29; v. 275; p. 837.
Pulp heating and agitating apparatus. P. Somerville. No. 1,341,287; May 25; v. 274; p. 701.
Pulp hollow ware, Machine for forming. W. H. Fulcher. No. 1,353,578; Sept. 21; v. 278; p. 460.
Pulp hollow ware, Method and apparatus for drying. J. J. Eldridge and G. A. Dunn. No. 1,352,404; Sept. 7; v. 278; p. 131.
Pulp liquor, Refining raw wood-. P. Hein. No. 1,344,691; June 29; v. 275; p. 851.
Pulp-machine. J. G. Carrier. No. 1,344,178; June 22; v. 275; p. 688.
Pulp-machine, Wet. H. A. Constantine. No. 1,344,024; June 22; v. 275; p. 654.
Pulp, Magazine grinding apparatus for manufacture of wood-. P. C. Schaanning. No. 1,341,156; May 25; v. 274; p. 676.
Pulp, Preparing. C. Bache-Wiig. No. 1,327,221; Jan. 6; v. 270; p. 65.
Pulp-press. A. Wertenbruch. No. 1,354,528; Oct. 5; v. 279; p. 16.
Pulp-refiner. H. F. Storrer. No. 1,346,277; July 13; v. 276; p. 250.
Pulp remover, Corn-. W. Olcott. No. 1,345,456; July 6; v. 276; p. 25.
Pulp-screen. K. Wandel. No. 1,327,126; Jan. 6; v. 270; p. 46.
Pulp-screen, Centrifugal. G. F. Shevlin. No. 1,331,587; Feb. 24; v. 271; p. 540.
Pulp separators, Automatic density-indicator for slime-. C. Allen. No. 1,344,370; June 22; v. 275; p. 722.
Pulp thickener, Slime. C. Allen. No. 1,350,204; Aug. 17; v. 277; p. 529.
Pulp thickener, Slime-. C. Allen. No. 1,360,703; Nov. 30; v. 280; p. 904.
Pulsator. W. M. Mehring. No. 1,355,839; Oct. 19; v. 279; p. 366.
Pulverized. J. T. Fowler. No. 1,339,950; May 11; v. 274; p. 319.
Pulverizer. D. S. Carter. No. 1,333,159; Mar. 9; v. 272; p. 238.
Pulverizer. F. B. Franks. No. 1,363,106; Dec. 21; v. 281; p. 518.
Pulverizer. W. Hasendahl. No. 1,355,335; Oct. 12; v. 279; p. 228.
Pulverizer. J. F. Remy. No. 1,331,722; Feb. 24; v. 271; p. 565.
Pulverizer. C. J. Tomlinson. No. 1,331,968; Feb. 24; v. 271; p. 612.
Pulverizer and fine pulverizing. F. Seymour. No. 1,363,361; Dec. 28; v. 281; p. 608.
Pulverizer, Farm and sod. J. Seaman. No. 1,332,921; Mar. 9; v. 272; p. 194.
Pulverizer-mill. J. W. Fuller. No. 1,345,082; June 29; v. 275; p. 925.
Pulverizer, Rotary. E. Cortese, M. Crespi, and A. Squassi. No. 1,339,499; May 11; v. 274; p. 234.
Pulverizer, Rotary impact-. C. J. Tomlinson. No. 1,331,969; Feb. 24; v. 271; p. 612.
Pulverizer, Soil-. F. Kalteis. No. 1,333,492; Mar. 9; v. 272; p. 301.
Pulverizers, Hammer-mounting for. H. J. Shelton. No. 1,347,717; July 27; v. 276; p. 649.
Pulverizing apparatus. R. H. Challacombe. No. 1,338,421; Apr. 27; v. 273; p. 718.
Pulverizing apparatus. J. E. Kennedy. No. 1,356,292; Oct. 19; v. 279; p. 456.
Pulverizing-machine. C. E. Brainard. No. 1,360,364; Nov. 30; v. 280; p. 837.
Pulverizing-mill. J. W. Fuller. No. 1,358,837; Nov. 16; v. 280; p. 426.

Digitized by Google

Pulverizing-mill. G. F. Hurt. No. 1,334,701; Mar. 23: v. 272; p. 634.
Pulverulent materials, Packaging. J. Wander. No. 1,344,664; June 29; v. 275; p. 846.
Pump. B. S. Aikman. No. 1,357,671; Nov. 2; v. 280; p. 89.
Pump. B. S. Aikman. No. 1,359,945; Nov. 23; v. 280; p. 688.
Pump. J. Astrom. No. 1,328,474; Jan. 20; v. 270; p. 397.
Pump. G. M. Baker. No. 1,356,589; Oct. 26; v. 279; p. 560.
Pump. A. P. Beijer. No. 1,358,504; Nov. 9; v. 280; p. 315.
Pump. H. A. Bloedorn. No. 1,329,950; Feb. 3; v. 271; p. 113.
Pump. A. Boulade. No. 1,340,596; May 18; v. 274; p. 499.
Pump. A. Boulade. No. 1,340,597; May 18; v. 274; p. 499.
Pump. C. D. Brandt. No. 1,356,255; Oct. 19; v. 279; p. 449.
Pump. J. C. Briggs. No. 1,338,118; Apr. 27; v. 273; p. 662.
Pump. A. G. Browning. No 1,342,087; June 1; v 275; p. 93.
Pump. T. Burdick. No. 1,332,540; Mar. 2; v. 272; p. 70.
Pump. D. A. Carden. No. 1,337,180; Apr. 13; v. 273; p. 340.
Pump. I. R. Cockroft. No. 1,351,505; Aug. 31; v. 277; p. 891.
Pump. W. C. Cornelius. No. 1,330,621; Feb. 10; v. 271; p. 269.
Pump. C. A. Criqui and E. T. Larkin. No. 1,339,500; May 11; v. 274; p. 234.
Pump. E. M. Culp. No. 1,357,544; Nov. 2; v. 280; p. 64.
Pump. A. Dryen. No. 1,327,423; Jan. 6; v. 270; p. 101.
Pump. C. R. Edwards No. 1,337,057; Apr. 13; v. 273; p. 317.
Pump. W. H. Elzerman. No. 1,332,547; Mar. 2; v. 272; p. 72.
Pump. W. H. Elzerman. No. 1,333,656; Mar. 16; v 272; p. 393.
Pump. D. Farrand. No. 1,342,798; June 8; v. 275; p. 286.
Pump. H. C. Frahm. No. 1,331,846; Feb. 24; v. 271; p. 589.
Pump. V. H. Francis. No. 1,337,834; Apr. 20; v. 273; p. 538.
Pump. J. A. Gogolinski. No. 1,349,667; Aug. 17; v. 277; p. 425.
Pump. H. M. Hall. No. 1,353,391; Sept. 21; v. 278; p. 422.
Pump. H. A. Herpst. No. 1,327,868; Jan. 13; v. 270; p. 246.
Pump. W. B. Hewitt. No. 1,331,504; Feb. 24; v. 271; p. 524.
Pump. C. J. Hinshaw and H. B. Castor. No. 1,346,652; July 13; v. 276; p. 323.
Pump. J. Holst. No. 1,334,935; Mar. 23; v. 272; p. 681.
Pump. M. B. Holstein. No. 1,330,266; Feb. 10; v. 271; p. 208.
Pump. G. A. Humason. No. 1,345,491; July 6; v. 276; p. 32.
Pump. H. Jackson. No. 1,339,347; May 4; v. 274; p. 128.
Pump. L. H. Jensen. No. 1,362,004; Dec. 14; v. 281; p. 252.
Pump. F. Joerns. No. 1,358,213; Nov. 9; v. 280; p. 256.
Pump. G. P. Johnson. No. 1,339,563; May 11; v. 274; p. 246.
Pump. J. L. Johnson. No. 1,340,545; May 18; v. 274; p. 489.
Pump. H. M. Keith. No. 1,334,906; Mar. 23; v. 272; p. 675.
Pump. G. W. Kellogg. No. 1,356,630; Oct. 26; v. 279; p. 568.
Pump. G. W. Kellogg. No. 1,357,402; Nov. 2; v. 280; p. 38.
Pump. L. R. Kiehl. No. 1,328,165; Jan. 13; v. 270; p. 302.
Pump. E. T. Kien. No 1,355,231; Oct. 12; v. 279; p. 208.
Pump. J. B. Kirby. No. 1,347,512; July 27; v. 276; p. 608.
Pump. J. Loftus. No 1,342,176; June 1; v. 275; p. 111.
Pump. C. S. McIntyre. No. 1,335,251; Mar. 30; v. 272; p. 799.
Pump. J. C. Moon. No. 1,349,218; Aug. 10; v. 277; p. 263.
Pump. S. Nelson. No. 1,328,010; Jan. 13; v. 270; p. 272.
Pump. T. Peters. No. 1,353,492; Sept. 21; v. 278; p. 442.
Pump. A. Petrov. No. 1,341,194; May 25; v. 274; p. 684.
Pump. E. F. Porter. No. 1,341,669; June 1; v. 275; p. 11.
Pump. J. K. Putnam. No. 1,343,157; June 8; v. 275; p. 356.
Pump. F. Stoklosa. No. 1,346,989; July 20; v. 276; p. 449.
Pump. S. A. Strickland. No. 1,334,567; Mar. 23; v. 272; p. 610.
Pump. E. N. Trump and F. Friedrichs. No. 1,349,394; Aug. 10; v. 277; p. 299.
Pump. E. N. Trump and F. Friedrichs. No. 1,349,395; Aug. 10; v. 277; p. 299.
Pump. W. R. Twiford. No. 1,351,813; Sept. 7; v. 278; p. 19.
Pump. W. I. Twombly. No. 1,362,374; Dec. 14; v. 281; p. 324.
Pump. W. B. Wigle. No. 1,362,456; Dec. 14; v. 281; p. 340.
Pump. R. T. Windle. No. 1,340,130; May 11; v. 274; p. 354.
Pump-actuating mechanism. F. J. Evans. No. 1,347,739; July 27; v. 276; p. 654.
Pump, Air-. S. S. Avery. No. 1,347,434; July 20; v. 276; p. 536.
Pump, Air-. S. H. Bossart. No. 1,352,348; Sept. 7; v. 278; p. 122.
Pump, Air-. W. E. Ellis. No. 1,356,857; Oct. 26; v. 279; p. 613.
Pump, Air-. H. L. Frost. No. 1,362,485; Dec. 14; v. 281; p. 345.
Pump, Air-. J. G. Gerhart. No. 1,351,847; Sept. 7; v. 278; p. 27.
Pump, Air-. C. B. Goodstein. No. 1,335,051; Mar. 30; v. 272; p. 762.
Pump, Air-. E. Griesbaum. No. 1,341,460; May 25; v. 274; p. 736.
Pump, Air-. C. C. Hanger. No. 1,332,293; Mar. 2; v. 272; p. 23.
Pump, Air-. J. F. Henry. No. 1,332,041; Feb. 24; v. 271; p. 626.
Pump, Air-. J. Kean. No. 1,328,332; Jan. 13; v. 270; p. 315.
Pump, Air-. J. Lafrance. No. 1,327,833; Jan. 13; v. 270; p. 289.
Pump, Air-. I. Lawley. No. 1,356,160; Oct. 19; v. 279; p. 430.
Pump, Air-. C. G. Lillos. No. 1,328,529; Jan. 20; v. 270; p. 408.
Pump, Air-. C. G. Lillos. No. 1,351,176; Aug. 31; v. 277; p. 825.
Pump, Air-. C. Nolda. No. 1,332,995; Mar. 9; v. 272; p. 208.
Pump, Air-. S. G. Skinner. No. 1,327,783; Jan. 13; v. 270; p. 230.
Pump, Air-. A. Swensen. No. 1,336,396; Apr. 6; v. 273; p. 131.
Pump, Air-compressor. G. and C. Burd. No. 1,346,699; July 13; v. 276; p. 333.
Pump, Air force-. J. M. Missouri. No. 1,351,897; Aug. 31; v. 277; p. 871.
Pump, Air-lift. J. Oliphant. No. 1,363,198; Dec. 21; v. 281; p. 536.
Pump, Air-lift. R. Stirling. No. 1,361,196; Dec. 7; v. 281; p. 43.
Pump, Air-lift. R. H. Tucker. No. 1,334,638; Mar. 23; v. 272; p. 623.
Pump, Air-lift-separator. O. M. Pruitt. (Reissue.) No. 14,937; Aug. 24; v. 277; p. 732.
Pump and blower exhaust to locomotive-smokestacks, Means for delivering air-. A. N. Lucas. No. 1,329,618; Feb. 3; v. 271; p. 51.
Pump and circuit therefor, Electromagnetic fuel-. C. C. Bradbury. No. 1,337,388; Apr. 20; v. 273; p. 454.
Pump and compressor. J. Zwicky. No. 1,339,311; May 4; v. 274; p. 121.
Pump and compressor, Internal-combustion. W. F. Vernon. No. 1,350,125; Aug. 17; v. 277; p. 513.
Pump and mixer, Dispensing-. E. M. Adams. No. 1,349,543; Aug. 10; v. 277; p. 328.
Pump and motor, Combined centrifugal. H. A. Prindle. No. 1,354,129; Sept. 28; v. 278; p. 615.
Pump and motor, Combined rotary. C. Townsend. No. 1,338,265; Apr. 27; v. 273; p. 689.
Pump and motor, Rotary. H. H. MacTaggart and R. G. Scott. No. 1,360,128; Nov. 23; v. 280; p. 724.
Pump and pumping system. B. S. Aikman. (Reissue.) No. 14,935; Aug. 24; v. 277; p. 731.
Pump and pumping system. B. S. Aikman. (Reissue.) No. 14,946; Sept. 7; v. 278; p. 135.
Pump and pumping system. B. S. Aikman. No. 1,356,684; Oct. 26; v. 279; p. 579.
Pump attachment. E. P. O. Trudel and A. Ziani. No. 1,334,330; Mar. 23; v. 272; p. 566.
Pump attachment, Automobile-. W. T. Stratton. No. 1,350,122; Aug. 17; v. 277; p. 512.
Pump attachment, Automobile. W. D. Vogts. No. 1,327,793; Jan. 13; v. 270; p. 232.
Pump attachment for automobiles. R. A. Peatman. No. 1,336,920; Apr. 13; v. 273; p. 291.
Pump attachment, Motor-. B. D. Gilson. No. 1,340,389; May 18; v. 274; p. 459.
Pump attachment, Multiple-cylinder-. M. Sullivan. No. 1,327,449; Jan. 6; v. 270; p. 105.
Pump, Auto-tire. E. B. Barnhill and J. Stone. No. 1,351,503; Aug. 31; v. 277; p. 891.
Pump, Automatic. O. Berry. No. 1,327,371; Jan. 6; v. 270; p. 91.
Pump, Automatic. W. L. Geddes. No. 1,330,072; Feb. 10; v. 271; p. 167.

Digitized by Google

Pump, Automatic air-. R. Gregory. No. 1,332,334; Mar. 2; v. 272; p. 30.
Pump, Automatic tire-. H. J. Appleton. No. 1,329,876; Feb. 3; v. 271; p. 100.
Pump, Automatic tire-. B. Doehrer. No. 1,335,562; Mar. 30; v. 272; p. 857.
Pump, Automatic tire-. H. A. Wilkinson. No. 1,359,214; Nov. 16; v. 280; p. 497.
Pump, Automobile-. W. F. Warren. No. 1,346,866; July 20; v. 276; p. 424.
Pump, Automobile-driven tire-. G. E. Hazard. No. 1,334,858; Mar. 23; v. 272; p. 666.
Pump balancing means, Centrifugal-. R. A. Pitman. No. 1,360,576; Nov. 30; v. 280; p. 880.
Pump-base. F. W. Zingsheim. No. 1,329,281; Jan. 27; v. 270; p. 578.
Pump casing, Reinforced-. R. H. Aldrich. No. 1,327,512; Jan. 6; v. 270; p. 118.
Pump, Centrifugal. W. C. Dowd. No. 1,348,633; Aug. 3; v. 277; p. 98.
Pump, Centrifugal. G. H. Elmore. No. 1,357,628; Nov. 2; v. 280; p. 81.
Pump, Centrifugal. H. Julinsen. No. 1,337,916; Apr. 20; v. 273; p. 554.
Pump, Centrifugal. C. V. Kerr. No. 1,334,461; Mar. 23; v. 272; p. 590.
Pump, Centrifugal. C. V. Kerr. No. 1,337,659; Apr. 20; v. 273; p. 505.
Pump, Centrifugal. B. J. Kime. No. 1,353,915; Sept. 28; v. 278; p. 570.
Pump, Centrifugal. F. W. Krogh. No. 1,342,552; June 8; v. 275; p. 237.
Pump, Centrifugal. H. E. La Bour. No. 1,355,982; Oct. 19; v. 279; p. 394.
Pump, Centrifugal. L. Seguin. No. 1,345,895; July 6; v. 276; p. 112.
Pump, Centrifugal. R. N. Trane. No. 1,340,091; May 11; v. 274; p. 345.
Pump, Centrifugal. N. B. Waldron. No. 1,361,938; Dec. 14; v. 281; p. 238.
Pump, Centrifugal. A. R. Wilfley. No. 1,330,416; Feb. 10; v. 271; p. 232.
Pump, Centrifugal. A. R. Wilfley. No. 1,346,924; July 20; v. 276; p. 436.
Pump, Centrifugal. A. R. Wilfley. No. 1,346,926; July 20; v. 276; p. 436.
Pump, Centrifugal vacuum-. V. Rosenhagen. No. 1,354,340; Sept. 28; v. 278; p. 657.
Pump, Combined motor-. T. L. R. Cooper. No. 1,347,732; July 27; v. 276; p. 653.
Pump, Compound rotary motor-. M. V. Andrews and S. W. Holman. No. 1,332,158; Feb. 24; v. 271; p. 646.
Pump, Compressed-air. H. Mandelbaum. No. 1,352,013; Sept. 7; v. 278; p. 59.
Pump, Compressed-air automatic oil and water. A. and W. Otto. No. 1,358,238; Nov. 9; v. 280; p. 260.
Pump, compressor, or motor, Machine applicable as. S. Larsson. No. 1,348,814; Aug. 3; v. 277; p. 181.
Pump, Condenser system and vacuum-. J. F. Grace. No. 1,340,165; May 18; v. 274; p. 418.
Pump, Condensing and vacuum. S. Lippert. No. 1,339,402; May 11; v. 274; p. 215.
Pump connection, Tire-. J. B. McMullin. No. 1,340,785; May 18; v. 274; p. 534.
Pump-controlling device, Water-. J. Rossini. No. 1,347,408; July 20; v. 276; p. 531.
Pump, Counterbalanced. C. E. Anderson. No. 1,343,427; June 15; v. 275; p. 472.
Pump-coupling. F. A. Lane. No. 1,338,739; May 4; v. 274; p. 17.
Pump, Curb-. S. Hinds. No. 1,345,774; July 6; v. 276; p. 88.
Pump-cylinders, Device for recovering. H. Nelson. No. 1,353,177; Sept. 21; v. 278; p. 381.
Pump, Deep-well. M. T. and M. C. Chapman. No. 1,348,980; Aug. 10; v. 277; p. 216.
Pump, Deep-well. A. L. Ligon. No. 1,332,672; Mar. 2; v. 272; p. 95.
Pump, Deep-well. F. H. Sibley and H. M. Lasher. No. 1,330,352; Feb. 10; v. 271; p. 220.
Pump, Deep-well. H. J. and W. R. Woock. No. 1,340,472; May 18; v. 274; p. 475.
Pump, Deep-well propeller-screw. F. W. Krogh. No. 1,342,551; June 8; v. 275; p. 236.
Pump, Diffusion-. J. E. Shrader. No. 1,330,556; Feb. 10; v. 271; p. 258.
Pump, Dispensing-. W. G. Burns. No. 1,344,985; June 29; v. 275; p. 906.
Pump, Dispensing-. C. Hughel. No. 1,339,626; May 11; v. 274; p. 258.
Pump, Double-acting high-pressure. E. Rodrigues. No. 1,342,719; June 8; v. 275; p. 269.
Pump, Double-action. V. L. Formway and S. S. Sloneker. No. 1,348,353; Aug. 3; v. 277; p. 44.
Pump, Double-suction centrifugal. J. W. Pinkerton and E. Tomlinson. No. 1,352,831; Sept. 14; v. 278; p. 253.
Pump-drain. A. G. Shauger. No. 1,334,408; Mar. 23; v. 272; p. 580.
Pump-drive for marine motors. F. Tessner. No. 1,363,289; Dec. 28; v. 281; p. 596.
Pump-driving mechanism, Tire-. H. Jennings. No. 1,356,451; Oct. 19; v. 279; p. 486.

Pump, Electrically-actuated. D. H. Reeves. No. 1,346,555; July 13; v. 276; p. 304.
Pump, Electrically-driven rotary. J. W. W. Drysdale, Jr. and J. Young. No. 1,355,755; Oct. 12; v. 279; p. 309.
Pump, Engine fuel-. A. S. Hawks. No 1,341,640; June 1; v. 275; p. 5.
Pump, Fluid-. C. A. Anderson. (Reissue.) No. 14,789; Jan. 13; v. 270; p. 319.
Pump, Fluid-. G. Olson. No. 1,338,839; May 4; v. 274; p. 35.
Pump, Foot-. W. F. Service. No. 1,348,058; July 27; v. 276; p. 718.
Pump for beverage-dispensing machines or fountains. F. C. Westfall. No. 1,361,943; Dec. 14; v. 281; p. 239.
Pump for excavating air from condensers, refrigerating plants, and the like, Air-. B. and F. Ljungström. No. 1,343,922; June 22; v. 275; p. 635.
Pump for internal-combustion engines, Water-cooling. F. F. Krause. No. 1,359,389; Nov. 16; v. 280; p. 532.
Pump for liquids, Force-. W. Hunter. No. 1,362,315; Dec. 14; v. 281; p. 313.
Pump for pumping liquids, Rotary. G. Handley. No. 1,353,745; Sept. 21; v. 278; p. 494.
Pump, Force-. A. T. Brown. No. 1,359,472; Nov. 16; v. 280; p. 549.
Pump, Fuel-. O. W. Pfeffer. No. 1,349,005; Aug. 10; v. 277; p. 221.
Pump, Fuel-. W. H. Rost. No. 1,362,742; Dec. 21; v. 281; p. 448.
Pump, Gear-. W. A. Doble. No. 1,359,235; Nov. 16; v. 280; p. 501.
Pump, Gear-. B. W. Hurd. No. 1,346,960; July 20; v. 276; p. 443.
Pump, Governing fuel-. A. F. Christmas. No. 1,352,050; Sept. 7; v. 278; p. 65.
Pump-head. S. M. Fulton. No. 1,357,394; Nov. 2; v. 280; p. 37.
Pump, High-pressure fluid-. H. G. Gosselin and W. B. Mahern. No. 1,356,063; Oct. 19; v. 279; p. 410.
Pump, Hydraulic. E. P. Carlson. No. 1,353,216; Sept. 21; v. 278; p. 388.
Pump, Hydraulic. F. Lamplough. No. 1,346,548; July 13; v. 276; p. 303.
Pump, Hydroturbine vacuum-. B. Skidmore, Jr. No. 1,361,189; Dec. 7; v. 281; p. 41.
Pump, Internal-combustion engine. C. C. Thomas. No. 1,343,693; June 15; v. 275; p. 525.
Pump, Internal-combustion hydraulic. G. Griffith. No. 1,327,036; Jan. 6; v. 270; p. 30.
Pump, Internal-combustion pressure-. J. A. McIntyre. No. 1,333,265; Mar. 9; v. 272; p. 258.
Pump-jack. H. F. Alexis and M. Olson. No. 1,345,980; July 6; v. 276; p. 129.
Pump-jack. G. W. Boyd. No. 1,354,237; Sept. 28; v. 278; p. 636.
Pump-jack. A. S. D. French. No. 1,335,960; Apr. 6; v. 273; p. 49.
Pump-jack. A. E. Owen. No. 1,349,094; Aug. 10; v. 277; p. 238.
Pump, Liquid-. K. Dellgren. No. 1,327,272; Jan. 6; v. 270; p. 78.
Pump, Liquid-dispensing. W. T. Hatmaker. No. 1,352,664; Sept. 14; v. 278; p. 220.
Pump, Liquid-measuring. C. F. Pressler. No. 1,328,101; Jan. 13; v. 270; p. 290.
Pump lubricator, Air-brake-. E. McCoy. No. 1,338,385; Apr. 27; v. 273; p. 712.
Pump mechanism. J. W. Van Meter. No. 1,358,800; Nov. 16; v. 280; p. 419.
Pump, Oil-. S. C. Barnes. No. 1,337,581; Apr. 20; v. 273; p. 490.
Pump, Oil-. J. Pettit. No. 1,350,939; Aug. 24; v. 277; p. 717.
Pump, Oil-well. R. Gregory. No. 1,332,333. Mar. 2; v. 272; p. 30.
Pump-operating apparatus. W. Thomas. No. 1,329,560; Feb. 3; v. 271; p. 41.
Pump-operating mechanism. L. Brennan. No. 1,345,909; July 6; v. 276; p. 115.
Pump-operating mechanism. O. L. Huffman. No. 1,354,557; Oct. 5; v. 279; p. 22.
Pump-operating mechanism. T. R. Minert. No. 1,344,056; June 22; v. 275; p. 661.
Pump-operating mechanism, Air-cushion for. B. Brynteson. No. 1,327,940; Jan. 13; v. 270; p. 259.
Pump-operating mechanism, Double-acting-. P. J. Wilson. No. 1,328,218; Jan. 13; v. 270; p. 312.
Pump-operating mechanism, Oil-. D. R. Brown. No. 1,339,097; May 4; v. 274; p. 84.
Pump or compressor. A. E. L. Scanes. No. 1,327,294; Jan. 6; v. 270; p. 77.
Pump or compressor. J. H. Wagenhorst. No. 1,352,107; Sept. 7; v. 278; p. 76.
Pump or compressor, Rotary. R. H. Cracknell. No. 1,359,792; Nov. 23; v. 280; p. 657.
Pump or motor, Fluid-power-transmission. C. R. Pratt. No. 1,362,040; Dec. 14; v. 281; p. 259.
Pump overflow-pan. K. J. W. Freitag and H. D. Ainsworth. No. 1,340,534; May 18; v. 274; p. 487.
Pump-packing. J. W. Drew. No. 1,329,165; Jan. 27; v. 270; p. 556.

Digitized by Google

Pump-pipe lifter. G. P. Davis. No. 1,328,648; Jan. 20; v. 270; p. 430.
Pump-piston. C. D. Brandt. No. 1,338,765; May 4; v. 274; p. 22.
Pump-piston. W. F. Brandt. No. 1,362,838; Dec. 21; v. 281; p. 467.
Pump-piston. W. J. Coulson. No. 1,338,906; May 4; v. 274; p. 47.
Pump-piston. J. W. Drew. No. 1,357,624; Nov. 2; v. 280; p. 80.
Pump-piston. B. F. Moss. No. 1,333,211; Mar. 9; v. 272; p. 248.
Pump-piston. C. P. Williams. No. 1,355,802; Oct. 12; v. 279; p. 318.
Pump-plunger. H. M. Boe. No. 1,351,228; Aug. 31; v. 277; p. 836.
Pump-plunger. A. S. Mackenzie. No. 1,338,943; May 4; v. 274; p. 54.
Pump, Pneumatic. G. W. Goss. No. 1,344,883; June 29; v. 275; p. 887.
Pump, Pneumatic. H. J. Hawvichorst. No. 1,347,033; July 20; v. 276; p. 457.
Pump, Pneumatic. H. S. Rogers. No. 1,339,224; May 4; v. 274; p. 106.
Pump, Pneumatic. G. M. Russell. No. 1,343,004; June 8; v. 275; p. 326.
Pump, Pneumatic ejector-. B. P. Hopkins. No. 1,333,713; Mar. 16; v. 272; p. 404
Pump, Pneumatic liquid-. A. F. Engles and C. J. Rapp. No. 1,362,858; Dec. 21; v. 281; p. 470.
Pump-priming device, Automatic. R. Miller. No. 1,343,574; June 15; v. 275; p. 501.
Pump, Reversible-flow. R. Maw. No. 1,330,889; Feb. 17; v. 271; p. 389.
Pump, Rotary. J. T. Auger. No. 1,348,771; Aug. 3; v. 277; p. 123.
Pump, Rotary. J. T. Auger. No. 1,348,772; Aug. 3; v. 277; p. 124.
Pump, Rotary. J. T. Auger. No. 1,348,773; Aug. 3; v. 277; p. 124
Pump, Rotary. W. W. Blackman. No. 1,363,451; Dec. 28; v. 281; p. 625.
Pump, Rotary. A. Brauer. No. 1,350,775; Aug. 24; v. 277; p. 687.
Pump, Rotary. A. P. Dron. No. 1,363,315; Dec. 28; v. 281; p. 600.
Pump, Rotary. J. Frodsham. No. 1,329,895; Feb. 3; v. 271; p. 103.
Pump, Rotary. G. Handley. No. 1,335,577; Mar. 30; v. 272; p. 860.
Pump, Rotary. W. G. Hawley. No. 1,362,621; Dec. 21; v. 281; p. 424.
Pump, Rotary. F. Marion. No. 1,361,343; Dec. 7; v. 281; p. 73.
Pump, Rotary. F. J. O'Donnell. No. 1,332,516; Mar. 2; v. 272; p. 66.
Pump, Rotary. A. E. Shiner. No. 1,340,632; May 18; v. 274; p. 506.
Pump, Rotary. J. H. Smith. No. 1,339,723; May 11; v. 274; p. 277.
Pump, Rotary. K. D. Smith and B. Samelson. No. 1,328,061; Jan. 13; v. 270; p. 282.
Pump, Rotary. C. P. Waterous. No. 1,361,423; Dec. 7; v. 281; p. 89.
Pump, Rotary air-. I. H. Spencer. No. 1,350,745; Aug. 24; v. 277; p. 681.
Pump, Rotary reciprocating double-acting. P. J. Rooney. No. 1,362,144; Dec. 14; v. 281; p. 280.
Pump, Rotary water-. M. V. Andrews and S. W. Holman. No. 1,327,517; Jan. 6; v. 270; p. 119.
Pump, Screw-. A. B. Wood. No. 1,345,655; July 6; v. 276; p. 63.
Pump, Speedometer-. T. C. Prouty. (Reissue.) No. 14,922; July 20; v. 276; p. 547.
Pump, Steam-. G. H. C. van Keulen. No. 1,356,241; Oct. 19; v. 279; p. 446.
Pump-strainer. R. S. and J. G. Garry. No. 1,329,171; Jan. 27; v. 270; p. 557.
Pump-support. A. G. Girard. No. 1,338,621; Apr. 27; v. 273; p. 755.
Pump-thawing means. F. C. Brokish. No. 1,327,803; Jan. 13; v. 270; p. 234.
Pump, Tire-. W. J. Ashley. No. 1,333,955; Mar. 16; v. 272; p. 449.
Pump, Tire-. C. M. Starr. No. 1,346,919; July 20; v. 276; p. 435.
Pump, Tire-. H. Taylor. No. 1,338,711; May 4; v. 274; p. 12.
Pump, Tire-. P. Wajdic. No. 1,346,284; July 13; v. 276; p. 251.
Pump, Tire-inflating. H. K. Austin. No. 1,335,718; Apr. 6; v. 273; p. 3.
Pump trunk, Oil-. G. R. McDonald. No. 1,348,504; Aug. 3; v. 277; p. 72.
Pump, turbine, and the like, Fluid. R. C. Parsons. (Reissue.) No. 14,988; Nov. 16; v. 280; p. 552.
Pump, Two-stage air-lift. J. Rigling. No. 1,333,279; Mar. 9; v. 272; p. 261.
Pump, Vacuum-. B. R. Van Valkenburg. No. 1,350,396; Aug. 24; v. 277; p. 612.
Pump, Vacuum gasolene-. G. E. Friesen. No. 1,351,510; Aug. 31; v. 277; p. 893.
Pump-valve. L. D. Crapps. No. 1,363,761; Dec. 28; v. 281; p. 685.
Pump-valve. J. B. Stanton. No. 1,355,285; Oct. 12; v. 279; p. 219.
Pump, Water-. E. C. Newcomb. No. 1,336,258; Apr. 6; v. 273; p. 105.
Pump, Water-motor. M. V. Andrews and S. W. Holman. No. 1,352,237; Sept. 7; v. 278; p. 101.
Pump, Well cable-. J. N. Fender. No. 1,347,806; July 27; v. 276; p. 667.
Pump with sight-feed, Automatic oil-. J. J. Langmack. No. 1,343,677; June 15; v. 275; p. 521.
Pumps, Attachment for automobile-driven tire-. G. E. Hazard. No. 1,334,857; Mar. 23; v. 272; p. 665.
Pumps, Attachment for tire-. C. W. Norman. No. 1,332,565; Mar. 2; v. 272; p. 75.
Pumps, Automatic valve for air-lift. H. T. Abrams. No. 1,343,190; June 15; v. 275; p. 427.
Pumps, Bearing-protector for deep-well. R. Schorr. No. 1,336,540; Apr. 13; v. 273; p. 218.
Pumps, Clamp for plumbers' force-. A. H. Lowe. No. 1,327,768; Jan. 13; v. 270; p. 227.
Pumps, Constructing air-. A. M. Sonnichsen. No. 1,340,844; May 18; v. 274; p. 545.
Pumps, Construction of force or lift. D. B. Hutton. No. 1,341,906; June 1; v. 275; p. 57.
Pumps, Fishing-tool for. R. W. Hoover. No. 1,347,041; July 20; v. 276; p. 459.
Pumps, Gland and packing of centrifugal sand-. G. Lumley. No. 1,336,308; Apr. 6; v. 273; p. 114.
Pumps, Hand-operating attachment for. J. H. Oldham. No. 1,329,137; Jan. 27; v. 270; p. 551.
Pumps, Measuring and indicating attachment for gasolene-dispensing. W. E. Thoroman. No. 1,330,100; Feb. 10; v. 271; p. 173.
Pumps, Motor-mounting for bellows-. L. B. Doman. No. 1,337,645; Apr. 20; v. 273; p. 502.
Pumps, Mounting for oil-. F. Conrad. No. 1,344,756; June 29; v. 275; p. 863.
Pumps, Meter for continuous. R. E. Bechtold. No. 1,349,256; Aug. 10; v. 277; p. 272.
Pumps, Method and apparatus for unloading. W. B. Eddison. No. 1,350,095; Aug. 17; v. 275; p. 507.
Pumps, Non-leaking bearing for impeller-shafts of centrifugal. J. Porteous. No. 1,362,039; Dec. 14; v. 281; p. 259.
Pumps, Plunger for deep-well. W. J. Coulson. No. 1,337,593; Apr. 20; v. 273; p. 492.
Pumps, Relief-valve for. B. E. Cannon. No. 1,361,825; Dec. 14; v. 281; p. 216.
Pumps, Sand-protecting device for turbine-. F. W. Krogh. No. 1,328,284; Jan. 13; v. 270; p. 315.
Pumps, Sand-screen for. H. M. Green. No. 1,338,829; May 4; v. 274; p. 33.
Pumps, Sectional shoes for the runner-vanes of centrifugal. A. H. Exton. No. 1,327,812; Jan. 13; v. 270; p. 236.
Pumps, Sight-indicator for dispensing-. C. S. Ayres. No. 1,345,733; July 6; v. 276; p. 79.
Pumps, Spring-tension for power or hand. C. F. Brandenberger. No. 1,348,203; Aug. 3; v. 277; p. 14.
Pumps, Standpipe connection for centrifugal. A. R. Wilfley. No. 1,346,925; July 20; v. 276; p. 436.
Pumps, Steam-jacket for oil-. L. C. Stefferud. No. 1,328,906; Jan. 27; v. 270; p. 508.
Pumps, Sucker-rod attachment to prevent sanding up of well-. R. L. Burns and F. F. Winger. No. 1,327,611; Jan. 13; v. 270; p. 198.
Pumps, Valve construction for. H. L. Shartle. No. 1,334,507; Mar. 23; v. 272; p. 599.
Pumps, Water-valve gear for. R. C. Hawkins. No. 1,338,443; Apr. 27; v. 273; p. 722.
Pumping apparatus. C. W. Black. No. 1,361,958; Dec. 14; v. 281; p. 243.
Pumping apparatus. T. C. O'Meara. No. 1,353,845; Sept. 28; v. 278; p. 556.
Pumping apparatus. J. P. Ratigan. No. 1,352,627; Sept. 14; v. 278; p. 212.
Pumping apparatus, Portable. E. O. Cartwright. No. 1,331,239; Feb. 17; v. 271; p. 454.
Pumping apparatus, Portable. E. O. Cartwright. No. 1,331,900; Feb. 24; v. 271; p. 60.
Pumping apparatus, Portable. E. O. Cartwright. No. 1,345,531; July 6; v. 276; p. 40.
Pumping apparatus, Tank for portable. E. O. Cartwright. No. 1,332,244; Mar. 2; v. 272; p. 13.
Pumping device. J. C. Howard. No. 1,358,153; Nov. 9; v. 280; p. 244.
Pumping device. N. Wener. No. 1,352,856; Sept. 14; v. 278; p. 258.
Pumping-jack. L. H. Taffee. No. 1,334,328; Mar. 23; v. 272; p. 565.
Pumping power. W. H. Teel. No. 1,351,267; Aug. 31; v. 277; p. 844.
Pumping system. C. R. Olberg. No. 1,356,554; Oct. 26; v. 279; p. 553.
Pumping system, Fuel-. H. O. Baker. No. 1,336,717; Apr. 13; v. 273; p. 252.
Pumping system, High-vacuum. W. V. Lovell. No. 1,346,408; July 13; v. 276; p. 274.
Pumping system, Water-. C. P. Eisenhauer. No. 1,328,989; Jan. 27; v. 270; p. 528.

Digitized by Google

Alphabetical list of inventions—Continued.

Punch. P. W. and B. B. Britts. No. 1,338,969; May 4; v. 274; p. 58.
Punch. L. A. Lundmark. No. 1,336,529; Apr. 13; v. 273; p. 215.
Punch and countersinking-machine, Combined. W. R. Ormes. No. 1,342,865; June 8; v. 275; p. 299.
Punch and die, Piercing-. E. Ibach. No. 1,338,082; Apr. 27; v. 273; p. 655.
Punch, Backing-out. E. S. Astin. No. 1,362,911; Dec. 21; v. 281; p. 480.
Punch, Can-. J. Postma. No. 1,352,378; Sept. 7; v. 278; p. 127.
Punch, Center-. F. F. Komatar. No. 1,341,373; May 25; v. 274; p. 719.
Punch, Centering-. O. Hladilek. No. 1,360,296; Nov. 30; v. 280; p. 825.
Punch, Centering-. H. M. Walker. No. 1,351,592; Aug. 31; v. 277; p. 909.
Punch, Jeweler's. B. W. Boettigheimer. No. 1,358,510; Nov. 9; v. 280; p. 316.
Punch, Pattern-. W. Zimmer. No. 1,335,632; Mar. 30; v. 272; p. 870.
Punch-press, Rotary. A. C. V. Malm. No. 1,347,644; July 27; v. 276; p. 634.
Punch-presses, Feeding device for. I. S. Hasselstrom. No. 1,346,089; July 6; v. 276; p. 151.
Punch-presses, Safety-guard for. A. Koetting. No. 1,346,713; July 13; v. 276; p. 335.
Punch, Rail-bond. W. C. Brenner. No. 1,343,901; June 22; v. 275; p. 630.
Punch, Rotary. C. R. Buschmeyer. No. 1,333,704; Mar. 16; v. 272; p. 402.
Punch, shear, and coping machine, Combination. W. R. Beatty. No. 1,333,201; Mar. 9; v. 272; p. 246.
Punching and shearing machine. J. M. Wilcox. No. 1,356,248; Oct. 19; v. 279; p. 447.
Punching apparatus, Strip-. B. M. Shanklin. No. 1,346,916; July 20; v. 276; p. 434.
Punching-machine. V. R. Bottone. No. 1,344,435; June 22; v. 275; p. 735.
Punching-machine. L. Dubois. No. 1,360,905; Nov. 30; v. 280; p. 944.
Punching-machine. O. V. Dutro and A. S. Burroughs. No. 1,348,788; Aug. 3; v. 277; p. 127.
Punching-machine. A. H. Fox. No. 1,334,364; Mar. 23; v. 272; p. 572.
Punching-machine. P. Masterson. No. 1,327,720; Jan. 13; v. 270; p. 218.
Punching-machine. G. F. Reznor. No. 1,358,328; Nov. 9; v. 280; p. 279.
Punching-machine. H. Swanson. No. 1,353,292; Sept. 21; v. 278; p. 403.
Punching machine, Metal-. J. D. Morgan. No. 1,349,975; Aug. 17; v. 277; p. 484.
Punching machinery. G. P. Thomas. No. 1,342,878; June 8; v. 275; p. 301.
Punching machinery. G. P. Thomas. No. 1,342,879; June 8; v. 275; p. 302.
Punchings, Producing. J. J. Frank. No. 1,334,149; Mar. 16; v. 272; p. 486.
Puncture-tester. F. Overmyer. No. 1,327,251; Jan. 6; v. 270; p. 70.
Purifier. J. W. Roche. No. 1,339,980; May 11; v. 274; p. 325.
Purifying and washing process-. S. E. Sheppard. No. 1,357,733; Nov. 2; v. 280; p. 101.
Purifying lubricating-oil. C. H. Hapgood. No. 1,363,784; Dec. 28; v. 281; p. 690.
Purifying materials, Manufacture of. C. Massatsch. No. 1,343,927; June 22; v. 275; p. 636.
Purse. W. Stone. No. 1,350,980; Aug. 24; v. 277; p. 725.
Purse, handbag, or the like. F. Nickel. No. 1,354,206; Sept. 28; v. 278; p. 630.
Purse-lock. W. M. Thompson. No. 1,363,291; Dec. 28; v. 281; p. 595.
Purse, Shoulder-. M. K. Gay. No. 1,361,761; Dec. 7; v. 281; p. 156.
Purses and pocket-books, Locking device for. C. Baia. No. 1,360,613; Nov. 30; v. 280; p. 887.
Push-button nxture, Electric. O. A. Pedersen. No. 1,341,668; June 1; v. 275; p. 11.
Push-button or push-button switch, Electric. L. H. Jones. No. 1,333,115; Mar. 9; v. 272; p. 230.
Push-rake. A. J. Gibbs. No. 1,350,218; Aug. 17; v. 277; p. 531.
Pusher-ram-changing station. W. L. Williams, Jr. No. 1,351,224; Aug. 31; v. 277; p. 835.
Pushing and pulling implement. O. E. Mousa. No. 1,337,719; Apr. 20; v. 273; p. 517.
Pushcart. P. Gadbois. No. 1,341,013; May 25; v. 274; p. 649.
Puttee. G. H. Shibley. No. 1,332,472; Mar. 2; v. 272; p. 57.
Puttees, Device for making. J. Fausse. No. 1,353,823; Sept. 28; v. 278; p. 552.
Puttees, Machine for and method of producing knitted. E. C. Schwab. No. 1,346,139; July 13; v. 276; p. 221.
Putting-green cup. G. M. Verity. No. 1,329,732; Feb. 3; v. 271; p. 72.
Puzzle. W. A. Bickings. No. 1,340,937; Aug. 17; v. 277; p. 476.
Puzzle. E. L. Bowman. No. 1,342,706; June 8; v. 275; p. 266.
Puzzle. J. Dudash. No. 1,356,610; Oct. 26; v. 279; p. 564.
Puzzle. C. S. Evans. No. 1,356,703; Oct. 26; v. 279; p. 582.
Puzzle. V. A. Hlasko. No. 1,349,456; Aug. 10; v. 277; p. 310.
Puzzle. I. L. Hoffer. No. 1,351,384; Aug. 31; v. 277; p. 868.
Puzzle. J. E. Hoy. No. 1,345,490; July 6; v. 276; p. 32.
Puzzle. F. L. Ince. No. 1,327,888; Jan. 6; v. 270; p. 95.
Puzzle. S. G. Penney. No. 1,358,780; Nov. 16; v. 280; p. 415.
Puzzle. O. J. Shepherd. No. 1,336,541; Apr. 13; v. 273; p. 218.
Puzzle. K. Yonemoto. No. 1,339,251; May 4; v. 274; p. 111.
Puzzle, Block. S. Senyk. No. 1,350,039; Aug. 17; v. 277; p. 496.
Puzzle-ring and bracelet, &c. R. Brown. No. 1,338,973; May 4; v. 274; p. 59.
Pyrites-furnace. E. C. Bracq. No. 1,335,271; Mar. 30; v. 272; p. 802.
Pyrometer. W. Glaeser. No. 1,339,952; May 11; v. 274; p. 320.
Pyrometer system and apparatus, Compensating-. H. E. Beighlee. No. 1,327,800; Jan. 13; v. 270; p. 233.
Pyrometry. H. F. Porter. No. 1,363,267; Dec. 28; v. 281; p. 590.
Pyrophosphates, Producing. H. A. Webster. No. 1,346,148; July 13; v. 273; p. 224.
Pyroxylin and compositions containing same, Solvent of. E. M. Flaherty. No. 1,356,440; Oct. 19; v. 279; p. 484.
Pyroxylin and compositions containing same, Solvent for use with. E. M. Flaherty. No. 1,341,710; June 1; v. 275; p. 19.
Pyroxylin products, Making. J. G. Jarvis. No. 1,351,652; Aug. 31; v. 277; p. 921.
Pyroxylin sheet of low inflammability. J. G. Jarvis. No. 1,349,156; Aug. 10; v. 277; p. 251.
Quack-grass digger. J. B. Miller. No. 1,334,255; Mar. 16; v. 272; p. 504.
Quenching apparatus. C. G. Olson. No. 1,327,443; Jan. 6; v. 270; p. 104.
Quick-acting clamp. G. C. Ireland. No. 1,331,505; Feb. 24; v. 271; p. 524.
Quick-action jack. A. W. Marr. No. 1,350,663; Aug. 24; v. 277; p. 665.
Quick-action switch. C. H. Bissell and F. C. Smith. No. 1,349,038; Aug. 10; v. 277; p. 228.
Quick-break switch. A. K. Sutherland. No. 1,341,622; May 25; v. 274; p. 766.
Quick-combustion engine, Compound. W. G. Germandt. No. 1,347,087; July 20; v. 276; p. 468.
Quick-fire gun with multiple barrels. J. Luciani. No. 1,363,608; Dec. 28; v. 281; p. 656.
Quick-opening separable fastener. G. Sundback. No. 1,340,187; May 18; v. 274; p. 422.
Quick-release device. T. Gregory. No. 1,360,521; Nov. 30; v. 280; p. 869.
Quick-setting mechanism. G. S. Hull. No. 1,336,839; Apr. 13; v. 273; p. 275.
Quilting-machine. J. Kanta and V. G. Huml. No. 1,329,411; Feb. 3; v. 271; p. 12.
Rabbeting apparatus. F. A. Daniels and G. Schuster. No. 1,346,079; July 6; v. 276; p. 149.
Rabble. E. C. Robinson. No. 1,353,422; Sept. 21; v. 278; p. 428.
Rabble-blade. W. H. Sayre. No. 1,340,916; May 25; v. 274; p. 629.
Race-track, Mechanical. B. L. Jones. No. 1,360,754; Nov. 30; v. 280; p. 915.
Rack: *See*—

Automobile-rack.	Lid-rack.
Baggage-rack.	Luggage-rack.
Ball-rack.	Music-rack.
Boiler-unit-assembling rack.	Oven turntable-rack.
Book-rack.	Photographer's developing-rack.
Broiling-rack.	
Calendar-rack.	Photographic-plate rack.
Can-rack.	Pipe-rack.
Card-rack.	Printer's rack.
Clothes-rack.	Sole-rack.
Cookie-box rack.	Spool-rack.
Crockery-draining rack.	Stamp-rack.
Developing-rack.	Stamp and pen rack.
Display-rack.	Sterilizer-rack.
Egg-boiling rack.	Stock-rack.
Feeding-rack.	Stock-loading rack.
Film-developing rack.	Tank-rack.
Grain and stock rack.	Tire-rack.
Hat-rack.	Towel-rack.
Hat and coat rack.	Vehicle-rack.
Hose-rack.	Wall-rack.
Jar-rack.	

Rack. F. J. MacDonald. No. 1,350,662; Aug. 24; v. 277; p. 664.
Rack. M. W. Meek. No. 1,333,930; Mar. 16; v. 272; p. 444.

Digitized by Google

Rack. G. F. Ramm. No. 1,345,954; July 6; v. 276; p. 124.
Rack. J. T. Tice. No. 1,335,621; Mar. 30; v. 272; p. 868.
Rack and corner bracket. C. D. Wiselogel. No. 1,359,643; Nov. 23; v. 280; p. 627.
Rack and ironing-board, Combination. D. W. Robbins. No. 1,335,857; Apr. 6; v. 273; p. 28.
Rack-assembling machine. O. Sliger. No. 1,354,424; Sept. 28; v. 278; p. 674.
Rack for hanging articles. O. H. Frank. No. 1,337,399; Apr. 20; v. 273; p. 456.
Rack for supporting articles, Belt-. O. H. Frank. No. 1,342,626; June 8; v. 275; p. 250.
Rack or shelving. R. W. Jefferies. No. 1,341,852; June 1; v. 275; p. 47.
Radial Milling-machine. C. G. Olson. No. 1,362,816; Dec. 21; v. 281; p. 463.
Radiating-casings, Making. C. Sonneborn. No. 1,348,328; Aug. 3; v. 277; p. 39.
Radiator: *See*—
Electric radiator. Vehicle-radiator.
Electric heat-radiator.
Radiator. C. S. Anderson. No. 1,327,797; Jan. 13; v. 270; p. 233.
Radiator. J. Behr. No. 1,351,462; Aug. 31; v. 277; p. 883.
Radiator. S. Bowman. No. 1,329,697; Feb. 3; v. 271; p. 65.
Radiator. J. M. Cammack. No. 1,350,066; Aug. 17; v. 277; p. 502.
Radiator. S. T. Canada. No. 1,336,816; Apr. 13; v. 273; p. 271.
Radiator. L. F. Clausing. No. 1,346,442; July 13; v. 276; p. 282.
Radiator. T. N. Coffelder. No. 1,336,999; Apr. 13; v. 273; p. 305.
Radiator. H. W. Coulter. No. 1,358,526; Nov. 9; v. 280; p. 319.
Radiator. E. T. Curran. No. 1,352,584; Sept. 14; v. 278; p. 204.
Radiator. P. H. Cusick. No. 1,328,789; Jan. 20; v. 270; p. 456.
Radiator. E. C. Dennert. No. 1,340,382; May 18; v. 274; p. 458.
Radiator. S. W. Dyckman. No. 1,339,513; May 11; v. 274; p. 293.
Radiator. H. C. Ellis. No. 1,355,218; Oct. 12; v. 279; p. 205.
Radiator. N. Franklin. No. 1,355,955; Oct. 19; v. 279; p. 388.
Radiator. J. B. Gabrielson. No. 1,335,890; Apr. 6; v. 273; p. 35.
Radiator. J. B. Gabrielson. No. 1,362,615; Dec. 21; v. 281; p. 423.
Radiator. J. Galamb. No. 1,334,269; Mar. 16; v. 272; p. 507.
Radiator. A. H. Hart. No. 1,328,151; Jan. 13; v. 270; p. 300.
Radiator. C. E. Jeannette. No. 1,342,680; June 8; v. 275; p. 261.
Radiator. F. Johnson. No. 1,340,774; May 18; v. 274; p. 532.
Radiator. H. Kaufman and S. Sciens. No. 1,355,835; Oct. 19; v. 279; p. 365.
Radiator. H. D. Kellogg. No 1,341,649; June 1; v. 275; p. 7.
Radiator. D M. Livingston. (Reissue.) No. 14,826; Mar. 30; v. 272; p. 887.
Radiator. G. H. Lober. No. 1,357,880; Nov. 2; v. 280; p. 129.
Radiator. L. Loughlin. No. 1,353,768; Sept. 21; v. 278; p. 498.
Radiator. C. C. Manker. No. 1,344,422; June 22; v. 275; p. 732.
Radiator. K. Meier. No. 1,329,198; Jan. 27; v. 270; p. 562.
Radiator. F. W. Merritt. No. 1,327,165; Jan. 6; v. 270; p. 53.
Radiator. A. Papenfuss. No. 1,363,165; Dec. 21; v. 281; p. 530.
Radiator. H. A. Prell. No. 1,330,342; Feb. 10; v. 271; p. 218.
Radiator. W. Reiferscheid. No. 1,344,772; June 29; v. 275; p. 867.
Radiator. F. L. Rice. No. 1,342,509; June 8; v. 275; p. 228.
Radiator. G. Rossi. No. 1,354,341; Sept. 28; v. 278; p. 657.
Radiator. P. Schneider. No. 1,356,562; Oct. 26; v. 279; p. 555.
Radiator. A. Shreibman. No. 1,329,256; Jan. 27; v. 270; p. 573.
Radiator. H. Sosskin. No. 1,338,753; May 4; v. 274; p. 19.
Radiator. G. J. Thomas. No. 1,337,415; Apr. 20; v. 273; p. 459.
Radiator. P. J. Tucker. No. 1,337,337; Apr. 20; v. 273; p. 444.
Radiator. J. F. Vidler. No. 1,356,478; Oct. 19; v. 279; p. 491.
Radiator. E. O. Weeks. No. 1,337,576; Apr. 20; v. 273; p. 489.
Radiator. J. E. Whitbeck. No. 1,346,577; July 13; v. 276; p. 309.
Radiator. G. J. Wilkman. No. 1,356,897; Oct. 26; v. 279; p. 620.
Radiator and making same, Automobile-. L. G. Hammer. No. 1,346,492; July 13; v. 276; p. 292.
Radiator and process of and apparatus for producing same. G. G. Jackson. No. 1,350,022; Aug. 17; v. 277; p. 493.
Radiator antifreeze device. J. Torrent, Jr. No. 1,353,678; Sept. 21; v. 278; p. 481.
Radiator, Automobile-. J. E. Bryans. No. 1,351,165; May 25; v. 274; p. 678.
Radiator, Automobile-. J. Clish. No. 1,341,784; June 1; v. 275; p. 34.
Radiator, Automobile-. C. Costello and S. G. Stoll. No. 1,343,352; June 15; v. 275; p. 457.
Radiator, Automobile-. J. W. Franz. No. 1,339,752; May 11; v. 274; p. 282.
Radiator, Automobile-. A. Gershkoff. No. 1,354,964; Oct. 5; v. 279; p. 103.
Radiator, Automobile-. H. H. Herold and T. F. Williams. No. 1,360,949; Nov. 30; v. 280; p. 952.
Radiator, Automobile-. L. A. Jones. No. 1,335,340; Mar. 30; v. 272; p. 816.
Radiator, Automobile. V. E. La Master. No. 1,346,216; July 13; v. 276; p. 236.
Radiator, Automobile-. J. J. Penhallegon. No. 1,334,315; Mar. 23; v. 272; p. 562.
Radiator, Automobile-. J. and D. H. Weller. No. 1,356,676; Oct. 26; v. 279; p. 577.
Radiator-base and reservoir for motor-vehicles, Cross-brace. H. P. Arndt. No. 1,355,803; Oct. 19; v. 279; p. 359.
Radiator-cap. P. M. Gelatt. No. 1,358,367; Nov. 9; v. 280; p. 274.
Radiator-cap. W. McArthur, Jr. No. 1,345,379; July 6; v. 276; p. 10.
Radiator-cap insert. A. C. Gaynor. No. 1,360,388; Nov. 30; v. 280; p. 842.
Radiator-cap lock. T. Hill. No. 1,358,549; Nov. 9; v. 280; p. 328.
Radiator-cap, Lock or safety device for. H. J. Dwillard and A. B. Shawd. No. 1,356,912; Oct. 26; v. 279; p. 623.
Radiator casing, Automobile-. M. Gerber. No. 1,348,710; Aug. 3; v. 277; p. 112.
Radiator-casing in combination with humidifying devices. W. M. Fulton. No. 1,349,050; Aug. 10; v. 277; p. 232.
Radiator-condenser. J. R. Brandon, Jr. No. 1,351,891; Sept. 7; v. 278; p. 36.
Radiator, Condensing-. D. Benjamin. No. 1,335,812; Apr. 6; v. 273; p. 20.
Radiator connection, Automobile-. J. J. Penhallegon. No. 1,330,899; Feb. 17; v. 271; p. 391.
Radiator, Cooling-. E. F. Norelius and W. Turnbull. No. 1,344,351; June 22; v. 275; p. 718.
Radiator-core. J. M. Fedders. No. 1,327,880; Jan. 6; v. 270; p. 93.
Radiator-core. J. M. Fedders. No. 1,328,323; Jan. 20; v. 270; p. 369.
Radiator-core. R. Kleine. No. 1,352,068; Sept. 7; v. 278; p. 69.
Radiator-core plate. C. F. Spery. No. 1,340,258; May 18; v. 274; p. 434.
Radiator-cores, Machine for assembling. T. N. Coffelder. No. 1,339,434; May 11; v. 274; p. 221.
Radiator-cover. J. A. Brodin. No. 1,344,376; June 22; v. 275; p. 723.
Radiator-cover. R. G. Brown. No. 1,351,093; Aug. 31; v. 277; p. 809.
Radiator-cover. A. W. Connor and G. D. Anderson. No. 1,354,889; Oct. 5; v. 279; p. 88.
Radiator-cover. A. F. Hoffman. No. 1,352,963; Sept. 14; v. 278; p. 279.
Radiator, Electric. C. V. Stevenson. No. 1,339,935; May 11; v. 274; p. 317.
Radiator, Electrical. R. Bonnaval. No. 1,335,423; Mar. 30; v. 272; p. 831.
Radiator filler-cap. C. F. Taylor. No. 1,359,471; Nov. 16; v. 280; p. 549.
Radiator-filling tubes, Combined cap and funnel for. G. C. Hurt. No. 1,339,562; May 11; v. 274; p. 245.
Radiator foot-rest. C. R. Squires. No. 1,347,129; July 20; v. 276; p. 476.
Radiator-frame. J. Springer. No. 1,357,597; Nov. 2; v. 280; p. 74.
Radiator, Gas-. L. Cinq-Mars. No. 1,339,944; May 11; v. 274; p. 318.
Radiator, Gas-. C. C. Manker. No. 1,343,634; June 15; v. 275; p. 512.
Radiator-heater, Electrical. W. Hurst. No. 1,327,279; Jan. 6; v. 270; p. 75.
Radiator, Incased. W. M. Fulton. No. 1,345,591; July 6; v. 276; p. 52.
Radiator manifold-pipes, Closure for. L. Deck. No. 1,329,700; Feb. 3; v. 271; p. 66.
Radiator, Motor-vehicle. P. F. Spery. No. 1,335,907; Apr. 6; v. 273; p. 56.

Digitized by Google

Radiator-protector. J. F. Dudgeon. No. 1,338,614; Apr. 27; v. 273; p. 754.
Radiator-protector. G. N. Thomas. No. 1,345,283; June 29; v. 275; p. 964.
Radiator-repairing apparatus. G. S. Hall. No. 1,350,866; Aug. 24; v. 277; p. 703.
Radiator, Sectional. W. I. Gibson. No. 1,347,219; July 20; v. 276; p. 493.
Radiator-shield. H. H. Crawford. No. 1,352,184; Sept. 7; v. 278; p. 90.
Radiator-shield. J. M. Dougherty and H. C. Tabler. No. 1,361,372; Dec. 7; v. 281; p. 78.
Radiator-shield. G. W. Payne. No. 1,327,730; Jan. 13; v. 270; p. 220.
Radiator-shield. C. W. G. Sodemann. No. 1,343,414; June 15; v. 275; p. 469.
Radiator shield, Automobile-. H. F. McClain. No. 1,358,224; Nov. 9; v. 280; p. 258.
Radiator-shields, Top for. C. W. G. Sodemann. No. 1,358,995; Nov. 16; v. 280; p. 457.
Radiator-shutter. J. M. Fedders. No. 1,329,589; Feb. 3; v. 271; p. 46.
Radiator-shutter. C. A. Pipenhagen. No. 1,336,978; Apr. 13; v. 273; p. 302.
Radiator-stand. J. H. Staley. No. 1,349,633; Aug. 17; v. 277; p. 418.
Radiator-stand. A. A. Worsen. No. 1,354,428; Sept. 28; v. 278; p. 675.
Radiator, Steam and water. J. Lange. No. 1,327,870; Jan. 13; v. 270; p. 246.
Radiator steam-trap. G. D. Hoffman. No. 1,351,037; Aug. 31; v. 277; p. 799.
Radiator-support. G. G. Gerber. No. 1,357,397; Nov. 2; v. 280; p. 38.
Radiator-support. A. L. W. Ohmacht. No. 1,344,559; June 22; v. 275; p. 760.
Radiator systems, Heat-storing attachment for. E. V. Schranck and E. F. Kunkel. No. 1,338,750; May 4; v. 274; p. 19.
Radiator-tubes, Making. R. B. Hooker. No. 1,363,416; Dec. 28; v. 281; p. 618.
Radiator-tubes, Method and apparatus for manufacturing. F. G. Cooke. 1,339,104; May 4; v. 274; p. 85.
Radiator, Tubular. F. H. Stolp. No. 1,358,796; Nov. 16; v. 280; p. 418.
Radiator unit. H. C. Harrison. No. 1,336,136; Apr. 6; v. 273; p. 82.
Radiator unit, Humidifying-. F. E. Grosvold. No. 1,353,744; Sept. 21; v. 278; p. 494.
Radiator ventilator and cap. W. H. Appleby. No. 1,344,609; June 29; v. 275; p. 835.
Radiator, Waste-heat. J. E. Nute. No. 1,328,540; Jan. 20; v. 270; p. 410.
Radiators, Adjustable bracket for supporting wall-. A. F. Gleockle, Jr. No. 1,334,749; Mar. 23; v. 272; p. 644.
Radiators, Air-exhauster for steam-. M. E. Hershey. No. 1,352,265; Sept. 7; v. 278; p. 106.
Radiators, Air-valve for. F. E. Etzel. No. 1,347,216; July 20; v. 276; p. 493.
Radiators, Air-valve for steam-. W. J. Cook. No. 1,337,045; Apr. 13; v. 273; p. 215.
Radiators, Attachment for gas-engine. E. Ferriss. No. 1,341,419; May 25; v. 274; p. 727.
Radiators, Automatic closure for automobile-. E. M. Vaughan. No. 1,335,356; Mar. 30; v. 272; p. 819.
Radiators, Cap for automobile-. H. S. Morgan. No. 1,349,187; Aug. 10; v. 277; p. 247.
Radiators, Closure for the water-tanks of. J. D. Harris. No. 1,363,251; Dec. 28; v. 281; p. 588.
Radiators, Coupling for automobile-. F. L. Moore. No. 1,360,005; Nov. 23; v. 280; p. 700.
Radiators, Device for supplying water to automobile-. W. Welshausen. No. 1,336,769; Apr. 13; v. 273; p. 261.
Radiators, Dust-collecting shield for heating-. C. W. G. Sodemann. No. 1,358,994; Nov. 16; v. 280; p. 457.
Radiators, Eccentric bushing for steam-. J. G. Grierson. No. 1,346,403; July 13; v. 276; p. 273.
Radiators, Means for repairing. W. M. Wright, C. Teeples, and J. J. Lamb. No. 1,353,009; Sept. 14; v. 278; p. 288.
Radiators, Nipple-coupling for. V. R. O'Brien and W. N. Parks. No. 1,340,289; May 18; v. 274; p. 440.
Radiators, Ornament for caps of. A. G. Canby. No. 1,362,672; Dec. 21; v. 281; p. 434.
Radiators, Repairing. W. M. Wright, C. Teeples, and J. J. Lamb. No. 1,342,703; June 8; v. 275; p. 266.
Radiators, Section for. L. Shapiro. No. 1,363,678; Dec. 28; v. 281; p. 669.
Radiators, Selective cooling and heating systems for automobile-. H. J. Peterson. No. 1,353,418; Sept. 21; v. 278; p. 428.
Radiators, Shield for covers for. J. Hook. No. 1,329,836; Feb. 3; v. 271; p. 92.
Radiators, Shutter for automobile-. V. C. Miller. No. 1,355,411; Oct. 12; v. 279; p. 242.
Radiators, Temperature-indicator for automobile-. W. F. Jenkins. No. 1,340,830; May 18; v. 274; p. 542.
Radiators, Thawing means for. B. M. Cobe. No. 1,360,178; Nov. 23; v. 280; p. 434.
Radiators, Water-bag for filling automobile-. B. T. Sublett. No. 1,341,157; May 25; v. 274; p. 677.
Radio receiving apparatus. R. E. Thompson. No. 1,328,933; Jan. 27; v. 270; p. 513.
Radio system, Submarine. P. E. Stogoff. No. 1,343,165; June 8; v. 275; p. 358.
Radiograph-mount. A. W. Buck. No. 1,361,678; Dec. 7; v. 281; p. 140.
Radiophone. W. W. Coblentz. No. 1,345,586; July 6; v. 276; p. 51.
Radioreceiving system. E. F. W. Alexanderson. No. 1,350,912; Aug. 24; v. 277; p. 711.
Radiosignaling. J. L. Hogan, Jr. No. 1,350,100; Aug. 17; v. 277; p. 508.
Radiosignaling apparatus. F. Lowenstein. No. 1,339,772; May 11; v. 274; p. 286.
Radiosignaling apparatus. R. A. Weagant. No. 1,336,398; Apr. 6; v. 273; p. 131.
Radiosignaling apparatus. R. A. Weagant. No. 1,356,751; Oct. 26; v. 279; p. 592.
Radiosignaling apparatus. R. A. Weagant and F. N. Waterman. No. 1,356,752; Oct. 26; v. 279; p. 592.
Radiosignaling, Apparatus for. R. A. Weagant. No. 1,338,889; May 4; v. 274; p. 44.
Radiosignaling, Apparatus for preventing static interference in. R. A. Weagant. No. 1,353,002; Sept. 14; v. 278; p. 287.
Radiosignaling apparatus. Wave-changer for. G. Hill, No. 1,345,007; June 29; v. 275; p. 910.
Radiosignaling system. E. F. W. Alexanderson. No. 1,360,169; Nov. 23; v. 280; p. 732.
Radiosignaling system. A. N. Goldsmith. No. 1,347,328; July 20; v. 276; p. 516.
Radiosignaling system. J. H. Rogers. No. 1,349,103; Aug. 10; v. 277; p. 240.
Radiosignaling system. J. H. Rogers. No. 1,349,104; Aug. 10; v. 277; p. 241.
Radiotelegraph system. M. Compare. No. 1,356,488; Oct. 19; v. 279; p. 493.
Radiotelegraphic plants, Spintherometer for. A. Marino. No. 1,328,288; Jan. 20; v. 270; p. 362.
Radiotelegraphy. R. R. Beal. No. 1,350,695; Aug. 24; v. 277; p. 671.
Radiotelegraphy. H. F. Elliott. No. 1,352,883; Sept. 14; v. 278; p. 264.
Radiotelegraphy. L. F. Fuller. No. 1,330,254; Feb. 10; v. 271; p. 201.
Radiotelegraphy. L. F. Fuller. No. 1,337,833; Apr. 13; v. 273; p. 274.
Radiotelegraphy. L. F. Fuller. No. 1,339,191; May 4; v. 274; p. 100.
Radiotelegraphy. L. F. Fuller. No. 1,352,059; Sept. 7; v. 278; p. 67.
Radiotelegraphy. L. F. Fuller. No. 1,352,886; Sept. 14; v. 278; p. 265.
Radiotelegraphy. L. F. Fuller. No. 1,358,143; Nov. 9; v. 280; p. 242.
Radiotelegraphy. L. F. Fuller. No. 1,358,144; Nov. 9; v. 280; p. 242.
Radiotelegraphy. J. H. Hammond, Jr. No. 1,350,801; Aug. 24; v. 277; p. 691.
Radiotelegraphy. R. G. Marx and L. F. Fuller. No. 1,344,052; June 22; v. 275; p. 660.
Radiotelephone system. L. de Forest. No. 1,348,213; Aug. 3; v. 277; p. 16.
Radium, Producing compounds of. H. O. Hedström. No. 1,338,831; May 4; v. 274; p. 33.
Radium, Producing compounds of. H. O. Hedström. No. 1,353,532; Sept. 21; v. 278; p. 450.
Radius-rod. T. E. Curry. No. 1,362,681; Dec. 21; v. 281; p. 436.
Radius-rod truss. W. F. Hudson. No. 1,336,353; Apr. 6; v. 273; p. 123.
Raft, Life-. J. F. Twigg. No. 1,336,872; Apr. 13; v. 273; p. 281.
Raft, Log-. F. Blewer. No. 1,360,361; Nov. 30; v. 280; p. 837.
Raft, Lumber-. N. R. Smith. No. 1,331,034; Feb. 17; v. 271; p. 417.
Rail. H. T. Kruse. No. 1,355,400; Oct. 12; v. 279; p. 400.
Rail. W. McClenahan. No. 1,340,454; May 18; v. 274; p. 472.
Rail. N. I. Woolsey. No. 1,350,198; Aug. 17; v. 277; p. 527.
Rail adjusting and gaging device. S. Morano. No. 1,326,953; Jan. 6; v. 270; p. 14.
Rail-anchor. L. J. Berkeley. No. 1,329,360; Feb. 3; v. 271; p. 4.
Rail-anchor. L. J. Berkeley. No. 1,356,688; Oct. 26; v. 279; p. 580.
Rail-anchor. L. J. Berkeley. No. 1,356,689; Oct. 26; v. 279; p. 580.
Rail-anchor. L. J. Berkeley. No. 1,356,690; Oct. 26; v. 279; p. 580.
Rail-anchor. L. J. Berkeley and J. Reid, Jr. No. 1,355,302; Oct. 12; v. 279; p. 222.
Rail-anchor. F. C. Elgena. No. 1,355,949; Oct. 19; v. 279; p. 387.
Rail-anchor. H. G. Gillmor. No. 1,340,135; May 11; v. 274; p. 355.
Rail-anchor. H. G. Gillmor. No. 1,358,726; Nov. 16; v. 280; p. 404.
Rail-anchor. H. G. Gillmor. No. 1,358,727; Nov. 16; v. 280; p. 404.
Rail-anchor. J. Lundie. No. 1,350,321; Aug. 24; v. 277; p. 597.

Digitized by Google

Rail-anchor. W. M. Mitchell. No. 1,338,270; Mar. 9; v. 272; p. 259.
Rail-anchor. W. M. Mitchell. No. 1,338,148; Apr. 27; v. 273; p. 667.
Rail-anchor. W. M. Mitchell. No. 1,338,149; Apr. 27; v. 273; p. 667.
Rail-anchor. C. B. Moore. No. 1,339,123; May 4; v. 274; p. 89.
Rail-anchor. F. A. Poor. No. 1,357,419; Nov. 2; v. 280; p. 41.
Rail-anchor. J. M. Scott. No. 1,347,595; July 27; v. 276; p. 626.
Rail-anchor. H. H. Sponenburg. No. 1,350,676; Aug. 24; v. 277; p. 667.
Rail-anchor. H. H. Sponenburg. No. 1,350,677; Aug. 24; v. 277; p. 667.
Rail-anchor. H. H. Sponenburg. No. 1,357,360; Nov. 2; v. 280; p. 31.
Rail-anchor. A. L. Stanford. No. 1,347,301; July 20; v. 276; p. 510.
Rail-anchor. A. L. Stanford. No. 1,347,302; July 20; v. 276; p. 510.
Rail-anchor. H. G. Warr. No. 1,350,689; Aug. 24; v. 277; p. 670.
Rail-anchor. B. Wolhaupter. No. 1,344,014; June 22; v. 275; p. 653.
Rail-anchor. B. Wolhaupter. No. 1,344,015; June 22; v. 275; p. 653.
Rail-anchor. B. Wolhaupter. No. 1,344,016; June 22; v. 275; p. 653.
Rail-anchor. B. Wolhaupter. No. 1,345,428; July 6; v. 276; p. 20.
Rail-anchor, Adjustable. B. Wohlhaupter. No. 1,353,204; Sept. 21; v. 278; p. 386.
Rail-anchor and tie-plate, Combined. R. Johnson. No. 1,329,664; Feb. 3; v. 271; p. 59.
Rail-anchor, Removable welded. B. Wolhaupter. No. 1,329,153; Jan. 27; v. 270; p. 554.
Rail-anchor tie-plate. W. M. Osborn. No. 1,347,969; July 27; v. 276; p. 699.
Rail-anchor, Welded. B. Wolhaupter. No. 1,359,854; Nov. 23; v. 280; p. 669.
Rail and electrical conductor, Compound. F. O. Boswell. No. 1,346,168; July 13; v. 276; p. 227.
Rail-anticreeper. R. L. Cairncross. No. 1,361,962; Dec. 14; v. 281; p. 244.
Rail, Belt-. J. K. Toles. No. 1,333,141; Mar. 9; v. 272; p. 235.
Rail-bender. E. F. Bennett. No. 1,337,587; Apr. 20; v. 273; p. 491.
Rail-bender. P. M. Bibb. No. 1,348,535; Aug. 3; v. 277; p. 78.
Rail-bender. E. F. Goben. No. 1,342,263; June 1; v. 275; p. 128.
Rail-bender. H. P. Rodgers. No. 1,359,533; Nov. 23; v. 280; p. 606.
Rail-bender. S. V. Tench. No. 1,355,713; Oct. 12; v. 279; p. 301.
Rail-bolt. M. J. Madison. No. 1,337,365; Apr. 20; v. 273; p. 449.
Rail-bond. W. P Bovard. No. 1,336,502; Apr. 13; v. 273; p. 210.
Rail-bond. J. R. Brown. No. 1,336,940; Apr. 13; v. 273; p. 295.
Rail-bond. L. P. Crecelius. No. 1,335,428; Mar. 30; v. 272; p. 832.
Rail-bond. E. M. Deems. No. 1,333,904; Mar. 16; v. 272; p. 489.
Rail-bond. W. C. Starkey. No. 1,336,932; Apr. 13; v. 273; p. 293.
Rail-bonds, Applying. W. C. Starkey. No. 1,336,931; Apr. 13; v. 273; p. 293.
Rail-brace. W. W. Coleman. No. 1,355,814; Oct. 19; v. 279; p. 361.
Rail-brace. J. G. Mueller. No. 1,353,412; Sept. 21; v. 278; p. 426.
Rail brace, Slide-. L. Dussart. No. 1,333,584; Mar. 9; v. 272; p. 319.
Rail-bracing-spike retainer. G. C. Wortman. No. 1,344,109; June 22; v. 275; p. 671.
Rail-chair. C. S. Clark. No. 1,342,251; June 1; v. 275; p. 126.
Rail-chair. R. E. Einstein. No. 1,358,066; Nov. 9; v. 280; p. 227.
Rail-chair. G. E. Frey. No. 1,328,917; Jan. 27; v. 270; p. 510.
Rail-chair. N. Giacomelli. No. 1,348,794; Aug. 3; v. 277; p. 128.
Rail-chair. R. S. Roberts. No. 1,360,685; Nov. 30; v. 280; p. 901.
Rail-chair. W. D. Scott. No. 1,336,099; Apr. 6; v. 273; p. 75.
Rail-clamp. R. F. Brown. No. 1,340,598; May 18; v. 274; p. 499.
Rail-clamp. G. M. Fiero. No. 1,332,117; Feb. 24; v. 271; p. 639.
Rail-clamp. V. F. Franck. No. 1,345,844; July 6; v. 276; p. 101.
Rail-clamp. H. Frappart and J. B. Bouvier. No. 1,353,577; Sept. 21; v. 278; p. 460.
Rail-clamp. C. W. Hill. No. 1,338,450; Apr. 27; v. 273; p. 724.
Rail-clamp. F. Wisniewski. No. 1,342,078; June 1; v. 275; p. 91.
Rail-clip. C. Paff. No. 1,330,277; Feb. 10; v. 271; p. 205.
Rail, Compound. J. K. Boyd. No. 1,346,394; July 13; v. 276; p. 272.
Rail crossing, Automatic continuous-. H. W. Pattison. No. 1,344,957; June 29; v. 275; p. 901.
Rail-cutting device. F. C. Hasse. No. 1,342,502; June 8; v. 275; p. 226.
Rail diamond, Through-. H. A. Coulter. No. 1,344,866; June 29; v. 275; p. 884.
Rail-fastener. E. J. Davis. No. 1,358,529; Nov. 9; v. 280; p. 320.
Rail-fastener. G. L. Fisk. No. 1,358,535; Nov. 9; v. 280; p. 321.
Rail-fastener. C. W. Richardson. No. 1,345,958; July 6; v. 276; p. 125.
Rail-fastener. W. Sanowski. No. 1,339,718; May 11; v. 274; p. 276.
Rail-fastener. J. T. Wade. No. 1,337,862; Apr. 20; v. 273; p. 544.
Rail-fastener. J. Wiecek. No. 1,342,196; June 1; v. 275; p. 115.
Rail-fastening. J. Dolan. No. 1,358,832; Nov. 16; v. 280; p. 425.
Rail-fastening. J. A. Hayward. No. 1,355,078; Oct. 5; v. 279; p. 125.
Rail-fastening. C. A. Henry. No. 1,348,112; July 27; v. 276; p. 728.
Rail-fastening. L. Nagy. No. 1,361,532; Dec. 7; v. 281; p. 112.
Rail-fastening device. L. Fritz. No. 1,354,292; Sept. 28; v. 278; p. 648.
Rail-fastening device. D. A. Tenge. No. 1,351,073; Aug. 31; v. 277; p. 806.
Rail for monorail railways, Grooved. R. W. Shoemaker. No. 1,355,800; Oct. 12; v. 279; p. 317.
Rail for roadways, Partition-. H. U. Boureau. No. 1,359,787; Nov. 23; v. 280; p. 656.
Rail, Guard-. A. M. Cornell. No. 1,337,544; Apr. 20; v. 273; p. 483.
Rail holder, Slide-. C. J. Luther. No. 1,333,322; Mar. 9; v. 272; p. 269.
Rail-joint. L. W. Bailey. No. 1,348,075; July 27; v. 276; p. 721.
Rail-joint. G. H. Barbour. No. 1,348,345; Aug. 3; v. 277; p. 43.
Rail-joint. B. M. Bates. No. 1,328,113; Jan. 13; v. 270; p. 292.
Rail-joint. W. E. Becker. No. 1,332,792; Mar. 2; v. 272; p. 118.
Rail-joint. A. D. Bishoff. No. 1,363,080; Dec. 21; v. 281; p. 513.
Rail-joint. J. Clancy. No. 1,329,227; Jan. 27; v. 270; p. 568.
Rail-joint. D. C. Cussen. No. 1,329,507; Feb. 3; v. 271; p. 31.
Rail-joint. Y. Dedik. No. 1,363,574; Dec. 28; v. 281; p. 649.
Rail-joint. B. Desrochers. No. 1,359,233; Nov. 16; v. 280; p. 501.
Rail-joint. C. A. Disbrow. No. 1,332,207; Mar. 2; v. 272; p. 6.
Rail-joint. L. Eibner. No 1,342,377; June 1; v. 275; p. 148.
Rail-joint. J. E. Elkins. No. 1,334,602; Mar. 23; v. 272; p. 617.
Rail-joint. P. J. Fenske. No. 1,350,215; Aug. 17; v. 277; p. 581.
Rail-joint. O. Freimark. No. 1,327,541; Jan. 6; v. 270; p. 124.
Rail-joint. S. A. Hammons. No. 1,348,107; July 27; v. 276; p. 727.
Rail-joint. J. Janik. No. 1,347,376; July 20; v. 276; p. 525.
Rail-joint. J. J. Jezik. No. 1,328,155; Jan. 13; v. 270; p. 300.
Rail-joint. S. A. Jones. No. 1,346,656; July 13; v. 276; p. 324.
Rail-joint. S. J. and F. Kacsmarek. No. 1,363,322; Dec. 28; v. 281; p. 601.
Rail-joint. P. Kantor. No. 1,356,629; Oct. 26; v. 279; p. 568.
Rail-joint. J. P. Lavoie. No. 1,355,154; Oct. 12; v. 279; p. 192.
Rail-joint. J. A. McDonald. No. 1,356,931; Oct. 26; v. 279; p. 627.
Rail-joint. D. McEachern. No. 1,352,669; Sept. 14; v. 278; p. 221.
Rail-joint. J. Mészáros. No. 1,331,447; Feb. 17; v. 271; p. 493.
Rail-joint. C. F. Miller. No. 1,335,693; Mar. 30; v. 272; p. 882.
Rail-joint. E. F. Morris. No. 1,341,573; May 25; v. 274; p. 757.
Rail-joint. N. A. Newdick and W. E. Moody. No. 1,357,584; Nov. 2; v. 280; p. 72.
Rail-joint. P. Niewiarowski. No. 1,362,957; Dec. 21; v. 281; p. 488.
Rail-joint. J. J. Powlick. No. 1,342,065; June 1; v. 275; p. 89.

Digitized by Google

Alphabetical list of inventions—Continued.

Rail-joint. G. W. Probst. No. 1,335,751; Apr. 6; v. 273; p. 9.
Rail-joint. J. Rizzuto. No. 1,342,228; June 1; v. 275; p. 121.
Rail-joint. H. F. Roach. No. 1,361,774; Dec. 7; v. 281; p. 159.
Rail-joint. H. F. Roach. No. 1,361,775; Dec. 7; v. 281; p. 159.
Rail-joint. N. H. Roe. No. 1,341,931; June 1; v. 275; p. 63.
Rail-joint. W. M. Ryan. No. 1,331,031; Feb. 17; v. 271; p. 417.
Rail-joint. G. B. and W. M. Ryan. No. 1,350,182; Aug. 17; v. 277; p. 524.
Rail-joint. P. A. Ryczek. No. 1,333,877; Mar. 16; v. 272; p. 434.
Rail-joint. J. Sedlak. No. 1,347,414; July 20; v. 276; p. 533.
Rail-joint. J. Shepard. No. 1,348,244; Aug. 3; v. 277; p. 23.
Rail-joint. H. E. Swanson. No. 1,360,697; Nov. 30; v. 280; p. 903.
Rail-joint. J. Szarek. No. 1,342,006; June 1; v. 275; p. 77.
Rail-joint. J. Takacs. No. 1,348,067; July 27; v. 276; p. 720.
Rail-joint. W. P. Taylor. No. 1,361,507; Dec. 7; v. 281; p. 107.
Rail-joint. G A. Tickerhoof. No. 1,331,293; Feb. 17; v. 271; p. 464.
Rail-joint. A. L. Wartman. No. 1,344,604; June 22; v. 275; p. 769.
Rail-joint. M. J. Wightman. No. 1,343,070; June 8; v. 275; p. 339.
Rail-joint. C. J. Winslow. No. 1,343,605; June 15; v. 275; p. 507.
Rail joint and brace. L. A. Buck. No. 1,342,323; June 1; v. 275; p. 139.
Rail joint and fastener. J. Sinkovich. No. 1,328,695; Jan. 20; v. 270; p. 488.
Rail joint and support. B. G. Washington. No. 1,353,868; Sept. 28; v. 278; p. 561.
Rail-joint bar, Adjustable. B. G. Braine. No. 1,361,818; Dec. 14; v. 281; p. 214.
Rail-joint box. W. C. Mason. No. 1,344,808; June 29; v. 275; p. 874.
Rail-joint-coupling device. J. H. Harnsberger. No. 1,353,653; Sept. 21; v. 278; p. 476.
Rail-joint, Insulated. W. S. Boyce. No. 1,361,816; Dec. 14; v. 281; p. 214.
Rail-joint, Insulated. G. W. Whiteman. No. 1,349,352; Aug. 10; v. 277; p. 290.
Rail-joint, Insulated and armored. C. G. McCaulley. No. 1,351,666; Aug. 31; v. 277; p. 924.
Rail-joint mechanism. M. Noir. No. 1,336,483; Apr. 13; v. 273; p. 206.
Rail-joint nut-lock and guard. J. F. Williams. No. 1,357,370; Nov. 2; v. 280; p. 32.
Rail-joint splice-bar. T. E. Rust. No. 1,347,877; July 27; v. 276; p. 682.
Rail-joint, Welded. C. F. Gallor. No. 1,361,379; Dec. 7; v. 281; p. 80.
Rail-joints, Manufacture of splice-bars for compromise. R. J. McComb. No. 1,333,431; Mar. 9; v. 272; p. 289.
Rail-lifter. J. B. Stimatize. No. 1,351,705; Aug. 31; v. 277; p. 931.
Rail-lock. E. E. Howard. No. 1,332,179; Feb. 24; v. 271; p. 650.
Rail plate and fastener. J. G. Hill. No. 1,338,016; Apr. 27; v. 273; p. 642.
Rail-profile instrument. F. V. Corman. No. 1,347,078; July 20; v. 276; p. 467.
Rail-seat holder. V. E. Randall. No. 1,337,621; Apr. 20; v. 273; p. 498.
Rail-section, Adjustable switch-point. P. Camell. No. 1,344,259; June 22; v. 275; p. 700.
Rail section, U-. G. V. Whiteman. No. 1,361,428; Dec. 7; v. 281; p. 90.
Rail securing and supporting means. D. V. Mott. No. 1,354,000; Sept. 28; v. 278; p. 588.
Rail-smoothing machine. J. G. McMichael. No. 1,358,766; Nov. 16; v. 280; p. 412.
Rail-spike. J. H. Brumfield. No. 1,342,661; June 8; v. 275; p. 257.
Rail-straightening device. A. E. Soucy. No. 1,358,035; Nov. 9; v. 280; p. 221.
Rail structure, Guard-. W. M. Creitz. No. 1,352,356; Sept. 7; v. 278; p. 123.
Rail structure, Removable hand-. J. M. Weir. No. 1,356,675; Oct. 26; v. 279; p. 577.
Rail structure, Side-. M. B. Okun. No. 1,361,610; Dec. 7; v. 281; p. 127.
Rail-support. J. Kropacs. No. 1,328,002; Jan. 13; v. 270; p. 271.
Rail-support. O. Valeri. No. 1,358,661; Nov. 9; v. 280; p. 346.
Rail-support for temporary use, Auxiliary. J. J. Duffy. No. 1,353,572; Sept. 21; v. 278; p. 459.
Rail-tie. J. F. Altaffer. No. 1,349,310; Aug. 10; v. 277; p. 282.
Rail-tie. G. H. Barbour. No. 1,348,344; Aug. 3; v. 277; p. 42.
Rail-tie. I. Bielawski. No. 1,357,941; Nov. 9; v. 280; p. 202.
Rail-tie. A. Heeter. No. 1,361,579; Dec. 7; v. 281; p. 121.
Rail-tie. P. Jasura. No. 1,334,613; Mar. 23; v. 272; p. 618.
Rail-tie. E. Kamienski. No. 1,357,570; Nov. 2; v. 280; p. 69.
Rail-tie. M. Markovich. No. 1,329,538; Feb. 3; v. 271; p. 37.
Rail-tie. Z. Slawinski. No. 1,358,256; Nov. 9; v. 280; p. 264.
Railway. R. O. Thompson. No. 1,359,205; Nov. 16; v. 280; p. 595.
Rail tie and fastener. E. T. Wade. No. 1,348,460; Aug. 3; v. 277; p. 64.
Rail tie and fastening. I. N. Carey. No 1,345,126; June 29; v. 275; p. 933.
Rail-tie plate. W. M. Osborn. No. 1,334,673; Mar. 23; v. 272; p. 629.
Rail-torpedo safety and positive lock. H. B. Spencer. No. 1,336,792; Apr. 13; v. 273; p. 266.
Rails, Device for bending metallic track-. W. Louden. No. 1,342,554; June 8; v. 275; p. 237.
Rails, Staking device for road-. M. S. Hotchkiss. No. 1,349,340; Aug. 10; v. 277; p. 288.
Rails, Support for contact-. H. B. Taylor. No. 1,334,877; Mar. 23; v. 272; p. 670.
Rails, System of bonding. L. P. Crecelius. No. 1,327,947; Jan. 13; v. 270; p. 260.
Railway, Aerial. M. A. Aner. No. 1,338,663; May 4; v. 274; p. 3.
Railway, Aeroplane pleasure-. F. M. Williams. No. 1,328,238; Jan. 13; v. 270; p. 316.
Railway and roadway vehicle, Convertible. A. L. Riker. No. 1,347,828; July 27; v. 276; p. 671.
Railway and tramway points, signals, &c., Apparatus for operating. W. S. Roberts. No. 1,331,379; Feb. 17; v. 271; p. 480.
Railway-bed and rail-support. G. S. Usher. No. 1,350,900; Aug. 24; v. 277; p. 709.
Railway-beds, Building. L. L. Wilson. No. 1,350,760; Aug. 24; v. 277; p. 684.
Railway block-signal system, Automatic electric. L. W. Kite. No. 1,327,329; Jan. 6; v. 270; p. 83.
Railway-brake appliance. J. F. Drinkwater. No. 1,328,138; Jan. 13; v. 270; p. 297.
Railway-brake, Safety. J. B. Wright and F. O. Lawson. No. 1,352,861; Sept. 14; v. 278; p. 259.
Railway-cab signal. J. J. Michels. No. 1,360,003; Nov. 23; v. 280; p. 699.
Railway-carriages, Journal-box for. N. A. Palmgren. No. 1,353,489; Sept. 21; v. 278; p. 442.
Railway construction. A. W. Rayne. No. 1,338,590; Apr. 27; v. 273; p. 750.
Railway construction, Street-. W. S. Godwin. No. 1,349,451; Aug. 10; v. 277; p. 309.
Railway cross-tie, Metallic. J. Leventry. No. 1,328,574; Jan. 20; v. 270; p. 416.
Railway-crossing. S. Balkwill. No. 1,340,205; May 18; v. 274; p. 425.
Railway-crossing. C. Clark. No. 1,340,750; May 18; v. 274; p. 527.
Railway-crossing. J. P. Houk. No. 1,341,320; May 25; v. 274; p. 708.
Railway-crossing. R. Rothwell. No. 1,338,253; Apr. 27; v. 273; p. 687.
Railway-crossing. E. Sheehan. No. 1,362,047; Dec. 14; v. 281; p. 260.
Railway-crossing. P. G. Stevenson. No. 1,359,929; Nov. 23; v. 280; p. 684.
Railway-crossing. C. A. Zobel. No. 1,347,431; July 20; v. 276; p. 536.
Railway-crossing gate. E. A. Martel and L. J. Mercier. No. 1,355,492; Oct. 12; v. 279; p. 259.
Railway-crossing gate, Automatic. A. Namolick. No. 1,360,139; Nov. 23; v. 280; p. 726.
Railway-crossing gate, Automatic safety. A. Sarvolley. No. 1,361,408; Dec. 7; v. 281; p. 86.
Railway-crossing safety foot-guard. J. Mallett. No. 1,329,789; Feb. 3; v. 271; p. 82.
Railway-crossing signal. Y. McKinzie. No. 1,354,981; Oct. 5; v. 279; p. 106.
Railway-crossing signal. A. Mennen. No. 1,336,913; Apr. 13; v. 273; p. 289.
Railway-crossing signal. C. W. F. Strobel. No. 1,328,854; Jan. 27; v. 270; p. 497.
Railway-crossing signal. C. Theriot. No. 1,328,932; Jan. 27; v. 270; p. 513.
Railway-crossing signals, Track-circuit relay for. J. W. Smedberg. No. 1,357,428; Nov. 2; v. 280; p. 48.
Railway-crossing, Silent. G. C. and H. W. Melrose. No. 1,337,527; Apr. 20; v. 273; p. 480.
Railway-crossing warning-signal. E. H. Medén. No. 1,348,507; Aug. 3; v. 277; p. 73.
Railway-crossings, Safety device for. C. A. Snyder. No. 1,342,002; June 1; v. 275; p. 76.
Railway-crossings, Safety device for cattle at. J. I. Dominguez. No. 1,345,145; June 29; v. 275; p. 937.

Digitized by Google

Railway-crossings, Signal and gate operating means for. J. Virag. No. 1,344,525; June 22; v. 275; p. 753.
Railway-crosstie. J. Leventry. No. 1,354,258; Sept. 28: v. 278; p. 641.
Railway-crosstie. D. H. Snyder. No. 1,360,594; Nov. 30; v. 280; p. 883.
Railway-crosstie, Metallic. J. A. Hyle. No. 1,339,345; May 4; v. 274; p. 128.
Railway-crosstie, Metallic. L. Leventry. No. 1,331,114; Feb. 17; v. 271; p. 432.
Railway draft appliance. H. C. Buhoup. No. 1,339,020; May 4; v. 274; p. 68.
Railway draft appliance. E. George, Jr. No. 1,346,538; July 13; v. 276; p. 301.
Railway-draft appliance. W. J. Regan. No. 1,362,043; Dec. 14; v. 281; p. 259.
Railway draft-gears, Manufacture of. S. Simonson. No. 1,352,152; Sept. 7; v. 278; p. 85.
Railway draft-gears, Manufacture of yokes for. H. T. Anderson. No. 1,352,167; Sept. 7; v. 278; p. 87.
Railway draft-gears, Yoke for. S. Simonson. No. 1,352,151; Sept. 7; v. 278; p. 84.
Railway electric track-circuit system. R. W. Tarrant. No. 1,345,646; July 6; v. 276; p. 62.
Railway, Elevated. H. C. Berry. No. 1,361,809; Dec. 14; v. 281; p. 212.
Railway feeder-circuits, System of distribution for. A. W. Copley. No. 1,349,365; Aug. 10; v. 277; p. 293.
Railway-frog. W. M. Mitchell. No. 1,335,385; Mar. 30; v. 272; p. 824.
Railway-frog. B. J. Morgan. No. 1,338,786; May 4; v. 274; p. 26.
Railway-frog. P. S. Reid. No. 1,348,447; Aug. 3; v. 277; p. 62.
Railway-gate. J. Beresnay. No. 1,350,689; Aug. 24; v. 277; p. 660.
Railway-gate. K. Chrobak. No. 1,332,710; Mar. 2; v. 272; p. 102.
Railway-gate. W. C. Harman. No. 1,330,529; Feb. 10; v. 271; p. 253.
Railway-gate. W. Maxwell. No. 1,329,054; Jan. 27; v. 270; p. 535.
Railway-gate. M. J. N. Schneider. No. 1,329,022; Jan. 27; v. 270; p. 529.
Railway-gate. F. A. Strieter. No. 1,344,776; June 29; v. 275; p. 867.
Railway-gate, Automatic. W. L. Cassidy. No. 1,327,860; Jan. 13; v. 270; p. 244.
Railway-gate, Automatic. P. Kilisztoff. No. 1,344,766; June 29; v. 275; p. 865.
Railway-gate, Automatic. J. Kiss, and J. R. McGee. No. 1,356,924; Oct. 26; v. 279; p. 626.
Railway-gate, Automatic. J. Schmitt. No. 1,356,091; Oct. 19; v. 279; p. 416.
Railway-gate-control mechanism. F. A. Grant. No. 1,353,038; Sept. 14; v. 278; p. 294.
Railway grade-crossing. M. A. Wooldridge. No. 1,354,935; Oct. 5; v. 279; p. 97.
Railway-gate, Train-operated. M. Strelchik. No. 1,349,986; Aug. 17; v. 277; p. 486.
Railway guard device. S. Clary. No. 1,353,728; Sept. 21; v. 278; p. 489.
Railway-guns for transferring ammunition from an ammunition-wagon, Apparatus applicable to. O. Frieling. No. 1,363,862; Dec. 28; v. 281; p. 705.
Railway-joint. H. Chomyn. No. 1,350,783; Aug. 24; v. 277; p. 688.
Railway-joint. M. S. Murar and L. F. Hamrock. No. 1,336,915; Apr. 13; v. 273; p. 290.
Railway-joint. C. J. Starks. No. 1,331,396; Feb. 17; v. 271; p. 483.
Railway-joint. W. Young. No. 1,350,129; Aug. 17; v. 277; p. 514.
Railway-link. L. W. Eisinger. No. 1,327,535; Jan. 6; v. 270; p. 122.
Railway mail-delivery. H. E. Smith. No. 1,348,380; Aug. 3; v. 277; p. 49.
Railway mail-delivery. H. E. Smith. No. 1,348,381; Aug. 3; v. 277; p. 50.
Railway mail delivery. H. E. Smith. No. 1,363,366; Dec. 28; v. 281; p. 609.
Railway, Pleasure-. M. Johnson. No. 1,351,658; Aug. 31; v. 277; p. 922.
Railway, Pleasure-. F. A. Smith. No. 1,356,412; Oct. 19; v. 279; p. 479.
Railway, Portable. F. S. Reisenberg. No. 1,362,141; Dec. 14; v. 281; p. 279.
Railway-rail. S. D. Henderson. No. 1,357,635; Nov. 2; v. 280; p. 82.
Railway-rail. R. A. McClure and W. W. Boulton. No. 1,329,305; Jan. 27; v. 270; p. 582.
Railway-rail. E. V. Sourbier and M. Madden. No. 1,328,405; Jan. 20; v. 270; p. 384.
Railway-rail. C. A. Witter. No. 1,348,678; Aug. 3; v. 277; p. 106.
Railway-rail brace. H. C. Bunnell. No. 1,354,239; Sept. 28; v. 278; p. 637.
Railway rail coupling. L. C. Deaver. No. 1,349,607; Aug. 17; v. 277; p. 413.
Railway-rail coupling. R. A. McClure and W. W. Boulton. No. 1,329,306; Jan. 27; v. 270; p. 582.
Railway-rail fastener. E. A. Kehn. No. 1,346,965; July 20; v. 276; p. 444.
Railway-rail fastening. S. A. Swanson. No. 1,337,851; Apr. 20; v. 273; p. 541.
Railway-rail-securing device. E. J. Davis. No. 1,329,163; Jan 27; v. 270; p. 556.
Railway-rail, Single. R. A. McClure and W. W. Boulton. No. 1,329,304; Jan. 27; v. 270; p. 581.
Railway-rail-spike holder. G. C. Wortman. No. 1,333,235; Mar. 9; v. 272; p. 253.
Railway rail, Street-. J. W. McManama. No. 1,343,001; June 8; v. 275; p. 326.
Railway-rail support, Renitent. A. R. Fugina. No. 1,329,077; Jan. 27; v. 270; p. 540.
Railway-rail tie and fastener. R. E. Caudle. No. 1,361,443; Dec. 7; v. 281; p. 94.
Railway-rails, Anticreep device or anchor for. H. Yates. No. 1,353,206; Sept. 21; v. 278; p. 387.
Railway-rails, Connecting means for. J. C. David. No. 1,344,336; June 22; v. 275; p. 715.
Railway-rails, Joint and chair for. G. E. Rightnour. No. 1,346,384; July 13; v. 276; p. 270.
Railway rolling-stock, Buffer for. D. C. Davis. No. 1,339,743; May 11; v. 274; p. 280.
Railway rolling-stock, Truck and brake for. F. S. Porter. No. 1,346,765; July 13; v. 276; p. 346.
Railway safety appliance. W. B. Foreman. No. 1,355,599; Oct. 12; v. 279; p. 279.
Railway safety appliance. M. Ihnat. No. 1,349,834; Aug. 17; v. 277; p. 457.
Railway safety control, Automatic. L. F. Hellmann and W. W. Baxter. No. 1,340,861; May 18; v. 274; p. 548.
Railway safety device. G. Petro. No. 1,358,242; Nov. 9; v. 280; p. 261.
Railway safety device. W. A. and C. N. Rockwell. No. 1,339,136; May 4; v. 274; p. 91.
Railway safety device. N. J. Sauls. No. 1,348,056; July 27; v. 276; p. 718.
Railway safety device. A. H. Simms. No. 1,336,986; Apr. 13; v. 273; p. 303.
Railway safety device. A. H. Simms. No. 1,349,984; Aug. 17; v. 277; p. 486.
Railway side frame. C. J. W. Clason. No. 1,351,326; Aug. 31; v. 277; p. 856.
Railway-signal. B. E. Andress. No. 1,341,772; June 1; v. 275; p. 32.
Railway-signal. N. J. Bourge. No. 1,348,080; July 27; v. 276; p. 722.
Railway-signal. F. J. Evans. No. 1,352,801; Sept. 14; v. 278; p. 248.
Railway-signal. W. H. Harrell. No. 1,363,869; Dec. 28; v. 281; p. 707.
Railway-signal. S. E. Humphrys. No. 1,331,434; Feb. 17; v. 271; p. 490.
Railway-signal. O. Jackson. No. 1,338,632; Apr. 27; v. 273; p. 758.
Railway-signal. R. S. La Mere. No. 1,349,773; Aug. 17; v. 277; p. 446.
Railway-signal. L. V. Lewis. No. 1,328,960; Jan. 27; v. 270; p. 518.
Railway-signal. W. I. Smith. No. 1,337,283; Apr. 20; v. 273; p. 434.
Railway-signal-actuating mechanism, Automatic. S. F. Bashara. No. 1,346,934; July 20; v. 276; p. 438.
Railway signal apparatus, Foundation and housing for. J. S. Hobson. No. 1,342,962; June 8; v. 275; p. 317.
Railway signal-flag. W. A. Johnson. No. 1,362,704; Dec. 21; v. 281; p. 440.
Railway signal system. C. E. Chatfield. No. 1,361,016; Dec. 7; v. 281; p. 7.
Railway-signal system. H. Margotta. No. 1,337,935; Apr. 20; v. 273; p. 558.
Railway signal system. M. W. Reedy. No. 1,335,919; Apr. 6; v. 273; p. 41.
Railway-signals, Recording apparatus for. L. S. Brach. No. 1,350,355; Aug. 24; v. 277; p. 604.
Railway signaling. F. T. Fereday. No. 1,348,101; July 27; v. 276; p. 726.
Railway signaling. H. S. Loomis. No. 1,331,514; Feb. 24; v. 271; p. 526.
Railway signaling. R. A. McCann. No. 1,335,381; Mar. 30; v. 272; p. 824.
Railway signaling. R. A. McCann. No. 1,344,917; June 29; v. 275; p. 894.
Railway signaling. J. V. Young. No. 1,328,070; Jan. 13; v. 270; p. 284.
Railway signaling and frequency selective device for use in connection therewith. J. S. Holliday. No. 1,362,624; Dec. 21; v. 281; p. 424.
Railway signaling device. F. L. Dodgson. No. 1,352,793; Sept. 14; v. 278; p. 246.
Railway signaling device. E. H. Medén. No. 1,348,508; Aug. 3; v. 277; p. 73.
Railway signaling system. L. W. Chubb. No. 1,333,606; Mar. 16; v. 272; p. 383.
Railway signaling system. J. B. Harlow. No. 1,345,176; June 29; v. 275; p. 943.
Railway signaling system. R. C. Leake. No. 1,330,125; Feb. 10; v. 271; p. 178.
Railway signaling system. H. A. Wallace. No. 1,344,070; June 22; v. 275; p. 664.

Digitized by Google

Alphabetical list of inventions—Continued.

Railway-spike. E. J. Frisk. No. 1,354,737; Oct. 5; v. 279; p. 57.
Railway-spike. J. Lundie. No. 1,333,859; Mar. 16; v. 272; p. 430.
Railway-spike. N. Nix. No. 1,356,781; Oct. 26; v. 279; p. 588.
Railway-spike. H. G. Norwood. No. 1,332,059; Feb. 24; v. 271; p. 629.
Railway-spike. G. F. A. Ochs. No. 1,353,843; Sept. 28; v. 278; p. 556.
Railway-spike. F. R. Pipkin. No. 1,338,154; Apr. 27; v. 273; p. 668.
Railway-spike. A. G. Schoenfeld. No. 1,330,906; Feb. 17; v. 271; p. 392.
Railway spiking-machine. H. C. Forsyth. No. 1,347,943; July 27; v. 276; p. 694.
Railway-stringer mold. D. W. Bowe. No. 1,329,362; Feb. 3; v. 271; p. 5.
Railway structure. E. Furrow. No. 1,346,312; July 13; v. 276; p. 257.
Railway-switch. P. Gadeski. No. 1,358,196; Nov. 9; v. 280; p. 252.
Railway-switch. H. Gagné. No. 1,364,046; Dec. 28; v. 281; p. 740.
Railway-switch. L. Harvey. No. 1,341,554; May 25; v. 274; p. 754.
Railway-switch. O. Jordan. No. 1,332,297; Mar. 2; v. 272; p. 28.
Railway-switch. F. M. Kirkpatrick. No. 1,331,868; Feb. 24; v. 271; p. 594.
Railway-switch. J. Kukell. No. 1,333,622; Mar. 16; v. 272; p. 386.
Railway-switch. D. L. Landers. No. 1,328,008; Jan. 13; v. 270; p. 271.
Railway-switch. L. Marszalek. No. 1,350,373; Aug. 24; v. 277; p. 607.
Railway-switch. D. Quintal. No. 1,355,262; Oct. 12; v. 279; p. 214.
Railway-switch. E. P. Scholes. No. 1,343,483; June 15; v. 275; p. 482.
Railway-switch. S. E. Shoup. No. 1,330,914; Feb. 17; v. 271; p. 394.
Railway-switch. J. H. Skogman. No. 1,358,887; Nov. 16; v. 280; p. 436.
Railway-switch. J. Toryowski. No. 1,340,992; May 25; v. 274; p. 645.
Railway-switch. J. Wilczynski. No. 1,336,114; Apr. 6; v. 273; p. 78.
Railway switch and signal, Automatic. I. L. Edwards. No. 1,351,946; Sept. 7; v. 278; p. 47.
Railway-switch apparatus. C. A. Alden. No. 1,341,161; May 25; v. 274; p. 677.
Railway-switch handles, Self-locking attachment for. C. Forth. No. 1,353,825; Sept. 28; v. 278; p. 552.
Railway-switch heater. W. T. Lawlor. No. 1,327,483; Jan. 6; v. 270; p. 112.
Railway-switch lock. E. A. Stewart. No. 1,333,784; Mar. 16; v. 272; p. 417.
Railway-switch-operating mechanism. C. E. Tally. No. 1,350,949; Aug. 24; v. 277; p. 719.
Railway switch-point. W. M. Mitchell. No. 1,334,466; Mar. 23; v. 272; p. 591.
Railway-switch stand. C. M. Carr. No. 1,336,195; Apr. 6; v. 273; p. 93.
Railway switch, Suspension-. J. H. Smith. No. 1,359,542; Nov. 23; v. 280; p. 608.
Railway-switches, Apparatus for the control of. C. H. Lay. No. 1,359,512; Nov. 23; v. 280; p. 602.
Railway system. G. B. Samuelson and W. H. Glaser. No. 1,353,423; Sept. 21; v. 278; p. 429.
Railway-tie. F. Barniak. No. 1,345,572; July 6; v. 276; p. 48.
Railway-tie. W. Burch. No. 1,344,676; June 29; v. 275; p. 848.
Railway-tie. C. and I. C. W. Buss. No. 1,342,420; June 8; v. 275; p. 211.
Railway-tie. J. Chojnik. No. 1,358,288; Nov. 9; v. 280; p. 270.
Railway-tie. A. Y. Clark. No. 1,355,891; Oct. 19; v. 279; p. 376.
Railway-tie. A. Y. Clark. No 1,355,892; Oct. 19; v. 279; p. 376.
Railway-tie. J. R. Dooley. No. 1,343,813; June 15; v. 275; p. 549.
Railway-tie. G. L. Fisk. No. 1,358,536; Nov. 9; v. 280; p. 321.
Railway-tie. E. E. Fox No. 1,349,754; Aug. 17; v. 277; p. 442.
Railway-tie. M. Hawkes. No. 1,333,173; Mar. 9; v. 272; p. 241.
Railway-tie. J. and P. Henderson. No. 1,363,733; Dec. 28; v. 281; p. 680.
Railway-tie. C. Herminghuysen. No. 1,346,651; July 13; v. 276; p. 323.
Railway-tie. J. K. McGill. No. 1,350,416; Aug. 24; v. 277; p. 616.
Railway-tie. G. F. A. Ochs. No. 1,344,926; June 29; v. 275; p. 896.
Railway-tie. G. F. A. Ochs. No. 1,350,381; Aug. 24; v. 277; p. 609.
Railway-tie. J. T. Pelchat. No. 1,331,670; Feb. 24; v. 271; p. 556.
Railway-tie. E. A. Priest. No. 1,341,587; May 25; v. 274; p. 760.
Railway-tie. R. H. Spencer. No. 1,348,171; Aug. 10; v. 277; p. 254.
Railway-tie. E. H. Spiers. No. 1,355,707; Oct. 12; v. 279; p. 300.
Railway-tie. E. H. Spiers. No. 1,359,123; Nov. 16; v. 280; p. 480.
Railway-tie. A. R. Stephenson. No. 1,334,815; Mar. 23; v. 272; p. 657.
Railway-tie. M. Szapiak. No. 1,361,414; Dec. 7; v. 281; p. 87.
Railway-tie. W. Talbott. No. 1,354,858; Oct. 5; v. 279; p. 82.
Railway-tie. J. C. Thebault. No. 1,330,752; Feb. 10; v. 271; p. 294.
Railway-tie. W. Tomlinson. No. 1,345,287; June 29; v. 275; p. 905.
Railway-tie. O. Valeri. No. 1,362,453; Dec. 14; v. 281; p. 339.
Railway-tie. W. F. Walker. No. 1,356,417; Oct. 19; v. 279; p. 480.
Railway-tie. M. W. Wambaugh. No. 1,341,090; May 25; v. 274; p. 664.
Railway-tie. C. O. Whitcomb. No. 1,351,819; Sept. 7; v. 278; p. 21.
Railway-tie. W. T. Wilson. No. 1,347,427; July 20; v. 276; p. 535.
Railway tie and fastener. H. A. Clark. No. 1,361,750; Dec. 7; v. 281; p. 154.
Railway tie and fastener. E. W. Drummond. No. 1,346,305; July 13; v. 276; p. 255.
Railway-tie and fastener. C. J. Erb and W. J. Briant. No. 1,349,949; Aug. 17; v. 277; p. 479.
Railway-tie and rail-joint. A. Kushlan. No. 1,360,302; Nov. 30; v. 280; p. 826.
Railway-tie, Composite. W. H. Elliott. No. 1,331,809; Feb. 24; v. 271; p. 582.
Railway-tie, Composite. A. Revert. No. 1,346,609; July 13; v. 276; p. 315.
Railway-tie construction. F. Adamczyk. No. 1,354,366; Sept. 28; v. 278; p. 662.
Railway-tie, Metallic. J. A. Hyle. No. 1,335,241; Mar. 30; v. 272; p. 797.
Railway-tie, Metallic. W. C. Patterson. No. 1,329,205; Jan. 27; v. 270; p. 564.
Railway-tie, Metallic. L. A. Spear. No. 1,355,284; Oct. 12; v. 279; p. 219.
Railway-tie, Metallic. C. H. Swartwood. No. 1,339,301; May 4; v. 274; p. 119.
Railway-tie, Metallic. T. D. Thomas. No. 1,362,903; Dec. 21; v. 281; p. 479.
Railway-tie, Metallic. C. E. Wilder. No. 1,329,648; Feb. 3; v. 271; p. 57.
Railway tie, Mine-. F. C. Mayer. No. 1,359,413; Nov. 16; v. 280; p. 537.
Railway-tie plate. W. M. Osborn. No. 1,362,732; Dec. 21; v. 281; p. 446.
Railway tie-plate and rail fastening and anticreeper. E. M. McVicker. No. 1,328,533; Jan. 20; v. 270; p. 409.
Railway-tie plug. A. Heim. No. 1,338,444; Apr. 27; v. 273; p. 723.
Railway-tie. Reinforced-concrete. W. R. C. Cook. No. 1,362,561; Dec. 14; v. 281; p. 361.
Railway-tie-spacing device. A. C. Walker. No. 1,349,026; Aug. 10; v. 277; p. 225.
Railway-track. A. Luchetti. No. 1,348,286; Aug. 3; v. 277; p. 31.
Railway track and tie. J. B. Yarnell. No. 1,356,584; Oct. 26; v. 279; p. 559.
Railway-track appliance. A. A. Jardin. No. 1,344,134; June 22; v. 275; p. 676.
Railway-track construction. J. Malik. No. 1,353,771; Sept. 21; v. 278; p. 499.
Railway-track crossing. L. V. Thomas. No. 1,331,831; Feb. 24; v. 271; p. 586.
Railway-track crossing. B. G. Van Dyke, Jr. No. 1,354,080; Sept. 28; v. 278; p. 605.
Railway-track, Electric. B. O. Bartlett. No. 1,358,924; No. 16; v. 280; p. 443.
Railway-track equipment. A. C. Muir. No. 1,345,389; July 6; v. 276; p. 12.
Railway-track switch. I. G. Pospyhala. No. 1,352,988; Sept. 14; v. 278; p. 285.
Railway-tracks, Crossing-signal for. W. H. Bixby. No. 1,332,705; Mar. 2; v. 272; p. 101.
Railway-tracks, Machine for ballasting. D. J. Dobson. No. 1,338,681. May 4; v. 274; p. 6.
Railway-tracks, Understructure for supporting. E. F. L. Vagneux. No. 1,327,219; Jan. 6; v. 270; p. 64.
Railway-traffic-controlling apparatus. J. P. Coleman. No. 1,363,840; Dec. 28; v. 281; p. 701.
Railway-traffic-controlling apparatus. C. H. Lay. No. 1,356,553; Oct. 26; v. 279; p. 553.
Railway-traffic-controlling apparatus. L. V. Lewis. No. 1,341,753; June 1; v. 275; p. 28.
Railway-traffic-controlling apparatus. L. V. Lewis. No. 1,347,045; July 20; v. 276; p. 460.
Railway-traffic-controlling apparatus. L. V. Lewis. No. 1,353,250; Sept. 21; v. 278; p. 395.
Railway-traffic-controlling apparatus. F. H. Nicholson. No. 1,342,644; June 8; v. 275; p. 253.

Digitized by Google

Railway-traffic-controlling apparatus. F. H. Nicholson. No. 1,356,552; Oct. 26; v. 279; p. 553.
Railway-traffic-controlling apparatus. C. S. Snavely. No. 1,333,642; Mar. 16; v. 272; p. 390.
Railway-traffic-controlling system. L. V. Lewis. No. 1,351,771; Sept. 7; v. 278; p. 11.
Railway-traffic-controlling system. L. V. Lewis. No. 1,363,254; Dec. 28; v. 281; p. 588.
Railway-traffic-controlling system. R. A. McCann. No. 1,363,257; Dec. 28; v. 281; p. 588.
Railway-traffic-indicating apparatus. L. V. Lewis. No. 1,342,635; June 8; v. 275; p. 252.
Railway traffic, System for governing. W. K. Howe. No. 1,354,254; Sept. 28; v. 278; p. 640.
Railway-train brake. P. F. Dufour. No. 1,352,586; Sept. 14; v. 278; p. 204.
Railway-train-control mechanism. F. Chittenden and H. S. Folker. No. 1,334,520; Mar. 23; v. 272; p. 601.
Railway-trains, Switching-over device for electrical lighting installations for. H. Grob. No. 1,348,171; Aug. 3; v. 277; p. 8.
Railway-trains, System for automatically controlling. W. K. Howe. No. 1,360,750; Nov. 30; v. 280; p. 914.
Railway, Vacuum-. R. B. Davy. No. 1,336,732; Apr. 13; v. 273; p. 255.
Railway-vehicle automatic stop. J. Kiss. No. 1,331,157; Feb. 17; v. 271; p. 439.
Railway-vehicles, Automatic buffer-coupling for. J. King. No. 1,335,061; Mar. 30; v. 272; p. 764.
Railway-vehicles, Draft appliance for. W. and J. Kelso. No. 1,346,545; July 13; v. 276; p. 302.
Railway-vehicles, Speed-controlling apparatus for. L. V. Lewis. No. 1,334,385; Mar. 23; v. 272; p. 576.
Railway-vehicles, Suspension of liquid-containers on. K. von Kando. No. 1,343,241; June 15; v. 275; p. 436.
Railways, Automatic block-signaling system for. W. H. Workman. No. 1,360,345; Nov. 30; v. 280; p. 834.
Railways, Automatic control for steam and electric. J. E. Stiegelmeyer. No. 1,362,445; Dec. 14; v. 281; p. 338.
Railways, Catenary suspension system for electric. J. R. Brown and G. H. Bolus. No. 1,336,503; Apr. 13; v. 273; p. 210.
Railways, Electrical point-detector for. A. E. Hudd and G. H. Wion. No. 1,343,133; June 8; v. 275; p. 352.
Railways, Joint-support for light. H. L. Stillman. No. 1,341,446; May 25; v. 274; p. 733.
Railways, Operating trains on multitrack city-. G. G. Erdos. No. 1,345,152; June 29; v. 275; p. 938.
Railways, Pneumatic sleeper for. H. Lübeck. No. 1,358,764; Nov. 16; v. 280; p. 412.
Railways, Rail-bond for electric. E. A. Hoffman and T. P. Him. No. 1,353,237; Sept. 21; v. 278; p. 392.
Rain-alarm. C. C. Duvall. No. 1,329,382; Feb. 3; v. 271; p. 7.
Raincoat. F. W. Howard. No. 1,358,852; Nov. 16; v. 280; p. 429.
Raincoat. P. O. Huntington. No. 1,335,505; Mar. 30; v. 272; p. 846.
Raising or lowering device. J. Gasser and A. H. Barber. No 1,353,737; Sept 21; v. 278; p. 492.
Raisins, Preparing and packing. T. B. Hunter. No. 1,341,057; May 25; v. 274; p. 658.
Raisins, Purifying. B. T. Brooks. No. 1,340,873; May 25; v. 274; p. 622.
Rake: *See*—
Coke-rake. Self-cleaning rake.
Dandelion-rake. Sulky-rake.
Hay-rake. Sweep-rake.
Push-rake. Wheeled rake.
Rake. A. I. Conrad. No. 1,339,436; May 11; v. 274; p. 221.
Rake. A. Hinkle. No. 1,343,366; June 15; v. 275; p. 460.
Rake. L. J. Walker. No. 1,362,065; Dec. 14; v. 281; p. 264.
Rake and hoe, Combined. J. Zip. No. 1,329,102; Jan. 27; v. 270; p. 544.
Rake and tedder, Combined side-delivery. H. B. Holtvoigt. No. 1,334,953; Mar. 30; v. 272; p. 743.
Rake and tedder, Side-delivery. E. Mowry. No. 1,329,468; Feb. 3; v. 271; p. 24.
Rake attachment. O. Rundberg. No. 1,352,386; Sept. 7; v. 278; p. 128.
Rake-cleaning attachment. D. Stoodt. No. 1,360,818; Nov. 30; v. 280; p. 926.
Rakes, Automatic hay-ejector for sweep-. V. C. Palmer. No. 1,341,819; June 1; v. 275; p. 41.
Raking device. H. R. Traphagen. No. 1,358,491; Nov. 9; v. 280; p. 310.
Rammer. D. C. Mulvihill. No. 1,330,086; Feb. 10; v. 271; p. 170.
Range. R. L. Poe. No. 1,344,061; June 22; v. 275; p. 662.
Range. H. D. Schall. No. 1,338,870; May 4; v. 274; p. 41.
Range. H. D. Schall. No. 1,339,478; May 11; v. 274; p. 230.
Range. H. D. Schall. No. 1,340,986; May 25; v. 274; p. 644.
Range, Coal and gas. E. P. Cole. No. 1,344,755; June 29; v. 275; p. 863.
Range, Combination coal and gas. T. E. Taylor. No. 1,347,601; July 27; v. 276; p. 626.
Range, Combination gas-. R. Lawa. No. 1,340,615; May 18; v. 274; p. 502.
Range, Combined coal and gas. G. F. Bibb. No. 1,348,078; July 27; v. 276; p. 722.
Range, Combined gas and coal. C. R. Graham. No. 1,350,723; Aug. 24; v. 277; p. 676.
Range, Combined solid and gaseous fuel. H. H. Sanford. No. 1,338,701; May 4; v. 274; p. 10.
Range, Convertible combination coal and gas. E. C. Beers. No. 1,359,864; Nov. 23; v. 280; p. 671.
Range-finder. E. W. Deming. No. 1,353,151; Sept. 21; v. 278; p. 376.
Range-finder. G. L. Fecker. No. 1,355,954; Oct. 19; v. 279; p. 388.
Range-finder. N. D. Parker and H. C. Lomb. No. 1,363,670; Dec. 28; v. 281; p. 667.
Range-finder. L. A. Weed. No. 1,359,133; Nov. 16; v. 280; p. 482.
Range-finder, Long-base single-observer. A. Barr and W. Stroud. No. 1,343,025; June 8; v. 275; p. 330.
Range-finder or telemeter. C. Hymans. No. 1,338,985; May 4; v. 274; p. 62.
Range-finding and like instrument. H. D. Taylor. No. 1,339,235; May 4; v. 274; p. 108.
Range finding and sighting instrument. P. Gerli and O. A. Ross. No. 1,339,450; May 11; v. 274; p. 224.
Range-finding apparatus. C. Schauff. No. 1,330,013; Feb. 3; v. 271; p. 125.
Range-finding method and apparatus. J. L. Routin. No. 1,345,706; July 6; v. 276; p. 74.
Range finding, plotting, predicting, and gun-adjusting device, Combined. L. A. Smith. No. 1,346,430; July 13; v. 276; p. 279.
Range-firepot. J. Jungers. No. 1,337,604; Apr. 20; v. 273; p. 494.
Range keeping and transmitting instruments. A. Taylor and P. W. Gray. No. 1,357,659; Nov. 2; v. 280; p. 86.
Range-meter. I. Stein. No. 1,356,838; Oct. 26; v. 279; p. 609.
Range or cooking-stove, Combination solid-fuel and gas. G. W. Howes. No. 1,355,338; Oct. 12; v. 279; p. 229.
Range or stove, Cooking. G. E. Heidbreder. No. 1,330,187; Feb. 10; v. 271; p. 189.
Ranges, Convertible gas-flue for combination gas and coal. E. C. Beers. No. 1,337,112; Apr. 13; v. 273; p. 327.
Ranges, Kerosene-burner for. J. W. Starr. No. 1,336,103; Apr. 6; v. 273; p. 76.
Ranges, Smoke and fume arrester for gas-. G. H. Backmire. No. 1,360,073; Nov. 23; v. 280; p. 713.
Rasping-wheel. C. L. Smith and E. S. Webster. No. 1,347,299; July 20; v. 276; p. 510.
Rat and mouse trap. J. Pokorny. No. 1,333,875; Mar. 16; v. 272; p. 434.
Rat-trap. R. Chasse. No. 1,330,683; Feb. 10; v. 271; p. 281.
Rat-trap. B. Parker and W. F. Williams. No. 1,345,227; June 29; v. 271; p. 952.
Rat-trap. J. W. Richards. No. 1,339,135; May 4; v. 274; p. 91.
Rat-shield. A. G. Girard. No. 1,363,406; Dec. 28; v. 281; p. 616.
Ratchet and clutch mechanism. I. Church. No. 1,352,354; Sept. 7; v. 278; p. 123.
Ratchet, Automatic. C. R. Pieper. No. 1,328,448; Jan. 20; v. 270; p. 892.
Ratchet bit-brace. J. E. Meed. No. 1,356,776; Oct. 26; v. 279; p. 597.
Ratchet-brace. E. Asche. No. 1,328,111; Jan. 13; v. 270; p. 292.
Ratchet device. P. Pasquariello. No. 1,356,007; Oct. 19; v. 279; p. 398.
Ratchet-jack. J. C. Kopf. No. 1,339,377; May 4; v. 274; p. 134.
Ratchet mechanism. C. W. Ripsch and J. C. Dawley. No. 1,352,631; Sept. 14; v. 278; p. 213.
Ratchet, Rotating. P. S. Morgan. No. 1,334,468; Mar. 23; v. 272; p. 591.
Ratchet socket-wrench. C. C. Le Chot. No. 1,328,067; Jan. 13; v. 270; p. 287.
Ratchet-wrench. W. A. Butler. No. 1,359,325; Nov. 15; v. 280; p. 519.
Ratchet-wrench. T. Severén. No. 1,352,764; Sept. 14; v. 278; p. 240.
Ratchet-wrench. G. A. Smith. No. 1,338,257; Apr. 27; v. 273; p. 688.
Ratchet - wrench, Adjustable. J. T. Bennett. No. 1,334,432; Mar. 23; v. 272; p. 585.
Ratchet-wrench, Adjustable-socket. O. C. B. Clark. No. 1,327,702; Jan. 13; v. 270; p. 215.
Ratchet-wrench, One-piece. W. Kaylor. No. 1,341,178; May 25; v. 274; p. 681.
Ratio-meter. W. J. Crowell, Jr. No. 1,336,512; Apr. 13; v. 273; p. 212.
Rawhide, Treating. J. T. Mahon. No. 1,359,087; Nov. 16; v. 280; p. 473.
Razor. W. H. Brasier. No. 1,343,900; June 22; v. 275; p. 630.
Razor. J. L. Crawford. No. 1,338,908; May 4; v. 274; p. 48.

Digitized by Google

Razor. L. H. La Chance and G. Browning. No. 1,361,266; Dec. 7; v. 281; p. 56.
Razor. A. McAnulty. No. 1,360,423; Nov. 30; v. 280; p. 849.
Razor. W. A. Stebbins. No. 1,347,234; July 20; v. 276; p. 496.
Razor and blade-holder, Safety-. W. M. Evans. No. 1,350,960; Aug. 24; v. 277; p. 721.
Razor and safety-razor blade, Safety-. M. H. Johanson. No. 1,356,627; Oct. 26; v. 279; p. 567.
Razor-blade guard, Adjustable. H. S. Hasselquist. No. 1,334,534; Mar. 23; v. 272; p. 604.
Razor-blade handle. G. S. Clason. No. 1,360,888; Nov. 30; v. 280; p. 941.
Razor-blade holder. R. R. Bailey. No. 1,345,787; July 6; v. 276; p. 80.
Razor-blade holder. A. F. Barro. No. 1,351,987; Sept. 7; v. 278; p. 54.
Razor-blade holder. J. H. Cowan. No. 1,331,243; Feb. 17; v. 271; p. 455.
Razor-blade holder. C. W. Jones. No. 1,339,397; May 11; v. 274; p. 214.
Razor-blade holder, Safety-. F. McEown. No. 1,352,011; Sept. 7; v. 278; p. 59.
Razor-blade protector, Safety-. W. A. Sprinkell. No. 1,335,863; Apr. 6; v. 273; p. 30.
Razor-blade-stropping handle, Safety-. A. Kauneckas. No. 1,355,762; Oct. 12; v. 279; p. 310.
Razor, Electric safety-. H. Sengebusch. No. 1,343,012; June 8; v. 275; p. 328.
Razor-guard. W. A. Snyder. No. 1,346,855; July 20; v 276; p. 422.
Razor hone and strop. R. E. Brown. No. 1,332,101; Feb. 24; v. 271; p. 637.
Razor, Mechanical. J. W. Halterman. No. 1,332,553; Mar. 2; v. 272; p. 78.
Razor or other strops, Composition. B. E. Wise. No. 1,353,979; Sept. 28; v. 278; p. 583.
Razor or other strops, Composition for. B. E. Wise. No. 1,360,343; Nov. 30; v. 280; p. 884.
Razor parts, Package of. B. Ames. No. 1,330,297; Feb. 10; v. 271; p. 209.
Razor, Power-operated. W. A. Fusch. No. 1,350,717; Aug. 24; v. 277; p. 675.
Razor, Rotary. S. P. Jones. No. 1,350,227; Aug. 17; v. 277; p. 533.
Razor, Rotary safety-. C. B. Collins. No. 1,351,507; Aug. 31; v. 277; p. 892.
Razor, Rotary safety-. A. C. Hanson. No 1,353,160; Sept. 21; v. 278; p. 377.
Razor, Safety-. L. H. Allan. No. 1,351,826; Sept. 7; v. 278; p. 22.
Razor, Safety-. W. A. Barry. No. 1,351,712; Aug. 31; v. 277; p. 932.
Razor, Safety-. W. A. Barry. No. 1,351,713; Aug. 31; v. 277; p. 932.
Razor, Safety-. R. E. Brown. No. 1,337,435; Apr. 20; v. 273; p. 462.
Razor, Safety-. G. Browning. No. 1,346,294; July 13; v. 276; p. 253.
Razor, Safety-. A. H. Bryant. No. 1,342,370; June 1; v. 275; p. 147.
Razor, Safety-. A. W. and S. Butterfield and A. Nield. No. 1,331,483; Feb. 24; v. 271; p. 520.
Razor, Safety-. E. D. Chadwick. No. 1,357,221; Nov. 2; v. 280; p. 4.
Razor, Safety-. E. D. Chadwick. No. 1,357,222; Nov. 2; v. 280; p. 5.
Razor, Safety-. C. S. Farriss. No. 1,354,178; Sept. 28; v. 278; p. 624.
Razor, Safety-. H. T. Gill and H. Lucas. No. 1,333,306; Mar. 9; v. 272; p. 266.
Razor, Safety-. J. D. Goodwin. No. 1,327,547; Jan. 6; v. 270; p. 125.
Razor, Safety-. W. F. Haggarty. No. 1,357,863; Nov. 2; v. 280; p. 127.
Razor, Safety-. C. F. Hammon. No. 1,344,447; June 22; v. 275; p. 738.
Razor, Safety-. T. M. Kane. No. 1,354,658; Oct. 5; v. 279; p. 43.
Razor, Safety-. B. La Rock. No. 1,336,969; Apr. 13; v. 273; p. 300.
Razor, Safety-. S. G. Malby. No. 1,353,603; Sept. 21; v. 278; p. 465.
Razor, Safety-. L. S. Nordskog. No. 1,342,028; June 1; v. 275; p. 81.
Razor, Safety-. E. P. Norton. No. 1,349,291; Aug. 10; v. 277; p. 278.
Razor, Safety-. M. Parker. No. 1,330,030; Feb. 3; v. 271; p. 128.
Razor, Safety-. R. H. Parker. No. 1,350,034; Aug. 17; v. 277; p. 495.
Razor, Safety-. R. H. Parker. No. 1,353,609; Sept. 21; v. 278; p. 466.
Razor, Safety-. A. C. Roebuck. No. 1,336,923; Apr. 13; v. 273; p. 292.
Razor, Safety-. H. Schlesinger. No. 1,358,115; Nov. 9; v. 280; p. 237.
Razor, Safety-. T. C. Sheehan. No. 1,363,362; Dec. 28; v. 281; p. 608.
Razor, Safety-. J. K. Toles. No. 1,337,166; Apr. 13; v. 273; p. 337.
Razor, Safety-. P. H. Unsinger. No. 1,356,240; Oct. 19; v. 279; p. 446.
Razor, Safety-. A. Valente and M. and S. Curson. No. 1,345,039; June 29; v. 275; p. 916.
Razor, Safety-. I. N. Weber. No. 1,358,485; Nov. 9; v. 280; p. 311.
Razor, Safety-. E. R. Wharton. No. 1,328,024; Jan. 13; v. 270; p. 275.
Razor-strap, Rotary. W. J. Cooke. No. 1,357,956; Nov. 9; v. 280; p. 205.
Razor-strop. G. D. Coleman. No. 1,355,813; Oct. 19; v. 279; p. 361.
Razor-strop and cabinet, Endless. C. A. Shoup. No. 1,344,522; June 22; v. 275; p. 753.
Razor-strop protector. M. C. and J. R. Scott. No. 1,335,611; Mar. 30; v. 272; p. 866.
Razor-strops, Composition for application to. W. G. Cooper. No. 1,344,865; June 29; v. 275; p. 884.
Razor-stropper. S. Dyktor. No. 1,334,234; Dec. 16; v. 272; p. 501.
Razor-stropping device. E. Juelson. No. 1,346,212; July 13; v. 276; p. 236.
Razor-wiper. E. Burch. No. 1,334,886; Mar. 23; v. 272; p. 671.
Razors, Attachment for safety-. G. Bakutis. No. 1,355,526; Oct. 12; v. 279; p. 265.
Razors, Honing device or holder for safety-. W. Summerbell. No. 1,327,498; Jan. 6; v. 270; p. 115.
Razors, Rotary cutting device for. S. P. Jones. No. 1,338,305; Apr. 27; v. 273; p. 697.
Razors, Water-carrying attachment for. J. F. Kaylor. No. 1,335,840; Apr. 6; v. 273; p. 25.
Reactance-coil. J. F. Peters. No. 1,344,713; June 29; v. 275; p. 855.
Reactor, Variable-reactance. F. H. Kierstead. No. 1,362,492; Dec. 14; v. 281; p. 347.
Reading-light. C. S. Burton. No. 1,333,830; Mar. 16; v. 272; p. 425.
Reading solution-indicator, Direct-. A. H. Gill. No. 1,359,455; Nov. 16; v. 280; p. 546.
Reading-table. H. M. Hewitt. No. 1,332,835; Mar. 2; v. 272; p. 126.
Reamer. A. Everson. No. 1,360,908; Nov. 30; v. 280; p. 944.
Reamer. T. A. Gyllsdorff. No. 1,334,898; Mar. 23; v. 272; p. 673.
Reamer. F. W. Hack. No. 1,347,740; July 27; v. 276; p. 654.
Reamer. J. Kemna. No. 1,362,325; Dec. 14; v. 281; p. 315.
Reamer. E. P. Schonk. No. 1,328,208; Jan. 13; v. 270; p. 310.
Reamer. C. P. Wetmore. No. 1,361,209; Dec. 7; v. 281; p. 45.
Reamer, Adjustable. D. W. Carr. No. 1,359,963; Nov. 23; v. 280; p. 691.
Reamer, Adjustable. W. B. Johnson. No. 1,345,929; July 6; v. 276; p. 119.
Reamer, Adjustable. E. E. Larson. No. 1,344,411; June 22; v. 275; p. 730.
Reamer, Expansion-. S. H. Humphrey and F. H. Korff. No. 1,349,968; Aug. 17; v. 277; p. 483.
Reamer-frame. R. S. MacEwan. No. 1,339,118; May 4; v. 274; p. 88.
Reamer-head. C. G. Cashman. No. 1,332,802; Mar. 2; v. 272; p. 120.
Reamer, Reversible-taper roughing-. M. C. Hutchinson. No. 1,348,115; July 27; v. 276; p. 729.
Reamers, Device for expanding. H. H. La Vercombe. No. 1,353,535; Sept. 21; v. 278; p. 451.
Reamers, Making. O. Otterson. No. 1,341,436; May 25; v. 274; p. 731.
Rear-axle housing, Reinforced. W. H. Klocke. No. 1,363,882; Dec. 28; v. 281; p. 709.
Rear-axle stand, Motor-vehicle. T. H. Jacob. No. 1,361,262; Dec. 7; v. 281; p. 56.
Rebound-controller. H. G. Craig. No. 1,338,556; Apr. 27; v. 273; p. 744.
Receiver. H. C. Harrison. No. 1,352,597; Sept. 14; v. 278; p. 206.
Receiver-holder, Adjustable. A. and E. Weiss. No. 1,329,942; Feb. 3; v. 271; p. 112.
Receptacle. S. G. Barnstead. No. 1,348,134; July 27; v. 276; p. 732.
Receptacle. R. B. Benjamin. No. 1,328,224; Jan. 13; v. 270; p. 313.
Receptacle. G. W. Bonte. No. 1,330,780; Feb. 17; v. 271; p. 368.
Receptacle. J. Boscacci. No. 1,332,099; Feb. 24; v. 271; p. 637.
Receptacle. J. C. Hollands. No. 1,333,917; Mar. 16; v. 272; p. 441.
Receptacle. J. E. La Cerf. No. 1,339,899; May 11; v. 274; p. 310.
Receptacle. E. O. Loeber. No. 1,358,380; Nov. 9; v. 280; p. 290.
Receptacle. R. S. Reynolds. No. 1,358,875; Nov. 16; v. 280; p. 434.
Receptacle. T. C. Spelling. No. 1,350,118; Aug. 17; v. 277; p. 511.
Receptacle. A. J. Ward. No. 1,345,568; July 6; v. 276; p. 48

Digitized by Google

Receptacle. L. R. Zifferer. No. 1,352,495; Sept. 14; v. 278; p. 186.
Receptacle, Automatically-closing. C. H. Kors. No. 1,350,816; Aug. 24; v. 277; p. 694.
Receptacle-cleaner. C. F. Capell. No. 1,360,265; Nov. 30; v. 280; p. 819.
Receptacle-closure. D. Baughman. No. 1,356,754; Oct. 26; v. 279; p. 592.
Receptacle-closure. D. Bloom. No. 1,353,017; Sept. 14; v. 278; p. 290.
Receptacle-closure. C. E. Doyle. No. 1,347,446; July 20; v. 276; p. 539.
Receptacle-closure. W. W. Sloane. No. 1,346,853; July 20; v. 276; p. 421.
Receptacle-closure, Band. C. Hammer. No. 1,335,238; Mar. 30; v. 272; p. 796.
Receptacle-closure device. D. C. Jacobus. No. 1,357,708; Nov. 2; v. 280; p. 96.
Receptacle-closures, Cementitious material for. F. Roberts and J. M. Griffin. No. 1,343,282; June 15; v. 275; p. 444.
Receptacle, Combination-. J. Sokač and A. Semko. No. 1,346,431; July 13; v. 276; p. 279.
Receptacle-cover. A. Swenson. No. 1,347,419; July 20; v. 276; p. 534.
Receptacle-covers, Attachment means for. T. Hill. No. 1,334,243; Mar. 16; v. 272; p. 502.
Receptacle filling and measuring machine. E. J. Falkiner No. 1,338,429; Apr. 27; v. 273; p. 720.
Receptacle-filling machine. D. A. Urie. No. 1,343,696; June 15; v. 275; p. 525.
Receptacle, Foldable. G. S. Ramsburg. No. 1,335,701; Mar. 30; v. 272; p. 884.
Receptacle for carrying goods, Collapsible. J. S. Stubbs. No. 1,335,137; Mar. 30; v. 272; p. 779.
Receptacle, Hinged. G. F. Kluth. No. 1,355,150; Oct. 12; v. 279; p. 191.
Receptacle lock. Delivery-. A. McNaughton. No. 1,354,500; Oct. 5; v. 279; p. 10.
Receptacle, Metallic. H. R. Gogay. No. 1,341,638; June 1; v. 275; p. 5.
Receptacle or bag. E. D. Anderson. No. 1,334,066; Mar. 16; v. 272; p. 470.
Receptacle or pocket and method of making same. V. H. Jennings. No. 1,338,776; May 4; v. 274; p. 24.
Receptacle, Permutation-locked. F. W. Barnes and E. C. Allen. No. 1,358,672; Nov. 9; v. 280; p. 348.
Receptacle, Safety-. M. O. Canner. No. 1,346,174; July 13; v. 276; p. 229.
Receptacle-stopper. R. G. Allen. No. 1,337,182; Apr. 20; v. 273; p. 415.
Receptacle-support. A. C. Axberg. No. 1,339,491; May 11; v. 274; p. 232.
Receptacles, Corner-stay for. H. J. Longenecker. No. 1,355,486; Oct. 12; v. 279; p. 258.
Receptacles, Device for periodic emptying of. O. Frankman. No. 1,351,636; Aug. 31; v. 277; p. 918.
Receptacles, Hermetic closure for. C. N. Robinson. No. 1,346,257; July 13; v. 276; p. 245.
Receptacles, Machine for making hollow. M. D. Baron. No. 1,358,610; Nov. 9; v. 280; p. 335.
Receptacles or cartons, Means for opening. C. Beckmann. No. 1,351,461; Aug. 31; v. 277; p. 883.
Receptacles, Sanitary. H. E. Ames. No. 1,344,531; June 22; v. 275; p. 754.
Reciprocating apparatus, Means for balancing. S. A. Moss. No. 1,330,602; Feb. 10; v. 271; p. 266.
Reciprocating engine. E. P. Palmer. No. 1,353,539; Sept. 21; v. 278; p. 452.
Reciprocating motor, Fluid-actuated. W. A. Smith. No. 1,354,348; Sept. 28; v. 278; p. 659.
Reciprocative actuating mechanism. R. D. Smith. No. 1,350,574; Aug. 24; v. 277; p. 648.
Reclaiming and conveying apparatus. F. L. Stuart. No. 1,348,599; Aug. 3; v. 277; p. 91.
Reconnoitering apparatus. J. B. Strauss. No. 1,349,635; Aug. 17; v. 277; p. 419.
Record-cleaner. C. C. Prinz. No. 1,343,156; June 8; v. 275; p. 356.
Record-cleaner. T. J. Slowey. No. 1,335,352; Mar. 30; v. 272; p. 818.
Record container, Phonographic-. H. Uffner. No. 1,329,030; Jan. 27; v. 270; p. 531.
Record-lifter. J. Menchen. No. 1,347,548; July 27; v. 276; p. 616.
Record-placer. L. N. Host. No. 1,349,611; Aug. 17; v. 277; p. 414.
Record-repeating device. W. H. Fink. No. 1,362,091; Dec. 14; v. 281; p. 269.
Record-sheet. W. P. Pitt. No. 1,330,216; Feb. 10; v. 271; p. 194.
Record-surfacing and production thereof. V. H. Emerson and A. N. Pierman. No. 1,328,371; Jan. 20; v. 270; p. 878.
Records, Holder for phonographic disk. O. Cullman. No. 1,327,949; Jan. 13; v. 270; p. 261.
Recorder: *See*—
Automobile-service recorder.
Coaster-recorder.
Fare-recorder.
Music-recorder.
Time-recorder.
Water stage and discharge recorder.
Recorder. F. M. Carroll. No. 1,358,284; Nov. 9; v. 280; p. 269.
Recorder. H. T. Goss. No. 1,348,217; Aug. 3; v. 277; p. 17.
Recording and vending machine. J. E. Lederman. No. 1,344,909; June 29; v. 275; p. 893.
Recording apparatus. J. J. Catron. No. 1,329,886; Feb. 3; v. 271; p. 101.
Recording apparatus. C. E. Goddard. No. 1,351,902; Sept. 7; v. 278; p. 38.
Recording apparatus. R. S. O'Neil. No. 1,345,626; July 6; v. 276; p. 58.
Recording device. H. C. Hayes and G. W. Lewis. No. 1,334,856; Mar. 23; v. 272; p. 665.
Recording device. G. H., G. A., and T. E. Froggatt. No. 1,338,647; Apr. 27; v. 273; p. 760.
Recording device. J. Klepac and J. Kvarda. No. 1,333,984; Mar. 16; v. 272; p. 454.
Recording device. W. D. Pearson. No. 1,363,913; Dec. 28; v. 281; p. 715.
Recording device. A. Silverman and R. H. Johnson. No. 1,351,071; Aug. 31; v. 277; p. 805.
Recording device. C. B. Thwing. No. 1,358,896; Nov. 16; v. 280; p. 438.
Recording device for use by storekeepers. C. Fuchs. No. 1,355,324; Oct. 12; v. 279; p. 226.
Recording instrument, Graphic. O. White and H. W. Young. No. 1,347,684; July 27; v. 276; p. 683.
Recording-lock. C. E. Larrabee. No. 1,357,715; Nov. 2; v. 280; p. 97.
Recording mechanism. A. A. Horton. No. 1,334,758; Mar. 23; v. 272; p. 646.
Recording mechanism. H. H. Mapelsden. No. 1,347,787; July 27; v. 276; p. 664.
Recording mechanism. S. J. Mason. No. 1,363,139; Dec. 21; v. 281; p. 525.
Recording mechanism. J. R. Peirce. (Reissue.) No. 14,915; July 13; v. 276; p. 355.
Recording mechanism, Automatic. H. Y. Norwood and F. W. Stalker. No. 1,350,174; Aug. 17; v. 277; p. 522.
Recording-meter. P. Lanham. No. 1,334,912; Mar. 23; v. 272; p. 676.
Recording or indicating the movements of a mass, Apparatus for. A. W. Clarke. No. 1,350,705; Aug. 24; v. 277; p. 673.
Recording plate-holder. A. G. Boxell. No. 1,330,235; Feb. 10; v. 271; p. 198.
Recording-register lock. W. L. Crouch. No. 1,360,622; Nov. 30; v. 280; p. 889.
Recording system and apparatus. R. M. Hopkins. No. 1,331,151; Feb. 17; v. 271; p. 488.
Rectal tube. J. K. Wilkins. No. 1,350,981; Aug. 24; v. 277; p. 725.
Rectifier. G. N. Blanchard. No. 1,357,142; Oct. 26; v. 279; p. 669.
Rectifier and condenser. H. E. Beyer and W. G. Hall. No. 1,352,648; Sept. 14; v. 278; p. 216.
Rectifier and means for improving the operation of the same, Mechanical. O. S. Jennings. No. 1,336,564; Apr. 13; v. 273; p. 222.
Rectifier system. H. E. Burket. No. 1,327,521; Jan. 6; v. 270; p. 120.
Rectifiers, Control system for. H. K. Sandell. No. 1,329,799; Feb. 3; v. 271; p. 84.
Recuperative furnace. W. S. Rockwell. No. 1,358,330; Nov. 9; v. 280; p. 279.
Recuperator. A. B. Chantraine. No. 1,341,970; June 1; v. 275; p. 70.
Recuperator. C. L. W. Trinks. No. 1,342,073; June 1; v. 275; p. 90.
Recuperator and block for building same. A. Nielsen. No. 1,329,471; Feb. 3; v. 271; p. 24.
Reducing and refining apparatus. A. L. Bausman. No. 1,337,583; Apr. 20; v. 273; p. 490.
Reducing apparatus. A. L. Bausman. No. 1,329,741; Feb. 3; v. 271; p. 74.
Reducing apparatus. A. L. Bausman. No. 1,329,742; Feb. 3; v. 271; p. 74.
Reducing-mill. E. B. Campbell. (Reissue.) No. 14,886; June 22; v. 275; p. 770.
Reducing-mill. E. B. Campbell. No. 1,361,679; Dec. 7; v. 281; p. 140.
Reduction-crusher. T. L. Smith and E. L. Sanborn. No. 1,355,922; Oct. 19; v. 279; p. 382.
Reduction-furnace. E. J. Bird. No. 1,333,957; Mar. 16; v. 272; p. 449.
Reed articles, Apparatus for producing woven-. M. B. Lloyd. No. 1,339,064; May 4; v. 274; p. 78.
Reed articles, Method and means for producing woven-. M. B. Lloyd. No. 1,339,063; May 4; v. 274; p. 77.
Reel: *See*—
Chalk-line reel.
Clothes-reel.
Clothes-drying reel.
Electric-light-cord reel.
Film-reel.
Fish-reel.
Fisherman's reel.
Fishing-reel.
Hose-reel.
Picture-film reel.
Rope-reel.
Telephone-reel.
Train-order reel.
Winding-reel.
Wire-reel.
Reel. W. B. Cook, Jr. No. 1,338,162; Mar. 9; v. 272; p. 239.

Digitized by Google

Alphabetical list of inventions—Continued.

Reel. L. M. Fulton. No. 1,353,901; Sept. 28; v. 278; p. 568.
Reel. J. B. Green. No. 1,361,250; Dec. 7; v. 281; p. 53.
Reel. W. F. Harbaugh. No. 1,347,697; July 27; v. 276; p. 645.
Reel. D. M. Stockdale. No. 1,350,946; Aug. 24; v. 277; p. 718.
Reel. C. E. Walker. No. 1,352,041; Sept. 7; v. 278; p. 64.
Reel attachment. J. F. Wilkens. No. 1,331,304; Feb. 17; v. 271; p. 466.
Reel, Chalk-line. L. T. Brenizer. No. 1,364,031; Dec. 28; v. 281; p. 737.
Reel construction and handling webs. W. I. Tuttle. No. 1,337,418; Apr. 20; v. 273; p. 459.
Reel-frames, Machine for making. J. Yennett and E. T. Lonkert. No. 1,341,964; June 1; v. 275; p. 69.
Reel-mount. C. W. Tillman. No. 1,339,238; May 4; v. 274; p. 109.
Reel or beam. F. Mossberg. No. 1,341,815; June 1; v. 275; p. 40.
Reel or beam. F. Mossberg. No. 1,341,816; June 1; v. 275; p. 40.
Reel or beam. F. Mossberg. No. 1,341,817; June 1; v. 275; p. 40.
Reel or spool. R. P. Almstead. No. 1,361,802; Dec. 14; v. 281; p. 211.
Reel-seat. W. L. Beaty. No. 1,350,635; Aug. 24; v. 277; p. 659.
Reel-swift brace. S. Kline. No. 1,356,374; Oct. 19; v. 279; p. 471.
Reel-threading device, Automatic. W. Wenderhold. No. 1,346,356; July 13; v. 276; p. 265.
Reeling and unreeling device. F. W. Elsinger and O. Schmidt. No. 1,334,361; Mar. 23; v. 272; p. 571.
Reeling apparatus. W. Wenderhold. No. 1,348,193; Aug. 3; v. 277; p. 12.
Reeling device. C. Reinhardt and A. Leibundgut. No. 1,340,981; May 25; v. 274; p. 643.
Reeling device. T. C. Smith. No. 1,332,927; Mar. 9; v. 272; p. 195.
Reeling-machine swift. W. C. Keyworth. No. 1,352,458; Sept. 14; v. 278; p. 178.
Reflecting device. A. Calvert. No. 1,349,558; Aug. 17; v. 277; p. 404.
Reflector. C. A. Campbell. No. 1,361,365; Dec. 7; v. 281; p. 77.
Reflector. B. Jones. No. 1,361,587; Dec. 7; v. 281; p. 123.
Reflector. W. Larkin. No. 1,333,551; Mar. 9; v. 272; p. 312.
Reflector. W. F. Minor, P. C. Keller, and T. W. Rolph. No. 1,345,796; July 6; v. 276; p. 92.
Reflector. P. A. Nirdlinger. No. 1,363,261; Dec. 28; v. 281; p. 589.
Reflector. J. C. Romaine. No. 1,330,009; Feb. 3; v. 271; p. 124.
Reflector and making same, Metal. F. E. Jones. No. 1,347,335; July 20; v. 276; p. 517.
Reflector, Foot-pressure. A. Smith, Jr. No. 1,334,810; Mar. 23; v. 272; p. 656.
Reflector-mounting. J. Kern. No. 1,358,159; Nov. 9; v. 280; p. 245.
Reflector, Parabolic sectional. C. E. Godley. No. 1,347,268; July 20; v. 276; p. 504.
Reflectors, mirrors, and other metal articles having deflecting-surfaces, Manufacture of metal. T. Hancock. No. 1,336,224; Apr. 6; v. 273; p. 98.
Refractory article. S. C. Linbarger. No. 1,356,211; Oct. 19; v. 279; p. 440.
Refractory article and making same. S. C. Linbarger. No. 1,345,377; July 6; v. 276; p. 10.
Refractory article and making same. O. Hutchins. No. 1,362,317; Dec. 14; v. 281; p. 314.
Refractory article and making same. F. J. Tone. No. 1,362,274; Dec. 14; v. 281; p. 305.
Refractory composition and making same. A. T. Hinckley. No. 1,346,959; July 20; v. 276; p. 443.
Refractory composition and making same, Basic. H. P. Bassett. No. 1,360,355; Nov. 30; v. 280; p. 836.
Refractory compounds, Producing. W. M. Handy. No. 1,330,263; Feb. 10; v. 271; p. 203.
Refractory furnace. W. J. Hill. No. 1,363,787; Dec. 28; v. 281; p. 690.
Refractory lining. W. G. Laird. No. 1,328,380; Jan. 20; v. 270; p. 379.
Refractory material. E. D. Frohman. No. 1,327,758; Jan. 13; v. 270; p. 226.
Refractory material. J. L. Ohman. No. 1,356,939; Oct. 26; v. 279; p. 629.
Refractory material and making it. O. Hutchins. No. 1,362,316; Dec. 14; v. 281; p. 314.
Refractory material and making same. T. Sheard and H. E. Wetherbee. No. 1,329,434; Feb. 3; v. 271; p. 17.
Refractory product and making same. C. W. Thomas. No. 1,344,461; June 22; v. 275; p. 741.
Refrigerating and heating system. W. M. Baxter. No. 1,342,403; June 1; v. 275; p. 154.
Refrigerating and hot-water storage apparatus, Combined. N. B. Wales. No. 1,331,600; Feb. 24; v. 271; p. 543.
Refrigerating and ice-making machines, Condenser-tank for. W. Young. No. 1,349,746; Aug. 17; v. 277; p. 441.
Refrigerating apparatus. A. P. Anderson. No. 1,340,646; May 18; v. 274; p. 508.
Refrigerating apparatus. E. J. Copeland. No. 1,329,348; Jan. 27; v. 270; p. 589.
Refrigerating apparatus. C. C. Hansen. No. 1,330,866; Feb. 17; v. 271; p. 384.
Refrigerating apparatus. C. C. Hansen. No. 1,330,867; Feb. 17; v. 271; p. 384.
Refrigerating apparatus. R. B. Henderson and R. E. James. No. 1,339,622; May 11; v. 274; p. 257.
Refrigerating apparatus. J. F. Hoffman. No. 1,350,550; Aug. 24; v. 277; p. 643.
Refrigerating apparatus. H. B. Joy. No. 1,342,964; June 8; v. 275; p. 318.
Refrigerating apparatus. D. H. Stokes. No. 1,362,757; Dec. 21; v. 281; p. 451.
Refrigerating apparatus. C. H. Worthen. No. 1,332,703; Mar. 2; v. 272; p. 101.
Refrigerating device. C. L. McCuen. No. 1,358,010; Nov. 9; v. 280; p. 216.
Refrigerating-machine. A. L. Gibbs. No. 1,345,001; June 29; v. 275; p. 909.
Refrigerating machine. H. E. Willsie. (Reissue.) No. 14,884; June 15; v. 275; p. 565.
Refrigerating-machines, Compressor for. P. Fischbacher. No. 1,360,910; Nov. 30; v. 280; p. 945.
Refrigerating-machines, Safety device for use in connection with. F. A. Willcox. No. 1,339,244; May 4; v. 274; p. 110.
Refrigerating machinery, Fitting for. F. J. Heideman. No. 1,334,753; Mar. 23; v. 272; p. 645.
Refrigerating plant, Traveling. H. R. Ross. No. 1,352,533; Sept. 14; v. 278; p. 193.
Refrigerating, Process of and apparatus for. F. W. Wolf. No. 1,337,175; Apr. 13; v. 273; p. 339.
Refrigerating systems, Expansion-coil for. C. M. Holley and F. W. Robison. No. 1,352,964; Sept. 14; v. 278; p. 280.
Refrigerating-tank. F. J. Heideman. No. 1,350,453; Aug. 24; v. 277; p. 624.
Refrigeration. W. R. Ormandy. No. 1,331,356; Feb. 17; v. 271; p. 476.
Refrigeration, Apparatus for. J. McCoy. No. 1,339,659; May 11; v. 274; p. 264.
Refrigeration plants, Agent for. A. Henning. No. 1,356,765; Oct. 26; v. 279; p. 595.
Refrigerator. B. H. Blocksom. No. 1,353,887; Sept. 28; v. 278; p. 565.
Refrigerator. R. H. Bremer. No. 1,357,889; Nov. 2; v. 280; p. 122.
Refrigerator. C. A. Creapo. No. 1,354,536; Oct. 5; v. 279; p. 18.
Refrigerator. F. J. Dahlke. No. 1,349,369; Aug. 10; v. 277; p. 294.
Refrigerator. J. E. Hawkins. No. 1,328,625; Jan. 20; v. 270; p. 425.
Refrigerator. F. L. Hewitt. No. 1,327,473; Jan. 6; v. 270; p. 110.
Refrigerator. H. H. Hillman. No. 1,329,340; Jan. 27; v. 270; p. 583.
Refrigerator. H. H. Hillman. No. 1,362,101; Dec. 14; v. 281; p. 271.
Refrigerator. C. A. Ketterer. No. 1,350,655; Aug. 24; v. 277; p. 663.
Refrigerator. H. M. Tarras. No. 1,337,625; Apr. 20; v. 273; p. 498.
Refrigerator and table, Combination. F. Cook. No. 1,357,097; Aug. 31; v. 277; p. 810.
Refrigerator-closure. G. C. Bohn. No. 1,329,453; Feb. 3; v. 270; p. 21.
Refrigerator-closure. J. W. Seifert. No. 1,340,084; May 11; v. 274; p. 344.
Refrigerator construction. H. J. Gwyer. No. 1,328,824; Jan. 20; v. 270; p. 369.
Refrigerator construction. L. F. Perkett and E. C. Madary. No. 1,358,781; Nov. 16; v. 280; p. 415.
Refrigerator construction and removable leg. H. J. Gwyer. No. 1,345,764; July 6; v. 276; p. 86.
Refrigerator, Iceless. G. J. Stanton. No. 1,348,823; Aug. 3; v. 277; p. 133.
Refrigerator-lining. H. Gelke. No. 1,339,328; May 4; v. 274; p. 125.
Refrigerator-machine. W. Young. No. 1,330,458; Feb. 10; v. 271; p. 239.
Refrigerator, Mortuary. V. A. De Canio. No. 1,329,510; Feb. 3; v. 271; p. 82.
Refrigerator, Mortuary. H. D. Sorg. No. 1,363,687; Dec. 28; v. 281; p. 671.
Refrigerator or like receptacle. D. E. Shongo. No. 1,343,688; June 15; v. 275; p. 523.
Refrigerator systems, Combined condenser and receiver for. H. W. Kleist. No. 1,359,460; Nov. 16; v. 280; p. 547.
Refrigerator-vehicle. R. D. Hatch. No. 1,341,744; June 1; v. 275; p. 26.
Refrigerators, Drip-catcher for. A. B. Bates. No. 1,349,314; Aug. 10; v. 277; p. 283.
Refrigerators, Drip-receptacle for. C. W. Fish. No. 1,362,686; Dec. 21; v. 281; p. 437.
Refrigerators, Means and method of regulating automatic mechanical. F. J. Heideman and J. N. Hadjisky. No. 1,329,350; Jan. 27; v. 270; p. 589.

Digitized by Google

Refrigerators, Water-cooler for. C. H. Boeck. No. 1,353,018; Sept. 14; v. 278; p. 290.
Refrigerators, Weighing attachment for. A. O. Hodges. No. 1,358,849; Nov. 16; v. 280; p. 428.
Regenerating system. F. W. Meyer. No. 1,339,903; May 11; v. 274; p. 310.
Regenerative furnace. E. Hurez. No. 1,333,716; Mar. 16; v. 272; p. 404.
Regenerative furnace. C. Stein. No. 1,350,624; Aug. 24; v. 277; p. 657.
Regenerator. W. Gast. No. 1,361,709; Dec. 7; v. 281; p. 146.
Register: *See*—
Account-register.
Article-register.
Autographic register.
Cash-register.
Cash-account register.
Coin-register.
Coin-controlling register.
Credit-account register.
Hot and cold air register.
Mileage-register.
Setback-register.
Stock-register.
Talking-machine register.
Table feeding and checking register.
Ticket-issuing register.
Time-register.
Register. G. C. Chase. No. 1,330,682; Feb. 10; v. 271; p. 281.
Register. W. J. Crumpton. No. 1,349,049; Aug. 10; v. 277; p. 230.
Register. G. W. Druliner. No. 1,336,210; Apr. 6; v. 273; p. 96.
Register. J. De Graff. No. 1,359,360; Nov. 16; v. 280; p. 526.
Register or grill. E. D. Howell. No. 1,348,360; Aug. 3; v. 277; p. 45.
Register. F. P. Wood. No. 1,360,851; Nov. 30; v. 280; p. 934.
Register and recording-machines, Combined autographic. H. M. Crouse and G. G. Newell. No. 1,355,816; Oct. 19; v. 279; p. 361.
Register devices, Sheet-receiving member for. C. P. Klorer. No. 1,330,636; Feb. 10; v. 271; p. 272.
Register-hook. H. H. Strait. No. 1,330,454; Feb. 10; v. 271; p. 238.
Register-reset. C. Carson. No. 1,344,288; June 22; v. 275; p. 706.
Registers, Drying-rack for hot-air. D. L. Holwick. No. 1,334,032; Mar. 16; v. 272; p. 464.
Registers, Keyboard-clearing means for. E. E. Phinney. No. 1,354,839; Oct. 5; v. 279; p. 78.
Registers, Movable pocket for. W. R. Owen. No. 1,349,527; Aug. 10; v. 277; p. 325.
Registers, Paying attachment for cash-. S. J. Bachardy and J. Kiss. No. 1,344,786; June 29; v. 275; p. 869.
Registers, Zero-setting means for. G. C. Chase and D. V. Mazzocco. No. 1,358,058; Nov. 9; v. 280; p. 226.
Registering and recording mechanism. M. M. Goldberg. No. 1,327,153; Jan. 6; v. 270; p. 51.
Registering apparatus. G. G. Grower. No. 1,346,100; July 6; v. 276; p. 158.
Registering device. G. H. Bourne. No. 1,359,484; Nov. 23; v. 280; p. 596.
Registering-hook. H. Sauter. No. 1,336,487; Apr. 13; v. 273; p. 207.
Registering-machine. H. A. Martin. No. 1,348,573; Aug. 3; v. 277; p. 86.
Registering system, Call-. A. E. Lundell. No. 1,354,051; Sept. 28; v. 278; p. 598.
Regulating apparatus, Pressure-operated. F. J. Heideman and J. N. Hadjisky. No. 1,329,351; Jan. 27; v. 270; p. 589.
Regulating mechanism. J. M. Hopwood. No. 1,338,929; May 4; v. 274; p. 51.
Regulating system. R. M. Carothers. No. 1,331,898; Feb. 24; v. 271; p. 599.
Regulating system. L. W. Thompson. No. 1,360,822; Nov. 30; v. 280; p. 928.
Regulating system. F. H. Winter. No. 1,339,996; May 11; v. 274; p. 328.
Regulating system. W. R. Woodward. No. 1,338,718; May 4; v. 274; p. 13.
Regulation and apparatus therefor. J. M. Hopwood. No. 1,338,928; May 4; v. 274; p. 51.
Regulator: *See*—
Arc-current regulator.
Air-compressor regulator.
Air-suction regulator.
Automatic regulator.
Carbureter-regulator.
Damper-regulator.
Draft-regulator.
Dumper-regulator.
Elastic-fluid-turbine regulator.
Electric regulator.
Electric-generator regulator.
Electric-light.
Electric-motor regulator.
Electrical regulator.
Engine-regulator.
Feed-regulator.
Feed-water regulator.
Fluid-regulator.
Fuel-regulator.
Fuel-mixing regulator.
Furnace-regulator.
Gas-regulator.
Gas-pressure regulator.
Grain-flow regulator.
Heat-regulator.
Pressure-regulator.
Speed-regulator.
Stop-charge regulator.
Tank-regulator.
Taper-charge regulator.
Temperature-regulator.
Thermostatic regulator.
Valve-regulator.
Regulator. W. Hodgson. No. 1,338,080; Apr. 27; v. 273; p. 655.
Regulator. W. Hodgson. No. 1,338,081; Apr. 27; v. 273; p. 655.
Regulator. J. A. Wiener. No. 1,353,298; Sept. 21; v. 278; p. 404.
Regulator-motor. R. J. Seator. No. 1,329,553; Feb. 5; v. 271; p. 39.
Reinforced hollow board. L. Christin. No. 1,329,292; Jan. 27; v. 270; p. 279.
Reinforced material, Apparatus and method for making transversely-. E. H. Angier. No. 1,332,534; Mar. 2; v. 272; p. 69.
Reinforcement and fastening, Machine for manufacturing combined spiral. A. McPhail. No. 1,352,904; Sept. 14; v. 278; p. 268.
Reinforcing-bars, Means for spacing. W. E. White. (Reissue.) No. 14,825; Mar. 23; v. 272; p. 684.
Reinforcing element and preforming same, Moldable. D. A. Dickey. No. 1,361,971; Dec. 14; v. 281; p. 245.
Reins, Shortening attachment for. E. F. Johnson. No. 1,352,812; Sept. 14; v. 278; p. 250.
Relay. C. W. Burrows. No 1,329,578; Feb. 3; v. 271; p. 44.
Relay. D. C. Davis and C. L. Fortescue. No. 1,351,027; Aug. 31; v. 277; p. 797.
Relay. J. Erickson. No. 1,330,020; Feb. 3; v. 271; p. 126.
Relay. J. Erickson. (Reissue.) No. 14,834; Apr. 6; v. 273; p. 133.
Relay. J. Erickson. No. 1,342,256; June 1; v. 275; p. 126.
Relay. H. A. Ewen. No. 1,329,756; Feb. 3; v. 271; p. 77.
Relay. C. O. Harrington. No. 1,343,719; June 15; v. 275; p. 530.
Relay. W. Kaisling. No. 334,037; Mar. 16; v. 272; p. 465.
Relay. W. F. Krautter. No. 1,330,124; Feb. 10; v. 271; p. 178.
Relay. R. C. Leake. No. 1,344,699; June 29; v. 275; p. 852.
Relay. B. H. Smith. No. 1,344,730; June 29; v. 275; p. 858.
Relay, Alternating-current. E. J. Blake. No. 1,333,058; Mar. 9; v. 272; p. 220.
Relay, Alternating-current. C. V. Drysdale. No. 1,328,825; Jan. 27; v. 270; p. 491.
Relay, Alternating-current. O. S. Field. No. 1,333,070; Mar. 9; v. 272; p. 222.
Relay, Cut-out. N. R. Haas. No. 1,327,951; Jan. 13; v. 270; p. 261.
Relay device. C. C. Whittaker. No. 1,354,152; Sept. 28; v. 278; p. 619.
Relay, Electric. K. Fischer. No. 1,328,041; Jan. 13; v. 270; p. 278.
Relay, Electric. G. McAlpine. No. 1,360,235; Nov. 23; v. 280; p. 744.
Relay, Electrical. H. W. Brown. No. 1,341,629; June 1; v. 275; p. 3.
Relay, Electrical. L. A. Mortimer. No. 1,345,798; July 6; v. 276; p. 92.
Relay for the protection of generators and transformers, Combined differential and reverse power. A. E. McColl. No. 1,354,573; Oct. 5; v. 279; p. 25.
Relay, Mechanical and electrical. A. Barr and W. Stroud. No. 1,331,893; Feb. 24; v. 271; p. 598.
Relay, Multivalue overload-. G. H. Whittingham and W. T. Holmes. No. 1,354,708; Oct. 5; v. 279; p. 53.
Relay or circuit-closing device, Electric. W. N. Barlow. No. 1,348,842; Aug. 10; v. 277; p. 190.
Relay, Overload-. E. E. Valk. No. 1,347,767; July 27; v. 276; p. 660.
Relay system. H. O. Rugh. No. 1,337,797; Apr. 20; v. 273; p. 531.
Relay, Time-limit. G. A. Burnham. No. 1,357,681; Nov. 2; v. 280; p. 91.
Release device, Graduated-. A. W. Rendell. No. 1,333,937; Mar. 16; v. 272; p. 445.
Release-hook. A. E. Freeman. No. 1,350,716; Aug. 24; v. 277; p. 675.
Repair device. M. Rodgers. No. 1,355,781; Oct. 12; v. 279; p. 314.
Repair-hanger. H. C. Steinmetz. No. 1,358,260; Nov. 9; v. 280; p. 265.
Repeating device. H. H. Welch. No. 1,357,602; Nov. 2; v. 280; p. 75.
Reproducer. C. C. Shigley. No. 1,340,298. May 18; v. 274; p. 442.
Reraller. C. Runyan. No. 1,353,072; Sept. 14; v. 278; p. 301.
Resawing-machine. C. B. Sprague. No. 1,344,096; June 22; v. 275; p. 668.
Resawing-machine attachment. J. A. Neal. No. 1,356,110; Oct. 19; v. 279; p. 420.
Resawing-machine, Twin circular. J. A. Neal. No. 1,340,286; May 18; v. 274; p. 439.
Reservoir, Oil-. H. M. Boe. No. 1,336,983; Apr. 13; v. 273; p. 302.
Reservoir, Storage-. J. J. Allinson. No. 1,360,170; Nov. 23; v. 280; p. 732.
Reset mechanism. J. Berge. No. 1,358,817; Nov. 16; v. 280; p. 422.

Digitized by Google

Resilient base. T. B. Cook and L. Foster. No. 1,338,355; Apr. 27; v. 273; p. 744.
Resilient driving connection. V. J. Shepard. No. 1,362,048; Dec. 14; v. 281; p. 260.
Resilient rod. C. E. McManus. No. 1,346,834; July 20; v. 276; p. 418.
Resilient tire. E. Favary. No. 1,363,856; Dec. 28; v. 281; p. 704.
Resilient tire. E. Favary. No. 1,363,857; Dec. 28; v. 281; p. 704.
Resilient wheel. H. C. Anderson. No. 1,342,271; June 1; v. 275; p. 129.
Resilient wheel. H. S. Bauman. No. 1,334,128; Mar. 16; v. 272; p. 482.
Resilient wheel. D. S. Beach. No. 1,343,898; June 22; v. 275; p. 630.
Resilient wheel. W. A. Black. (Reissue.) No. 14,900; June 29; v. 275; p. 975.
Resilient wheel. D. D. Bohannon. No. 1,345,827; July 6; v. 276; p. 98.
Resilient wheel. J. A. Braese. No. 1,349,599; Aug. 17; v. 277; p. 412.
Resilient wheel. A. H. Carlson. No. 1,344,986; June 29; v. 275; p. 906.
Resilient wheel. T. T. Chaloner. No. 1,347,442; July 20; v. 276; p. 538.
Resilient wheel. E. W. Conness. No. 1,335,661; Mar. 30; v. 272; p. 876.
Resilient wheel. A. D'Errico. No. 1,341,842; June 1; v. 275; p. 45.
Resilient wheel. M. B. Diskin. No. 1,353,731; Sept. 21; v. 278; p. 491.
Resilient wheel. M. Edling and W. Falk. No. 1,345,912; July 6; v. 276; p. 115.
Resilient wheel. J. W. Headley. No. 1,347,034; July 20; v. 276; p. 458.
Resilient wheel. G. Hughes. No. 1,327,096; Jan. 6; v. 270; p. 41.
Resilient wheel. H. E. Hunsberger. No. 1,330,943; Feb. 17; v. 271; p. 400.
Resilient wheel. G. Jacobs. No. 1,352,752; Sept. 14; v. 278; p. 238.
Resilient wheel. B. Jendryke. No. 1,354,304; Sept. 28; v. 278; p. 650.
Resilient wheel. A. Jimenez. No. 1,342,289; June 1; v. 275; p. 132.
Resilient wheel. M. Jungling. No. 1,344,513; June 22; v. 275; p. 751.
Resilient wheel. J. Meleg. No. 1,353,175; Sept. 21; v. 278; p. 381.
Resilient wheel. D. Moriarity. No. 1,334,111; Mar. 16; v. 272; p. 478.
Resilient wheel. J. J. O'Neil. No. 1,330,492; Feb. 10; v. 271; p. 246.
Resilient wheel. N. Ratchford. No. 1,335,152; Apr. 6; v. 273; p. 9.
Resilient wheel. A. C. Schuman. No. 1,359,925; Nov. 23; v. 280; p. 683.
Resilient wheel. H. R. Shafer. No. 1,343,986 June 22; v. 275; p. 647.
Resilient wheel. A. W. Tesch. No. 1,352,769; Sept. 14; v. 278; p. 241.
Resilient wheel. V. A. Walkup. No. 1,339,800; May 11; v. 274; p. 291.
Resilient wheel. W. A. Witten. No. 1,338,061; Apr. 27; v. 273; p. 651.
Resilient wheel. J. M. Woods. No. 1,336,060; Apr. 6; v. 273; p. 67.
Resin, &c., Apparatus for extracting. W. Edenborn. No. 1,351,629; Aug. 31; v. 297; p. 916.
Resin-insulating material, Coumarone-. A. A. Wells. No. 1,332,860; Mar. 2; v. 272; p. 131.
Resin, Producing. S. P. Miller. No. 1,360,665; Nov. 30; v. 280; p. 897.
Resin, Producing artificial. H. N. Copthorne and A. L. Tannehill. No. 1,353,220; Sept. 21; v. 278; p. 389.
Resins and turpentine, Treatment of resinous woods for the recovery of. W. H. Sawyer. No. 1,334,679; Mar. 23; v. 272; p. 631.
Resistance device. L. Kebler. No. 1,347,102; July 20; v. 276; p. 471.
Resistance element. T. W. Case. No. 1,342,842; June 8; v. 275; p. 294.
Resistance material. H. T. Bellamy and B. T. Sweely. No. 1,346,874; July 20; v. 276; p. 426.
Resistance unit. C. R. Englund. No. 1,347,900; July 27; v. 276; p. 686.
Resonant converter. W. S. Lemmon. No. 1,340,963; May 25; v. 274; p. 639.
Resonator. A. W. Schreiner. No. 1,328,059; Jan. 13; v. 270; p. 282.
Respiration-indicator. B. de Bernyz. No. 1,357,545; Nov. 2; v. 280; p. 65.
Respiration, Producing artificial. G. P. E. Stolle. No. 1,343,846; June 15; v. 275; p. 483.
Respiration, Producing artificial. G. P. E. Stolle. No. 1,358,893; Nov. 16; v. 280; p. 438.
Respirator. F. W. and W. G. King. No. 1,359,073; Nov. 16; v. 280; p. 471.
Respirator. A. B. Lamb, E. W. Miller, and P. W. Carleton. No. 1,352,818; Sept. 14; v. 278; p. 251.
Respirator. D. K. H. Schümann. No. 1,353,857; Sept. 28; v. 278; p. 559.
Respirator. R. Watanabe. No. 1,331,601; Feb. 24; v. 271; p. 543.
Respirator, Artificial. C. L. Heald. No. 1,337,225; Apr. 20; v. 273; p. 423.
Rest. T. D. McFarlane. No. 1,363,335; Dec. 28; v. 281; p. 603.
Restaurant and vending mechanism therefor, Automatic. H. A. Hall. No. 1,353,996; Sept. 28; v. 278; p. 587.
Restaurant-service device. A. Abelson. No. 1,349,647; Aug. 17; v. 277; p. 421.
Restraining device, Animal-. C. E. Cline. No. 1,327,874; Jan. 6; v. 270; p. 92.
Resurfacing device. H. H. Eaton. No. 1,329,383; Feb. 3; v. 271; p. 8.
Retarded switch. H. W. Cheney. No. 1,344,199; June 22; v. 275; p. 688.
Retort. P. Reecke. No. 1,358,327; Nov. 9; v. 280; p. 278.
Retort. G. Harrison and E. G. S. Bennett. No. 1,363,588; Dec. 28; v. 281; p. 652.
Retort. E. W. Hopper. No. 1,331,066; Feb. 17; v. 271; p. 423.
Retort and separating-tank, Distillation-. G. F. Rendall. No. 1,345,404; July 6; v. 276; p. 15.
Retorts, Device for charging. F. M. E. Blass. No. 1,357,487; Nov. 2; v. 280; p. 54.
Retorts, Machine for charging and discharging. J. G. W. Aldridge. No. 1,327,582; Jan. 6; v. 270; p. 131.
Retorts or similar devices, Making. J. J. Simmonds. No. 1,331,285; Feb. 17; v. 271; p. 462.
Retorts or similar devices, Apparatus for making. J. J. Simmonds. No. 1,331,286; Feb. 17; v. 271; p. 462.
Retouching-screen. I. Boysen. No. 1,343,613; June 15; v. 275; p. 509.
Retreading-mold. J. H. Smith. No. 1,358,888; Nov. 16; v. 280; p. 437.
Reverberatory furnace. H. L. Charles. No. 1,351,835; Sept. 7; v. 278; p. 24.
Reverser, Automatic. J. Horn. (Reissue.) No. 14,815; Mar. 9; v. 272; p. 321.
Reversible chair. F. S. Pascoe. No. 1,353,066; Sept. 14; v. 278; p. 300.
Reversible combustion-engine. P. Hentschke. No. 1,333,416; Mar. 9; v. 272; p. 286.
Reversing-furnace. L. L. Knox. No. 1,351,915; Sept. 7; v. 278; p. 41.
Reversing mechanism. J. Becker. No. 1,363,556; Dec. 28; v. 281; p. 646.
Reversing mechanism. F. V. Percin. No. 1,359,422; Nov. 16; v. 280; p. 539.
Reversing mechanism. J. V. Petrelli. No. 1,337,531; Apr. 20; v. 273; p. 481.
Reversing mechanism. F. W. Wappat. No. 1,344,606; June 22; v. 275; p. 770.
Reversing mechanism. J. B. Wendall. No. 1,338,086; Apr. 27; v. 273; p. 656.
Reversing mechanism, Automatic. R. S. Corlett. No. No. 1,358,294; Nov. 9; v. 280; p. 271.
Reversing mechanism, Automatic. R. S. Corlett. No. 1,358,295; Nov. 9; v. 280; p. 272.
Revolver and similar arms. C. P. Pinto. No. 1,342,923; June 8; v. 275; p. 310.
Revolver-stock. P. Donadio. No. 1,341,843; June 1; v. 275; p. 46.
Revolving case-clamp. O. Bergstrom. No. 1,334,732; Mar. 23; v. 272; p. 641.
Revolving chair. O. Fisher. No. 1,337,059; Apr. 13; v. 273; p. 318.
Revolving chair. O. O. Krabol. No. 1,332,402; Mar. 2; v. 272; p. 44.
Revolving-cylinder engine. G. H. Lutz. No. 1,335,065; Mar. 30; v. 272; p. 764.
Revolving house. S. M. Stevens. No. 1,353,798; Sept. 21; v. 278; p. 503.
Revolving separator. A. B. Carstens. No. 1,331,802; Feb. 24; v. 271; p. 581.
Revoluble seat. C. M. Hansen. No. 1,337,221; Apr. 20; v. 273; p. 422.
Rewinding-machine. A. Ross. No. 1,348,242; Aug. 3; v. 277; p. 23.
Rheostat. W. L. Bliss. No. 1,327,135; Jan. 6; v. 270; p. 48.
Rheostat. H. L. Dodge. No. 1,337,826; Apr. 20; v. 273; p. 536.
Rheostat. R. W. Ebeling. No. 1,329,167; Jan. 27; v. 270; p. 557.
Rheostat. M. H. Greenewalt. No. 1,357,773; Nov. 2; v. 280; p. 109.
Rheostat. J. G. Kjellgren. No. 1,348,809; Aug. 3; v. 277; p. 130.
Rheostat. A. Papini. No. 1,335,022; Mar. 30; v. 272; p. 757.
Rheostat. A. Papini. No. 1,336,918; Apr. 13; v. 273; p. 290.
Rheostat. J. Parkin, Jr. No. 1,335,181; Mar. 30; v. 272; p. 786.
Rheostat, Adjustable. P. J. Howe. No. 1,350,280; Aug. 17; v. 277; p. 543.
Rheostat, Bell-. A. Papini. No. 1,335,295; Mar. 30; v. 272; p. 807.

Digitized by Google

Rheostat, Compressible. A Papini. No. 1,343,472; June 15; v. 275; p. 480.
Rheostat, Compression-. A. J. Allen. No. 1,359,648; Nov. 23; v. 280; p. 628.
Rheostat, Compression-. O. A. Knopp. No. 1,345,015; June 29; v. 275; p. 912.
Rheostat, Electric regulating-. L. Boothman. No. 1,351,019; Aug. 31; v. 277; p. 795.
Rheostat, Liquid. G. F. De Wein. No. 1,332,167; Feb. 24; v. 271; p. 648.
Rheostat, Liquid. A. J. Nicht, Jr. No. 1,340,241; May 18; v. 274; p. 432.
Ribbon, Mechanism for winding. L. H. Anderson. No. 1,354,369; Sept. 28; v. 278; p. 663.
Ribbon movement. L. R. Roberts. No. 1,338,699; May 4; v. 274; p. 10.
Ribbon-reverse mechanism. J. A. Hagerstrom. No. 1,362,098; Dec. 14; v. 281; p. 270.
Ribbons, Process and apparatus for inking. L. M. Dixon. No. 1,364,043; Dec. 28; v. 281; p. 740.
Ribbons, Reinking device for. W. W. Lasker. No. 1,358,083; Nov. 9; v. 280; p. 231.
Rice-straw shears. H. O. Scranton. No. 1,359,752; Nov. 23; v. 280; p. 649.
Rifle. H. H. Jones. No. 1,343,456; June 15; v. 274; p. 477.
Rifle. P. M. Mehta. No. 1,346,329; July 13; v. 276; p. 260.
Rifle. L. I. Pettys. No. 1,357,513; Nov. 2; v. 280; p. 59.
Rifle and machine-gun. T. K. North. No. 1,363,262; Dec. 28; v. 281; p. 589.
Rifle and pistol sight. J. H. Price. No. 1,330,002; Feb. 3; v. 271; p. 128.
Rifle, Automatic. E. Hänni and H. Stamm. No. 1,346,494; July 13; v. 276; p. 292.
Rifle-barrel. J. D. Pedersen. No. 1,355,421; Oct. 12; v. 279; p. 244.
Rifle-barrel. J. D. Pedersen. No. 1,355,422; Oct. 12; v. 279; p. 244.
Rifle-cleaning rod. J. B. Jones. No. 1,347,381; July 20; v. 276; p. 526.
Rifle-ejector. H. A. Lewis. No. 1,335,063; Mar. 30; v. 272; p. 764.
Rifle-grenade sight. P. Lera. No. 1,340,453; May 18; v. 274; p. 471.
Rifle, Military. P. B. Cunningham. No. 1,344,991; June 29; v. 275; p. 907.
Rifle, Repeating. J. W. Ballard. No. 1,328,356; Jan. 20; v. 270; p. 376.
Rifle-sight. J. W. Harkom. No. 1,358,201; Nov. 9; v. 280; p. 253.
Rifle-sight. G. S. Lewis. No. 1,338,183; Apr. 27; v. 273; p. 674.
Rifle-sight. S. I. Prescott. No. 1,359,740; Nov. 23; v. 280; p. 647.
Rifles and machine-guns, Cartridge-magazine for. M. G. Farquhar and A. H. Hill. No. 1,337,893; Apr. 20; v. 273; p. 550.
Rifles, Wire-cutter for. J. J. R. Meyer. No. 1,333,556; Mar. 9; v. 272; p. 318.
Rim. O. H. Jobski. No. 1,329,768; Feb. 3; v. 271; p. 78.
Rim. C. H. McKendree. No. 1,362,430; Dec. 14; v. 281; p. 335.
Rim breaker, Demountable-. B. H. Mersch. No. 1,350,418; Aug. 24; v. 277; p. 617.
Rim construction. E. G. Kline. No. 1,329,976; Feb. 6; v. 271; p. 118.
Rim-contractor. C. C. Heitmiller. No. 1,344,889; June 29; v. 275; p. 889.
Rim contractor or expander. J. W. Shute. No. 1,351,406; Aug. 31; v. 277; p. 872.
Rim, Demountable. A. L. Anderson. No. 1,353,943; Sept. 28; v. 278; p. 576.
Rim, Demountable. G. G. Barry. No. 1,358,923; Nov. 16; v. 280; p. 443.
Rim, Demountable. J. M. Berry. No. 1,333,748; Mar. 16; v. 272; p. 410.
Rim, Demountable. W. W. Bowman. No. 1,345,313; June 29; v. 275; p. 970.
Rim, Demountable. J. R. Brown. No. 1,357,144; Oct. 26; v. 279; p. 669.
Rim, Demountable. D. R. Carter. No. 1,329,289; Jan. 27; v. 270; p. 579.
Rim, Demountable. W. E. Copithorn. No. 1,354,468; Oct. 5; v. 279; p. 5.
Rim, Demountable. G. Esmarian and K. Kafafian. No. 1,353,573; Sept. 21; v. 278; p. 459.
Rim, Demountable. No. L. Friedman. No. 1,332,121; Feb. 24; v. 271; p. 640.
Rim, Demountable. H. Guthrie. No. 1,339,758; Feb. 10; v. 271; p. 295.
Rim, Demountable. C. C. Harbridge. No. 1,328,731; Jan. 20; v. 270; p. 445.
Rim, Demountable. W. I. Harp. No. 1,340,894; May 25; v. 274; p. 626.
Rim, Demountable. J. W. Higgins. No. 1,339,651; May 11; v. 274; p. 263.
Rim, Demountable. M. Hollister, Jr. No. 1,345,332; June 29; v. 275; p. 973.
Rim, Demountable. O. L. Ingram. No. 1,343,394; June 15; v. 275; p. 465.
Rim, Demountable. B. R. Killian. No. 1,360,760; Nov. 30; v. 280; p. 916.
Rim, Demountable. W. S. Krause. No. 1,342,118; June 1; v. 275; p. 99.
Rim, Demountable. B. Lamburello. No. 1,344,662; June 29; v. 275; p. 845.
Rim, Demountable. P. S. Larson. No. 1,348,122; July 27; v. 276; p. 730.
Rim, Demountable. W. J. P. Moore. No. 1,362,340; Dec. 14; v. 281; p. 317.
Rim, Demountable. E. J. Osborne. No. 1,340,244; May 18; v. 274; p. 432.
Rim, Demountable. H. J. Parker. No. 1,340,977; May 25; v. 274; p. 642.
Rim, Demountable. J. S. Pierce. No. 1,340,671; May 18; v. 274; p. 513.
Rim, Demountable. J. E. Rhodes. No. 1,333,630; Mar. 16; v. 272; p. 388.
Rim, Demountable. K. B. Rice and R. E. Muffly. No. 1,355,166; Oct. 12; v. 279; p. 195.
Rim, Demountable. W. H. Rounds. No. 1,344,212; June 22; v. 275; p. 691.
Rim, Demountable. O. Smith. No. 1,345,269; June 29; v. 275; p. 961.
Rim, Demountable. B. A. Stocking. No. 1,338,110; Apr. 27; v. 273; p. 660.
Rim, Demountable. F. H. Van Loozen. No. 1,333,232; Mar. 9; v. 272; p. 252.
Rim, Demountable. W. S. Watson. No. 1,358,803; Nov. 16; v. 280; p. 419.
Rim, Demountable. L. P. Woodbury. No. 1,341,000; May 25; v. 274; p. 646.
Rim, Demountable split. J. H. Wagenhorst. No. 1,328,605; Jan. 20; v. 270; p. 422.
Rim fastener, Detachable-. H. J. Preston. No. 1,331,375; Feb. 17; v. 271; p. 479.
Rim-fastening means. H. J. Foster. No. 1,341,118; May 25; v. 274; p. 669.
Rim-fastening means, Demountable-. D. L. Spero. No. 1,347,128; July 20; v. 276; p. 476.
Rim holder, Spare-. C. F. Wasserfallen. No. 1,357,431; Nov. 2; v. 280; p. 44.
Rim-holding stand. P. Cannon. No. 1,337,821; Apr. 20; v. 273; p. 535.
Rim of the cross-cut type, Demountable. O. W. Mott. No. 1,338,390; Apr. 27; v. 273; p. 713.
Rim, Separable. O. Abbadini. No. 1,335,778; Apr. 6; v. 273; p. 15.
Rim, Split demountable. E. Oliver. No. 1,341,926; June 1; v. 275; p. 62.
Rim-spreader. F. Lederer. No. 1,335,248; Mar. 30; v. 272; p. 798.
Rim structure, Demountable-. T. F. Ware. No. 1,333,518; Mar. 9; v. 272; p. 806.
Rim, Transversely-split demountable. R. S. Bryant. No. 1,353,988; Sept. 28; v. 278; p. 585.
Rims, Demountable. A. E. McPherson. No. 1,338,145; Apr. 27; v. 273; p. 667.
Rims, Fastening means for demountable. B. Tamburello. No. 1,336,934; Apr. 13; v. 273; p. 294.
Ring: *See*—
Binder-ring.
Drive-ring.
Electric-wire-suspension ring.
Finger-ring.
Harness-ring.
Hog-ring.
Key-ring.
Napkin-ring.
Packing-ring.
Piston-ring.
Piston packing-ring.
Spinning-ring.
Spring-ring.
Wall-ring.
Ring cluster-mounting. W. Sheff. No. 1,362,748; Dec. 21; v. 281; p. 449.
Ring-furnace. B. E. Broadwell. No. 1,330,164; Feb. 10; v. 271; p. 185.
Ring-furnace. V. C. Doerschuk. No. 1,330,175; Feb. 10; v. 271; p. 187.
Ring-gage. A. H. Maynard. No. 1,330,330; Feb. 10; v. 271; p. 215.
Ring-gage. F. Ray. No. 1,332,571; Mar. 2; v. 272; p. 76.
Ring-gaging instrument. F. Ray. No. 1,332,570; Mar. 2; v. 272; p. 76.
Ring-mountings, Making. W. C. Bowers. No. 1,352,870; Sept. 14; v. 278; p. 261.
Ring or annulus and making same, Resilient. J. F. Palmer. No. 1,352,470; Sept. 14; v. 278; p. 181.
Ring-reducer. C. J. Kiefer. No. 1,357,200; Oct. 26; v. 279; p. 679.
Ring-tensioning apparatus. F. Ray. No. 1,332,573; Mar. 2; v. 272; p. 76.
Rings and parts thereof, Pattern for casting band and other. A. Wendt. No. 1,358,906; Nov. 16; v. 280; p. 440.
Rings, Brazing end. C. W. Starker. No. 1,341,682; June 1; v. 275; p. 14.
Rings, Flask for use in casting finger. A. Wendt. No. 1,358,905; Nov. 16; v. 280; p. 440.
Rings, Forming finger-. E. E. Bross. No. 1,360,719; Nov. 30; v. 280; p. 908.
Rings from solid bars, Forming. J. A. Ganster. No. 1,328,509; Jan. 20; v. 270; p. 404.

Digitized by Google

Alphabetical list of inventions—Continued.

Rings having profiled inner surfaces, Machine for pressing. P. S. Rydbeck. No. 1,350,568; Aug. 24; v. 277; p. 647.
Rings, Mounting for cluster-top for. A. L. Eliasoff and C. Birnbaum. No. 1,351,205; Aug. 31; v. 277; p. 832.
Ringing and listening key. A. Klay. No. 1,338,117; Mar. 9; v. 272; p. 231.
Rinse-tub. P. O. Vanatter. No. 1,357,749; Nov. 2; v. 280; p. 104.
Rivet and cap setting machines, Feeding mechanism for. A. R. Havener. No. 1,333,414; Mar. 9; v. 272; p. 286.
Rivet-breaker. W. Nurnberger. No. 1,331,353; Feb. 17; v. 271; p. 475.
Rivet-caps, Machine for feeding circular. A. R. Havener. No. 1,342,331; June 1; v. 275; p. 140.
Rivet-cutter. I. W. Barnes. No. 1,350,206; Aug. 17; v. 277; p. 529.
Rivet-head catcher. H. J. Morley and G. L. Green. No. 1,340,787; May 18; v. 274; p. 534.
Rivet-holder and bucker-up. W. Fitzgerald. No. 1,332,620; Mar. 2; v. 272; p. 85.
Rivet holding and transporting device. A. L. Moore, Sr. No. 1,331,718; Feb. 24; v. 271; p. 565.
Rivet-mold, Collapsible. T. J. Hughes. No. 1,353,813; Sept. 21; v. 278; p. 506.
Rivet-setting and similar operations, Apparatus for. S. Lake. No. 1,337,457; Apr. 20; v. 273; p. 466.
Rivet-sorting table. F. Ward. No. 1,333,238; Mar. 9; v. 272; p. 252.
Rivet, Two-part self-locking. H. B. Hemingway. No. 1,339,197; May 4; v. 274; p. 101.
Rivets, Die for making double-ended. W. L. Curtis. No. 1,327,525; Jan. 6; v. 270; p. 121.
Rivets, &c., Machine for heating. A. C. Taylor. No. 1,354,859; Oct. 5; v. 279; p. 82.
Riveters, Handshield for. J. P. Donovan. No. 1,351,028; Aug. 31; v. 277; p. 797.
Riveting. H. R. Pennington. No. 1,346,054; July 6; v. 276; p. 144.
Riveting apparatus. E. T. Reynolds. No. 1,332,519; Mar. 2; v. 272; p. 66.
Riveting-machine. C. A. Elmstrom. No. 1,335,227; Mar. 30; v. 272; p. 794.
Riveting-machine. G. A. E. Jones. No. 1,331,568; Feb. 24; v. 271; p. 536.
Riveting-machine. I. E. Sexton. No. 1,328,905; Jan. 27; v. 270; p. 508.
Riveting-machine. H. E. Trumbull. No. 1,352,851; Sept. 14; v. 278; p. 257.
Riveting-machine. J. Weiner. No. 1,360,065; Nov. 23; v. 280; p. 711.
Riveting-machine. M. W. Wilkins. No. 1,357,368; Nov. 2; v. 280; p. 82.
Riveting-machine and process of riveting. J. P. Badenhausen. No. 1,340,361; May 18; v. 274; p. 454.
Riveting-machine and riveting. F. H. Shaw. No. 1,355,363; Oct. 12; v. 279; p. 284.
Riveting machine, Double-. W. L. Simpson. No. 1,351,444; Aug. 31; v. 277; p. 880.
Riveting-machine, Electric. P. M. Benedict. No. 1,346,631; July 13; v. 276; p. 319.
Riveting-machines, Electric. F. P. Kobert. No. 1,345,679; July 6; v. 276; p. 69.
Riveting-sleeve. F. L. Doerr. No. 1,363,576; Dec. 28; v. 281; p. 650.
Riveting-tools, Support. A. Wolfanger. No. 1,364,015; Dec. 28; v. 281; p. 734.
Road-bed construction, Apparatus for use in. J. F. Stabell. No. 1,349,012; Aug. 10; v. 277; p. 222.
Road construction. D. W. Peery. No. 1,334,790; Mar. 23; v. 272; p. 652.
Road-crossing. S. H. Furry. No. 1,346,011; July 6; v. 276; p. 135.
Road-drag. F. F. Schneider. No. 1,362,190; Dec. 14; v. 281; p. 288.
Road-finishing machine. G. Maxon, Jr. No. 1,359,264; Nov. 16; v. 280; p. 507.
Road-forming machine. B. R. Bonney. No. 1,350,060; Aug. 17; v. 277; p. 500.
Road-guide. S. L. Gayle. No. 1,344,262; June 22; v. 275; p. 702.
Road-guide. E. B. Watts. No. 1,345,974; July 6; v. 276; p. 128.
Road-indicating log. W. H. Castner. No. 1,342,793; June 8; v. 275; p. 285.
Road-indicator. B. A. Wilmot. No. 1,336,268; Apr. 6; v. 273; p. 106.
Road-leveler. J. Northon. No. 1,329,543; Feb. 3; v. 271; p. 38.
Road-machine. J. H. McLeod. No. 1,337,241; Apr. 20; v. 273; p. 426.
Road-machine. E. Prendergast. No. 1,352,989; Sept. 14; v. 278; p. 285.
Road-maintainer. J. Bolton. No. 1,328,910; Jan. 27; v. 270; p. 509.
Road-maintainer. B. R. Bonney. No. 1,357,685; Nov. 2; v. 280; p. 92.
Road-maker, excavator, and grader. V. Schmidt. No. 1,336,658; Apr. 13; v. 273; p. 240.
Road-making. C. J. Åberg. No. 1,327,131; Jan. 6; v. 270; p. 47.
Road-making machine. J. W. T. Stephens. No. 1,354,076; Sept. 28; v. 278; p. 604.
Road materials, Apparatus for mixing. H. S. Julian and G. F. Hutchings. No. 1,332,987; Mar. 9; v. 272; p. 207.
Road or pavement. J. V. and T. J. Barrett. No. 1,351,607; Aug. 31; v. 277; p. 912.
Road planers or scrapers, Sloper attachment for. T. Ryan. No. 1,329,858; Feb. 3; v. 271; p. 96.
Road recorder and indicator. O. E. Joseph. No. 1,336,907; Apr. 13; v. 273; p. 289.
Road, Sand-base. S. G. Howe. No. 1,355,833; Oct. 19; v. 279; p. 365.
Road-signal. C. E. Lyman. No. 1,356,455; Oct. 19; v. 279; p. 487.
Road-surfacing composition and laying the same. J. E. Clark. No. 1,364,036; Dec. 28; v. 281; p. 738.
Road-surfacing material. G. L. Collord. No. 1,361,140; Dec. 7; v. 281; p. 32.
Road-sweeping machine. J. W. Jemmison. No. 1,328,521; Jan. 20; v. 270; p. 406.
Road-working device. W. D. Miller. No. 1,332,742; Mar. 2; v. 272; p. 108.
Roadbeds, Apparatus for laying. R. E. Rodgers and T. C. Jackson. No. 1,339,069; May 4; v. 274; p. 78.
Roadway. A. Anfinson. No. 1,353,446; Sept. 21; v. 278; p. 433.
Roadway. W. V. T. Cramer. No. 1,329,264; Jan. 27; v. 270; p. 575.
Roadway. L. P. Turner and J. R. Burrill. No. 1,338,801; May 4; v. 274; p. 28.
Roadway or pavement and constructing same. B. A. Ruge. No. 1,330,139; Feb. 10; v. 271; p. 180.
Roadway-reinforcement. G. W. Warmoth. No. 1,358,042; Nov. 9; v. 280; p. 222.
Roadways, Treating. S. E. Finley. No. 1,341,458; May 25; v. 274; p. 735.
Roadster, Convertible. B. V. Gilmore. No. 1,363,405; Dec. 21; v. 281; p. 616.
Roaster: *See*—
Peanut-roaster.
Roasting and boiling device. J. H. Doak. No. 1,337,122; Apr. 13; v. 273; p. 329.
Roasting-furnace. H. Allnder. No. 1,332,152; Feb. 24; v. 271; p. 646.
Roasting-furnace. F. Fouarge. No. 1,335,490; Mar. 30; v. 272; p. 843.
Roasting-pan. S. A. Holloway. No. 1,339,625; May 11; v. 274; p. 258.
Roasting-pan. C. Spitz. No. 1,349,302; Aug. 10; v. 277; p. 280.
Robe. L. Moore. No. 1,332,301; Mar. 2; v. 272; p. 24.
Robe-holder. R. L. Clark. No. 1,342,274; June 1; v. 275; p. 130.
Robe-holder. R. Hubert. No. 1,355,604; Oct. 12; v. 279; p. 280.
Robe, Safety-. W. J. Cameron. No. 1,362,525; Dec. 14; v. 281; p. 353.
Robe-securing device. R. Reid. No. 1,343,847; June 15; v. 275; p. 555.
Rock-arm lifter. N. L. Graves. No. 1,356,979; Oct. 26; v. 279; p. 657.
Rock-crusher. J. G. Simpson. No. 1,354,855; Oct. 5; v. 279; p. 81.
Rock-cutting apparatus. R. Temple. No. 1,330,825; Feb. 17; v. 271; p. 376.
Rock-drill. H. M. Chase. No. 1,352,428; Sept. 14; v. 278; p. 172.
Rock-drill. W. A. Smith. No. 1,340,505; May 18; v. 274; p. 481.
Rock-drill. W. A. Smith. No. 1,345,270; June 29; v. 275; p. 961.
Rock-drill and like machine. G. Constantinesco. No. 1,334,284; Mar. 23; v. 272; p. 557.
Rock-drill or impact-engine. G. W. Howell. No. 1,348,280; Aug. 3; v. 277; p. 30.
Rock-drill seating and controlling means. H. I. Stage. No. 1,336,930; Apr. 13; v. 273; p. 298.
Rock-drills for supplying water to the bore-holes during drilling, Reciprocating. W. E. Nettle, P. Selby, J. Blythe, and J. H. Holman. No. 1,360,011; Nov. 23; v. 280; p. 701.
Rock-drills when stuck, Device for pulling. G. Davidson. No. 1,339,024; May 4; v. 274; p. 69.
Rock formations, Apparatus for use in sealing crevices in. G. W. Christians. No. 1,327,269; Jan. 6; v. 270; p. 73.
Rock formations, Sealing crevices in. G. W. Christians. No. 1,327,268; Jan. 6; v. 270; p. 73.
Rock, Removing stratified. H. Rommerdale. No. 1,332,689; Mar. 2; v. 272; p. 98.
Rocker, Child's. J. A. Eberle. No. 1,341,303; May 25; v. 274; p. 705.
Rocker, Traveling. H. W. Noyes. No. 1,331,664; Feb. 24; v. 271; p. 555.
Rocking-chair. R. A. Lewis. No. 1,348,429; Aug. 3; v. 277; p. 59.
Rocking-chair. P. Zwijacz. No. 1,358,274; Nov. 9; v. 280; p. 268.
Rocking-chair, Anticreep. F. M. Pierce. No. 1,332,406; Mar. 2; v. 272; p. 45.

Digitized by Google

Rod: *See*—
Automobile steering-rod.
Collapsible rod.
Connecting-rod.
Curtain-rod.
Fishing-rod.
Piston-connecting rod.
Plunger-rod.
Radius-rod.
Resilient rod.
Rifle-cleaning rod.
Sash-rod.
Steering reach-rod.
Strut-rod.
Sucker-rod.
Tool-rod.
Welding-rod.

Rod and fixture support, Adjustable detachable. D. E. Sandberg. No. 1,345,463; July 6; v. 276; p. 27.

Rod-coupling. D. L. Lewis. No. 1,331,776; Feb. 24; v. 271; p. 575.

Rod-cutter. J. E. Schmidt and C. E. McArthur. No. 1,336,589; Apr. 13; v. 273; p. 227.

Rod-joint. J. F. Marshall. No. 1,347,111; July 20; v. 276; p. 473.

Rod or bolt, Threadless. F. E. White. No. 1,348,767; Aug. 3; v. 277; p. 123.

Rod-puller. J. B. Downey and A. C. Edgecomb. No. 1,357,853; Nov. 2; v. 280; p. 124.

Rod-socket and overshot fishing-tool, Combination. W. L. Borough. No. 1,347,203; July 20; v. 276; p. 490.

Rod-splicing clamp. B. M. Mathias. No. 1,338,746; May 4; v. 274; p. 18.

Rod-support. L. V. Cram. No. 1,342,099; June 1; v. 275; p. 95.

Rods and tubes, Machine for bending. L. H. McIntosh. No. 1,330,026; Feb. 3; v. 271; p. 127.

Rods, Apparatus for measuring and sorting. W. Gillett. No. 1,344,941; June 29; v. 275; p. 898.

Rods, Device for use in truing connecting-. A. Hammond. No. 1,333,172; Mar. 9; v. 272; p. 241.

Rods from plastic material, Apparatus for manufacturing. B. B. Goldsmith, W. Burt, Sr., and H. Barker. No. 1,362,095; Dec. 14; v. 281; p. 270.

Rods from plastic material, Manufacturing. B. B. Goldsmith and W. Burt, Sr. No. 1,362,094; Dec. 14; v. 281; p. 270.

Rods from plastic material, Process and apparatus for forming. B. B. Goldsmith and H. Barker. No. 1,362,093; Dec. 14; v. 281; p. 269.

Rods, Machine for grooving and filling. E. E. Johnson. No. 1,358,745; Nov. 16; v. 280; p. 408.

Rods, Method of and means for hardening and straightening. E. W. Pittman. No. 1,346,419; July 13; v. 276; p. 277.

Rods or bars, Transferring mechanism for metal. J. R. George. No. 1,359,163; Nov. 16; v. 280; p. 487.

Rods, Support for reinforcing-. G. H. Reed. No. 1,350,335; Aug. 24; v. 277; p. 600.

Rodent-trap, Automatic. N. Drag. No. 1,335,882; Apr. 6; v. 273; p. 33.

Roentgenograms. Apparatus for taking serial. F. Freytag. No. 1,357,391; Nov. 2; v. 280; p. 86.

Roll-adjusting apparatus. G. F. Crippen. No. 1,352,052; Sept. 7; v. 278; p. 65.

Roll and fastening means thereof. G. J. Fallesen and W. L. Farley. No. 1,332,890; Mar. 9; v. 272; p. 188.

Roll, Beater-. G. L. Bidwell. No. 1,362,219; Dec. 14; v. 281; p. 295.

Roll, Bending-. P. Parcells. No. 1,349,690; Aug. 17; v. 277; p. 430.

Roll-cleaning device. A. H. White. No. 1,357,207; Oct. 26; v. 279; p. 680.

Roll-container. W. H. Hope. No. 1,342,909; June 8; v. 275; p. 308.

Roll-cooling means. T. D. Hodge. No. 1,339,108; May 4; v. 274; p. 86.

Roll-driving connection. J. Withers and H. G. O'Brien. No. 1,336,177; Apr. 6; v. 273; p. 90.

Roll-film. A. W. McCurdy. No. 1,329,785; Feb. 3; v. 271; p. 82.

Roll-film carrier. O. C. Hummel. No. 1,340,957; May 25; v. 274; p. 638.

Roll-heating device. A. S. Rice. No. 1,343,849; June 15; v. 275; p. 556.

Roll-holder, cutter, and twine-holder, Combined. J. H. Reader. No. 1,340,132; May 11; v. 274; p. 354.

Roll-polishing machine. W. H. Rittberger. No. 1,354,213; Sept. 28; v. 278; p. 631.

Roll-releasing mechanism. W. F. Moran. No. 1,333,991; Mar. 16; v. 272; p. 456.

Roll, Seaming-. C. T. Small. No. 1,340,842; May 18; v. 274; p. 544.

Roll-traverse. J. A. Kester. No. 1,336,703; Apr. 13; v. 273; p. 249.

Rolls, Device for attaching coverings to. F. W. Holmes. No. 1,332,467; Mar. 2; v. 272; p. 56.

Rolls, Means for adjusting. J. W. Thropp. No. 1,352,999; Sept. 14; v. 278; p. 287.

Rolls, Means for delivering material from. W. M. Wheildon. No. 1,361,945; Dec. 14; v. 281; p. 240.

Rolls, Method and means for shaping. C. T. Henderson. No. 1,338,178; Apr. 27; v. 273; p. 673.

Roller: *See*—
Bearing-roller.
Hoop-roller.
Land-roller.
Partition and door roller.
Pitman shell-roller.
Printing-press roller.
Screen pickup-roller.
Shade-roller.

Roller-bearing-sleeve puller. N. E. Koch. No. 1,33-,658; Mar. 23; v. 272; p. 627.

Roller-cleaner. M. E. Van Brocklen and R. Haiden. No. 1,352,852; Sept. 14; v. 278; p. 258.

Roller-distributer. B. Lopez. No. 1,349,726; Aug. 17; v. 277; p. 437.

Roller-mill. F. E. Marcy. No. 1,361,601; Dec. 7; v. 281; p. 126.

Roller-skate wheel. H. A. Hannum. No. 1,347,777; July 27; v. 276; p. 662.

Roller-supporting device. P. Reinberger. No. 1,355,910; Oct. 19; v. 279; p. 379.

Roller-table. H. A. Lewis and A. D. Wood. No. 1,342,220; June 1; v. 275; p. 120.

Rollers and applying same, Cover for. W. H. Bolduc. No. 1,341,612; May 25; v. 274; p. 764.

Rollers and their attached window-blinds, Means for suspending and vertically adjusting spring-. D. R. Clifton. No. 1,333,010; Mar. 9; v. 272; p. 211.

Rolling balls and other objects of rotation. F. E. Canda. No. 1,337,640; Apr. 20; v. 273; p. 501.

Rolling-in tube device. H. A. T. Frentzel. No. 1,362,935; Dec. 21; v. 281; p. 484.

Rolling-mill. F. B. Bell. No. 1,350,057; Aug. 17; v. 277; p. 500.

Rolling-mill. C. W. Benjamin. No. 1,330,423; Feb. 10; v. 271; p. 233.

Rolling-mill. L. Jones. No. 1,354,976; Oct. 5; v. 279; p. 105.

Rolling-mill. L. C. Steele. No. 1,342,608; June 8; v. 275; p. 247.

Rolling-mill. L. Wolffgram. No. 1,352,493; Sept. 14; v. 278; p. 185.

Rolling-mill bridle. E. W. Dustin. No. 1,352,587; Sept. 14; v. 278; p. 204.

Rolling-mill guide. G. C. Beirwirth. No. 1,329,743; Feb. 3; v. 271; p. 74.

Rolling mill, Horizontal shell-. T. F. Baily and F. T. Cope. No. 1,353,982; Sept. 28; v. 278; p. 584.

Rolling-mill repeater. A. J. Townsend. No. 1,343,652; June 15; v. 275; p. 516.

Rolling-mill shearing and piling apparatus. H. G. O'Brien. No. 1,337,464; Apr. 20; v. 273; p. 468.

Rolling-mills, Apparatus for manipulating ingots, bars, and the like in. W. Williams. No. 1,340,129; May 11; v. 274; p. 354.

Rolling mills, Connection with plate and like. T. E. Holmes. No. 1,342,264; June 1; v. 275; p. 128.

Rolling-mills, Feed-roller apparatus for. H. A. Lewis. No. 1,356,535; Oct. 26; v. 279; p. 550.

Rolling mills, Friction drive for the top rolls of. J. E. Montgomery. No. 1,342,343; June 1; v. 275; p. 142.

Rolling-pin. O. A. Priboesky. No. 1,357,001; Oct. 26; v. 279; p. 641.

Rolling-pin and culinary holder, Combined. G. P. Cover. No. 1,327,461; Jan. 6; v. 270; p. 108.

Rolling screen. W. F. Leach. No. 1,354,313; Sept. 28; v. 278; p. 652.

Rolling screen. R. Nossek. No. 1,363,746; Dec. 28; v. 281; p. 682.

Rolling-stock, Apparatus for dismembering and assembling. J. A. Earley and J. L. Humphrey. No. 1,341,501; May 25; v. 274; p. 743.

Roof. C. A. Statler. No. 1,338,262; Apr. 27; v. 273; p. 689.

Roof. C. A. Statler. No. 1,362,755; Dec. 21; v. 281; p. 450.

Roof. C. K. Weiss. No 1,354,360; Sept. 28; v. 278; p. 661.

Roof and tiles therefor. J. de S. Freund. No. 1,329,657; Feb. 3; v. 271; p. 58.

Roof arch, Trussed-. A. Mecham. No. 1,346,229; July 13; v. 276; p. 239.

Roof attachment. J. H. Lord. No. 1,349,894; Aug. 17; v. 277; p. 469.

Roof-bracket. P. P. Melanson. No. 1,340,492; May 18; v. 274; p. 479.

Roof-bracket, Adjustable. J. B. F. Showalter. No. 1,341,597; May 25; v. 274; p. 762.

Roof-covering. T. McConnell. No. 1,358,863; Nov. 16; v. 280; p. 432.

Roof-covering. F. C. Overbury. No. 1,345,627; July 6; v. 276; p. 58.

Roof, Detachable. E. W. Test. No. 1,343,291; June 15; v. 275; p. 445.

Roof-drain and sediment-cup, Double-drainage. J. Hirshstein. No. 1,348,945; Aug. 10; v. 277; p. 210.

Roof-edging. J. C. Norton. No. 1,327,770; Jan. 13; v. 270; p. 228.

Roof-flange, Adjustable. M. J. McHale. No. 1,332,224; Mar. 2; v. 272; p. 9.

Roof-flashing, Pipe. E. McCaffrey. No. 1,334,386; Mar. 23; v. 272; p. 576.

Roof for buildings. R. Wright. No. 1,336,118; Apr. 6; v. 273; p. 79.

Roof-framing tool, Combination. H. W. Scott. No. 1,342,232; June 1; v. 275; p. 122.

Roof-gutter or eaves-trough. C. G. Marberg. No. 1,343,461; June 15; v. 275; p. 478.

Roof ladder and bracket, Combinational. H. Grush. No. 1,363,804; Dec. 28; v. 281; p. 706.

Roof-peak. O. O. Hayes. No. 1,347,541; July 272; v. 276; p. 614.

Digitized by Google

Alphabetical list of inventions—Continued.

Roof-props, Apparatus for mining. E. C. Morgan. No. 1,330,743; Feb. 10; v. 271; p. 292.
Roof-strap and rivet-cleat, Combination. H. C. Bunting. No. 1,362,557; Dec. 14; v. 281; p. 360.
Roof structure. W. F. Ballinger and C. H. Shivers. No. 1,347,669; July 27; v. 276; p. 639.
Roof-truss. H. W. Graves. No. 1,360,931; Nov. 30; v. 280; p. 948.
Roof-ventilator joint. C. C. Shipp. No. 1,336,590; Apr. 13; v. 273; p. 227.
Roofing. R. W. Blanton. No. 1,341,254; May 25; v. 274; p. 695.
Roofing. C. L. Keller. No. 1,348,498; Aug. 3; v. 277; p. 71.
Roofing. T. M. Scarff. No. 1,335,756; Apr. 6; v. 273; p. 10.
Roofing. R. Wright. No. 1,354,867; Oct. 5; v. 279; p. 84.
Roofing, Artificial stone for. C. B. Ayers. No. 1,335,038; Mar. 30; v. 272; p. 760.
Roofing, Bituminous. A. T. Cavey. No. 1,361,517; Dec. 7; v. 281; p. 109.
Roofing, Built-up. H. H. Robertson. No. 1,343,478; June 15; v. 275; p. 481.
Roofing, Cleat for securing and protecting sheet-. L. M. Ford. No. 1,348,858; Aug. 10; v. 277; p. 193.
Roofing, Composition. H. Abraham. No. 1,357,920; Nov. 2; v. 280; p. 137.
Roofing connection, Compensating expansion. W. B. Sharp. No. 1,334,178; Mar. 16; v. 272; p. 491.
Roofing element. C. E. Rahr. No. 1,340,347; May 18; v. 274; p. 451.
Roofing, Fastening device for. W. H. Woerheide. No. 1,357,265; Nov. 2; v. 280; p. 18.
Roofing-grit, Method and apparatus for treating. A. B. Cooke. No. 1,337,822; Apr. 20; v. 273; p. 536.
Roofing, Making prepared. O. A. Heppes and C. E. Rahr. No. 1,338,624; Apr. 27; v. 273; p. 756.
Roofing, Making prepared. W. F. McKay. No. 1,351,181; Aug. 31; v. 277; p. 826.
Roofing, Manufacturing prepared. S. M. Ford. No. 1,339,327; May 4; v. 274; p. 125.
Roofing material and preparing same. H. L. Wilber. No. 1,348,259; Aug. 3; v. 277; p. 26.
Roofing material, Producing. S. H. Goldberg. No. 1,345,922; July 6; v. 276; p. 117.
Roofing material, Securing means for fabric. J. R. McCord, Jr. No. 1,356,930; Oct. 26; v. 279; p. 627.
Roofing, Metallic. A. Perrusi. No. 1,330,493; Feb. 10; v. 271; p. 246.
Roofing or sheathing, Nail-proof wire-woven. R. E. Moist. No. 1,362,887; Dec. 21; v. 281; p. 476.
Roofing-plates, Sheet-metal. H. E. Moomaw. No. 1,329,794; Feb. 3; v. 271; p. 83.
Roofing purposes, Sheet material adapted for saturation for. A. L. Clapp. No. 1,362,850; Dec. 21; v. 281; p. 469.
Roofing-sheets, Apparatus for cutting. A. S. Speer. No. 1,352,154; Sept. 7; v. 278; p. 85.
Roofing-strips, Forming. F. C. Overbury. No. 1,345,099; June 29; v. 275; p. 928.
Rope-hook. O. L. Giffin. No. 1,361,249; Dec. 7; v. 281; p. 53.
Rope-measuring machine. C. H. Burrows. No. 1,362,843; Dec. 21; v. 281; p. 467.
Roost, Poultry-. O. N. and N. T. Ausen. No. 1,358,608; Nov. 9; v. 280; p. 335.
Roost, Poultry-. J. E. Warrington. No. 1,328,861; Jan. 27; v. 270; p. 499.
Roost, Poultry-. H. Windahl. No. 1,351,456; Aug. 31; v. 277; p. 882.
Roost, Sanitary chicken-. H. Windahl. No. 1,349,031; Aug. 10; v. 277; p. 226.
Roots, Machine for unearthing and gathering. A. Müllertz. No. 1,347,962; July 27; v. 276; p. 698.
Rope. N. E. Sherwood. No. 1,331,679; Feb. 24; v. 271; p. 557.
Rope and cable attachment. T. C. Moore. No. 1,340,730; May 18; v. 274; p. 524.
Rope and cord fastener. L. W. Bauer and J. E. Davis. No. 1,333,375; Mar. 9; v. 272; p. 279.
Rope-blocks, Attachment for. O. Crosby. No. 1,347,211; July 20; v. 276; p. 492.
Rope-clamp. A. D. Lightner. No. 1,343,177; June 8; v. 275; p. 360.
Rope-clamp. S. Nilson. No. 1,336,482; Apr. 13; v. 273; p. 206.
Rope fastener, Anchor-. S. L. Kuntz. No. 1,347,339; July 20; v. 276; p. 518.
Rope-making, Spreader for. W. H. Spencer. No. 1,343,854; June 15; v. 275; p. 557.
Rope, Manufacture of wire. G. Pyburn. No. 1,341,003; May 25; v. 274; p. 647.
Rope or strap quick attaching and detaching device. L. Dussart. No. 1,333,582; Mar. 9; v. 272; p. 318.
Rope, Ornamental. C. A. Reed. No. 1,346,462; July 13; v. 276; p. 286.
Rope reel, Grass-. C. F. Hays. No. 1,329,240; Jan. 27; v. 270; p. 570.
Rope-teasing mechanism. J. W. and H. A. Bore. No. 1,360,875; Nov. 30; v. 280; p. 988.
Rope, Wire. G. C. Moon. No. 1,348,033; July 27; v. 276; p. 713.
Ropes, Means for returning hay-hoisting. W. J. Witt. No. 1,330,670; Feb. 10; v. 271; p. 279.
Rotaries, Attachment for. H. G. Johnston. No. 1,347,379; July 20; v. 276; p. 525.
Rotary circuit-interrupter. H. O. Putt. No. 1,341,020; May 25; v. 274; p. 650.
Rotary clutch and transmission mechanism, Gearless. O. C. Skinner. No. 1,349,229; Aug. 10; v. 277; p. 266.
Rotary compressed-air engine. D. Dobbins. No. 1,347,500; July 27; v. 276; p. 606.
Rotary compression-machine. W. Majewski. No. 1,345,208; June 29; v. 275; p. 949.
Rotary cutter. F. S. McQueston. No. 1,332,736; Mar. 2; v. 272; p. 107.
Rotary device, Manually-operated. F. W. Drews. No. 1,340,026 May 11; v. 274; p. 333.
Rotary-draft furnace, Forced. J. Gaskill. No. 1,357,494; Nov. 2; v. 280; p. 55.
Rotary drier. W. M. Schwartz. No. 1,345,260; June 29; v. 275; p. 959.
Rotary drill. J. C. Lewis. No. 1,348,815; Aug. 3; v. v. 277; p. 131.
Rotary engine. P. Arrighi. No. 1,353,374; Sept. 21; v. 278; p. 419.
Rotary engine. A. J. Bolfing. No. 1,336,997; Apr. 13; v. 273; p. 305.
Rotary engine. A. Brauer. No. 1,363,389; Dec. 21; v. 281; p. 613.
Rotary engine. J. D. Carroll. No. 1,342,496; June 8; v. 275; p. 225.
Rotary engine. F. L. Caut. No. 1,331,485; Feb. 24; v. 271; p. 520.
Rotary engine. M. Cooper. No. 1,332,427; Mar. 2; v. 272; p. 49.
Rotary engine. G. E. Current. No. 1,343,115; June 8; v. 275; p. 348.
Rotary engine. H. M. Gillespie. No. 1,330,257; Feb. 10; v. 271; p. 202.
Rotary engine. F. Girardi. No. 1,333,615; Mar. 16; v. 272; p. 385.
Rotary engine. F. E. Glaze. No. 1,337,218; Apr. 20; v. 273; p. 421.
Rotary engine. A. J. Henig and J. E. Titus. No. 1,332,468; Mar. 2; v. 272; p. 56.
Rotary engine. P. D. Hibner. No. 1,345,773; July 6; v. 276; p. 88.
Rotary engine. W. A. Homan. No. 1,349,882; Aug. 17; v. 277; p. 466.
Rotary engine. C. Q. Jefferies. No. 1,338,304; Apr. 27; v. 273; p. 697.
Rotary engine. S. E. Kochendarfer. No. 1,344,137; June 22; v. 275; p. 676.
Rotary engine. G. A. Long. No. 1,334,252; Mar. 16; v. 272; p. 504.
Rotary engine. E. Luebeck. No. 1,363,256; Dec. 28; v. 281; p. 588.
Rotary engine. A. McDonald. No. 1,341,332; May 25; v. 274; p. 710.
Rotary engine. E. A. Miller. No. 1,343,331; June 15; v. 275; p. 453.
Rotary engine. C. Mulinex. No. 1,350,168; Aug. 17; v. 277; p. 521.
Rotary engine. J. G. Porter. No. 1,347,709; July 27; v. 276; p. 648.
Rotary engine. J. P. Shepard. No. 1,332,522; Mar. 2; v. 272; p. 67.
Rotary engine. E. A. Stewart. No. 1,332,367; Mar. 2; v. 272; p. 37.
Rotary engine. J. Theemling. No. 1,327,575; Jan. 6; v. 270; p. 130.
Rotary engine. W. J. Van Osdel. No. 1,351,933; Sept. 7; v. 278; p. 44.
Rotary engine. H. L. Weed. No. 1,328,410; Jan. 20; v. 270; p. 385.
Rotary engine. H. L. Weed. No. 1,348,675; Aug. 3; v. 277; p. 106.
Rotary engine. O. H. Wilbur, Jr. No. 1,349,353; Aug. 10; v. 277; p. 290.
Rotary engine, compressor, and exhauster. W. Reavell and H. Haerle. No. 1,345,955; July 6; v. 276; p. 124.
Rotary filter-table. E. L. Oliver. No. 1,335,695; Mar. 30; v. 272; p. 882.
Rotary gas-engine. A. M. Le Pierre. No. 1,363,423; Dec. 28; v. 281; p. 619.
Rotary internal-combustion engine. J. H. Bair. No. 1,331,478; Feb. 24; v. 271; p. 519.
Rotary internal-combustion engine. J. W. George. No. 1,348,103; July 27; v. 276; p. 726.
Rotary internal-combustion engine. M. Klay. No. 1,349,512; Aug. 10; v. 277; p. 322.
Rotary internal-combustion engine. W. H. Woodward. No. 1,353,205; Sept. 21; v. 278; p. 386.
Rotary kiln. A. Larsen. No. 1,358,759; Nov. 16; v. 280; p. 411.
Rotary kiln. A. Larsen. No. 1,358,760; Nov. 16; v. 280; p. 411.
Rotary kiln. A. Larsen. No. 1,358,761; Nov. 16; v. 280; p. 411.
Rotary Kiln. A. E. Truesdale and L. F. Phillips. No. 1,350,750; Aug. 24; v. 277; p. 682.
Rotary machine. B. R. Planche. No. 1,340,625; May 18; v. 274; p. 504.

Digitized by Google

Rotary machine. E. Wittig. No. 1,364,014; Dec. 28; v. 281; p. 784.
Rotary mechanism. A. E. Horman. No. 1,344,085; June 22; v. 275; p. 666.
Rotary-motion mechanism. A. Martinoicz. No. 1,350,106; Aug. 17; v. 277; p. 509.
Rotary motor. L. D. Epperson. No. 1,350,795; Aug. 24; v. 277; p. 690.
Rotary motor. W. L. McFarland. No. 1,350,231; Aug. 17; v. 277; p. 533.
Rotary motor actuated by alternating fluid-currents. G. Constantinesco. No. 1,334,291; Mar. 23; v. 272; p. 558.
Rotary motor, Fluid-actuated. E. Mainguet. No. 1,362,722; Dec. 21; v. 281; p. 444.
Rotary power device. E. H. Gollings. No. 1,341,836; June 1; v. 275; p. 46.
Rotary power device. E. H. Gollings. No. 1,361,046; Dec. 7; v. 281; p. 13.
Rotary pump. W. B. Campbell. No. 1,363,716; Dec. 28; v. 281; p. 676.
Rotary reciprocating drill. R. Binnie. No. 1,362,387; Dec. 14; v. 281; p. 327.
Rotary screen. A. C. Gough. No. 1,360,929; Nov. 30; v. 280; p. 948.
Rotary snap-switch. C. D. Platt. No. 1,351,124; Aug. 31; v. 277; p. 815.
Rotary stamping device. J. Mercy. No. 1,356,386; Oct. 19; v. 279; p. 474.
Rotary switch. T. Ammann. No. 1,353,820; Sept. 28; v. 278; p. 551.
Rotary switch, Thermostatically-controlled. R. D. Smith. No. 1,334,181; Mar. 16; v. 272; p. 491.
Rotation, Manufacture of devices for relative. C. Pack. No. 1,363,344; Dec. 28; v. 281; p. 605.
Rotor, Self-propelled. S. W. Neldner. No. 1,330,896; Feb. 17; v. 271; p. 390.
Rouge, Apparatus for manufacturing. C. L. Waisner. No. 1,357,664; Nov. 2; v. 280; p. 87.
Rouge-holder. J. D. McFarland. No. 1,362,808; Dec. 21; v. 821; p. 461.
Roulette, Spiral. E. Schoenheit. No. 1,334,174; Mar. 16; v. 272; p. 490.
Round-top work. J. Ruoff. No. 1,337,485; Apr. 20; v. 273; p. 472.
Router and boring mechanism, Rotary. F. W. Britton. No. 1,329,501; Feb. 3; v. 271; p. 30.
Routes and locations on highways, Method of and means for determining. J. L. Steffen. No. 1,334,120; Mar. 16; v. 272; p. 480.
Routing-cutter. J. Stelmach. No. 1,359,765; Nov. 23; v. 280; p. 652.
Routing-machine attachment. V. Royle. No. 1,353,497; Sept. 21; v. 278; p. 443.
Roving-frames, Bobbin-holder for. A. D. Ramsay. No. 1,335,193; Mar. 30; v. 272; p. 789.
Rowlock-holder. J. B. Church. No. 1,329,579; Feb. 3; v. 271; p. 44.
Rubber and fabric cycle saddle-tops, Producing composite. J. Jelley. No. 1,358,957; Nov. 16; v. 280; p. 450.
Rubber and fibrous material, Apparatus for forming composite bodies of. H. L. Boyer. No. 1,330,976; Feb. 17; v. 271; p. 406.
Rubber and making same, Apparatus for vulcanizing. W. B. Burke. No. 1,339,736; May 11; v. 274; p. 279.
Rubber and product obtained thereby, Vulcanizing. I. Ostromislensky. No. 1,342,457; June 8; v. 275; p. 218.
Rubber and product obtained thereby, Vulcanizing. I. Ostromislensky. No. 1,342,458; June 8; v. 275; p. 218.
Rubber and similar material, Machine for treating. D. R. Bowen and C. F. Schmuck. No. 1,355,305; Oct. 12; v. 279; p. 223.
Rubber and similar material, Machine for treating. D. R. Bowen and C. F. Schnuck. No. 1,358,702; Nov. 16; v. 280; p. 399.
Rubber and similar materials, Machine for treating. D. R. Bowen and C. F. Schnuck. No. 1,354,452; Sept. 28; v. 278; p. 680.
Rubber, Apparatus for forming hollow articles of. F. A. Cigol. No. 1,358,289; Nov. 9; v. 280; p. 270.
Rubber article and making same, Sponge-. J. B. Wishart. No. 1,345,904; July 6; v. 276; p. 114.
Rubber articles and making same, Material for reinforcing. R. F. Kinsley. No. 1,343,368; June 15; v. 275; p. 461.
Rubber articles, Expansible core for india-. C. G. A. Bäckdahl. No. 1,354,459; Sept. 28; v. 278; p. 681.
Rubber articles, Machine for making sheet-. R. A. Freeman. No. 1,340,884; May 25; v. 274; p. 624.
Rubber articles, Making hollow. F. T. Roberts. No. 1,346,848; July 20; v. 276; p. 420.
Rubber articles, Method and machine for removing air from. T. Midgley. No. 1,335,124; Mar. 30; v. 272; p. 776.
Rubber articles, Method of and apparatus for making. R. A. Freeman. No. 1,340,883; May 25; v. 274; p. 623.
Rubber articles, Method of making hollow. F. T. Roberts. No. 1,362,640; Dec. 21; v. 281; p. 428.
Rubber articles, Mold for making. F. T. Roberts. No. 1,329,312; Jan. 27; v. 270; p. 583.
Rubber articles, Patch material for. C. F. Young. No. 1,333,196; Mar. 9; v. 272; p. 245.
Rubber articles, Removing fins from. R. Rothwell and W. H. Cuttrell. No. 1,339,789; May 11; v. 274; p. 289.
Rubber articles, such as combs, &c., Marking hard-. J. Reardon. No. 1,359,919; Nov. 23; v. 280; p. 682.
Rubber, Artificial. E. E. Cathcart. No. 1,335,657; Mar. 30; v. 272; p. 875.
Rubber ball. G. M. Tatum. No. 1,346,991; July 20; v. 276; p. 450.
Rubber biscuit, Process and apparatus for producing a hollow. H. Z. Cobb. No. 1,349,560; Aug. 17; v. 277; p. 404.
Rubber-coated textures, Machine for the production of. A. Boecler. No. 1,358,614; Nov. 9; v. 280; p. 336.
Rubber composition and production thereof. E. M. Slocum. No. 1,332,926; Mar. 9; v. 272; p. 195.
Rubber-dam-clamp appliance. J. W. Ivory. No. 1,336,746; Apr. 13; v. 273; p. 257.
Rubber-extruding machines, Adjustable die for. D. E. Goodenberger. No. 1,350,722; Aug. 24; v. 277; p. 676.
Rubber fabric. J. M. Ogilvie. No. 1,356,783; Oct. 26; v. 279; p. 598.
Rubber footwear and manufacturing same. J. M. Rice, F. A. Joseph, and A. D. Rupp. No. 1,349,926; Aug. 10; v. 277; p. 279.
Rubber footwear, Manufacture of. L. A. Casgrain. No. 1,363,308; Dec. 28; v. 281; p. 598.
Rubber footwear, Repair-patch for. J. Robertson, Jr. No. 1,354,846; Oct. 5; v. 279; p. 80.
Rubber from armored hose, Apparatus for recovering. C. F. Erb. No. 1,349,752; Aug. 17; v. 277; p. 442.
Rubber goods embodying a foundation fabric, Treatment of vulcanized india-. Wm. E. Muntz. No. 1,354,123; Sept. 28; v. 278; p. 614.
Rubber heel. H. L. Beal. No. 1,364,023; Dec. 28; v. 281; p. 736.
Rubber hose. H. C. Egerton. No. 1,352,740; Sept. 14; v. 278; p. 235.
Rubber hose from sticking during manufacture, Preventing the inner walls of. F. C. Moore. No. 1,344,143; June 22; v. 275; p. 677.
Rubber hose, Machine for trimming. F. C. Moore. No. 1,330,383; Feb. 10; v. 271; p. 225.
Rubber, Machine for treating. D. R. Bowen and C. F. Schnuck. No. 1,357,948; Nov. 9; v. 280; p. 204.
Rubber, Making articles from sheet-. R. A. Freeman. No. 1,340,882; May 25; v. 274; p. 623.
Rubber manufacture and process of manufacture, Material used in. J. C. Burdette. No. 1,363,229; Dec. 28; v. 281; p. 583.
Rubber, Manufacture of articles of. H. A. Woofter. No. 1,355,206; Oct. 12; v. 279; p. 203.
Rubber mats, Machine for trimming. W. J. Kent. No. 1,359,072; Nov. 16; v. 280; p. 471.
Rubber, Method and apparatus for treating. E. A. Wullenweber. No. 1,337,536; Apr. 20; v. 273; p. 482.
Rubber-mills and like machines, Guard for. L. Gaisman. No. 1,341,422; May 25; v. 274; p. 728.
Rubber-mixer. D. R. Bowen and C. F. Schnuck. No. 1,355,885; Oct. 19; v. 279; p. 375.
Rubber-mixer. D. R. Bowen and C. F. Schnuck. No. 1,356,691; Oct. 26; v. 279; p. 580.
Rubber-mixer. D. R. Bowen and C. F. Schnuck. No. 1,357,217; Nov. 2; v. 280; p. 4.
Rubber mixing, grinding, sheeting, and similar mills. F. Iddon. No. 1,342,114; June 1; v. 275; p. 99.
Rubber-mixing mills, Attachment for. H. A. Welton. No. 1,345,426; July 6; v. 276; p. 20.
Rubber-mold. H. F. Maranville. No. 1,350,105; Aug. 17; v. 277; p. 509.
Rubber pads, Apparatus for inserting bristles in. W. T. Sherman. No. 1,355,278; Oct. 12; v. 279; p. 217.
Rubber product and composition. J. M. Weiss. No. 1,334,060; Mar. 16; v. 272; p. 469.
Rubber, Reclaiming. D. F. Twiss. No. 1,335,926; Apr. 6; v. 273; p. 42.
Rubber rings or cylinders, Means for use in the insertion of rigid fittings within. F. Heaton. No. 1,362,306; Dec 14; v. 281; p. 312.
Rubber-set riffle. J. Horn. No. 1,351,250; Aug. 31; v. 277; p. 841.
Rubber sole. F. Hornquist. No. 1,351,291; Aug. 31; v. 277; p. 849.
Rubber substitute and producing same. H. H. Haseltine and M. Gregory. No. 1,360,744; Nov. 30; v. 280; p. 913.
Rubber, Testing device for determining the viscosity of. R. B. Naylor. No. 1,327,838; Jan. 13; v. 270; p. 240.
Rubber, Treatment of raw. J. V. Worthington and A. W. T. Hyde. No. 1,360,486; Nov. 30; v. 280; p. 862.
Rubber-trees, Utilization of bark-shavings from. A. H. Claessen. No. 1,357,845; Nov. 2; v. 280; p. 123.
Rubber tubes, Beveling device for. A. E. Falor and F. J. MacDonald. No. 1,363,462; Dec. 28; v. 281; p. 627.
Rubber-tubing-closing device. E. O'Connor. No. 1,361,770; Dec. 7; v. 281; p. 158.
Rubber vulcanization and the products thereof. S. B. Malony. No. 1,343,224; June 15; v. 275; p. 433.
Rubber, Vulcanizing. W. A. Gibbons. No. 1,350,798; Aug. 24; v. 277; p. 691.
Rubber, Vulcanizing. E. E. A. G. Meyer. No. 1,350,824; Aug. 24; v. 277; p. 696.
Rubber waste, Apparatus for reclaiming. F. L. Kryder. No. 1,340,776; May 18; v. 274; p. 532.
Rubber waste, Reclaiming and regenerating. F. L. Kryder. No. 1,340,777; May 18; v. 274; p. 533.

Digitized by Google

Alphabetical list of inventions—Continued.

Rudder. W. N. Davis. No. 1,363,961; Dec. 28; v. 281; p. 724.
Rudder, Balanced. A. McNaught. No. 1,358,087; Nov. 9; v. 280; p. 231.
Rudder-position indicator. C. Doviken. No. 1,344,622; June 29; v. 275; p. 887.
Rug. M. Feldman. No. 1,342,259; June 1; v. 275; p. 127.
Rug. L. L. Johnson. No. 1,331,927; Feb. 24; v. 271; p. 604.
Rug and fastening therefor, Traveling-. D. J. O'Leary. No. 1,335,524; Mar. 30; v. 272; p. 850.
Rug-drying device. R. J. Osborne. No. 1,339,784; May 11; v. 274; p. 288.
Rug-rolling machine. W. H. Lutz. No. 1,342,556; June 8; v. 275; p. 237.
Rugs and other fabrics, Weaving. V. P. Thewlis, D. G. Melville, and R. A. Taylor. No. 1,358,038; Nov. 9; v. 280; p. 221.
Rugs in dyeing same, Support for. W. E. Olson. No. 1,326,958; Jan. 6; v. 270; p. 15.
Rugs, Making. J. W. Henry. No. 1,361,055; Dec. 7; v. 281; p. 15.
Rule. M. H. Collins. No. 1,332,887; Mar. 9; v. 272; p. 187.
Rule. A. D. Laurent. No. 1,360,539; Nov. 30; v. 280; p. 872.
Rule. E. G. Rios. No. 1,338,962. May 4; v. 274; p. 57.
Rule and pencil holder, Combined. J. Benyei. No. 1,356,902; Oct. 26; v. 279; p. 621.
Rule and tool holder. H. Hanson. No. 1,335,333; Mar. 30; v. 272; p. 815.
Rule attachment. K. G. Thiman. No. 1,349,349; Aug. 10; v. 277; p. 290.
Rule, Caliper-. H. J. Ostdiek. No. 1,343,227; June 15; v. 275; p. 434.
Rule, Calipering-. K. E. Solberg. No. 1,341,865; June 1; v. 275; p. 50.
Rule, &c., Extensible. G. L. Finstrom. No. 1,338,176; Apr. 27; v. 273; p. 673.
Rule, Folding. C. W. Blodgie. No. 1,331,951; Feb. 24; v. 271; p. 609.
Rule for cutting roof-rafters. W. A. Winn. No. 1,343,604; June 15; v. 275; p. 507.
Rule-holder. H. A. Christian. No. 1,333,539; Mar. 9; v. 272; p. 310.
Rule-holder. A. Emerson. No. 1,363,765; Dec. 28; v. 281; p. 686.
Rule holder, Pocket-. J. E. Paulson and C. W. Almquist. No. 1,334,394; Mar. 23; v. 272; p. 577.
Rule, Linear counter-. P. G. Chamberlain. No. 1,339,644; May 11; x. 274; p. 262.
Rule, Perforating-. H. S. Miller. No. 1,351,002; Aug. 24; v. 277; p. 729.
Rule, Rolling perspective-. W. A. Moore. No. 1,348,655; Aug. 3; v. 277; p. 102.
Rule, Slide-. C. J. Davidson. No. 1,343,549; June 15; v. 275; p. 496.
Rule, Slide-. J. Hemmi. No. 1,329,902; Feb. 3; v. 271; p. 105.
Ruler. W. W. Eaton. No. 1,334,145; Mar. 16; v. 272; p. 485.
Ruler. W. J. Hahn. No. 1,343,968; June 22; v. 275; p. 644.
Ruler, Parallel-. H. A. Lund. No. 1,357,462; Nov. 2; v. 280; p. 49.
Rulers, Case for folding. J. H. Rutledge. No. 1,351,132; Aug. 31; v. 277; p. 817.
Ruling apparatus. A. Broadmeyer. No. 1,344,166; June 22; v. 275; p. 682.
Ruling-machine. F. Davis. No. 1,333,471; Mar. 9; v. 272; p. 297.
Rumble-mill. V. G. Becker. No. 1,331,789; Feb. 24; v. 271; p. 569.
Runner. P. P. Altland. No. 1,345,307; June 29; v. 275; p. 969.
Running-board structure. F. F. Reisinger. No. 1,343,281; June 15; v. 275; p. 443.
Running-board support. J. W. Applin. No. 1,359,480; Nov. 23; v. 280; p. 596.
Running-boards, Metallic structure for. W. J. Spirc No. 1,334,565; Mar. 23; v. 272; p. 610.
Rupture-pad. T. Pachali, Sr. No. 1,337,790; Apr. 20; v. 273; p. 530.
Rust preventing and arresting solution. W. H. Allen. No. 1,329,573; Feb. 3; v. 271; p. 43.
Rust-preventing composition. C. Schmid. No. 1,335,757; Apr. 6; v. 273; p. 10.
Rust-preventing solution and preparing same. W. Eisenhauer. No. 1,344,338; June 22; v. 275; p. 716.
Rust-preventing treatment. W. R. Swan. No. 1,346,473; July 13; v. 276; p. 288.
Rust-proofing compound. W. H. Allen. No. 1,341,100; May 25; v. 274; p. 666.
Rust-proofing process. E. P. Andrews. No. 1,362,213; Dec. 14; v. 281; p. 293.
Sack. G. Trolle-Bonde. No. 1,328,859; Jan. 27; v. 270; p. 498.
Sack, Catamenial. J. J. Martinka. No. 1,329,195; Jan. 27; v. 270; p. 562.
Sack-cleaning machines, Beater for. G. Royan. No. 1,335,198; Mar. 30; v. 272; p. 789.
Sack-fastener. F. Markwick. No. 1,351,958; Sept. 7; v. 278; p. 49.
Sack, Harvest-. J. W. Keith and R. W. Williams. No. 1,346,033; July 6; v. 276; p. 139.
Sack-holder. A. Buckel. No. 1,351,094; Aug. 31; v. 277; p. 809.
Sack-holder. E. J. M. Campen. No. 1,330,681; Feb. 10; v. 271; p. 281.
Sack-holder. E. Erickson. No. 1,338,126; Apr. 27; v. 273; p. 663.
Sack-holder. R. I. McNaughton. No. 1,329,985; Feb. 3; v. 271; p. 120.
Sack-holder. A. L. Renfro. No. 1,328,690; Jan. 20; v. 270; p. 487.
Sack, Serviette or catamenial. S. Bottomley. No. 1,332,597; Mar. 2; v. 272; p. 81.
Sack-tying device, Operating mechanism for. A. Stroner. No. 1,335,263; Mar. 30; v. 272; p. 801.
Saddle and shock-absorber, Spring-. C. M. Mohler. No. 1,360,135; Nov. 23; v. 280; p. 725.
Saddle block-plate. E. E. Crane. No. 1,359,335; Nov. 16; v. 280; p. 522.
Saddle-cantle machine. W. S. Overlin. No. 1,357,203; Oct. 26; v. 279; p. 680.
Saddle, Cart-. J. C. Jardine, J. Dickie, and G. A. Bowness. No. 1,328,922; Jan. 27; v. 270; p. 511.
Saddle for mains. G. P. Wartchow. No. 1,354,359; Sept. 28; v. 278; p. 661.
Saddle, Running-board. D. W. Hawksworth. No. 1,338,728; May 4; v. 274; p. 15.
Saddle-spring support. T. J. Condon. No. 1,344,382; June 22; v. 275; p. 724.
Saddle-spring support. A. Joel. No. 1,358,315; Nov. 9; v. 280; p. 276.
Sadiron. M. Brown. No. 1,345,989; July 6; v. 276; p. 131.
Sadiron. S. Elman. No. 1,349,052; Aug. 10; v. 277; p. 230.
Sadiron. N. Rubenstein. No. 1,328,766; Jan. 20; v. 270; p. 451.
Sadiron. O. Spahr. No. 1,340,257; May 18; v. 274; p. 434.
Sadiron, Electric. F. Lowenstein. No. 1,333,722; Mar. 16; v. 272; p. 405.
Sadiron, Electric. E. Miller. No. 1,351,054; Aug. 31; v. 277; p. 802.
Sadiron, Electric. J. P. Nikonow. No. 1,342,864; June 8; v. 275; p. 299.
Sadiron, Electric. F. Thornton, Jr. No. 1,344,741; June 29; v. 275; p. 860.
Sadiron-holder. W. H. Hawkes. No. 1,332,039; Feb. 24; v. 271; p. 626.
Sadiron, Self-propelled. A. M. Holtzman. No. 1,331,107; Feb. 17; v. 271; p. 480.
Sadiron-support. H. L. Galbraith. No. 1,355,326; Oct. 12; v. 279; p. 227.
Safe. M. Garfinkel. No. 1,347,693; July 27; v. 276; p. 645.
Safe. A. H. Gernsbacher. No. 1,341,899; June 1; v. 275; p. 56.
Safe. B. F. Greer. No. 1,356,981; Oct. 26; v. 279; p. 637.
Safe. M. Mosler and C. Bartels. No. 1,347,118; July 20; v. 276; p. 474.
Safe-closer, Automatic. E. G. Leon. No. 1,348,017; July 27; v. 276; p. 709.
Safe-door trap. A. K. Winter. (Reissue.) No. 14,840; Apr. 13; v. 273; p. 341.
Safe, Drip-water. J. J. Hickey. No. 1,342,287; June 1; v. 275; p. 132.
Safe, Jewel wrist-. M. S. Zeitler and W. S. Lloyd. No. 1,352,863; Sept. 14; v. 278; p. 260.
Safe-lock. J. Boryk. No. 1,337,386; Apr. 20; v. 273; p. 453.
Safe-lock. W. J. B. Harris. No. 1,337,554; Apr. 20; v. 273; p. 485.
Safe-lock, Auxiliary. A. S. Ailes. No. 1,350,766; Aug. 24; v. 277; p. 685.
Safe or cabinet, Heat-resisting. R. H. Dick and C. F. Wolters. No. 1,336,347; Apr. 6; v. 273; p. 121.
Safe or cabinet, Heat-resisting. R. H. Dick, C. F. Wolters, and R. B. Sutter. No. 1,350,363; Aug. 24; v. 277; p. 605.
Safes, Anchoring device for. K. Mamiya. No. 1,352,906; Sept. 14; v. 278; p. 268.
Safety attachment. M. F. Fisher. No. 1,332,328; Mar. 2; v. 272; p. 29.
Safety-brake. A. Dagosteno. No. 1,343,116; June 8; v. 275; p. 348.
Safety-catch for jewelry. J. J. White. No. 1,362,656; Dec. 21; v. 281; p. 431.
Safety control mechanism. W. C. Dyer. No. 1,360,508; Nov. 30; v. 280; p. 867.
Safety cranking device. C. T. Custer. No. 1,360,190; Nov. 23; v. 280; p. 736.
Safety-deposit box, Household. C. M. Cott. No. 1,340,377; May 18; v. 274; p. 457.
Safety device. R. A. Bachman and C. W. Norton. No. 1,331,795; Feb. 24; v. 271; p. 579.
Safety device. C. W. Hobbs. No. 1,345,442; July 6; v. 276; p. 22.

Digitized by Google

Safety device. W. F. Purcell. No. 1,338,867; May 4; v. 274; p. 40.
Safety door interlocking switch. R. L. De Camp. No. 1,356,698; Oct. 26; v. 279; p. 582.
Safety-fender. A. Loscalzo. No. 1,352,757; Sept. 14; v. 278; p. 238.
Safety-fuse. J. J. Rooney. No. 1,362,741; Dec. 21; v. 281; p. 447.
Safety-gate. G. F. Winter. No. 1,347,198; July 20; v. 276; p. 489.
Safety-guard and leveling device. L. L. Whitney. No. 1,355,295; Oct. 12; v. 279; p. 221.
Safety-hanger, Brake-beam. J. C. Hanks. No. 1,327,909; Jan. 13; v. 270; p. 254.
Safety-holder. A. W. Dalhaus. No. 1,357,151; Oct. 26; v. 279; p. 670.
Safety-lock. J. B. Malys. No. 1,337,085; Apr. 13; v. 273; p. 322.
Safety operating mecharism. H. De Smith. No. 1,354,895; Oct. 5; v. 279; p. 89.
Safety panel-box. H. F. Krantz. No. 1,342,545; June 8; v. 275; p. 235.
Safety-pin. F. E. Bartlett. No. 1,334,277; Mar. 23; v. 272; p. 555.
Safety-pin. H. S. Dolbey. No 1,354,094; Sept. 28; v. 278; p. 608.
Safety-pin. S. H. Goldberg. No. 1,348,865; Aug. 10; v. 277; p. 194.
Safety-pin. E. S. Ralph. No. 1,360,794; Nov. 30; v. 280; p. 923.
Safety-pin. R. Schramm. No. 1,331,943; Feb. 24; v. 271; p. 607.
Safety-pin. W. E. Tiencken. No. 1,353,093; Sept. 14; v. 278; p. 304.
Safety-pocket attachment. A. H. Barber. No. 1,362,916; Dec. 21; v. 281; p. 481.
Safety-signal. F. A. Cox. No. 1,362,234; Dec. 14; v. 281; p. 297.
Safety-stopper. J. Mohn. No. 1,363,804; Dec. 28; v. 281; p. 694.
Safety-switch, Instantaneous. M. Bukovecz. No. 1,349,184; Aug. 10; v. 277; p. 257.
Safety-switch, Double-throw. L. Kellner. No. 1,354,764; Oct. 5; v. 279; p. 63.
Safety train-stop mechanism. J. W. Bingley. No. 1,363,557; Dec. 28; v. 281; p. 646.
Safety-trap. A. M. Khun. No. 1,356,530; Oct. 26; v. 279; p. 549.
Safety-zone indicator. S. H. Shackelford. No. 1,343,524; June 15; v. 275; p. 491.
Sag-gate, Adjustable. J. R. Wright. No. 1,341,963; Juue 1; v. 275; p. 69.
Saggars, Method of and means for producing. F. J. Wolff. No. 1,337,871; Apr. 20; v. 273; p. 545.
Sail, Boat-. W. C. Ward. No. 1,348,912; Aug. 10; v. 277; p. 203.
Sailing apparatus, Roundabout. A. Kitterman. No. 1,357,995; Nov. 9; v. 280; p. 213.
Sailboat. J. H. Hart. No. 1,336,226; Apr. 6; v. 273; p. 98.
Sal ammoniac, Metamorphous. C. Pfanstiehl. No. 1,337,665; Apr. 20; v. 273; p. 506.
Salad-dressing. H. Jaeger and W. Kuenzler. No. 1,354,563; Oct. 5; v. 279; p. 23.
Sales-slip. W. H. Bruen. No. 1,361,009; Dec. 7; v. 281; p. 6.
Salesman's portable office. H. H. Geary. No. 1,353,580; Sept. 21; v. 278; p. 450.
Saliva-ejector. G. D. Heck. No. 1,353,587; Sept. 21; v. 278; p. 462.
Salt and pepper box. W. R. Elliot. No. 1,349,716; Aug. 17; v. 277; p. 435.
Salt and pepper shaker. R. Anderson. No. 1,351,602; Aug. 31; v. 277; p. 911.
Salt and pepper shaker. C. Jorgensen. No. 1,323,568; Jan. 20; v. 270; p. 415.
Salt and pepper shaker, Combined. C. Lowry. No. 1,331,444; Feb. 17; v. 271; p. 492.
Salt and pepper shaker, Combined. O. M. Vogel. No. 1,349,795; Aug. 17; v. 277; p. 450.
Salt blocks, Press for. H. D. Orley. No. 1,336,579; Apr. 13; v. 273; p. 225.
Salt, Manufacture of table-. C. Dietz. No. 1,362,087; Dec. 14; v. 281; p. 268.
Salt, Method of and apparatus for producing purified. F. G. Wheeler. No. 1,342,519; June 8; v. 275; p. 230.
Salt, Phenylcinchonic-acid. M. E. Wolvekamp. No. 1,361,128; Dec. 7; v. 281; p. 29.
Salt, Purifying. F. J. Wood. No. 1,346,624; July 13; v. 276; p. 317.
Salts and borax, Recovery of potassium. K. J. Jacobi. No. 1,349,134; Aug. 10; v. 277; p. 246.
Salts and preparing same, Solution of titanium and iron. H. Olsen and T. R. Förland. No. 1,333,849; Mar. 16; v. 272; p. 429.
Salts from liquids containing same, Obtaining potassium. G. B. Burnham. No. 1,328,416; Jan. 20; v. 270; p. 386.
Salts from potassium-bearing minerals, Extracting potassium. A. C. Auden. No. 1,334,940; Mar. 23; v. 272; p. 682.
Salts from saline waters, Obtaining potassium. G. B. Burnham. No. 1,328,417; Jan. 20; v. 270; p. 386.
Salts, Making arsenical. W. Thum, J. J. Mulligan, and H. M. Schleicher. No. 1,356,569; Oct. 26; v. 279; p. 556.
Salts of the N-methyl-hexamethenetetramin. R. Tschunke. No. 1,336,709; Apr. 13; v. 273; p. 250.
Salts, Recovery of potassium. P. C. McIlhiney. No. 1,338,234; Apr. 27; v. 273; p. 684.
Salts, Recovery of potassium. P. C. McIlhiney. No. 1,338,235; Apr. 27; v. 273; p. 684.
Salts, Recovery or purification of potassium. W. Hirschkind. No. 1,343,508; June 15; v. 275; p. 487.
Salting-machine. P. W. Mackenrot. No. 1,339,212; May 4; v. 274; p. 104.
Saltcellar. E. B. Sweetser. No. 1,352,701; Sept. 14; v. 278; p. 227.
Salvaging-apparatus. H. D. Deam. No. 1,332,433; Mar. 2; v. 272; p. 50.
Salvaging apparatus. H. D. Deam. No. 1,332,889; Mar. 9; v. 272; p. 188.
Salvaging apparatus. H. D. Deam. No. 1,338,816; May 4; v. 274; p. 81.
Salvaging apparatus. C. Sanger. No. 1,339,717; May 11; v. 274; p. 276.
Sample-affixing machine. W. P. Dun Lany. No. 1,327,664; Jan. 13; v. 270; p. 208.
Sample-carrier. J. N. Kory. No. 1,328,167; Jan. 13; v. 270; p. 302.
Sample-holder or samplegraph. J. A. McCrimmon. No. 1,331,073; Feb. 17; v. 271; p. 425.
Sample-taking device. S. H. Huston. No. 1,342,814; June 8; v. 275; p. 289.
Sample-taking device. W. E. Rembert. No. 1,336,537; Apr. 13; v. 273; p. 217.
Sampler. J. Stonebreaker. No. 1,333,191; Mar. 9; v. 272; p. 244.
Sampler, Automatic. S. E. Cogswell. No. 1,329,110; Jan. 27; v. 270; p. 546.
Sampling. R. E. Carmichael. No. 1,346,939; July 20; v. 276; p. 439.
Sampling device. H. E. McCoy and F. J. Tarr. No. 1,336,250; Apr. 6; v. 273; p. 103.
Sampling-jar. C. E. Bauermeister. No. 1,337,034; Apr. 13; v. 273; p. 313.
Sand and slime separator. J. D. McDonald. No. 1,350,509; Aug. 24; v. 277; p. 635.
Sand-blast machine. C. F. Mots. No. 1,351,581; Aug. 31; v. 277; p. 907.
Sand-box. J. H. Wonser. No. 1,349,704; Aug. 17; v. 277; p. 432.
Sand core for molds for casting metals and manufacture of such cores. A. E. Outerbridge, Jr. (Reissue.) No. 14,828; Mar. 30; v. 272; p. 887.
Sand cores from hollow drill-rods by sand-blast, Removing. P. A. E. Armstrong. No. 1,359,563; Nov. 23; v. 280; p. 612.
Sand-cutter. W. S. Fitzgerald. No. 1,330,070; Feb. 10; v. 271; p. 167.
Sand cutting and screening mechanism. H. L. Wadsworth. No. 1,332,939; Mar. 9; v. 272; p. 197.
Sand-cutting machine. E. W. Burgess. No. 1,330,057; Feb. 10; v. 271; p. 165.
Sand-cutting machine. H. L. Wadsworth. No. 1,345,521; July 6; v. 276; p. 38.
Sand-cutting machine. H. L. Wadsworth. No. 1,349,988; Aug. 17; v. 277; p. 486.
Sand-distributing device. J. MacGregor. No. 1,363,185; Dec. 21; v. 281; p. 533.
Sand-drier. C. W. Hall. No. 1,337,220; Apr. 20; v. 273; p. 422.
Sand-drying plant. H. W. Nagel. No. 1,346,238; July 13; v. 276; p. 241.
Sand-loading device. G. Michno. No. 1,346,460; July 13; v. 276; p. 286.
Sand, Method of and apparatus for collecting and delivering. J. R. Sensibar. No. 1,337,279; Apr. 20; v. 273; p. 433.
Sand-mixing machine. R. C. Stokes. No. 1,337,373; Apr. 20; v. 273; p. 451.
Sand-pipes, Means for preventing clogging of. G. H. Johnson. No. 1,341,236; May 25; v. 274; p. 692.
Sand-reel support. M. R. Pontius and A. L. West. No. 1,348,734; Aug. 3; v. 277; p. 116.
Sand-reels, Mounting for. M. F. Tucker. No. 1,360,157; Nov. 23; v. 280; p. 730.
Sand-screen. H. S. Earle. No. 1,360,906; Nov. 30; v. 280; p. 944.
Sand-separating apparatus. H. L. Hamilton. No. 1,350,154; Aug. 17; v. 277; p. 519.
Sand-separator. W. O. Arzinger. No. 1,333,197; Mar. 9; v. 272; p. 245.
Sand-throw, Scouring apparatus with. G. C. Ory. No. 1,307,630; Jan. 13; v. 270; p. 201.
Sand-trap. P. Arbon. No. 1,327,583; Jan. 6; v. 270; p. 131.
Sand, Treating monazite. E. L. Knoedler. No. 1,361,735; Dec. 7; v. 281; p. 151.
Sands and their inherent metals, Mechanism for washing, sizing, and concentrating black. T. A. Rogers and J. E. Reid. No. 1,363,207; Dec. 21; v. 281; p. 538.

Digitized by Google

Alphabetical list of inventions—Continued.

Sanding device. M. Dandy. No. 1,349,606; Aug. 17; v. 277; p. 413.
Sanding device. F. W. Kallom and P. S. Toennesen. No. 1,351,760; Sept. 7; v. 278; p. 9.
Sanding device. W. Lintern. No. 1,352,205; Sept. 7; v. 278; p. 94.
Sanding device. J. B. Lintern. No. 1,352,206; Sept. 7; v. 278; p. 94.
Sanding device. P. W. Miles. No. 1,340,728; May 18; v. 274; p. 523.
Sanding device. H. Power. No. 1,352,626; Sept. 14; v. 278; p. 211.
Sanding device. H. Power. No. 1,362,350; Dec. 14; v. 281; p. 320.
Sanding machines, Feed-regulator for road-. J. H. Bissell and C. G. Beauregard. No. 1,345,120; June 29; v. 275; p. 932.
Sandpaper and other abrasive sheet material. H. Behr. No. 1,357,944; Nov. 9; v. 280; p. 203.
Sandpapering-machine. N. M. Delong. No. 1,331,843; Feb. 24; v. 271; p. 589.
Sandpapering-machine. J. Siakel. No. 1,330,959; Feb. 17; v. 271; p. 403.
Sandal, Chauffeur's. W. P. May. No. 1,335,346; Mar. 30; v. 272; p. 817.
Sandal, French. C. O. Roe. (Reissue.) No. 14,934; Aug. 17; v. 277; p. 547.
Sanitary cup. F. Alland. No. 1,330,033; Feb. 3; v. 271; p. 128.
Sanitary drain. G. L. Rollins. No. 1,363,535; Dec. 28; v. 281; p. 642.
Sanitary fixture. W. E. Hinsdale. No. 1,335,056; Mar. 30; v. 272; p. 763.
Sanitary fixture. W. E. Hinsdale. No. 1,340,611; May 18; v. 274; p. 502.
Sanitary pad. M. V. Bauer. No. 1,341,875; June 1; v. 275; p. 51.
Sanitation appliance. C. H. Henderson. No. 1,340,338; May 18; v. 274; p. 449.
Sap spout and cover. M. Hanauer. No. 1,347,270; July 20; v. 276; p. 504.
Sardine-preparing apparatus and method. F. Heath. No. 1,361,255; Dec. 7; v. 281; p. 54.
Sardine sizing and selecting apparatus. F. Heath. No. 1,354,251; Sept. 28; v. 278; p. 640.
Sash attachment. H. S. Pierce. No. 1,349,168; Aug. 10; v. 277; p. 254.
Sash attachment, Window-. G. H. Gustafson. No 1,336,430; Apr. 13; v. 273; p. 197.
Sash-balance. R. J. Williams. No. 1,350,584; Aug. 24; v. 277; p. 650.
Sash, Balanced window-. E. Massis. No. 1,347,703; July 27; v. 276; p. 647.
Sash-bar, Metal. S. R. Hewitt. No. 1,329,600; Feb. 3; v. 271; p. 48.
Sash-bower. J. F. Jost. No. 1,351,659; Aug. 31; v. 277; p. 522.
Sash construction. E. M. Jutkins. No. 1,349,887; Aug. 17; v. 277; p. 467.
Sash-cord device. M. Sorg. No. 1,352,846; Sept. 14; v. 278; p. 256.
Sash-cord fastener and fulcrum for window-sashes. E. Smith. No. 1,358,121; Nov. 9; v. 280; p. 238.
Sash-fastener. L. O. Anderson. No. 1,328,029; Jan. 13; v. 270; p. 276.
Sash-fastener. F. H. Colby. No. 1,334,737; Mar. 23; v. 272; p. 642.
Sash-fastener. J. H. Edwards. No. 1,327,594; Jan. 6; v. 270; p. 133.
Sash-fastener. T. Madson. No. 1,359,409; Nov. 16; v. 280; p. 536.
Sash-fastener. M. E. Penquite. No. 1,351,868; Sept. 7; v. 278; p. 31.
Sash-fastener. J. H. Southey. No. 1,358,121; Nov. 16; v. 280; p. 480.
Sash-fastener. R. C. Wheeler. No. 1,356,677; Oct. 26; v. 279; p. 577.
Sash-fastener. A. A. Wilson. No. 1,351,936; Sept. 7; v. 278; p. 45.
Sash fastener and burglar-alarm, Combined window-. E. M. Arndt. No. 1,345,309; June 29; v. 275; p. 969.
Sash fastener, Window-. S. R. Parkes. No. 1,338,250; Apr. 27; v. 273; p. 687.
Sash-hanger. A. L. Schultz. No. 1,331,678; Feb. 24; v. 271; p. 557.
Sash-holder. R. H. Minns. No. 1,338,272; Mar. 9; v. 272; p. 259.
Sash-holder. K. Naudulaitis. No. 1,358,233; Nov. 9; v. 280; p. 259.
Sash holder and fastener, Combined. G. F. Black. No. 1,358,611; Nov. 9; v. 280; p. 336.
Sash holder, Window-. J. H. Gibson. No. 1,346,449; July 13; v. 276; p. 283.
Sash-lock. A. Baker. No. 1,354,013; Sept. 28; v. 278; p. 590.
Sash-lock. W. F. Barger. No. 1,331,976; Feb. 24; v. 271; p. 614.
Sash-lock. T. H. Dean. No. 1,357,849; Nov. 2; v. 280; p. 124.
Sash-lock. C. J. Kasper. No. 1,326,937; Jan. 6; v. 270; p. 11.
Sash-lock. W. P. Kondrat. No. 1,360,413; Nov. 30; v. 280; p. 847.
Sash-lock. E. Larson. No. 1,336,242; Apr. 6; v. 273; p. 102.
Sash-lock. J. E. L'heureux. No. 1,339,362; May 4; v. 274; p. 131.
Sash-lock. C. Lombardo. No. 1,344,048; June 22; v. 275; p. 660.
Sash-lock. H. P. Porter. No. 1,346,677; July 13; v. 276; p. 328.
Sash-lock. H. Reinl. No. 1,339,670; May 11; v. 274; p. 267.
Sash-lock. B. Ruczynski. No. 1,340,462; May 18; v. 274; p. 473.
Sash-lock. S. Segal. No. 1,354,625; Oct. 5; v. 279; p. 36.
Sash-lock, Automatic. J. B. Horton. No. 1,341,234; May 25; v. 274; p. 692.
Sash-lock, Burglar-proof. L. L. Huddleston. No. 1,353,533; Sept. 21; v. 278; p. 450.
Sash lock, Window-. J. D. Daoust. No. 1,355,591; Oct. 12; v. 279; p. 277.
Sash lock, Window-. O. Holdsworth. No. 1,345,928; July 6; v. 276; p. 119.
Sash lock, Window-. V. McDowell. No. 1,355,403; Oct. 12; v. 279; p. 241.
Sash-locking device, Window-. C. M. Jacobs. No. 1,344,038; June 22; v. 275; p. 657.
Sash, Means for lifting, lowering, and securing a window. F. J. Johnson. No. 1,343,322; June 15; v. 275; p. 451.
Sash mounting, Fabricated window-. A. C. Soule. No. 1,356,095; Oct. 19; v. 279; p. 417.
Sash, Mullion-strip for metallic window-. J. G. Stoddard. No. 1,335,801; Mar. 30; v. 272; p. 808.
Sash opener, Window-. J. M. Workman and F. W. Graham. No. 1,356,802; Oct. 26; v. 279; p. 602.
Sash-operating mechanism. W. A. Burnham. No. 1,338,671; May 4; v. 274; p. 4.
Sash-operating mechanism. A. McAllister. No. 1,337,461; Apr. 20; v. 273; p. 467.
Sash operator, Window-. V. Cima. No. 1,339,879; May 11; v. 274; p. 306.
Sash or door lock and burglar-alarm, Combined. J. R. Sandberg. No. 1,358,249; Nov. 9; v. 280; p. 263.
Sash prop, Hot-bed-. W. S. Tope. No. 1,360,827; Nov. 30; v. 280; p. 929.
Sash-rod, Curtain. E. E. Moller. No. 1,326,951; Jan. 6; v. 270; p. 13.
Sash screen, Swinging. F. Reese. No. 1,343,933; June 22; v. 275; p. 637.
Sash stop, Window-. T. Wertz and F. W. Springmeyer. No. 1,337,495; Apr. 20; v. 273; p. 474.
Sash straps and cords, Splicer for. E. B. Shand. No. 1,352,091; Sept. 7; v. 278; p. 78.
Sash-tool or the like. W. F. Casey. (Reissue.) No. 15,016; Dec. 28; v. 281; p. 743.
Sash, Window-. K. Goetz. No. 1,335,492; Mar. 30; v. 272; p. 844.
Sashes, Combination metal weather-strip and guide for window-. R. S. Cade. No. 1,348,205; Aug. 3; v. 277; p. 14.
Sashes, Means for automatically securing window-. C. D. Groves, T. Heath, E. H. Jarvis, and H. W. Bradbury. No. 1,336,696; Apr. 13; v. 273; p. 248.
Satchel-handle. J. Hegerhorst. No. 1,333,618; Mar. 16; v. 272; p. 386.
Sauce and making same. S. Satow. No. 1,332,448; Mar. 2; v. 272; p. 53.
Saucer, Supplemental. J. K. Gregory. No. 1,359,056; Nov. 16; v. 280; p. 468.
Saucepans, Insulated handle for aluminum. F. W. Gower. No. 1,328,510; Jan. 20; v. 270; p. 404.
Saucepan-bed. S. A. Brooks. No. 1,328,558; Jan. 20; v. 270; p. 413.
Sausage-linking machine. G. K. Pappazoglidis and G. Perines. No. 1,361,094; Dec. 7; v. 281; p. 23.
Sausage stuffing and linking machine. A. F. Grabowski. No. 1,363,505; Dec. 28; v. 281; p. 636.
Save-all. R. S. Clarke. No. 1,338,211; Apr. 27; v. 273; p. 679.
Saving systems combined with insurance protection, Controlling means for. F. A. Gesell. No. 1,329,120; Jan. 27; v. 270; p. 548.
Savings-accounts, Means for carrying out systems for. J. B. Bissinger, Jr. No. 1,329,106; Jan. 27; v. 270; p. 545.
Savings safety-box. E. H. Williams. No. 1,348,768; Aug. 3; v. 277; p. 123.
Saw. H. E. Blake. No. 1,334,941; Mar. 23; v. 272; p. 688.
Saw. W. T. Conway. No. 1,362,676; Dec. 21; v. 281; p. 435.
Saw. R. W. Graves and S. M. Holt. No. 1,352,512; Sept. 14; v. 278; p. 189.
Saw. D. A. Mickleson. No. 1,355,683; Oct. 12; v. 279; p. 295.
Saw. K. Takano. No. 1,351,499; Aug. 31; v. 277; p. 890.
Saw and method and means of hardening same. R. W. Pittman. No. 1,351,440; Aug. 31; v. 277; p. 879.
Saw attachment. A. O. Schaefer. No. 1,339,139; May 4; v. 274; p. 92.
Saw attachment, Band-. G. H. Wallace. No. 1,360,604; Nov. 30; v. 280; p. 885.

Digitized by Google

Saw, Automatic wood-. L. D. Sturm. No. 1,332,477; Mar. 2; v. 272; p. 58.
Saw, Band-. M. H. McCormick. No. 1,354,439; Sept. 28; v. 278; p. 677.
Saw, Bench-. C. L. Partridge. No. 1,348,440; Aug. 3; v. 277; p. 61.
Saw-blade. C. H. Driver. No. 1,336,209; Apr. 6; v. 273; p. 95.
Saw-blades, Machine for forming. A. König. No. 1,341,806; June 1; v. 275; p. 38.
Saw, Carpenter's. J. E. Collins. No. 1,335,659; Mar. 30; v. 272; p. 876.
Saw, Chain. C. Benefiel. No. 1,339,091; May 4; v. 274; p. 83.
Saw, Chain. G. G. F. Boswell. No. 1,349,557; Aug. 17; v. 277; p. 404.
Saw, Chain. C. P. Sly. No. 1,363,171; Dec. 21; v. 281; p. 531.
Saw, Circular. A. M. Currier. No. 1,357,030; Oct. 26; v. 279; p. 647.
Saw cleaner, tooth straightener and sharpener, Gin-. W. D. Stanifer. No. 1,328,212; Jan. 13; v. 270; p. 311.
Saw-cleaning and oiling device. J. Raines. No. 1,338,157; Apr. 27; v. 273; p. 669.
Saw-cutting-off and like machines, Interlocking mechanism for cold-. G. F. Muth. No. 1,335,597; Mar. 30; v. 272; p. 863.
Saw-cylinder. R. W. McLean. No. 1,345,207; June 29; v. 275; p. 949.
Saw, Detachable-tooth. D. W. Jenkins. No. 1,337,016; Apr. 13; v. 273; p. 309.
Saw, Drag-. D. W. Mickey. No. 1,329,671; Feb. 3; v. 271; p. 61.
Saw filer and gummer. T. W. McMicken. No. 1,329,423; Feb. 3; v. 271; p. 15.
Saw-filing clamp. J. Szako. No. 1,342,236; June 1; v. 275; p. 123.
Saw-filing device. B. J. Barger. No. 1,354,941; Oct. 5; v. 297; p. 98.
Saw-filing device. W. H. Kramer. No. 1,328,159; Jan. 13; v. 270; p. 301.
Saw-filing device. J. L. Purdy. No. 1,342,462; June 8; v. 275; p. 219.
Saw-filing gage. S. B. Brown. No. 1,361,677; Dec. 7; v. 281; p. 140.
Saw-filing machine. W. Bank. No. 1,339,153; May 4; v. 274; p. 93.
Saw-filing machine. W. R. Gardner. No. 1,335,433; Mar. 30; v. 272; p. 833.
Saw-filing machine, Band-. A. McMillan. No. 1,349,685; Aug. 17; v. 277; p. 429.
Saw for cranial and other purposes, Surgical. H. C. Masland. No. 1,358,865; Nov. 16; v. 280; p. 432.
Saw for cutting rails and the like, Hand-operated. T. H. Alfreds. No. 1,361,805; Dec. 14; v. 281; p. 212.
Saw-frame. T. Ouellett. No. 1,351,121; Aug. 31; v. 277; p. 815.
Saw-gage. N. Allen. No. 1,345,339; July 6; v. 276; p. 3.
Saw-gage attachment. W. W. Gildersleeve. No. 1,356,862; Oct. 26; v. 279; p. 614.
Saw, Gin or linter. R. H. Butters. No. 1,346,396; July 13; v. 276; p. 272.
Saw, Gin or linter. P. H. Sweet. No. 1,353,435; Sept. 21; v. 278; p. 431.
Saw-grinding machines, Device for setting the shafts of. W. Toups. No. 1,337,293; Apr. 20; v. 273; p. 436.
Saw-guard. G. Wieland. No. 1,351,820; Sept. 7; v. 278; p. 21.
Saw guide, Band-. A. Killander. No. 1,357,828; Nov. 2; v. 280; p. 25.
Saw guide-disk, Band-. E. Newell. No. 1,360,564; Nov. 30; v. 280; p. 877.
Saw-gummer. J. Miles. No. 1,336,042; Apr. 6; v. 273; p. 84.
Saw-handle. P. C. Abbott. No. 1,347,432; July 20; v. 276; p. 536.
Saw-handle. D. W. Fulton. No. 1,334,444; Mar. 23; v. 272; p. 587.
Saw-handle. H. Topping. No. 1,344,103; June 22; v. 275; p. 670.
Saw-handle. J. Tuisku. No. 1,335,622; Mar. 30; v. 272; p. 868.
Saw-machine, Intermittent and oscillatory rotary cut-off. J. M. Leaver, Jr. No. 1,359,394; Nov. 16; v. 280; p. 533.
Saw or line-hammer, Hammer-. H. J. Fletcher. No. 1,347,365; July 20; v. 276; p. 523.
Saw, Pipe and tube. I. W. Nonneman. No. 1,344,428; June 22; v. 275; p. 734.
Saw, Portable. F. M. Laserson. No. 1,352,519; Sept. 14; v. 278; p. 190.
Saw, Portable power-. A. R. Gano. No. 1,358,197; Nov. 9; v. 280; p. 253.
Saw, Rail-. C. C. Zimmerman. No. 1,348,616; Aug. 3; v. 277; p. 94.
Saw, Reciprocating. F. W. Peters. No. 1,356,169; Oct 19; v. 279; p. 432.
Saw set. O. Bisson. No. 1,348,622; Aug. 3; v. 277; p. p. 96.
Saw-set. F. Bohlender. No. 1,333,828; Mar. 16; v. 272; p. 425.
Saw-set. C. P. Ellis. No. 1,342,827; June 1; v. 275; p. 139.
Saw-set. L. L. Kaiser. No. 1,334,905; Mar. 23; v. 272; p. 675.
Saw-set. W. J. Ross. No. 1,361,777; Dec. 7; v. 281; p. 159.
Saw-set. L. B. Tiernon and P. J. Kamuf. No. 1,361,927; Dec. 14; v. 281; p. 236.
Saw set and gage. B. Roberts. No. 1,356,221; Oct. 19; v. 279; p. 442.
Saw-setting and sharpening machine, Combined. J. Colley. No. 1,338,173; Apr. 27; v. 273; p. 672.
Saw-shifter. W. G. Hagmaier. No. 1,344,203; June 22; v. 275; p. 689.
Saw support, Circular-. G. O. Joyner and G. J. White. No. 1,327,713; Jan. 13; v. 270; p. 217.
Saw-supporting device. L. Salvesen. No. 1,331,279; Feb. 17; v. 271; p. 461.
Saw, Swing-. H. Kaetker. No. 1,332,558; Mar. 2; v. 272; p. 74.
Saw-table and single-spindle shaper, Combination. N. Josias. No. 1,346,031; July 6; v. 276; p. 139.
Saw teeth, Gin or linter. W. H. Camp and R. H. Butters. No. 1,353,022; Sept. 14; v. 278; p. 291.
Saw-tooth. A. Westgard. No. 1,340,128; May 11; v. 274; p. 353.
Saw-tooth fastener, Divergent. S. C. Cary. No. 1,328,911; Jan. 27; v. 270; p. 409.
Saw-tooth, Insertible. F. L. Woodcock. No. 1,356,682; Oct. 26; v. 279; p. 579.
Saw-works mechanism. T. A. Coleman. No. 1,354,887; Oct. 5; v. 279; p. 88.
Saws, Machine for forming or renewing and sharpening the teeth of gin or linter. R. H. Butters. No. 1,329,036; Jan. 27; v. 270; p. 532.
Saws, Machine for forming the teeth of. F. A. Lambley. No. 1,356,073; Oct. 19; v. 279; p. 412.
Saws, Model for setting and filing. J. P. Arnold. No. 1,359,216; Nov. 16; v. 280; p. 498.
Saws, Positive guard for circular table-. J. D. Smith. No. 1,362,545; Dec. 14; v. 281; p. 358.
Saws, Pusher-feed for gang-. H. L. Barrett. No. 1,348,389; Aug. 3; v. 277; p. 51.
Saws, Safety device for circular. H. T. Heath and L. W. Hall. No. 1,329,708; Feb. 3; v. 271; p. 67.
Saws, Square and miter attachment for. M. Mendel. No. 1,338,188; Apr. 27; v. 273; p. 675.
Saws, Tool for setting the teeth of circular. S. P. Kay. No. 1,349,614; Aug. 17; v. 277; p. 415.
Sawing apparatus. E. D. Tompkins. No. 1,349,698; Aug. 17; v. 277; p. 431.
Sawing apparatus and using same, Cut-off. G. A. Smith. No. 1,346,269; July 13; v. 276; p. 248.
Sawing apparatus, Tree-. V. N. Dmitriff. No. 1,337,395; Apr. 20; v. 273; p. 455.
Sawing, drilling, grinding, &c., Machine for. P. Morris. No. 1,337,147; Apr. 13; v. 273; p. 334.
Sawing-machine. J. A. Arnold. No. 1,362,073; Dec. 14; v. 281; p. 265.
Sawing-machine. G. W. Brogdon. No. 1,346,169; July 13; v. 276; p. 227.
Sawing-machine. L. Denis. No. 1,346,446; July 13; v. 276; p. 283.
Sawing-machine. J. H. McPartland. No. 1,336,365; Apr. 6; v. 273; p. 125.
Sawing-machine. A. H. Rumple. No. 1,335,798; Apr. 6; v. 273; p. 18.
Sawing machine, Metal-. C. Napier. No. 1,360,972; Nov. 30; v. 280; p. 957.
Sawing machine, Portable wood-. E. W. Adams. No. 1,364,054; Dec. 28; v. 281; p. 742.
Sawing machine, Shingle-bolt-. E. Talbot and N. Campbell. No. 1,362,576; Dec. 14; v. 281; p. 363.
Sawing machine, Stump-. A. Hamilton. No. 1,330,940; Feb. 17; v. 271; p. 399.
Sawing machine, Tailstock for button-blank-. W. J. Koch. No. 1,328,742; Jan. 20; v. 270; p. 447.
Sawing machine, Tire-core-. J. C. Fiddyment. No. 1,339,815; May 11; v. 274; p. 294.
Sawing machine, Tree-. R. H. Irvine. No. 1,345,492; July 6; v. 276; p. 32.
Sawing machine, Tree-. G. Kusutani. No. 1,349,772; Aug. 17; v. 277; p. 445.
Sawing machine, Tree and log. N. L. Glover. No. 1,347,504; July 27; v. 276; p. 607.
Sawing machine, Wood-. W. J. Norris. No. 1,335,694; Mar. 30; v. 272; p. 882.
Sawing machine, Wood-. S. S. See. No. 1,356,019; Oct. 19; v. 279; p. 401.
Sawdust-burner. E. W. Seavert. No. 1,359,926; Nov. 23; v. 280; p. 684.
Sawmill attachment. W. H. Gilmour. No. 1,340,042; May 11; v. 274; p. 336.
Sawmill-knee-adjusting mechanism J. Hill, Jr. No. 1,327,555; Jan. 6; v. 270; p. 126.
Sawmills, Side supporter for. P. H. Paulsen. No. 1,363,748; Dec. 28; v. 281; p. 683.
Scaffold. W. H. Bostwick. No. 1,330,162; Feb. 10; v. 271; p. 184.
Scaffold. W. M. Donaldson. No. 1,328,500; Jan. 20; v. 270; p. 402.

Digitized by Google

Alphabetical list of inventions—Continued.

Scaffold. W. D. Kelly. No. 1,336,141; Apr. 6; v. 273; p. 83.
Scaffold. J. J. Kitsteiner, Jr. No. 1,349,426; Aug. 10; v. 277; p. 305.
Scaffold. A. N. Miller. No. 1,360,131; Nov. 23; v. 280; p. 724.
Scaffold. M. Ostroski. No. 1,349,093; Aug. 10; v. 277; p. 238.
Scaffold. H. I. Walker. No. 1,359,452; Nov. 16; v. 280; p. 545.
Scaffold and derrick, Combined. C. C. Young. No. 1,347,430; July 20; v. 276; p. 536.
Scaffold and ladder, Adjustable. N. Powell. No. 1,357,185; Oct. 26; v. 279; p. 676.
Scaffold-bracket. G. F. Moore. No. 1,337,088; Apr. 13; v. 273; p. 323.
Scaffold-bracket. H. O. Sederburg. No. 1,339,482; May 11; v. 274; p. 231.
Scaffold-bracket, Folding. K. Garner. No. 1,347,453; July 20; v. 276; p. 540.
Scaffold, Folding. E. L. Heydecke. No. 1,356,819; Oct. 26; v. 279; p. 605.
Scaffold-hanging apparatus, Safety. J. Udovich. No. 1,340,191; May 18; v. 274; p. 422.
Scaffold, Knockdown painter's swinging. J. E. Connolly. No. 1,360,724; Nov. 30; v. 280; p. 909.
Scaffold, Safety-. F. B. Johnston. No. 1,352,454; Sept. 14; v. 278; p. 177.
Scaffold, Sectional. J. J. Macklem. No. 1,351,053; Aug. 31; v. 277; p. 802.
Scaffold-supporting machine. F. B. Johnston. No. 1,352,455; Sept. 14; v. 278; p. 177.
Scaffold, Window-. J. H. Cook. No. 1,336,283; Apr. 6; v. 273; p. 109.
Scaffolds, Adjustable stringer-support for. F. H. G. Brandt and G. K. Krell. No. 1,346,170; July 13; v. 276; p. 228.
Scaffolding-framework clamp. J. A. Groeninger. No. 1,356,618; Oct. 26; v. 279; p. 506.
Scaffolding-machine. F. Peterson. No. 1,363,749; Dec. 28; v. 281; p. 683.
Scale. A. de Aguiar. No. 1,333,473; Mar. 9; v. 272; p. 298.
Scale. J. H. A. Bousfield. No. 1,346,481; July 13; v. 276; p. 289.
Scale. W. W. Boyd. No. 1,340,318; May 18; v. 274; p. 445.
Scale. F. H. Buckingham. No. 1,347,206; July 20; v. 276; p. 490.
Scale. J. A. Dahne. No. 1,345,587; July 6; v. 276; p. 51.
Scale. H. M. R. Dam. No. 1,332,430; Mar. 2; v. 272; p. 49.
Scale. F. S. Ewing. No. 1,332,116; Feb. 24; v. 271; p. 639.
Scale. J. Hopkinson. No. 1,339,759; May 11; v. 274; p. 283.
Scale. E. Ingle. No. 1,356,987; Oct. 26; v. 279; p. 638.
Scale. L. Jaenichen. No. 1,356,287; Oct. 19; v. 279; p. 455.
Scale. C. E. Riedel. No. 1,355,499; Oct. 12; v. 279; p. 260.
Scale. W. W. Rogers. No. 1,335,604; Mar. 30; v. 272; p. 865.
Scale. A. Sonander. No. 1,352,097; Sept. 7; v. 278; p. 74.
Scale. M. Spinello. No. 1,359,470; Nov. 16; v. 280; p. 549.
Scale. F. M. Stevens. No. 1,351,449; Aug. 31; v. 277; p. 881.
Scale. J. M. Triner. No. 1,352,104; Sept. 7; v. 278; p. 76.
Scale. F. J. Troll. No. 1,354,447; Sept. 28; v. 278; p. 679.
Scale. G. G. and E. L. Voland. No. 1,332,783; Mar. 2; v. 272; p. 116.
Scale and thermostat therefor. B. W. King and A. C. Burkheiser. No. 1,354,997; Sept. 28; v. 278; p. 587.
Scale, Attachment for dial-. C. M. Sweet. No. 1,327,450; Jan. 6; v. 270; p. 106.
Scale, Automatic. G. A. Evans and J. E. Ellison. No. 1,342,670; June 8; v. 275; p. 259.
Scale, Automatic and registering. O. Malcher. No. 1,335,067; Mar. 30; v. 272; p. 765.
Scale, Automatic electric. E. C. Pool. No. 1,356,009; Oct. 19; v. 279; p. 399.
Scale, Automatic rotary weighing-. R. L. Henderson. No. 1,354,394; Sept. 28; v. 278; p. 668.
Scale, Automatic weighing-. S. G. Crane. No. 1,328,319; Jan. 20; v. 270; p. 368.
Scale, Automatic weighing-. S. G. Crane. No. 1,360,186; Nov. 23; v. 280; p. 735.
Scale, Auomatic weighing-. H. E. Earl. No. 1,339,326; May 4; v. 274; p. 124.
Scale, Automatic weighing-. L. C. Wetzel. No. 1,351,080; Aug. 31; v. 277; p. 807.
Scale, Automatic weighing and recording. J. V. Davis. No. 1,352,880; Sept. 14; v. 278; p. 263.
Scale, Compositor's. W. B. Kimble. No. 1,363,126; Dec. 21; v. 281; p. 522.
Scale, Computing and printing. O. Malcher. No. 1,335,066; Mar. 30; v. 272; p. 765.
Scale, Computing and printing. O. Malcher. No. 1,335,069; Mar. 30; v. 272; p. 765.
Scale, Computing and printing. O. Malcher. No. 1,335,070; Mar. 30; v. 272; p. 765.
Scale, Computing and recording. O. Malcher. No. 1,335,068; Mar. 30; v. 272; p. 765.
Scale, Counting-. B. W. King. No. 1,330,593; Feb. 10; v. 271; p. 264.
Scale, Electric automatic. S. G. Crane. No. 1,328,320; Jan. 20; v. 270; p. 368.
Scale, Electric weighing-. E. C. Pool. No. 1,359,272; Nov. 16; v. 280; p. 508.
Scale, Dial-. M. A. Sweet. No. 1,334,472; Mar. 23; v. 272; p. 592.
Scale for weighing mail-matter. F. W. McArdle. No. 1,340,280; May 18; v. 274; p. 438.
Scale from iron plate, Removing. I. M. Scott. No. 1,359,281; Nov. 16; v. 280; p. 510.
Scale-holder. A. Simons. No. 1,346,513; July 13; v. 276; p. 296.
Scale, Illuminated weighing-. S. G. Crane. No. 1,356,602; Oct. 26; v. 279; p. 563.
Scale or rule for centering typewritten or other work, Centering. R. B. Funk. No. 1,343,912; June 22; v. 275; p. 633.
Scale, Pendulum-. E. C. Pool. No. 1,326,963; Jan. 6; v. 270; p. 16.
Scale, Pendulum weighing-. H. O. Hem. No. 1,360,213; Nov. 23; v. 280; p. 740.
Scale-post. G. G. and E. L. Voland. No. 1,350,189; Aug. 17; v. 277; p. 526.
Scale, Railway-track. A. W. Epright and W. H. Grindall. No. 1,352,441; Sept. 14; v. 278; p. 175.
Scale, Refrigerator-. H. Bernhardt. No. 1,357,683; Nov. 2; v. 280; p. 91.
Scale, Registering weighing-. H. Hathaway. No. 1,336,351; Apr. 6; v. 273; p. 122.
Scale, Weighing-. J. C. Barrett. No. 1,352,935; Sept. 14; v. 278; p. 274.
Scale, Weighing-. H. S. Bergen. No. 1,360,172; Nov. 23; v. 280; p. 732.
Scale, Weighing-. C. E. Bird. No. 1,359,223; Nov. 16; v. 280; p. 499.
Scale, Weighing-. E. R. Cross. No. 1,355,942; Oct. 19; v. 279; p. 386.
Scale, Weighing-. F. P. Dunn. No. 1,339,440; May 11; v. 274; p. 222.
Scale, Weighing-. B. B. Gordon. No. 1,331,757; Feb. 24; v. 271; p. 572.
Scale, Weighing-. C. H. Hapgood. No 1,341,123; May 25; v. 274; p. 670.
Scale, Weighing-. C. H. Hapgood. No. 1,351,034; Aug. 31; v. 277; p. 799.
Scale, Weighing-. H. O. Hem. No. 1,348,174; Aug. 3; v. 277; p. 8.
Scale, Weighing-. J. S. Jones. No. 1,363,253; Dec. 28; v. 281; p. 588.
Scale, Weighing-. M. B. Mills. No. 1,327,208; Jan. 6; v. 270; p. 62.
Scale, Weighing-. A. Vandecar. No. 1,346,862; July 20; v. 276; p. 423.
Scale, Weighing-. A. S. Vogt. No. 1,347,605; July 27; v. 276; p. 627.
Scale with price and weight printing attachment, Automatic. H. S. Bergen. No. 1,347,572; July 27; v. 276; p. 621.
Scales, Advertising attachment for. A. N. Funk. No. 1,346,488; July 13; v. 276; p. 291.
Scales, Advertising device for weighing-. W. J. Vandercar. No. 1,346,923; July 20; v. 276; p. 436.
Scales, Caliper-gage for metal measuring-. R. S. Kling. No. 1,361,470; Dec. 7; v. 281; p. 99.
Scales, Indicating mechanism for. E. G. Thomas. No. 1,360,154; Nov. 23; v. 280; p. 729.
Scales, Recording device for weighing-. A. Caloiaro. No. 1,354,445; Sept. 28; v. 278; p. 678.
Scales, Thermostatic device for. B. W. King. No. 1,348,225; Aug. 3; v. 277; p. 19.
Scales, Value printing and indicating device for. E. E. L. and F. G. L. Boyer. No. 1,338,282; Apr. 27; v. 273; p. 693.
Scales, Weather-cover for track-. J. W. Orrock. No. 1,335,599; Mar. 30; v. 272; p. 864.
Scarecrow. C. A. Davis. No. 1,357,032; Oct. 26; v. 279; p. 647.
Scarecrow. E. Farnam. No. 1,329,044; Jan. 27; v. 270; p. 534.
Scarf, Chenille. H. Santoro. No. 1,328,903; Jan. 27; v. 270; p. 507.
Scarfing-machine. J. T. Scott. No. 1,330,498; Feb. 10; v. 271; p. 247.
Scarfpin. G. W. Buggeln. No. 1,348,083; July 27; v. 276; p. 723.
Scarfpin-holder. A. Kessler. No. 1,348,120; July 27; v. 276; p. 730.
Scenic effects, Combining reflected and transmitted light-waves of varying lengths to produce subjective changes in. C. Bittinger. No. 1,342,247; June 1; v. 275; p. 125.
School-room checker. W. L. Bissell. No. 1,267,888; July 27; v. 276; p. 684.
Scissors. C. R. Storz. No. 1,339,797; May 11; v. 274; p. 290.
Scissors attachment. P. Johnson. No. 1,363,600; Dec. 28; v. 281; p. 655.

Digitized by Google

Scissors, Pocket-. C. F. Dietrich. No. 1,354,807; Oct. 5; v. 279; p. 72.
Scoop. G. C. Cato. No. 1,333,887; Mar. 9; v. 272; p. 281.
Scoop. C. H. Nowack. No. 1,330,548; Feb. 10; v. 271; p. 256.
Scoop-board. W. J. Combs. No. 1,357,955; Nov. 9; v. 280; p. 205.
Scoop, Extracting-. F. M. Turner. No. 1,330,826; Feb. 17; v. 271; p. 376.
Scoop or shovel, Sink. S. Berger. No. 1,353,307; Sept. 21; v. 278; p. 406.
Score-keeping apparatus. E. Steigerwald, and F. L. H. Pfeil. No. 1,327,177; Jan. 6; v. 270; p. 56.
Score-keeping apparatus. E. Steigerwald. No. 1,346,987; July 20; v. 276; p. 449.
Score-reckoner, Reference. W. K. Rowan-Legg. No. 1,330,138; Feb. 10; v. 271; p. 180.
Scouring, dyeing, or otherwise treating with liquor, wool, yarn, &c., Apparatus for. H. Walker. No. 1,354,081; Sept. 28; v. 278; p. 605.
Scow, Dumping-. R. S. Hancock. No. 1,360,291; Nov. 30; v. 280; p. 824.
Scrap-cutter. W. J. Todhunter. No. 1,349,020; Aug. 10; v. 277; p. 224.
Scraper. K. S. Chung. No. 1,327,522; Jan. 6; v. 270; p. 120.
Scraper. J. Engelbrecht. No. 1,355,134; Oct. 12; v. 279; p. 188.
Scraper. C. Gottschalk. No. 1,327,155; Jan. 6; v. 270; p. 52.
Scraper. J. Kalivoda. No. 1,348,119; July 27; v. 276; p. 730.
Scraper. I. Mossman. No. 1,333,816; Mar. 16; v. 272; p. 423.
Scraper. T. J. Nopp. No. 1,362,031; Dec. 14; v. 281; p. 257.
Scraper. D. R. Throop. No. 1,330,359; Feb. 10; v. 271; p. 221.
Scraper and land-leveler, Road-. A. P. K. Berg. No. 1,351,277; Aug. 31; v. 277; p. 846.
Scraper and leveler. H. V. Morris. No. 1,333,815; Mar. 16; v. 272; p. 423.
Scraper, Bearing-. M. A. Burch. No. 1,336,885; Apr. 13; v. 273; p. 284.
Scraper, Dirt-. R. Riley. No. 1,358,017; Nov. 9; v. 280; p. 217.
Scraper, Drag-line. W. H. Crawford. No. 1,332,609; Mar. 2; v. 272; p. 83.
Scraper, Earth-. A. R. Miskin. No. 1,352,301; Sept. 7; v. 278; p. 113.
Scraper, Flue-. B. M. Berntson. No. 1,336,673; Apr. 13; v. 273; p. 243.
Scraper, Fork-. J. H. Johnson. No. 1,341,750; June 1; v. 275; p. 27.
Scraper, Grain-. E. A. T. Holden. No. 1,353,341; Sept. 21; v. 278; p. 412.
Scraper, Hog-. C. F. Nayer. No. 1,328,637; Jan. 20; v. 270; p. 428.
Scraper, Hog-. C. F. Nayer. No. 1,329,725; Feb. 3; v. 271; p. 71.
Scraper, Mechanical. J. A. Holland. No. 1,341,369; May 25; v. 274; p. 718.
Scraper or leveling machine, Land. B. Sandstrom. No. 1,343,159; June 8; v. 275; p. 357.
Scraper, Road-. S. M. Chase and F. A. Fleming. No. 1,330,783; Feb. 17; v. 271; p. 368.
Scraper, Road-. C. M. Dicus. No. 1,350,991; Aug. 24; v. 277; p. 727.
Scraper, Road-. J. H. Wickstrom. No. 1,333,438; Mar. 16; v. 272; p. 436.
Scraper, Tail-board. G. S. Spreyer. No. 1,343,097; June 8; v. 275; p. 344.
Scraper, Wheeled. D. Popor. No. 1,363,435; Dec. 28; v. 281; p. 622.
Scraper, Wheeled. A. B. Stout. No. 1,360,050; Nov. 23; v. 280; p. 708.
Scrapers, Beater-belt for hog-. K. E. Kersten. No. 1,329,529; Feb. 3; v. 271; p. 35.
Scraping-machine. O. Dorthen. No. 1,337,890; Apr. 20; v. 273; p. 549.
Scraping machine, Animal-. C. F. Nayer. No. 1,329,724; Feb. 3; v. 271; p. 70.
Scraping-tool-forming machine. B. S. Loveland. No. 1,363,476; Dec. 28; v. 281; p. 630.
Screen: *See*—
Adjustable screen.
Automatic screen.
Automobile-screen.
Awning and screen.
Carbureting-screen.
Coal-screen.
Diffusing-screen.
Eaves-trough screen.
Fly-screen.
Fur-screen.
Gas-screen.
Gravel-screen.
Metal-frame screen.
Photo-engraver's screen.
Picture-screen.
Picture-display screen.
Portable screen.
Porthole-screen.
Pulp-screen.
Retouching-screen.
Rolling screen.
Rotary screen.
Sand-screen.
Sash-screen.
Self-cleaning screen.
Shaker-screen.
Shaking-screen.
Vibratory screen.
Weather-screen.
Well-screen.
Wind-shield screen.
Window-screen.
Screen. J. A. Day. No. 1,363,284; Dec. 28; v. 281; p. 584.
Screen. E. Lynch. No. 1,332,131; Feb. 24; v. 271; p. 642.
Screen. M. P. Reynolds. No. 1,333,220; Mar. 9; v. 272; p. 250.
Screen. W. M. Schwartz and F. Kershaw. No. 1,361,626; Dec. 7; v. 281; p. 130.
Screen. L. A. Stoneman. No. 1,333,513; Mar. 9; v. 272; p. 305.
Screen. C. M. Way. No. 1,345,569; July 6; v. 276; p. 48.
Screen. W. Worobel. No. 1,351,275; Aug. 31; v. 277; p. 846.
Screen. H. F. Wullstein. No. 1,334,579; Mar. 23; v. 272; p. 612.
Screen and ventilator, Combined window-. C. F. A. Cammann. No. 1,356,428; Oct. 19; v. 279; p. 482.
Screen attachment, Bolter-. J. M. Kennedy. No. 1,336,300; Apr. 6; v. 273; p. 112.
Screen catch, Window-. J. B. Bradley. No. 1,352,171; Sept. 7; v. 278; p. 88.
Screen, curtain, &c. W. B. Knapp. No. 1,355,608; Oct. 12; v. 279; p. 281.
Screen-door brace. C. A. Elliott. No. 1,340,161; May 18; v. 274; p. 417.
Screen for artificial light, Composition of color-filter or absorbing-. M. Luckiesh and D. A. Dewey. No. 1,331,937; Feb. 24; v. 271; p. 606.
Screen-frame. M. J. and A. Roth. No. 1,363,921; Dec. 28; v. 281; p. 716.
Screen-marker. J. C. Milnes. No. 1,345,211; June 29; v. 275; p. 950.
Screen, Non-cloggable self-cleaning. A. G. Turner. No. 1,343,292; June 15; v. 275; p. 445.
Screen or curtain, Insulating. F. C. Fuller. No. 1,361,977; Dec. 14; v. 281; p. 246.
Screen or shield, Protecting. J. Kozik. No. 1,344,558; June 22; v. 275; p. 766.
Screen or storm-sash fastener. F. Ranc, Jr., and W. E. Christie. No. 1,334,922; Mar. 23; v. 272; p. 679.
Screen or ventilator, Collapsible. F. J. Sikorovsky. No. 1,332,924; Mar. 9; v. 272; p. 195.
Screen pickup-roller. G. W. Martin. No. 1,346,550; July 13; v. 276; p. 303.
Screen support, Roll-. M. McGaughy. No. 1,360,424; Nov. 30; v. 280; p. 849.
Screen, Vibratory. J. C. Schaffer. No. 1,363,276; Dec. 28; v. 281; p. 592.
Screens, Apparatus for producing smoke-. R. C. Benner and H. F. French. No. 1,336,557; Apr. 13; v. 273; p. 221.
Screens, Detachable fastener for cylindrical. W. L. Leach. No. 1,347,841; July 20; v. 276; p. 518.
Screens, Device for cleaning. H. S. Hunt. No. 1,357,499; Nov. 2; v. 280; p. 56.
Screens, Fly-exit for window-. G. L. and O. W. Zierlein. No. 1,361,659; Dec. 7; v. 281; p. 137.
Screens, Insect-escape for. J. P. Reily. No. 1,354,132; Sept. 28; v. 278; p. 615.
Screens, Producing fog-. T. R. Leigh. No. 1,358,084; Nov. 9; v. 280; p. 231.
Screens, shades, and curtains, Combination bracket for. S. Heath. No. 1,337,768; Apr. 20; v. 273; p. 526.
Screened chair, Foldable. S. Stransky. No. 1,344,097; June 22; v. 275; p. 669.
Screening apparatus. M. P. Reynolds. No. 1,333,219; Mar. 9; v. 272; p. 250.
Screening materials, Method of and apparatus for. M. P. Reynolds. No. 1,332,685; Mar. 2; v. 272; p. 97.
Screening or filtering apparatus. H. D. Wells. No. 1,346,690; July 13; v. 276; p. 331.
Screw. J. W. Caldwell. No. 1,336,778; Apr. 13; v. 273; p. 262.
Screw-anchor, Expanding. J. Blackburn. No. 1,330,233; Feb. 10; v. 271; p. 198.
Screw-anchor, Expanding. J. Blackburn. No. 1,343,384; June 15; v. 275; p. 464.
Screw, Ball-bearing. J. Hope. No. 1,357,562; Nov. 2; v. 280; p. 68.
Screw, Bench-. H. Reisiger. No. 1,345,403; July 6; v. 276; p. 15.
Screw-clamp. E. Watkins. No. 1,328,862; Jan. 27; v. 270; p. 499.
Screw driver and placer. I. L. Messenger. No. 1,350,558; Aug. 24; v. 277; p. 644.
Screw, Feed-. C. F. M. van Berkel. No. 1,346,997; July 20; v. 276; p. 451.
Screw-jack, Mechanical. A. Boas. No. 1,347,006; July 20; v. 276; p. 452.
Screw-lock. W. H. Clopton. No. 1,350,139; Aug. 17; v. 277; p. 516.
Screw, Machine-. O. A. Smith. No. 1,330,098; Feb. 10; v. 271; p. 172.
Screw-making machine. E. M. Brennan. No. 1,359,572; Nov. 23; v. 280; p. 614.
Screw-padlock. S. P. Hull and E. A. Everett. No. 1,363,599; Dec. 28; v. 281; p. 654.
Screw-press. R. Craig. No. 1,358,418; Nov. 9; v. 280; p. 298.
Screw-press. J. Deininger. No. 1,354,446; Sept. 28; v. 278; p. 678.

Digitized by Google

Screw-press, &c., Friction-actuated. R. Theumer and F. Schar. No. 1,363,932; Dec. 28; v. 281; p. 718.
Screw, Set-. H. H. Frick. No. 1,330,792; Feb. 17; v. 271; p. 370.
Screw, Stop or set. N. R. M. Weibull. No. 1,346,867; July 20; v. 276; p. 425.
Screw-thread gage. A. Bechler. No. 1,336,189; Apr. 6; v. 273; p. 92.
Screw-thread gage. R. H. Parker. No. 1,353,608; Sept. 21; v. 278; p. 466.
Screw-thread gage. C. H. Taylor and H. J. Alpe. No. 1,354,587; Oct. 5; v. 279; p. 28.
Screw-thread protector. J. Schirra. No. 1,349,789; Aug. 17; v. 277; p. 449.
Screw-threads, Cutter for milling. G. G. M. Hardingham. No. 1,335,892; Apr. 6; v. 273; p. 35.
Screw-threads, Machine for backing off the teeth of hobs for cutting. G. Richards. No. 1,355,780; Oct. 12; v. 279; p. 314.
Screw-threads, Means applicable for use in milling. G. Richards. No. 1,361,098; Dec. 7; v. 281; p. 23.
Screw, Worm-. R. H. Botts. No. 1,347,802; July 27; v. 276; p. 666.
Screw-wrench, Quick-adjustable. J. M. Grenzfelder. No. 1,343,448; June 15; v. 275; p. 475.
Screws and bolts, Lock-housing for. W. H. Toelle. No. 1,339,075; May 4; v. 274; p. 80.
Screws, Device for testing the pitch of. H. W. Pugh and C. H. Vidal. No. 1,332,065; Feb. 24; v. 271; p. 630.
Screws, Driving-tool for anchor-sockets for. I. D. Stine. No. 1,333,881; Mar. 16; v. 272; p. 485.
Screws, Lock for anchor-sockets for. I. D. Stine. No. 1,333,880; Mar. 16; v. 272; p. 484.
Screws, Means for measuring the pitch of. W. Bolton and E. T. Bishop. No. 1,338,670; May 4; v. 274; p. 4.
Screws, Thrust-abutment for lead-. W. J. Lineham. No. 1,330,881; Feb. 17; v. 271; p. 387.
Screwing apparatus. A. Carrette. No. 1,353,024; Sept. 14; v. 278; p. 291.
Screwdriver. G. N. Coburn. No. 1,360,368; Nov. 30; v. 280; p. 838.
Screwdriver. C. A. Herman. No. 1,362,697; Dec. 21; v. 281; p. 439.
Screwdriver. F. A. Holt. No. 1,355,743; Oct. 12; v. 279; p. 307.
Screwdriver. H. Hood. No. 1,345,443; July 6; v. 276; p. 23.
Screwdriver. I. W. James. No. 1,359,384; Nov. 16; v. 280; p. 531.
Screwdriver. D. C. Monroe. No. 1,333,437; Mar. 9; v. 272; p. 290.
Screwdriver. V. H. Schneider. No. 1,345,708; July 6; v. 276; p. 75.
Screwdriver, Automatic releasing. D. C. Monroe. No. 1,333,436; Mar. 9; v. 272; p. 290.
Screwdriver, Ratchet-. A. Pannitti, Jr. No. 1,334,674; Mar. 23; v. 272; p. 680.
Screwdrivers, Screw-holding attachment for. M. Coll. No. 1,360,500; Nov. 30; v. 280; p. 865.
Scriber. L. Viezzi. No. 1,353,682; Sept. 21; v. 278; p. 481.
Scribing device. W. G. Hill. No. 1,351,476; Aug. 31; v. 277; p. 886.
Scrub-brushes, Soap-holding attachment for. H. E. Adams. No. 1,338,665; May 4; v. 274; p. 3.
Scrubbing-machine. F. A. Espeland. No. 1,346,643; July 13; v. 276; p. 321.
Scrubbing-machine. M. P. Pregler. No. 1,329,474; Feb. 3; v. 271; p. 25.
Scrubbing machine, Automatic floor-. C. Stoney. No. 1,333,226; Mar. 9; v. 272; p. 251.
Scrubbing, Rolling device for. H. G. Aldenbruck and L. E. Webber. No. 1,348,683; Aug. 3; v. 277; p. 107.
Sculling device. J. C. O'Neill. No. 1,357,111; Oct. 26; v. 279; p. 663.
Scythe. W. Worthington. No. 1,338,272; Apr. 27; v. 273; p. 691.
Scythe-snathe. D. F. Collicutt. No. 1,353,631; Sept. 21; v. 278; p. 471.
Sea-current-direction indicator. S. Sakauye. No. 1,336,925; Apr. 13; v. 273; p. 292.
Sea-wall. R. B. Willard. No. 1,332,655; Mar. 2; v. 272; p. 92.
Seal: *See*—
Tire-casing seal.
Seal. M. B. Behrman. No. 1,359,784; Nov. 23; v. 280; p. 656.
Seal. H. C. Des Combes. No. 1,334,353; Mar. 23; v. 272; p. 570.
Seal. W. H. Goodell. No. 1,332,291; Mar. 2; v. 272; p. 22.
Seal. E. Reich. No. 1,337,985; Apr. 20; v. 273; p. 568.
Seal. E. Reich. No. 1,361,903; Dec. 14; v. 281; p. 231.
Seal closure, Side-. G. Ramsey. No. 1,327,963; Jan. 13; v. 270; p. 263.
Seal, Conduit-. J. I. Misener. No. 1,351,724; Aug. 31; v. 277; p. 934.
Seal-fastening. T. E. Murray. No. 1,333,276; Mar. 9; v. 272; p. 260.
Seal, Gummed. A. W. Engel. No. 1,351,559; Aug. 31; v. 277; p. 903.
Seal, Metal. T. G. Jones. No. 1,356,152; Oct. 19; v. 279; p. 428.
Seal-press. A. M. Willard. No. 1,346,150; July 13; v. 276; p. 224.
Seal, Self-locking. G. H. Ford. No. 1,338,618; Apr. 27; v. 273; p. 755.
Seal, Shackle-. W. M. Brooks. No. 1,354,164; Sept. 28; v. 278; p. 621.
Seal, Strap-. S. J. Ornston. No. 1,345,806; July 6; v. 276; p. 94.
Seals, means for applying crown-. H. C. Beste. No. 1,341,163; May 25; v. 274; p. 678.
Sealed receptacle, Hermetically-. W. E. Taylor. No. 1,337,491; Apr. 20; v. 273; p. 478.
Sealer, Electric. R. D. Sorver. No. 1,333,458; Mar. 9; v. 272; p. 294.
Sealer, Envelop-. M. A. K. Hendrickson. No. 1,333,489; Mar. 9; v. 272; p. 300.
Sealing apparatus. A. Lindahl. No. 1,346,902; July 20; v. 276; p. 431.
Sealing appliance. A. Calleson. No. 1,331,182; Feb. 17; v. 271; p. 444.
Sealing appliance. A. Calleson. No. 1,353,628; Sept. 21; v. 278; p. 470.
Sealing boxes, Press for. F. S. Oppenheim. No. 1,358,981; Nov. 16; v. 280; p. 454.
Sealing cans. C. E. Forry. No. 1,363,581; Dec. 28; v. 281; p. 651.
Sealing-cap. R. E. Bruns. No. 1,346,112; July 13; v. 276; p. 217.
Sealing-cap. R. E. Bruns. No. 1,361,225; Dec. 7; v. 281; p. 48
Sealing composition. T. C. Wester. No. 1,341,490; May 25; v. 274; p. 742.
Sealing composition, Gasket-. J. F. Vervoort. No. 1,341,952; June 1; v. 275; p. 67.
Sealing containers *in vacuo*, Means for. O. Vick. No. 1,362,203; Dec. 14; v. 281; p. 291.
Sealing containers, Means for hermetically. H. A. Baker. No. 1,343,955; June 22; v. 275; p. 641.
Sealing device. C. A. Wiss. No. 1,331,133; Feb. 17; v. 271; p. 435.
Sealing device, Container-strap-. H. L. Morawetz. No. 1,361,890; Dec. 14; v. 281; p. 229.
Sealing device, Hermetic-. C. W. Graham. No. 1,351,162; Aug. 31; v. 277; p. 822.
Sealing device, Shaft-. E. T. Williams. No. 1,327,002; Jan. 6; v. 270; p. 28.
Sealing device, Vacuum. H. Duffy. No. 1,336,211; Apr. 6; v. 273; p. 96.
Sealing-machine. R. Magrane. No. 1,332,787; Mar. 2; v. 272; p. 107.
Sealing-machine. E. L. Walker. No. 1,346,072; July 6; v. 276; p. 147.
Sealing machine, Box-end-. W. Peet. No. 1,349,432; Aug. 10; v. 277; p. 306.
Sealing machine, Carton-. H. R. Bevier. No. 1,332,196; Mar. 2; v. 272; p. 4.
Sealing machine, Package-. H. L. Johnson. No. 1,352,899; Sept. 14; v. 278; p. 267.
Sealing machine, Vacuum-. R. Magrane. No. 1,332,788; Mar. 2; v. 272; p. 108.
Sealing means. W. M. Brooks. No. 1,354,165; Sept. 28; v. 278; p. 622.
Sealing-strip. F. W. Farrell. No. 1,358,834; Nov. 16; v. 280; p. 425.
Sealing-wax applier. C. K. Spencer. No. 1,328,769; Jan. 20; v. 270; p. 452.
Seam. R. R. Hughes, Jr. No. 1,344,000; June 22; v. 275; p. 650.
Seam. S. G. Tate. No. 1,353,554; Sept 21; v. 278; p. 455.
Seam and forming same. G. L. Summers. No. 1,361,292; Dec. 7; v. 281; p. 62.
Seam-binder cover. M. S. Bassisty. No. 1,356,120; Oct. 19; v. 279; p. 422.
Seam for sewed articles. J. R. Moffatt. No. 1,331,717; Feb. 24; v. 271; p. 564.
Seam for sewed articles, Double lap-. J. J. Heap. No. 1,348,645; Aug. 3; v. 277; p. 100.
Seam-pounding machine. W. C. Stewart. No. 1,346,275; July 13; v. 276; p. 249.
Seam-pressing machine. J. Denemark. No. 1,337,204; Apr. 20; v. 273; p. 419.
Seam-rubbing machine. P. R. Glass. No. 1,346,194; July 13; v. 276; p. 232.
Seams, Making triple. A. H. Weis. No. 1,341,769; June 1; v. 275; p. 31.
Seamer, Double-. A. Johnson. No. 1,349,837; Aug. 17; v. 277; p. 457.
Seaming machine, Double-. O. P. Nystrom. No. 1,332,352; Mar. 2; v. 272; p. 83.
Seaming machine, Double-. A. W. Wheeler. No. 1,343,538; June 15; v. 275; p. 494.
Search or pocket light support. E. G. Petrie. No. 1,362,177; Dec. 14; v. 281; p. 285.
Searchlight. H. B. Stamm. No. 1,334,471; Mar. 23; v. 272; p. 591.
Search-light apparatus. G. Dalén. No. 1,350,547; Aug. 24; v. 277; p. 642.
Searchlight apparatus. E. Granat. No. 1,355,662; Oct. 12; v. 279; p. 291.

Digitized by Google

Searchlight-feeding mechanism. E. A. Sperry. No. 1,362,575; Dec. 14; v. 281; p. 363.
Searchlight practice and other purposes, Fire-balloon for. J. U. Coates. No. 1,332,107; Feb. 24; v. 271; p. 638.
Searchlight, Stage-. C. J. Tritschler. No. 1,332,084; Feb. 24; v. 271; p. 634.
Searchlight, Vehicle-. J. E. Genn. No. 1,346,489; July 13; v. 276; p. 291.
Searchlight, Undersea-. O. H. Harney. No. 1,332,124; Feb. 24; v. 271; p. 641.
Seat: *See*—
Agricultural-implement seat.
Automobile-seat.
Auxiliary seat.
Barber's seat.
Bicycle-seat.
Car-seat.
Cart-seat.
Chair-seat.
Closet-seat.
Cushion-seat.
Fishing-rod reel-seat.
Folding seat.
Infant-seat.
Locomotive-cab seat.
Loom-seat.
Motorcycle-seat.
Nursery-seat.
Piano-stool seat.
Reel-seat.
Revoluble seat.
Spring-seat.
Suspensible seat.
Toilet-seat.
Vehicle-seat.
Wagon-seat.
Water-closet seat.
Window-seat.
Seat. E. W. Bruns. No. 1,364,033; Dec. 28; v. 281; p. 737.
Seat. D. F. Oliver. No. 1,333,998; Mar. 16; v. 272; p. 456.
Seat attachment, Adjustable-. G. S. Stuart. No. 1,356,235; Oct. 19; v. 279; p. 445.
Seat-brace. J. H. Klepper. No. 1,358,561; Nov. 9; v. 280; p. 326.
Seat construction. M. A. Garrett. No. 1,356,202; Oct. 19; v. 279; p. 438.
Seat-cushion, Upholstered. E. C. Lang and C. A. Van Derveer. No. 1,336,525; Apr. 13; v. 273; p. 214.
Seat-fastening device. J. W. Henry. No. 1,355,669, Oct. 12; v. 279; p. 292.
Seat-finder. G. S. Pyle. No. 1,332,145; Feb. 24; v. 271; p. 644.
Seat-hook. A. M. Allen. No. 1,353,701; Sept. 21; v. 278; p. 483.
Seat structure. C. A. Hoehn. No. 1,343,916; June 22; v. 275; p. 634.
Seat structure. G. X. Schneider. No. 1,336,097; Apr. 6; v. 273; p. 75.
Seat structure, Ventilated-. R. Kerr, Sr. No. 1,356,493; Oct. 19; v. 279; p. 494.
Seat-support. F. M. Crabill. No. 1,340,753; May 18; v. 274; p. 528.
Seat-support. A. V. Roe. No. 1,362,042; Dec. 14; v. 281; p. 259.
Seat-tilting device, Toilet-. K. Yoshinaga. No. 1,333,747; Mar. 16; v. 272; p. 410.
Seats and backs of chairs, Cushion-cover for. R. Steinmetz. No. 1,349,347; Aug. 10; v. 277; p. 289.
Seats, Attachment for automobile-. J. H. Deering. No. 1,340,754; May 18; v. 274; p. 528.
Seats, Table attachment for. F. S. Baskin. No. 1,348,924; Aug. 10; v. 277; p. 205.
Seats, Table attachment for. K. S. Baskin. No. 1,351,548; Aug. 31; v. 277; p. 900.
Seats, Table attachment for. W. B. Cogger. No. 1,363,759; Dec. 28; v. 281; p. 685.
Seating plan and class-record. E. C. Delaney. No. 1,352,728; Sept. 14; v. 278; p. 233.
Secondary or storage battery. B. Ford. No. 1,329,590; Feb. 3; v. 271; p. 46.
Secretary. M. V. Bauer. No. 1,364,022; Dec. 28; v. 281; p. 736.
Section-switch. H. W. Davis. No. 1,327,463; Jan. 6; v. 270; p. 108.
Sectional bolt. C. K. Wightman. No. 1,337,807; Apr. 20; v. 273; p. 533.
Sectional spring. S. Gainer. No. 1,343,620; June 15; v. 275; p. 510.
Securing-bolt. A. M. O'Neill. No. 1,349,344; Aug. 10; v. 277; p. 288.
Securing-bolt. W. J. Spiro. No. 1,356,835; Oct. 26; v. 279; p. 608.
Securing device. L. A. Hoeflich. No. 1,361,858; Dec. 14; v. 281; p. 223.
Securing device. R. M. Small. No. 1,361,917; Dec. 14; v. 281; p. 234.
Securing devices, Manufacturing. W. W. Blakely. No. 1,327,852; Jan. 13; v. 270; p. 243.
Sediment-drainage, Means of. B. F. Fowler. No. 1,337,215; Apr. 20; v. 273; p. 421.
Sedimentation apparatus. C. L. Peck. No. 1,337,094; Apr. 13; v. 273; p. 324.
Sedimentation apparatus. C. L. Peck. No. 1,337,095; Apr. 13; v. 273; p. 324.
Seed-corn cabinet and drier. O. G. Vold. No. 1,346,070; July 6; v. 276; p. 147.
Seed, Determining the germinating value of. A. C. Gallardo. No. 1,330,112; Feb. 10; v. 271; p. 175.
Seed-drill. R. A. Belcher. No. 1,358,927; Nov. 16; v. 280; p. 444.
Seed-drill. F. Sherwin. No. 1,352,482; Sept. 14; v. 278; p. 183.
Seed-dropping mechanism. T. J. Ellison. No. 1,342,948; June 8; v. 275; p. 315.
Seed-pan. S. F. Dawkins. No. 1,329,266; Jan. 27; v. 270; p. 575.
Seed-planting gage. G. A. Warnecke. No. 1,357,013; Oct. 26; v. 279; p. 643.
Seed-remover. C. Nichols. No. 1,356,997; Oct. 26; v. 279; p. 640.
Seed-selecting mechanism. R. A. Vest. No. 1,343,802; June 15; v. 275; p. 546.
Seed-separating device. W. S. Jeffries. No. 1,350,973; Aug. 24; v. 277; p. 724.
Seed-separator electrical drier. H. L. Gray. No. 1,362,568; Dec. 14; v. 281; p. 362.
Seed-sowing device. S. L. Allen. No. 1,330,367; Feb. 10; v. 271; p. 222.
Seeder. B. F. C. Gueldenhaar. No. 1,345,362; July 6; v. 276; p. 7.
Seeder, Cherry-. H. B. Brand. No. 1,357,377; Nov. 2; v. 280; p. 34.
Seeder, Garden-. H. Osmundson. No. 1,330,275; Feb. 10; v. 271; p. 205.
Seeder, Hand-. A. M. Castillo. No. 1,347,249; July 20; v. 276; p. 500.
Seeding apparatus. R. H. Griswold and A. W. Hammond. No. 1,340,654; May 18; v. 274; p. 510.
Seedtape, Machine for and method of forming. E. C. Gray. No. 1,364,050; Dec. 28; v. 281; p. 741.
Seesaw. J. F. Duncan. No. 1,363,097; Dec. 21; v. 281; p. 517.
Seesaw, Whirling. J. E. Smith. No. 1,344,965; June 29; v. 275; p. 902.
Segment-block. J. R. Baumann. No. 1,349,552; Aug. 10; v. 277; p. 329.
Segment-block. M. Caine. No. 1,347,247; July 20; v. 276; p. 499.
Segregating system. H. R. Brand. No. 1,360,617; Nov. 30; v. 280; p. 888.
Selecting-switch. C. L. Goodrum and J. A. Kropp. No. 1,334,750; Mar. 23; v. 273; p. 644.
Selecting system. A. F. Dixon. No. 1,328,986; Jan. 27; v. 270; p. 523.
Selecting system. A. F. Dixon. No. 1,362,605; Dec. 21; v. 281; p. 420.
Selective actuating mechanism. R. D. Smith. No. 1,350,575; Aug. 24; v. 277; p. 648.
Selector-switch. F. M. Slough. No. 1,363,364; Dec. 28; v. 281; p. 608.
Selector-switch, Automatic. F. M. Slough. No. 1,363,365; Dec. 28; v. 281; p. 609.
Self-adjusting wrench. J. W. Saffold. No. 1,363,274; Dec. 28; v. 281; p. 591.
Self-adjustable wrench. I. J. Short. No. 1,332,922; Mar. 9; v. 272; p. 194.
Self-cleaning rake. W. Kroier. No. 1,334,909; Mar. 23; v. 272; p. 676.
Self-cleaning rake. C. Moore. No. 1,338,459; Apr. 27; v. 273; p. 726.
Self-cleaning screen. S. E. Lee. No. 1,331,935; Feb. 24; v. 271; p. 606.
Self-feeder for swine. C. R. Hamilton. No. 1,346,784; July 13; v. 276; p. 350.
Self-instruction, System and educational appliance for military. C. W. Wright. No. 1,342,520; June 8; v. 275; p. 230.
Self-locking clip and shield, Combined. E. Coulson. No. 1,328,422; Jan. 20; v. 270; p. 387.
Self-locking washer. J. E. Henegar. No. 1,332,626; Mar. 2; v. 272; p. 87.
Self-luminous device. R. W. Erdle. No. 1,363,854; Dec. 28; v. 281; p. 704.
Self-opening die. O. A. Sorensen. No. 1,351,447; Aug. 31; v. 277; p. 880.
Self-opening gate. C. F. Sebring. No. 1,327,257; Jan. 6; v. 270; p. 71.
Self-serving table. G. Juresisin. No. 1,344,900; June 29; v. 275; p. 891.
Self-starters, Gear engaging mechanism for. S. I. Fekete and S. G. Baits. No. 1,347,265; July 20; v. 276; p. 503.
Selvage-forming device. H. Le Doux. No. 1,344,413; June 22; v. 275; p. 730.
Selvage-trimmer. A. P. Lewis. No. 1,333,588; Mar. 9; v. 272; p. 319.
Semaphore. G. Hanisko. No. 1,363,111; Dec. 21; v. 281; p. 519.
Semaphore-signal. A. V. Pollmiller. No. 1,328,194; Jan. 13; v. 270; p. 307.
Sender-testing system. A. E. Lundell and E. W. Hancock. No. 1,334,767; Mar. 23; v. 272; p. 648.
Sennit of polygonal cross-section. C. W. Ashley. No. 1,361,803; Dec. 14; v. 281; p. 211.
Sensitive member. A. Roesch. No. 1,359,107; Nov. 16; v. 280; p. 477.
Separable contact device. R. B. Benjamin. No. 1,335,550; Mar. 30; v. 272; p. 855.
Separable fastener. F. S. Carr. No. 1,353,110; Sept. 14; v. 278; p. 308.
Separable fastener. F. S. Carr. No. 1,353,111; Sept. 14; v. 278; p. 308.
Separable fastener. C. A. Miller. No. 1,337,785; Apr. 20; v. 273; p. 529.

Digitized by Google

Alphabetical list of inventions—Continued.

Separable fastener. E. R. Nebeling. No. 1,357,795; Nov. 2; v. 280; p. 113.
Separable fastener. A. O. Vestine. No. 1,347,604; July 27; v. 276; p. 627.
Separating and grading machine. J. N. Sparks. No. 1,333,944; Mar. 16; v. 272; p. 447.
Separating apparatus. E. L. Marshall. No. 1,356,384; Oct. 19; v. 279; p. 473.
Separating-machine. P. Eby. No. 1,347,215; July 20; v. 276; p. 492.
Separating-machine. C. H. McArthur. No. 1,336,848; Apr. 13; v. 273; p. 277.
Separating-machine, Centrifugal. R. E. Lapham. No. 1,336,968; Apr. 13; v. 273; p. 300.
Separating mixtures, Means for. S. S. Howell. No. 1,355,477; Oct. 12; v. 279; p. 256.
Separating or grading apparatus. T. F. Wilkinson. No. 1,347,314; July 20; v. 276; p. 513.
Separating particles of varying size or density, Apparatus for. F. Koch. No. 1,358,375; Nov. 9; v. 280; p. 288.
Separating substances from liquids. P. T. Sharples. No. 1,351,265; Aug. 31; v. 277; p. 843.
Separation, Centrifugal. W. Mauss. No. 1,355,559; Oct. 12; v. 279; p. 272.
Separator: *See*—

Air-separator.	Grain-separator.
Ash, cinder, and coal separator.	Metal-separator.
Battery-separator.	Oats-separator.
Centrifugal separator.	Ore-separator.
Coal-separator.	Paper-pulp separator.
Cotton-separator	Revolving separator.
Cranberry-separator.	Sand-separator.
Cream-separator.	Sand and slime separator.
Dust-separator.	Spinning-frame separator.
Dry separator.	Spiral separator.
Gold-separator.	Steam-separator.
	Storage-battery separator.

Separator. F. A. Bruns. No. 1,327,903; Jan. 13; v. 270; p. 252.
Separator. R. N. Chamberlain. No. 1,328,420; Jan. 20; v. 270; p. 387.
Separator. H. Clay. No. 1,357,275; Nov. 2; v. 280; p. 14.
Separator. J. T. Costello. No. 1,359,578; Nov. 23; v. 280; p. 615.
Separator. F. Keller and W. D. Neely. No. 1,358,559; Nov. 9; v. 280; p. 326.
Separator. S. Santilli. No. 1,358,337; Nov. 9; v. 280; p. 281.
Separator. T. J. Sturtevant. No. 1,350,626; Aug. 24; v. 277; p. 658.
Separator. T. J. Sturtevant. No. 1,353,545; Sept. 21; v. 278; p. 453.
Separator. T. J. Sturtevant. No. 1,353,546; Sept. 21; v. 278; p. 453.
Separator. T. J. Sturtevant. No. 1,353,547; Sept. 21; v. 278; p. 453.
Separator. T. J. Sturtevant. No. 1,353,548; Sept. 21; v. 278; p. 453.
Separator. T. J. Sturtevant. No. 1,353,549; Sept. 21; v. 278; p. 454.
Separator. T. J. Sturtevant. No. 1,353,550; Sept. 21; v. 278; p. 454.
Separator. T. J. Sturtevant. No. 1,353,551; Sept. 21; v. 278; p. 454.
Separator. T. J. Sturtevant. No. 1,360,469; Nov. 30; v. 280; p. 859.
Separator. A. B. Todd. No. 1,348,252; Aug. 3; v. 277; p. 25.
Separator and process. Centrifugal. R. A. Sturgeon. No. 1,356,665; Oct. 26; v. 279; p. 575.
Separators, Adjustable sieve for. D. E. Hoffman. No. 1,339,560; May 11; v. 274; p. 245.
Separators, Inlet and distributing device for full milk in cream-. J. E. Brundin. No. 1,332,600; Mar. 2; v. 272; p. 82.
Septic or consuming tank. G. A. Boze. No. 1,332,882; Mar. 9; v. 272; p. 186.
Septic-tank. M. J. Griffith. No. 1,349,452; Aug. 10; v. 277; p. 309.
Septic tank, Individual. H. Byrd. No. 1,334,986; Mar. 30; v. 272; p. 750.
Service and meter-test system and associated apparatus. B. D. Horton. No. 1,338,180; Apr. 27; v. 273; p. 673.
Service apparatus, Prepay time-controlled-. W. H. Thompson. No. 1,339,634; May 11; v. 274; p. 260.
Service-switch. G. E. Palmer. No. 1,355,566; Oct. 12; v. 279; p. 273.
Service-table. A. J. Adams. No. 1,333,954; Mar. 16; v. 272; p. 449.
Serving-table. F. P. Main. No. 1,353,660; Sept. 21; v. 278; p. 477.
Setback-register. R. E. Kimball. No. 1,352,973; Sept. 14; v. 278; p. 281.
Setting mechanism. C. L. Lee. No. 1,338,280; Apr. 27; v. 273; p. 683.
Settling-basin-separating device. C. Allen. No. 1,339,682; May 11; v. 274; p. 269.
Settling-tank. S. F. Keller. No. 1,345,090; June 29; v. 275; p. 926.
Sewage and other liquids, Purification of. W. Jones. No. 1,341,561; May 25; v. 274; p. 755.
Sewage and other liquids, Separation and settlement of solids and matters from. W. Clifford. No. 1,343,764; June 15; v. 275; p 539
Sewage disposal, Apparatus for. L. P. Berry, Jr. No. 1,337,431; Apr. 20; v.273; p. 461.
Sewage, garbage, &c., Machine for treating. J. J. Smith. No. 1,329,727; Feb. 3; v. 271; p. 71.
Sewage, Treating. J. W. Wilson. No. 1,331,735; Feb. 24; v. 271; p. 568.
Sewer-basins, Traveling apparatus for cleaning. G. W. Otterson; No. 1,343,471; June 15; v. 275; p. 480.
Sewer-block. J. E. Ulm. No. 1,338,885; May 4; v. 274; p. 43.
Sewer-cleaning apparatus. W. H. Stewart. No. 1,344,249; June 22; v. 275; p. 698.
Sewer-entrances, Clean-out header for. J. F. Witt. No. 1,349,245; Aug. 10; v. 277; p. 269.
Sewer-flushing mechanism. R. A. Maddox. No. 1,349,078; Aug. 10; v. 277; p. 235.
Sewer-pipe, Automatic and intermittent brander for socket. C. Batliner. No. 1,340,929; May 25; v. 274; p. 632.
Sewer-pipe construction. J. Stremel. No. 1,348,332; Aug. 3; v. 277; p. 40.
Sewer-pipes, Automatic and intermittent brander for socket. J. E. Minter. No 1,340,969; May 25; v 274; p. 640.
Sewer-structure invert-sections, Mold for. J. H. Zinn. No. 1,327,006; Jan. 6; v. 270; p. 24.
Sewer-trap. L. S. Foerderer. No. 1,338,432; Apr. 27; v. 273; p. 720.
Sewer-trap. H. W. Nagel. No. 1,351,677; Aug. 31; v. 277; p. 925.
Sewer-trap. J. W. Ripple. No. 1,328,103; Jan. 13; v. 270; p. 290.
Sewers, Apparatus for removing sediment from catch-basins of. G. W. Otterson. No. 1,327,211; Jan. 6; v. 270; p. 62.
Sewers, Machine for building. M. R. Sheen. No. 1,351,137; Aug 31; v. 277; p. 878.
Sewers of engine cinder-pits, Protector for. T. Riley. No. 1,349,734; Aug. 17; v. 277; p. 439.
Sewing-machine. C. M. Abercrombie. No. 1,338,064; Apr. 27; v. 273; p. 652.
Sewing-machine. J. Berger. No. 1,329,221; Jan. 27; v. 270; p. 567.
Sewing-machine. J. Berger, Jr. (Reissue.) No. 14,813; Mar. 9; v. 272; p. 321.
Sewing-machine. J. Berger, Jr. (Reissue.) No. 14,814; Mar. 9; v. 272; p. 321.
Sewing-machine. J. Berger, Jr. No. 1,356,334; Oct. 19; v. 279; p. 464.
Sewing-machine. F. E. Bertrand. No. 1,360,262; Nov. 30; v. 280; p. 819.
Sewing-machine. C. C. Blake. No. 1,367,889; July 27; v. 276; p. 684.
Sewing-machine. P. A. Bowen. No. 1,330,781; Feb. 17; v. 271; p. 368.
Sewing-machine. A. H. De Voe. No. 1,336,824; Apr. 13; v. 273; p. 272.
Sewing-machine. A. Eppler. No. 1,355,824; Oct. 19; v. 279; p. 363.
Sewing-machine. A. Eppler. No. 1,355,825; Oct. 19; v. 279; p. 363.
Sewing-machine. C. E. Francis. No. 1,331,099; Feb. 17; v. 271; p. 429.
Sewing-machine. C. E. Francis. No. 1,346,120; July 13; v. 276; p. 218.
Sewing-machine. W. C. Free. No. 1,342,435; June 8; v. 275; p. 214.
Sewing-machine. W. J. Glidden. No. 1,342,165; June 1; v. 275; p. 109.
Sewing-machine. C. F. Gray. No. 1,346,884; July 20; v. 276; p. 428.
Sewing-machine. P. A. Herr. No. 1,329,763; Feb. 3; v. 271; p. 78.
Sewing-machine. G. S. Hill. No. 1,352,514; Sept. 14; v. 278; p. 189.
Sewing-machine. G. S. Hill. No. 1,353,837; Sept. 28; v. 278; p. 555.
Sewing-machine. G. S. Hill. No. 1,358,847; Nov. 16; v. 280; p. 428.
Sewing-machine. R. K. Hohmann. No. 1,343,823; June 15; v. 275; p. 550.
Sewing-machine. R. R. Hughes, Jr. No. 1,329,245; Jan. 27; v. 270; p. 571.
Sewing-machine. J. Kiewicz. No. 1,338,378; Apr. 27; v. 273; p. 710.
Sewing-machine. J. Kiewicz. No. 1,352,280; Sept. 7; v. 278; p. 108.
Sewing-machine. J. Kiewicz. No. 1,361,871; Dec. 14; v. 281; p. 225.
Sewing-machine. G. L. Mark. No. 1,358,228; Nov. 9; v. 280; p. 258.
Sewing-machine. W. D. Michener. No. 1,331,164; Feb. 17; v. 271; p. 441.
Sewing-machine. J. R. Moffatt. No. 1,352,675; Sept. 14; v. 278; p. 222.
Sewing-machine. J. R. Moffatt and R. S. Kelso. No. 1,332,511; Mar. 2; v. 272; p. 65.
Sewing-machine. G. W. Nelson. No. 1,357,468; Nov. 2; v. 280; p. 50.

Digitized by Google

Sewing-machine. D. Noble. No. 1,351,866; Sept. 7; v. 278; p. 31.
Sewing-machine. L. Onderdonk and A. J. Wohlpart. No. 1,350,934; Aug. 24; v. 277; p. 716.
Sewing-machine. J. Partmann. No. 1,331,078; Feb. 17; v. 271; p. 426.
Sewing-machine. E. J. Ray. No. 1,332,683; Mar. 2; v. 272; p. 97.
Sewing-machine. A. and M. G. Rosenthal. No. 1,355,914; Oct. 19; v. 279; p. 380.
Sewing-machine. T. H. Seely. No. 1,348,901; Aug. 10; v. 277; p. 201.
Sewing-machine. D. S. Seymour. No. 1,354,783; Oct. 5; v. 279; p. 67.
Sewing-machine. H. Shapiro and I. Joffe. No. 1,358,471; Nov. 9; v. 280; p. 309.
Sewing-machine. K. Vesely. No. 1,339,243; May 4; v. 274; p. 109.
Sewing-machine. J. P. Weis. No. 1,328,108; Jan. 13; v. 270; p. 291.
Sewing-machine. F. Zaleski. No. 1,338,348; Apr. 27; v. 273; p. 705.
Sewing-machine. F. Zaleski. No. 1,338,476; Apr. 27; v. 273; p. 729.
Sewing-machine. F. Zaleski. No. 1,338,477; Apr. 27; v. 273; p. 729.
Sewing-machine. F. Zaleski and A. R. Schoenky. No. 1,361,952; Dec. 14; v. 281; p. 241.
Sewing-machine and cutting mechanism therefor. J. P. Weis. No. 1,348,526; Aug. 3; v. 277; p. 76.
Sewing-machine attachment. G. J. Axt. No. 1,361,356; Dec. 7; v. 281; p. 75.
Sewing-machine attachment. W. H. Baynard. No. 1,332,536; Mar. 2; v. 272; p. 70.
Sewing-machine attachment. C. Bergeron. No. 1,336,340; Apr. 6; v. 273; p. 120.
Sewing-machine attachment. A. H. De Voe. No. 1,359,877; Nov. 23; v. 280; p. 674.
Sewing-machine attachment. C. E. Francis. No. 1,355,462; Oct. 12; v. 279; p. 253.
Sewing-machine attachment. A. Memoli. No. 1,332,054; Feb. 24; v. 271; p. 628.
Sewing-machine attachment. B. E. Robinson. No. 1,347,406; July 20; v. 276; p. 531.
Sewing-machine attachment. F. Thomas. No. 1,360,598; Nov. 30; v. 280; p. 884.
Sewing-machine attachment. H. Thorne. No. 1,348,133; July 27; v. 276; p. 732.
Sewing-machine attachment. A. Tricomi. No. 1,335,468; Mar. 30; v. 272; p. 839.
Sewing-machine attachment, Shoe-. A. G. Malmberg. No. 1,341,570; May 25; v. 274; p. 757.
Sewing-machine, Automatic. E. E. Winkley. No. 1,342,367; June 1; v. 275; p. 147.
Sewing machine, Bag-. J. E. Schmandt. No. 1,351,134; Aug. 31; v. 277; p. 817.
Sewing machine, Bead-. J. A. Groebli. No. 1,356,762; Oct. 26; v. 279; p. 594.
Sewing machine, Button-. J. W. Darley, Jr. No. 1,336,346; Apr. 6; v. 273; p. 121.
Sewing machine, Buttonhole-. E. B. Allen. No. 1,339,732; May 11; v. 274; p. 278.
Sewing machine, Buttonhole-. E. B. Allen. No. 1,344,748; June 29; v. 275; p. 862.
Sewing machine, Buttonhole-. E. B. Allen. No. 1,346,102; July 13; v. 276; p. 215.
Sewing machine, Buttonhole-. G. S. Hill. No. 1,332,664; Mar. 2; v. 272; p. 93.
Sewing machine, Buttonhole-. J. Klewicz. No. 1,350,729; Aug. 24; v. 277; p. 678.
Sewing machine, Buttonhole-. J. Klewicz. No. 1,358,855; Nov. 16; v. 280; p. 430.
Sewing machine, Buttonhole-. F. A. Read. No. 1,345,023; June 29; v. 275; p. 914.
Sewing machine, Buttonhole-. F. A. Reece. No. 1,343,278; June 15; v. 275; p. 443.
Sewing machine, Buttonhole-. F. A. Reece. No. 1,343,337; June 15; v. 275; p. 454.
Sewing machine, Buttonhole-. H. C. Searle. No. 1,330,555; Feb. 10; v. 271; p. 257.
Sewing-machine, Chain-stitch. A. H. De Voe. No. 1,335,047; Mar. 30; v. 272; p. 761.
Sewing-machine constructions, Apparatus for. A. Eig. No. 1,351,029; Aug. 31; v. 277; p. 798.
Sewing-machine, Electrically-driven. C. W. H'Doubler. No. 1,354,603; Oct. 5; v. 279; p. 31.
Sewing machine, Embroidery-. G. M. Eames and J. S. Finch. No. 1,338,074; Apr. 27; v. 273; p. 654.
Sewing-machine feed. A. D. Smith. No. 1,329,636; Feb. 3; v. 271; p. 54.
Sewing-machine finger-guard. A. Miske. No. 1,361,741; Dec. 7; v. 281; p. 153.
Sewing-machine for plaited-sole shoes. N., J., and G. S. Fraser. No. 1,351,637; Aug. 31; v. 277; p. 918.
Sewing-machine gage. S. Morgen. No. 1,343,149; June 8; v. 275; p. 355.
Sewing machine, Glove-. F. G. Hotka. No. 1,348,176; Aug. 3; v. 277; p. 9.
Sewing machine, Hat-. J. Whitelaw. No. 1,327,972; Jan. 13; v. 270; p. 265.
Sewing-machine head, Portable. G. H. Riddell. No. 1,344,718; June 29; v. 275; p. 856.
Sewing-machine hemmer. F. W. Beckert. No. 1,334,589; Mar. 23; v. 272; p. 614.
Sewing-machine, Inseam. A. R. Morrill. No. 1,350,377; Aug. 24; v. 277; p. 608.
Sewing machine, Inseam shoe-. J. E. Thayer. No. 1,339,633; May 11; v. 274; p. 259.
Sewing-machine loop-taker. R. Petti. No. 1,351,869; Sept. 7; v. 278; p. 31.
Sewing-machine looper. J. Whitelaw and G. T. May, Jr. No. 1,347,313; July 20; v. 276; p. 512.
Sewing machine, Mantle-. H. Embree. No. 1,342,669; June 8; v. 275; p. 258.
Sewing-machine marker. W. Miller. No. 1,330,601; Feb. 10; v. 271; p. 266.
Sewing-machine motor. F. J. Osius. No. 1,327,210; Jan. 6; v. 270; p. 62.
Sewing-machine, Ornamental-stitch. A. H. De Voe. No. 1,334,650; Mar. 23; v. 272; p. 625.
Sewing-machine power-stand. A. H. De Voe. No. 1,347,840; July 27; v. 276; p. 674.
Sewing machine, Shoe-. F. Ashworth. No. 1,329,491; Feb. 3; v. 271; p. 28.
Sewing machine, Shoe-. F. Ashworth. No. 1,351,090; Aug. 31; v. 277; p. 809.
Sewing machine, Shoe-. A. Eppler. No. 1,339,645; May 11; v. 274; p. 262.
Sewing machine, Shoe-. A. Latham. No. 1,341,061; May 25; v. 274; p. 658.
Sewing machine, Shoe-. J. M. Levangie. No. 1,342,685; June 8; v. 275; p. 262.
Sewing machine, Shoe-. T. H. Seely. No. 1,355,856; Oct. 19; v. 279; p. 369.
Sewing machine, Shoulder-strap-. J. P. Weis. No. 1,327,646; Jan. 13; v. 270; p. 204.
Sewing machine, Sole-. J. W. Goddard and A. E. Jerram. No. 1,353,827; Sept. 28; v. 278; p. 553.
Sewing-machine stand, Portable. J. D. Stuart. No. 1,334,508; Mar. 23; v. 272; p. 599.
Sewing-machine support. J. A. McCracken. No. 1,342,686; June 8; v. 275; p. 262.
Sewing-machine, Triple-seam. A. H. Weis. No. 1,341,448; May 25; v. 274; p. 733.
Sewing-machine, Wax-thread. W. C. Meyer. No. 1,341,065; May 25; v. 274; p. 659.
Sewing-machines, Automatic stop for. J. Shapiro. No. 1,332,071; Feb. 24; v. 271; p. 631.
Sewing-machines, Auxiliary grinding device for. W. E. Chipman. No. 1,358,705; Nov. 16; v. 280; p. 399.
Sewing-machines, Bobbin-winder for motor-driven. G. H. Riddell. No. 1,351,442; Aug. 31; v. 277; p. 879.
Sewing-machines, Button attachment for. J. Tucker. No. 1,363,172; Dec. 21; v. 281; p. 531.
Sewing-machines, Buttonhole attachment for. P. F. Lechleiter. No. 1,331,070; Feb. 17; v. 271; p. 424.
Sewing-machines, Cloth-feed mechanism for blindstitch-. J. Goldberg. No. 1,352,061; Sept. 7; v. 278; p. 67.
Sewing-machines, Combined folder for. F. H. McCoy. No. 1,357,105; Oct. 26; v. 279; p. 661.
Sewing-machines, Combined looper and feeding mechanism for. J. P. Weis. No. 1,327,647; Jan. 13; v. 270; p. 204.
Sewing-machines, Crossthread-laying mechanism for. J. R. Moffatt. No. 1,327,348; Jan. 6; v. 270; p. 87.
Sewing-machines, Feed mechanism for. A. D. Smith. No. 1,341,388; May 25; v. 274; p. 721.
Sewing-machines, Feeding machine for. G. E. Molyneux. No. 1,356,938; Oct. 26; v. 279; p. 629.
Sewing-machines, Feeding mechanism for. G. E. Molyneux. No. 1,355,242; Oct. 12; v. 279; p. 210.
Sewing-machines, Folder or seam-opener for. W. J. Loggie. No. 1,340,782; May 18; v. 274; p. 583.
Sewing-machines, Friction drive for. A. Cohn. No. 1,359,153; Nov. 16; v. 280; p. 485.
Sewing-machines, Hemming and trimming attachments for. H. Corrall and J. Heggie. No. 1,339,742; May 11; v. 274; p. 280.
Sewing-machines, Horn-tip for McKay. W. W. Bradbury. No. 1,356,512; Oct. 26; v. 279; p. 545.
Sewing-machines, Loop retainer for. J. R. Moffatt and R. S. Kelso. No. 1,350,931; Aug. 24; v. 277; p. 715.
Sewing-machines, Looper-operating mechanism for. L. Onderdonk. No. 1,332,447; Mar. 2; v. 272; p. 52.
Sewing-machines, Motor attachment for. E. Wagman and H. Brussell. No. 1,350,126; Aug. 17; v. 277; p. 513.
Sewing-machines, Motor control for. W. Forsberg. No. 1,339,817; May 11; v. 274; p. 294.
Sewing-machines, Motor-support for. J. A. Flanagan. No. 1,335,103; Mar. 30; v. 272; p. 772.
Sewing-machines, Needle-bar for blindstitch. T. J. Hayes. No. 1,334,934; Mar. 23; v. 272; p. 681.
Sewing-machines, Needle-threader for. A. Corduan. No. 1,350,592; Aug. 24; v. 277; p. 652.
Sewing-machines, Oil-guard for. W. J. Beattie. No. 1,344,787; June 29; v. 275; p. 870.
Sewing-machines, Oil-saving drip-pan for. S. Goldstone. No. 1,334,088; Mar. 16; v. 272; p. 474.
Sewing-machines, Presser-foot for. J. R. Moffatt. No. 1,339,121; May 4; v. 274; p. 89.
Sewing-machines, Presser-foot mechanism for. L. E. Johnson, E. Erickson, and O. T. Peterson. No. 1,357,237; Nov. 2; v. 280; p. 7.

Digitized by Google

Sewing-machines, Presser-foot mechanism for blindstitch. T. J. Hayes. No. 1,341,233; May 25; v. 274; p. 691.
Sewing-machines, Presser mechanisms for. A. H. De Voe. No. 1,350,301; Aug. 24; v. 277; p. 593.
Sewing-machines, Rotary take-up for. A. D. Smith. No. 1,329,637; Feb. 3; v. 271; p. 55.
Sewing-machines, Ruffling mechanism for. R. R. Hughes, Jr. No. 1,334,611; Mar. 23; v. 272; p. 618.
Sewing-machines, Ruffling mechanism for. J. R. Moffatt. No. 1,328,885; Jan. 27; v. 270; p. 504.
Sewing-machines, Starting device for. E. B. Allen. No. 1,334,640; Mar. 23; v. 272; p. 623.
Sewing-machines, Stitch-forming mechanism for. M. T. Denne. No 1,346.183; July 13; v. 276; p. 230.
Sewing-machines, Stitch-forming mechanism for. J. R. Moffatt. No. 1,334,626; Mar. 23; v. 272; p. 621.
Sewing-machines, Stitch-forming mechanism for. J. R. Moffatt. No. 1,350,326; Aug. 24; v. 277; p. 598.
Sewing-machines, Stocking-guide for. J. L. Stengel. No. 1,339,230; May 4; v. 274; p. 107.
Sewing-machines, Strip-guide for. G. S. Gatchell. No. 1,347,503; July 27; v. 276; p. 606.
Sewing-machines, Tension-controlling mechanism for. E. B. Allen. No. 1,346,103; July 13; v. 276; p. 215.
Sewing-machines, Thread-controlling device for. F. W. Merrick. No. 1,344,424; June 22; v. 275; p. 738.
Sewing-machines, Thread-controlling means for. J. P. Weis. No. 1,328,023; Jan. 13; v. 270; p. 275.
Sewing-machines, Thread-controlling mechanism for. E. B. Allen. No. 1,339,733; May 11; v. 274; p. 278.
Sewing-machines, Thread-controlling mechanism for. R. Becker. No. 1,349,115; Aug. 10; v. 277; p. 243.
Sewing-machines, Thread-controlling mechanism for. G. S. Gatchell. No. 1,342,800; June 8; v. 275; p. 286.
Sewing-machines, Thread-controlling mechanism for. G. S. Gatchell. No. 1,361,247; Dec. 7; v. 281; p. 52.
Sewing-machines, Thread-cutter for. J. R. Moffatt and R. S. Kelso. No. 1,332,512; Mar. 2; v. 272; p. 65.
Sewing machines, Thread-cutter for bag-. J. O. Bakke. No. 1,342,150; June 1; v. 275; p. 105.
Sewing-machines, Thread-cutting mechanism for. E. B Allen. No. 1,333,594; Mar. 16; v. 272; p. 381.
Sewing-machines, Thread-cutting mechanism for. W. L. Barron and F. E. Osol. No. 1,336,808; Apr. 13; v. 273; p. 269.
Sewing-machines, Thread-nipper-releasing device for. G. S. Gatchell. No. 1,327,232; Jan. 6; v. 270; p. 66.
Sewing-machines, Thread-severing mechanism for. A. F. Fifield. No. 1,346,814; July 20; v. 276; p. 414.
Sewing-machines, Thread tension, holder, and cutter for. A. D. Smith. No. 1,329,638; Feb. 3; v. 271; p. 55.
Sewing-machines, Thread-trimmer for. J. Kiewicz. No. 1,338,374; Apr. 27; v. 273; p. 710.
Sewing-machines, Thread-waxing device for. F. Ashworth. No. 1,355,118; Oct. 12; v. 279; p. 185.
Sewing-machines, Throat-plate for. J. R. Moffatt and R. S. Kelso. No. 1,358,567; Nov. 9; v. 280; p. 327.
Sewing-machines, Transmission mechanism for. B. Weinberger. No. 1,360,337; Nov. 30; v. 280; p. 833.
Sewing-machines, Trimming mechanism for. A. H. De Voe. No. 1,336,825; Apr. 13; v. 273; p. 273.
Sewing-machines, Trimming mechanism for. R. R. Hughes, Jr. No. 1,353,534; Sept. 21; v. 278; p. 451.
Sewing-machines, Work-arm for. A. H. De Voe. No. 1,355,216; Oct. 12; v. 279; p. 205.
Sewing-machines, Work-guide for. F. T. Ströbeck. No. 1,342,775; June 8; v. 275; p. 281.
Sewing-machines, Work holder and guide for. A. Stein. No. 1,346,988; July 20; v. 276; p. 449.
Sewing-machines, Work-holder for. W. L. Barron and W. D. Michener. No. 1,361,217; Dec. 7; v. 281; p. 46.
Sewing machines, Work-holder for button-. W. L. Barron. No. 1,355,119; Oct. 12; v. 279; p. 185.
Sewing machines, Work-holder for button-. W. L. Barron. No. 1,359,858; Nov. 23; v. 280; p. 670.
Sewing machines, Work-positioning device for buttonhole-. J. Kiewicz. No. 1,359,712; Nov. 23; v. 280; p. 641.
Sewing-machines, Work-presenting mechanism for. T. J. Hayes. No. 1,333,310; Mar. 9; v. 272; p. 267.
Sewing-machines, Work-presenting mechanism for blindstitch. H. C. Moulton. No. 1,334,920; Mar. 23; v. 272; p. 678.
Sewing-machines, Work-support for. H. S. Bauer. No. 1,360,357; Nov. 30; v. 280; p. 836.
Sewing-machines, Work-supporting rack for. J. Gutstein. No. 1,351,244; Aug. 31; v. 277; p. 839.
Sewing machines, Workholder mechanism for buttonhole-. E. B. Allen. No. 1,331,176; Feb. 17; v. 271; p. 443.
Sewing mechanism. A. H. Weis. No. 1,344,284; June 22; v. 275; p. 705.
Sewing service, Handy. J. S. Brooks and J. M. Collins. No. 1,331,236; Feb. 17; v. 271; p. 454.
Sewing-table, and needlework-bag, Combination. F. Vondrée. No. 1,353,866; Sept. 28; v. 278; p. 561.
Sextant. H. A. Hughes and T. Y. Baker. No. 1,337,912; Apr. 20; v. 273; p. 553.
Sextant. A. Hughes. No. 1,339,342; May 4; v. 274; p. 128.
Shackle, Leaf-spring. S. M. Stone. No. 1,336,446; Apr. 13; v. 273; p. 200.
Shackle, Spring-. E. J. Madden. No. 1,362,720; Dec. 21; v. 281; p. 443.
Shackle, Spring-. J. E. Ryan. No. 1,358,335; Nov. 9; v. 280; p. 280.
Shackle, Spring-. F. P. Sawders and J. G. Murray. No. 1,352,633; Sept. 14; v. 278; p. 213.
Shade and curtain bracket. F. J. Grote. No. 1,343,126; June 8; v. 275; p. 350.
Shade and curtain fixture. W. Ojczyk. No. 1,337,615; Apr. 20; v. 273; p. 496.
Shade and curtain fixture. F. W. Schenmeyer. No. 1,350,623; Aug. 24; v. 277; p. 657.
Shade and curtain fixture, Combined. C. H. Eddy. No. 1,333,163; Mar. 9; v. 272; p. 239.
Shade and curtain hanger. J. L. Cole and B. E. Sense. No. 1,356,127; Oct. 19; v. 279; p. 423.
Shade and curtain hanger. D. J. Dorsey. No. 1,328,136; Jan. 13; v. 270; p. 297.
Shade and curtain hanger. D. J. Dorsey. No. 1,330,243; Feb. 10; v. 271; p. 199.
Shade and curtain hanger, Window. J. C. Dodson. No. 1,337,827; Apr. 20; v. 273; p. 537.
Shade and curtain hanger, Window. W. W. Mullendore. No. 1,360,137; Nov. 23; v. 280; p. 726.
Shade and curtain holder, Combination. M. and L. Roth. No. 1,336,051; Apr. 6; v. 273; p. 65.
Shade and curtain-pole bracket. F. Ruzicka. No. 1,342,230; June 1; v. 275; p. 122.
Shade and curtain-pole bracket, Window-. W. F. Kasbohm. No. 1,341,562; May 25; v. 274; p. 755.
Shade and curtain-pole holder. J. Teft. No. 1,330,358; Feb. 10; v. 271; p. 221.
Shade and curtain support. E. H. Furnice. No. 1,335,378; Mar. 30; v. 272; p. 822.
Shade and curtain support, Window. M. E. Whipple. No. 1,363,489; Dec. 28; v. 281; p. 632.
Shade attachment, Window-. M. Warner and C. Whetstone. No. 1,343,859; June 15; v. 275; p. 558.
Shade-bracket. A. L. Bell. No. 1,330,997; Feb. 17; v. 271; p. 410.
Shade-bracket. W. S. Gaston. No. 1,359,352; Nov. 16; v. 280; p. 525.
Shade-bracket. J. C. Henson. No. 1,346,749; July 13; v. 276; p. 342.
Shade-bracket. A. Zebrowski. No. 1,353,695; Sept. 21; v. 278; p. 484.
Shade bracket, Adjustable window-. J. Szefczyk. No. 1,356,237; Oct. 19; v. 279; p. 445.
Shade bracket, Window-. F. G. Hogue. No. 1,354,897; Sept. 28; v. 278; p. 669.
Shade bracket, Window-. E. M. Hosse. No. 1,335,114; Mar. 30; v. 272; p. 774.
Shade bracket, Window-. W. G. Lesch. No. 1,363,328; Dec. 28; v. 281; p. 602.
Shade bracket, Window-. H. W. Smith. No 1,341,025; May 25; v. 274; p. 651.
Shade bracket, Window-. C. E. Wickliffe. No. 1,358,270; Nov. 9; v. 280; p. 267.
Shade carrier, Window-. A. C. Vanerka. No. 1,345,293; June 29; v. 275; p. 966.
Shade, curtain, and drapery holder. H. C. Zeltz. No. 1,349,933; Aug. 17; v. 277; p. 476.
Shade-fastening. W. F. Handel. No. 1,363,782; Dec. 28; v. 281; p. 689.
Shade-fixture. F. Grisius. No. 1,330,465; Feb. 10; v. 271; p. 241.
Shade-fixture. W. M. Neale. No. 1,347,966; July 27; v. 276; p. 699.
Shade fixture, Window-. H. E. Manning. No. 1,344,703; June 29; v. 275; p. 853.
Shade-hanger, Adjustable. E. L. Horton. No. 1,359,066; Nov. 16; v. 280; p. 470.
Shade hanger, Window-. W. H. Forse, Jr. No. 1,343,771; June 15; v. 275; p. 540.
Shade-holder. W. E. Hawkins. No. 1,335,437; Mar. 30; v. 272; p. 834.
Shade-holder. J. T. Johnson. No. 1,332,127; Feb. 24; v. 271; p. 641.
Shade-holder. L. F. Maschinot. No. 1,355,493; Oct. 12; v. 279; p. 259.
Shade-holder. T. L. Ryan and O. Sacksteder, Jr. No. 1,333,736; Mar. 16; v. 272; p. 408.
Shade-holder. B. Selwacki. No. 1,342,070; June 1; v. 275; p. 90.
Shade-holder bracket. J. O. Williamson. No. 1,332,013; Feb. 24; v. 271; p. 621.
Shade-holder support. T. Glanding. No. 1,341,845; June 1; v. 275; p. 46.
Shade material, Making painted. J. P. Whitmore. No. 1,341,956; June 1; v. 275; p. 67.
Shade mounting, Window-. L. H. Boch. No. 1,338,168; Apr. 27; v. 273; p. 671.
Shade, Porch-. C. W. Warren. No. 1,336,325; Apr. 6; v. 273; p. 117.
Shade, Reflector-. A. L. Arenberg. No. 1,334,944; Mar. 30; v. 272; p. 741.
Shade-roller. W. C. Fischer. No. 1,355,458; Oct. 12; v. 279; p. 252.
Shade-roller. D. G. Horton. No. 1,352,410; Sept. 7; v. 278; p. 133.
Shade, Roller-. J. Johnstone. No. 1,344,448; June 22; v. 275; p. 738.
Shade-roller. W. Ross. No. 1,359,622; Nov. 23; v. 280; p. 623.

Digitized by Google

Shade-roller. D. E. Schimmel. No. 1,361,778; Dec. 7; v. 281; p. 159.
Shade-roller, Adjustable. E. L. Flemming. No. 1,341,051; May 25; v. 274; p. 656.
Shade-roller, Adjustable. A. A. Mousette. No. 1,345,097; June 29; v. 275; p. 927.
Shade-roller and curtain-pole bracket. A. Kohlenbrand. No. 1,333,426; Mar. 9; v. 272; p. 288.
Shade-roller and curtain-pole bracket. W. F. Leach. No. 1,329,249; Jan. 27; v. 270; p. 572.
Shade-roller and curtain-pole support. A. H. Demming. No. 1,357,964; Nov. 9; v. 280; p. 207.
Shade-roller and curtain pole-supporting bracket. S. Zyskowski. No. 1,357,605; Nov. 2; v. 280; p. 76.
Shade-roller bracket. D. Paulson. No. 1,332,749; Mar. 2; v. 272; p. 110.
Shade-roller bracket, Adjustable. F. H. Blaisdell. No. 1,332,285; Mar. 2; v. 272; p. 21.
Shade-roller lock. W. C. Moors. No. 1,329,092; Jan. 27; v. 270; p. 543.
Shade-roller-operating mechanism. A. B. Collins. No. 1,348,928; Aug. 10; v. 277; p. 206.
Shade-roller support. J. Hernacki. No. 1,352,264; Sept. 7; v. 278; p. 105.
Shade roller, Window-. J. A. Holmes. No. 1,346,406; July 13; v. 276; p. 274.
Shade spring-adjuster, Window-. C. H. Wise. No. 1,341,530; May 25; v. 274; p. 749.
Shade supporter, Window-. H. J. Richards. No. 1,338,591; Apr. 27; v. 273; p. 750.
Shade, Window-. T. J. Burns. No. 1,352,350; Sept. 7; v. 278; p. 122.
Shade, Window-. J. W. Tatum. No. 1,355,273; Oct. 12; v. 279; p. 217.
Shade, Windshield-. A. L. Nash. No. 1,342,347; June 1; v. 275; p. 143.
Shades from upper sashes, Device for supporting window-. W. Lindner. No. 1,361,881; Dec. 14; v. 281; p. 227.
Shading-machine. W. H. Marretts. No. 1,348,653; Aug. 3; v. 277; p. 102.
Shaft-alining device. L. B. Cobb. No. 1,339,919; May 11; v. 274; p. 313.
Shaft and flywheel coupling. A. Werner. No. 1,332,966; Mar. 9; v. 272; p. 203.
Shaft-bearing. A. T. Ball. No. 1,350,953; Aug. 24; v. 277; p. 720.
Shaft-bearing. R. F. Lusk. No. 1,354,259; Sept. 28; v. 278; p. 641.
Shaft-bearing. E. A. Pennoyer. No. 1,360,787; Nov. 30; v. 280; p. 921.
Shaft bearing, Crank-. O. Gammon. No. 1,362,584; Dec. 14; v. 281; p. 365.
Shaft-bracing. D. Barclay and A. M. Dudley. No. 1,349,358; Aug. 10; v. 277; p. 291.
Shaft-clamp. F. J. Pond. No. 1,328,688; Jan. 20; v. 270; p. 437.
Shaft-coupling. R. Carlstedt. No. 1,338,122; Apr. 27; v. 273; p. 663.
Shaft-coupling. C. H. Clark. No. 1,337,642; Apr. 20; v. 273; p. 501.
Shaft-coupling. H. A. Johnson. No. 1,345,446; July 6; v. 276; p. 23.
Shaft-coupling. C. W. McCormick. No. 1,343,272; June 15; v. 275; p. 442.
Shaft-coupling. J. A. Massé. No. 1,334,388; Mar. 23; v. 272; p. 576.
Shaft-coupling. W. E. Schwarzman and F. D. Norman No. 1,338,751; May 4; v. 274; p. 19.
Shaft-coupling. W. E. Sullivan. No. 1,356,024; Oct. 19; v. 279; p. 402.
Shaft-coupling, Adjustable. A. A. Merritt. No. 1,363,140; Dec. 21; v. 281; p. 525.
Shaft-coupling, Flexible. B. E. Thomas. No. 1,326,998; Jan. 6; v. 270; p. 22.
Shaft-coupling, Universal. H. R. Geer. No. 1,351,420; Aug. 31; v. 277; p. 875.
Shaft-coupling, Universal. H. R. Geer. (Reissue.) No. 15,004; Dec. 14; v. 281; p. 365.
Shaft drive, Mono-. J. A. Hagerstrom. No. 1,352,124; Sept. 7; v. 278; p. 79.
Shaft, Flexible. F. L. Berardinelli and T. S. Wikoff. No. 1,330,051; Feb. 10; v. 271; p. 163.
Shaft-guard. A. G. Scism. No. 1,341,595; May 25; v. 274; p. 761.
Shaft-hanger. O. A. J. R. Lippert-Bruenauer. No. 1,361,474; Dec. 7; v. 281; p. 100.
Shaft-hanger or plumber-block. J. D. Waern. No. 1,344,527; June 22; v. 275; p. 754.
Shaft-joint casing. G. F. Murphy. No. 1,352,019; Sept. 7; v. 278; p. 60.
Shaft lock, Arm-binder and elevating control-. J. C. Haldeman. No. 1,328,429; Jan. 20; v. 270; p. 388.
Shaft lubrication, Flexible-. H. P. De Correvont. No. 1,357,965; Nov. 9; v. 280; p. 207.
Shaft lubrication, Flexible-. H. P. De Correvont. No. 1,357,966; Nov. 9; v. 280; p. 207.
Shaft-mounting. A. B. Charles. No. 1,362,848; Dec. 21; v. 281; p. 468.
Shaft-oscillator. J. R. Kenney. No. 1,339,897; May 11; v. 274; p. 309.
Shaft-protector. A. Petersen. No. 1,361,403; Dec. 7; v. 281; p. 85.
Shaft-support for testing purposes. N. W. Akimoff. No. 1,347,316; July 20; v. 276; p. 513.
Shafts, Coupling for detachably connecting coaxial. V. J. Odhner. No. 1,332,229; Mar. 2; v. 272; p. 10.
Shafts, Flexible expansion-coupling for rotary. W. Robertson. No. 1,358,467; Nov. 9; v. 280; p. 308.
Shafts, Gate-operating device for. R. H. Stevens. No. 1,342,832; June 8; v. 275; p. 292.
Shafts, Gland for packing rotating. C. A. Parsons, S. S. Cook, and L. M. Douglas. No. 1,332,062; Feb. 24; v. 271; p. 630.
Shafts, Method of and apparatus for making. E. E. Slick. No. 1,359,625; Nov. 23; v. 280; p. 624.
Shafts, Suspension device for. C. H. Patten. No. 1,329,848; Feb. 3; v. 271; p. 94.
Shafts, Universal joint for drive-. J. E. Tucker. No. 1,362,652; Dec. 21; v. 281; p. 430.
Shafting-coupling. G. Fast. No. 1,356,860; Oct. 26; v. 279; p. 614.
Shafting, Flexible. G. H. Coates. No. 1,328,983; Jan. 27; v. 270; p. 522.
Shafting, Flexible coupling for. J. F. O'Connor. No. 1,345,394; July 6; v. 276; p. 13.
Shafting, Hand-press for. H. C. Urbaner. No. 1,351,358; Aug. 31; v. 277; p. 863.
Shaker and tank-heater. J. K. Oelslager. No. 1,330,717; Feb. 10; v. 271; p. 288.
Shaker, Combination-. S. L. Adelson. No. 1,348,468; Aug. 3; v. 277; p. 66.
Shaker-operating-mechanism. A. L. Steere. No. 1,336,322; Apr. 6; v. 273; p. 116.
Shaker-screen. E. E. Berry. No. 1,344,751; June 29; v. 275; p. 862.
Shaker-screen. E. E. Berry. No. 1,357,307; Nov. 2; v. 280; p. 21.
Shaker-screen. M. Otto. No. 1,358,103; Nov. 9; v. 280; p. 234.
Shaking-screen. C. E. Griswold. No. 1,330,371; Feb. 10; v. 271; p. 223.
Shaking-screen. C. V. Wright. No. 1,344,747; June 29; v. 275; p. 862.
Shaking-table. A. L. Bausman. No. 1,328,483; Jan. 20; v. 270; p. 399.
Shampoo and hair-washing device, Barber's and hairdresser's. F. A. Edwards. No. 1,360,382; Nov. 30; v. 280; p. 841.
Shampooing apparatus. A. Nainka. No. 1,329,058; Jan. 27; v. 270; p. 536.
Shank-piece-laying machine. E. E. Winkley. No. 1,344,781; June 29; v. 275; p. 868.
Shank-stiffener. H. C. Egerton. No. 1,327,091; Jan. 6; v. 270; p. 40.
Shank-stiffener. W. H. Foss. No. 1,361,452; Dec. 7; v. 281; p. 96.
Shank-stiffener. J. E. Peckham. No. 1,352,024; Sept. 7; v. 278; p. 61.
Shank-stiffeners, Method of making. R. E. Bartels. No. 1,362,835; Dec. 21; v. 281; p. 466.
Shark-skins preparatory to tanning, Treating. A. Rogers. No. 1,338,531; Apr. 27; v. 273; p. 739.
Sharpener. H. Hunt. No. 1,329,971; Feb. 3; v. 271; p. 117.
Sharpener. G. W. Phillips. No. 1,337,154; Apr. 13; v. 273; p. 335.
Sharpener. J. M. Roberts. No. 1,335,603; Mar. 30; v. 272; p. 865.
Sharpener, Blade-. H. D. Kempton. No. 1,332,044; Feb. 24; v. 271; p. 627.
Sharpener, Chalk-. H. L. Rosenthal. No. 1,332,068; Feb. 24; v. 271; p. 631.
Sharpener, Disk-. C. E. Bray. No. 1,343,342; June 15; v. 275; p. 455.
Sharpener, Disk-. W. R. Heggs. No. 1,344,888; June 29; v. 275; p. 888.
Sharpener, Disk-. C. B. Hutchins. No. 1,333,112; Mar. 9; v. 272; p. 230.
Sharpener, Disk-. J. J. Schmidt. No. 1,339,048; May 4; v. 274; p. 73.
Sharpener for slicing-machines. H. Stukart. No. 1,331,596; Feb. 24; v. 271; p. 542.
Sharpener, Knife, &c. H. E. Barber. No. 1,360,998; Dec. 7; v. 281; p. 3.
Sharpener, Knife-. S. H. Gallagher. No. 1,352,888; Sept. 14; v. 278; p. 265.
Sharpener, Pencil-. C. Cleveland. No. 1,327,459; Jan. 6; v. 270; p. 107.
Sharpener, Pencil-. J. Sontheimer. No. 1,343,796; June 15; v. 275; p. 545.
Sharpener, Pencil-. C. E. Stone. No. 1,341,943; June 1; v. 275; p. 65.
Sharpener, Pencil-. C. S. Storrer. No. 1,362,055; Dec. 14; v. 281; p. 262.
Sharpener, Pencil-. W. A. Whitney. No. 1,330,105; Feb. 10; v. 271; p. 174.
Sharpener, Post-. C. C. Adams. No. 1,356,031; Oct. 19; v. 279; p. 403.
Sharpener, Razor-. F. Rogowski. No. 1,350,884; Aug. 24; v. 277; p. 706.
Sharpener, Razor-blade. G. G. Floyd. No. 1,334,295; Mar. 23; v. 272; p. 559.
Sharpener, Safety-razor-blade. A. McGall. No. 1,353,485; Sept. 21; v. 278; p. 441.

Digitized by Google

Alphabetical list of inventions—Continued.

Sharpener, Skate-. G. H. Berghman. No. 1,335,818; Apr. 6; v. 273; p. 21.
Sharpener, Skate-. G. H. Berghman. (Reissue.) No. 15,001; Dec. 14; v. 281; p. 365.
Sharpener, Universal tool-. H. Plummer. No. 1,359,271; Nov. 16; v. 280; p. 508.
Sharpening device, Disk-. H. C. Simons. No. 1,350,888; Aug. 24; v. 277; p. 707.
Sharpening device, Lawn-mower-. J. Palas. No. 1,359,192; Nov. 16; v. 280; p. 493.
Sharpening domestic and other knives, Device for use in. A. Cornell. No. 1,342,275; June 1; v. 275; p. 130.
Sharpening machine, Calk-. R. L. Smith. No. 1,335,354; Mar. 30; v. 272; p. 819.
Sharpening machine, Disk-. C. M. Strain. No. 1,352,824; Sept. 7; v. 278; p. 117.
Sharpening machine, Saw-. R. Asmondis. No. 1,327,012; Jan. 6; v. 270; p. 26.
Sharpening machine, Saw-. C. G. Osterlund. No. 1,330,606; Feb. 10; v. 271; p. 267.
Sharpening mechanism, Drill-. P. Schelb. No. 1,349,169; Aug. 10; v. 277; p. 254.
Sharpening or honing ordinary or safety razors, blades, or other light cutting-tools, Device for. H. Watson. No. 1,340,509; May 18; v. 274; p. 482.
Sharpening pick, Millstone-. J. T. Whitener. No. 1,340,589; May 18; v. 274; p. 498.
Sharpening razor-blades, Holder for. J. W. Tompson. No. 1,356,799; Oct. 26; v. 279; p. 601.
Shaving-brush case. A. Ellis. No. 1,347,263; July 20; v. 276; p. 503.
Shaving kit. R. H. Ball. No. 1,357,679; Nov. 2; v. 280; p. 90.
Shaving kit. J. Barrett. No. 1,343,708; June 15; v. 275; p. 527.
Shaving-stick. R. Brown. No. 1,357,026; Oct. 26; v. 279; p. 646.
Shaving-stick holder. H. J. Purple. No. 1,338,156; Apr. 27; v. 273; p. 669.
Shaving-stick holder. R. Siller. No. 1,356,408; Oct. 19; v. 279; p. 478.
Sheaf-carrier. H. W. Morrow. No. 1,331,352; Feb. 17; v. 271; p. 475.
Sheaf-loader. L. R. Long. No. 1,327,834; Jan. 13; v. 270; p. 240.
Sheaf-loader container. R. B. Mason. No. 1,341,239; May 25; v. 274; p. 692.
Sheaf-shocker. W. H. Perrin. No. 1,346,974; July 20; v. 276; p. 446.
Shear-trimmer. J. M. Hilliard. No. 1,328,671; Jan. 20; v. 270; p. 434.
Shears: *See*—
Rice-straw shears.
Shears. C. Baker. No. 1,357,437; Nov. 2; v. 280; p. 45.
Shears. W. C. Bryant. No. 1,330,515; Feb. 10; v. 271; p. 250.
Shears. E. Buell. No. 1,362,599; Dec. 21; v. 281; p. 419.
Shears. T. J. Fegley and G. O. Leopold. No. 1,343,174; June 8; v. 275; p. 341.
Shears. H. E. Goodwin. No. 1,354,968; Oct. 5; v. 279; p. 104.
Shears. D. Johnson. No. 1,350,653; Aug. 24; v. 277; p. 662.
Shears. C. L. Repass. No. 1,345,882; July 6; v. 276; p. 109.
Shears. D. Ruppert. No. 1,333,578; Mar. 9; v. 272; p. 318.
Shears. H. A. W. Smith. No. 1,359,762; Nov. 23; v. 280; p. 652.
Shears. G. P. Yeakel. No. 1,349,180; Aug. 10; v. 277; p. 256.
Shears, Block and bar. B. Quast. No. 1,349,915; Aug. 17; v. 277; p. 472.
Shears, Clamp and guard for metal-. B. P. Hayes. No. 1,330,186; Feb. 10; v. 271; p. 189.
Shears, Clipper-. G. A. La Foutaine. No. 1,343,174; June 8; v. 275; p. 359.
Shears, Gage for sheet-metal. F. E. Munschauer. No. 1,345,802; July 6; v. 276; p. 93.
Shears, Gathering-. A. G. Stone. No. 1,334,816; Mar. 23; v. 272; p. 657.
Shears, Grass-border. H. B. Scott. No. 1,338,873; May 4; v. 274; p. 41.
Shears, Hair-cutting. N. D. Ingram. No. 1,332,296; Mar. 2; v. 272; p. 23.
Shears, Portable. N. P. Tangwall. No. 1,342,473; June 8; v. 275; p. 221.
Shears, Power-operated. J. P. Heil. No. 1,351,569; Aug. 31; v. 277; p. 905.
Shears, Punching-. E. E. Cornell. No. 1,344,488. June 22; v. 275; p. 746.
Shears, Sheep-. F. N. L. Willett. No. 1,348,914; Aug. 10; v. 277; p. 203.
Shears, Sheet-metal. L. B. Whipple. No. 1,353,867; Sept. 21; v. 278; p. 418.
Shearing and mowing machine. P. André. No. 1,351,989; Sept. 7; v. 278; p. 45.
Shearing-machine. E. E. Slick. No. 1,334,718; Mar. 23; v. 272; p. 638.
Shearing-machines, Clamping device for. T. H. Webb and C. J. Rhodes. No. 1,337,675; Apr. 20; v. 273; p. 508.
Shearing machinery. H. Nilsson. No. 1,334,391; Mar. 23; v. 272; p. 577.
Sheave, Balanced. T. A. Coleman. No. 1,351,469; Aug. 31; v. 277; p. 885.
Sheave-block. H. L. Brink. No. 1,337,341; Apr. 20; v. 273; p. 445.
Sheave-carrier. R. H. Beaumont. No. 1,348,691; Aug. 3; v. 277; p. 109.
Sheen-removing apparatus. J. M. Terrell. No. 1,355,366; Oct. 5; v. 279; p. 235.
Sheep-protector and coyote-exterminator. J. Duncombe. No. 1,349,665; Aug. 17; v. 277; p. 425.
Sheet-advancing mechanism. M. A. Droitcour. No. 1,332,718; Mar. 2; v. 272; p. 104.
Sheet and pad, Turning. E. Higdon. No. 1,334,901; Mar. 23; v. 272; p. 674.
Sheet-applying machine. M. B. Diskin. No. 1,355,390; Oct. 12; v. 279; p. 239.
Sheet, blanket, &c. N. G. Holland. No. 1,327,824; Jan. 13; v. 270; p. 238.
Sheet-collating. J. S. Hexter. No. 1,330,871; Feb. 17; v. 271; p. 385.
Sheet-collecting cylinders, Adjustable side grippers for rotary. H. M. Barber. No. 1,356,184; Oct. 19; v. 279; p. 435.
Sheet-control mechanism, Note-. M. W. Obermiller. No. 1,362,262; Dec. 14; v. 281; p. 303.
Sheet-delivery mechanism. W. K. Hodgman. No. 1,332,665; Mar. 2; v. 272; p. 94.
Sheet detector, Plural-. J. R. Blaine. No. 1,350,487; Aug. 24; v. 277; p. 631.
Sheet-drawing apparatus. W. G. Shaw. No. 1,359,200; Nov. 16; v. 280; p. 494.
Sheet feed and cutting machine. R. C. Seymour. No. 1,331,727; Feb. 24; v. 271; p. 566.
Sheet feeding and cutting mechanism. J. N. Tsibides and R. H. Parker. No. 1,347,134; July 20; v. 276; p. 477.
Sheet-feeding machine. C. E. Christophel. No. 1,347,893; July 27; v. 276; p. 685.
Sheet-feeding machine. C. E. Christophel. No. 1,357,612; Nov. 2; v. 280; p. 77.
Sheet-feeding machine. E. F. Hulbert. No. 1,349,133; Aug. 10; v. 277; p. 246.
Sheet-feeding machine. R. E. Kemper. No. 1,357,460; Nov. 2; v. 280; p. 49.
Sheet-feeding mechanism. W. C. Glass. No. 1,327,546; Jan. 6; v. 270; p. 124.
Sheet-feeding mechanism. S. B. Howard. No. 1,335,386; Mar. 30; v. 272; p. 815.
Sheet-feeding mechanism. E. P. Jennings, Jr. No. 1,342,629; June 8; v. 275; p. 250.
Sheet-feeding mechanism. B. F. Upham. No. 1,348,254; Aug. 3; v. 277; p. 25.
Sheet, Flexible reinforced transparent. C. F. Jenkins. No. 1,327,281; Jan. 6; v. 270; p. 75.
Sheet-form material, Machine for cutting. W. F. Simpson. No. 1,344,155; June 22; v. 275; p. 680.
Sheet-gage. J. White and W. Eckhard. No. 1,341,694; June 1; v. 275; p. 16.
Sheet-gripper. W. E. Wegener. No. 1,343,537; June 15; v. 275; p. 493.
Sheet-gripping device. H. E. Leonard. No. 1,356,163; Oct. 19; v. 279; p. 430.
Sheet-guide adjustment. J. R. Blaine. No. 1,345,742; July 6; v. 276; p. 81.
Sheet, Guide-line. E. M. Africa. No. 1,340,100; May 11; v. 274; p. 347.
Sheet-Handling machine. H. M. Barber. No. 1,343,608; June 15; v. 275; p. 507.
Sheet-interfolding machine. G. G. Brown and P. A. Schuchart. No. 1,348,846; Aug. 10; v. 277; p. 190.
Sheet material, Gage for positioning. A. D. Rhodes. No. 1,328,764; Jan. 20; v. 270; p. 451.
Sheet material, Mechanism for clipping holes in. E. B. Allen. No. 1,347,486; July 27; v. 276; p. 603.
Sheet material, Method of and apparatus for molding. H. L. Haskell and J. W. Beiger. No. 1,330,804; Feb. 17; v. 271; p. 372.
Sheet-metal articles, Making edge-corrugated. A. S. Barrows. No. 1,341,967; June 1; v. 275; p. 70.
Sheet-metal can. S. W. Milligan. No. 1,335,007; Mar. 30; v. 272; p. 754.
Sheet-metal can. F. Westerbeck. No. 1,347,665; July 27; v. 276; p. 639.
Sheet-metal construction. H. A. Thomas. No. 1,347,190; July 20; v. 276; p. 488.
Sheet-metal containers, Protectively coating. C. T. Draper. No. 1,346,943; July 20; v. 276; p. 440.
Sheet-metal-covered members, Making. G. C. Hester. No. 1,363,413; Dec. 28; v. 281; p. 617.
Sheet-metal cutter, Rotary. F. Frengle. No. 1,353,526; Sept. 21; v. 278; p. 449.
Sheet metal, Cutting. R. D. Mershon. No. 1,332,445; Mar. 2; v. 272; p. 52.
Sheet-metal-cutting machine. C. P. Buck. No. 1,327,082; Jan. 6; v. 270; p. 38.
Sheet-metal-doubling machine. J. G. Graham. (Reissue.) No. 14,907; July 6; v. 276; p. 154.
Sheet-metal-elbow-forming machine. A. Dieckmann. No. 1,326,916; Jan. 6; v. 270; p. 6.
Sheet-metal fabric. H. O. Davidson. No. 1,359,675; Nov. 23; v. 280; p. 634.

Digitized by Google

Sheet-metal forming and setting machine. G. Sundback. No. 1,331,884; Feb. 24; v. 271; p. 597.
Sheet-metal-forming machine. E. F. Hollarn, L. Hubble, E. G. Everton, and F. Wilcox. No. 1,360,403; Nov. 30; v. 280; p. 845.
Sheet-metal-forming machine, Expansion-roll for. E. H. Scott. No. 1,360,450; Nov. 30; v. 280; p. 855.
Sheet-metal frame. E. F. Johnson. No. 1,361,586; Dec. 7; v. 281; p. 123.
Sheet metal, Hollow projectile shell of. T. E., Jr., and J. B. Murray. No. 1,350,828; Aug. 24; v. 277; p. 697.
Sheet metal, Machine for making articles of. A. Calleson. No. 1,345,664; July 6; v. 276; p. 66.
Sheet-metal machines, Gage for. W. A. Eggers. No. 1,346,185; July 13; v. 276; p. 231.
Sheet metal or cast metal, Enamel for enameling. C. Musiol. No. 1,332,058; Feb. 24; v. 271; p. 629.
Sheet-metal receptacle. C. Hammer. No. 1,335,282; Mar. 30; v. 272; p. 795.
Sheet-metal receptacle. C. G. Schnepel. No. 1,361,350; Dec. 7; v. 281; p. 74.
Sheet-metal shaping. T. M. Harrison. No. 1,329,969; Feb. 3; v. 271; p. 117.
Sheet-metal vehicle-wheel. T. E. Murphy. No. 1,350,827; Aug. 24; v. 277; p. 696.
Sheet-metal wheel. A. Cotton and L. F. Koellner. No. 1,352,723; Sept. 14; v. 278; p. 231.
Sheet-metal wheel. H. J. Foster and E. Gruenfeldt. No. 1,340,220; May 18; v. 274; p. 428.
Sheet-metal wheel. M. Lachman. No. 1,354,310; Sept. 28; v. 278; p. 651.
Sheet metal, wire bolts, &c., Shears for cutting. I. Hultman. No. 1,354,755; Oct. 5; v. 279; p. 61.
Sheet-metal-working machine. O. P. Nystrom. No. 1,332,354; Mar. 2; v. 272; p. 35.
Sheet-metal-working presses, Feeding and delivering mechanism for. H. Miller. No. 1,344,810; June 29; v. 275; p. 874.
Sheet-moving mechanism. C. E. Throop. No. 1,336,598; Apr. 13; v. 273; p. 229.
Sheet-piling, Integral. C. C. Conkling and C. S. Boardman. No. 1,330,340; Feb. 10; v. 271; p. 199.
Sheet-plate-feeding machine. F. F. Clark. No. 1,335,556; Mar. 30; v. 272; p. 856.
Sheet, Printed and folded. S. Brown. No. 1,363,081; Dec. 21; v. 281; p. 513.
Sheet, Proof-. F. J. Runde. No. 1,331,676; Feb. 24; v. 271; p. 557.
Sheet-registering device. H. E. Leonard. No. 1,340,723; May 18; v. 274; p. 522.
Sheet-registering machine. H. E. Leonard. No. 1,340,722; May 18; v. 274; p. 522.
Sheet-rubber liner. A. M. E. Streijffert. No. 1,356,234; Oct. 19; v. 279; p. 445.
Sheet-separating device. E. P. Jennings, Jr. No. 1,342,630; June 8; v. 275; p. 251.
Sheet-straightener, Slow-down. C. E. Christophel. No 1,347,145; July 20; v. 276; p. 479.
Sheet-treating rollers, Supporting device for. C. Bassaler. No. 1,360,076; Nov. 23; v. 280; p. 713.
Sheet-uniting device. A. W. McCurdy. No. 1,350,371; Aug. 24; v. 277; p. 607.
Sheets and apparatus therefor, Delivering. H. A. W. Wood. No. 1,363,031; Dec. 21; v. 281; p. 504.
Sheets, Antismutting device for traveling. B. D. Knowles. No. 1,342,117; June 1; v. 275; p. 99.
Sheets, Apparatus for delivering folded. H. A. W. Wood and A. E. Fay. No. 1,363,030; Dec. 21; v. 281; p. 504.
Sheets, Drier and feeding device for coated or lithographed. H. P. O'Donnell. No. 1,333,769; Mar. 16; v. 272; p. 414.
Sheets, Machine for affixing samples to. W. P. Dun Lany. No. 1,327,665; Jan. 13; v. 270; p. 208.
Sheets, Mechanism for controlling the feeding and printing of. B. F. Upham. No. 1,327,182; Jan. 6; v. 270; p. 57.
Sheeted material, Wind-up device for. J. T. Brogden. No. 1,327,420; Jan. 6; v. 270; p. 100.
Shelf. F. Grammich. No. 1,343,818; June 15; v. 275; p. 549.
Shelf-bracket. C. F. Wood. No. 1,354,270; Sept. 28; v. 278; p. 644.
Shelf-clamp. J. W. Thompson. No. 1,333,515; Mar. 9; v. 272; p. 305.
Shelf-facing. G. H. E. Davis. No. 1,344,223; June 22; v. 275; p. 693.
Shelf-holder. T. A. Johnson. No. 1,347,464; July 20; v. 276; p. 542.
Shelf or rack, Metal. G. E. Dean. No. 1,334,293; Mar. 23; v. 272; p. 558.
Shelf-reacher. J. Pedersen. No. 1,350,331; Aug. 24; v. 277; p. 599.
Shelf-support. A. F. Carlin. No. 1,331,621; Feb. 24; v. 271; p. 547.
Shelving. J. B. O'Connor. No. 1,327,628; Jan. 13; v. 270; p. 201.
Shelving. H. A. Wieman. No. 1,344,106; June 22; v. 275; p. 670.
Shelving, Adjustable. A. H. Levene. No. 1,336,971; Apr. 13; v. 273; p. 300.
Shelving-bracket. J. H. Morgan. No. 1,347,116; July 20; v. 276; p. 473.
Shelving, Metallic. E. C. Staples. No. 1,336,490; Apr. 13; v. 273; p. 208.
Shelving-support. A. Vanderveld. No. 1,327,748; Jan. 13; v. 270; p. 224.
Shell. J. E. Richards. No. 1,350,339; Aug. 24; v. 277; p. 601.
Shell-assembling machine. A. J. Strane. No. 1,334,326; Mar. 23; v. 272; p. 565.
Shell-cases, Method and machine for testing. T. Y. Olsen. No. 1,334,785; Mar. 23; v. 272; p. 651.
Shell casings, Machine for re-forming ammunition. F. Leming. No. 1,351,389; Aug. 31; v. 277; p. 869.
Shell, Elongated cylindrical projectile-. T. E. Murray, Jr. No. 1,329,134; Jan. 27; v. 270; p. 551.
Shell, Explosive. F. H. Barker and G. T. Buckham. No. 1,340,871; May 25; v. 274; p. 621.
Shell, Explosive. A. M. Craig. No. 1,355,130; Oct. 12; v. 279; p. 187.
Shell, Explosive. D. G. Edwards. No. 1,336,828; Apr. 13; v. 273; p. 273.
Shell, Explosive-. W. L. Walker. No. 1,351,078; Aug. 31; v. 277; p. 806.
Shell, Fabric-stock. V. R. Phelps. No. 1,357,345; Nov. 2; v. 280; p. 28.
Shell-filling apparatus. C. A. Woodbury. No. 1,329,565; Feb. 3; v. 271; p. 42.
Shell for machine-guns. M. A. Walker. No. 1,338,802; May 4; v. 274; p. 29.
Shell-forgings, Method of and apparatus for making. F. A. Sherman and J. M. Hall. No. 1,347,415; July 20; v. 276; p. 533.
Shell, Message-. C. Serra. No. 1,356,746; Oct. 26; v. 279; p. 591.
Shell or projectile. J. Morris. No. 1,345,689; July 6; v. 276; p. 71.
Shell-plate-bending machine. S. J. Robison. No. 1,358,396; Nov. 9; v. 280; p. 293.
Shell, Shot-. A. C. Jewett. No. 1,363,043; Dec. 21; v. 281; p. 506.
Shell, Shot-gun. H. T. Peck. No. 1,340,245; May 18; v. 274; p. 432.
Shells and other articles, Mechanism for applying coating to. H. W. Day. No. 1,347,994; July 27; v. 276; p. 704.
Shells and other explosive missiles, Firing mechanism for. G. L. McAlpine. No. 1,337,525; Apr. 20; v. 273; p. 480.
Shells, Buffer for explosive-. J. Lackner. No. 1,331,510; Feb. 24; v. 271; p. 525.
Shells, Detonator for high-explosive. D. J. Cartwright. No. 1,331,623; Feb. 24; v. 271; p. 547.
Shells, Detonator for high-explosive. E. Gathmann. No. 1,340,536. May 18; v. 274; p. 487.
Shells, Machine for applying driving-bands on high-explosive. E. Labitotière. No. 1,346,455; July 13; v. 276; p. 284.
Shells, Machine for automatically nosing in. D. Brown. No. 1,332,798; Mar. 2; v. 272; p. 119.
Shells, Machine for charging. J. Remmen. No. 1,346,064; July 6; v. 276; p. 145.
Shells, Machine for making cartridge-. L. E. Hooker. No. 1,352,194; Sept. 7; v. 278; p. 92.
Shells, Machine for rolling in the base-plates of high-explosive. F. C. and H. G. Southard. No. 1,352,321; Sept. 7; v. 278; p. 117.
Shells, Manufacture of. R. A. Hadfield. No. 1,357,705; Nov. 2; v. 280; p. 95.
Shells, Primer for. C. G. Helby, J. Burkam, D. E. Lindquist, F. L. Riggin, E. W. Allen, and R. Lau. No. 1,331,922; Feb. 24; v. 271; p. 603.
Shells, Producing covered box-. W. A. Weightman and C. H. Nitsch. No. 1,341,954; June 1; v. 275; p. 67.
Shells, Receiving-station for message-. C. Serra. No. 1,363,677; Dec. 28; v. 281; p. 669.
Shellac surrogate and producing same. J. R. Köhler. No. 1,327,332; Jan. 6; v. 270; p. 84.
Shellac to sheet materials, Method and apparatus for applying. R. M. Briggs. (Reissue.) No. 14,833; Apr. 6; v. 273; p. 132.
Sherardizing apparatus. C. J. Kirk. No. 1,327,102; Jan. 6; v. 270; p. 42.
Shield, Auto rain and sun. A. C. Garside. No. 1,360,919; Nov. 30; v. 280; p. 946.
Shield, Detachable. H. H. Illch. No. 1,332,126; Feb. 24; v. 271; p. 641.
Shield, Dress-. H. Weeks. No. 1,350,192; Aug. 17; v. 277; p. 526.
Shield, Erasing-. F. P. Zwicker. No. 1,353,133; Sept. 14; v. 278; p. 312.
Shield, Expansion-. L. R. Zifferer. No. 1,352,494; Sept. 14; v. 278; p. 186.
Shield, Folded metal expansion-. J. E. Ogden. No. 1,350,562; Aug. 24; v. 277; p. 645.
Shield, Glare-. J. Donaldson. No. 1,331,422; Feb. 17; v. 271; p. 488.
Shield, Intake-manifold. H. R. Holton. No. 1,362,796; Dec. 21; v. 281; p. 459.
Shield, Needle-. A. N. Homan. No. 1,360,952; Nov. 30; v. 280; p. 953.
Shield, Radiator-. C. H. Parmelee. No. 1,327,877; Jan. 13; v. 270; p. 247.

Digitized by Google

Alphabetical list of inventions—Continued.

Shield, Storm-. J. Bauer. No. 1,354,874; Sept. 28; v. 278; p. 664.
Shield, Wheel-. E. E. Miller. No. 1,351,261; Aug. 31; v. 277; p. 842.
Shield, Wind-. M. E. N. Ludlow. No. 1,328,388; Jan. 20; v. 270; p. 880.
Shift structure. C. E. Mills. No. 1,355,346; Oct. 12; v. 279; p. 231.
Shifter-block lock. G. C. Jensen. No. 1,348,803; Aug. 3; v. 277; p. 129.
Shifter-device lock. G. C. Jensen. No. 1,329,526; Feb. 3; v. 271; p. 85.
Shifting-plate clamp. C. Henderson. No. 1,362,100; Dec. 14; v. 281; p. 271.
Shim. R. P. Flinn. No. 1,361,319; Dec. 7; v. 281; p. 67.
Shim. J. A. Sharpnack. No. 1,359,438; Nov. 16; v. 280; p. 542.
Shingle. A. R. Lukens, Jr. No. 1,348,503; Aug. 3; v. 277; p. 72.
Shingle. H. H. Robertson. No. 1,358,113; Nov. 9; v. 280; p. 236.
Shingle. F. Schmitte. No. 1,343,792; June 15; v. 275; p. 544.
Shingle-bundles and the like, Cover-board for. C. S. Bird. No. 1,359,569; Nov. 23; v. 280; p. 613.
Shingle-cutting machine. A. Nylund. No. 1,350,879; Aug. 24; v. 277; p. 705.
Shingle, Flexible. A. A. Griswold. No. 1,359,167; Nov. 16; v. 280; p. 488.
Shingle-holding device. J. Jansma. No. 1,339,458; May 11; v. 274; p. 226.
Shingle machine, Composite-tapered-. R. A. Plumb. No. 1,343,581; June 15; v. 275; p. 502.
Shingle-rebaling machine. J. Norris and J. I. Pearsall. No. 1,346,241; July 13; v. 276; p. 241.
Shingle, Roof-. C. E. Rahr. No. 1,340,348; May 18; v. 274; p. 451.
Shingle, Strip-. H. Abraham. No. 1,326,899; Jan. 6; v. 270; p. 3.
Shingle-strips, Making. F. C. Overbury. No. 1,340,402; May 18; v. 274; p. 462.
Shingles, Machine and making fiber. H. Wulff. No. 1,356,500; Oct. 19; v. 279; p. 495.
Shingles, Machine for making composite. O. Altpeter. No. 1,352,931; Sept. 14; v. 278; p. 273.
Shingles, Method and means for making asbestos. A. Crook and R. D. Chapman. No. 1,352,941; Sept. 14; v. 278; p. 275.
Shingles, Support for. R. R. Mabie. No. 1,345,683; July 6; v. 276; p. 70.
Ship. J. Arbuthnot. No. 1,343,491; June 15; v. 275; p. 484.
Ship. F. H. Clark and M. M. Whitaker. No. 1,334,349; Mar. 23; v. 272; p. 569.
Ship. A. Gussi. No. 1,363,039; Dec. 21; v. 281; p. 505.
Ship. R. Ogawa. No. 1,357,509; Nov. 2; v. 280; p. 58.
Ship and joining the sections, Sectional. J. Nacey. No. 1,338,246; Apr. 27; v. 273; p. 686.
Ship-cleaning device, Power. W. J. Pattosien. No. 1,349,167; Aug. 10; v. 277; p. 253.
Ship construction. F. Bogucki. No. 1,332,199; Mar. 2; v. 272; p. 4.
Ship construction. R. S. Chew. No. 1,330,517; Feb. 10; v. 271; p. 250.
Ship construction. L. J. Hagen. No. 1,353,235; Sept. 21; v. 278; p. 392.
Ship construction. R. F. Hartung. No. 1,343,392; June 15; v. 275; p. 465.
Ship construction. G. Magnuson. No. 1,354,671; Oct. 5; v. 279; p. 45.
Ship construction. J. M. Thompson. No. 1,352,998; Sept. 14; v. 278; p. 287.
Ship construction. Cement. I. Wilding. No. 1,353,880; Sept. 28; v. 278; p. 563.
Ship construction. Scaffold for. D. McLeod. No. 1,334,662; Mar. 23; v. 272; p. 627.
Ship-fender. Y. Nakabayashi. No. 1,339,663; May 11; v. 274; p. 265.
Ship indicator, Sunken-. J. Hlavaty, Jr. No. 1,352,000; Sept. 7; v. 278; p. 57.
Ship-launching control device. J. G. Sjoberg. No. 1,339,293; May 4; v. 274; p. 118.
Ship mold, Reinforced-concrete-. G. E. Kastengren. No. 1,345,013; June 29; v. 275; p. 912.
Ship-plates, Apparatus for drawing together. S. R. Gilmore. No. 1,354,390; Sept. 28; v. 278; p. 667.
Ship propulsion, Electric. H. M. Hobart. No. 1,331,940; Feb. 24; v. 271; p. 607.
Ship-propulsion installation. D. C. Black. No. 1,336,018; Apr. 6; v. 273; p. 60.
Ship-propulsion installation. D. C. Black. No. 1,336,019; Apr. 6; v. 273; p. 60.
Ship-propulsion installation. D. C. Black. No. 1,336,020; Apr. 6; v. 273; p. 60.
Ship-protecting device. E. A. Smith. No. 1,338,706; May 4; v. 274; p. 11.
Ship-protector. J. Pabich. No. 1,347,120; July 20; v. 276; p. 474.
Ship-protector. P. Sangoff. No. 1,344,151; June 22; v. 275; p. 679.
Ship-raising apparatus. M. Dray. No. 1,332,384; Mar. 2; v. 272; p. 41.
Ship, Reinforced-concrete. K. Bartels. No. 1,356,056; Oct. 26; v. 279; p. 632.
Ship-salvage device. T. Davidenia. No. 1,351,100; Aug. 31; v. 277; p. 811.
Ship-salvage device. K. Galeski. No. 1,352,950; Sept. 14; v. 278; p. 276.
Ship-salvage device. M. Hyszka. No. 1,337,601; Apr. 20; v. 273; p. 494.
Ship-salvage device. M. Sliwinski. No. 1,333,783; Mar. 16; v. 272; p. 417.
Ship-salvaging. C. O. Knudsen. No. 1,328,484; Jan. 20; v. 270; p. 389.
Ship-steering apparatus. P. A. Johnson. No. 1,339,850; May 11; v. 274; p. 300.
Ship the depth of sea-water, System of electrically indicating on board. Y. Kawakita. No. 1,335,738; Apr. 6; v. 273; p. 7.
Ships against attacks of submarines, Meane of defense for. P. Perrone. No. 1,346,720; July 13; v. 276; p. 337.
Ships against mines and the like, Apparatus for the protection of. C. V. Usborne. No. 1,355,718; Oct. 12; v. 279; p. 302.
Ships against torpedo attack, Protection of. L. E. Whiton. No. 1,339,372; May 4; v. 274; p. 133.
Ships and boats, Propelling and draft-reducing mechanism for. C. Driscoll. No. 1,347,148; July 20; v. 276; p. 480.
Ships, Apparatus for raising. W. F. Grumme. No. 1,344,505; June 22; v. 275; p. 749.
Ships, barges, floating structures, &c., Mode of constructing reinforced-concrete. E. O. Williams. No. 1,353,107; Sept. 14; v. 278; p. 307.
Ships, Boat supporting and launching apparatus for. R. G. Clark. No. 1,344,754; June 29; v. 275; p. 863.
Ships, boats, and flying-machines, Propulsion of. S. V. Cortés. No. 1,360,182; Nov. 23; v. 280; p. 734.
Ships, Building concrete. A. Richley. No. 1,327,739; Jan. 13; v. 270; p. 222.
Ships, Buoyant life-saving fitting and appliance for. P. Churchill. No. 1,351,836; Sept. 7; v. 278; p. 24.
Ships, Buoyant life-saving fitting and appliance for. P. Churchill. No. 1,359,152; Nov. 16; v. 280; p. 485.
Ship's chair. S. S. Koyama. No. 1,358,640; Nov. 9; v. 280; p. 342.
Ships' cleaning implements, Traveler for. E. C. Villiers. No. 1,362,518; Dec. 14; v. 281; p. 352.
Ship's construction and disposing propelling machinery therein. G. Simpson and J. R. Gordon. No. 1,355,513; Oct. 12; v. 279; p. 263.
Ships, Construction of. W. Alderson. No. 1,349,800; Aug. 17; v. 277; p. 451.
Ships, Construction of. G. Harter. No. 1,359,059; Nov. 16; v. 280; p. 469.
Ships, Construction of. G. V. Montaruli. No. 1,345,213; June 29; v. 275; p. 950.
Ships, Construction of. G. V. Montaruli. No. 1,346,760; July 13; v. 276; p. 345.
Ships, Construction of concrete. A. A. Guerini. No. 1,356,064; Oct. 19; v. 279; p. 410.
Ships, Cooling air in submarine and submersible. H. E. Yarrow. No. 1,327,509; Jan. 6; v. 270; p. 117.
Ships' courses, Apparatus for laying off or ascertaining. H. Brynge and H. Hammer. No. 1,330,839; Feb. 17; v. 271; p. 378.
Ships, Crow's-nest for. A. E. De Save. No. 1,354,383; Sept. 28; v. 278; p. 666.
Ship's davit. H. B. Hills. No. 1,351,571; Aug. 31; v. 277; p. 905.
Ships' decks, bulkheads, walls, floors, ceilings, &c., Covering or insulation for. J. Davies, W. H. Jones, J. Davies, and H. J. Hale. No. 1,336,683; Apr. 13; v. 273; p. 245.
Ships, Device for locating sunken. G. Alexovits. No. 1,337,383; Apr. 20; v. 273; p. 453.
Ships, Device for raising sunken. P. Kawinski. No. 1,331,014; Feb. 17; v. 271; p. 413.
Ships, Device for unloading cargo from. G. L. Douglass. No. 1,333,065; Mar. 9; v. 272; p. 221.
Ships, Distance and speed indicator for. K. T. F. Jung. No. 1,354,832; Oct. 5; v. 279; p. 77.
Ships' gyroscopes, Controlling mechanism for. E. A. Sperry. No. 1,342,397; June 1; v. 275; p. 152.
Ships, Gyroscopic apparatus for. H. H. Thompson. No. 1,330,503; Feb. 10; v. 271; p. 248.
Ship's-hull construction. F. W. Gore. No. 1,339,755; May 11; v. 274; p. 283.
Ships in groups or convoys, Protection of. R. Rau. No. 1,357,473; Nov. 2; v. 280; p. 51.
Ships, Means for preventing the sinking of. A. Drekolias. No. 1,355,656; Oct. 12; v. 279; p. 290.
Ships, Means for propelling and steering. C. de Cazen. No. 1,337,442; Apr. 20; v. 273; p. 463.
Ships, Means for protecting. J. P. Roe. No. 1,338,530; Apr. 27; v. 273; p. 739.
Ships, Molding concrete. E. Freyssinet. No. 1,349,826; Aug. 17; v. 277; p. 455.
Ships or other structures, Supporting of outside staging used during the construction of. G. W. MacIlwaine. No. 1,341,335; May 25; v. 274; p. 711.
Ships, Propulsion and steering of. E. S. G. Rees. No. 1,344,518; June 22; v. 275; p. 752.

Digitized by Google

Ships, Protecting apparatus for. J. A. V. Ricordi. No. 1,355,267; Oct. 12; v. 279; p. 215.
Ships, Safety appliance for. A. S. Terhaar. No. 1,354,069; Sept. 28; v. 278; p. 602.
Ships, Safety-compartment for. Y. K. Buell. No. 1,328,122; Jan. 13; v. 270; p. 294.
Ship's side light or window. D. Dundas. No. 1,357,625; Nov. 2; v. 280; p. 80.
Ships, Swing-derrick for. O. Kahrs. No. 1,330,077; Feb. 10; v. 271; p. 168.
Ships, Torpedo-net for. C. F. Dathan. No. 1,347,363; July 20; v. 276; p. 523.
Ships, Towing device for use with. C. V. Usborne. No. 1,240,924; May 25; v. 274; p. 631.
Ships, Turbine installation for. E. D. Dickinson. No. 1,328,497; Jan. 20; v. 270; p. 402.
Ships' walls, Cutting holes in. W. J. Jones. No. 1,351,518; Aug. 31; v. 277; p. 894.
Shipper-lock. J. L. Hyland. No. 1,361,061; Dec. 7; v. 281; p. 16.
Shipping and dispensing container. L. J. Freundt. No. 1,351,900; Sept. 7; v. 278; p. 38.
Shipping and displaying merchandise, Case for. H. G. Isaacs and L. H. Hays. No. 1,360,532; Nov. 30; v. 280; p. 871.
Shipping apparatus, Vehicle-. R. Z. Hopkins. No. 1,339,890; May 11; v. 274; p. 308.
Shipping-box. E. C. Potter. No. 1,344,147; June 22; v. 275; p. 678.
Shipping box or crate, Collapsible. H. K. Shirley. No. 1,345,264; June 29; v. 275; p. 960.
Shipping-boxes, Package pocket-guard for. W. L. Ephlin. No. 1,361,318; Dec. 7; v. 281; p. 67.
Shipping-case. R. J. Boyd. No. 1,351,739; Sept. 7; v. 278; p. 5.
Shipping-case. R. J. Boyd. No. 1,351,740; Sept. 7; v. 278; p. 5.
Shipping-case. L. W. Kennard. No. 1,356,453; Oct. 19; v. 279; p. 486.
Shipping-case. H. J. Williams. No. 1,329,032; Jan. 27; v. 270; p. 531.
Shipping case and basket construction. W. F. Sabel. No. 1,358,581; Nov. 9; v. 280; p. 330.
Shipping-case and display-rack, Combined. G. H. Wilkins. No. 1,352,490; Sept. 14; v. 278; p. 185.
Shipping-crate. B. A. Stamp. No. 1,362,645; Dec. 21; v. 281; p. 429.
Shipping-packages, Filler for. F. Kronenberger. No. 1,331,509; Feb. 24; v. 271; p. 525.
Shipping-packages, Means for binding. S. C. Cary and V. Ragona. No. 1,350,137; Aug. 17; v. 277; p. 515.
Shipping-receptacle. G. W. Beadle. No. 1,362,282; Dec. 14; v. 281; p. 307.
Shipbuilding, Bevel-square for. K. O. Olsen. No. 1,341,435; May 25; v. 274; p. 730.
Shipbuilding, Wedging-block for. R. Sanches. No. 1,350,844; Aug. 24; v. 277; p. 699.
Shirt. H. H. Herst. No. 1,342,906; June 8; v. 275; p. 307.
Shirt. J. M. van Heusen. No. 1,352,704; Sept. 14; v. 278; p. 228.
Shirt. J. Hurwitz. No. 1,327,476; Jan. 6; v. 270; p. 111.
Shirt. N. Kaplan. No. 1,337,917; Apr. 20; v. 273; p. 554.
Shirt. J. P. Mullane. No. 1,350,169; Aug. 17; v. 277; p. 521.
Shirt attachment. E. T. Whiter. No. 1,346,733; July 13; v. 276; p. 339.
Shirt bosom and body machine. C. H. Boyuls. No. 1,357,218; Nov. 2; v. 280; p. 4.
Shirt-folding table. C. E. Waream and D. H. Benjamin. No. 1,351,079; Aug. 31; v. 277; p. 807.
Shirt-reinforce. Y. K. Buell. No. 1,331,418; Feb. 17; v. 271; p. 487.
Shirt sleeves, Detachable cuff for. I. N. Strumph. No. 1,349,987; Aug. 17; v. 277; p. 486.
Shirts, Simultaneously cutting and sewing. J. P. Weis. No. 1,342,009; June 1; v. 275; p. 77.
Shock-absorber. N. F. Beck. No. 1,343,027; June 8; v. 275; p. 331.
Shock-absorber. J. R. Blake. No. 1,328,812; Jan. 27; v. 270; p. 489.
Shock-absorber. G. G. F. Boswell. No. 1,352,651; Sept. 14; v. 278; p. 217.
Shock-absorber. G. G. F. Boswell. No. 1,353,513; Sept. 21; v. 278; p. 496.
Shock-absorber. G. G. F. Boswell. No. 1,353,514; Sept. 21; v. 278; p. 447.
Shock-absorber. G. G. F. Boswell. No. 1,360,083; Nov. 23; v. 280; p. 715.
Shock-absorber. W. D. Brown. No. 1,346,739; July 13; v. 276; p. 340.
Shock-absorber. J. R. Caynor. No. 1,363,309; Dec. 28; v. 281; p. 598.
Shock-absorber. H. A. Danforth. No. 1,352,724; Sept. 14; v. 278; p. 232.
Shock-absorber. T. Davis. No. 1,337,345; Apr. 20; v. 273; p. 446.
Shock-absorber. T. Davis. No. 1,337,346; Apr. 20; v. 273; p. 446.
Shock-absorber. A. C. Dunn. No. 1,351,843; Sept. 7; v. 278; p. 26.
Shock-absorber. D. W. Durbin. No. 1,351,558; Aug. 31; v. 277; p. 902.
Shock-absorber. J. W. Fitzgerald. No. 1,333,592; Mar. 9; v. 272; p. 320.
Shock-absorber. J. H. Hamer. No. 1,352,955; Sept. 14; v. 278; p. 277.
Shock-absorber. E. V. Hartford. No. 1,343,970; June 22; v. 275; p. 644.
Shock-absorber. P. Hien. No. 1,338,371; Apr. 27; v. 273; p. 709.
Shock-absorber. G. E. Higgins. No. 1,359,701; Nov. 23; v. 280; p. 639.
Shock-absorber. T. A. Hutsell. No. 1,334,455; Mar. 23; v. 272; p. 589.
Shock-absorber. O. S. Jeffries, Sr. No. 1,350,313; Aug. 24; v. 277; p. 596.
Shock-absorber. B. R. Killian. No. 1,334,247; Mar. 16; v. 272; p. 503.
Shock-absorber. I. T. Leager. No. 1,356,533; Oct. 26; v. 279; p. 549.
Shock-absorber. J. A. McCaskell. No. 1,332,506; Mar. 2; v. 272; p. 64.
Shock-absorber. E. E. McCollum. No. 1,341,274; May 25; v. 274; p. 699.
Shock-absorber. W. M. McDowell. No. 1,354,980; Oct. 5; v. 279; p. 106.
Shock-absorber. M. Mallory. No. 1,332,739; Mar. 2; v. 272; p. 108.
Shock-absorber. R. C. Morey. No. 1,339,780; May 11; v. 274; p. 287.
Shock-absorber. S. Munson. No. 1,332,915; Mar. 9; v. 272; p. 193.
Shock-absorber. E. V. Myers. No. 1,335,290; Mar. 30; v. 272; p. 806.
Shock-absorber. M. H. Naber. No. 1,344,593; June 22; v. 275; p. 767.
Shock-absorber. J. C. Nichols and E. Ryder. No. 1,334,890; Mar. 23; v. 272; p. 577.
Shock-absorber. L. H. Oberreich. No. 1,361,479; Dec. 7; v. 281; p. 101.
Shock-absorber. J. F. O'Connor. No. 1,329,795; Feb. 3; v. 271; p. 84.
Shock-absorber. C. Pardee. No. 1,336,534; Apr. 13; v. 273; p. 216.
Shock-absorber. M. G. Reed. No. 1,356,471; Oct. 19; v. 279; p. 490.
Shock-absorber. B. Regenbrecht. No. 1,329,678; Feb. 3; v. 271; p. 62.
Shock-absorber. J. T. Richards. No. 1,348,581; Aug. 3; v. 277; p. 87.
Shock-absorber. C. F. Rodin. No. 1,359,106; Nov. 16; v. 280; p. 477.
Shock-absorber. H. H. Russell. No. 1,333,449; Mar. 9; v. 272; p. 293.
Shock-absorber. O. R. Schwantes. No. 1,333,040; Mar. 9; v. 272; p. 216.
Shock-absorber. H. Smith and L. L. Carpenter. No. 1,354,465; Oct. 5; v. 279; p. 4.
Shock-absorber. G. A. Starkweather. No. 1,339,484; May 11; v. 274; p. 231.
Shock-absorber. O. M. Summers. No. 1,335,188; Mar. 30; v. 272; p. 779.
Shock-absorber. L. D. Sutton. No. 1,341,395; May 25; v. 274; p. 723.
Shock-absorber. F. Tatar. No. 1,331,885; Feb. 24; v. 271; p. 597.
Shock-absorber. L. H. Van Briggle. No. 1,328,641; Jan. 20; v. 270; p. 428.
Shock-absorber. J. F. Wagoner. No. 1,328,700; Jan. 20; v. 270; p. 439.
Shock-absorber. P. S. Weaver. No. 1,338,270; Apr. 27; v. 273; p. 690.
Shock-absorber. F. M. White. No. 1,358,666; Nov. 9; v. 280; p. 347.
Shock-absorber. C. A. Wiberg. No. 1,347,138; July 20; v. 276; p. 478.
Shock-absorber and axle-reinforcement. J. D. Teller. No. 1,337,291; Apr. 20; v. 273; p. 435.
Shock-absorber and dynamometer for power transmissions. A. J. Kloneck. No. 1,346,546; July 13; v. 276; p. 302.
Shock-absorber and rebound-snubber for vehicle-springs, Combined. G. J. Oltsch. No. 1,350,110; Aug. 17; v. 277; p. 510.
Shock-absorber. Automobile. J. V. Dawson. No. 1,347,939; July 27; v. 276; p. 693.
Shock-absorber, Automobile. S. E. White. No. 1,332,478; Mar. 2; v. 272; p. 58.
Shock-absorber for vehicles. W. N. Amory. No. 1,341,407; May 25; v. 274; p. 725.
Shock-absorber, Pneumatic. C. H. Cox. No. 1,328,496; Jan. 20; v. 270; p. 402.
Shock-absorber, Pneumatic. J. Hofmann. No. 1,354,482; Oct. 5; v. 279; p. 7.
Shock-absorber, Railway-crossing. R. R. Hargrave. No. 1,343,869; June 15; v. 275; p. 560.
Shock-absorber, Spring. F. L. Spring. No. 1,328,601; Jan. 20; v. 270; p. 421.
Shock-absorber spring and blank therefor. N. Schachter. No. 1,352,540; Sept. 14; v. 278; p. 194.
Shock-absorber, Transmission. E. C. Middleton. No. 1,349,082; Aug. 10; v. 277; p. 236.

Digitized by Google

Alphabetical list of inventions—Continued.

Shock-absorbing apparatus. H. A. and W. T. Soulis. No. 1,331,537; Feb. 24; v. 271; p. 530.
Shock-absorbing container. O. S. Munts. No. 1,328,758; Jan. 20; v. 270; p. 450.
Shock-absorbing heel. T. M. Conger. No. 1,368,568; Dec. 28; v. 281; p. 648.
Shock-absorbing mechanism. H. N. Fullenweider. No. 1,332,391; Mar. 2; v. 272; p. 42.
Shock-absorbing mechanism, Friction. J. R. Mitchell. No. 1,355,993; Oct. 19; v. 279; p. 396.
Shock-absorbing mechanism, Friction. J. R. Mitchell. No. 1,355,994; Oct. 19; v. 279; p. 396.
Shock-absorbing mechanism, Friction. J. F. O'Connor. No. 1,341,150; May 25; v. 274; p. 675.
Shock-absorbing mechanism, Friction. J. F. O'Connor. No. 1,345,393; July 6; v. 276; p. 13.
Shock-absorbing mechanism, Friction. J. F. O'Connor. No. 1,356,002; Oct. 19; v. 279; p. 397.
Shock-absorbing mechanism, Friction. J. F. O'Connor. No. 1,357,801; Nov. 2; v. 280; p. 114.
Shock-absorbing mechanism, Friction. J. F. O'Connor. No. 1,357,803; Nov. 2; v. 280; p. 115.
Shock-absorbing mechanism, Friction. J. F. O'Connor. No. 1,360,434; Nov. 30; v. 280; p. 852.
Shock-absorbing mechanism, Tandem. S. B. Haseltine. No. 1,355,967; Oct. 19; v. 279; p. 391.
Shock-absorbing mechanism, Tandem. J. F. O'Connor. No. 1,356,004; Oct. 19; v. 279; p. 398.
Shock-absorbing spring. F. L. Spring. No. 1,336,167; Apr. 6; v. 273; p. 88.
Shock-absorbing spring, Compound. A. S. Kux. No. 1,351,044; Aug. 31; v. 277; p. 801.
Shock-absorbing wheel. A. L. Carroll. No. 1,350,642; Aug. 24; v. 277; p. 661.
Shock-absorbing wheel. E. J. Gould. No. 1,343,774; June 15; v. 275; p. 541.
Shock-absorbing wheel and tire, Flexible. R. R. à Court Beadon. No. 1,344,990; June 29; v. 275; p. 907.
Shock-controller. C. B. Billinghurst. No. 1,330,512; Feb. 10; v. 271; p. 250.
Shock-eliminator. R. T. Newton. No. 1,329,993; Feb. 3; v. 271; p. 121.
Shock-former. A. R. Peterson. No. 1,348,046; July 27; v. 276; p. 715.
Shock forming and making machine. J. L. Culkin. No. 1,361,307; Dec. 7; v. 281; p. 65.
Shock-holder. D. A. Haas. No. 1,343,624; June 15; v. 275; p. 510.
Shock-loader. W. C. Hill. No. 1,342,959; June 8; v. 275; p. 317.
Shock-loader. H. Henderson. No. 1,338,369; Apr. 27; v. 273; p. 709.
Shock-loaders, Frame-elevating means for. N. P. Albertson. No. 1,337,874; Apr. 20; v. 273; p. 546.
Shock-tying device. W. J. Hensel. No. 1,358,845; Nov. 16; v. 280; p. 427.
Shocker. C. H. Groves. No. 1,343,775; June 15; v. 275; p. 541.
Shocker. J. H. Prall. No. 1,341,586; May 25; v 274; p. 760.
Shocker attachment. C. W. Griffin. No. 1,361,322; Dec. 7; v. 281; p. 68.
Shockers, Auxiliary buffer for. C. R. Raney. No. 1,328,795; Jan. 20; v. 270; p. 457.
Shocking-machine. I. Birkeland. No. 1,357,269; Nov. 2; v. 280; p. 13.
Shocking-machine. W. H. Church. No. 1,332,104; Feb. 24; v. 271; p. 637.
Shocking-machine attachment. W. H. Church. No. 1,341,167; May 25; v. 274; p. 678.
Shoe. W. D. Burke. No. 1,335,156; Mar. 30; v. 272; p. 782.
Shoe. C. P. Coscia. No. 1,351,414; Aug. 31; v. 277; p. 874.
Shoe. E. W. Dunbar. No. 1,348,136; July 27; v. 276; p. 733.
Shoe. P. J. Finneran. No. 1,355,827; Oct. 19; v. 279; p. 364.
Shoe. J. T. B. Gillenwaters. No. 1,328,665; Jan. 20; v. 270; p. 433.
Shoe. M. S. Hess. No. 1,354,971; Oct. 5; v. 279; p. 104.
Shoe. M. S. Hess. No. 1,354,972; Oct. 5; v. 279; p. 104.
Shoe. J. C. Jardine and J. Dickie. No. 1,336,855; Apr. 6; v. 273; p. 128.
Shoe. W. M. Jessup. No. 1,341,323; May 25; v. 274; p. 708.
Shoe. I. Klingenberg. No. 1,360,228; Nov. 23; v. 280; p. 743.
Shoe. W. L. Mann. No. 1,328,333; Jan. 20; v. 270; p. 370.
Shoe. E. J. Ramsey. No. 1,333,995; Mar. 16; v. 272; p. 457.
Shoe. A. J. Schneider. No. 1,345,407; July 6; v. 276; p. 16.
Shoe. E. F. Selz. No. 1,333,737; Mar. 16; v. 272; p. 408.
Shoe. S. Strauss. No. 1,331,220; Feb. 17; v. 271; p. 451.
Shoe. J. Tanguay. No. 1,362,970; Dec. 21; v. 281; p. 491.
Shoe. G. E. Warren. No. 1,346,146; July 13; v. 276; p. 223.
Shoe. H. Westling. No 1,349,744; Aug. 17; v. 277; p. 440.
Shoe. H. Westling. No. 1,349,745; Aug. 17; v. 277; p. 441.
Shoe-adapted. O. H. Abbott. No. 1,354,936; Oct. 5; v. 279; p. 97.
Shoe and counter therefor, Welt-. J. B. Hadaway. No. 1,337,219; Apr. 20; v. 273; p. 422.
Shoe and making same. J. A. Green. No. 1,348,941; Aug. 10; v. 277; p. 209.
Shoe and making same. J. F. Marshall. No. 1,336,784; Apr. 13; v. 273; p. 265.
Shoe and making same, Rubber. G. L. Lawrence, Jr. No. 1,352,008; Sept. 7; v. 278; p. 58.
Shoe and puttee, Combined. H. C. Dyer. No. 1,361,755; Dec. 7; v. 281; p. 155.
Shoe, Arch-supporting. W. W. McCoy. No. 1,335,172; Mar. 30; v. 272; p. 785.
Shoe attachment. P. Haag. No. 1,346,019; July 6; v. 276; p. 137.
Shoe attachment. W. Wood. No. 1,350,197; Aug. 17; v. 277; p. 527.
Shoe attachment to facilitate walking. F. D. Anderson. No. 1,360,995; Dec. 7; v. 281; p. 3.
Shoe, Bathing-. S. W. Lundin and J. Friedman. No. 1,335,287; Mar. 30; v. 272; p. 806.
Shoe-beating machine. F. E. Bertrand and P. J. Wentworth. No. 1,331,797; Feb. 24; v. 271; p. 580.
Shoe-blacking stand. J. J. Webb. No. 1,357,666; Nov. 2; v. 280; p. 88.
Shoe-blanks, Making. S. J. Wentworth. No. 1,361,941; Dec. 14; v. 281; p. 239.
Shoe-bottom-filling machine. A. Thoma. No. 1,335,705; Mar. 30; v. 272; p. 884.
Shoe-bottom, Rubber. W. MacPherson. No. 1,350,930; Aug. 24; v. 277; p. 715.
Shoe, Brake-. F. Sargent. No. 1,328,594; Jan. 20; v. 270; p. 420.
Shoe, Brake-. F. Sargent. No. 1,328,595; Jan. 20; v. 270; p. 420.
Shoe, Brake-. F. Sargent. No. 1,328,596; Jan. 20; v. 270; p. 420.
Shoe-buckle holder. C. F. Colby. No. 1,333,466; Mar. 9; v. 272; p. 297.
Shoe-button remover. J. Vertunni and O. S. Eller. No. 1,341,203; May 25; v. 274; p. 686.
Shoe-calk. D. S. Williams. No. 1,355,201; Oct. 12; v. 279; p. 202.
Shoe-cleaner. R. J. Craig. No. 1,336,284; Apr. 6; v. 273; p. 109.
Shoe-cleaner. D. Korcek. No. 1,357,641; Nov. 2; v. 280; p. 83.
Shoe cleaning and ironing jack. H. G. Bendix and P. J. Specce. No. 1,356,425; Oct. 19; v. 279; p. 481.
Shoe-cleaning machine. W. Raginia. No. 1,335,888; Mar. 30; v. 272; p. 825.
Shoe-closing device. S. O. Tymus. No. 1,338,341; Apr. 27; v. 273; p. 704.
Shoe, Combination rail-. D. W. Bowe. No. 1,329,363; Feb. 3; v. 271; p. 5.
Shoe, Contact-. H. V. Rudolph. No. 1,361,407; Dec. 7; v. 281; p. 85.
Shoe-corset. R. G. Woodham. No. 1,358,488; Nov. 9; v. 280; p. 312.
Shoe-counter. J. Jones. No. 1,351,172; Aug. 31; v. 277; p. 825.
Shoe-counter-softening machine. J. E. McElwee and E. J. O'Neill. No. 1,331,656; Feb. 24; v. 271; p. 553.
Shoe-dauber. J. F. Kelly. No. 1,340,775; May 18; v. 274; p. 532.
Shoe-fastener. C. M. Cook. No. 1,348,392; Aug. 3; v. 277; p. 52.
Shoe-fastener. P. Ferris. No. 1,348,703; Aug. 3; v. 277; p. 111.
Shoe-fastener. F. W. Moore. No. 1,361,796; Dec. 7; v. 281; p. 163.
Shoe-fastener. V. C. Santos. No. 1,353,424; Sept. 21; v. 278; p. 429.
Shoe-fastening. G. A. Moon. No. 1,358,647; Nov. 9; v. 280; p. 343.
Shoe-fastening device. J. McDonald. No. 1,336,146; Apr. 6; v. 273; p. 84.
Shoe-filling machine. O. D. Hogue. No. 1,329,407; Feb. 3; v. 271; p. 12.
Shoe-flexing machine. A. F. Bancroft. No. 1,331,232; Feb. 17; v. 271; p. 453.
Shoe-form. E. A. Burns. No. 1,330,428; Feb. 10; v. 271; p. 234.
Shoe-form. J. F. Collins and L. B. Weston. No. 1,346,296; July 13; v. 276; p. 253.
Shoe-form. M. T. Kaldenberg. No. 1,332,499; Mar. 2; v. 272; p. 63.
Shoe-form. P. J. McGrath. No. 1,358,963; Nov. 16; v. 280; p. 451.
Shoe-grip. W. De Vito. No. 1,361,969; Dec. 14; v. 281; p. 245.
Shoe-heater. W. H. Baynard and F. W. Eager. No. 1,358,695; Nov. 16; v. 280; p. 398.
Shoe-heel and attachment therefor. J. B. Clifton. No. 1,363,643; Dec. 28; v. 281; p. 662.
Shoe-heel-holding apparatus. P. Miller. No. 1,355,840; Oct. 19; v. 279; p. 366.
Shoe-heeling method. A. Perri. No. 1,345,023; June 29; v. 275; p. 913.

Digitized by Google

Shoe-holder. J. M. McCray. No. 1,339,520; May 11; v. 274; p. 238.
Shoe-holder, Trunk. G. H. Wheary. No. 1,332,012; Feb. 24; v. 271; p. 621.
Shoe-insole Z. J. Montgomery. No. 1,340,906; May 25; v. 274; p. 628.
Shoe key and button. J. Smolarski. No. 1,355,176; Oct. 12; v. 279; p. 197.
Shoe-lace, Elastic. B. F. Killam and S. Schlesinger. No. 1,358,753; Nov. 16; v. 280; p. 409.
Shoe-lace fastener. C. Swanson. No. 1,363,693; Dec. 28; v. 281; p. 672.
Shoe-lace hanger. R. M. Kempf. No. 1,347,277; July 20; v. 276; p. 506.
Shoe-lace holder. A. G. Hall. No. 1,331,914; Feb. 24; v. 271; p. 602.
Shoe-lace hook. R. E. McCallen. No. 1,363,523; Dec. 28; v. 281; p. 639.
Shoe-lace-tie retainer. B. E. Fay. No. 1,344,998; June 29; v. 275; p. 908.
Shoe-lace tip. E. B. Fink. No. 1,364,044; Dec. 28; v. 281; p. 740.
Shoe-lace tip. J. Pavelka. No. 1,340,669; May 18; v. 274; p. 513.
Shoe-lace tip. M. B. Sickles. No. 1,341,940; June 1; v. 275; p. 64.
Shoe-laces, Device for affixing tips to. A. Zuckerman. No. 1,363,949; Dec. 28; v. 281; p. 722.
Shoe-laces, Machine for tipping. S. Norden. No. 1,348,660; Aug. 3; v. 277; p. 103.
Shoe-laces, Tip-fastener for. E. Viertels. No. 1,327,892; Jan. 13; v. 270; p. 250.
Shoe, Laced. A. L. Schopper. No. 1,340,503; May 18; v. 274; p. 481.
Shoe-last. J. C. Schelter. No. 1,350,340; Aug. 24; v. 277; p. 601.
Shoe-last, Adjustable. G. R. Hurt. No. 1,333,981; Mar. 16; v. 272; p. 454.
Shoe-machine. O. R. Angell. No. 1,339,591; May 11; v. 274; p. 251.
Shoe-maker's tool. A. H. Racicot. No. 1,363,014; Dec. 21; v. 281; p. 500.
Shoe manufacture. H. W. Stedler. No. 1,359,847; Nov. 23; v. 280; p. 668.
Shoe, Muck-. W. J. Curry. No. 1,343,436; June 15; v. 275; p. 473.
Shoe, Mud-. G. M. Glenn. No. 1,359,887; Nov. 23; v. 280; p. 676.
Shoe, Mud-. G. L. Lauer. No. 1,349,514; Aug. 10; v. 277; p. 322.
Shoe-operating machine. M. Brock and T. H. Seely. No. 1,363,305; Dec. 28; v. 281; p. 598.
Shoe or sandal. Wooden. P. Demarmels and A. Winkler. No. 1,341,498; May 25; v. 274; p. 743.
Shoe parts, Device for holding and carrying. D. L. Bender. No. 1,357,439; Nov. 2; v. 280; p. 45.
Shoe-polish box. H. E. Everett. No. 1,342,537; June 8; v. 275; p. 233.
Shoe-polisher. C. L. Gibbens. No. 1,330,313; Feb. 10; v. 271; p. 212.
Shoe-polisher. J. Mork. No. 1,343,466; June 15; v. 275; p. 479.
Shoe-polisher. W. E. Sheehy. No. 1,351,136; Aug. 31; v. 277; p. 878.
Shoe-polishing machine. V. Raschella. No. 1,329,677; Feb. 3; v. 271; p. 62.
Shoe-pounding machine. A. F. Froussard. No. 1,338,434; Apr. 27; v. 273; p. 721.
Shoe-press, Pneumatic. C. J. Stuart. No. 1,337,532; Apr. 20; v. 273; p. 481.
Shoe-presser. F. J. Ruff and W. R. Ekins. No. 1,334,968; Mar. 30; v. 272; p. 746.
Shoe-protector. A. Henry and G. V. B. Fricke. No. 1,328,957; Jan. 27; v. 270; p. 518.
Shoe-protector. O. W. Peters. No. 1,345,875; July 6; v. 276; p. 107.
Shoe, Rubber. A. M. Bruce. No. 1,335,273; Mar. 30; v. 272; p. 803.
Shoe, Rubber. F. A. Joseph. No. 1,336,962; Apr. 13; v. 273; p. 299.
Shoe, Rubber. C. T. and A. K. Thompson. No. 1,361,926; Dec. 14; v. 281; p. 236.
Shoe, Rubber-sole. G. Ferguson. No. 1,348,163; Aug. 3; v. 277; p. 6.
Shoe, Running-. D. J. Golden. No. 1,333,409; Mar. 9; v. 272; p. 285.
Shoe-securing device. E. F. Elliot. No. 1,344,996; June 29; v. 275; p. 908.
Shoe-shank piece. H. F. Crawford. No. 1,359,036; Nov. 16; v. 280; p. 464.
Shoe-shaping machine. C. M. Bradford and R. C. Simmons. No. 1,331,613; Feb. 24; v. 271; p. 545.
Shoe-shining device, Power-driven. G. S. Groves. No. 1,332,123; Feb. 24; v. 271; p. 640.
Shoe-shining machine. C. Caldes. No. 1,343,032; June 8; v. 275; p. 332.
Shoe-shining machine. V. N. Vogt. No. 1,330,665; Feb. 10; v. 271; p. 278.
Shoe-shining stand. N. J. Greenison. No. 1,328,667; Jan. 20; v. 270; p. 433.
Shoe-sole. H. C. Egerton. No. 1,352,730; Sept. 14; v. 278; p. 233.
Shoe-sole. A. T. Saunders. No. 1,330,552; Feb. 10; v. 271; p. 257.
Shoe sole and heel. G. Ajello. No. 1,363,076; Dec. 21; v. 281; p. 513.
Shoe-sole and laying out same. H. J. Tuinder. No. 1,362,157; Dec. 14; v. 281; p. 282.
Shoe-sole-cutting machine. T. H. Graydon. (Reissue.) No. 14,876; June 8; v. 275; p. 362.
Shoe-sole, Flexible and resilient. J. B. Frechette. No. 1,348,706; Aug. 3; v. 277; p. 111.
Shoe-sole for turn-shoes, Rubber. H. C. Egerton. No. 1,352,736; Sept. 14; v. 278; p. 234.
Shoe-sole, Gripping. H. C. Egerton. No. 1,352,731; Sept. 14; v. 278; p. 233.
Shoe-sole, Partially-stiffened. H. C. Egerton. No. 1,352,737. Sept. 14; v. 278; p. 234.
Shoe-sole protector. D. Marinsky. No. 1,343,329; June 15; v. 275; p. 452.
Shoe-sole, Rubber. A. T. Saunders. No. 1,361,907; Dec. 14; v. 281; p. 239.
Shoe-soles, Machine for operating upon. J. H. Rigsby. No. 1,351,065; Aug. 31; v. 277; p. 804.
Shoe-soles, Making seams for. F. N. La Chapelle. No. 1,330,879; Feb. 17; v. 271; p. 387.
Shoe, Spudding-. W. L. Settle. No. 1,340,420; May 18; v. 274; p. 466.
Shoe-stiffener. J. L. McClellan. No. 1,353,968; Sept. 28; v. 278; p. 581.
Shoe-stiffener. C. E. Swett. No. 1,348,968; Aug. 10; v. 277; p. 214.
Shoe-stretcher. R. M. Elmstrom. No. 1,335,226; Mar. 30; v. 272; p. 794.
Shoe-stretcher. A. B. Elmstrom. No. 1,349,333; Aug. 10; v. 277; p. 286.
Shoe-stretcher. H. Waters. No. 1,340,994; May 25; v. 274; p. 645.
Shoe-support. V. Di Maggio. No. 1,346,008; July 6; v. 276; p. 134.
Shoe-taps, Reinforcement for the shank edges of. H. Bruck. No. 1,341,880; June 1; v. 275; p. 52.
Shoe-tip. M. Kemper. No. 1,355,747; Oct. 12; v. 279; p. 307.
Shoe-tip gage. W. A. Turner. No. 1,363,293; Dec. 28; v. 281; p. 595.
Shoe-tip-measuring mechanism. O. Ashton. No. 1,346,156; July 13; v. 276; p. 225.
Shoe-tongue pad. R. A. Fox. No. 1,355,323; Oct. 12; v. 279; p. 226.
Shoe-tongue pad. E. A. Guinzburg. No. 1,332,331; Mar. 2; v. 272; p. 29.
Shoe-tree. A. R. Anderson. No. 1,343,891; June 22; v. 275; p. 629.
Shoe-tree. A. R. Anderson. No. 1,356,509; Oct. 26; v. 279; p. 545.
Shoe-tree. J. D. Dunfield. No. 1,353,827; Sept. 21; v. 278; p. 410.
Shoe-truing iron, Electrically heated. E. N. Chandler. No. 1,348,263; Aug. 3; v. 277; p. 27.
Shoe, Turned. F. W. Homan. No. 1,350,156; Aug. 17; v. 277; p. 519.
Shoe-turning machine. E. I. La Chapelle. No. 1,336,750; Apr. 13; v. 273; p. 258.
Shoe-uppers, Handling-horse for. M. A. Hayward. No. 1,359,370; Nov. 16; v. 280; p. 528.
Shoe-uppers, Machine for lacing. H. E. Enslin. No. 1,338,910; May 4; v. 274; p. 48.
Shoe-uppers, Machine for marking. A. W. Brice and I. E. Booth. (Reissue.) No. 14,966; Oct. 26; v. 279; p. 682.
Shoe-uppers, Member for. W. F. Lautenschlager. No. 1,351,722; Aug. 31; v. 277; p. 934.
Shoe-vamp. G. E. Musebeck. No. 1,333,213; Mar. 9; v. 272; p. 249.
Shoe, Wooden-sole working-. G. W. Miller. No. 1,338,947; May 4; v. 274; p. 55.
Shoes and other forms of footwear, Making. P. J. Wentworth. No. 1,353,877; Sept. 28; v. 278; p. 563.
Shoes, Antifriction-transfer for. J. A. Casey. No. 1,334,991; Mar. 30; v. 272; p. 751.
Shoes, Antislipping attachment for. A. L. Ulrich. No. 1,329,064; Jan. 27; v. 270; p. 537.
Shoes, Antislipping device for. N. P. J. C. Carlslund. No. 1,362,225; Dec 14; v. 281; p. 296.
Shoes, Antislipping device for. J. H. Lynn. No. 1,361,078; Dec. 7; v. 281; p. 19.
Shoes, Forming-clamp for two-piece snow-. W. W. Felter. No. 1,352,362; Sept. 7; v. 278; p. 124.
Shoes, Heel attachment for. H. A. Williams. No. 1,343,602; June 15; v. 275; p. 506.
Shoes, Machine for lasting stitchdown-. F. H. Perry. No. 1,363,265; Dec. 28; v. 281; p. 590.
Shoes, Machine for steaming the toes of. F. A. Baum. No. 1,357,023; Oct. 26; v. 279; p. 645.
Shoes, Making. K. Engel. No. 1,360,277; Nov. 30; v. 280; p. 822.
Shoes, Making. J. Fausse. No. 1,328,322; Jan. 20; v. 270; p. 369.
Shoes, Making. J. J. Heys. No. 1,341,746; June 1; v. 275; p. 27.
Shoes, Making. R. F. McFeely. No. 1,356,539; Oct. 26; v. 279; p. 550.

Digitized by Google

Shoes, Making. H. E. Martin. No. 1,334,159; Mar. 16; v. 272; p. 487.
Shoes, Making. T. J. O'Keeffe. No. 1,332,230; Mar. 2; v. 272; p. 10.
Shoes, Making. G. Pollock. (Reissue.) No. 14,882; June 15; v. 275; p. 564.
Shoes, Making. W. C. Stewart. No. 1,342,469; June 8; v. 275; p. 220.
Shoes, Making. F. E. Toothaker. No. 1,359,636; Nov. 23; v. 280; p. 626.
Shoes, Making casing-. J. J. Larkin. No. 1,347,013; July 27; v. 276; p. 708.
Shoes, Manufacture of welt-. G. H. Black. No. 1,353,308; Sept. 21; v. 278; p. 406.
Shoes, Manufacturing felt. L. A. Wolff. No. 1,344,930; June 29; v. 275; p. 896.
Shoes, Means for use in fitting. W. M. Halbach. No. 1,338,623; Apr. 27; v. 373; p. 756.
Shoes on lasts, Machine for mounting. A. Bourgeois. No. 1,360,084; Nov. 23; v. 280; p. 715.
Shoes, Pull-strap for laced. W. H. Avis. No. 1,342,149; June 1; v. 275; p. 105.
Shoes, Repairing turned. W. A. Owens. (Reissue.) No. 14,811; Mar. 2; v. 272; p. 134.
Shoes, Snap-fasteners for. S. Tadakuma. No. 1,343,942; June 22; v. 275; p. 639.
Shoes, Softening device for. N. Scarponi. (Reissue.) No. 14,812; Mar. 2; v. 272; p. 134.
Shoes, Vacuum-cleaner for. W. W. Karro. No. 1,361,068; Dec. 7; v. 281; p. 17.
Shoemaker's jack. L. L. Berg. No. 1,353,985; Sept. 28; v. 278; p. 585.
Shoemaker's machine. H. Muinonen. No. 1,333,561; Mar. 9; v. 272; p. 314.
Shoestring-fastener. M. Workman. No. 1,331,308; Feb. 17; v. 271; p. 466.
Shoestring-fastening device. L. C. Bullock, Jr. No. 1,348,475; Aug. 3; v. 277; p. 67.
Shoestring-retainer. D. R. Westlake. No. 1,335,471; Mar. 30; v. 272; p. 840.
Shooting-trap. A. McMillan. No. 1,332,735; Mar. 2; v. 272; p. 107.
Shop-box. A. A. Tuttle. No. 1,338,051; Apr. 27; v. 273; p. 649.
Shop-control system. J. F. Diepenbrock. No. 1,340,216; May 18; v. 274; p. 427.
Shop-pan truck. O. C. Davis. No. 1,363,499; Dec. 28; v. 281; p. 634.
Shopping-bag. E. Wisniewska. No. 1,341,404; May 25; v. 274; p. 724.
Shore-protector. S. Clarke. No. 1,352,429; Sept. 14; v. 278; p. 172.
Shoring. O. J. Westman. No. 1,330,290; Feb. 10; v. 271; p. 207.
Short-circuiting mechanism. J. L. Tonge. No. 1,327,259; Jan. 6; v. 270; p. 71.
Shorthand-machine. W. S. Ireland. No. 1,339,346; May 4; v. 274; p. 128.
Shot, Collapsible sling-. J. Smithwick. No. 1,345,561; July 6; v. 276; p. 46.
Shot-firing device. W. F. Schmidt. No. 1,351,794; Sept. 7; v. 278; p. 15.
Shot shells or cartridges, Wads for. C. S. Bird. No. 1,337,993; Apr. 27; v. 273; p. 638.
Shot, Sling-. R. L. Jones. No. 1,346,754; July 13; v. 276; p. 344.
Shotgun. H. H. Deitrich. No. 1,362,478; Dec. 14; v. 281; p. 344.
Shotgun and like gun. J. L. Joiris. No. 1,351,952; Sept. 7; v. 278; p. 48.
Shotgun choke attachment. F. X. Schuster. No. 1,348,750; Aug. 3; v. 277; p. 119.
Shotgun, Repeating. J. L. Cox. No. 1,355,316; Oct. 12; v. 279; p. 225.
Shoulder-rest, Adjustable. S. G. Green. No. 1,357,232; Nov. 2; v. 280; p. 7.
Shoulder-strap. H. S. Marks. No. 1,330,739; Feb. 10; v. 271; p. 292.
Shovel: *See*—

Excavating-shovel.	Power-shovel.
Mine-shovel.	Sifting-shovel.
Plow-shovel	Toy steam-shovel.
Pneumatic shovel.	Truck power-shovel.

Shovel. W. S. De Camp. No. 1,355,541; Oct. 12; v. 279; p. 268.
Shovel and ash-sifter, Combined. D. C. Jacobus. No. 1,357,709; Nov. 2; v. 280; p. 96.
Shovel attachment. J. Zaokipny. No. 1,346,870; July 20; v. 276; p. 425.
Shovel-testing machine. M. Hokanson. No. 1,350,458; Aug. 24; v. 277; p. 625.
Shovel trip, Steam-. C. E. Houghton. No. 1,348,719; Aug. 3; v. 277; p. 114.
Shovels, Bucket-lathe for. W. J. Newman. No. 1,347,967; July 27; v. 276; p. 699.
Shovels, Footplate for. A. Gibson. No. 1,331,495; Feb. 24; v. 271; p. 522.
Shoveling-machine. F. H. Armstrong. No. 1,360,997; Dec. 7; v. 281; p. 3.
Shoveling-machine. M. M. Bohen. No. 1,353,142; Sept. 21; v. 278; p. 374.
Show and sales case. L. W. Buchenau. No. 1,359,668; Nov. 23; v. 280; p. 632.
Show-case. S. M. Debakey. No. 1,337,049; Apr. 13; v. 273; p. 316.
Show-case. W. Peerenboom. No. 1,328,542; Jan. 20; v. 270; p. 410.
Show-case, Adjustable. A. O. Johnson. No. 1,345,367; July 6; v. 276; p. 8.
Show-case lock. H. Nagler. No. 1,352,680; Sept. 14; v. 278; p. 223.
Show-case lock. E. W. Way. No. 1,350,047; Aug. 17; v. 277; p. 498.
Show-case, Refrigerator. C. W. Hinrichs. No. 1,356,283; Oct. 19; v. 279; p. 454.
Show-pen, Stock-exhibiting. J. Sommer. No. 1,330,404; Feb. 10; v. 271; p. 229.
Shower and cleaning device. G. E. Treese. No. 1,343,008; June 22; v. 275; p. 652.
Shower-bath attachment. H. B. Pitcher. No. 1,331,370; Feb. 17; v. 271; p. 478.
Shutter. R. H. Richardson. No. 1,363,672; Dec. 28; v. 281; p. 668.
Shutter-actuating apparatus. H. B. Emmrick. No. 1,344,997; June 29; v. 275; p. 908.
Shutter-adjusting device. L. C. Pagenhardt. No. 1,328,759; Jan. 20; v. 270; p. 450.
Shutter, Automatic safety-. F. E. Cawley. No. 1,359,230; Nov. 16; v. 280; p. 500.
Shutter, Camera-. J. H. Klenck. No. 1,329,714; Feb. 3; v. 271; p. 69.
Shutter, Camera-. J. H. Klenck. No. 1,329,715; Feb. 3; v. 271; p. 69.
Shutter, Collapsible fireproof. J. W. Whitson. No. 1,330,224; Feb. 10; v. 271; p. 196.
Shutter, Focal-plane. E. C. Bass. (Reissue.) No. 14,837; Apr. 13; v. 273; p. 340.
Shutter-hanger. C. T. J. Giles. No. 1,357,162; Oct. 26; v. 279; p. 672.
Shutter, Kinetoscopic. J. F. Gordon. No. 1,340,887; May 25; v. 274; p. 624.
Shutter, Multiple-aperture. P. J. Marks. No. 1,329,424; Feb. 3; v. 271; p. 15.
Shutter-operating device. E. Prescott. No. 1,329,927; Feb. 3; v. 271; p. 109.
Shutter, Photographic. W. A. Riddell and F. A. G. Pirwitz. No. 1,341,823; June 1; v. 275; p. 42.
Shutter, Rolling. H. E. Peelle. No. 1,357,819; Nov. 2; v. 280; p. 118.
Shuttle. J. H. Coulter. No. 1,360,185; Nov. 23; v. 280; p. 735.
Shuttle. J. B. Daudelin. No. 1,356,047; Oct. 19; v. 279; p. 406.
Shuttle. E. H. Daudelin. No. 1,363,233; Dec. 28; v. 281; p. 583.
Shuttle. M. P. Du Pray. No. 1,357,969; Nov. 9; v. 280; p. 208.
Shuttle. J. B. Hancq. No. 1,327,954; Jan. 13; v. 270; p. 262.
Shuttle. J. McCann. No. 1,346,037; July 6; v. 276; p. 140.
Shuttle. T. Matloob. No. 1,344,553; June 22; v. 275; p. 759.
Shuttle. N. W. Nilson. No. 1,350,172; Aug. 17; v. 277; p. 522.
Shuttle. J. H. Oliver. No. 1,354,265; Sept. 28; v. 278; p. 643.
Shuttle. J. C. Shambow. No. 1,340,568; May 18; v. 274; p. 403.
Shuttle. I. Snow. No. 1,344,734; June 29; v. 275; p. 859.
Shuttle. P. Spencer. No. 1,345,898; July 6; v. 276; p. 112.
Shuttle, Automatically-threading. H. W. Hakes. No. 1,327,709; Jan. 13; v. 270; p. 216.
Shuttle-check, Cushion-spring. D. E. Skedgell. No. 1,341,941; June 1; v. 275; p. 64.
Shuttle-clamp. L. O. Roberts. No. 1,360,582; Nov. 30; v. 280; p. 881.
Shuttle-driving. Device for imparting reciprocating movements for. F. Souczek. No. 1,358,474; Nov. 9; v. 280; p. 309.
Shuttle-guard device. J. F. Cumberland. No. 1,364,038; Dec. 28; v. 281; p. 738.
Shuttle, Pick take-up. A. R. Eanes, Jr. No. 1,338,820; May 4; v. 274; p. 32.
Shuttle, Self-threading. W. B. Brown. No. 1,356,513; Oct. 26; v. 279; p. 546.
Shuttle, Tatting-. W. T. Thorp. No. 1,349,741; Aug. 17; v. 277; p. 440.
Shuttle, Tatting-. L. Wolle. No. 1,345,303; June 29; v. 275; p. 968.
Shuttle-tension. R. E. Enos. No. 1,340,330; May 18; v. 274; p. 448.
Shuttle tension. W. S. Wells. No. 1,354,362; Sept. 28; v. 278; p. 662.
Shuttle tension device. A. Wild. No. 1,350,630; Aug. 24; v. 277; p. 659.
Shuttle thread-eye. G. M. Cheney and L. C. Harwood. No. 1,337,389; Apr. 20; v. 273; p. 454.
Shuttle-throwing mechanism. N. Pepin. No. 1,363,914; Dec. 28; v. 281; p. 715.
Shuttle-tip fastener. M. Mitchell. No. 1,339,572; May 11; v. 274; p. 248.

Digitized by Google

Shuttles, Machinery for truing loom-. J. Altmann. No. 1,327,515; Jan. 6; v. 270; p. 119.
Sickle. V. B. Brown. No. 1,358,460; Sept. 21; v. 278; p. 433.
Sickle. R. R. Zahnter. No. 1,342,869; June 1; v. 275; p. 147.
Sickle-bar. W. F. Aidlotte. No. 1,340,868; May 25; v. 274; p. 621.
Side-force and danger indicator. M. J. Klein. No. 1,356,823; Oct. 26; v. 279; p. 606.
Side frame. F. H. Moyer. No. 1,349,624; Aug. 17; v. 277; p. 417.
Side-frame arrangement. H. E. Doerr. No. 1,343,618; June 15; v. 275; p. 509.
Siding-machine. T. Larsson. No. 1,361,794; Dec. 7; v. 281; p. 163.
Sieve. S. L. Bateman. No. 1,347,489; July 27; v. 276; p. 604.
Sieve. E. J. Ouellette. No. 1,361,772; Dec. 7; v. 281; p. 158.
Sieve-cleaning device. N. G. Ek. No. 1,341,798; June 1; v. 275; p. 36.
Sieve, Power-. R. G. Lowe. No. 1,357,292; Nov. 2; v. 280; p. 18.
Sifter and funnel, Combined. H. H. Hoops. No. 1,333,419; Mar. 9; v. 272; p. 287.
Sifter, Ash-. W. Bytzka. No. 1,357,610; Nov. 2; v. 280; p. 77.
Sifter, Ash-. P. J. Brennan. No. 1,357,143; Oct. 26; v. 279; p. 669.
Sifter, Ash-. J. Chytracek. No. 1,354,243; Sept. 28; v. 278; p. 638.
Sifter, Ash-. P. Corley. No. 1,348,783; Aug. 3; v. 277; p. 126.
Sifter, Ash-. T. F. Fitzberger. No. 1,351,877; Aug. 31; v. 277; p. 867.
Sifter, Ash-. J. A. Kessel. No. 1,352,667; Sept. 14; v. 278; p. 220.
Sifter, Ash-. I. Lunenfeld. No. 1,351,296; Aug. 31; v. 277; p. 850.
Sifter, Ash-. R. Mason. No. 1,356,385; Oct. 19; v. 279; p. 474.
Sifter, Ash-. B. M. Moser. No. 1,354,835; Oct. 5; v. 279; p. 77.
Sifter, Ash-. C. Notter. No. 1,350,080; Aug. 17; v. 277; p. 504.
Sifter, Coal-. W. H. Laraway. No. 1,361,267; Dec. 7; v. 281; p. 57.
Sifter, Dustless ash-. C. G. Fette. No. 1,347,151; July 20; v. 276; p. 480.
Sifter, Flour-. C. E. Baldwin. No. 1,358,920; Nov. 16; v. 280; p. 443.
Sifter, Flour-. C. O. Nepstad. No. 1,354,415; Sept. 28; v. 278; p. 672.
Sifter, Flour-. C. H. Roberson. No. 1,330,722; Feb. 10; v. 271; p. 289.
Sifter, Flour-. J. Tonstad and H. Finsness. No. 1,347,064; July 20; v. 276; p. 464.
Sifter, Flour-. J. F. Trumbo. No. 1,357,129; Oct. 26; v. 279; p. 666.
Sifter, Household. E. M. Beckman. No. 1,345,058; June 29; v. 275; p. 920.
Sifter, Sand-. R. G. Lowe. No. 1,354,319; Sept. 28; v. 278; p. 653.
Sifter, Vacuum ash-. A. E. Roever. No. 1,355,508; Oct. 12; v. 279; p. 262.
Sifting and separating device. C. Wildhaber. No. 1,331,303; Feb. 17; v. 271; p. 465.
Sifting device, Ash-. A. Elkins. No. 1,344,493; June 22; v. 275; p. 747.
Sifting device, Ash-. A. Elkins. No. 1,351,631; Aug. 31; v. 277; p. 916.
Sifting-shovel. J. C. Bandini. No. 1,341,874; June 1; v. 275; p. 51.
Sight. J. L. Bumpas and P. Falcke. No. 1,327,141; Jan. 6; v. 270; p. 49.
Sight-feed lubricator. S. Bozo. No. 1,359,151; Nov. 16; v. 280; p. 485.
Sight-feed lubricator. W. W. Douglas and S. L. Bailey. No. 1,346,942; July 20; v. 276; p. 440.
Sight-gage and valve, Combined. M. H Shoenberg. No. 1,346,725; July 13; v. 276; p. 337.
Sight-tube. G. A. Mickelson. No. 1,357,887; Nov. 2; v. 280; p. 131.
Sighting apparatus. E. Schneider. No. 1,354,851; Oct. 5; v. 279; p. 81.
Sighting device. M. Bartholdy. No. 1,364,021; Dec. 28; v. 281; p. 735.
Sighting instrument. M. F. Hay. No. 1,350,225; Aug. 17; v. 277; p. 532.
Sign. J. C. Boyd. No. 1,329,454; Feb. 3; v. 271; p. 21.
Sign. G. L. Eldridge. No. 1,350,302; Aug. 24; v. 277; p. 594.
Sign. G. E. Fuller. No. 1,336,517; Apr. 13; v. 273; p. 213.
Sign. F. W. Gay. No. 1,362,284; Dec. 14; v. 281; p. 307.
Sign. S. Gibby. No. 1,352,661; Sept. 14; v. 278; p. 219.
Sign. P. Hottenstein. No. 1,352,065; Sept. 7; v. 278; p. 68.
Sign. T. O. Jorgensen. No. 1,357,457; Nov. 2; v. 280, p. 48.
Sign. A. Kornicker. No. 1,359,510; Nov. 23; v. 280; p. 601.
Sign. J. C. Monahan. No. 1,357,409; Nov. 2; v. 280; p. 40.
Sign. W. Reid. No. 1,348,739; Aug. 3; v. 277; p. 117.
Sign. G. Schwesinger, Jr. No. 1,361,911; Dec. 14; v. 281; p. 233.
Sign. W. I. Sherwood. No. 1,329,635; Feb. 3; v. 271; p. 54.
Sign. E. O. Sterns. No. 1,326,985; Jan. 6; v. 270; p. 20.
Sign. J. W. Stonehouse. No. 1,348,065; July 27; v. 276; p. 719.
Sign, Advertising-. F. A. Root. No. 1,338,582; Apr. 27; v. 273; p. 789.
Sign and holder therefor. H. P. Andresen. No. 1,335,870; Apr. 6; v. 273; p. 81.
Sign, Automatic display-. J. B. Barnett. No. 1,336,411; Apr. 13; v. 273; p. 193.
Sign-board. A. F. Kruschke. No. 1,358,000; Nov. 9; v. 280; p. 214.
Sign character. E. Holmes. No. 1,349,670; Aug. 17; v. 277; p. 426.
Sign, Display-. A. L. Schwartsberg. No. 1,330,142; Feb. 10; v. 271; p. 181.
Sign device, Moving-. G. E. McMaster. No. 1,359,084; Nov. 16; v. 280; p. 473.
Sign, Electric. A. Blum. No. 1,330,677; Feb. 10; v. 271; p. 280.
Sign, Electric. P. J. Kenegy. No. 1,343,141; June 8; v. 275; p. 353.
Sign, Electric. M. E. Launbranch. No. 1,339,566; May 11; v. 274; p. 246.
Sign, Electric. W. Recke. No. 1,359,274; Nov. 16; v. 280; p. 509.
Sign, Electric. W. Swallow. No. 1,338,198; Apr. 27; v. 273; p. 677.
Sign-exhibiting machine. A. J. Freeman. No. 1,329,705; Feb. 3; v. 271; p. 66.
Sign-exhibiting means. L. E. Wilcox. No. 1,354,638; Oct. 5; v. 279; p. 39.
Sign fastener and protector, Centrally operated, sidewalk-. S. Emerson, Sr. No. 1,356,056; Oct. 19; v. 279; p. 408.
Sign-holder. M. J. Demuth. No. 1,359,492; Nov. 23; v. 280; p. 597.
Sign, Illuminated. J. G. Arnold. No. 1,341,251; May 25; v. 274; p. 694.
Sign, Illuminated. E. P. Cherry. No. 1,353,516; Sept. 21; v. 278; p. 447.
Sign, Illuminated. A. S. Limpert. No. 1,348,816; Aug. 3; v. 277; p. 131.
Sign, Illuminated. T. A. Nolan. No. 1,330,604; Feb. 10; v. 271; p. 266.
Sign, Illuminated. G. H. Schaffner. No. 1,352,031; Sept. 7; v. 278; p. 62.
Sign, Interchangeable road-. A. W. Buss. No. 1,343,247; June 15; v. 275; p. 437.
Sign mechanism. C. Roberts. No. 1,336,585; Apr. 13; v. 273; p. 226.
Sign-projector. R. H. Smith. No. 1,332,999; Mar. 9; v. 272; p. 209.
Sign, Traffic-. G. W. Bennett. No. 1,331,691; Feb. 24; v. 271; p. 559.
Sign, Traveling illuminated display-. H. M. Crippen. No. 1,329,653; Feb. 3; v. 271; p. 57.
Sign, Universal. A. F. Brandenburg. No. 1,334,591; Mar. 23; v. 272; p. 614.
Signs, Apparatus for operating vehicle-warning. A. W. Olds. No. 1,358,102; Nov. 9; v. 280; p. 254.
Signs, Changeable. W. T. Rogers. No. 1,362,542; Dec. 14; v. 281; p. 357.
Signboard. F. W. Gibson. No. 1,342,538; June 8; v. 275; p. 234.
Signboard. J. H. Hopffgarten. No. 1,363,736; Dec. 28; v. 281; p. 680.
Signal: *See*—
Alarm-signal.
Auto-signal.
Auto block-signal.
Auto direction-signal.
Auto-theft signal.
Auto traffic-signal.
Automatic signal.
Automatic safety-signal.
Automobile-signal.
Automobile alarm-signal.
Automobile danger-signal.
Automobile direction-signal.
Automobile pilot-signal.
Automobile rear signal.
Automobile stop-signal.
Automobile theft-signal.
Automobile traffic-signal.
Automobile warning-signal.
Automobilist's caution-signal.
Car-signal.
Car-door signal.
Crossing-signal.
Direction-signal.
Electric display-signal.
Fishing-signal.
Highway-signal.
Highway-crossing signal.
Highway danger-signal.
Light-signal.
Mail-box signal.
Motor-vehicle signal.
Pneumatic signal.
Railway-signal.
Railway-cab signal.
Railway-crossing signal.
Railway-crossing warning-signal.
Road-signal.
Safety-signal.
Semaphore-signal.
Street-traffic signal.
Tail-light signal.
Tire-signal.
Tire-inflation signal.
Track-signal.
Traffic-signal.
Train-signal.
Vehicle-signal.
Vehicle direction-signal.
Vehicle rear-end signal.
Warning-signal.
Signal. D. E. Blair and D. K. Macleod. No. 1,339,685; May 11; v. 274; p. 270.

Digitized by Google

Signal. C. T. Cochran. No. 1,347,011; July 20; v. 276; p. 453.
Signal. A. W. Dicus. No. 1,359,841; Nov. 16; v. 280; p. 523.
Signal. F. H. Thone. No. 1,346,994; July 20; v. 276; p. 450.
Signal. J. O. Treanor. No. 1,357,915; Nov. 2; v. 280; p. 136.
Signal actuator, Traffic-. J. M. Middlebrooks. No. 1,339,660; May 11; v. 274; p. 265.
Signal and emergency train-stopping device, Combined. J. W. Hubbard. No. 1,361,862; Dec. 14; v. 281; p. 223.
Signal and guide light. H. H. Doner. No. 1,328,135; Jan. 13; v. 270; p. 296.
Signal apparatus. C. H. Morrison and F. H. Nicholson. No. 1,340,970; May 25; v. 274; p. 640.
Signal apparatus, Electric. F. A. Purcell. No. 1,354,337; Sept. 28; v. 278; p. 656.
Signal-carrying case. J. P. Rodenbur. No. 1,344,564; June 22; v. 275; p. 761.
Signal-casing bracket. T. B. Powers. No. 1,334,048; Mar. 16; v. 272; p. 467.
Signal device. T. G. Lempges. No. 1,349,774; Aug. 17; v. 277; p. 446.
Signal device. P. Roussey. No. 1,356,472; Oct. 19; v. 279; p. 490.
Signal device. C. F. Smith. No. 1,336,489; Apr. 13; v. 273; p. 207.
Signal device. E. E. Tryon. No. 1,354,355; Sept. 28; v. 278; p. 660.
Signal device. S. Wiley. No. 1,329,786; Feb. 3; v. 271; p. 73.
Signal device, Bearing-wear-. J. E. Blain. No. 1,361,000; Dec. 7; v. 281; p. 4.
Signal device for motor-vehicles. J. M. Rice. No. 1,340,292; May 18; v. 274; p. 440.
Signal device, Highway surface. E. F. Goodrum. No. 1,357,860; Nov. 2; v. 280; p. 126.
Signal device, Motor. J. W. Michael and E. L. Martin. No. 1,359,088; Nov. 16; v. 280; p. 474.
Signal device, Portable. J. E. Genn. No. 1,344,082; June 22; v. 275; p. 666.
Signal device, Portable. J. T. Thompson. No. 1,334,059; Mar. 16; v. 272; p. 469.
Signal-indicating and train-reporting answer-back system. R. C. Leake. No. 1,355,055; Oct. 5; v. 279; p. 120.
Signal, Indicator, and recorder. F. Liebler. No. 1,328,245; Jan. 13; v. 270; p. 818.
Signal indicator, Illuminated-. B. N. Karl and C. B. Curtis. No. 1,362,324; Dec. 14; v. 281; p. 315.
Signal-light. T. G. Thomas. No. 1,334,191; Mar. 16; v. 272; p. 493.
Signal-light, Finger-actuated. D. J. Broughton. No. 1,335,272; Mar. 30; v. 272; p. 808.
Signal means. H. A. Myers. No. 1,349,848; Aug. 17; v. 277; p. 460.
Signal on and communicating with trains, Actuating. H. A. Thompson. No. 1,327,411; Jan. 6; v. 270; p. 98.
Signal-operating means. J. T. Curtis. No. 1,346,703; July 13; v. 276; p. 333.
Signal-operating mechanism, Semaphore-. J. C. Lindner. No. 1,328,381; Jan. 20; v. 270; p. 379.
Signal-post. W. O'Toole. No. 1,337,947; Apr. 20; v. 273; p. 560.
Signal-receiving apparatus, Wireless. E. C. Mignon. No. 1,329,672; Feb. 3; v. 271; p. 61.
Signal-recorder. H. W. Doughty. No. 1,345,355; July 6; v. 276; p. 6.
Signal set. F. B. Perry. No. 1,355,259; Oct. 12; v. 279; p. 214.
Signal system. D. M. Kennedy. No. 1,349,001; Aug. 10; v. 277; p. 220.
Signal system. C. Muckenfuss. No. 1,337,021; Apr. 13; v. 273; p. 310.
Signal system and apparatus. H. M. Friendly. No. 1,358,720; Nov. 16; v. 280; p. 402.
Signal system, Cab-. L. Ringer. No. 1,351,943; Sept. 7; v. 278; p. 46.
Signal system, Directionally-controlled. R. J. Hewett. No. 1,362,994; Dec. 21; v. 281; p. 496.
Signal system, Portable. B. W. Davis. No. 1,346,531; July 13; v. 276; p. 299.
Signal tower, Traffic-. S. C. Repsholdt. No. 1,359,529; Nov. 23; v. 280; p. 605.
Signal tower, Traffic-. S. C. Repsholdt. No. 1,360,796; Nov. 30; v. 280; p. 923.
Signals, Apparatus for suppressing false. C. E. Goings. No. 1,334,330; Mar. 30; v. 272; p. 814.
Signals, Circuit-closer for automobile-. I. J. Kissell. No. 1,341,572; May 25; v. 274; p. 719.
Signals, Circuit-closer for vehicle-. R. J. Lyman. No. 1,331,019; Feb. 17; v. 271; p. 415.
Signals, Circuit-closer for vehicle-. J. W. and N. J. Schram. No. 1,335,610; Mar. 30; v. 272; p. 866.
Signals, Circuit-closer for vehicle-. A. G. Stohn and T. Howard. No. 1,331,684; Feb. 24; v. 271; p. 558.
Signals, Membranous or diaphragm transmitter for submarine sound-. W. Hahnemann. No. 1,331,149; Feb. 17; v. 271; p. 438.
Signals, Operating mechanism for. H. H. Banks. No. 1,332,098; Feb. 24; v. 271; p. 636.
Signals, Receiver-mounting for submarine. E. C. Wood. No. 1,336,497; Apr. 13; v. 273; p. 209.
Signals, Receiver of wireless. E. E. Frankis. No. 1,354,290; Sept. 28; v. 278; p. 647.
Signals, Receiving telegraph-. C. H. Teegarden. No. 1,346,614; July 13; v. 276; p. 315.
Signals, Sound-regulator for audible-. W. Kline. No. 1,342,543; June 8; v. 275; p. 235.
Signaling and stopping device, Train. C. T. McGregor. No. 1,356,299; Oct. 19; v. 279; p. 458.
Signaling and train-control system, Train-. J. A. Miller. No. 1,357,243; Nov. 2; v. 280; p. 8.
Signaling and train-stop system. J. R. Coker. No. 1,336,889; Apr. 13; v. 273; p. 285.
Signaling and train-stopping apparatus. E. H. Whytehead. No. 1,363,070; Dec. 21; v. 281; p. 512.
Signaling apparatus. J. J. Buckley. No. 1,338,210; Apr. 27; v. 273; p. 679.
Signaling apparatus. G. F. Gray. No. 1,346,540; July 13; v. 276; p. 301.
Signaling apparatus. W. L. Walker. No. 1,349,305; Aug. 10; v. 277; p. 281.
Signaling apparatus, Electrical. B. L. Bobroff. No. 1,358,134; Nov. 9; v. 280; p. 240.
Signaling apparatus, Electrical. C. B. Chicken and J. H. Thain. No. 1,353,025; Sept. 14; v. 278; p. 291.
Signaling, Apparatus for directive. R. A. Fessenden. No. 1,348,856; Aug. 10; v. 277; p. 192.
Signaling, Apparatus for directive. R. A. Fessenden. No. 1,355,598; Oct. 12; v. 279; p. 279.
Signaling apparatus, Vacuum-bulb for. C. S. Demarest. No. 1,353,031; Sept. 14; v. 278; p. 292.
Signaling apparatus, Wireless. R. A. Weagant. No. 1,342,399; June 1; v. 275; p. 153.
Signaling-boiler. M. Kelley. No. 1,339,350; May 4; v. 274; p. 129.
Signaling-circuit. P. J. Hackett. No. 1,347,849; July 27; v. 276; p. 676.
Signaling circuits for electric railways. H. S. Osborne. No. 1,358,777; Nov. 16; v. 280; p. 414.
Signaling-currents, Reduction of distortion of. R. V. L. Hartley. No. 1,360,740; Nov. 30; v. 280; p. 912.
Signaling device. A. H. Barr. No. 1,356,185; Oct. 19; v. 279; p. 435.
Signaling device. H. M. Bascom. No. 1,363,220; Dec. 28; v. 281; p. 581.
Signaling device. F. W. Cole. No. 1,332,322; Mar. 2; v. 272; p. 28.
Signaling device. A. Dilly. No. 1,354,030; Sept. 28; v. 278; p. 594.
Signaling device. I. W. Gruhl. No. 1,327,818; Jan. 13; v. 270; p. 237.
Signaling device. C. B. Harlow. No. 1,360,635; Nov. 30; v. 280; p. 892.
Signaling device. E. Moard. No. 1,332,991; Mar. 9; v. 272; p. 207.
Signaling device. C. F. Schell. No. 1,337,669; Apr. 20; v. 273; p. 507.
Signaling device. R. E. Wetter. No. 1,330,929; Feb. 17; v. 271; p. 397.
Signaling device. J. A. Wotton. No. 1,360,701; Nov. 30; v. 280; p. 904.
Signaling device, Audible. C. Schroeder. No. 1,337,277; Apr. 20; v. 273; p. 433.
Signaling device, Auto. G. J. Marek. No. 1,361,392; Dec. 7; v. 281; p. 82.
Signaling device, Automatic train. C. E. Beckwith. No. 1,349,708; Aug. 17; v. 277; p. 433.
Signaling device, Automobile. B. Birkenfeld. No. 1,352,781; Sept. 14; v. 278; p. 243.
Signaling device, Automobile. G. Keeling. No. 1,358,316; Nov. 9; v. 280; p. 276.
Signaling device, Electric. R. R. Root. No. 1,328,454; Jan. 20; v. 270; p. 393.
Signaling device, Railway. C. J. Chamales. No. 1,354,954; Oct. 5; v. 279; p. 101.
Signaling device, Sounding. J. P. Nikonow. No. 1,342,863; June 8; v. 275; p. 298.
Signaling device, Temperature-. A. Schiefer. No. 1,357,302; Nov. 2; v. 280; p. 20.
Signaling device, Traffic-. J. Selligman. No. 1,355,361; Oct. 12; v. 279; p. 234.
Signaling device, Vehicle. C. Ahlswede. No. 1,337,185; Apr. 20; v. 273; p. 415.
Signaling device, Vehicle. C. H. Allen. No. 1,330,774; Feb. 17; v. 271; p. 367.
Signaling device, Vehicle. P. J. O. Mueller. No. 1,351,532; Aug. 31; v. 277; p. 897.
Signaling device, Vehicle. G. E. Ziemann. No. 1,330,970; Feb. 17; v. 271; p. 405.
Signaling, High-frequency. H. J. van der Bijl. No. 1,350,752; Aug. 24; v. 277; p. 682.
Signaling, High-frequency. B. W. Kendall. No. 1,330,471; Feb. 10; v. 271; p. 242.
Signaling, Light-. A. Ames, Jr. No. 1,339,085; May 4; v. 274; p. 81.
Signaling means. S. N. Wright. No. 1,330,106; Feb. 10; v. 271; p. 174.
Signaling, Means and method for secret. H. D. Arnold. No. 1,356,686; Oct. 26; v. 279; p. 579.
Signaling mechanism. F. R. McMurry. No. 1,337,783; Apr. 20; v. 273; p. 529.

Digitized by Google

Signaling mechanism, Automatic railway. H. McGauley. No. 1,360,304; Nov. 30; v. 280; p. 827.
Signaling mechanism, Train. C. E. Beckwith. No. 1,349,709; Aug. 17; v. 277; p. 433.
Signaling or indicating apparatus especially applicable for signaling orders and numerical data, Electrical. E. A. Graham. No. 1,343,362; June 15; v. 275; p. 459.
Signaling, Railway. H. A. Wallace. No. 1,359,131; Nov. 16; v. 280; p. 481.
Signaling system. R. D. Conway. No. 1,343,196; June 15; v. 275; p. 428.
Signaling system. A. D. Dowd. No. 1,332,976; Mar. 9; v. 272; p. 205.
Signaling system. G. D. Edwards. No. 1,340,942; May 25; v. 274; p. 635.
Signaling system. J. C. Field. No. 1,333,014; Mar. 9; v. 272; p. 212.
Signaling system. R. M. Hopkins. No. 1,349,961; Aug. 17; v. 277; p. 481.
Signaling system. R. M. Hopkins. No. 1,360,954; Nov. 30; v. 280; p. 953.
Signaling system. J. F. Moran. No. 1,352,081. Sept. 7; v. 278; p. 71.
Signaling system. B. H. Peter. No. 1,327,570; Jan. 6; v. 270; p. 129.
Signaling system. D. C. Tanner. No. 1,332,961; Mar. 9; v. 272; p. 202.
Signaling system. G. W. Thaxton. No. 1,353,436; Sept. 21; v. 278; p. 431.
Signaling system, Composite. H. S. Osborne and R. D. Parker. No. 1,361,486; Dec. 7; v. 281; p. 102.
Signaling system, Electric. S. B. Hess. No. 1,351,422; Aug. 31; v. 277; p. 875.
Signaling system, Electric. F. N. Reeves. No. 1,337,482; Apr. 20; v. 273; p. 471.
Signaling system, Electrical. A. T. Dawson and G. T. Buckham. No. 1,347,258; July 20; v. 276; p. 502.
Signaling system, Electrical. H. D. Murphy. No. 1,343,467; June 15; v. 275; p. 479.
Signaling system, Elevator-. F. A. Boedtcher. No. 1,333,240; Mar. 9; v. 272; p. 253.
Signaling system, Secret. W. Wilson. No. 1,354,932; Oct. 5; v. 279; p. 97.
Signaling system, Selective. J. A. Hulit. No. 1,356,626; Oct. 26; v. 279; p. 567.
Signaling system, Selective. W. T. Powell. No. 1,352,217; Sept. 7; v. 278; p. 96.
Signaling system, Telegraph-. H. O. Rugh. No. 1,347,176; July 20; v. 276; p. 485.
Signaling system, Traffic-. A. W. Kent. No. 1,357,875; Nov. 2; v. 280; p. 128.
Signaling system, Wireless. E. F. W. Alexanderson. No. 1,350,911; Aug. 24; v. 277; p. 711.
Signature-fold-centering device. M. Christensen. No. 1,349,662; Aug. 17; v. 277; p. 224.
Signature-handling device. M. Christensen. No. 1,335,221; Mar. 30; v. 272; p. 793.
Silage, Device for packing. J. E. Dobson and S. M. Crookshank. No. 1,328,728; Jan. 20; v. 270; p. 444.
Silencer. H. P. Maxim. No. 1,330,486; Feb. 10; v. 271; p. 244.
Silencer and flash-obscurer. A. Fiala. No. 1,341,363; May 25; v. 274; p. 717.
Silencer-coupling. S. Oliver. No. 1,354,416; Sept. 28; v. 278; p. 672.
Silicate of soda, Producing. W. H. Stanton. No. 1,352,700; Sept. 14; v. 278; p. 227.
Silicates. Apparatus for treating. W. Glaeser. No. 1,347,024; July 20; v. 276; p. 456.
Silicates, Manufacture of readily-soluble. F. J. Phillips and E. J. Rose. No. 1,357,183; Oct. 26; v. 279; p. 676.
Silk-dressing machine. A Mellor. No. 1,328,535; Jan. 20; v. 270; p. 409.
Silk, Dyeing raw. E. L. Maupai. No. 1,332,675; Mar. 2; v. 272; p. 95.
Silk-finishing machine. G. P. Vuono. No. 1,347,066; July 20; v. 276; p. 464.
Silk, Method and apparatus for winding artificial. W. H. Furness. No. 1,338,648. Apr. 27; v. 273; p. 760.
Silk waste, Spinning artificial-. W. R. D. Hall. No. 1,340,044; May 11; v. 274; p. 337.
Sill construction. F. N. Marvick. No. 1,346,459; July 13; v. 276; p. 285.
Silo. V. S. Bauder. No. 1,361,357; Dec. 7; v. 281; p. 75.
Silo. A. W. Brash. No. 1,335,649; Mar. 30; v. 272; p. 874.
Silo. J. H. Comer. No. 1,343,809; June 15; v. 275; p. 548.
Silo. F. W. Gross. No. 1,340,890; May 25; v. 274; p. 625.
Silo. P. A. Haevers. No. 1,331,195; Feb. 17; v. 271; p. 446.
Silo. M. H. Jahn. No. 1,330,118; Feb. 10; v. 271; p. 177.
Silo. A. D. W. Johnson. No. 1,360,408; Nov. 30; v. 280; p. 846.
Silo. J. L. and E. C. Jones. No. 1,345,544; July 6; v. 276; p. 43.
Silo. T. K. Massie. No. 1,335,747; Apr. 6; v. 273; p. 8.
Silo. J. R. Mims. No. 1,347,284; July 20; v. 276; p. 507.
Silo. C. M. Stafford. No. 1,330,821; Feb. 17; v. 271; p. 375.
Silo. E. Stewart. No. 1,360,461; Nov. 30; v. 280; p. 857.
Silo. H. Wadsworth. No. 1,359,209; Nov. 16; v. 280; p. 496.
Silo-brace. W. A. Berkshire. No. 1,345,985; July 6; v. 276; p. 130.
Silo-brace. B. Gibson and A. Fuller. No. 1,339,701; May 11; v. 274; p. 273.
Silo-construction system. P. C. Scarborough. No. 1,329,638; Feb. 3; v. 271; p. 54.
Silo door-block. C. L. Myers. No. 1,354,507; Oct. 5; v. 279; p. 12.
Silo-elevator. S. O. Bumgarner. No. 1,352,500; Sept. 14; v. 278; p. 187.
Silo-fillers, Cutting and distributing device for. J. F. Morgal. No. 1,353,261; Sept. 21; v. 278; p. 397.
Silo-heater. A. J. Johnson. No. 1,340,718; May 18; v. 274; p. 521.
Silo-hoist. O. Matthew. No. 1,348,435; Aug. 3; v. 277; p. 60.
Silo-hoop. J. J. Verhagen. No. 1,351,310; Aug. 31; v. 277; p. 853.
Silo-packer. E. W. Burgess. No. 1,354,280; Sept. 28; v. 278; p. 645.
Silo-seal. A. R. Flink. No. 1,358,629; Nov. 9; v. 280; p. 339.
Silo-staves, Mold for making. F. R. Ensminger. No. 1,354,543; Oct. 5; v. 279; p. 19.
Silo, Ventilated. R. Hartenberger. No. 1,350,501; Aug. 24; v. 277; p. 633.
Silos, Distributer and packer for. H. S. Heath. No. 1,358,732; Nov. 16; v. 280; p. 405.
Silos, Ensilage-packer for. J. H. Comer. No. 1,334,521; Mar. 23; v. 272; p. 601.
Silos, Key-interlocking hollow-tile construction of. I. Pomerantz. No. 1,332,409; Mar. 2; v. 272; p. 45.
Silos, Sectional studding for. H. E. Boldt. No. 1,354,720; Oct. 5; v. 279; p. 55.
Silver-burnishing apparatus. O. W. Schaum. No. 1,358,251; Nov. 9; v. 280; p. 263.
Silver compounds and products, Reducing the sensitiveness of. N. Sulzberger. No. 1,356,236; Oct. 19; v. 279; p. 445.
Sinew and tendon extracting device. J. Hunsinger, Sr. No. 1,338,452; Apr. 27; v. 273; p. 724.
Singeing-furnace, Electric. O. A. Colby. No. 1,338,359; Apr. 27; v. 273; p. 707.
Singing and wind-instrument practice, Means for and method of regulating breathing for. J. B. Rigg. No. 1,354,212; Sept. 28; v. 278; p. 631.
Single-roll crusher. W. K. Liggett. No. 1,339,932; May 11; v. 274; p. 316.
Single-roll crusher. W. K. Liggett. No. 1,339,933; May 11; v. 274; p. 316.
Sink-fitting. H. Shields. No. 1,356,564; Oct. 26; v. 279; p. 555.
Sintering plant. A. F. Plock. No. 1,330,090; Feb. 10; v. 271; p. 171.
Siphon-lubricator. P. Lebourg. No. 1,360,418; Nov. 30; v. 280; p. 848.
Siphon-starter. A. H. Marhenke. No. 1,336,810; Apr. 6; v. 273; p. 114.
Siphon, Tank-. E. H. Gove. No. 1,353,230; Sept. 21; v 278; p. 391.
Sizer and grader. A. M. O'Quinn. No. 1,337,257; Apr. 20; v. 273; p. 429.
Sizing apparatus. J. G. Kirksey. No. 1,338,227; Apr. 27; v. 273; p. 682.
Sizing or separating apparatus. W. E. Bryan. No. 1,339,161; May 4; v. 274; p. 95.
Skate. J. S. N. Guindon. No. 1,334,609; Mar. 23; v. 272; p. 618.
Skate. G. H. Ricke. No. 1,351,925; Sept. 7; v. 278; p. 43.
Skate. Z. Slawinski. No. 1,342,773; June 8; v. 275; p. 281.
Skate, Ice-. M. U. Smart. No. 1,358,591; Nov. 9; v. 280; p. 332.
Skate, Mechanical roller-. A. Chiarelli. No. 1,338,813; May 4; v. 274; p. 30.
Skate-protector. A. Johnson. No. 1,341,853; June 1; v. 275; p. 47.
Skate, Roller-. F. Gunnarson. No. 1,327,549; Jan. 6; v. 270; p. 125.
Skate, Roller-. E. E. Hardy. No. 1,345,848; July 6; v. 276; p. 102.
Skate, Roller-. E. T. Lee. No. 1,346,218; July 13; v. 276; p. 237.
Skate, Roller-. J. D. Uppling. No. 1,345,038; June 29; v. 275; p. 916.
Skate, Roller-. J. Wisniewski. No. 1,332,702; Mar. 2; v. 272; p. 101.
Skate-scabbard attachment. W. S. Swift. No. 1,346,568; July 13; v. 276; p. 307.
Skate, Screw-on. R. G. McLean. No. 1,355,680; Oct. 12; v. 279; p. 294.
Skate-sharpening stand. C. A. Ritter. No. 1,362,045; Dec. 14; v. 281; p. 260.
Skate, Tubular ice-. W. T. K. Brown. No. 1,352,118; Sept. 7; v. 278; p. 77.

Digitized by Google

Alphabetical list of inventions—Continued.

Skate, Water-. G. Halbow. No. 1,344,225; June 22; v. 275; p. 693.
Skates, Detachable shoe-tip protector for roller-. F. Ess. No. 1,351,509; Aug. 31; v. 277; p. 892.
Skee-brake. A. Brager and O. Lee. No. 1,345,988; July 6; v. 276; p. 131.
Skee-shaping device. H. J. Lundquist. No. 1,356,726; Oct. 26; v. 279; p. 587.
Skein-dyeing machine. A. T. Scaramuzzi. No. 1,357,522; Nov. 2; v. 280; p. 60.
Skelp, Apparatus for dressing. J. W. Latshaw. No. 1,349,070; Aug. 10; v. 277; p. 234.
Sketching-board. C. S. Jacob. No. 1,356,719; Oct. 26; v. 279; p. 586.
Sketching-pad, Loose-leaf. A. R. Nadel. No. 1,338,951; May 4; v. 274; p. 56.
Skewer-pin machine. W. H. Cox. No. 1,357,029; Oct. 26; v. 279; p. 646.
Skiascope. N. A. Shigon. No. 1,351,220; Aug. 31; v. 277; p. 835.
Skid. W. E. Wine. No. 1,359,138; Nov. 16; v. 280; p. 483.
Skid, Loading-. B. J. Hubbard. No. 1,341,904; June 1; v. 275; p. 57.
Skiff. S. B. King. No. 1,352,753; Sept. 14; v. 278; p. 238.
Skin-stretching frame. H. W. Thompson. No. 1,358,183; Nov. 9; v. 280; p. 250.
Skins, fabric, tobacco, &c., Apparatus for treating. J. U. Flanagan. No. 1,327,668; Jan. 13; v. 270; p. 209.
Skirt. S. Frankfurt. No. 1,349,879; Aug. 17; v. 277; p. 466.
Skirt. W. Graber. No. 1,333,410; Mar. 9; v. 272; p. 285.
Skirt evener, tucker, hemmer, and marker. C. M. Drake. No. 1,344,871; June 29; v. 275; p. 885.
Skirt-hanger. B. Gibbs. No. 1,350,219; Aug. 17; v. 277; p. 531.
Skirt, Maternity-. C. M. Goldberg. No. 1,357,828; Nov. 2; v. 280; p. 120.
Skirt or overalls, Divided. M. S. Boardman. No. 1,333,958; Mar. 16; v. 272; p. 449.
Skirt-supporter. L. Wissmann. No. 1,354,933; Oct. 5; v. 279; p. 97.
Skirt-supporting device. T. C. Kutscher. No. 1,355,675; Oct. 12; v. 279; p. 293.
Skiving-machine. C. A. Bliss. No. 1,341,164; May 25; v. 274; p. 678.
Skiving-machine. W. P. Crockett. No. 1,349,119; Aug. 10; v. 277; p. 243.
Skiving-machine. E. F. Davenport. No. 1,329,294; Jan. 27; v. 270; p. 580.
Skiving-machine. N. V. Dyer. No. 1,327,028; Jan. 6; v. 270; p. 28.
Skiving-machine. N. V. Dyer. No. 1,342,430; June 8; v. 275; p. 213.
Skiving-machine. H. E. Enslin. No. 1,358,140; Nov. 9; v. 280; p. 242.
Skiving-machine. A. Latham. No. 1,342,120; June 1; v. 275; p. 100.
Skylight. V. E. Rowland. No. 1,331,825; Feb. 24; v. 271; p. 585.
Skylight construction. C. Yauch. No. 1,332,280; Mar. 2; v. 272; p. 20.
Skylight illuminating device. L. X. Champeau. No. 1,341,259; May 25; v. 274; p. 696.
Slabbing and loading machine. E. O. Toole. No. 1,336,440; Apr. 13; v. 273; p. 198.
Slabbing-mill. W. J. Todhunter. No. 1,349,021; Aug. 10; v. 277; p. 224.
Slabs, bars, billets, or other material, Grip for handling. A. W. Jones, J. Bryden, and A. J. H. Mowbray. No. 1,345,930; July 6; v. 276; p. 119.
Slack-adjuster. W. W. Hunzicker. No. 1,336,522; Apr. 13; v. 273; p. 214.
Slack-adjuster. W. W. Hunzicker. No. 1,341,321; May 25; v. 274; p. 708.
Slack-adjuster. A. H. Peycke. No. 1,329,008; Jan. 27; v. 270; p. 527.
Slack-adjuster, Automatic. W. W. Hunzicker. No. 1,347,634; July 27; v. 276; p. 633.
Slack-adjuster, Manually-operated. F. H. Schwentler. No. 1,328,841; Jan. 20; v. 270; p. 372.
Slat or louver reinforcement. C. V. Hymel. No. 1,358,448; Nov. 9; v. 280; p. 304.
Slats to belts, Means for holding. C. G. Cowan. No. 1,345,136; June 29; v. 275; p. 935.
Slate, Artificial. E. Fahrig. No. 1,362,563; Dec. 14; v. 281; p. 361.
Sled. E. Albrecht. No. 1,355,520; Oct. 12; v. 279; p. 264.
Sled. T. E. and H. E. Ashby. No. 1,353,817; Sept. 28; v. 278; p. 551.
Sled. A. V. Bargery. No. 1,355,379; Oct. 12; v. 279; p. 237.
Sled. J. F. Dietz. No. 1,335,096; Mar. 30; v. 272; p. 771.
Sled. J. B. Jordan. No. 1,349,066; Aug. 10; v. 277; p. 233.
Sled. F. Oldakowski. No. 1,354,995; Oct. 5; v. 279; p. 108.
Sled. W. Schutte. No. 1,359,436; Nov. 16; v. 280; p. 542.
Sled. W. H. Yerkes. No. 1,349,645; Aug. 17; v. 277; p. 421.
Sled and baby-carriage attachment, Combined folding. A. Clein. No. 1,328,715; Jan. 20; v. 270; p. 442.
Sled and truck, Combined. G. Heger. No. 1,331,501; Feb. 24; v. 271; p. 524.
Sled and wagon, Combined double-ended. H. Asman. No. 1,349,311; Aug. 10; v. 277; p. 282.
Sled, Automobile. J. Wachniak. No. 1,342,410; June 1; v. 275; p. 155.
Sled, Bicycle-. O. W. Ahlbom. No. 1,350,052; Aug. 17; v. 277; p. 499.
Sled-brake. A. Hammerstrom. No. 1,329,047; Jan. 27; v. 270; p. 534.
Sled, Combination kick and bob. A. W. Skur. No. 1,362,902; Dec. 21; v. 281; p. 479.
Sled, Convertible. C. R. Nelson. No. 1,335,292; Mar. 30; v. 272; p. 806.
Sled, Hand-. W. E. Sherwood. No. 1,330,095; Feb. 10; v. 271; p. 172.
Sled-pad. J. Dickie. No. 1,341,708; June 1; v. 275; p. 18.
Sled-runner, Wheel-attached. J. Johnson. No. 1,328,629; Jan. 20; v. 270; p. 426.
Sled shoe and runner protector. J. Thibault. No. 1,341,087; May 25; v. 274; p. 663.
Sleeve and waist, One-piece. S. E. Sloan. No. 1,348,327; Aug. 3; v. 277; p. 39.
Sleeve, Bearing-protecting. C. E. H. Appelt. No. 1,362,215; Dec. 14; v. 281; p. 294.
Sleeve-clamp, Roller-bearing. N. E. Koch. No. 1,363,795; Dec. 28; v. 281; p. 692.
Sleeve construction. L. Schneider. No. 1,338,098; Apr. 27; v. 273; p. 658.
Sleeve-former. I. Bank. No. 1,345,739; July 6; v. 276; p. 80.
Sleeve-grip. B. Beale. No. 1,336,839; Apr. 6; v. 273; p. 120.
Sleeve-holder. J. S. Johnston. No. 1,329,908; Feb. 3; v. 271; p. 105.
Sleeve-holder and cuff-button device, Combined. L. A. Chance. No. 1,334,348; Mar. 23; v. 272; p. 569.
Sleeve-protector. D. V. D. Whitaker. No. 1,344,011; June 22; v. 275; p. 652.
Sleigh. M. Beau. No. 1,345,825; July 6; v. 276; p. 97.
Sleigh. L. Bergeron. No. 1,353,141; Sept. 21; v. 278; p. 374.
Sleigh and wheel coaster, Combined. J. H. McCarthy. No. 1,350,929; Aug. 24; v. 277; p. 715.
Sleigh-carrier. W. L. Paddon. No. 1,339,861; May 11; v. 274; p. 303.
Sleigh, Manure-spreader. T. J. Fetcher. No. 1,334,448; Mar. 23; v. 272; p. 587.
Sleigh, Motor-. J. Pasko. No. 1,334,788; Mar. 23; v. 272; p. 652.
Sleigh, Motor-. G. E. Williams. No. 1,363,071; Dec. 21; v. 281; p. 512.
Sleigh-runners, Oscillating bob-knee for. R. Burbridge. No. 1,348,347; Aug. 3; v. 277; p. 43.
Sleigh, Self-propelled. J. Bereznay. No. 1,345,062; June 29; v. 275; p. 921.
Slicer and cuber, Combined. J. Anstice. No. 1,357,829; Nov. 2; v. 280; p. 120.
Slicer, Meat-. W. H. Donald. No. 1,362,855; Dec. 21; v. 281; p. 470.
Slicer, Rotary vegetable-. O. A. Freeman. No. 1,341,894; June 1; v. 275; p. 55.
Slicers, Table-feeding device for meat-. J. Hopkinson. No. 1,356,284; Oct. 19; v. 279; p. 454.
Slicing and scoring machine, Veneer. R. W. Burrows. No. 1,327,983; Jan. 13; v. 270; p. 267.
Slicing-gage. W. H. Higgs. No. 1,356,067; Oct. 19; v. 279; p. 411.
Slicing-knives, Adjustable and releasing guard for. C. H. Krapf. No. 1,342,292; June 1; v. 275; p. 133.
Slicing-machine. C. F. M. van Berkel. No. 1,335,086; Mar. 30; v. 272; p. 759.
Slicing-machine. C. F. M. van Berkel. No. 1,339,590; May 11; v. 274; p. 251.
Slicing-machine. C. F. M. van Berkel. No. 1,346,996; July 20; v. 276; p. 450.
Slicing-machine. A. M. Demuth. No. 1,337,596; Apr. 20; v. 273; p. 493.
Slicing-machine. C. A. Dies. No. 1,331,958; Feb. 24; v. 271; p. 610.
Slicing-machine. C. A. Dies. No. 1,344,118; June 22; v. 275; p. 673.
Slicing-machine. C. A. Dies. No. 1,352,658; Sept. 14; v. 278; p. 218.
Slicing-machine. J. Folk. No. 1,340,219; May 18; v. 274; p. 427.
Slicing-machine. R. S. C. Fow. No. 1,328,916; Jan. 27; v. 270; p. 510.
Slicing-machine. J. Hartman. No. 1,333,252; Mar. 9; v. 272; p. 256.
Slicing-machine. W. C. Knapp. No. 1,353,802; Sept. 21; v. 278; p. 504.
Slicing-machine. W. C. Knapp. No 1,353,803; Sept. 21; v. 278; p. 504.
Slicing-machine. S. Wile. No. 1,350,048; Aug. 17; v. 277; p. 498.

Digitized by Google

Slicing-machine. S. Wile. No. 1,350,049; Aug. 17; v. 277; p. 498.
Slicing-machine. J. C. Woodington. No. 1,330,292; Feb. 10; v. 271; p. 208.
Slicing-machine attachment. F. Kruse. No. 1,350,162; Aug. 17; v. 277; p. 520.
Slicing-machine attachment. J. H. McLaughlin. No. 1,339,901; May 1; v. 274; p. 310.
Slicing machines, Knife-guard for meat-. J. Hopkinson. No. 1,361,998; Dec. 14; v. 281; p. 251.
Slicing-machines, Operating mechanism for. E. K. Hood. No. 1,340,829; May 18; v. 274; p. 542.
Slicing-machines, Work-holder for. A. R. Luschka and J. Folk. No. 1,356,165; Oct. 19; p. 279; p. 481.
Slide. J. Unsworth. No. 1,348,598; June 15; v. 275; p. 505.
Slime-pulp thickener. C. Allen. No. 1,339,684; May 11; v. 274; p. 269.
Slime-thickener. W. E. Darrow. No. 1,336,553; Apr. 13; v. 273; p. 220.
Sling, Lifting-. J. L. Dillon. No. 1,353,569; Sept. 21; v. 278; p. 458.
Sling, Rope. J. F. Howe. No. 1,334,244; Mar. 16; v. 272; p. 502.
Slipper. M. Gaeto. No. 1,350,965; Aug. 24; v. 277; p. 722.
Slipper, One-piece. M. J. Hollenbeck. No. 1,359,377; Nov. 16; v. 280; p. 530.
Slitter and perforator, Combination. L. D. Hoff. No. 1,351,751; Sept. 7; v. 278; p. 7.
Slitting and rewinding machine. J. A. Cameron and G. B. Birch. No. 1,350,064; Aug. 17; v. 277; p. 501.
Slitting and rewinding machine. J. A. Cameron and G. B. Birch. No. 1,354,463; Oct. 5; v. 279; p. 3.
Slitting and rewinding machine. J. A. Cameron and G. B. Birch. No. 1,354,464; Oct. 5; v. 279; p. 4.
Slitting machine, Veneer-. J. C. Dozier and J. L. Walker. No. 1,356,271; Oct. 19; v. 279; p. 451.
Slitting means. J. A. Cameron and G. B. Birch. No. 1,355,104; Oct. 5; v. 279; p. 130.
Slitting mechanism. W. A. Pringle. No. 1,347,872; July 27; v. 276; p. 680.
Slotting and creasing machines, Feed mechanism for. G. W. Swift, Jr. No. 1,353,087; Sept. 14; v. 278; p. 303.
Slub-catcher. F. Weber. No. 1,343,102; June 8; v. 275; p. 346.
Slug. E. L. Cushman. No. 1,328,725; Jan. 20; v. 270; p. 444.
Slug, Filler-. M. First. No. 1,334,236; Mar. 16; v. 272; p. 501.
Slug-lock. W. H. Horsman. No. 1,335,966; Apr. 6; v. 273; p. 50.
Smelting. J. Lund. No. 1,360,552; Nov. 30; v. 280; p. 875.
Smelting-furnace. D. Brookfield. No. 1,346,527; July 13; v. 276; p. 298.
Smelting-furnace. J. Gaunt and D. Brookfield. No. 1,344,878; June 29; v. 275; p. 886.
Smelting-furnace. A. Jones. No. 1,334,459; Mar. 23; v. 272; p. 590.
Smelting-furnace. R. G. Ward. No. 1,348,525; Aug. 3; v. 277; p. 76.
Smelting-furnace. R. G. and W. R. Ward. No. 1,351,451; Aug. 31; v. 277; p. 881.
Smelting - furnace for lead ores. J. Labarthe. No. 1,356,159; Oct. 19; v. 279; p. 429.
Smelting system, Hermetic unit. W. M. Johnson. No. 1,327,282; Jan. 6; v. 270; p. 75.
Smelting tin and other ores. J. H. Gray. No. 1,340,951; May 25; v. 274; p. 636.
Smoke, Colored. E. C. Weisgerber. No. 1,339,142; May 4; v. 274; p. 93.
Smoke, Colored. E. C. Weisgerber. No. 1,339,143; May 4; v. 274; p. 93.
Smoke, Colored. E. C. Weisgerber. No. 1,339,144; May 4; v. 274; p. 93.
Smoke, Colored. E. C. Weisgerber. No. 1,339,145; May 4; v. 274; p. 93.
Smoke, Colored. E. C. Weisgerber. No. 1,339,146; May 4; v. 274; p. 93.
Smoke, Colored. E. C. Weisgerber. No. 1,339,147; May 4; v. 274; p. 93.
Smoke, Colored. E. C. Weisgerber. No. 1,339,148; May 4; v. 274; p. 93.
Smoke, Colored. E. C. Weisgerber. No. 1,339,149; May 4; v. 274; p. 93.
Smoke, Colored. E. C. Weisgerber. No. 1,339,150; May 4; v. 274; p. 93.
Smoke-conduits. Draft-controller for. L. W. Howard. No. 1,328,565; Jan. 20; v. 270; p. 415.
Smoke-consumer. A. Burda. No. 1,357,441; Nov. 2; v. 280; p. 45.
Smoke-consumer. J. Moffatt. No. 1,332,914; Mar. 9; v. 272; p. 192.
Smoke consumer or purifier. A. Gabor. No. 1,359,340; Nov. 16; v. 280; p. 523.
Smoke-curing apparatus. A. C. Legg. No. 1,333,552; Mar. 9; v. 272; p. 313.
Smoke-jack. A. J. Filkins. No. 1,349,666; Aug. 17; v. 277; p. 425.
Smoke-reducer. L. Paul. No. 1,342,867; June 8; v. 275; p. 299.
Smoke-reducer. W. F. Stark. No. 1,332,771; Mar. 2; v. 272; p. 114.
Smoker. F. Miekush. No. 1,328,188; Jan. 13; v. 270; p. 305.
Smoking-pipe. K. B. Abernathy. No. 1,335,812; Mar. 30; v. 272; p. 811.
Smoking-pipe. R. E. Perkins. No. 1,349,292; Aug. 10; v. 277; p. 279.
Smoking-pipe. R. M. Prophet. No. 1,356,736; Oct. 26; v. 279; p. 589.
Smokehouse. J. D. Linss. No. 1,354,317; Sept. 28; v. 278; p. 652.
Smokehouse, Metallic. B. Bilderback. No. 1,327,987; Jan. 13; v. 270; p. 258.
Smokehouse, Metallic. B. Bilderback. (Reissue.) No. 14,965; Oct. 26; v. 279; p. 681.
Smokestacks, Apparatus for painting. L. Chandler. No. 1,345,834; July 6; v. 276; p. 99.
Snail and slug trap. R. S. Walker. No. 1,327,579; Jan. 6; v. 270; p. 181.
Snap-fastener. J. J. Bernier. No. 1,363,709; Dec. 28; v. 281; p. 675.
Snap-fastener. F. S. Carr. No. 1,341,043; May 25; v. 274; p. 655.
Snap-fastener. J. O. H. Casenove. No. 1,360,884; Nov. 30; v. 280; p. 940.
Snap-fastener. M. Katsmarek. No. 1,350,314; Aug. 24; v. 277; p. 596.
Snap-fastener. W. H. Lammers. No. 1,348,011; July 27; v. 276; p. 708.
Snap-fastener. A. C. Mercer. No. 1,335,449; Mar. 30; v. 272; p. 836.
Snap-fastener. T. F. Morris. No. 1,352,374; Sept. 7; v. 278; p. 126.
Snap-fastener. H. S. Normand. No. 1,358,098; Nov. 9; v. 280; p. 283.
Snap-fastener. E. J. Smith. No. 1,360,459; Nov. 30; v. 280; p. 857.
Snap-fastener. E. J. and D. Smith. No. 1,352,153; Sept. 7; v. 278; p. 85.
Snap-fastener. M. Wheeler and E. M. Bates. No. 1,357,918; Nov. 2; v. 280; p. 137.
Snap-fastener device. H. B. Smith. No. 1,345,267; June 29; v. 275; p. 961.
Snap-fastener socket member. J. E. Forslund. No. 1,360,914; Nov. 30; v. 280; p. 945.
Snap-fastener, Socket member for. W. J. Galt, Jr. No. 1,362,690; Dec. 21; v. 281; p. 437.
Snap-fasteners, Machine for making. O. Soderstrom and W. Fuhrmann. No. 1,340,634; May 18; v. 274; p. 506.
Snap-hook. A. Bruhn. No. 1,332,884; Mar. 9; v. 272; p. 187.
Snap-hook. B. M. Carroll. No. 1,329,071; Jan. 27; v. 270; p. 539.
Snap-hook. D. J. Darkes. No. 1,350,787; Aug. 24; v. 277; p. 689.
Snap-hook. J. A. Lüthi. No. 1,352,982; Sept. 14; v. 278; p. 283.
Snap-hook or shackle. C. P. Kuhl. No. 1,363,516; Dec. 28; v. 281; p. 633.
Snap-seal. J. L. Dinsmoor. No. 1,363,724; Dec. 28; v. 281; p. 678.
Snap-switch, Double-throw. L. Kellner. No. 1,354,761; Oct. 5; v. 279; p. 63.
Snap-switch, Electric. F. H. Quade, Jr. No. 1,328,388; Jan. 20; v. 270; p. 371.
Snap-switch, Electrical. H. J. Holdredge. No. 1,353,589; Sept. 21; v. 278; p. 462.
Snow. Apparatus for melting. S. Savonius. No. 1,339,719; May 11; v. 274; p. 276.
Snow-brake bracket. R. L. Dixon. No. 1,330,309; Feb. 10; v. 271; p. 211.
Snow cleaning and melting machine. M. S. Arapis. No. 1,341,005; May 25; v. 274; p. 647.
Snow-melter. J. Barry. No. 1,333,373; Mar. 9; v. 272; p. 279.
Snow-melter. H. L. Peden. No. 1,349,853; Aug. 17; v. 277; p. 461.
Snow-melting apparatus. T. McGill. No. 1,360,238; Nov. 23; v. 280; p. 745.
Snowplow. H. P. Andresen. No. 1,358,046; Nov. 9; v. 280; p. 223.
Snowplow. M. G. Berridge. No. 1,336,016; Apr. 6; v. 273; p. 59.
Snowplow. O. Berry. No. 1,340,263; May 18; v. 274; p. 435.
Snowplow. E. J. Dyson. No. 1,344,794; June 29; v. 275; p. 871.
Snowplow. A. Fricker. No. 1,345,438; July 6; v. 276; p. 22.
Snow-sweep, Vacuum. A. B. Rishel. No. 1,352,384. Sept. 7; v. 278; p. 128.
Snowplow. S. W. Gass. No. 1,356,443; Oct. 19; v. 279; p. 485.
Snowplow. C. C. Hyde. No. 1,329,123; Jan. 27; v. 270; p. 548.
Snowplow. J. Korhonen. No. 1,328,157; Jan. 13; v. 270; p. 301.
Snowplow. L. L. Millard. No. 1,359,090; Nov. 16; v. 280; p. 474.

Digitized by Google

Snowplow. L. H. Stowell. No. 1,328,973; Jan. 27; v. 270; p. 521.
Snowplow. J. Wojtasiewicz. No. 1,328,026; Jan. 13; v. 270; p. 276.
Snowplow and snow-loader, Rotary. W. L. Stadig. No. 1,348,383; Aug. 3; v. 277; p. 50.
Snow-plow, Street or road. F. Brueggeman. No. 1,334,516; Mar. 23; v. 272; p. 600.
Snow-removal and steam-heating system. W. F. Guerin. No. 1,350,968; Aug. 24; v. 277; p. 723.
Snow-removal apparatus. D. H. Warner. No. 1,327,645; Jan. 13; v. 270; p. 204.
Snow removing and melting machine. J. J. Ryan. No. 1,351,542; Aug. 31; v. 277; p. 899.
Snubber. C. L. Baender. No. 1,337,878; Apr. 20; v. 278; p. 547.
Soap and applicator holder. C. A. Maher. No. 1.348,025; July 27; v. 276; p. 711.
Soap and mordant, Dye. D. J. Block. No. 1,361,811; Dec. 14; v. 281; p. 213.
Soap-bubble blower. M. G. Dobbins. No. 1,359,342; Nov. 16; v. 280; p. 523.
Soap-bubble device. M. G. Dobbins. No. 1,340,758; May 18; v. 274; p. 529.
Soap cake for general scouring and cleaning purposes, Scouring. W. C. Ricketts. No. 1,328,898; Jan. 27; v. 270; p. 506.
Soap-cake retainer. T. H. Colburn. No. 1,350,784; Aug. 24; v. 277; p. 688.
Soap-container. W. A. Collins. No. 1,339,166; May 4; v. 274; p. 96.
Soap-container. E. O'Connor. No. 1,350,175; Aug. 17; v. 277; p. 523.
Soap-dish. T. R. Conner. No. 1,340,327; May 18; v. 274; p. 447.
Soap-dish, Collapsible. P. H. Welcker. No. 1,353,103; Sept. 14; v. 278; p. 806.
Soap-dispenser. A. Asel. No. 1,357,925; Nov. 2; p. 280; p. 188.
Soap dispenser, Liquid-. J. M. Dabrowski. No. 1,349,121; Aug. 10; v. 277; p. 244.
Soap dispenser, Liquid-. E. L. Morris. No. 1,361,891; Dec. 14; v. 281; p. 229.
Soap-dispensing apparatus. C. D. Myers. No. 1,329,199; Jan. 27; v. 270; p. 563.
Soap-dispensing device. C. E. Ewing. No. 1,343,815; June 15; v. 275; p. 549.
Soap-grip. H. M. Applegate. No. 1,332,096; Feb. 24; v. 271; p. 686.
Soap-hanger. W. G. Davis. No. 1,342,844; June 8; v. 275; p. 294.
Soap-holder. F. Leach. No. 1,328,528; Jan. 20; v. 270; p. 408.
Soap-holder. M. Rubin and W. Levine. No. 1,329,097; Jan. 27; v. 270; p. 543.
Soap-holder. S. Szuba. No. 1,337,852; Apr. 20; v. 278; p. 541.
Soap-holder. P. K. Williams. No. 1,331,549; Feb. 24; v. 271; p. 532.
Soap-holder. J. Wirth. No. 1,350,585; Aug. 24; v. 277; p. 650.
Soap-holder. E. K. Wolfe. No. 1,337,535; Apr. 20; v. 278; p. 482.
Soap holder, Cake-of-. H. Silver. No. 1,333,941; Mar. 16; v. 272; p. 446.
Soap-holder, Sanitary. F. Martucci. No. 1,328,177; Jan. 13; v. 270; p. 304.
Soap, Making. F. Lara. No. 1,335,246; Mar. 30; v. 272; p. 798.
Soap-making apparatus. H. J. Nicholls. No. 1,339,126; May 4; v. 274; p. 90.
Soap, Manufacture of dye-. C. S. Robison. No. 1,353,182; Sept. 21; v. 278; p. 382.
Soap or cleaning compound. E. D. Chaplin. No. 1,362,393; Dec. 14; v. 281; p. 328.
Soap or similar products into pieces, and pressing the pieces obtained, Multiple automatic machine for cutting bars of. G. Brunet. No. 1,361,439; Dec. 7; v. 281; p. 93.
Soaps and detergents, Making. M. Aisen. No. 1,360,252; Nov. 30; v. 280; p. 817.
Soaps and detergents, Making. M. Aisen. No. 1,360,253; Nov. 30; v. 280; p. 817.
Soaps and detergents, Making. M. Aisen. No. 1,360,254; Nov. 30; v. 280; p. 817.
Soaps in cake or powder form, Manufacturing solid toilet and household. O. Vols. No. 1,342,783; June 8; v. 275; p. 282.
Soapy liquors, Treatment of. C. L. Peck. No. 1,349,530; Aug. 10; v. 277; p. 825.
Sock. P. D. Hagan. No. 1,330,315; Feb. 10; v. 271; p. 212.
Socket. J. Eger. No. 1,330,248; Feb. 10; v. 271; p. 249.
Socket. E. R. Pickard and E. C. Platts. No. 1,359,424; Nov. 16; v. 280; p. 539.
Socket and adapter. W. Halter. No. 1,336,481; Apr. 13; v. 273; p. 197.
Socket head, Multiple-. F. K. Lawrence. No. 1,360,121; Nov. 23; v. 280; p. 723.
Socket or receptacle. H. R. Sargent and T. A. Koch. No. 1,334,799; Mar. 23; v. 272; p. 654.
Socket, Plural. D. D. Gordon. No. 1,341,054; May 25; v. 274; p. 657.
Socket, Protective. S. L. Adelson. No. 1,348,620; Aug. 3; v. 277; p. 95.
Socket, Pull-. D. Hjorth. No. 1,360,218; Nov. 23; v. 280; p. 741.
Socket, Pull-. G. B. Thomas and C. E. Anderson. No. 1,333,352; Mar. 9; v. 272; p. 275.
Socket, Spring swivel-jar. P. Arbon. No. 1,343,542; June 15; v. 275; p. 494.
Socket-switch, Heat-dissipating. R. D. Smith. No. 1,343,690; June 15; v. 275; p. 524.
Socket switch, Lamp-dimming-. R. D. Smith. No. 1,343,689; June 15; v. 275; p. 524.
Socket, Swivel-jar. P. Arbon. No. 1,331,892; Feb. 24; v. 271; p. 598.
Socket, Swivel-jar. P. Arbon. No. 1,343,541; June 15; v. 275; p. 494.
Socket-wrench. D. F. Graham. No. 1,328,428; Jan. 20; v. 270; p. 388.
Socket-wrench. M. Harrison. No. 1,334,154; Mar. 16; v. 272; p. 486.
Socket-wrench. R. Mitchell. No. 1,346,505; July 13; v. 276; p. 294.
Socket-wrench, A. Stern. No. 1,343,692; June 15; v. 275; p. 525.
Socket-wrench, Adjustable. U. G. Argetsinger. No. 1,357,935; Nov. 9; v. 280; p. 201.
Sod cutting and disintegrating machine. R. L. Thompson. No. 1,349,926; Aug. 17; v. 277; p. 474.
Sod-disintegrator and quack-grass eradicator. A. Newdall, N. P. Nelson, and M. Newdall. No. 1,341,861; June 1; v. 275; p. 49.
Soda, &c., Depositing. W. W. Waterson. No. 1,350,128; Aug. 17; v. 277; p. 513.
Soda-fountain apparatus. C. L. Bastian. No. 1,327,189; Jan. 6; v. 270; p. 58.
Soda-fountain faucets, Attachment for. J. H. Holland. No. 1,347,373; July 20; v. 276; p. 524.
Soda-lime composition and preparing same. R. E. Wilson and C. P. McNeil. No. 1,335,949; Apr. 6; v. 273; p. 46.
Soda, Machine or apparatus for breaking up or pulverizing caustic. W. Blacker. No. 1,327,901; Jan. 13; v. 270; p. 252.
Soda, Manufacturing. T. Nishigawa. No. 1,359,097; Nov. 16; v. 280; p. 475.
Sodium and potassium to chromic oxid and sulfate, Conversion of chromate and bichromate of. F. M. Mooney. No. 1,330,131; Feb. 10; v. 271; p. 179.
Sodium bicarbonate and hydrogen, Producing. A. Nagelvoort. No. 1,352,211; Sept. 7; v. 278; p. 95.
Sodium bicarbonate from alkaline waters, Obtaining. C. Sunderstrom. No. 1,349,447; Aug. 10; v. 277; p. 309.
Sodium compound of dioxy-diamino-arseno-bensol-dihydrochlorid. U. Susuki. No. 1,330,288 Feb. 10; v. 271; p. 207.
Sodium, Making metallic. A. W. Smith and W. R. Veazey. No. 1,334,179; Mar. 16; v. 272; p. 491.
Sodium silicate, Dissolving. E. A. Taylor. No. 1,341,288; May 25; v. 274; p. 702.
Sofa. O. Fichtenbaum. No. 1,363,400; Dec. 28; v. 281; p. 615.
Sofa or armchair that can be converted to a bed. M. B. Bryld. No. 1,359,027; Nov. 16; v. 280; p. 463.
Softening apparatus. B. S. Lee. No. 1,341,183; May 25; v. 274; p. 682.
Softening apparatus. T. Lund. No. 1,355,836; Oct. 19; v. 279; p. 365.
Soil and seed inoculation. C. F. Diller. No. 1,354,808; Oct. 5; v. 279; p. 73.
Soil breaking and pulverizing machine. L. A. Greene. No. 1,333,543; Mar. 9; v. 272; p. 311.
Soil-pulverizer. C. Hebert. No. 1,357,235; Nov. 2; v. 280; p. 7.
Soil-pulverizer. W. H. Sherrod. No. 1,328,800; Jan. 20; v. 270; p. 458.
Soil-pulverizer. W. H. Sherrod. No. 1,349,858; Aug. 17; v. 277; p. 462.
Soil pulverizer and packer, Tandem. H. C. Babcock and J. H. McCreary. No. 1,337,425; Apr. 20; v. 273; p. 460.
Soil-tiller. J. A. Gibson. No. 1,333,911; Mar. 16; v. 272; p. 440.
Soil treatment, Process of and apparatus for. H. Knight. No. 1,359,177; Nov. 16; v. 280; p. 490.
Soil-working implement. B. R. Brown. No. 1,328,121; Jan. 13; v. 270; p. 294.
Solar heater. E. D. Arthur and W. G. Cartter. No. 1,338,644; Apr. 27; v. 273; p. 760.
Solder. C. W. Hill. No. 1,333,619; Mar. 16; v. 272; p. 386.
Solder. G. P. Luckey. No. 1,333,666; Mar. 16; v. 272; p. 395.
Solder. B. E. Newell. No. 1,357,297; Nov. 2; v. 280; p. 19.
Solder-applying machine. S. N. Tevander. No. 1,358,480; Nov. 9; v. 280; p. 310.
Solder, Bar-. J. Dean. No. 1,355,654; Oct. 12; v. 279; p. 289.
Solder composition. C. F. Allison. No. 1,349,648; Aug. 17; v. 277; p. 421.

Digitized by Google

Solder-flux. C. L. Bonsteel. No. 1,332,160; Feb. 24; v. 271; p. 647.
Solder for aluminum. R. A. Jacobsen. No. 1,341,508; May 25; v. 274; p. 745.
Solder for metals, particularly aluminium. R. Iversen. No. 1,332,899; Mar. 9; v. 272; p. 190.
Solder, Making. J. Salm. No. 1,326,971; Jan. 6; v. 270; p. 18.
Solder, Manufacturing. E. E. P. J. P. S. J. de St. Laurent. No. 1,338,966; May 4; v. 274; p. 58.
Solder-pot heater, Induction. O. A. Colby. No. 1,352,430; Sept. 14; v. 278; p. 173.
Soldering and melting apparatus. P. M. Elias and F. F. Llera. No. 1,329,270; Jan. 27; v. 270; p. 576.
Soldering apparatus, Electric. E. Martin. No. 1,354,986; Oct. 5; v. 279; p. 107.
Soldering composition. F. E. Lampe. No. 1,327,620; Jan. 13; v. 270; p. 199.
Soldering-cup, Universal. C. J. Lehman, Jr. No. 1,359,260; Nov. 16; v. 280; p. 506.
Soldering, Electric. H. K. Parsons and H. H. Styll. No. 1,340,736; May 18; v. 274; p. 525.
Soldering-flux. E. L. Williams. No. 1,359,010; Nov. 16; v. 280; p. 460.
Soldering-iron. L. R. Barber and J. A. Baker. No. 1,357,606; Nov. 2; v. 280; p. 76.
Soldering-iron. E. T. Mahan. No. 1,334,254; Mar. 16; v. 272; p. 504.
Soldering-iron. H. Remané. No. 1,350,181; Aug. 17; v. 277; p. 524.
Soldering-iron. J. H. van Viersen. No. 1,332,937; Mar. 9; v. 272; p. 197.
Soldering-iron, Electric. F. Eichenberger. No. 1,361,032; Dec. 7; v. 281; p. 10.
Soldering-iron, Electric. O. Stålhane and O. O. Kring. No. 1,345,645; July 6; v. 276; p. 62.
Soldering-iron holder. C. S. Hall and F. D. Smith. No. 1,333,616; Mar. 16; v. 272; p. 385.
Soldering-iron, Self-heated. H. Silver. No. 1,345,411; July 6; v. 276; p. 17.
Soldering-irons, Electric heater for. W. A. Lanahan. No. 1,330,712; Feb. 10; v. 271; p. 287.
Soldering machine, Can-body-side-seam-. J. Brenzinger. No. 1,349,044; Aug. 10; v. 277; p. 229.
Soldering-machines. M. E. Widell. No. 1,338,716; May 4; v. 274; p. 13.
Soldering sheet-metal vessels, Apparatus for. G. H. Bennett. No. 1,343,493; June 15; v. 275; p. 484.
Soldering-tool, Hand. S. Davies. No. 1,341,497; May 25; v. 274; p. 743.
Soldering-tool, Self-heating. C. M. Padgett. No. 1,333,590. Mar. 9; v. 272; p. 320.
Soldier's equipment. E. B. Archibald. No. 1,334,582; Mar. 23; v. 272; p. 613.
Sole. H. K. Hitchcock. No. 1,340,341; May 18; v. 274; p. 450.
Sole-edge-treating machine. A. J. McCormack. No. 1,352,209; Sept. 7; v. 278; p. 95.
Sole-fitting machine. F. E. Bertrand. No. 1,350,354; Aug. 24; v. 277; p. 604.
Sole-fitting machine. A. E. Johnson. No. 1,349,723; Aug. 17; v. 277; p. 436.
Sole-fitting machine. F. H. Perry. No. 1,338,957; May 4; v. 274; p. 57.
Sole for the prevention of the development of galls, Inlay-. A. Augestad. No. 1,352,865; Sept. 14; v. 278; p. 260.
Sole-holder. J. W. Cosgrove. No. 1,353,892; Sept. 28; v. 278; p. 566.
Sole-holder. J. W. Cosgrove. No. 1,363,314; Dec. 28; v. 281; p. 599.
Sole-laying machine, Pad for. M. M. Sörensen. No. 1,349,301; Aug. 10; v. 277; p. 280.
Sole, Non-slippable. A. E. Rendle. No. 1,350,839; Aug. 24; v. 277; p. 699.
Sole-preparing machine. W. C. Stewart. No. 1,349,740; Aug. 17; v. 277; p. 440.
Sole-pressing machine. A. Eppler. No. 1,363,399; Dec. 28; v. 281; p. 614.
Sole-pressing machine. W. C. Stewart. No. 1,327,179; Jan. 6; v. 270; p. 56.
Sole rack, Cut-. W. P. Hammond. No. 1,348,178; Aug. 3; v. 277; p. 8.
Sole-rounding machine. L. G. Smith. No. 1,331,789; Feb. 24; v. 271; p. 578.
Soles, Apparatus for producing. G. Ferguson. No. 1,354,734; Oct. 5; v. 279; p. 57.
Soles, Machine for operating on. A. E. Johnson. No. 1,344,041; June 22; v. 275; p. 658.
Soles, Machine for operating on. T. H. Seely. No. 1,344,063; June 22; v. 275; p. 663.
Solidifying or concentrating materials, Apparatus for. J. W. Leitch. No. 1,343,833; June 15; v. 275; p. 553.
Solution, Apparatus for recovering material from. W. D. Mount. No. 1,352,210; Sept. 7; v. 278; p. 95.
Solution, Obtaining a concentrated SO_2. N. C. Christensen. No. 1,341,734; June 1; v. 275; p. 24.
Solutions, Making and transporting. F. W. Thorold. No. 1,344,102; June 22; v. 275; p. 670.
Solutions, Separating water or other liquids from. E. Öman. No. 1,359,911; Nov. 23; v. 280; p. 681.
Solvents, Apparatus for reclaiming. P. Gerli and O. A. Ross. No. 1,345,083; June 29; v. 275; p. 925.
Sorting and accounting machine. F. M. Carroll and R. M. Blakeley. No. 1,361,791; Dec. 7; v. 281; p. 162.
Sorting apparatus. G. S. Helenbolt. No. 1,338,729; May 4; v. 274; p. 15.
Sorting heterogeneous material, Apparatus for. D. R. Bryan. (Reissue.) No. 14,917; July 20; v. 276; p. 546.
Sound-absorbing and heat-insulating material and making same. J. Comerma. No. 1,358,830; Nov. 16; v. 280; p. 425.
Sound-absorbing materials for walls and ceilings. W. C. Sabine and R. Guastavino. (Reissue.) No. 14,992; Nov. 23; v. 280; p. 749.
Sound-amplifier. P. R. Gonsky. No. 1,356,351; Oct. 19; v. 279; p. 468.
Sound-amplifier. J. Mersman. No. 1,344,307; June 22; v. 275; p. 710.
Sound-amplifying device. T. H. Grigg. No. 1,346,491; July 13; v. 276; p. 291.
Sound and heating element, Combined. A. J. Walter. No. 1,355,932; Oct. 19; v. 279; p. 384.
Sound and other purposes and making same, Material for deadening. H. B. MacFarland and R. J. Shoemaker. No. 1,333,624; Mar. 16; v. 272; p. 387.
Sound and shock absorbing foot. N. H. Anderson. (Reissue.) No. 14,964; Oct. 26; v. 279; p. 681.
Sound and shock absorbing machine-support. N. H. Anderson. No. 1,356,182; Oct. 19; v. 279; p. 434.
Sound, Apparatus for recording and reproducing. R. S. Arthur. No. 1,355,523; Oct. 12; v. 279; p. 265.
Sound-box. F. Cheney. No. 1,339,809; May 11; v. 274; p. 293.
Sound-box. E. Fletcher. No. 1,331,864; Feb. 24; v. 271; p. 593.
Sound-box. R. Head. No. 1,334,094; Mar. 16; v. 272; p. 475.
Sound-box. M. Krauss. No. 1,359,713; Nov. 23; v. 280; p. 641.
Sound-box. H. Y. Prendergast. No. 1,338,395; Apr. 27; v. 273; p. 714.
Sound-box. H. Y. Prendergast. No. 1,338,396; Apr. 27; v. 273; p. 714.
Sound-box. E. T. Turney. No. 1,340,854; May 18; v. 274; p. 547.
Sound-box attachment. W. H. Fraser. No. 1,358,719; Nov. 16; v. 280; p. 402.
Sound-box diaphragm. D. Di Carlo. No. 1,330,060; Feb. 10; v. 271; p. 165.
Sound-box, Floating-weight. E. Cassca. No. 1,340,436; May 18; v. 274; p. 469.
Sound-box for sound record and reproducing machines. E. R. Johnson. No. 1,353,479; Sept. 21; v. 278; p. 439.
Sound-box for sound recording and reproducing machines. I. F. Burton. No. 1,350,590; Aug. 24; v. 277; p. 651.
Sound-box for sound-reproducing and sound-recording machines. A. C. Diehl. No. 1,350,595; Aug. 24; v. 277; p. 652.
Sound-boxes, Needle-magazine and feeding device for. J. Jones. No. 1,358,157; Nov. 9; v. 280; p. 245.
Sound-conduit. E. H. Hand. No. 1,346,649; July 13; v. 276; p. 323.
Sound-controller. W. A. Sommerhof. No. 1,327,118; Jan. 6; v. 270; p. 45.
Sound-detecting device. W. S. Tucker. No. 1,351,356; Aug. 31; v. 277; p. 863.
Sound detector and recorder. W. J. Perkins. No. 1,329,925; Feb. 3; v. 271; p. 108.
Sound-direction indicator. W. S. Hogg. No. 1,354,299; Sept. 28; v. 278; p. 649.
Sound-emitter. S. Evershed and W. D. Kilroy. No. 1,333,298; Mar. 9; v. 272; p. 264.
Sound-insulating support. A. F. Walther. No. 1,350,349; Aug. 24; v. 277; p. 602.
Sound insulation, Method and apparatus for. R. A. Fessenden. No. 1,348,828; Aug. 3; v. 277; p. 134.
Sound-matrices, Press for mounting. C. F. Burroughs. No. 1,328,264; Jan. 20; v. 270; p. 357.
Sound-modifying means. E. Cassca. No. 1,342,662; June 8; v. 275; p. 257.
Sound-modulating device. H. K. Sandell. No. 1,361,500; Dec. 7; v. 281; p. 105.
Sound-producing apparatus. J. Björnstad. No. 1,399,158; May 4; v. 274; p. 94.
Sound-record tablet and producing same. V. H. Emerson. No. 1,341,740; June 1; v. 275; p. 25.
Sound-records and making same, Composition of matter for. T. A. Edison. No. 1,342,326; June 1; v. 275; p. 139.
Sound-records, Device for forming grooves in. H. K. Sandell. No. 342,872; June 8; v. 275; p. 300.
Sound-records, Matrix for producing. J. W. Aylsworth and E. L. Aiken. No. 1,345,115; June 29; v. 275; p. 981.
Sound-records, Automatic stop for visible records corresponding to. F. D. Lewis. No. 1,358,085; Nov. 9; v. 280; p. 231.
Sound-records, Manufacturing. V. H. Emerson. No. 1,358,522; Sept. 21; v. 278; p. 448.

Digitized by Google

Sound-records, Making. R. Head. No. 1,358,949; Nov. 16; v. 280; p. 448.
Sound-records, Matrix for. F. G. Mayer. No. 1,327,722; Jan. 13; v. 270; p. 219.
Sound-records, Process of making. E. M. Berlinger. No. 1,355,791; Oct. 12; v. 279; p. 316.
Sound-records, Producing. J. W. Aylsworth and E. L. Aiken. No. 1,347,668; July 27; v. 276; p. 639.
Sound recorder and reproducer. E. Steiger. No. 1,350,246; Aug. 17; v. 277; p. 536.
Sound recording and reproducing machine. R. S. Arthur. No. 1,357,936; Nov. 9; v. 280; p. 201.
Sound recording and reproducing machine. A. Cortella. No. 1,341,011; May 25; v. 274; p. 649.
Sound-recording and sound-reproducing machine. J. H. Neher. No. 1,363,903; Dec. 28; v. 281; p. 718.
Sound-recording means. C. Moore. No. 1,335,595; Mar. 30; v. 272; p. 863.
Sound-reproducer. H. S. Deacon. No. 1,332,661; Mar. 2; v. 272; p. 93.
Sound-reproducer. E. J. Rodgers. No. 1,359,466; Nov. 16; v. 280; p. 548.
Sound-reproducer. E. J. Rodgers. No. 1,359,467; Nov. 16; v. 280; p. 548.
Sound-reproducers, Repeating attachment for. A. B. Puddicombe. No. 1,361,405; Dec. 7; v. 281; p. 85.
Sound-reproducing apparatus, Stop mechanism for. T. J. Murphy. No. 1,359,728; Nov. 23; v. 280; p. 644.
Sound-reproducing device. B. S. del Borgo. No. 1,354,474; Oct. 5; v. 279; p. 5.
Sound-reproducing devices, Apparatus for raising the tone-arms of. H. K. Sandell. No. 1,331,215; Feb. 17; v. 271; p. 450.
Sound-reproducing instrument. R. L. Poe. No. 1,363,482; Dec. 28; v. 281; p. 681.
Sound-reproducing instruments, Record-repeating device for. R. P. Christensen. No. 1,340,524; May 18; v. 274; p. 485.
Sound-reproducing machine. F. Cirelli. No. 1,357,381; Nov. 2; v. 280; p. 34.
Sound-reproducing machines, Amplifier for. W. E. Pugsley. No. 1,360,577; Nov. 30; v. 280; p. 880.
Sound-reproducing machines, Automatic stop for. O. O. Storie. No. 1,330,559; Feb. 10; v. 271; p. 258.
Sound reproducing machines, Automatic stop for. O. O. Storie. No. 1,341,767; June 1; v. 275; p. 31.
Sound-reproducing machines, Brake or stop device for. R. T. Bell and L. Mandel. No. 1,336,606; Apr. 13; v. 273; p. 230.
Sound-reproducing machines, Record-cleaner for. G. A. Fandrey. No. 1,354,386; Sept. 28; v. 278; p. 666.
Sound-reproducing machines, Record-repeating device for. R. P. Christensen. No. 1,340,525; May 18; v. 274; p. 485.
Sound-reproducing machines, Repeating device for. E. Peremi. No. 1,343,087; June 8; v. 275; p. 342.
Sound-reproducing machines, Stylus for. C. H. Gill. No. 1,329,832; Feb. 3; v. 271; p. 92.
Sound-reproducing mechanism, Time control for. A. C. Dittrich. No. 1,337,759; Apr. 20; v. 273; p. 524.
Sound-reproducing mechanism, Time control for. A. C. Dittrich. No. 1,337,760; Apr. 20; v. 273; p. 524.
Sound-reproducing record. R. Foresman. No. 1,356,815; Oct. 26; v. 279; p. 604.
Sound - transmitting appliance. G. J. Carlisle. No. 1,356,599; Oct. 26; v. 279; p. 562.
Sounds, Apparatus for muffling. J. O. Fisher. No. 1,341,976; June 1; v. 275; p. 71.
Sounds, Means for detecting and locating subaqueous. A. F. Sykes and J. T. MacGregor-Morris. No. 1,360,330; Nov. 30; v. 280; p. 831.
Sounds, Method and apparatus for comparing. C. M. Heck. No. 1,356,359; Oct. 19; v. 279; p. 469.
Sounding apparatus. E. C. Fischer. No. 1,349,718; Aug. 17; v. 277; p. 435.
Sounding apparatus. A. Martinusen and J. W. Storfold. No. 1,359,517; Nov. 23; v. 280; p. 603.
Sounding-board, Free. G. Virzi. No. 1,349,700; Aug. 17; v. 277; p. 432.
Soundboard. G. C Wismer. No. 1,353,555; Sept. 21; v. 278; p. 455.
Sowing implement, Combined cultivating and seed and fertilizer. E. A. Reichelt. No. 1,355,691; Oct. 12; v. 279; p. 297.
Spacer-block for refractory arches. A. H. Willett. No. 1,343,243; June 15; v. 275; p. 437.
Spacer, Proportional. M. E. Concannon. No. 1,351,889; Sept. 7; v. 278; p. 36
Spacing-clip. W. E. White. No. 1,352,642; Sept. 14; v. 278; p. 215.
Spacing device. G. H. Tod and E. H. Beck. No. 1,338,800; May 4; v. 274; p. 28.
Spacing-machine. G. P. Thomas. No. 1,342,880; June 8; v. 275; p. 302.
Spade. C. E. Miller. No. 1,335,848; Apr. 6; v 273; p. 27.
Spade and like digging-tool. F. J. Dann. No. 1,353,459; Sept. 21; v. 278; p. 435.
Spade or shovel. J. A. Southwell. No. 1,352,921; Sept. 14; v. 278; p. 271.
Spades, Making. W. H. Cowdery. No. 1,360,892; Nov. 30; v. 280; p. 942.
Spanner. J. J. Woodward. No. 1,343,882; June 15; v. 275; p. 563.
Spanner or wrench. A. W. Blair. No. 1,359,660; Nov 23; v. 280; p. 630.
Spanner or wrench, Adjustable. W. H. Baraclough. No. 1,333,956; Mar. 16; v. 272; p. 449.
Spanners, wrenches, vises, clamps, pipe-cutters, pipe-grips, and like tools, Construction of adjustable. F. Humphris. No. 1,343,826; June 15; v. 275; p. 551.
Spar and boom turning machine. A. I. Robbins. No. 1,350,840; Aug. 24; v. 277; p. 699.
Spare-rim carrier, Automobile. C. C. Steel and T. H. Lynn. No. 1,347,562; July 27; v. 276; p. 618.
Spark and soot collector. M. F. Lockett. No. 1,330,272; Feb. 10; v. 271; p. 204.
Spark and throttle lever lock. J. H. Price. No. 1,331,873; Feb. 24; v. 271; p. 595.
Spark-arrester. B. A. Ashby. No. 1,328,868; Jan. 27; v. 270; p. 500.
Spark-arrester. R. Brown. No. 1,347,680: July 27; v. 276; p. 642.
Spark-arrester. S. S. Caskey. No. 1,339,495; May 11; v. 274; p. 233.
Spark-arrester. B. C. Hardgrove. No. 1,349,151; Aug. 10; v. 277; p. 250.
Spark-arrester. A. E. Hudson. No. 1,347,374; July 20; v. 276; p. 525.
Spark-arrester. D. G. McDougall. No. 1,333,323; Mar. 9; v. 272; p. 269.
Spark-arrester. W. B. Macaulay. No. 1,362,025; Dec. 14; v. 281; p. 256.
Spark arrester and quencher. E. A. Evans. No. 1,329,115; Jan. 27; v. 270; p. 547.
Spark-arrester, Automatic. A. D. Jones. No. 1,355,761; Oct. 12; v. 279; p. 310.
Spark-arresting device. F. L. Connable. No. 1,339,498; May 11; v. 274; p. 233.
Spark-coil. J. F. Cavanagh. No. 1,339,100; May 4; v. 274; p. 84.
Spark-coil. B. Dick. No. 1,361,232; Dec. 7; v. 281; p. 50.
Spark-coil-testing apparatus. E. C. Ballman. No. 1,339,804; May 11; v. 274; p. 292.
Spark-controlling device, Automatic. D. Boesch. No. 1,328,453; Jan. 20; v. 270; p. 393.
Spark-gap. O. W. Kinley. No. 1,342,816; June 8; v. 275; p. 289.
Spark-gap, Auxiliary. H. P. Altman. No. 1,346,522; July 13; v. 276; p. 277.
Spark - gap - controlling device. G. H. Taber. No. 1,337,853; Apr. 20; v. 273; p. 542.
Spark-gap device. R. F. Van Meter. No. 1,341,348; May 25; v. 274; p. 714.
Spark-gap indicator. T. F. Johnson, Jr. No. 1,344,042; June 22; v. 275; p. 658.
Spark-gap indicator. T. F. Johnson, Jr. No. 1,347,378; July 20; v. 276; p. 525.
Spark-gap, Self-cooled impact. H. E. Hallborg. No. 1,330,182; Feb. 10; v. 271; p. 188.
Spark-indicator and plug-tester. J. S. Stevenson. No. 1,348,456; Aug. 3; v. 277; p. 64.
Spark-plug. C. Andreason. No. 1,386,954; Oct. 26; v. 279; p. 631.
Spark-plug. H. W. Aschinger. No. 1,332,704; Mar. 2; v. 272; p. 101.
Spark-plug. J. R. Ayotte. No. 1,363,212; Dec. 28; v. 281; p. 579.
Spark-plug. F. W. Beall, Jr. No. 1,347,437; July 20; v. 276; p. 537.
Spark-plug. J. H. Becker and W. S. Bellows. No. 1,334,212; Mar. 16; v. 272; p. 497.
Spark-plug. G. A. Bell. No. 1,352,775; Sept. 14; v. 278; p. 242.
Spark-plug. J. Blomster and J. Schaben. No. 1,354,945; Oct. 5; v. 279; p. 99.
Spark-plug. R. Brewster. No. 1,362,773; Dec. 21; v. 281; p. 454.
Spark-plug. J. M. Bringman. No. 1,333,897; Mar. 16; v. 272; p. 438.
Spark-plug. J. Brooks. No. 1,340,116; May 11; v. 274; p. 351.
Spark-plug. L. Cammen and A. W. Ofeldt. No. 1,344,172; June 22; v. 275; p. 683.
Spark-plug. F. E. Carlson. No. 1,362,592; Dec. 14; v. 281; p. 328.
Spark-plug. H. W. Carpenter. No. 1,329,320; Jan. 27; v. 270; p. 584.
Spark-plug. A. J. Champion. No. 1,338,674; May 4; v. 274; p. 5.
Spark-plug. A. Champion. No. 1,358,828; Nov. 16; v 280; p. 424.
Spark-plug. C. D. Cleland. No. 1,346,003; July 6; v. 276; p. 133.
Spark-plug. J. H. Collins. No. 1,358,292; Nov. 9; v. 280; p. 271.
Spark-plug. W. H. Cotton. No. 1,340,526; May 18; v. 274; p. 485.
Spark-plug. H. E. Courson. No. 1,361,688; Dec. 7; v. 281; p. 142.
Spark-plug. H. M. Crowther. No. 1,356,129; Oct. 19; v. 279; p. 428.
Spark-plug. H. M. Crowther. No. 1,363,842; Dec. 28; v. 281; p. 701.

Digitized by Google

Spark-plug. H. M. Crowther. No. 1,363,843; Dec. 28; v. 281; p. 702.
Spark-plug. U. L. Cuevas. No. 1,334,135; Mar. 16; v. 272; p. 483.
Spark-plug. G. T. Dochtermann. No. 1,342,205; June 1; v. 275; p. 117.
Spark-plug. C. H. Duffy. (Reissue). No. 14,847; Apr. 27; v. 273; p. 763.
Spark-plug. C. H. Duffy. (Reissue.) No. 14,862; May 25; v. 274; p. 767.
Spark-plug. L. Enricht. No. 1,357,768; Nov. 2; v. 280; p. 108.
Spark-plug. L. S. Flatau. No. 1,352,592; Sept. 14; v. 278; p. 205.
Spark-plug. H. C. Garber. No. 1,327,382; Jan. 6; v. 270; p. 93.
Spark-plug. A. Gates. No. 1,337,216; Apr. 20; v. 273; p. 421.
Spark-plug. J. E. Genn. No. 1,328,147; Jan. 13; v. 270; p. 299.
Spark-plug. A. E. Glassman and J. Bartha. No. 1,359,358; Nov. 16; v. 280; p. 526.
Spark-plug. B. Glaze. No. 1,360,392; Nov. 30; v. 280; p. 843.
Spark-plug. H. M. Grimes. No. 1,359,591; Nov. 23; v. 280; p. 617.
Spark-plug. W. A. Gwynn. No. 1,336,221; Apr. 6; v. 273; p. 97.
Spark-plug. W. A. Gwynn. (Reissue.) No. 14,957; Oct. 12; v. 279; p. 318.
Spark-plug. F. Hachmann. No. 1,341,614; May 25; v. 274; p. 765.
Spark-plug. F. Hachmann. No. 1,357,975; Nov. 9; v. 280; p. 209.
Spark-plug. F. Hachmann. No. 1,361,826; Dec. 7; v. 281; p. 69.
Spark-plug. F. Hachmann. No. 1,361,827; Dec. 7; v. 281; p. 69.
Spark-plug. F. Hachmann and E. Wilson. No. 1,361,828; Dec. 7; v. 281; p. 69.
Spark-plug. T. E. Hall. No. 1,362,300; Dec. 14; v. 281; p. 310.
Spark-plug. R. H. Hand. No. 1,332,396; Mar. 2; v. 272; p. 43.
Spark-plug. T. F. Hanway. No. 1,334,698; Mar. 23; v. 272; p. 634.
Spark-plug. G. V. Harriman. No. 1,360,946; Nov. 30; v. 280; p. 951.
Spark-plug. G. L. Hers. No. 1,361,580; Dec. 7; v. 281; p. 121.
Spark-plug. R. R. Hill. 1,345,440; July 6; v. 276; p. 22.
Spark-plug. R. R. Hill. No. 1,360,294; Nov. 30; v. 280; p. 825.
Spark-plug. J. M. Hoffmann. No. 1,361,462; Dec. 7; v. 281; p. 98.
Spark-plug. M. Hoffmann. No. 1,344,892; June 29; v. 275; p. 889.
Spark-plug. S. H. Hughes. No. 1,360,956; Nov. 30; v. 280; p. 954.
Spark-plug. J. Iacono. No. 1,334,377; Mar. 23; v. 272; p. 574.
Spark-plug. E. M. Johnson. No. 1,341,058; May 25; v. 274; p. 658.
Spark-plug. J. Jorgenson. No. 1,353,593; Sept. 21; v. 278; p. 463.
Spark-plug. E. C. Kahn. No. 1,359,996; Nov. 23; v. 280; p. 698.
Spark-plug. A. V. Kinsel. No. 1,349,158; Aug. 10; v. 277; p. 252.
Spark-plug. A. Klever. No. 1,340,899; May 25; v. 274; p. 627.
Spark-plug. A. L. Kulick. No. 1,332,904; Mar. 9; v. 272; p. 190.
Spark-plug. L. F. Landa. No. 1,340,232; May 18; v. 274; p. 430.
Spark-plug. D. W. Lang and A. D. Vaughn. No 1,353,597; Sept. 21; v. 278; p. 464.
Spark-plug. W. F. Lange. No. 1,354,617; Oct. 5; v. 279; p. 35.
Spark-plug. O. M. Leich. No. 1,348,886; Aug. 10; v. 277; p. 198.
Spark-plug. A. E. C. and E. W. M. Lockewitz. No. 1,339,463; May 11; v. 274; p. 227.
Spark-plug. O. L. Longworth. No. 1,350,319; Aug. 24; v. 277; p. 597.
Spark-plug. C. F. Meyer. No. 1,344,954; June 29; v. 275; p. 900.
Spark-plug. A. R. Meyer. No. 1,346,759; July 13; v. 276; p. 345.
Spark-arrester. H. Morris. No. 1,358,095; Nov. 9; v. 280; p. 233.
Spark-plug. A. R. Mosler. No. 1,344,956; June 29; v. 275; p. 901.
Spark-plug. H. J. Munster. No. 1,336,914; Apr. 13; v. 273; p. 290.
Spark-plug. H. A. Myers. No. 1,356,304; Oct. 19; v. 279; p. 459.
Spark-plug. E. P. Nicholson. No. 1,363,904; Dec. 28; v. 281; p. 713.
Spark-plug. G. O. Nighswander. No. 1,361,847; Dec. 7; v. 281; p. 74.
Spark-plug. G. W. Noe. No. 1,356,782; Oct. 26; v. 279; p. 598.
Spark-plug. W. O. Olson. No. 1,335,793; Apr. 6; v. 273; p. 17.
Spark-plug. W. O. Olson. No. 1,354,126; Sept. 28; v. 278; p. 614.
Spark-plug. A. J. Perron. (Reissue.) No. 14,949; Sept. 14; v. 278; p. 312.
Spark-plug. M. W. Perry. No. 1,362,504; Dec. 14; v. 281; p. 349.
Spark-plug. J. J. Platt. No. 1,353,785; Sept. 21; v. 278; p. 501.
Spark-plug. D. M. Prettyman and G. H. Brown. No. 1,332,064; Feb. 24; v. 271; p. 630.
Spark-plug. J. Ransomer. No. 1,333,731; Mar. 16; v. 272; p. 407.
Spark-plug. W. C. Rents. No. 1,337,959; Apr. 20; v. 273; p. 562.
Spark-plug. J. E. Rich. No. 1,347,874; July 27; v. 276; p. 681.
Spark-plug. A. L. Riggs. No. 1,355,427; Oct. 12; v. 279; p. 246.
Spark-plug. F. Robinson. No. 1,347,662; July 27; v. 276; p. 638.
Spark-plug. E. Rogers. No. 1,340,674; May 18; v. 274; p. 514.
Spark-plug. O. C. Rohde. No. 1,335,797; Apr. 6; v. 273; p. 18.
Spark-plug. W. C. Rollins. No. 1,333,037; Mar. 9; v. 272; p. 216.
Spark-plug. L. S. Ross. No. 1,332,691; Mar. 2; v. 272; p. 98.
Spark-plug. H. B. Rummell. No. 1,331,029; Feb. 17; v. 271; p. 416.
Spark-plug. H. F. Sadgebury. No. 1,329,547; Feb. 3; v. 271; p. 38.
Spark-plug. A. Samson. No. 1,344,721; June 29; v. 275; 856.
Spark-plug. E. S. Savage. No. 1,359,923; Nov. 23; v. 280; p. 683.
Spark-plug. A. Schmidt. No. 1,352,089; Sept. 7; v. 278; p. 73.
Spark-plug. A. Schmidt. No. 1,352,148; Sept. 7; v. 278; p. 84.
Spark-plug. A. Schmidt. No. 1,352,149; Sept. 7; v. 278; p. 84.
Spark-plug. A. Schmidt. No 1,355,274; Oct. 12; v. 279; p. 217.
Spark-plug. A. Schmidt. No. 1,358,116; Nov. 9; v. 280; p. 237.
Spark-plug. A. Schmidt. No. 1,358,882; Nov. 16; v. 280; p. 435.
Spark-plug. E. H. Schwab. No. 1,359,437; Nov. 16; v. 280; p. 542.
Spark-plug. J. Sharp. No. 1,331,387; Feb. 17; v. 271; p. 482.
Spark-plug. C. E. Sherman. No. 1,331,282; Feb. 17; v. 271; p. 462.
Spark-plug. D. S. Short. No. 1,335,762; Apr. 6; v. 273; p. 11.
Spark-plug. C. C. Snodgrass. No. 1,341,221; May 25; v. 274; p. 689.
Spark-plug. W. H. Snyder. No. 1,352,554; Sept. 14; v. 278; p. 198.
Spark-plug. J. A. Storms. No. 1,360,814; Nov. 30; v. 280; p. 926.
Spark-plug. W. M. Sublette. No. 1,354,924; Oct. 5; v. 279; p. 95.
Spark-plug. H. C. Suckert. No. 1,363,931; Dec. 28; v. 281; p. 718.
Spark-plug. G. L. Truesdell. No. 1,339,429; May 4; v. 274; p. 220.
Spark-plug. R. B. Vessey. No. 1,355,628; Oct. 12; v. 279; p. 285.
Spark-plug. E. A. Warner. No. 1,337,169; Apr. 13; v. 273; p. 338.
Spark-plug. S. P. Welch. No. 1,348,913; Aug. 10; v. 277; p. 202.
Spark-plug. C. A. Wellman. No. 1,350,757; Aug. 24; v. 277; p. 683.
Spark-plug. A. A. Wells. No. 1,354,361; Sept. 28; v. 278; p. 661.
Spark-plug. M. S. Williams. No. 1,337,679; Apr. 20; v. 273; p. 508.
Spark-plug. A. M. C. Wilson. No. 1,359,642; Nov. 23; v. 280; p. 627.
Spark-plug. J. B. Yoch. No. 1,359,140; Nov. 16; v. 280; p. 483.
Spark-plug. W. H. Zeigler. No. 1,344,530; June 22; v. 275; p. 754.
Spark-plug and testing device. Combined. H. Cartmill. No. 1,355,310; Oct. 12; v. 279; p. 224.
Spark-plug changer. A. Camporini and J. Rena. No. 1,343,348; June 15; v. 275; p. 456.
Spark-plug cleaner. W. L. Boardman. No. 1,347,573; July 27; v. 276; p. 621.
Spark-plug cleaner. R. R. Shelton. No. 1,330,768; Feb. 10; v. 271; p. 297.
Spark-plug cleaner, tester, and adjuster. W. H. Wallace. No. 1,345,721; July 6; v. 276; p. 77.
Spark-plug-cleaning device. J. T. Galbreath. No. 1,347,366; July 20; v. 276; p. 523.
Spark-plug holder. C. E. Wake. No. 1,338,540; Apr. 27; v. 273; p. 740.

Digitized by Google

Spark-plug insulator. J. Ingels. No. 1,341,747; June 1; v. 275; p. 27.
Spark-plug insulators, Making. J. Scharl. No. 1,343,686. June 15; v. 275; p. 523.
Spark-plug intensifier. J. A. De Vilbiss and H. L. Miller. No. 1,335,940; Apr. 6; v. 273; p. 44.
Spark-plug intensifier. R. E. Hildebrand No. 1,353,657; Sept. 21; v. 278; p. 477.
Spark-plug intensifier. R. S. Patchen. No. 1,352,526; Sept. 14; v. 278; p. 192.
Spark-plug intensifier. W. F. Smith. No. 1,345,560; July 6; v. 276; p. 46.
Spark-plug, Magnetic. L. W. Rasmussen. No. 1,355,358; Oct. 12; v. 279; p. 233.
Spark plug, Multiple-. J. L. Nilson and J. Prince. No. 1,327,057; Jan. 6; v. 270; p. 34.
Spark-plug or radiator-leak finder. T. Osborn. No. 1,335,073; Mar. 30; v. 272; p. 766.
Spark-plug protector. H. E. Vail. No. 1,357,661; Nov. 2; v. 280; p. 87.
Spark-plug, Telltale. I. Harris. No. 1,343,626; June 15; v. 275; p. 511.
Spark-plug tester. E. I. Bass. No. 1,333,698; Mar. 16; v. 272; p. 401.
Spark-plug tester. E. Bordahl. No. 1,330,161; Feb. 10; v. 271; p. 184.
Spark-plug tester. W. S. Wolff. No. 1,332,017; Feb. 24; v. 271; p. 621.
Spark-plug, Triple-gap. J. D. Earney. No. 1,342,431; June 8; v. 275; p. 213.
Spark-plugs, Attachment for. W. J. O'Gorman. No. 1,343,372; June 15; v. 275; p. 461.
Spark-plugs, Automatic cleaning device for. W. C. Ouraler. No. 1,343,743; June 15; v. 275; p. 535.
Spark-plugs, Electrical connection for. H. B. Sherman and F. D. Maltby. No. 1,352,033; Sept. 7; v. 278; p. 62.
Spark-plugs, Making. J. H. Becker. No. 1,331,091; Feb. 17; v. 271; p. 428.
Spark-plugs, Manufacturing. F. C. Fisk. No. 1,333,400; Mar. 9; v. 272; p. 283.
Spark-plugs, Manufacture of. F. C. Fisk. No. 1,333,401; Mar. 9; v. 272; p. 283.
Spark-plugs, Spark-gap attachment for. H. C. Pogue. No. 1,329,013; Jan. 27; v. 270; p. 527.
Spark-plugs, Tool for testing. G. H. Ainge. No. 1,345,337; July 6; v. 276; p. 3.
Spark-plugs, Valve for air-cooled. J. J. Smith, Jr. No. 1,363,623; Dec. 28; v. 281; p. 659.
Spark-plugs, Waterproof connection for. A. Schmidt. No. 1,350,470; Aug. 24; v. 277; p. 627.
Spark-suppression method and device, Interrupter-. W. J. Crumpton. No. 1,350,300; Aug. 24; v. 277; p. 593.
Spark-timer and oil-pump, Combined. J. McClelland. No. 1,344,953; June 29; v. 275; p. 900.
Spark-wheel-toothing machine. A. L. Hansen. No. 1,344,299; June 22; v. 275; p. 708.
Sparker cutting-out and locking device. G. H. Tripp. No. 1,359,291; Nov. 16; v. 280; p. 512.
Sparking apparatus, Rolled condenser for. F. Kratz. No. 1,328,925; Jan. 27; v. 270; p. 512.
Sparking-plug. W. G. Clayton. No. 1,340,878; May 25; v. 274; p. 623.
Sparking plug, Air-cooled. J. Chapman. No. 1,342,421; June 8; v. 275; p. 211.
Sparking plug for ignition purposes. A. E. Heath. No. 1,343,052; June 8; v. 275; p. 336.
Sparking plug for ignition purposes. A. E. Heath. No. 1,349,454; Aug. 10; v. 277; p. 310.
Speaking-pipe. W. E. Haskell. No. 1,327,996; Jan. 13; v. 270; p. 270.
Spear. E. Gray. No. 1,337,902; Apr. 20; v. 273; p. 551.
Spear and cutter, Combination. J. F. Hill. No. 1,338,773; May 4; v. 274; p. 23.
Specific-gravity tester. J. H. Kessler. No. 1,360,537; Nov. 30; v. 280; p. 872.
Spectacle. K. R. Gitterman. No. 1,348,713; Aug. 3; v. 277; p. 113.
Spectacle-case clip. B. E. Martz. No. 1,330,208; Feb. 10; v. 271; p. 193.
Spectacle-lens. J. H. Hammon. No. 1,354,040; Sept. 28; v. 278; p. 596.
Spectacle nose-bridge. J. S. Galeski. No. 1,352,887; Sept. 14; v. 278; p. 265.
Spectacle-shade. K. R. Gitterman. No. 1,348,712; Aug. 3; v. 277; p. 112.
Spectacle-temple. I. M. Schwab. No. 1,337,330; Apr. 20; v. 273; p. 443.
Spectacles. S. I. Schwabacher. No. 1,351,491; Aug. 31; v. 277; p. 889.
Spectacles. J. Silverstein and J. B. Rothberg. No. 1,346,429; July 13; v. 276; p. 279.
Spectacles and eyeglasses, Rimless. R. H. Bradshaw. No. 1,337,818; Apr. 20; v. 273; p. 535.
Spectacles or goggles. J. H. Raphael and H. H. Scott. No. 1,338,526; Apr. 27; v. 273; p. 738.
Spectacles, Temple for. G. H. Day. No. 1,335,823; Apr. 6; v. 273; p. 22.
Speculum. C. E. Smith. No. 1,358,473; Nov. 9; v. 280; p. 309.
Speculum, Dental halter and mouth-. S. F. Vose. No. 1,331,542; Feb. 24; v. 271; p. 531.
Speech-reproducing device. G. F. Atwood. No. 1,337,304; Apr. 20; v. 273; p. 438.
Speed appliance, Mechanism change-. L. M. Shaw. No. 1,344,727; June 29; v. 275; p. 857.
Speed-change mechanism. R. E. Winters. No. 1,352,716; Sept. 14; v. 278; p. 230.
Speed-changing device. E. C. Head. No. 1,343,131; June 8; v. 275; p. 351.
Speed-changing-gear system. J. Tomoda. No. 1,343,944; June 22; v. 275; p. 639.
Speed-changing machine. T. H. Seely. No. 1,348,902; Aug. 10; v. 277; p. 201.
Speed-changing mechanism. M. Ritter. No. 1,350,670; Aug. 24; v. 277; p. 666.
Speed-changing transmission mechanism, Differential magnetic. C. M. Seidel. No. 1,330,398; Feb. 10; v. 271; p. 228.
Speed-control device. O. G. Gold. No. 1,346,071; July 6; v. 276; p. 147.
Speed-control equipment, Automatic. W. V. Turner. No. 1,339,677; May 11; v. 274; p. 268.
Speed-control mechanism, Automatic. J. F. Webb, Jr. No. 1,361,509; Dec. 7; v. 281; p. 107.
Speed-controller. F. A. Pequegnat and C. C. Knoll. No. 1,338,191; Apr. 27; v. 273; p. 675.
Speed-controlling apparatus. S. Sparrow. No. 1,330,961; Feb. 17; v. 271; p. 403.
peed-controlling mechanism. L. M. Shaw. No. 1,344,726; June 29; v. 275; p. 857.
Speed-controlling system. G. B. Stone. No. 1,362,546; Dec. 14; v. 281; p. 358.
Speed device, Variable-. X. B. Duncan. No. 1,355,948; Oct. 19; v. 279; p. 387.
Speed device, Variable-. A. H. Jessen. No. 1,350,255; Aug. 17; v. 277; p. 538.
Speed-governor control, Variable-. W. W. Wells. No. 1,337,865; Apr. 20; v. 273; p. 544.
Speed-indicating instrument. W. Van Guilder. No. 1,353,865; Sept. 28; v. 278; p. 561.
Speed-indicator. J. Brandstetter. No. 1,354,278; Sept. 28; v. 278; p. 645.
Speed-indicator. F. Gardner. No. 1,329,046; Jan. 27; v. 270; p. 534.
Speed-indicator. M. Weisenback. No. 1,355,440; Oct. 12; v. 279; p. 248.
Speed indicator, Mean-. H. Petit. No. 1,350,620; Aug. 24; v. 277; p. 656.
Speed-limiting device. E. G. Hodges. No. 1,348,831; Aug. 3; v. 277; p. 134.
Speed, Mechanical device for transmitting and regulating. C. Sollima. No. 1,336,542; Apr. 13; v. 273; p. 218.
Speed mechanism, Adjustable variable-. J. H. Woolcott. No. 1,329,945; Feb. 3; v. 271; p. 112.
Speed mechanism, Variable-. O. S. Jeffries, Sr. No. 1,337,602; Apr. 20; v. 273; p. 494.
Speed mechanism, Variable-. W. Wenderhold. No. 1,346,357; July 13; v. 276; p. 265.
Speed meter and angle of incidence and side slip indicator, with dial therefor, Combined air-. O. A. Danielson. No. 1,332,810; Mar. 2; v. 272; p. 121.
Speed of motors, Device for regulating and maintaining constant the. R. Eisenmann. No. 1,350,214; Aug. 17; v. 277; p. 531.
Speed power-transmission mechanism, Automatic variable-. W. D. M. Howard. No. 1,335,168; Mar. 30; v. 272; p. 784.
Speed-recorder. H. A. Bowdish. No. 1,347,676; July 27; v. 276; p. 641.
Speed-reducing mechanism. J. Janicki. No. 1,355,607; Oct. 12; v. 279; p. 280.
Speed-regulating apparatus. V. A. Fynn. No. 1,345,539; July 6; v. 276; p. 42.
Speed-regulating apparatus. V. A. Fynn. No. 1,345,540; July 6; v. 276; p. 42.
Speed-regulating apparatus. V. A. Fynn. No. 1,350,446; Aug. 24; v. 277; p. 623.
Speed-regulating apparatus. V. A. Fynn. No. 1,350,447; Aug. 24; v. 277; p. 623.
Speed-regulating device. W. J. Herschede and C. Cohan. No. 1,352,410; Sept. 7; v. 278; p. 134.
Speed-regulating means. T. A. Bragg. No. 1,358,029; Nov. 16; v. 280; p. 445.
Speed-regulator. H. A. Laycock. No. 1,334,868; Mar. 23; v. 272; p. 668.
Speed-regulator, Automatic. C. S. Olson. No. 1,352,310; Sept. 7; v. 278; p. 115.
Speed-responsive device. I. Crabb. No. 1,332,808; Mar. 2; v. 272; p. 121.
Speed-responsive device. W. K. Howe. No. 1,334,902; Mar. 23; v. 272; p. 674.
Speed-transformer. M. M. Goldberg. No. 1,328,083; Jan. 13; v. 270; p. 286.
Speed transmission, Change-. A. B. Landis. No. 1,353,355; Sept. 21; v. 278; p. 415.
Speed-transmission device, Variable-. W. Wenderhold. No. 1,329,867; Feb. 3; v. 271; p. 98.
Speed transmission, Gearless variable-. W. Dunn. No. 1,343,254; June 15; v. 275; p. 488.

Digitized by Google

Speed-transmission mechanism, Friction variable-. A. C. Keaworthy. No. 1,361,466; Dec. 7; v. 281; p. 99.
Speed-transmission mechanism, Variable-. R. G. Altvater. No. 1,337,578; Apr. 20; v. 273; p. 489.
Speeder-machines, Safety stop-motion for. W. F. Traywick. No. 1,354,070; Sept. 28; v. 278; p. 603.
Speedometer. A. F. Poole. No. 1,351,585; Aug. 31; v. 277; p. 908.
Speedometer, Electric. S. C. Winger and A. Rickenbacher. No. 1,341,958; June 1; v. 275; p. 68.
Speedometer-magnet drive. O. B. Hjorth. No. 1,335,838; Apr. 6; v. 273; p. 24.
Speedometers, Time-recording attachment for. O. Abegg and U. Kohler. No. 1,356,116; Oct. 19; v. 279; p. 421.
Spelter from galvanized articles, Machinery for removing superfluous. D. O'Neil, J. A. Holmquist, and J. W. Free. No. 1,338,152; Apr. 27; v. 273; p. 668.
Spigot, Combined hot and cold water. S. H. Scheetz. No. 1,355,915; Oct. 19; v. 279; p. 381.
Spigot or faucet, Adjustable. J. M. Keeler. No. 1,345,496; July 6; v. 276; p. 33.
Spigot-tap, Deflecting. W. E. Muntz. No. 1,345,808; July 6; v. 276; p. 98.
Spike. E. L. D. B. and J. W. B. Balfour. No. 1,352,573; Sept. 14; v. 278; p. 201.
Spike-extractor. W. S. Austin. No. 1,354,532; Oct. 5; v. 279; p. 17.
Spike-hole-plug machines, Work-holding cradle for. F. V. Carman. No. 1,328,492; Jan. 20; v. 270; p. 401.
Spike-machine. L. J. Berkeley. No. 1,345,064; June 29; v. 275; p. 921.
Spike-puller. V. A. Cobb. No. 1,329,458; Feb. 3; v. 271; p. 22.
Spike-puller. F. Fortin. No. 1,344,628; June 29; v. 275; p. 838.
Spinal deformities, Apparatus for rectifying. H. J. Rink. No. 1,347,913; July 27; v. 276; p. 689.
Spinal traction-chair. E. E. Hosmer. No. 1,356,865; Oct. 19; v. 279; p. 470.
Spindle: *See*—
Ball-bearing spindle. Tool-carrying spindle.
Spindle. D. Lemoine and G. P. Fournier. No. 1,336,467; Apr. 13; v. 273; p. 203.
Spindle. C. A. Proulx. No. 1,341,479; May 25; v. 274; p. 740.
Spindle. E. D. Robinson. No. 1,333,632; Mar. 16; v. 272; p. 388.
Spindle and casing for music-rolls, Combined. M. B. Peal. (Reissue.) No. 14,860; May 18; v. 274; p. 550.
Spindle, Ball-bearing. T. M. Prudden. No. 1,341,019; May 25; v. 274; p. 650.
Spindle, Bearing-. J. Clayton. No. 1,363,087; Dec. 21; v. 281; p. 515.
Spindle drills, Journal adjustment for arms of multiple-. E. W. Cleveland. No. 1,350,004; Aug. 17; v. 277; p. 490.
Spindle, Electrically-driven. J. Hurtig. No. 1,327,160; Jan 6; v. 270; p. 52.
Spindle-holder. O. C. Kavle. No. 1,361,160; Dec. 7; v. 281; p. 35.
Spindle-holder. H. Thomas. No. 1,345,284; June 29; v. 275; p. 964.
Spindle machine-tool, Multiple-. E. P. Bullard, Jr. No. 1,360,175; Nov. 23; v. 280; p. 733.
Spindle, Spinning-. G. H. Sheldon. No. 1,338,102; Apr. 27; v. 273; p. 659.
Spindle, Water-meter. E. M. Krueger. No. 1,328,879; Jan. 27; v. 270; p. 503.
Spindles, Device for connecting tools to. W. F. Groene. No. 1,337,313; Apr. 20; v. 273; p. 440.
Spindles, Holder for axle-. J. E. Stick and G. M. Hiatt. No. 1,332,931; Mar. 9; v. 272; p. 196.
Spine-exerciser. B. Macfadden. No. 1,336,910; Apr. 13; v. 273; p. 289.
Spinner-wrench. E. D. Rockwell. No. 1,331,082; Feb. 17; v. 271; p. 426.
Spinning and like machines, Drawing-roller for. J. M. G. Villas-Bôas. No. 1,335,208; Mar. 30; v. 272; p. 791.
Spinning and winding machines, Weft-spindle tube for. E. Egli. No. 1,333,397; Mar. 9; v. 272; p. 283.
Spinning apparatus. E. A. Watson. No. 1,350,905; Aug. 24; v. 277; p. 710.
Spinning apparatus, Ring-. W. Gibson. No. 1,333,169; Mar. 9; v. 272; p. 240.
Spinning-brake. A. T. Underwood. No. 1,338,600; Apr. 27; v. 273; p. 751.
Spinning, doubling, and twisting machinery, Apparatus for ring-. T. Whitehead. No. 1,356,844; Oct. 26; v. 279; p. 610.
Spinning-frame. A. Wey. No. 1,362,768; Dec. 21; v. 281; p. 453.
Spinning-frame control. E. D. Boles and E. A. Untersee. No. 1,358,409; Nov. 9; v. 280; p. 296.
Spinning-frame controller. F. L. Roxbrough. No. 1,358,397; Nov. 9; v. 280; p. 293.
Spinning-frame separator. S. Card. No. 1,352,657; Sept. 14; v. 278; p. 218.
Spinning-frames, Doffing mechanism for. S. Ambler. No. 1,339,803; May 11; v. 274; p. 291.
Spinning-frames, Doffing mechanism for. N. R. Newsholme. No. 1,353,414; Sept. 21; v. 278; p. 427.
Spinning-frames, Doffing mechanism for. H. C. Speight. No. 1,350,578; Aug. 24; v. 277; p. 649.
Spinning-frames, Lifting-collar for. J. T. Cothran. No. 1,353,633; Sept. 21; v. 278; p. 471.
Spinning-machine. W. C. McLoughlin. No. 1,338,577; Apr. 27; v. 273; p. 747.
Spinning-machine. G. L. Rice. No. 1,343,230; June 15; v. 275; p. 434.
Spinning machine, Metal-. F. G. Wieland. No. 1,359,554; Nov. 23; v. 280; p. 610.
Spinning-machines, Yarn-catcher for. G. Bell. No. 1,343,704; June 15; v. 275; p. 527.
Spinning-ring. C. S. Forbes. No. 1,333,072; Mar. 9; v. 272; p. 223.
Spinning-ring. C. D. White. No. 1,351,595; Aug. 31; v. 277; p. 910.
Spinning-roll. J. P. Crane. No. 1,362,603; Dec. 21; v. 281; p. 420.
Spinning, twisting, doubling, and analogous machines, Doffing-mechanism for flier. P. Smith, Jr. No. 1,351,701; Aug. 31; v. 277; p. 930.
Spiral broaching-machine. H. E. Blanchard. No. 1,335,871; Apr. 6; v. 273; p. 81.
Spiral cutter. W. van den Heuvel. No. 1,363,444; Dec. 28; v. 281; p. 623.
Spiral separator. F. Pardee. No. 1,356,464; Oct. 19; v. 275; p. 489.
Spirals, Machine for forming. C. W. Danglemeyer. No. 1,358,038; Nov. 16; v. 280; p. 446.
Spirals, Spacing-bar for. W. E. White. No. 1,361,558; Dec. 7; v. 281; p. 117.
Spit. M. Schey. No. 1,359,749; Nov. 23; v. 280; p. 649.
Splash guard, Side-. C. W. Brown. No. 1,341,008; May 25; v. 274; p. 648.
Splice-bar. W. Lee. No. 1,328,170; Jan. 13; v. 270; p. 303.
Splicing-machine. H. A. Lemay. No. 1,345,375; July 6; v. 276; p. 10.
Spline-carrying-machine elements, Method of and apparatus for making. A. J. Fisher. No. 1,333,071; Mar. 9; v. 272; p. 223.
Splint apparatus. A. B. Mulvany. No. 1,347,396; July 20; v. 276; p. 529.
Splint, Arm-abduction. R. D. Maddox. No. 1,340,630; May 18; v. 274; p. 505.
Splitting-machine. J. N. Johnson and O. C. Hanson. No. 1,358,556; Nov. 9; v. 280; p. 325.
Splitting-machine. E. W. Smith. No. 1,334,323; Mar. 23; v. 272; p. 564.
Spoke, Resilient. I. Ilieff. No. 1,341,907; June 1; v. 275; p. 58.
Spokeshave. A. P. Ritter. No. 1,332,919; Mar. 9; v. 272; p. 194.
Sponge, Tanned. W. H. Allen. No. 1,336,806; Apr. 13; v. 273; p. 269.
Spool. C. E. Ehnborn. No. 1,346,117; July 13; v. 276; p. 218.
Spool. M. R. Hutchison. No. 1,345,190; June 29; v. 275; p. 946.
Spool. B. N. Knoche. No. 1,353,761; Sept. 21; v. 278; p. 497.
Spool, E. J. Lipps. No. 1,359,081; Nov. 16; v. 280; p. 472.
Spool. A. H. Schloerb. No. 1,350,979; Aug. 24; v. 277; p. 725.
Spool and needle holder, Combined. W. T. Keckeissen. No. 1,357,874; Nov. 2; v. 280; p. 128.
Spool-case. E. T. Farmer. No. 1,333,479; Mar. 9; v. 272; p. 299.
Spool, Collapsible. E. W. Duston. No. 1,347,812; July 20; v. 276; p. 414.
Spool-holder. A. H. De Voe. No. 1,347,843; July 27; v. 276; p. 675.
Spool-holder. H. Muinonen. No. 1,333,562; Mar. 9; v. 272; p. 314.
Spool-holder. L. Palter. No. 1,363,737; Dec. 28; v. 281; p. 682.
Spool, Insulating collector or distributer. L. Steinberger. No. 1,339,988; May 11; v. 274; p. 326.
Spool-rack. N. O. Richman. No. 1,345,883; July 6; v. 276; p. 109.
Spool, Tension-. J. R. Evans and F. H. G. Brandt. No. 1,333,069; Mar. 9; v. 272; p. 222.
Spooling-machines, Tension device for. F. Jarry. No. 1,329,341; Jan. 27; v. 270; p. 588.
Spoon. M. Gluck. No. 1,329,172; Jan. 27; v. 270; p. 558.
Spoon and fork, Combination. S. Suzuki. No. 1,348,762; Aug. 3; v. 277; p. 121.
Spoon and fork combined. A. Larson. No. 1,351,045; Aug. 31; v. 277; p. 801.
Spoon and fork combined. A. Larson. No. 1,351,046; Aug. 31; v. 277; p. 801.
Spoon and fork, Combined. E. S. Whyte. No. 1,337,174; Apr. 13; v. 273; p. 339.
Spoon, Culinary. E. S. Royer. No. 1,334,169; Mar. 16; p. 272; p. 489.
Spoon or dipper, Measuring. A. E. Shutterly. No. 1,348,591; Aug. 3; v. 277; p. 90.
Spoon, Skimming-. C. F. Beaufrere. No. 1,337,814; Apr. 20; v. 273; p. 534.

Digitized by Google

Spoon, Sprinkling-. F. Graffenberger. No. 1,347,902; July 27; v. 276; p. 687.
Spoon, Trolling-. J T. Moore. No 1,353,779; Sept. 21; v. 278; p. 500.
Spot-finder. J. E. Leonard. No. 1,356,868; Oct. 26; v. 279; p. 615.
Spot-light. R. E. Sagle. No. 1,355,783; Oct 12; v. 279; p. 314.
Spot-light control. W. Mayo. No. 1,334,666; Mar. 23; v. 272; p. 628.
Spot-light-directing handle. G. W. Young. No. 1,335,146; Mar. 30; v. 272; p. 780.
Spot-light mount. C. Mee. No. 1,363,426; Dec. 28; v. 281; p. 620.
Spot-light-mounting device. W. P. Cousino. No. 1,327,945; Jan. 13; v. 270; p. 260.
Spot-lights, Universal joint for. E. H. Howard. No. 1,344,344; June 22; v. 275; p. 717.
Spotlight. S. W. Hyatt. No. 1,360,531; Nov. 30; v. 280; p. 871.
Spotter's training device. H. A. Wentworth. No. 1,352,773; Sept. 14; v. 278; p. 242.
Spout, Loading-. E. M. Hull. No. 1,358,446; Nov. 9; v. 280; p. 304.
Spout, Non-dripping. M. J. Faistl and G. A. Selig. No. 1,357,629; Nov. 2; v. 280; p. 81.
Spout, Pouring-. C. H. Nowack. No. 1,340,242; May 18; v. 274; p. 432.
Spout, Pouring-. H. L. Strongson. No. 1,355,010; Oct. 5; v. 279; p. 111.
Spout, Receptacle-. J. Youngberg. No. 1,328,704; Jan. 20; v. 270; p. 440.
Spray, Bath-. P. J. Fitzgerald. No. 1,342,994; June 8; v. 275; p. 324.
Spray, Combination bath-. J. J. Donovan. No. 1,328,650; Jan. 20; v. 270; p. 430.
Spray device, Adjustable shower-. G. H. Gregory. No. 1,327,428; Jan. 6; v. 270; p. 102.
Spray element. J H. Lakin. No. 1,362,493; Dec. 14; v. 281; p. 347.
Spray-nozzle. T. W. Murphy and W. Czarnecki. No. 1,340,136; May 11; v. 274; p. 355.
Sprayer. J. J. Holland. No. 1,331,643; Feb. 24; v. 271; p. 551.
Sprayer. O. W. Johnson and R. Milne. No. 1,345,598; July 6; v. 276; p. 53.
Sprayer, Automatic poultry-. O. E. Sundre. No. 1,342,776; June 8; v. 275; p. 281.
Sprayer, Plant-. H. F. Neumeyer. No. 1,348,038; July 27; v. 276; p. 714.
Sprayer, Powder-. S. D. Irwin. No. 1,360,642; Nov. 30; v. 280; p. 893.
Sprayers, Axle construction for. O. Knoerzer. No. 1,332,219; Mar. 2; v. 272; p. 8.
Spraying apparatus. H. Barber. No. 1,339,382; May 11; v. 274; p. 211.
Spraying apparatus. A. S. Nichols. No. 1,361,607; Dec. 7; v. 281; p. 127.
Spraying apparatus. C. D. Zipeto. No. 1,329,103; Jan. 27; v. 270; p. 545.
Spraying attachment. J. W. Burbank. No. 1,337,589; Apr. 20; v. 273; p. 492.
Spraying device. W. L. Deming and C. Cornwall. No. 1,348,631; Aug. 3; v. 277; p. 97.
Spraying device. B. L. Gifford. No. 1,361,979; Dec. 14; v. 281; p. 247.
Spraying device. P. Rasch. No. 1,347,520; July 27; v. 276; p. 610.
Spraying implement. C. Brown. No. 1,359,485; Nov. 23; v. 280; p. 596.
Spreader. G. W. Williams. No. 1,345,427; July 6; v. 276; p. 20.
Spring: *See*—

Air-spring.	Compound spring.
Auto-tire spring.	Cushion-spring.
Automobile-spring.	Door-spring.
Ball-bearing spring.	Leaf-spring.
Bed-spring.	Pawl-spring.
Berth safety-spring.	Sectional spring.
Clock-spring.	Vehicle-spring.
Coil-spring.	Wagon-seat spring.

Spring. A. N. Clough. No. 1,338,490; Apr. 27; v. 273; p. 732.
Spring. W. Krafve. No. 1,354,978; Oct. 5; v. 279; p. 106.
Spring. G. R. Nyquist. No. 1,336,314; Apr. 6; v. 273; p. 115.
Spring. T. A. Tisdell. No. 1,331,539; Feb. 24; v. 271; p. 531.
Spring-actuated supporting device. C. W. Davis and F. R. Sunderlin. No. 1,332,383; Mar. 2; v. 272; p. 41.
Spring and retarding device, Combined contractile. E. S. Coffman. No. 1,333,835; Mar. 16; v. 272; p. 426.
Spring and shock absorber. R. Ball. No. 1,336,184; Apr. 6; v. 273; p. 91.
Spring applier and remover. G. J. Charland. No. 1,342,529; June 8; v. 275; p. 232.
Spring-catch device. J. Soss. No. 1,351,072; Aug. 31; v. 277; p. 806.
Spring-coiling machine. E. C. Danner. No. 1,344,116; June 22; v. 275; p. 672.
Spring construction. G. W. Barnes and D. C. Travis. No. 1,352,574; Sept. 14; v. 278; p. 202.
Spring construction. S. G. Smith. No. 1,363,538; Dec. 28; v. 281; p. 642.
Spring construction. W. R. Smith, R. L. Wilcox, and G. A. Franz. No. 1,359,120; Nov. 16; v. 280; p. 479.
Spring construction, Antijounce-. J. J. Reynolds. No. 1,351,968; Sept. 7; v. 278; p. 51.
Spring construction, Back-. L. A. Young. No. 1,342,522; June 8; v. 275; p. 230.
Spring-controller. J. S. Hawk. No. 1,355,555; Oct. 12; v. 279; p. 271.
Spring-cushion. L. A. Young. No. 1,343,167; June 8; v. 275; p. 358.
Spring device. D. B. Davis. No. 1,349,327; Aug. 10; v. 277; p. 285.
Spring device, Contractile. L. Y. Williams. No. 1,353,881; Sept. 28; v. 278; p. 564.
Spring-die cushion. R. D. King. No. 1,351,911; Sept. 7; v. 278; p. 40.
Spring-encircled members, Machine for producing. D. Bourque. No. 1,332,539; Mar. 2; v. 272; p. 70.
Spring fabric. H. J. Willems. No. 1,339,802; May 11; v. 274; p. 291.
Spring-forming machines, Die for. L. F. Elkins. No. 1,331,630; Feb. 24; v. 271; p. 548.
Spring-gripping device. H. Bishop. No. 1,339,843; May 11; v. 274; p. 299.
Spring-hook. E. Pilon. No. 1,328,193; Jan. 13; v. 270; p. 307.
Spring-hub. A. S. Middleton. No. 1,348,437; Aug. 3; v. 277; p. 60.
Spring-leaf spreader. H. H. Struve. No. 1,338,111; Apr. 27; v. 273; p. 660.
Spring-leaf spreader. F. W. Volz. No. 1,338,539; Apr. 27; v. 273; p. 740.
Spring-leaf spreader and lubricator. L. E. Wood. No. 1,351,272; Aug. 31; v. 277; p. 845.
Spring-lubricating device. A. A. Share. No. 1,361,914; Dec. 14; v. 281; p. 239.
Spring-lubricator. M. Jarmie. No. 1,342,172; June 1; v. 275; p. 110.
Spring mechanism for vibrating rectifiers. A. L. Atherton. No. 1,355,524; Oct. 12; v. 279; p. 265.
Spring-motor. H. G. Allen. No. 1,351,727; Sept. 7; v. 278; p. 3.
Spring-motor. O. E. Boas. No. 1,337,385; Apr. 20; v. 273; p. 453.
Spring-motor. J. B. Browning. No. 1,345,122; June 29; v. 275; p. 933.
Spring-motor. W. J. Dickinson. No. 1,362,489; Dec. 14; v. 281; p. 344.
Spring-motor. C. Schiffl. No. 1,328,402; Jan. 20; v. 270; p. 384.
Spring-motor. M. E. A. Tucker. No. 1,347,603; July 27; v. 276; p. 627.
Spring-motor construction. A. Roemer. No. 1,363,484; Dec. 28; v. 281; p. 631.
Spring-motor mechanism. F. Magidson. No. 1,342,857; June 8; v. 275; p. 297.
Spring-operated mechanism. C. E. Anderson. No. 1,340,000; May 11; v. 274; p. 329.
Spring-plank, Interlocking. H. W. Wolff. No. 1,336,458; Apr. 13; v. 273; p. 202.
Spring-plug. G. Hadrich. No. 1,345,765; July 6; v. 276; p. 86.
Spring-pressure-regulating device. W. A. Van Brunt. No. 1,340,581; May 18; v. 274; p. 496.
Spring-retainer. W. B. Thompson. No. 1,333,353; Mar. 9; v. 272; p. 275.
Spring-retainer. A. Vasselli. No. 1,350,754; Aug. 24; v. 277; p. 683.
Spring-ring. F. A. Ballou, Jr. No. 1,340,206; May 18; v. 274; p. 425.
Spring saddle and shock-absorber. C. M. Mohler. No. 1,339,779; May 11; v. 274; p. 287.
Spring-seat. H. E. Gynn. No. 1,355,225; Oct. 12; v. 279; p. 207.
Spring-seat. O. E. Hershey. No. 1,341,555; May 25; v. 274; p. 754.
Spring-seat. L. M. Reed. No. 1,355,263; Oct. 12; v. 279; p. 215.
Spring-seat. L. M. Reed. No. 1,359,528; Nov. 23; v. 280; p. 605.
Spring-seat construction. J. W. Fitz Gerald. No. 1,330,938; Feb. 17; v. 271; p. 39.
Spring-spoke wheel. A. F. Kelly. No. 1,328,244; Jan. 18; v. 270; p. 317.
Spring structure. H. Freedman. No. 1,351,748; Sept. 7; v. 278; p. 7.
Spring structure. O. R. Hunt. No. 1,343,565; June 15; v. 275; p. 499.
Spring structure. O. R. Hunt. No. 1,345,780; July 6; v. 276; p. 89.
Spring structure. A. F. Lance. No. 1,352,612; Sept. 14; v. 278; p. 209.
Spring structures, Clip for. H. E. Edwards. No. 1,355,133; Oct. 12; v. 279; p. 188.
Spring-supporting means, Release-. A. H. Peycke. No. 1,335,184; Mar. 30; v. 272; p. 787.
Spring suspension. A. A. Hanke. No. 1,331,810; Feb. 24; v. 271; p. 582.
Spring suspension. R. Paradiso. No. 1,331,357; Feb. 17; v. 271; p. 476.

Digitized by Google

Spring suspension. G. E. Rigby. No. 1,327,063; Jan. 6; v. 270; p. 35.
Spring-trap. C. Schroeder. No. 1,339,481; May 11; v. 274; p. 230.
Spring-wheel. W. A. Burger and W. Gross. No. 1,344,483; June 22; v. 275; p. 745.
Spring-wheel. G. Cartasso. No. 1,344,579; June 22; v. 275; p. 764.
Spring-wheel. W. Gebhardt. No. 1,336,081; Apr. 6; v. 273; p. 62.
Spring-wheel. J. W. Gunther. No. 1,361,984; Dec. 14; v. 281; p. 248.
Spring-wheel. C. E. Harmon. No. 1,332,871; Mar. 2; v. 272; p. 132.
Spring-wheel. H. M. Horne. No. 1,349,339; Aug. 10; v. 277; p. 287.
Spring-wheel. W. Leviston and J. Perry. No. 1,350,370; Aug. 24; v. 277; p. 607.
Spring-wheel. M. Levy. No. 1,339,361; May 4; v. 274; p. 131.
Spring-wheel. W. H. Metz. No. 1,331,716; Feb. 24; v. 271; p. 564.
Spring-wheel. J. H. Mullin. No. 1,359,825; Nov. 23; v. 280; p. 664.
Spring-wheel. H. L. Newton. No. 1,362,891; Dec. 21; v. 281; p. 476.
Spring-wheel. T. N. Petrovic. No. 1,339,132; May 4; v. 274; p. 91.
Spring-wheel. T. Rozankovich. No. 1,345,250; June 29; v. 275; p. 957.
Spring-wheel. D. J. Shea. No. 1,348,590; Aug. 3; v. 277; p. 89.
Spring-wheel. G. W. and T. B. Shropshire. No. 1,337,569; Apr. 20; v. 273; p. 488.
Spring-wheel. J. E. Strietelmeier. No. 1,348,834; Aug. 3; v. 277; p. 185.
Spring-wheel. G. B. Timberlake. No. 1,349,019; Aug. 10; v. 277; p. 224.
Spring-wheel. G. E. Wason. No. 1,330,504; Feb. 10; v 271; p. 248.
Spring-wheel. H. Wileman. No. 1,344,012; June 22; v. 275; p. 653.
Springs, Apparatus for making. H. Ohlau. No. 1,363,808; Dec. 28; v. 281; p. 694.
Springs, Automatic winding mechanism for. C. H. Gill. No. 1,332,870; Mar. 2; v. 272; p. 132.
Springs, Clip-fastener for. F. Meads. No. 1,351,213; Aug. 31; v. 277; p. 833.
Springs, Device for arching and fitting semi elliptic. J. I. Roberts. No. 1,353,272; Sept. 21; v. 278; p. 399.
Springs, Device to prevent over-winding. J. J. Shively. No. 1,355,703; Oct. 12; v. 279; p. 299.
Springs in fastener members, Assembling. A. J. Lewis. No. 1,357,172; Oct. 26; v. 279; p. 674.
Springs in fastener members, Assembling. A. J. Lewis. No. 1,357,173; Oct. 26; v. 279; p. 674.
Springs in fastener members, Assembling. A. J. Lewis. No. 1,357,174; Oct. 26; v. 279; p. 674.
Springs in fastener members, Assembling. A. J. Lewis. No. 1,357,175; Oct. 26; v. 279; p. 674.
Springs in fastener members, Assembling. A. J. Lewis. No. 1,357,176; Oct. 26; v. 279; p. 674.
Springs, Lubricating device for leaf-. J. M. E. Franc. No. 1,350,217; Aug. 17; p. 531.
Springs, Lubricating means for leaf-. H. Rigby. No. 1,352,314; Sept. 7; v. 278; p. 116.
Springs, Machine for making coil-. A. M. Parker. No. 1,327,728; Jan. 13; v. 270; p. 220.
Springs, Manufacturing shock-absorber. N. Schachter. No. 1,331,677; Feb. 24; v. 271; p. 557.
Springs, Mechanism for forming and assembling snap-fastener. A. J. Lewis. No. 1,351,429; Aug. 31; v. 277; p. 877.
Springs, Method and apparatus for wiring coil-. F. M. Stevens. No. 1,351,448; Aug. 31; v. 277; p. 881.
Springs, Yoke construction for leaf-. E. M. Harberson. No. 1,353,746; Sept. 21; v. 278; p. 494.
Sprinkler: *See*—
Automatic sprinkler.
Clothes-sprinkler.
Garden-sprinkler.
Half-spray sprinkler.
Lawn-sprinkler.
Sprinkler. J. G. and H. W. Ambrose. No. 1,335,267; Mar. 30; v. 272; p. 802.
Sprinkler. A. E. Gruenberg. No. 1,331,255; Feb. 17; v. 271; p. 457.
Sprinkler. R. W. Johnson and J. Bloom. No. 1,336,699; Apr. 13; v. 273; p. 248.
Sprinkler. R. W. Newton. No. 1,345,217; June 29; v. 275; p. 951.
Sprinkler - cap, Elastic. T. L. Hollingsworth. No. 1,355,973; Oct. 19; v. 279; p. 392.
Sprinkler-head. J. T. Delaney. No. 1,362,286; Dec. 14; v. 281; p. 298.
Sprinkler-head housing. G. C. Ramsey. No. 1,331,277; Feb. 17; v. 271; p. 461.
Sprinkler system. H. Z. Landon. No. 1,359,511; Nov. 23; v. 280; p. 602.
Sprinkler systems, Dry-pipe valve for. E. G. Harris. No. 1,343,776; June 15; v. 275; p. 541.
Sprocket, Interchangeable. E. B. Grace. No. 1,360,930; Nov. 30; v. 280; p. 948.
Sprue, Adjustable. C. H. Schmidt. No. 1,361,188; Dec. 7; v. 281; p. 41.
Spud-machine. C. W. Forker. No. 1,362,409; Dec. 14; v. 281; p. 331.
Spur. L. V. Calderón. No. 1,351,619; Aug. 31; v. 277; p. 914.
Sputum-box. H. H. Colestock. No. 1,344,442; June 22; v. 275; p. 737.
Square, Adjustable set-. J. Westwood. No. 1,342,780; June 8; v. 275; p. 271.
Square and bevel structure. F. C. Niebling. No. 1,349,087; Aug. 10; v. 277; p. 237.
Square, Carpenter's. O. J. Olsen. No. 1,333,128; Mar. 9; v. 272; p. 233.
Square, Extension angle-. W. H. Eggleston. No. 1,329,337; Jan. 27; v. 270; p. 587.
Square, Foldable. S. O. Thorell. No. 1,340,125; May 11; v. 274; p. 353.
Square, Line-. J. A. Carlson. No. 1,327,198; Jan. 6; v. 270; p. 60.
Square, Mechanic's. W. M. Slavik. No. 1,359,758; Nov. 23; v. 280; p. 651.
Square, Precision-. E. J. Bryant. No. 1,355,808; Oct. 19; v. 279; p. 360.
Squares, Spacing attachment for T-. R. Raby. No. 1,359,743; Nov. 23; v. 280; p. 647.
Squaring-clamp, Heavy. O. Bergstrom. No. 1,335,721; Apr. 6; v. 273; p. 4.
Squaring instrument. J. D. McCallum. No. 1,358,009; Nov. 9; v. 280; p. 216.
Squaring-up machine with electric motor. J. Jesperson and A. Jakobsen. No. 1,331,992; Feb. 24; v. 271; p. 617.
Squeegee. J. H. Menkhaus. No. 1,351,862; Sept. 7; v. 278; p. 30.
Squeezer. S. E. Creasey. No. 1,341,496; May 25; v. 274; p. 743.
Squirrel-cage winding construction. N. Wilkinson. No. 1,351,270; Aug. 31; v. 277; p. 844.
Stabilizer. G. W. Dunham. No. 1,327,811; Jan. 13; v. 270; p. 286.
Stabilizer. A. J. Macy. No. 1,327,055; Jan. 6; v. 270; p. 33.
Stabilizing device. F. D. Blessmeyer. No. 1,327,586; Jan. 6; v. 270; p. 182.
Stable-cleaner. C. E. Johnson. No. 1,334,458; Mar. 23; v. 272; p. 589.
Stable-cleaning means. E. W. Bascom. No. 1,339,089. May 4; v. 274; p. 82.
Stack-mold. O. E. Clevenger. No. 1,330,685; Feb. 10; v. 271; p. 281.
Stacker. G. Wettlaufer. No. 1,355,632; Oct. 12; v. 279; p. 285.
Stacker, Wheat-. H. F. Von Engeln. No. 1,336,005; Apr. 6; v. 273; p. 57.
Stacking mechanism. F. V. Hart. No. 1,344,034; June 22; v. 275; p. 657.
Stacking-pin. E. W. Collins. No. 1,343,351; June 15; v. 275; p. 457.
Staffs, spindles, and the like, Device for inserting and adjusting bearings for. J. L. Axen. No. 1,342,840; June 8; v. 275; p. 294.
Stage apparatus. C. J. Tritschler. No. 1,332,085; Feb. 24; v. 271; p. 634.
Stage appliance. G. P. Smith. No. 1,330,452; Feb. 10; v. 271; p. 238.
Stage illusion effect. F. J. Oebbecke. No. 1,339,279; May 4; v. 274; p. 116.
Staging. F. C. Milton. No. 1,339,661; May 11; v. 274; p. 265.
Stair-rule. G. F. Thielman. No. 1,349,348; Aug. 10; v. 277; p. 290.
Stair structure. N. Bois. No. 1,353,377; Sept. 21; v. 278; p. 420.
Stair structure. J. T. Nesdall. No. 1,343,789; June 15; v. 275; p. 534.
Stair-tread. C. E. Oliver. No. 1,340,243; May 18; v. 274; p. 432.
Stairs, Protective pad for. N. C. Parker. No. 1,344,310; June 22; v. 275; p. 711.
Stairway, Disappearing. T. N. Badger and W. G. Smith. No. 1,344,371; June 22; v. 275; p. 723.
Stairway-elevator. G. H. Davis. No. 1,358,062; Nov. 9; v. 280; p. 226.
Stairway, Spiral. A. L. Smith. No. 1,361,918; Dec. 14; v. 281; p. 235.
Stake-holder. C. C. Bergstrom. No. 1,353,624; Sept. 21; v. 278; p. 470.
Stake-holder. C. E. Flinchbaugh. No. 1,361,706; Dec. 7; v. 281; p. 146.
Stake-holder. C. O. Torgerson. No. 1,342,654; June 8; v. 275; p. 255.
Stake, Pocket-. J. Hayes. No. 1,344,393; June 22; v. 275; p. 727.
Stake-rack iron. J. Erret. No. 1,331,144; Feb. 17; v. 271; p. 437.
Stake-socket. J. Erret. No. 1,333,396; Mar. 9; v. 272; p. 283.
Stalk-chopper. A. J. Barts. No. 1,329,220; Jan. 27; v. 270; p. 566.
Stalk-cutter attachment. A. E. Wylie. No. 1,329,154; Jan. 27; v. 270; p. 554.

Digitized by Google

Alphabetical list of inventions—Continued.

Stalk-raiser. H. J. Hahn. No. 1,344,761; June 29; v. 275; p. 885.
Stall, Adjustable cattle-. S. L. Hanson. No. 1,327,386; Jan. 6; v. 270; p. 94.
Stall, Adjustable cattle-. G. A. and W. J. Plinske and W. C. Ebert. No. 1,355,845; Oct. 19; v. 279; p. 367.
Stall construction. H. L. Ferris. No. 1,347,941; July 27; v. 276; p. 694.
Stall-frame support. R. F. Rasmussen. No. 1,362,352; Dec. 14; v. 281; p. 320.
Stammering, Device for the prevention of. F. J. Rogers. No. 1,327,407; Jan. 6; v. 270; p. 98.
Stamp-affixers, Liquid-dispensing apparatus for. W. J. Balkwill. No. 1,356,253; Oct. 19; v. 279; p. 448.
Stamp-affixing machine. H. H. Daniels. No. 1,346,484; July 13; v. 276; p. 290.
Stamp-affixing machine. W. J. Davis. No. 1,338,978; May 4; v. 274; p. 60.
Stamp-affixing machine. C. Lindström. No. 1,329,090; Jan. 27; v. 270; p. 542.
Stamp and pen rack, Combination rubber-. L. B. Lindquist. No. 1,338,184; Apr. 27; v. 273; p. 674.
Stamp attachment, Dating-. F. W. Davis. No. 1,361,145; Dec. 7; v. 281; p. 32.
Stamp attachment, Rubber-. F. E. Frost. No. 1,344,079; June 22; v. 275; p. 665.
Stamp-canceler and fountain-brush. J. S. Brits. No. 1,328,031; Jan. 13; v. 270; p. 276.
Stamp, Combined clock and time-. S. Agranat. No. 1,338,413; Apr. 27; v. 273; p. 717.
Stamp, Dating-. F. M. Shafer. No. 1,340,122; May 11; v. 274; p. 352.
Stamp, Hand-. H. S. Folger and J. C. Julien. No. 1,330,251; Feb. 10; v. 271; p. 201.
Stamp-handling mechanism. R. P. Smith. No. 1,332,578; Mar. 2; v. 272; p. 77.
Stamp lock, Dating-. A. Miller. No. 1,352,300; Sept. 7; v. 278; p. 113.
Stamp-mill. J. W. Vanmeter. No. 1,353,096; Sept. 14; v. 278; p. 305.
Stamp-mill, Ore. J. W. Vanmeter. No. 1,353,097; Sept. 14; v. 278; p. 305.
Stamp-moistener. C. M. Pratt. No. 1,342,824; June 8; v. 275; p. 291.
Stamp-mount. H. S. Folger. No. 1,347,152; July 20; v. 276; p. 480.
Stamp, Numbering-. A. Marks. No. 1,335,746; Apr. 6; v. 273; p. 8.
Stamp or label affixer. W. F. Schweiger and W. J. Balkwill. No. 1,326,978; Jan. 6; v. 270; p. 19.
Stamp-pad. M. Russo. No. 1,363,017; Dec. 21; v. 281; p. 501.
Stamp-rack. W. H. Niemeyer. No. 1,361,535; Dec. 7; v. 281; p. 113.
Stamp-rack. W. H. Niemeyer. No. 1,361,536; Dec. 7; v. 281; p. 113.
Stamp-rack. W. H. Niemeyer. No. 1,361,537; Dec. 7; v. 281; p. 113.
Stamp-rack. W. H. Niemeyer. No. 1,361,538; Dec. 7; v. 281; p. 113.
Stamp-rack. W. H. Niemeyer. No. 1,361,539; Dec. 7; v. 281; p. 114.
Stamp-rack. W. H. Niemeyer. No. 1,361,540; Dec. 7; v. 281; p. 114.
Stamp, Rubber. F. Pitman. No. 1,346,912; July 20; v. 276; p. 434.
Stamp, Self-inking. H. S. Folger and T. Ross. No. 1,353,994; Sept. 28; v. 278; p. 586.
Stamp, Self-inking. M. Rumpf and W. E. Nimz. No. 1,356,172; Oct. 19; v. 279; p. 432.
Stamp, Stencil-. L. K. Jordan. No. 1,355,047; Oct. 5; v. 279; p. 119.
Stamp, Time-. L. J. Melind. No. 1,355,989; Oct. 19; v. 279; p. 395.
Stamp, Time-. M. Sheras. No. 1,332,959; Mar. 9; v. 272; p. 202.
Stamp, Time-. M. Sheras. No. 1,332,960; Mar. 9; v. 272; p. 202.
Stamps, Band-wheel for hand-. J. Lang. No. 1,362,329; Dec. 14; v. 281; p. 316.
Stamps, labels, or sealing-strips to containers, Machine for applying. G. W. Gwinn. No. 1,343,264; June 15; v. 275; p. 440.
Stamps, Making rubber-type. J. Ellis. No. 1,332,169; Feb. 24; v. 271; p. 649.
Stamping device. J. B. Hackendahl. No. 1,333,487; Mar. 9; v. 272; p. 300.
Stamping device. S. W. Renick. No. 1,335,393; Mar. 30; v. 272; p. 826.
Stamping device, Hand. E. G. Clark. No. 1,337,591; Apr. 20; v. 273; p. 492.
Stamping-machine. J. L. Jacobs. No. 1,360,220; Nov. 23; v. 280; p. 742.
Stamping-machine. H. Lasko. No. 1,354,408; Sept. 28; v. 278; p. 671.
Stamping-machine. B. S. Lee. No. 1,327,050; Jan. 6; v. 270; p. 33.
Stamping-machine. F. B. Wischhusen. No. 1,339,050; May 4; v. 274; p. 75.
Stamping-press. Z. P. Candee. No. 1,354,377; Sept. 28; v. 278; p. 665.
Stanchion. J. A. Bullock. No. 1,330,166; Feb. 10; v. 271; p. 185.
Stanchion. J. B. Clay. No 1,355,558; Oct. 12; v. 279; p. 268.
Stanchion. W. Mitchell. No. 1,335,178; Mar. 30; v. 272; p. 786.
Stanchion-alinement device. F. H. Bogda. No. 1,359,224; Nov. 16; v. 280; p. 499.
Stanchion-alinement device. R. F. Rasmussen. No. 1,344,651; June 29; v. 275; p. 843.
Stanchion, Animal-. J. M. B. Lewis. No. 1,329,417; Feb. 3; v. 271; p. 14.
Stanchion, Animal-. J. M. B. Lewis. No. 1,337,925; Apr. 20; v. 273; p. 556.
Stanchion, Animal-. J. M. B. Lewis. No. 1,337,927; Apr. 20; v. 273; p. 556.
Stanchion, Cattle-. N. Logan. No. 1,336,975; Apr. 13; v. 273; p. 301.
Stanchion, Cow-. R. W. Walter. No. 1,350,480; Aug. 24; v. 277; p. 629.
Stanchion-fastener and shock-absorber. C. M. Stevenson. No. 1,350,679; Aug. 24; v. 277; p. 668.
Stanchion-support. J. M. B. Lewis. No. 1,341,989; June 1; v. 275; p. 74.
Stanchions, Supporting and alining means for. H. C. Rassmann. No. 1,327,735; Jan. 13; v. 270; p. 221.
Stand: *See*—

Adjustable stand.	Motorcycle-stand.
Air-hose stand.	Plant-stand.
Article-stand.	Portable stand.
Axle-stand.	Posting-stand.
Bed-stand.	Radiator-stand.
Bicycle-stand.	Railway-switch stand.
Boiler-stand.	Rear-axle stand.
Bur-stand.	Rim-holding stand.
Cake-box stand.	Sewing-machine power-stand.
Clothes and hat stand.	
Collapsible stand.	Shoe-blacking stand.
Display-stand.	Shoe-shining stand.
Drill-stand.	Skate-sharpening stand.
Electric-candle stand.	Switch-stand.
Electric-iron stand.	Truing-stand.
Engine-stand.	Watch-stand.
Flower-stand.	Wheel-truing stand.
Jack-stand.	Work-stand.
Motor-repair stand.	

Stand. N. De Long. No. 1,335,726; Apr. 6; v. 273; p. 4.
Stand. E. H. Kelley and G. A. Stewart, Jr. No. 1,347,687; July 27; v. 276; p. 633.
Stand. E. F. Philbrook, Jr. No. 1,343,229; June 15; v. 275; p. 434.
Staple and nail puller. C. Schroeder. No. 1,355,275; Oct. 12; v. 279; p. 217.
Stand and pedestal, Combined umbrella-. H. C. Stahl. No. 1,336,321; Apr. 6; v. 273; p. 116.
Stand for rolled material, Delivery-. S. M. Langston. No. 1,339,460; May 11; v. 274 p.. 226.
Stand or support. C. W. Greene. No. 1,338,487; Apr. 27; v. 273; p. 721.
Standard and heel knife, Adjustable. R. S. Davis. No. 1,347,257; July 20; v. 276; p. 502.
Standard-lock. J. W. Roberts. No. 1,351,402; Aug. 31; v. 277; p. 872.
Standpipe. H. E. Thompson. No. 1,328,857; Jan. 27; v. 270; p. 498.
Standpipe. H. E. Thompson, R. B. Linsley, and M. H. Rix. No. 1,338,846; May 4; v. 274; p. 86.
Standpipe. H. E. Thompson and P. L. Bunn. No. 1,342,516; June 8; v. 275; p. 229.
Staple-extractor. C. G. Wright. No. 1,359,777; Nov. 23; v. 280; p. 654.
Staple, Hasp-. H. Blye. No. 1,327,694; Jan. 13; v. 270; p. 214.
Staple-setter. F. C. Suchy. No. 1,343,289; June 15; v. 275; p. 445.
Staples, and particularly for attaching buttons to articles, Machine for attaching. A. J. Matter. No. 1,336,786; Apr. 13; v. 273; p. 265.
Stapling-machine. C. Lea. No. 1,356,927; Oct. 26; v. 279; p. 627.
Stapling-machine. E. H. Michener. No. 1,363,744; Dec. 28; v. 281; p. 682.
Stapling-machines, Cutting-blade for. H. B. Walter. No. 1,342,240; June 1; v. 275; p. 124.
Stapling-machines, Driving and clenching device for. H. B. Walter. No. 1,357,584; Nov. 2; v. 280; p. 68.
Stapling-machines, Feeding mechanism for. J. C. Dozier. No. 1,348,161; Aug. 3; v. 277; p. 6.
Starter. T. E. Collins. No. 1,344,291; June 22; v. 275; p. 707.
Starter. F. H. Walker. No. 1,355,630; Oct. 12; v. 279; p. 285.
Starter-coupling. S. C. McKeown. No. 1,360,963; Nov. 30; v. 280; p. 955.
Starter, Mechanical. T. C. Christie. No. 1,327,942; Jan. 13; v. 270; p. 259.
Starter, Safety-. A. E. Detzel. No. 1,331,697; Feb. 24; v. 271; p. 560.
Starting and generating system. T. R. Du Bois. No. 1,363,236; Dec. 28; v. 281; p. 584.
Starting and generating system. W. A. Turbayne. No. 1,342,409; June 1; v. 275; p. 155.

Digitized by Google

Starting and ignition system. O. E. Huebner. No. 1,361,259; Dec. 7; v. 281; p. 55.
Starting and ignition system, Electrical. J. K. Delano, Jr. No. 1,330,520; Feb. 10; v. 271; p. 251.
Starting and lighting system. T. S. Du Bois. No. 1,363,237; Dec. 28; v. 281; p. 584.
Starting and reversing mechanism. A. Peter. No. 1,334,550; Mar. 23; v. 272; p. 607.
Starting appliance. F. Richard. No. 1,331,168; Feb. 17; v. 271; p. 441.
Starting device. D. A. Shook. No. 1,333,998; Mar. 16; v. 272; p. 457.
Starting, generating, and ignition apparatus. W. B. Moses. No. 1,333,331; Mar. 9; v. 272; p. 271.
Station-indicator. J. L. Gore. No. 1,342,288; June 1; v. 275; p. 131.
Station-indicator. F. Hegybeli. No. 1,357,558; Nov. 2; v. 280; p. 67.
Station-indicator. J. J. Kovach. No. 1,349,160; Aug. 10; v. 277; p. 252.
Station-indicator. L. Keeling. No. 1,331,773; Feb. 24; v. 271; p. 575.
Station-indicator. W. C. Knox. No. 1,336,035; Apr. 6; v. 273; p. 63.
Station-indicator. M. M. Koval. No. 1,351,523; Aug. 31; v. 277; p. 895.
Station-indicator. R. G. Poole. No. 1,358,878; Nov. 16; v. 280; p. 433.
Station-indicator. H. A. Smith. No. 1,326,980; Jan. 6; v. 270; p. 19.
Station-indicator and advertising device. J. A. Greer. No. 1,336,032; Apr. 6; v. 273; p. 62.
Stationery. A. Calcano. No. 1,359,326; Nov. 16; v. 280; p. 520.
Stationery appliance. E. P. Beckwith. No. 1,339,155; May 4; v. 274; p. 94.
Stationary jack. W. J. E. Damker. No. 1,336,620; Apr. 13; v. 273; p. 233.
Stave. F. O. Evans. No. 1,356,347; Oct. 19; v. 279; p. 467.
Stave. F. O. Evans. No. 1,356,348; Oct. 19; v. 279; p. 467.
Stay-securing device. M. A. Lillibridge. No. 1,348,021; July 27; v. 276; p. 710.
Staybolt. J. R. Flannery and E. I. Dodds. No. 1,342,162; June 1; v. 275; p. 108.
Staybolt. R. J. McKay. No. 1,328,582; Jan. 20; v. 270; p. 409.
Staybolt. R. S. Mennie. (Reissue.) No. 14,796; Jan. 27; v. 270; p. 590.
Staybolt. R. S. Mennie. No. 1,359,819; Nov. 23; v. 280; p. 663.
Staybolt and other machines, Chuck for. J. A. Eden. No. 1,361,571; Dec. 7; v. 281; p. 120.
Staybolt-machine. J. A. Eden, Jr. No. 1,342,534; June 8; v. 275; p. 233.
Staybolt-sleeves, Drift for. R. Anderson. No. 1,330,673; Feb. 10; v. 271; p. 279.
Staybolt structure. E. I. Dodds. No. 1,349,822; Aug. 17; v. 277; p. 454.
Staybolt structure. E. I. Dodds. No. 1,354,600; Oct. 5; v. 279; p. 31.
Staybolt structure. E. I. Dodds. No. 1,354,601; Oct. 5; v. 279; p. 31.
Staybolt structure. E. I. Dodds. No. 1,354,602; Oct. 5; v. 279; p. 31.
Staybolt structure. J. R. Flannery. No. 1,354,611; Oct. 5; v. 279; p. 33.
Staybolt structure. J. R. Flannery and E. I. Dodds. No. 1,346,645; July 13; v. 276; p. 322.
Staybolt structure. J. R. Flannery and E. I. Dodds. No. 1,347,539; July 27; v. 276; p. 614.
Staybolt structure. J. R. Flannery and E. I. Dodds. No. 1,354,610; Oct. 5; v. 279; p. 33.
Staybolt structure. J. R. Flannery and E. I. Dodds. No. 1,354,612; Oct. 5; v. 279; p. 33.
Staybolt structure. R. S. Mennie. No. 1,354,620; Oct. 5; v. 279; p. 35.
Staybolt structure. B. E. D. Stafford and E. I. Dodds. No. 1,347,560; July 27; v. 276; p. 618.
Staybolt structure. B. E. D. Stafford and E. I. Dodds. No. 1,354,629; Oct. 5; v. 279; p. 37.
Staybolt structure. B. E. D. Stafford and E. I. Dodds. No. 1,359,627; Nov. 23; v. 280; p. 624.
Staybolt structure. B. E. D. Stafford and E. I. Dodds. No. 1,359,628; Nov. 23; v. 280; p. 624.
Staybolts, Forming hollow. J. A. Frauenheim. No. 1,331,147; Feb. 17; v. 271; p. 487.
Staybolts, Machine for making. J. A. Eden, Jr. No. 1,342,536; June 8; v. 275; p. 233.
Steam-accumulator. J. K. Ruths. No. 1,328,593; Jan. 20; v. 270; p. 420.
Steam and gas drier. C. C. Thomas. No. 1,359,547; Nov. 23; v. 280; p. 609.
Steam and hot-water furnace. J. A. Waddell, Jr. No. 1,356,028; Oct. 19; v. 279; p. 403.
Steam and oil separator. W. L. Wright. No. 1,360,349; Nov. 30; v. 280; p. 835.
Steam and oil, Separator for. O. E. Oleson. No. 1,328,889; Jan. 27; v. 270; p. 505.
Steam, Apparatus for purifying and drying. J. M. Pradairol. No. 1,335,602; Mar. 30; v. 272; p. 864.
Steam, Apparatus for regulating the temperature of superheated. B. Broido. No. 1,351,465; Aug. 31; v. 277; p. 884.
Steam, Apparatus for utilising exhaust-. E. G. Abbey.
Steam-boiler. J. P. Badenhausen. No. 1,351,324; Aug. 31; v. 277; p. 856.
Steam-boiler. F. V. Balster. No. 1,327,188; Jan. 6; v. 270; p. 58.
Steam-boiler. L. F. Hoffman and W. J. Unkel. No. 1,327,159; Jan. 6; v. 270; p. 52.
Steam-boiler. E. Kidwell. No. 1,348,179; Aug. 3; v. 277; p. 9.
Steam-boiler. E. R. Morrison. (Reissue.) No. 14,859; May 18; v. 274; p. 550.
Steam-boiler. J. Pierce, Jr. No. 1,345,231; June 29; v. 275; p. 953.
Steam-boiler. W. F. Schanzlin. No. 1,360,030; Nov. 23; v. 280; p. 705.
Steam-boiler. F. O. Stanley. No. 1,342,606; June 8; v. 275; p. 247.
Steam-boiler. M. J. Trumble. No. 1,361,931; Dec. 14; v. 281; p. 237.
Steam-boiler. E. H. Vincent. No. 1,351,500; Aug. 31; v. 277; p. 890.
Steam-boiler ash-pan. J. N. Ralston. No. 1,348,737; Aug. 3; v. 277; p. 117.
Steam-boiler furnace. R. G. Seaman. No. 1,346,769; July 13; v. 276; p. 347.
Steam boiler, Superheated-. E. R. Fish. No. 1,350,597; Aug. 24; v. 277; p. 653.
Steam chest and valve, Interchangeable. C. H. Schlundt. No. 1,349,787; Aug. 17; v. 277; p. 448.
Steam-condenser. A. E. L. Scanes. No. 1,358,022; Nov. 9; v. 280; p. 218.
Steam-condenser apparatus. A. E. L. Scanes. No. 1,353,855; Sept. 28; v. 278; p. 559.
Steam-condensers, Apparatus for discharging aerated vapor from. D. B. Morison. No. 1,359,907; Nov. 23; v. 280; p. 680.
Steam-ejector. M. Delaporte. No. 1,328,270; Jan. 20; v. 270; p. 358.
Steam-engine. W. T. Bell and F. J. Bretherton. No. 1,356,424; Oct. 19; v. 279; p. 481.
Steam-engine. D. C. Conkling. No. 1,345,319; June 29; v. 275; p. 971.
Steam-engine. H. W. May. No. 1,334,665; Mar. 23; v. 272; p. 628.
Steam-engine. L. Skinner. No. 1,339,630; May 11; v. 274; p. 259.
Steam-engine. H. A. Stringfellow and E. W. Templin. No. 1,350,625; Aug. 24; v. 277; p. 657.
Steam-engine. F. L. O. Wadsworth. No. 1,348,256; Aug. 3; v. 277; p. 25.
Steam-engine gland. W. T. Bell and F. J. Bretherton. No. 1,361,669; Dec. 7; v. 281; p. 138.
Steam-engine, Uniflow. C. Wainwright. No. 1,348,672; Aug. 3; v. 277; p. 105.
Steam-engines, Valve mechanism ror. E. E. Bashaw and N. M. Nelson. No. 1,363,554; Dec. 28; v. 281; p. 646.
Steam-expansion engine. V. B. Harley-Mason. No. 1,343,449; June 15; v. 275; p. 476.
Steam-generating plant. E. Connelley. No. 1,331,240; Feb. 17; v. 271; p. 454.
Steam-generator. L. E. Connelly. No. 1,333,653; Mar. 16; v. 272; p. 393.
Steam-generator. R. B. Manning and L. R. Moore. No. 1,350,554; Aug. 24; v. 277; p. 643.
Steam-generator. J. F. Otis. No. 1,355,686; Oct. 12; v. 279; p. 296.
Steam-generator. J. F. Otis. No. 1,355,687; Oct. 12; v. 279; p. 296.
Steam-generator. M. J. Trumble. No. 1,356,098; Oct. 19; v. 279; p. 417.
Steam generator and engine, Combined. W. I. Hoover. No. 1,361,330; Dec. 7; v. 281; p. 70.
Steam-generator fitted with superheater. J. H. Hume. No. 1,337,653; Apr. 20; v. 273; p. 503.
Steam-generator, Solar. A. V. Folsom. No. 1,345,758; July 6; v. 276; p. 84.
Steam-generators, Feed-water-supply apparatus for. T. Clarkson. No. 1,350,988; Aug. 24; v. 277; p. 726.
Steam-generators, Water-level alarm for. H. W. Spencer and R. Clark. No. 1,338,197; Apr. 27; v. 278; p. 676. No. 1,335,414; Mar. 30; v. 272; p. 880.
Steam production. C. M. Wilcox. No. 1,350,350; Aug. 24; v. 277; p. 603.
Steam rotary motor, Annular. L. Adams. No. 1,345,526; July 6; v. 276; p. 39.
Steam-separator. J. J. Nelis. No. 1,351,433; Aug. 31; v. 277; p. 878.
Steam-separator. H. H. Tracy. No. 1,336,870; Apr. 13; v. 273; p. 281.
Steam-superheater. P. S. Kirke. No. 1,335,974; Apr. 6; v. 273; p. 51.
Steam-trap. J. F. Brightman. No. 1,327,989; Jan. 13; v. 270; p. 259.
Steam-trap. J. Callicott. No. 1,334,079; Mar. 16; v. 272; p. 472.
Steam-trap. T. Haight. No. 1,333,413; Mar. 9; v. 272; p. 286.
Steam-trap. F. B. Jones. No. 1,340,958; May 25; v. 274; p. 638.

Digitized by Google

Steam-trap. L. R. Mertens. No. 1,362,954; Dec. 21; v. 281; p. 488.
Steam-trap. J. Morehead. No. 1,352,617; Sept. 14; v. 278; p. 210.
Steam-trap. J. Redmond. No. 1,330,612; Feb. 10; v. 271; p. 268.
Steam-trap. W. R. Templeton. No. 1,341,027; May 25; v. 274; p. 652.
Steam-trap. J. R. Turnbull. No. 1,334,821; Mar. 23; v. 272; p. 658.
Steam-trap. A. B. Wallem. No. 1,347,607; July 27; v. 276; p. 627.
Steam-trap. U. Washino. No. 1,338,541; Apr. 27; v. 273; p. 741.
Steam-table. A. M. Demuth. No. 1,356,518; Oct. 26; v. 279; p. 546.
Steam-turbine. H. H. Wait. No. 1,364,012; Dec. 28; v. 281; p. 734.
Steam-turbine engine. J. A. Becklund. No. 1,346,292; July 13; v. 276; p. 253.
Steamer. F. R. Colquit. No. 1,341,972; June 1; v. 275; p. 71.
Steamer, Wheat-. K. Dougan. No. 1,345,840; July 6; v. 276; p. 100.
Steaming-receptacle. G. G. Skelton. No. 1,361,552; Dec. 7; v. 281; p. 116.
Steel and steel alloys, Process and apparatus for manufacturing. W. E. Moore. No. 1,335,009; Mar. 30; v. 272; p. 754.
Steel and forming and forging same, High-speed. J. P. Waters. No. 1,345,045; June 29; v. 275; p. 918.
Steel articles, Device for heat-treating. T. F. Baily and F. T. Cope. No. 1,335,545; Mar. 30; v. 272; p. 854.
Steel articles, Method of and apparatus for hardening manganese-. F. Schaffer. No. 1,362,147; Dec. 14; v. 281; p. 280.
Steel-ball-making machine. K. Kobayashi. No. 1,337,079; Apr. 13; v. 273; p. 321.
Steel bodies, Amalgamating. C. V. Balke. No. 1,349,999; Aug. 17; v. 277; p. 489.
Steel, Carbonizing. T. R. Ferguson and E. L. Larson. No. 1,343,359; June 15; v. 275; p. 458.
Steel, Case-hardening. J. D. Cutter. No. 1,358,831; Nov. 16; v. 280; p. 425.
Steel, Casting. D. T. Main. No. 1,327,398; Jan. 6; v. 270; p. 96.
Steel concrete girders, Support-strap for reinforcement in J. E. Orvin. No. 1,342,349; June 1; v. 275; p. 144.
Steel during heat treatment, Means for positively indicating the condition of. C. O. Bastian. No. 1,346,693; July 13; v. 276; p. 331.
Steel, High-speed. J. O. Arnold. No. 1,345,732; July 6; v. 276; p. 79.
Steel, High-speed. W. L. E. Eilender. No. 1,337,209; Apr. 20; v. 273; p. 420.
Steel, High-speed tool-. W. L. E. Eilender. No. 1,337,210; Apr. 20; v. 273; p. 420.
Steel, Improving the machining properties of. M. T. Lothrop. No. 1,360,551; Nov. 30; v. 280; p. 875.
Steel in open-hearth steel-furnaces, Making basic. C. H. F. Bagley. No. 1,328,803; Jan. 27; v. 270; p. 487.
Steel ingots, Treating. C. H. Read. No. 1,349,733; Aug. 17; v. 277; p. 438.
Steel, iron, and similar articles, Treatment of. H. C. Baines. No. 1,344,872; June 22; v. 275; p. 728.
Steel jackets to cast-iron motor-cylinders for water-cooling, &c., Means for attaching sheet-. A. Maire. No. 1,345,684; July 6; v. 276; p. 70.
Steel, Making chrome-. H. C. Sicard. No. 1,346,344; July 13; v. 276; p. 263.
Steel. Making manganese. W. G. Nichols. No. 1,356,551; Oct. 26; v. 279; p. 553.
Steel, Making manganese. W. G. Nichols. No. 1,359,268; Nov. 16; v. 280; p. 507.
Steel, Magnet-. K. Honda. No. 1,338,132; Apr. 27; v. 273; p. 664.
Steel, Magnet-. K. Honda. No. 1,338,133; Apr. 27; v. 273; p. 665.
Steel, Magnet-. K. Honda. No. 1,338,134; Apr. 27; v. 273; p. 665.
Steel manufacture. A. H. Henderson. No. 1,361,383; Dec. 7; v. 281; p. 80.
Steel manufacture. W. L. Turner. No. 1,360,830; Nov. 30; v. 280; p. 930.
Steel manufacture. G. B. Waterhouse. No. 1,352,710; Sept. 14; v. 278; p. 229.
Steel, Manufacture of. G. Cinille. No. 1,352,580; Sept. 14; v. 278; p. 203.
Steel, Manufacture of. R. A. Hadfield. No. 1,347,741; July 27; v. 276; p. 655.
Steel, Manufacture of alloy. R. A. Hadfield. No. 1,362,788; Dec. 21; v. 281; p. 457.
Steel, Manufacturing. R. H. Irons. No. 1,345,182; June 29; v. 275; p. 946.
Steel, Manufacturing. D. R. Knapp. No. 1,361,589; Dec. 7; v. 281; p. 123.
Steel members by electric welding, Joining structural. C. H. Kicklighter. No. 1,329,413; Feb. 3; v. 271; p. 13.
Steel or iron structure work. T. R. Little. No. 1,328,841; Jan. 27; v. 270; p. 495.
Steel plate, Reinforced. R. A. Nelson. No. 1,356,000; Oct. 19; v. 279; p. 397.
Steel plates, Making composite. W. Worthington. No. 1,351,824; Sept. 7; v. 278; p. 22.
Steel, Producing. A. Vögler. No. 1,342,701; June 8; v. 275; p. 265.
Steel, Producing zirconium. H. C. Sicard. No. 1,335,992; Apr. 6; v. 273; p. 55.
Steel, Rail-. C. H. Wills. No. 1,331,175; Feb. 17; v. 271; p. 443.
Steel scrap, Utilizing. G. M. Muntz and C. M. Roubieu. No. 1,336,256; Apr. 6; v. 273; p. 104.
Steel sheets, Manufacture of. V. B. Browne. No. 1,340,149; May 18; v. 274; p. 415.
Steel sheets, Manufacture of manganese-. R. A. Hadfield. No. 1,344,392; June 22; v. 275; p. 726.
Steel tie, Adjustable. W. Nelson. No. 1,357,180; Oct. 26; v. 279; p. 675.
Steel transmission-case, Press-. A. H. Leipert. No. 1,327,681; Jan. 13; v. 270; p. 211.
Steel, Treating. N. C. Einwechter. No. 1,359,238; Nov. 16; v. 280; p. 502.
Steel, Treating. E. F. Kenney. No. 1,334,379; Mar. 23; v. 272; p. 574.
Steel, Treating high-speed. C. A. Whitmyre. No. 1,359,851; Nov. 23; v. 280; p. 669.
Steel treatment. D. J. Simpson. No. 1,351,494; Aug. 31; v. 277; p. 889.
Steel-treatment apparatus. D. J. Simpson. No. 1,351,495; Aug. 31; v. 277; p. 889.
Steel-treatment-transferring system and apparatus therefor. D. J. Simpson. No. 1,348,903; Aug. 10; v. 277; p. 201.
Steel vise-tie. W. T. Griffith. No. 1,333,484; Mar. 9; v. 272; p. 300.
Steel wheel. L. M. Ricketts. No. 1,352,146; Sept. 7. v. 278; p. 84.
Steels and iron, Composition of matter for use in welding. E. D. Kendall. No. 1,338,736; May 4; v. 274; p. 16.
Steering apparatus. E. A. Parmele and T. McLean. No. 1,344,352; June 22; v. 275; p. 719.
Steering apparatus. E. E. Winkley. No. 1,330,418; Feb. 10; v. 271; p. 232.
Steering apparatus, Automatic. E. E. Winkley. No. 1,361,127; Dec. 7; v. 281; p. 29.
Steering apparatus, Gear reduction and lock for. N. Hall. No. 1,339,454; May 11; v. 274; p. 225.
Steering-balance. W. H. Johnson. No. 1,346,211; July 13; v. 276; p. 235.
Steering column and wheel. E. Dvorak. No. 1,330,178; Feb. 10; v. 271; p. 187.
Steering-controller. P. A. Weigel. No. 1,350,285; Aug. 17; v. 277; p. 543.
Steering device. A. E. Drake. No. 1,352,659; Sept. 14; v. 278; p. 219.
Steering device. J. M. H. Jacobs. No. 1,342,385; June 1; v. 275; p. 150.
Steering device. H. A. Roan. No. 1,343,062; June 8; v. 275; p. 337.
Steering device. N. Small. No. 1,339,294; May 4; v. 274; p. 118.
Steering device. C. Walters, Jr. No. 1,339,048; May 4; v. 274; p. 74.
Steering device, Automatic. H. Dingman. No. 1,359,878; Nov. 23; v. 280; p. 674.
Steering device, Detachable. P. R. Janney. No. 1,327,829; Jan. 13; v. 270; p. 239.
Steering device, Extension-. E. J. Sella. No. 1,347,296; July 20; v. 276; p. 509.
Steering device, Tractor-. H. E. Abbott and E. Enz. No. 1,327,511; Jan. 6; v. 270; p. 118.
Steering device, Tractor-. J. M. Custenborder. No. 1,348,630; Aug. 3; v. 277; p. 97.
Steering-gear. M. P. Funk. No. 1,360,518; Nov. 30; v. 280; p. 868.
Steering-gear. J. L. Hofer. No. 1,327,616; Jan. 13; v. 270; p. 199.
Steering-gear. O. S. Pulliam. No. 1,355,570; Oct. 12; v. 279; p. 274.
Steering-gear. F. H. Ragan. No. 1,344,005; June 22; v. 275; p. 651.
Steering-gear attachment. E. G. Staude. No. 1,333,347; Mar. 9; v. 272; p. 274.
Steering-gear, Automatic controller for. C. B. Post. No. 1,353,610; Sept. 21; v. 278; p. 467.
Steering gear device, Combined worm and lever. F. B. Alldredge. No. 1,351,937; Sept. 7; v. 278; p. 45.
Steering-gear lock, Automobile-. F. O. Boswell. No. 1,345,828; July 6; v. 276; p. 98.
Steering-gear lock, Automobile-. H. H. Broomhead. No. 1,349,490; Aug. 10; v. 277; p. 317.
Steering-gear, Marine. T. McLeod. No. 1,358,454; Nov. 9; v. 280; p. 305.
Steering-gear mechanism. J. N. Kelly. No. 1,334,498; Mar. 23; v. 272; p. 597.
Steering-gear, Power. R. F. Laird. No 1,355,152; Oct. 12; v. 279; p. 192.
Steering-knuckle. J. S. Baird. No. 1,355,377; Oct. 12; v. 279; p. 236.
Steering-knuckle. L. E. Howell. No. 1,356,984; Oct. 26; v. 279; p. 638.
Steering machine. R. M. Kanik. No. 1,357,327; Nov. 2; v. 280; p. 25.

Digitized by Google

Steering mechanism. W. T. Bell and F. J. Bretherton. No. 1,361,668; Dec. 7; v. 281; p. 188.
Steering mechanism. C. H. Blomstrom. No. 1,352,868; Sept. 14; v. 278; p. 261.
Steering mechanism. R. P. Hicks. No. 1,359,505; Nov. 23; v. 280; p. 600.
Steering mechanism. J. N. Kelly. No. 1,341,326; May 25; v. 274; p. 709.
Steering mechanism, Automobile. J. M. Benson. No. 1,349,653; Aug. 17; v. 277; p. 422.
Steering-mechanism lock. O. C. Slaughter. No. 1,350,526; Aug. 24; v. 277; p. 638.
Steering mechanism, Shock-absorbing. C. Dyer. No. 1,349,415; Aug. 10; v. 277; p. 302.
Steering mechanism, Tractor-. E. A. Johnson and E. J. Kane. No. 1,351,759; Sept. 7; v. 278; p. 9.
Steering mechanism, Tractor. L. A. Robinson. No. 1,333,683; Mar. 16; v. 272; p. 398.
Steering mechanisms, Gripping device for. C. C. Brown and R. H. Renfroe. No. 1,330,578; Feb. 10; v. 271; p. 262.
Steering-post lock. J. A. Olbon. No. 1,360,675; Nov. 30; v. 280; p. 899.
Steering-post lock. C. R. and F. H. Piggins. No. 1,347,871; July 27; v. 276; p. 680.
Steering-post lock. J. O. Ritter. No. 1,331,942; Feb. 24; v. 271; p. 607.
Steering-post lock, Automobile-. L. S. McCormick. No. 1,358,408; Sept. 21; v. 278; p. 425.
Steering-post lock, Automobile-. J. A. Olbon. No. 1,360,674; Nov. 30; v. 280; p. 899.
Steering-posts, Support for agricultural-implement. S. H. Phelps. No. 1,331,448; Feb. 17; v. 271; p. 493.
Steering reach-rod. R. A. Kaps. No. 1,337,138; Apr. 13; v. 273; p. 332.
Steering transmission, Positive-reduction. E. E. Wickersham. No. 1,344,368; June 22; v. 275; p. 722.
Steering-wheel. W. H. Appleby. No. 1,341,032; May 25; v. 274; p. 652.
Steering-wheel. F. R. Hancock and R. F. Hoffman. No. 1,347,156; July 20; v. 276; p. 481.
Steering-wheel. J. N. Kelly. No. 1,333,024; Mar. 9; v. 272; p. 213.
Steering-wheel. A. F. Masury and A. G. Herreshoff. No. 1,361,272; Dec. 7; v. 281; p. 58.
Steering-wheel. W. C. Rastetter. No. 1,331,210; Feb. 17; v. 271; p. 449.
Steering-wheel and lock, Adjustable. F. W. Vodos. No. 1,340,638; May 18; v. 274; p. 507.
Steering-wheel, Automobile. L. F. Stout. No. 1,331,595; Feb. 24; v. 271; p. 542.
Steering-wheel, Detachable. J. Strukelj. No. 1,334,417; Mar. 23; v. 272; p. 582.
Steering-wheel for vehicles, Driven. S. S. Rose. No. 1,347,293; July 20; v. 276; p. 509.
Steering-wheel, Heated. S. P. Kay. No. 1,358,451; Nov. 9; v. 280; p. 305.
Steering-wheel lock. G. R. Davidson. No. 1,348,547; Aug. 3; v. 277; p. 81.
Steering-wheel lock. J. W. Markham. No. 1,328,882; Jan. 27; v. 270; p. 503.
Steering-wheel lock. W. B. Turner. No. 1,347,564; July 27; v. 276; p. 619.
Steering-wheel lock. F. R. Warren. No. 1,349,027; Aug. 10; v. 277; p. 226.
Steering-wheel lock. J. Wilding. No. 1,354,153; Sept. 28; v. 278; p. 620.
Steering-wheel lock, Automobile. P. McGuire. No. 1,329,913; Feb. 3; v. 271; p. 106.
Steering-wheel lock, Motor-vehicle-. C. H. Resch. No. 1,328,691; Jan. 20; v. 270; p. 438.
Steering-wheel, Locking. E. H. Vincent. No. 1,335,865; Apr. 6; v. 273; p. 30.
Steering-wheels, Electric heater for. E. J. Rohne. No. 1,345,249; June 29; v. 275; p. 957.
Steering-wheels, Locking device for. H. C. Miller. No. 1,347,837; July 20; v. 276; p. 419.
Steering-wheels, Means for setting and locking vehicle. H. J. Lee. No. 1,362,016; Dec. 14; v. 281; p. 254.
Steering-wheels, Permutation-lock for. O. J. Manthey. No. 1,347,516; July 27; v. 276; p. 609.
Steering-wheels, Writing attachment for automobile. A. C. Fox. No. 1,344,498; June 22; v. 275; p. 748.
Stein. A. G. Wiedmann. No. 1,344,072; June 22; v. 275; p. 664.
Stem-picker. E. C. Horst. No. 1,348,139; July 27; v. 276; p. 734.
Stencil. W. L. Decker. No. 1,355,542; Oct. 12; v. 279; p. 268.
Stencil. L. Wallenstein. No. 1,345,653; July 6; v. 276; p. 63.
Stencil-card and stenciling monograms. F. M. Sayford. No. 1,351,068; Aug. 31; v. 277; p. 805.
Stencil-machine. L. A. Wernery. No. 1,341,402; May 25; v. 274; p. 724.
Step. S. P. Barksdale. No. 1,336,718; Apr. 13; v. 273; p. 252.
Step, Folding extension-. V. O. Sauer and W. B. Reeve. No. 1,349,585; Aug. 17; v. 277; p. 409.
Step, Portable. W. F. Jacobs. No. 1,363,418; Dec. 28; v. 281; p. 618.
Stepladder. L. Anechiarico. No. 1,354,370; Sept. 28; v. 278; p. 663.
Stepladder. O. W. Brown, Jr. No. 1,345,990; July 6; v. 276; p. 131.
Stepladder. M. E. Kelleher. No. 1,337,657; Apr. 20; v. 273; p. 504.
Stepladder. A. J. Ramalia. No. 1,337,666; Apr. 20; v. 273; p. 506.
Stepladder. A. Swanson. No. 1,347,600; July 27; v. 276; p. 626.
Stepladder. H. A. Udell. No. 1,342,881; June 8; v. 275; p. 302.
Stepladder. W. M. Voss. No. 1,359,297; Nov. 16; v. 280; p. 513.
Stepladder-chair. S. Stayman. No. 1,362,051; Dec. 14; v. 281; p. 261.
Stepladder, Combined extensible or adjustable and foldable. J. Jonsson. No. 1,342,542; June 8; v. 275; p. 284.
Stepladder with automatic spreading and bracing means. C. J. Brown. No. 1,331,953; Feb. 24; v. 271; p. 609.
Stereopticon. W. R. Mengel. No. 1,342,560; June 8; v. 275; p. 238.
Stereopticon. W. R. Mengel. No. 1,342,561; June 8; v. 275; p. 239.
Stereopticon. W. R. Mengel. No. 1,355,096; Oct. 5; v. 279; p. 129.
Stereopticon, Advertising. H. A. Miedreich. No. 1,361,274; Dec. 7; v. 281; p. 58.
Stereopticon apparatus. M. Klaiber. No. 1,349,725; Aug. 17; v. 277; p. 437.
Stereoscope. T. Terashima. No. 1,349,018; Aug. 10; v. 277; p. 224.
Stereoscope, Cinematographic. H. R. Zimmer. No. 1,334,480; Mar. 23; v. 272; p. 593.
Stereotype-finishing apparatus. C. E. Hopkins. No. 1,354,751; Oct. 5; v. 279; p. 60.
Stereotype-matrices, Making. C. Winkler. No. 1,333,361; Mar. 9; v. 272; p. 277.
Stereotype-plate casting and cooling machine, Semi-automatic. C. E. Hopkins. No. 1,330,942; Feb. 17; v. 271; p. 400.
Stereotype-plates, Machine for casting and finishing tubular. C. E. Hopkins. No. 1,341,557; May 25; v. 274; p. 754.
Sterilizer. J. Ambruster. No. 1,354,792; Oct. 5; v. 279; p. 69.
Sterilizer. C. W. Bryant. No. 1,345,123; June 29; v. 275; p. 933.
Sterilizer. H. M. Case. No. 1,333,069; Apr. 27; v. 273; p. 653.
Sterilizer. A. H. Jessup. No. 1,331,468; Feb. 17; v. 271; p. 497.
Sterilizer. C. L. Medearis. No. 1,362,258; Dec. 14; v. 281; p. 302.
Sterilizer-container. W. J. Weglener. No. 1,357,754; Nov. 2; v. 280; p. 105.
Sterilizer-rack. H. Baehr. No. 1,344,252; June 22; v. 275; p. 698.
Sterilizing apparatus. I. W. P. Buchanan. No. 1,348,108; June 8; v. 275; p. 347.
Sterilizing apparatus. C. F. Wallace and M. F. Tiernan. No. 1,332,010; Feb. 24; v. 271; p. 620.
Sterilizing device. L. H. Allen. No. 1,348,837; Aug. 10; v. 277; p. 189.
Sterilizing-pan. C. C. Herbert. No. 1,343,779; June 15; v. 275; p. 542.
Stethoscope. F. C. Aschburner. No. 1,350,767; Aug. 24; v. 277; p. 685.
Stethoscope. J. D. Pollard. No. 1,329,430; Feb. 3; v. 271; p. 16.
Stethoscope. S. H. Rubin. No. 1,344,655; June 29; v. 275; p. 844.
Stethoscope, Motor-. O. Smiley. No. 1,340,299; May 18; v. 274; p. 442.
Stethoscope, Motor-. O. Smiley. No. 1,340,300; May 18; v. 274; p. 442.
Stethoscopes, Amplifier for. O. Smiley and D. A. Anderson. No. 1,363,929; Dec. 28; v. 281; p. 718.
Still and still-setting. H. Henderson. No. 1,335,488; Mar. 30; v. 272; p. 834.
Still, Compound. A. C. Badger. No. 1,362,666; Dec. 21; v. 281; p. 433.
Stilt. W. S. Hasskarl. No. 1,348,110; July 27; v. 276; p. 728.
Stilt. R. J. Lynch. No. 1,347,958; July 27; v. 276; p. 697.
Stirring and dipping device. E. and G. Kent. No. 1,361,766; Dec. 7; v. 281; p. 157.
Stirrup, Bolster-. J. P. Carter. No. 1,350,780; Aug. 24; v. 277; p. 687.
Stirrup-leather. W. L. F. Faithfull. No. 1,335,826; Apr. 6; v. 273; p. 23.
Stirrup, Pump-. C. D. Brandt. No. 1,339,943; May 11; v. 274; p. 318.
Stirrup, Safety-. F. Gibbons. No. 1,357,161; Oct. 26; v. 279; p. 672.
Stirrup, Safety-. W. R. Green. No. 1,352,406; Sept. 7; v. 278; p. 132.
Stitch-separating machine. F. H. Perry. No. 1,357,511; Nov. 2; v. 280; p. 58.

Digitized by Google

Alphabetical list of inventions—Continued.

Stitches, Feeding device for producing spiral. H. Adler. No. 1,340,099; May 11; v. 274; p. 347.
Stitches, Means for forming lines of. L. U. Joedicke. No. 1,333,545; Mar. 9; v. 272; p. 311.
Stitching-machine. J. W. Nasmith. No. 1,346,415; July 13; v. 276; p. 276.
Stitching machine, Basket-cover-. J. G. Eklund. No. 1,334,742; Mar. 23; v. 272; p. 643.
Stitching machine, Book-. M. Christensen. No. 1,344,441; June 22; v. 275; p. 786.
Stitching machine, Booklet-. A. H. Maynard. No. 1,336,251; Apr. 6; v. 273; p. 103.
Stitching machine, Feeding mechanism for book-. M. Christensen. No. 1,351,231; Aug. 31; v. 277; p. 837.
Stitching machine, Leather-. R. H. Rudolph. No. 1,352,222; Sept. 7; v. 278; p. 98.
Stitching machine, Mattress-side-. F. W. H. Collett. No. 1,342,423; June 8; v. 275; p. 211.
Stitching machine, Multiple-needle chain-. G. S. Gatchell. No. 1,335,374; Mar. 30; v. 272; p. 822.
Stitching machine, Signature-. M. Christensen. No. 1,348,850; Aug. 10; v. 277; p. 191.
Stitching machine, Sole-. A. M. Holtsman. No. 1,347,038; July 20; v. 276; p. 459.
Stitching-machines, Control for. M. Christensen. No. 1,353,989; Sept. 28; v. 278; p. 585.
Stitching machines. Conveyer for book-. M. Christensen. No. 1,348,849; Aug. 10; v. 277; p. 191.
Stitching machines, Duplex needle-plate for sole-. T. S. Graham. No. 1,342,903; June 8; v. 275; p. 306.
Stitching machines, Pusher member for book-. M. Christensen. No. 1,360,886; Nov. 30; v. 280; p. 941.
Stock-breeding device. W. A. Morgan. No. 1,334,256; Mar. 16; v. 272; p. 504.
Stock-cutting machine. E. E. Winkley. No. 1,342,144; June 1; v. 275; p. 104.
Stock-cutting machine. E. E. Winkley. No. 1,352,492; Sept. 14; v. 278; p. 185.
Stock-feeding apparatus. L. Smith. No. 1,364,008; Dec. 28; v. 281; p. 732.
Stock-guard. L. Evans. No. 1,359,974; Nov. 23; v. 280; p. 694.
Stock-guard. W. M. Petty. No. 1,357,896; Nov. 2; v. 280; p. 133.
Stock indicating and recording device. W. M. Kelly. No. 1,343,511; June 15; v. 275; p. 488.
Stock, Level-. W. J. Neidl. No. 1,362,814; Dec. 21; v. 281; p. 462.
Stock-loading rack. F. A. Bort. No. 1,360,082; Nov. 23; v. 280; p. 715.
Stock-rack. C. P. Zimmerman. No. 1,348,348; Aug. 3; v. 277; p. 42.
Stock-register. J. H. Morin. No. 1,360,432; Nov. 30; v. 280; p. 851.
Stock-rest. H. L. Scholl. No. 1,329,550; Feb. 3; v. 271; p. 39.
Stock-stop. C. W. Metsker. No. 1,355,992; Oct. 19; v. 279; p. 395.
Stock-tie lead. J. C. Chester. No. 1,347,791; June 29; v. 275; p. 870.
Stock-watering tank. A. N. Eaton. No. 1,346,307; July 13; v. 276; p. 255.
Stock whipper, Hard-. G. L. Bidwell. No. 1,352,866; Sept. 14; v. 278; p. 260.
Stocking. W. J. Longtin. No. 1,353,659; Sept. 21; v. 278; p. 477.
Stocking. J. C. Matlack. No. 1,352,078; Sept. 7; v. 278; p. 71.
Stocking and making same. R. W. Scott. No. 1,327,217; Jan. 6; v. 270; p. 64.
Stocking-holding device. F. J. Ash. No. 1,348,922; Aug. 10; v. 277; p. 205.
Stocking-protector. P. L. Fortin. No. 1,356,492; Oct. 19; v. 279; p. 494.
Stocking-supporter. C. M. Supple. No 1,353,671; Sept. 21; v. 278; p. 479.
Stocking-supporting clasp. E. F. Barri. No. 1,363,950; Dec. 28; v. 281; p. 722.
Stoker. M. Alpern. No. 1,328,611; Jan. 20; v. 270; p. 423.
Stoker. G. A. Kohout. No. 1,355,095; Oct. 5; v. 279; p. 128.
Stoker and draft-controlling mechanism thereof, Underfeed. C. F. Miller. No. 1,352,466; Sept. 14; v. 278; p. 180.
Stoker, Automatic. W. Lloyd. No. 1,330,041; Feb. 3; v. 271; p. 130.
Stoker, Locomotive-. N. M. Lower. No. 1,363,333; Dec. 28; v. 281; p. 603.
Stoker, Mechanical. C. C. Loder. No. 1,329,617; Feb. 3; v. 271; p. 51.
Stoker, Mechanical. J. G. Midgley. No. 1,341,823; June 1; v. 275; p. 61.
Stoker, Mechanical. J. E. Wagoner. No. 1,354,357; Sept. 28; v. 278; p. 661.
Stoker, Mechanical. E. S. Wallen. No. 1,339,581; May 11; v. 274; p. 240.
Stoker, Multiple-feed horizontal underfeed. C. F. Miller. No. 1,352,465; Sept. 14; v. 278; p. 179.
Stoker, Multiple-retort underfeed. C. F. Miller. No. 1,352,464; Sept. 14; v. 278; p. 179.
Stoker, Multiple-section horizontal underfeed. C. F. Miller. No. 1,352,467; Sept. 14; v. 278; p. 180.
Stoker, Underfeed. R. G. Donaldson. No. 1,355,739; Oct. 12; v. 279; p. 306.
Stoker, Underfeed-. W. A. Hare. No. 1,361,988; Dec. 14; v. 281; p. 249.
Stoking apparatus. N. Minorikawa. No. 1,346,879; July 13; v. 276; p. 269.
Stoking mechanism, Automatic. J. A. Carey. No. 1,344,578; June 22; v. 275; p. 764.
Stone, Apparatus for smoothing and polishing. W. MacGregor. No. 1,327,440; Jan. 6; v. 270; p. 104.
Stone, Composition of matter for use in making artificial. M. Zunghandel. No. 1,363,879; Dec. 28; v. 281; p. 708.
Stone-crushing machine. T. G. Rennerfelt. No. 1,358,682; Nov. 9; v. 280; p. 350.
Stone-crushing machine. T. G. Rennerfelt. No. 1,363,270; Dec. 28; v. 281; p. 591.
Stone cutting and handling apparatus. E. C. Morgan. No. 1,330,744; Feb. 10; v. 271; p. 273.
Stone-digging machine. M. McQueen. No. 1,354,321; Sept. 28; v. 278; p. 653.
Stone making, Artificial-. R. I. Kline. No. 1,344,087; June 22; v. 275; p. 667.
Stone, Manufacture of treated. C. L. Steinrok. No. 1,349,389; Aug. 10; v. 277; p. 298.
Stone-picker. W. Leduc. No. 1,338,023; Apr. 27; v. 273; p. 644.
Stone-polishing wheel. J. R. Mitchell. No. 1,354,325; Sept. 28; v. 278; p. 654.
Stone products, Method and means for making artificial-. A. Crook and R. D. Chapman. No. 1,346,638; July 13; v. 276; p. 320.
Stone-profiling machine. E. A. Chase. No. 1,336,942; Apr. 13; v. 273; p. 295.
Stone-spreader. W. M. Scott. No. 1,338,161; Apr. 27; v. 273; p. 670.
Stone-surfacing fibrous materials. W. C. Coryell. No. 1,354,025; Sept. 28; v. 278; p. 593.
Stone with outer and inner, vertical and horizontal through-canals, Mold for casting artificial building-. H. Grönroos. No. 1,340,952; May 25; v. 274; p. 636.
Stones or slabs of marble-like appearance, Production of artificial. H. Grönroos. No. 1,341,979; June 1; v. 275; p. 72.
Stoneworking-machine. E. L. Miller and F. Siegheim. No. 1,359,615; Nov. 23; v. 280; p. 622.
Stooker. C. Boni. No. 1,356,503; Oct. 19; v. 279; p. 496.
Stooker. F. Kohlruss. No. 1,328,674; Jan. 20; v. 270; p. 434.
Stool and ladder, Folding. H. H. Russell. No. 1,333,344; Mar. 9; v. 272; p. 273.
Stool and pail-holder, Combination milking-. O. A. Stromwall. No. 1,333,643; Mar. 16; v. 272; p. 390.
Stool, Folding camp-. H. G. Dale. No. 1,338,124; Apr. 27; v. 273; p. 663.
Stool, Folding camp-. H. G. Dale. No. 1,355,944; Oct. 19; v. 279; p. 386.
Stool or chair, Adjustable. H. Shaw. No. 1,344,092; June 22; v. 275; p. 668.
Stool or chair, Adjustable. H. Shaw. No. 1,357,825; Nov. 2; v. 280; p. 119.
Stool, Treatment-. J. V. McManis. No. 1,326,943; Jan. 6; v. 270; p. 12.
Stools, chairs, &c., Screw-spindle for. O. E. Borgarello. No. 1,332,200; Mar. 2; v. 272; p. 4.
Stop. K. T. Hoffman. No 1,355,337; Oct. 12; v. 279; p. 229.
Stop, Automatic. P. Farb. No. 1,350,796; Aug. 24; v. 277; p. 691.
Stop, Automatic safety-. H. C. Taylor. No. 1,340,305; May 18; v. 274; p. 443.
Stop charge regulator. W. L. Bliss. No. 1,354,799; Oct. 5; v. 279; p. 71.
Stop device. F. Bauer. No. 1,339,052; May 4; v. 274; p. 75.
Stop-indicator. R. Lee and C. A. Hiatt. No. 1,345,937; July 6; v. 276; p. 121.
Stop mechanism. R. L. Campbell. No. 1,340,152; May 18; v. 274; p. 415.
Stop mechanism. E. E. Foster. No. 1,328,145; Jan. 13; v. 270; p. 298.
Stop mechanism. D. F. Lepley. No. 1,346,378; July 13; v. 276; p. 269.
Stop mechanism. T. H. Seely. No. 1,356,406; Oct. 19; v. 279; p. 478.
Stop-motion. E. U. Ames. No. 1,342,245; June 1; v. 275; p. 125.
Stop-motion. A. Crawford. No. 1,332,031; Feb. 24; v. 271; p. 624.
Stop-motion. F. Crawford, Sr. No. 1,354,379; Sept. 28; v. 278; p. 665.
Stop-motion. J. A. Fenton. No. 1,353,226; Sept. 21; v. 278; p. 390.
Stop-motion. J. P. Weis. No. 1,352,333; Sept. 7; v. 278; p. 119.
Stop-motion device. W. S. Mills and H. E. Bisaillon. No. 1,359,266; Nov. 16; v. 280; p. 507.
Stop-motion, Roller-lap. J. and C. Heywood. No. 1,342,713; June 8; v. 275; p. 268.

Digitized by Google

Stop-motion, Take-up. H. R. Bauer and H. F. Reinhold. No. 1,342,272; June 1; v. 275; p. 130.
Stop-release cover-support. N. C. Lund. No. 1,362,255; Dec. 14; v. 281; p. 302.
Stopcock. J. W. Calhoun. No. 1,330,459; Feb. 10; v. 271; p. 240.
Stopcock. A. Eimer and W. T. Wiegand. No. 1,349,823; Aug. 17; v. 277; p. 455.
Stopcock. D. C. Fisher. No. 1,332,492; Mar. 2; v. 272; p. 61.
Stopper: *See*—
Bottle-stopper.
Condiment-stopper.
Flue-stopper.
Leak-stopper.
Receptacle-stopper.
Safety-stopper.
Tube-stopper.
Vaporizing-stopper.
Vessel leak-stopper.
Stopper. W. M. Grosvenor. No. 1,332,335; Mar. 2; v. 272; p. 30.
Stopper-extractor. C. Drew. No. 1,330,689; Feb. 10; v. 271; p. 282.
Stopper-puller. T. C. Spelling. No. 1,341,680; June 1; v. 275; p. 13.
Stopping and starting mechanism. A. R. Schoenky. No. 1,352,226; Sept. 7; v. 278; p. 98.
Stopping device. A. Pogany. No. 1,339,474; May 11; v. 274; p. 229.
Storage batteries, Charging. A. H. Hoffman. No. 1,362,794; Dec. 21; v. 281; p. 458.
Storage batteries, Relief mechanism for. W. P. Loudon. No. 1,363,606; Dec. 28; v. 281; p. 656.
Storage battery. J. Balsano. No. 1,362,554; Dec. 14; v. 281; p. 359.
Storage battery. D. W. Davis. No. 1,359,491; Nov. 23; v. 280; p. 597.
Storage battery. W. S. Gould. No. 1,363,645; Dec. 28; v. 281; p. 662.
Storage battery. W. S. Gould. No. 1,363,646; Dec 28; v. 281; p. 663.
Storage battery. A. S. Hubbard. No. 1,363,648; Dec. 28; v. 281; p. 663.
Storage battery. A. S. Hubbard. No. 1,363,649; Dec. 28; v. 281; p. 663.
Storage battery. A. S. Hubbard. No. 1,363,650; Dec. 28; v. 281; p. 664.
Storage battery. P. D. Ivey and A. J. Salisbury. No. 1,340,269; May 18; v. 274; p. 436.
Storage battery. P. M. Marko. No. 1,329,917; Feb. 3; v. 271; p. 107.
Storage battery. I. M. Noble and W. E. Gossling. No. 1,350,561; Aug. 24; v. 277; p. 645.
Storage battery. P. B. Rabe. No. 1,328,393; Jan. 20; v. 270; p. 382.
Storage battery. P. B. Rabe. No. 1,328,394; Jan. 20; v. 270; p. 382.
Storage battery. A. H. Snyder. No. 1,363,684; Dec. 28; v. 281; p. 670.
Storage battery. A. H. Snyder. No. 1,363,685; Dec. 28; v. 281; p. 670.
Storage battery. A. H. Snyder. No. 1,363,686; Dec. 28; v. 281; p. 671.
Storage battery. N. D. Sturges. No. 1,340,636; May 18; v. 274; p. 507.
Storage battery. N. D. Sturges. No. 1,340,637; May 18; v. 274; p. 507.
Storage-battery jar. T. A. Willard. No. 1,327,649; Jan. 13; v. 270; p. 205.
Storage battery, Electric. E. Hacking. No. 1,362,294; Dec. 14; v. 281; p. 309.
Storage battery, Electric. F. W. Radell. No. 1,347,588; July 27; v. 276; p. 624.
Storage-battery-plate tray. H. C. Stalley. No. 1,329,556; Feb. 3; v. 271; p. 40.
Storage-battery plates, Separator for. G. W. Pleis. No. 1,362,737; Dec. 21; v. 281; p. 447.
Storage battery, Self-filling. N. D. Sturges. No. 1,327,121; Jan. 6; v. 270; p. 45.
Storage-battery separator. G. H. Rabenalt. No. 1,363,754; Dec. 28; v. 281; p. 684.
Storage-bin. R. E. Baker. No. 1,338,482; Apr. 27; v. 273; p. 730.
Storage-bin. R. E. Baker. No. 1,338,483; Apr. 27; v. 273; p. 780.
Storage building. E. W. Burgess. No. 1,344,617; June 29; v. 275; p. 837.
Storage-cell. R. Drambourg. No. 1,333,295; Mar. 9; v. 272; p. 264.
Storage of energy due to an explosion. G. Constantinesco and J. R. Middleton. No. 1,338,676; May 4; v. 274; p. 5.
Storage-receptacles, Constructing. R. E. Baker. No. 1,338,484; Apr. 27; v. 273; p. 731.
Storage structure. W. T. Krausch. No. 1,356,155; Oct. 19; v. 279; p. 429.
Store-case. W. B. Morton. No. 1,328,185; Jan. 13; v. 270; p. 306.
Store construction. J. M. Turner. No. 1,343,801; June 15; v. 275; p. 546.
Store-fixture. E. Chalenburg. No. 1,356,694; Oct. 26; v. 279; p. 581.
Store-front construction. G. C. Hester. No. 1,363,735; Dec. 28; v. 281; p. 680.
Store-front construction. F. J. Plym and I. G. Barclay. No. 1,334,398; Mar. 23; v. 272; p. 578.
Store-front construction. T. C. Sherwood. No. 1,334,806; Mar. 23; v. 272; p. 655.
Store, Home. S. M. Debakey. No. 1,337,050; Apr. 13; v. 278; p. 316.
Store self-service system. J. H. Carroll. No. 1,347,936; July 27; v. 276; p. 653.
Store, Self-serving. F. W. Davis. No. 1,345,481; July 6; v. 276; p. 30.
Store, Self-serving. H. C. Harvey. No. 1,350,996; Aug. 24; v. 277; p. 728.
Store, Self-serving. W. B. McCarty. No. 1,347,024; July 27; v. 276; p. 711.
Store, Self-serving. E. L. da Rosa. No. 1,354,957; Oct. 5; v. 279; p. 101.
Store, Self-serving. C. Saunders. No. 1,357,521; Nov. 2; v. 280; p. 60.
Store, Self-serving vehicle-. J. B. Moody. No. 1,355,408; Oct. 12; v. 279; p. 242.
Store-service apparatus. L. W. Chism. No. 1,347,498; July 27; v. 276; p. 605.
Storing and delivering apparatus. E. R. Gill. No. 1,348,490; Aug. 3; v. 277; p. 70.
Storm and screen window hanger. S. G. Calvelage. No. 1,337,689; Apr. 20; v. 273; p. 511.
Stove. C. J. Berglann. No. 1,343,341; June 15; v. 275; p. 455.
Stove. J. Bilan. No. 1,340,367; May 18; v. 274; p. 455.
Stove. B. H. Dickson and J. E. Fry. No. 1,343,122; June 8; v. 275; p. 350.
Stove. A. Erickson. No. 1,361,701; Dec. 7; v. 281; p. 145.
Stove. J. Flint. No. 1,342,163; June 1; v. 275; p. 108.
Stove. C. C. Foster. No. 1,353,826; Sept. 28; v. 278; p. 552.
Stove. G. W. Graves. No. 1,353,743; Sept. 21; v. 278; p. 493.
Stove. S. S. Hipple. No. 1,355,556; Oct. 12; v. 279; p. 271.
Stove. P. P. Melanson. No. 1,342,921; June 8; v. 275; p. 310.
Stove. L. Mitchell. No. 1,347,586; July 27; v. 276; p. 623.
Stove. G. W. Myers. No. 1,358,570; Nov. 9; v. 280; p. 328.
Stove. N. Pamberton-Billing. No. 1,349,732; Aug. 17; v. 277; p. 438.
Stove. W. E. Peters. No. 1,357,182; Oct. 26; v. 279; p. 676.
Stove. W. N. Regan. No. 1,360,795; Nov. 30; v. 280; p. 923.
Stove. W. F. Rogers No. 1,355,848; Oct. 19; v. 279; p. 368.
Stove. F. J. Sass. No. 1,338,463; Apr. 27; v. 273; p. 726.
Stove. J. G. Scott. No. 1,335,760; Apr. 6; v. 278; p. 11.
Stove. E. W. Seeger. No. 1,348,588; Aug. 3; v. 277; p. 89.
Stove. C. G. Terry. No. 1,341,623; May 25; v. 274; p. 766.
Stove. J. M. Tobias. No. 1,348,972; Aug. 10; v. 277; p. 215.
Stove. E. White. No. 1,330,017; Feb. 3; v. 271; p. 125.
Stove. J. R. Wotherspoon and F. E. Coatsworth. No. 1,327,796; Jan. 13; v. 270; p. 233.
Stove, Alcohol-. J. Grochmal. No. 1,339,059; May 4; v. 274; p. 77.
Stove and fireplace. O. V. Bumpass. No. 1,360,619; Nov. 30; v. 280; p. 889.
Stove attachment. S. H. Frederick. No. 1,346,883; July 20; v. 276; p. 428.
Stove attachment. B. Lucas. No. 1,339,268; May 4; v. 274; p. 114.
Stove attachment. L. H. Worthington. No. 1,329,490; Feb. 3; v. 271; p. 28.
Stove attachment for gas-jets, Cook-. W. H. Vincent. No. 1,345,295; June 29; v. 275; p. 967.
Stove, Camp-. E. E. Adams. No. 1,357,697; Nov. 2; v. 280; p. 94.
Stove, Camp-. W. C. O'Kane. No. 1,333,335; Mar. 9; v. 272; p. 272.
Stove-casing. J. C. R. Abernathy. No. 1,357,432; Nov. 2; v. 280; p. 44.
Stove-casing. J. Poris. No. 1,360,314; Nov. 30; v. 280; p. 829.
Stove chimney, Oil-. L. D. Mason. No. 1,335,591; Mar. 30; v. 272; p. 862.
Stove cocks, Guard for gas-. J. Laydon. No. 1,352,287; Sept. 7; v. 278; p. 110.
Stove, Combination-. C. M. Genthner. No. 1,348,709; Aug. 3; v. 277; p. 112.
Stove, Combination gas and coal. H. G. Mersfelder. No. 1,355,991; Oct. 19; v. 279; p. 395.
Stove, Combination of electric and gas. E. G. Marquardt. No. 1,358,966; Nov. 16; v. 280; p. 451.
Stove, Combined coal and gas. J. H. Sattler. No. 1,352,539; Sept. 14; v. 278; p. 194.
Stove, Combined heating, cooking, and baking. B. C. Beach and J. H. Beeby. No. 1,349,652; Aug. 17; v. 277; p. 422.
Stove-damper. J. W. Madden. No. 1,356,381; Oct. 19; v. 279; p. 473.
Stove, Electric. F. C. Boyd and A. J. Barnes. No. 1,363,227; Dec. 28; v. 281; p. 582.

Digitized by Google

Alphabetical list of inventions—Continued.

Stove, Electric. H. W. Gasaway. No. 1,363,108; Dec. 21; v. 281; p. 518.
Stove, Electric. W. P. Robertson. No. 1,359,275; Nov. 16; v. 280; p. 509.
Stove, Electric. C. L. Skinner. No. 1,359,757; Nov. 23; v. 280; p. 651.
Stove, Folding camp-. W. M. Landers. No. 1,348,427; Aug. 3; v. 277; p. 59.
Stove for blast-furnaces and gas-producers, Air-heating. T. Aramaki. No. 1,357,675; Nov. 2; v. 280; p. 90.
Stove, Gas-. D. N. Gross. No. 1,339,618; May 11; v. 274; p. 257.
Stove, Gas-. A. H. Humphrey. No. 1,358,155; Nov. 9; v. 280; p. 244.
Stove, Gas-. S. Kobe. No. 1,344,136; June 22; v. 275; p. 676.
Stove, Gas-. H. W. O'Dowd. No. 1,340,666; May 18; v. 274; p. 512.
Stove, Gas-. N. Schmitt. No. 1,337,418; Apr. 20; v. 273; p. 458.
Stove, Grill-. I. C. Popper. No. 1,351,682; Aug. 31; v. 277; p. 926.
Stove, Heating-. P. W. Banta. No. 1,336,412; Apr. 13; v. 273; p. 194.
Stove, Heating-. F. E. Bowers. No. 1,350,061; Aug. 17; v. 277; p. 501.
Stove, Heating-. F. H. Burgon. No. 1,333,291; Mar. 9; v. 272; p. 263.
Stove, Heating-. D. C. Conklin. No. 1,349,603; Aug. 17; v. 277; p. 413.
Stove, Heating-. F. E. Murphy. No. 1,355,244; Oct. 12; v. 279; p. 211.
Stove, Heating-. E. O. Parr. No. 1,339,039; May 4; v. 274; p. 72.
Stove, Heating-. G. G. Scarborough. No. 1,343,645; June 15; v. 275; p. 515.
Stove, Knockdown. W. H. Robinson. No. 1,327,115; Jan. 6; v. 270; p. 44.
Stove-leg. L. E. Bennett. No. 1,346,526; July 13; v. 276; p. 298.
Stove-leg and caster. J. Peterson. No. 1,353,784; Sept. 21; v. 278; p. 501.
Stove-legs, Caster attachment for. J. O. Sabon. No. 1,341,384; May 25; v. 274; p. 721.
Stove lid and fender, Oil-cook-. T. J. McKay. No. 1,330,648; Feb. 10; v. 271; p. 274.
Stove-lid and pot lifter, Combined. G. J. Beaudet. No. 1,360,359; Nov. 30; v. 280; p. 836.
Stove-lid lifter. S. Galwas. No. 1,363,968; Dec. 28; v. 281; p. 725.
Stove-lid lifter. J. H. Lambert. No. 1,349,211; Aug. 10; v. 277; p. 262.
Stove-lid lifter. J. Polshaw. No. 1,335,191; Mar. 30; v. 272; p. 788.
Stove, Liquid-fuel. L. T. Wilcox. No. 1,355,933; Oct. 19; v. 279; p. 384.
Stove-mat. A. J. Parkhurst. No. 1,356,735; Oct. 26; v. 279; p. 589.
Stove, Oil-. R. Hoffman. No. 1,345,775; July 6; v. 276; p. 88.
Stove, Oil-. W. L. Majors. No. 1,331,162; Feb. 17; v. 271; p. 440.
Stove, Oil-. A. Stockstrom. No. 1,332,775; Mar. 2; v. 272; p. 115.
Stove, Oil heating-. G. W. Ferdon. No. 1,330,691; Feb. 10; v. 271; p. 283.
Stove, Oil heating-. W. C. Lindemann. No. 1,339,208; May 4; v. 274; p. 103.
Stove or furnace. D. Lape. No. 1,334,039; Mar. 16; v. 272; p. 465.
Stove or furnace. E. W. Ryer. No. 1,345,887; July 6; v. 276; p. 110.
Stove or furnace. R. G. Speer. No. 1,332,417; Mar. 2; v. 272; p. 47.
Stove or furnace, Heating. F. D. Cook. No. 1,360,181; Nov. 23; v. 280; p. 734.
Stove-oven entry. H. J. Trenkamp. No. 1,355,868; Oct. 19; v. 279; p. 372.
Stove, Portable. F. Chapman. No. 1,353,314; Sept. 21; v. 278; p. 407.
Stove, Portable. J. Charewicz. No. 1,360,984; Nov. 30; v. 280; p. 959.
Stove, Portable. T. E. Taylor. No. 1,342,072; June 1; v. 275; p. 90.
Stove, Portable cooking-. M. L. Seymour. No. 1,340,421; May 18; v. 274; p. 466.
Stove, Portable fireplace heating-. W. H. Johnston. No. 1,336,700; Apr. 13; v. 273; p. 248.
Stove, Portable heating-. M. J. Otto. No. 1,343,578; June 15; v. 275; p. 502.
Stove, Tent-. J. E. Leonard. No. 1,352,290; Sept. 7; v. 278; p. 111.
Stove-top, Auxiliary. E. Deffenbaugh. No. 1,354,029; Sept. 28; v. 278; p. 594.
Stove-top plate. W. E. Jordan. No. 1,337,774; Apr. 20; v. 273; p. 527.
Stove-trimming. J. Jungers. No. 1,337,605; Apr. 20; v. 273; p. 495.
Stove, Vapor-. S. Selwa. No. 1,348,964; Aug. 10; v. 277; p. 213.
Stove, Vapor-. R. H. Stephens. No. 1,348,759; Aug. 3; v. 277; p. 121.
Stove, Warming and ventilating gas-. P. J. Ogle. No. 1,327,012; Jan. 13; v. 270; p. 273.
Stove with utensils, Folding gasolene-. C. W. Groot. No. 1,354,393; Sept. 28; v. 278; p. 668.
Stoves, Air-distributer for oil-. F. E. White. No. 1,354,083; Sept. 28; v. 278; p. 606.
Stoves, Chimney for oil-burning cook-. F. J. Prideaux. No. 1,361,491; Dec. 7; v. 281; p. 103.
Stoves, Damper mechanism for gas-. T. A. Soults. No. 1,330,989; Feb. 17; v. 271; p. 409.
Stoves, Draft attachment for. J. H. Dean. No. 1,327,988; Jan. 13; v. 270; p. 268.
Stoves, Drier attachment for. G. M. Leeper. No. 1,352,071; Sept. 7; v. 278; p. 69.
Stoves, Electrical fire-lighting attachment for. T. L. Brunelli. No. 1,346,698; July 13; v. 276; p. 332.
Stoves, Flexible connection for. H. B. Reppetto. No. 1,354,419; Sept. 28; v. 278; p. 673.
Stoves, Fuel-economizer for cooking-. J. Dawson. No. 1,346,445; July 13; v. 276; p. 282.
Stoves, furnaces, &c., Automatic power-actuating device for. G. Furuholmen. No. 1,330,795; Feb. 17; v. 271; p. 370.
Stoves, Ignition device for gas-. J. Varin. No. 1,361,650; Dec. 7; v. 281; p. 135.
Stoves, Oil-burner for. C. G. Pfahler. No. 1,331,167; Feb. 17; v. 271; p. 441.
Stoves, Oven attachment for. H. C. Hansen. No. 1,327,203; Jan. 6; v. 270; p. 61.
Stoves, Perforated combustion-section for blue-flame. H. Ruppel. No. 1,333,577; Mar. 9; v. 272; p. 317.
Stoves, Safety attachment for gas-. H. Baehr. No. 1,344,253; June 22; v. 275; p. 698.
Stoves, Separator for gas-. L. V. Ziegler. No. 1,344,670; June 29; v. 275; p. 847.
Stoves, Water-heater for gas-. J. Romstead. No. 1,356,089; Oct. 19; v. 279; p. 415.
Stovepipe, Adjustable. J. Smith. No. 1,331,890; Feb. 17; v. 271; p. 482.
Stovepipe anchor and lock. R. Marshall. No. 1,333,625; Mar. 16; v. 272; p. 387.
Stovepipe and brace, Combined. J. M. Tedder. No. 1,359,127; Nov. 16; v. 280; p. 481.
Stovepipe-cleaner. A. F. Garretson. No. 1,361,708; Dec. 7; v. 281; p. 146.
Stovepipe-cleaner. S. Zave. No. 1,362,660; Dec. 21; v. 281; p. 432.
Stovepipe holder and ventilator. G. C. Graeter. No. 1,355,223; Oct. 12; v. 279; p. 206.
Stovepipe joint or coupling. R. Kersten. No. 1,356,373; Oct. 19; v. 279; p. 471.
Stovepipe-lock. G. W. Hormel. No. 1,345,778; July 6; v. 276; p. 89
Stovepipes, Brush for cleaning. J. Jokisch. No. 1,328,164; Jan. 13; v. 270; p. 302.
Stovepipes, Draft-forming attachment for. A. Oberg. No. 1,332,746; Mar. 2; v. 272; p. 109.
Straightening rails. E. F. Kenney. No. 1,363,601; Dec. 28; v. 281; p. 655.
Strainer. W. W. Beall. No. 1,345,342; July 6; v. 276; p. 4.
Strainer. R. S. Clarke. No. 1,340,599; May 18; v. 274; p. 499.
Strainer. F. Duvall. No. 1,327,582; Jan. 6; v. 270; p. 122.
Strainer. H. E. Leech. No. 1,351,293; Aug. 31; v. 277; p. 849.
Strainer. H. Mock. No. 1,343,679; June 15; v. 275; p. 522.
Strainer. A. J. E. Munters. No. 1,339,037; May 4; v. 274; p. 72.
Strainer. L. Taub. No. 1,357,744; Nov. 2; v. 280; p. 103.
Strainer, Air-. F. S. Orem. No. 1,337,564; Apr. 20; v. 273; p. 487.
Strainer and can-filler, Automatic. J. A. Fraser. No. 1,341,119; May 25; v. 274; p. 669.
Strainer for bibs. P. Mueller. No. 1,356,547; Oct. 26; v. 279; p. 552.
Strainer, Fruit-. V. Plughoff. No. 1,362,135; Dec. 14; v. 281; p. 278.
Strainer holder, Cloth-milk-. J. Carlson. No. 1,335,656; Mar. 30; v. 272; p. 875.
Strainer, Jelly-. C. S. Ludwig. No. 1,353,056; Sept. 14; v. 278; p. 298.
Strainer, Milk-. W. T. Billings and F. Schryver. No. 1,348,536; Aug. 3; v. 277; p. 79.
Strainer, Milk-. C. H. Cutting. No. 1,349,120; Aug. 10; v. 277; p. 244.
Strainer, Milk-. O. Holmer. No. 1,357,867; Nov. 2; v. 280; p. 127.
Strainer, Milk-. N. P. Peterson. No. 1,332,358; Mar. 2; v. 272; p. 36.
Strainer, Oil-. E. P. du Pont. No. 1,352,120; Sept. 7; v. 278; p. 79.
Strainer or receptacle. T. W. Gilmer. No. 1,337,898; Apr. 20; v. 273; p. 851.
Strainer, Sand-. O. R. Kirschke. No. 1,360,301; Nov. 30; v. 280; p. 826.
Strainer, Sugar-juice. M. E. Carter. No. 1,343,078; June 8; v. 275; p. 341.

Digitized by Google

Strainer, Teapot-. D. V. Strong. No. 1,339,008; May 4; v. 274; p. 66.
Strainer, Waste-pipe and sink. I. Maisano. No. 1,333,433; Mar. 9; v. 272; p. 289.
Strap: *See*—
Bath-strap. Shoulder-strap.
Gaiting-strap.
Strap and fastening. F. W. Thorne. No. 1,340,350; May 18; v. 274; p. 452.
Strap-fasteners, Bending device for. A. L. Ward. No. 1,354,150; Sept. 28; v. 278; p. 619.
Strap tightener, Binding-. S. J. Ornston. No. 1,353,973; Sept. 28; v. 278; p. 582.
Straw-dispenser. C. H. Shelton. No. 1,358,884; Nov. 16; v. 280; p. 436.
Straw-spreader. G. A. Hensel. No. 1,343,265; June 15; v. 275; p. 440.
Straw-spreader. J. H. Smith. No. 1,338,045; Apr. 27; v. 273; p. 648.
Straw-spreader. G. W. Williams. No. 1,338,544; Apr. 27; v. 273; p. 741.
Straw-spreading attachment. S. A. Harn. No. 1,349,152; Aug. 10; v. 277; p. 250.
Straw-spreading mechanism. H. C. Wallace. No. 1,347,606; July 27; v. 276; p. 627.
Stream-line bodies, Forming. W. H. Kempton, B. J. Gudge, and F. P. Lauffer. No. 1,344,765; June 29; v. 275; p. 865.
Stream-lining. R. Kemp. No. 1,333,620; Mar. 16; v. 272; p. 386.
Street and station indicator. F. R. Chowen. No. 1,331,980; Feb. 24; v. 271; p. 614.
Street-cleaner. J. L. Hopkins. No. 1,328,738; Jan. 20; v. 270; p. 446.
Street-cleaner. G. Komarcsevits. No. 1,353,047; Sept. 14; v. 278; p. 296.
Street-flusher. E. D. Perry. No. 1,363,993; Dec. 28; v. 281; p. 730.
Street-flusher and oil-distributer and spraying-machine. N. M. Rosendahl. No. 1,357,592; Nov. 2; v. 280; p. 73.
Street-indicator. S. D. Roberson. No. 1,342,394; June 1; v. 275; p. 152.
Street-indicator. C. Treanor. No. 1,354,149; Sept. 28; v. 278; p. 619.
Street-indicator, Tramcar. H. S. Evans. No. 327,274; Jan. 6; v. 270; p. 74.
Street-sweeping machine. S. Duich. No. 1,363,502; Dec. 28; v. 281; p. 635.
Street-traffic signal. T. O. Miller. No. 1,353,999; Sept. 28; v. 278; p. 588.
Street traffic, Signal system for controlling. B. W. Davis. No. 1,328,269; Jan. 20; v. 270; p. 858.
Street-traffic-signaling device. C. H. Peck. No. 1,332,917; Mar. 9; v. 272; p. 193.
Stretcher. D. C. Goodwin. No. 1,332,624; Mar. 2; v. 272; p. 86.
Stretcher. M. V. Hubbard. No. 1,338,774; May 4; v. 274; p. 24.
Stretcher, sick-bed, and the like. M. Lundbom. No. 1,344,088; June 22; v. 275; p. 667.
Stretcher, Skin-. O. G. Bick. No. 1,363,449; Dec. 28; v. 281; p. 624.
Stretching apparatus. A. L. Russell. No. 1,346,258; July 13; v. 276; p. 246.
String-fastener. E. W. S. Gay. No. 1,330,256; Feb. 10; v. 271; p. 202.
Stringed instruments, Tuning-peg for. B. Poehland. No. 1,339,418. May 11; v. 274; p. 218.
Strip-blocking mechanism. A. Sundh. No. 1,326,990; Jan. 6; v. 270; p. 21.
Strip-feeding mechanism. W. H. Browning. No. 1,327,520; Jan. 6; v. 270; p. 120.
Stripping-machine. H. G. Doellinger. No. 1,331,825; Feb. 17; v. 271; p. 470.
Stripping mechanism. P. F. Eckroat. No. 1,357,087; Oct. 26; v. 279; p. 658.
Strop-dressing. L. G. Wesson. No. 1,327,648; Jan. 13; v. 270; p. 205.
Structural bar. K. R. Schuster. No. 1,339,226; May 4; v. 274; p. 107.
Structure. T. E. Richards. No. 1,349,980; Aug. 17; v. 277; p. 485.
Structure. T. E. Richards. No. 1,350,289; Aug. 17; v. 277; p. 544.
Structure, Architectural. W. Polk. No. 1,334,634; Mar. 23; v. 272; p. 622.
Structure, Cylindrical. T. B. Pearson. No. 1,339,802; May 11; v. 274; p. 303.
Structure device. J. F. Couch. No. 1,332,381; Mar. 2; v. 272; p. 40.
Structure, Skeleton. P. A. Dietz. No. 1,362,238; Dec. 14; v. 281; p. 298.
Structure, Staybolt. J. Munhall. No. 1,328,053; Jan. 13; v. 270; p. 281.
Structures and forming same, Staybolt connection for hollow. T. Barrow. No. 1,333,372; Mar. 9; v. 272; p. 278.
Structures, Making return-bends and related. G. E. Ryder. No. 1,352,535; Sept. 14; v. 278; p. 193.
Structures, Method and apparatus for destroying cellular. C. Hering. No. 1,355,476; Oct. 12; v. 279; p. 255.
Strut construction. G. D. Mitchell. No. 1,353,538; Sept. 21; v. 278; p. 451.
Strut-fitting. H. Kleckler. No. 1,349,677; Aug. 17; v. 277; p. 427.
Strut, Fusible. J. Dawson No. 1,342,208; June 1; v. 275; p. 116.
Strut-rod. C. Gitsendanner. No. 1,360,925; Nov. 30; v. 280; p. 947.
Stud. M. F. Carr. No. 1,335,220; Mar. 30; v. 272; p. 793.
Stud-link, Divided. N. D. Powell. No. 1,358,108; Nov. 9; v. 280; p. 235.
Stud or button, Adjustable and separable. K. B. Arthur. No. 1,349,649; Aug. 17; v. 277; p. 421.
Stuffing-box. E. F. Fisher. No. 1,354,544; Oct. 5; v. 279; p. 20.
Stuffing-box, Automatic. A. C. Paulsmeier. No. 1,328,190; Jan. 13; v. 270; p. 307.
Stuffing-machine. J. Dunner. No. 1,330,626; Feb. 10; v. 271; p. 270.
Stump-puller. W. Ballantine. No. 1,359,219; Nov. 16; v. 280; p. 498.
Stump-puller. G. Drazick. No. 1,354,478; Oct. 5; v. 279; p. 5.
Stump-puller. J. F. Gorman. No. 1,348,940; Aug. 10; v. 277; p. 209.
Stump-puller. J. F. Gorman. No. 1,350,994; Aug. 24; v. 277; p. 727.
Stump-puller. B. Mazuryk. No. 1,357,577; Nov. 2; v. 280; p. 71.
Stump-puller. C. D. Pace. No. 1,339,666; May 11; v. 274; p. 266.
Stump-burner. B. F. Paxton. No. 1,347,054; July 20; v. 276; p. 462.
Stump-puller. B. J. Robinson. No. 1,347,792; July 27; v. 276; p. 665.
Stump-puller. W. D. Wright. No. 1,335,630; Mar. 30; v. 272; p. 870.
Stump puller and piler. W. M. and J. H. Jones. No. 1,341,176; May 25; v. 274; p. 680.
Stump-pulling machine. R. E. Baisly. No. 1,335,981; Apr. 6; v. 273; p. 48.
Stump-pulling machine. H. E. Barber. No. 1,349,803; Aug. 17; v. 277; p. 451.
Stump-pulling machines, Anchor for. H. E. Barber. No. 1,346,933; July 20; v. 276; p. 438.
Stump splitter and puller, Hydraulic. H. J. Dana. No. 1,330,687; Feb. 10; v. 271; p. 282.
Stumps, Burning tree-. H. L. Hanson and M. B. Sawyer. No. 1,352,261; Sept. 7; v. 278; p. 105.
Stylus-arm, Offset. J. W. Hughes. No. 1,349,205; Aug. 10; v. 277; p. 261.
Subaqueous rock-drill. C. C. Hansen. No. 1,363,586; Dec. 28; v. 281; p. 652.
Subirrigation system. D. Eichenfeld. No. 1,333,296; Mar. 9; v. 272; p. 264.
Submarine. W. H. Collier. No. 1,345,836; July 6; v. 276; p. 100.
Submarine. W. P. Kennedy. No. 1,358,081; Nov. 9, v. 280; p. 230.
Submarine. G. Lockhart. No. 1,363,001; Dec. 21; v. 281; p. 498.
Submarine. F. Machava. No. 1,363,137; Dec. 21; v. 281; p. 525.
Submarine armor. F. W. Walters. No. 1,359,132; Nov. 16; v. 280; p. 482.
Submarine detecting and destroying apparatus. W. E. Williams. No. 1,344,074; June 22; v. 275; p. 665.
Submarine-detector. G. M. Marshall. No. 1,353,410; Sept. 21; v. 278; p. 426.
Submarine floating body. G. Dalen. No. 1,363,958; Dec. 28; v. 281; p. 728.
Submarine power generation. W. G. Leathers. No. 1,359,513; Nov. 23; v. 280; p. 602.
Submarine-propulsion system. R. V. Morse. No. 1,332,631; Mar. 2; v. 272; p. 87.
Submarine signaling and detection, Method and apparatus for. R. A. Fessenden. No. 1,348,826; Aug. 3; v. 277; p. 133.
Submarine signaling, Apparatus for. R. A. Fessenden. No. 1,348,556; Aug. 3; v. 277; p. 83.
Submarine signaling, Method and apparatus for. R. A. Fessenden. No. 1,348,827; Aug. 3; v. 277; p. 133.
Submarine vessel. L. B. Doane. No. 1,363,851; Dec. 28; v. 281; p. 703.
Submarines, Method and apparatus for locating. R. A. Fessenden. No. 1,348,855; Aug. 10; v. 277; p. 192.
Submarines, Torpedo discharge for. J. Turcan. No. 1,336,110; Apr. 6; v. 273; p. 77.
Submerged or partially submerged obstructions, Apparatus for offence, or defence against. C. D. Burney. No. 1,358,358; Nov. 9; v. 280; p. 285.
Subsill and draft-arm. W. M. Ryan. No. 1,345,257; June 29; v. 275; p. 959.
Substation-circuit. W. H. Martin. No. 1,357,296; Nov. 2; v. 280; p. 19.
Substation-sender. G. H. Heydt. No. 1,355,971; Oct. 19; v. 279; p. 391.
Sucker-rod. C. F. Rigby. No. 1,357,475; Nov. 2; v. 280; p. 52.

Digitized by Google

Alphabetical list of inventions—Continued.

Sucker-rod elevator. W. H. Burstall and W. Adamson. No. 1,341,166; May 25; v. 274; p. 678.
Sucker-rod joint. C. Bell. No. 1,348,692; Aug. 3; v. 277; p. 109.
Sucker-rods, Tool for replacing. E. B. Hatch. No. 1,343,821; June 15; v. 275; p. 550.
Suction and pressure creating apparatus. B. Skidmore, Jr. No. 1,361,190; Dec. 7; v. 281; p. 42.
Suction-cleaner. H. E. Hoover. No. 1,336,078; Apr. 6; v. 273; p. 71.
Suction-cleaner. J. B. Kirby. No. 1,347,166; July 20; v. 276; p. 483.
Suction-cleaner. J. B. Kirby. No. 1,347,167; July 20; v. 276; p. 483.
Suction-cleaner. E. C. Robertson. No. 1,333,682; Mar. 16; v. 272; p. 398.
Suction-cleaner. W. W. Rosenfield. No. 1,348,582; Aug. 3; v. 277; p. 88.
Suction-cleaner. W. W. Rosenfield. No. 1,348,583; Aug. 3; v. 277; p. 88.
Suction-cleaner. W. W. Rosenfield. No. 1,348,585; Aug. 3; v. 277; p. 88.
Suction-cleaner. W. W. Rosenfield. No. 1,348,586; Aug. 3; v. 277; p. 88.
Suction cleaning-machine, Portable. D. P. Moore and S. B. Pack. No. 1,342,345; June 1; v. 275; p. 143.
Suction-controlling device. L. J. Dellert. No. 1,349,499; Aug. 10; v. 277; p. 319.
Sugar, Apparatus for the manufacture of. E. G. Aiscorve. No. 1,358,132; Nov. 9; v. 280; p. 240.
Sugar-cane juice, Apparatus for filtering. A. Arpiazu. No. 1,332,877; Mar. 9; v. 272; p. 185.
Sugar-cane, Macerating crushed. C. McNeil. No. 1,328,090; Jan. 13; v. 270; p. 288.
Sugar-cane mill. A. Kruse. No. 1,331,016; Feb. 17; v. 271; p. 414.
Sugar-dispenser. P. Egnatoff. No. 1,361,146; Dec. 7; v. 281; p. 33.
Sugar-dispenser. J. L. Simpson. No. 1,349,228; Aug. 10; v. 277; p. 265.
Sugar, Extracting. L. Naudet. No. 1,343,737; June 15; v. 275; p. 533.
Sugar, Machine for stirring maple-. M. Hanauer. No. 1,341,743; June 1; v. 275; p. 26.
Sugar-mill housings, Top cap for. J. I. Boyer. No. 1,344,287; June 22; v. 275; p. 706.
Sugar-packing machine. J. Zakarka. No. 1,350,130; Aug. 17; v. 277; p. 514.
Sugar process. R. E. Pospisil and E. Kurek. No. 1,352,084; Sept. 7; v. 278; p. 72.
Sugars, Producing fermentable. G. H. Tomlinson. No. 1,358,898; Nov. 16; v. 280; p. 488.
Suit cases, Apparatus for manufacturing dress-. H. L. Plummer. No. 1,359,427; Nov. 16; v. 280; p. 540.
Suit-hanger. G. Wordingham. No. 1,332,533; Mar. 2; v. 272; p. 69.
Suit-hanger, Folding. L. W. Townsend. No. 1,349,022; Aug. 10; v. 277; p. 224.
Suit, Life-saving. J. Talos. No. 1,350,950; Aug. 24; v. 277; p. 719.
Suitcase attachment. L. H. Sweterlitsch. No. 1,329,937; Feb. 3; v. 271; p. 111.
Suitcase, Convertible. J. Zapert. No. 1,361,953; Dec. 14; v. 281; p. 241.
Suitcase-frame. H. Makruzin. No. 1,329,194; Jan. 27; v. 270; p. 562.
Suitcase, Go-cart. W. H. Lester. No. 1,348,723; Aug. 3; v. 277; p. 114.
Suitcase-handle. E. C. Horstman. No. 1,342,677; June 8; v. 275; p. 260.
Suitcases, valises, and the like, Disappearing handle for. H. J. Chilton. No. 1,343,195; June 15; v. 275; p. 428.
Sulfate and other potassium salts from saline waters, Recovering potassium sodium. G. B. Burnham. No. 1,328,418; Jan. 20; v. 270; p. 386.
Sulfate from solution, Removal of sodium. F. A. Freeth and H. E. Cocksedge. No. 1,343,443; June 15; v. 275; p. 475.
Sulfate products, Retarder for calcium-. F. E. Culver. No. 1,330,058; Feb. 10; v. 271; p. 165.
Sulfates, Making ethyl. H. R. Curme. No. 1,339,947; May 11; v. 274; p. 319.
Sulfid, Manufacturing hydrogen. K. Ikeda. No. 1,351,755; Sept. 7; v. 278; p. 8.
Sulfite fiber and recovering sulfur dioxid, Manufacturing. J. P. V. Fagan, H. G. Spear, and E. B. Wolf. No. 1,327,666; Jan. 13; v. 270; p. 208.
Sulfite liquor, Apparatus for regulating the acidity of. J. B. Crandon. No. 1,341,361; May 25; v. 274; p. 716.
Sulfite liquor, Production of valuable organic and inorganic substances from waste. R. W. Strehlenert. No. 1,361,506; Dec. 7; v. 281; p. 106.
Sulfite liquor, Regulating the acidity of. J. B. Crandon. No. 1,340,649; May 18; v. 274; p. 509.
Sulfite, Making sodium. E. O. Barstow. No. 1,343,897; June 22; v. 275; p. 630.
Sulfite-waste-liquor preparations and making same. F. E. Coombs. No. 1,327,862; Jan. 13; v. 270; p. 245.
Sulfur chlorid, Making. R. E. Gegenheimer and M. Mauran. No. 1,341,423; May 25; v. 274; p. 728.
Sulfur color and manufacturing same from aloe resin. A. I. Applebaum. No. 1,346,153; July 13; v. 276; p. 224.
Sulfur color and manufacturing same from aloes. A. I. Applebaum. No. 1,346,154; July 13; v. 276; p. 224.
Sulfur composition. J. G. Lipman. No. 1,361,596; Dec. 7; v. 281; p. 125.
Sulfur dioxid, Composition for liberating. L. G. Wesson. No. 1,356,029; Oct. 19; v. 279; p. 403.
Sulfur dioxid from gases, Apparatus for recovering. A. H. Eustis. No. 1,341,115; May 25; v. 274; p. 668.
Sulfur dioxid from gases, Recovering. A. H. Eustis. No. 1,341,114; May 25; v. 274; p. 668.
Sulfur-dioxid-liberating composition. L. G. Wesson. No. 1,356,030; Oct. 19; v. 279; p. 403.
Sulfur dioxid, Producing. F. Lalst and F. F. Frick. No. 1,344,905; June 29; v. 275; p. 892.
Sulfur dioxid, Reducing. T. Shiomi. No. 1,359,114; Nov. 16; v. 280; p. 478.
Sulfur, Purification of. J. J. Hood. No. 1,331,645; Feb. 24; v. 271; p. 551.
Sulfur, Purification of. J. J. Hood. No. 1,331,646; Feb. 24; v. 271; p. 551.
Sulfur-retort. F. W. Becraft and A. L. Genter. No. 1,332,537; Mar. 2; v. 272; p. 70.
Sulfur-retort. W. E. Clifford and T. H. Green. No. 1,332,542; Mar. 2; v. 272; p. 71.
Sulfur-terpene-compound. W. B. Pratt. No. 1,349,909; Aug. 17; v. 277; p. 471.
Sulfuric acid, Making. C. J. Reed. No. 1,363,918; Dec. 28; v. 281; p. 716.
Sulky, Baby-. C. J. Black. No. 1,356,034; Oct. 19; v. 279; p. 404.
Sulky-rake. S. N. Canfield. No. 1,351,158; Aug. 31; v. 277; p. 822.
Sun-dial and compass. M. M. Madden. No. 1,343,515; June 15; v. 275; p. 489.
Sunshade. O. Maurer. No. 1,351,339; Aug. 31; v. 277; p. 859.
Superfloor structure. A. A. McPheeters. No. 1,341,187; May 25; v. 274; p. 683.
Superheat-limiting device. D. S. Jacobus. No. 1,328,997; Jan. 27; v. 270; p. 525.
Superheater. J. P. Badenhausen. No. 1,349,554; Aug. 17; v. 277; p. 403.
Superheater. F. O. Bynoe. No. 1,331,841; Feb. 24; v. 271; p. 588.
Superheater. C. W. Dake. No. 1,360,096; Nov. 23; v. 280; p. 718.
Superheater. E. H. Foster. No. 1,347,086; July 20; v. 276; p. 468.
Superheater. E. H. Foster. No. 1,357,493; Nov. 2; v. 280; p. 55.
Superheater. E. A. Geoghegan. No. 1,327,032; Jan. 6; v. 270; p. 29.
Superheater. J. S. Nichols. No. 1,340,074; May 11; v. 274; p. 342.
Superheater. J. Primrose. No. 1,359,916; Nov. 23; v. 280; p. 683.
Superheater-header. B. Broido. No. 1,328,364; Jan. 20; v. 270; p. 376.
Superheater-header. B. Broido. No. 1,338,972; May 4; v. 274; p. 59.
Superheater-pipe support. R. P. La Porte. No. 1,363,520; Dec. 28; v. 281; p. 639.
Superheater, Steam-. W. L. Riley. No. 1,344,211; June 22; v. 275; p. 690.
Superheater, Water-tube-boiler. B. Broido. No. 1,328,365; Jan. 20; v. 270; p. 377.
Superheating steam, Device for. G. Restucci. No. 1,348,895; Aug. 10; v. 277; p. 200.
Supervisory system. H. P. Clausen. No. 1,337,753; Apr. 20; v. 273; p. 523.
Support. J. Dottl. No. 1,335,881; Apr. 6; v. 273; p. 33.
Support. J. Dottl and H. G. Hart. No. 1,341,113; May 25; v. 274; p. 668.
Support. R. R. Hardy. No. 1,330,318; Feb. 10; v. 271; p. 218.
Support. T. H. Hawkes, Jr. No. 1,332,834; Mar. 2; v. 272; p. 126.
Support. E. F. Jaeger. No. 1,363,321; Dec. 28; v. 281; p. 601.
Support. A. A. Schneider. No. 1,329,552; Feb. 3; v. 271; p. 89.
Support. P. J. Young. No. 1,349,181; Aug. 10; v. 277; p. 256.
Support, Adjustable combination-. C. J. Jones. No. 1,361,733; Dec. 7; v. 281; p. 151.
Support and canopy, Combination. L. W. Hardy. No. 1,363,728; Dec. 28; v. 281; p. 679.
Support, Bar-. H. H. Lampert. No. 1,362,707; Dec. 21; v. 281; p. 441.
Support, Folding. H. Scheid. No. 1,361,409; Dec. 7; v. 281; p. 86.
Supporter. R. E. Uhl. No. 1,344,068; June 22; v. 275; p. 664.
Supporter. A. T. Van Alstyn. No. 1,328,406; Jan. 20; v. 270; p. 384.
Supporting-bracket. J. H. Fowler. No. 1,348,399; Aug. 3; v. 277; p. 58.
Supporting device. W. Kahl. No. 1,333,258; Mar. 9; v. 272; p. 257.
Supporting-stand. C. Shewalter. No. 1,363,020; Dec. 21; v. 281; p. 501.
Surf-mattress. H. R. Marshall. No. 1,332,678; Mar. 2; v. 272; p. 95.

Digitized by Google

Surface-bolt. A. C. Heintzelman. No. 1,354,641; Oct. 5; v. 279; p. 40.
Surface condenser. P. A. Bancel. No. 1,354,276; Sept. 28; v. 278; p. 645.
Surface condenser. R. N. Ehrhart. No. 1,353,641; Sept. 21; v. 278; p. 473.
Surface finish, Removing. D. P. Cleveland. No. 1,355,074; Oct. 5; v. 279; p. 124.
Surface-gage. J. A. Green. No. 1,361,848; Dec. 14; v. 281; p. 221.
Surface-indicator. R. G. Low. No. 1,334,915; Mar. 23; v. 272; p. 677.
Surface-treating device. A. A. Clarke. No. 1,352,582; Sept. 14; v. 278; p. 203.
Surface-treating machine. A. A. Clarke. No. 1,352,583; Sept. 14; v. 278; p. 203.
Surface-treating machine. A. A. Clarke. No. 1,356,337; Oct. 19; v. 279; p. 465.
Surface-treating device. A. A. Clarke. No. 1,356,338; Oct. 19; v. 279; p. 465.
Surface-treating machine. A. A. Clarke. No. 1,356,339; Oct. 19; v. 279; p. 465.
Surface-treating machine. A. A. Clarke. No. 1,363,312; Dec. 28; v. 281; p. 599.
Surface-treating machines, Handle attachment for. A. A. Clarke. No. 1,352,581; Sept. 14; v. 278; p. 203.
Surface - working machine. S. F. Anderson. No. 1,331,451; Feb. 17; v. 271; p. 494.
Surfaces by attrition, Apparatus for producing irregular. D. C. Fisher. No. 1,335,102; Mar. 30; v. 272; p. 772.
Surfaces, Protecting and decorating. J. F. O'Byrne. No. 1,331,822; Feb. 24; v. 271; p. 585.
Surfacing. J. Hamil. No. 1,361,763; Dec. 7; v. 281; p. 157.
Surgeon's plaster-knife. H. B. Philips. No. 1,336,876; Apr. 6; v. 273; p. 127.
Surgical appliance. B. Douglas. No. 1,356,519; Oct. 26; v. 279; p. 547.
Surgical appliance. L. O. Roberts. No. 1,340,501; May 18; v. 274; p. 481.
Surgical appliance for women. J. J. Martinka. No. 1,328,176; Jan. 13; v. 270; p. 304.
Surgical bandage heater and wringer. W. Jennings. No. 1,340,772; May 18; v. 274; p. 532.
Surgical device. A. H. Fleck. No. 1,334,237; Mar. 16; v. 272; p. 501.
Surgical dressings, Aseptic package for. H. W. Allport. No. 1,356,331; Oct. 19; v. 279; p. 463.
Surgical engine. G. D. Heck. No. 1,361,578; Dec. 7; v. 281; p. 121.
Surgical instrument. F. and A. Lo Giudice. No. 1,359,164; Nov. 16; v. 280; p. 487.
Surgical instrument. H. Smit. (Reissue.) No. 14,928; July 20; v. 276; p. 547.
Surgical instruments, Combined pocket-case and steriliser for. A. H. de Goenaga. No. 1,348,938; Aug. 10; v. 277; p. 208.
Surgical splint. L. H. Crawford and J. H. Prante. No. 1,362,398; Dec. 14; v. 281; p. 329.
Surgical splint. J. J. Renois. No. 1,346,463; July 13; v. 276; p. 286.
Surgical splint. F. W. Schilling. No. 1,328,598; Jan. 20; v. 270; p. 421.
Surgical tourniquet. R. Maeda. No. 1,338,578; Apr. 27; v. 273; p. 748.
Surplus material, Machine for removing. B. D. Bohanan. No. 1,351,153; Aug. 31; v. 277; p. 821.
Survey-post. A. W. Albrecht. No. 1,345,111; June 29; v. 275; p. 930.
Surveying instrument. H. C. Watson. No. 1,348,258; Aug. 3; v. 277; p. 26.
Surveying-instrument carrier. C. G. Hastings. No. 1,344,947; June 29; v. 275; p. 899.
Surveying instruments, Locking device for. C. Heinrich. No. 1,341,210; May 25; v. 274; p. 687.
Suspender-link. J. F. Bear. No. 1,338,850; May 4; v. 274; p. 37.
Suspender-link J. F. Bear. No. 1,341,033; May 25; v. 274; p. 653.
Suspender, Stocking-. P. Pugniet. No. 1,348,444; Aug. 3; v. 277; p. 62.
Suspenders. W. D. Corder. No. 1,351,553; Aug. 31; v. 277; p. 901.
Suspenders. W. D. Corder. No. 1,356,341; Oct. 19; v. 279; p. 466.
Suspenders. O. Hammerstein. No. 1,360,290; Nov. 30; v. 280; p. 824.
Suspenders. N. W. McConnell. No. 1,352,903; Sept. 14; v. 278; p. 268.
Suspenders. E. Segel. No. 1,359,754; Nov. 23; v. 280; p. 650.
Suspenders. B. Stacy. No. 1,345,969; July 6; v. 276; p. 127.
Suspenders. W. H. Stevens. No. 1,361,113; Dec. 7; v. 281; p. 27.
Suspenders. V. R. Strader. No. 1,356,944; Oct. 26; v. 279; p. 630.
Suspenders. J. Weille. No. 1,363,028; Dec. 21; v. 281; p. 503.
Suspender-slide. C. E. Peterson. No. 1,330,339; Feb. 10; v. 271; p. 217.
Suspender-tab. P. Alkire. No. 1,331,406; Feb. 17; v. 271; p. 485.
Suspenders and belt, Combination. T. H. McQuinn. No. 1,341,568; May 25; v. 274; p. 756.
Suspenders and brace, Combined multiple. H. A. Heath. No. 1,327,041; Jan. 6; v. 270; p. 31.
Suspenders, Invisible. M. H. Aved. No. 1,356,955; Oct. 26; v. 279; p. 632.
Suspenders, Invisible. A. F. Young. No. 1,342,704; June 8; v. 275; p. 266.
Suspensible seat. J. A. Eberle. No. 1,351,746; Sept. 7; v. 278; p. 6.
Suspension device. A. Jeantin. No. 1,345,089; June 29; v. 275; p. 926.
Suspensory. J. C. Fowler. No. 1,350,863; Aug. 24; v. 277; p. 702.
Suspensory. S. A. Marker. No. 1,347,864; July 27; v. 276; p. 679.
Swagger-stick. J. M. Callahan. No. 1,339,162; May 4; v. 274; p. 95.
Swagger-stick. J. M. Callahan. No. 1,339,257; May 4; v. 274; p. 112.
Swagger-stick. E. L. Yungk. No. 1,340,746; May 18; v. 274; p. 527.
Swaging-machine. A. A. Arnold. No. 1,350,634; Aug. 24; v. 277; p. 659.
Swaging-machine. T. A. Edison. (Reissue.) No. 14,798; Feb. 3; v. 271; p. 131.
Swaging-machine for making U-shaped pipe-bends. C. A. W. Brandt and A. J. Langelier. No. 1,339,054; May 4; v. 274; p. 75.
Swatter, Insect-. A. Smith, Jr. No. 1,342,974; June 8; v. 275; p. 320.
Sweatband. C. M. Tipograph. No. 1,357,263; Nov. 2; v. 280; p. 12.
Sweep-rake. G. G. Hunt. No. 1,354,558; Oct. 5; v. 279; p. 22.
Sweeper. F. L. Collis. No. 1,337,199; Apr. 20; v. 273; p. 418.
Sweeper. B. Frame. No. 1,336,849; Apr. 6; v. 273; p. 122.
Sweeper. G. W. Rauch. No. 1,333,677; Mar. 16; v. 272; p. 397.
Sweeper, Carpet-. J. Czechowicz. No. 1,332,429; Mar. 2; v. 272; p. 49.
Sweeper, Road-. C. E. Barrie. No. 1,335,637; Mar. 30; v. 272; p. 871.
Sweeper, Street-. D. M. Todd. No. 1,348,605; Aug. 3; v. 277; p. 92.
Sweeper, Suction-. H. E. Hoover. No. 1,334,757; Mar. 23; v. 272; p. 646.
Sweeper, Suction-. W. V. Orr. No. 1,346,972; July 20; v. 276; p. 446.
Sweeper, Vacuum-. C. P. Brockway. No. 1,361,563; Dec. 7; v. 281; p. 118.
Sweeper, Vacuum carpet-. C. W. Davis. No. 1,332,432; Mar. 2; v. 272; p. 50.
Sweepers, Brush for carpet-. G. R. Merriman. No. 1,350,664; Aug. 24; v. 277; p. 665.
Sweeping device. W. M. Duncan. No. 1,357,693; Nov. 2; v. 280; p. 93.
Sweeping-machine. G. E. Wason. No. 1,356,180; Oct. 19; v. 279; p. 434.
Sweeping machine, Street-. A. Schroeder. No. 1,340,133; May 11; v. 274; p. 354.
Sweeping streets. H. K. Potter. No 1,328,237; Jan. 13; v. 270; p. 316.
Sweet-potato-curing house. E. J. Iles and O. . Hastings. No. 1,353,752; Sept. 21; v. 278; p. 495.
Sweet-potato-curing house. E. M. Woods. No. 1,327,130; Jan. 6; v. 270; p. 47.
Swift. L. S. James. No. 1,354,565; Oct. 5; v. 279; p. 23.
Swimming apparatus. M. Couchmin. No. 1,361,687; Dec. 7; v. 281; p. 142.
Swimming apparatus. S. Cziczirlga. No. 1,329,073; Jan. 27; v. 270; p. 539.
Swimming apparatus. W. Webster. No. 1,341,290; May 25; v. 274; p. 702.
Swimming appliance. G. W. Bechtel. No. 1,342,619; June 8; v. 275; p. 249.
Swimming-course. J. W. Lippincott. No. 1,331,270; Feb. 17; v. 271; p. 460.
Swimming device. O. Grundmann. No. 1,340,892; May 25; v. 274; p. 625.
Swimming device. N. P. Johnston. No. 1,335,687; Mar. 30; v. 272; p. 881.
Swimming device. J. A. Kaye. No. 1,329,660; Feb. 3; v. 271; p. 59.
Swimming device. T. A. Kuznetzoff. No. 1,349,891; Aug. 17; v. 277; p. 468.
Swine-feeding apparatus. O. W. Hiner and D. C. and E. A. Farnham, Jr. No. 1,346,026; July 6; v. 276; p. 138.
Swing. C. D. Clipfell and G. Manikowske. No. 1,335,938; Apr. 6; v. 273; p. 44.
Swing. D. I. Brown. No. 1,363,453; Dec. 28; v. 281; p. 625.
Swing. J. Jochumsen and G. A. Netcott. No 1,345,333; June 29; v. 275; p. 974.
Swing. P. S. Medart. No. 1,340,904; May 25; v. 274; p. 627.

Digitized by Google

Alphabetical list of inventions—Continued.

Swing. W. E. Potter. No. 1,355,260; Oct. 12; v. 279; p. 214.
Swing. P. W. Radden. No 1,346,973; July 20; v. 276; p. 446.
Swing. F. Schwarz. No. 1,352,317; Sept. 7; v. 278; p. 116.
Swing. A. A. Wall. No. 1,356,418: Oct. 19; v. 279; p. 480.
Swing, Amusement-. J. A. Dary. No. 1,330,807; Feb. 10; v. 271; p. 211.
Swing and couch, Combination. L. I. McDevitt. No. 1,330,204; Feb. 10; v. 271; p. 192.
Swing-chair. N. H. Miller. No. 1,328,181; Jan. 13; v. 270; p. 305.
Swing, Chair-. J. W. Sparks. No. 1,339,296; May 4; v. 274; p. 119.
Swing, Convertible. E. B. Black. No. 1,335,360; Mar. 30; v. 272; p. 820.
Swing, Lawn-. G. H. Bugenhagen. No. 1,360,495; Nov. 30; v. 280; p. 864.
Swing, Lawn-. H. C. Gallipp. No. 1,343,124; June 8; v. 275; p. 350.
Swing, Playground-. P. S. Medart. No. 1,345,885; July 6; v. 276; p. 11.
Swing, Portable baby-. H. T. and E. J. Kingsbury. No. 1,361,469: Dec. 7; v. 281; p. 99.
Swing, Wagon-. A. B. Foans. No. 1,335,572; Mar. 30; v. 272; p. 859.
Swinging gate. M. Reh. No. 1,344,820; June 29; v. 275; p. 876.
Swingletree. W. F. Bosse. No. 1,347,362; July 20; v. 276; p. 522.
Swingletree. W. E. Jones. No. 1,335,971; Apr. 6; v. 273; p. 51.
Swingletree and evener, Combined. F. N. White. No. 1,334,203; Mar. 16; v. 272; p. 495.
Swingletree-clip. D. F. Laing. No. 1,352,049; Sept. 14; v. 278; p. 296.
Switch: *See*—
Air-break switch.
Antenna-switch.
Automatic switch.
Automatic selecting-switch.
Battery-switch.
Centrifugal switch.
Control-switch.
Controlling-switch.
Cross-bar switch.
Cut-off switch.
Double-throw switch.
Electric switch.
Electric-circuit switch.
Electric-light switch.
Electric mercury-switch.
Electric safety-switch.
Electric wall-switch.
Electrical switch.
Electromagnetic switch.
Electromechanical switch.
Emergency-switch.
Feed-trough switch.
Fire-alarm switch.
Foot-switch.
Foot-operated switch.
Fuse-switch.
High-tension switch.
Ignition-switch.
Ignition and lighting switch.
Ignition-controlling switch.
Key-switch.
Knife-switch.
Knife-blade switch.
Lamp-switch.
Lock-switch.
Locking-switch.
Magneto and semaphore switch.
Measuring - instrument switch.
Motor-starting switch.
Motor-stopping switch.
Multiple switch.
Multisocket switch.
Overhead switch.
Pedal-switch.
Plug and socket switch.
Quick-action switch.
Quick-break switch.
Railway-switch.
Railway-track switch.
Retarded switch.
Rotary switch.
Rotary snap-switch.
Safety-switch.
Safety door interlocking switch.
Section-switch.
Selecting-switch.
Selector-switch.
Service-switch.
Snap-switch.
Socket-switch.
Thermal switch.
Thermal time-switch.
Thermodynamic alloy - controlled switch.
Thermostatic switch.
Throttle-switch.
Time-switch.
Time-controlled switch.
Toy switch.
Track-switch.
Trolley-switch.
Tumbler-switch.
Wall-switch.
Switch. F. A. Barrett, Jr. No. 1,350,916; Aug. 24; v. 277; p. 712.
Switch. J. M. Brown. No. 1,332,025; Feb. 24; v. 271; p. 623.
Switch. E. A. Fagerlund. No. 1,351,161; Aug. 31; v. 277; p. 822.
Switch. G. Gallo and F. Villarboito. No. 1,352,889; Sept. 14; v. 278; p. 265.
Switch. G. H. Hart. No. 1,335,499; Mar. 30; v. 272; p. 845.
Switch. C. T. Henderson. No. 1,342,674; June 8; v. 275; p. 260.
Switch. P. M. Hengstenberg. No. 1,332,040; Feb. 24; v. 271; p. 626.
Switch. J. W. Kimmerly. No. 1,358,160; Nov. 9; v. 280; p. 245.
Switch. S. E. Perkins. No. 1,340,403; May 18; v. 274; p. 462.
Switch. S. H. Roske. No. 1,330,954; Feb. 17; v. 271; p. 402.
Switch. J. V. Schafer. No. 1,359,435; Nov. 16; v. 280; p. 542.
Switch. J. Schneider. No. 1,343,793; June 15; v. 275; p. 545.
Switch. F. H. Viets. No. 1,357,750; Nov. 2; v. 280; p. 104.
Switch. F. A. Wagner and F. H. Hartzell. No. 1,361,937; Dec. 14; v. 281; p. 238.
Switch. T. Zimmerman. Nos. 1,362,661–62; Dec. 21; v. 281; p. 432.
Switch-adjustment housing. R. R. Baker. No. 1,344,848; June 29; v. 275; p. 881.
Switch and permutation-lock, Combined. T. Barnes. No. 1,329,693; Feb. 3; v. 271; p. 65.
Switch and receptacle, Combination safety. J. Lofgren. No. 1,347,345; July 20; v. 276; p. 519.
Switch-box. D. H. Hayden. No. 1,328,993; Jan. 27; v. 270; p. 524.
Switch-box, Electric. F. G. White. No. 1,328,606; Jan. 20; v. 270; p. 422.
Switch-box, Indicating and testing supply. P. H. Bartlett. No. 1,349,651; Aug. 17; v. 277; p. 422.
Switch-box mounting. N. T. Clements. No. 1,362,674; Dec. 21; v. 281; p. 435.
Switch-box, Safety. E. M. Coffin. No. 1,361,684; Dec. 7; v. 281; p. 142.
Switch-box support. S. G. Johnson. No. 1,346,895; July 20; v. 276; p. 430.
Switch construction. L. P. Hutt. No. 1,342,999; June 8; v. 275; p. 325.
Switch construction, Inclosed-. H. M. Broadwell. No. 1,353,021; Sept. 14; v. 278; p. 291.
Switch-contact. C. H. Rippl. No. 1,334,554; Mar. 23; v. 272; p. 608.
Switch-controlling indicator. F. Bechoff. No. 1,328,078; Jan. 13; v. 270; p. 285.
Switch-controlling system. A. E. Lundell. No. 1,334,105; Mar. 16; v. 272; p. 477.
Switch device, Electrical. W. F. Hessel. (Reissue.) No. 14,950. Sept. 21; v. 278; p. 507.
Switch device, Non-arcing commutating-. L. Paulero. No. 1,362,349; Dec. 14; v. 281; p. 319.
Switch, Double-throw. H. F. Krantz. No. 1,363,658; Dec. 28; v. 281; p. 665.
Switch face-plate and lock. H. Kaplan. No. 1,337,187; Apr. 13; v. 273; p. 882.
Switch for main and auxiliary circuits, Automatic. J. J. Divo. No. 1,354,897; Oct. 5; v. 279; p. 90.
Switch-frog. L. Horvath and T. J. Blackburn. No. 1,342,332; June 1; v. 275; p. 140.
Switch-handle. H. U. Badeau. No. 1,341,611; May 25; v. 274; p. 764.
Switch-handle. G. B. Thomas. No. 1,353,675; Sept. 21; v. 278; p. 480.
Switch handle, Snap-. F. P. Gates. No. 1,330,628; Feb. 10; v. 271; p. 271.
Switch-lock. J. L. Burton. No. 1,345,580; July 6; v. 276; p. 50.
Switch-lock. P. H. Myers. No. 1,348,729; Aug. 3; v. 277; p. 115.
Switch-lock. L. B. Stone. No. 1,351,973; Sept. 7; v. 278; p. 52.
Switch-lock. B. P. Swyers. No. 1,339,302; May 4; v. 274; p. 120.
Switch-locking safety-panel. H. F. Krantz. No. 1,342,550; June 8; v. 275; p. 236.
Switch mechanism. M. Cowen. No. 1,334,437; Mar. 23; v. 272; p. 586.
Switch mechanism. A. A. Gazda. No. 1,354,181; Sept. 28; v. 278; p. 625.
Switch mechanism. R. T. Kintzing. No. 1,358,754: Nov. 16; v. 280; p. 410.
Switch mechanism. H. F. Krantz. No. 1,342,548; June 8; v. 275; p. 236.
Switch mechanism. N. E. Salsich. No. 1,341,246; May 25; v. 274; p. 694.
Switch mechanism, Automatic flying-. T. J. Jones. No. 1,354,403; Sept. 28; v. 278; p. 670.
Switch mechanism, Safety-. H. F. Krantz. No. 1,342,219; June 1; v. 275; p. 120.
Switch mechanism with door-interlock. H. F. Krantz. No. 1,342,549; June 8; v. 275; p. 236.
Switch-operating device. J. E. L. Blackmore. No. 1,363,558; Dec. 28; v. 281; p. 647.
Switch-operating mechanism. H. M. Cosey. No. 1,350,786; Aug. 24; v. 277; p. 689.
Switch-operating mechanism. E. L. Gale, Sr. No. 1,330,860; Feb. 17; v. 271; p. 382.
Switch-operating mechanism. T. H. Schutt. No. 1,341,764; June 1; v. 275; p. 30.
Switch-operating mechanism. M. H. Spielman. No. 1,356,663; Oct. 26; v. 279; p. 575.
Switch or receptacle box. W. J. Newton. No. 1,345,502; July 6; v. 276; p. 34.
Switch or receptacle box. W. J. Newton. No. 1,345,503; July 6; v. 276; p. 35.
Switch-point-actuating mechanism. J. Klewanich. No. 1,362,629; Dec. 21; v. 281; p. 425.
Switch-point protector. J. H. Lynch. No. 1,341,330; May 25; v. 274; p. 710.
Switch-points, Locking mechanism for. N. Rösholt. No. 1,327,358; Jan. 6; v. 270; p. 89.
Switch-points, Retaining device for. R. D. Rose. No. 1,333,096; Mar. 9; v. 272; p. 227.
Switch-stand. F. C. Anderson. No. 1,360,862; Nov. 30; v. 280; p. 936.

Digitized by Google

Switch-stand. R. T. Butler and H. E. Thompson. No. 1,348,848; Aug. 10; v. 277; p. 191.
Switch-stand. W. D. Ingle. No. 1,363,653; Dec. 28; v. 281; p. 664.
Switch-stand. R. E. Yolton. No. 1,357,758; Nov. 2; v. 280; p. 106.
Switch-stand, Automatically-locking. L. B. Martin. No. 1,348,292; Aug. 3; v. 277; p. 32.
Switch-stand lock, Railway-. S. Nishimura. No. 1,331,719; Feb. 24; v. 271; p. 565.
Switch-stands, Automatic lock for. G. A. Law. No. 1,358,376; Nov. 9; v. 280; p. 289.
Switch-tongue-holding device. F. M. Crossley. No. 1,360,270; Nov. 30; v. 280; p. 820.
Switches, Actuating member for. E. G. K. Anderson. No. 1,349,251; Aug. 10; v. 277; p. 271.
Switches, Safety device for point-. L. Dunn. No. 1,337,054; Apr. 13; v. 273; p. 317.
Switches, Safety device for point-. L. Dunn. No. 1,346,597; July 13; v. 276; p. 312.
Switchboard. A. M. Haubrich. No. 1,356,622; Oct. 26; v. 279; p. 566.
Switchboard. F. A. Muschenheim and F. W. Blasdale. No. 1,350,328; Aug. 24; v. 277; p. 598.
Switchboard apparatus. G. D. Wolf. No. 1,330,565; Feb. 10; v. 271; p. 259.
Switchboard, Automatic-circuit-breaker. J. P. Hayes and J. E. Barnhart. No. 1,348,359; Aug. 3; v. 277; p. 45.
Switchboard, Multiple-unit safety-. H. F. Krantz. No. 1,342,546; June 8; v. 275; p. 235.
Switchboard, Multiple-unit safety-. H. F. Krantz. No. 1,342,547; June 8; v. 275; p. 236.
Switchboard-support. I. T. Swartz. No. 1,360,247; Nov. 23; v. 280; p. 747.
Switchboard, Telephone-. A. F. F. Gilson. No. 1,330,258; Feb. 10; v. 271; p. 202.
Switching apparatus. F. Aldendorff. No. 1,348,835; Aug. 3; v. 277; p. 135.
Switching apparatus. W. M. Scott. No. 1,340,918; May 25; v. 274; p. 630.
Switching apparatus. W. M. Scott. No. 1,361,912; Dec. 14; v. 281; p. 233.
Switching device. J. Slepian. No. 1,357,257; Nov. 2; v. 280; p. 11.
Switching device, Electromagnetic. W. Willenbruch. No. 1,330,507; Feb. 10; v. 271; p. 248.
Switching mechanism, Selective. R. G. Richardson. No. 1,344,822; June 29; v. 275; p. 876.
Swivel device. C. S. Barrell. No. 1,327,013; Jan. 6; v. 270; p. 26.
Swivel device. C. S. Barrell. No. 1,358,814; Nov. 16; v. 280; p. 422.
Swivel-head. C. H. Schurr and E. J. Lees; No 1,355,855; Oct. 19; v. 279; p. 369.
Swivel-leg, Collapsible. W. G. Gagné. No. 1,342,951; June 8; v. 275; p. 316.
Swivel-plug connector. E. Dewald, Sr. No. 1,347,577; July 27; v. 276; p. 622.
Swivel, Rotary. V. York. No. 1,357,430; Nov. 2; v. 280; p. 43.
Synchronizer. M. L. Severy. No. 1,332,414; Mar. 2; v. 272; p. 46.
Synchronizer. M. L. Severy. No. 1,356,226; Oct. 19; v. 279; p. 443.
Synchronizing apparatus. L. O. Kozar. No. 1,362,876; Dec. 21; v. 281; p. 474.
Synchronizing system. C. G. Spencer. No. 1,333,000; Mar. 9; v. 272; p. 209.
Syringe. A. Chance. No. 1,331,805; Feb. 24; v. 271; p. 582.
Syringe. C. E. A. Gronbech. No. 1,348,796; Aug. 3; v. 277; p. 128.
Syringe. G. V. Harriman. No. 1,348,412; Aug. 3; v. 277; p. 56.
Syringe. J. MacGregor. No. 1,331,271; Feb. 17; v. 271; p. 460.
Syringe. R. L. Mott. No. 1,352,806; Sept. 7; v. 278; p. 114.
Syringe. E. Neil. No. 1,343,787; June 15; v. 275; p. 543.
Syringe. G. T. Pearsons. No. 1,337,467; Apr. 20; v. 273; p. 468.
Syringe. O. O. R. Schwidetzky. No. 1,349,474; Aug. 10; v. 277; p. 314.
Syringe, Double-current. J. K. Mitchell. No. 1,327,167; Jan. 6; v. 270; p. 54.
Syringe, Hydrometer-. M. E. Moeller. No. 1,331,165; Feb. 17; v. 271; p. 441.
Syringe, Hypodermic. R. H. Riethmüller. No. 1,328,208; Jan. 13; v. 270; p. 809.
Syringe, Injection-. N. Kitaoka. No. 1,363,128; Dec. 21; v. 281; p. 522.
Syringe with protecting-hood, Injection-. G. T. Court. No. 1,336,730; Apr. 13; v. 273; p. 254.
Syringes, Sterilizer attachment for hypodermic. G. B. Young. No. 1,336,061; Apr. 6; v. 273; p. 67.
Syrup-can crate. B. Valley. No. 1,359,451; Nov. 16; v. 280; p. 545.
Syruper. A. R. Thompson. No. 1,355,015; Oct. 5; v. 279; p. 112.
Syrupers, Filling-valve for. A. R. Thompson. No. 1,355,016; Oct. 5; v. 279; p. 112.
System of control. R. E. Hellmund. No. 1,363,647; Dec. 28; v. 281; p. 663.
Tabbing device. W. T. Cole. No. 1,359,032; Nov. 16; v. 280; p. 463.
Table: *See*—

Automobile auxiliary table.	Ore-concentrating table.
Baby's chair-table.	Osteopathic table.
Camp-table.	Oven rotary table.
Chiropractic table.	Printer's table.
Chiropractor's table.	Reading-table.
Computing-table.	Rivet-sorting table.
Concentrating-table.	Roller-table.
Display-table.	Rotary filter-table.
Drawing-table.	Self-serving table.
Electric-power table.	Service-table.
Exposure-table.	Serving-table.
Extensible table.	Shaking-table.
Extension-table.	Shirt-folding table.
Film mending and inspecting table.	Steam-table.
Folding table.	Talking-machine turn-table.
Folding universal table.	Tilting table.
Game-table.	Tire-trimming table.
Invalid's table.	Tonneau-table.
Ironing-table.	Treatment-table.
Kitchen-table.	Turntable.
Knockdown table.	Veterinary surgical table.
Lunch-room table.	Work-table.
Operating-table.	Work-supporting table.

Table. E. H. Angle. No. 1,359,479; Nov. 23; v. 280; p. 596.
Table. C. Deuce. No. 1,353,728; Sept. 21; v. 278; p. 491.
Table. B. Zimmer. No. 1,358,353; Nov. 9; v. 280; p. 284.
Table and book-stand, Combined. W. W. Killion. No. 1,345,197; June 29; v. 275; p. 947.
Table and chairs, Combined pendulous. V. N. Dmitrieff. No. 1,328,727; Jan. 20; v. 270; p. 444.
Table and gage, Combined work-. J. W. Vaughan. No. 1,336,799; Apr. 13; v. 273; p. 268.
Table and ironing-board. G. W. Hudson. No. 1,336,433; Apr. 13; v. 273; p. 197.
Table and ironing-board, Combination. H. Hoeglund. No. 1,342,109; June 1; v. 275; p. 98.
Table and ironing-board, Combined. W. W. Anderson. No. 1,342,660; June 8; v. 275; p. 256.
Table and ironing-board, Combined kitchen-. A. P. Dulgeroff. No. 1,330,851; Feb. 17; v. 271; p. 381.
Tables and making same, Bed for game-. P. S. Lietz. No. 1,328,332; Jan. 20; v. 270; p. 370.
Table and receptacle, Combination. J. Sokač and A. Semko. No. 1,341,083; May 25; v. 274; p. 662.
Table and seat, Combined. W. Kornaszewski. No. 1,342,387; June 1; v. 275; p. 150.
Table and single-spindle shaper, Combined saw-. N. Josias. No. 1,327,390; Jan. 6; v. 270; p. 95.
Table and transportation-base for office accessories. Combined. W. F. Streich. No. 1,360,052; Nov. 23; v. 280; p. 709.
Table and trunk, Combined. C. M. Young. No. 1,334,580; Mar. 23; v. 272; p. 613.
Table attachment. O. P. Svensson. No. 1,356,477; Oct. 19; v. 279; p. 491.
Table corner-brace. P. White. No. 133,202; Apr. 27; v. 273; p. 677.
Table-cover. J. G. Sultanaki. No. 1,332,776; Mar. 2; v. 272; p. 115.
Table-drawer. L. O. Johnson. No. 1,345,194; June 29; v. 275; p. 946.
Table for gravitational separation of comminuted material, Riffled pneumatic concentrating-. C. W. Eccleston. No. 1,343,497; June 15; v. 275; p. 485.
Table for use of chiropractors, Portable adjusting-. S. E. Kaufman. No. 1,338,785; May 4; v. 274; p. 16.
Table-heater, Electric. J. K. Soden. No. 1,332,526; Mar. 2; v. 272; p. 68.
Table implement. E. de Teixeira. No. 1,353,090; Sept. 14; v. 278; p. 304.
Table-light, fan, and phonograph, Combined. P. R. Gonsky. No. 1,359,053; Nov. 16; v. 280; p. 467.
Table or support, Meat-inspection. D. E. Dufresne and W. Adamson. No. 1,333,476; Mar. 9; v. 272; p. 298.
Table-pad. M. C. Usinger. No. 1,333,884; Mar. 16; v. 272; p. 435.
Table-supporting mechanism. G. A. Barber. No. 1,346,586; July 13; v. 276; p. 310.
Table-top. A. N. Clough. No. 1,336,818; Apr. 13; v. 273; p. 271.
Table-top, Collapsible. R. A. Gillies. No. 1,336,954; Apr. 13; v. 273; p. 297.
Table utensil, Child's. E. G. Thomas. No. 1,347,307; July 20; v. 276; p. 511.
Tables, Centering apparatus for roller-. H. A. Lewis. No. 1,360,769; Nov. 30; v. 280; p. 918.
Tables, Head-motion for concentrating-. H. Bolthoff. No. 1,332,595; Mar. 2; v. 272; p. 81.
Tables, Head-motion for concentrating-. N. Mossberg. No. 1,335,519; Mar. 30; v. 272; p. 849.
Tables, Manipulator for shear-. F. C. Biggert, Jr. No. 1,340,595; May 18; v. 274; p. 499.

Digitized by Google

Alphabetical list of inventions—Continued.

Tables, Serving apparatus for dining-. L. Rod. No. 1,339,525; May 11; v. 274; p. 288.
Tables, Tilting mechanism for concentrating-. W. A. Butchart. No. 1,345,662; July 6; v. 276; p. 66.
Tables, Transmitter-guard for power-. P. Hleb. No. 1,339,758; May 11; v. 274; p. 283.
Tableware-supporting device. G. Brain. No. 1,333,380; Mar. 9; v. 272; p. 280.
Tablet. C. V. Hayes. No. 1,343,778; June 15; v. 275; p. 542.
Tablet. U. C. Upjohn. No. 1,361,118; Dec. 7; v. 281; p. 28.
Tablet, Poison-. C. T. Davis. No. 1,335,488; Mar. 30; v. 272; p. 843.
Tablet, Poison-. C. T. Davis. No. 1,349,326; Aug. 10; v. 277; p. 285.
Tablet-press. B. S. Schoenkerman. No. 1,344,091; June 22; v. 275; p. 667.
Tablet, Writing-. J. Frank. No. 1,337,835; Apr. 20; v. 273; p. 538.
Tabular and statistical data, Means for compiling. H. E. Soper. No. 1,351,692; Aug. 31; v. 277; p. 928.
Tabulating bonds and other securities, Device for. J. A. Crowley. No. 1,347,325; July 20; v. 276; p. 515.
Tabulating-machine. J. W. Bryce. No. 1,335,274; Mar. 30; v. 272; p. 803.
Tabulating-machine. J. E. Wright. No. 1,333,890; Mar. 16; v. 272; p. 436.
Tabulating machine, Automatic pneumatic card-. A. S. Trew. No. 1,350,850; Aug. 24; v. 277; p. 700.
Tabulating-machine, Mechanical. A. Knistrom. No. 1,335,285; Mar. 30; v. 272; p. 805.
Tabulating mechanism. H. A. Foothorap. No. 1,349,824; Aug. 17; v. 277; p. 455.
Tachometer. V. Olhovsky. No. 1,327,629; Jan. 13; v. 270; p. 201.
Tachometer, Centrifugal. J. W. Jones. No. 1,330,120; Feb. 10; v. 271; p. 177.
Tachometer, Fire-control. J. L. Routin. No. 1,345,699; July 6; v. 276; p. 73.
Tack-feeding mechanism. A. Perri. No. 1,341,821; June 1; v. 275; p. 41.
Tack-holder. U. G. Sweeney. No. 1,344,157; June 22; v. 275; p. 680.
Tack-holder. J. W. Whipp. No. 1,327,749; Jan. 13; v. 270; p. 224.
Tack-loader. J. A. Mackey. No. 1,329,787; Feb. 3; v. 271; p. 82.
Tack, Thumb-. Y. Kinoshita. No. 1,338,988; May 4; v. 274; p. 62.
Tack, Thumb-. P. C. Nestor. (Reissue.) No. 14,810; Mar. 2; v. 272; p. 134.
Tack, Upholsterer's. S. M. Bliss. No. 1,336,273; Apr. 6; v. 273; p. 107.
Tackle-block. G. Hilgers. No. 1,356,363; Oct. 19; v. 279; p. 470.
Tackle, Fishing-. C. W. Dice. No. 1,362,765; Dec. 21; v. 281; p. 452.
Tag. M. B. Behrman. No. 1,359,951; Nov. 23; v. 280; p. 689.
Tag. B. Gordon. No. 1,353,952; Sept. 28; v. 278; p. 578.
Tag, Animal-. S. R. Nichols. No. 1,347,868; July 27; v. 276; p. 680.
Tag, Automobile identification-. J. W. Williams. No. 1,340,998; May 25; v. 274; p. 646.
Tag, Bottle-. W. J. Tanzey. No. 1,350,890; Aug. 24; v. 277; p. 707.
Tag bracket, License-. G. L. Dewey. No. 1,357,033; Oct. 26; v. 279; p. 647.
Tag-fastener. J. L. Lewis. No. 1,330,640; Feb. 10; v. 271; p. 273.
Tag-fastener. F. W. Newton. No. 1,360,433; Nov. 30; v. 280; p. 851.
Tag-holder. A. Malling. No. 1,357,645; Nov. 2; v. 280; p. 84.
Tag-holder. C. Mehl. No. 1,333,434; Mar. 9; v. 272; p. 290.
Tag-holder. F. G. Shuman. No. 1,347,233; July 20; v. 276; p. 496.
Tag holder and connector. A. W. Johnson. No. 1,348,281; Aug. 3; v. 277; p. 30.
Tag-holder, Coop. O. Polkingharn. No. 1,335,077; Mar. 30; v. 272; p. 767.
Tag holder, Price-. H. W. Behrens. No. 1,341,491; May 25; v. 274; p. 742.
Tag, Identification-. G. T. Spaulding. No. 1,335,995; Apr. 6; v. 273; p. 55.
Tag, Laundry-. H. H. Quehl. No. 1,363,349; Dec. 28; v. 281; p. 606.
Tag, Pin-. G. W. Henry, Jr. No. 1,358,546; Nov. 9; v. 280; p. 323.
Tag, Price-. S. B. Bedinger. No. 1,337,586; Apr. 20; v. 273; p. 491.
Tag, Reinforced. J. J. Collins. No. 1,355,940; Oct. 19; v. 279; p. 385.
Tag, Service-. W. H. Bogardus. No. 1,332,421; Mar. 2; v. 272; p. 47.
Tag, Shipping-. D. A. Cuke and F. J. Twilley. No. 1,347,212; July 20; v. 276; p. 492.
Tag, Shipping-. L. F. Troja. (Reissue.) No. 14,883; June 15; v. 275; p. 565.

Tag-stringing machine. L. A. McGrath. No. 1,351,000; Aug. 24; v. 277; p. 729.
Tag-threading machine. F. C. Suchy. No. 1,343,290; June 15; v. 275; p. 445.
Tag, Watch-repair. H. Paulson. No. 1,345,874; July 6; v. 276; p. 107.
Tags, Light for automobile license-. J. E. Thompson and F. A. Melton. No. 1,360,821; Nov. 30; v. 280; p. 928.
Tail-board, Grain-saving. C. E. Brown. No. 1,355,383; Oct. 12; v. 279; p. 237.
Tail-light signal. J. E. Keppel. No. 1,352,279; Sept. 7; v. 278; p. 108.
Tailor's implement. A. Lipner. No. 1,346,832; July 20; v. 276; p. 418.
Tailstock. W. F. Groene. No. 1,361,792; Dec. 7; v. 281; p. 162.
Tailstock. G. D. Sundstrand. No. 1,357,362; Nov. 2; v. 280; p. 31.
Take-up device. R. B. Spikes. No. 1,362,198; Dec. 14; v. 281; p. 290.
Take-up mechanism. G. S. Hill. No. 1,361,057; Dec. 7; v. 281; p. 15.
Talcum-powder box. F. Eberhart. No. 1,340,217; May 18; v. 274; p. 427.
Talking-machine. A. D. Anderson. No. 1,327,516; Jan. 6; v. 270; p. 119.
Talking-machine. F. C. Bonnet. No. 1,356,594; Oct. 26; v. 279; p. 561.
Talking-machine. D. Di Carlo. No. 1,353,824; Sept. 21; v. 278; p. 409.
Talking-machine. F. Cirelli. No. 1,357,382; Nov. 2; v. 280; p. 35.
Talking-machine. J. G. Clemmer. No. 1,334,736; Mar. 23; v. 272; p. 641.
Talking-machine. J. A. Davis. No. 1,334,690; Mar. 23; v. 272; p. 638.
Talking-machine. J. A. Davis. No. 1,360,900; Nov. 30; v. 280; p. 943.
Talking-machine. F. L. Dyer. No. 1,326,920; Jan. 6; v. 270; p. 7.
Talking-machine. V. H. Emerson. No. 1,345,756; July 6; v. 276; p. 84.
Talking-machine. F. J. Empson. No. 1,340,531; May 18; v. 274; p. 486.
Talking-machine. W. M. Holloway. No. 1,349,759; Aug. 17; v. 277; p. 443.
Talking-machine. P. A. Horswell. No. 1,354,301; Sept. 28; v. 278; p. 649.
Talking-machine. E. M. Howard. No. 1,334,374; Mar. 23; v. 272; p. 573.
Talking-machine. G. H. Isley. No. 1,355,080; Oct. 5; v. 279; p. 125.
Talking-machine. G. H. Isley. No. 1,355,081; Oct. 5; v. 279; p. 125.
Talking-machine. J. S. Kramer. No. 1,352,901; Sept. 14; v. 278; p. 267.
Talking-machine. M. Krauss. No. 1,341,751; June 1; v. 275; p. 27.
Talking-machine. F. J. A. Pratte. No. 1,327,776; Jan. 13; v. 270; p. 229.
Talking-machine. J. F. Smith. No. 1,330,402; Feb. 10; v. 271; p. 229.
Talking-machine. J. Wolff. No. 1,350,762; Aug. 24; v. 277; p. 684.
Talking-machine. G. W. Woodward. No. 1,357,536; Nov. 2; v. 280; p. 63.
Talking-machine and writing-desk, Combined. D. Calarco. No. 1,330,734; Feb. 10; v. 271; p. 291.
Talking-machine apparatus. A. J. Swing and A. S. King. No. 1,355,711; Oct. 12; v. 279; p. 301.
Talking-machine, Automatic. E. Albrecht. No. 1,358,185; Nov. 9; v. 280; p. 250.
Talking-machine brake mechanism. M. Nystrom. No. 1,361,173; Dec. 7; v. 281; p. 38.
Talking-machine case. C. J. Malberg. No. 1,351,778; Sept. 7; v. 278; p. 12.
Talking-machine motor. M. Nystrom. No. 1,361,176; Dec. 7; v. 281; p. 39.
Talking-machine record and method and tool for making such records. F. W. Matthews. No. 1,350,510; Aug. 24; v. 277; p. 635.
Talking-machine records, Cabinet for. E. Blaise. No. 1,334,945; Mar. 30; v. 272; p. 741.
Talking-machine records, Filing-cabinet for. H. C. Brown. No. 1,330,301; Feb. 10; v. 271; p. 209.
Talking-machine register. J. P. Corey. No. 1,359,962; Nov. 23; v. 280; p. 691.
Talking-machine repeating attachment. J. C. Hitchner. No. 1,339,199; May 4; v. 274; p. 102.
Talking-machine reproducer. F. Adams. No. 1,344,931; June 29; v. 275; p. 897.
Talking-machine reproducer. J. W. Kaufmann. No. 1,354,197; Sept. 28; v. 278; p. 628.
Talking-machine, Self-operating. G. W. Woodward. No. 1,349,705; Aug. 17; v. 277; p. 433.
Talking-machine sound-amplifier. J. E. Christensen. No. 1,358,706; Nov. 16; v. 280; p. 400.
Talking-machine sound-box. G. Hetherington. No. 1,339,337; May 4; v. 274; p. 127.
Talking-machine sound-box. L. Salvi. No. 1,361,620; Dec. 7; v. 281; p. 129.

Digitized by Google

Talking-machine stop mechanism. P. Catucci and A. Vasselli. No. 1,350,781; Aug. 24; v. 277; p. 688.
Talking-machine styli, Container for. H. C. Brown and E. John. No. 1,350,294; Aug. 24; v. 277; p. 592.
Talking machine stylus-arm. F. Adams. No. 1,341,625; May 25; v. 274; p. 767.
Talking-machine tone-arm. H. Segal. No. 1,362,747; Dec. 21; v. 281; p. 449.
Talking-machine-top support and release therefor. G. L. Parrish. No. 1,353,540; Sept. 21; v. 278; p. 452.
Talking-machine turn-table. J. A. Davis. (Reissue.) No. 14,823; Mar. 23; v. 272; p. 683.
Talking-machine, Variable sound-conveyer or horn for. G. W. Beadle. No. 1,362,919; Dec. 21; v. 281; p. 482.
Talking-machines, Automatic stop for. A. E. Parnall. No. 1,345,398; July 6; v. 276; p. 14.
Talking-machines, Automatic stop for. C. H. Swiegle. No. 1,330,751; Feb. 10; v. 271; p. 294.
Talking-machines, Automatic stop mechanism for. E. T. Condon, Jr. No. 1,334,350; Mar. 23; v. 272; p. 569.
Talking-machines, Automatic-stop mechanism for. E. T. Condon, Jr. No. 1,381,839; Sept. 7; v. 278; p. 25.
Talking-machines, Automatic stop mechanism for. C. H. Sheldon. No. 1,333,782; Mar. 16; v. 272; p. 416.
Talking-machines, Brake mechanism for. T. H. Loy. No. 1,349,216; Aug. 10; v. 277; p. 263.
Talking-machines, Convertible sound-box for. W. W. Jackson and C. Paulsen. No. 1,329,906; Feb. 3; v. 271; p. 105.
Talking-machines, Lid-support for. J. Herzog. No. 1,352,602; Sept. 14; v. 278; p. 207.
Talking-machines, Means for controlling the operation of. R. Duncan. No. 1,357,037; Oct. 26; v. 279; p. 648.
Talking-machines, Means for controlling the operation of. R. Duncan. No. 1,357,038; Oct. 26; v. 279; p. 648.
Talking-machines, Mechanism-support for. J. C. Kenney. No. 1,336,842; Apr. 13; v. 273; p. 276.
Talking-machines, Record-holding cabinet for. R. D. Allen. No. 1,337,812; Apr. 20; v. 273; p. 534.
Talking-machines, Record-repeating device for. W. H. Fink. No. 1,331,702; Feb. 24; v. 271; p. 561.
Talking-machines, Repeating device for. A. Fraser. No. 1,327,816; Jan. 13; v. 270; p. 236.
Talking-machines, Repeating device for. G. F. Voith. No. 1,349,240; Aug. 10; v. 217; p. 268.
Talking-machines, Reproducer for. J. W. Kaufmann. No. 1,347,813; July 27; v. 276; p. 668.
Talking-machines, Shaft for. A. Vasselli. No. 1,328,065; Jan. 13; v. 270; p. 283.
Talking-machines, Shifting device and stop mechanism for. L. S. Hopkins. No. 1,332,339; Mar. 2; v. 272; p. 31.
Talking-machines, Sound-box for. A. C. Diehl. No. 1,350,596; Aug. 24; v. 277; p. 652.
Talking-machines, Sound-tube for. L. Y. Squibb. No. 1,341,522; May 25; v. 274; p. 747.
Talking-machines, Start and stop machine for. F. C. Hinckley. No. 1,357,560; Nov. 2; v. 280; p. 67.
Talking-machines, Starting and stopping device for. M. Murray. No. 1,334,783; Mar. 23; v. 272; p. 651.
Talking-machines, Stop mechanism for. R. Duncan. No. 1,346,082; July 6; v. 276; p. 149.
Talking-machines, Stylus-holder for. F. E. Joss. No. 1,359,995; Nov. 23; v. 280; p. 608.
Talking-machines, Supporting structure for the operative parts of. M. Nystrom. No. 1,361,175; Dec. 7; v. 281; p. 39.
Talking-machines, Tone-arm apparatus for. A. J. Swing. No. 1,349,636; Aug. 17; v. 277; p. 419.
Talking-machines, Tone-arm for. E. H. Hand. No. 1,345,487; July 6; v. 276; p. 31.
Talking-machines, Tone-arm for. T. H. Reed. No. 1,346,254; July 13; v. 276; p. 244.
Talking-machines, Tone-arm for. A. Vasselli. No. 1,350,753; Aug. 24; v. 277; p. 682.
Talking-machines, Tone-modifier for. F. W. Cooley. No. 1,349,604; Aug. 17; v. 277; p. 413.
Talking-machines, Tone-modifier for. F. W. Cooley. No. 1,352,115; Sept. 7; v. 278; p. 78.
Talking-machines, Tone-modifier for. F. H. Eliason. No. 1,334,601; Mar. 23; v. 272; p. 616.
Talking-machines, Tone-modifier for. S. Hough. No. 1,330,469; Feb. 10; v. 271; p. 241.
Talking-machines, Vibrato device for. M. O'Gorman. No. 1,333,726; Mar. 16; v. 272; p. 406.
Tambourine. I. Levy. No. 1,350,975; Aug. 24; v. 277; p. 724.
Tambourine. F. H. Newlin. No. 1,333,565; Mar. 9; v. 272; p. 315.
Tamper. C. Jackson. No. 1,329,049; Jan. 27; v. 270; p. 534.
Tamper. C. Jackson. No. 1,361,261; Dec. 7; v. 281; p. 55.
Tamper implement. N. C. Study. No. 1,341,945; June 1; v. 275; p. 65.
Tamping-machine. C. G. Hastings. No. 1,351,106; Aug. 31; v. 277; p. 812.
Tamping-machine. C. G. Hastings. No. 1,351,246; Aug. 31; v. 277; p. 840.
Tamping-machine. N. C. Study. No. 1,341,944; June 1; v. 275; p. 65.
Tandem implement. E. J. Powell. No. 1,344,819; June 29; v. 275; p. 876.
Tank: *See*—
Air or water pressure tank.
Automobile-tank.
Automobile emergency-tank.
Automobile fuel-tank.
Clamp-tank.
Color-solution-mixing tank.
Concrete tank.
Film-developing tank.
Flushing-tank.
Formation-tank.
Fuel-tank.
Fuel-reserve tank.
Gasolene-delivering tank.
Gasolene-feed tank.
Leaching-tank.
Liquid-fuel tank.
Oil-tank.
Ore leaching and settling tank.
Refrigerating-tank.
Septic tank.
Septic or consuming tank.
Settling-tank.
Stock-watering tank.
Toy tank.
Toy-fighting-tank.
Vacuum-tank.
Vehicle-tank.
Watering-tank.
Tank. F. G. Cronenberger. No. 1,359,673; Nov. 23; v. 280; p. 633.
Tank. I. C. Douglass. No. 1,343,169; June 8; v. 275; p. 359.
Tank. W. M. Hutchison. No. 1,329,603; Feb. 3; v. 271; p. 48.
Tank. F. M. Kirsch. No. 1,329,414; Feb. 3; v. 271; p. 18.
Tank. H. R. Krohn. No. 1,361,591; Dec. 7; v. 281; p. 124.
Tank. P. P. Payne. No. 1,363,992; Dec. 28; v. 281; p. 730.
Tank. K. I. Small. No. 1,343,412; June 15; v. 275; p. 469.
Tank. C. A. Xardell. No. 1,341,965; June 1; v. 275; p. 69.
Tank and forming same. R. D. Johnson. No. 1,339,062; May 4; v. 274; p. 77.
Tank and heater, Watering-. S. B. Scheppmann. No. 1,330,723; Feb. 10; v. 271; p. 289.
Tank and valve therefor, Thermos-. J. C. Bewan. No. 1,327,693; Jan. 13; v. 270; p. 218.
Tank attachment. C. Hering. No. 1,355,742; Oct. 12; v. 279; p. 306.
Tank-ball. C. Riegger. No. 1,334,798; Mar. 23; v. 272; p. 653.
Tank construction. A. A. Kramer. No. 1,341,214; May 25; v. 274; p. 688.
Tank construction. A. A. Kramer. No. 1,341,216; May 25; v. 274; p. 688.
Tank construction, Vehicle-. A. A. Kramer. No. 1,341,215; May 25; v. 274; p. 688.
Tank-filler cap, Gasolene-. S. A. Stranahan. No. 1,339,485; May 11; v. 274; p. 231.
Tank hand-hole and cover. A. F. O'Connor. No. 1,339,905; May 11; v. 274; p. 311.
Tank-heater. W. S. Bryson. No 1,329,035; Jan 27; v. 270; p. 532.
Tank-heater. R. O. and A. J. Dohm. No. 1,359,159; Nov. 16; v. 280; p. 486.
Tank-heater. T. Severson. No. 1,337,800; Apr. 20; v. 273; p. 531.
Tank-heater. H. S. Thomasson. No. 1,329,063; Jan. 27; v. 270; p. 537.
Tank-heater. G. A. and A. F. Trachte. No. 1,334,978; Mar. 30; v. 272; p. 748.
Tank-heater. O. A. Wenberg. No. 1,351,194; Aug. 31; v. 277; p. 830.
Tank-lining. F. Schüler. No. 1,355,360; Oct. 12; v. 279; p. 283.
Tank-lock. F. H. Rundall. No. 1,348,744; Aug. 3; v. 277; p. 118.
Tank-mounting. R. F. Blake. No. 1,348,538; Aug. 3; v. 277; p. 79.
Tank or redoubt for military use, Self-propelled. F. W. Cunard. No. 1,342,943; June 8; v. 275; p. 314.
Tank-rack. E. H. Nelson. No. 1,351,923; Sept. 7; v. 278; p. 42.
Tank-regulator. W. M. Fulton. No. 1,328,277; Jan. 20; v. 270; p. 360.
Tank-regulator, Automatic W. M. Fulton. (Reissue.) No 14,843; Apr. 20; v. 273; p. 568.
Tank-valve and discharge-pipe. C. A. Lindström. No. 1,335,445; Mar. 30; v. 272; p. 835.
Tank-washing machinery, Multiple-. J. W. Stults. No. 1,360,464; Nov. 30; v. 280; p. 857.
Tanks, Automatic means for draining crude-oil. T. S. McCahon. No. 1,329,983; Feb. 3; v. 271; p. 119.
Tanks, Closure and tap for. E. O. Benjamin. No. 1,328,980; Jan. 27; v. 270; p. 522.
Tanks, Device for extinguishing fires in. W. F. Reschke. No. 1,363,271; Dec. 28; v. 281; p. 591.
Tanks, Discharge-valve for flush-. C. W. Beattie. No. 1,353,559; Sept. 21; v. 278; p. 456.
Tanks, Electric heater for stock-watering. W. E. Johnson. No. 1,334,035; Mar. 16; v. 272; p. 464.
Tanks, Liquid-level gage for storage-. G. H. Alexander and R. J. Nash. No. 1,330,047; Feb. 10; v. 271; p. 163.
Tanks, Mounting for vehicle-. A. Davis, Jr. No. 1,329,039; Jan. 27; v. 270; p. 533.
Tanks, pipes, &c., Anti-bursting attachment for. J. M. Verre. No. 1,355,721; Oct. 12; v. 279; p. 303.
Tanks, pipes, &c., Antibursting and antishock device for. J. Varre. No. 1,348,384; Aug. 3; v. 277; p. 50.

Digitized by Google

Tanks, Reserve device for fuel-. J. Fehan. No. 1,329,074; Jan. 27; v. 270; p. 539.
Tanks, Stand for hot-water. C. A. Anderson. No. 1,334,581; Mar. 23; v. 272; p. 613.
Tanks, Valve mechanism for flushing-. M. J. Fehniger. No. 1,362,246; Dec. 14; v. 281; p. 300.
Tanks, Volumetric discharge for oil-. C. H. Gunn. No. 1,330,939; Feb. 17; v. 271; p. 899.
Tanks with their engines, Connection of fuel-. R. Caudron. No. 1,333,538; Mar. 9; v. 272; p. 310.
Tannate-lime compound difficultly soluble in dilute acid, Producing. R. Tambach. No. 1,352,768; Sept. 14; v. 278; p. 241.
Tanning. C. V. Greenwood. No. 1,349,150; Aug. 10; v. 277; p. 250.
Tanning. C. C. Krouse. No. 1,338,307; Apr. 27; v. 278; p. 697.
Tanning extract from waste-sulfite lye, Production of. H. B. Landmark. No. 1,327,105; Jan. 6; v. 270; p. 43.
Tanning fur. T. O. Williams. No. 1,355,374; Oct. 12; v. 279; p. 236.
Tanning machinery. J. and J. Wright. No. 1,343,756; June 15; v. 275; p. 537.
Tanning material and producing same. A. Koetzle. No. 1,344,950; June 29; v. 275; p. 900.
Tanning material and producing same. A. Koetzle. No. 1,344,951; June 29; v. 275; p. 900.
Tanning material and producing same. A. Koetzle. No. 1,344,952; June 29; v. 275; p. 900.
Tap. G. E. Miller. No. 1,342,754; June 8; v. 275; p. 276.
Tap. F. O. Wells. No. 1,345,425; July 6; v. 276; p. 19.
Tap and faucet. J. C. Shafer. No. 1,344,827; June 29; v. 275; p. 877.
Tap, Collapsible. R. A. Boehm. No. 1,345,744; July 6; v. 276; p. 81.
Tap, Collapsing. E. M. Buckins. No. 1,344,113; June 22; v. 275; p. 672.
Tap, Collapsible. W. H. Gates. No. 1,358,075; Nov. 9; v. 280; p. 229.
Tap, Collapsible. P. Jardine. Nos. 1,362,799–800; Dec. 21; v. 281; pp. 459–460.
Tap, Collapsible. V. R. Koontz. No. 1,353,048; Sept. 14; v. 278; p. 296.
Tap, Collapsible. V. R. Koontz. No. 1,356,867; Oct. 26; v. 279; p. 615.
Tap, Collapsible. A. A. Shafer. No. 1,345,710; July 6; v. 276; p. 75.
Tap-guide. H. Müller. No. 1,346,235; July 13; v. 276; p. 240.
Tap remover, Broken-. P. Pesa. No. 1,331,366; Feb. 17; v. 271; p. 478.
Tapping apparatus. A. A. Rosengren. No. 1,347,914; July 27; v. 276; p. 689.
Tapping-head, Automatic. H. Spence. No. 1,327,497; Jan. 6; v. 270; p. 115.
Tapping-machine. G. S. Haley. No. 1,353,833; Sept. 28; v. 278; p. 554.
Tape attachment. M. H. Ballou. (Reissue.) No. 14,947; Sept. 7; v. 278; p. 135.
Tape, Buttonhole-. C. E. Oathout. No. 1,336,577; Apr. 13; v. 273; p. 224.
Tape-delivering device. C. G. Mortimer. No. 1,334,670; Mar. 23; v. 272; p. 629.
Tape feeding and checking register. J. A. Greenwalt. No. 1,335,576; Mar. 30; v. 272; p. 860.
Tape, Jointed metallic. P. H. Wilson and C. H. Sapper. No. 1,327,368; Jan. 6; v. 270; p. 90.
Tape, Thread-reinforced-paper gummed. C. H. Crowell. No. 1,351,374; Aug. 31; v. 277; p. 866.
Tape, Wall-. J. Schumacher. No. 1,357,350; Nov. 2; v. 280; p. 29.
Taper charge regulator. W. L. Bliss. No. 1,354,798; Oct. 5; v. 279; p. 71.
Taping-machine. H. C. Jarvis. No. 1,355,228; Oct. 12; v. 279; p. 207.
Tar-extractor apparatus and method. J. Becker. No. 1,337,984; Apr. 20; v. 273; p. 567.
Tar from products of distillation of wood or coal, Removing. E. A. Barbet. No. 1,351,363; Aug. 31; v. 277; p. 864.
Tar, Producing resinous bases from. E. Wirth. No. 1,339,310; May 4; v. 274; p. 121.
Tars and pyroligneous acid, Separating wood-. W. E. Clifford. No. 1,339,022; May 4; v. 274; p. 69.
Target. A. Henigman. No. 1,327,998; Jan. 13; v. 270; p. 270.
Target. O. Klein. No. 1,342,022; June 1; v. 275; p. 80.
Target. W. A. Mosby. No. 1,341,814; June 1; v. 275; p. 40.
Target. W. H. Tyerman. No. 1,364,010; Dec. 28; v. 281; p. 733.
Target, Automatic safety-. G. F. Briggs. No. 1,348,540; Aug. 3; v. 277; p. 79.
Target practice, Method of and means for. B. A. Fiske. No. 1,363,861; Dec. 28; v. 281; p. 705.
Target-shooting, Guard or protector for. J. B. McKenzie. No. 1,357,242; Nov. 2; v. 280; p. 8.
Target-throwing device. C. H. Napier. No. 1,353,663; Sept. 21; v. 278; p. 478.
Target-trap. N. M. Benner. No. 1,362,467; Dec. 14; v. 281; p. 342.
Tatting apparatus, Automatic. G. E. Frazier. No. 1,350,445; Aug. 24; v. 277; p. 622.
Tatting-thimble. L. L. Bauman. No. 1,355,298; Oct. 12; v. 279; p. 221.
Taxicabs, Signal-flag for. A. Crick. No. 1,347,210; July 20; v. 276; p 491
Tea and coffee pot, Combination. S. F. Guggenheimer. No. 1,360,935; Nov. 30; v. 280; p. 949.
Tea-brewing appliance. G. H. Stockman, Jr. No. 1,362,054; Dec. 14; v. 281; p. 262.
Teaching infants, Combination of devices for. E. Pye. No. 1,329,850; Feb. 3; v. 271; p. 95.
Teaching projection, Apparatus for. A. L. Howard. No. 1,327,474; Jan. 6; v. 270; p. 110.
Teacups, saucepans, and the like, Detachable handle for. J. P. Morine. No. 1,341,756; June 1; v. 275; p. 29.
Teakettle. F. M. Case. No. 1,338,553; Apr. 27; v. 273; p. 743.
Teakettle. H. E. Casler. No. 1,330,169; Feb. 10; v. 271; p. 186.
Tearing-tester. S. D. Wells. No. 1,329,486; Feb. 3; v. 271; p. 27.
Tearing-tester. S. D. Wells. No. 1,335,307; Mar. 30; v. 272; p. 810.
Teeter-board, Revolving. W. Williams. No. 1,339,536; May 11; v. 274; p. 241.
Teeter-totter. T. Wallace. No. 1,349,701; Aug. 17; v. 277; p. 432.
Teeth, Artificial. R. E. Hall. No. 1,339,821; May 11; v. 274; p. 295.
Teeth, Artificial. E. T. Hedlund and S. E. Noyes. No. 1,332,466; Mar. 2; v. 272; p. 56.
Teeth-cleaner, Sanitary. R. Hasbrook. No. 1,346,125; July 13; v. 276; p. 219.
Teeth in an arc, Feeler with. E. S. Stimpson. No. 1,332,774; Mar. 2; v. 272; p. 114.
Teeth, Method and device for producing plates for. M. Rice. No. 1,343,935; June 22; v. 275; p. 638.
Teeth, Mold for forming artificial. T. F. Glenn. No. 1,346,951; July 20; v. 276; p. 441.
Teeth, Mold for molding artificial. G. H. Whiteley, Jr. No. 1,328,351; Jan. 20; v. 270; p. 374.
Teeth, Process and means for making artificial crowns for. E. M. Fredericks. No. 1,335,372; Mar. 30; v. 272; p. 822.
Teeth, Producing digging-. W. G. Nichols. No. 1,336,576; Apr. 13; v. 273; p. 224.
Telautographic apparatus. G. S. Tiffany. No. 1,326,994; Jan. 6; v. 270; p. 22.
Telegraph and telephone circuits, Receiver for wireless-. F. E. Summers. No. 1,338,756; May 4; v. 274; p. 20.
Telegraph installation. O. Srnka. No. 1,355,863; Oct. 19; v. 279; p. 371.
Telegraph instrument. T. J. Dunn. No. 1,338,497; Apr. 27; v. 273; p. 733.
Telegraph instrument. J. V. Guerra. No. 1,348,717; Aug. 3; v. 277; p. 113.
Telegraph-key. W. P. Liles. No. 1,341,810; June 1; v. 275; p. 39.
Telegraph, Printing-. G. S. Hiltz. No. 1,347,580; July 27; v. 276; p. 622.
Telegraph, Printing-. C. L. and H. L. Krum. No. 1,360,231; Nov. 23; v. 280; p. 743.
Telegraph receiver, Printing-. E. W. Adams. No. 1,362,587; Dec. 21; v. 281; p. 417.
Telegraph receiver, Printing-. J. M. Joy. No. 1,354,657; Oct. 5; v. 279; p. 42.
Telegraph-receptor. W. E. Peirce. No. 1,327,352; Jan. 6; v. 270; p. 88.
Telegraph repeating system. A. J. Eaves. No. 1,353,464; Sept 21; v. 278; p. 437.
Telegraph-sounder. J. W. Jackson. No. 1,329,905; Feb. 3; v. 271; p. 105.
Telegraph, Spark-gap used in wireless. J. F. J. Bethenod and E. F. Girardeau. No. 1,333,789; Mar. 16; v. 272; p. 418.
Telegraph system. J. H. Bell. No. 1,337,748; Apr. 20; v. 273; p. 522.
Telegraph system. J. H. Bell. No. 1,351,989; Sept. 7; v. 278; p. 55.
Telegraph system. J. H. Bell. No. 1,356,592; Oct. 26; v. 279; p. 561.
Telegraph system. J. H. Bell. No. 1,359,019; Nov. 16; v. 280; p. 461.
Telegraph system. J. H. Bell. No. 1,359,565; Nov. 23; v. 280; p. 612.
Telegraph system. J. H. Bell. No. 1,359,952; Nov. 23; v. 280; p. 689.
Telegraph system. J. H. Bell. No. 1,360,712; Nov. 30; v. 280; p. 907.
Telegraph system. J. H. Bell. No. 1,360,713; Nov. 30; v. 280; p. 907.
Telegraph system. J. H. Bell. No. 1,362,592; Dec. 21; v. 281; p. 418.
Telegraph system. A. D. Dowd. No. 1,362,607; Dec. 21; v. 281; p. 421.
Telegraph system. R. A. Heising. No. 1,339,824; May 11; v. 274; p. 295.
Telegraph system. P. M. Rainey. No. 1,341,998; June 1; v. 275; p. 75.
Telegraph system. A. R. Swoboda. No. 1,334,122; Mar. 16; v. 272; p. 481.

Digitized by Google

Telegraph system. A. R. Swoboda. No. 1,362,648; Dec. 21; v. 281; p. 429.
Telegraphic system, Secret. A. J. Eaves. No. 1,356,701; Oct. 26; v. 279; p. 582.
Telegraph-tape, Apparatus for treating. P. B. Delany and L. W. Shumaker. No. 1,350,789; Aug. 24; v. 277; p. 689.
Telegraph transmitter. E. H. Piersen. (Reissue.) No. 14,910; July 6; v. 276; p. 154.
Telegraph-transmitter. E. H. Piersen. (Reissue.) No. 14,921; July 20; v. 276; p. 547.
Telegraph-transmitter. E. H. Piersen. No. 1,359,463; Nov. 16; v. 280; p. 547.
Telegraphs, Paper-feed mechanism for printing-. D. Murray. No. 1,352,308; Sept. 7; v. 278; p. 114.
Telegraphic messages, Duplex method of and apparatus for sending. E. S. Sandberg and L. B. Newell. No. 1,333,452; Mar. 9; v. 272; p. 293.
Telegraphy. J. H. Bell. No. 1,336,414; Apr. 13; v. 273; p. 194.
Telegraphy. W. M. Bruce, Jr. No. 1,352,878; Sept. 14; v. 278; p. 262.
Telegraphy. G. C. Cummings. No. 1,352,116; Sept. 7; v. 278; p. 78.
Telegraphy. P. B. Delany and L. W. Shumaker. No. 1,350,790; Aug. 24; v. 277; p. 689.
Telegraphy. T. B. Dixon. No. 1,339,549; May 11; v. 274; p. 243.
Telegraphy. T. B. Dixon. No. 1,339,550; May 11; v. 274; p. 243.
Telegraphy. T. B. Dixon. No. 1,339,551; May 11; v. 274; p. 244.
Telegraphy. C. E. Hay. No. 1,357,199; Oct. 26; v. 279; p. 679.
Telegraphy and telephony, Apparatus for wireless. W. E. Benkes. No. 1,362,383; Dec. 14; v. 281; p. 326.
Telegraphy, Receiver for wireless. J. L. Hogan, Jr. No. 1,363,319; Dec. 28; v. 281; p. 600.
Telegraphy, Sending device for subaqueous-current-line. W. Habnemann. No. 1,331,640; Feb. 24; v. 271; p. 550.
Telegraphy, Wireless. F. Cutting and B. Washington. No. 1,345,352; July 6; v. 276; p. 5.
Telemeter. W. Bauersfeld. No. 1,347,571; July 27; v. 276; p. 620.
Telemeters, Adjustment of uniocular. A König. No. 1,347,044; July 20; v. 276; p. 460.
Telemetric device. H. L. Tanner. No. 1,350,345; Aug. 24; v. 277; p. 602.
Telemotor. M. B. Benson. No. 1,345,060; June 29; v. 275; p. 920.
Telemotor. R. MacGregor. No. 1,340.727: May 18; v. 274; p. 523.
Telemotor apparatus. H. H. MacTaggart and R. G. Scott. No. 1,332,050; Feb. 24; v. 271; p. 628.
Telemotor apparatus. W. Wallace. No. 1,342,238; June 1; v. 275; p. 123.
Telephone. E. A. Bohlman. No. 1,341,105; May 25; v. 274; p. 667.
Telephone. W. C. Ude. No. 1,327,412; Jan. 6; v. 270; p. 98.
Telephone-amplifier. H. C. Egerton. No. 1,337,694; Apr. 20; v. 273; p. 512.
Telephone and phonograph, Combined. J. F. Malthaner. No. 1,344,918; June 29; v. 275; p. 894.
Telephone apparatus. J. S. Timmons. No. 1,329,029; Jan. 27; v. 270; p. 531.
Telephone apparatus and system. E. A. Mellinger. No. 1,330,046; Feb. 3; v. 271; p. 181.
Telephone apparatus, Despatcher's. P. J. Hackett. No. 1,347,850; July 27; v. 276; p. 676.
Telephone apparatus for the deaf. E. C. Hanson. No. 1,343,717; June 15; v. 275; p. 530.
Telephone apparatus, Listening-in signal for . G. I. Galitzka. No. 1,360,632; Nov. 30; v. 280; p. 891.
Telephone attachment. C. Baum and E. H. Talbert. No. 1,362,464; Dec. 14; v. 281; p. 341.
Telephone attachment. S. M. Knopf. No. 1,341,855; June 1; v. 275; p. 48.
Telephone attachment. C. E. Krueger. No. 1,339,518; May 11; v. 274; p. 237.
Telephone attachment. G. E. Lague. No. 1,358,642; Nov. 9; v. 280; p. 342.
Telephone attachment. C. J. Moses. No. 1,355,243; Oct. 12; v. 279; p. 210.
Telephone attachment. H. J. Richards. No. 1,334,319; Mar. 23; v. 272; p. 563.
Telephone attachment, Sanitary. E. M. Potter. No. 1,347,710; July 27; v. 276; p. 648.
Telephone, Automatic selective. R. C. M. Hastings. No. 1,334,452; Mar. 23; v. 272; p. 588.
Telephone-booth controller. G. E. Thum and M. Theimer. No. 1,337,858; Apr. 20; v. 273; p. 543.
Telephone-brackets, Attachment for. P. E. Fleming. No. 135,477; Oct. 5; v. 279; p. 6.
Telephone-call-distributing system. E. H. Smythe. No. 1,330,220; Feb. 10; v. 271; p. 195.
Telephone-circuits, Loaded. G. A. Kelsall. No. 1,360,757; Nov. 30; v. 280; p. 915.
Telephone-concealing hood. Ornamental. H. W. Knight. No. 1,340,863; May 18; v. 274; p. 548
Telephone-cord. A. Reihing. No. 1,336,859; Apr. 13; v. 273; p. 279.
Telephone-directories, Binder for. J. H. Cannon. No. 1,360,264; Nov. 30; v. 280; p. 819.
Telephone-directory device. F. R. Chester. No. 1,332,604; Mar. 2; v. 272; p. 82.
Telephone-exchange apparatus. J. N. Reynolds. No. 1,337,325; Apr. 20; v. 273; p. 442.
Telephone-exchange, Automatic. A. M. Bullard. No. 1,327,805; Jan. 13; v. 270; p. 234.
Telephone-exchange automatic switching system. E. A. Mellinger. No. 1,343,462; June 15; v. 275; p. 478.
Telephone-exchange system. H. P. Clausen. No. 1,337,197; Apr. 20; v. 273; p. 417.
Telephone-exchange system. H. P. Clausen. No. 1,337,754; Apr. 20; v. 273; p. 523.
Telephone-exchange system. H. P. Clausen. No. 1,337,755; Apr. 20; v. 273; p. 523.
Telephone-exchange system. H. P. Clausen. No. 1,340,935; May 25; v. 274; p. 633.
Telephone-exchange system. H. P. Clausen. No. 1,345,348; July 6; v. 276; p. 5.
Telephone-exchange system. H. P. Clausen. No. 1,345,349; July 6; v. 276; p. 5.
Telephone-exchange system. E. E. Clement. No. 1,348,209; Aug. 3; v. 277; p. 15.
Telephone-exchange system. A. F. Dixon and F. N. Reeves. No. 1,340,940: May 25; v 274; p. 634.
Telephone-exchange system. W. L. Dodge. No. 1,337,761; Apr. 20; v. 273; p. 524.
Telephone-exchange system. B. G. Dunham. No. 1,355,594; Oct. 12; v. 279; p. 278.
Telephone-exchange system. A. H. Dyson. No. 1,334,294; Mar. 23; v. 272; p. 558.
Telephone-exchange system. A. H. Dyson. No. 1,352,660: Sept. 14; v. 278; p. 219.
Telephone-exchange system. C. B. Fowler. No. 1,330,252: Feb. 10; v. 271; p. 201.
Telephone-exchange system. C. B. Fowler. No. 1,356,704; Oct. 26; v. 279; p. 583.
Telephone-exchange system. C. L. Goodrum. No. 1,334,300; Mar. 23; v. 272; p. 559.
Telephone-exchange system. C. L. Goodrum. No. 1,334,447; Mar. 23; v. 272; p. 587.
Telephone-exchange system. W. H. Harrison. No. 1,330,467; Feb. 10; v. 271; p. 241.
Telephone-exchange system. W. H. Harrison. No. 1,337,471; Apr. 20; v. 273; p. 469.
Telephone-exchange system. G. S. Hoffman. No. 1,334,755; Mar. 23; v. 272; p. 645.
Telephone-exchange system. C. W. Keckler. No. 1,352,970; Sept. 14; v. 278; p. 281.
Telephone-exchange system. W. C. Kiesel. No. 1,330,474; Feb. 10; v. 271; p. 242.
Telephone-exchange system. A. E. Lundell. No. 1,330,200; Feb. 10; v. 271; p. 192.
Telephone-exchange system. A. E. Lundell. No. 1,334,766; Mar. 23; v. 272; p. 648.
Telephone-exchange system. A. E. Lundell. No. 1,337,711; Apr. 20; v. 273; p. 515.
Telephone-exchange system. A. E. Lundell. No. 1,337,782; Apr. 20; v. 273; p. 528.
Telephone-exchange system. A. E. Lundell. No. 1,356,164; Oct. 19; v. 279; p. 430.
Telephone-exchange system. A. E. Lundell. No. 1,356,639; Oct. 26; v. 279; p. 570.
Telephone-exchange system. A. E. Lundell and A. B. Sperry. No. 1,334,308; Mar. 23; v. 272; p. 561.
Telephone-exchange system. A. E. Lundell and F. A. Stearn. No. 1,330,483; Feb. 10; v. 271; p. 244.
Telephone-exchange system. A. E. Lundell and E. H. Clark. No. 1,342,823; June 8; v. 275; p. 291.
Telephone-exchange system. E. R. Lundius. No. 1,330,201; Feb. 10; v. 271; p. 192.
Telephone-exchange system. J. C. McAuliffe. No. 1,330,202; Feb. 10; v. 271; p. 192.
Telephone-exchange system. J. L. McQuarrie. No. 1,337,714; Apr. 20; v. 273; p. 516.
Telephone-exchange system. H. W. MacDougall. No. 1,329,004; Jan. 27; v. 270; p. 526.
Telephone-exchange system. L. Polinkowsky. No. 1,339,575; May 11; v. 274; p. 248.
Telephone-exchange system. F. N. Reeves. No. 1,353,612; Sept. 21; v. 278; p. 467.
Telephone-exchange system. A. B. Sperry. No. 1,337,671; Apr. 20; v. 273; p. 507.
Telephone-exchange system. D. M. Taggart. No. 1,330,221; Feb. 10; v. 271; p. 195.
Telephone-exchange system. D. M. Taggart. No. 1,355,926: Oct. 19; v. 279; p. 383.
Telephone-exchange system. D. M. Taggart. No. 1,355,927; Oct. 19; v. 279; p. 383.
Telephone-exchange system. H. W. Ulrich. No. 1,337,297; Apr. 20; v. 273; p. 437.
Telephone-exchange system. T. Van Amstel. No. 1,337,736; Apr. 20; v. 273; p. 520.
Telephone-exchange system. W. C. Weaver. No. 1,353,872: Sept. 28; v. 278; p. 562.
Telephone-exchange system. R. S. Wilbur. No. 1,337,301; Apr. 20; v. 273; p. 437.
Telephone-exchange system. R. S. Wilbur. No. 1,356,181; Oct. 19; v. 279; p. 434.
Telephone-exchange system. S. B. Williams, Jr. No. 1,334,125; Mar. 16; v. 272; p. 481.

Digitized by Google

Telephone-exchange system. S. B. Williams, Jr. No. 1,337,681; Apr. 20; v. 273; p. 509.
Telephone-exchange system. S. B. Williams, Jr. No. 1,355,634; Oct. 12; v. 279; p. 286.
Telephone-exchange system. S. B. Williams, Jr. No. 1,355,635; Oct. 12; v. 279; p. 286.
Telephone-exchange system. S. B. Williams, Jr., and C. F. Baldwin. No. 1,337,740; Apr. 20; v. 273; p. 521.
Telephone-exchange system. S. B. Williams, Jr., and R. L. Quass. No. 1,320,417; Feb. 3; v. 271; p. 232.
Telephone-exchange system. J. L. Wright. No. 1,330,226; Feb. 10; v. 271; p. 196.
Telephone-exchange system. J. L. Wright. No. 1,339,010; May 4; v. 274; p. 66.
Telephone-exchange system. J. L. Wright. No. 1,350,536; Aug. 24; v. 277; p. 640.
Telephone-exchange system, Automatic. J. W. Lattig and C. L. Goodrum. No. 1,355,983; Oct. 19; v. 279; p. 394.
Telephone-exchange system, Graded-service electromechanical. G. Heimann. No. 1,341,801; June 1; v. 275; p. 38.
Telephone-exchange system, Machine-switching. A. E. Lundell. No. 1,337,710; Apr. 20; v. 273; p. 515.
Telephone-exchange system, Machine-switching. L. Polinkowsky. No. 1,345,879; July 6; v. 276; p. 108.
Telephone-exchange trunking system. B. D. Willis. No. 1,342,242; June 1; v. 275; p. 124.
Telephone-exchanges, Calling mechanism for. F. A. Lundquist. No. 1,327,622; Jan. 13; v. 270; p. 200.
Telephone-exchanges, System for interconnecting manual and automatic. G. D. Wolf. No. 1,343,489; June 15; v. 275; p. 484.
Telephone hand set or handpiece. H. G. Pape. No. 1,341,280; May 25; v. 274; p. 700.
Telephone head-set. J. S. Timmons. No. 1,354,524; Oct. 5; v. 279; p. 15.
Telephone-headband. H. Gernsback. No. 1,329,658; Feb. 3; v. 271; p. 58.
Telephone instrument. T. J. Reichmann and J. Press. No. 1,347,175; July 20; v. 276; p. 485.
Telephone-locking device. T. G. Murton. No. 1,332,564; Mar. 2; v. 272; p. 75.
Telephone-mouthpiece. W. M. Parker. No. 1,331,669; Feb. 24; v. 271; p. 555.
Telephone-operating device. W. H. Riess. No. 1,350,737; Aug. 24; v. 277; p. 679.
Telephone-receiver. W. W. Dean. No. 1,350,594; Aug. 24; v. 277; p. 652.
Telephone-receiver. E. Hausdorf. No. 1,359,061; Nov. 16; v. 280; p. 469.
Telephone-receiver. J. C. Kane. No. 1,362,008; Dec. 14; v. 281; p. 253.
Telephone-receiver. C. Kraft. No. 1,331,469; Feb. 17; v. 271; p. 497.
Telephone-receiver. R. Nordenswan and R. C. Winckel. No. 1,330,214; Feb. 10; v. 271; p. 194.
Telephone-receiver. A. Umholtz. No. 1,340,807; May 18; v. 274; p. 538.
Telephone-receiver. J. A. Wotton. No. 1,337,741; Apr. 20; v. 273; p. 521.
Telephone receiver and receiver-switch. A. Engelberg. No. 1,337,892; Apr. 20; v. 273; p. 550.
Telephone-receiver attachment. S. H. Hamer. No. 1,333,805; Mar. 16; v. 272; p. 421.
Telephone-receiver holder. F. A. Bensberg. No. 1,358,506; Nov. 9; v. 280; p. 315.
Telephone-receiver holder. A. J. Diebold. No. 1,345,839; July 6; v. 276; p. 100.
Telephone-receiver holder. J. Levy. No. 1,338,781; May 4; v. 274; p. 25.
Telephone-receiver holder. C. F. Simpson. No. 1,336,929; Apr. 13; v. 273; p. 293.
Telegraph receiver, Printing-. M. B. Kerr. No. 1,330,472; Feb. 10; v. 271; p. 242.
Telephone-receiver support. A. G. Mass and L. Nusbaum. No. 1,332,133; Feb. 24; v. 271; p. 642.
Telephone-receivers, Acoustic stand for. B. E. Chapin. No. 1,341,358; May 25; v. 274; p. 716.
Telephone, Recording-. J. F. Malthoner. No. 1,335,978; Apr. 6; v. 273; p. 52.
Telephone-reel. C. H. Roth. No. 1,346,467; July 13; v. 276; p. 287.
Telephone-reminder. J. Jasina. No. 1,337,319; Apr. 20; v. 273; p. 441.
Telephone-repeater. J. Mills. No. 1,351,863; Sept. 7; v. 278; p. 80.
Telephone-repeater, Automatic. R. G. Richardson. No. 1,344,210; June 22; v. 275; p. 690.
Telephone-repeaters, Monitoring-circuit for. J. F. Loomey. No. 1,361,929; Dec. 14; v. 281; p. 237.
Telephone sanitary attachment. J. D. Sartakoff. No. 1,354,780; Oct. 5; v. 279; p. 67.
Telephone sanitary device. D. P. Lopéz. No. 1,331,345; Feb. 17; v. 271; p. 474.
Telephone-screen and container for confectionery, Combination. P. R. Shailer. No. 1,361,628; Dec. 7; v. 281; p. 131.
Telephone set. W. T. Booth. No. 1,330,234; Feb. 10; v. 271; p. 198.
Telephone set. W. T. Booth. No. 1,341,007; May 25; v. 274; p. 648.
Telephone set. W. G. Crawford. No. 1,337,692; Apr. 20; v. 273; p. 511.
Telephone set. H. C. Egerton. No. 1,339,814; May 11; v. 274; p. 294.
Telephone set. R. R. Herrmann. No. 1,340,955; May 25; v. 274; p. 637.
Telephone set. H. Symes. No. 1,327,500; Jan. 6; v. 270; p. 115.
Telephone set, Portable. G. M. O. Jenkins. No. 1,354,908; Oct. 5; v. 279; p. 92.
Telephone-shelf. R. E. Congdon. No. 1,360,180; Nov. 23; v. 280; p. 734.
Telephone signal system. K. Tsukamoto. No. 1,355,191; Oct. 12; v. 279; p. 200.
Telephone-support. W. I. Miller. No. 1,336,253; Apr. 6; v. 273; p. 104.
Telephone-switch-controlling system. A. E. Lundell. No. 1,333,027; Mar. 9; v. 272; p. 214.
Telephone switching apparatus, Toll-. H. M. Friendly and A. E. Burns. No. 1,342,260; June 1; v. 275; p. 127.
Telephone system. W. Aitken. No. 1,338,350; Apr. 27; v. 273; p. 706.
Telephone system. W. P. Andrick. No. 1,333,596; Mar. 16; v. 272; p. 381.
Telephone system. W. G. Britton. No. 1,356,256; Oct. 19; v. 279; p. 449.
Telephone system. H. W. Bryce. No. 1,354,020; Sept. 28; v. 278; p. 592.
Telephone system. L. C. Bygrave and T. M. Inman. No. 1,342,792; June 8; v. 275; p. 284.
Telephone system. B. D. Campbell. No. 1,348,780; Aug. 3; v. 277; p. 125.
Telephone system. L. W. Carroll. No. 1,337,752; Apr. 20; v. 273; p. 523.
Telephone system. H. P. Clausen and C. L. Goodrum. No. 1,343,903; June 22; v. 275; p. 631.
Telephone system. H. P. Clausen. No. 1,360,722; Nov 30; v. 280; p. 909.
Telephone system. C. L. Goodrum. No. 1,337,309; Apr. 20; v. 273; p. 439.
Telephone system. C. L. Goodrum. No. 1,337,310; Apr. 20; v. 273; p. 439.
Telephone system. C. L. Goodrum. No. 1,337,699; Apr. 20; v. 273; p. 513.
Telephone system. C. L. Goodrum. No. 1,342,902; June 8; v. 275; p. 306.
Telephone system. C. L. Goodrum. No. 1,361,980; Dec. 14; v. 281; p. 247.
Telephone system. C. L. Goodrum. No. 1,362,096; Dec. 14; v. 281; p. 270.
Telephone system. G. Grabe. No. 1,343,714; June 15; v. 275; p. 529.
Telephone system. J. A. Hall. No. 1,360,738; Nov. 30; v. 280; p. 912.
Telephone system. R. C. M. Hastings. (Reissue.) No. 14,848; Apr. 27; v. 273; p. 763.
Telephone system. J. E. Hilbish. No. 1,337,976; Apr. 20; v. 273; p. 566.
Telephone system. L. H. Johnson. No. 1,353,910; Sept. 28; v. 278; p. 570.
Telephone system. C. W. Keckler. No. 1,333,758; Mar. 16; v. 272; p. 412.
Telephone system. C. W. Keckler. No. 1,335,739; Apr. 6; v. 273; p. 7.
Telephone system. A. E. Lundell. No. 1,333,026; Mar. 9; v. 272; p. 214.
Telephone system. A. E. Lundell. No. 1,334,307; Mar. 23; v. 272; p. 561.
Telephone system. A. E. Lundell. No. 1,337,712; Apr. 20; v. 273; p. 515.
Telephone system. A. E. Lundell. No. 1,363,334; Dec. 28; v. 281; p. 603.
Telephone system. A. E. Lundell and F. A. Stearn. No. 1,345,016; June 29; v. 275; p. 912.
Telephone system. A. E. Lundell and E. H. Clark. No. 1,362,020; Dec. 14; v. 281; p. 255.
Telephone system. E. R. Lundius. No. 1,329,001; Jan. 27; v. 270; p. 525.
Telephone system. J. L. McQuarrie. No. 1,337,713; Apr. 20; v. 273; p. 515.
Telephone system. J. L. McQuarrie. No. 1,337,715; Apr. 20; v. 273; p. 516.
Telephone system. J. L. McQuarrie. No. 1,353,601; Sept. 21; v. 278; p. 465.
Telephone system. J. L. McQuarrie. No. 1,356,643; Oct. 26; v. 279; p. 571.
Telephone system. W. H. Matthies. No. 1,334,311; Mar. 23; v. 272; p. 652.
Telephone system. W. H. Matthies. No. 1,362,126; Dec. 14; v. 281; p. 276.
Telephone system. W. T. Powell. No. 1,363,268; Dec. 28; v. 281; p. 590.
Telephone system. E. S. Pridham. No. 1,356,403; Oct. 19; v. 279; p. 477.
Telephone system. J. N. Reynolds and F. A. Stearn. No. 1,340,982; May 25; v. 274; p. 643.
Telephone system. F. Schoenwolf. No. 1,336,098; Apr. 6; v. 273; p. 75.
Telephone system. F. M. Slough. No. 1,351,799; Sept. 7; v. 278; p. 16.
Telephone system. F. M. Slough. No. 1,351,800; Sept. 7; v. 278; p. 17.

Digitized by Google

Telephone system. H. Steidle. No. 1,332,275; Mar. 2; v. 272; p. 19.
Telephone system. C. White. No. 1,352,568; Sept. 14; v. 278; p. 201.
Telephone system. D. F. Whiting. No. 1,327,185; Jan. 6; v. 270; p. 57.
Telephone system. R. S. Wilbur and W. H. Harrison. No. 1,337,676; Apr. 20; v. 273; p. 508.
Telephone system. G. A. Yanochowski. No. 1,344,195; June 22; v. 275; p. 687.
Telephone system, Automatic. H. P. Clausen. No. 1,340,934; May 25; v. 274; p. 633
Telephone system, Automatic. J. Erickson. No. 1,354,605; Oct. 5; v. 279; p. 32.
Telephone system, Automatic. H. C. Hershey. No. 1,338,370; Apr. 27; v. 273; p. 709.
Telephone system, Automatic. E. Jacobsen. No. 1,332,217; Mar. 2; v. 272; p. 8.
Telephone system, Automatic. E. Jacobsen. No. 1,346,093; July 6; v. 276; p. 152.
Telephone system, Automatic. E. Jacobsen. No. 1,349,381; Aug. 10; v. 277; p. 296.
Telephone system, Automatic. E. Jacobsen. No. 1,352,605; Sept. 14; v. 278; p. 208.
Telephone system, Automatic. A. E. Lundell and G. Thompson. No. 1,332,222; Mar. 2; v. 272; p. 9.
Telephone system, Automatic. T. G. Martin. No. 1,361,885; Dec. 14; v. 281; p. 228.
Telephone system, Automatic. T. G. Martin and E. Jacobsen. No. 1,347,584; July 27; v. 276; p. 623.
Telephone system, Automatic. T. E. Meyer. No. 1,351,531; Aug. 31; v. 277; p. 897.
Telephone system, Automatic. W. T. Powell. No. 1,337,324; Apr. 20; v. 273; p. 442.
Telephone system, Automatic. W. T. Powell. No. 1,350,882; Aug. 24; v. 277; p. 706.
Telephone system, Automatic. W. T. Powell. No. 1,356,010; Oct. 19; v. 279; p. 399.
Telephone system, Automatic. R. G. Richardson. No. 1,344,823; June 29; v. 275; p. 876.
Telephone system, Automatic. G. E. Schomaker. No. 1,355,917; Oct. 19; v. 279; p. 381.
Telephone system, Automatic. H. Symes. No. 1,353,673; Sept. 21; v. 278; p. 480.
Telephone system, Automatic. F. J. Truby. No. 1,343,989; June 22; v. 275; p. 648.
Telephone system, Automatic. F. M. Ward, L. C. Bygrave, and H. J. Herink. No. 1,359,940; Nov. 23; v. 280; p. 687.
Telephone system, Automatic. B. D. Willis. No. 1,345,054; June 29; v. 275; p. 919.
Telephone system, Automatic. G. A. Yanochowski. No. 1,347,069; July 20; v. 276; p. 465.
Telephone system, Associated-switchboard. W. S. Paca. No. 1,353,065; Sept. 14; v. 278; p. 299.
Telephone system, Automatic party-line. W. L. Campbell. No. 1,329,287; Jan. 27; v. 270; p. 579.
Telephone system, Code-ringing. T. G. Martin. (Reissue.) No. 14,863; May 25; v. 274; p. 767.
Telephone system, Common-battery automatic. T. G. Martin. No. 1,332,226; Mar. 2; v. 272; p. 9.
Telephone system for auditorium. H. M. Bascom. No. 1,358,053; Nov. 9; v. 280; p. 224.
Telephone system, High-tension. F. C. Doble. No. 1,350,922; Aug. 24; v. 277; p. 714.
Telephone system, Machine-switching. A. E. Lundell. No. 131,473; May 25; v. 274; p. 738.
Telephone system, Machine-switching. S. B. Williams, Jr. No. 1,340,907; May 25; v. 274; p. 646.
Telephone system, Measured-service. J. Erickson. No. 1,320,019; Feb. 3; v. 271; p. 126.
Telephone system, Measured-service. J. Erickson. No. 1,332,208; Mar. 2; v. 272; p. 6.
Telephone system, Measured-service. J. Erickson. No. 1,349,373; Aug. 10; v. 277; p. 295.
Telephone system, Measured-service. J. Erickson. No. 1,358,945; Nov. 16; v. 280; p. 447.
Telephone system, Measured-service. T. G. Martin. No. 1,350,875; Aug. 24; v. 277; p. 704.
Telephone system, Measured-service. W. W. Owen. No. 1,356,654; Oct. 26; v. 279; p. 573.
Telephone system, Measured-service. W. W. Owen. No. 1,386,655; Oct. 26; v. 279; p. 573.
Telephone system, Measured-service. W. W. Owen. No. 1,359,913; Nov. 23; v. 280; p. 681.
Telephone system, Railway. N. De Ritis. No. 1,357,622; Nov. 2; v. 280; p. 80.
Telephone system, Semi-automatic. M. Schwartz. No. 1,351,876; Sept. 7; v. 278; p. 33.
Telephone system, Semi-automatic. J. Wicks. No. 1,342,241; June 1; v. 275; p. 124.
Telephone system, Semi-automatic. G. A. Yanochowski and H. E. Hershey. No. 1,353,300; Sept. 21; v. 278; p. 404.
Telephone system, Semimechanical. W. G. Blauvelt. No. 1,359,482; Nov. 23; v. 280; p. 596.
Telephone system, Semimechanical. W. G. Blauvelt. No. 1,362,596; Dec. 21; v. 281; p. 419.
Telephone system, Semimechanical. A. M. Bullard. No. 1,334,077; Mar. 16; v. 272; p. 472.
Telephone system, Two-wire multiple automatic. B. G. Dunham. No. 1,339,175; May 4; v. 274; p. 97.
Telephone system, Two-wire party-line lockout. T. G. Martin. (Reissue.) No. 14,846; Apr. 20; v. 273; p. 569.
Telephone system, Wireless. L. de Forest. (Reissue.) No. 14,959; Oct. 19; v. 279; p. 497.
Telephone system with automatic ringing and automatic busy. H. D. Currier and H. W. Bryce. No. 1,354,891; Oct. 5; v. 279; p. 89.
Telephone systems, Automatic. T. G. Martin. No. 1,338,318; Apr. 27; v. 273; p. 700.
Telephone systems, Reverting-test circuit for. M. B. Stazak. No. 1,357,303; Nov. 2; v. 280; p. 20.
Telephone toll-circuit. J. F. Toomey. No. 1,348,909; Aug. 10; v. 277; p. 202.
Telephone-transformer. V. L. Smith. No. 1,339,793; May 11; v. 274; p. 290.
Telephone transmission system. P. M. Gardanier. No. 1,355,957; Oct. 19; v. 279; p. 389.
Telephone transmission system. R. S. Wilbur. No. 1,361,510; Dec. 7; v. 281; p. 107.
Telephone transmission system. R. S. Wilbur and R. F. Lovelee. No. 1,364,013; Dec. 28; v. 281; p. 734.
Telephone-transmitter. W. and J. Birrell. No. 1,341,837; June 1; v. 275; p. 44.
Telephone-transmitter. W. and J. Birrell. No. 1,342,581; June 8; v. 275; p. 243.
Telephone-transmitter. W. and J. Birrell. No. 1,342,582; June 8; v. 275; p. 243.
Telephone-transmitter. W. T. Booth. No. 1,352,939; Sept. 14; v. 278; p. 274.
Telephone-transmitter. P. L. Jensen. No. 1,332,873; Mar. 2; v. 272; p. 133.
Telephone-transmitter. A. R. Kahl. No. 1,334,541; Mar. 23; v. 272; p. 605.
Telephone-transmitter. H. Koch. No. 1,361,590; Dec. 7; v. 281; p. 123.
Telephone-transmitter. A. P. Pinkler. No. 1,330,391; Feb. 10; v. 271; p. 227.
Telephone-transmitter. S. C. Porter. No. 1,341,997; June 1; v. 275; p. 75.
Telephone-transmitter. G. K. Thompson. No. 1,354,229; Sept. 28; v. 278; p. 635.
Telephone-transmitter. E. C. Wente. No. 1,333,744; Mar. 16; v. 272; p. 410.
Telephone-transmitter mouthpiece. J. W. Harris. No. 1,334,093; Mar. 16; v. 272; p. 475.
Telephone-transmitters, Sanitary appliance for. S. T. Baer. No. 1,345,734; July 6; v. 276; p. 80.
Telephone trunk-circuits. G. W. Kuhn. No. 1,358,758; Nov. 16; v. 280; p. 410.
Telephone trunking system. T. G. Martin. (Reissue.) No. 14,954; Oct. 5; v. 279; p. 131.
Telephones, Germicide attachment for. J. A. Stransky. No. 1,329,557; Feb. 3; v. 271; p. 40.
Telephones, Sounding-chamber for thermic. P. de Lange and R. A. van Lynden. No. 1,328,620; Jan. 20; v. 270; p. 425.
Telephonic apparatus. I., A., and S. Berliner. No. 1,350,291; Aug. 24; v. 277; p. 591.
Telephonic apparatus. M. Weil. No. 1,345,049; June 29; v. 275; p. 919.
Telephonic call system. R. C. M. Hastings. No. 1,345,852; July 6; v. 276; p. 103.
Telephonic instruments, Rheostat for. H. Koch. No. 1,356,634; Oct. 26; v. 279; p. 569.
Telephonic messages, Arrangement for phonographically recording and reproducing. F. Seelau. No. 1,352,546; Sept. 14; v. 278; p. 196.
Telephonic receiver. N. A. Kurman. No. 1,356,156; Oct. 19; v. 279; p. 429.
Telephonic transmitter. B. S. Cohen. No. 1,356,190; Oct. 19; v. 279; p. 436.
Telephony, Multiple. E. Ruhmer. No. 1,356,222; Oct. 19; v. 279; p. 442.
Telescope. W. R. Ham. No. 1,339,386; May 11; v. 274; p. 212.
Telescope. M. Lichtman. No. 1,353,766; Sept. 21; v. 278; p. 498.
Telescope, Binocular-. K. A. Edstrom. No. 1,346,308; July 13; v. 276; p. 256.
Telescope, Flash-. R. W. Wood. No. 1,346,580; July 13; v. 276; p. 309.
Telescope, Folding. E. Norman. No. 1,348,730; Aug. 3; v. 277; p. 116.
Telescope-sight mount. T. D. Joeck. No. 1,361,063; Dec. 7; v. 281; p. 17.
Telescopes, Illuminating attachment for. E. L. Beck. No. 1,343,074; June 8; v. 275; p. 340.
Telescopic container. J. F. Powell. No. 1,344,716; June 29; v. 275; p. 855.
Telethermoscope. H. W. and H. Hardinge. No. 1,352,956; Sept. 14; v. 278; p. 278.
Teletypewriter or printing-telegraph. E. G. C. Lofgren. No. 1,348,430; Aug. 3; v. 277; p. 59.
Television and telephotographic apparatus. A. D. J. A. Voulgre. No. 1,329,688; Feb. 3; v. 271; p. 64.
Temperature and humidity, Apparatus and method for controlling. A. E. Stacey, Jr. No. 1,330,920; Feb. 17; v. 271; p. 395.
Temperature-controller. A. N. Otis. No. 1,353,665; Sept. 21; v. 278; p. 478.

Digitized by Google

Temperature-controller. A. Roesch. No. 1,333,221; Mar. 9; v. 272; p. 250.
Temperature-operated device. F. Amthor. No. 1,331,553; Feb. 24; v. 271; p. 533.
Temperature-regulator. V. F. Davis. No. 1,336,072; Apr. 6; v. 273; p. 69.
Temperature-regulator. W. M. Fulton. No. 1,358,071; Nov. 9; v. 280; p. 228.
Temperature-regulator. W. M. Fulton. No. 1,358,072; Nov. 9; v. 280; p. 228.
Temperature-regulator. W. M. Fulton. No. 1,358,073; Nov. 9; v. 280; p. 229.
Temperature-regulator. W. M. Fulton. No. 1,358,723; Nov. 16; v. 280; p. 403.
Temperature-regulator. J. Graziano. No. 1,352,364; Sept. 7; v. 278; p. 125.
Temperature-regulator. L. G. O'Donnell. No. 1,355,250; Oct. 12; v. 279; p. 212.
Temperature-regulator, Automatic. F. Osborn. No. 1,352,685; Sept. 14; v. 278; p. 224.
Temperature regulator, Fluid-. W. Hodgson. No. 1,337,701; Apr. 20; v. 273; p. 513.
Temperatures, Controlling. T. Lidberg. No. 1,327,207; Jan. 6; v. 270; p. 61.
Tempering springs, Apparatus for and method of. G. R. Lang. No. 1,362,708; Dec. 21; v. 281; p. 441.
Temple. G. H. Day. No. 1,340,879; May 25; v. 274; p. 623.
Templet. J. Mason. No. 1,362,726 Dec. 21; v. 281; p. 445.
Tempo-control device. A. G. Eyles. No. 1,328,870; Jan. 27; v. 270; p. 501.
Tenders, Body-bolster and drawing-casting for. F. E. Russell. No. 1,357,728; Nov. 2; v. 280; p. 100.
Tennis-ball. A. T. Saunders. (Reissue.) No. 14,832; Mar. 30; v. 272; p. 888.
Tennis-balls, Testing device for. R. S. Blair. No. 1,335,422; Mar. 30; v. 272; p. 831.
Tennis-net appliance. C. A. Robinson. No. 1,351,066; Aug. 31; v. 277; p. 805.
Tennis-racket. W. Richey. No. 1,333,876; Mar. 16; v. 272; p. 434.
Tennis-rackets, Protecting-holder for. A. F. Schenkelberger. No. 1,336,092; Apr. 6; v. 273; p. 78.
Tenometer. J. Many. No. 1,331,777; Feb. 24; v. 271; p. 575.
Tenoning and equalizing machine. W. F. McCarty. No. 1,337,143; Apr. 13; v. 273; p. 338.
Tension device. P. A. Bishop. No. 1,344,672; June 29; v. 275; p. 847.
Tension device. C. T. Evans. No. 1,343,910; June 22; v. 275; p. 633.
Tension device. J. F. Reardon and E. H. Kristek. No. 1,330,006; Feb. 3; v. 271; p. 123.
Tension-device protector. H. Mulnonen. No. 1,333,560; Mar. 9; v. 272; p. 314.
Tension-operated devices, Control mechanism for. R. D. Smith. No. 1,348,756; Aug. 3; v. 277; p. 120.
Tension, Spooler. C. O. Carter. No. 1,327,022; Jan. 6; v. 270; p. 27.
Tension thread-guide. S. S. Picard. No. 1,330,817; Feb. 17; v. 271; p. 374.
Tent. C. B. Robertson. No. 1,363,437; Dec. 28; v. 281; p. 622.
Tent. W. K. Smith. No. 1,342,234; June 1; v. 275; p. 122.
Tent. G. M. Webber. No. 1,338,058; Apr. 27; v. 273; p. 650.
Tent-pole. D. F. Whitt. No. 1,330,368; Feb. 10; v. 271; p. 222.
Tent and bed, Combined folding. H. W. Nelson. No. 1,335,456; Mar. 30; v. 272; p. 837.
Tent and hammock. L. E. Trimm. No. 1,343,800; June 15; v. 275; p. 546.
Tent, Collapsible. A. W. Hackfield. No. 1,335,332; Mar. 30; v. 272; p. 815.
Tent, Folding. F. Schilling, Sr. No. 1,345,108; June 29; v. 275; p. 930.
Tent-frame, Collapsible. J. L., J. P., and J. McCann. No. 1,347,107; July 20; v. 276; p. 472.
Tentering-clip. F. Hinnekens. No. 1,339,509; May 11; v. 274; p. 236.
Test-clip. G. H. Rempes. No. 1,351,343; Aug. 31; v. 277; p. 860.
Test-pieces, Grip for. J. G. Morrow. No. 1,341,431; May 25; v. 274; p. 730.
Testing. D. J. McAdam, Jr. No. 1,329,1[illegible]; Jan. 27; v. 270; p. 561.
Testing and tuning apparatus. J. Galleazzi. No. 1,356,706; Oct. 26; v. 279; p. 583.
Testing apparatus. G. O. Berger. No. 1,343,611; June 15; v. 275; p. 508.
Testing apparatus. C. S. Demarest and H. F. Shoffstall. No. 1,361,026; Dec. 7; v. 281; p. 9.
Testing apparatus. W. W. Gramer. No. 1,349,831; Aug. 17; v. 277; p. 456.
Testing apparatus. J. A. D. Herrington. No. 1,350,368; Aug. 24; v. 277; p. 606.
Testing device. M. W. Davis. No. 1,336,424; Apr. 13; v. 273; p. 196.
Testing device. F. E. Harpst. No. 1,337,132; Apr. 13; v. 273; p. 331.
Testing device. H. L. Scott. No. 1,335,402; Mar. 30; v. 272; p. 828.
Testing device, Electrical. R. C. Bierbower. No. 1,335,646; Mar. 30; v. 272; p. 873.
Testing device, Electrical. R. C. Bierbower. No. 1,335,647; Mar. 30; v. 272; p. 873.
Testing instrument, Electrical. E. G. Buresch. No. 1,363,491; Dec. 28; v. 281; p. 633.
Testing-machine. W. J. Francke. No. 1,335,887; Apr. 6; v. 273; p. 34.
Testing-machine. C. G. Olson. No. 1,357,813; Nov. 2; v. 280; p. 117.
Testing-machine. R. B. Price. No. 1,347,291; July 20; v. 276; p. 508.
Testing-machine. J. S. Stull. No. 1,336,543; Apr. 13; v. 273; p. 218.
Testing machine, Fabric-. A. E. Jury. No. 1,327,393; Jan. 6; v. 270; p. 96.
Testing, Machine for. A. P. Malysheff. No. 1,348,026; July 27; v. 276; p. 711.
Testing-machine, Portable. F. Figari. No. 1,332,491; Mar. 2; v. 272; p. 61.
Textile machinery, Cloth-clamp for. W. S. Rowley. No. 1,333,134; Mar. 9; v. 272; p. 234.
Testing pole-windings, Device for. J. F. Cullin. No. 1,345,075; June 29; v. 275; p. 923.
Testing process. M. A. Laabs. No. 1,339,031; May 4; v. 274; p. 71.
Testing system. T. H. S. Cone. No. 1,350,358; Aug. 24; v. 277; p. 605.
Testing system. R. D. Conway. No. 1,340,936; May 25; v. 274; p. 633.
Testing system, Electrical. H. P. Clausen. No. 1,340,933; May 25; v. 274; p. 633.
Testing system, process, and machine. A. B. Hazard. No. 1,341,463; May 25; v. 274; p. 736.
Tetrachlorid, Making silicon. R. W. Moore. No. 1,350,932; Aug. 24; v. 277; p. 716.
Textile-disintegrating machine. F. von Osten. No. 1,355,518; Oct. 12; v. 279; p. 264.
Textile-fabric manufacture. W. Scholes. No. 1,363,280; Dec. 28; v. 281; p. 593.
Textile fibers, Producing. R. A. Marr. No. 1,362,723; Dec. 21; v. 281; p. 444.
Textile-treating device. H. M. Dudley. No. 1,334,529; Mar. 23; v. 272; p. 603.
Thawing ground. J. H. Miles. No. 1,339,036; May 4; v. 274; p. 72.
Theater-chair, Folding. B. Funk. No. 1,358,194; Nov. 9; v. 280; p. 252.
Theater-chair. V. F. Linke. No. 1,336,641; Apr. 13; v. 273; p. 286.
Theater-chair. O. F. Wasmansdorff. No. 1,363,940; Dec. 28; v. 281; p. 720.
Theater-chair construction. R. Travers. No. 1,351,268; Aug. 31; v. 277; p. 844.
Theater-curtain-operating mechanism. W. Lemle. No. 1,340,066; May 11; v. 274; p. 341.
Theatrical appliance. L. McCormick. No. 1,350,614; Aug. 24; v. 277; p. 656.
Theatrical device. R. J. Pomeroy. No. 1,332,918; Mar. 9; v. 272; p. 193.
Therapeutic apparatus for treatment of the lower portion of the body. V. L. Ruiter. No. 1,337,798; Apr. 20; v. 273; p. 531.
Thermal-controlled circulating system. C. L. Rayfield. No. 1,335,391; Mar. 30; v. 272; p. 825.
Thermal switch. H. W. Webb. No. 1,330,753; Feb. 10; v. 271; p. 294.
Thermal time-switch. G. Rathman. No. 1,355,847; Oct. 19; v. 279; p. 308.
Thermionic amplifier. H. D. Arnold. No. 1,329,283; Jan. 27; v. 270; p. 578.
Thermionic currents, Method of and means for utilizing. H. D. Arnold. No. 1,349,252; Aug. 10; v. 277; p. 271.
Thermionic device. H. J. Round. No. 1,361,090; Dec. 7; v. 281; p. 24.
Thermo-couples, Compensating device for. C. B. Thwing. No. 1,344,462; June 22; v. 275; p. 741.
Thermo-insulation material and producing same. T. B. Munroe. No. 1,335,909; Apr. 6; v. 273; p. 39.
Thermodynamically-controlled switch. M. H. Baker. No. 1,334,211; Mar. 16; v. 272; p. 496.
Thermometer. L. Martin and E. L. Underwood. No. 1,361,271; Dec. 7; v. 281; p. 57.
Thermometer. H. P. Milker. No. 1,333,813; Mar. 16; v. 272; p. 422.
Thermometer. H. P. Milker. No. 1,345,687; July 6; v. 276; p. 70.
Thermometer. H. P. Milker. No. 1,345,795; July 6; v. 276; p. 92.
Thermometer. H. P. Milker and C. E. A. Groubech. No. 1,363,803; Dec. 28; v. 281; p. 694.
Thermometer. H. Y. Norwood. No. 1,326,957; Jan. 6; v. 270; p. 15.
Thermometer. R. F. Schneider. No. 1,348,749; Aug. 3; v. 277; p. 119.
Thermometer. L. B. Swift. No. 1,356,175; Oct. 19; v. 279; p. 433.
Thermometer-case. W. A. Black. No. 1,333,601; Mar. 16; v. 272; p. 382.

Digitized by Google

Thermometer, Clinical. C. L. Johnson. No. 1,358,372; Nov. 9; v. 280; p. 288.
Thermometer-cover. D. H. Mills. No. 1,363,259; Dec. 28; v. 281; p. 589.
Thermometer-holder. L. V. Northrop. No. 1,357,893; Nov. 2; v. 280; p. 132.
Thermometer-holder. H. J. Richards. No. 1,339,288; May 4; v. 274; p. 117.
Thermometer, Luminous. G. P. Pitkin. No. 1,338,524; Apr. 27; v. 273; p. 738.
Thermometer, Metastatic. E. N. Hurlbert. No. 1,350,158; Aug. 17; v. 277; p. 519.
Thermometer operated by the pressure of saturated vapor. L. P. X. Jeannet. No. 1,343,454; June 15; v. 275; p. 477.
Thermometer-tubes, Filling. L. F. Chaney. No. 1,345,347; July 6; v. 276; p. 4.
Thermometers, Casing for metal. E. P. Cole. No. 1,348,210; Aug. 3; v. 277; p. 15.
Thermophone-blanks, Machine for making. A. M. van Doorn. No. 1,338,886; May 4; v. 274; p. 43.
Thermophones, Machine for finishing. A. M. van Doorn. No. 1,338,887; May 4; v. 274; p. 44.
Thermophones, Making. A. M. van Doorn. No. 1,338,888; May 4; v. 274; p. 44.
Thermostat. J. Brombacher. No. 1,329,650; Feb. 3; v. 271; p. 57.
Thermostat. F. J. Heideman. No. 1,336,518; Apr. 13; v. 273; p. 213.
Thermostat. J. F. D. Hoge. No. 1,329,122; Jan. 27; v. 270; p. 548.
Thermostat. G. E. Lee. No. 1,338,024; Apr. 27; v. 273; p. 644.
Thermostat. A. J. Otto. No. 1,337,529; Apr. 20; v. 273; p. 480.
Thermostat. A. G. Stephenson. No. 1,337,628; Apr. 20; v. 273; p. 498.
Thermostat. G. W. Williamson. No. 1,363,072; Dec. 21; v. 281; p. 512.
Thermostat, Adjustable. L. G. Copeman. No. 1,349,364; Aug. 10; v. 277; p. 293.
Thermostat, Circuit-closing. J. N. Vandegrift. No. 1,348,338; Aug. 3; v. 277; p. 41.
Thermostat, Electrical. A. Goldstein. No. 1,328,427; Jan. 20; v. 270; p. 388.
Thermostat, High-temperature. A. J. Otto. No. 1,337,367; Apr. 20; v. 273; p. 450.
Thermostat system. F. Thornton, Jr. No. 1,335,139; Mar. 30; v. 272; p. 779.
Thermostatic circuit-closer. J. M. Johnson. No. 1,357,325; Nov. 2; v. 280; p. 24.
Thermostatic control device. G. W. Collin. No. 1,360,251; Nov. 23; v. 280; p. 748.
Thermostatic control device. J. L. Fitts. No. 1,347,689; July 27; v. 276; p. 644.
Thermostatic control for cooling mediums. F. A. Hurlbut. No. 1,348,420; Aug. 3; v. 277; p. 57.
Thermostatic regulator. C. I. Hall. No. 1,347,329; July 20; v. 276; p. 516.
Thermostatic switch. J. Rios. No. 1,350,183; Aug. 17; v. 277; p. 524.
Thermostatic systems, Electrothermic motor for. E. E. Gold. No. 1,337,764; Apr. 20; v. 273; p. 525.
Thermostatic tube and connection therefor. B. E. Meacham. No. 1,330,600; Feb. 10; v. 271; p. 265.
Thermostatically-controlled device. R. D. Smith. No. 1,350,573; Aug. 24; v. 277; p. 648.
Thermotherapeutic appliance. A. Blume. No. 1,355,382; Oct. 12; v. 279; p. 237.
Thickener. J. V. Dorr. No. 1,356,608; Oct. 26; v. 279; p. 564.
Thickener and means for removing settled solids therefrom. C. Allen. No. 1,355,071; Oct. 5; v. 279; p. 124.
Thickening mixtures, Apparatus for continuously. A. L. Genter. No. 1,359,162; Nov. 16; v. 280; p. 487.
Thickness-gage. H. B. Bartlett. No. 1,350,769; Aug. 24; v. 277; p. 685.
Thimble-clamp. E. P. Stevens. No. 1,358,892; Nov. 16; v. 280; p. 437.
Thimble, Last-. W. H. Needham. No. 1,327,839; Jan. 13; v. 270; p. 241.
Thimble, Splicing-. M. J. Bray. No. 1,327,856; Jan. 13; v. 270; p. 243.
Thimble, Stovepipe-. L. E. Jarrett. No. 1,333,486; Mar. 9; v. 272; p. 300.
Thimble, Tap-attaching. F. E. Rice. No. 1,329,141; Jan. 27; v. 270; p. 552.
Thistle-eradicator. L. Mayer. No. 1,358,323; Nov. 9; v. 280; p. 278.
Thorium, Art of recovering. O. N. Berndt. No. 1,329,747; Feb. 3; v. 271; p. 75.
Thorium from the other metals of the rare earths, Separating. O. Dietsche. No. 1,335,157; Mar. 30; v. 272; p. 783.
Thorium from other rare earths and manufacture of thorium nitrate and other thorium salts, Separating. J. V. Clarke. No. 1,335,482; Mar. 30; v. 272; p. 842.
Thorium, Recovery of. L. W. Ryan. No. 1,351,489; Aug. 31; v. 277; p. 888.
Thorn stripper and cutter, Combined. F. J. Bertrand. No. 1,359,148; Nov. 16; v. 280; p. 484.
Thread-box. H. V. D. Crumbaugh. No. 1,354,598; Oct. 5; v. 279; p. 30.
Thread-breaking device. A. E. Ekdahl. No. 1,356,275; Oct. 19; v. 279; p. 452.
Thread controller, Filling-. F. Lacey. No. 1,350,618; Aug. 24; v. 277; p. 655.
Thread-controlling mechanism. D. Hawley. No. 1,347,810; July 27; v. 276; p. 668.
Thread-cutter. K. C. Cade. No. 1,329,365; Feb. 3; v. 271; p. 5.
Thread-cutter. H. S. Carson. No. 1,349,320; Aug. 10; v. 277; p. 284.
Thread-cutter. L. G. Fritz. No. 1,348,276; Aug. 3; v. 277; p. 29.
Thread-cutting machine. A. Strukell. No. 1,354,078; Sept. 28; v. 278; p. 604.
Thread-cutting tool. P. W. Britts. No. 1,362,840; Dec. 21; v. 281; p. 467.
Thread-gage. G. B. Lockey and A. F. Lawson. No. 1,337,018; Apr. 13; v. 273; p. 309.
Thread-gage. C. L. Pettibone. No. 1,339,573; May 11; v. 274; p. 248.
Thread-gages, Manufacture of. J. Samotej. No. 1,344,607; June 22; v. 275; p. 770.
Thread-guiding device. A. L. Hansen. No. 1,340,541; May 18; v. 274; p. 488.
Thread-handling machine. W. A. Smith. No. 1,356,795; Oct. 26; v. 279; p. 600.
Thread-holder. C. Davis. No. 1,336,554; Apr. 13; v. 273; p. 220.
Thread-holder. C. H. Hoofnagle. No. 1,336,903; Apr. 13; v. 273; p. 288.
Thread-holder. T. J. Lineback. No. 1,363,255; Dec. 28; v. 281; p. 588.
Thread holding and cutting attachment for spools. L. M. Pfunder. No. 1,350,881; Aug. 24; v. 277; p. 706.
Thread-milling machine. C. H. Schurr and E. J. Lees. No. 1,355,854; Oct. 19; v. 279; p. 369.
Thread package or holder. R. Reynolds. No. 1,343,934; June 22; v. 275; p. 637.
Thread parting and clamping mechanism. J. Northrop. No. 1,352,083; Sept. 7; v. 278; p. 72.
Thread-protector. E. James. No. 1,361,525; Dec. 7; v. 281; p. 111.
Thread-protector and making same. P. J. Shrum. No. 1,347,765; July 27; v. 276; p. 660.
Thread-retainer. R. J. Wilson. No. 1,360,342; Nov. 30; v. 280; p. 834.
Thread-tension device. H. H. Gove. No. 1,361,716; Dec. 7; v. 281; p. 148.
Thread-tension gage. J. H. Messinger and A. E. Tetu. No. 1,359,449; Nov. 16; v. 280; p. 544.
Thread-tensioning device. L. Veilleux and P. H. Leveque. No. 1,356,026; Oct. 19; v. 279; p. 403.
Thread-testing device. J. H. Wilhelm. No. 1,359,943; Nov. 23; v. 280; p. 687.
Thread-trimming and stopping and starting mechanism. H. C. Miller. No. 1,359,414; Nov. 16; v. 280; p. 537.
Thread-twisting machine. A. E. Jury. No. 1,350,812; Aug. 24; v. 277; p. 694.
Thread-waxing device. A. R. Morrill. No. 1,333,766; Mar. 16; v. 272; p. 414.
Threads, Apparatus for hard twisting of fine and thick. H. P. Mittet. No. 1,352,524; Sept. 14; v. 278; p. 191.
Threads, Machine for twisting and setting. C. Hertel and J. Simpson. No. 1,330,534; Feb. 10; v. 271; p. 254.
Threads, Method and apparatus for cutting left-handed. E. Ibach. No. 1,338,083; Apr. 27; v. 273; p. 655.
Threads, Method of and apparatus for straightening weft-. J. Lowe and J. J. Lyth. (Reissue.) No. 14,979; Nov. 9; v. 280; p. 352.
Threads, Work-holder for milling. L. Court. No. 1,343,435; June 15; v. 275; p. 473.
Threading attachment. C. A. Johnson. No. 1,354,305; Sept. 28; v. 278; p. 650.
Threading-die mechanism. A. A. Shafer. No. 1,345,709; July 6; v. 276; p. 75.
Threading-machine. W. E. Elliott. No. 1,336,777; Apr. 13; v. 273; p. 263.
Threading-machine. F. Müller. No. 1,347,788; July 27; v. 276; p. 664.
Threshers, Sheaf-distributer for. R. B. Mason. No. 1,341,238; May 25; v. 274; p. 692.
Threshing-machine. J. E. Gross. No. 1,342,806; June 8; v. 275; p. 287.
Threshing-machine. J. L. Harrington. No. 1,350,452; Aug. 24; v. 277; p. 624.
Threshing-machine. H. V. McKay. No. 1,352,821; Sept. 14; v. 278; p. 252.
Threshing-machine. G. H. Pekrul. No. 1,333,278; Mar. 9; v. 272; p. 260.
Threshing-machine. G. A. Stanfield and C. Scroggin. No. 1,350,085; Aug. 17; v. 277; p. 505.
Threshing-machine. O. Steinborn. No. 1,344,599; June 22; v. 275; p. 768.
Threshing-machine attachment. J. T. Smith. No. 1,350,847; Aug. 24; v. 277; p. 700.
Threshing machine, Flax-. B. S. Summers. No. 1,327,297; Jan. 6; v. 270; p. 78.
Threshing-machine screens or riddles, Cleaner for. F. A. Bradshaw and C. C. Willis. No. 1,331,614; Feb. 24; v. 271; p. 545.

Digitized by Google

Alphabetical list of inventions—Continued.

Threshing-machine teeth, Shoe for. W. F. Hamilton. No. 1,341,230; May 25; v. 274; p. 691.
Threshing-machines, Adjustable screen for. R. G. Steele. No. 1,348,668; Aug. 3; v. 277; p. 104.
Threshing-machines, Auxiliary floors for. G. B. Lundy. No. 1,338,142; Apr. 27; v. 273; p. 666.
Threshing-machines, Discharging device for. G. D. Feick. No. 1,331,007; Feb. 17; v. 271; p. 412.
Threshing-machines, Feed mechanism for. J. N. Shanks. No. 1,342,574; June 8; v. 275; p. 241.
Threshing-machines, &c., Leveling device for. A. L. Dutton. No. 1,328,370; Jan. 20; v. 270; p. 878.
Threshing-machines, Sieve for. D. E. Hoffman. No. 1,327,325; Jan. 6; v. 270; p. 83.
Threshold. A. J. Dubee. No. 1,348,396; Aug. 3; v. 277; p. 52.
Throttle-control apparatus, Foot-operated. A. P. Ballerino. No. 1,335,314; Mar. 30; v. 272; p. 811.
Throttle-controller, Auxiliary. R. S. Brickey. No. 1,351,882; Sept. 7; v. 278; p. 23.
Throttle-controlling mechanism. L. L. Scott. No. 1,343,750; June 15; v. 275; p. 536.
Throttle-operating mechanism. J. H. Ault and J. T. Heaton. No. 1,331,408; Feb. 17; v. 271; p. 486.
Throttle-switch. L. L. Brooks. No. 1,333,603; Mar. 16; v. 272; p. 383.
Throw-out mechanism. E. E. Winkley. No. 1,334,477; Mar. 23; v. 272; p. 593.
Throw-out mechanism. E. E. Winkley. No. 1,334,478; Mar. 23; v. 272; p. 593.
Thumb-hole-cutting appliance. J. A. Stock. No. 1,360,048; Nov. 23; v. 280; p. 708.
Thumb-sucking preventer. E. B. Kelly. No. 1,345,783; July 6; v. 276; p. 90.
Thymol, Synthetic manufacture of. M. Phillips. No. 1,332,680; Mar. 2; v. 272; p. 96.
Ticket, Clothing-. J. A. Keller. No. 1,345,782; July 6; v. 276; p. 89.
Ticket, Clothing-. J. Knorr. No. 1,362,328; Dec. 14; v. 281; p. 316.
Ticket-dispensing device. P. C. Harbaugh. No. 1,339,823; May 11; v. 274; p. 295.
Ticket-dispensing device, Roll-. J. S. Arcus. No. 1,332,194; Mar. 2; v. 272; p. 3.
Ticket-dispensing machine. J. F. Dwyer. No. 1,334,653; Mar. 23; v. 272; p. 626.
Ticket-dispensing machine, Automatic. J. L. Gore. No. 1,337,837; Apr. 20; v. 273; p. 539.
Ticket-holder. F. E. McDonald. No. 1,344,420; June 22; v. 275; p. 782.
Ticket holder, Railway-passenger-. W. Levy. No. 1,340,724; May 18; v. 274; p. 523.
Ticket holder, Reversible railway-. W. Levy. No. 1,348,569; June 15; v. 275; p. 500.
Ticket-issuing device. J. F. and J. F. Ohmer, Jr. No. 1,346,970; July 20; v. 276; p. 445.
Ticket-issuing register, Multiple-. F. L. Fuller. No. 1,340,221; May 18; v. 274; p. 428.
Ticket machine, Pin-. H. Heine. No. 1,339,887; May 11; v. 274; p. 307.
Ticket-machine. L. P. Wright. No. 1,357,372; Nov. 2; v. 280; p. 33.
Ticket, Mileage-. P. J. Mitten. No. 1,347,867; July 27; v. 276; p. 680.
Ticket, Pin-. M. O. Anthony. No. 1,327,010; Jan. 6; v. 270; p. 25.
Ticket printing and issuing machine. H. A. Martin. No. 1,338,238; Apr. 27; v. 273; p. 684.
Ticket, Railway-. G. A. Smiley. No. 1,341,346; May 25; v. 274; p. 713.
Ticket, Railway-fare-receipt. C. W. Heath and W. P. Conlin. No. 1,354,297; Sept. 28; v. 278; p. 648.
Ticket-seller's case. A. Fellheimer. No. 1,333,610; Mar. 16; v. 272; p. 384.
Ticket, Shipping-. C. F. Handshy and W. P. Potter. No. 1,338,770; May 4; v. 274; p. 23.
Ticket-taker, Mechanical. W. J. Harvie. No. 1,335,963; Apr. 6; v. 273; p. 49.
Ticket, Train-check railway-. G. S. Sowers. No. 1,353,286; Sept. 21; v. 278; p. 402.
Ticket, Transfer-. E. E. Hyland. No. 1,338,018; Apr. 27; v. 273; p. 643.
Tickets, Device for dispensing. J. F. Dwyer. No. 1,332,386; Mar. 2; v. 272; p. 41.
Ticketing machine, Numbering attachment for pin-. G. W. Henry, Jr. No. 1,352,950; Sept. 14; v. 278; p. 278.
Tide or backwater gate. C. H. Dodd. No. 1,334,854; Mar. 23; v. 272; p. 570.
Tide-water power. P. J. Rennolds. No. 1,333,443; Mar. 9; v. 272; p. 292.
Tie: *See*—

Bale-tie.	Rail-tie.
Box-tie.	Railway-tie.
Concrete tie.	Railway cross-tie.
Creepless metallic tie.	Steel tie.
Metallic tie.	Steel vise-tie.
Metallic railway-tie.	Umbilical-cord tie.
Package-tie.	

Tie. J. H. Bacon. No. 1,329,692; Feb. 3; v. 271; p. 65.
Tie. W. E. Morris. No. 1,356,460; Oct. 19; v. 279; p. 488.
Tie. A. M. Snidrowski. No. 1,351,849; Aug. 31; v. 277; p. 350.
Tie and fastener. J. G. Bennett. No. 1,333,894; Mar. 16; v. 272; p. 437.
Tie and rail-fastener. H. A. Berquist. No. 1,329,879; Feb. 3; v 271; p. 100.
Tie and rail fastener, Metal. R. H. Worrell. No. 1,341,609; May 25; v. 274; p. 764.
Tie and rail-fastening. A. S. Dreibelbis. No. 1,362,608; Dec. 21; v. 281; p. 421.
Tie and rail-holder. J. Ahlby. No. 1,360,860; Nov. 30; v. 280; p. 935.
Tie-clip. W. E. Kennison. No. 1,358,560; Nov. 9; v. 280; p. 326.
Tie-fastener and soft-collar retainer, Combined. H. I. Felix. No. 1,359,495; Nov. 23; v. 280; p. 598.
Tie-holder. A. W. Deshane. No. 1,340,755; May 18; v. 274; p. 528.
Tie-holder. R. J. Lewers. No. 1,363,888; Dec. 28; v. 281; p. 710.
Tie-holding pin. G. Wotherspoon. No. 1,333,362; Mar. 9; v. 272; p. 277.
Tie-mold. F. C. Shearer. No. 1,331,944; Feb. 24; v. 271; p. 607.
Tie-plate. F. E. Fitzpatrick. No. 1,338,431; Apr. 27; v. 273; p. 720.
Tie-plate. C. T. Grimm. No. 1,343,262; June 15; v. 275; p. 440.
Tie-plate. J. Lundie. No. 1,333,860; Mar. 16; v. 272; p. 431.
Tie-plate. A. Morrison. No. 1,348,370; Aug. 3; v. 277; p. 48.
Tie-plate. A. Morrison. No. 1,357,178; Oct. 26; v. 279; p. 675.
Tie-plate. A. Morrison. No. 1,357,179; Oct. 26; v. 279; p. 675.
Tie-plate. F. Sowinsky. No. 1,345,413; July 6; v. 276; p. 17.
Tie-plate and rail-brace, Combined. D. F. Vaughan. No. 1,342,194; June 1; v. 275; p. 114.
Tie-plate, Rail-anticreeper. W. H. Cleveland. No. 1,346,398; July 13; v. 276; p. 272.
Tie-plug machine. L. W. Wilson. No. 1,348,126; July 27; v. 276; p. 731.
Tie-presser. W. B. Munt. No. 1,338,189; Apr. 27; v. 273; p. 675.
Tie-retainer. G. Fruth. No. 1,361,149; Dec. 7; v. 281; p. 33.
Tie-spacer. P. McGuire. No. 1,346,225; July 13; v. 276; p. 238.
Tiering-machine. W. E. Boehck. No. 1,342,982; June 8; v. 275; p. 321.
Tile, Building-. C. Payne. No. 1,356,940; Oct. 26; v. 279; p. 629.
Tile-cutters, Off-bearing mechanism for. A. G. Hague. No. 1,361,985; Dec. 14; v. 281; p. 244.
Tile, Drain-. H. R. Straight. No. 1,351,878; Sept. 7; v. 278; p. 33.
Tile, Hollow. R. S. Requa. No. 1,341,071; May 25; v. 274; p. 660.
Tile, Hollow wall-. W. J. Burke. No. 1,358,055; Nov. 9; v. 280; p. 225.
Tile, Irrigation-. C. O. Lee. No. 1,350,229; Aug. 17; v. 277; p. 533.
Tile-machines, Filler-body for packer-heads of. F. A. Roosa. No. 1,355,913; Oct. 19; v. 279; p. 380.
Tile-machines, Self-sharpening adjustable packer-head plate for. J. Vogt. No. 1,328,699; Jan. 20; v. 270; p. 439.
Tile, Manufacture of hollow. F. Dochnal. No. 1,348,932; Aug. 10; v. 277; p. 207.
Tile, Mold for making building-. L. H. de Fernelmont. No. 1,342,208; June 1; v. 275; p. 117.
Tile, Roofing-. A. Lovell. No. 1,354,050; Sept. 28; v. 278; p. 598.
Tile, Roofing-. J. M. Martin. No. 1,339,033; May 4; v. 274; p. 71.
Tile, Roofing and fastening means therefor. W. I. Chapman. No. 1,353,807; Sept. 21; v. 278; p. 505.
Tile-trench digger. L. H. Larson. No. 1,327,335; Jan. 6; v. 270; p. 84.
Tiles, Device for making multicolored. A. Cotoll. No. 1,328,367; Jan. 20; v. 270; p. 877.
Tiling, Method and apparatus for assembling and attaching. W. J. Kent. No. 1,350,410; Aug. 24; v. 277; p. 615.
Tillage-blade. C. E. Curtiss. No. 1,336,821; Apr. 13; v. 273; p. 272.
Tilling-machine. L. J. Qvarnstrom. No. 1,362,895; Dec. 21; v. 281; p. 477.
Tilting table. G. Anderson. No. 1,331,041; Feb. 17; v. 271; p. 419.
Timber. Apparatus for piercing. P. J. Howe. No. 1,346,126; July 13; v. 276; p. 220.
Timber-cutters, Saw-guide for. N. Lundin. No. 1,327,054; Jan. 6; v. 270; p. 33.
Timber-cutting machine. J. R. Davenport. No. 1,338,977; May 4; v. 274; p. 60.
Timber, Treating. H. K. Hess. No. 1,344,891; June 29; v. 275; p. 889.
Timbers, Fastening bracket for the mitered ends of. E. Wirth. No. 1,352,335; Sept. 7; v. 278; p. 119.

Digitized by Google

Time-announcer, Phonographic. J. G. Blessing. No. 1,343,302; June 15; v. 275; p. 447.
Time-computing apparatus. C. Corliss. No. 1,347,014; July 20; v. 276; p. 454.
Time-controlled dead-locking device. R. C. Lewis. No. 1,337,083; Apr. 13; v. 273; p. 822.
Time-controlled light. J. M. Terzich. No. 1,339,236; May 4; v. 274; p. 108.
Time-controlled mechanism. R. H. Berkstresser. No. 1,337,037; Apr. 13; v. 273; p. 813.
Time-controlled mechanism. M. H. Suren. No. 1,346,858; July 20; v. 276; p. 422.
Time-controlled starting means. F. Cirelli. No. 1,345,584; July 6; v. 276; p. 50.
Time-controlled switch. L. L. Fuller. No. 1,340,039; May 11; v. 274; p. 336.
Time-controlling mechanism. W. K. Menns. No. 1,360,308; Nov. 30; v. 280; p. 827.
Time-detector, Watchman's. P. Moosmann. No. 1,351,056; Aug. 31; v. 277; p. 803.
Time-lock. A. A. Mancini. No. 1,347,047; July 20; v. 276; p. 461.
Time-lock. J. S. Ray. No. 1,352,694; Sept. 14; v. 278; p. 226.
Time-piece, Recording-. W. K. Menns. No. 1,354,674; Oct. 5; v. 279; p. 46.
Time-recorder. W. J. Carroll. No. 1,354,801; Oct. 5; v. 279; p. 72.
Time-recorder. H. T. Goss. No. 1,348,218; Aug. 3; v. 277; p. 17.
Time recorder, Elapsed-. J. I. Liner. No. 1,332,907; Mar. 9; v. 272; p. 191.
Time-recorder, Watchman's. W. J. Tidd. No. 1,340,578; May 18; v. 274; p. 495.
Time-recorders, Elimination device for. C. E. Larrabee. No. 1,357,461; Nov. 2; v. 280; p. 49.
Time register, Elapsed. E. S. Phelps. No. 1,356,883; Oct. 26; v. 279; p. 618.
Time-switch. D. H. Darrin. No. 1,346,114; July 13; v. 276; p. 217.
Time-switch, Electric. M. H. Rhodes. No. 1,353,850; Sept. 28; v. 278; p. 558.
Time-switch, Electrical. M. H. J. T. Björnsen. No. 1,335,709; Mar. 30; v. 272; p. 885.
Timepieces, Pin-anchor escapement for. T. Toda. No. 1,343,798; June 15; v. 275; p. 546.
Timer. F. C. Hersee. No. 1,338,015; Apr. 27; v. 273; p. 642.
Timer. J. A. Holm. No. 1,344,395; June 22; v. 275; p. 727.
Timer. A. W. Holway. No. 1,357,455; Nov. 2; v. 280; p. 48.
Timer. C. S. Jordan. No. 1,354,655; Oct. 5; v. 279; p. 42.
Timer. W. C. Karnes. No. 1,347,636; July 27; v. 276; p. 633.
Timer. E. S. Rush. No. 1,332,637; Mar. 2; v. 272; p. 89.
Timer. W. W. Schubert. No. 1,340,121; May 11; v. 274; p. 352.
Timer. R. J. Traupmann. No. 1,338,049; Apr. 27; v. 273; p. 649.
Timer and distributer, Combined. G. L. Lang. No. 1,356,532; Oct. 26; v. 279; p. 549.
Timer attachment. N. Isachson. No. 1,336,296; Apr. 6; v. 273; p. 112.
Timer, Automatic. I. L. Slawter. No. 1,337,282; Apr. 20; v. 273; p. 434.
Timer device. W. D. Heath. No. 1,361,256; Dec. 7; v. 281; p. 54.
Timer, Ignition-. W. Kaisling. No. 1,363,512; Dec. 28; v. 281; p. 637.
Timers, Lubricant-retaining cap for. H. C. West. No. 1,351,818; Sept. 7; v. 278; p. 21.
Timers, Rotor for. W. F. Service. No. 1,334,177; Mar. 16; v. 272; p. 490.
Timing apparatus. I. B. Smith. No. 1,337,335; Apr. 20; v. 273; p. 444.
Timing device. R. H. Clifton. No. 1,356,968; Oct. 26; v. 279; p. 634.
Timing device. J. D. Reed. No. 1,345,402; July 6; v. 276; p. 15.
Timing device, Automatic. C. L. Kasson. No. 1,332,844; Mar. 2; v. 272; p. 128.
Timing-device casing. J. Lorber and H. L. Hill. No 1,330,984; Feb. 17; v. 271; p. 408.
Timing mechanism. O. Z. Brewer. No. 1,358,186; Nov. 9; v. 280; p. 250.
Timing mechanism. O. Z. Brewer. No. 1,358,187; Nov. 9; v. 280; p. 251.
Timing mechanism for intermittently-fed machines. C. P. Wetmore. No. 1,338,761; May 4; v. 274; p. 21.
Tin and canister, Air-tight. W. J. Fryer. No. 1,333,910; Mar. 16; v. 272; p. 440.
Tin, Buggy and rack for handling. J. S. Dayton. No. 1,333,472; Mar. 9; v. 272; p. 298.
Tin-doubling machine. A. Vannucci. No. 1,355,720; Oct. 12; v. 279; p. 303.
Tin from stanniferous waste products, Recovering. T. A. Eklund. No. 1,359,494; Nov. 23; v. 280; p. 598.
Tin, Oxidation of. D. de Ros. No. 1,362,237; Dec. 14; v. 281; p. 298.
Tins, Machine for labeling cylindrical. A. M. Nichols. No. 1,355,783; Oct. 12; v. 279; p. 272.
Tins, Treatment of waste. E. J. Lovegrove. No. 1,363,332; Dec. 28; v. 281; p. 603.
Tinning-machine. R. L. Covington. No. 1,341,495; May 25; v. 274; p. 742.
Tipple. E. Ramsay. No. 1,358,175; Nov. 9; v. 280; p. 248.
Tire. W. A. Anglemyer. No. 1,334,067; Mar. 16; v. 272; p. 470.
Tire. A. E. Brown. No. 1,362,774; Dec. 21; v. 281; p. 454.
Tire. E. B. Brown. No. 1,330,756; Feb. 10; v. 271; p. 295.
Tire. E. Carrau. No. 1,336,817; Apr. 13; v. 273; p. 271.
Tire. W. Clendenning. No. 1,354,431; Sept. 28; v. 278; p. 676.
Tire. W. H. Crosby. No. 1,335,663; Mar. 30; v. 272; p. 876.
Tire. C. L. Cunningham. No. 1,353,726; Sept. 21; v. 278; p. 491.
Tire. F. Ditchfield. No. 1,344,025; June 22; v. 275; p. 655.
Tire. C. J. Drope. No. 1,346,081; July 6; v. 276; p. 149.
Tire. G. F. Fisher. No. 1,349,124; Aug. 10; v. 277; p. 245.
Tire. W. R. Ford. No. 1,363,035; Dec. 21; v. 281; p. 505.
Tire. T. Gordon. No. 1,348,714; Aug. 3; v. 277; p. 113.
Tire. W. P. Gordon. No. 1,334,448; Mar. 23; v. 272; p. 588.
Tire. W. Hamilton. No. 1,361,721; Dec. 7; v. 281; p. 149.
Tire. J. H. Hill. No. 1,340,339; May 18; v. 274; p. 450.
Tire. W. D. Hook. No. 1,363,596; Dec. 28; v. 281; p. 654.
Tire. J. M. Johnson. No. 1,361,065; Dec. 7; v. 281; p. 17.
Tire. F. W. Kremer. No. 1,328,632; Jan. 20; v. 270; p. 427.
Tire. Z. Kutchuk. No. 1,351,576; Aug. 31; v. 277; p. 906.
Tire. J. [illegible]ster. No. 1,355,986; Oct. 19; v. 279; p. 804.
Tire. T. J. McCaffrey. No. 1,354,984; Oct. 5; v. 279; p. 107.
Tire. J. N. McFate and H. L. Glaze. No. 1,352,074; Sept. 7; v. 278; p. 70.
Tire. J. N. McFate. No. 1,356,537; Oct. 26; v. 279; p. 550.
Tire. W. H. McGowen. No. 1,341,656; June 1; v. 275; p. 8.
Tire. C. D. Macropoulos. No. 1,348,954; Aug. 10; v. 277; p. 211.
Tire. S. D. Master. No. 1,346,503; July 13; v. 276; p. 294.
Tire. L. J. Meredith. No. 1,363,743; Dec. 28; v. 281; p. 682.
Tire. A. J. Meyer. No. 1,342,562; June 8; v. 275; p. 239.
Tire. W. T. C. Morgan. No 1,335,452; Mar. 30; v. 272; p. 837.
Tire. M. C. Overman. No. 1,340,556; May 18; v. 274; p. 491.
Tire. G. D. Pearson. No. 1,345,228; June 29; v. 275; p. 953.
Tire. A. M. Poynter. No. 1,335,916; Apr. 6; v. 273; p. 40.
Tire. F. Schneible. No. 1,334,970; Mar. 30; v. 272; p. 746.
Tire. H. A. Siprelle. No. 1,346,346; July 13; v. 276; p. 263.
Tire. B. P. Stedman. No. 1,354,520; Oct. 5; v. 279; p. 15.
Tire. C. W. Strauser. No. 1,355,788; Oct. 12; v. 279; p. 315.
Tire. J. G. Summers. No. 1,337,289; Apr. 20; v. 273; p. 435.
Tire. F. L. Wadham. No. 1,327,794; Jan. 13; v. 270; p. 232.
Tire. H. K. Wheelock. No. 1,336,452; Apr. 13; v. 273; p. 201.
Tire. T. Widdop. No. 1,331,606; Feb. 24; v. 271; p. 544.
Tire. C. E. Williams. No. 1,343,860; June 15; v. 275; p. 559.
Tire. C. E. Williams. No. 1,343,861; June 15; v. 275; p. 559.
Tire. J. C. Wise. No. 1,330,732; Feb. 10; v. 271; p. 290.
Tire. J. R. Wood. No. 1,354,449; Sept. 28; v. 278; p. 679.
Tire. L. W. Wood. No. 1,348,614; Aug. 3; v. 277; p. 94.
Tire. O. S. Yohn. No. 1,363,300; Dec. 28; v. 281; p. 596.
Tire-abrader. F. N. Cordell. No. 1,349,366; Aug. 10; v. 277; p. 293.
Tire, Air-cushion. H. S. Williams. No. 1,334,204; Mar. 16; v. 272; p. 495.
Tire-alarm. H. Brown. No. 1,341,613; May 25; v. 274; p. 765.
Tire-alarm. C. E. Johnson. No. 1,332,729; Mar. 2; v. 272; p. 106.
Tire alarm, Flat-. L. Hofmeister. No. 1,333,076; Mar. 9; v. 272; p. 223.
Tire alarm, Pneumatic-. Anderfuhren. No. 1,327,416; Jan 6; v. 270; p. 99.

Digitized by Google

Alphabetical list of inventions—Continued.

Tire and filling therefor, Resilient. J. Stander. No. 1,343,233; June 15; v. 275; p. 435.
Tire and making same, Pneumatic. W. B. Pratt. No. 1,349,913; Aug. 17; v. 277; p. 472.
Tire and making same, Solid. W. B. Pratt. No. 1,349,914; Aug. 17; v. 277; p. 472.
Tire and mounting, Combined resilient. G. N. Widenhofer. No. 1,354,363; Sept. 28; v. 278; p. 662.
Tire and rim. A. L. Baker. No. 1,335,268; Mar. 30; v. 272; p. 802.
Tire and rim. S. E. Hall. No. 1,333,915; Mar. 16; v. 272; p. 441.
Tire and tube molds, Attachment for. J. A. McLane. No. 1,362,717; Dec. 21; v. 281; p. 443.
Tire and tube vulcanizer. O. Nichols. No. 1,349,688; Aug. 17; v. 277; p. 429.
Tire antislipping device, Automobile-. G. B. Waite. No. 1,329,483; Feb. 3; v. 271; p. 26.
Tire-armor. H. M. Laley. No. 1,351,664; Aug. 31; v. 277; p. 923.
Tire-armor. T. J. McManus. No. 1,330,129; Feb. 10; v. 271; p. 178.
Tire-armor. A. X. Pfeiffer. No. 1,332,001; Feb. 24; v. 271; p. 619.
Tire-armor. P. V. Youri. No. 1,347,982; July 27; v. 276; p. 702.
Tire-armor, Antislipping. C. E. Ross. No. 1,340,629; May 18; v. 274; p. 505.
Tire-armor, Non-skid. A. Lehoczky. No. 1,355,056; Oct. 5; v. 279; p. 121.
Tire armor, Vehicle-. V. P. Ratzburg. No. 1,338,842; May 4; v. 274; p. 35.
Tire armor, Vehicle-. V. P. Ratzburg. No. 1,338,843; May 4; v. 274; p. 36.
Tire, Armored. B. Granville. No. 1,338,011; Apr. 27; v. 273; p. 641.
Tire, Auto emergency-. L. W. Crompton and W. J. Graham. No. 1,358,936; Nov. 16; v. 280; p. 446.
Tire, Automobile-. E. E. Bull. No. 1,358,410; Nov. 9; v. 280; p. 296.
Tire, Automobile-. W. A. and E. J. Griffiths. No. 1,348,871; Aug. 10; v. 277; p. 195.
Tire, Automobile-. L. Hofmeister. No. 1,336,189; Apr. 6; v. 273; p. 82.
Tire, Automobile-. E. Y. Malone. No. 1,354,411; Sept. 28; v. 278; p. 671.
Tire, Automobile-. G. G. Martin. No. 1,342,339; June 1; v. 275; p. 141.
Tire, Automobile-. A. L. Meeks. No. 1,352,375; Sept. 7; v. 278; p. 126.
Tire, Automobile-. T. Meyer. No. 1,341,380; May 25; v. 274; p. 720.
Tire, Automobile-. W. A. Michero. No. 1,358,566; Nov. 9; v. 280; p. 327.
Tire, Automobile-. R. L. Prudhomme. No. 1,342,297; June 1; v. 275; p. 134.
Tire, Automobile-. F. F. Randolph. No. 1,362,265; Dec. 14; v. 281; p. 304.
Tire, Automobile-. W. W. Robinson. No. 1,333,779; Mar. 16; v. 272; p. 416.
Tire, Automobile-. W. L. Varner. No. 1,327,503; Jan. 6; v. 270; p. 116.
Tire-bead. T. Midgley. No. 1,349,902; Aug. 17; v. 277; p. 470.
Tire-beads, Centering-ring for. W. F. Goff. No. 1,339,451; May 11; v. 274; p. 224.
Tire-beads, Reinforcement for. M. A. Marquette. No. 1,349,898; Aug. 17; v. 277; p. 469.
Tire-bead-cutting apparatus. G. McNeill. No. 1,332,990; Mar. 9; v. 272; p. 207.
Tire-boot. E. M. Steell. No. 1,331,855; Feb. 24; v. 271; p. 591.
Tire-boot fastener. W. M. Rapp. No. 1,357,116; Oct. 26; v. 279; p. 664.
Tire-building buck. H. F. Bartlett. No. 1,333,150; Mar. 9; v. 272; p. 237.
Tire-building machine. J. J. Convery. No. 1,331,242; Feb. 17; v. 271; p. 455.
Tire-building machine. J. J. Convery. No. 1,332,608; Mar. 2; v. 272; p. 83.
Tire-calipers. B. E. Taylor. No. 1,363,825; Dec. 28; v. 281; p. 698.
T re-carcass material, Method of and means for producing. E. K. Baker. No. 1,355,525; Oct. 12; v. 279; p. 265.
Tire-carcasses, Putting beads on. W. G. Fording. No. 1,348,164; Aug. 3; v. 277; p. 6.
Tire-carrier. P. Barnum. No. 1,340,431; May 18; v. 274; p. 468.
Tire-carrier. A. P. Crell. No. 1,331,244; Feb. 17; v. 271; p. 455.
Tire-carrier. A. P. Crell. No. 1,331,245; Feb. 17; v. 271; p. 455.
Tire-carrier. W. R. Green. No. 1,349,507; Aug. 10; v. 277; p. 321.
Tire-carrier. W. R. Green. No. 1,352,595; Sept. 14; v. 278; p. 206.
Tire-carrier. T. A. Hoover. No. 1,337,911; Apr. 20; v. 273; p. 553.
Tire-carrier. H H. Horrocks. No. 1,338,630; Apr. 27; v. 273; p. 757.
Tire-carrier. A. E. Johnson. No. 1,327,097; Jan. 6; v. 270; p. 41.
Tire-carrier. L. C. Pitner and L. S. Paul. No. 1,331,124; Feb. 17; v. 271; p. 433.
Tire-carrier. G. H. and H. F. Rogge. No. 1,361,745; Dec. 7; v. 281; p. 153.
Tire-carrier. H. G. Voight. No. 1,362,654; Dec. 21; v. 281; p. 431.
Tire-carrier. L. Wilson. No. 1,327,261; Jan. 6; v. 270; p. 71.
Tire-carrier, Adjustable. W. R. Green. No. 1,344,202; June 22; v. 275; p. 689.
Tire-carrier, Adjustable. W. R. Green. No. 1,344,944; June 29; v. 275; p. 899.
Tire-carrier, Auto. H. P. Johnson. No. 1,331,926; Feb. 24; v. 271; p. 604.
Tire carrier, Extra-. W. R. Green. No. 1,329,174; Jan. 27; v. 270; p. 558.
Tire carrier, Extra-. H. Walker. No. 1,330,102; Feb. 10; v. 271; p. 173.
Tire carrier, Spare-. H. G. Voight. No. 1,358,801; Nov. 16; v. 280; p. 419.
Tire carrier, Vehicle-. W. E. Dunstan. No. 1,343,964; June 22; v. 275; p. 643.
Tire carrier, Automobile-. C. C. Steel and T. H. Lynn. No. 1,347,561; July 27; v. 276; p. 618.
Tire-carrying device. O. De Werthern. No. 1,359,676; Nov. 23; v. 280; p. 634.
Tire-carrying rim, Demountable-. J. C. Schleicher. No. 1,363,277; Dec. 28; v. 281; p. 592.
Tire-casing. A. V. Anderson and A. M. Morgan. No. 1,351,015; Aug. 31; v. 277; p. 795.
Tire-casing. H. E. Grabau. No. 1,347,847; July 27; v. 276; p. 675.
Tire-casing. D. Neal. No. 1,341,663; June 1; v. 275; p. 10.
Tire-casing and making same. N. Benjamin. No. 1,351,463; Aug. 31; v. 277; p. 883.
Tire casing and making same, Pneumatic-. F. B. Carlisle. No. 1,345,994; July 6; v. 276; p. 132.
Tire casing and making same, Pneumatic-. F. B. Carlisle. No. 1,345,998; July 6; v. 276; p. 132.
Tire-casing core. F. L. Bailey and J. H. La Grant. No. 1,339,875; May 11; v. 274; p. 305.
Tire-casing-curing rim. E. Cassel and F. H. Kunkel. No. 1,361,827; Dec. 14; v. 281; p. 216.
Tire-casing fabric and making same. H. E. Grabau and A. C. Schwartz. No. 1,347,848; July 27; v. 276; p. 676.
Tire-casing holder and spreader. P. E. Hawkinson. No. 1,352,601; Sept. 14; v. 278; p. 207.
Tire-casing lock. T. E. Cook and A. T. Freije. No. 1,338,677; May 4; v. 274; p. 5.
Tire casing, Pneumatic-. F. B. Carlisle. No. 1,345,997; July 6; v. 276; p. 132.
Tire-casing seal. G. H. Budd. No. 1,347,439; July 20; v. 276; p. 537.
Tire-casing spreader. T. Cardinell. No. 1,350,779; Aug. 24; v. 277; p. 687.
Fire-casing spreader. P. E. Hawkinson. No. 1,352,807; Sept. 14; v. 278; p. 229.
Tire-casing spreader. I. A. Weaver and R. G. Stoehr. No. 1,358,805; Nov. 16; v. 280; p. 420.
Tire-casing vulcanizer and rebuilder. W. B. Coats. No. 1,333,062; Mar. 9; v. 272; p. 221.
Tire casings and tubes, Machine for building. W. R. Major and F. H. Grove. No. 1,343,399; June 15; v. 275; p. 466.
Tire casings, Apparatus for making pneumatic-. F. B. Carlisle. No. 1,345,995; July 6; v. 276; p. 132.
Tire casings, Apparatus for making pneumatic-. E. Hopkinson. No. 1,349,424; Aug. 10; v. 277; p. 304.
Tire casings, Apparatus for use in the manufacture of pneumatic-. F. B. Carlisle. No. 1,345,996; July 6; v. 276; p. 132.
Tire casings for vehicles, Apparatus for use in vulcanising pneumatic-. E. Hopkinson. No. 1,349,721; Aug. 17; v. 277; p. 436.
Tire-casings, Machine for making. W. C. Stevens. No. 1,334,185; Mar. 16; v. 272; p. 492.
Tire-casings, Making. W. E. Williams. No. 1,346,623; July 13; v. 276; p. 317.
Tire casings, Making pneumatic-. E. Hopkinson. No. 1,349,423; Aug. 10; v. 277; p. 304.
Tire-casings, Mechanism for fastening together nested. C. M. Horton. No. 1,327,237; Jan. 6; v. 270; p. 67.
Tire-casings, Resilient core for. F. L. Bailey and J. H. La Grant. No. 1,339,876; May 11; v. 274; p. 305.
Tire-casings, Resilient support for. H. J. Stottman. No. 1,362,447; Dec. 14; v. 281; p. 338.
Tire-casings, Spreader for. A. and A. A. Mieloch. No. 1,342,565; June 8; v. 275; p. 239.
Tire-chain. C. S. Barrell. No. 1,358,815; Nov. 16; v. 280; p. 422.
Tire-chain. P. E. Daubenspeck. No. 1,341,301; May 25; v. 274; p. 704.
Tire-chain. J. A. Fields and J. J. Witte. No. 1,334,363; Mar. 23; v. 272; p. 572.
Tire-chain. S. Goddard. No. 1,338,009; Apr. 27; v. 273; p. 641.
Tire-chain. R. E. Muffly. No. 1,336,369; Apr. 6; v. 273; p. 126.

Digitized by Google

Tire chain and holder, Automobile-. J. Schneider. No. 1,346,469; July 13; v. 276; p. 287.
Tire chain, Automobile. I. V. Benoit. No. 1,363,175; Dec. 21; v. 281; p. 531.
Tire chain, Automobile-. M. C. Hart. No. 1,338,772; May 4; v. 274; p. 23.
Tire-chain, Equalizing-retainer for. H. J. Hick. No. 1,335,165; Mar. 30; v. 272; p. 784.
Tire-chain connection. S. Goddard. No. 1,353,828; Sept. 28; v. 278; p. 553.
Tire-chain connector. W. D. Addison. No. 1,360,859; Nov. 30; v. 280; p. 935.
Tire-chain fastener. J. W. Hubble. No. 1,362,314; Dec. 14; v. 281; p. 313.
Tire-chain fastener. E. M. Nelson. No. 1,341,924; June 1; v. 275; p. 61.
Tire-chain fastener. A. A. Robinson. No. 1,330,903; Feb. 17; v. 271; p. 392.
Tire-chain fastener. Y. Shimizu. No. 1,336,383; Apr. 6; v. 273; p. 128.
Tire-chain-fastening means. D. J. Demas. No. 1,361,698; Dec. 7; v. 281; p. 143.
Tire-chain holder. G. N. Pennington. No. 1,333,184; Mar. 9; v. 272; p. 243.
Tire-chain holder, Automobile-. E. L. Arthur. No. 1,352,238; Sept. 7; v. 278; p. 101.
Tire-chain, Non-skid sectional. F. A. Gahring. No. 1,348,402; Aug. 3; v. 277; p. 54.
Tire-chain snap-hook. J. P. Fennessy. No. 1,338,686; May 4; v. 274; p. 7.
Tire-chains to vehicle-wheels, Means for automatically applying. W. W. Farmsworth. No. 1,351,206; Aug. 31; v. 277; p. 832.
Tire-changer. I. A. Weaver. No. 1,341,727; June 1; v. 275; p. 22.
Tire changer, Auto-. F. Martin. No. 1,354,118; Sept. 28; v. 278; p. 613.
Tire-changing appliance. I. A. Weaver and J. Sternaman. No. 1,341,728; June 1; v. 275; p. 23.
Tire-changing machine. I. A. Weaver and J. Sternaman, Jr. No. 1,341,726; June 1; v. 275; p. 22.
Tire-changing mechanism. I. A. Weaver. No. 1,341,729; June 1; v. 275; p. 23.
Tire-charging tube and tester. D. D. Getman. No. 1,357,633; Nov. 2; v. 280; p. 82.
Tire-clamp. C. L. Reish. No. 1,345,957; July 6; v. 276; p. 125.
Tire clip, Vehicle-. L. H. Robinson. No. 1,358,019; Nov. 9; v. 280; p. 218.
Tire construction. H. F. Maranville. No. 1,329,463; Feb. 3; v. 271; p. 23.
Tire construction, Resilient. E. Veltung. No. 1,345,812; July 6; v. 276; p. 95.
Tire, Cord. F. L. Kryder. No. 1,357,098; Oct. 26; v. 279; p. 660.
Tire-core. D. A. Clark and C. E. Lowe. No. 1,330,784; Feb. 17; v. 271; p. 368.
Tire-core. W. S. Gillette. No. 1,363,109; Dec. 21; v. 281; p. 519.
Tire-core. E. A. Krannich. No. 1,328,676; Jan. 20; v. 270; p. 435.
Tire-core. T. Midgley, Sr., and T. Midgley, Jr. No. 1,346,231; July 13; v. 276; p. 239.
Tire-core clamp. E. A. Ericson. No. 1,360,736; Nov. 30; v. 280; p. 912.
Tire-core, Collapsible. H. A. Denmire. No. 1,358,941; Nov. 16; v. 280; p. 447.
Tire-core, Collapsible. F. L. Johnson. No. 1,352,274; Sept. 7; v. 278; p. 107.
Tire-core, Collapsible. F. L. Johnson. No. 1,356,721; Oct. 26; v. 279; p. 586.
Tire-cover. E. J. Herchert. No. 1,342,169; June 1; v. 275; p. 109.
Tire covers or casings, Machine for making pneumatic-. C. Macbeth and C. K. Jones. No. 1,331,657; Feb. 24; v. 271; p. 553.
Tire cover or protector. M. A. Shotwell. No. 1,352,093; Sept. 7; v. 278; p. 73.
Tire covers, Repairing pneumatic-. F. W. Farr. No. 1,330,855; Feb. 17; v. 271; p. 382.
Tire, Cushion-. G. M. Goudy. No. 1,348,105; July 27; v. 276; p. 727.
Tire, Cushion-. I. N. Keim. No. 1,346,032; July 6; v. 276; p. 139.
Tire, Cushion. F. A. Krusemark, L. G. Funkhouser, and H. G. Carpenter. No. 1,344,346; June 22; v. 275; p. 718.
Tire, Cushion-. L. W. Ostmann. No. 1,343,154; June 8; v. 275; p. 355.
Tire, Cushion-. J. M. Ramage. No. 1,351,536; Aug. 31; v. 277; p. 898.
Tire, Cushion-. J. Saul. No. 1,356,115; Oct. 19; v. 279; p. 421.
Tire, Cushion-. C. S. Wert. No. 1,329,331; Jan. 27; v. 270; p. 586.
Tire, Cushion-. H. S. Williams. No. 1,334,205; Mar. 16; v. 272; p. 495.
Tire-cushion, Resilient. E. McDowell. No. 1,327,717; Jan. 13; v. 270; p. 218.
Tire-cutting machine. C. Rasmussen. No. 1,357,899; Nov. 2; v. 280; p. 133.
Tire, Demountable steel. G. O. Hanshew. No. 1,363,411; Dec. 28; v. 281; p. 617.
Tire, Detachable emergency-. C. M. Smith. No. 1,332,416; Mar. 2; v. 272; p. 46.
Tire display-holder. M. Metzger. No. 1,354,774; Oct. 5; v. 279; p. 65.
Tire, Dual sectional pneumatic. A. Jakovleff. No. 1,335,711; Mar. 30; v. 272; p. 885.
Tire, Elastic. K. Fukuda. No. 1,352,885; Sept. 14; v. 278; p. 264.
Tire, Elastic vehicle-. W. E. Russell. No. 1,345,256; June 29; v. 275; p. 958.
Tire, Emergency-. H. G. Lykken. No. 1,357,788; Nov. 2; v. 280; p. 112.
Tire, Emergency-. E. C. Schultz. No. 1,355,785; Oct. 12; v. 279; p. 315.
Tire, Emergency-. H. M. Shannon. No. 1,341,345; May 25; v. 274; p. 713.
Tire, Emergency-. P. H. Still. No. 1,356,414; Oct. 19; v. 279; p. 479.
Tire fabric. C. Zeglen. No. 1,335,311; Mar. 30; v. 272; p. 810.
Tire-filler. O. L. Huffman. No. 1,335,115; Mar. 30; v. 272; p. 774.
Tire-filler. F. A. Nagel. No. 1,362,731; Dec. 21; v. 281; p. 445.
Tire-filler. J. H. North. No. 1,337,528; Apr. 20; v. 273; p. 480.
Tire-filler and making same. F. D. Meyer. No. 1,351,670; Aug. 31; v. 277; p. 924.
Tire filler and tester. C. W. Pelton and J. P. Barbour. No. 1,339,041; May 4; v. 274; p. 73.
Tire-filler, Resilient. A. L. Runyan. No. 1,343,685; June 15; v. 275; p. 523.
Tire-filler with a flexible cable in the center, Rubber. M. W. Needham. No. 1,339,472; May 11; v. 274; p. 228.
Tire-filling apparatus. Z. Olsson. No. 1,360,310; Nov. 30; v. 280; p. 828.
Tire-filling device, Pneumatic-. H. B. Cody. No. 1,350,068; Aug. 17; v. 277; p. 502.
Tire, Folding emergency-. E. A. Beaulieu. No. 1,338,807; May 4; v. 274; p. 29.
Tire for automobile-wheels. L. H. Sprinkle and F. Wolfe. No. 1,363,821; Dec. 28; v. 281; p. 697.
Tire for automobiles, Demountable metal. F. Pataye. No. 1,343,840; June 15; v. 275; p. 554.
Tire for vehicle-wheels, Resilient. A. Balaguer. No. 1,346,692; July 13; v. 276; p. 331.
Tire for vehicle-wheels, Spring-. A. B. Nix. No. 1,341,576; May 25; v. 274; p. 758.
Tire-foundation bands, Apparatus for applying hard rubber to. C. Macbeth and E. Sullivan. No. 1,330,886; Feb. 17; v. 271; p. 388.
Tire-grip, Chain. R. E. Pye. No. 1,339,978; May 11; v. 274; p. 324.
Tire-grip, Chain. J. R. Reyburn. No. 1,339,979; May 11; v. 274; p. 325.
Tire-grip holder. A. F. Saewert. No. 1,330,497; Feb. 10; v. 271; p. 247.
Tire-grip tightener. J. R. Reyburn. No. 1,340,184; May 18; v. 274; p. 421.
Tire-guard. J. Friesen. No. 1,345,163; June 29; v. 275; p. 941.
Tire having a reserve of expansibility. L. A. Subers. No. 1,339,868; May 11; v. 274; p. 304.
Tire-heater. J. J. Fahrney. No. 1,343,045; June 8; v. 275; p. 334.
Tire-heater. F. G. Knoflicek. No. 1,328,330; Jan. 20; v. 270; p. 370.
Tire-holder. A. F. Engel. No. 1,346,083; July 6; v. 276; p. 150.
Tire-holder. A. J. Ferris. No. 1,349,270; Aug. 10; v. 277; p. 274.
Tire-holder. L. C. Printner and L. S. Paul. No. 1,329,475; Feb. 3; v. 271; p. 25.
Tire-holder, Automobile. L. H. Teel. No. 1,352,559; Sept. 14; v. 278; p. 199.
Tire-holding device. A. E. Joslin. No. 1,362,250; Dec. 14; v. 281; p. 301.
Tire indicator, Pneumatic-. J. L. Jackson. No. 1,346,961; July 20; v. 276; p. 443.
Tire-inflating means. A. C. Tenney. No. 1,330,560; Feb. 10; v. 271; p. 258.
Tire-inflating mechanism, Automatic pneumatic. A. W. Stonestreet. No. 1,338,337; Apr. 27; v. 273; p. 703.
Tire-inflation signal. W. H. Thorpe. No. 1,357,009; Oct. 26; v. 279; p. 642.
Tire-inflator. W. A. and G. W. Delahey. No. 1,359,795; Nov. 23; v. 280; p. 658.
Tire inflator, Pneumatic-. E. S. Hayford. No. 1,348,111; July 27; v. 276; p. 728.
Tire inner tube. T. L. Morton. No. 1,331,023; Feb. 17; v. 271; p. 415.
Tire inner tubes, Manufacturing. J. J. Shoemaker and C. C. Cox. No. 1,341,247; May 25; v. 274; p. 694.
Tire, laminated tire treads, &c., Method and machines for making the rubber elements for. H. I. Morris. No. 1,353,934; Sept. 28; v. 278; p. 574.
Tire-lathe. S. W. Putnam, 3d. No. 1,328,763; Jan. 20; v. 270; p. 451.
Tire, Link cushion-. M. Hamburger. No. 1,335,496; Mar. 30; v. 272; p. 845.
Tire-lock. W. T. Campbell. No. 1,330,167; Feb. 10; v. 271; p. 185.

Digitized by Google

Alphabetical list of inventions—Continued.

Tire-lock. J. A. Scott and J. S. Voigt. No. 1,347,467; July 20; v. 276; p. 543.
Tire-lock. H. G. Voight. No. 1,358,184; Nov. 9; v. 280; p. 250.
Tire lock, Automobile-. R. K. Gray. No. 1,348,169; Aug. 3; v. 277; p. 7.
Tire lock, Automobile spare-. C. L. Johnson. No. 1,346,964; July 20; v. 276; p. 444.
Tire-machine drum. W. F. Gammeter. No. 1,332,330; Mar. 2; v. 272; p. 29.
Tire-making device. E. Sterns. No. 1,348,596; Aug. 3; v. 277; p. 91.
Tire-making machine. J. J. Convery. No. 1,332,108; Feb. 24; v. 271; p. 638.
Tire-making machine. W. B. Harsel. No. 1,327,910; Jan. 13; v. 270; p. 254.
Tire-making machine. E. C. McGraw. No. 1,333,927; Mar. 16; v. 272; p. 448.
Tire-making machine. E. G. Templeton. No. 1,338,407; Apr. 27; v. 273; p. 716.
Tire-mandrel and producing same. J. R. Gammeter. No. 1,353,158; Sept. 21; v. 278; p. 877.
Tire manufacture. C. McBeth. No. 1,362,169; Dec. 14; v. 281; p. 284.
Tire-mileage indicator. T. T. and J. W. Watson. No. 1,343,535; June 15; v. 275; p. 493.
Tire-mold. A. R. Thompson. No. 1,354,227; Sept. 28; v. 278; p. 635.
Tire-mold, Adjustable. C. D. Hibbs. No. 1,361,764; Dec. 7; v. 281; p. 157.
Tire mold and clamp. J. H. Mulloy. No. 1,363,150; Dec. 21; v. 281; p. 527.
Tire-molds, Machine for finishing. J. C. Fiddyment. No. 1,339,816; May 11; v. 274; p. 294.
Tire-molds, Means for stacking. B. H. Rose. No. 1,338,844; May 4; v. 274; p. 36.
Tire, Motor-vehicle. J. J. Dana. No. 1,338,290; Apr. 27; v. 273; p. 694.
Tire, Multiple-tread pneumatic. A. Jakovleff. No. 1,335,710; Mar. 30; v. 272; p. 885.
Tire-oven. I. C. Howlett. No. 1,345,188; June 29; v. 275; p. 946.
Tire-overshoe. B. J. Mullikin. No. 1,328,757; Jan. 20; v. 270; p. 450.
Tire-patch. W. C. Wood. No. 1,348,466; Aug. 3; v. 277; p. 66.
Tire-patch material, Producing. C. O. Duffy. No. 1,339,696; May 11; v. 274; p. 272.
Tire-peeling machine. E. P. Hafner and J. T. Roberts. No. 1,329,239; Jan. 27; v. 270; p. 579.
Tire, Pneumatic. E. P. Altenburg. No. 1,337,813; Apr. 20; v. 273; p. 534.
Tire, Pneumatic. P. E. van Berendonck. No. 1,332,149; Feb. 24; v. 271; p. 645.
Tire, Pneumatic. S. L. Church. No. 1,346,113; July 13; v. 276; p. 217.
Tire, Pneumatic. C. Drouet. No. 1,346,945; July 20; v. 276; p. 440.
Tire, Pneumatic. E. G. Fido. No. 1,336,348; Apr. 6; v. 273; p. 121.
Tire, Pneumatic. C. C. Gates. No. 1,339,951; May 11; v. 274; p. 320.
Tire, Pneumatic. R. H. Henémier. No. 1,330,587; Feb. 10; v. 271; p. 263.
Tire, Pneumatic. G. Hofmann. No. 1,347,950; July 27; v. 276; p. 695.
Tire, Pneumatic. B. A. Karr. No. 1,339,516; May 11; v. 274; p. 237.
Tire, Pneumatic. E. B. Killen. No. 1,337,660; Apr. 20; v. 273; p. 505.
Tire, Pneumatic. W. Kline. No. 1,335,442; Mar. 30; v. 272; p. 835.
Tire, Pneumatic. J. W. McElvain. No. 1,358,962; Nov. 16; v. 280; p. 451.
Tire, Pneumatic. H. Nicholson. No. 1,328,054; Jan. 13; v. 270; p. 281.
Tire, Pneumatic. I. Normandy. No. 1,339,782; May 11; v. 274; p. 288.
Tire, Pneumatic. W. H. Richards. No. 1,332,953; Mar. 9; v. 272; p. 200.
Tire, Pneumatic. W. H. Richards. No. 1,362,187; Dec. 14; v. 281; p. 288.
Tire, Pneumatic. E. M. Story. No. 1,336,663; Apr. 13; v. 273; p. 241.
Tire, Pneumatic vehicle-. R. R. Vale. No. 1,335,469; Mar. 30; v. 272; p. 839.
Tire-pressure gage. E. D. White. No. 1,345,570; July 6; v. 276; p. 48.
Tire-pressure gage. J. B. Miller and J. H. Bruninga. No. 1,334,874; Mar. 23; v. 272; p. 669.
Tire pressure-gage, Pneumatic-. K. F. Lees. No. 1,328,572; Jan. 20; v. 270; p. 416.
Tire-protector. R. T. Baker. No. 1,336,271; Apr. 6; v. 273; p. 107.
Tire-protector. J. Copp. No. 1,362,475; Dec. 14; v. 281; p. 343.
Tire-protector. K. J. Ekedahl. No. 1,356,702; Oct. 26; v. 279; p. 582.
Tire-protector. W. E. Everett. No. 1,357,157; Oct. 26; v. 279; p. 671.
Tire-protector. W. A. Helm. No. 1,340,608; May 18; v. 274; p. 501.
Tire-protector. A. Kleinahrot. No. 1,347,513; July 27; v. 276; p. 608.
Tire-protector. W. E. Niles. No. 1,328,539; Jan. 20; v. 270; p. 410.
Tire-protector. D. D. O'Brien. No. 1,340,179; May 18; v. 274; p. 420.
Tire-protector. L. F. Petey. No. 1,337,950; Apr. 20; v. 273; p. 561.
Tire-protector. I. Raffelson. No. 1,336,757; Apr. 13; v. 273; p. 259.
Tire-protector. C. A. and G. E. Stuart. No. 1,362,516; Dec. 14; v. 281; p. 351.
Tire-protector. J. B. Virga. No. 1,357,132; Oct. 26; v. 279; p. 667.
Tire-protector. G. B. Waite. No. 1,329,482; Feb. 3; v. 271; p. 26.
Tire-pump. H. O. Sharp. No. 1,363,621; Dec. 28; v. 281; p. 658.
Tire rack, Automobile-. J. A. Cheape. No. 1,355,033; Oct. 5; v. 279; p. 116.
Tire-rebuilding device. E. Borman. No. 1,354,595; Oct. 5; v. 279; p. 30.
Tire-remover. C. A. Clark. No. 1,361,306; Dec. 7; v. 281; p. 65.
Tire-removing appliance. I. A. Weaver and J. Sternaman. No. 1,341,730; June 1; v. 275; p. 23.
Tire remover, Automobile-. A. A. Smith. No. 1,353,078; Sept. 14; v. 278; p. 302.
Tire-removing apparatus. N. L. Caldwell. No. 1,352,722; Sept. 14; v. 278; p. 231.
Tire-repair tool. C. Nickum. No. 1,363,163; Dec. 21; v. 281; p. 529.
Tire-repairs, Portable vulcanizer for. W. H. Welch. No. 1,360,837; Nov. 30; v. 280; p. 931.
Tire, Repaired. C. W. Yelm. No. 1,352,164; Sept. 7; v. 278; p. 87.
Tire, Resilient. G. A. Arnold and E. J. Gross. No. 1,346,155; July 13; v. 276; p. 225.
Tire, Resilient. W. F. Bales. No. 1,358,671; Nov. 9; v. 280; p. 348.
Tire, Resilient. E. J. Benedict and M. C. Frost. No. 1,346,695; July 13; v. 276; p. 332.
Tire, Resilient. V. L. Buchman. No. 1,342,158; June 1; v. 275; p. 107.
Tire, Resilient. F. C. Cave. No. 1,335,820; Apr. 6; v. 273; p. 22.
Tire, Resilient. A. A. Culbertson. No. 1,343,766; June 15; v. 275; p. 539.
Tire, Resilient. D. J. Demas. No. 1,337,443; Apr. 20; v. 273; p. 464.
Tire, Resilient. J. H. Douglass. No. 1,332,816; Mar. 2; v. 272; p. 123.
Tire, Resilient. B. G. Erler and E. Roesler. No. 1,356,438; Oct. 19; v. 279; p. 484.
Tire, Resilient. M. A. Greene. No. 1,354,392; Sept. 28; v. 278; p. 668.
Tire, Resilient. A. C. Harrod. No. 1,362,694; Dec. 21; v. 281; p. 438.
Tire, Resilient. J. A. Horne. No. 1,347,953; July 27; v. 276; p. 696.
Tire, Resilient. L. D. Hughes. No. 1,343,172; June 8; v. 275; p. 359.
Tire, Resilient. A. C. and N. Jonassen. No. 1,353,757; Sept. 21; v. 278; p. 496.
Tire, Resilient. D. S. Kennedy. No. 1,355,748; Oct. 12; v. 279; p. 308.
Tire, Resilient. C. La Cour. No. 1,349,163; Aug. 10; v. 277; p. 253.
Tire, Resilient. C. G. Lunstrom. No. 1,362,123; Dec. 14; v. 281; p. 276.
Tire, Resilient. F. Perdala. No. 1,343,155; June 8; v. 275; p. 356.
Tire, Resilient. J. Spadafora. No. 1,341,391; May 25; v. 274; p. 722.
Tire, Resilient. J. Spadafora. No. 1,347,060; July 20; v. 276; p. 463.
Tire, Resilient. J. D. Sullivan and H. L. Fry. No. 1,355,011; Oct. 5; v. 279; p. 111.
Tire, Resilient. P. J. Westergaard. No. 1,329,215; Jan. 27; v. 270; p. 565.
Tire, Resilient, non-puncturable, and demountable. F. A. Meckert and L. E. Bock. No. 1,347,585; July 27; v. 276; p. 623.
Tire, Resilient wheel-. G. E. Gilmore. No. 1,358,308; Nov. 9; v. 280; p. 274.
Tire-retaining demountable rim. J. Walker. No. 1,345,522; July 6; v. 276; p. 38.
Tire-retaining ring for clencher-rims. W. H. Dillet. No. 1,330,061; Feb. 10; v. 271; p. 165.
Tire-retreading apparatus. R. A. Brooks. No. 1,327,307; Jan. 6; v. 270; p. 80.
Tire-retreading apparatus. R. A. Brooks. (Reissue.) No. 14,852; May 4; v. 274; p. 135.
Tire-retreading form and constructing same. W. J. Shriver. No. 1,330,958; Feb. 17; v. 271; p. 403
Tire-rim. C. N. Hauffe. No. 1,341,124; May 25; v. 274; p. 670.
Tire-rim. H. Stinemetts. No. 1,327,180; Jan. 6; v. 270; p. 56.
Tire rim, Automobile-. J. A. Beddingfield. No. 1,345,659; July 6; v. 276; p. 65.

Digitized by Google

Tire-rim, Collapsible. C. B. Deeds. No. 1,358,711; Nov. 16; v. 280; p. 401.
Tire-rim, Demountable. J. V. Brownlee. No. 1,338,067; Apr. 27; v. 273; p. 652.
Tire-rim-expanding jack. N. Lewsen. No. 1,353,765; Sept. 21; v. 278; p. 497.
Tire-rim, Separable. V. R. Teague. No. 1,345,282; June 29; v. 275; p. 964.
Tire rim, Vehicle-. H. H. Green. No. 1,345,670; July 6; v. 276; p. 67.
Tire, Rubber. P. J. Ernenwein. No. 1,360,907; Nov. 30; v. 280; p. 944.
Tire, Rubber. A. S. Krotz. No. 1,360,119; Nov. 23; v. 280; p. 722.
Tire safety-lock, Automobile-. J. Kershaw. No. 1,329,528; Feb. 3; v. 271; p. 35.
Tire scope. Auto-. W. L. Dysart and C. H. Lanius. No. 1,338,615; Apr. 27; v. 273; p. 754.
Tire, Sectional pneumatic. A. Jakovleff. No. 1,335,712; Mar. 30; v. 272; p. 886.
Tire, Sectional pneumatic. J. B. O'Connor and L. Tarwater. No. 1,330,815; Feb. 17; v. 271; p. 374.
Tire-securing device. H. W. van Meeteren. No. 1,331,541; Feb. 24; v. 271; p. 531.
Tire, Shock-absorbing vehicle-. U. S. James. No. 1,327,478; Jan. 6; v. 270; p. 111.
Tire-shoe and rim therefor. J. H. Wagenhorst. No. 1,335,411; Mar. 30; v. 272; p. 829.
Tire shoe, Pneumatic-. O. Larson. No. 1,355,609; Oct. 12; v. 279; p. 281.
Tire signal, Flat-. D. D. Getman. No. 1,346,599; July 13; v. 276; p. 313.
Tire-spreader. T. L. Harkins. No. 1,345,849; July 6; v. 276; p. 102.
Tire-spreader. D. O. Nation. No. 1,354,457; Sept. 28; v. 278; p. 680.
Tire-spreader. S. E. Wilbur. No. 1,349,990; Aug. 17; v. 277; p. 487.
Tire spreader, Pneumatic-. H. P. Kraft. No. 1,358,641; Nov. 9; v. 280; p. 342.
Tire, Spring-. J. W. Bassham. No. 1,344,974; June 29; v. 275; p. 904.
Tire, Spring-. J. Davis. No. 1,335,046; Mar. 30; v. 272; p. 761.
Tire, Spring-. E. S. Johnson. No. 1,340,272; May 18; v. 274; p. 437.
Tire, Spring-. I. M. Sartain. No. 1,329,021; Jan. 27; v. 270; p. 529.
Tire, Spring-. M. O. Swelven. No. 1,348,522; Aug. 3; v. 277; p. 76.
Tire, Spring-. F. L. White. No. 1,331,687; Feb. 24; v. 271; p. 559.
Tire, Spring-cushion. G. Orbin. No. 1,351,784; Sept. 7; v. 278; p. 13.
Tire-stripper. G. E. Blaylock. (Reissue.) No. 14,994; Nov. 30; v. 280; p. 961.
Tire structure. F. E. Allen. No. 1,329,819; Feb. 3; v. 271; p. 89.
Tire structure. A. D. Rozeboom. No. 1,354,691; Oct. 5; v. 279; p. 49.
Tire-support. H. M. Smith. No. 1,343,526; June 15; v. 275; p. 491.
Tire support and rim-removing apparatus, Combined spare-. R. L. Mapson. No. 1,350,372; Aug. 24; v. 277; p. 607.
Tire-tool. L. L. Keys. No. 1,338,576; Apr. 27; v. 273; p. 747.
Tire-tread. W. Barber. No. 1,346,627; July 13; v. 276; p. 318.
Tire-tread. W. N. Forbes. No. 1,349,055; Aug. 10; v. 277; p. 231.
Tire-tread attachment. F. A. Hoya. No. 1,357,322; Nov. 2; v. 280; p. 24.
Tire-tread attachment. W. R. Petersen. No. 1,349,626; Aug. 17; v. 277; p. 417.
Tire-tread for pneumatic-tire casings and making and attaching same. O. J. Hobson. No. 1,327,912; Jan. 13; v. 270; p. 254.
Tire-tread puller. J. Schmidt. No. 1,354,849; Oct. 5; v. 279; p. 80.
Tire-treads, Apparatus for laying or forming. H. I. Morris. No. 1,353,933; Sept. 28; v. 278; p. 574.
Tire treads, Die for making pneumatic-. E. D. Valentine. No. 1,338,047; Mar. 9; v. 272; p. 218.
Tire-treads, Tool for cutting. J. E. Shaw. No. 1,328,547; Jan. 20; v. 270; p. 411.
Tire-treads, Vulcanizer's die for preserving antiskid. O. L. McCormick. No. 1,338,233; Apr. 27; v. 273; p. 683.
Tire-treating machine. C. L. Durham. No. 1,341,500; May 25; v. 274; p. 743.
Tire-trimming table. L. B. Pierson. No. 1,329,849; Feb. 3; v. 271; p. 95.
Tire-tube carrier, Auto-. C. Jerabek. No. 1,351,517; Aug. 31; v. 277; p. 894.
Tire-tube-making apparatus. D. Lowe. No. 1,337,930; Apr. 20; v. 273; p. 557.
Tire-tube mandrel. D. A. Clark and C. E. Lowe. No. 1,330,785; Feb. 17; v. 271; p. 369.
Tire-turning device. F. Southwick. No. 1,345,644; July 6; v. 276; p. 62.
Tire-valve. A. C. Berg. No. 1,344,854; June 29; v. 275; p. 882.
Tire-valve. S. J. Greene. No. 1,334,996; Mar. 30; v. 272; p. 752.
Tire-valve. E. V. Myers. No. 1,338,245; Apr. 27; v. 273; p. 686.
Tire-valve. B. Pangrazio. No. 1,351,400; Aug. 31; v. 277; p. 871.
Tire-valve cap. M. C. Schweinert. No. 1,356,476; Oct. 19; v. 279; p. 491.
Tire-valve cap. R. H. Simpson. No. 1,349,922; Aug. 17; v. 277; p. 473.
Tire-valve, Safety. W. K. Bauhaus. No. 1,330,108; Feb. 10; v. 271; p. 174.
Tire-valves, Dust-cap for. G. B. Mullen. No. 1,353,061; Sept. 14; v. 278; p. 299.
Tire valves, Dust-cap for pneumatic. J. W. Laird. No. 1,349,463; Aug. 10; v. 277; p. 312.
Tire valves, Dust-cap for protecting automobile-. J. Shaw. No. 1,335,861; Apr. 6; v. 273; p. 29.
Tire-valves, Making. H. P. Kraft. No. 1,359,075; Nov. 16; v. 280; p. 471.
Tire, Vehicle-. J. Allend. No. 1,343,540; June 15; v. 275; p. 494.
Tire, Vehicle-. E. B. Brown. No. 1,347,679; July 27; v. 276; p. 642.
Tire, Vehicle-. H. E. Grabau. No. 1,350,995; Aug. 24; v. 277; p. 728.
Tire, Vehicle-. H. H. Holdaway. No. 1,345,777; July 6; v. 276; p. 88.
Tire, Vehicle-. C. R. Irvine. No. 1,352,870; Sept. 7; v. 278; p. 125.
Tire, Vehicle-. A. Jakovleff. No. 1,335,713; Mar. 30; v. 272; p. 886.
Tire, Vehicle-. G. C. Lehr. No. 1,353,921; Sept. 28; v. 278; p. 572.
Tire, Vehicle-. D. H. Moore. No. 1,352,805; Sept. 7; v. 278; p. 114.
Tire, Vehicle-. D. Moriarty. No. 1,334,110; Mar. 16; v. 272; p. 478.
Tire, Vehicle-. J. Parrino. No. 1,331,358; Feb. 17; v. 271; p. 476.
Tire, Vehicle-. J. A. Prince and A. L. Gilles. No. 1,346,766; July 13; v. 276; p. 346.
Tire, Vehicle- R. S. Reed. No. 1,346,336; July 13; v. 276; p. 261.
Tire, Vehicle-. W. H. Robinson. No. 1,340,984; May 25; v. 274; p. 643.
Tire, Vehicle-. E. R. Simms. No. 1,336,790; Apr. 13; v. 273; p. 266.
Tire, Vehicle-. W. and J. G. Small. No. 1,346,514; July 13; v. 276; p. 296.
Tire, Vehicle-. W. J. Stoltz. No. 1,338,595; Apr. 27; v. 273; p. 751.
Tire, Vehicle-wheel. L. S. Atkinson. No. 1,346,074; July 6; v. 276; p. 148.
Tire-vulcanizer. G. B. Cooper. No. 1,346,483; July 13; v. 276; p. 290.
Tire-vulcanizer. C. Nordstrom. No. 1,340,973; May 25; v. 274; p. 641.
Tire-vulcanizing device. F. B. Pfeiffer. No. 1,327,841; Jan. 13; v. 270; p. 241.
Tire-vulcanizing machine. A. W. Meyers. No. 1,358,770; Nov. 16; v. 280; p. 412.
Tire-vulcanizing machine, Continuous. T. F. Baily and F. T. Cope. No. 1,346,158; July 13; v. 276; p. 225.
Tire-vulcanizing mechanism. G. W. Bulley. No. 1,359,487; Nov. 23; v. 280; p. 597.
Tire-vulcanizing mechanism. B. H. Rose. No. 1,362,189; Dec. 14; v. 281; p. 288
Tire-vulcanizing mold. E. W. Fothergill. No. 1,331,146; Feb. 17; v. 271; p. 437.
Tire-vulcanizing mold. O. MacLanglois. No. 1,358,381; Nov. 9; v. 280; p. 290.
Tire-vulcanizing mold. M. L. Munger. No. 1,334,629; Mar. 23; v. 272; p. 621.
Tire-vulcanizing mold. C. L. Smith and E. S. Webster. No. 1,355,120; Nov. 9; v. 280; p. 238.
Tire, Wheel-. W. Seidel. No. 1,344,773; June 29; v. 275; p. 867.
Tire wrapping and unwrapping apparatus. C. Ziegler. No. 1,336,328; Apr. 6; v. 273; p. 118.
Tire wrapping and unwrapping apparatus. C. Ziegler. No. 1,336,329; Apr. 6; v. 273; p. 118.
Tires, Air-Pump for inflating pneumatic. J. M. E. Franc. No. 1,350,926; Aug. 24; v. 277; p. 714.
Tires and air-bags therefor, Making pneumatic. F. Fenton. No. 1,335,101; Mar. 30; v. 272; p. 772.
Tires and demountable rims to carriers, Device for locking. W. F. Murphy. No. 1,361,086; Dec. 7; v. 281; p. 21.
Tires and machine for practising the same, Wrapping. E. H. Angier. No. 1,354,371; Sept. 28; v. 278; p. 663.
Tires and making same, Inner tube for pneumatic. O. T. Bugg. No. 1,329,954; Feb. 3; v. 271; p. 114.
Tires and mechanism for practising the same, Forming. H. J. Doughty. No. 1,337,207; Apr. 20; v. 273; p. 419.
Tires and product thereof, Retreading rubber. E. Nestler. No. 1,354,992; Oct. 5; v. 279; p. 108.
Tires and wheels, Tool for handling and manipulating vehicle. L. R. Schmertz. No. 1,345,889; July 6; v. 276; p. 110.

Digitized by Google

Alphabetical list of inventions—Continued.

Tires, Antiskid attachment for. F. M. Fichten. No. 1,349,149; Aug. 10; v. 277; p. 250.
Tires, Antiskid attachment for vehicle-. G. W. Lambert. No. 1,335,691; Mar. 30; v. 272; p. 882.
Tires, Antiskid chain for wheel-. V. Mikulecky. No. 1,357,334; Nov. 2; v. 280; p. 26.
Tires, Antiskid device for. G. B. Waite. No. 1,343,293; June 15; v. 275; p. 445.
Tires, Antiskid for. W. Reinl. No. 1,349,295; Aug. 10; v. 277; p. 279.
Tires, Antiskidding-armor for truck-. F. McLaughlin. No. 1,336,363; Apr. 6; v. 273; p. 124.
Tires, Antiskidding device for. W. F. A. Bailey. No. 1,350,484; Aug. 24; v. 277; p. 630.
Tires, Apparatus and method for building pneumatic. B. Darrow. No. 1,335,879; Apr. 6; v. 273; p. 33.
Tires, Apparatus and method for forming inner tubes for pneumatic. W. C. Tyler. No. 1,332,779; Mar. 2; v. 272; p. 115.
Tires, Apparatus for making inner. J. J. Wohlgemuth and F. Lilly. No. 1,329,872; Feb. 3; v. 271; p. 99.
Tires, Apparatus for manufacturing solid. W. J. Steinle. No. 1,356,891; Oct. 26; v. 279; p. 619.
Tires, Apparatus for mounting or removing pneumatic. J. W. Brand. No. 1,352,020; Sept. 14; v. 278; p. 290.
Tires, Apparatus for repairing. J. W. Arthur. No. 1,344,847; June 29; v. 275; p. 881.
Tires, Apparatus for the manufacture of solid band-. F. Cole. No. 1,355,734; Oct. 12; v. 279; p. 305.
Tires, Automatic telltale for pneumatic. J. E. Kennedy. No. 1,338,637; Apr. 27; v. 273; p. 759.
Tires, Bead-forming ring for molding pneumatic. J. Schmidt. No. 1,350,117; Aug. 17; v. 277; p. 511.
Tires, Blow-out patch for pneumatic. C. Horine. No. 1,359,380; Nov. 16; v. 280; p. 530.
Tires, Carcass fabric for pneumatic. J. F. Palmer. No. 1,344,145; June 22; v. 275; p. 678.
Tires, Cogging and like mills for. T. E. Holmes. No. 1,357,055; Oct. 26; v. 279; p. 652.
Tires, Composition for sealing punctures in pneumatic. N. O. Selby. No. 1,363,438; Dec. 28; v. 281; p. 622.
Tires, Core for resilient. C. D. McCollough. No. 1,362,714; Dec. 21; v. 281; p. 442.
Tires, Device for making. P. I. Anderson. No. 1,359,779; Nov. 23; v. 280; p. 655.
Tires, Device for securing removable treads on motor-. R. A. Mudge. No. 1,358,975; Nov. 16; v. 280; p. 453.
Tires. Device for use in changing. J. E. Erickson. No. 1,339,504; May 11; v. 274; p. 235.
Tires, Display-stand for. C. W. Yelm. No. 1,342,731; June 8; v. 275; p. 271.
Tires, Display-stand for automobile-. F. Stern. No. 1,361,112; Dec. 7; v. 281; p. 26.
Tires during vulcanizing, Means for treating vehicle-. F. G. Flegal. No. 1,340,440; May 18; v. 274; p. 469.
Tires, Dust-cap for valves of pneumatic. W. P. Hammond. No. 1,331,060; Feb. 17; v. 271; p. 422.
Tires, Elastic mailed sleeve for. J. Nowakowski. No. 1,359,910; Nov. 23; v. 280; p. 681.
Tires from cores, Method and apparatus for removing. R. B. Day. No. 1,332,812; Mar. 2; v. 272; p. 122.
Tires from rims, Device for removing. G. G. Jones. No. 132,135; Sept. 7; v. 278; p. 81.
Tires, Inner-tube covering for. F. S. Bennett. No. 1,346,632; July 13; v. 276; p. 319.
Tires, Inner tube for. J. A. Perkins. No. 1,339,283; May 4; v. 274; p. 116.
Tires, Inner tube for pneumatic. J. J. Voorhees, Jr. No. 1,336,178; Apr. 6; v. 273; p. 89.
Tires, Machine and building. W. C. Stevens. No. 1,352,099; Sept. 7; v. 278; p. 75.
Tires, Machine for making cord-. K. O. B. Textorius. No. 1,359,632; Nov. 23; v. 280; p. 625.
Tires, Making. P. I. Anderson. No. 1,335,150; Mar. 30; v. 272; p. 781.
Tires, Making cushion-. F. W. Strang. No. 1,346,380; July 13; v. 276; p. 271.
Tires, Making elastic vehicle-. J. A. Swinehart. No. 1,349,390; Aug. 10; v. 277; p. 298.
Tires, Making pneumatic. N. W. McLeod. No. 1,328,006; Jan. 13; v. 270; p. 271.
Tires, Making rubber. J. A. Swinehart. No. 1,326,991; Jan. 6; v. 270; p. 21.
Tires, Mandrel for making inner tubes for pneumatic. F. R. McCarty. No. 1,344,702; June 29; v. 275; p. 853.
Tires, Manufacture of. C. Macbeth. No. 1,343,460; June 15; v. 275; p. 478.
Tires, Manufacture of pneumatic. T. Sloper. No. 1,354,425; Sept. 28; v. 278; p. 674.
Tires, Manufacture of solid rubber. C. Macbeth and W. E. Hardeman. No. 1,353,769; Sept. 21; v. 278; p. 498.
Tires, Manufacturing. H. M. Lambert. No. 1,351,856; Sept. 7; v. 278; p. 29.
Tires, Means for automatically inflating pneumatic. J. C. Cooper. No. 1,358,524; Nov. 9; v. 280; p. 319.
Tires, Means for vulcanizing rubber. J. Ledwinka. No. 1,348,228; Aug. 3; v. 277; p. 19.
Tires, Method and apparatus for manufacture of. J. A. Bowerman. No. 1,327,802; Jan. 13; v. 270; p. 284.
Tires, Method and apparatus for vulcanizing. W. G Crush. No. 1,357,617; Nov. 2; v. 280; p. 78.
Tires, Method of and apparatus for making. H. J. Doughty. No. 1,356,132; Oct. 19; v. 279; p. 424.
Tires, Multiple-compartment inner tube for automobile and other. J. N. Shafer. No. 1,341,936; June 1; v. 275; p. 64.
Tires, Non-skid attachment for automobile-. J. M. Green. No. 1,348,992; Aug. 10; v. 277; p. 219.
Tires, Non-skid chain for automobile-. T. T. Pierce. No. 1,357,897; Nov. 2; v. 280; p. 133.
Tires of the solid or band type, Manufacture of rubber. C. and A. E. Burnett. No. 1,351,156; Aug. 31; v. 277; p. 821.
Tires or interliners, Apparatus for manufacturing. W. F. Ray. (Reissue.) No. 14,879; June 8; v. 275; p. 363.
Tires, Pneumatic core for repairing. A. L. Johnson and A. O. Alsten. No. 1,337,707; Apr. 20; v. 273; p. 514.
Tires, Pump for inflating pneumatic. E. P. Hultin. No. 1,349,671; Aug. 17; v. 277; p. 426.
Tires, Puncture-proof inner tube for. P. A. Sawyer. No. 1,332,309; Mar. 2; v. 272; p. 25.
Tires, Resilient core for. J. H. Dalbey. No. 1,351,894; Sept. 7; v. 278; p. 86.
Tires, Resilient inner tube for vehicle-. F. P. Woodward. No. 1,346,290; July 13; v. 276; p. 252.
Tires, Retreading. S. H. Goldberg. No. 1,336,624; Apr. 13; v. 273; p. 234.
Tires, Retreading. F. Maier. No. 1,336,911; Apr. 13; v. 273; p. 289.
Tires, Retreading solid rubber. E. S. Long. No. 1,330,128; Feb. 10; v. 271; p. 178.
Tires, Shoe for pneumatic. J. G. Wolfe. No. 1,362,979; Dec. 21; v. 281; p. 493.
Tires, Signal for indicating subnormal pressure in pneumatic. A. G. Ewing. No. 1,351,237; Aug. 31; v. 277; p. 638.
Tires, Signal for indicating subnormal pressure in pneumatic. C. T. and A. G. Ewing. No. 1,350,016; Aug. 17; v. 277; p. 492.
Tires, Thread attachment for. W. C. Cranston. No. 1,338,175; Apr. 27; v. 273; p. 672.
Tires to rims, Means for fastening cushion-. L. F. Nienaber. No. 1,355,771; Oct. 12; v. 279; p. 312.
Tires to worn casings, Applying repair-. C. C. Gates. No. 1,341,121; May 25; v. 274; p. 669.
Tires, Tool for inserting plugs in. H. R. Hirst. No. 1,347,005; July 27; v. 276; p. 707.
Tires, Tool for use in removing and replacing. V. H. Mankey. No. 1,342,295; June 1; v. 275; p. 134.
Tires, Tread-block for. G. B. Waite. No. 1,343,294; June 15; v. 275; p. 446.
Tires, Valve-cap for pneumatic. R. P. Adams. No. 1,345,073; July 6; v. 276; p. 147.
Tires, Valve for pneumatic. M. J. Payne. No. 1,333,091; Mar. 9; v. 272; p. 226.
Titanium and manufacture of same, Compound of. V. M. Goldschmidt. No. 1,348,129; July 27; v. 276; p. 731.
Titanium compounds from titaniferous material and the product obtained thereby, Extracting. G. Jebsen. No. 1,333,819; Mar. 16; v. 272; p. 423.
Titanium compounds, Preparation of. H. Wrigley and H. Spence. No. 1,338,473; Apr. 27; v. 273; p. 728.
Titanium compounds, Producing. P. Farup. No. 1,343,441; June 15; v. 275; p. 474.
Titanium hydrates and the product obtained thereby, Elimination of undesired acid substances from. G. Jebsen. No. 1,361,866; Dec. 14; v. 281; p. 224.
Titanium hydrates and the product obtained thereby, Removal of undesired acid substance from. G. Jebsen. No. 1,361,867; Dec. 14; v. 281; p. 224.
Titanium-oxygen compounds, Manufacture of. P. Farup. No. 1,341,307; May 25; v. 274; p. 705.
Titanium products and producing same from precipitated titanium hydrates. R. Nielsen and V. M. Goldschmidt. No. 1,343,469; June 15; v. 275; p. 479.
Titanium solutions, Treating. F. E. Bachman. No. 1,354,940; Oct. 5; v. 279; p. 98.
Titration. W. P. Heath. No. 1,358,950; Nov. 16; v. 280; p. 448.
Toaster. F. W. Collier. No. 1,358,932; Nov. 16; v. 280; p. 445.
Toaster. L. G. Copeman. No. 1,347,013; July 20; v. 276; p. 454.
Toaster. L. G. Copeman. No. 1,356,042; Oct. 19; v. 279; p. 405.
Toaster. T. Harrington. No. 1,343,129; June 8; v. 275; p. 351.
Toaster and boiler-support, Combined. A. C. Pattison. No. 1,349,529; Aug. 10; v. 277; p. 325.
Toaster, Automatic. A. McCormick. No. 1,329,421; Feb. 3; v. 271; p. 14.
Tobacco-boxes, Match-holding attachment for commercial. A. C. Burtis. No. 1,341,295; May 25; v. 274; p. 703.
Tobacco-curing. A. C. Buensod. No. 1,339,373; May 4; v. 274; p. 133.
Tobacco-curing. A. C. Buensod. No. 1,339,374; May 4; v. 274; p. 134.
Tobacco curing and treating. A. C. Buensod. No. 1,339,375; May 4; v. 274; p. 134.
Toaster, Electric. B. M. Beskow. No. 1,332,879; Mar. 9; v. 272; p. 186.
Toaster, Electric. H. J. McClain. No. 1,330,642; Feb. 10; v. 271; p. 274.

Digitized by Google

Toaster, Electric. E. P. Taylor. No. 1,331,829; Feb. 24; v. 271; p. 586.
Toaster, Electric. M. A. Thomas and B. M. Beskow. No. 1,332,935; Mar. 9, v. 272; p. 196.
Toasting and boiling device. W. H. Ketler. No. 1,336,565; Apr. 13; v. 273; p. 222.
Tobacco-biter. L. E. Ashenfelter. No. 1,353,944; Sept. 28; v. 278; p. 576.
Tobacco-box. J. Golonka. No. 1,360,927; Nov. 30; v. 280; p. 948.
Tobacco-can attachment. R. R. Hamilton. No. 1,329,595; Feb. 3; v. 271; p. 47.
Tobacco-case. A. E. Ma Gee. No. 1,361,341; Dec. 7; v. 281; p. 72.
Tobacco, Curing. E. G. Beinhart. No. 1,327,692; Jan. 13; v. 270; p. 213.
Tobacco, Envelop for burning. F. J. Roffels. No. 1,339,577; May 11; v. 274; p. 248.
Tobacco-extractor. H. J. Penn. No. 1,328,964; Jan. 27; v. 270; p. 519.
Tobacco-furnace. E. C. Veazey. No. 1,359,550; Nov. 23; v. 280; p. 610.
Tobacco-hanging machine. L. J. Paylor. No. 1,362,893; Dec. 21; v. 281; p. 477.
Tobacco-hiller. E. G. Collins. No. 1,329,375; Feb. 3; v. 271; p. 6.
Tobacco, Improving. K. Erslev. No. 1,331,331; Feb. 17; v. 271; p. 471.
Tobacco-leaf, Process and apparatus for stripping. O. Hammerstein. No. 1,338,768; May 4; v. 274; p. 22.
Tobacco-leaf stretching and sizing machine. B. J. Kahn. No. 1,348,497; Aug. 3; v. 277; p. 71.
Tobacco-leaves or leaves of like plants, Fluid for treating. S. Hagino. No. 1,334,752; Mar. 23; v. 272; p. 645.
Tobacco, Method of and means for preserving. C. C. Dula. No. 1,346,533; July 13; v. 276; p. 300.
Tobacco mixture. C. C. Nelson. No. 1,338,089; Apr. 27; v. 273; p. 656.
Tobacco, Packing and preserving plug-. C. C. Dula. No. 1,355,658; Oct. 12; v. 279; p. 290.
Tobacco-pipe. A. Dunhill. No. 1,341,418; May 25; v. 274; p. 727.
Tobacco-pipe. W. H. Gerhard. No. 1,329,396; Feb. 3; v. 271; p. 10.
Tobacco-pipe. G. F. Gundlach. No. 1,359,986; Nov. 23; v. 280; p. 696.
Tobacco-pipe. H. J. Hays. No. 1,349,276; Aug. 10; v. 277; p. 275.
Tobacco-pipe. J. W. Ivory. No. 1,336,233; Apr. 6; v. 273; p. 100.
Tobacco-pipe. N. J. Mooney. No. 1,356,388; Oct. 19; v. 279; p. 474.
Tobacco-pipe. L. Suedmeyer. No. 1,336,393; Apr. 6; v. 273; p. 130.
Tobacco-pipe, cigar-holder, and the like. A. Dunhill and T. G. Mandeville. No. 1,343,253; June 15; v. 275; p. 438.
Tobacco-pouch. J. Grundy. No. 1,357,496; Nov. 2; v. 280; p. 55.
Tobacco-pouch. W. Scheuer. No. 1,361,908; Dec. 14; v. 281; p. 232.
Tobacco-pouches, Apparatus for making. F. F. Jameson. No. 1,353,477; Sept. 21; v. 278; p. 439.
Tobacco, Preserving manufactured or leaf. V. C. Alsina and G. Fernandez. No. 1,352,421; Sept. 14; v. 278; p. 171.
Tobacco products, Packaging. J. E. Williamson, H. F. Popken, and A. G. Vale. No. 1,347,530; July 27; v. 276; p. 611.
Tobacco-smoking device. J. Flajollet. No. 1,344,874; June 29; v. 275; p. 886.
Tobacco-sorter's bracket. C. S. Kinney. No. 1,331,268; Feb. 17; v. 271; p. 459.
Tobacco-stemming machine. H. F. Richter. No. 1,347,403; July 20; v. 276; p. 530.
Tobacco-stemming machine. H. F. Richter. No. 1,347,404; July 20; v. 276; p. 530.
Tobacco tin or box. J. M. Heasley. No. 1,336,228; Apr. 6; v. 273; p. 99.
Toe-softener. F. M. Furber. No. 1,340,825; May 18; v. 274; p. 541.
Toe-steamer. T. J. Willma. No. 1,348,340; Aug. 3; v. 277; p. 42.
Toffee, Machine for breaking up. H. R. H. Clayton and O. J. Rose. No. 1,335,937; Apr. 6; v. 273; p. 44.
Toggle-bolt. R. S. Peirce. No. 1,357,821; Nov. 2; v. 280; p. 118.
Toggle-bolt and holder. T. Dowd. No. 1,360,200; Nov. 23; v. 280; p. 738.
Toggle connection. J. J. Cassidy. No. 1,338,171; Apr. 27; v. 273; p. 672.
Toggle-press. C. J. Wennberg. No. 1,333,648; Mar. 16; v. 272; p. 392.
Toggle-switch, Surface. W. J. Newton. No. 1,361,170; Dec. 7; v. 281; p. 37.
Toilet appliance. S. Stevens. No. 1,357,742; Nov. 2; v. 280; p. 103.
Toilet article. S. S. Booty. No. 1,351,364; Aug. 31; v. 277; p. 865.
Toilet article. M. L. Grossman. No. 1,330,372; Feb. 10; v. 271; p. 223.
Toilet article. N. A. Levitan. No. 1,339,265; May 4; v. 274; p. 113.
Toilet article. E. Pace. No. 1,362,892; Dec. 21; v. 281; p. 477.
Toilet article. H. Schneider. No. 1,339,673; May 11; v. 274; p. 267.
Toilet article, Combination. R. E. Brown. No. 1,343,959; June 15; v. 275; p. 642.
Toilet-bowl cleaner. E. Y. Drake. No. 1,361,972; Dec. 14; v. 281; p. 245.
Toilet box. A. Garbell. No. 1,336,216; Apr. 6; v. 273; p. 97.
Toilet-case. H. Felsenthal and L. W. Kaestner. No. 1,344,124; June 22; v. 275; p. 674.
Toilet, Indoor. A. E. Dowell. No. 1,363,459; Dec. 28; v. 281; p. 626.
Toilet, Nursery-. M. Collins. No. 1,358,933; Nov. 16; v. 280; p. 445.
Toilet package. M. B. Cannon. No. 1,346,441; July 13; v. 276; p. 282.
Toilet-pins, Apparatus for manufacturing. M. Vidaver. No. 1,353,294; Sept. 21; v. 278; p. 403.
Toilet, Sanitary. E. G. Friedrich. No. 1,346,311; July 13; v. 276; p. 256.
Toilet-seat. F. B. Connor. No. 1,359,873; Nov. 23; v. 280; p. 673.
Toilet-seat. L. Lemberg. No. 1,354,496; Oct. 5; v. 279; p. 10.
Toilet-seat, Auxiliary. E. L. Delany. No. 1,334,137; Mar. 16; v. 272; p. 484.
Toilet-seat cover, Sanitary. J. I. Levy. No. 1,358,222; Nov. 9; v. 280; p. 257.
Toilet-seat, Infants'. F. M. Oakes. No. 1,348,372; Aug. 3; v. 277; p. 48.
Toilet, Sterilizing. E. G. Friedrich. No. 1,333,073; Mar. 9; v. 272; p. 223.
Token. M. V. Bauer. No. 1,353,709; Sept. 21; v. 278; p. 487.
Toll-collecting mechanism. C. B. Davis. No. 1,350,958; Aug. 24; v. 277; p. 721.
Toll-lines, Signaling-circuit for. J. Davidson, Jr. No. 1,361,024; Dec. 7; v. 281; p. 9.
Toll trunk-circuit. O. F. Cassaday. No. 1,336,615; Apr. 13; v. 273; p. 232.
Tomato and fruit sorter and distributer. T. J. Peters. No. 1,340,079; May 11; v. 274; p. 343.
Tomato-masher. E. Spirito. No. 1,342,877; June 8; v. 275; p. 301.
Tomatoes, Organized mechanism for skinning and coring. H. R. Harding. No. 1,356,447; Oct. 19; v. 279; p. 485.
Tomb. J. F. McGair. No. 1,362,882; Dec. 21; v. 281; p. 475.
Tone-arm base. A. R. Spicacci. No. 1,363,061; Dec. 21; v. 281; p. 510.
Tone-arm mechanism. E. T. Condon, Jr. No. 1,334,351; Mar. 23; v. 272; p. 570.
Tone-modifier. E. F. Copp. No. 1,354,171; Sept 28 v. 278; p. 623.
Tone-transformer. W. C. Kidder. No. 1,362,326; Dec. 14; v. 281; p. 315.
Tongs. J. Bernath. No. 1,338,065; Apr. 27; v. 273; p. 652.
Tongs. A. H. Lee. No. 1,343,057; June 8; v. 275; p. 336.
Tongs. C. L. Nickle. No. 1,330,648; Feb. 10; v. 271; v. 275.
Tongs, Chain. W. E. Fahrner. No. 1,355,597; Oct. 12; v. 279; p. 279.
Tongs, Clothes-. L. M. Larson and C. J. Carlson. No. 1,350,028; Aug. 17; v. 277; p. 494.
Tongs, Fruit-jar. F. M. Masker. No. 1,343,518; June 15; v. 275; p. 489.
Tongs, Grappling-. S. R. Burgson. No. 1,356,515; Oct. 26; v. 279; p. 546.
Tongs, Ice-cream-can. C. A. Sigmond. No. 1,351,493; Aug. 31; v. 277; p. 889.
Tongs, Lifting-. E. G. Kay. No. 1,360,114; Nov. 23; v. 280; p. 721.
Tongs, Lifting-. J. H. Smith. No. 1,350,675; Aug. 24; v. 277; p. 667.
Tongs, Pipe-. H. W. Fletcher No. 1,337,509; Apr. 20; v. 273; p. 476.
Tongs, Pipe-. R. D. Hill. No. 1,332,984; Mar. 9; v. 272; p. 206.
Tongs, Pipe and casing. L. L. Richard. No. 1,351,217; Aug. 31; v. 277; p. 834.
Tongs, Power-operated. S. E. Barlow. No. 1,346,160; July 13; v. 276; p. 226.
Tongs, Shelf-. E. J. Walsh. No. 1,328,860; Jan. 27; v. 270; p. 499.
Tongs, Shield for button-cutters' shell-. W. J. Koch. No. 1,349,889; Aug. 17; v. 277; p. 468.
Tongs, Tie-handling. H. R. Stovall. No. 1,337,101; Apr. 13; v. 273; p. 325.
Tongs, Wire cutting and twisting. J. B. Bradley. No. 1,348,694; Aug. 3; v. 277; p. 109.
Tongue-ball. R. W. Boje, Jr. No. 1,352,047; Sept. 7; v 278; p. 65.
Tongue, Cultivator-. I. A. Franklin and S. E. Mangum. No. 1,343,258; June 15; v. 275; p. 489.
Tongue-depressor. C. M. Bugbee. No. 1,344,020; June 22; v. 275; p. 654.

Digitized by Google

Alphabetical list of inventions—Continued.

Tongue-depressor. J. M. Park. No. 1,330,711; May 11; v. 274; p. 275.
Tongue hound, Adjustable. F. J. Dultmeier. No. 1,363,503; Dec. 28; v. 281; p. 635.
Tongue, Implement-. E. A. Hensal. No. 1,333,846; Mar. 16; v. 272; p. 428.
Tongue, Vehicle-. D. Cameron. No. 1,345,125; June 29; v. 275; p. 933.
Tongue, Vehicle draft-. G. F. Zaun. No. 1,361,512; Dec. 7; v. 281; p. 108.
Tonneau-table, Automobile. F. M. Wills. No. 1,348,613; Aug. 3; v. 277; p. 94.
Tonsil-snare. J. J. Moyer. No. 1,359,908; Nov. 23; v. 280; p. 680.
Tonsillotome. W. W. Nauth. No. 1,347,651; July 27; v. 276; p. 636.
Tonsillotome. S. A. Van Osdel. No. 1,361,649; Dec. 7; v. 281; p. 135.
Tonsillectome, Clamp-. E. Hyslin. No. 1,362,701; Dec. 21; v. 281; p. 440.
Tool. F. Argento. No. 1,358,015; Nov. 16; v. 280; p. 460.
Tool. M. C. Conwell. No. 1,361,686; Dec. 7; v. 281; p. 142.
Tool. L. W. Diem. No. 1,357,154; Oct. 26; v. 279; p. 671.
Tool. W. A. Findlay. No. 1,351,947; Sept. 7; v. 278; p. 47.
Tool. F. J. Harrison. No. 1,348,413; Aug. 3; v. 277; p. 56.
Tool. S. Hillman. No. 1,331,566; Feb. 24; v. 271; p. 536.
Tool. F. C. Hossie and H. Wild. No. 1,332,898; Mar. 9; v. 272; p. 189.
Tool. O. Kamfe. No. 1,334,100; Mar. 16; v. 272; p. 476.
Tool. F. G. Lawson. No. 1,355,053; Oct. 5; v. 279; p. 120.
Tool. E. Morris. No. 1,327,566; Jan. 6; v. 270; p. 128.
Tool. B. H. Parker. No. 1,353,847; Sept. 28; v. 278, p. 557.
Tool. V. H. Peterson. No. 1,352,688; Sept. 14; v. 278; p. 224.
Tool. W. O. Powers. No. 1,331,824; Feb. 24; v. 271; p. 585.
Tool. J. O. Roberts. No. 1,333,778; Mar. 16; v. 272; p. 416.
Tool. R. G. Smith. No. 1,330,403; Feb. 10; v. 271; p. 229.
Tool. V. W. Thayer. No. 1,358,037; Nov. 9; v. 280; p. 221.
Tool, Adjustable gripping-. W. W. Shirley. No. 1,347,764; July 27; v. 276; p. 660.
Tool and lock, Combination. W. A. Skinner. No. 1,330,657; Feb. 10; v. 271; p. 276.
Tool and tool-holder. S. F. Hall. No. 1,361,851; Dec. 14; v. 281; p. 221.
Tool, Antiskid-chain. D. C. Woodworth. No. 1,338,804; May 4; v. 274; p. 29.
Tool, Auto-rim. P. O. Probasco. No. 1,344,562; June 22; v. 275; p. 710.
Tool, Automobile-tire. L. H. Osterhage. No. 1,336,916; Apr. 13; v. 273; p. 290.
Tool, Bead-forming. D. E. Maxfield and C. B. Green. No. 1,332,740; Mar. 2; v. 272; p. 108.
Tool, Bolt-applying. P. R. Smith. No. 1,362,585; Dec. 14; v. 281; p. 365.
Tool, Bolt-shearing. T. M. Province. No. 1,354,843; Oct. 5; v. 279; p. 79.
Tool, Bolter-up. A. Nault. No. 1,333,333; Mar. 9; v. 272; p. 271.
Tool, Boring-. A. E. Claudon. No. 1,350,965; Nov. 23; v. 280; p. 692.
Tool, Boring-. L. P. Crosman. No. 1,362,477; Dec. 14; v. 281; p. 344.
Tool, Boring-. E. Gairing. No. 1,357,042; Oct. 26; v. 279; p. 649.
Tool, Boring-. G. H. Janes, 3d. No. 1,354,830; Oct. 5; v. 279; p. 76.
Tool, Boring-. G. Koehler. No. 1,327,049; Jan. 6; v. 270; p. 82.
Tool, Boring-. W. C. Meredith and W. C. Willis. No. 1,352,825; Sept. 14; v. 278; p. 252.
Tool, Boring-. J. Van Der Vorn. No. 1,350,394; Aug. 24; v. 277; p. 612.
Tool, Boring and cutting. G. G. Porter. No. 1,360,016; Nov. 23; v. 280; p. 702.
Tool, Boring and reaming. C. F. Heinkel. No. 1,337,015; Apr. 13; v. 273; p. 309.
Tool, Boring and slotting. H. Hathaway. No. 1,328,430; Jan. 20; v. 270; p. 388.
Tool-box. A. Balboni. No. 1,340,870; May 25; v. 274; p. 621.
Tool-box. S. R. Smith. No. 1,349,859; Aug. 17; v. 277; p. 462.
Tool-box and sawhorse, Combination. O. B. Robbins. No. 1,345,247; June 29; v. 275; p. 957.
Tool-box, Knockdown. P. T. Hewey. No. 1,350,099; Aug. 17; v. 277; p. 508.
Tool, Brickmason's. D. E. Hale and J. E. McCormick. No. 1,342,439; June 8; v. 275; p. 215.
Tool, Burnishing-. L. J. Van Guelpen. No. 1,362,762; Dec. 21; v. 281; p. 452.
Tool, Bushing-removing. A. K. Case. No. 1,357,146; Oct. 26; v. 279; p. 669.
Tool, Butting-. R. W. Ayling. No. 1,352,341; Sept. 7; v. 278; p. 120.
Tool, Calking-. G. H. Hamm. No. 1,336,295; Apr. 6; v. 273; p. 111.
Tool, Calking-. L. Paulero. No. 1,358,326; Nov. 9; v. 280; p. 278.
Tool, Cap-removing. C. L. Johnson. No. 1,342,848; June 8; v. 275; p. 295.
Tool, Carbid-lamp. J. Lacko. No. 1,360,232; Nov. 23; v. 280; p. 744.
Tool, Carbon-removing. H. F. Martin. No. 1,344,549; June 22; v. 275; p. 758.
Tool-carrier, Garment-supported. R. R. Thomas. No. 1,354,026; Oct. 5; v. 279; p. 96.
Tool-carrying arm, Extensible. S. Lake. No. 1,335,512; Mar. 30; v. 272; p. 848.
Tool-carrying spindle. C. E. Van Norman. No. 1,339,308; May 4; v. 274; p. 121.
Tool-clamp. W. L. Ross. No. 1,350,240; Aug. 17; v. 277; p. 535.
Tool, Collapsible. P. P. Baldwin. No. 1,331,138; Feb. 17; v. 271; p. 436.
Tool, Combination-. M. S. Bassisty. No. 1,356,119; Oct. 19; v. 279; p. 422.
Tool, Combination-. O. T. Carlson. No. 1,344,114; June 22; v. 275; p. 672.
Tool, Combination-. E. Court. No. 1,360,891; Nov. 30; v. 280; p. 941.
Tool, Combination-. R. H. Dean. No. 1,358,530; Nov. 9; v. 280; p. 320.
Tool, Combination-. A. F. Eddy. No. 1,356,431; Oct. 19; v. 279; p. 483.
Tool, Combination-. J. and S. Faix. No. 1,339,698; May 11; v. 274; p. 272.
Tool, Combination-. E. J. Hansen. No. 1,329,707; Feb. 3; v. 271; p. 67.
Tool, Combination-. H. B. Keiper. No. 1,328,250; Jan. 18; v. 270; p. 318.
Tool, Combination-. O. H. Lay. No. 1,331,204; Feb. 17; v. 271; p. 448.
Tool, Combination-. O. Lee. No. 1,344,046; June 22; v. 275; p. 659.
Tool, Combination-. A. L. Lucas. No. 1,346,409; July 13; v. 276; p. 275.
Tool, Combination-. W. R. Peters. No. 1,331,368; Feb. 17; v. 271; p. 478.
Tool, Combination-. H. G. Wernimont. No. 1,334,425; Mar. 23; v. 272; p. 584.
Tool, Combination-. J. Ziegler. No. 1,353,445; Sept. 21; v. 278; p. 433.
Tool, Compound. W. H. Crummey. No. 1,344,264; June 22; v. 275; p. 701.
Tool, Compound. M. Wojdacz. No. 1,331,798; Feb. 24; v. 271; p. 579.
Tool, Compound pneumatic impact-. W. Burlingham. No. 1,344,170; June 22; v. 275; p. 683.
Tool, Concrete edging and marking. H. F. Connelly. No. 1,347,938; July 27; v. 276; p. 693.
Tool, Concrete-finishing. W. Grundmann. No. 1,348,639; Aug. 3; v. 277; p. 99.
Tool, Cone or gear pulling. A. L. Blessing and C. O. Nelson. No. 1,355,028; Oct. 5; v. 279; p. 115.
Tool, Crank-pin rounding and truing. G. K. Burton and W. H. Stolpe. No. 1,333,605; Mar. 16; v. 272; p. 383.
Tool, Crank-pin-refinishing. S. A. Nonsuch. No. 1,341,577; May 25; v. 274; p. 758.
Tool, Cutting-. E. I. Chapin and F. E. Baker. No. 1,351,467; Aug. 31; v. 277; p. 884.
Tool, Cutting-. J. T. Dietz. No. 1,345,320; June 29; v. 275; p. 971.
Tool, Cutting-. F. P. Miller. No. 1,358,013; Nov. 9; v. 280; p. 217.
Tool, Cutting-. L. G. Morris. No. 1,357,075; Oct. 26; v. 279; p. 656.
Tool, Cutting-. J. R. Naugle. No. 1,341,067; May 25; v. 274; p. 660.
Tool, Cutting-. H. K. Porter. No. 1,348,735; Aug. 3; v. 277; p. 117.
Tool, Cutting-. C. H. Schurr. No. 1,329,806; Feb. 3; v. 271; p. 86.
Tool, Dental. P. R. Skinner. No. 1,329,274; Jan. 27; v. 270; p. 576.
Tool, Dental drilling-. W. E. Chester. No. 1,333,888; Mar. 9; v. 272; p. 281.
Tool, Dental massage-. W. L. Jones. No. 1,340,959; May 25; v. 274; p. 638.
Tool, Diamond-point cutting-. P. Poulain. No. 1,346,056; July 6; v. 276; p. 144.
Tool, Dressing-. W. E. Ross. No. 1,343,871; June 15; v. 275; p. 562.
Tool, Dressing-. W. E. Ross. No. 1,348,328; Aug. 3; v. 277; p. 38.
Tool-dressing device. C. G. Olson. No. 1,357,814; Nov. 2; v. 280; p. 117.
Tool-driver, Power-driven. G. D. Alexander. No. 1,341,701; June 1; v. 275; p. 17.
Tool-driver, Spiral. F. Booth. No. 1,330,053; Feb. 10; v. 271; p. 164.
Tool, Electric welding-. J. C. Ritchey and F. G. Williams. No. 1,359,620; Nov. 23; v. 280; p. 623.

Digitized by Google

Tool, Electrically-heated. F. Kuhn, L. H. Thomas, and J. G. Spiess. No. 1,353,965; Sept. 28; v. 278; p. 581
Tool, Expansible contractible. J. H. Auble. No. 1,332,455; Mar. 2; v. 272; p. 54.
Tool, Filing-. C. C. Morey. No. 1,337,940; Apr. 20; v. 273; p. 559.
Tool, Fluid-operated. C. A. Hultquist. No. 1,342,540; June 8; v. 275; p. 234.
Tool, Fluid-operated. H. R. Newbert. No. 1,333,725; Mar. 16; v. 272; p. 406.
Tool, Fluid-operated percussive. L. C. Bayles. No. 1,343,610; June 15; v. 275; p. 508.
Tool, Fluid-operated percussive. H. I. Stage. No. 1,353,796; Sept. 21; v. 278; p. 503.
Tool for alining and fitting machine parts. J. Peyer. No. 1,352,311; Sept. 7; v. 278; p. 115.
Tool for forming taper-holes. A. E. Simpson. No. 1,355,065; Oct. 5; v. 279; p. 128.
Tool for making holes non-circular. E. E. Hollander. No. 1,328,085; Jan. 13; v. 270; p. 287.
Tool for stretching, tightening, and twisting the free ends of wire lengths. C. E. Wise. No. 1,351,598; Aug. 31; v. 277; p. 910.
Tool, Fuse-. H. Walker. No. 1,356,243; Oct. 19; v. 279; p. 446.
Tool, Garden-. J. E. Dodd. No. 1,348,096; July 27; v. 276; p. 725.
Tool, Garden-. O. H. Oleen. No. 1,341,392; June 1; v. 275; p. 151.
Tool, Garden-. E. L. Peterson. No. 1,328,191; Jan. 13; v. 270; p. 307.
Tool, Garden-. R. Pruett. No. 1,341,196; May 25; v. 274; p. 684.
Tool, Garden-. E. W. Sagert. No. 1,334,969; Mar. 30; v. 272; p. 746.
Tool, Graining-. P. A. Gstalder. No. 1,347,029; July 20; v. 276; p. 457.
Tool, Graining-. P. A. Gstalder. No. 1,347,030; July 20; v. 276; p. 457.
Tool, Grappling-. L. Scarbrough. No. 1,340,083; May 11; v. 274; p. 344.
Tool, Grinding-. P. U. Lovelace. No. 1,346,036; July 6; v. 276; p. 140.
Tool, Groove-cutting. J. A. Lewis. No. 1,352,522; Sept. 14; v. 278; p. 191.
Tool, Hand-. J. R. Ayotte. No. 1,349,553; Aug. 17; v. 277; p. 403.
Tool, Hand-. A. J. Mangini. No. 1,331,348; Feb. 17; v. 271; p. 474.
Tool, Hand-. V. F. Reich. No. 1,347,972; July 27; v. 276; p. 700.
Tool, Hand scraping-. C. L. Aagaard. No. 1,345,658; July 6; v. 276; p. 65.
Tool-handle. H. S. Earle. No. 1,343,552; June 15; v. 275; p. 497.
Tool-handle. R. C. Hill. No. 1,360,991; Nov. 30; v. 280; p. 961.
Tool-handle. J. E. Hultberg. No. 1,353,043; Sept. 14; v. 278; p. 293.
Tool-handle. W. McKenzie. No. 1,341,378; May 25; v. 274; p. 720.
Tool-handle. W. McKenzie. No. 1,352,012; Sept. 7; v. 278; p. 59.
Tool-handle. J. L. Osgood. No. 1,355,685; Oct. 12; v. 279; p. 295.
Tool handle, Percussive-. R. H. Wilhelm. No. 1,358,486; Nov. 9; v. 280; p. 311.
Tool-handles, Producing grips for. C. T. Dickey. No. 1,330,791; Feb. 17; v. 271; p. 370.
Tool-handles, Two-part self-locking rivet for. H. B. Hemingway. No. 1,339,198; May 4; v. 274; p. 101.
Tool-handles, Wedge-fastener for. J. S. Johnston. No. 1,343,781; June 15; v. 275; p. 542.
Tool head and handle construction. J. T. F. Bantjes. No. 1,336,185; Apr. 6; v. 273; p. 91.
Tool-holder. F. T. Alcock. No. 1,327,934; Jan. 13; v. 270; p. 258.
Tool-holder. F. L. Bates. No. 1,331,840; Feb. 24; v. 271; p. 588.
Tool-holder. M. J. Breen. No. 1,342,983; June 8; v. 275; p. 322.
Tool-holder. W. C. Brooks. No. 1,330,514; Feb. 10; v. 271; p. 250.
Tool-holder. L. G. Copeman. No. 1,361,021; Dec. 7; v. 281; p. 8.
Tool-holder. O. Cronau. No. 1,341,206; May 25; v. 274; p. 686.
Tool-holder. O. Engels. No. 1,351,632; Aug. 31; v. 277; p. 917.
Tool-holder. C. M. Fehl. No. 1,331,490; Feb. 24; v. 271; p. 521.
Tool-holder. J. C. Fletcher. No. 1,343,257; June 15; v. 275; p. 439.
Tool-holder. S. S. Fuller. No. 1,355,902; Oct. 19; v. 279; p. 378.
Tool-holder. A. E. Johnson. No. 1,327,561; Jan. 6; v. 270; p. 127.
Tool-holder. G. Kalberer. No. 1,344,557; June 22; v. 275; p. 756.
Tool-holder. A. McMillan. No. 1,362,810; Dec. 21; v. 281; p. 462.
Tool-holder. J. H. Mason. No. 1,334,775; Mar. 23; v. 272; p. 649.
Tool-holder. J. F. Randa. No. 1,359,103; Nov. 16; v. 280; p. 476.
Tool-holder. P. H. Rouillard. No. 1,355,698; Oct. 12; v. 279; p. 298.
Tool-holder. L. Q. Presby. No. 1,336,155; Apr. 6; v. 273; p. 85.
Tool-holder. J. J. Riley and E. E. Blackstone. No. 1,346,978; July 20; v. 276; p. 447.
Tool-holder. M. W. Schilliberg. No. 1,342,600; June 8; v. 275; p. 246.
Tool-holder. G. C. Schoenborn. No. 1,341,934; June 1; v. 275; p. 63.
Tool-holder. A. Skibinski. No. 1,342,031; June 1; v. 275; p. 82.
Tool-holder. G. E. Smith. No. 1,357,123; Oct. 26; v. 279; p. 665.
Tool-holder. C. A. Strand. No. 1,361,198; Dec. 7; v. 281; p. 43.
Tool-holder. C. Whitfield. No. 1,354,636; Oct. 5; v. 279; p. 38.
Tool-holder. W. S. Whyte. No. 1,362,657; Dec. 21; v. 281; p. 431.
Tool-holder clutch device. L. E. Evslin. No. 1,355,659; Oct. 12; v. 279; p. 290.
Tool holder, Long-bit-. G. W. Dover. No. 1,356,609; Oct. 26; v. 279; p. 564.
Tool holder, Multiple-. J. H. Fullmer. No. 1,352,949; Sept. 14; v. 278; p. 276.
Tool-holder, Pocket. M. Manning. No. 1,339,213; May 4; v. 274; p. 104.
Tool, Combination-. S. P. Holish. No. 1,363,874; Dec. 28; v. 281; p. 707.
Tool, Combination hand-. G. B. Caldwell. No. 1,338,420; Apr. 27; v. 273; p. 718.
Tool, Countersinking-. G. R. Ehlers. No. 1,362,529; Dec. 14; v. 281; p. 354.
Tool, Electrically-heated. F. Kuhn, L. H. Thomas, and J. G. Spiess. No. 1,363,473; Dec. 28; v. 281; p. 629.
Tool, Electrically-heated. F. Kuhn, L. H. Thomas, and J. G. Spiess. No. 1,363,474; Dec. 28; v. 281; p. 629.
Tool. Fuse-. S. P. Blackmore. No. 1,361,301; Dec. 7; v. 281; p. 63.
Tool holder, Shaping and similar. A. C. Twigg. No. 1,355,929; Oct. 19; v. 279; p. 383.
Tool holder, Shaping, slotting, and similar. A. C. Twigg. No. 1,355,930; Oct. 19; v. 279; p. 383.
Tool-holder or tool. J. M. Lamb. No. 1,336,466; Apr. 13; v. 273; p. 203.
Tool-holder, Pocket. H. L. Krans. No. 1,336,083; Apr. 6; v. 273; p. 72.
Tool-holding implement. J. W. Stoke. No. 1,339,725; May 11; v. 274; p. 277.
Tool, Hoop-removing. W. A. Vannam-Smith and T. J. Maynard. No. 1,357,533; Nov. 2; v. 280; p. 62.
Tool, Hose-clamp. G. A. De Graff. No. 1,330,431; Feb. 10; v. 271; p. 234.
Tool, Hose-clamp. B. Henrikson. No. 1,347,579; July 27; v. 276; p. 622.
Tool, Hose-clamping. F. W. Gunn. No. 1,353,338; Sept. 21; v. 278; p. 412.
Tool, Hose-clamping. C. E. Kent. No. 1,334,657; Mar. 23; v. 272; p. 627.
Tool, Insulated. J. A. Weaver. No. 1,343,101; June 8; v. 275; p. 345.
Tool, Interchangeable-jawed. W. Fiftal. No. 1,338,005; Apr. 27; v. 273; p. 640.
Tool, Jawed. J. H. Ridings. No. 1,334,965; Mar. 30; v. 272; p. 745.
Tool-joint. H. C. Lyle. No. 1,349,518; Aug. 10; v. 277; p. 323.
Tool-joint. G. A. and R. M. Stafford. No. 1,344,774; June 29; v. 275; p. 867.
Tool, Jointer-. P. L. Frazier. No. 1,327,151; Jan. 6; v. 270; p. 51.
Tool, Jointing-. J. W. Wright. No. 1,354,443; Sept. 28; v. 278; p. 678.
Tool, Lathe-. G. W. Dover. No. 1,328,947; Jan. 27; v. 270; p. 516.
Tool, Machine-. H. G. Krauss. No. 1,344,236; June 22; v. 275; p. 695.
Tool, Machine-. J. Loose. No. 1,348,502; Aug. 3; v. 277; p. 72.
Tool, Mechanic's. F. M. Ashley. No. 1,362,981; Dec. 21; v. 281; p. 493.
Tool, Mechanic's. A. Ozerowicz. No. 1,341,757; June 1; v. 275; p. 29.
Tool, Metal-cutting. F. W. Heywood. No. 1,348,279; Aug. 3; v. 277; p. 80.
Tool, Metal-cutting. G. Pendleton. No. 1,356,822; Oct. 26; v. 279; p. 618.
Tool, Nurling-. W. S. Austin. No. 1,349,254; Aug. 10; v. 277; p. 271.
Tool, Nurling-. A. Djidics. No. 1,328,498; Jan. 20; v. 270; p. 402.
Tool, Nut-turning. A. G. Adair. No. 1,329,571; Feb. 3; v. 271; p. 43.
Tool of the revoluble type and making same, Composite. D. P. Kellogg. No. 1,327,101; Jan. 6; v. 270; p. 42.
Tool or cutter head. C. H. Roth. No. 1,327,881; Jan. 13; v. 270; p. 248.

Digitized by Google

Alphabetical list of inventions—Continued.

Tool or work holding device. W. J. Burger and M. E. Lange. No. 1,346,295; July 13; v. 276; p. 253.
Tool or work holding device. J. E. Ryan. No. 1,331,080; Feb. 17; v. 271; p. 417.
Tool, Overshot fishing-. E. A. Kliewer. No. 1,337,476; Apr. 20; v. 273; p. 470.
Tool, Percussion-. W. H. Keller. No. 1,350,505; Aug. 24; v. 277; p. 634.
Tool, Percussion-. A. Schinkez. No. 1,346,341; July 13; v. 276; p. 262.
Tool, Percussive. W. A. Smith. No. 1,355,175; Oct. 12; v. 279; p. 197.
Tool, Percussive. W. A. Smith. No. 1,359,119; Nov. 16; v. 280; p. 479.
Tool, Plano-. R. C. Bishop. No. 1,362,220; Dec. 14; v. 281; p. 295.
Tool, Pipe expanding, cutting, or nurling. F. T. Conley. No. 1,335,660; Mar. 30; v. 272; p. 876.
Tool, Pipe-fishing. L. Wilkinson. No. 1,358,807; Nov. 16; v. 280; p. 420.
Tool, Pipe-flanging. J. F. Walters. No. 1,350,904; Aug. 24; v. 277; p. 710.
Tool, Piston-groove. L. de F. Munger. No. 1,351,057; Aug. 31; v. 277; p. 803.
Tool, Piston-grooving. C. Muller. No. 1,346,838; July 20; v. 276; p. 419.
Tool, Piston-ring. N. C. Ensworth. No. 1,354,034; Sept. 28; v. 278; p. 595.
Tool, Pneumatic. O. J. and C. Blake. No. 1,334,438; Mar. 23; v. 272; p. 585.
Tool, Pneumatic. F. L. Henig. No. 1,352,191; Sept. 7; v. 278; p. 91.
Tool, Pneumatic. M. D. Karles. No. 1,345,495; July 6; v. 276; p. 33.
Tool, Pneumatic. W. H. Palmer. No. 1,362,503; Dec. 21; v. 281; p. 530.
Tool, Pneumatic impact-. W. Burlingham. No. 1,357,312; Nov. 2; v. 280; p. 21.
Tool-post. P. M. Bedard. No. 1,347,988; July 27; v. 276; p. 703.
Tool, Precision machine-. A. E. Jerram. No. 1,344,536; June 22; v. 275; p. 755.
Tool, Pressure-fluid actuated-. W. H. Keller. No. 1,329,774; Feb. 3; v. 271; p. 80.
Tool, Reversible countersink-. C. Swanson. No. 1,332,777; Mar. 2; v. 272; p. 115.
Tool, Revolving. L. M. Harvey. No. 1,354,828; Oct. 5; v. 279; p. 76.
Tool, Rim-. C. P. Beach. No. 1,331,859; Feb. 24; v. 271; p. 592.
Tool, Rim-. W. J. Berg and A. B. Kidder. No. 1,341,104; May 25; v. 274; p. 666.
Tool, Rim-. J. W. Bond. No. 1,326,907; Jan. 6; v. 270; p. 4.
Tool, Rim-. E. H. Lamiell. No. 1,360,415; Nov. 30; 280; p. 848.
Tool, Rim-. P. R. Peterson. No. 1,335,795; Apr. 6; v. 273; p. 17.
Tool, Rim-. W. J. Radcliffe. No. 1,357,822; Nov. 2; v. 280; p. 119.
Tool, Rim contracting or expanding. F. M. Ross and H. L. Cook. No. 1,360,849; Feb. 10; v. 271; p. 219.
Tool, Riveting-. S. Myerson. No. 1,357,247; Nov. 2; v. 280; p. 9.
Tool, Riveting-. S. R. Nichols. No. 1,348,040; July 27; v. 276; p. 714.
Tool, Riveting-. E. L. Rogness. No. 1,331,381; Feb. 17; v. 271; p. 480.
Tool-rod. E. R. Schwarz and A. J. Martenay. No. 1,350,425; Aug. 24; v. 277; p. 618.
Tool, Roof-framing. L. A. Van Nest. No. 1,337,107; Apr. 13; v. 273; p. 326.
Tool, Saw-filing. F. Knizek. No. 1,330,042; Feb. 3; v. 271; p. 130.
Tool, Saw gaging and setting. B. J. Barger. No. 1,328,554; Jan. 20; v. 270; p. 412.
Tool, Scale-removing. A. Crammond. No. 1,359,793; Nov. 23; v. 280; p. 657.
Tool, Scraping. N. W. Dingwall. No. 1,341,047; May 25; v. 274; p. 655.
Tool, Shearing-. H. Brunelle. No. 1,360,618; Nov. 30; v. 280; p. 888.
Tool, Shoe-finishing. G. J. Julian. No. 1,335,786; Apr. 6; v. 273; p. 16.
Tool-slides, Cam mechanism for operating. A. A. Jr., and H. Butterworth. No. 1,357,682; Nov. 2; v. 280; p. 91.
Tool- Soldering-. H. Romanoff. No. 1,357,425; Nov. 2; v. 280; p. 42.
Tool, Spring-inserting. L. A. Suekoff. No. 1,352,157; Sept. 7; v. 278; p. 85.
Tool, Spring lathe-. I. Pal. No. 1,354,776; Oct. 5; v. 279; p. 66.
Tool-support. H. F. Haensler. No. 1,341,848; June 1; v. 275; p. 47.
Tool, Taper-boring. R. Muden. No. 1,330,385; Feb. 10; v. 271; p. 226.
Tool, Taper-turning. M. A. Culling. No. 1,329,265; Jan. 27; v. 270; p. 575.
Tool, Thread-cutting. E. P. Davis. No. 1,332,289; Mar. 2; v. 272; p. 22.
Tool, Threading-. J. J. Flynn. No. 1,350,861; Aug. 24; v. 277; p. 702.
Tool, Tipping hand-. M. Fried. No. 1,328,508; Jan. 20; v. 270; p. 404.
Tool, Tire-. J. Bjornlie. No. 1,343,893; June 22; v. 275; p. 629.
Tool, Tire-. J. F. Giese. No. 1,358,948; Nov. 16; v. 280; p. 448.
Tool, Tire-. W. P. Rylander. No. 1,358,336; Nov. 9; v. 280; p. 280.
Tool, Tire-. C. E. Singleton. No. 1,352,550; Sept. 4; v. 278; p. 197.
Tool, Tire-chain. S. G. Doolittle. No. 1,360,199; Nov 23; v. 280; p. 737.
Tool, Tire opening and holding. P. O. Sampson. No. 1,356,504; Oct. 19; v. 279; p. 496.
Tool, Tire-removing. C. C. F. Reininger. No. 1,332,191; Feb. 24; v. 271; p. 653.
Tool, Tire-repair. H. R. Hirst. No. 1,343,971; June 22; v. 275; p. 644.
Tool, Tire-repair. C. Wieland. No. 1,344,838; June 29; v. 275; p. 879.
Tool, Tire-repairing. W. C. Rannoy. No. 1,332,412; Mar. 2; v. 272; p. 46.
Tool, Tire-rim. F. L. Willis and H. O. Thomas. No. 1,349,541; Aug. 10; v. 277; p. 327.
Tool, Tree-barking. E. Evans. No. 1,352,057; Sept. 7; v. 278; p. 67.
Tool, Trench-cutting. R. A. Specht. No. 1,357,359; Nov. 2; v. 280; p. 30.
Tool, Turning-. E. Simeone. No. 1,327,410; Jan. 6; v. 270; p. 98.
Tool, Tube-cutting. N. F. Fretter. No. 1,348,636; Aug. 3; v. 277; p. 98.
Tool, Universal clamping-. F. H. Sovereign. No. 1,329,728; Feb. 3; v. 271; p. 71.
Tool, Valve-. E. W. Sheibley. No. 1,357,204; Oct. 26; v. 279; p. 680.
Tool, Valve-face-cutting. H. F. Martin. No. 1,344,550; June 22; v. 275; p. 758.
Tool, Valve-facing. S. D. Hartog. No. 1,352,599; Sept. 14; v. 278; p. 206.
Tool, Valve-grinding. E. L. Beardsley. No. 1,347,243; July 20; v. 276; p. 498.
Tool, Valve-grinding. C. Gieser and G. Shaffer. No. 1,346,783; July 13; v. 276; p. 350.
Tool, Valve-grinding. E. G. Thompson. No. 1,352,638; Sept. 14; v. 278; p. 214.
Tool, Valve-grinding. J. E. Wainwright. No. 1,345,043; June 29; v. 275; p. 917.
Tool, Valve-grinding. H. W. Wolf. No. 1,334,479; Mar. 23; v. 272; p. 593.
Tool, Valve grinding and reseating. W. B. Martin. No. 1,357,408; Nov. 2; v. 280; p. 39.
Tool, Valve-spring-compressing. E. Pederson. No. 1,360,440; Nov. 30; v. 280; p. 853.
Tool, Valve-stem. H. J. Wilgus. No. 1,345,651; July 6; v. 276; p. 63.
Tool, Vulcanizing-. O. A. Peterson and O. M. Brancel. No. 1,344,313; June 22; v. 275; p. 711.
Tool, Weed-cutting. W. G. Hanscom, C. H. Kohler, and E. L. Peet. No. 1,354,969; Oct. 5; v. 279; p. 104.
Tool, Weeding-. L. J. and D. C. Panetti. No. 1,340,624; May 18; v. 274; p. 504.
Tool, Welder's. R. O. Williams. No. 1,345,817; July 6; v. 276; p. 96.
Tool, Welding-. R. E. B. Wakefield. No. 1,343,242; June 15; v. 275; p. 437.
Tool, Well-boring. S. Toth. No. 1,347,469; July 20; v. 276; p. 543.
Tool, Well-drilling. W. A. McCausland. No. 1,342,855; June 8; v. 275; p. 297.
Tool, Wire-bending. V. Olhovsky. No. 1,337,616; Apr. 20; v. 273; p. 497.
Tool, Wire-binding. L. Davies. No. 1,328,423; Jan. 20; v. 270; p. 387.
Tool, Wire-scraping. A. Lichtenstein. No. 1,337,236; Apr. 20; v. 273; p. 425.
Tool, Wire-straightening. F. L. Cervenka. No. 1,329,226; Jan. 27; v. 270; p. 568.
Tool, Wire-stretching. W. D. Manly. No. 1,352,983; Sept. 14; v. 278; p. 283.
Tool, Wire-tensioning. G. P. Herrick. No. 1,330,705; Feb. 10; v. 271; p. 285.
Tool, Wire-twisting. J. McDonald. No. 1,347,282; July 20; v. 276; p. 507.
Tool, Wire-wrapping. O. Fachman. No. 1,340,029; May 11; v. 274; p. 334.
Tools, Attachment for pneumatic. A. E. Moore. No. 1,360,136; Nov. 23; v. 280; p. 726.
Tools, Attachment for pneumatic shearing-. E. L. Rouse. No. 1,362,354; Dec. 14; v. 281; p. 320.
Tools, Conveying liquid to rock-drilling. W. E. Nettle, P. Selby, J. Blyth, and J. H. Holman. No. 1,339,858; May 11; v. 274; p. 302.
Tools for turning, boring, and similar purposes, Manufacturing of. W. E. Kimber. No. 1,359,459; Nov. 16; v. 280; p. 546.
Tools, Holder for drilling and riveting. E. S. Astin. No. 1,348,074; July 27; v. 276; p. 721.
Tools, Manufacturing composite. D. P. Kellogg. No. 1,327,100; Jan. 6; v. 270; p. 42.
Tools, Means for lubricating machine-. W. F. McCarty. No. 1,337,931; Apr. 20; v. 273; p. 557.

Digitized by Google

Tools, Mechanism for driving. A. E. Bergey. No. 1,352,045; Sept. 7; v. 278; p. 64.
Tools, Mechanism for driving. A. E. Bergey. No. 1,357,376; Nov. 2; v. 280; p. 33.
Tools, Support for pneumatic. W. Walker. No. 1,335,807; Apr. 6; v. 273; p. 20.
Tools, Throttle-valve for percussive. H. V. Haight. No. 1,350,407; Aug. 24; v. 277; p. 614.
Tools, Valve for percussive. W. A. Smith. No. 1,350,342; Aug. 24; v. 277; p. 601.
Tools, Valve for pneumatic percussive. R. W. Wilson. No. 1,361,431; Dec. 7; v. 281; p. 91.
Tooth and backing, Anterior. F. E. Hanscom. No. 1,335,734; Apr. 6; v. 273; p. 6.
Tooth and backing for bridgework, Interchangeable. D. S. Highkin. No. 1,357,289; Nov. 2; v. 280; p. 17.
Tooth and backing for bridgework, Posterior interchangeable. D. S. Highkin. No. 1,348,798; Aug. 3; v. 277; p. 128.
Tooth and backing for bridgework, Posterior interchangeable. D. S. Highkin. No. 1,348,799; Aug. 3; v. 277; p. 128.
Tooth and making same, Artificial. E. P. Ott. No. 1,348,041; July 27; v. 276; p. 714.
Tooth, Artificial. W. Arkin. No. 1,335,717; Apr. 6; v. 273; p. 3.
Tooth, Artificial. S. Earp. No. 1,342,376; June 1; v. 275; p. 148.
Tooth, Artificial. I. M. Hair. No. 1,333,804; Mar. 16; v. 272; p. 421.
Tooth, Artificial. G. A. Louque. No. 1,351,578; Aug. 31; v. 277; p. 906.
Tooth, Artificial. M. E. Merker. No. 1,341,813; June 1; v. 275; p. 40.
Tooth, Artificial. L. L. Poston. No. 1,338,959; May 4; v. 274; p. 57.
Tooth, Artificial. F. W. Shapley. No. 1,363,169; Dec. 14; v. 281; p. 349.
Tooth, Artificial. J. R. Sheppard. No. 1,354,515; Oct. 5; v. 279; p. 13.
Tooth, Artificial. G. H. Whiteley, Jr. No. 1,353,190; Sept. 21; v. 278; p. 385.
Tooth, Artificial. E. M. Withycombe. No. 1,333,097; Mar. 9; v. 272; p. 210.
Tooth, Bridge-. F. C. Goodwin. No. 1,335,681; Mar. 30; v. 272; p. 880.
Tooth brush and paste holder. E. Lippert. No. 1,335,250; Mar. 30; v. 272; p. 798.
Tooth-brush, Rotary. M. Eisner and A. M. Freeman. No. 1,338,821; May 4; v. 274; p. 32.
Tooth-crown fastening. H. E. Schmidt. No. 1,354,696; Oct. 5; v. 279; p. 50.
Tooth cutter, Detachable-. C. C. Cashman. No. 1,340,474; May 18; v. 274; p. 475.
Tooth cutter, Inserted-. T. E. Ritchie. No. 1,354,578; Oct. 5; v. 279; p. 26.
Tooth, Detachable. C. A. Conover. No. 1,351,623; Aug. 31; v. 277; p. 915.
Tooth, Dipper-. V. N. Seal. No. 1,330,143; Feb. 10; v. 271; p. 181.
Tooth-filling. W. G. Turner. No. 1,349,592; Aug. 17; v. 277; p. 410.
Tooth-fillings, Device for measuring material for. J. F. Fietsch. No. 1,353,467; Sept. 21; v. 278; p. 437.
Tooth having an interchangeable facing. F. C. Goodwin. No. 1,342,379; June 1; v. 275; p. 149.
Tooth, Interchangeable. A. H. Smith. No. 1,334,119; Mar. 16; v. 272; p. 480.
Tooth point, Renewable cutting-. W. L. Edmondson. No. 1,340,385; May 18; v. 274; p. 459.
Tooth-polishing device. W. L. Ellerbeck. No. 1,335,825; Apr. 6; v. 273; p. 23.
Tooth-shade guide. I. S. Berger. No. 1,327,306; Jan. 6; v. 270; p. 79.
Toothbrush. U. L. Albers. No. 1,326,900; Jan. 6; v. 270; p. 3.
Toothbrush. D. A. Bolard. No. 1,360,615; Nov. 30; v. 280; p. 888.
Toothbrush. P. B. Burleigh. No. 1,327,807; Jan. 13; v. 270; p. 235.
Toothbrush. J. J. Fits-Gibbon. No. 1,346,536; July 13; v. 276; p. 300.
Toothbrush. A. Glatt. No. 1,357,285; Nov. 2; v. 280; p. 17.
Toothbrush. G. E. Hartman. No. 1,360,292; Nov. 30; v. 280; p. 824.
Toothbrush. L. Karas. No. 1,335,689; Mar. 30; v. 272; p. 881.
Toothbrush. N. Laudiero. No. 1,329,980; Feb. 3; v. 271; p. 119.
Toothbrush. R. H. Lieberthel. No. 1,343,570; June 15; v. 275; p. 500.
Toothbrush. G. R. Martz. No. 1,334,770; Mar. 23; v. 272; p. 649.
Toothbrush. M. Mueller. No. 1,353,780; Sept. 21; v. 278; p. 500.
Toothbrush. J. Simon. No. 1,357,354; Nov. 2; v. 280; p. 20.
Toothbrush. J. S. Westhafer. No. 1,340,093; May 11; v. 274; p. 346.
Toothbrush and dentifrice holder, Pocket. C. E. Townsend. No. 1,343,240; June 15; v. 275; p. 436.
Toothbrush and paste case. W. O. Snyder. No. 1,349,110; Aug. 10; v. 277; p. 242.
Toothbrush, Electrically-vibrated. P. J. Fitzgerald. No. 1,342,280; June 1; v. 275; p. 131.
Toothbrush, Folding. C. W. Lloyd. No. 1,345,939; July 6; v. 276; p. 121.
Toothbrush, Folding. P. G. Schwarz. No. 1,362,269; Dec. 14; v. 281; p. 304.
Toothbrush, Fountain-. C. P. Breining. No. 1,340,115; May 11; v. 274; p. 351.
Toothbrush, Fountain-. J. T. Cook. No. 1,358,523; Nov. 9; v. 280; p. 319.
Toothbrush, Fountain-. J. A. Sargery and O. Dupont. No. 1,336,390; Apr. 6; v. 273; p. 130.
Toothbrush-holder. J. R. Cluxton. No. 1,356,487; Oct. 19; v. 279; p. 493.
Toothbrush-holder. L. E. Erslin. No. 1,361,842; Dec. 14; v. 281; p. 219.
Toothbrush, Protected. K. Yanagihara. No. 1,342,521; June 8; v. 275; p. 230.
Toothbrush, Reversible. D. G. White. No. 1,337,173; Apr. 13; v. 273; p. 839.
Toothbrush, Rotary. W. N. and R. L. Cavileer. No. 1,351,159; Aug. 31; v. 277; p. 822.
Toothbrush, Rotary. G. B. Ehrig. No. 1,340,760; May 18; v. 274; p. 529.
Toothbrush, Rotary. J. Goldstein. No. 1,330,525; Feb. 10; v. 271; p. 252.
Toothbrush, Rotary. B. W. Leach. No. 1,341,916; June 1; v. 275; p. 59.
Toothbrush, Rubber. W. J. Eggers. No. 1,327,757; Jan. 13; v. 270; p. 226.
Toothpick. E. Dziuk. No. 1,355,637; Oct. 5; v. 279; p. 117.
Toothpick and match picker, Automatic. F. Hille. No. 1,361,857; Dec. 14; v. 281; p. 222.
Top. C. Garniss. No. 1,355,601; Oct. 12; v. 279; p. 279.
Top. W. J. Kerr. No. 1,338,572; Apr. 27; v. 273; p. 747.
Top. W. J. Kerr. No. 1,338,573; Apr. 27; v. 273; p. 747.
Top. W. J. Kerr. No. 1,338,574; Apr. 27; v. 273; p. 747.
Top. W. J. Kerr. No. 1,338,575; Apr. 27; v. 273; p. 747.
Top, Folding. M. Buch. No. 1,336,022; Apr. 6; v. 273; p. 60.
Top, Folding. M. Buch. No. 1,342,012; June 1; v. 275; p. 78.
Top, Gyroscopic. K. Edison. No. 1,351,630; Aug. 31; v. 277; p. 916.
Top, Hot-. L. B. Lindemuth. No. 1,332,905; Mar. 9; v. 272; p. 191.
Top, Hot-. L. B. Lindemuth. No. 1,332,906; Mar. 9; v. 272; p. 191.
Top-spinner. J. D. Lytle. No. 1,334,873; Mar. 23; v. 272; p. 669.
Top, Spinning-. H. C. Sauter. No. 1,349,226; Aug. 10; v. 277; p. 265.
Top, Spinning-. A. M. Smith. No. 1,355,514; Oct. 12; v. 279; p. 263.
Topping and stripping machine. H. O. Scranton. No. 1,343,589; June 15; v. 275; p. 504.
Torch. W. F. Pagel. No. 1,343,403; June 15; v. 275; p. 467.
Torch, Acetylene-. C. Johnson. No. 1,328,329; Jan. 20; v. 270; p. 370.
Torch, Blow-. F. W. Clifford. No. 1,344,988; June 29; v. 275; p. 907.
Torch distributer-head. E. L. Claus. No. 1,348,390; Aug. 3; v. 277; p. 51.
Torch, Electric. A. A. King. No. 1,358,639; Nov. 9; v. 280; p. 341.
Torch for cutting tubes, Oxyacetylene-. J. S. Reynolds. No. 1,345,242; June 29; v. 275; p. 356.
Torch for gas-burners, Ignition-. E. L. Claus. No. 1,339,102; May 4; v. 274; p. 85.
Torch, Kerosene-burning. C. L. Hinkson. No. 1,341,127; May 25; v. 274; p. 671.
Torch, Liquid-fuel. A. J. Preining. No. 1,338,840; May 4; v. 274; p. 35.
Torch, Marine. G. R. Holmes. No. 1,333,313; Mar. 9; v. 272; p. 267.
Torch or burner. B. F. Hardt and S. T. Taylor. No. 1,338,653; Apr. 27; v. 273; p. 761.
Torch, Oxyacetylene, carbohydrogen, or the like. F. F. Davis. No. 1,359,155; Nov. 16; v. 280; p. 486.
Torch, Oxyacetylene cutting and welding. T. A. Errett. No. 1,335,569; Mar. 30; v. 272; p. 858.
Torch, Oxygen-acetylene welding-. C. Molas. No. 1,360,431; Nov. 30; v. 280; p. 851.
Torch, Oxyhydrogen cutting-. C. J. Coberly. No. 1,340,099; May 18; v. 274; p. 518.
Torch, Safety electric welding-. E. Jahoda. No. 1,340,270; May 18; v. 274; p. 436.
Torch, Self-blowing. E. Folgman. No. 1,330,696; Feb. 10; v. 271; p. 284.
Torch, Universal quick-thaw. J. W. Moss. No. 1,341,514; May 25; v. 274; p. 746.
Torch, Welding and cutting. G. A. Baudet. No. 1,361,667; Dec. 7; v. 281; p. 138.
Torches, Circle-guide oxyacetylene-. H. J. Forster. No. 1,351,846; Sept. 7; v. 278; p. 26.
Torches, Tip for welding-. M. K. Dunham. No. 1,330,522; Feb. 10; v. 271; p. 251.

Digitized by Google

Alphabetical list of inventions—Continued.

Torches, Tool-holder for blow-. W. and C. Pruessing. No 1,354,065; Sept. 28; v. 278; p. 601.
Toric-tool protractor. J. H. Pearson. No. 1,356,656; Oct. 26; v. 279; p. 573.
Torpedo, Aerial. M. H. Fahrenholz. No. 1,330,181; May 4; v. 274; p. 98.
Torpedo, Aerial. J. Frecska. No. 1,339,188; May 4; v. 274; p. 100.
Torpedo, Aerial. W. T. O'Connor. No. 1,355,564; Oct. 12; v. 279; p. 273.
Torpedo, Aerial. T. M. Patrick. No. 1,361,286; Dec. 7; v. 281; p. 61.
Torpedo, Aerial. C. C. Stevens. No. 1,331,398; Feb. 17; v. 271; p. 484.
Torpedo, Aero-submarine. E. A. Rider. No. 1,337,960; Apr. 20; v. 273; p. 563.
Torpedo, Automobile. C. Radiguer. No. 1,334,401; Mar. 23; v. 272; p. 579.
Torpedo, Automobile-. E. Lees and H. W. Ridsdale. No. 1,351,526; Aug. 31; v. 277; p. 896.
Torpedo, Automobile. H. W. Shonnard. No. 1,360,036; Nov. 23; v. 280; p. 706.
Torpedo, Automobile. H. W. Shonnard. No. 1,360,037; Nov. 23; v. 280; p. 706.
Torpedo capturing and destroying net. E. Kohler. No. 1,337,920; Apr. 20; v. 273; p. 555.
Torpedo-controlling mechanism. W. G. Shelton. No. 1,346,264; July 13; v. 276; p. 247.
Torpedo-defense. E. Nazzaremo. No. 1,345,623; July 6; v. 276; p. 58.
Torpedo-director. A. del Solar. No. 1,346,273; July 13; v. 276; p. 249.
Torpedo-director. A. del Solar. No. 1,362,683; Dec. 21; v. 281; p. 436.
Torpedo-flask. A. H. Chase and H. L. Boesch. No 1,354,091; Sept. 28; v. 278; p. 607.
Torpedo-guard. K. Babecki. No. 1,337,502; Apr. 20; v. 273; p. 475.
Torpedo-guard. A. D. Dunigan. No. 1,335,670; Mar. 30; v. 272; p. 878.
Torpedo-guard. A. Starr. No. 1,330,729; Feb. 10; v. 271; p. 290.
Torpedo-guard. O. H. Thompson. No. 1,328,549; Jan. 20; v. 270; p. 411.
Torpedo-holder. C. O. Stanley. No. 1,330,823; Feb. 17; v. 271; p. 375.
Torpedo, Land-. E. Graham. No. 1,350,220; Aug. 17; v. 277; p. 532.
Torpedo-launching apparatus. H. E. Greishaber. No. 1,327,614; Jan. 13; v. 270; p. 198.
Torpedo, Marine. F. Conlin. No. 1,348,152; Aug. 3; v. 277; p. 4.
Torpedo-planting device. F. H. Hutchinson. No. 1,330,322; Feb. 10; v. 271; p. 214.
Torpedo, Railway-. E. A. Schooley. No. 1,359,924; Nov. 23; v. 280; p. 683.
Torpedo, Railway signal-. E. C. Pfeil and H. O. Bemisderfer. No. 1,343,841; June 15; v. 275; p. 554.
Torpedo-shooting device. S. Rogozea. No. 1,336,656; Apr. 13; v. 273; p. 239.
Torpedo, Signaling-. W. T. McCullough. No. 1,337,240; Apr. 20; v. 273; p. 426.
Torpedo-trap. V. H. Masters and M. G. Shoop. No. 1,346,551; July 13; v. 276; p. 303.
Torpedoes, Bulkhead for. W. Dieter. No. 1,335,561; Mar. 30; v. 272; p. 857.
Torpedoes, Emergency launching system for. J. H. Hammond, Jr. No. 1,347,092; July 20; v. 276; p. 469.
Torpedoes, Gyroscopic steering mechanism of automobile. E. Lees. No. 1,328,571; Jan. 20; v. 270; p. 416.
Torpedoes, Horizontal steering-gear for. L. M. Aspinwall. No. 1,360,259; Nov. 30; v. 280; p. 818.
Torpedoes, Horizontal steering-gears for. K. A. Simmon. No. 1,360,325; Nov. 30; v. 280; p. 830.
Torpedoes, Lubricating means for the propelling mechanism of automobile. W. Dieter. No. 1,358,064; Nov. 9; v. 280; p. 227.
Torpedoes, Making. J. Scardone. No. 1,350,845; Aug. 24; v. 277; p. 699.
Torpedoes, Steering-gears for. L. M. Aspinwall. No. 1,360,258; Nov. 30; v. 280; p. 818.
Torpedoes, Vertical steering-gears for. G. M. Eaton. No. 1,360,276; Nov. 30; v. 280; p. 821.
Tote-box. A. H. Levene. No. 1,336,972; Apr. 13; v. 273; p. 300.
Tote-box, Metallic. C. Claus. No. 1,331,862; Feb. 24; v. 271; p. 593.
Tow-boats and their vessels, Combined steering and handling system for. T. R. Tarn. No. 1,327,643; Jan. 13; v. 270; p. 204.
Towboat, Screw-propelled chambered-stern. T. R. Tarn. No. 1,346,279; July 13; v. 276; p. 250.
Towed bodies, Cutter for use on. C. D. Burney. No. 1,358,359; Nov. 9; v. 280; p. 286.
Towed body. C. D. Burney. No. 1,358,360; Nov. 9; v. 280; p. 286.
Towel and antiseptic pad, Combined. T. B. Henry. No. 1,353,954; Sept. 28; v. 278; p. 578.
Towel Paper. A. Ek. No. 1,347,020; July 20; v. 276; p. 455.
Towel-rack. W. H. Bauck and L. R. Mote. No. 1,359,783; Nov. 23; v. 280; p. 656.
Towel-rack. B. G. Richards. No. 1,358,271; Sept. 21; v. 278; p. 399.
Towel-hanger. J. J. Shoemaker. No. 1,331,589; Feb. 24; v. 271; p. 540.
Tower construction. J. B. Held. No. 1,330,375; Feb. 10; v. 271; p. 224.
Tower, Drying-. W. L. McLaughlin. No. 1,359,188; Nov. 16; v. 280; p. 492.
Tower, Observation-. J. B. Strauss. No. 1,328,461; Jan. 20; v. 270; p. 394.
Tower, Water-cooling. C. F. Braun. No. 1,334,515; Mar. 23; v. 272; p. 600.
Towers, Base connection for steel. I. C. Bushong. No. 1,334,519; Mar. 23; v. 272; p. 601.
Tower, Cyaniding-. O. R. Comstock. No. 1,361,445; Dec. 7; v. 281; p. 94.
Tower-spirals, Machine for forming clay. B. M. Hood. No. 1,346,786; July 13; v. 276; p. 351.
Towing attachment. J. Egan. No. 1,332,388; Mar. 2; v. 272; p. 41.
Towing device. A. L. Blomquist. No. 1,349,556; Aug. 17; v. 277; p. 403.
Towing device. J. C. Swackhamer. No. 1,358,894; Nov. 16; v. 280; p. 438.
Toy. T. W. Adams and L. B. Stump. No. 1,357,212; Nov. 2; v. 280; p. 2.
Toy. M. D. Adler. No. 1,331,971; Feb. 24; v. 271; p. 613.
Toy. F. L. Babcock. No. 1,353,703; Sept. 21; v. 278; p. 486.
Toy. D. Bajusz. No. 1,330,511; Feb. 10; v. 271; p. 249.
Toy. H. C. Barger. No. 1,356,901; Oct. 26; v. 279; p. 621.
Toy. H. Barth. No. 1,329,575; Feb. 3; v. 271; p. 43.
Toy. G. G. Beilhon. No. 1,345,343; July 6; v. 276; p. 4.
Toy. E. P. Bodin. No. 1,340,109; May 11; v. 274; p. 349.
Toy. E. O. Bond. No. 1,355,752; Oct. 12; v. 279; p. 308.
Toy. D. H. Brook. No. 1,331,617; Feb. 24; v. 271; p. 546.
Toy. J. A. Burrias. No. 1,363,307; Dec. 28; v. 281; p. 398.
Toy. N. Chapdelaine. No. 1,335,425; Mar. 30; v. 272; p. 831.
Toy. G. F. Colbert. No. 1,334,016; Mar. 16; v. 272; p. 461.
Toy. F. M. Collins and J. H. Glenn. No. 1,339,165; May 4; v. 274; p. 95.
Toy. P. M. Condon. No. 1,328,719; Jan. 20; v. 270; p. 442.
Toy. G. Curry. No. 1,345,140; June 29; v. 275; p. 936.
Toy. A. Dayon. No. 1,354,361; Sept. 28; v. 278; p. 665.
Toy. A. V. De Costa. No. 1,337,758; Apr. 20; v. 273; p. 524.
Toy. F. L. Dorsk. No. 1,342,945; June 8; v. 275; p. 314.
Toy. F. L. Dorsk. (Reissue.) No. 14,995; Nov. 30; v. 280; p. 962.
Toy. C. W. Ebeling. No 1,336,556; Apr. 18; v. 278; p. 220.
Toy. V. E. Fermier. No. 1,332,822; Mar. 2; v. 272; p. 124.
Toy. E. C. Flatman. No. 1,353,900; Sept. 28; v. 278; p. 567.
Toy. J. P. Flippo. No. 1,335,571; Mar. 30; v. 272; p. 859.
Toy. G. R. Floyd. No. 1,357,159; Oct. 26; v. 279; p. 672.
Toy. J. F. Franke. No. 1,329,045; Jan. 27; v. 270; p. 534.
Toy. J. L. Friend. No. 1,348,860; Aug. 10; v. 277; p. 193.
Toy. K. B. Fuld. No. 1,329,338; Jan. 27; v. 270; p. 587.
Toy. K. B. Fuld. No. 1,331,339; Feb. 17; v. 271; p. 472.
Toy. K. B. Fuld. No. 1,333,613; Mar. 16; v. 272; p. 385.
Toy. F. Garrigue. No. 1,337,354; Apr. 20; v. 273; p. 447.
Toy. I. Grgic. No. 1,347,696; July 27; v. 276; p. 645.
Toy. F. H. Hall. No. 1,349,337; Aug. 10; v. 277; p. 287.
Toy. J. V. Hamilton, Jr. No. 1,334,241; Mar. 16; v. 272; p. 502.
Toy. S. Herzog. No. 1,338,449; Apr. 27; v. 273; p. 724.
Toy. O. P. Holloway. No. 1,332,253; Mar. 2; v. 272; p. 15.
Toy. D. L. Holwick. No. 1,354,749; Oct. 5; v. 279; p. 60.
Toy. R. E. Humbert. No 1,336,434; Apr 13; v. 273; p. 197.
Toy. C. H. Hyman. No. 1,348,421; Aug. 3; v. 277; p. 58.
Toy. C. H. Hyman. No. 1,348,422; Aug. 3; v. 277; p. 58.
Toy. C. H. Hyman. No. 1,348,423; Aug. 3; v. 277; p. 58.
Toy. P. V. Jermyn. No. 1,345,009; June 29; v. 275; p. 911.
Toy. J. Jancek. No. 1,334,954; Mar. 30; v. 272; p. 743.
Toy. F. Kangasniemi. No. 1,355,674; Oct. 12; v. 279; p. 293.
Toy. E. Karg. No. 1,359,809; Nov. 23; v. 280; p. 661.
Toy. G. J. Kierstead. No. 1,330,324; Feb. 10; v. 271; p. 214.

Digitized by Google

Toy. G. A. King. No. 1,340,394; May 18; v. 274; p. 460.
Toy. R. M. Kinnard. No. 1,347,384; July 20; v. 276; p. 526.
Toy. G. J. Koehl. No. 1,348,283; Aug. 3; v. 277; p. 30.
Toy. M. Lalonde. No. 1,337,661; Apr. 20; v. 273; p. 505.
Toy. O. A. Langos. No. 1,334,867; Mar. 23; v. 272; p. 668.
Toy. G. Lehmann. No. 1,350,103; Aug. 17; v. 277; p. 509.
Toy. I. Maisano. No. 1,356,647; Oct. 26; v. 279; p. 671.
Toy. I. Maisano. No. 1,358,768; Nov. 16; v. 280; p. 412.
Toy. I. Maisano. No. 1,359,817; Nov. 23; v. 280; p. 662.
Toy. I. Maisano. No. 1,360,659; Nov. 30; v. 280; p. 896.
Toy. I. Maisano. No. 1,360,660; Nov. 30; v. 280; p. 896.
Toy. J. Malik. No. 1,334,043; Mar. 16; v. 272; p. 466.
Toy. A. W. Manzie. No. 1,340,786; May 18; v. 274; p. 534
Toy. G. H. Marsden. No. 1,344,548; June 22; v. 275; p. 758.
Toy. C. A. Meurer. No. 1,329,623; Feb. 3; v. 271; p. 52.
Toy. D. D. Moore. No. 1,342,344; June 1; v. 275; p. 143.
Toy. S. A. Neederman. No. 1,345,328; June 29; v. 275; p. 973.
Toy. C. W. Oberreich. No. 1,336,374; Apr. 6; v. 273; p. 127.
Toy. J. I. Orkin. No. 1,360,676; Nov. 30; v. 280; p. 899.
Toy. E. E. Peavey. No. 1,330,000; Feb. 3; v. 271; p. 122.
Toy. A. Peden. No. 1,346,053; July 6; v. 276; p. 144.
Toy. P. Pierce. No. 1,329,062; Jan 27; v. 270; p. 537.
Toy. D. Rice. No. 1,331,941; Feb. 24; v. 271; p. 607.
Toy. M. L. J. Richard. No. 1,344,451; June 22; v. 275; p. 739.
Toy. B. G. Richards. No. 1,350,338; Aug. 24; v. 277; p. 600.
Toy. H. G. Runne. No. 1,352,836; Sept. 14; v. 278; p. 254.
Toy. C. S. Simmons. No. 1,337,570; Apr. 20; v. 273; p. 488.
Toy. A. M. Smolens. No. 1,328,344; Jan. 20; v. 270; p. 372.
Toy. J. J. Soulliard. No. 1,344,064; June 22; v. 275; p. 663.
Toy. J. Stanek. No. 1,334,818; Mar. 23; v. 272; p. 657.
Toy. M. O. Steen. No. 1,361,637; Dec. 7; v. 281; p. 132.
Toy. J. Straka. No. 1,351,450; Aug. 31; v. 277; p. 881.
Toy. E. W. Trautman. No. 1,351,075; Aug 31; v. 277; p. 806.
Toy. J. C. Turner. No. 1,356,324; Oct. 19; v. 279; p. 462.
Toy. W. W. White 3. W. No. 1,342,037; June 1; v. 275; p. 83.
Toy. J. Wietecha. No. 1,347,238; July 20; v. 276; p. 497.
Toy. M. Wild. No. 1,340,512; May 18; v. 274; p. 483.
Toy. W. R. Zimmerman. No. 1,359,778; Nov. 23; v. 280; p. 655.
Toy. I. Zion. No. 1,359,646; Nov. 23; v. 280; p. 628.
Toy-actuating air-motor. C. Halpern and F. W. Zeidler. No. 1,357,706; Nov. 2; v. 280; p. 95.
Toy, Aerial. R. H. Clifton. No. 1,356,969; Oct. 26; v. 279; p. 634.
Toy, Aerial. A. Craig. No. 1,331,418; Feb. 17; v. 271; p. 488.
Toy, Aerial. S. Hashimoto. No. 1,332,175; Feb. 24; v. 271; p. 650.
Toy aeroplane. A. Z. Baker. No. 1,352,343; Sept. 7; v. 278; p. 121.
Toy aeroplane. A. D. Converse. No. 1,353,147; Sept. 21; v. 278; p. 375.
Toy aeroplane. H. B. Dummer. No. 1,327,530; Jan. 6; v. 270; p. 121.
Toy aeroplane. P. T. W. Hale. No. 1,346,956; July 20; v. 276; p. 442.
Toy aeroplane. B. H. Harris. No. 1,342,998; June 8; v. 275; p. 325.
Toy aeroplane. E. J. and H. T. Kingsbury. No. 1,347,814; July 27; v. 276; p. 668.
Toy aeroplane. F. H. Lee. No. 1,359,078; Nov. 16; v. 280; p. 472.
Toy aeroplane. P. Pierce. No. 1,348,373; Aug. 3; v. 277; p. 48.
Toy aeroplane. A. F. Thurnau. No. 1,348,971; Aug. 10; v. 277; p. 215.
Toy aeroplane. A. E. Werner. No. 1,341,624; May 25; v. 274; p. 766.
Toy airplane. M. Palmer. No. 1,359,619; Nov. 23; v. 280; p. 623.
Toy airplane. P. O. Roth. No. 1,344,520; June 22; v. 275; p. 752.
Toy amusement device, Paper-. A. Hubner. No. 1,347,042; July 20; v. 276; p. 460.
Toy and educational device, Constructional. F. P. Franklin. No. 1,347,808; July 27; v. 276; p. 668.
Toy and game. R. Sato. No. 1,350,082; Aug. 17; v. 277; p. 505.
Toy and savings-bank, Combined. R. E. and N. Starkie. No. 1,338,879; May 4; v. 274; p. 42.
Toy and savings-bank or collecting-box, Combined. R. E. Starkie. No. 1,345,414; July 6; v. 276; p. 17.
Toy animal. J. Barnard. No. 1,353,707; Sept. 21; v. 278; p. 486.
Toy animal. J. Levine. No. 1,359,398; Nov. 16; v. 280; p. 534.
Toy animal-cage. J. A. Pittman. No. 1,330,654; Feb. 10; v. 271; p. 276.
Toy arrow-sling. L. E. Rising. No. 1,358,674; Nov. 9; v. 280; p. 349.
Toy, Automatic vehicle. B. Zsarnay. No. 1,351,147; Aug. 31; v. 277; p. 820.
Toy ball. T. M. Gregory. No. 1,356,817; Oct. 26; v. 279; p. 605.
Toy balloon. F. Pastor. No. 1,350,935; Aug. 24; v. 277; p. 716.
Toy balloons, Machine for forming rolls on. H. R. Gill. No. 1,346,706; July 13; v. 276; p. 334.
Toy band-wagon. C. H. Belknap. No. 1,341,102; May 25; v. 274; p. 666.
Toy battleship and tank-car, Convertible. W. E. McLaren. No. 1,350,417; Aug. 24; v. 277; p. 616.
Toy boat. H. T. and E. J. Kingsbury. No. 1,335,900; Apr. 6; v. 273; p. 37.
Toy boat. H. T. and E. J. Kingsbury. No. 1,340,614; May 18; v. 274; p. 502.
Toy book. M. Goodman. No. 1,346,017; July 6; v. 276; p. 136.
Toy bowler Andy crane, Mechanical. B. F. Bain. No. 1,355,636; Oct. 12; v. 279; p. 286.
Toy bowling-alley. A. E. Bond. No. 1,329,952; Feb. 3; v. 271; p. 114.
Toy bucket. E. Marsh. No. 1,352,463; Sept. 14; v. 278; p. 179.
Toy building and design block. C. F. Lorenzen. No. 1,337,664; Apr. 20; v. 273; p. 506.
Toy building, Block. O. W. Ward. No. 1,337,171; Apr. 13; v. 273; p. 338.
Toy building construction. A. C. Gilbert. No. 1,329,706; Feb. 3; v. 271; p. 67.
Toy-cabin construction. J. L. Wright. No. 1,351,086; Aug. 31; v. 277; p. 808.
Toy cannon. C. J. Emerson. No. 1,332,490; Mar. 2; v. 272; p. 60.
Toy cannon. W. S. Gardner. No. 1,333,405; Mar. 9; v. 272; p. 284.
Toy cannon. C. W. Minnich. No. 1,362,171; Dec. 14; v. 281; p. 284.
Toy cannon. W. L. Nicols. No. 1,352,681; Sept. 14; v. 278; p. 223.
Toy cannon. E. E. Sturk. No. 1,358,125; Nov. 9; v. 280; p. 239.
Toy cap-exploding device. A. O. Maulden. No. 1,333,810; Mar. 16; v. 272; p. 422.
Toy car. R. U. Bailey. No. 1,333,370; Mar. 9; v. 272; p. 278.
Toy car. O. M. Brauer. No. 1,328,557; Jan. 20; v. 270; p. 413.
Toy car, Manually-propelled. J. C. Brown. No. 1,339,433; May 11; v. 274; p. 221.
Toy centrifugal gun. J. H. Parsons. No. 1,356,466; Oct. 19; v. 279; p. 489.
Toy chair. F. Karschitz. No. 1,362,489; Dec. 14; v. 281; p. 346.
Toy chime. R. G. Reid. No. 1,335,855; Apr. 6; v. 273; p. 28.
Toy, Climbing. J. H. Burke, Sr. No. 1,332,601; Mar. 2; v. 272; p. 82.
Toy coaster. D. C. Ducatt. No. 1,334,441; Mar. 23; v. 272; p. 586.
Toy-constructing material. A. N. Hall. No. 1,336,626; Apr. 13; v. 273; p. 234.
Toy, Convertible. S. A. Brockway. No. 1,348,262; Aug. 3; v. 277; p. 26.
Toy, Dancing. J. Wisniefski. No. 1,334,578; Mar. 23; v. 272; p. 612.
Toy, Dancing-figure. F. Majewski. No. 1,338,944; May 4; v. 274; p. 54.
Toy device. I. Zion. No. 1,342,577; June 8; v. 275; p. 242.
Toy device. I. Zion. No. 1,348,921; Aug. 10; v. 277; p. 205.
Toy doll. W. Lenchard. No. 1,350,660; Aug. 24; v. 277; p. 664.
Toy dump-wagon. F. L. Lindstrom. No. 1,334,544; Mar. 23; v. 272; p. 606.
Toy, Educational. W. M. Barry. No. 1,351,608; Aug. 31; v. 277; p. 912.
Toy, Educational. A. L. Mackintosh. No. 1,349,776; Aug. 17; v. 277; p. 446.
Toy, Educational. A. McNab. No. 1,331,817; Feb. 24; v. 271; p. 584.
Toy, Educational. L. H. Plauché. No. 1,330,089; Feb. 10; v. 271; p. 171.
Toy, Educational. G. Taussig and C. Wagenfohr. No. 1,340,304; May 18; v. 274; p. 443.
Toy Ferris wheel. J. J. Fairbanks. No. 1,328,829; Jan. 27; v. 270; p. 492.
Toy fighting-tank. H. W. Huth. No. 1,334,539; Mar. 23; v. 272; p. 606.
Toy figure. A. B. Bradish. No. 1,355,799; Oct. 12; v. 279; p. 317.
Toy, Figure. S. Smigielski. No. 1,327,359; Jan. 6; v. 270; p. 89.
Toy figure. J. N. Whitehouse. No. 1,351,455; Aug. 31; v. 277; p. 882.

Digitized by Google

Alphabetical list of inventions—Continued.

Toy figure, Movable. M. Ryll. No. 1,334,939; Mar. 23; v. 272; p. 682.
Toy figure, Walking-. F. Criest. No. 1,329,959; Feb. 3; v. 271; p. 115.
Toy, Figured. C. D. McClellan and J. Flynn. No. 1,337,932; Apr. 20; v. 273; p. 557.
Toy firearm. C. L. Allen. No. 1,347,433; July 20; v. 276; p. 536.
Toy firearm. H. G. Lorentz. No. 1,348,285; Aug. 3; v. 277; p. 31.
Toy flying-machine. M. A. Doelckner. No. 1,328,134; Jan. 13; v. 270; p. 296.
Toy, Foldable parachute. C. U. Tyrrell. No. 1,359,207; Nov. 16; v. 280; p. 496.
Toy fort. H. E. Coates. No. 1,348,086; July 27; v. 276; p. 723.
Toy-furniture set. D. E. Howe. No. 1,328,921; Jan. 27; v. 270; p. 511.
Toy game apparatus. C. E. Jacobs. No. 1,357,778; Nov. 2; v. 280; p. 110.
Toy grasshopper. G. E. Ford. No. 1,362,248; Dec. 14; v. 281; p. 300.
Toy grenade. W. D. Kemp. No. 1,348,224; Aug. 3; v. 277; p. 19.
Toy gun. R. Baisch and O. Kreutz. No. 1,353,138; Sept. 21; v. 278; p. 373.
Toy gun. R. Jelinek. No. 1,332,551; Mar. 2; v. 272; p. 73.
Toy gun. R. B. Michalek. No. 1,338,458; Apr. 27; v. 273; p. 725.
Toy gun. O. Johnson. No 1,354,566; Oct 5; v. 279; p. 24.
Toy gun. R. M. Kliemant. No. 1,357,061; Oct. 26; v. 279; p. 653.
Toy gun. M. Schoen. No. 1,337,967; Apr. 20; v. 273; p. 564.
Toy gun. J. A. Talbot. No. 1,342,700; June 8; v. 275; p. 265.
Toy gun, Electrical. T. Hallinan. No. 1,343,127; June 8; v. 275; p. 351.
Toy gun or pistol. H. H. White. No. 1,329,734; Feb. 3; v. 271; p. 72
Toy, Hammer. J. Boryk. No. 1,333,242; Mar. 9; v. 272; p. 254.
Toy hammer. T. Smolinsky. No. 1,359,927; Nov. 23; v. 280; p. 684.
Toy horse, Mechanical. G. W. Walker. No. 1,337,300; Apr. 20; v. 273; p. 437.
Toy house. L. S. Hansen. No. 1,340,047; May 11; v. 274; p. 337.
Toy horse, Walking. A. H. Loomis. No. 1,337,479; Apr. 20; v. 273; p. 470.
Toy, Jumping. F. S. Neyd'hart. No. 1,329,201; Jan. 27; v. 270; p. 563.
Toy, Jumping-jack. C. Olson. No. 1,354,577; Oct. 5; v. 279; p. 26.
Toy, Jumping. A. Sandor. No. 1,347,663; July 27; v. 276; p. 638.
Toy, kindergarten appliance, &c. T. Mathews. No. 1,333,181; Mar. 9; v. 272; p. 242.
Toy knitting-machine. L. Morinsky and E. K. Madan. No. 1,331,118; Feb. 17; v. 271; p. 482.
Toy, Knocked down wheel. H. L. Beach. No. 1,356,333; Oct. 19; v. 279; p. 464.
Toy machine-gun. H. Abramowitz. No. 1,353,696; Sept. 21; v. 278; p. 484.
Toy machine-gun. W. O. McDaniel. No. 1,328,929; Jan. 27; v. 270; p. 512.
Toy, Machine-gun. T. G. Stough. No. 1,356,664; Oct. 26; v. 279; p. 575.
Toy, Mechanical. W. Danner. No. 1,361,449; Dec. 7; v. 281; p. 95.
Toy, Mechanical. V. S. Gaines. (Reissue.) No. 14,902; June 29; v. 275; p. 975.
Toy, Mechanical. J. H. Guttridge. No. 1,355,665; Oct. 12; v. 279; p. 291.
Toy, Mechanical. J. V. Irenius. No. 1,337,705; Apr. 20; v. 273; p. 514.
Toy, Mechanical. E. B. Morgan. No. 1,360,970; Nov. 30; v 280; p. 956.
Toy, Mechanical. W. F. Pautzke. No. 1,336,756; Apr. 13; v. 273; p. 259.
Toy, Mechanical. P. Wronowski. No. 1,348,386; Aug. 3; v. 277; p. 51.
Toy, Musical. L. L. Debs. No. 1,354,959; Oct. 5; v. 279; p. 102.
Toy, Musical. W. E. Goschke. No. 1,345,085; June 29; v. 275; p. 925.
Toy mold. A. R. Leland, R. B. Benjamin, and G. A. Sellar. No. 1,330,197; Feb. 10; v. 271; p. 191.
Toy, Noisy. J. Boryk. No. 1,349,259; Aug. 10; v. 277; p. 272.
Toy or display device. W. R. Williams. No. 1,327,415; Jan. 6; v. 270; p. 99.
Toy or game. A. L. Lilley. No. 1,340,278; May 18; v. 274; p. 438.
Toy, Phonograph centrifugal. F. Maier. No. 1,355,613; Oct. 12; v. 279; p. 282.
Toy, Phonograph friction. F. Maier. No. 1,355,612; Oct. 12; v. 279; p. 282.
Toy pin-board. W. Lenchard. No. 1,352,137; Sept. 7; v. 278; p. 82.
Toy pistol. A. F. Carlin. No. 1,346,938; July 20; v. 276; p. 439.
Toy pistol. G. J. Kierstead and W. F. Gehrig. No. 1,361,071; Dec. 7; v. 281; p. 18.
Toy pistol. H. M. Rice. No. 1,356,559; Oct. 26; v. 279; p. 554.
Toy pistol. M. B. Sultzer. No. 1,333,945; Mar. 16; v. 272; p. 447.
Toy pistol. M. A. Turtle. No. 1,340,190; May 18; v. 274; p. 422.
Toy plow. E. Krebs. No. 1,329,666; Feb. 3; v. 271; p. 60.
Toy popgun. Z. M. Midyett. No. 1,327,723; Jan. 13; v. 270; p. 219.
Toy railways, Train-control system for. W. C. Roe. No. 1,327,215; Jan. 6; v. 270; p. 68.
Toy rapid-fire gun. F. S. Jones. No. 1,360,410; Nov. 30; v. 280; p. 847.
Toy rattle. M. Patremio. No. 1,348,836; Aug. 3; v. 277; p. 135.
Toy, Revolving. L. Romaniello. No. 1,337,483; Apr. 20; v. 273; p. 471.
Toy rocker-carriage. F. Humphreville. No. 1,354,400; Sept. 28; v. 278; p. 669.
Toy, Rotary character. E. and M. E. Holbrook. No. 1,349,202; Aug. 10; v. 277; p. 260.
Toy, Runabout rattling. J. Kalamen. No. 1,361,386; Dec. 7; v. 281; p. 81.
Toy semaphore. E. A. Caziarc. No. 1,347,682; July 27; v. 276; p. 642.
Toy shooting-gallery. W. Lenchard. No. 1,355,765; Oct. 12; v. 279; p. 311.
Toy shooting-gallery. E. R. Vascoucellos. No. 1,361,119; Dec. 7; v. 281; p. 28.
Toy steam-shovel. C. F. Zipf. No. 1,351,981; Sept. 7; v. 278; p. 53.
Toy submarine. A. C. Gilbert. No. 1,344,632; June 29; v. 275; p. 839.
Toy submarine. A. C. Gilbert. No. 1,351,565; Aug. 31; v. 277; p. 904.
Toy submarine. R. E. Lundstrom. No. 1,356,377; Oct. 19; v. 279; p. 472.
Toy, Submarine. R. E. de Waele. No. 1,328,867; Jan. 27; v. 270; p. 500.
Toy submarine. W. O. Yancey. No. 1,361,561; Dec. 7; v. 281; p. 118.
Toy swing-chair and sulky. F. Karschitz. No. 1,343,000; June 8; v. 275; p. 325.
Toy swinging chair. C. L. Wecht. No. 1,346,620; July 13; v. 276; p. 317.
Toy switch. I. V. Goodman. No. 1,355,467; Oct. 12; v. 279; p. 254.
Toy tank, Automatic self-propelled. C. A. Lewis and H. E. Smock. No. 1,343,834; June 15; v. 275; p. 553.
Toy top, Spinning or. J. N. Cayo. No. 1,363,718; Dec. 28; v. 281; p. 677.
Toy tractor. E. J. Kingsbury. No. 1,350,026; Aug. 17; v. 277; p. 494.
Toy tractor-chain and link therefor. L. Strohacker. No. 1,353,861; Sept. 28; v. 278; p. 560.
Toy, Trundle. A. Asplet. No. 1,357,937; Nov. 9; v. 280; p. 201.
Toy, Trundling. E. C. Flatman. No. 1,355,459; Oct. 12; v. 279; p. 252.
Toy umbrella. E. L. Brown. No. 1,345,067; June 29; v. 275; p. 922.
Toy vehicle. M. E. Carr. No. 1,345,127; June 29; v. 275; p. 934.
Toy vehicle. H. W. Case. No. 1,333,292; Mar. 9; v. 272; p. 263.
Toy vehicle. C. G. Confer. No. 1,358,188; Nov. 9; v. 280; p. 251.
Toy vehicle. A. B. Foans. No. 1,362,407; Dec. 14; v. 281; p. 330.
Toy vehicle. J. G. Gaviak. No. 1,353,581; Sept. 21; v. 278; p. 461.
Toy vehicle. W. E. Gleeson. No. 1,350,492; Aug. 24; v. 277; p. 632.
Toy vehicle. P. H. Herrick. No. 1,349,509; Aug. 10; v. 277; p. 321.
Toy vehicle. C. W. Howard. No. 1,361,584; Dec. 7; v. 281; p. 122.
Toy vehicle. J. Kapfer. No. 1,330,269; Feb. 10; v. 271; p. 204.
Toy vehicle. A. C. Klenke. No. 1,345,092; June 29; v. 275; p. 927.
Toy vehicle. J. A. Lovington. No. 1,363,891; Dec. 28; v. 281; p. 710.
Toy vehicle. W. Moir. No. 1,350,232; Apr. 17; v. 277; p. 234.
Toy vehicle. A. R. Oelhafen. No. 1,330,951; Feb. 17; v. 271; p. 401.
Toy vehicle. J. W. Olsson. No. 1,348,577; Aug. 3; v. 277; p. 87.
Toy vehicle. H. G. Runne. No. 1,352,835; Sept. 14; v. 278; p. 254.
Toy vehicle. L. L. Whitaker. No. 1,359,302; Nov. 16; v. 280; p. 514.
Toy vehicle, Adjustable. M. D. Brock. No. 1,352,577; Sept. 14; v. 278; p. 202.
Toy vehicle, Equestrian. I. A. Burnett. No. 1,345,578; July 6; v. 276; p. 49.

Digitized by Google

Alphabetical list of inventions—Continued.

Toy vehicles, Spring-movement for. F. L. Lindstrom. No. 1,339,934; May 11; v. 274; p. 316.
Toy wagon. S. G. and B. C. Petterson. No. 1,328,760; Jan. 20; v. 270; p. 450.
Toy, Walking. J. A. Ekelund. No. 1,368,460; Dec. 28; v. 281; p. 626.
Toy, Walking. J. H. Shaw. No. 1,332,072; Feb. 24; v. 271; p. 631.
Toy, Walking. J. H. Shaw. No. 1,332,073; Feb. 24; v. 271; p. 632.
Toy, Wheeled. E. E. Detwiler. No. 1,362,086; Dec. 14; v. 281; p. 268.
Toy, Wheeled. C. H. Pajeau. No. 1,333,216; Mar. 9; v. 272; p. 249.
Toy, Wheeled. C. L. Wecht. No. 1,331,948; Feb. 24; v. 271; p. 608.
Toy, Wheeled. A. White. No. 1,362,769; Dec. 21; v. 281; p. 453.
Toy whistle. S. F. Kohn. No. 1,368,325; Dec. 28; v. 281; p. 602.
Toys, Device for impelling rotary. W. W. Sterling. No. 1,334,184; Mar. 16; v. 272; p. 491.
Toys or models, Element for use in building constructional. F. Hornby. No. 1,355,975; Oct. 19; v. 279; p. 392.
Trace-hook. F. Brown. No. 1,338,610; Apr. 27; v. 273; p. 753.
Tracer system of fire control. R. V. Morse. No. 1,355,841; Oct. 19; v. 279; p. 366.
Track, Adjustable roller-. F. C. Mairson. No. 1,358,170; Nov. 9; v. 280; p. 247.
Track-adjusting machine. J. Knutsen. No. 1,341,912; June 1; v. 275; p. 59.
Track and truck mechanism. L. E. Wray. No. 1,335,706; Mar. 30; v. 272; p. 884.
Track-belt unit. E. H. Savage. No. 1,330,955; Feb. 17; v. 271; p. 402.
Track-brace. J. F. Peterman. No. 1,361,901; Dec. 14; v. 281; p. 231.
Track, Chain-. R. Wishon. No. 1,331,550; Feb. 24; v. 271; p. 533.
Track construction. L. Forbes. No. 1,362,484; Dec. 14; v. 281; p. 345.
Track, Endless link-chain. A. V. Rackstraw. No. 1,331,080; Feb. 17; v. 271; p. 426.
Track-fastening and making same. E. C. Danner. No. 1,340,478; May 18; v. 274; p. 476.
Track gage and level. H. Matoba. No. 1,329,197; Jan. 27; v. 270; p. 562.
Track-gage retainer and adjuster. S. English. No. 1,363,100; Dec. 21; v. 281; p. 517.
Track instrument. W. B. Wells. No. 1,332,451; Mar. 2; v. 272; p. 53.
Track-laying machine. C. W. Burton. No. 1,354,533; Oct. 5; v. 279; p. 17.
Track-laying machine. H. Hall. No. 1,345,175; June 29; v. 275; p. 943.
Track-laying tractors. Track-wheel suspension for. E. H. Savage. No. 1,359,538; Nov. 23; v. 280; p. 607.
Track-laying wheel. O. G. Malsbary. No. 1,353,256; Sept. 21; v. 278; p. 396.
Track-level. H. Matoba. No. 1,329,196; Jan. 27; v. 270; p. 562.
Track lifter and liner. H. Kawashima. No. 1,329,185; Jan. 27; v. 270; p. 560.
Track-link. E. E. Wickersham. No. 1,336,876; Apr. 13; v. 273; p. 282.
Track, Link tread-. B. Holt. No. 1,327,556; Jan. 6; v. 270; p. 126.
Track-lubricator. B. Wolter and A. C. Brown. No. 1,334,065; Mar. 16; v. 272; p. 470.
Track, Metal road-. C. J. Linden. No. 1,350,872; Aug. 24; v. 277; p. 704.
Track-motor. L. J. Gotto. No. 1,359,359; Nov. 16; v. 280; p. 526.
Track, Overhead. B. S. Jordan. No. 1,328,528; Jan. 20; v. 270; p. 407.
Track, Overhead-carrier. P. M. Hassler and A. H. Neller. No. 1,345,851; July 6; v. 276; p. 102.
Track-sander. W. S. Griswold. No. 1,356,982; Oct. 26; v. 279; p. 637.
Track-signal. A. L. Currie. No. 1,361,308; Dec. 7; v 281; p. 65.
Track-signal. A. L. Currie. No. 1,361,309; Dec. 7; v. 281; p. 65.
Track-signal. F. L. Wanklyn. No. 1,355,871; Oct. 19; v. 279; p. 372.
Track, Steel. S. B. Dickinson. No. 1,328,790; Jan. 20; v. 270; p. 456.
Track-switch. J. Paige. No. 1,329,007; Jan. 27; v. 270; p. 527.
Track switch, Overhead-. A. H. Neller. No. 1,333,183; Mar. 9; v. 272; p. 243.
Track-terminal. S. English. No. 1,334,896; Mar. 23; v. 272; p. 673.
Tracking device. O. H. Arno. No. 1,340,360; May 18; v. 274; p. 454.
Tracking device. J. W. Barnes. No. 1,328,260; Jan. 20; v. 270; p. 356.
Tracking device. A. A. Page. No. 1,337,530; Apr. 20; v. 273; p. 481.
Tracking device, Adjustable. C. L. Emmons. No. 1,330,065; Feb. 10; v. 271; p. 166.
Traction and tread wheel. H. W. Wildman. No. 1,334,064; Mar. 16; v. 272; p. 469.
Traction attachment. C. F. Hall. No. 1,354,826; Oct. 5; v. 279; p. 76.
Traction-block. P. A. Solem. No. 1,327,296; Jan. 6; v. 270; p. 78.
Traction device. W. J. Chism. No. 1,343,658; June 15; v. 275; p. 517.
Traction-engine. C. J. Britt. No. 1,330,733; Feb. 10; v. 271; p. 291.
Traction-engine. E. M. Holmes. No. 1,348,877; Aug. 10; v. 277; p. 196.
Traction-engine. M. Stahl. No. 1,338,754; May 4; v. 274; p. 20.
Traction-engine. S. L. Timmons. No. 1,342,779; June 8; v. 275; p. 282.
Traction-engine. W. Turnbull. No. 1,344,360; June 22; v. 275; p. 720.
Traction-engine. E. E. Wickersham. No. 1,356,678; Oct. 26; v. 279; p. 578.
Traction-engine. E. E. Wickersham. No. 1,356,679; Oct. 26; v. 279; p. 578.
Traction gripping device. R. L. Carline. No. 1,348,697; Aug. 3; v. 277; p. 110.
Traction-increasing device. J. E. Ollivier. No. 1,352,683; Sept. 14; v. 278; p. 223.
Traction-lug. J. S. Hensel. No. 1,327,867; Jan. 13; v. 270; p. 246.
Traction-machine. W. Strait. No. 1,353,617; Sept. 21; v. 278; p. 468.
Traction system, Electric. U. Rouviere. No. 1,358,580; Nov. 9; v. 280; p. 330.
Traction-wheel. H. W. Adams. No. 1,338,055; Mar. 9; v. 272; p. 219.
Traction-wheel. A. R. Bruns. No. 1,354,723; Oct. 5; v. 279; p. 55.
Traction-wheel. E. C. Gaddini. No. 1,363,408; Dec. 21; v. 281; p. 615.
Traction-wheel. O. R. Hanson. No. 1,338,299; Apr. 27; v. 273; p. 696.
Traction-wheel. F. M. Heinig. No. 1,333,074; Mar. 9; v. 272; p. 223.
Traction-wheel. C. R. Hotchkiss. No. 1,361,331; Dec. 7; v. 281; p. 70.
Traction-wheel. L. J. Johnson. No. 1,341,466; May 15; v. 274; p. 737.
Traction-wheel. F. M. Koetz. No. 1,352,281; Sept. 7; v. 278; p. 109.
Traction-wheel. A. Rodine. No. 1,331,724; Feb. 24; v. 271; p. 566.
Traction-wheel. A. Scotti. No. 1,360,451; Nov. 30; v. 280; p. 855.
Tractor. H. W. Alden. No. 1,349,249; Aug. 10; v. 277; p. 270.
Tractor. C. J. Allen. No. 1,342,523; June 8; v. 275; p. 231.
Tractor. G. A. Armington. No. 1,342,412; June 8; v. 275; p. 209.
Tractor. S. G. Baits and S. I. Fekete. No. 1,342,934; June 8; v. 275; p. 312.
Tractor. J. E. Baster. No. 1,331,087; Feb. 17; v. 271; p. 427.
Tractor. J. E. Baster. No. 1,331,088; Feb. 17; v. 271; p. 427.
Tractor. F. E. Berry. No. 1,360,078; Nov. 23; v. 280; p. 714.
Tractor. W. L. Bodman. No. 1,342,791; June 8; v. 275; p. 284.
Tractor. W. Boulais. No. 1,340,112; May 11; v. 274; p. 350.
Tractor. J. M. Bowen. No. 1,343,308; June 15; v. 275; p. 447.
Tractor. W. M. Brewen and F. P. Foster. No. 1,331,141; Feb. 17; v. 271; p. 436.
Tractor. C. J. Britt. No. 1,341,537; May 25; v. 274; p. 750.
Tractor. G. Castella. No. 1,356,964; Oct. 26; v. 279; p. 633.
Tractor. F. F. Chandler and H. G. Myers. No. 1,361,964; Dec. 14; v. 281; p. 244.
Tractor. W. B. Chenoweth. No. 1,331,184; Feb. 17; v. 271; p. 444.
Tractor. W. Christie. No. 1,336,130; Apr. 6; v. 273; p. 81.
Tractor. W. Christie. No. 1,336,131; Apr. 6; v. 273; p. 81.
Tractor. W. Christie. No. 1,336,133; Apr. 6; v. 273; p. 81.
Tractor. W. Christie. (Reissue.) No. 14,868; June 1; v. 275; p. 156.
Tractor. A. D. Cole No 1,336,890; Apr. 13; v. 273; p. 285.
Tractor. T. B. Davis. No. 1,335,489; Mar. 30; v. 272; p. 843.
Tractor. P. Dessaules. No. 1,336,823; Apr. 13; v. 273; p. 272.
Tractor. J. W. Diederich. No. 1,342,427; June 8; v. 275; p. 212.
Tractor. L. C. Erbes. No. 1,332,977; Mar. 9; v. 272; p. 205.
Tractor. J. C. Fawver. No. 1,355,826; Oct. 19; v. 279; p. 363.

Digitized by Google

Alphabetical list of inventions—Continued.

Tractor. E. Flaiz. No. 1,346,644; July 13; v. 276; p. 322.
Tractor. J. D. Flory. (Reissue.) No. 14,801; Feb. 3; v. 271; p. 132.
Tractor. J. R. Fouch. No. 1,342,401; June 1; v. 275; p. 153.
Tractor. F. P. Franklin. No. 1,330,697; Feb. 10; v. 271; p. 284.
Tractor. F. A. Frogh. No. 1,347,502; July 27; v. 276; p. 606.
Tractor. H. and J. P. Garner and W. J. Parker. No. 1,348,558; Aug. 3; v. 277; p. 83.
Tractor. P. J. Gietsen. No. 1,345,166; June 29; v. 275; p. 941.
Tractor. J. Guth. No. 1,350,451; Aug. 24; v. 277; p. 624.
Tractor. R. B. Hartsough. No. 1,348,003; July 27; v. 276; p. 706.
Tractor. B. M. Hartsough. No. 1,358,730; Nov. 16; v. 280; p. 401.
Tractor. W. L. Hendricks. No. 1,338,919; May 4; v. 274; p. 50.
Tractor. R. P. Hicks. No. 1,341,851; June 1; v. 275; p. 47.
Tractor. E. M. Holmes. No. 1,338,418; Mar 9; v. 272; p. 287.
Tractor. P. E. Holt. No 1,336,961; Apr 13; v. 273; p. 298.
Tractor. H. House. No. 1,349,065; Aug. 10; v. 277; p. 233.
Tractor. J. M. Howe. No. 1,347,163; July 20; v. 276; p. 483.
Tractor. O. A. and W. T. Huckabee. No. 1,363,978; Dec. 28; v. 281; p. 727.
Tractor. V. Ivarson. No. 1,329,711; Feb. 3; v. 271; p. 68.
Tractor. J. Jessen. No. 1,340,169; May 18; v. 274; p. 418.
Tractor. L. Johnson. No. 1,348,720; Aug. 3; v. 277; p. 114.
Tractor. J. M. Johnson. No. 1,354,108; Sept. 28; v. 278; p. 611.
Tractor. C. F. Kilgore. No. 1,338,510; Apr. 27; v. 273; p. 735.
Tractor. N. A. Kennedy. No. 1,356,070; Oct. 19; v. 279; p. 411.
Tractor. C. Kinney. No. 1,341,181; May 25; v. 274; p. 681.
Tractor. C. Kinney. No. 1,360,957; Nov. 30; v. 280; p. 954.
Tractor. D. G. Knittel. No. 1,361,875; Dec 14; v. 281; p. 226.
Tractor. D. G. Knittel. No. 1,361,876; Dec. 14; v. 281; p. 226.
Tractor. C. Knott. No. 1,341,428; May 25; v. 274; p. 729.
Tractor. R. D. Kohne. No. 1,355,981; Oct. 19; v. 279; p. 393.
Tractor. L. Kring. No. 1,328,839; Jan. 27; v. 270; p. 494.
Tractor. C. H. Kugler. No. 1,343,783; June 15; v. 275; p. 543.
Tractor. J. L. Lake and F. D. McMahon. No. 1,338,835; May 4; v. 274; p. 34.
Tractor. E. E. Larson. No. 1,352,286; Sept. 7; v. 278; p. 110.
Tractor. H. Lindner. No. 1,354,618; Oct. 5; v. 279; p. 35.
Tractor. J. W. Livermore. No. 1,343,979; June 22; v. 275; p. 646.
Tractor. J. W. Livermore. No. 1,363,330; Dec. 28; v. 281; p. 602.
Tractor. H. W. Lupton. No. 1,327,485; Jan. 6; v. 270; p. 112.
Tractor. C. M. Marsh. No. 1,330,084; Feb. 10; v. 271; p. 170.
Tractor. A. C. Mason. No. 1,354,672; Oct. 5; v. 279; p. 45.
Tractor. N. and L. Nilson. No. 1,328,335; Jan. 20; v. 270; p. 371.
Tractor. J. F. M. Patitz. No. 1,344,209; June 22; v. 275; p. 690.
Tractor. C. H. Peck. No. 1,348,315; Aug. 3; v. 277; p. 37.
Tractor. O. L. Plettner and W. H. Lowe. No. 1,336,581; Apr. 13; v. 273; p. 225.
Tractor. A. D. Ray. No. 1,356,658; Oct. 26; v. 279; p. 574.
Tractor. J. Rilse. No. 1,355,501; Oct. 12; v. 279; p. 261.
Tractor. C. A. Rogers. No. 1,356,780; Oct. 26; v. 279; p. 599.
Tractor. A. Rundall. No. 1,335,461; Mar. 30; v. 272; p. 838.
Tractor. H. J. Sauvage. No. 1,346,915; July 20; v. 276; p. 434.
Tractor. A. E. Schaaf and S. W. Mills. No. 1,342,764; June 8; v. 275; p. 278.
Tractor. A. E. Schaaf and S. W. Mills. No. 1,342,765; June 8; v. 275; p. 279.
Tractor. H. F. Schmidt. No. 1,356,743; Oct. 26; v. 279; p. 590.
Tractor. H. F. Schmidt. No. 1,356,744; Oct. 26; v. 279; p. 590.
Tractor. H. L. Sherman. No. 1,357,528; Nov. 2; v. 280; p. 62.
Tractor. W. E. Simons. No. 1,335,614; Mar. 30, v. 272; p. 867.
Tractor. J. H. Sissel. No. 1,346,771; July 13; v. 276; p. 347.
Tractor. W. J. Stake. No. 1,333,512; Mar. 9; v. 272; p. 305.
Tractor. M. E. Stockwell. No. 1,347,468; July 20; v. 276; p. 543.
Tractor. C. E. Taylor. No. 1,356,497; Oct. 19; v. 279; p. 495.
Tractor. M. J. Trumble. No. 1,359,294; Nov. 16; v. 280; p. 513.
Tractor. H. W. Truscott. No. 1,340,306; May 18; v. 274; p. 443.
Tractor. W. Van Inman. No. 1,359,296; Nov. 16; v. 280; p. 513.
Tractor. W. S. Weaver. No. 1,334,475; Mar. 23; v. 272; p. 592.
Tractor. A. B. Webb. No. 1,348,192; Aug. 3; v. 277; p. 11.
Tractor. C. J. White. No. 1,349,930; Aug. 17; v. 277; p. 475.
Tractor. R. H. White. (Reissue.) No. 14,938; Aug. 24; v. 277; p. 733.
Tractor. A. E. Wilshusen. No. 1,362,520; Dec. 14; v. 281; p. 352.
Tractor. J. Zimarik. No. 1,341,098; May 25; v. 274; p. 665.
Tractor, Adjustable spring-. G. W. Hawley. No. 1,363,114; Dec. 21; v. 281; p. 520.
Tractor, Agricultural. B. A. J. Chapron. No. 1,351,942; Sept. 7; v. 278; p. 46.
Tractor and repeller, Combination. P. C. Juhl. No. 1,337,841; Apr. 20; v. 273; p. 539.
Tractor attachment. G. H. Glenn. No. 1,362,861; Dec. 21; v. 281; p. 471.
Tractor attachment. A. M. Grey. No. 1,333,171; Mar. 9; v. 272; p. 241.
Tractor attachment. H. J. Helmers. No. 1,354,232; Sept. 28; v. 278; p. 640.
Tractor attachment. A. M. Porter. No. 1,361,742; Dec. 7; v. 281; p. 153.
Tractor attachment. M. Rhine. No. 1,358,329; Nov. 9; v. 280; p. 279.
Tractor attachment. F. Ruppert. No. 1,363,756; Dec. 28; v. 281; p. 664.
Tractor, Auto-. G. L. Schofield. No. 1,356,473; Oct. 19; v. 279; p. 490.
Tractor, Auto-. G. L. Schofield. No. 1,356,474; Oct. 19; v. 279; p. 491.
Tractor, Auto-driven. G. H. Scully. No. 1,348,324; Aug. 3; v. 277; p. 38.
Tractor, Automotive. G. L. Schofield. No. 1,356,475; Oct. 19; v. 279; p. 491.
Tractor-chain. C. L. Best. No. 1,356,953; Oct. 26; v 279; p. 632.
Tractor comprising a driving and steering wheel. C. M. Motte. No. 1,338,837; May 4; v. 274; p. 34.
Tractor construction. J. Rilse. No. 1,355,502; Oct. 12; v. 279; p. 261.
Tractor control. M. Holczer. No. 1,335,237; Mar. 30; v. 272; p. 796.
Tractor-control mechanism. R. P. Hicks. No. 1,355,336; Oct. 12; v. 279; p. 229.
Tractor, Convertible cultivator-. E. B. McCartney. No. 1,345,498; July 6; v. 276; p. 34.
Tractor-coupling. L. H. Hart. No. 1,362,863; Dec. 21; v. 281; p. 471.
Tractor-coupling. J. F. Wingert, Jr. No. 1,342,011; June 1; v. 275; p. 78.
Tractor device, Caterpillar-. A. C. Menningen. No. 1,331,869; Feb. 24; v. 271; p. 594.
Tractor, Dirigible. W. P. Allen. No. 1,340,514; May 18; v. 274; p. 483.
Tractor draw-bar. J. Lauer, Jr. No. 1,337,521; Apr. 20; v. 273; p. 479.
Tractor-draw-bar attachment. J. P. Seitz. No. 1,340,504; May 18; v. 274; p. 481.
Tractor driving mechanism. A. H. Baird. No. 1,330,298; Feb. 10; v. 271; p. 209.
Tractor, Endless-tread. J. Barletta. No. 1,364,020; Dec. 28; v. 281; p. 735.
Tractor-engine, Air. A. B. Roney. No. 1,330,346; Feb. 10; v. 271; p. 219.
Tractor, Farm-. J. E. Meyer. No. 1,343,464; June 15; v. 275; p. 479.
Tractor, Farm-. P. Riseborough. No. 1,341,480; May 25; v. 274; p. 740.
Tractor, Farm-. T. E. Stark. No. 1,347,526; July 27; v. 276; p. 611.
Tractor, Farm-. D. C. Weyand. No. 1,334,201; Mar. 16; v. 272; p. 494.
Tractor for farm implements. W. N. Springer. No. 1,355,178; Oct. 12; v. 279; p. 198.
Tractor, Four-wheel-drive. D. S. Stewart. No. 1,332,579; Mar. 2; v. 272; p. 78.
Tractor-frame. W. D. Prentice. No. 1,354,128; Sept. 28; v. 278; p. 615.
Tractor frame and carriage. O. A. and W. T. Huckabee. No. 1,363,977; Dec. 28; v. 281; p. 727.
Tractor-frame suspension. W. Turnbull. No. 1,344,363; June 22; v. 275; p. 721.

Digitized by Google

Tractor, Garden-. P. B. Ford. No. 1,353,156; Sept. 21; v. 278; p. 377.
Tractor, Heavy motor-. R. Bernat. No. 1,347,244; July 20; v. 276; p. 498.
Tractor-hitch. C. J. Hall. No. 1,341,170; May 25; v. 274; p. 679.
Tractor-hitch. J. K. Miller. No. 1,361,166; Dec. 7; v. 281; p. 36.
Tractor implement, Combination. A. G. and A. Ronning. No. 1,340,461; May 18; v. 274; p. 473.
Tractor-lug. N. Anderson. No. 1,333,866; Mar. 9; v. 272; p. 277.
Tractor-machine. A. R. Blewett. No. 1,353,945; Sept. 28; v. 278; p. 576.
Tractor, Motor-. W. Guthrie. No. 1,335,732; Apr. 6; v. 273; p. 5.
Tractor, Motor-. E. A. Leymarie. No. 1,335,249; Mar. 30; v. 272; p. 798.
Tractor, Motor. T. F. McCallister. No. 1,339,271; May 4; v. 274; p. 114.
Tractor, Pioneer. G. R. Atkins. No. 1,354,714; Oct. 5; v. 279; p. 54.
Tractor-plow. A. W. Reynolds. No. 1,363,755; Dec. 28; v. 281; p. 684.
Tractor propulsion mechanism. R. D. Kohne. No. 1,362,802; Dec. 21; v. 281; p. 460.
Tractor pusher attachment. P. A. Records. No. 1,350,838; Aug. 24; v. 277; p. 698.
Tractor-shoe-dirt eliminator. E. Erik. No. 1,346,186; July 13; v. 276; p. 231.
Tractor-steering control for plowing. W. A. Jackson. No. 1,349,342; Aug. 10; v. 277; p. 288.
Tractor steering mechanism. N. Ware. No. 1,334,421; Mar. 23; v. 272; p. 583.
Tractor, Track-laying. A. B. Cox. No. 1,355,540; Oct. 12; v. 279; p. 268.
Tractor, Track-laying. R. H. White. No. 1,338,060; Apr. 27; v. 273; p. 651.
Tractor, Traction-belt. C. M. Fuller. No. 1,330,253; Feb. 10; v. 271; p. 201.
Tractor transmission mechanism. F. Moon. No. 1,351,485; Aug. 31; v. 277; p. 888.
Tractor-tread link. G. E. Sibbett. No. 1,338,402; Apr. 27; v. 273; p. 713.
Tractor turning mechanism. W. B. Chenoweth. No. 1,331,185; Feb. 17; v. 271; p. 444.
Tractor unit. G. S. Groves. No. 1,337,905; Apr. 20; v. 273; p. 552.
Tractor, Walking. E. R. Honeywell. No. 1,351,752; Sept. 7; v. 278; p. 7.
Tractor-wheel. E. L. Demorest. No. 1,336,074; Apr. 6; v. 273; p. 70.
Tractor-wheel. W. Enright. No. 1,363,461; Dec 28; v. 281; p. 627.
Tractor-wheel. C. H. Furche. No. 1,357,395; Nov. 2; v. 280; p. 37.
Tractor-wheel. J. Grefe. No. 1,363,317; Dec. 28; v. 281; p. 600.
Tractor-wheel. N. Peterson. No. 1,353,068; Sept. 14; v. 278; p. 300.
Tractor-wheel. C. A. Slocum. No. 1,338,105; Apr. 27; v. 273; p. 659.
Tractor-wheel. E. Snider. No. 1,336,791; Apr. 13; v. 273; p. 266.
Tractor-wheel. W. S. Stothoff and C. A. Psilander. No. 1,352,635; Sept. 14; v. 278; p. 214.
Tractor-wheel. H. Vass. No. 1,346,145; July 13; v. 276; p. 223.
Tractor-wheel. F. W. Whitaker. No. 1,348,070; July 27; v. 276; p. 720.
Tractor-wheel. P. R. Zieche. No. 1,342,493; June 8; v. 275; p. 225.
Tractor-wheels, Subsoil working means for. H. A. Cook. No. 1,362,527; Dec. 14; v. 281; p. 354.
Tractors, Adjustable draft-rigging for. A. L. Cooper. No. 1,360,502; Nov. 30; v. 280; p. 866.
Tractors and other vehicles, Steering means for. R. Tinker. No. 1,353,192; Sept. 21; v. 278; p. 384.
Tractors, Clutch control for. B. A. Spinney. No. 1,341,222; May 25; v. 274; p. 689.
Tractors, Device for extracting. T. F. Bella. No. 1,363,634; Dec. 28; v. 281; p. 660.
Tractors, Draft appliance for. T. B. Funk. (Reissue.) No. 14,985; Nov. 16; v. 280; p. 551.
Tractors, Draft attachment for. W. Gaida. No. 1,356,705; Oct. 26; v. 279; p. 583.
Tractors, Draft-controlling attachment for. A. L. Bloom and E. W. Carlson. No. 1,360,263; Nov. 30; v. 280; p. 819.
Tractors, Draft-rigging for. D. W. Evans. No. 1,347,448; July 20; v. 276; p. 539.
Tractors, Driving-gearing for. H. A. Harrah. No. 1,352,125; Sept. 7; v. 278; p. 79.
Tractors, Driving-sprocket for. M. B. Morgan. No. 1,357,719; Nov. 2; v. 280; p. 98.
Tractors, Extensible control for. M. F. Bates. No. 1,359,564; Nov. 23; v. 280; p. 612.
Tractors, Footrest for. F. R. Danielson. No. 1,355,895; Oct. 19; v. 279; p. 377.
Tractors, Hitch for. G. Sloan. No. 1,332,524; Mar. 2; v. 272; p. 68.
Tractors, Hitch for two-wheel. J. D. Flory. No. 1,350,962; Aug. 24; v. 277; p. 721.
Tractors, Hydraulic control for. J. W. Mowbray. No. 1,358,974; Nov. 16; v. 280; p. 453.
Tractors, Implement attachment for. I. C. Lindley. No. 1,330,198; Feb. 10; v. 271; p. 191.
Tractors, Line control for steering mechanism of. A. V. Rowe. No. 1,355,851; Oct. 19; v. 279; p. 368.
Tractors, Lubrication for. L. W. Melcher. No. 1,334,547; Mar. 23; v. 272; p. 606.
Tractors, Multiple-seeder attachment for garden-. C. W. Genung. No. 1,348,862; Aug. 10; v. 277; p. 193.
Tractors, Multiple-wheel drive for. L. J. Davies. No. 1,350,071; Aug. 17; v. 277; p. 503.
Tractors, Operating attachments for. J. Repking. No. 1,358,874; Nov. 16; v. 280; p. 434.
Tractors or trucks, Steering mechanism for motor-driven. S. K. Prescott. No. 1,359,739; Nov. 23; v. 280; p. 647.
Tractors, Pilot for caterpillar-type. J. H. Thompson. No. 1,331,403; Feb. 17; v. 271; p. 485.
Tractors, Propelling attachment for. H. A. Seltenright. No. 1,354,219; Sept. 28; v. 278; p. 633.
Tractors, Steering and control mechanism for. G. R. Nichols, Jr. No. 1,353,606; Sept. 21; v. 278; p. 466.
Tractors, Steering attachment for. R. S. Farnsworth. No. 1,354,036; Sept. 28; v. 278; p. 595.
Tractors, Steering attachment for. F. M. Hurni. No. 1,341,426; May 25; v. 274; p. 729.
Tractors, Steering mechanism for. J. B. Bartholomew. No. 1,328,808; Jan. 27; v. 270; p. 488.
Tractors, Steering mechanism for. E. E. Wickersham. No. 1,356,680; Oct. 26; v. 279; p. 578.
Tractors, Track-leveler attachment for. O. A. Thomas. No. 1,332,643; Mar. 2; v. 272; p. 90.
Tractors, Track-support for chain-track. W. Turnbull. No. 1,336,871.; Apr. 13; v. 273; p. 281.
Tractors, Track-wheel suspension for track-laying. M. B. Morgan. No. 1,337,787; Apr. 20; v. 273; p. 529.
Tractors, Traction-chain for caterpillar-. F. A. Putnam and O. C. Reyoum. No. 1,341,761; June 1; v. 275; p. 29.
Tractors, Traction driving and steering mechanism for track-laying. C. E. Foote. No. 1,356,615; Oct. 26; v. 279; p. 565.
Tractors, Traction-frame for construction for track-laying. R. H. White. No. 1,338,059; Apr. 27; v. 273; p. 651.
Tractors, Transmission mechanism for. H. Ford. No. 1,347,690; July 27; v. 276; p. 644.
Tractors, Upsetting-preventing and hitching attachment for. G. D. Goss. No. 1,356,139; Oct. 19; v. 279; p. 425.
Traffic-controlling apparatus, Railway-. L. F. Howard. No. 1,341,982; June 1; v. 275; p. 72.
Traffic-post. P. Hannagan. No. 1,341,318; May 25; v. 274; p. 707.
Traffic-signal. D. W. Gore. No. 1,354,249; Sept. 28; v. 278; p. 639.
Traffic-signal. F. J. Husbands. No. 1,335,240; Mar. 30; v. 272; p. 797.
Traffic-signal. L. A. Lawhead. No. 1,351,857; Sept. 7; v. 278; p. 29.
Traffic-signal. D. J. Linehan. No. 1,338,028; Apr. 27; v. 273; p. 645.
Traffic-signal. L. F. Maire. No. 1,331,574; Feb. 24; v. 271; p. 537.
Traffic-signal. F. E. Mors and J. A. Burt. No. 1,334,628; Mar. 23; v. 272; p. 621.
Traffic-signal. J. R. Naylor. No. 1,328,097; Jan. 13; v. 270; p. 289.
Traffic-signal. H. R. Saxon. No. 1,350,469; Aug. 24; v. 277; p. 627.
Traffic-signal. E. A. Scott. No. 1,363,537; Dec. 28; v. 281; p. 642.
Traffic-signal, Automobile. S. Masumoto. No. 1,348,367; Aug. 3; v. 277; p. 47.
Traffic-signal device. F. B. Crosby. No. 1,363,497; Dec. 28; v. 281; p. 634.
Trailer. F. B. Allen. No. 1,338,546; Apr. 27; v. 273; p. 742.
Trailer. C. De Mattia. No. 1,354,175; Sept. 28; v. 278; p. 624.
Trailer. L. B. Doe. No. 1,331,421; Feb. 17; v. 271; p. 488.
Trailer. A. Feigelson. No. 1,351,102; Aug. 31; v. 277; p. 811.
Trailer. H. L. Thurmond. No. 1,330,289; Feb. 10; v. 271; p. 207.
Trailer. S. B. Winn. No. 1,346,927; July 20; v. 276; p. 437.
Trailer connection. I. E. Litten. No. 1,356,076; Oct. 19; v. 279; p. 412.
Trailer-coupling. A. W. Corwin. No. 1,351,098; Aug. 31; v. 275; p. 810.
Trailer for camping purposes. W. J. Hannam. No. 1,336,627; Apr. 13; v. 273; p. 234.
Trailers, Combination end-gate and step for. A. P. Fix. No. 1,340,761; May 18; v. 274; p. 529.
Trailers, Fifth-wheel and turning-bolster for. O. H. Hesse. No. 1,330,805; Feb. 17; v. 271; p. 372.
Trailers, gun-carriages, and other apparatus, Removable bogie for. E. Schneider. No. 1,340,416; May 18; v. 274; p. 465.
Trailers, gun-carriages, and other apparatus, Removable bogie for. E. Schneider. No. 1,340,417; May 18; v. 274; p. 465.

Digitized by Google

Alphabetical list of inventions—Continued.

Trailers, gun-carriages, and other apparatus, Removable bogie for. E. Schneider. No. 1,340,418; May 18; v. 274; p. 465.
Trailers, Removable bogie for. E. Schneider. No. 1,340,414; May 18; v. 274; p. 464.
Trailers to tractors, Device for coupling. F. T. Falco. No. 1,342,949; June 8; v. 275; p. 315.
Trailing device, Automatic. C. L. Sloan. No. 1,331,854; Feb. 24; v. 271; p. 591.
Train and like control system. A. Kerr. No. 1,363,514; Dec. 28; v. 281; p. 638.
Train classification and number indicator. W. H. Lowd. No. 1,354,437; Sept. 28; v. 278; p. 677.
Train-control apparatus. W. H. Johnson. No. 1,362,104; Dec. 14; v. 281; p. 271.
Train-control apparatus. T. W. Scott. No. 1,361,410; Dec. 7; v. 281; p. 86.
Train-control apparatus, Automatic. A. J. Brookins. No. 1,339,918; May 11; v. 274; p. 313.
Train control, Automatic. G. W. Sell. No. 1,331,886; Feb. 17; v. 271; p. 481.
Train-control system. W. B. Murray. No. 1,337,255; Apr. 20; v. 273; p. 429.
Train-control system. W. W. Macfarlane. No. 1,363,525; Dec. 28; v. 281; p. 640.
Train-control system. H. Rowntree. No. 1,347,523; July 27; v. 276; p. 610.
Train-control system. A. G. Williamson and S. V. Huber. No. 1,351,822; Sept. 7; v. 278; p. 22.
Train-control system, Automatic. L. E. Dodge. No. 1,361,694; Dec. 7; v. 281; p. 144.
Train-control system, Automatic. W. K. Howe. No. 1,360,219; Nov. 23; v. 280; p. 741.
Train-control system, Automatic. W. K. Howe. No. 1,360,749; Nov. 30; v. 280; p. 914.
Train-control system, Automatic. S. D. Rodgers. No. 1,359,839; Nov. 23; v. 280; p. 666.
Train controlling and stopping mechanism, Automatic. F. C. Williams. No. 1,345,816; July 6; v. 276; p. 96.
Train-controlling apparatus. S. Renovich. No. 1,333,678; Mar. 16; v. 272; p. 397.
Train-controlling apparatus. D. H. Schweyer. No. 1,342,873; June 8; v. 275; p. 300.
Train-controlling device, Automatic. H. W. Richards and V. P. Ford. No. 1,330,007; Feb. 3; v. 271; p. 123.
Train-controlling means. J. H. McQuillen. No. 1,351,182; Aug. 31; v. 277; p. 827.
Train-controlling system. B. A. Prince and E. I. La Count. No. 1,336,484; Apr. 13; v. 273; p. 207.
Train-controlling system. B. A. Prince and E. I. La Count. No. 1,342,572; June 8; v. 275; p. 241.
Train-coupling. J. B. Holland. No. 1,348,947; Aug. 10; v. 277; p. 210.
Train-gate, Automatic. G. C. Ivanhoe. No. 1,330,035; Feb. 3; v. 271; p. 128.
Train-line connection. A. L. Barringer. No. 1,361,666; Dec. 7; v. 281; p. 138.
Train-order delivery. F. A. Metz. No. 1,333,485; Mar. 9; v. 272; p. 290.
Train-order-delivery mechanism. G. E. Luntsford. No. 1,333,723; Mar. 16; v. 272; p. 406.
Train-order holder. D. R. Crady. No. 1,360,370; Nov. 30; v. 280; p. 838.
Train-order hoop. F. E. Coffeen. No. 1,363,494; Dec. 28; v. 281; p. 634.
Train-order reel. J. F. A. Ault. No. 1,332,790; Mar. 2; v. 272; p. 118.
Train-pipe connector, Automatic. D. B. McTaggart. No. 1,331,939; Feb. 24; v. 271; p. 606.
Train-pipe connector, Automatic. J. V. Robinson. (Reissue.) No. 14,873; June 1; v. 275; p. 156.
Train-pipe couplings, Gasket for. E. H. Gold. No. 1,350,074; Aug. 17; v. 277; p. 503.
Train-pipe disconnector. F. E. Longo. No. 1,330,983; Feb. 17; v. 271; p. 408.
Train-reporting mechanism, Electric. R. C. Leake. No. 1,355,054; Oct. 5; v. 279; p. 120.
Train, Road-. E. Rimailho. No. 1,346,723; July 13; v. 276; p. 337.
Train-signal. A. Capitan. No. 1,331,318; Feb. 17; v. 271; p. 468.
Train-signal. E. G. Kellam. No. 1,341,179; May 25; v. 274; p. 681.
Train-signaling and train-control system. C. H. Woodward. No. 1,328,865; Jan. 27; v. 270; p. 500.
Train speed-control device, Automatic. T. H. Thomas. No. 1,355,189; Oct. 12; v. 279; p. 200.
Train-stop. H. B. Spencer, T. Short, and N. Derocher. No. 1,359,122; Nov. 16; v. 280; p. 480.
Train-stop. N. Stramaglia. No. 1,353,084; Sept. 14; v. 278; p. 303.
Train-stop and speed-control device, Automatic. A. E. Smith. No. 1,356,318; Oct. 19; v. 279; p. 461.
Train-stop, Automatic. C. E. Anderson. No. 1,335,149; Mar. 30; v. 272; p. 781.
Train-stop, Automatic. T. T. Chaloner. No. 1,361,014; Dec. 7; v. 281; p. 7.
Train-stop, Automatic. E. M. Hewson, Jr. No. 1,329,709; Feb. 3; v. 271; p. 68.
Train-stop, Automatic. F. J. McAvoy. No. 1,340,068; May 11; v. 274; p. 341.
Train-stop, Automatic. A. L. Newman. No. 1,349,525; Aug. 10; v. 277; p. 324.
Train-stop, Automatic. L. Seese. No. 1,356,833; Oct. 26; v. 279; p. 608.
Train-stop, Automatic. M. Taylor. No. 1,349,172; Aug. 10; v. 277; p. 254.
Train-stop, Automatic. R. Waller. No. 1,343,857; June 15; v. 275; p. 558.
Train-stop, Automatic. W. E. Walsh. No. 1,329,258; Jan. 27; v. 270; p. 574.
Train-stop, Automatic. J. L. Wolf. No. 1,330,671; Feb. 10; v. 271; p. 279.
Train-stop mechanism. J. McManus. No. 1,356,382; Oct. 19; v. 279; p. 473.
Train-stop mechanism, Automatic or safety. F. A. Diodato. No. 1,345,753; July 6; v. 276; p. 83.
Train-stop mechanism, Safety. J. W. Bingley. No. 1,349,489; Aug. 10; v. 277; p. 317.
Train-stop system. E. C. Stafford. No. 1,327,176; Jan. 6; v. 270; p. 55.
Train-stopping apparatus. H. Hickman. No. 1,332,837; Mar. 2; v. 272; p. 126.
Train-stopping apparatus, Automatic. F. Handschuh. No. 1,361,253; Dec. 7; v. 281; p. 54.
Train-stopping mechanism, Emergency. B. Gwatkin, V. E. Randall, and W. E. White. No. 1,355,329; Oct. 12; v. 279; p. 227.
Train-stopping means, Automatic. F. Lyle. No. 1,332,733; Mar. 2; v. 272; p. 107.
Train-stopping mechanism, Automatic. A. A. Evans. No. 1,349,504; Aug. 10; v. 277; p. 320.
Train-stops, Contact-shoe for. M. B. Bulla. No. 1,335,275; Mar. 30; v. 272; p. 803.
Trains, Automatic mechanism for stopping. S. P. Johnson. No. 1,345,599; July 6; v. 276; p. 54.
Trains, Device for automatically announcing orders and dangers to moving. F. R. Elizondo. No. 1,347,538; July 27; v. 276; p. 613.
Trains, Means for automatically controlling. C. W. Ward. No. 1,362,376; Dec. 14; v. 281; p. 325.
Trains or cars, Device for stopping. H. J. Derby. No. 1,347,996; July 27; v. 276; p. 705.
Trainman's kit. G. B. Jackson. No. 1,341,559; May 25; v. 274; p. 755.
Tramcars and the like for indicating stations or stopping-places, Indicator for. C. W. Mallins. No. 1,330,887; Feb. 17; v. 271; p. 388.
Trammel-point. H. V. Souders. No. 1,352,320; Sept. 7; v. 278; p. 117.
Tramper. A. S. Ross. No. 1,332,576; Mar. 2; v. 272; p. 77.
Tramways, Trolley for electric. G. Odierno. No. 1,354,060; Sept. 28; v. 278; p. 601.
Transfer mechanism. W. Travell. No. 1,333,947; Mar. 16; v. 272; p. 447.
Transfer mechanism. W. Travell. No. 1,333,948; Mar. 16; v. 272; p. 447.
Transfer-punching machine. G. W. Ferrell. No. 1,363,102; Dec. 21; v. 281; p. 517.
Transferring device. C. F. Pflanze. No. 1,345,950; July 6; v. 276; p. 123.
Transformer. F. F. Brand. No. 1,331,896; Feb. 24; v. 271; p. 599.
Transformer. S. E. Johannesen. No. 1,331,068; Feb. 17; v. 271; p. 424.
Transformer. J. F. Peters. No. 1,351,061; Aug. 31; v. 277; p. 804.
Transformer. V. Bush. No. 1,342,250; June 1; v. 275; p. 125.
Transformer. C. H. Thordarson. No. 1,338,884; May 4; v. 274; p. 43.
Transformer-coil. W. N. Furthmann. No. 1,359,589; Nov. 23; v. 280; p. 617.
Transformer for use with rotary converters. J. F. Peters. No. 1,347,910; July 27; v. 276; p. 688.
Transformer, High-voltage. S. E. Johannesen. (Reissue.) No. 14,891; June 22; v. 275; p. 771.
Transformer, Magneto-electric. P. Rabbidge. No. 1,341,340; May 25; v. 274; p. 712.
Transformer-mounting. C. H. Thordarson. No. 1,335,803; Apr. 6; v. 273; p. 19.
Transformer, Rotary. T. F. Barton. No. 1,343,026; June 8; v. 275; p. 330.
Transformer, Testing-. E. P. Lee. No. 1,330,271; Feb. 10; v. 271; p. 204.
Transformers, Insulating and cooling means for. A. Lindström. No. 1,334,041; Mar. 16; v. 272; p. 466.
Transformers, Impedance-equalizer for use with. R. S. Hoyt. No. 1,333,111; Mar. 9; v. 272; p. 230.
Transformers or other electrical apparatus, Insulating and protecting. F. A. Vaughn. No. 1,333,004; Mar. 9; v. 272; p. 210.
Transit, Illuminated. D. W. Brunton. No. 1,339,019; May 4; v. 274; p. 68.
Transmission. H. M. Armistead. No. 1,341,162; May 25; v. 274; p. 678.
Transmission. H. B. Garman. No. 1,348,166; Aug. 3; v. 277; p. 6.
Transmission. F. V. Johnson. No. 1,338,777; May 4; v. 274; p. 24.
Transmission and change-speed mechanism. C. D. Pruitt. No. 1,362,507; Dec. 14; v. 281; p. 350.
Transmission and clutch housings, Assembly of differential. B. C. Zuhars and H. D. Clarke. No. 1,360,857; Nov. 30; v. 280; p. 935.

Digitized by Google

Transmission apparatus. J. H. Bernath and E. C. Reynolds. No. 1,361,300; Dec. 7; v. 281; p. 68.
Transmission-band lining. L. L. Libby. No. 1,357,103; Oct. 26; v. 279; p. 661.
Transmission-band lining. L. L. Libby. No. 1,362,495; Dec. 14; v. 281; p. 348.
Transmission-case. G. H. Padgett. No. 1,351,680; Aug. 31; v. 277; p. 926.
Transmission-cases, Device for holding bolts of. R. Libenschek. No. 1,337,084; Apr. 13; v. 273; p. 322.
Transmission, Combined differential and clutch. P. M. Myers. No. 1,336,532; Apr. 13; v. 273; p. 216.
Transmission-drum clamp. G. D. Lawson. No. 1,359,815; Nov. 23; v. 280; p. 662.
Transmission-equalization arrangement. A. U. Harper. No. 1,357,979; Nov. 9; v. 280; p. 210.
Transmission, Fluid wave. G. Constantinesco. No. 1,334,286; Mar. 23; v. 272; p. 557.
Transmission, Liquid wave. G. Constantinesco. No. 1,334,288; Mar. 23; v. 272; p. 557.
Transmission, Liquid wave. G. Constantinesco. No. 1,334,289; Mar. 23; v. 272; p. 558.
Transmission-lock. E. H. Baxter. No. 1,355,380; Oct. 12; v. 279; p. 237.
Transmission-lock. H. S. Currier. No. 1,328,724; Jan. 20; v. 270; p. 443.
Transmission-lock. G. C. Jensen. No. 1,332,902; Mar. 9; v. 272; p. 190.
Transmission-lock. H. Whitt. No. 1,352,489; Sept. 14; v. 278; p. 184.
Transmission machine, Selective speed-. A Stewart. No. 1,328,062; Jan. 13; v. 270; p. 282.
Transmission mechanism. E. T. Couse. No. 1,356,601; Oct. 26; v. 279; p. 562.
Transmission mechanism. T. Douglas. No. 1,334,486; Mar. 23; v. 272; p. 595.
Transmission mechanism. J. J. Duffy. No. 1,342,587; June 8; v. 275; p. 244.
Transmission mechanism. C. A. Grotz. No. 1,353,390; Sept. 21; v. 278; p. 422.
Transmission mechanism. H. T. Herr. No. 1,346,888; July 20; v. 276; p. 429.
Transmission mechanism. I. Hupp. No. 1,338,303; Apr. 27; v. 273; p. 696.
Transmission mechanism. C. E. Johnson. No. 1,363,044; Dec. 21; v. 281; p. 506.
Transmission mechanism. R. Keck. No. 1,362,490; Dec. 14; v. 281; p. 347.
Transmission mechanism. S. Loe. No. 1,349,074; Aug. 10; v. 277; p. 235.
Transmission mechanism. C. M. Marshall. No. 1,351,393; Aug. 31; v. 277; p. 870.
Transmission mechanism. H. N. Moore. (Reissue.) No. 14,952; Sept. 28; v. 278; p. 681.
Transmission mechanism. E. F. Norelius. No. 1,356,734; Oct. 26; v. 279; p. 589.
Transmission mechanism. R. Stahl. No. 1,355,516; Oct. 12; v. 279; p. 264.
Transmission mechanism. H. H. Thompson. No. 1,358,895; Nov. 16; v. 280; p. 438.
Transmission mechanism and casing. U. L. Barnes. No. 1,331,139; Feb. 17; v. 271; p. 436.
Transmission mechanism. Automatic. A. Hupp. No. 1,358,447; Nov. 9; v. 280; p. 304.
Transmission mechanism, Double-gear-. E. E. Wickersham. No. 1,344,366; June 22; v. 275; p. 722.
Transmission of intelligence by wire, Apparatus for electrical. J. A. Tillinghast. No. 1,353,000; Sept. 14; v. 278; p. 287.
Transmission of intelligence, Electrical. C. D. Ehret. No. 1,352,589; Sept. 14; v. 278; p. 205.
Transmission of intelligence, System for the. R. A. Heising. (Reissue.) No. 14,967; Oct. 26; v. 279; p. 682.
Transmission of power at varying speeds, Rotary mechanism for. W. Hunt. No. 1,360,216; Nov. 23; v. 280; p. 741.
Transmission-poles, Wishbone cross-arm construction for. L. M. Klauber. No. 1,359,509; Nov. 23; v. 280; p. 601.
Transmission system, Four-wire. G. A. Campbell. No. 1,352,786; Sept. 14; v. 278; p. 244.
Transmission, System of differential magnetic. D. C. Henry. No. 1,333,415; Mar. 9; v. 272; p. 286.
Transmission systems, Means for compensating for leakage in wave-. G. Constantinesco. No. 1,334,287; Mar. 23; v. 272; p. 557.
Transmitter. W. G. Houskeeper. No. 1,328,996; Jan. 27; v. 270; p. 525.
Transmitter. T. R. Purman. No. 1,332,951; Mar. 9; v. 272; p. 200.
Transmitter-support. W. T. Booth. No. 1,362,597; Dec. 21; v. 281; p. 419.
Transmitter-support. F. D. Waldron. No. 1,329,031; Jan. 27; v. 270; p. 531.
Transplanting-machine. R. L. Puckett. No. 1,333,339; Mar. 9; v. 272; p. 272.
Transportation apparatus, Overhead. R. C. Riddick. No. 1,355,911; Oct. 19; v. 279; p. 380.
Transport, Landing-. W. A. Ross. No. 1,333,447; Mar. 9; v. 272; p. 292.
Transportation apparatus. L. W. Chism. No. 1,336,551; Apr. 13; v. 273; p. 220.
Transportation system. J. Conlon. No. 1,342,531; June 8; v. 275; p. 282.
Transporting and elevating apparatus. C. Mascart. No 1,345,454; July 6; v. 276; p. 25.
Transporting means. C. M. Calatayud and A. Lodken. No. 1,329,956; Feb. 3; v. 271; p. 114.
Transom-operators, Valve for compressed-air. F. H. Hardon. No. 1,361,381; Dec. 7; v. 281; p. 80.
Trap: *See*—
Animal-trap.
Backwater-trap.
Bathtub-trap.
Bird-trap.
Boll-weevil trap.
Cabinet-trap.
Cage-trap.
Drain-trap.
Drainage-trap.
Fish-trap.
Flytrap.
Game-trap.
Gopher-trap.
Gun-trap.
Insect-trap.
Jaw-trap.
Manometer-tube trap.
Mousetrap.
Multiple trap.
Non-siphoning trap.
Radiator steam-trap.
Rat-trap.
Rat and mouse trap.
Rodent-trap.
Safety-trap.
Sand-trap.
Sewer-trap.
Shooting-trap.
Snail and slug trap.
Spring-trap.
Steam-trap.
Target-trap.
Torpedo-trap.
Vacuum and return steam-trap.
Vermin-trap.
Waste-trap.
Trap. C. P. Beisel. No. 1,335,359; Mar. 30; v. 272; p. 820.
Trap. N. P. Capehart. No. 1,340,372; May 18; v. 274; p. 456.
Trap. H. B. Corsaw. No. 1,330,622; Feb. 10; v. 271; p. 270.
Trap. F. H. Crago. No. 1,342,425; June 8; v. 275; p. 212.
Trap. A. Enos. No. 1,342,328; June 1; v. 275; p. 139.
Trap. W. M. Fulton. No. 1,337,064; Apr. 13; v. 273; p. 319.
Trap. W. A. Gibbs. No. 1,333,016; Mar. 9; v. 272; p. 212.
Trap. W. A. Gibbs. No. 1,333,017; Mar. 9; v. 272; p. 212.
Trap. J. H. Greer. No. 1,343,502; June 15; v. 275; p. 486.
Trap. J. H. Hall. No. 1,349,453; Aug. 10; v. 277; p. 310.
Trap. F. G. Hirst. No. 1,338,079; Apr. 27; v. 273; p. 654.
Trap. H. W. Justus. No. 1,355,746; Oct. 12; v. 279; p. 307.
Trap. J. Manning, Sr. No. 1,356,775; Oct. 26; v. 279; p. 596.
Trap. J. V. McCaughan. No. 1,329,128; Jan. 27; v. 270; p. 550.
Trap. N. S. Nelson and A. Boode. No. 1,337,149; Apr. 13; v. 273; p. 334.
Trap. J. Peavy. No. 1,330,338; Feb. 10; v. 271; p. 317.
Trap. C. J. Roy. No. 1,332,360; Mar. 2; v. 272; p. 36.
Trap. M. M. Shields. No. 1,349,801; May 18; v. 274; p. 537.
Trap. M. Sichmeller. No. 1,360,038; Nov. 23; v. 280; p. 706.
Trap. J. W. Stevenson. No. 1,347,130; July 20; v. 276; p. 476.
Trap. T. H. Tabor. No. 1,334,418; Mar. 23; v. 278; p. 582.
Trap-setting device. I. Files. No. 1,338,141; Nov. 9; v. 280; p. 242.
Trash and sod chopper or cutter. L. L. Buebush. No. 1,341,825; June 1; v. 275; p. 42.
Trash-can. A. E. Josephson. No. 1,363,122; Dec. 21; v. 281; p. 521.
Trash-receptacle. W. Sachs. No. 1,338,400; Apr. 27; v. 273; p. 715.
Trash-turner. J. Miller. No. 1,343,059; June 8; v. 275; p. 337.
Traveling-bag. W. B. Smith. No. 1,359,202; Nov. 16; v. 280; p. 595.
Traveling-bag lock. H. B. Fultz. No. 1,359,982; Nov. 23; v. 280; p. 695.
Traversing motions, Reversible. H. A. J. de B. Nachemius. No. 1,350,560; Aug. 24; v. 277; p. 645.
Tray. L. Myers. No. 1,345,949; July 6; v. 276; p. 128.
Tray. C. E. Roy. No. 1,353,273; Sept. 21; v. 278; p. 399.
Tray and pipe-cleaner, Combined ash-. W. Aisenstein. No. 1,356,586; Oct. 26; v. 279; p. 559.
Tray, Ash-. J. P. Griffin. No. 1,342,805; June 8; v. 275; p. 287.
Tray, Ash-. A. E. Leibner. No. 1,355,750; Oct. 12; v. 279; p. 308.
Tray, Ash-. A. Leyden. No. 1,356,638; Oct. 26; v. 279; p. 569.
Tray, Ash-. J. W. Willingham. No. 1,348,676; Aug. 3; v. 277; p. 106.
Tray, Bed-. W. B. Mason and L. S. Ryan. No. 1,343,636; June 15; v. 275; p. 513.
Tray, Binder-. F. J. Hruska. No. 1,358,853; Nov. 16; v. 280; p. 429.
Tray, Dental. T. H. Ragatz. No. 1,360,146; Nov. 23; v. 280; p. 728.

Digitized by Google

Alphabetical list of inventions—Continued.

Tray, Dental impression-. T. F. Littlejohn. No. 1,351,108; Aug. 31; v. 277; p. 812.
Tray, Drier-. C. E. Johnson. No. 1,349,458; Aug. 10; v. 277; p. 311.
Tray, Egg-. A. V. Demmitt. No. 1,382,110; Feb. 24; v. 271; p. 639.
Tray-elevator. S. Olson. No. 1,351,215; Aug. 31; v. 277; p. 834.
Tray, Food-. M. G. Chess. No. 1,351,285; Aug. 31; v. 277; p. 848.
Tray, High-chair. C. J. Snideman. No. 1,361,504; Dec. 7; v. 281; p. 106.
Tray, High-chair. C. J. Snideman. No. 1,361,505; Dec. 7; v. 281; p. 106.
Tray mechanism. M. M. Hammond. No. 1,351,209; Aug. 31; v. 277; p. 832.
Tray or basket, Dish-holding. W. J. Lynch. No. 1,341,717; June 1; v. 275; p. 20.
Tray, Pen-. A. Jutila. No. 1,380,470; Feb. 10; v. 271; p. 242.
Tray-piling machine. K. Sanwo. No. 1,342,463; June 8; v. 275; p. 219.
Tray, Posting-. L. B. Halverson. No. 1,347,253; July 20; v. 276; p. 429.
Tray-turner. G. L. Anderson. No. 1,344,932; June 29; v. 275; p. 897.
Tray-turner. A. Soderberg. No. 1,342,774; June 8; v. 275; p. 280.
Tread. P. W. Dalrymple. No. 1,347,253; July 20; v. 276; p. 501.
Tread, Safety-. J. W. Scott and T. H. Greer. No. 1,338,332; Apr. 27; v. 273; p. 702.
Tread structure, Safety. A. W. Herbert. No. 1,328,875; Jan. 27; v. 270; p. 502.
Treadle mechanism. C. F. Stacey. No. 1,348,188; Aug. 3; v. 277; p. 11.
Treadle-switch, Current-regulating. A. Papini. No. 1,335,016; Mar. 30; v. 272; p. 755.
Treadmill. L. M. Pratt. No. 1,330,091; Feb. 10; v. 271; p. 171.
Treadmill, Motor-. R. D. George. No. 1,358,842; Nov. 16; v. 280; p. 427.
Treating material, Apparatus for. C. R. Mabee. No. 1,329,786; Feb. 3; v. 271; p. 82.
Treating material, Process and apparatus of. J. E. Clark. No. 1,363,280; Dec. 28; v. 281; p. 583.
Treatment of substances chronometrically, Device for regulating. W. E. Curtis. No. 1,355,817; Oct. 19; v. 279; p. 361.
Treatment-table. F. Koenigkramer. No. 1,329,611; Feb. 3; v. 271; p. 50.
Treatment-table. J. V. McManis. No. 1,351,482; Aug. 31; v. 277; p. 887.
Tree: *See*—
Boot-tree. Clothes-tree.
Christmas tree. Shoe-tree.
Tree-felling, Circular cutter for. J. M. Pioche. No. 1,334,633; Mar. 23; v. 272; p. 622.
Tree-holder. W. W. Ferguson. No. 1,333,480; Mar. 9; v. 272; p. 299.
Tree-protector. P. A. Libby. No. 1,353,404; Sept. 21; v. 278; p. 425.
Tree-protecting apparatus. O. V. Honstedt. No. 1,351,249; Aug. 31; v. 277; p. 840.
Tree-protector band. E. G. Perl. No. 1,345,690; July 6; v. 276; p. 71.
Tree-shaker. L. M. Fleckner. No. 1,337,898; Apr. 20; v. 273; p. 456.
Tree trimming and harvesting machine. G. A. Russell. No. 1,354,267; Sept. 28; v. 278; p. 643.
Trees, Destroying scale on citrus. H. Blumenberg. No. 1,337,538; Apr. 20; v. 273; p. 482.
Trees, Method of and apparatus for sawing. H. C. Hanson and M. B. Sawyer. No. 1,342,213; June 1; v. 275; p. 118.
Trellis. G. T Parr. No. 1,336,580; Apr. 13; v. 273; p. 225.
Tremie. T. C. Lutz. No. 1,363,665; Dec. 28; v. 281; p. 666.
Trench-digging machine. R. Barton. No. 1,369,781; Nov. 23; v. 280; p. 655.
Trenching-machine. H. J. Bentson. No. 1,327,418; Jan. 6; v. 270; p. 100.
Trenching-machine. H. J. Bentson. No. 1,349,936; Aug. 17; v. 277; p. 476.
Trenching-machine. J. J. Hammen. No. 1,343,081; June 8; v. 275; p. 341.
Trestle, Adjustable. J. M. Champlin. No. 1,329,290; Jan. 27; v. 270; p. 579.
Trestle-joint. E. B. Giles. No. 1,352,188; Sept. 7; v. 278; p. 91.
Trestle, Reinforced-concrete. H. P. Hamlin. No. 1,341,270; May 25; v. 274; p. 698.
Trial set. L. W. Bugbee. No. 1,361,824; Dec. 14; v. 281; p. 215.
Trichlorethylene from tetrachlorethane, Preparation of. A. Guyot. No. 1,343,716; June 15; v. 275; p. 529.
Tricycle and rocking-horse, Combined. F. G. Winnek. No. 1,338,545; Apr. 27; v. 273; p. 741.
Trigger mechanism and safety device therefor. E. E. Miller. No. 1,356,779; Oct. 26; v. 279; p. 597.
Trim and jamb fastener. W. K. Ketteringham, Jr. No. 1,348,721; Aug. 3; v. 277; p. 114.
Trimmer: *See*—
Book-trimmer. Lawn-edge trimmer.
Edge-trimmer. Pie-edge trimmer.
Hair-trimmer. Selvage-trimmer.
Horn and hoof trimmer. Shear-trimmer.
Lawn-trimmer. Wood-trimmer.
Trimming and finishing mechanism. H. Reynolds. No. 1,353,668; Sept. 21; v. 278; p. 479.
Trimming device. T. W. Morris. No. 1,361,531; Dec. 7; v. 281; p. 112.
Trimming-machine. J. A. Butler. No. 1,339,807; May 11; v. 274; p. 292.
Trimming-machine. J. Fausse. No. 1,350,305; Aug. 24; v. 277; p. 594.
Trimming-machine. T. Lund. No. 1,328,581; Jan. 20; v. 270; p. 408.
Trimming-machine. C. D. Mattison. No. 1,334,044; Mar. 16; v. 272; p. 466.
Trimming-machine. H. D. Stevens. No. 1,347,976; July 27; v. 276; p. 701.
Trimming-machines, Brush device for. W. J. Steere. No. 1,348,247; Aug. 3; v. 277; p. 24.
Trimming or planing machine, Surface. T. J. Dempsey. No. 1,339,172; May 4; v. 274; p. 97.
Trimming the ends of articles, Machine for. H. J. Wheeler. No. 1,346,288; July 13; v. 276; p. 252.
Trip-hook. R. P. Small. No. 1,333,511; Mar. 9; v. 272; p. 304.
Trip mechanism, Automatic time-controlled. J. B. Rodger. No. 1,329,020; Jan. 27; v. 270; p. 529.
Tripod-adapter. R. Kroedel. No. 1,357,639; Nov. 2; v. 280; p. 83.
Tripod-support. F. M. Lewis. No. 1,351,390; Aug. 31; v. 277; p. 869.
Tripping device. J. Estep. No. 1,331,428; Feb. 17; v. 271; p. 488.
Tripping mechanism. W. A. Atwood. No. 1,331,086; Feb. 17; v. 271; p. 427.
Trocar. W. B. Wescott. No. 1,333,745; Mar. 16; v. 272; p. 410.
Trocar. W. B. Wescott. No. 1,348,194; Aug. 3; v. 277; p. 12.
Trolley. C. Aalborg. No. 1,334,948; Mar. 30; v. 272; p. 741.
Trolley. E. S. Combs. No. 1,336,199; Apr. 6; v. 273; p. 94.
Trolley. B. F. Fitch. No. 1,350,648; Aug. 24; v. 277; p. 662.
Trolley. G. W. Hamilton. No. 1,359,503; Nov. 23; v. 280; p. 600.
Trolley. W. A. Louden. No. 1,343,631; June 15; v. 275; p. 512.
Trolley. J. Pivarnik. No 1,368,995; Dec 28; v. 281; p. 731.
Trolley. T. S. Puharud. No. 1,352,474; Sept. 14; v. 278; p. 182.
Trolley. H. J. Spoden and J. B. Welsh. No. 1,343,592; June 15; v. 275; p. 504.
Trolley. A. R. Westerdahl. No. 1,355,023; Oct. 5; v. 279; p. 114.
Trolley-arms, Locking device for derailed-. C. E. and P. Pigache. No. 1,339,221; May 4; v. 274; p. 106.
Trolley, Bacon-smoking. A. N. Benn. No. 1,360,871; Nov. 30; v. 280; p. 938.
Trolley, Barber's-appliance. L. H. Oldenburg. No. 1,362,580; Dec. 14; v. 281; p. 364.
Trolley-clamp. J. T. Morgan. No. 1,360,006; Nov. 23; v. 280; p. 700.
Trolley control. M. Shukites, Jr. No. 1,350,243; Aug. 17; v. 277; p. 536.
Trolley-finder. W. F. Yancey. No. 1,347,239; July 20; v. 276; p. 497.
Trolley-finder, Safety. H. B. Sawyer. No. 1,341,284; May 25; v. 274; p. 701.
Trolley-guard. T. L. Morton and J. E. Irwin. No. 1,355,561; Oct. 12; v. 279; p. 272.
Trolley-guard. N. B. Templer. No. 1,360,817; Nov. 30; v. 280; p. 927.
Trolley-guide box and shield. G. W. Bolden. No. 1,341,878; June 1; v. 275; p. 52.
Trolley-hanger, Insulated. G. H. Belus. No. 1,364,028; Dec. 28; v. 281; p. 737.
Trolley-hanger. R. T. Todhunter, H. A. Duke, and A. Woods. No. 1,342,034; June 1; v. 275; p. 82.
Trolley-hangers, Attaching device for. J. A. Neely. No. 1,343,930; June 22; v. 275; p. 637.
Trolley-harp. J. Czechowicz. No. 1,356,045; Oct. 19; v. 279; p. 406.
Trolley-harp extension. W. F. Freeman. No. 1,357,630; Nov. 2; v. 280; p. 81.
Trolley-harp fastener. E. C. Dietrich and C. W. Bliss. No. 1,356,606; Oct. 26; v. 279; p. 563.
Trolley-head. L. Sabo. No. 1,338,193; Apr. 27; v. 273; p. 676.
Trolley mechanism. A. W. Ham. No. 1,358,439; Nov. 9; v. 280; p. 302.
Trolley mechanism. A. W. Ham. No. 1,358,440; Nov. 9; v. 280; p. 303.
Trolley, Pantograph-. W. Schaake. No. 1,354,134; Sept. 28; v. 278; p. 616.

Digitized by Google

Trolley-pole. J. J. Reggio. No. 1,358,574; Nov. 9; v. 280; p. 329.
Trolley-pole arrester. H. B. Spikes. No. 1,362,197; Dec. 14; v. 281; p. 290.
Trolley-pole head. W. Champlin. No. 1,334,226; Mar. 16; v. 272; p. 499.
Trolley-pole head. S. S. Cooper. No. 1,353,381; Sept. 21; v. 278; p. 420.
Trolley-retriever. J. Kozak. No. 1,336,966; Apr. 13; v. 273; p. 209.
Trolley-retriever. E. A. Morris. No. 1,353,262; Sept. 21; v. 278; p. 397.
Trolley-switch. J. J. Ruddick. No. 1,336,485; Apr 13; v. 273; p. 207.
Trolley system. J. Basil and F. Girardi. No. 1,342,579; June 8; v. 275; p. 242.
Trolley system. O. A. Colby. No. 1,333,607; Mar. 16; v. 272; p. 383.
Trolley-tender. R. G. Averill. No. 1,353,507; Sept. 21; v. 278; p. 445.
Trolley-tender. R. G. Averill. No. 1,353,508; Sept. 21; v. 278; p. 445.
Trolley trackways, Switch for overhead-. A. S. Remsberg. No. 1,355,618; Oct. 12; v. 279; p. 283.
Trolley-wheel. J. F. Burns. No. 1,362,390; Dec. 14; v. 281; p. 327.
Trolley-wheel. W. R. Fearn. No. 1,332,891; Mar. 9; v. 272; p. 18.
Trolley-wheel. E. Heydon. No. 1,358,205; Nov. 9; v. 280; p. 254.
Trolley-wheel. J. Lefkowitz. No. 1,332,130; Feb. 24; v. 271; p. 642.
Trolley-wheel. J. E. Sederholm. No. 1,355,575; Oct. 12; v. 279; p. 275.
Trolley-wheel. C. P. Skublin. No. 1,334,564; Mar. 23; v. 272; p. 610.
Trolley-wheel. C. P. Skublin. No. 1,349,230; Aug. 10; v. 277; p. 266.
Trolley-wheel adjuster. R. C. McKiliget. No. 1,358,645; Nov. 9; v. 280; p. 342.
Trolley wheel and harp. J. N. Duncan. No. 1,330,177; Feb. 10; v. 271; p. 187.
Trolley-wheel guard. S. Kuczynski. No. 1,357,642; Nov. 2; v. 280; p. 83.
Trolley-wire and guard-hanger, Combined. T. W. Twyman. No. 1,352,105; Sept. 7; v. 278; p. 76.
Trolley-wire clamp. G. H. Bolus. No. 1,364,026; Dec. 28; v. 281; p. 736.
Trolley-wire clamp. G. H. Bolus. No. 1,364,027; Dec. 28; v. 281; p. 736.
Trolley-wire clamp. S. S. Matthes. No. 1,355,614; Oct. 12; v. 279; p. 282.
Trolley-wire guard. E. A. Croston and K. Chrobak. No. 1,356,603; Oct. 26; v. 279; p. 563.
Trolley-wire support. W. W. Hunzicker. No. 1,355,605; Oct. 12; v. 279; p. 280.
Trombone. W. D. Ackley. No. 1,330,831; Feb. 17; v. 271; p. 377.
Trommel-spokes, Protector for. F. Smarch. No. 1,351,699; Aug. 31; v. 277; p. 929.
Trough: *See*—
Automatic hog-watering trough.
Feeding-trough.
Paper-feed trough.
Eaves-trough.
Trough. C. Schmidt. No. 1,328,207; Jan. 13; v. 270; p. 310.
Trough and producing same. A. J. Luedke. No. 1,349,841; Aug. 17; v. 277; p. 458.
Trough, Automatic feed-. R. C. Force. No. 1,331,008; Feb. 17; v. 271; p. 412.
Trough, Dustless chalk-. W. G. Hill. No. 1,331,767; Feb. 24; v. 271; p. 574.
Trough for live stock, Watering-. E. T. Evison. No. 1,329,516; Feb. 3; v. 271; p. 88.
Trough, Watering-. L. W. Wyman. No. 1,330,995; Feb. 17; v. 271; p. 410.
Trousers. H. H. Entz. No. 1,359,973; Nov. 23; v. 280; p. 693.
Trousers, Apparatus for pressing. C. A. Norden. No. 1,335,013; Mar. 30; v. 272; p. 755.
Trousers, Appliance for men's. J. B. Koehne. No. 1,340,276; May 18; v. 274; p. 437.
Trousers, Clasp-suspender for. W. P. Hill and A. B. Smith. No. 1,333,075; Mar. 9; v. 272; p. 223.
Trousers, Extension-. M. Oppenheimer. No. 1,331,520; Feb. 24; v. 271; p. 527.
Trousers hanger and presser. D. G. Sell. No. 1,356,093; Oct. 19; v. 279; p. 416.
Trousers-presser. T. A. Kriegel. No. 1,356,724; Oct. 26; v. 279; p. 587.
Trousers-protector. E. E. M. Bullowa. No. 1,341,733; June 1; v. 275; p. 24.
Trousers-stretcher. H. Bretscher. No. 1,362,839; Dec. 21; v. 281; p. 467.
Trousers-support. H. G. Ainsworth. No. 1,335,927; Apr. 6; v. 273; p. 42.
Trousers-support. F. E. Fitzgerald. No. 1,345,917; July 6; v. 276; p. 116.
Trousers-supporter. E. W. League. No. 1,331,654; Feb. 24; v. 271; p. 553.
Trousers-supporter. M. A. Piper. No. 1,362,179; Dec. 14; v. 281; p. 286.
Trousers-supporter. L. Woods. No. 1,330,968; Feb. 17; v. 271; p. 405.
Trousers-supporting device. J. Sturm. No. 1,342,930; June 8; v. 275; p. 311.
Trowel. E. J. Ashby. No. 1,353,014; Sept. 14; v. 278; p. 289.
Trowel. P. L. Ferguson. No. 1,331,097; Feb. 17; v. 271; p. 429.
Trowel. B. J. Parker. No. 1,332,232; Mar. 2; v. 272; p. 10.
Truck: *See*—
Shop-pan truck.
Truck. T. F. Brackett. No. 1,333,244; Mar. 9; v. 272; p. 254.
Truck. L. O. Culver and J. B. Wills. No. 1,340,378; May 18; v. 274; p. 457.
Truck. E. Dietz. No. 1,349,500; Aug. 10; v. 277; p. 319.
Truck. A. A. Gamble and W. A. Watkins. No. 1,360,208; Nov. 23; v. 280; p. 739.
Truck. J. T. Hall. No. 1,341,171; May 25; v. 274; p. 679.
Truck. C. Holdefer. No. 1,361,728; Dec. 7; v. 281; p. 150.
Truck. F. D. Holdsworth. No. 1,363,205; Dec. 21; v. 281; p. 538.
Truck. M. P. Holmes. No. 1,342,407; June 1; v. 275; p. 155.
Truck. W. Hyden. No. 1,337,914; Apr. 20; v. 273; p. 554.
Truck. W. F. Irrgang. No. 1,339,109; May 4; v. 274; p. 86.
Truck. J. A. Johnson. No. 1,339,514; May 11; v. 274; p. 237.
Truck. F. H. Reynolds. No. 1,341,197; May 25; v. 274; p. 685.
Truck. H. W. and C. J. Schaumburg. No. 1,334,559; Mar. 23; v. 272; p. 609.
Truck. W. E. Sullivan. No. 1,351,808; Sept. 7; v. 278; p. 18.
Truck. T. G. Thomas. No. 1,345,564; July 6; v. 276; p. 47.
Truck. P. J. Wesolowski. No. 1,334,476; Mar. 23; v. 272; p. 592.
Truck. G. S. Wood. No. 1,345,469; July 6; v. 276; p. 28.
Truck, Aeroplane-. G. C. Loening. No. 1,357,177; Oct. 26; v. 279; p. 675.
Truck and jack, Combined. W. J. Miller and L. A. Frayer. No. 1,361,889; Dec. 14; v. 281; p. 228.
Truck and mounting, Car-. B. G. Van Dyke, Jr. No. 1,331,887; Feb. 24; v. 271; p. 597.
Truck and scale, Combined hand-. A. J. Bishop. No. 1,342,246; June 1; v. 275; p. 125.
Truck and wagon dump, Combination. F. W. Swanson. No. 1,338,798; May 4; v. 274; p. 28.
Truck, Article-carrying. G. M. Turner. No. 1,356,672; Oct. 26; v. 279; p. 577.
Truck, Artillery. W. T. Dove. No. 1,350,644; Aug. 24; v. 277; p. 661.
Truck, Ash-. C. E. Le Page. No. 1,344,047; June 22; v. 275; p. 659.
Truck attachment for automobiles. A. E. Cook. No. 1,350,006; Aug. 17; v. 277; p. 490.
Truck attachment for automobiles. A. D. Smith. No. 1,363,022; Dec. 21; v. 281; p. 502.
Truck attachment, Hand-. E. H. Nylin. No. 1,358,235; Nov. 9; v. 280; p. 260.
Truck, Auto ambulance-. J. H. Staley. No. 1,350,527; Aug. 24; v. 277; p. 639.
Truck, Axle-. J. F. Fox. No. 1,355,760; Oct. 12; v. 279; p. 310.
Truck, Binder-. H. H. Peterson. No. 1,360,975; Nov. 30; v. 280; p. 957.
Truck-bodies, Combined locking and lifting device for. B. J. Synstelien. No. 1,342,472; June 8; v. 275; p. 221.
Truck-bodies in knockdown form, Assembling. O. C. George. No. 1,335,574; Mar. 30; v. 272; p. 859.
Truck-body. F. A. Crandall. No. 1,328,130; Jan. 13; v. 270; p. 295.
Truck-body. D. H. Harris. No. 1,354,187; Sept. 28; v. 278; p. 626.
Truck body and rack, Combined. E. R. Cobb. No. 1,360,889; Nov. 30; v. 280; p. 941.
Truck-body construction. H. G. Moore. No. 1,356,459; Oct. 19; v. 279; p. 488.
Truck bolster, Railway-motor-. R. S. Zeitler. No. 1,332,588; Mar. 2; v. 272; p. 79.
Truck, Box or case. C. K. Carlson. No. 1,337,438; Apr. 20; v. 273; p. 463.
Truck-brake. Z. Z. Duncan. No. 1,329,960; Feb. 3; v. 271; p. 115.
Truck brake, Hand-. C. L. Latham. No. 1,348,428; Aug. 3; v. 277; p. 59.
Truck, Car-. J. C. Barber. No. 1,347,887; July 27; v. 276; p. 684.
Truck, Car-. F. L. Barber and E. W. Webb. No. 1,351,459; Aug. 31; v. 277; p. 882.
Truck, Car-. J. D. Benbow. No. 1,361,808; Dec. 14; v. 281; p. 212.
Truck, Car-. T. Elliott. No. 1,335,225; Mar. 30; v. 272; p. 794.

Digitized by Google

Alphabetical list of inventions—Continued.

Truck, Car-. B. D. Lockwood and J. F. Streib. No. 1,358,320; Nov. 9; v. 280; p. 277.
Truck, Car-. E. Posson. No. 1,348,124; July 27; v. 276; p. 780.
Truck, Car-. C. T. Westlake. No. 1,358,043; Nov. 9; v. 280; p. 222.
Truck, Car-. H. M. Pflager. No. 1,358,016; Nov. 9; v. 280; p. 217.
Truck, Carrying-. J. Engelbrecht. No. 1,345,667; July 6; v. 276; p. 66.
Truck construction and drive, Motor-. W. S. Morton. No. 1,339,124; May 4; v. 274; p. 89.
Truck construction for railways, Six-wheel-. C. L. Orr. No. 1,356,653; Oct. 26; v. 279; p. 573.
Truck construction, Motor-. F. H. Farmer. No. 1,341,306; May 25; v. 274; p. 705.
Truck construction, Motor-. W. A. Kysor. No. 1,342,266; June 1; v. 275; p. 128.
Truck, Conveying-. K. A. and E. H. Widegren. No. 1,341,249; May 25; v. 274; p. 694.
Truck, Derrick-. E. Holmes. No. 1,359,378; Nov. 16; v. 280; p. 530.
Truck, Derrick-. E. Holmes. No. 1,359,379; Nov. 16; v. 280; p. 530.
Truck differential mechanism, Automobile-. E. M. Sternberg. No. 1,334,325; Mar. 23; v. 272; p. 564.
Truck, Drag-. W. Schuldt. No. 1,333,780; Mar. 16; v. 272; p. 416.
Truck-driving mechanism. R. C. Osgood. No. 1,364,052; Dec. 28; v. 281; p. 741.
Truck, Dump-. B. Taylor. No. 1,358,346; Nov. 9; v. 280; p. 282.
Truck, Dumping-. V. M. Haddon. No. 1,359,363; Nov. 16; v. 280; p. 527.
Truck, Dumping-. C. T. Radeleff. No. 1,330,655; Feb. 10; v. 271; p. 276.
Truck, Dumping-. A. D. Tait. No. 1,344,100; June 22; v. 275; p. 669.
Truck-dumping mechanism. A. C. Settlage. No. 1,328,240; Jan. 13; v. 270; p. 317.
Truck-dumping mechanism. A. C. Settlage. No. 1,336,163; Apr. 6; v. 273; p. 87.
Truck-dumping mechanism. C. L. Trapp. No. 1,350,087; Aug. 17; v. 277; p. 506.
Truck, Electrically-driven luggage-. J. E. Hamilton. No. 1,361,987; Dec. 14; v. 281; p. 249.
Truck, Electrically-operated elevating platform-. D. E. Hennessy and J. McGeorge. No. 1,331,198; Feb. 17; v. 271; p. 447.
Truck, Elevating-. J. A. Butterworth. No. 1,352,426; Sept. 14; v. 278; p. 172.
Truck, Elevating. C. M. Hendershott. No. 1,346,710; July 13; v. 276; p. 335.
Truck, Elevating. D. E. Hennessy. No. 1,361,257; Dec. 7; v. 281; p. 54.
Truck, Elevating-. B. E. Scriven. No. 1,338,255; Apr. 27; v. 273; p. 687.
Truck, Folding display-. H. C. Fowler. No. 1,350,963; Aug. 24; v. 277; p. 722.
Truck for handling metal containers, &c. H. B. Sabin. No. 1,358,881; Nov. 16; v. 280; p. 435.
Truck for emptying and refilling dry kilns, Dry-kiln. L. E. Carter. No. 1,337,439; Apr. 20; v. 273; p. 463.
Truck for lifting and transporting loads, Hand-. W. A. Oubridge. No. 1,329,995; Feb. 3; v. 271; p. 121.
Truck for locomotives, Front. W. M. Sheehan. No. 1,354,140; Sept. 28; v. 278; p. 617.
Truck for overhead transportation systems, Carrier-. J. F. Montine. No. 1,344,924; June 29; v. 275; p. 895.
Truck for portable lights. A. F. Jenkins. No. 1,341,235; May 25; v. 274; p. 692.
Truck for tractors and similar vehicles, Front. L. G. E. Buehler. No. 1,330,056; Feb. 10; v. 271; p. 164.
Truck for transporting leather-frames, &c. E. H. Merrill. No. 1,330,891; Feb. 17; v. 271; p. 389.
Truck frame, Motor-. C. B. Flinchbaugh. No. 1,346,744; July 13; v. 276; p. 341.
Truck, Hand-. J. F. Callahan. No. 1,342,585; June 8; v. 275; p. 243.
Truck, Harrow-. B. B. Niceley. No. 1,348,039; July 27; v. 276; p. 714.
Truck-hoist. P. C. Haas. No. 1,340,893; May 25; v. 274; p. 625.
Truck-hoist. T. L., Lilly. No. 1,341,142; May 25; v. 274; p. 674.
Truck hoist. J. Newton. No. 1,356,879; Oct. 26; v. 279; p. 617.
Truck, Hoisting-. G. W. Jackson. No. 1,355,479; Oct. 12; v. 279; p. 256.
Truck, Industrial. M. S. Towson and C. E. Cochran. No. 1,337,804; Apr. 20; v. 273; p. 532.
Truck, Inking-roll. L. J. Warner. No. 1,350,127; Aug. 17; v. 277; p. 513.
Truck, Jack-. J. F. Moeller. No. 1,348,294; Aug. 3; v. 277; p. 33.
Truck, Laundry-. F. M. Watkins. No. 1,330,927; Feb. 17; v. 271; p. 397.
Truck, Lifting-. W. Stuebing, Jr. (Reissue.) No. 14,839; Apr. 13; v. 273; p. 341.
Truck, Loading and hauling automobile-. O. Amos and E. A. McKee. No. 1,346,152; July 13; v. 276; p. 224.
Truck, Loading and unloading. W. T. Hollaway. No. 1,342,628; June 8; v. 275; p. 250.
Truck-loading device. A. L. Rice. No. 1,354,688; Oct. 5; v. 279; p. 48.
Truck-locking device. K. F. Nystrom. No. 1,357,796; Nov. 2; v. 280; p. 114.
Truck, Locomotive-. F. J. Cole. No. 1,334,738; Mar. 23; v. 272; p. 642.
Truck, Lumber-. W. S. Overlin. No. 1,349,292; Aug. 10; v. 277; p. 278.
Truck mechanism, Tractor. W. Turnbull. No. 1,336,387; Apr. 6; v. 273; p. 129.
Truck, Motor-. C. J. McCutchen. No. 1,342,752; June 8; v. 275; p. 276.
Truck, Motor-propelled. W. J. Smith. No. 1,359,192; Oct. 26; v. 279; p. 677.
Truck-nose, Removable. G. S. Wood. No. 1,345,470; July 6; v. 276; p. 28.
Truck, Piano-lifting. F. D. Lea. No. 1,328,634; Jan. 20; v. 270; p. 427.
Truck power-shovel. S. J. Russell. No. 1,359,841; Nov. 23; v. 280; p. 667.
Truck, Rail-. P. H. Madden. No. 1,352,076; Sept. 7; v. 278; p. 70.
Truck, Railway-. K. Rushton. No. 1,328,592; Jan. 20; v. 270; p. 420.
Truck, Railway-car. G. A., Jr., and J. C. Boyden. No. 1,341,776; June 1; v. 275; p. 33.
Truck, Railway-car. G. A., Jr., and J. C. Boyden. No. 1,341,777; June 1; v. 275; p. 33.
Truck, Railway-car. G. A., Jr., and J. C. Boyden. No. 1,341,778; June 1; v. 275; p. 33.
Truck, Railway-car. G. A., Jr., and J. C. Boyden. No. 1,341,779; June 1; v. 275; p. 33.
Truck, Railway-car. G. A., Jr., and J. C. Boyden. No. 1,341,780; June 1; v. 275; p. 33.
Truck, Railway-car. G. A., Jr., and J. C. Boyden. No. 1,341,781; June 1; v. 275; p. 34.
Truck, Railway-car. R. A. McClure and W. W. Boulton. No. 1,336,361; Apr. 6; v. 273; p. 124.
Truck, Sacking-. O. T. Bergquist. No. 1,330,835; Feb. 17; v. 271; p. 378.
Truck-service recorders, Protective device for auto-. J. F. and F. L. Ohmer. No. 1,360,568; Nov. 30; v. 280; p. 878.
Truck side frame. C. E. Bauer. No. 1,330,049; Feb. 10; v. 271; p. 163.
Truck side frame. H. E. Doerr. No. 1,358,424; Nov. 9; v. 280; p. 299.
Truck side frame, Pedestal. H. E. Doerr. No. 1,356,700; Oct. 26; v. 279; p. 582.
Truck side frame, Pedestal. H. E. Doerr. No. 1,358,425; Nov. 9; v. 280; p. 300.
Truck side frame, Railway-. J. A. Lamont. No. 1,355,344; Oct. 12; v. 279; p. 230.
Truck, Six-wheel pivotal bogie-. E. E. Cook. No. 1,352,878; Sept. 14; v. 278; p. 263.
Truck-skid. C. E. Gerberich. No. 1,331,704; Feb. 24; v. 271; p. 562.
Truck, Stair-climbing hand-. P. M. White. No. 1,334,726; Mar. 23; v. 272; p. 639.
Truck-stake. A. Mills. No. 1,333,990; Mar. 16; v. 272; p. 456.
Truck-starting implement. J. Ten Brink. No. 1,358,347; Nov. 9; v. 280; p. 283.
Truck steering-gear, Power-driven. D. T. Timberlake. No. 1,354,148; Sept. 28; v. 278; p. 619.
Truck superstructure for sanitary ware. G. Brain. No. 1,333,381; Mar. 9; v. 272; p. 280.
Truck, Swivel-. J. H. Rose. No. 1,346,466; July 13; v. 276; p. 286.
Truck, Tobacco-. J. A. Gardner. No. 1,363,245; Dec. 28; v. 281; p. 586.
Truck, Tobacco-. B. W. Rhodes. No. 1,357,117; Oct. 26; v. 279; p. 664.
Truck, Tractor-. W. Strait. No. 1,349,791; Aug. 17; v. 277; p. 449.
Truck tractor, Motor-. W. and M. H. Paterson. No. 1,336,653; Apr. 13; v. 273; p. 239.
Truck, Trailer-. H. B. Levinson. No. 1,327,338; Jan. 6; v. 270; p. 85.
Truck, Transportation-. E. C. Pruismann. No. 1,340,672; May 18; v. 274; p. 513.
Truck use, Device adapting passenger-automobiles to commercial-. F. Lenser. No. 1,360,419; Nov. 30; v. 280; p. 848.
Truck, Vehicle-wheel. W. W. Snyder. No. 1,343,650; June 15; v. 275; p. 516.
Truck, Vertically-adjustable hand-. H. R. Clark. No. 1,343,864; June 15; v. 275; p. 559.
Truck, Wrecking-. D. Gould. No. 1,349,198; Aug. 10; v. 277; p. 259.
Trucks and automobiles, Safety-guard for use on. S. E. Atherton. No. 1,354,444; Sept. 28; v. 278; p. 678.
Trucks and similar vehicles, Brake for. H. C. Struchen. No. 1,353,862; Sept. 28; v. 278; p. 560.
Trucks, Attaching members for axle and caster housings for. F. J. Trumpour. No. 1,338,657; Apr. 27; v. 273; p. 762.
Trucks, Axle-housing and fifth-wheel construction for motor-. W. S. Morton. No. 1,342,861; June 8; v. 275; p. 298.
Trucks, Centrifugal brake for power-. A. H. Gibson. No. 1,352,060; Sept. 7; v. 278; p. 67.
Trucks, Detachable handle for. W. C. Hecht. No. 1,336,033; Apr. 6; v. 273; p. 63.

Digitized by Google

Trucks, Driving apparatus for monorail-. R. A. McClure and W. W. Boulton. No. 1,345,867; July 6; v. 276; p. 106.
Trucks, Dumping-body for. C. J. Young. No. 1,329,101; Jan. 27; v. 270; p. 544.
Trucks, End-gate for dumping-. H. Mecking. No. 1,360,772; Nov. 30; v. 280; p. 918.
Trucks, Equalizer and brake mechanism for car-. E. Posson. No. 1,363,347; Dec. 28; v. 281; p. 606.
Trucks, Hydraulic dump for automobile-. N. Sparks. No. 1,332,008; Feb. 24; v. 271; p. 620.
Trucks, Loading-skid for. A. G. Behrens and S. H. Longacre. No. 1,357,607; Nov. 2; v. 280; p. 76.
Trucks, Operating mechanism for elevating-. J. L. Chesnutt. No. 1,353,564; Sept. 21; v. 278; p. 457.
Trucks, Platform for use with elevating-. R. M. Roberts. No. 1,349,917; Aug. 17; v. 277; p. 473.
Trucks, Self-loader for auto-. C. A. Blank. No. 1,348,777; Aug. 3; v. 277; p. 125.
Trucks, Skid for elevating and conveying. W. L. Baxter. No. 1,329,357; Feb. 3; v. 271; p. 4.
Trucks, Spring-mounting for car-. L. F. Seelar. No. 1,331,529; Feb. 24; v. 271; p. 529.
Trucks, Steering mechanism for motor-. W. S. Morton. No. 1,339,125; May 4; v. 274; p. 89.
Trucks, Tail-gate-operating mechanism for dump-. P. Carlson. No. 1,332,424; Mar. 2; v. 272; p. 48.
Trucks to car-underframes, Means for locking. K. F. Nystrom. No. 1,356,001; Oct. 19; v. 279; p. 897.
Trucks, wagons, freight-cars, &c., Dumping-body for automobile-. F. Anderson and A. Wild. No. 1,328,805; Jan. 27; v. 270; p. 487.
Trucks, Worm-hoist for dump-. F. R. Whitton and W. Oster. No. 1,359,776; Nov. 23; v. 280; p. 654.
Truing-stand. C. S. Ash. No. 1,353,505; Sept. 21; v. 278; p. 445.
Trump-indicating device. E. Steigerwald. No. 1,351,971; Sept. 7; v. 278; p. 51.
Trundle and operating handle therefor, Combined. L. F. St. Cyr. No. 1,356,023; Oct. 19; v. 279; p. 402.
Trunk. S. C. Horton. No. 1,332,666; Mar. 2; v. 272; p. 94.
Trunk. O. G. Lemmer. No. 1,363,134; Dec. 21; v. 281; p. 524.
Trunk. N. A. Reinhard. No. 1,330,280; Feb. 10; v. 271; p. 206.
Trunk and suitcase fastener. C. E. Duggan. No. 1,339,174; May 4; v. 274; p. 97.
Trunk and table, Combination. J. Nierodka. No. 1,350,834; Aug. 24; v. 277; p. 698.
Trunk-appliance. H. S. Carson. No. 1,361,748; Dec. 7; v. 281; p. 154.
Trunk-bag, Self-closing-. H. K. Likly. No. 1,347,390; July 20; v. 276; p. 527.
Trunk-band. R. T. Emery. No. 1,358,814; Sept. 21; v. 278; p. 508.
Trunk-circuit. C. Sparks. No. 1,358,182; Nov. 9; v. 280; p. 250.
Trunk-closure. Double-acting. B. H. Erwin. No. 1,354,606; Oct. 5; v. 279; p. 32.
Trunk-collar and track, Combined. G. H. Wheary. No. 1,339,534; May 11; v. 274; p. 240.
Trunk-fastener. G. Willinghaus. No. 1,329,869; Feb. 3; v. 271; p. 98.
Trunk-follower. E. B. Linnett. No. 1,358,223; Nov. 9; v. 280; p. 258.
Trunk-lid holder. P. Maros. No. 1,334,546; Mar. 23; v. 272; p. 606.
Trunk opener and carrier, Wardrobe-. W. W. Whitten. No. 1,352,234; Sept. 7; v. 278; p. 100.
Trunk, Wardrobe-. O. Rangnow. No. 1,361,181; Dec. 7; v. 281; p. 40.
Trunk, Wardrobe-. G. Sachnoff. No. 1,360,448; Nov. 30; v. 280; p. 854.
Trunk-wardrobe-section protector. G. H. Wheary. No. 1,339,533; May 11; v. 274; p. 240.
Trunking system. F. M. Bascom. No. 1,363,219; Dec. 28; v. 281; p. 581.
Trunks, Garment-retainer for. G. H. Wheary. No. 1,328,470; Jan. 20; v. 279; p. 896.
Trunks, Hanger-retaining device for wardrobe-. W. W. Dunn and J. H. Beasley. No. 1,344,872; June 29; v. 275; p. 885.
Trunks, Hanger-supporting rail for wardrobe-. L. F. Brasch. No. 1,332,286; Mar. 2; v. 272; p. 21.
Truss. J. L. Brennan. No. 1,364,032; Dec. 28; v. 281; p. 737.
Truss. J. W. Buckley. No. 1,337,994; Apr. 27; v. 273; p. 638.
Truss. A. L. Cobb. No. 1,328,944; Jan. 27; v. 270; p. 515.
Truss. I. N. Cress. No. 1,339,946; May 11; v. 274; p. 319.
Truss. J. Cunningham. No. 1,345,139; June 29; v. 275; p. 936.
Truss. J. Doleck. No. 1,336,513; Apr. 13; v. 273; p. 212.
Truss. G. H. Eddleman. No. 1,345,148; June 29; v. 275; p. 937.
Truss. C. Eleman. No. 1,360,509; Nov. 30; v. 280; p. 867.
Truss. N. W. Kline. No. 1,357,405; Nov. 2; v. 280; p. 39.
Truss. B. Lloid. No. 1,338,991; May 4; v. 274; p. 66.
Truss. P. J. Mahan. No. 1,340,903; May 25; v. 274; p. 627.
Truss. F. P. McElfresh. No. 1,341,333; May 25; v. 274; p. 711.
Truss. C. Vermiaud. No. 1,360,476; Nov. 30; v. 280; p. 860.
Truss. C. S. Wahlstrom. No. 1,353,867; Sept. 28; v. 278; p. 561.
Truss-spring bumper-bar. L. P. Halladay. No. 1,362,620; Dec. 21; v. 281; p. 424.
Tub: *See*—
Bathtub. Laundry-tub.
Ice-cream tub. Rinse-tub.
Tub. T. Harrington. No. 1,342,807; June 8; v. 275; p. 287.
Tub-beater. J. E. Salsman. No. 1,338,869; May 4; v. 274; p. 40.
Tubs, Water-controlling mechanism for laundry-. T. Birkenmaier. No. 1,345,811; June 29; v. 275; p. 970.
Tubs, Wringer attachment for. C. B. Davis. No. 1,327,526; Jan. 6; v. 270; p. 121.
Tubs, Wringer attachment for. C. B. Davis. No. 1,327,527; Jan. 6; v. 270; p. 121.
Tube: *See*—
Button-hopper and transfer-tube. Mucilage-tube.
Collapsible tube. Rectal tube.
Dental-cement-injecting tube. Sight-tube.
Despatch-tube. Tire inner tube.
Electrical discharge-tube. Water-circulating tube.
Inner tube. Welded tube.
X-ray tube.
Tube. L. H. Brinkman. No. 1,327,195; Jan. 6; v. 270; p. 59.
Tube. W. H. Fulton. No. 1,348,793; Aug. 3; v. 277; p. 127.
Tube and making same, Curved wood. J. Csumpft. No. 1,358,895; Sept. 28; v. 278; p. 566.
Tube and making same, Electrically-welded. T. E., Jr., and J. B. Murray. No. 1,363,157; Dec. 21; v. 281; p. 528.
Tube and making same, Electrically-welded. T. E., Jr., and J. B. Murray. No. 1,363,158; Dec. 21; v. 281; p. 529.
Tube and making same, Inner. H. Dech. No. 1,340,702; May 18; v. 274; p. 519.
Tube and making same, Inner. H. Dech. No. 1,340,704; May 18; v. 274; p. 519.
Tube and method of and apparatus for making same, Inner. H. Dech. No. 1,340,703; May 18; v. 274; p. 519.
Tube and other container, Collapsible. M. B. Behrman. No. 1,357,024; Oct. 26; v. 279; p. 646.
Tube and producing same, Metal-incased. T. E., Jr., and J. B. Murray. No. 1,333,275; Mar. 9; v. 272; p. 260.
Tube and product thereof, Splicing-. C. T. Hampton. No. 1,342,441; June 8; v. 275; p. 215.
Tube apparatus, Pneumatic-despatch-. J. G. Maclaren. No. 1,327,718; Jan. 13; v. 270; p. 218.
Tube boilers, System of variation between sizes or classes of semivertical curved-. A. D. Pratt. No. 1,363,915; Dec. 28; v. 281; p. 715.
Tube-cap. A. Landgrebe. No. 1,340,061; May 11; v. 274; p. 340.
Tube-clamp. G. E. Evitts and W. Goettlich. No. 1,330,523; Feb. 10; v. 271; p. 252.
Tube-cleaner. C. T. Coe. No. 1,348,542; Aug. 3; v. 277; p. 80.
Tube-cleaner. P. J. Darlington. No. 1,345,480; July 6; v. 276; p. 30.
Tube-cleaner. F. Zlatnik. No. 1,355,726; Oct. 12; v. 279; p. 804.
Tube-coiling machine. F. H. Sleeper. No. 1,353,186; Sept. 21; v. 278; p. 383.
Tube-compressor. J. J. Bowes, Jr. No. 1,347,931; July 27; v. 276; p. 692.
Tube-compressor. A. J. Frey and F. S. Hyatt. No. 1,357,551; Nov. 2; v. 280; p. 65.
Tube-coupling for pneumatic-despatch systems. A. W. Pearsall. No. 1,357,894; Nov. 2; v. 280; p. 132.
Tube-cutter. O. Wiedeke. No. 1,357,367; Nov. 2; v. 280; p. 32.
Tube device, Vacuum-. E. R. Stoekle. No. 1,353,976; Sept. 28; v. 278; p. 583.
Tube, Electrically-welded. T. E., Jr., and J. B. Murray. No. 1,363,159; Dec. 21; v. 281; p. 529.
Tube-expander. A. H. Ihsen. No. 1,357,059; Oct. 26; v. 279; p. 653.
Tube-forming machine. R. F. Freeman. No. 1,335,432; Mar. 30; v. 272; p. 833.
Tube-frame. C. Lea. No. 1,329,308; Jan. 27; v. 270; p. 581.
Tube joint, Metal-. R. Savon. No. 1,329,479; Feb. 3; v. 271; p. 26.
Tube-knocker. H. G. Monkhorst. No. 1,341,277; May 25; v. 274; p. 699.
Tube-loading machine. B. U. Eddy. No. 1,331,902; Feb. 24; v. 271; p. 600.
Tube machine, Seamed-. W. C. Smith. No. 1,355,282; Oct. 12; v. 279; p. 218.
Tube-machines, Heat-regulating attachment for. F. Sass. No. 1,360,323; Nov. 30; v. 280; p. 830.

Digitized by Google

Alphabetical list of inventions—Continued.

Tube-making machine. S. Derringer. No. 1,340,706; May 18; v. 274; p. 519.
Tube-mill. H. W. Hardinge. No. 1,348,642; Aug. 3; v. 277; p. 99.
Tube-mill. Combination ball. J. E. Kenneday. No. 1,360,648; Nov. 30; v. 280; p. 894.
Tube-scraping apparatus. L. F. Lechtenberg. No. 1,343,215; June 15; v. 275; p. 432.
Tube-stopper. A. P. Kofoed and N. P. Nielsen. No. 1,335,117; Mar. 30; v. 272; p. 775.
Tube structure, Torque-. E. Richard. No. 1,330,550; Feb. 10; v. 271; p. 256.
Tube suspension. O. Carr. No. 1,327,144; Jan. 6; v. 270; p. 50.
Tube systems, Automatic locking device for pneumatic-. G. F. Botscheider. No. 1,339,594; May 11; v. 274; p. 252.
Tube-threading machine. E. Tymeson. No. 1,363,377; Dec. 28; v. 281; p. 611.
Tube, Welded. J. L. Sussman. No. 1,332,932; Mar. 9; v. 272; p. 196.
Tube-welding machine. F. Kritz. No. 1,363,326; Dec. 28; v. 281; p. 602.
Tubes and pipes, Method of and apparatus for detecting pitting and the like in. P. E. McNeil. No. 1,363,258; Dec. 28; v. 281; p. 589.
Tubes, Apparatus for and method of making rubber. H. R. Stratford. No. 1,358,124; Nov. 9; v. 280; p. 239.
Tubes, Apparatus for forming. J. F. Pierce. No. 1,345,469; July 6; v. 276; p. 26.
Tubes, Apparatus for forming. J. F. Pierce. No. 1,351,870; Sept. 7; v. 278; p. 32.
Tubes, Apparatus for forming metallic. E. Warner. No. 1,343,946; June 22; v. 275; p. 640.
Tubes, Apparatus for self-hooping. E. Schneider. No. 1,338,872; May 4; v. 274; p. 41.
Tubes, Apparatus for washing and cleaning test-. J. T. Edwards. No. 1,332,038; Feb. 24; v. 271; p. 624.
Tubes, Armor for inner. H. M. Stevens. No. 1,343,418; June 15; v. 275; p. 470.
Tubes, bottles, &c., Brush for use in cleaning test-. J. T. Edwards. No. 1,332,084; Feb. 24; v. 271; p. 625.
Tubes, Closure for collapsible. O. Sondheim. No. 1,354,921; Oct. 5; v. 279; p. 95.
Tubing compressor, Flexible-. A. J. Frey. No. 1,359,980; Nov. 23; v. 280; p. 695.
Tubes, Device for cutting. J. F. Pierce. No. 1,345,458; July 6; v. 276; p. 25.
Tubes, Die for extruding collapsible. W. C. Huntoon. No. 1,347,007; July 27; v. 276; p. 707.
Tubes, Forming. W. N. Vance. No. 1,344,105; June 22; v. 275; p. 670.
Tubes, Machine for cutting off condenser-. E. F. Essner. No. 1,328,039; Jan. 13; v. 270; p. 278.
Tubes, Machine for forming. F. H. Stolp. No. 1,327,641; Jan. 13; v. 270; p. 208.
Tubes, Machinery for extruding metal. H. D. Swift and A. L. Scott. No. 1,331,169; Feb. 17; v. 271; p. 442.
Tubes, Making inner. H. Dech. No. 1,354,174; Sept. 28; v. 278; p. 623.
Tubes, Means for supporting electrodes in ionic. F. P. Driver. No. 1,330,935; Feb. 17; v. 271; p. 398.
Tubes, Means for supporting electrodes in ionic. O. Durdle. No. 1,343,551; June 15; v. 275; p. 496.
Tubes, Method of and machine for producing internally coated or lined woven. J. A. Kennedy. No. 1,327,677; Jan. 13; v. 270; p. 210.
Tubes, Mold for molding rubber. N. G. Warth. No. 1,361,208; Dec. 7; v. 281; p. 45.
Tubes, Mold for pneumatic. J. J. Berger and J. Gardner. No. 1,362,594; Dec. 21; v. 281; p. 418.
Tubes of dissimilar metals, Connection of. L. Brequet. No. 1,347,075; July 20; v. 276; p. 466.
Tubes, Oxyacetylene-torch for cutting. J. S. Reynolds. No. 1,352,381; Sept. 7; v. 278; p. 128.
Tubes, Producing longitudinal ribs on the exteriors of. T. E., Jr., and J. B. Murray. No. 1,339,970; May 11; v. 274; p. 323.
Tubes, Receptacle for pneumatic-tire. M. F. Swerer. No. 1,337,178; Apr. 13; v. 273; p. 340.
Tubes within tubes, Inclosing. T. E., Jr., and J. B. Murray. No. 1,363,160; Dec. 21; v. 281; p. 529.
Tubing. L. C. Stukenborg. No. 1,343,236; June 15; v. 275; p. 436.
Tubing, Butt-welding. J. C. Sander. No. 1,363,356; Dec. 28; v. 281; p. 607.
Tubing, Channel-. M. L. Brown. No. 1,350,544; Aug. 24; v. 277; p. 642.
Tubing, Channel-. J. A. McIntosh. No. 1,349,684; Aug. 17; v. 277; p. 429.
Tubing construction. R. H. Brownlee. No. 1,329,285; Jan. 27; v. 270; p. 578.
Tubing-coupling. J. H. Dohner. No. 1,337,547; Apr. 20; v. 273; p. 484.
Tubing-drainer. F. Ulrich. No. 1,354,862; Oct. 5; v. 279; p. 83.
Tubing, Flexible. A. Sundh. No. 1,326,988; Jan. 6; v. 270; p. 21.
Tubing, Flexible gas-. C. E. Verhunce. No. 1,361,206; Dec. 7; v. 281; p. 45.
Tubing, Manufacturing. F. E. Blaisdell. No. 1,361,001; Dec. 7; v. 281; p. 4.
Tubing, Manufacturing electrically-welded. R. Stresau. No. 1,359,001; Nov. 16; v. 280; p. 458.
Tubing of metal, pulp, &c., Machine for making seamless. G. E. Neuberth. No. 1,330,489; Feb. 10; v. 271; p. 245.
Tubing, Reinforced well-. E. F. Hall. No. 1,330,816; Feb. 10; v. 271; p. 218.
Tubular bodies from welding, Preventing cores for. P. A. E. Armstrong. No. 1,341,204; May 25; v. 274; p. 686.
Tubular boiler, Return. E. von der Lippe. No. 1,360,980; Nov. 30; v. 280; p. 968.
Tubular objects, Making a plurality of like. T. E. Murray. No. 1,350,829; Aug. 24; v. 277; p. 697.
Tubular structures, Method of and apparatus for molding. L. T. Frederick. No. 1,335,105; Mar. 30; v. 272; p. 772.
Tuft-pile-fabric loom. H. Hughes. No. 1,363,790; Dec. 28; v. 281; p. 691.
Tufting-machine. J. Gwisdowski. No. 1,360,522; Nov. 30; v. 280; p. 869.
Tumbler, Dredge-. C. B. Andrews. No. 1,333,367; Mar. 9; v. 272; p. 278.
Tumbler, Drying-. W. Bartholomew. No. 1,327,609; Jan. 13; v. 270; p. 197.
Tumbler, Sand-blast. S. Coburn. No. 1,343,350; June 15; v. 275; p. 457.
Tumbler-switch. H. J. Dean-Osgood. No. 1,339,171; May 4; v. 274; p. 96.
Tumblers, jars, bottles, and other receptacles, Closure for. A. and H. Ingram. No. 1,353,398; Sept. 21; v. 278; p. 424.
Tungsten-crucible and making and using same. J. H. Robertson and D. Junkower. No. 1,333,036; Mar. 9; v. 272; p. 216.
Tungsten, Extraction and recovery of. A. G. de Golyer and A. E. Lund. No. 1,335,277; Mar. 30; v. 272; p. 804.
Tungsten, Method of and article for alloying. J. H. Deppeler. No. 1,350,709; Aug. 24; v. 277; p. 674.
Tuning-pin polisher. W. B. Ellsworth. No. 1,329,701; Feb. 3; v. 271; p. 66.
Tunnel and excavating. J. C. Meem. No. 1,338,030; Apr. 27; v. 273; p. 645.
Tunnel-block. C. G. Hastings. No. 1,337,767; Apr. 20; v. 273; p. 526.
Tunnel construction. G. P. Helfrich. No. 1,363,115; Dec. 21; v. 281; p. 520.
Tunnel construction. H. W. Schlueter. No. 1,353,274; Sept. 21; v. 278; p. 399.
Tunnel construction. W. B. Updegraff. No. 1,355,290; Oct. 12; v. 279; p. 220.
Tunnel-kiln. G. H. Benjamin. No. 1,329,745; Feb. 3; v. 271; p. 75.
Tunnel-kiln. G. W. Booth. No. 1,333,099; Mar. 9; v. 272; p. 228.
Tunnel-kiln. P. d'H. Dressler. No. 1,330,433; Feb. 10; v. 271; p. 235.
Tunnel-kiln. P. Dressler. No. 1,354,541; Oct. 5; v. 279; p. 19.
Tunnel-kiln. F. J. Leisen and E. S. Dunn. No. 1,345,605; July 6; v. 276; p. 54.
Tunnel-kiln. P. A. Meehan. No. 1,348,510; Aug. 3; v. 277; p. 73.
Tunnel-kiln. P. A. Meehan. No. 1,348,511; Aug. 3; v. 277; p. 74.
Tunnel-kiln combustion-chamber. P. d'H. Dressler. No. 1,330,432; Feb. 10; v. 271; p. 235.
Tunnel kiln, Multiplex-. J. B. Owens. No. 1,356,398; Oct. 19; v. 279; p. 476.
Tunnel-kilns and convertible furnace therefor, Firing. J. B. Owens. No. 1,356,396; Oct. 19; v. 279; p. 476.
Tunnel-kilns, Car-mover for. P. A. Meehan. No. 1,326,949; Jan. 6; v. 270; p. 13.
Tunnel-kilns, Firing means for. J. B. Owens. No. 1,356,397; Oct. 19; v. 279; p. 476.
Tunnel-kilns, Method and means for firing. J. B. Owens. No. 1,355,906; Oct. 19; v. 279; p. 379.
Tunnel-lining. J. C. Meem. No. 1,350,556; Aug. 24; v. 277; p. 644.
Tunnel, Subaqueous. J. S. Williams. No. 1,329,317; Jan. 27; v. 270; p. 584.
Tunnels, and keeping tunnels free from noxious gases, Process of and apparatus for conveying motor-vehicles through. N. Hiss and F. D. Potter. No. 1,361,583; Dec. 7; v. 281; p. 122.
Tunnels for military or other purposes in earth or soft rock, Method and apparatus for driving. A. Hopkinson. No. 1,347,332; July 20; v. 276; p. 516.
Tunneling apparatus. J. O. Mack. No. 1,338,237; Apr. 27; v. 273; p. 684.
Tunneling-machine. I. Böhn. No. 1,328,118; Jan. 13; v. 270; p. 293.
Tunneling-machine. L. W. Campbell. No. 1,335,723; Apr. 6; v. 273; p. 4.
Tunneling-machine. C. W. Hodgson. No. 1,353,908; Sept. 28; v. 278; p. 569.
Tunneling-machine. H. R. Hughes. No. 1,333,491; Mar. 9; v. 272; p. 301.
Turbine. K. Baumann. No. 1,362,074; Dec. 14; v. 281; p. 266.
Turbine. W. S. Elliott. No. 1,342,845; June 8; v. 275; p. 295.

Digitized by Google

Turbine. J. H. Felthousen. No. 1,339,183; May 4; v. 274; p. 99.
Turbine. A. T. Kasley. No. 1,328,835; Jan. 27; v. 270; p. 498.
Turbine. G. Rischmuller. No. 1,362,963; Dec. 21; v 281; p. 490.
Turbine. H. F. Schmidt. No. 1,335,031; Mar. 30; v. 272; p. 758.
Turbine arrangement, Marine steam-. J. F. Metten and J. C. Shaw. No. 1,342,177; June 1; v. 275; p. 111.
Turbine. Axial-flow. F. Ljungström. No. 1,341,273; May 25; v. 274; p. 698.
Turbine-blade attachment. C. A. Parsons, S. S. Cook, and A. P. Bennett. No. 1,328,640; Jan. 20; v. 270; p. 428.
Turbine-blade attachment. C. A. Parsons, S. S. Cook, and A. J. Aldis. No. 1,344,311; June 22; v. 275; p. 711.
Turbine blades, Protecting device for steam-. H. C. Johnson and E. H. Percy. No. 1,333,661; Mar. 16; v. 272; p. 394.
Turbine-buckets, Mounting for. A. T. Kasley. No. 1,345,678; July 6; v. 276; p. 69.
Turbine control-housing. E. H. Sherbondy. No. 1,346,565; July 13; v. 276; p. 306.
Turbine-driven set. W. J. A. London. No. 1,362,497; Dec. 14; v. 281; p. 348.
Turbine-driven set. R. G. Standerwick. No. 1,337,098; Apr. 13; v. 273; p. 825.
Turbine-driven set, Elastic-fluid-. J. H. Doran. No. 1,362,401; Dec. 14; v. 281; p. 329.
Turbine, Elastic-fluid. E. D. Dickinson. No. 1,347,827; July 20; v. 276; p. 515.
Turbine, Elastic-fluid. G. Egger. No. 1,329,515; Feb. 3; v. 271; p. 33.
Turbine, Elastic-fluid. W. L. R. Emmet. No. 1,362,405; Dec. 14; v. 281; p. 330.
Turbine, Elastic-fluid. F. Hodgkinson. No. 1,345,674; July 6; v. 276; p. 68.
Turbine, Elastic-fluid. O. Junggren. No. 1,349,886; Aug. 17; v. 277; p. 467.
Turbine, Elastic-fluid. O. Junggren. No. 1,352,276; Sept. 7; v. 278; p. 108.
Turbine, Elastic-fluid. O. Junggren. No. 1,352,277; Sept. 7; v. 278; p. 108.
Turbine, Elastic-fluid. O. Junggren. No. 1,352,278; Sept. 7; v. 278; p. 108.
Turbine, Elastic-fluid. O. Junggren. No. 1,362,323; Dec. 14; v. 281; p. 315.
Turbine, Elastic-fluid. C. S. Rice. No. 1,337,096; Apr. 13; v. 273; p. 394.
Turbine, Elastic-fluid. G. E. Robb. No. 1,362,437; Dec. 14; v. 281; p. 336.
Turbine, Elastic-fluid. C. Steenstrup. No. 1,353,797; Sept. 21; v. 278; p. 503.
Turbine-engine. E. S. Bennett. No. 1,349,487; Aug. 10; v. 277; p. 316.
Turbine-engine. F. P. Machado. No. 1,356,106; Oct. 19; v. 279; p. 419.
Turbine-engine. F. P. Machado. No. 1,360,305; Nov. 30; v. 280; p. 827.
Turbine-engine. F. W. Oman. No. 1,329,626; Feb. 3; v. 271; p. 53.
Turbine-engine. C. J. Walters. No. 1,353,687; Sept. 21; v. 278; p. 483.
Turbine, Exhaust steam-. E. C. Newcomb. No. 1,331,999; Feb. 24; v. 271; p. 618.
Turbine, Explosion gas-. V. Olhovsky. No. 1,346,509; July 13; v. 276; p. 295.
Turbine, Extraction and mixed-pressure. J. H. Doran. No. 1,349,878; Aug. 17; v. 277; p. 466.
Turbine, Fluid-pressure. H. L. Guy. No. 1,360,936; Nov 30; v. 280; p. 949.
Turbine, Gas-. O. Frykman. No. 1,341,229; May 25; v. 274; p. 691.
Turbine, Gas-. A. Underdahl. No. 1,342,314; June 1; v. 275; p. 137.
Turbine gas-engine. G. F. and K. O. Schmid. No. 1,340,563; May 18; v. 274; p. 492.
Turbine, Geared. H. T. Herr. No. 1,339,508; May 11; v. 274; p. 235.
Turbine, Hydraulic. L. F. Moody. No. 1,341,859; June 1; v. 275; p. 49.
Turbine installation, Marine. R. N. Ehrhart. No. 1,343,665; June 15; v. 275; p. 519.
Turbine, Marine steam-. A. M. Rodberg. No. 1,353,360; Sept. 21; v. 278; p. 416.
Turbine, Marine. H. F. Schmidt. No. 1,345,641; July 6; v. 276; p. 61.
Turbine motor, Hydrocarbon or gasolene. W. G. Simpson. No. 1,339,483; May 11; v. 274; p. 231.
Turbine plant, Steam or gas. O. A. Wiberg. No. 1,334,576; Mar. 23; v. 272; p. 612.
Turbine plant, Steam or gas. O. A. Wiberg. No. 1,335,775; Apr. 6; v. 273; p. 14.
Turbine-rotors to their shafts, Means for securing. B. Ljungström. No. 1,347,343; July 20; v. 276; p. 519.
Turbine-rotors to their shafts, Means for securing. F. Ljungström. No. 1,347,344; July 20; v. 276; p. 519.
Turbine. Steam-. K. Baumann. No. 1,343,956; June 22; v. 275; p. 641.
Turbine. Steam-. A. Bonon. No. 1,331,313; Feb. 17; v. 271; p. 467.
Turbine, Steam-. B. G. Brolinson. No. 1,359,227; Nov. 16; v. 280; p. 500.
Turbine, Steam-. N. T. Collins. No. 1,355,090; Oct. 5; v. 279; p. 127.
Turbine, Steam-. R. J. Dupuy. No. 1,336,827; Apr. 13; v. 273; p. 278.
Turbine, Steam-. A. A. E. Sterzing. No. 1,338,708; Mar 4; v. 274; p. 11.
Turbine, Steam-. A. J. Thompson. No. 1,345,285; June 29; v. 275; p. 964.
Turbine, Steam-. H. H. Wait. No. 1,359,210; Nov. 16; v. 280; p. 496.
Turbine, Steam-. C. R. Waller. No. 1,338,409; Apr. 27; v. 273; p. 716.
Turbine, Steam-condensing. E. Mühl. No. 1,346,413; July 13; v. 276; p. 276.
Turbine system. E. W. Swartwout. No. 1,333,140; Mar. 9; v. 272; p. 285.
Turbine-wheel and bucket-mounting. L. A. Darling. No. 1,362,853; Dec. 21; v. 281; p. 469.
Turbines, Attachment of moving blades of elastic-fluid. H. L. Guy. No. 1,347,031; July 20; v. 276; p. 457.
Turbines, Blade for fluid-pressure. K. B. Urmston, H. L. Guy, and J. F. F. Winning. No. 1,347,003; July 20; v. 276; p. 452.
Turbines, Blade or vane for steam-. K. Baumann. No. 1,353,710; Sept. 21; v. 278; p. 487.
Turbines, Compensating axial thrust in multistage. K. Röder. No. 1,347,591; July 27; v. 276; p. 624.
Turbines, Cooling idle-running. F. Ljungström. No. 1,359,902; Nov. 23; v. 280; p. 679.
Turbines, Draft-tube for. H. O. Dahl. No. 1,332,612; Mar. 2; v. 272; p. 84.
Turbines, Gearing for steam or gas. O. A. Wiberg and G. Karlsson. No. 1,337,376; Apr. 20; v. 273; p. 452.
Turbines, Means for regulating hydraulic. P. W. Seewer. No. 1,333,509; Mar. 9; v. 272; p. 304.
Turn-shoe making. A. E. Johnson. No. 1,362,627; Dec. 21; v. 281; p. 425.
Turning irregular forms, Machine for. F. S. Buck. No. 1,330,841; Feb. 17; v. 271; p. 379.
Turning-machine. G. T. Johnson. No. 1,334,305; Mar. 23; v. 272; p. 560.
Turning-machine, Automatic. F. H. Bancroft. No. 1,338,275; Apr. 27; v. 273; p. 691.
Turnbuckle. W. J. Myatt. No. 1,342,130; June 1; v. 275; p. 102.
Turnbuckle and sleeve-nut, Combined. J. H. Lloyd. No. 1,360,421; Nov. 30; v. 280; p. 849.
Turnbuckle-wrench. C. J. Johnson. No. 1,344,800; June 29; v. 275; p. 872.
Turnbutton-fastener. D. Bourque. No. 1,335,363; Mar. 30; v. 272; p. 820.
Turnstile. A. K. Collins. No. 1,342,253; June 1; v. 275; p. 126.
Turnstile. C. D. Trubenbach and D. B. Sanneman. No. 1,339,076; May 4; v. 274; p. 80.
Turntable. A. Corpee and A. Craft. No. 1,354,285; Sept. 28; v. 278; p. 646.
Turntable. R. A. McClure and W. W. Boulton. No. 1,336,362; Apr. 6; v. 273; p. 124.
Turntable. B. E. Viele. No. 1,355,722; Oct. 12; v. 279; p. 303.
Turntable-jack, Automobile. W. J. La Grange. No. 1,336,037; Apr. 6; v. 273; p. 63.
Turntable, Phonograph-. H. G. Saal. No. 1,352,224; Sept. 7; v. 278; p. 98.
Turntable, Portable. O. L. Jones. No. 1,358,748; Nov. 16; v. 280; p. 409.
Turpentine and making same, Substitute for. R. C. Bone. No. 1,343,387; June 15; v. 275; p. 464.
Turpentine substitute. M. Darrin. No. 1,340,600; May 18; v. 274; p. 500.
Turret, Disappearing. S. E. Hitt. No. 1,351,383; Aug. 31; v. 277; p. 868.
Twine-ball. G. L. Rice. No. 1,340,254; May 18; v. 274; p. 434.
Twine-ball. G. L. Rice. No. 1,340,837; May 18; v. 274; p. 544.
Twine-balling machine. F. J. Bullis. No. 1,362,524; Dec. 14; v. 281; p. 353.
Twine-holder. P. G. Fassoulis. No. 1,354,434; Sept. 28; v. 278; p. 676.
Twine-holder. C. W. Hubbard. No. 1,344,274; June 22; v. 275; p. 703.
Twine-holder. J. H. Nicks. No. 1,348,439; Aug. 3; v. 277; p. 61.
Twine, Liquid composition for the treatment of binding-. J. Harshfield. No. 1,347,508; July 27; v. 276; p. 608.
Twine-treating device. E. C. Swartout. No. 1,334,190; Mar. 16; v. 272; p. 492.
Twines, Twisting and winding. W. Scholes. No. 1,363,279; Dec. 28; v. 281; p. 592.
Twist-drill machine. R. W. and J. E. Hudson. No. 1,342,963; June 8; v. 275; p. 318.
Twisting and winding machine. A. J. Kent. No. 1,337,658; Apr. 20; v. 273; p. 505.
Twisting-machine. E. H. Ryon. No. 1,355,852; Oct. 19; v. 279; p. 369.
Twisting-machine. W. F. Smith. No. 1,356,834; Oct. 26; v. 279; p. 608.
Two-compartment ball-mill. J. R. Ball. No. 1,335,269; Mar. 30; v. 272; p. 802.

Digitized by Google

Alphabetical list of inventions—Continued.

Two-cycle engine. C. L. Bowden. No. 1,341,838; June 1; v. 275; p. 44.
Two-cycle engine. W. A. Edwards. No. 1,353,465; Sept. 21; v. 278; p. 437.
Two-cycle engine. W. A. Edwards. No. 1,360,383; Nov. 30; v. 280; p. 842.
Two-cycle engine. J. Knight. No. 1,334,380; Mar. 23; v. 272; p. 575.
Two-cycle gas-engine. A. A. Ruegg. No. 1,330,496; Feb. 10; v. 271; p. 246.
Two-stroke and double-acting motor. M. Leblanc. No. 1,354,571; Oct. 5; v. 279; p. 25.
Two-stroke motor, Multicylinder. M. A. Violet. No. 1,346,069; July 6; v. 276; p. 147.
Twyer. G. Rowley. No. 1,338,700; May 4; v. 274; p. 10.
Twyer and cooling-box. J. P. Dovel. No. 1,354,032; Sept. 28; v. 278; p. 594.
Twyer peek-hole. E. Datka. No. 1,360,191; Nov. 23; v. 280; p. 736.
Tying device. J. W. Dowdle. No. 1,349,503; Aug. 10; v. 277; p. 320.
Tying device. J. E. Gates. No. 1,360,920; Nov. 30; v. 280; p. 946.
Tying device, Letter and package. M. R. Huggins. No. 1,359,383; Nov. 16; v. 280; p. 531.
Tympan-gage. E. J. Washburn. No. 1,354,527; Oct. 5; v. 279; p. 16.
Type and type-bar. C. Karpp. No. 1,359,604; Nov. 23; v. 280; p. 620.
Type and type-distributing mechanism. E. G. Mergenthaler. No. 1,359,518; Nov. 23; v. 280; p. 603.
Type-bar. J. Müller. No. 1,341,574; May 25; v. 274; p. 757.
Type-bar action. C. W. Barnaby. No. 1,334,012; Mar. 16; v. 272; p. 460.
Type-bar-casting machine. N. Arvidsson. No. 1,362,589; Dec. 21; v. 281; p. 417.
Type-bar-making machines, Metal-pot of. A. E. Jeans and P. T. Hayes. No. 1,331,264; Feb. 17; v. 271; p. 458.
Type-bar-making machines, Metal-pot of. A. E. Jeans and P. T. Hayes. No. 1,332,842; Mar. 2; v. 272; p. 127.
Type-bars, Apparatus for casting. H. R. Freund. No. 1,332,824; Mar. 2; v. 272; p. 124.
Type-border, Cylindrical. C. N. Galland. No. 1,331,637; Feb. 24; v. 271; p. 550.
Type, Casting individual printing-. J. S. Bancroft. No. 1,355,880; Oct. 19; v. 279; p. 374.
Type-casting machine. A. Albé. No. 1,352,644; Sept. 14; v. 278; p. 216.
Type-casting machine. J. S. Thompson. No. 1,345,286; June 29; v. 275; p. 965.
Type-casting machine, Semitic. M. C. Indahl. No. 1,356,450; Oct. 19; v. 279; p. 486.
Type-casting machines, Adjustable liner for. G. A. Jones. No. 1,340,831; May 18; v. 274; p. 543.
Type-casting machines, Melting-pot and metal-injecting mechanism for. J. T. Carter. No. 1,346,077; July 6; v. 276; p. 148.
Type-casting machines, Mold for. E. J. Franks. No. 1,364,045; Dec. 28; v. 281; p. 740.
Type compressor, Oscillating-. C. D. Havenstrite. No. 1,346,404; July 13; v. 276; p. 273.
Type condenser, Jet or rain. P. E. Reynolds. No. 1,358,395; Nov. 9; v. 280; p. 293.
Type converter, Vacuum-. W. T. Birdsall. No. 1,355,520; Oct. 12; v. 279; p. 266.
Type-gage. E. J. Washburn. No. 1,354,527; Oct. 5; 279; p. 105.
Type-holder. G. Hoffman. No. 1,343,917; June 22; v. 275; p. 684.
Type-holder. H. R. Linn. No. 1,362,496; Dec. 14; v. 281; p. 348.
Type justifying and composing machine. W. Nicholas and W. Ackerman. No. 1,361,534; Dec. 7; v. 281; p. 113.
Type-metal agitator. G. L. Fort. No. 1,363,402; Dec. 21; v. 281; p. 615.
Type-mold, Multiple-blade. J. S. Bancroft and A. L. Knight. No. 1,328,256; Jan. 20; v. 270; p. 355.
Typesetting-machine. A. Block. No. 1,335,217; Mar. 30; v. 272; p. 793.
Typesetting-machine. G. P. Davis. No. 1,350,707; Aug. 24; v. 277; p. 673.
Typesetting-machines, Magazine for. H. Petersen. No. 1,356,786; Oct. 26; v. 279; p. 599.
Typesetting-machines, Motor-drive for. P. Paris. No. 1,339,667; May 11; v. 274; p. 266.
Typewriter. F. W. Hillard. No. 1,337,977; Apr. 20; v. 273; p. 566.
Typewriter. O. A. Hokanson. No. 1,348,946; Aug. 10; v. 277; p. 210.
Typewriter. N. Lallié. No. 1,329,087; Jan. 27; v. 270; p. 541.
Typewriter. S. A. Reeve. No. 1,358,785; Nov. 16; v. 280; p. 416.
Typewriter and adding-machine collating device. J. A. Wherry. No. 1,336,454; Apr. 13; v. 273; p. 201.
Typewriter attachment. F. L. Deden. No. 1,353,150; Sept. 21; v. 278; p. 375.
Typewriter attachment. F. E. Fanger. No. 1,338,565; Apr. 27; v. 273; p. 745.
Typewriter attachment. R. H. Rawleigh. No. 1,332,004; Feb. 24; v. 271; p. 619.
Typewriter attachment. E. and C. E. Sudler. No. 1,353,939; Sept. 28; v. 278; p. 575.
Typewriter-carriage and parts acting in conjunction therewith. F. W. Hillard. No. 1,356,282; Oct. 19; v. 279; p. 454.
Typewriter-carriage-operating mechanism. J. H. Pillings. No. 1,360,789; Nov. 30; v. 280; p. 921.
Typewriter-carriage return. L. Schneider. No. 1,363,619; Dec. 28; v. 281; p. 658.
Typewriter, Cylindrical. D. Jankower. No. 1,341,131; May 25; v. 274; p. 671.
Typewriter, Disk. D. Jankower. No. 1,337,818; Apr. 20; v. 273; p. 441.
Typewriter, Electric. G. C. Clark. No. 1,355,089; Oct. 5; v. 279; p. 127.
Typewriter, Electrically-operated. E. Hausberg. No. 1,328,736; Jan. 20; v. 270; p. 446.
Typewriter-escapement. L. F. Worden. No. 1,341,350; May 25; v. 274; p. 714.
Typewriter line-indicating device. L. P. Carhart and S. Shaughenessy. No. 1,346,115; July 13; v. 276; p. 217.
Typewriter-machine, Collapsible. P. de Clamecy. No. 1,355,819; Oct. 19; v. 279; p. 362.
Typewriter, Music-. C. Nörther. No. 1,327,840; Jan. 13; v. 270; p. 241.
Typewriter-operating mechanism, Stop mechanism for automatic. J. H. Pillings. No. 1,357,515; Nov. 2; v. 280; p. 59.
Typewriter ribbons, Attachment for refreshing. P. B. Marvin and J. C. Phelan. No. 1,358,646; Nov. 9; v. 280; p. 348.
Typewriter-roller. W. G. Bosworth. No. 1,334,219; Mar. 16; v. 272; p. 498.
Typewriter tabulator device. W. L. White. No. 1,345,467; July 6; v. 276; p. 28.
Typewriter-underscorer. A. E. Lastinger. No. 1,350,029; Aug. 17; v. 277; p. 495.
Typewriter-underscorer. E. M. Sealy. No. 1,349,107; Aug. 10; v. 277; p. 241.
Typewriters, Carriage-return mechanism for. F. C. Breuckman and G. T. Arnold. No. 1,342,940; June 8; v. 275; p. 313.
Typewriters, Check-cutter attachment for. B. H. Thomas. No. 1,362,761; Dec. 21; v. 281; p. 452.
Typewriters, Collating device for. J. A. Wherry. No. 1,351,081; Aug. 31; v. 277; p. 807.
Typewriters, Copyholder for. M. E. Blume. No. 1,345,086; July 6; v. 276; p. 130.
Typewriters, Protective check-writing attachment for. J. W. Paddock. No. 1,332,632; Mar. 2; v. 272; p. 88.
Typewriters, Ribbon-inking attachment for. W. Pain. No. 1,337,980; Apr. 20; v. 273; p. 567.
Typewriting and adding-machine collating device. J. A. Wherry. No. 1,336,453; Apr. 13; v. 273; p. 201.
Typewriting and computing machine. A. A. Johnson. No. 1,332,218; Mar. 2; v. 272; p. 8.
Typewriting and computing machine. H. L. Pitman. No. 1,332,233; Mar. 2; v. 272; p. 11.
Typewriting and computing machine. H. L. Pitman. No. 1,359,270; Nov. 16; v. 280; p. 508.
Typewriting and computing machine, Combined. H. A. Carhart. No. 1,329,367; Feb. 3; v. 271; p. 5.
Typewriting and computing machine, Combined. C. B. Corell. No. 1,346,367; July 13; v. 276; p. 267.
Typewriting and computing machine, Combined. C. B. Corell. No. 1,359,231; Nov. 16; v. 280; p. 500.
Typewriting and computing machine, Combined. G. O. Degener. No. 1,347,621; July 27; v. 276; p. 630.
Typewriting and computing machine, Combined. W. L. Gumprecht. No. 1,338,012; Apr. 27; v. 273; p. 642.
Typewriting and computing machine, Combined. W. L. Gumprecht. No. 1,356,916; Oct. 26; v. 279; p. 624.
Typewriting and computing machine, Combined. F. A. Hart. No. 1,338,014; Apr. 27; v. 273; p. 642.
Typewriting and computing machine, Combined. F. A. Hart. No. 1,339,704; May 11; v. 274; p. 273.
Typewriting and computing machine, Combined. F. A. Hart. No. 1,356,279; Oct. 19; v. 279; p. 453.
Typewriting and computing machine, Combined. F. A. Hart. No. 1,356,525; Oct. 26; v. 279; p. 548.
Typewriting and computing machine, Combined. A. A. Johnson. No. 1,332,342; Mar. 2; v. 272; p. 32.
Typewriting and computing machine, Combined. A. G. Kupetz. No. 1,356,072; Oct. 19; v. 279; p. 412.
Typewriting and computing machine, Combined. C. E. Norin. No. 1,350,173; Aug. 17; v. 277; p. 522.
Typewriting and computing machine, Combined. H. L. Pitman. No. 1,341,995; June 1; v. 275; p. 74.
Typewriting and computing machine, Combined. H. L. Pitman. No. 1,345,102; June 29; v. 275; p. 928.
Typewriting and computing machine, Combined. H. L. Pitman. No. 1,345,460; July 6; v. 276; p. 26.
Typewriting and computing machine, Combined. H. L. Pitman. No. 1,345,877; July 6; v. 276; p. 107.
Typewriting and computing machine, Combined. H. L. Pitman. No. 1,349,386; Aug. 10; v. 277; p. 297.
Typewriting and computing machine, Combined. H. L. Pitman. No. 1,350,387; Aug. 24; v. 277; p. 610.
Typewriting and computing machine, Combined. H. L. Pitman. No. 1,354,778; Oct. 5; v. 279; p. 66.
Typewriting and computing machine, Combined. H. L. Pitman. No. 1,356,886; Oct. 26; v. 279; p. 618.

Digitized by Google

Alphabetical list of inventions—Continued.

Typewriting and computing machine, Combined. H. L. Pitman. No. 1,357,184; Oct. 26; v. 279; p. 676.
Typewriting and computing machine, Combined. H. L. Pitman. No. 1,360,145; Nov. 23; v. 280; p. 727.
Typewriting and computing machine, Combined. H. L. Pitman. No. 1,362,180; Dec. 14; v. 281; p. 286.
Typewriting and computing machine, Combined. A. W. Steiger. No. 1,338,467; Apr. 27; v. 273; p. 727.
Typewriting and computing machine, Combined. B. C. Stickney. No. 1,355,865; Oct. 19; v. 279; p. 371.
Typewriting and computing machine, Combined. B. C. Stickney. No. 1,356,177; Oct. 19; v. 279; p. 433.
Typewriting and computing machine, Combined. B. C. Stickney. No. 1,356,232; Oct. 19; v. 279; p. 444.
Typewriting and computing machine, Combined. J. Waldheim. No. 1,339,993; May 11; v. 274; p. 327.
Typewriting and computing machine, Combined. H. Whiting. No. 1,329,871; Feb. 3; v. 271; p. 99.
Typewriting and computing machine, Combined. W. Wright. No. 1,349,246; Aug. 10; v. 277; p. 269.
Typewriting and computing machine, Combined. W. Wright. No. 1,349,247; Aug. 10; v. 277; p. 270.
Typewriting-machine. J. H. Barr. No. 1,332,875; Mar. 2; v. 272; p. 39.
Typewriting-machine. H. Bates. No. 1,350,000; Aug. 17; v. 277; p. 489.
Typewriting-machine. H. E. Bridgwater. No. 1,342,941; June 8; v. 275; p. 314.
Typewriting-machine. L. S. Burridge. No. 1,339,806; May 11; v. 274; p. 292.
Typewriting-machine. L. S. Burridge. No. 1,351,093; Sept. 7; v. 278; p. 56.
Typewriting-machine. G. W. Campbell. No. 1,332,971; Mar. 9; v. 272; p. 204.
Typewriting-machine. G. W. Campbell. No. 1,332,972; Mar. 9; v. 272; p. 204.
Typewriting-machine. L. G. Casanova. No. 1,362,079; Dec. 14; v. 281; p. 267.
Typewriting-machine. P. de Clamecy. No. 1,355,820; Oct. 19; v. 279; p. 362.
Typewriting-machine. C. B. Corcoran. No. 1,351,327; Aug. 31; v. 277; p. 857.
Typewriting-machine. W. A. Dobson. No. 1,335,956; Apr. 6; v. 273; p. 48.
Typewriting-machine. E. S. Dodge. No. 1,330,063; Feb. 10; v. 271; p. 165.
Typewriting-machine. J. Duckstine. No. 1,348,487; Aug. 3; v. 277; p. 69.
Typewriting-machine. W. Fenton. No. 1,327,908; Jan. 13; v. 270; p. 253.
Typewriting-machine. T. C. Fradsham. No. 1,333,166; Mar. 9; v. 272; p. 240.
Typewriting-machine. F. A. Hart. No. 1,355,395; Oct. 12; v. 279; p. 240.
Typewriting-machine. F. A. Hart. No. 1,357,557; Nov. 2; v. 280; p. 66.
Typewriting-machine. W. F. Helmond. No. 1,328,626; Jan. 20; v. 270; p. 426.
Typewriting-machine. W. F. Helmond. No. 1,354,298; Sept. 28; v. 278; p. 649.
Typewriting-machine. W. F. Helmond. No. 1,360,747; Nov. 30; v. 280; p. 913.
Typewriting-machine. H. K. Henry. No. 1,341,424; May 25; v. 274; p. 728.
Typewriting-machine. C. M. Hilsee. No. 1,331,768; Feb. 24; v. 271; p. 574.
Typewriting-machine. C. M. Hilsee. No. 1,340,542; May 18; v. 274; p. 488.
Typewriting-machine. C. M. Hilsee. No. 1,347,097; July 20; v. 276; p. 470.
Typewriting-machine. J. B. Holden. No. 1,347,632; July 27; v. 276; p. 632.
Typewriting-machine. N. Horn. No. 1,343,509; June 15; v. 275; p. 488.
Typewriting-machine. C. M. M. Houston. No. 1,347,333; July 20; v. 276; p. 517.
Typewriting-machine. N. Kousnetzoff and E. M. Kouzmin. No. 1,328,158; Jan. 13; v. 270; p. 301.
Typewriting-machine. A. G. F. Kurowski. No. 1,330,878; Feb. 17; v. 271; p. 387.
Typewriting-machine. A. G. F. Kurowski. No. 1,332,268; Mar. 2; v. 272; p. 16.
Typewriting-machine. A. G. F. Kurowski. No. 1,340,488; May 18; v. 274; p. 478.
Typewriting-machine. A. G. F. Kurowski. No. 1,340,900; May 25; v. 274; p. 627.
Typewriting-machine. A. G. F. Kurowski. No. 1,345,093; June 29; v. 275; p. 927.
Typewriting-machine. A. G. F. Kurowski. No. 1,349,890; Aug. 17; v. 277; p. 468.
Typewriting-machine. A. G. F. Kurowski. No. 1,351,428; Aug. 31; v. 277; p. 877.
Typewriting-machine. A. G. F. Kurowski. No. 1,356,157; Oct. 19; v. 279; p. 429.
Typewriting-machine. A. G. F. Kurowski. No. 1,356,158; Oct. 19; v. 279; p. 429.
Typewriting-machine. A. G. F. Kurowski. No. 1,356,926; Oct. 26; v. 279; p. 626.
Typewriting-machine. C. S. Labofish. No. 1,342,174; June 1; v. 275; p. 110.
Typewriting-machine. E. G. Latta. No. 1,331,441; Feb. 17; v. 271; p. 492.
Typewriting-machine. E. G. Latta. No. 1,331,442; Feb. 17; v. 271; p. 492.
Typewriting-machine. G. S. Lee. No. 1,357,573; Nov. 2; v. 280; p. 70.
Typewriting-machine. W. A. Lorenz. No. 1,344,304; June 22; v. 275; p. 709.
Typewriting-machine. G. F. Mapes. No. 1,346,605; July 13; v. 276; p. 314.
Typewriting-machine. M. E. Melton. No. 1,333,931; Mar. 16; v. 272; p. 444.
Typewriting-machine. L. F. Messenger. No. 1,362,338; Dec. 14; v. 281; p. 317.
Typewriting-machine. L. F. Messenger. No. 1,363,197; Dec. 21; v. 281; p. 536.
Typewriting-machine. A. F. Moser. No. 1,354,329; Sept. 28; v. 278; p. 655.
Typewriting-machine. H. P. Nordmark. No. 1,337,563; Apr. 20; v. 273; p. 486.
Typewriting-machine. J. E. O'Connor. No. 1,336,151; Apr. 6; v. 273; p. 85.
Typewriting-machine. C. Olivetti. No. 1,356,652; Oct. 26; v. 279; p. 573.
Typewriting-machine. O. Petermann. No. 1,356,825; Oct. 26; v. 279; p. 607.
Typewriting-machine. O. Petermann. No. 1,356,826; Oct. 26; v. 279; p. 607.
Typewriting-machine. J. Phelps. No. 1,346,607; July 13; v. 276; p. 314.
Typewriting-machine. J. Phelps. No. 1,356,827; Oct. 26; v. 279; p. 607.
Typewriting-machine. J. Phelps. No. 1,356,884; Oct. 26; v. 279; p. 618.
Typewriting-machine. E. Pope. No. 1,347,290; July 20; v. 276; p. 508.
Typewriting-machine. P. Roble. No. 1,339,369; May 4; v. 274; p. 133.
Typewriting-machine. C. Schlüns. No. 1,345,510; July 6; v. 276; p. 36.
Typewriting-machine. G. A. Seib. No. 1,342,186; June 1; v. 275; p. 113.
Typewriting-machine. G. A. Seib. No. 1,342,466; June 8; v. 275; p. 220.
Typewriting-machine. G. A. Seib. No. 1,345,894; July 6; v. 276; p. 112.
Typewriting-machine. G. A. Seib. No. 1,361,104; Dec. 7; v. 281; p. 25.
Typewriting-machine. J. E. Simpson. No. 1,346,851; July 20; v. 276; p. 421.
Typewriting-machine. A. W. Smith. No. 1,335,993; Apr. 6; v. 273; p. 55.
Typewriting-machine. A. W. Smith. No. 1,342,513; June 8; v. 275; p. 229.
Typewriting-machine. J. A. B. Smith. No. 1,333,685; Mar. 16; v. 272; p. 399.
Typewriting-machine. J. A. B. Smith. No. 1,349,109; Aug. 10; v. 277; p. 242.
Typewriting-machine. J. A. B. Smith. No. 1,362,544; Dec. 14; v. 281; p. 357.
Typewriting-machine. J. A. B. Smith. No. 1,363,191; Dec. 21; v. 281; p. 535.
Typewriting-machine. J. A. B. Smith. No. 1,363,682; Dec. 28; v. 281; p. 670.
Typewriting-machine. J. Sokolov. No. 1,347,187; July 20; v. 276; p. 487.
Typewriting-machine. B. C. Stickney. No. 1,349,015; Aug. 10; v. 277; p. 223.
Typewriting-machine. B. C. Stickney. No. 1,349,016; Aug. 10; v. 277; p. 223.
Typewriting-machine. B. C. Stickney. No. 1,356,893; Oct. 26; v. 279; p. 620.
Typewriting-machine. B. C. Stickney. No. 1,357,193; Oct. 26; v. 279; p. 678.
Typewriting-machine. B. C. Stickney. No. 1,357,194; Oct. 26; v. 279; p. 678.
Typewriting-machine. B. C. Stickney. No. 1,357,195; Oct. 26; v. 279; p. 678.
Typewriting-machine. B. C. Stickney and A. A. Johnson. No. 1,350,681; Aug. 24; v. 277; p. 668.
Typewriting-machine. E. B. Stuart. No. 1,352,229; Sept. 7; v. 278; p. 99.
Typewriting-machine. E. Thomas and B. C. Stickney. No. 1,351,812; Sept. 7; v. 278; p. 19.
Typewriting-machine. B. W. Tucker. No. 1,351,355; Aug. 31; v. 277; p. 862.
Typewriting-machine. J. Waldheim. No. 1,333,356; Mar. 9; v. 272; p. 276.
Typewriting-machine. J. Waldheim. No. 1,333,690; Mar. 16; v. 272; p. 399.
Typewriting-machine. J. Waldheim. No. 1,333,825; Mar. 16; v. 272; p. 424.
Typewriting-machine. J. Waldheim. No. 1,339,078; May 4; v. 274; p. 80.
Typewriting-machine. J. Waldheim. No. 1,340,469; May 18; v. 274; p. 474.
Typewriting-machine. J. Waldheim. No. 1,340,864; May 18; v. 274; p. 548.
Typewriting-machine. J. Waldheim. No. 1,340,925; May 25; v. 274; p. 631.
Typewriting-machine. J. Waldheim. No. 1,341,028; May 25; v. 274; p. 652.
Typewriting-machine. J. Waldheim. No. 1,349,174; Aug. 10; v. 277; p. 255.
Typewriting-machine. J. Waldheim. No. 1,349,864; Aug. 17; v. 277; p. 463.

Digitized by Google

Alphabetical list of inventions—Continued.

Typewriting-machine. J. Waldheim. No. 1,850,896; Aug. 24; v. 277; p. 613.
Typewriting-machine. J. Waldheim. No. 1,362,204; Dec. 14; v. 281; p. 291.
Typewriting-machine. J. Waldheim. No. 1,362,547; Dec. 14; v. 281; p. 358.
Typewriting-machine. J. Waldheim. No. 1,863,294; Dec. 28; v. 281; p. 585.
Typewriting-machine. L. A. Wernery. No. 1,347,197; July 20; v. 276; p. 483.
Typewriting-machine. J. A. Wherry. No. 1,351,454; Aug. 31; v. 277; p. 882.
Typewriting-machine. W. L. White. No. 1,349,244; Aug. 10; v. 277; p. 269.
Typewriting-machine. O. Woodward. No. 1,342,197; June 1; v. 275; p. 115.
Typewriting-machine. O. Woodward. No. 1,342,489; June 8; v. 275; p. 224.
Typewriting-machine. O. Woodward. No. 1,342,490; June 8; v. 275; p. 224.
Typewriting-machine, Collapsible. P. de Clamecy. No. 1,355,818; Oct. 19; v. 279; p. 362.
Typewriting-machine, Compactible. S. R. De Pue. No. 1,356,812; Oct. 26; v. 279; p. 604.
Typewriting-machine, Compactible. S. R. De Pue. No. 1,356,813; Oct. 26; v. 279; p. 604.
Typewriting-machine for coding and decoding messages. J. C. Grant. No. 1,356,277; Oct. 19; v. 279; p. 453.
Typewriting-machine support. J. A. B. Smith. No. 1,358,033; Nov. 9; v. 280; p. 220.
Typewriting-machines, Calculating attachment for. F. J. Tillman. No. 1,358,263; Nov. 9; v. 280; p. 265.
Typewriting-machines, Copy-holder for. V. Kobler-Stauder. No. 1,330,637; Feb. 10; v. 271; p. 273.
Typewriting-machines, Escapement mechanism for. H. K. Henry. No. 1,362,696; Dec. 21; v. 281; p. 438.
Typewriting-machines, Paper-clamp for. A. A. Zaiss. No. 1,327,075; Jan. 6; v. 270; p. 37.
Typewriting-machines, Pressure-roller for. O. Thieme and F. O. Mueller. No. 1,336,797; Apr. 13; v. 273; p. 267.
Typewriting-machines, Shock-absorbers for. No. 1,350,014; Aug. 17; v. 277; p. 494.
Typewriting-machines, Tabulator mechanism for. N. H. Anderson. No. 1,362,071; Dec. 14; v. 281; p. 265.
Typewriting-machines, Tabulator mechanism for. E. J. Pilblad and A. Tomlinson. No. 1,347,757; July 27; v. 276; p. 658.
Typewritten matter, Trial-sheet for. M. Lichter. No. 1,362,632; Dec. 21; v. 281; p. 426.
Typographic composing-machine. J. S. Bancroft and M. C. Indahl. No. 1,328,257; Jan. 20; v. 270; p. 356.
Typographic matrix and making same. M. C. Indahl. No. 1,363,042; Dec. 21; v. 281; p. 506.
Typographic plate. L. M. Adams. No. 1,346,583; July 13; v. 276; p. 309.
Typographical composing and casting machines, Magazine of. J. E. Billington. No. 1,342,980; June 8; v. 275; p. 321.
Typographical composing-machine. C. L. George and H. Hart. No. 1,351,288; Aug. 31; v. 277; p. 848.
Typographical machine. T. S. Homans. No. 1,338,628; Apr. 27; v. 273; p. 757.
Typographical machine. T. S. Homans. No. 1,352,965; Sept. 14; v. 278; p. 280.
Typographical machine. D. S. Kennedy. No. 1,347,638; July 27; v. 276; p. 633.
Typographical machine. D. S. Kennedy. No. 1,347,744; July 27; v. 276; p. 655.
Typographical machine. D. S. Kennedy. No. 1,347,745; July 27; v. 276; p. 655.
Typographical machine. D. S. Kennedy. No. 1,347,746; July 27; v. 276; p. 656.
Typographical machine. D. S. Kennedy. No. 1,347,747; July 27; v. 276; p. 656.
Typographical machine. D. F. Tracy. No. 1,363,066; Dec. 21; v. 281; p. 511.
Typographical machines, Assembler-entrance for. T. S. Homans. No. 1,331,343; Feb. 17; v. 271; p. 473.
Typographical machines, Casting material for. T. W. Johns. No. 1,340,613; May 18; v. 274; p. 502.
Typographical machines, Channel-entrance for. A. M. Berry. No. 1,349,488; Aug. 10; v. 277; p. 317.
Typographical machines, Distributer for. T. S. Homans. No. 1,334,098; Mar. 16; v. 272; p. 476.
Typographical machines, Magazine for. T. S. Homans. No. 1,338,627; Apr. 27; v. 273; p. 757.
Typographical machines, Matrix for. H. R. Freund. No. 1,328,146; Jan. 13; v. 270; p. 299.
Umbilical-cord tie. J. A. Travis. No. 1,357,128; Oct. 26; v. 279; p. 666.
Umbrella. J. Allesina. No. 1,329,219; Jan. 27; v. 270; p. 566.
Umbrella. G. B. Cannon, Jr., and F. W. Howard. No. 1,356,263; Oct. 19; v. 279; p. 450.
Umbrella. G. B. Cannon, Jr., and F. W. Howard. No. 1,356,264; Oct. 19; v. 279; p. 450.
Umbrella. G. B. Cannon, Jr., and F. W. Howard. No. 1,356,265; Oct. 19; v. 279; p. 451.
Umbrella. R. Esturo. No. 1,353,034; Sept. 14; v. 278; p. 293.
Umbrella. J. A. Hughes and T. E. Herington. No. 1,344,182; June 22; v. 275; p. 675.
Umbrella. P. F. King. No. 1,349,281; Aug. 10; v. 277; p. 276.
Umbrella. C. W. Martin. No. 1,328,175; Jan. 13; v. 270; p. 304.
Umbrella. A. Ryder. No. 1,328,901; Jan. 27; v. 270; p. 507.
Umbrella. A. Ryder. No. 1,328,902; Jan. 27; v. 270; p. 507.
Umbrella and cane, Combination. A. Cleveland. No. 1,340,375; May 18; v. 274; p. 457.
Umbrella and parasol. I. H. Weinberg and C. F. Bisbing. No. 1,352,332; Sept. 7; v. 278; p. 118.
Umbrella attachment. L. B. McKenzie. No. 1,329,915; Feb. 3; v. 271; p. 107.
Umbrella, Folding. A. Gustafson. No. 1,353,284; Sept. 21; v. 278; p. 392.
Umbrella-holder. J. J. Godard. No. 1,347,540; July 27; v. 276; p. 614.
Umbrella name-piece. W. W. Decker. No. 1,346,810; July 20; v. 276; p. 414.
Umbrella or parasol holder. A. E. Pierce. No. 1,344,245; June 22; v. 275; p. 697.
Umbrella-staff. O. J. Himes. No. 1,326,931; Jan. 6; v. 270; p. 9.
Umbrella-tip. S. I. Goldstein. No. 1,336,218; Apr. 6; v. 273; p. 97.
Umbrella-tip. S. I. Goldstein. No. 1,336,219; Apr. 6; v. 273; p. 97.
Umbrella-tip pad. R. J. d'Aquin. No. 1,340,476; May 18; v. 274; p. 476.
Umbrellas, Coin-controlled apparatus for renting. H. C. Williams. No. 1,347,831; July 27; v. 276; p. 672.
Uncoupling device. S. H. Campbell. No. 1,358,362; Nov. 9; v. 280; p. 286.
Uncoupling device. J. W. Steinmeyer. No. 1,354,923; Oct. 5; v. 279; p. 95.
Uncoupling device, Safety. E. Larsson. No. 1,359,715; Nov. 23; v. 280; p. 642.
Uncoupling devices, Bracket for. S. H. Campbell. No. 1,358,363; Nov. 9; v. 280; p. 286.
Unctuous composition of matter for mechanical usages. H. F. Wheelock. No. 1,362,161; Dec. 14; v. 281; p. 283.
Undercutting-machine. A. F. Williams. No. 1,361,215; Dec. 7; v. 281; p. 46.
Underfeed furnace. S. A. Armstrong and A. H. Blackburn. No. 1,333,696; Mar. 16; v. 272; p. 401.
Underfeed furnace. A. H. Blackburn and F. E. Fleming. No. 1,326,906; Jan. 6; v. 270; p. 4.
Underfeed-stoker furnace. J. H. Roach. No. 1,346,465; July 13; v. 276; p. 286.
Underfeed-stoker furnace. J. H. Roach and G. Miller. No. 1,355,269; Oct. 12; v. 279; p. 216.
Undergarment. M. Barrow. No. 1,330,996; Feb. 17; v. 271; p. 410.
Undergarment. E. D. Haight. No. 1,359,802; Nov. 23; v. 280; p. 659.
Undergarment. M. A. Hirsh. No. 1,331,433; Feb. 17; v. 271; p. 490.
Undergarment. P. A. Luckett. No. 1,339,116; May 4; v. 274; p. 88.
Undergarment. H. R. Lyons. No. 1,364,058; Dec. 28; v. 281; p. 742.
Undergarment. H. S. Moses. No. 1,349,976; Aug. 17; v. 277; p. 484.
Undergarment. R. S. Shirley. No. 1,864,002; Dec. 28; v. 281; p. 782.
Undergarment. S. Wright, Jr. No. 1,345,728; July 6; v. 276; p. 79.
Undergarment, Child's. C. E. Ovenshire. No. 1,347,400; July 20; v. 276; p. 529.
Undergarment, Combination-. A. B. Sanders. No. 1,339,070; May 4; v. 274; p. 79.
Undergarment, Lady's. U. R. Boyd. No. 1,337,883; Apr. 20; v. 273; p. 548.
Undergarment, Lady's combination-. A. K. Czechowicz. No. 1,343,038; June 8; v. 275; p. 333.
Undergarment, Union. L. H. Wise. No. 1,361,560; Dec. 7; v. 281; p. 118.
Underreamer. H. E. Brown. No. 1,336,884; Apr. 13; v. 273; p. 284.
Underreamer. W. C. Cutler. No. 1,358,298; Nov. 9; v. 280; p. 273.
Underreamer. W. C. Cutler. No. 1,358,299; Nov. 9; v. 280; p. 273.
Underreamer. W. C. Cutler. No. 1,363,178; Dec. 21; v. 281; p. 532.
Underreamer. C. L. Dunham. No. 1,348,853; Aug. 10; v. 277; p. 192.
Underreamer. F. A. Haugh. No. 1,328,955; Jan. 27; v. 270; p. 517.
Underreamer. C. P. Skinner. No. 1,362,513; Dec. 14; v. 281; p. 351.
Underreamer. W. B. Wigle. No. 1,356,951; Oct. 26; v. 279; p. 631.
Underreamer. W. W. Wilson. No. 1,342,406; June 1; v. 275; p. 155.
Underreamer. E. C. and W. W. Wilson. No. 1,338,345; Apr. 27; v. 273; p. 705.
Underreamer. E. C. and W. W. Wilson. No. 1,344,327; June 22; v. 275; p. 714.
Underreamer. C. S. Wright. No. 1,350,765; Aug. 24; v. 277; p. 684.

Digitized by Google

Underreamer for reaming out producing-sands. A. L. Lambeth. No. 1,353,354; Sept. 21; v. 278; p. 415.
Underskirt. A. R. Starkweather. No. 1,350,848; Aug. 24; v. 277; p. 700.
Undertaker's appliance. M. E. Brennan. No. 1,361,135; Dec. 7; v. 281; p. 31.
Underwear. A. Duvall. No. 1,352,944; Sept. 14; v. 278; p. 275.
Unhairing-machine. C. R. and R. C. Mischke. No. 1,329,793; Feb. 3; v. 271; p. 83.
Union-suit. A. Straub, Jr. No. 1,329,329; Jan. 27; v. 270; p. 585.
Union-suit, Woman's. J. H. Stanley. No. 1,342,188; June 1; v. 275; p. 113.
Union-suits and drawers, Manufacturing. J. P. Weis. No. 1,342,010; June 1; v. 275; p. 78.
Unit construction, System of. T. C. Tyson. No. 1,355,580; Oct. 12; v. 279; p. 276.
Universal coupling. P. A. Fisker. No. 1,331,748; Feb. 24; v. 271; p. 570.
Universal coupling. H. R. Geer. No. 1,357,553; Nov. 2; v. 280; p. 66.
Universal coupling. G. T. Rayfield. No. 1,346,253; July 13; v. 276; p. 244.
Universal die. E. H. Branson. No. 1,340,006; May 11; v. 274; p. 330.
Universal joint. S. G. Baits. No. 1,356,899; Oct. 26; v. 279; p. 621.
Universal joint. J. G. Blunt. No. 1,340,368; May 18; v. 274; p. 455.
Universal joint. L. W. Davis. No. 1,334,439; Mar. 23; v. 272; p. 586.
Universal joint. H. B. Garman and D. V. Buck. No. 1,349,197; Aug. 10; v. 277; p. 259.
Universal joint. H. R. Geer. No. 1,359,354; Nov. 16; v. 280; p. 525.
Universal joint. A. Hohmann. No. 1,355,603; Oct. 12; v. 279; p. 280.
Universal joint. B. J. Hubbard. No. 1,362,000; Dec. 14; v. 281; p. 251.
Universal joint. T. J. Kehoe. No. 1,335,740; Apr. 6; v. 273; p. 7.
Universal joint. J. C. Kopf. No. 1,343,728; June 15; v. 275; p. 531.
Universal joint. J. P. Lavigne. No. 1,331,775; Feb. 24; v. 271; p. 575.
Universal joint. H. E. Leppert. No. 1,358,221; Nov. 9; v. 280; p. 257.
Universal joint. L. H. Mattingly. No. 1,333,988; Mar. 16; v. 272; p. 455.
Universal joint. A. B. Morse. No. 1,344,707; June 29; v. 275; p. 853.
Universal joint. E. G. Orbom. No. 1,335,913; Apr. 6; v. 273; p. 40.
Universal joint. F. W. Peters. No. 1,360,788; Nov. 30; v. 280; p. 921.
Universal joint. F. H. Ream. No. 1,328,449; Jan. 20; v. 270; p. 392.
Universal joint. W. H. Thiemer. No. 1,327,791; Jan. 13; v. 270; p. 232.
Universal joint. W. H. Thiemer. No. 1,336,985; Apr. 13; v. 273; p. 303.
Universal joint. W. H. Thiemer. No. 1,360,818; Nov. 30; v. 280; p. 927.
Universal joint. G. D. Volk. No. 1,358,267; Nov. 9; v. 280; p. 266.
Universal joint. H. L. Washburn. No. 1,346,776; July 13; v. 276; p. 348.
Universal lock and latch. A. J. Schultze. No. 1,352,762; Sept. 14; v. 278; p. 239.
Universal motor. A. F. Welch. No. 1,328,467; Jan. 20; v. 270; p. 396.
Unloader, Hydraulic. G. Waldref. No. 1,339,079; May 4; v. 274; p. 80.
Unloader, Scattering-. A. M. Schadt and M. Griffis. No. 1,332,006; Feb. 24; v. 271; p. 619.
Unloading apparatus. W. Crilly. No. 1,362,832; Dec. 14; v. 281; p. 217.
Unloading mechanism. R. H. Aldrich. No. 1,334,828; Mar. 23; v. 272; p. 660.
Unsheathing and pulverizing machine. C. Field. No. 1,346,119; July 13; v. 276; p. 218.
Unwinding device. S. Rogers. No. 1,348,321; Aug. 3; v. 277; p. 38.
Unwinding device. C. E. Webber. No. 1,332,654; Mar. 2; v. 272; p. 92.
Unwinding device. J. Zervudachi. No. 1,328,777; Jan. 20; v. 270; p. 453.
Upholstering. J. Heitzenreder, Jr. No. 1,353,340; Sept. 21; v. 278; p. 412.
Upholstering. A. T. Reynolds. No. 1,349,629; Aug. 17; v. 277; p. 418.
Upholstering apparatus. L. B. Smith. No. 1,345,268; June 29; v. 275; p. 961.
Upholstering-spring construction. L. A. Young. No. 1,329,874; Feb. 3; v. 271; p. 99.
Upholstery clench-rivets, Tool for applying. J. Ledwinka. No. 1,361,340; Dec. 7; v. 281; p. 72.
Upholstery-fastening means. W. N. Collar. No. 1,340,475; May 18; v. 274; p. 475.
Upholstery-fold. T. G. Paddack. No. 1,339,281; May 4; v. 274; p. 116.
Upholstery material. D. F. Fowler. No. 1,332,549; Mar. 2; v. 272; p. 72.
Upholstery-padding. W. R. Foster. No. 1,331,562; Feb. 24; v. 271; p. 535.
Upholstery slat-support. M. Stadtler. No. 1,346,347; July 13; v. 276; p. 263.
Upholstery-spring construction. L. A. Young. No. 1,329,068; Jan. 27; v. 270; p. 538.
Upholstery-spring construction. L. A. Young. No. 1,338,806; May 4; v. 274; p. 29.
Upper-pulling machine. J. T. Lancaster. No. 1,362,631; Dec. 21; v. 281; p. 426.
Upper-shaping machine. M. Brock. No. 1,361,960; Dec. 14; v. 281; p. 243.
Uppers over lasts, Machine for working. J. H. Hamilton. No. 1,358,149; Nov. 9; v. 280; p. 243.
Urea and intermediate products, Manufacture of. C. Bosch. No. 1,344,673; June 29; v. 275; p. 847.
Urethroscope and like surgical instrument. M. C. Rimmer. No. 1,345,406; July 6; v. 276; p. 16.
Urinal device, Male. W. G. Hill. No. 1,327,042; Jan. 6; v. 270; p. 31.
Urinal, Sanitary. W. G. Hill. No. 1,330,588; Feb. 10; v. 271; p. 263.
Urinals, Apparatus for flushing. D. Newton. No. 1,328,445; Jan. 20; v. 270; p. 391.
Urn, Coffee-. C. Gentle. No. 1,359,355; Nov. 16; v. 280; p. 525.
Urn, Thermos. J. O. Bewan. No. 1,358,355; Nov. 9; v. 280; p. 285.
Utensil, Combination. W. Dietzel. No. 1,353,222; Sept. 21; v. 278; p. 389.
Utensil-cover holder. C. H. Kors. No. 1,350,817; Aug. 24; v. 277; p. 695.
Utensil-cover, Perforated. C. W. Kinsman. No. 1,328,001; Jan. 13; v. 270; p. 271.
Utensil-guard. G. J. Sebald. No. 1,335,761; Apr. 6; v. 273; p. 11.
Utensil-holder. C. Rysiek. No. 1,341,343; May 25; v. 274; p. 713.
V-type motor. T. W. Frech. No. 1,348,859; Aug. 10; v. 277; p. 193.
Vaccine-injector. A. E. Deininger. No. 1,347,622; July 27; v. 276; p. 630.
Vacuum and compressed air brake, Combined. W. V. Turner. No. 1,339,678; May 11; v. 274; p. 268.
Vacuum and return steam-trap. W. E. Tillinghast. No. 1,339,074; May 4; v. 274; p. 79.
Vacuum apparatus. T. McConnell. No. 1,355,679; Oct. 12; v. 279; p. 294.
Vacuum apparatus, Anode for electric. M. Schenkel. No. 1,326,972; Jan. 6; v. 270; p. 18.
Vacuum apparatus, Electrical. M. Schenkel. No. 1,328,597; Jan. 20; v. 270; p. 421.
Vacuum-cleaner. N. C. Fetters and C. R. Richards. No. 1,363,859; Dec. 28; v. 281; p. 705.
Vacuum-cleaner. A. J. Fisher. No. 1,351,032; Aug. 31; v. 277; p. 798.
Vacuum-cleaner. F. L. Leland. No. 1,352,520; Sept. 14; v. 278; p. 191.
Vacuum-cleaner. I. L. Sheffler. (Reissue.) No. 14,786; Jan. 6; v. 270; p. 136.
Vacuum-cleaner. C. W. Stewart. No. 1,336,760; Apr. 13; v. 273; p. 260.
Vacuum-cleaner handle. D. B. Replogle. No. 1,338,791; May 4; v. 274; p. 27.
Vacuum-cleaners, Brush for. W. W. Jackson. No. 1,355,978; Oct. 19; v. 279; p. 393.
Vacuum-cleaners, Dust-collecting receptacle for. M. J. Quinn. No. 1,363,753; Dec. 28; v. 281; p. 684.
Vacuum-cleaners, Pumping mechanism for stationary. P. Heiliger. No. 1,351,210; Aug. 31; v. 277; p. 833.
Vacuum cleaning and other systems, Wall service-bushing for. H. M. Underwood. No. 1,347,236; July 20; v. 276; p. 497.
Vacuum cleaning apparatus. C. W. Barnes. No. 1,336,994; Apr. 13; v. 273; p. 304.
Vacuum cleaning apparatus. E. T. S. Cliffe. No. 1,345,478; July 6; v. 276; p. 30.
Vacuum cleaning apparatus, Driving attachment for. W. H. Kenyon and J. L. Shorrock. No. 1,362,423; Dec. 14; v. 281; p. 334.
Vacuum cleaning-machine. O. A. Kalbfus. No. 1,349,964; Aug. 17; v. 277; p. 482.
Vacuum-container. A. A. Curtis. No. 1,360,728; Nov. 30; v. 280; p. 910.
Vacuum-discharger for lower tensions. A. Faranda. No. 1,354,812; Oct. 5; v. 279; p. 73.
Vacuum-feed mechanism. C. C. Bradbury. No. 1,346,482; July 13; v. 276; p. 289.
Vacuum feeding system. E. A. Rockwell. No. 1,360,026; Nov. 23; v. 280; p. 704.
Vacuum-nozzle for sifting ashes. A. E. Roever. No. 1,355,507; Oct. 12; v. 279; p. 262.
Vacuum-producing and boiler-feeding apparatus, Combined. G. R. Vail. No. 1,332,698; Mar. 2; v. 272; p. 100.
Vacuum-receptacle construction. G. O. Schuls. No. 1,337,278; Apr. 20; v. 273; p. 433.
Vacuum-suction plate. C. N. Reese. No. 1,337,622; Apr. 20; v. 273; p. 498.
Vacuum, System for feeding by means of a. E. A. Rockwell. No. 1,360,027; Nov. 23; v. 280; p. 704.
Vacuum systems, Separator for. H. C. Niemeyer. No. 1,355,617; Oct. 12; v. 279; p. 283.
Vacuum-tank. W. Sparks. No. 1,343,591; June 15; v. 275; p. 504.

Digitized by Google

Vacuum-tank. L. A. Williams. No. 1,349,993; Aug. 17; v. 277; p. 488.
Vacuum-tube circuits, Control means for. R. A. Heising. No. 1,343,562; June 15; v. 275; p. 499.
Vacuum-tube device. H. D. Arnold. No. 1,354,939; Oct. 5; v. 279; p. 98.
Vacuum-type inverted converter. L. W. Chubb. No. 1,347,894; July 27; v. 276; p. 685.
Valuables, Safety device for. M. E. Gruetzmacher. No. 1,350,606; Aug. 24; v. 277; p. 654.
Valve. L. Albertson. No. 1,343,490; June 15; v. 275; p. 484.
Valve. S. B. Arnold. No. 1,347,488; July 27; v. 276; p. 603.
Valve. J. Astrom. No. 1,349,253; Aug. 10; v. 277; p. 271.
Valve. W. A. Atteberry. No. 1,346,737; July 13; v. 276; p. 340.
Valve. G. S. Barker. No. 1,328,780; Jan. 20; v. 270; p. 454.
Valve. H. J. Bery. No. 1,334,073; Mar. 16; v. 272; p. 471.
Valve. J. F. Bloom. No. 1,329,881; Feb. 3; v. 271; p. 101.
Valve. J. C. Breinl. No. 1,349,145; Aug. 10; v. 277; p. 240.
Valve. A. P. Brush. No. 1,354,019; Sept. 28; v. 278; p. 592.
Valve. R. E. Campbell. No. 1,327,984; Jan. 13; v. 270; p. 267.
Valve. R. E. Campbell. No. 1,330,429; Feb. 10; v. 271; p. 284.
Valve. A. L. Cheek. No. 1,362,526; Dec. 14; v. 281; p. 354.
Valve. G. S. Coffin. No. 1,341,544; May 25; v. 274; p. 751.
Valve. S. J. Connell. No. 1,348,088; July 27; v. 276; p. 724.
Valve. J. Coxon. No. 1,356,130; Oct. 19; v. 279; p. 424.
Valve. C. F. Crommett. No. 1,353,321; Sept. 21; v. 278; p. 409.
Valve. H. N. Cupp. No. 1,349,605; Aug. 17; v. 277; p. 413.
Valve. J. R. Doyle. No. 1,338,562; Apr. 27; v. 278; p. 745.
Valve. P. Eckenroth. No. 1,357,767; Nov. 2; v. 280; p. 108.
Valve. I. G. Engle. No. 1,329,231; Jan. 27; v. 270; p. 569.
Valve. W. M. Fleming. No. 1,328,274; Jan. 20; v. 270; p. 359.
Valve. J. L. Foister. No. 1,339,750; May 11; v. 274; p. 282.
Valve. N. H. Fooks. No. 1,327,540; Jan. 6; v. 270; p. 123.
Valve. F. Franke. No. 1,353,037; Sept. 14; v. 278; p. 294.
Valve. H. J. Gebhardt. No. 1,342,955; June 8; v. 275; p. 316.
Valve. R. C. Gorham. No. 1,355,141; Oct. 12; v. 279; p. 189.
Valve. P. J. Griffin. No. 1,331,194; Feb. 17; v. 271; p. 446.
Valve. S. A. Gritzner. No. 1,368,248; Dec. 28; v. 281; p. 587.
Valve. I. C. Havens. No. 1,360,306; Nov. 30; v. 280; p. 844.
Valve. G. W. Heald. No. 1,346,887; July 20; v. 276; p. 429.
Valve. P. D. Hibner. No. 1,361,581; Dec. 7; v. 281; p. 122.
Valve. O. M. Jones. No. 1,364,059; Dec. 28; v. 281; p. 742.
Valve. O. M. Jones. No. 1,364,060; Dec. 28; v. 281; p. 743.
Valve. O. M. Jones. No. 1,364,062; Dec. 28; v. 281; p. 743.
Valve. A. S. Kellam and N. F. Norvell. No. 1,352,900; Sept. 14; v. 278; p. 267.
Valve. C. H. King. No. 1,340,719; May 18; v. 274; p. 522.
Valve. F. E. Kling. No. 1,334,248; Mar. 16; v. 272; p. 503.
Valve. J. B. Knudsen. No. 1,326,938; Jan. 6; v. 270; p. 11.
Valve. S. Korkosz. No. 1,331,439; Feb. 17; v. 271; p. 491.
Valve. H. P. Kraft. No. 1,329,776; Feb. 3; v. 271; p. 80.
Valve. P. Kudla. No. 1,360,960; Nov. 30; v. 280; p. 954
Valve. C. W. Larner. No. 1,339,114; May 4; v. 274; p. 87.
Valve. W. Le Francois. No. 1,345,682; July 6; v. 276; p. 69.
Valve. Z. Littman. No. 1,359,183; Nov. 16; v. 280; p. 491.
Valve. W. S. Livengood. No. 1,351,109; Aug. 31; v. 277; p. 812.
Valve. F. v. D. Longacre. No. 1,354,318; Sept. 28; v. 278; p. 653.
Valve. F. Lowry. No. 1,334,870; Mar. 23; v. 272; p. 668.
Valve. G. B. McCracken. No. 1,333,623; Mar. 16; v. 272; p. 386.
Valve. G. F. McDougall. No. 1,327,564; Jan. 6; v. 270; p. 128.
Valve. A. McGregor. No. 1,356,298; Oct. 19; v. 279; p. 457.
Valve. A. McKibbin. No. 1,345,382; July 6; v. 276; p. 11.
Valve. D. M. McLaughlin. No. 1,359,187; Nov. 16; v. 280; p. 492.
Valve. R. B. Maness. No. 1,333,866; Mar. 16; v. 272; p. 432.
Valve. E. C. Marulli. No. 1,337,462; Apr. 20; v. 273; p. 467.
Valve. L. Maschek and C. B. Higgins. No. 1,351,259; Aug. 31; v. 277; p. 842.
Valve. L. Metesser. No. 1,345,686; July 6; v. 276; p. 70.
Valve. E. Montague. No. 1,345,548; July 6; v. 276; p. 44.
Valve. W. G. Morris. No. 1,328,009; Jan. 13; v. 270; p. 272.
Valve. D. R. Murphy. No. 1,346,968; July 20; v. 276; p. 445.
Valve. R. W. Murray. No. 1,341,146; May 25; v. 274; p. 674.
Valve. C. M. Nell. No. 1,352,469; Sept. 14; v. 278; p. 180.
Valve. H. F. Niles. No. 1,338,838; May 4; v. 274; p. 35.
Valve. O. G. Olsen. No. 1,341,151; May 25; v. 274; p. 675.
Valve. J. M. Palmer. No. 1,328,098; Jan. 13; v. 270; p. 289.
Valve. H. E. Popp. No. 1,355,426; Oct. 12; v. 279; p. 245.
Valve. W. C. Renkin. No. 1,329,016; Jan. 27; v. 270; p. 528.
Valve. M. S. Roby. No. 1,345,248; June 29; v. 275; p. 957.
Valve. A. E. Shackleford and G. A. Franklin. No. 1,350,040; Aug. 17; v. 277; p. 497.
Valve. G. R. Shanklin. No. 1,357,595; Nov. 2; v. 280; p. 74.
Valve. W. A. Shimp. No. 1,338,705; May 4; v. 274; p. 11.
Valve. W. A. Shimp. No. 1,354,582; Oct. 5; v. 279; p. 27.
Valve. W. A. Smith. No. 1,352,036; Sept. 7; v. 278; p. 63.
Valve. M. M. Spaulding. No. 1,332,639; Mar. 2; v. 272; p. 89.
Valve. I. H. Spencer. No. 1,329,099; Jan. 27; v. 270; p. 544.
Valve. J. A. Steinmetz. No. 1,334,566; Mar. 23; v. 272; p. 610.
Valve. H. B. Taylor and C. W. Larner. No. 1,356,238; Oct. 19; v. 279; p. 445.
Valve. G. W. Thompson. No. 1,339,798; May 11; v. 274; p. 290.
Valve. E. L. Towle. No. 1,355,367; Oct. 12; v. 279; p. 235.
Valve. W. Turnwald. No. 1,332,582; Mar. 2; v. 272; p. 78.
Valve. J. Van Brunt. No. 1,345,518; July 6; v. 276; p. 37.
Valve. G. A. Vis. No. 1,344,364; June 22; v. 275; p. 721.
Valve. J. Volckhausen. No. 1,341,828; June 1; v. 275; p. 43.
Valve. W. H. Washburne. No. 1,338,759; May 4; v. 274; p. 21.
Valve. W. Webster. No. 1,333,048; Mar. 9; v. 272; p. 218.
Valve. L. G. Wilbur. No. 1,346,289; July 13; v. 276; p. 252.
Valve-actuating mechanism. W. E. Ellis. No. 1,346,401; July 13; v. 276; p. 273.
Valve-adjuster. F. H. Sharar. No. 1,343,525; June 15; v. 275; p. 491.
Valve adjuster and silencer. F. E. Cline. No. 1,333,160; Mar. 9; v. 272; p. 238.
Valve, Air-. A. Forster and J. H. Brown. No. 1,328,951; Jan. 27; v. 270; p. 516.
Valve, Air-. W. C. Mead. No. 1,351,780; Sept. 7; v. 278; p. 12.
Valve, Air-. G. F. Muth. No. 1,348,123; July 27; v. 276; p. 730.
Valve, Air and gas. A. and W. Otto. No. 1,339,665; May 11; v. 274; p. 266.
Valve and appurtenance, Flush-tank. P. M. English. No. 1,348,700; Aug. 3; v. 277; p. 127.
Valve and connections. W. A. Harper. No. 1,355,964; Oct. 19; v. 279; p. 390.
Valve and cooling means. A. O. Dady. No. 1,332,865; Mar. 2; v. 272; p. 131.
Valve and deflector of ventilating apparatus. T. Neilson. No. 1,343,576; June 15; v. 275; p. 501.
Valve and grinding mechanism therefor. H. C. Brown. No. 1,361,790; Dec. 7; v. 281; p. 162.
Valve and means for cooling same. A. O. Dady. No. 1,345,535; July 6; v. 276; p. 41.
Valve and retainer therefor. J. E. Blackmore. No. 1,357,608; Nov. 2; v. 280; p. 77.
Valve attachment, Engine. B. H. Kessler. No. 1,336,237; Apr. 6; v. 273; p. 101.
Valve, Automatic. O. Maass. No. 1,348,505; Aug. 3; v. 277; p. 73.

Digitized by Google

Valve, Automatic. F. K. Reibin. No. 1,332,997; Mar. 9; v. 272; p. 209.
Valve, Automatic. E. S. Teed. No. 1,359,631; Nov. 23; v. 280; p. 625.
Valve, Automatic. E. Terry. No. 1,346,921; July 20; v. 276; p. 435.
Valve, Automatic alarm-. E. A. Cahill. No. 1,356,598; Oct. 26; v. 279; p. 562.
Valve, Automatic blower-. C. E. Belk. No. 1,359,317; Nov. 16; v. 280; p. 518.
Valve, Automatic-control. J. M. Cammack. No. 1,350,065; Aug. 17; v. 277; p. 502.
Valve, Automatic drain-. T. W. Demarest. No. 1,343,550; June 15; v. 275; p. 496.
Valve, Automatic drain and pressure-relief. J. E. Armstrong. No. 1,343,382; June 15; v. 275; p. 463.
Valve, Automatic dry-pipe. S. E. Campbell. No. 1,359,327; Nov. 6; v. 280; p. 520.
Valve, Automatic expansion-. W. S. Stair. No. 1,341,766; June 1; v. 275; p. 31.
Valve, Automatic flush-. J. McNeil. No. 1,355,988; Oct. 19; v. 279; p. 395.
Valve, Automatic plate-. R. Meyer. No. 1,341,145; May 25; v. 274; p. 674.
Valve, Automatic ring-plate. J. H. H. Voss. No. 1,343,534; June 15; v. 275; p. 493.
Valve, Automatic safety gas-. D. C. Carver. No. 1,346,000; July 6; v. 276; p. 133.
Valve, Automatic trough-. F. Striegler. No. 1,347,353; July 20; v. 276; p. 521.
Valve, Auxiliary air-. H. Leithner. No. 1,359,079; Nov. 16; v. 280; p. 472.
Valve, Auxiliary air-. W. E. Sims. No. 1,327,494; Jan. 6; v. 270; p. 114.
Valve, Auxiliary air-inlet. H. D. Judkins. No. 1,329,608; Feb. 3; v. 271; p. 49.
Valve, Back-pressure and relief. F. Henneböhle. No. 1,344,300; June 22; v. 275; p. 708.
Valve-bag. M. C. Rose. No. 1,356,114; Oct. 19; v. 279; p. 420.
Valve, Balanced piston-. G. W. Baker and G. Williams. No. 1,343,105; June 8; v. 275; p. 346.
Valve, Balanced slide-. R. Hiatt. No. 1,363,872; Dec. 28; v. 281; p. 707.
Valve, Balloon-. J. R. Gammeter. No. 1,340,335; Aug. 10; v. 277; p. 287.
Valve, Blow-off. J. F. Mattern and G. M. Stoner. No. 1,358,968; Nov. 16; v. 280; p. 452.
Valve-body seats, Apparatus for reseating. J. Salminen. No. 1,355,700; Oct. 12; v. 279; p. 298.
Valve-body, Shower. J. Fraser. No. 1,330,441; Feb. 10; v. 271; p. 236.
Valve, Boiler blow-off. C. C. O'Neil. No. 1,340,790; May 18; v. 274; p. 585.
Valve, Bottle-. G. Jackson. No. 1,348,116; July 27; v. 276; p. 729.
Valve, Box plate-. C. Wainwright. No. 1,334,197; Mar. 16; v. 272; p. 494.
Valve, Brake-pipe. A. G. Shaver. No. 1,339,720; May 11; v. 274; p. 276.
Valve, Brine-. H. Ackroyd. No. 1,343,072; June 8; v. 275; p. 340.
Valve-cap. E. E. Holt. No. 1,329,182; Jan. 27; v. 270; p. 560.
Valve-cap. D. W. Mannhardt. No. 1,349,522; Aug. 10; v. 277; p. 324.
Valve-cap. F. Rasmussen. No. 1,355,359; Oct. 12; v. 279; p. 233.
Valve-cap. H. W. Saunders. No. 1,357,906; Nov. 2; v. 280; p. 134.
Valve-cap. W. H. West. No. 1,353,878; Sept. 28; v. 278; p. 563.
Valve-cap and pressure-indicator. C. T. Nuss. No. 1,361,285; Dec. 7; v. 281; p. 60.
Valve, Carbureter control-. W. A. Heide. No. 1,356,360; Oct. 19; v. 279; p. 469.
Valve, Carbureter-needle. V. E. Wasserlein. No. 1,347,922; July 27; v. 276; p. 690.
Valve-casings for wind-musical-instrument valves, Die for making. E. J. Gulick. No. 1,345,921; July 6; v. 276; p. 117.
Valve, Cast-puppet. F. Hilty. No. 1,347,542; July 27; v. 276; p. 614.
Valve-casting machine, Centrifugal. F. Hilty. No. 1,329,179; Jan. 27; v. 270; p. 559.
Valve-changing means. A. B. Edwards, C. A. Turner, and T. L. Reed. No. 1,353,114; Sept. 14; v. 278; p. 308.
Valve, Check-. E. S. Church. No. 1,339,101; May 4; v. 274; p. 85.
Valve, Check-. H. O. Jackson. (Reissue.) No. 14,943; Aug. 31; v. 277; p. 935.
Valve-chest. L. H. Duncan. No. 1,340,652; May 18; v. 274; p. 509.
Valve-chest. B. R. Van Valkenburg. No. 1,328,796; Jan. 20; v. 270; p. 457.
Valve, Choke-. D. L. Winters. No. 1,347,199; July 20; v. 276; p. 489.
Valve, Closet flush-. E. G. Stoltz. No. 1,335,763; Apr. 6; v. 273; p. 11.
Valve, Combined by-pass and relief. E. B. Whelan. No. 1,353,296; Sept. 21; v. 278; p. 404.
Valve construction. D. H. Francis. No. 1,340,481; May 18; v. 274; p. 477.
Valve construction. C. T. Wade. No. 1,357,660; Nov. 2; v. 280; p. 75.
Valve construction, Plate-. J. G. Keller. No. 1,350,101; Aug. 17; v. 277; p. 508.
Valve, Control. P. Mojico. No. 1,358,282; Nov. 9; v. 280; p. 259.
Valve control and releasing device. R. F. Landis. No. 1,336,084; Apr. 6; v. 273; p. 72.
Valve-control mechanism. E. G. Smith. No. 1,347,800; July 20; v. 276; p. 510.
Valve-control mechanism. T. W. Stone. No. 1,353,977; Sept. 28; v. 278; p. 583.
Valve control mechanism, Steam-feed-. D. Vanzile. No. 1,348,607; Aug. 3; v. 277; p. 93.
Valve-control system. W. G. Ferguson. No. 1,336,515; Apr. 13; v. 273; p. 212.
Valve-controlled coupling. J. T. H. Paterson. No. 1,331,720; Feb. 24; v. 271; p. 565.
Valve-controlling device. R. J. Grigsby. No. 1,344,688; June 29; v. 275; p. 839.
Valve-controlling means, Automatic. H. H. Lee. No. 1,348,016; July 27; v. 276; p. 709.
Valve-controlling mechanism. H. H. Mercer. No. 1,355,768; Oct. 12; v. 279; p. 312.
Valve cut-off, Automatic. E. W. Snyder. No. 1,354,426; Sept. 28; v. 278; p. 674.
Valve, Cut-out. K. J. Johnson. No. 1,331,960; Feb. 24; v. 271; p. 610.
Valve, Cylinder relief-. V. P. McVoy. No. 1,361,788; Dec. 7; v. 281; p. 152.
Valve device. J. McGillivray. No. 1,342,900; June 8; v. 275; p. 306.
Valve device. A. Pfau. No. 1,332,000; Feb. 24; v. 271; p. 618.
Valve device. A. E. L. Seanes. No. 1,347,411; July 20; v. 276; p. 532.
Valve device, Brake-. T. H. Thomas. No. 1,355,188; Oct. 12; v. 279; p. 200.
Valve, Diaphragm check-. S. G. Neal. No. 1,328,886; Jan. 27; v. 270; p. 504.
Valve diaphragm, Compressed-air-. I. Stokke. No. 1,353,290; Sept. 21; v. 278; p. 402.
Valve, Dispensing-. C. P. Bossert. No. 1,358,280; Nov. 9; v. 280; p. 269.
Valve, Drainage and relief. A. P. Hansen. No. 1,359,988; Nov. 23; v. 280; p. 696.
Valve-drawing mechanism. P. P. Dean. No. 1,330,790; Feb. 17; v. 271; p. 369.
Valve, Drifting and by-pass. C. D. Hilferty. No. 1,351,168; Aug. 31; v. 277; p. 824.
Valve, Dry-pipe. E. E. Clark. No. 1,344,380; June 22; v. 275; p. 724.
Valve, Dry-pipe. E. E. Clark. No. 1,348,981; Aug. 10; v. 277; p. 216.
Valve, Dry-pipe. P. Evans, A. C. Rowley, and C. B. Garrett. No. 1,334,847; Mar. 23; v. 272; p. 663.
Valve, Dry-pipe. A. C. Rowley. No. 1,331,383; Feb. 17; v. 271; p. 481.
Valve, Dust-. S. J. Speicher. No. 1,339,005; May 4; v. 274; p. 66.
Valve, Dust-cap. H. G. Slater. No. 1,329,146; Jan. 27; v. 270; p. 553.
Valve, Elbow check-. H. J. and W. R. Woock. No. 1,341,870; June 1; v. 275; p. 51.
Valve, Electroionic. E. R. Stoekle. No. 1,340,575; May 18; v. 274; p. 495.
Valve, Engine-. W. C. Davids. No. 1,363,398; Dec. 28; v. 281; p. 614.
Valve, Engine-. B. R. Nyhagen. No. 1,330,649; Feb. 10; v. 271; p. 275.
Valve, Engine-. A. C. Sinclair. No. 1,363,363; Dec. 28; v. 281; p. 608.
Valve, Engine drifting-. V. P. McVoy. No. 1,361,737; Dec. 7; v. 281; p. 152.
Valve, Engineer's brake-. J. W. Bingley. No. 1,353,375; Sept. 21; v. 278; p. 419.
Valve-extractor. E. T. Liess. No. 1,350,163; Aug. 17; v. 277; p. 520.
Valve, Filler-. A. Folchen. No. 1,361,418; Dec. 7; v. 281; p. 88.
Valve, Float-. C. L. Craig. No. 1,349,267; Aug. 10; v. 277; p. 274.
Valve, Float-. W. J. Greb. No. 1,355,663; Oct. 12; v. 279; p. 291.
Valve, Float-. L. G. Wilson. No. 1,340,999; May 25; v. 274; p. 646.
Valve, Fluid-pressure. J. Davidson. No. 1,350,438; Aug. 24; v. 277; p. 621.
Valve, Flush-. G. W. Foster. No. 1,329,169; Jan. 27; v. 270; p. 557.
Valve, Flush-. E. Glennon. No. 1,345,920; July 6; v. 276; p. 117.
Valve, Flush-. E. L. Kellan. No. 1,337,177; Apr. 13; v. 273; p. 339.
Valve, Flush-. A. N. Pasman. No. 1,348,662; Aug. 3; v. 277; p. 104.
Valve, Flush-tank. E. L. Delany. No. 1,334,136; Mar. 16; v. 272; p. 483.
Valve, Flush-tank. B. F. Hardt. No. 1,359,593; Nov. 23; v. 280; p. 618.
Valve, Flushing-. A. A. Carson. No. 1,329,109; Jan. 27; v. 270; p. 546.

Digitized by Google

Alphabetical list of inventions—Continued.

Valve, Flushing-. W. F. Knell. No. 1,338,638; Apr. 27; v. 273; p. 759.
Valve, Flushing-. J. M. Wright and J. F. Davis. No. 1,331,137; Feb. 17; v. 271; p. 436.
Valve-flushing means. W. J. Coulson. No. 1,338,907; May 4; v. 274; p. 47.
Valve, Foot-operated. P. A. Riccio. No. 1,329,209; Jan. 27; v. 270; p. 564.
Valve for acetylene-gas generators, Carbid controlling and dumping. F. A. Webb. No. 1,334,805; Apr. 20; v. 273; p. 532.
Valve for blowing-engines. C. Frech. No. 1,326,923; Jan. 6; v. 270; p. 8;
Valve for chambered heat-insulating walls. J. J. Mendenhall. No. 1,337,611; Apr. 20; v. 273; p. 496.
Valve for compressors, Control. F. J. Heldeman. No. 1,356,205; Oct. 19; v. 279; p. 439.
Valve for drill-feeding means, Regulating. H. I. Stage. No. 1,361,636; Dec. 7; v. 281; p. 132.
Valve for fluid-compressors. C. B. Van Horn. No. 1,361,933; Dec. 14; v. 281; p. 237.
Valve for fluid-pressure systems, Stop-. J. Hansson and M. L. Branson. No. 1,360,993; Nov. 30; v. 280; p. 961.
Valve for fluid-pressure tools, Throttle-. H. J. Kimman. No. 1,350,102; Aug. 17; v. 277; p. 508.
Valve for funnels, Automatic. T. L. Kaufman. No. 1,341,563; May 25; v. 274; p. 755.
Valve for gas-engines, Automatic air-. D. E. O'Malley. No. 1,361,771; Dec. 7; v. 281; p. 158.
Valve for gas-generators. J. Levey. No. 1,363,047; Dec. 21; v. 281; p. 507.
Valve for high-pressure-fluid containers. R. J. J. Mueller. No. 1,345,388; July 6; v. 276; p. 12.
Valve for high-pressure tanks, Stemless self-closing. E. E. Garland. No. 1,348,708; Aug. 3; v. 277; p. 112.
Valve for multiple fuel-supply pipes, Controlling-. A. J. Paulson. No. 1,327,252; Jan. 6; v. 270; p. 70.
Valve for percussive tools. W. A. Smith. No. 1,343,649; June 15; v. 275; p. 516.
Valve for pneumatic tools. W. S. Whyte. No. 1,343,951; June 22; v. 275; p. 641.
Valve for pressure-cookers, Safety-. W. C. Ferris. No. 1,328,653; Jan. 20; v. 270; p. 431.
Valve for refrigerating apparatus, Control-. G. L. E. Kothny. No. 1,343,975; June 22; v. 275; p. 645.
Valve for sprinkler systems, Air-relief. F. Ecks. No. 1,326,922; Jan. 6; v. 270; p. 7.
Valve for steam-heated water-supply systems, Mixing-. P. S. Hanton. No. 1,327,235; Jan. 6; v. 270; p. 67.
Valve, Fuel-. F. G. Slonek. No. 1,346,267; July 13; v. 276; p. 247.
Valve, Gas-. G. D. Bradshaw. No. 1,342,620; June 8; v. 275; p. 249.
Valve, Gas-. J. A. Hoff. No. 1,361,059; Dec. 7; v. 281; p. 16.
Valve, Gas-. S. G. Malby. No. 1,328,578; Jan. 20; v. 270; p. 417.
Valve, Gate-. H. A. Moody. No. 1,328,752; Jan. 20; v. 270; p. 449.
Valve, Gate-. O. L. Whiteman. No. 1,360,164; Nov. 23; v. 280; p. 731.
Valve, Gate-. H. L. Wittstein. No. 1,340,591; May 18; v. 274; p. 498.
Valve-gear. A. B. Boettcher. No. 1,356,506; Oct. 19; v. 279; p. 496.
Valve-gear, Reversing. W. E. Brown. No. 1,336,344; Apr. 6; v. 273; p. 121.
Valve-gear, Steam-engine. C. F. Prescott. No. 1,340,405; May 18; v. 274; p. 462.
Valve-gears, Lead control for. C. T. Hardman. No. 1,360,942; Nov. 30; v. 280; p. 950.
Valve, Globe-. W. H. Johnson. No. 1,346,210; July 13; v. 276; p. 235.
Valve, Governor-controlled throttle. W. Turnbull. No. 1,344,362; June 22; v. 275; p. 721.
Valve-grinder. C. Dahlstedt. No. 1,338,212; Apr. 27; v. 273; p. 680
Valve-grinder. W. L. Dinsmoor. No. 1,340,756; May 18; v. 274; p. 528.
Valve-grinder. D. F. Dunham. No. 1,342,375; June 1; v. 275; p. 148.
Valve-grinder. E. M. Huston. No. 1,341,984; June 1; v. 275; p. 73.
Valve-grinder. L. Merritt. No. 1,335,979; Apr. 6; v. 273; p. 52.
Valve-grinder. J. Ralston. No. 1,346,420; July 13; v. 276; p. 277.
Valve-grinder. H. M. Rand. No. 1,328,197; Jan. 13; v. 270; p. 308.
Valve-grinder. D. A. Runnion. No. 1,336,863; Apr. 13; v. 273; p. 280.
Valve-grinder. R. A. Shantz. No. 1,352,840; Sept. 14; v. 278; p. 255.
Valve-grinder. H. A. Wright. No. 1,340,001; May 25; v. 274; p. 647.
Valve-grinder cap. C. D. Rosecrans. No. 1,334,797; Mar. 23; v. 272; p. 654.
Valve-grinder and breast-drill, Combination. I. Rosenberg. No. 1,352,476; Sept. 14; v. 278; p. 182.
Valve-grinding apparatus. G. Boring. No. 1,362,469; Dec. 14; v. 281; p. 342.
Valve-grinding device. C. Ruiz. No. 1,333,100; Mar 9; v. 272; p. 228.
Valve-grinding machine. W. F. Branning. No. 1,361,184; Dec. 7; v. 281; p. 80.
Valve-grinding machine. A. C. Mork. No. 1,327,875; Jan. 13; v. 270; p. 247.
Valve-grinding, Valve-spring support for. G. W. Fleming. No. 1,360,515; Nov. 30; v. 280; p. 868.
Valve-guard. D. D. Morris. No. 1,332,513; Mar. 2; v. 272; p. 65.
Valve-handle. E. C. Holton. No. 1,354,106; Sept. 28; v. 278; p. 610.
Valve-handle. W. S. Neil. No. 1,343,086; June 8; v. 275; p. 342.
Valve, High-pressure. R. Vuilleumier. No. 1,360,833; Nov. 30; v. 280; p. 930.
Valve, Hydrocarbon-engine. R. M. Hvid. No. 1,346,204; July 13; v. 276; p. 234.
Valve in head-motors, Rocker-arm for. W. S. Lee. No. 1,362,709; Dec. 21; v. 281; p. 441.
Valve, Inlet or check. F. L. Henig. No. 1,342,216; June 1; v. 275; p. 119.
Valve, Inlet or check. F. L. Henig. No. 1,530,610; Aug. 24; v. 277; p. 655.
Valve, Irrigation-. E. M. Spiekerman. No. 1,332,692; Mar. 2; v. 272; p. 99.
Valve-lifter. E. L. Beardsley. No. 1,327,015; Jan. 6; v. 270; p. 26.
Valve-lifter. J. Corsi. No. 1,336,202; Apr. 6; v. 273; p. 94.
Valve-lifter. G. Dellman. No. 1,356,194; Oct. 19; v. 279; p. 437.
Valve-lifter. L. A. Erickson. No. 1,359,678; Nov. 23; v. 280; p. 634.
Valve-lifter. N. L. Graves. No. 1,356,978; Oct. 26; v. 279; p. 637.
Valve-lifter. J. Kister. No. 1,357,097; Oct. 26; v. 279; p. 660.
Valve-lifter. H. Kvindlog and C. O. Wotring. No. 1,332,128; Feb. 24; v. 271; p. 641.
Valve-lifter. O. Nelson. No. 1,348,658; Aug. 3; v. 277; p. 103.
Valve-lifter. A. E. Stafford and J. W. Unger. No. 1,355,432; Oct. 12; v. 279; p. 247.
Valve-lifter. J. H. Vonada. No. 1,330,924; Feb. 17; v. 271; p. 396.
Valve-lifter. W. F. Webb. No. 1,331,602; Feb. 24; v. 271; p. 543.
Valve-lifter. G. J. White. No. 1,361,427; Dec. 7; v. 281; p. 90.
Valve-lifter. E. F. Wilkinson, Jr. No. 1,331,305; Feb. 17; v. 271; p. 466.
Valve-lifter and hand-vise, Combined. P. P. Hinckley. No. 1,350,803; Aug. 24; v. 277; p. 692.
Valve lifter, Auto-. E. E. Harris. No. 1,343,130; June 8; v. 275; p. 351.
Valve lifter, Engine-. A. Willis. No. 1,333,358; Mar. 9; v. 272; p. 276.
Valve lifter, Overhead-. D. Vaughan. No. 1,340,192; May 18; v. 274; p. 422.
Valve-lifter, Self-adjusting. E. F. Fisher. No. 1,353,998; Sept. 28; v. 278; p. 586.
Valve-lifting device. E. Feindel. No. 1,329,518; Feb. 3; v. 271; p. 33.
Valve, Liquid-seal check-. W. M. Hughes. No. 1,362,535; Dec. 14; v. 281; p. 356.
Valve-lock. J. D. Farmer. No. 1,338,912; May 4; v. 274; p. 48.
Valve-lock. J. M. McDonald. No. 1,349,139; Aug. 10; v. 277; p. 247.
Valve-lock. L. Peters. No. 1,339,412; May 11; v. 274; p. 217.
Valve-lock, Automobile. J. F. Koebel. No. 1,348,364; Aug. 3; v. 277; p. 46.
Valve lock, Gate-. L. B. Madrin. No. 1,354,322; Sept. 28; v. 278; p. 653.
Valve, Locomotive throttle-. A. C. White. No. 1,333,357; Mar. 9; v. 272; p. 276.
Valve, Magnetic. F. Moreton. No. 1,342,641; June 8; v. 275; p. 253.
Valve mechanism. S. I. Fekete. No. 1,356,914; Oct. 26; v. 279; p. 624.
Valve mechanism. F. Gruber. No. 1,342,438; June 8; v. 275; p. 214.
Valve mechanism. J. C. Hornung. No. 1,327,675; Jan. 13; v. 270; p. 210.
Valve mechanism. G. Karst. No. 1,351,426; Aug. 31; v. 277; p. 876.
Valve mechanism. L. A. Mapel. No. 1,333,267; Mar. 9; v. 272; p. 258.
Valve mechanism. W. H. Rost. Nos. 1,362,742–3; Dec. 21; v. 281; p. 448.
Valve mechanism. G. A. Suffa. No. 1,336,447; Apr. 13; v. 273; p. 200.
Valve mechanism. I. M. Uppercu. No. 1,346,617; July 13; v. 276; p. 316.
Valve mechanism and pressure-signal, Safety-. R. E. McKee. No. 1,359,262; Nov. 16; v. 280; p. 506.
Valve mechanism, Attachment for. G. T. Shearer. No. 1,363,060; Dec. 21; v. 281; p. 509.
Valve mechanism, Dry-pipe. W. N. Ballard. No. 1,335,358; Mar. 30; v. 272; p. 819.
Valve mechanism, Engine-. J. C. Glenn. No. 1,354,966; Oct. 5; v. 279; p. 103.

Digitized by Google

Valve mechanism, Float-. F. L. Sessions. No. 1,342,874; June 8; v. 275; p. 301.
Valve mechanism, Hydraulically-operated. P. Haas. No. 1,331,707; Feb. 24; v. 271; p. 562.
Valve mechanism, Hydraulically-operated flushing-. P. Haas. No. 1,331,706; Feb. 24; v. 271; p. 562.
Valve mechanism, Smoke-control and drift. E. T. D. Myers, Jr. No. 1,327,404; Jan. 6; v. 270, p. 97.
Valve mechanism, Spring-damper for. E. W. Ohrt. No. 1,349,089; Aug. 10; v. 277; p. 238.
Valve mechanism, Spring damping means for. E. W. Ohrt. No. 1,349,090; Aug. 10; v. 277; p. 238.
Valve-mechanism support. A. Holmes. No. 1,352,897; Sept. 14; v. 278; p. 266.
Valve mechanism, Thermostatic. F. W. and G. A. Robertshaw. No. 1,339,368; May 4; v. 274; p. 132.
Valve member, &c. H. C. Egerton. No. 1,352,735; Sept. 14; v. 278; p. 234.
Valve, Mixing-. G. B. Emerson and C. E. Buysse. No. 1,351,236; Aug. 31; v. 277; p. 838.
Valve, Mixing-. G. W. McKee. No. 1,357,294; Nov. 2; v. 280; p. 18.
Valve, Motor-. L. Strebel. No. 1,335,534; Mar. 30; v. 272; p. 852.
Valve mounting, Bottle-. F. H. Silverthorne. No. 1,346,137; July 13; v. 276; p. 221.
Valve, Multiple. J. W. Heffernan. No. 1,355,832; Oct. 19; v. 279; p. 364.
Valve, Multiple-port fusion-. C. W. McArthur. No. 1,358,862; Nov. 16; v. 280; p. 431.
Valve, Multiple-way stop-. J. Dewrance. No. 1,345,751; July 6; v. 276; p. 83.
Valve, Needle-. W. R. Shaver. No. 1,332,310; Mar. 2; v. 272; p. 25.
Valve, Oil-burner. J. D. Horton. No. 1,360,955; Nov. 30; v. 280; p. 953.
Valve-operating devices, Lubricating means for. E. A. De Waters. No. 1,346,116; July 13; v. 276; p. 218.
Valve-operating means. J. L. Gish. No. 1,354,965; Oct. 5; v. 279; p. 103.
Valve-operating mechanism. A. M. Houser and W. B. Morris. No. 1,361,060; Dec. 7; v. 281; p. 16.
Valve-operating mechanism. W. P. Loudon. No. 1,350,077; Aug. 17; v. 277; p. 504.
Valve-operating mechanism. W. O. Renkin. No. 1,329,017; Jan. 27; v. 270; p. 528.
Valve-operating mechanism. E. Stuke. No. 1,357,912; Nov. 2; v. 280; p. 136.
Valve-operating mechanism. P. S. Witt. No. 1,356,103; Oct. 19; v. 279; p. 418.
Valve-operating mechanism, Anti-sideplay attachment for. C. H. Newton. No. 1,332,446; Mar. 2; v. 272; p. 52.
Valve-operating mechanism, Magnetic. W. C. Harrigan. No. 1,331,256; Feb. 17; v. 271; p. 457.
Valve or cock. G. Lapenda. No. 1,342,051; June 1; v. 275; p. 86.
Valve or faucet, Mixing-. J. L. T. Popp. No. 1,337,952; Apr. 20; v. 273; p. 561.
Valve, Oscillating. A. R. Jarman. No. 1,339,110; May 4; v. 274; p. 86.
Valve, Outlet-. H. M. Miller. No. 1,348,233; Aug. 3; v. 277; p. 21.
Valve, Packless. J. P. Lavigne. No. 1,353,053; Sept. 14; v. 278; p. 297.
Valve, Permutation-. H. Quinn. No. 1,357,081; Oct. 26; v. 279; p. 657.
Valve, Piston-. D. V. Boureau. No. 1,358,514; Nov. 9; v. 280; p. 317.
Valve, Piston-. D. More. No. 1,358,569; Nov. 9; v. 280; p. 328.
Valve, Piston or piston-. R. Allen. No. 1,335,951; Apr. 6; v. 273; p. 46.
Valve, Plate-. W. Prellwitz. No. 1,352,025; Sept. 7; v. 278; p. 61.
Valve, Plate-. C. Wainwright. No. 1,334,198; Mar. 16; v. 272; p. 494.
Valve, Plate-. G. W. Wardwell. No. 1,359,006; Nov. 16; v. 280; p. 459.
Valve, Pneumatic. J. N. Newsom, H. E Harder, and W. F. Leschen. No. 1,353,415; Sept. 21; v. 278; p. 427.
Valve, Pneumatic-tire. J. O. Helliwell. No. 1,337,316; Apr. 20; v. 273; p. 440.
Valve, Pressure and vacuum relief. A. W. Cash. No. 1,342,985; June 8; v. 275; p. 322.
Valve, Pressure-closed. G. A. Shadduck. No. 1,364,001; Dec. 28; v. 281; p. 732.
Valve, Pressure-regulating. W. F. Conran. No. 1,344,383; June 22; v. 275; p. 725.
Valve, Pressure-release. J. W. Keiser. No. 1,355,230; Oct. 12; v. 279; p. 208.
Valve, Pressure-relief. B. Brown. No. 1,334,985; Mar. 30; v. 272; p. 750.
Valve protector, Pneumatic-tool-. H. Keller. No. 1,354,833; Oct. 5; v. 279; p. 77.
Valve, Puppet-. L. W. Brenner. No. 1,342,419; June 8; v. 275; p. 211.
Valve, Puppet-. H. W. Evans. No. 1,358,420; Nov. 9; v. 280; p. 301.
Valve, Puppet-. F. D. Shepherd. No. 1,329,809; Feb. 3; v. 271; p. 86.
Valve, Radiator-. C. Feuser. No. 1,340,439; May 18; v. 274; p. 469.
Valve, Reducing-. R. C. Stokes and J. C. Conrad. No. 1,349,44[illegible] Aug. 10; v. 277; p. 308.
Valve-refacer. R. Bean. No. 1,330,778; Feb. 17; v. 271; p. 367.
Valve-refacing tool. R. Bean. No. 1,359,316; Nov. 16; v. 280; p. 517.
Valve-regulating means. A. C. Dobrick. No. 1,339,811; May 11; v. 274; p. 293.
Valve-regulator, Automatic. C. H. Hodges. No. 1,341,319; May 25; v. 274; p. 707.
Valve, Relief-. L. E. MacBryde. No. 1,343,735; June 15; v. 275; p. 533.
Valve, Reservoir-. A. G. Shaver. No. 1,359,540; Nov. 23; v. 280; p. 607.
Valve, Respirator-. G. C. Reeves. No. 1,326,966; Jan. 6; v. 270; p. 17.
Valve, Reversing-. F. H. Moyer and G. E. Thackray. No. 1,362,539; Dec. 14; v. 281; p. 356.
Valve, Reversing-. H. E. Schild. No. 1,331,585; Feb. 24; v. 271; p. 540.
Valve-rods for explosion-engines, Packing device for. P. L. A. Giaugue. No. 1,348,936; Aug. 10; v. 277; p. 208.
Valve, Rotary. J. Good. No. 1,329,521; Feb. 3; v. 271; p. 34.
Valve, Rotary. H. J. Mackowski. No. 1,362,721; Dec. 21; v. 281; p. 443.
Valve, Rotary. A. E. Moorhead. No. 1,361,397; Dec. 7; v. 281; p. 83.
Valve, Rotary. T. Ogden and L. Ware. No. 1,360,784; Nov. 30; v. 280; p. 920.
Valve, Rotary. T. F. Scollard. No. 1,362,899; Dec. 21; v. 281; p. 478.
Valve, Rotary. R. Wehr. No. 1,347,978; July 27; v. 276; p. 701.
Valve, Rotary. W. G. Wilson. No. 1,361,126; Dec. 7; v. 281; p. 29.
Valve, Rotary engine-. M. M. and C. W. Jackman. No. 1,331,711; Feb. 24; v. 271; p. 563.
Valve-rotating mechanism. J. Keller. No. 1,341,134; May 25; v. 274; p. 672.
Valve, Safety-. G. H. Clark. No. 1,356,853; Oct. 26; v. 279; p. 612.
Valve, Safety-. G. H. Clark. No. 1,356,854; Oct. 26; v. 299; p. 612.
Valve, Safety-. D. Cockburn and D. MacNicoll. No. 1,332,886; Mar. 9; v. 272; p. 187.
Valve, Safety-. W. Hargreaves. No. 1,359,169; Nov. 16; v. 280; p. 488.
Valve, Safety-. J. G. Lanning. No. 1,340,832; May 18; v. 274; p. 543.
Valve, Safety-. J. L. Luby and C. A. Treat. No. 1,331,115; Feb. 17; v. 271; p. 432.
Valve, Safety-. L. A. Mapel. No. 1,356,457; Oct. 19; v. 279; p. 487.
Valve, Safety-. L. A. Mapel. No. 1,361,884; Dec. 14; v. 281; p. 227.
Valve, Safety-. J. S. Maxwell. No. 1,330,329; Feb. 10; v. 271; p. 215.
Valve, Safety air-. D. P. Witman. No. 1,356,579; Oct. 26; v. 279; p. 558.
Valve, Safety air-. D. P. Witman. No. 1,356,580; Oct. 26; v. 279; p. 558.
Valve, Safety gas-. M. J. Horkave. No. 1,330,075; Feb. 10; v. 271; p. 168.
Valve-seat facer, Adjustable. F. Hoerner. No. 1,349,153; Aug. 10; v. 277; p. 251.
Valve-seat reamer. F. O. Albertson. No. 1,340,359; May 18; v. 274; p. 453.
Valve-seats, Facing-tool for dressing. F. A. and B. P. Dexter. No. 1,337,052; Apr. 13; v. 273; p. 316.
Valve-seats, Tool for refacing. L. R. Van Volkenburg. No. 1,350,901; Aug. 24; v. 277; p. 709.
Valve-seats, Tool for surfacing. M. B. Skinner. No. 1,330,915; Feb. 17; v. 271; p. 394.
Valve set for combined internal-combustion engines and vacuum pressure-pumps. O. Ohlsson. No. 1,334,963; Mar. 30; v. 272; p. 745.
Valve, Six-way. R. M. Downie. No. 1,344,490; June 22; v. 275; p. 746.
Valve, Spray-. A. B. Holmes and T. M. Dugan. No. 1,337,516; Apr. 20; v. 273; p. 578.
Valve-spring compressor. C. Everitt. No. 1,348,701; Aug. 3; v. 277; p. 110.
Valve-spring compressor. F. E. Jenkins. No. 1,351,424; Aug. 31; v. 277; p. 876.
Valve-spring compressor. A. B. Lockhart. (Reissue.) No. 14,845; Apr. 20; v. 273; p. 569.
Valve-spring compressor. C. H. Newton. No. 1,346,416; July 13; v. 276; p. 276.
Valve-spring holder. J. J. Bartenstein. No. 1,361,219; Dec. 7; v. 281; p. 47.
Valve-spring lifter. E. C. Austin. No. 1,349,934; Aug. 17; v. 277; p. 476.
Valve-spring lifter. G. T. Euard. No. 1,345,153; June 29; v. 275; p. 939.
Valve-spring lifter. G. Guinand. No. 1,352,407; Sept. 7; v. 278; p. 132.
Valve-spring lifter. P. A. Knight. No. 1,348,570; Aug. 3; v. 277; p. 86.
Valve-spring lifter. H. W. Kulp. No. 1,330,542; Feb. 10; v. 271; p. 255.
Valve-spring lifter. H. W. Kulp and M. C. Dellinger. No. 1,359,814; Nov. 23; v. 280; p. 661.

Digitized by Google

Valve-spring lifter. A. S. Lewis. No. 1,3[illegible]982; Oct. 5; v. 279; p. 106.
Valve-spring lifter. N. H. Lundquist. No. 1,353,255; Sept. 21; v. 278; p. 396.
Valve-spring lifter. J. B. Meller. No. 1,354,412; Sept. 28; v. 278; p. 672.
Valve-spring lifter. J. G. Oestreich. No. 1,358,871; Nov. 16; v. 280; p. 433.
Valve-spring lifter. P. Pringle. No. 1,361,492; Dec. 7; v. 281; p. 104.
Valve-spring lifter. J. L. Rudolph. No. 1,362,440; Dec. 14; v. 281; p. 337.
Valve-spring remover. P. C. Vang. No. 1,328,776; Jan. 20; v. 270; p. 453.
Valve-spring retainer. C. W. Finney. No. 1,327,539; Jan. 6; v. 270; p. 123.
Valve-springs, Tool for lifting. A. O. Feilbach. No. 1,328,228; Jan. 13; v. 270; p. 314.
Valve, Standing. T. M. Adams. No. 1,353,303; Sept. 21; v. 278; p. 405.
Valve, Standing. C. E. Alexander. No. 1,329,738; Feb. 3; v. 271; p. 73.
Valve, Steam-. J. Wallace and T. R. Lees. No. 1,336,451; Apr. 13; v. 273; p. 200.
Valve, Steam-circulating by-pass and relief. E. B. Whelan. No. 1,351,314; Aug. 31; v. 277; p. 853.
Valve, Steam-feed. D. Vanzile. No. 1,348,608; Aug. 3; v. 277; p. 93.
Valve-stem base or pad. W. F. Bishop. No. 1,363,886; Dec. 28; v. 281; p. 612.
Valve stem guide and seat reamer. R. M. Chadsey. No. 1,361,682; Dec. 7; v. 281; p. 141.
Valve-stem packing-cup. H. A. Lee. No. 1,344,347; June 22; v. 275; p. 718.
Valve-stem washer. E. L. Weil. No. 1,344,744; June 29; v. 275; p. 861.
Valve-stem stuffing-box. J. Shelton. No. 1,352,548; Sept. 14; v. 278; p. 196.
Valve-stems, Adjustable dust-cap for. F. Leming. No. 1,329,126; Jan. 27; v. 270; p. 549.
Valve-stems, Dust-cap for. R. E. Bloom. No. 1,330,577; Feb. 10; v. 271; p. 261.
Valve-stems, Dust-cap for. M. F. Patton. No. 1,358,649; Nov. 9; v. 280; p. 343.
Valve-stems, Dust-cap for. W. E. Vollmer. No. 1,338,054; Apr. 27; v. 273; p. 650.
Valve-stems, Means for attaching handles to. W. M. Fulton. No. 1,340,604; May 18; v. 274; p. 500.
Valve-stems, Quick-acting dust-cap for inflating. W. L. Richards. No. 1,337,871; Apr. 20; v. 273; p. 451.
Valve-stems, Quick-detachable combined dust and air cap for. J. M. McNamara. No. 1,331,347; Feb. 17; v. 271; p. 474.
Valve-stems, Tool for removing pins from. C. H. Wellbrook. No. 1,355,631; Oct. 12; v. 279; p. 285.
Valve-stems, Valve for iner-tube. V. A. Leach. No. 1,335,976; Apr. 6; v. 273; p. 52.
Valve, Stop and waste. W. H. Smith. No. 1,331,535; Feb. 24; v. 271; p. 530.
Valve structure, Air-. L. T. Earnheart. No. 1,361,570; Dec. 7; v. 281; p. 119.
Valve system, Combined mixing and delivery. J. Fraser. No. 1,354,291; Sept. 28; v. 278; p. 647.
Valve-tappets, Shim-holder for. G. A. Breeze. No. 1,340,211; May 18; v. 274; p. 426.
Valve, Test-. G. Ernst. No. 1,343,043; June 8; v. 275; p. 334.
Valve-testing device. E. Coleman. No. 1,337,390; Apr. 20; v. 273; p. 454.
Valve, Thermally-actuated drain-. S. P. Waage and R. Warren. No. 1,338,469; Apr. 27; v. 273; p. 728.
Valve, Thermo safety-. K. F. Triggs. No. 1,346,791; July 13; v. 276; p. 352.
Valve, Thermostatic. E. E. Gold. No. 1,339,057; May 4; v. 274; p. 76.
Valve, Thermostatic. W. J. Herdman. No. 1,327,277; Jan. 6; v. 270; p. 74.
Valve, Thermostatic. P. Mirk. No. 1,341,016; May 28; v. 274; p. 649.
Valve, Thermostatic. P. J. Vollman. No. 1,363,447; Dec. 28; v. 281; p. 624.
Valve, Throttle-. R. W. Clifford and P. J. Nichols. No. 1,338,489; Apr. 27; v. 273; p. 732.
Valve, Throttle-. C. C. Hansen. No. 1,345,364; July 6; v. 276; p. 7.
Valve, Throttle-. P. D. Hibner. No. 1,345,772; July 6; v. 276; p. 87.
Valve, Throttle-. H. S. Vincent. No. 1,352,772; Sept. 14; v. 278; p. 241.
Valve-tool. A. C. Rosenbrook. No. 1,339,422; May 11; v. 274; p. 218.
Valve-truing device. W. S. Anderson. No. 1,327,187; Jan. 6; v. 270; p. 58.
Valve-truing device. O. B. Jones and D. W. Spence. No. 1,342,632; June 8; v. 275; p. 251.
Valve unit, Thermostatic-. C. I. Hall. No. 1,337,907; Apr. 20; v. 273; p. 552.
Valve-unloading mechanism. R. N. Ehrhart. No. 1,352,439; Sept. 14; v. 278; p. 174.
Valve, Variable-orifice. C. F. Wallace. No. 1,326,998; Jan. 6; v. 270; p. 23.
Valve-venting device, Radiator-. G. H. Murphy. No. 1,363,480; Dec. 28; v. 281; p. 631.
Valve, Water-gage safety-. F. F. Beese. No. 1,339,383; May 11; v. 274; p. 211.
Valve, Water-seal vacuum-. J. H. Lindsay. No. 1,353,767; Sept. 21; v. 278; p. 498.
Valves and similar articles, Forging. E. Fuchs. No. 1,351,949; Sept. 7; v. 278; p. 47.
Valves and their seats or cages, Device for removing. P. Bordeaux. No. 1,328,362; Jan. 20; v. 270; p. 376.
Valves, Bulb for tank-. A. T. Hopkins. No. 1,343,890; June 15; v. 275; p. 564.
Valves, Carbureting-screen for intake-. F. W. Lapham. No. 1,340,062; May 11; v. 274; p. 340.
Valves, Controlling means for auxiliary and throttle. D. J. Pledger. No. 1,332,408; Mar. 2; v. 272; p. 45.
Valves, Controlling mechanism for flushing-. F. A. Schossow. No. 1,353,804; Sept. 21; v. 278; p. 505.
Valves, Device for facilitating the removal of. P. Bordeaux. No. 1,334,131; Mar. 16; v. 272; p. 482.
Valves, Dust-cap for pneumatic. J. Currie and H. W. Bell. No. 1,353,125; Sept. 14; v. 278; p. 310.
Valves, faucets, locking devices, &c., Key-operated rotatable parts of. J. Bliss. No. 1,327,587; Jan. 6; v. 270; p. 132.
Valves, Inserter-elevator for standing. A. H. Reed. No. 1,334,117; Mar. 16; v. 272; p. 480.
Valves, Machine for trimming. A. E. Schlieder. No. 1,346,259; July 13; v. 276; p. 246.
Valves, Manufacturing. H. Wild. No. 1,361,214; Dec. 7; v. 281; p. 46.
Valves, Manufacturing puppet-. C. F. Couve. No. 1,337,001; Apr. 13; v. 273; p. 306.
Valves, Means for controlling. C. W. Larner. No. 1,362,331; Dec. 14; v. 281; p. 316.
Valves, Port-packing for rotary. A. Dickerson. No. 1,354,539; Oct. 5; v. 279; p. 19.
Valves, Regulating device for thermostatically-controlled. J. V. Giesler. No. 1,354,740; Oct. 5; v. 279; p. 58.
Valves, Safety device for operating flush-tank. W. O. Griffiths. No. 1,343,261; June 15; v. 275; p. 440.
Valves, Safety device for relief-. J. M. Dougherty and H. C. Tabler. No. 1,342,667; June 8; v. 275; p. 258.
Valves, Thermo-. G. D. Hoffman. No. 1,352,808; Sept. 14; v. 278; p. 229.
Vamp-trimming machine. C. C. Blake. No. 1,332,198; Mar. 2; v. 272; p. 4.
Vanillyl amin, vanillyl acyl amid, &c. E. K. Nelson. No. 1,329,272; Jan. 27; v. 270; p. 576.
Vanity-box. F. S. Hyatt. No. 1,349,672; Aug. 17; v. 277; p. 426.
Vanity-box. F. S. Hyatt. No. 1,349,673; Aug. 17; v. 277; p. 426.
Vanity-case. S. Haslam. No. 1,354,970; Oct. 5; v. 279; p. 104.
Vanity-case. W. G. Kendall. No. 1,329,412; Feb. 3; v. 271; p. 13.
Vanity-case. W. G. Kendall. No. 1,342,116; June 1; v. 275; p. 99.
Vanity-case. R. H. Sharp. No. 1,353,281; Sept. 21; v. 278; p. 401.
Vapor-burner. J. G. Widhelm. No. 1,329,066; Jan. 27; v. 270; p. 537.
Vapor-burner. W. T. Wood. No. 1,331,135; Feb. 17; v. 271; p. 435.
Vapor burner and lamp. F. C. Tilley. No. 1,360,824; Nov. 30; v. 280; p. 928.
Vapor-burners, Starter for. I. H. Severance. No. 1,362,966; Dec. 21; v. 281; p. 490.
Vapor-conductors, Method and apparatus for electric lighting and starting. J. W. Dorsey. No. 1,333,608; Mar. 16; v. 272; p. 383.
Vapor-converter substation, Automatically-controlled. E. P. Dillon. No. 1,358,713; Nov. 16; v. 280; p. 401.
Vapor-extractor. G. A. Bronder. No. 1,361,005; Dec. 7; v. 281; p. 5.
Vapor-lighter. E. A. A. Evans. No. 1,360,202; Nov. 23; v. 280; p. 738.
Vapor mixtures, Treating gas-. W. E. Lummus. No. 1,336,360; Apr. 6; v. 273; p. 124.
Vapors and gases, Method and apparatus for separating. W. A. Patrick, B. F. Lovelace, and E. B. Miller. No. 1,335,348; Mar. 30; v. 272; p. 818.
Vapors, Electrical apparatus for the electrochemical treatment of. L. B. Cherry. No. 1,345,431; July 6; v. 276; p. 20.
Vaporizer. D. J. Angus. No. 1,357,922; Nov. 2; v. 280; p. 138.
Vaporizer. J. H. Batchelor. No. 1,347,435; July 20; v. 276; p. 537.
Vaporizer. G. A. Burnham. No. 1,356,188; Oct. 19; v. 279; p. 436.
Vaporizer. S. J. Herrick. No. 1,359,373; Nov. 16; v. 280; p. 529.
Vaporizer. A. J. Richards. No. 1,338,398; Apr. 27; v. 273; p. 714.
Vaporizer. J. M. Selden. No. 1,357,525; Nov. 2; v. 280; p. 61.
Vaporizer. M. K. Thayer. No. 1,345,563; July 6; v. 276; p. 47.
Vaporizer and holder. A. G. Kaufman. No. 1,342,446; June 8; v. 275; p. 216.
Vaporizer-guide. A. G. Kaufman. No. 1,345,448; July 6; v. 276; p. 24.
Vaporizing attachment. T. T. Pope. No. 1,341,760; June 1; v. 275; p. 29.

Digitized by Google

Vaporising device. A. W. Thompson and E. W. Comfort. No. 1,339,303; May 4; v. 274; p. 120.
Vaporizing-stopper. E. W. Austin. No. 1,337,189; Apr. 20; v. 273; p. 416.
Variable inductance. H. P. Donle. No. 1,332,463; Mar. 2; v. 272; p. 55.
Variable-resistance device. J. Parkin, Jr. No. 1,342,594; June 8; v. 275; p. 245.
Varnish-drying oven, Portable. W. O. Guice. No. 1,352,893; Sept. 14; v. 278; p. 266.
Varnish, Manufacturing. C. H. Bennett. No. 1,341,103; May 25; v. 274; p. 666.
Varnish, Preparing. C. T. Bragg. No. 1,337,749; Apr. 20; v. 273; p. 522.
Varnish, Waterproof. R. E. Dings and L. Schuster. No. 1,326,917; Jan. 6; v. 270; p. 7.
Varnished-surface burnisher. R. A. Alexander. No. 1,350,537; Aug. 24; v. 277; p. 640.
Vases, Making. M. Martin. No. 1,353,928; Sept. 28; v. 278; p. 573.
Vat, Dipping-. T. L. Mullins. No. 1,345,801; July 6; v. 276; p. 93.
Vault and sidewalk light. H. Haines. No. 1,361,720; Dec. 7; v. 281; p. 149.
Vault, Burial-. N. W. Davis. No. 1,339,920; May 11; v. 274; p. 314.
Vault, Burial-. H. M. Knight. No. 1,337,559; Apr. 20; v. 273; p. 486.
Vault, Burial-. H. M. Wells. No. 1,351,313; Aug. 31; v. 277; p. 853.
Vault-light. G. E. Rohmer. No. 1,363,016; Dec. 21; v. 281; p. 501.
Vault-light, skylight, or floor-light construction. C. H. Law. No. 1,353,919; Sept. 28; v. 278; p. 571.
Vault-light, skylight, or floor-light construction. C. H. Law. No. 1,360,416; Nov. 30; v. 280; p. 848.
Vault, Metallic burial-. A. A. Arnold. No. 1,360,865; Nov. 30; v. 280; p. 936.
Vault, Metallic grave-. C. V. Lucius. No. 1,359,402; Nov. 16; v. 280; p. 535.
Vault-plate. C. M. Johnson. No. 1,342,913; June 8; v. 275; p. 308.
Vault-vestibule. M. Mosler and C. Bartels. No. 1,349,138; Aug. 10; v. 277; p. 247.
Vegetables and fruits, Apparatus for and method of preparing. N. Rosenfeld. No. 1,361,776; Dec. 7; v. 281; p. 159.
Vegetable and other products, Machine for cleaning. J. F. Featherstone. No. 1,335,675; Mar. 30; v. 272; p. 879.
Vegetable-cutter. J. Gulla. No. 1,359,362; Nov. 16; v. 280; p. 527.
Vegetable-cutter. F. Hachmann. No. 1,331,497; Feb. 24; v. 271; p. 523.
Vegetable-cutter. J. Loeffler. No. 1,353,484; Sept. 21; v. 278; p. 441.
Vegetable-cutter. C. P. Slagle. No. 1,333,641; Mar. 16; v. 272; p. 390.
Vegetable-cutter. F. Turk. No. 1,351,357; Aug. 31; v. 277; p. 863.
Vegetable-cutter. W. Zitella. No. 1,339,254; May 4; v. 274; p. 112.
Vegetable-digger. J. N. Borglin. No. 1,362,836; Dec. 21; v. 281; p. 466.
Vegetable material for paving or other purposes, Treating. J. E. Clark. No. 1,364,037; Dec. 28; v. 281; p. 788.
Vegetable-topper. C. W. Hougland. No. 1,349,204; Aug. 10; v. 277; p. 261.
Vegetable waste, Machine for treating. G. Taylor. No. 1,335,619; Mar. 30; v. 272; p. 867.
Vegetables, Apparatus for drying. D. Brons. No. 1,326,909; Jan. 6; v. 270; p. 5.
Vehicle. R. Barrett. No. 1,343,993; June 22; v. 275; p. 649.
Vehicle. H. L. Call. No. 1,337,437; Apr. 20; v 273; p. 463.
Vehicle. H. B., G. L., and J. Freeman. No. 1,355,221; Oct. 12; v. 279; p. 206.
Vehicle. L. Nussbaum. No. 1,340,733; May 18; v. 274; p. 524.
Vehicle. A. H. Peltier. No. 1,357,895; Nov. 2; v. 280; p. 132.
Vehicle. H. R. Read. No. 1,363,917; Dec. 28; v. 281; p. 716.
Vehicle. J. E. Shearer. No. 1,336,100; Apr. 6; v. 273; p. 75.
Vehicle. P. Smith. No. 1,328,348; Jan. 20; v. 270; p. 372.
Vehicle. F. P. Stone. No. 1,355,925; Oct. 19; v. 279; p. 382.
Vehicle-alarm. D. A. Gillen. No. 1,361,762; Dec. 7; v. 281; p. 156.
Vehicle-alarm. J. W. McGowan. No. 1,328,173; Jan. 13; v. 270; p. 303.
Vehicle and steering apparatus, Occupant-operated. D. W. Moody. No. 1,327,960; Jan. 13; v. 270; p. 263.
Vehicle antiskid device, Motor-propelled. N. M. Hopkins. No. 1,328,739; Jan. 20; v. 270; p. 447.
Vehicle antiskiding device. J. Atherton. No. 1,334,644; Mar. 23; v. 272; p. 624.
Vehicle attachment. E. R. Pendleton. No. 1,358,650; Nov. 9; v. 280; p. 344.
Vehicle attachment. A. D. Willmore. No. 1,339,246; May 4; v. 274; p. 110.
Vehicle attachment, Motor-. A. Newhope. No. 1,329,200; Jan. 27; v. 270; p. 563.
Vehicle, Auto-propelled. R. Mauclaire and L. Delamotte. No. 1,341,379; May 25; v. 274; p. 720.
Vehicle-awning. P. M. Gervig. No. 1,336,953; Apr. 13; v. 273; p. 297.
Vehicle-bed-supporting means. P. C. Baird. No. 1,340,204; May 18; v. 274; p. 424.
Vehicle-bodies and finishing-covers therefor, Finishing. J. F. O'Byrne. No. 1,332,269; Mar. 2; v. 272; p. 18.
Vehicle bodies, Means for mounting motor-. O. M. Ebert. No. 1,355,823; Oct. 19; v. 279; p. 363.
Vehicle-bodies, Spring-mounting for. C. Westergard. No. 1,354,082; Sept. 28; v. 278; p. 605.
Vehicle-bodies, Spring-support for. J. E. Simmons. No. 1,349,170; Aug. 10; v. 277; p. 254.
Vehicle-bodies, Supporting connection for. W. G. Mayer. No. 1,339,521; May 11; v. 274; p. 238.
Vehicle-body. G. P. Connealy. No. 1,359,332; Nov. 16; v. 280; p. 521.
Vehicle-body. F. M. Hoblitt. No. 1,349,959; Aug. 17; v. 277; p. 481.
Vehicle-body. A. O. Holton. No. 1,327,558; Jan. 6; v. 270; p. 127.
Vehicle-body. A. L. Milks. No. 1,361,603; Dec. 7; v. 281; p. 126.
Vehicle-body. J. M. Perlman. No. 1,328,391; Jan. 20; v. 270; p. 381.
Vehicle-body. J. M. Perlman. No. 1,329,627; Feb. 3; v. 271; p. 53.
Vehicle body and hoist therefor, Dumping-. R. W. Rose. No. 1,351,719; Aug. 31; v. 277; p. 933.
Vehicle-body and method of making same. I. S. Franklin. No. 1,362,249; Dec. 14; v. 281; p. 301.
Vehicle-body and portable extension therefor. H. Puff. No. 1,344,717; June 29; v. 275; p. 855.
Vehicle-body brace. A. O. Buckius, Jr. No. 1,328,415; Jan. 20; v. 270; p. 386.
Vehicle-body, Convertible. R. M. Freeman. No. 1,353,157; Sept. 21; v. 278; p. 377.
Vehicle-body, Convertible. J. Rebours. No. 1,358,784; Nov. 16; v. 280; p. 416.
Vehicle body, Motor-. S. I. Fekete and S. G. Baits. No. 1,333,609; Mar. 16; v. 272; p. 384.
Vehicle body, Motor-road-. W. I. Rogers. No. 1,353,787; Sept. 21; v. 278; p. 502.
Vehicle-body suspension. W. D. Harper. No. 1,357,497; Nov. 2; v. 280; p. 56.
Vehicle-bonnet. G. H. Manchester. No. 1,356,774; Oct. 26; v. 279; p. 596.
Vehicle-brake. G. M. Carter. No. 1,347,990; July 27; v. 276; p. 703.
Vehicle-brake. G. E. Dale. No. 1,332,487; Mar. 2; v. 272; p. 60.
Vehicle-brake. W. E. Traphagen. No. 1,362,372; Dec. 14; v. 281; p. 324.
Vehicle brake mechanism. M. Stringer. No. 1,348,331; Aug. 31; v. 277; p. 40.
Vehicle. Brake mechanism for. D. J. Angus. No. p. 390.
Vehicles, Brake mechanism for. D. J. Angus. No. 1,356,032; Oct. 19; v. 279; p. 404.
Vehicle brake, Motor-driven-. S. H. Lewis. No. 1,353,806; Sept. 21; v. 278; p. 505.
Vehicle brake, Trailer-. O. E. Bond and E. T. Earl. No. 1,354,947; Oct. 5; v. 279; p. 99.
Vehicle-buffers, Retainer-attacher for. G. A. Lyon. No. 1,351,049; Aug. 31; v. 277; p. 801.
Vehicle-bumper. A. S. Clucker. No. 1,349,117; Aug. 10; v. 277; p. 243.
Vehicle-bumper. R. B. Fageol. No. 1,348,634; Aug. 3; v. 277; p. 98.
Vehicle-bumper. L. F. Stafford. No. 1,348,329; Aug. 3; v. 277; p. 39.
Vehicle-bumper. F. G. Whittington. No. 1,361,429; Dec. 7; v. 281; p. 90.
Vehicle bumper-bars, Apparatus for manufacturing. E. M. Little. No. 1,354,770; Oct. 5; v. 279; p. 65.
Vehicle bumper, Motor-. R. B. Fageol. No. 1,329,517; Feb. 3; v. 271; p. 33.
Vehicle, Child's. P. Alexander, Jr. No. 1,363,214; Dec. 28; v. 281; p. 580.
Vehicle, Child's. N. A. Archibald. No. 1,334,583; Mar. 23; v. 272; p. 613.
Vehicle, Child's. C. C. Bolen and C. E. McKee. No. 1,359,957; Nov. 23; v. 280; p. 690.
Vehicle, Child's. A. H. Davidson. No. 1,359,674; Nov. 23; v. 280; p. 633.
Vehicle, Child's. E. Ischinger. No. 1,343,566; June 15; v. 275; p. 499.
Vehicle, Child's. H. W. Longfellow. No. 1,331,072; Feb. 17; v. 271; p. 424.
Vehicle, Child's. M. J. O'Meara. No. 1,352,213; Sept. 7; v. 278; p. 95.
Vehicle, Child's. P. O. Moratz. No. 1,354,121; Sept. 28; v. 278; p. 613.
Vehicle, Child's. K. Niemi. No. 1,357,110; Oct. 26; v. 279; p. 662.
Vehicle, Child's. M. Skolnik. No. 1,362,825; Dec. 21; v. 281; p. 464.
Vehicle, Child's. M. Spolnik. No. 1,348,326; Aug. 3; v. 277; p. 39.

Digitized by Google

Alphabetical list of inventions—Continued.

Vehicle, Child's. G. W. Watson. No. 1,341,768; June 1; v. 275; p. 31.
Vehicle circuit-lock, Motor-. F. Eccles. No. 1,361,450; Dec. 7; v. 281; p. 95.
Vehicle, Combination motor-. R. A. Wornstaff. No. 1,346,778; July 13; v. 276; p. 349.
Vehicle, Combined touring and delivery. K. A. Blancher. No. 1,361,359; Dec. 7; v. 281; p. 76.
Vehicle construction, Child's-. W. J. Sieffel. No. 1,354,141; Sept. 28; v. 278; p. 617.
Vehicle construction, Motor-. K. G. Lundin. No. 1,339,269; May 4; v. 274; p. 114.
Vehicle construction, Motor-. C. W. McKinley. No. 1,346,326; July 13; v. 276; p. 259.
Vehicle construction, Motor-driven-. G. R. Fairchilds. No. 1,343,358; June 15; v. 275; p. 458.
Vehicle control, Automatic. A. J. Macy. No. 1,326,946; Jan. 6; v. 270; p. 13.
Vehicle-control pedals, Lock for. F. H. Sleeper. No. 1,335,532; Mar. 30; v. 272; p. 851.
Vehicle-controlling mechanism, Motor-. D. C. Cookingham. No. 1,359,577; Nov. 23; v. 280; p. 615.
Vehicle, Convertible. C. C. Kusterer. No. 1,357,001; Nov. 9; v. 280; p. 214.
Vehicle-coupling. A. B. Cadman. No. 1,340,521; May 18; v. 274; p. 484.
Vehicle-coupling. G. F. Greenwood. No. 1,363,777; Dec. 28; v. 281; p. 688.
Vehicle-coupling. T. C. Thoreson. No. 1,354,589; Oct. 5; v. 279; p. 28.
Vehicle-coupling attachment. C. L. B. de Saunier. No. 1,338,561; Apr. 27; v. 273; p. 745.
Vehicle-coupling mechanism. W. R. Hudson. No. 1,358,955; Nov. 16; v. 280; p. 449.
Vehicle cover, Motor-. A. Olsen. No. 1,331,122; Feb. 17; v. 271; p. 433.
Vehicle-curtain light. D. M. Winans. No. 1,339,838; May 11; v. 274; p. 298.
Vehicle-curtain light, Detachable. D. M. Winans. No. 1,337,302; Apr. 20; v. 273; p. 438.
Vehicle cushioning means. F. J. Troll. No. 1,329,683; Feb. 3; v. 271; p. 63.
Vehicle deck or covering. M. Z. L. Fuller. No. 1,359,686; Nov. 23; v. 280; p. 636.
Vehicle direction-indicator. D. C. Stickrath. No. 1,332,236; Mar. 2; v. 272; p. 11.
Vehicle direction-indicator. N. Suzuki. No. 1,338,112; Apr. 27; v. 273; p. 661.
Vehicle direction-indicators, Connector for. D. Merendino. No. 1,362,170; Dec. 14; v. 281; p. 284.
Vehicle direction-signal. L. E. Firesheets. No. 1,357,040; Oct. 26; v. 279; p. 648.
Vehicle direction-signal, Motor-. K. E. Stoker. No. 1,359,286; Nov. 16; v. 280; p. 511.
Vehicle, Dispensing-. J. B. Moody. No. 1,327,248; Jan. 6; v. 270; p. 69.
Vehicle-door lock. F. H. Hart. No. 1,351,568; Aug. 31; v. 277; p. 904.
Vehicle-drive. M. Kimble. No. 1,351,292; Aug. 31; v. 277; p. 849.
Vehicle drive, Motor-. A. Lucand. No. 1,330,883; Feb. 17; v. 271; p. 388.
Vehicle drive, Motor-. J. W. Prosser. No. 1,339,475; May 11; v. 274; p. 229.
Vehicle driving mechanism. R. T. and M. H. Jones. No. 1,330,121; Feb. 10; v. 271; p. 177.
Vehicle, Dumping-. G. L. Hancock. No. 1,349,760; Aug. 17; v. 277; p. 443.
Vehicle, Dumping-. F. C. Schofield. No. 1,351,796; Sept. 7; v. 278; p. 15.
Vehicle, Electric. R. Macrae. No. 1,332,561; Mar. 2; v. 272; p. 74.
Vehicle, Electric. L. G. Riley. No. 1,360,319; Nov. 30; v. 280; p. 829.
Vehicle, Electrically-driven road-. F. La Roche. No. 1,333,121; Mar. 9; v. 272; p. 231.
Vehicle, Electrically-propelled. D. Kemble. No. 1,348,568; Aug. 3; v. 277; p. 85.
Vehicle end-gate. W. Sanderson. No. 1,356,560; Oct. 26; v. 279; p. 554.
Vehicle-engine heater. C. H. Clark. No. 1,359,871; Nov. 23; v. 280; p. 673.
Vehicle-fender. R. Morris. No. 1,363,529; Dec. 28; v. 281; p. 640.
Vehicle-fender. E. W. Pohlig. No. 1,340,835; May 18; v. 274; p. 543.
Vehicle fender, Motor-. F. V. Guerra. No. 1,358,541; Nov. 9; v. 280; p. 322.
Vehicle for soft ground, Motor-. J. E. Ollivier. No. 1,340,789; May 18; v. 274; p. 535.
Vehicle-frame. W. U. Richmond. No. 1,343,682; June 15; v. 275; p. 522.
Vehicle-frame brace. M. E. Crow. No. 1,342,623; June 8; v. 275; p. 249.
Vehicle-frames, Means for relieving strain on. R. V. Lyon. No. 1,330,484; Feb. 10; v. 271; p. 244.
Vehicle, Gravity-propelled. R. B. Brown. No. 1,332,185; Feb. 24; v. 271; p. 652.
Vehicle-guard. R. S. Clary. No. 1,347,937; July 27; v. 276; p. 693.
Vehicle-heater. T. Bovey. No. 1,341,879; June 1; v. 275; p. 52.
Vehicle-hoisting device. J. F. Matson. No. 1,332,053; Feb. 24; v. 271; p. 628.
Vehicle-hoisting device. W. C. George and F. N. Nofsger. No. 1,354,038; Sept. 28; v. 278; p. 590.
Vehicle-hub wrench. G. and P. Townill and G. Sampson. No. 1,351,354; Aug. 31; v. 277; p. 862.
Vehicle-indicator. G. H. Bruder. No. 1,341,009; May 25; v. 274; p. 648.
Vehicle, Interchangeable. W. M. Schluer. No. 1,327,883; Jan. 13; v. 270; p. 249.
Vehicle-jack. D. Bruhn. No. 1,340,150; May 18; v. 274; p. 415.
Vehicle-jack. J. Crane. No. 1,356,697; Oct. 26; v. 279; p. 581.
Vehicle-jack. J. J. Farrington. No. 1,359,044; Nov. 16; v. 280; p. 466.
Vehicle-jack. J. M. Roberts. No. 1,335,858; Apr. 6; v. 273; p. 29.
Vehicle-jack. W. B. Whitton. No. 1,342,140; June 1; v. 275; p. 103.
Vehicle-lever lock, Motor-. E. Pierce. No. 1,333,093; Mar. 9; v. 272; p. 227.
Vehicle lifter or jack. M. E. Hughes. No. 1,335,969; Apr. 6; v. 273; p. 50.
Vehicle-lighting device. G. H. Harvey. No. 1,359,804; Nov. 23; v. 280; p. 660.
Vehicle loading-indicator. R. S. Gans. No. 1,343,556; June 15; v. 275; p. 497.
Vehicle-lock. J. P. Lind. No. 1,337,709; Apr. 20; v. 273; p. 515.
Vehicle lock, Motor-. J. De Martino. No. 1,333,581; Mar. 9; v. 272; p. 318.
Vehicle lock, Motor-. C. H. Johnson. No. 1,360,534; Nov. 30; v. 280; p. 871.
Vehicle lock, Motor-. I. S. Payton. No. 1,358,106; Nov. 9; v. 280; p. 235.
Vehicle lock, Motor-. F. R. Warren. No. 1,330,926; Feb. 17; v. 271; p. 396.
Vehicle, Manually-propelled. C. F. Flynn and A. Aragona. No. 1,359,348; Nov. 16; v. 280; p. 524.
Vehicle, Manually-propelled. L. M. Tucker. No. 1,346,727; July 13; v. 276; p. 338.
Vehicle, Means for securing license-tags to. J. F. Parker. No. 1,358,872; Nov. 16 v. 280; p. 433.
Vehicle, Mechanical. H. Sonoda. No. 1,346,985; July 20; v. 276; p. 449.
Vehicle, Motor-. F. G. Alborn. No. 1,358,070; Nov. 9; v. 280; p. 348.
Vehicle, Motor-. E. H. Belden. No. 1,335,720; Apr. 6; v. 273; p. 3.
Vehicle, Motor-. G. M. and H. F. S. Caulfeild. No. 1,353,379; Sept. 21; v. 278; p. 420.
Vehicle, Motor-. H. D. Church. No. 1,336,462; Apr. 13; v. 273; p. 202.
Vehicle, Motor-. H. D. Church. No. 1,346,530; July 13; v. 276; p. 299.
Vehicle, Motor-. E. C. Cooper. No. 1,358,935; Nov. 16; v. 280; p. 446.
Vehicle, Motor-. E. Daniels. No. 1,359,670; Nov. 23; v. 280; p. 632.
Vehicle, Motor-. F. H. Dewey. No. 1,344,993; June 29; v. 275; p. 907.
Vehicle-motor. W. Greer. No. 1,351,641; Aug. 31; v. 277; p. 919.
Vehicle, Motor-. M. Haupt. No. 1,353,393; Sept. 21; v. 278; p. 422.
Vehicle, Motor-. G. E. Hazlett. No. 1,331,197; Feb. 17; v. 271; p. 447.
Vehicle, Motor-. O. E. Hunt. No. 1,348,997; Aug. 10; v. 277; p. 220.
Vehicle, Motor-. G. Jacobs. No. 1,361,523; Dec. 7; v. 281; p. 110.
Vehicle, Motor-. C. C. Keesler. No. 1,350,460; Aug. 24; v. 277; p. 625.
Vehicle, Motor-. F. Kiehler. No. 1,345,931; July 6; v. 276; p. 119.
Vehicle, Motor-. D. Kraus. No. 1,347,279; July 20; v. 276; p. 506.
Vehicle, Motor-. W. B. Louthan. No. 1,331,205; Feb. 17; v. 271; p. 448.
Vehicle, Motor-. E. H. Oversmith. No. 1,350,668; Aug. 24; v. 277; p. 666.
Vehicle, Motor-. H. W. Potter. No. 1,358,462; Nov. 9; v. 280; p. 307.
Vehicle, Motor-. J. H. Press. No. 1,348,241; Aug. 3; v. 277; p. 22.
Vehicle, Motor-. H. J. Sauvage. No. 1,346,914; July 20; v. 276; p. 434.
Vehicle, Motor-. A. A. Schneider. No. 1,358,252; Nov. 9; v. 280; p. 263.
Vehicle, Motor-. C. R. Short. No. 1,335,989; Apr. 6; v. 273; p. 54.
Vehicle, Motor-. L. K. Snell. No. 1,342,831; June 8; v. 275; p. 292.
Vehicle, Motor-. L. K. Snell. No. 1,358,890; Nov. 16; v. 280; p. 437.
Vehicle, Motor-. C. B. Steele. (Reissue.) No. 14,850; Apr. 27; v. 273; p. 764.
Vehicle, Motor-. E. E. Sweet. No. 1,349,589; Aug. 17; v. 277; p. 410.
Vehicle, Motor-. M. Tibbetts. No. 1,335,539; Mar. 30; v. 272; p. 852.
Vehicle, Motor-. A. G. Vair. No. 1,349,743; Aug. 17; v. 277; p. 440.

Digitized by Google

Vehicle, Motor-. J. G. Vincent. No. 1,344,279; June 22; v. 275; p. 704.
Vehicle, Motor-. J. G. Vincent. No. 1,358,482; Nov. 9; v. 280; p. 310.
Vehicle, Motor-. F. A. Whitten. No. 1,336,008; Apr. 6; v. 273; p. 58.
Vehicle, Motor-. F. A. Whitten. No. 1,346,149; July 13; v. 276; p. 224.
Vehicle, Motor-. H. E. Winslow. No. 1,348,385; Aug. 3; v. 277; p. 50.
Vehicle, Motor-driven. J. Dean. No. 1,338,680; May 4; v. 274; p. 6.
Vehicle, Occupant-propelled. J. P. Metzler. No. 1,348,888; Aug. 10; v. 277; p. 198.
Vehicle, Occupant-propelled. W. D. Smith. No. 1,350,577; Aug. 24; v. 277; p. 649.
Vehicle-operating mechanism. E. Gruenfeldt. No. 1,350,450; Aug. 24; v. 277; p. 623.
Vehicle operation, System of electric-. J. M. Klingelsmith. No. 1,335,243; Mar. 30; v. 272; p. 797.
Vehicle-pole. J. H. Anderson. (Reissue.) No. 15,015; Dec. 28; v. 281; p. 743.
Vehicle, Power-propelled. W. A. Doble. No. 1,354,898; Oct. 5; v. 279; p. 90.
Vehicle-propelling attachment, Motor-. O. E. Haglund. No. 1,354,103; Sept. 28; v. 278; p. 610.
Vehicle-rack, Convertible. W. J. Hempy. No. 1,351,475; Aug. 31; v. 277; p. 886.
Vehicle radiator, Motor-. R. J. McCredie. No. 1,338,668; Mar. 16; v. 272; p. 395.
Vehicle rear-end signal. S. Hara. No. 1,355,077; Oct. 5; v. 279; p. 125.
Vehicle rebound-check. C. S. Burton. No. 1,337,996; Apr. 27; v. 273; p. 638.
Vehicle, Road-. J. C. Bonner. No. 1,333,290; Mar. 9; v. 272; p. 263.
Vehicle-route-indicator device. E. Siegel. No. 1,350,244; Aug. 17; v. 277; p. 536.
Vehicle safety baby-holder for use with motor-vehicles, buggies, carriages, &c. H. J. Sweyer. No. 1,348,334; Aug. 3; v. 277; p. 40.
Vehicle-seat. J. E. Disheroon. No. 1,330,308; Feb. 10; v. 271; p. 211.
Vehicle, Self-laying-track. E. E. Wickersham. No. 1,329,316; Jan. 27; v. 270; p. 582.
Vehicle, Self-propelled. C. J. Allen. No. 1,349,997; Aug. 17; v. 277; p. 488.
Vehicle, Self-propelled. O. Armleder. No. 1,351,199; Aug. 31; v. 277; p. 831.
Vehicle, Self-propelled. J. O. Hamel. No. 1,342,440; June 8; v. 275; p. 215.
Vehicle, Self-propelled. H. T. Preble. No. 1,344,353; June 22; v. 275; p. 719.
Vehicle, Self-propelled. W. Turnbull. No. 1,329,314; Jan. 27; v. 270; p. 583.
Vehicle, Self-propelled. R. A. Wakefield. No. 1,336,935; Apr. 13; v. 273; p. 294.
Vehicle, Self-propelled. R. M. Willis. No. 1,344,108; June 22; v. 275; p. 671.
Vehicle-shackle. E. E. Chapman. No. 1,343,709; June 15; v. 275; p. 528.
Vehicle-shaft coupling. E. B. Johnson. No. 1,332,843; Mar. 2; v. 272; p. 32.
Vehicle-shaft support. H. Harden. No. 1,348,109; July 27; v. 276; p. 728.
Vehicle shock-absorber. W. N. Amory. No. 1,337,579; Apr. 20; v. 273; p. 490.
Vehicle-signal. J. G. Frieman. No. 1,363,863; Dec. 28; v. 281; p. 706.
Vehicle-signal. S. E. Hallen. No. 1,350,969; Aug. 24; v. 277; p. 723.
Vehicle-signal. J. T. Koteckl. No. 1,356,635; Oct. 26; v. 279; p. 569.
Vehicle-signal. J. J. Lanahan. No. 1,357,064; Oct. 26; v. 279; p. 654.
Vehicle-signal. E. C. Moore. No. 1,334,779; Mar. 23; v. 272; p. 650.
Vehicle-signal. T. B. Powers. No. 1,334,047; Mar. 16; v. 272; p. 467.
Vehicle-signal. P. V. Tamietti. No. 1,336,106; Apr. 6; v. 273; p. 76.
Vehicle-signal. W. E. Taynton. No. 1,355,578; Oct. 12; v. 279; p. 275.
Vehicle-signal. W. R. Tonkin. No. 1,339,589; May 11; v. 274; p. 251.
Vehicle signal apparatus. J. W. Brenkert. No. 1,331,860; Feb. 24; v. 271; p. 592.
Vehicle signal device. P. Niewiarowski. No. 1,353,359; Sept. 21; v. 278; p. 416.
Vehicle signal, Motor-. L. A. Cottrell and W. B. Holloway. No. 1,329,957; Feb. 3; v. 271; p. 115.
Vehicle signal, Motor-. E. P. Gedchild. No. 1,347,945; July 27; v. 276; p. 694.
Vehicle signal, Motor-. J. B. Merwin. No. 1,351,260; Aug. 31; v. 277; p. 842.
Vehicle signal, Motor-. P. H. Wolbaardt. No. 1,338,114; Apr. 27; v. 273; p. 661.
Vehicle signaling device. C. H. Grings. No. 1,358,438; Nov. 9; v. 280; p. 302.
Vehicle signaling device. A. J. Hilger and R. Urchniak. No. 1,338,078; Apr. 27; v. 273; p. 654.
Vehicle signaling device, Motor-. M. Tibbetts. No. 1,327,124; Jan. 6; v. 270; p. 46.
Vehicle-spring. C. Bergstrom. No. 1,329,695; Feb. 3; v. 271; p. 65.
Vehicle-spring. E. Clark. No. 1,338,854; May 4; v. 274; p. 38.
Vehicle-spring. F. V. Cooke. No. 1,344,792; June 29; v. 275; p. 871.
Vehicle-spring. A. Hallner. No. 1,344,204; June 22; v. 275; p. 689.
Vehicle-spring. A. H. Harris. No. 1,333,976; Mar. 16; v. 272; p. 453.
Vehicle-spring. A. H. Harris. No. 1,333,977; Mar. 16; v. 272; p. 453.
Vehicle-spring. A. O. Hunsaker and J. C. Woodmancy. No. 1,359,705; Nov. 23; v. 280; p. 640.
Vehicle-spring. J. B. Kincer. No. 1,341,805; June 1; v. 275; p. 38.
Vehicle-spring. I. D. Lengel and S. S. Shears. No. 1,336,468; Apr. 13; v. 273; p. 204.
Vehicle-spring. J. A. Luke. No. 1,351,111; Aug. 31; v. 277; p. 813.
Vehicle-spring. M. M. McIntyre. No. 1,327,958; Jan. 13; v. 270; p. 262.
Vehicle-spring. M. M. McIntyre. No. 1,348,726; Aug. 3; v. 277; p. 115.
Vehicle-spring. M. L. Riggs. No. 1,350,942; Aug. 24; v. 277; p. 718.
Vehicle-spring. T. D. Robinson. No. 1,334,403; Mar. 23; v. 272; p. 580.
Vehicle-spring. S. A. Smith. No. 1,338,999; Mar. 16; v. 272; p. 457.
Vehicle-spring. P. Smith. No. 1,351,306; Aug. 31; v. 277; p. 852.
Vehicle-spring. C. W. Thompson. No. 1,329,561; Feb. 3; v. 271; p. 41.
Vehicle-spring. C. W. Thompson. No. 1,363,541; Dec. 28; v. 281; p. 643.
Vehicle-spring. J. G. Utz. No. 1,330,923; Feb. 17; v. 271; p. 396.
Vehicle-spring. F. J. Wolff. No. 1,327,750; Jan. 13; v. 270; p. 224.
Vehicle spring and axle connection. F. Booth. No. 1,334,883; Mar. 23; v. 272; p. 671.
Vehicle-spring bracket. F. C. Ewing. No. 1,336,829; Apr. 13; v. 273; p. 273.
Vehicle-spring construction. W. H. Hill. No. 1,334,700; Mar. 23; v. 272; p. 634.
Vehicle-spring construction. F. H. Lawton. No. 1,362,254; Dec. 14; v. 281; p. 301.
Vehicle-spring lubricator. C. E. Menefee. No. 1,331,962; Feb. 24; v. 271; p. 611.
Vehicle-spring lubricator. W. H. Thiemer. No. 1,329,642; Feb. 3; v. 271; p. 55.
Vehicle-spring, Self-oiling. E. J. Jackson. No. 1,343,453; June 15; v. 275; p. 476.
Vehicle-spring shackle. J. J. Crawford. No. 1,338,557; Apr. 27; v. 273; p. 744.
Vehicle spring suspension. W. E. Bock. No. 1,361,002; Dec. 7; v. 281; p. 4.
Vehicle-spring suspension. E. J. Bushey. No. 1,347,494; July 27; v. 276; p. 605.
Vehicle-spring suspension. C. K. Edwards. No. 1,349,332; Aug. 10; v. 277; p. 286.
Vehicle spring suspension. E. C. Geissberger. No. 1,347,154; July 20; v. 276; p. 481.
Vehicle spring suspension. M. M. McIntyre. No. 1,363,800; Dec. 28; v. 281; p. 693.
Vehicle spring suspension. R. S. Trott. No. 1,327,746; Jan. 13; v. 270; p. 223.
Vehicle spring suspension. G. F. Zucker. No. 1,327,076; Jan. 6; v. 270; p. 37.
Vehicle steering device. C. W. Mott. No. 1,343,225; June 15; v. 275; p. 433.
Vehicle supply outfit. L. M. Boyle. No. 1,327,223; Jan. 6; v. 270; p. 65.
Vehicle suspension. P. H. Johnson. No. 1,329,709; Feb. 3; v. 271; p. 79.
Vehicle suspension and shock-absorber. F. O. Boswell. No. 1,340,434; May 18; v. 274; p. 468.
Vehicle suspension means. P. H. Johnson. No. 1,330,119; Feb. 10; v. 271; p. 177.
Vehicle, Tank-. A. Davis, Jr. No. 1,332,614; Mar. 2; v. 272; p. 84.
Vehicle-tank. L. N. Palmer. No. 1,329,998; Feb. 3; v. 271; p. 122.
Vehicle-top. A. A. Augustus. No. 1,340,518; May 18; v. 274; p. 484.
Vehicle-top. W. F. C. Buesing. No. 1,357,220; Nov. 2; v. 280; p. 4.
Vehicle-top. F. H. Hall. No. 1,345,174; June 29; v. 275; p. 943.
Vehicle-top. W. A. Henderson. No. 1,338,446; Apr. 27; v. 273; p. 723.
Vehicle-top. A. H. Hughes and H. S. Curren. No. 1,360,407; Nov. 30; v. 280; p. 846.
Vehicle-top. J. E. Karl. No. 1,356,921; Oct. 26; v. 279; p. 625.
Vehicle-top. F. K. Lewis. No. 1,353,129; Sept. 14; v. 278; p. 311.
Vehicle top. F. L. Tesmer. (Reissue.) No. 14,982; Nov. 9; v. 280; p. 353.
Vehicle-top. P. O. Witté. No. 1,335,085; Mar. 30; v. 272; p. 769.
Vehicle-top, Collapsible. G. M. Taber. No. 1,334,568; Mar. 23; v. 272; p. 611.

Digitized by Google

Vehicle-top, Disappearing. H. M. Groomes. No. 1,338,844; Mar. 16; v. 272; p. 428.
Vehicle-top, Folding. E. Wotton. No. 1,361,950; Dec. 14; v. 281; p. 241.
Vehicle top, Motor-. M. Buch. No. 1,330,840; Feb. 17; v. 271; p. 379.
Vehicle-tops, Fastening device for. H. T. Wittich. No. 1,348,917; Aug. 10; v. 277; p. 204.
Vehicle-towing device. E. Yoder. No. 1,342,079; June 1; v. 275; p. 91.
Vehicle, Traction-. O. D. Richardson. No. 1,342,761; June 8; v. 275; p. 278.
Vehicle traction apparatus, Motor-. H. Cook. No. 1,358,934; Nov. 16; v. 280; p. 446.
Vehicle, Tractor-. H. J. Burke. No. 1,349,812; Aug. 17; v. 277; p. 453.
Vehicle, Trailer-. J. Knapp. No. 1,328,048; Jan. 13; v. 270; p. 280.
Vehicle, Two-wheeled motor-. A. Duresen. No. 1,339,554; May 11; v. 274; p. 244.
Vehicle understructure and body construction. H. G. Moore. No. 1,359,906; Nov. 23; v. 280; p. 680.
Vehicle-wheel. W. N. Allan. No. 1,340,592; May 18; v. 274; p. 498.
Vehicle-wheel. W. N. Allan. No. 1,340,593; May 18; v. 274; p. 498.
Vehicle-wheel. W. N. Allan. No. 1,353,700; Sept. 21; v. 278; p. 485.
Vehicle-wheel. H. N. Atwood. No. 1,348,533; Aug. 3; v. 277; p. 78.
Vehicle-wheel. A. S. Baldwin. No. 1,352,168; Sept. 7; v. 278; p. 87.
Vehicle-wheel. F. C. Bargar. No. 1,359,949; Nov. 23; v. 280; p. 689.
Vehicle-wheel. R. B. Bostwick. No. 1,363,951; Dec. 28; v. 281; p. 722.
Vehicle-wheel. C. R. Boyer. No. 1,362,922; Dec. 21; v. 281; p. 482.
Vehicle-wheel. H. F. Brandt. No. 1,354,163; Sept. 28; v. 278; p. 621.
Vehicle-wheel. R. S. Bryant No. 1,342,622; June 8; v. 275; p. 249.
Vehicle-wheel. J. P. Copland. No. 1,357,615; Nov. 2; v. 280; p. 78.
Vehicle-wheel. G. W. Dague. No. 1,335,939; Apr. 6; v. 273; p. 44.
Vehicle-wheel lock. L. M. Egbert. No. 1,361,756; Dec. 7; v. 281; p. 155.
Vehicle-wheel. F. L. Fernandez. No. 1,340,944; May 25; v. 274; p. 635.
Vehicle-wheel. F. A. Frommann. No. 1,348,165; Aug. 3; v. 277; p. 6.
Vehicle-wheel. J. E. Harrigan. No. 1,332,721; Mar. 2; v 272; p. 104.
Vehicle-wheel. L. Hofmeister. No. 1,350,457; Aug. 24; v. 277; p. 625.
Vehicle-wheel. A. Jakovleff. No. 1,343,567; June 15; v. 275; p. 500.
Vehicle-wheel. L. F. Jordan. No. 1,338,634; Apr. 27; v. 273; p. 758.
Vehicle-wheel. L. F. Jordan. No. 1,351,252; Aug. 31; v. 277; p. 841.
Vehicle-wheel. C. E. P. Julien. No. 1,344,512; June 22; v. 275; p. 751.
Vehicle-wheel. N. Krupsky. No. 1,359,254; Nov. 16; v. 280; p. 505.
Vehicle-wheel. C. Macbeth. No. 1,351,052; Aug. 31; v. 277; p. 802.
Vehicle-wheel. W. M. Mansfield. No. 1,327,843; Jan. 6; v. 270; p. 86.
Vehicle-wheel. C. A. Marien. No. 1,331,575; Feb. 24; v. 271; p. 537.
Vehicle-wheel. A. Mills. No. 1,350,617; Aug. 24; v. 277; p. 656.
Vehicle-wheel. F. Palombo. No. 1,333,770; Mar. 16; v. 272; p. 414.
Vehicle-wheel. W. M. Parham. No. 1,349,730; Aug. 17; v. 277; p. 438.
Vehicle-wheel. O. A. Parker. No. 1,357,723; Nov. 2; v. 280; p. 99.
Vehicle-wheel. N. Renner. No. 1,345,506; July 6; v. 276; p. 35.
Vehicle-wheel. H. D. Rey. No. 1,335,679; Mar. 16; v. 272; p. 397.
Vehicle-wheel. H. D. Rey. No. 1,333,680; Mar. 16; v. 272; p. 898.
Vehicle-wheel. B. W. Roth. No. 1,351,345; Aug. 31; v. 277; p. 860.
Vehicle-wheel. W. E. Sherwood. No. 1,330,096; Feb. 10; v. 271; p. 172.
Vehicle-wheel. H. H. Taylor. No. 1,345,281; June 29; v. 275; p. 964.
Vehicle-wheel. E. A. Thompson. No. 1,352,639; Sept. 14; v. 278; p. 214.
Vehicle-wheel. M. Tibbetts. No. 1,330,222; Feb. 10; v. 271; p. 196.
Vehicle-wheel. N. J. Verret. No. 1,332,781; Mar. 2; v. 272; p. 116.
Vehicle-wheel. C. E. Walling. No. 1,338,471; Apr. 27; v. 273; p. 728.
Vehicle-wheel. T. V. Washburn. No. 1,354,269; Sept. 28; v. 278; p. 643.
Vehicle-wheel. J. Zielisko. No. 1,327,849; Jan. 13; v. 270; p. 242.
Vehicle-wheel, Cast. W. S. Allen. No. 1,353,819; Sept. 28; v. 278; p. 551.
Vehicle-wheel, Demountable-rim. A. H. Shoemaker. No. 1,354,221; Sept. 28; v. 278; p. 633.
Vehicle wheel, Motor-. E. K. Baker. No. 1,336,335; Apr. 6; v. 273; p. 119.
Vehicle-wheel, Metal. L. E. Wood. No. 1,357,266; Nov. 2; v. 280; p. 13.
Vehicle-wheel, Resilient. R. L. Wilson. No. 1,352,858; Sept. 14; v. 278; p. 259.
Vehicle-wheel rim. W. G. Adams. No. 1,355,641; Oct. 12; v. 279; p. 287.
Vehicle wheel, Road-. R. J. Treen. No. 1,363,975; Dec. 28; v. 281; p. 276.
Vehicle-wheels, Antiskid-chain for. E. Cox. No. 1,362,851; Dec. 21; v. 281; p. 469.
Vehicle, Wheeled. P. W. Swern. No. 1,363,442; Dec. 28; v. 281; p. 623.
Vehicle-windshields, Combined sunshade and vizor for. M. R. Hull. No. 1,363,510; Dec. 28; v. 281; p. 637.
Vehicle with two or more pairs of driving-wheels. U. Pavesi. No. 1,353,848; Sept. 28; v. 278; p. 557.
Vehicles, Accessory for motor-. J. Bijur. No. 1,362,772; Dec. 21; v. 281; p. 454.
Vehicles, Adjustable frame for shipping. G. A. Bouvier. No. 1,350,699; Aug. 24; v. 277; p. 672.
Vehicles, Adjustable lamp-support for motor-. R. A. Frisbie. No. 1,339,449; May 11; v. 274; p. 224.
Vehicles, Adjustable shaft-hanger for motor-. H. R. Williams. No. 1,342,143; June 1; v. 275; p. 104.
Vehicles, Animated advertising device for moving. E. A. Gray and L. C. Norman. No. 1,359,984; Nov. 23; v. 280; p. 695.
Vehicles and airplanes, Fuel-feeding device for. W. H. Muzzy. No. 1,338,323; Apr. 27; v. 273; p. 700.
Vehicles, Antiskid device for motor-. H. Bell. No. 1,353,560; Sept. 21; v. 278; p. 456.
Vehicles, Apparatus for stopping. J. J. Keenan. No. 1,356,922; Oct. 26; v. 279; p. 625.
Vehicles, Apparatus for utilizing the trepidations of. M. A. Canale and R. Frias. No. 1,340,013; May 11; v. 274; p. 331.
Vehicles, Apparatuses and process for cooling. C. W. McCoy. No. 1,342,123; June 1; v. 275; p. 100.
Vehicles, Attachment for motor-. D. L. Stroud. No. 1,345,278; June 29; v. 275; p. 963.
Vehicles, Audible alarm for. L. H. Morgan. No. 1,349,467; Aug. 10; v. 277; p. 312.
Vehicles, Audible signal for motor-. C. C. Conlee. No. 1,348,930; Aug. 10; v. 277; p. 207.
Vehicles, Automatic draw-bar coupling for. A. L. Cooper. No. 1,337,391; Apr. 20; v. 273; p. 454.
Vehicles, Automatic gear-shift for motor-. B. Carl. No. 1,354,724; Oct. 5; v. 279; p. 56.
Vehicles, Automatic speed-controller for moving. P. J. Simmen. No. 1,350,476; Aug. 24; v. 277; p. 629.
Vehicles, Automatic steering attachment for motor-. B. H. Pegram. No. 1,354,417; Sept. 28; v. 278; p. 673.
Vehicles, Automatic steering device for. R. de Filippis. No. 1,357,491; Nov. 2; v. 280; p. 54.
Vehicles, Auxiliary spring for motor-. D. Nettenstrom. No. 1,336,481; Apr. 13; v. 273; p. 206.
Vehicles, Auxiliary traction-wheel for motor-. H. G. Steele. No. 1,337,672; Apr. 20; v. 273; p. 507.
Vehicles, Auxiliary tractor for motor-. G. H. Davis and W. G. Griffin. No. 1,340,024; May 11; v. 274; p. 333.
Vehicles, Body structure for road-. A. V. Roe. No. 1,347,592; July 27; v. 276; p. 625.
Vehicles, Bucket-hook for tank-. A. Davis, Jr. No. 1,330,623; Feb. 10; v. 271; p. 270.
Vehicles, Bumper for motor-. R. Tossell. No. 1,354,633; Oct. 5; v. 279; p. 38.
Vehicles, Cape cart-hood for use on motor-. M. Buch. No. 1,349,045; Aug. 10; v. 277; p. 229.
Vehicles, Clear-vision wind-shield for. W. de F. Crowell. No. 1,334,740; Mar. 23; v. 272; p. 642.
Vehicles, Clear-vision windshield for. W. de F. Crowell. No. 1,361,231; Dec. 7; v. 281; p. 50.
Vehicles, Clutch and transmission mechanism for motor road-. G. E. D. Ralls. No. 1,338,252; Apr. 27; v. 273; p. 687.
Vehicles, Clutch-lever stop for motor-. S. G. Warner. No. 1,344,602; June 22; v. 275; p. 769.
Vehicles, Combined bonnet and car-body for automobile-. C. M. Motte. No. 1,343,519; June 15; v. 275; p. 490.
Vehicles, Combined collision-buffer and direction-indicator for. F. C. Zahnow. No. 1,337,872; Apr. 20; v. 273; p. 546.
Vehicles, Combined driving and steering wheel for motor-. W. J. Evans and F. M. Scott. No. 1,333,908; Mar. 16; v. 272; p. 440.
Vehicles, Combined foot support and heater for. A. Zecchini and I. Panza. No. 1,361,954; Dec. 14; v. 281; p. 242.
Vehicles, Combined generator and lamp for moving. H. R. Van Deventer. No. 1,355,581; Oct. 12; v. 279; p. 276.
Vehicles, Combined identification device, tag-seal carrier, and front and rear light for motor-. O. J. Trenis. No. 1,356,499; Oct. 19; v. 279; p. 495.
Vehicles, Combined spring and lever suspension for. C. Drabek. No. 1,359,677; Nov. 23; v. 280; p. 634.

Vehicles, Compensating driving mechanism for motor-. H. R. Kidney. No. 1,351,761; Sept. 7; v. 278; p. 9.
Vehicles, Construction and arrangement of motor-. M. C. I. Hunter. No. 1,361,864; Dec. 14; v. 281; p. 224.
Vehicles, Construction of bodies of motor and other. F. M. Charles. No. 1,342,664; June 8; v. 275; p. 257.
Vehicles, Control for electric-lighting systems on. J. H. Griswold and O. H. Lutz. No. 1,361,048; Dec. 7; v. 281; p. 14.
Vehicles, Crowd-resisting apron or guard for motor-. W. A. Moran. No. 1,356,874; Oct. 26; v. 279; p. 616.
Vehicles, Cushioning-spring support for. A. M. Crunican. No. 1,357,959; Nov. 9; v. 280; p. 206.
Vehicles, Dashboard for motor-. L. Seguin. No. 1,353,427; Sept. 21; v. 278; p. 429.
Vehicles, Demountable rim for. C. C. Hanch and R. A. Brannigan. No. 1,334,153; Mar. 16; v. 272; p. 486.
Vehicles, Demountable-rim support for motor-. W. N. Booth. No. 1,354,161; Sept. 28; v. 278; p. 621.
Vehicles, Device for regulating the temperature in closed. C. H. Woodward. No. 1,355,205; Oct. 12; v. 279; p. 203.
Vehicles, Device for stopping high-power. J. B. Strauss. No. 1,332,237; Mar. 2; v. 272; p. 12.
Vehicles, Differential driving mechanism for motor-. J. L. Mapes. No. 1,360,428; Nov. 30; v. 280; p. 850.
Vehicles, Differential for self-propelling. J. R. Lowry. No. 1,336,643; Apr. 13; v. 273; p. 237.
Vehicles, Differential mechanism for front and rear driven. I. I. Wiggins. No. 1,350,194; Aug. 17; v. 277; p. 527.
Vehicles, Direction-indicator and tail-light for. J. Klunder. No. 1,351,913; Sept. 7; v. 278; p. 40.
Vehicles, Direction-indicator for. C. W. Spencer. No. 1,362,752; Dec. 21; v. 281; p. 450.
Vehicles, Direction-indicator for. W. R. Stevens. No. 1,335,355; Mar. 30; v. 272; p. 819.
Vehicles, Direction-indicator for. F. H. Sweeney. No. 1,352,327; Sept. 7; v. 278; p. 118.
Vehicles, Direction-indicator for dirigible. W. Pendziwiater. No. 1,337,848; Apr. 20; v. 273; p. 541.
Vehicles, Direction-indicator for motor-. G. E. Bates. No. 1,355,528; Oct. 12; v. 279; p. 266.
Vehicles, Direction-indicator for motor-. N. C. Briggs. No. 1,329,750; Feb. 3; v. 271; p. 75.
Vehicles, Direction-indicator for road-. E. G. Archer. No. 1,337,991; Apr. 27; v. 273; p. 638.
Vehicles, Direction-signal for motor-. M. Clarke and J. J. Murray. No. 1,331,094; Feb. 17; v. 271; p. 428.
Vehicles, Direction-signal for motor-. T. J. Markert. No. 1,361,270; Dec. 7; v. 281; p. 57.
Vehicles, Disk wheel and hub for. R. C. Hoffman. No. 1,341,465; May 25; v. 274; p. 737.
Vehicles, Door-operating means for passenger-. J. S. McWhirter. No. 1,335,288; Mar. 30; v. 272; p. 806.
Vehicles, Draft appliance for railway-. W. McConway, Jr. No. 1,362,022; Dec. 14; v. 281; p. 255.
Vehicles, Draft attachment for wheeled. A. Bays. No. 1,335,639; Mar. 30; v. 272; p. 872.
Vehicles, Draft-hitch for tractor-. A. J. Colwell and A. T. Kenney. No. 1,329,581; Feb. 3; v. 271; p. 45.
Vehicles, Draw-bar balance for. F. Müller. No. 1,333,932; Mar. 16; v. 272; p. 444.
Vehicles, Driving-axle construction for. E. T. Ross and M. O. Trudeau. No. 1,338,042; Apr. 27; v. 273; p. 647.
Vehicles, Driving mechanism for motor-. W. O. Kuhn. No. 1,341,217; May 25; v. 274; p. 688.
Vehicles, Driving mechanism for motor-. C. E. Starr. No. 1,362,360; Dec. 14; v. 281; p. 321.
Vehicles, Driving mechanism for motor-. C. E. Starr. No. 1,362,361; Dec. 14; v. 281; p. 322.
Vehicles, Dump-body for. F. L. Williams. No. 1,363,945; Dec. 28; v. 281; p. 721.
Vehicles, Dumping-body for. L. B. Nelson. No. 1,353,062; Sept. 14; v. 278; p. 299.
Vehicles, Electrical system for motor-. M. Hirsch. No. 1,352,266; Sept. 7; v. 278; p. 106.
Vehicles, Electromagnetic brake for motor road-. G. Pollard. No. 1,328,966; Jan. 27; v. 270; p. 519.
Vehicles, Electromagnetic friction-brake more especially intended for the driving and change-speed gear of motor road-. G. Pollard. No. 1,334,791; Mar. 23; v. 272; p. 653.
Vehicles, Emergency-bumper for. F. R. L. Stott and E. E. Shierk. No. 1,355,182; Oct. 12; v. 279; p. 198.
Vehicles, Engine-attaching means for. R. E. Petrie. No. 1,326,960; Jan. 6; v. 270; p. 15.
Vehicles, Exhaust-gas-actuated cooling device for motor-. J. Guttenstein. No. 1,362,293; Dec. 14; v. 281; p. 309.
Vehicles, Extensible lamp for. E. G. K. Anderson. No. 1,361,434; Dec. 7; v. 281; p. 92.
Vehicles, Fluid-brake for motor-. F. G. Hultenheim. No. 1,338,302; Apr. 27; v. 273; p. 698.
Vehicles, Foldable body for motor-. R. M. Freeman. No. 1,329,894; Feb. 3; v. 271; p. 103.
Vehicles, Folding top for. W. S. Rawson. No. 1,347,553; July 27; v. 276; p. 617.
Vehicles, Folding top for. W. S. Rawson. No. 1,347,554; July 26; v. 276; p. 617.
Vehicles, Friction driving mechanism for motor road and other. C. F. Beauvais. No. 1,359,950; Nov. 23; v. 280; p. 689.
Vehicles, Friction-gearing for motor-. H. E. Stonebraker. No. 1,328,346; Jan. 20; v. 270; p. 373.
Vehicles, Friction transmission for motor-driven. G. B. Jackson. No. 1,327,206; Jan. 6; v. 270; p. 61.
Vehicles, Front-end suspension structure for self-propelled. C. E. Mills. No. 1,348,512; Aug. 3; v. 277; p. 74.
Vehicles, Front-wheel driving and steering mechanism for horseless. F. J. Baker. No. 1,360,710; Nov. 30; v. 280; p. 906.
Vehicles, Gas-producer for propelling. D. J. Smith. No. 1,327,495; Jan. 6; v. 270; p. 115.
Vehicles, Gear-shifting mechanism for motor-. W. L. Fergus. No. 1,331,426; Feb. 17; v. 271; p. 489.
Vehicles, Grease-retainer for axles of motor-. J. H. Williams. No. 1,343,603; June 15; v. 275; p. 506.
Vehicles having wheels and endless trucks, Transmission mechanism for automobile-. E. Rimailho. No. 1,360,022; Nov. 23; v. 280; p. 703.
Vehicles, Hoisting apparatus for. W. Sanderson. No. 1,343,283; June 15; v. 275; p. 444.
Vehicles, Hoisting mechanism for dumping-. W. Sanderson. No. 1,332,308; Mar. 2; v. 272; p. 25.
Vehicles, Holder for motor-. H. O. Gibson and E. F. Ames. No. 1,346,949; July 20; v. 276; p. 441.
Vehicles, Hood or cover for motor road-. F. L. Rapson. No. 1,360,579; Nov. 30; v. 280; p. 880.
Vehicles, Identification-plate for motor and other. K. Penman. No. 1,359,836; Nov. 23; v. 280; p. 666.
Vehicles, Indicating device for. C. P. Diemer. No. 1,329,043; Jan. 27; v. 270; p. 533.
Vehicles, Indicating device for self-propelled. G. S. Witham, Jr. No. 1,359,944; Nov. 23; v. 280; p. 707.
Vehicles, License-holder for motor-. C. H. Fawcett. No. 1,330,067; Feb. 10; v. 271; p. 166.
Vehicles, Lifting apparatus for motor road-. F. Coultas and A. Pick. No. 1,327,905; Jan. 13; v. 270; p. 253.
Vehicles, Lifting-jack and the like for use on motor road and other. F. L. Rapson. No. 1,354,888; Sept. 28; v. 278; p. 657.
Vehicles, Liquid jacking apparatus for motor-. E. Graham and G. Bowman. No. 1,327,670; Jan. 13; v. 270; p. 209.
Vehicles, Load-equalizer for. J. M. Larsh. No. 1,363,327; Dec. 28; v. 281; p. 602.
Vehicles, Loading-indicator for. R. S. Gans. No. 1,355,392; Oct. 12; v. 279; p. 239.
Vehicles, Lock for motor-. M. Farah. No. 1,362,685; Dec. 21; v. 281; p. 436.
Vehicles, Lock for steering-wheels for motor-. J. Pfeifer. No. 1,363,432; Dec. 28; v. 281; p. 621.
Vehicles, Locking device for motor-. M. E. Bassett. No. 1,343,609; June 15; v. 275; p. 508.
Vehicles, Locking device for motor-. P. O. J. Knudsen. No. 1,348,649; Aug. 3; v. 277; p. 101.
Vehicles, Locking mechanism for motor-. J. R. Nichols. No. 1,359,729; Nov. 23; v. 280; p. 644.
Vehicles, Manufacture of tires for wheels of road-. W. W. Beaumont. No. 1,348,200; Aug. 3; v. 277; p. 13.
Vehicles, Means for absorbing the shock on saddles of motor and other. J. P. MacLean. No. 1,333,125; Mar. 9; v. 272; p. 232.
Vehicles, Means for preventing larceny of motor-. M. B. Gleeson. No. 1,362,567; Dec. 14; v. 281; p. 362.
Vehicles, Means for steering motor-. F. L. Rapson. No. 1,343,846; June 15; v. 275; p. 555.
Vehicles, Means for supplying lighting and ignition current for automotive. J. A. Heany. No. 1,347,460; July 20; v. 276; p. 541.
Vehicles, Mechanical starter for motor-. E. J. Bennett. No. 1,358,697; Nov. 16; v. 280; p. 398.
Vehicles, Mechanism for stopping motor-. E. Siebachmeier. No. 1,334,807; Mar. 23; v. 272; p. 655.
Vehicles, Method of and apparatus for hauling limbered. T. H. Brigg. No. 1,331,123; Feb. 17; v. 271; p. 433.
Vehicles, Muffler attachment for motor-. W. F. Hudson. No. 1,336,354; Apr. 6; v. 273; p. 123.
Vehicles, Multiple wheel for road-. C. Corte. No. 1,351,996; Sept. 7; v. 278; p. 56.
Vehicles, Non-skid device for motor-. G. Gunther. No. 1,352,260; Sept. 7; v. 278; p. 105.
Vehicles or implements, Line-drive attachment for motor-propelled. A. V. Rowe. No. 1,355,850; Oct. 19; v. 279; p. 368.
Vehicles or tractors, Registering mechanism for. A. M. Buck. No. 1,340,324; May 18; v. 274; p. 447.
Vehicles, Pneumatic cushion for. L. R. Gruss. No. 1,331,564; Feb. 24; v. 271; p. 535.
Vehicles, Power plant for. P. C. Leidich. No. 1,360,122; Nov. 23; v. 280; p. 723.
Vehicles, Power-transmitting attachment for motor-. W. T. Ellis. No. 1,362,243; Dec. 14; v. 281; p. 299.
Vehicles, Propeller-shaft bearing for motor-. R. J. Burrows. No. 1,335,040; Mar. 30; v. 272; p. 760.
Vehicles, Propelling mechanism for. J. L. Sipples. No. 1,354,423; Sept. 28; v. 278; p. 674.
Vehicles, Propulsion connection for motor-. W. F. Hudson. No. 1,341,615; May 25; v. 274; p. 765.
Vehicles, Propulsion connection for motor-. W. F. Hudson. No. 1,341,616; May 25; v. 274; p. 765.
Vehicles, Propulsion connection for motor-. W. F. Hudson. No. 1,358,079; Nov. 9; v. 280; p. 230.
Vehicles, Pull-out device for motor-. F. A. Snideman. No. 1,340,349; May 18; v. 274; p. 452.

Digitized by Google

Vehicles, Pump for motor-. J. G. Vincent. No. 1,345,902; July 6; v. 276; p. 113.
Vehicles, Radiator for motor-. A. C. Hamilton. No. 1,352,190; Sept. 7; v. 278; p. 91.
Vehicles, Radiator for motor-driven. C. F. Spery. No. 1,354,351; Sept. 28; v. 278; p. 659.
Vehicles, Radiator-mounting for motor-. G. J. Thomas. No. 1,342,191; June 1; v. 275; p. 114.
Vehicles, Radiator-mounting for motor-driven. P. Johnson. No. 1,361,066; Dec. 7; v. 281; p. 17.
Vehicles, Rain-guard for motor-. M. J. Fassel. No. 1,347,218; July 20; v. 276; p. 493.
Vehicle, Rear-axle differential for power-driven. J. E. Thomson. No. 1,336,107; Apr. 6; v. 273; p. 76.
Vehicles, Rear sight for. G. W. Krick. No. 1,363,603; Dec. 28; v. 281; p. 655.
Vehicles, Repair of the axles of motor-. E. Hodges. No. 1,346,202; July 13; v. 276; p. 233.
Vehicles, Roof-deck for. M. R. Hull. No. 1,346,203; July 13; v. 276; p. 234.
Vehicles, Runner-carrier for motor-. J. E. Ollivier. No. 1,346,052; July 6; v. 276; p. 143.
Vehicles, Safety device for road-. W. Lavallee. No. 1,344,238; June 22; v. 275; p. 696.
Vehicles, Safety steering device for motor-. J. Buttner. No. 1,331,801; Feb. 24; v. 271; p. 581.
Vehicles, Sand-distributing apparatus for motor-. G. B. Lamping and J. A. Du Laney. No. 1,354,570; Oct. 5; v. 279; p. 24.
Vehicles, Seepage-intercepting cowl for motor-. H. and L. Hoffman. No. 1,334,372; Mar. 23; v. 272; p. 573.
Vehicles, Semiwood wheel for motor-. E. K. Baker. No. 1,336,336; Apr. 6; v. 273; p. 119.
Vehicles, Semiwood wheel for motor-. E. K. Baker. No. 1,336,338; Apr. 6; v. 273; p. 119.
Vehicles, Shock-absorber for. W. N. Amory. No. 1,334,428; Mar. 23; v. 272; p. 584.
Vehicles, Shock-absorber for. R. P. and W. H. Clark. No. 1,335,557; Mar. 30; v. 272; p. 856.
Vehicles, Shock-absorbing mechanism for motor-. S. L. C. Coleman. No. 1,353,029; Sept. 14; v. 278; p. 294.
Vehicles, Short-circuiting lock for motor-. H. A. Zehringer. No. 1,344,369; June 22; v. 275; p. 722.
Vehicles, Side bumper for. A. H. Sweet. No. 1,358,553; Sept. 21; v. 278; p. 455.
Vehicles, Signal appliance for motor-. C. M. Heid. No. 1,359,476; Nov. 16; v. 280; p. 550.
Vehicles, Signal device for. E. Zadig. No. 1,356,585; Oct. 26; v. 279; p. 550.
Vehicles, Signal device for motor-. R. B. Benjamin. No. 1,336,609; Apr. 13; v. 273; p. 281.
Vehicles, Signal system for moving. L. Ringer. No. 1,340,500; May 18; v. 274; p. 480.
Vehicles, Signaling apparatus for motor-. L. Bartmann. No. 1,355,882; Oct. 19; v. 279; p. 374.
Vehicles, Skid-chain fasteners for motor-. L. D. Johnson and E. J. Biedenkopf. No. 1,342,631; June 8; v. 275; p. 251.
Vehicles, Sleigh-runner attachment for. B. Fisch. No. 1,337,833; Apr. 20; v. 278; p. 538.
Vehicles, Spare wheel for. A. D. Hogg. No. 1,340,485; May 18; v. 274; p. 478.
Vehicles, Speed-change indicator for. H. Rekersdres. No. 1,365,635; July 6; v. 276; p. 60.
Vehicles, Speed-indicating and lighting means for. D. L. Taylor. No. 1,356,097; Oct. 19; v. 279; p. 417.
Vehicles, Spring and axle coupling for wheeled. L. Tausig. No. 1,356,669; Oct. 26; v. 279; p. 576.
Vehicles, Spring suspension for. C. Drabek. (Reissue.) No. 14,718; July 20; v. 267; p. 546.
Vehicles, Spring suspension for motor-. E. A. Nelson. (Reissue.) No. 14,856; May 11; v. 274; p. 355.
Vehicles, Springing of. A. J. Adams. No. 1,332,093; Feb. 24; v. 271; p. 635.
Vehicles, Stake construction. W. F. Norton. No. 1,358,978; Nov. 16; v. 280; p. 453.
Vehicles, Steam-condenser and oil-separator for steam-driven. L. E. Schuch. No. 1,349,007; Aug. 10; v. 277; p. 221.
Vehicles, Steam-turbine-driven. C. Kohler. No. 1,349,282; Aug. 10; v. 277; p. 277.
Vehicles, Steering attachment for. A. Senger. No. 1,355,171; Oct. 12; v. 279; p. 196.
Vehicles, Steering control for motor-. A. Seipp. No. 1,333,738; Mar. 16; v. 272; p. 409.
Vehicles, Steering device for motor-. F. Ellwein. No. 1,337,830; Apr. 20; v. 273; p. 537.
Vehicles, Steering device for motor-. W. S. Morton. No. 1,334,959; Mar. 30; v. 272; p. 744.
Vehicles, Steering device for motor- J. W. Price. No. 1,356,170; Oct. 19; v. 279; p. 432.
Vehicles, Steering device for motor-. W. L. Thompson and W. E. Elam. No. 1,332,313; Mar. 2; v. 272; p. 26.
Vehicles, Steering-gear for motor-. W. H. Appleman. No. 1,345,308; June 28; v. 275; p. 969.
Vehicles, Steering means for. W. B. Oriel. No. 1,359,912; Nov. 23; v. 280; p. 681.
Vehicles, Steering mechanism for motor-operated. C. H. Young. No. 1,352,572; Sept. 14; v. 278; p. 201.
Vehicles, Steering-wheel lock for motor-. P. D. Massoline and L. Ronca. No. 1,353,487; Sept. 21; v. 278; p. 441.
Vehicles, Storing. C. L. Michod. No. 1,347,960; July 27; v. 276; p. 697.
Vehicles, Support for running-boards for. C. B. Baker. No. 1,339,379; May 4; v. 274; p. 135.
Vehicles, Supporting means for motor-. J. A. McGinn. No. 1,363,336; Dec. 28; v. 281; p. 603.
Vehicles, Suspension device for caterpillar-. E. Fuchs. No. 1,336,832; Apr. 13; v. 273; p. 274.
Vehicles, Tank suspension for motor-. B. B. Neuteboom. No. 1,347,051; July 20; v. 276; p. 461.
Vehicles, Theft-alarm for motor-. W. H. Damon. No. 1,332,613; Mar. 2; v. 272; p. 84.
Vehicles, Theft-detecting means for. H. W. Irwin and W. K. Hawk. No. 1,336,745; Apr. 13; v. 273; p. 257.
Vehicles, Three-axled chassis for motor-driven. H. C. H. Mustad. No. 1,332,949; Mar. 9; v. 272; p. 199.
Vehicles, Tire-carrying wheel for motor-. E. K. Baker. No. 1,336,337; Apr. 6; v. 273; p. 119.
Vehicles to their wheels, Device for transmitting the load of wheeled. H. Zoelly. No. 1,331,039; Feb. 17; v. 271; p. 418.
Vehicles, Towing connection for. R. F. McNamara. No. 1,342,507; June 8; v. 275; p. 227.
Vehicles, Towing-dolly for. L. T. and D. S. Kimmerle. No. 1,346,712; July 13; v. 276; p. 335.
Vehicles, Traction device for. J. A. Cowan. No. 1,353,318 Sept. 21; v. 278; p. 408.
Vehicles, Traction device for motor-. G. E. Ballantyne. No. 1,331,839; Feb. 24; v. 271; p. 588.
Vehicles, Traction-lug for. T. J. Bryson. No. 1,349,406; Aug. 10; v. 277; p. 301.
Vehicles, Traction-lug for. V. Schildwachter. No. 1,341,079; May 25; v. 274; p. 662.
Vehicles, Traffic-directing signal for. C. G. Ette. No. 1,358,367; Nov. 9; v. 280; p. 287.
Vehicles, Traffic-signal for. R. L. Atwell. No. 1,351,605; Aug. 31; v. 277; p. 912.
Vehicles, Trailer for motor-driven. T. Sandstrom. No. 1,343,790; June 15; v. 275; p. 544.
Vehicles, Transmission-clutch for motor-. G. W. Wilkin and J. P. Kee. No. 1,330,506; Feb. 10; v. 271; p. 248.
Vehicles, Truck or portable turntable for. C. K. Ernst. No. 1,356,198; Oct. 19; v. 279; p. 437.
Vehicles, Turning mechanism for motor-. J. Riviere. No. 1,335,856; Apr. 6; v. 273; p. 28.
Vehicles, Variable-steering device for. R. de Filippis. No. 1,332,545; Mar. 2; v. 272; p. 71.
Vehicles, Ventilating system for motor-. B. M. Diver. No. 1,361,567; Dec. 7; v. 281; p. 119.
Vehicles, Washbasin for motor-propelled. W. I. Clifford. No. 1,342,843; June 8; v. 275; p. 294.
Vehicles, Wheel for power-driven winter-. K. A. Blystad. No. 1,351,992; Sept. 7; v. 278; p. 55.
Vehicles, Window for moving. S. Schopflocher. No. 1,333,508; Mar. 9; v. 272; p. 304.
Vehicles, Windshield attachment for auto-. A. H. Sweet. No. 1,353,552; Sept. 21; v. 278; p. 454.
Veil. R. Green. No. 1,350,494; Aug. 24; v. 277; p. 632.
Veil-clasp. G. Chapman and L. M. Hill. No. 1,332,287; Mar. 2; v. 272; p. 21.
Velocipede. D. Russo. No. 1,330,011; Feb. 3; v. 271; p. 124.
Velocipede. J. Scanlan. No. 1,342,720; June 8; v. 275; p. 269.
Velocipede and wagon, Combined. E. J. Doyle. No. 1,346,596; July 13; v. 276; p. 312.
Velocipede, Child's. W. Atkins. No. 1,336,879; Apr. 13; v. 273; p. 283.
Velocipede, Child's. G. Eklund. No. 1,332,819; Mar. 2; v. 272; p. 123.
Velocipede, Child's. H. H. Histand. No. 1,348,113; July 27; v. 276; p. 728.
Velocipede-horse. D. H. Markmann and M. A. Demmler. No. 1,340,282; May 18; v. 274; p. 439.
Velocity of a moving body, Means for measuring the. N. H. Hunt. No. 1,352,809; Sept. 14; v. 278; p. 249.
Vending apparatus. R. A. Tribble. No. 1,350,088; Aug. 17; v. 277; p. 506.
Vending apparatus, Coin-controlled. G. K. V. Johanson. No. 1,354,653; Oct. 5; v. 279; p. 41.
Vending-booth, Revolving. G. Sevczov. No. 1,343,794; June 15; v. 275; p. 545.
Vending device. A. B. Simon. No. 1,347,558; July 27; v. 276; p. 618.
Vending-machine. W. E. Goodyear. No. 1,335,493; Mar. 30; v. 272; p. 844.
Vending-machine. A. D. Grover and E. E. Barber. (Reissue.) No. 14,925; July 27; v. 276; p. 735.
Vending-machine. M. H. Harris. No. 1,336,743; Apr. 13; v. 273; p. 257.
Vending-machine. W. C. Mace. No. 1,355,058; Oct. 5; v. 279; p. 121.
Vending-machine. J. H. Mann, Jr. No. 1,341,921; June 1; v. 275; p. 60.
Vending-machine. W. Meyer. No. 1,344,142; June 22; v. 275; p. 677.
Vending-machine. G. W. Miller. No. 1,336,478; Apr. 13; v. 273; p. 205.
Vending-machine. C. N. Ogden. No. 1,327,058; Jan. 6; v. 270; p. 34.
Vending-machine. C. F. Richardson. No. 1,336,389; Apr. 6; v. 273; p. 129.

Digitized by Google

Vending-machine. W. G. Templeton. No. 1,331,830; Feb. 24; v. 271; p. 586.
Vending-machine. W. G. Templeton. No. 1,348,763; Aug. 3; v. 277; p. 122.
Vending-machine. J. Vons. No. 1,351,589; Aug. 31; v. 277; p. 909.
Vending-machine. J. Vons. No. 1,351,590; Aug. 31; v. 277; p. 909.
Vending-machine. C. B. Wright. No. 1,344,160; June 22; v. 275; p. 681.
Vending-machine. W. A. and P. M. Zeidler. No. 1,355,583; Oct. 12; v. 279; p. 276.
Vending-machine, Coin-controlled. A. D. Grover. No. 1,330,073; Feb. 10; v. 271; p. 167.
Vending-machine, Coin-controlled. H. Hanson. No. 1,349,953; Aug. 17; v. 277; p. 479.
Vending-machine, Coin-controlled. C. W. Hobbs and E. A. Copeland. No. 1,348,876; Aug. 10; v. 277; p. 196.
Vending-machine, Coin-controlled. J. L. Meyfarth. No. 1,345,499; July 6; v. 276; p. 34.
Vending-machine, Coin-controlled. W. G. Wilson. No. 1,340,174; May 18; v. 274; p. 419.
Vending machine, Liquid-. D. W. Anthony. No. 1,352,645; Sept. 14; v. 278; p. 216.
Vending machine, Match-. H. Fried. No. 1,357,631; Nov. 2; v. 280; p. 81.
Vending machine, Newspaper-. O. J. Hotaling. No. 1,345,855; July 6; v. 276; p. 103.
Vending machine, Newspaper-. W. H. Miles. No. 1,342,858; June 8; v. 275; p. 297.
Vending machine, Perfume-. G. H. Egbert. No. 1,355,456; Oct. 12; v. 279; p. 252.
Vending-machine, Slot. S. Clapers. No. 1,347,683; July 27; v. 276; p. 642.
Vending machine, Ticket-. F. Simone. No. 1,355,281; Oct. 12; v. 279; p. 218.
Vending-machines, Discharge-closure for. D. E. Neibel. No. 1,358,388; Nov. 9; v. 280; p. 291.
Vending-machines, Magazine-support for. A. D. Grover. No. 1,331,990; Feb. 24; v. 271; p. 616.
Veneer feeding and handling machine. J. C. Donnelly. No. 1,360,275; Nov. 30; v. 280; p. 821.
Veneer-press. H. G. Francis. No. 1,327,815; Jan. 13; v. 270; p. 236.
Veneer, Process of and apparatus for drying wood. J. F. Hope and E. Lambert. No. 1,353,591; Sept. 21; v. 278; p. 463.
Vent for gravity-flow-meter and heater apparatus. J. L. Fitts and W. F. Bilyeu. No. 1,356,135; Oct. 19; v. 279; p. 425.
Vent head. G. M. Redgate. No. 1,354,623; Oct. 5; v. 279; p. 36.
Ventilated body-garment. W. M. Jenkins and W. H. Vaughan. No. 1,363,981; Dec. 28; v. 281; p. 728.
Ventilating and drainage system. W. E. Hughes and J. B. King. No. 1,339,761; May 11; v. 274; p. 284.
Ventilating apparatus. H. F. Schmidt. No. 1,345,638; July 6; v. 276; p. 60.
Ventilating apparatus. L. J. Walker. No. 1,331,297; Feb. 17; v. 271; p. 464.
Ventilating apparatus, Control system for. W. S. Scott. No. 1,358,790; Nov. 16; v. 280; p. 417.
Ventilating device. W. M. Fulton. No. 1,358,193; Nov. 9; v. 280; p. 252.
Ventilating-grating. F. Van Kooy. No. 1,338,759; Mar. 16; v. 272; p. 412.
Ventilating means. S. A. Wellman. No. 1,335,948; Apr. 6; v. 273; p. 46.
Ventilating system. E. Flanagan. No. 1,361,147; Dec. 7; v. 281; p. 33.
Ventilating system. W. G. Forcier. No. 1,348,557; Aug. 3; v. 277; p. 83.
Ventilating system. C. F. Kettering. No. 1,331,649; Feb. 24; v. 271; p. 552.
Ventilating window-section and screen. R. Miller and W. E. Turney. No. 1,344,054; June 22; v. 275; p. 661.
Ventilation system. A. W. Stewart. No. 1,327,120; Jan. 6; v. 270; p. 45.
Ventilation system for transformers. C. G. Jones. No. 1,351,042; Aug. 31; v. 277; p. 800.
Ventilation, Workshop. C. Weller. No. 1,347,195; July 20; v. 276; p. 488.
Ventilator: *See*—
Air-cleaning ventilator.
Automobile-ventilator.
Car-ventilator.
Car-door ventilator.
Closet-ventilator.
Hat-ventilator.
Water-closet ventilator.
Window-ventilator.
Ventilator. J. Andrassy. No. 1,333,651; Mar. 16; v. 272; p. 392.
Ventilator. G. L. Biddle. No. 1,331,950; Feb. 24; v. 271; p. 608.
Ventilator. G. C. Breidert. No. 1,358,412; Nov. 9; v. 280; p. 297.
Ventilator. G. C. Breidert. No. 1,362,982; Dec. 21; v. 281; p. 493.
Ventilator. L. Chapman. No. 1,349,186; Aug. 10; v. 277; p. 257.
Ventilator. O. E. Cloud. No. 1,346,633; July 13; v. 276; p. 319.
Ventilator. C. Evans. No. 1,352,257; Sept. 7; v. 278; p. 104.
Ventilator. F. Graf. No. 1,332,493; Mar. 2; v. 272; p. 61.
Ventilator. C. Hofstetter. No. 1,349,764; Aug. 17; v. 277; p. 444.
Ventilator. S. F. McDonald. No. 1,336,470; Apr. 13; v. 273; p. 204.
Ventilator. H. F. Maranville. No. 1,328,094; Jan. 13; v. 270; p. 288.
Ventilator. W. W. Morey. No. 1,348,513; Aug. 3; v. 277; p. 74.
Ventilator. W. W. Morey. No. 1,362,342; Dec. 14; v. 281; p. 318.
Ventilator. A. F. O'Connor. No. 1,339,973; May 11; v. 274; p. 324.
Ventilator. J. L. Olson. No. 1,362,033; Dec. 14; v. 281; p. 257.
Ventilator. J. E. Palmer. No. 1,358,240; Nov. 9; v. 280; p. 261.
Ventilator. O. H. Reich. No. 1,362,044; Dec. 14; v. 281; p. 260.
Ventilator. N. Renner. No. 1,342,066; June 1; v. 275; p. 89.
Ventilator. J. J. A. Roe. No. 1,340,673; May 18; v. 274; p. 513.
Ventilator. J. Stepin. No. 1,345,514; July 6; v. 276; p. 37.
Ventilator. E. B. Tonnsen. No. 1,332,239; Mar. 2; v. 272; p. 12.
Ventilator. J. C. Turvene. No. 1,337,296; Apr. 20; v. 273; p. 436.
Ventilator and screen, Combined. G. W. Stein. No. 1,331,397; Feb. 17; v. 271; p. 484.
Ventilator and shade, Combined. V. M. Allen. No. 1,346,800; July 13; v. 276; p. 354.
Ventilator and ventilating system. A. K. Pruden. No. 1,327,879; Jan. 13; v. 270; p. 248.
Ventilator attachment. F. C. Smith. No. 1,352,843; Sept. 14; v. 278; p. 256.
Ventilator for light-projectors or lanterns. S. and J. W. Ewart and N. W. Prangnell. No. 1,337,832; Apr. 20; v. 273; p. 538.
Ventilator-operating device. F. K. Reibin. No. 1,358,464; Nov. 9; v. 280; p. 307.
Ventilators or heaters, Air-regulator for. P. Sherwen. No. 1,343,162; June 8; v. 275; p. 357.
Vermin-exterminator. I. N. Keyser. No. 1,352,067; Sept. 7; v. 278; p. 68.
Vermin in clothes, bedding, &c., Disinfecting and destruction of. P. S. Lelean. No. 1,352,289; Sept. 7; v. 278; p. 110.
Vermin-trap. L. G. Young. No. 1,357,267; Nov. 2; v. 280; p. 13.
Vessel. G. P. Altenberg. No. 1,362,831; Dec. 21; v. 281; p. 465.
Vessel. A. McDougall. No. 1,345,610; July 6; v. 276; p. 55.
Vessel. A. McDougall. No. 1,345,611; July 6; v. 276; p. 55.
Vessel. J. H. Schlueter. No. 1,336,866; Apr. 13; v. 273; p. 280.
Vessel, Aerial. A. and J. Deak. No. 1,327,529; Jan. 6; v. 270; p. 121.
Vessel, Air-navigating. H. C. Woerz. No. 1,340,309; May 18; v. 274; p. 444.
Vessel and building same, Reinforced-concrete. A. C. Janni. No. 1,342,408; June 1; v. 275; p. 155.
Vessel, Composite. J. L. Weller. No. 1,331,604; Feb. 24; v. 271; p. 543.
Vessel, Concrete. L. Coke-Hill. No. 1,338,815; May 4; v. 274; p. 31.
Vessel construction. A. McDougall. No. 1,356,993; Oct. 26; v. 279; p. 639.
Vessel-filling device. T. S. Bailey. No. 1,337,743; Apr. 20; v. 273; p. 521.
Vessel leak-stopper. P. B. Viele. No. 1,334,194; Mar. 16; v. 272; p. 493.
Vessel, Marine. J. Bátorfy. No. 1,337,747; Apr. 20; v. 273; p. 522.
Vessel, Marine. W. P. Lay. No. 1,350,259; Aug. 17; v. 277; p. 539.
Vessel, Marine transportation. W. T. Donnelly. No. 1,335,278; Mar. 30; v. 272; p. 804.
Vessel navigable in water, air, or both. C. A. James. No. 1,331,925; Feb. 24; v. 271; p. 604.
Vessel-raising apparatus. M. Burke. No. 1,329,225; Jan. 27; v. 270; p. 568.
Vessel, Self-measuring dispensing. W. Moore. No. 1,328,184; Jan. 13; v. 270; p. 305.
Vessel, Submarine. G. Dorffel. No. 1,336,287; Apr. 6; v. 273; p. 110.
Vessel, Submarine. J. Kuhajda. No. 1,356,294; Oct. 19; v. 279; p. 457.
Vessel, Submarine working and exploration. S. Lake. No. 1,356,773; Oct. 26; v. 279; p. 596.
Vessel, Submersible destroying or salvaging. L. Fink. No. 1,346,743; July 13; v. 276; p. 341.
Vessel with conning tower, Non-sinkable. J. E. Johanssen, J. A. Sether, O. C. Hoff, and C. J. Christensen. No. 1,358,555; Nov. 9; v. 280; p. 325.
Vessels, Accommodation-ladder for marine. E. J. Sims. No. 1,343,094; June 8; v. 275; p. 344.

Digitized by Google

Vessels and land-vehicles, Landing-stage for. A. Gaffney. No. 1,334,445; Mar. 23; v. 272; p. 587.
Vessels, Apparatus for raising sunken. H. M. Meguerditchian. No. 1,337,250; Apr. 20; v. 273; p. 427.
Vessels, Apparatus for raising sunken. F. Staud y Ximenz. No. 1,348,595; Aug. 3; v. 277; p. 90.
Vessels, Apparatus for signaling and recording the course steered by. R. S. O'Neil. No. 1,330,898; Feb. 17; v. 271; p. 391.
Vessels, Applying pressure to the interior of closed. A. E. Guy. No. 1,329,762; Feb. 3; v. 271; p. 78.
Vessels, Bottom for liquid-heating. F. C. Avery and R. E. Thompson. No. 1,342,888; June 8; v. 275; p. 303.
Vessels, Device for raising sunken. W. C. Beckwith. No. 1,331,610; Feb. 24; v. 271; p. 544.
Vessels, Device for raising sunken. W. C. Beckwith. No. 1,353,623; Sept. 21; v. 278; p. 469.
Vessels, Handle for metallic. W. C. Leavitt. No. 1,350,659; Aug. 24; v. 277; p. 664.
Vessels, Hydroplane or horizontal rudder of submarine. W. Reavell. No. 1,343,643; June 15; v. 275; p. 514.
Vessels, Leak-detector for. H. H. Lee. No. 1,348,015; July 27; v. 276; p. 709.
Vessels, Means for salvaging submerged. F. G. Phillips. No. 1,328,014; Jan. 13; v. 270; p. 273.
Vessels, Pontoon for raising sunken. T. G. O. Thurston and A. Hiley. No. 1,341,289; May 25; v. 274; p. 702.
Vessels, Propulsion of. H. E. Yarrow. No. 1,327,510; Jan. 6; v. 270; p. 118.
Vessels, Propulsion of submarine. W. L. R. Emmet. No. 1,345,757; July 6; v. 276; p. 84.
Vessels, Protecting means for. A. Winton. No. 1,337,809; Apr. 20; v. 273; p. 533.
Vessels, Protector for vision-apertures of marine. O. G. H. Kallenbach. No. 1,335,059; Mar. 30; v. 272; p. 763.
Vessels, Rack for draining. L. B. Boehmer. No. 1,363,832; Dec. 28; v. 281; p. 699.
Vessels, Sea-water battery for. A. Bridge. No. 1,332,483; Mar. 2; v. 271; p. 59.
Vessels, Seagoing apparatus for raising sunken. E. B. Petrie. No. 1,363,266; Dec. 28; v. 281; p. 590.
Vessels, System and apparatus for loading. G. H. and F. E. Hulett. No. 1,327,327; Jan. 6; v. 270; p. 83.
Vessels, Towing. T. S. Miller. No. 1,360,968; Nov. 30; v. 280; p. 956.
Vessels, Visible guide for. J. H. Hammond, Jr. No. 1,357,976; Nov. 9; v. 280; p. 209.
Vessels, Water-cooled valve for closing the funnels of submarine. H. E. Yarrow. No. 1,337,110; Apr. 13; v. 273; p. 327.
Vessels with longitudinal framing, Erecting. W. Gatewood. No. 1,357,699; Nov. 2; v. 280; p. 94.
Vest. E. Calkins. No. 1,336,279; Apr. 6; v. 273; p. 108.
Vestibule-diaphragm face-plates, Buffer-spring for. C. E. Eklind. No. 1,354,177; Sept. 28; v. 278; p. 624.
Veterinary float. H. M. Brix. No. 1,347,933; July 27; v. 276; p. 692.
Veterinary surgical table. T. Olinger. No. 1,357,416; Nov. 2; v. 280; p. 41.
Veterinary surgical table. T. Olinger and F. Stalker. No. 1,357,417; Nov. 2; v. 280; p. 41.
Vial-machine. H. F. Hagemeyer. No. 1,335,733; Apr. 6; v. 273; p. 6.
Vial, Perfume-. A. Véricel. No. 1,341,525; May 25; v. 274; p. 748.
Vibration-responsive device. R. Nordenswan. No. 1,330,491; Feb. 10; v. 271; p. 245.
Vibrator. G. P. Elmen. No. 1,339,179; May 4; v. 274; p. 98.
Vibrator. E. N. Goodlett. No. 1,340,860; May 18; v. 274; p. 548.
Vibrator. F. G. Hoffine. No. 1,352,894; Sept. 14; v. 278; p. 266.
Vibrator. H. F. Liedtke. No. 1,346,221; July 13; v. 276; p. 237.
Vibrator. G. B. Pickop. No. 1,336,921; Apr. 13; v. 273; p. 291.
Vibrator. H. Prell. No. 1,352,219; Sept. 7; v. 278; p. 97.
Vibratory movement. G. L. Allen. No. 1,348,770; Aug. 3; v. 277; p. 123.
Vibrator-sterilizing device. R. T. Cleary. No. 1,330,460; Feb. 10; v. 271; p. 240.
View-finder. R. C. Patton. No. 1,331,363; Feb. 17; v. 271; p. 477.
Vine-cutter. F. J. and C. T. Bossert. No. 1,338,281; Apr. 27; v. 273; p. 692.
Vine-cutter. G. L. McCready. No. 1,336,976; Apr. 13; v. 273; p. 301.
Vine-cutter. G. W. Stuart. No. 1,350,529; Aug. 24; v. 277; p. 639.
Vine-lifter. G. W. Ayres. No. 1,339,840; May 11; v. 274; p. 299.
Vine turner and lifter. C. T. McCready. No. 1,349,896; Aug. 17; v. 277; p. 469.
Violin. J. G. Going. No. 1,329,594; Feb. 3; v. 271; p. 47.
Violin attachment. H. Galbraith. No. 1,346,018; July 6; v. 276; p. 135.
Violin attachment. R. C. Ganiere. No. 1,332,621; Mar. 2; v. 272; p. 86.
Violin attachment. E. Lacoste. No. 1,353,763; Sept. 21; v. 278; p. 497.
Violin bass-bar. M. Masterson. No. 1,333,088; Mar. 9; v. 272; p. 226.
Violin-bow. A. Jelinek. No. 1,327,438; Jan. 6; v. 270; p. 103.
Violin-bow gage. C. Sampietro. No. 1,357,189; Oct. 26; v. 279; p. 677.
Violin-bridge. B. J. Champagne. No. 1,362,847; Dec. 21; v. 281; p. 468.
Violin finger-board. R. G. N. Rahne. No. 1,348,894; Aug. 10; v. 277; p. 200.
Violin-mute. H. H. Vanderhoof. No. 1,344,968; June 29; v. 275; p. 903.
Violin-peg. P. D. Brown. No. 1,347,613; July 27; v. 276; p. 628.
Violin-peg. W. J. Burke. No. 1,351,616; Aug. 31; v. 277; p. 914.
Violin-peg. H. Dorrell. No. 1,328,824; Jan. 27; v. 270; p. 491.
Violin, Piano-. C. R. Fleming. No. 1,344,497; June 22; v. 275; p. 748.
Violin sound-post. R. E. Hardee. No. 1,327,157; Jan. 6; v. 270; p. 52.
Violin-string tensioner. E. F. Hafelfinger. No. 1,361,049; Dec. 7; v. 281; p. 14.
Violin-string-tensioning device. W. Bourke. No. 1,361,360; Dec. 7; v. 281; p. 76.
Violin-support. A. Lappalainen. No. 1,337,459; Apr. 20; v. 273; p. 467.
Violin-tailpiece. R. E. Halstead. No. 1,339,196; May 4; v. 274; p. 101.
Violin, viola, and violoncello peg. J. Byrom. No. 1,362,391; Dec. 14; v. 281; p. 327.
Violins of similar musical instruments Bridge of. T. C. Fitt. No. 1,356,439; Oct. 19; v. 279; p. 484.
Violins, Peg-box cover for. F. M. Ashley. No. 1,336,409; Apr. 13; v. 273; p. 193.
Viscose, Manufacture of. L. Lilienfeld. No. 1,355,085; Oct. 19; v. 279; p. 394.
Viscosity-indicator. J. G. Callan. No. 1,331,861; Feb. 24; v. 271; p. 592.
Viscous materials, Mixing. W. F. Traudt. No. 1,355,190; Oct. 12; v. 279; p. 200.
Vise. C. G. Cashman. No. 1,344,862; June 29; v. 275; p. 883.
Vise. M. Cuendet. No. 1,345,665; July 6; v. 276; p. 66.
Vise. L. H. Dallard. No. 1,340,477; May 18; v. 274; p. 476.
Vise. C. S. Evans. No. 1,347,623; July 27; v. 276; p. 631.
Vise. B. M. W. Hanson. No. 1,355,143; Oct. 12; v. 279; p. 190.
Vise. F. G. Harbord. No. 1,361,577; Dec. 7; v. 281; p. 121.
Vise. F. O. Hoagland. No. 1,332,898; Mar. 2; v. 272; p. 43.
Vise. J. O. Holen. No. 1,326,933; Jan. 6; v. 270; p. 10.
Vise. J. E. Hultberg. No. 1,329,602; Feb. 3; v. 271; p. 48.
Vise. J. Maier. No. 1,333,482; Mar. 9; v. 272; p. 289.
Vise. E. A. Minor. No 1,354,991; Oct. 5; v. 279; p. 108.
Vise. R. Parmelee. No. 1,336,754; Apr. 13; v. 273; p. 259.
Vise. R. Parmelee. No. 1,336,755; Apr. 13; v. 273; p. 259.
Vise. D. M. Smith. No. 1,332,864; Mar. 2; v. 272; p. 87.
Vise attachment. F. Lauzetta. No. 1,328,049; Jan. 13; v. 270; p. 280.
Vise attachment. P. F. O'Shaughnessy. No. 1,336,087; Apr. 6; v. 273; p. 72.
Vise, Auto-piston-clamping. J. H. Staley. No. 1,349,632; Aug. 17; v. 277; p. 418.
Vise, Automatic pipe-. G. E. White. No. 1,359,775; Nov. 23; v. 280; p. 654.
Vise, Fluid-operated. J. Ditson. No. 1,349,330; Aug. 10; v. 277; p. 286.
Vise, Hand-. O. N. Shore. No. 1,334,971; Mar. 30; v. 272; p. 747.
Vise-handle. J. H. Bentley. No. 1,350,773; Aug. 24; v. 277; p. 686.
Vise, Machine or other. J. H. Jerrim. No. 1,349,963; Aug. 17; vol. 277; p. 482.
Vise, Parallel bench-. G. E. Cassel. No. 1,352,787; Sept. 14; v. 278; p. 245.
Vise, Pipe-holding. E. J. Brisben. No. 1,340,147; May 18; v. 274; p. 414.
Vises, Supplementary jaws for. G. W. Borchers. No. 1,336,610; Apr. 13; v. 273; p. 231.
Vision-deflector. W. E. Snaman. No. 1,355,498; Oct. 19; v. 279; p. 495.
Vitreous material, marble, &c., Joint for. G. R. Meyercord. No. 1,355,097; Oct. 5; v. 279; p. 129.
Volatile and fermentable matter from liquids, Apparatus for recovering. A. Schaefer. No. 1,342,721; June 8; v. 275; p. 269.
Volatile solvents, Recovering. U. J. Lebourveau and A. M. Taylor. No. 1,355,401; Oct. 12; v. 279; p. 241.
Volatile solvents, Recovering. U. J. Lebourveau and A. M. Taylor. No. 1,355,402; Oct. 12; v. 279; p. 241.
Volt-ampere meter. D. J. Angus. No. 1,342,081; June 1; v. 275; p. 92.

Digitized by Google

Alphabetical list of inventions—Continued.

Volt-ampere meter. D. J. Angus. No. 1,342,082; June 1; v. 275; p. 92.
Voltage control. W. S. Harley. No. 1,328,149; Jan. 13; v. 270; p. 299.
Voltage-protective device. C. T. Allcutt. No. 1,361,800; Dec. 14; v. 281; p. 211.
Voltage protective device, Excess-. Q. A. Brackett. No. 1,345,066; June 29; v. 275; p. 922.
Voting-booth. E. J. Veasey. No. 1,329,731; Feb. 3; v. 271; p. 72.
Voting-machine. W. F. Rivers. No. 1,360,799; Nov. 30; v. 280; p. 924.
Voting-machine. L. J. Timpany. No. 1,328,550; Jan. 20; v. 270; p. 412.
Voting-machine indicating device. B. L. Bobroff. No. 1,328,613; Jan. 20; v. 270; p. 423.
Voting-machine registers, Operating device for. C. H. Veeder. No. 1,342,478; June 8; v. 275; p. 222.
Vulcanized article and producing same. W. B. Pratt. No. 1,349,911; Aug. 17; v. 277; p. 472.
Vulcanized rubber. C. R. Boggs. No. 1,364,055; Dec. 28; v. 281; p. 742.
Vulcanizer. N. M. Anderson. No. 1,359,562; Nov. 23; v. 280; p. 612.
Vulcanizer. G. S. Andrus. No. 1,339,151; May 4; v. 274; p. 93.
Vulcanizer. A. A. Bitter. No. 1,349,039; Aug. 10; v. 277; p. 228.
Vulcanizer. A. A. Dorsey. No. 1,335,783; Apr. 6; v. 273; p. 16.
Vulcanizer. W. Fishbaugh. No. 1,346,085; July 6; v. 276; p. 150.
Vulcanizer. W. A. Gwynn. No. 1,336,220; Apr. 6; v. 273; p. 97.
Vulcaniser. J. C. Heints and G. Ruf. (Reissue.) No. 14,913; July 13; v. 276; p. 855.
Vulcanizer. E. D. Hostler. No. 1,338,569; Apr. 27; v. 273; p. 746.
Vulcanizer. S. J. Hurwits. No. 1,357,984; Nov. 9; v. 280; p. 211.
Vulcaniser. S. Kenchen. No. 1,342,916; June 8; v. 275; p. 309.
Vulcanizer. H. K. Wheelock. No. 1,340,641; May 18; v. 274; p. 507.
Vulcanizer. H. K. Wheelock. No. 1,340,642; May 18; v. 279; p. 508.
Vulcanizer. A. B. Zwebell. No. 1,337,631; Apr. 20; v. 273; p. 499.
Vulcanizer air-bag. J. H. Smith. No. 1,335,353; Mar. 30; v. 272; p. 818.
Vulcanizer, Portable. W. Frost. No. 1,360,962; Nov. 30; v. 280; p. 955.
Vulcanizer, Retread-. E. Harris. No. 1,353,042; Sept. 14; v. 278; p. 295.
Vulcanizer, Retreading-. C. T. Byerley. No. 1,356,597; Oct. 26; v. 279; p. 562.
Vulcanizing. T. A. McAllister. No. 1,340,965; May 25; v. 274; p. 639.
Vulcanizing apparatus. H. R. Auld. No. 1,360,982; Nov. 30; v. 280; p. 959.
Vulcanizing apparatus. O. F. Beck, J. W. Speers, and R. R. Jones. No. 1,350,696; Aug. 24; v. 277; p. 671.
Vulcanizing apparatus. A. J. Brown. No. 1,358,820; Nov. 16; v. 280; p. 423.
Vulcanizing apparatus. P. Deutcher. No. 1,331,982; Feb. 24; v. 271; p. 615.
Vulcanizing apparatus. N. Y. Momitsa. No. 1,362,729; Dec. 21; v. 281; p. 445.
Vulcanizing apparatus. W. S. Robinett. No. 1,349,693; Aug. 17; v. 277; p. 430.
Vulcanizing apparatus, Pressure-clamp for. S. B. Huey. No. 1,354,754; Oct. 5; v. 279; p. 61.
Vulcanizing-machine clamp. O. T. De Long. No. 1,347,213; July 20; v. 276; p. 592.
Vulcanizing-pad. J. N. Dieser. No. 1,353,383; Sept. 21; v. 278; p. 421.
Vulcanizing-press detector. R. D. Whalley. No. 1,337,172; Apr. 13; v. 273; p. 338.
Waffle-iron. F. De Graff. No. 1,336,734; Apr. 13; v. 273; p. 255.
Wagon and automobile dump, Combined. F. J. Leech and W. H. Myers. No. 1,335,585; Mar. 30; v. 272; p. 861.
Wagon and loading means, Dump-. B. A. Sussis. No. 1,334,002; Mar. 16; v. 272; p. 458.
Wagon-bed. O. Johnson. No. 1,332,843; Mar. 2; v. 272; p. 128.
Wagon-bodies, shoveling-board for. A. F. Kuhnen. No. 1,348,651; Aug. 3; v. 277; p. 101.
Wagon-body. F. A. Bradway. No. 1,357,686; Nov. 2; v. 280; p. 92.
Wagon-body. G. F. Kime. No. 1,328,999; Jan. 27; v. 270; p. 525.
Wagon-body. A. F. Kuhnen. No. 1,353,351; Sept. 21; v. 278; p. 415.
Wagon-body lifter. L. C. McCracken. No. 1,353,838; Sept. 28; v. 278; p. 555.
Wagon-boxes, End-board for. M. J. Ostul. No. 1,355,253; Oct. 12; v. 279; p. 212.
Wagon-brake. H. M. Friesen. No. 1,359,350; Nov. 16; v. 280; p. 525.
Wagon-brake. R. L. Haney. No. 1,336,956; Apr. 13; v. 273; p. 298.
Wagon-brake. E. B. Harris. No. 1,342,381; June 1; v. 275; p. 149.
Wagon-brake. J. S. Lockard. No. 1,336,909; Apr. 13; v. 273; p. 289.
Wagon-brake. E. W. Tucker. No. 1,340,743; May 18; v. 274; p. 526.
Wagon construction, Hay-. H. L. Ferris. No. 1,333,300; Mar. 9; v. 272; p. 265.
Wagon, Dump-. I. F. Avery. No. 1,334,730; Mar. 23; v. 272; p. 640.
Wagon, Dump-. C. W. Carter. No. 1,331,899; Feb. 24; v. 271; p. 599.
Wagon, Dump-. J. M. Hays and J. E. Fillman. No. 1,331,811; Feb. 24; v. 271; p. 583.
Wagon, Dump-. J. H. Jasper. No. 1,328,928; Jan. 27; v. 270; p. 511.
Wagon-dump. M. Larsen. No. 1,333,429; Mar. 9; v. 272; p. 289.
Wagon, Dumping-. A. N. Doud. No. 1,328,137; Jan. 13; v. 270; p. 297.
Wagon, Dumping-. E. E. Schmitt. No. 1,358,675; Nov. 9; v. 280; p. 349.
Wagon end-gate. E. E. Anderson. No. 1,342,705; June 8; v. 275; p. 266.
Wagon for carrying cattle or sheep, Convertible railway-. S. G. Royce. No. 1,357,188; Oct. 26; v. 279; p. 677.
Wagon-frame. L. Coppock. No. 1,342,254; June 1; v. 275; p. 126.
Wagon-hound. J. C. Dickerson. No. 1,356,974; Oct. 26; v. 279; p. 635.
Wagon, Infant's bath-. M. E. and E. C. La Rue. No. 1,327,242; Jan. 6; v. 270; p. 68.
Wagon-loader. G. Haiss. No. 1,345,172; June 29; v. 275; p. 943.
Wagon-loader. H. D. Pratt. No. 1,346,679; July 13; v. 276; p. 328.
Wagon-loading apparatus. W. T. James. No. 1,351,040; Aug. 31; v. 277; p. 800.
Wagon-loading device. C. N. Pratt. No. 1,335,699; Mar. 30; v. 272; p. 883.
Wagon, Manually-propelled. E. Thorn. No. 1,341,725; June 1; v. 275; p. 22.
Wagon, Nursery service-. J. C. Preston. No. 1,358,180; Sept. 21; v. 278; p. 382.
Wagon or trailer tongues, Coupling device or splice for. C. A. Hennicke. No. 1,339,335; May 4; v. 274; p. 126.
Wagon-pole. J. H. Anderson. No. 1,356,252; Oct. 19; v. 279; p. 448.
Wagon-reach. J. S. Mack. No. 1,336,645; Apr. 13; v. 273; p. 237.
Wagon-reach coupling. T. H. Ellington; No. 1,361,699; Dec. 7; v. 281; p. 145.
Wagon-rocker. A. B. Foans. No. 1,345,322; June 29; v. 275; p. 972.
Wagon-seat, Collapsible. G. H. Frye. No. 1,335,678; Mar. 30; v. 272; p. 879.
Wagon-seat spring. A. F. Kempton and C. E. Stady. No. 1,331,201; Feb. 17; v. 271; p. 447.
Wagon, Side-dumping. H. C. Weitzel. No. 1,346,575; July 13; v. 276; p. 308.
Wagon, Slumber-. G. A. Congdon. No. 1,349,602; Aug. 17; v. 277; p. 412.
Wagon, Tower-. G. Schlatter. No. 1,337,487; Apr. 20; v. 273; p. 472.
Wagon, Trailer-. E. F. Norelius. No. 1,329,307; Jan. 27; v. 270; p. 582.
Wagon-train. W. A. Underhill and C. C. Avery. No. 1,336,665; Apr. 13; v. 273; p. 241.
Wagon-unloading device. J. O. Ford. No. 1,329,392; Feb. 3; v. 271; p. 9.
Wagons and automobiles, Running-gear for. A. S. Outcalt. No. 1,352,141; Sept. 7; v. 278; p. 82.
Wagons, Combined clamp and wheel-guard for farm-. L. P. Wells. No. 1,353,940; Sept. 28; v. 278; p. 575.
Wagons, Connection with apparatus for tipping. W. Reid. No. 1,340,683; May 18; v. 274; p. 515.
Wagons, Dumping-bed for. J. W. Huffman. No. 1,347,375; July 20; v. 276; p. 525.
Wagons, Garbage-box for. J. Ormaniec and G. Lembas. No. 1,351,120; Aug. 31; v. 277; p. 814.
Wagons, Running-gear for. A. and J. Chamberlain. No. 1,333,463; Mar. 9; v. 272; p. 296.
Waistband. B. Clark. No. 1,343,035; June 8; v. 275; p. 332.
Waistband. L. Friedman. No. 1,363,107; Dec. 21; v. 281; p. 518.
Waistband, Trousers-. J. Marcus and J. F. Bergen. No. 1,351,257; Aug. 31; v. 277; p. 842.
Waistbands, Machine for making. G. W. Weiss. No. 1,341,092; May 25; v. 274; p. 664.
Walking apparatus for the lame. J. F. Welter. No. 1,354,427; Sept. 28; v. 278; p. 675.
Walkway-grating. C. E. Paulson. No. 1,354,998; Oct. 5; v. 279; p. 109.
Wall and roof construction. C. V. Bossert. No. 1,329,883; Feb. 3; v. 271; p. 101.
Wall, Baffle-. J. E. Muhlfield. No. 1,340,907; May 25; v. 274; p. 628.
Wall, Baffle-. A. Nailson. No. 1,363,005; Dec. 21; v. 281; p. 498.

Digitized by Google

Wall-block, Interlocking. R. J. Dyer. No. 1,350,490; Aug. 24; v. 277; p. 631.
Wall-board and manufacturing same. J. F. Makowski. No. 1,349,778; Aug. 17; v. 277; p. 447.
Wall-board size. B. W. Sidwell. No. 1,336,055; Apr. 6; v. 273; p. 66.
Wall boxes, Machine for making double-. L. E. La Bombard. No. 1,352,288; Sept. 7; v. 278; p. 109.
Wall-bracket. W. A. Cozart. No. 1,345,910; July 6; v. 276; p. 115.
Wall-cleaning machine. C. S. Woods. No. 1,342,488; June 8; v. 275; p. 224.
Wall-closure construction. B. C. Rockwell. No. 1,363,354; Dec. 28; v. 281; p. 607.
Wall construction. R. I. Allsworth. No. 1,350,633; Aug. 24; v. 277; p. 659.
Wall construction. D. G. Bender. No. 1,327,584; Jan. 6; v. 270; p. 132.
Wall construction. J. A. Corn. No. 1,334,842; Mar. 25, v. 272; p. 668.
Wall construction. G. W. Denison. No. 1,343,312; June 15; v. 275; p. 449.
Wall construction. D. J. Flynn. No. 1,329,893; Feb. 3; v. 271; p. 103.
Wall construction. E. H. Kleinfeldt. No. 1,362,327; Dec. 14; v. 281; p. 315.
Wall construction. J. A. Lannert. No. 1,344,808; June 29; v. 275; p. 873.
Wall construction. T. H. McCrea. No. 1,330,203; Feb. 10; v. 271; p. 192.
Wall construction. A. C. Raymond. No. 1,327,292; Jan. 6; v. 270; p. 77.
Wall construction. G. J. Stanton. No. 1,357,125; Oct. 26; v. 279; p. 665.
Wall construction. K. Torosian. No. 1,349,793; Aug. 17; v. 277; p. 449.
Wall construction. W. E. Wilson. No. 1,350,399; Aug. 24; v. 277; p. 613.
Wall construction and making same. P. Orlando. No. 1,333,820; Mar. 16; v. 272; p. 423.
Wall construction and process. R. E. Haire. No. 1,355,667; Oct. 12; v. 279; p. 292.
Wall construction, Interlocking-block. S. Pisciotta. No. 1,350,835; Aug. 24; v. 277; p. 698.
Wall-covering. G. F. Bishopric. No. 1,339,915; May 11; v. 274; p. 313.
Wall-covering, Tile and mosaic. H. A. Hopkins. No. 1,359,893; Nov. 23; v. 280; p. 677.
Wall-flashing. W. L. Hawley. No. 1,337,840; Apr. 20; v. 273; p. 539.
Wall for embankments, Retaining-. C. Paff. No. 1,349,166; Aug. 10; v. 277; p. 258.
Wall molding, Plastered-. G. S. Knapp. No. 1,335,378; Mar. 30; v. 272; p. 823.
Wall or bulkhead, Sea-. R. B. Willard. No. 1,359,475; Nov. 16; v. 280; p. 550.
Wall-rack. E. L. Reed. No. 1,356,014; Oct. 19; v. 279; p. 400.
Wall-rack, Folding. W. W. Lincoln. No. 1,341,654; June 1; v. 275; p. 8.
Wall resisting thrust of earth and water. E. Lacaze. No. 1,360,767; Nov. 30; v. 280; p. 917.
Wall structure. G. P. Youmans. No. 1,336,179; Apr. 6; v. 273; p. 90.
Wall structure, Retaining-. W. E. Pease and N. H. Suloff. No. 1,340,670; May 18; v. 274; p. 513.
Wall-switch, Electric-current-regulating. A. Papini. No. 1,335,014; Mar. 30; v. 272; p. 755.
Wall system. W. H. Drabers. No. 1,351,471; Aug. 31; v. 277; p. 885.
Walls, Device or machine for cleaning decorated. H. F. Gray. No. 1,334,240; Mar. 16; v. 272; p. 502.
Walls, Installing water-front. E. K. Hand. No. 1,347,459; July 20; v. 276; p. 541.
Walls, Mold for hollow. O. Kofstad. No. 1,345,371; July 6; v. 276; p. 9.
Wallet, Collector's. T. E. Brenan. No. 1,359,320; Nov. 16; v. 280; p. 518.
Walnut-picker. N. Nelson. No. 1,330,488; Feb. 10; v. 271; p. 245.
War-billy. R. A. Swan. No. 1,334,188; Mar. 16; v. 272; p. 492.
Wardrobe device. J. C. Phillips. No. 1,334,397; Mar. 23; v. 272; p. 578.
Wardrobe, Dust-proof and moth-proof. J. Rockett. No. 1,335,920; Apr. 6; v. 273; p. 41.
Wardrobe, Portable. I. N. Stewart. No. 1,342,269; June 1; v. 275; p. 129.
Ware to leers, Mechanism for transferring. C. R. Lott. No. 1,338,992; May 4; v. 274; p. 68.
Warning-signal. E. Rubes. No. 1,345,251; June 29; v. 275; p. 958.
Warp-clamp. J. B. Sinderson. No. 1,342,876; June 8; v. 275; p. 301.
Warp in looms, Automatic apparatus for tensioning the. I. Dumail. No. 1,355,319; Oct. 12; v. 279; p. 225.
Warp-replenishing apparatus. O. J. Player. No. 1,357,346; Nov. 2; v. 280; p. 28.
Warp-replenishing mechanism. E. F. Hathaway and C. Lea. No. 1,339,507; May 11; v. 274; p. 235.
Warp stop mechanism for looms. C. D. Brown. No. 1,362,670; Dec. 21; v. 281; p. 484.
Warp stop-motion. E. R. Holmes. No. 1,360,688; Nov. 30; v. 280; p. 892.
Warp stop-motion. J. Regan. (Reissue.) No. 14,829 Mar. 30; v. 272; p. 887.
Warp stop-motion. J. Regan. No. 1,352,529; Sept. 14; v. 278; p. 192.
Warp stop-motion. C. M. Stone. No. 1,352,558; Sept. 14; v. 278; p. 199.
Warp thread and like selecting and separating mechanism. W. Dobson. No. 1,353,947; Sept. 28; v. 278; p. 577.
Warp-stop-motion clamp. J. Regan. No. 1,355,909; Oct. 19; v. 279; p. 379.
Warp-threads, Mechanism for operating upon. M. F. Field and C. D. Lanning. No. 1,344,795; June 29; v. 275; p. 871.
Warp-threads, Spacing-clamp for. C. Lea. No. 1,346,498; July 13; v. 276; p. 293.
Warps, Machine for operating upon. H. D. Colman, B. A. Peterson, and E. D. Parker. No. 1,342,896; June 8; v. 275; p. 305.
Warped panel and forming same. J. Herzog. No. 1,343,320; June 15; v. 275; p. 451.
Warpers, Shaft-bearing construction for. A. E. Rhoades. No. 1,328,451; Jan. 20; v. 270; p. 392.
Warping-machines, Pneumatic lint-cleaner for. J. E. Farrell. No. 1,339,182; May 4; v. 274; p. 99.
Wash-hanger. J. Trach. No. 1,338,266; Apr. 27; v. 273; p. 690.
Washbasin. G. H. K. Mattison. No. 1,361,887; Dec. 14; v. 281; p. 228.
Washbasin-fixture. L. B. Yeiser and A. I. Fischer. No. 1,333,826; Mar. 16; v. 272; p. 424.
Washboard. S. Altman and J. Grossman. No. 1,331,890; Feb. 24; v. 271; p. 598.
Washboard. J. J. Currie. No. 1,356,973; Oct. 26; v. 279; p. 635.
Washboard. A. Horton. No. 1,338,930; May 4; v. 274; p. 52.
Washboiler. G. Kushner. No. 1,363,605; Dec. 28; v. 281; p. 655.
Washboard. G. W. Shoemaker. No. 1,339,292; May 4; v. 274; p. 118.
Washboard. G. W. Shoemaker. No. 1,353,792; Sept. 21; v. 278; p. 502.
Washboard-holder. M. C. Frank. No. 1,331,427; Feb. 17; v. 271; p. 489.
Washboard, Self-soaping. F. A. Brusky. No. 1,334,885; Mar. 23; v. 272; p. 671.
Washboard, Self-soaping. G. H. and J. B. Scully. No. 1,354,075; Sept. 28; v. 278; p. 604.
Washboiler. A. T. Timosci. No. 1,347,354; July 20; v. 276; p. 521.
Washboiler attachment. E. Bak. No. 1,349,545; Aug. 10; v. 277; p. 328.
Washbowl waste-plug. E. M. Harkins. No. 1,333,617; Mar. 16; v. 272; p. 386.
Washer: *See*—

Air-washer.	Fruit and vegetable washer.
Automobile-locking spring-washer.	Glass-washer.
Bolt-washer.	Hose-coupling washer.
Bottle-washer.	Lock-washer.
Can-washer.	Locking-washer.
Clothes-washer.	Machinery-repair washer.
Dish-washer.	Nut-washer.
Egg-washer.	Oil-washer.
Expansible washer.	Self-locking washer.
	Valve-stem washer.

Washer. Z. A. Taylor. No. 1,329,441; Feb. 3; v. 271; p. 18.
Washer. J. G. Wright. No. 1,344,194; June 22; v. 275; p. 687.
Washers and analogous articles, Machine for handling. E. E. Winkley. No. 1,358,910; Nov. 16; v. 280; p. 441.
Washing and drying clothes. A. R. Williford. No. 1,362,658; Dec. 21; v. 281; p. 431.
Washing and drying machine, Window. I. P. Stanfield. No. 1,332,640; Mar. 2; v. 272; p. 89.
Washing apparatus, Dish-. J. T. Belknap. No. 1,345,059; June 29; v. 275; p. 920.
Washing apparatus, Glass-. N. M. Beede. No. 1,328,360; Jan. 20; v. 270; p. 376.
Washing apparatus, Window-. R. I. Arbogast. No. 1,334,209; Mar. 16; v. 272; p. 496.
Washing device. P. Beck. No. 1,329,694; Feb. 3; v. 271; p. 65.
Washing device, Dish-. J. T. Carter. No. 1,328,942; Jan. 27; v. 270; p. 515.
Washing-machine. H. P. Andresen. No. 1,347,667; July 27; v. 276; p. 639.
Washing-machine. J. H. Bair. No. 1,350,353; Aug. 24; v. 277; p. 603.
Washing-machine. P. J. Berford. No. 1,358,507; Nov. 9; v. 280; p. 315.
Washing-machine. A. W. Bowser. No. 1,333,153; Mar. 9; v. 272; p. 237.
Washing-machine. T. N. Brown. No. 1,330,679; Feb. 10; v. 271; p. 280.
Washing-machine. P. Chillemi. No. 1,363,493; Dec. 28; v. 281; p. 633.
Washing-machine. R. J. Clark, Jr. No. 1,347,617; July 27; v. 276; p. 629.

Digitized by Google

Washing-machine. E. L. Couch. No. 1,332,712; Mar. 2; v. 272; p. 108.
Washing-machine. H. S. Craver. No. 1,361,228; Dec. 7; v. 49.
Washing-machine. W. G. Dawson. No. 1,349,370; Aug. 10; v. 277; p. 294.
Washing-machine. C. H. J. Dilg. No. 1,346,595; July 13; v. 276; p. 312.
Washing-machine. A. M. Dow. No. 1,362,240; Dec. 14; v. 281; p. 299.
Washing-machine. J. J. Drury. No. 1,331,828; Feb. 17; v. 271; p. 470.
Washing-machine. D. A. Dwyer. No. 1,342,624; June 8; v. 275; p. 250.
Washing-machine. R. Erich. No. 1,338,501; Apr. 27; v. 273; p. 734.
Washing-machine. M. D. Gibson. No. 1,339,818; May 11; v. 274; p. 294.
Washing-machine. M. D. Gibson. No. 1,354,613; Oct. 5; v. 279; p. 33.
Washing-machine. S. S. Goldman. No. 1,353,829; Sept. 28; v. 278; p. 553.
Washing-machine. S. Gray. No. 1,345,003; June 29; v. 275; p. 909.
Washing-machine. L. Greenberg. No. 1,330,801; Feb. 17; v. 271; p. 372.
Washing-machine. C. B. Greeson. No. 1,334,608; Mar. 23; v. 272; p. 617.
Washing-machine. A. M. Hills. No. 1,333,916; Mar. 16; v. 272; p. 441.
Washing-machine. H. C. Hirschy. No. 1,336,781; Apr. 13; v. 273; p. 264.
Washing-machine. H. C. Hirschy. No. 1,349,338; Aug. 10; v. 277; p. 287.
Washing-machine. E. B. Hoff. No. 1,334,096; Mar. 16; v. 272; p. 475.
Washing-machine. E. B. Hoff. No. 1,334,097; Mar. 16; v. 272; p. 476.
Washing-machine. A. Hofmann. No. 1,340,543; May 18; v. 274; p. 488.
Washing-machine. W. B. Holliday. No. 1,338,442; Apr. 27; v. 273; p. 722.
Washing-machine. A. O. Hubbard. No. 1,355,045; Oct. 5; v. 279; p. 118.
Washing-machine. J. B. Kirby. No. 1,337,453; Apr. 20; v. 273; p. 466.
Washing-machine. J. W. Loudenback. No. 1,331,515; Feb. 24; v. 271; p. 526.
Washing-machine. L. Maples. No. 1,350,823; Aug. 24; v. 277; p. 696.
Washing-machine. B. S. McCutchen. No. 1,358,168; Nov. 9; v. 280; p. 247.
Washing-machine. R. A. McDonald. No. 1,363,892; Dec. 28; v. 281; p. 711.
Washing-machine. J. Negrescou. No. 1,360,009; Nov. 23; v. 280; p. 700.
Washing-machine. N. N. Nunn. No. 1,351,486; Aug. 31; v. 277; p. 888.
Washing-machine. E. F. Poland. No. 1,344,08ᵹ; June 22; v. 275; p. 667.
Washing-machine. W. H. Sargent. No. 1,350,115; Aug. 17; v. 277; p. 511.
Washing-machine. W. H. Sargent. No. 1,350,116; Aug. 17; v. 277; p. 511.
Washing-machine. W. H. Sargent. No. 1,352,225; Sept. 7; v. 278; p. 98.
Washing-machine. W. H. Sargent. No. 1,359,537; Nov. 23; v. 280; p. 606.
Washing-machine. W. H. Sargent. No. 1,363,275; Dec. 28; v. 281; p. 592.
Washing-machine. F. Schneider. No. 1,362,148; Dec. 14; v. 281; p. 280.
Washing-machine. J. W. Seifert. No. 1,353,791; Sept. 21; v. 278; p. 502.
Washing-machine. W. M. Simpson. No. 1,351,008; Aug. 24; v. 277; p. 730.
Washing-machine. M. Tronic. No. 1,360,333; Nov. 30; v. 280; p. 832.
Washing-machine. J. Vierling. No. 1,360,060; Nov. 23; v. 280; p. 710.
Washing-machine. E. F. Witthuhn No. 1,358,601; Nov. 9; v. 280; p. 334.
Washing-machine. H. H. and W. E. Young. No. 1,358,405; Nov. 9; v. 280; p. 295.
Washing-machine. J. J. Zofsak. No. 1,353,802; Sept. 21; v. 278; p. 405.
Washing machine, Barrel-. H. Reininger. No. 1,347,402; July 20: v. 276; p. 530.
Washing machine, Can-. A. B. Herr. No. 1,340,765; May 18; v. 274; p. 531.
Washing machine, Centrifugal clothes-. J. J. Fulton. No. 1,345,761; July 6; v. 276; p. 85.
Washing machine, Clothes-. W. F. Blake. No. 1,345,312; June 29; v. 275; p. 970.
Washing machine, Clothes-. R. Elcock. No. 1,356,433; Oct. 19; v. 279; p. 483.
Washing machine, Clothes-. J. Negrescou. No. 1,356,996: Oct. 26; v. 279; p. 640.
Washing machine, Combination. H. H. Toll and F. C. Duff. No. 1,339,688; May 11; v. 274; p. 251.
Washing-machine cylinder. W. Bartholomew. No. 1,346,291; July 13; v. 276; p. 252.
Washing-machine cylinders, Driving connection to. G. F. Freed. No. 1,337,552; Apr. 20; v. 273; p. 484.
Washing machine, Dish-. W. C. Ashley. No. 1,340,517; May 18; v. 274; p. 483.
Washing machine, Dish-. G. S. Blakeslee. No. 1,360,716; Nov. 30; v 280; p. 907.
Washing machine, Dish-. S. H. Cochran. No. 1,339,810; May 11; v. 274; p. 293.
Washing machine, Dish-. G. W. Conover. No. 1,354,022; Sept. 28; v. 278; p. 592.
Washing machine, Dish-. F. L. Davidson. No. 1,360,192; Nov. 23; v. 280; p. 736.
Washing machine, Dish-. M. Doujak. No. 1,356,911; Oct. 26; v. 279; p. 623.
Washing machine, Dish-. M. Hipes. No. 1,347,698; July 27; v. 276; p. 646.
Washing machine, Dish-. G. H. Myrick. No. 1,335,853; Apr. 6; v. 273; p. 28.
Washing machine, Dish-. E. J. Rohne. No. 1,348,322; Aug. 3; v. 277; p. 38.
Washing machine, Dish-. S. G. Smith. No. 1,345,412; July 6; v. 276; p. 17.
Washing machine, Dish-. W. Snure. No. 1,329,863; Feb. 3; v. 271; p. 97.
Washing-machines, Driving mechanism for. J. P. Doran. No. 1,334,021; Mar. 16; v. 272; p. 462.
Washing-machines, Driving mechanism for. J. Krabec. No. 1,357,999; Nov. 9; v. 280; p. 214.
Washing machine, Floor-. L. Jaruss. No. 1,329,604; Feb. 3; v. 271; p. 49.
Washing-machine heater. H. S. Carson. No. 1,341,109; May 25; v. 274; p. 667.
Washing-machine, Hydraulic. B. Baráth. No. 1,343,107; June 8; v. 275; p. 346.
Washing machines, Casing for dish-. J. Vaudreuil. No. 1,345,519; July 6; v. 276; p. 88.
Washing-machines, Dish-rack for. A. Ratner. No. 1,345,401; July 6; v. 276; p. 15.
Washing-machines, Driving mechanism for. A. B. Cooling. No. 1,340,328; May 18; v. 274; p. 447.
Washing-machines, Driving mechanism for. H. C. Doman. No. 1,340,329; May 18; v. 274; p. 448.
Washing-machines, Driving mechanism for. W. F. Moran. No. 1,354,621; Oct. 5; v. 279; p. 35.
Washing-machines, Driving mechanism for power. H. H. Toll. No. 1,339,587; May 11; v. 274; p. 250.
Washing-machines, Gearing for. G. More. No. 1,336,086; Apr. 6; v. 273; p. 72.
Washing-machines, Means for draining the oscillating cylinders of. J. L. Comfeld. No. 1,338,172; Apr. 27; v. 273; p. 672.
Washing machines, Nozzle-header for bottle-. W. W. Birnstock. No. 1,349,144; Aug. 10; v. 277; p. 249.
Washing-machines, Operating device for. D. D. Rullman. No. 1,335,754; Apr. 6; v. 273; p. 10.
Washing-machines, Reversing-gear for. R. F. Settlage. No. 1,347,975; July 27; v. 276; p. 700.
Washing system. S. A. Blair. No. 1,352,867; Sept. 14; v. 278; p. 261.
Washstand, Adjustable. C. C. McDaniel. No. 1,335,446; Mar. 30; v. 272; p. 836.
Washtray. L. Helgo. No. 1,342,046; June 1; v. 275; p. 85.
Washtub. E. B. Richmond. No. 1,337,272; Apr. 20; v. 273; p. 432.
Washtubs, Clothes-wringer attachment for. J. J. Herb. No. 1,348,797; Aug. 3; v. 277; p. 128.
Washtubs, Supporting-leg for. T. S. Casner. No. 1,337,997; Apr. 27; v. 273; p. 639.
Waste and overflow, Combined. L. Bloch. No. 1,332,793; Mar. 2; v. 272; p. 118.
Waste-heat boiler. J. E. Bell. No. 1,332,284: Mar. 2; v. 272; p. 21.
Waste-making machine. O. Johansen. No. 1,363,420; Dec. 28; v. 281; p. 618.
Waste products and conserving chemical constituents thereof, Disposing of. A. Engle. No. 1,330,435; Feb. 10; v. 271; p. 235.
Waste products and conserving chemical constituents thereof, Means for. A. Engle. No. 1,354,733; Oct. 5; v. 279; p. 57.
Waste-trap. A. S. Newton. No. 1,347,550; July 27; v. 276; p. 616.
Waste-trap. A. S. Newton. No. 1,347,551; July 27; v. 276; p. 616.
Watch. P. Benjamin and S. Burger. No. 1,340,003; May 11; v. 274; p. 329.
Watch. F. R. Coats and J. F. Hartwell. No. 1,333,161; Mar. 9; v. 272; p. 289.
Watch. L. E. F. Wachter. No. 1,333,194; Mar. 9; v. 272; p. 245.
Watch and alarm-clock. Combination. S. A. A. Stenberg. No. 1,361,413; Dec. 7; v. 281; p. 87.
Watch-barrel. H. A. Borresen. No. 1,339,941; May 11; v. 274; p. 318.
Watch-bow. H. P. Bailey. No. 1,348,388; Aug. 3; v. 277; p. 51.
Watch can be used as a pocket one, Means by which a wristlet. A. McKellar. No. 1,359,083; Nov. 16; v. 280; p. 473.
Watch case and clamp. Wrist-. D. Hulburd. No. 1,326,934; Jan. 6; v. 270; p. 10.

Digitized by Google

Alphabetical list of inventions—Continued.

Watch-clasp. B. B. Schmeing. No. 1,356,018; Oct. 19; v. 279; p. 401.
Watch detail. H. E. Hyatt. No. 1,332,295; Mar. 2; v. 272; p. 28.
Watch-display box. W. C. Cook. No. 1,346,591; July 13; v. 276; p. 311.
Watch-escapement. C. E. De Long. No. 1,327,226; Jan. 6, v. 270; p. 65.
Watch glass and bezel gage. E. J. Gardner. No. 1,330,861; Feb. 17; v. 271; p. 383.
Watch-holder. B. F. Christ. No. 1,327,701; Jan. 13; v. 270; p. 215.
Watch-holder. W. B. McMillen. No. 1,362,498; Dec. 14; v. 281; p. 348.
Watch holder, Wrist-. E. Eisendecher. No. 1,338,563; Apr. 27; v. 278; p. 745.
Watch-movements, Shipping-box for. G. E. Hunter. No. 1,331,263; Feb. 17; v. 271; p. 458.
Watch-protector. P. Gomil. No. 1,348,866; Aug. 10; v. 277; p. 194.
Watch-roller remover. S. K. Guzoun-Boghossian. No. 1,331,851; Feb. 24; v. 271; p. 590.
Watch-stand. W. E. Beck. No. 1,340,859; May 18; v. 274; p. 548.
Watch, Stem-winding and stem-setting. W. E. Porter. No. 1,361,613; Dec. 7; v. 281; p. 128.
Watch-support. S. G. Lewis. No. 1,327,051; Jan. 6; v. 270; p. 33.
Watchcase. C. W. and E. T. Harman. No. 1,357,978; Nov. 9; v. 280; p. 210.
Watchmaker's loupe. A. A. Arnold. No. 1,330,777; Feb. 17; v. 271; p. 367.
Watch-stem. G. D. Greig. No. 1,353,040; Sept. 14; v. 278; p. 294.
Watch, Stem-winding and stem-setting. E. H. Horn. No. 1,354,300; Sept. 28; v. 278; p. 649.
Watches, Stem winding and setting mechanism for. C. I. Furbish. No. 1,354,179; Sept. 28; v. 278; p. 624.
Watches, Triple roller for. C. Verner. No. 1,359,005; Nov. 16; v. 280; p. 459.
Water-bag. D. A. Climes. No. 1,342,252; June 1; v. 275; p. 126.
Water-bottles, Drinking-cup holder for. C. Rosenthal. No. 1,349,473; Aug. 10; v. 277; p. 314.
Water-bowl. H. L. Ferris. No. 1,330,438; Feb. 10; v. 271; p. 286.
Water-bowl. H. L. Ferris. No. 1,330,439; Feb .10; v. 271; p. 286.
Water-bowl. H. L. Ferris. No. 1,330,440; Feb. 10; v. 271; p. 286.
Water-bowl and exhibiting-stand therefor. H. L. Ferris. No. 1,330,437; Feb. 10; v. 271; p. 285.
Water-circulating tube. J. L. Nicholson. No. 1,356,307; Oct. 19; v. 279; p. 459.
Water circulation, Temperature-indicator for engine-. G. P. Pitkin. No. 1,343,088; June 8; v. 275; p. 343.
Water-circulator, Vacuum. A. C. Taylor. No. 1,349,638; Aug. 17; v. 277; p. 419.
Water-closet. A. C. Schuman. No. 1,333,638; Mar. 16; v. 272; p. 390.
Water-closet. C. E. Shadall. No. 1,340,567; May 18; v. 274; p. 493.
Water-closet bowl. H. D. Farris. No. 1,342,016; June 1; v. 275; p. 79.
Water-closet bowl. H. D. Farris. No. 1,349,193; Aug. 10; v. 277; p. 258.
Water-closet bowl. B. O. Tilden. No. 1,362,061; Dec. 14; v. 281; p. 263.
Water-closet bowl. B. O. Tilden. No. 1,362,062; Dec. 14; v. 281; p. 263.
Water-closet construction. F. W. Auer. No. 1,333,868; Mar. 9; v. 272; p. 278.
Water-closet floor connection. G. Douglas. No. 1,358,714; Nov. 16; v. 280; p. 401.
Water-closet installation. A. F. Curtin. No. 1,332,660; Mar. 2; v. 272; p. 93.
Walter-closet, Marine. H. H. Sell and J. S. Berger. No. 1,329,932; Feb. 3; v. 271; p. 110.
Water-closet, Sanitary. W. C. Rees. No. 1,346,255; July 13; v. 276; p. 244.
Water-closet seat. M. A. Ferguson. No. 1,327,275; Jan. 6; v. 270; p. 74.
Water-closet seat. S. T. Frothingham. No. 1,352,058; Sept. 7; v. 278; p. 67.
Water-closet tanks, Ball-cock for. E. J. Terry. No. 1,343,421; June 15; v. 275; p. 470.
Water-closet tanks, Inlet-valve for. W. U. Griffiths. No. 1,347,507; July 27; v. 276; p. 607.
Water-closet ventilator. E. F. Klemme. No. 1,351,854; Sept. 7; v. 278; p. 28.
Water-closets, Apparatus for flushing. S. S. Williamson. No. 1,358,600; Nov. 9; v. 280; p. 334.
Water-closets, Automatic ventilating device for. A. J. Gritton. No. 1,362,290; Dec. 14; v. 281; p. 308.
Water-closets, Flush-valve for. G. F. Smith. No. 1,352,551; Sept. 14; v. 278; p. 197.
Water-closets, Hand or armpit support for. W. J. Hegarty. No. 1,353,749; Sept. 21; v. 278; p. 494.
Water-collecting system. D. P. Howell. No. 1,342,679; June 8; v. 275; p. 261.
Water container or receptacle. L. A. Ottem. No. 1,356,085; Oct. 19; v. 279; p. 414.
Water-cooler. A. M. Gow. No. 1,359,695; Nov. 23; v. 280; p. 638.
Water-cooling system. J. O. Heinze. No. 1,356,066; Oct. 19; v. 279; p. 411.
Water-currents, Silt-accumulating means for. H. F. Kellner. No. 1,355,052; Oct. 5; v. 279; p. 120.
Water cut-off, Reversible rain-. T. H. Brison. No. 1,349,808; Aug. 17; v. 277; p. 452.
Water-distributer. A. H. Barthez. No. 1,342,734; June 8; v. 275; p. 272.
Water-distributing means. J. A. Brooks. No. 1,357,840; Nov. 2; v. 280; p. 122.
Water-distillation system. A. E. Flowers. No. 1,346,537; July 13; v. 276; p. 301.
Water-distributing system. T. H. Hollis. No. 1,358,741; Nov. 16; v. 280; p. 407.
Water-distributing systems of railway passenger-cars, Portable testing apparatus for. H. A. Montgomery. No. 1,353,810; Sept. 21; v. 278; p. 506.
Water-forcing apparatus, Hydraulic. W. S. Elliott, Jr. No. 1,328,139; Jan. 13; v. 270; p. 297.
Water-gage. S. A. Brown. No. 1,359,958; Nov. 23; v. 280; p. 690.
Water-gage. E. Macneir. No. 1,335,904; Apr. 6; v. 273; p. 38.
Water-gage. D. M. McCook. No. 1,347,701; July 27; v. 276; p. 646.
Water-gage-glass device. J. J. and T. F. Fleming. No. 1,336,570; Mar. 30; v. 272; p. 859.
Water-gage glasses, Automatic shut-off for. L. I. Breakey. No. 1,361,303; Dec. 7; v. 281; p. 64.
Water-gages, Automatic safety-valve for. C. F. Mattingly. No. 1,362,257; Dec. 14; v. 281; p. 302.
Water-gate. V. Ambrus. No. 1,354,869; Oct. 5; v. 279; p. 84.
Water-gate, Automatic. S. M. Sampson. No. 1,329,679; Feb. 3; v. 271; p. 62.
Water glass and column reflector and protector. J. A. Moyer. No. 1,345,799; July 6; v. 276; p. 92.
Water-glass light. T. Kennedy and C. E. Kiser. No. 1,334,703; Mar. 23; v. 272; p. 685.
Water-heater. A. Beler. No. 1,356,121; Oct. 19; v. 279; p. 422.
Water-heater. A. Beler. No. 1,356,122; Oct. 19; v. 279; p. 422.
Water-heater. L. S. Chadwick and A. R. Whittaker. No. 1,358,286; Nov. 9; v. 280; p. 270.
Water-heater. M. H. Cowan. No. 1,338,447; Apr. 27; v. 278; p. 723.
Water-heater. E. T. Curran. No. 1,335,560; Mar. 30; v. 272; p. 857.
Water-heater. E. Drevet. No. 1,341,048; May 25; v. 274; p. 656.
Water-heater. L. F. Faust. No. 1,352,802; Sept. 14; v. 278; p. 248.
Water-heater. N. G. Goreau. No. 1,346,952; July 20; v. 276; p. 442.
Water-heater. N. Hubbard. No. 1,349,571; Aug. 17; v. 277; p. 406.
Water-heater. C. E. Jeannotte. No. 1,337,473; Apr. 20; v. 273; p. 469.
Water-heater. N. O. Lynn. No. 1,328,161; Jan. 13; v. 270; p. 301.
Water-heater. F. Poole. No. 1,326,964; Jan. 6; v. 270; p. 16.
Water-heater. D. L. Rathbone. No. 1,346,251; July 13; v. 276; p. 244.
Water-heater. V. H. Stott and L. Schofield. No. 1,356,415; Oct. 19; v. 279; p. 479.
Water-heater. J. K. Toles. No. 1,333,229; Mar. 9; v. 272; p. 251.
Water-heater. C. P. Wadley. No. 1,338,055; Apr. 27; v. 273; p. 650.
Water-heater. E. T. Wells. No. 1,338,760; May 4; v. 274; p. 21.
Water-heater, Automatic. G. S. Walker. No. 1,330,362; Feb. 10; v. 271; p. 221.
Water-heater, Electric. L. H. Beaudét. No. 1,355,644; Oct. 12; v. 279; p. 287.
Water-heater, Electric. W. F. Cutler. No. 1,337,120; Apr. 13; v. 273; p. 329.
Water-heater, Electric. F. Kuhn and J. A. Hand. No. 1,363,472; Dec. 28; v. 281; p. 629.
Water-heater, Electric. A. Papini. No. 1,335,020; Mar. 30; v. 272; p. 756.
Water-heater, Electric. A. Papini. No. 1,360,437; Nov. 30; v. 280; p. 852.
Water-heater, Electric. A. E. Plante. No. 1,327,774; Jan. 13; v. 270; p. 228.
Water-heater, Electrical. R. J. Patterson. No. 1,329,204; Jan. 27; v. 270; p. 564.
Water-heater, Electrolytic. R. C. Ledig and A. Papini. No. 1,358,377; Nov. 9; v. 280; p. 289.
Water-heater, Gas. D. W. Allman. No. 1,336,937; Apr. 13; v. 273; p. 294.
Water-heater, Gravity. A. H. Dummer. No. 1,333,841; Mar. 16; v. 272; p. 427.
Water-heater, Instantaneous. J. A. Mayers. No. 1,353,174; Sept. 21; v. 278; p. 381.
Water-heater, Instantaneous electric. L. J. Schneider. No. 1,362,356; Dec. 14; v. 281; p. 321.

Digitized by Google

Water-heater, Internal-combustion-engine. F. Walther. No. 1,327,507; Jan. 6; v. 270; p. 117.
Water-heater or steam-generator, Gas-fired. W. M. Taylor. No. 1,328,856; Jan. 27; v. 270; p. 498.
Water-heater, Portable instantaneous. H. S. Murray. No. 1,357,891; Nov. 2; v. 280; p. 132.
Water-heaters, Gas-burner for. P. H. Hamilton. No. 1,354,295; Sept. 28; v. 278; p. 643.
Water-heating attachment. W. M. Hamilton. No. 1,333,110; Mar. 9; v. 272; p. 229.
Water-heating device. E. A. Screiber. No. 1,343,937; June 22; v. 275; p. 638.
Water-jacket. A. B. Cox. No. 1,359,334; Nov. 16; v. 280; p. 522.
Water-jacket, Inverted-head-engine. A. E. Osborn. No. 1,354,335; Sept. 28; v. 278; p. 656.
Water-level. J. Kaspar and R. F. Beran. No. 1,349,613; Aug. 17; v. 277; p. 414.
Water-level indicator. T. S. Derr. No. 1,357,850; Nov. 2; v. 280; p. 124.
Water-level recorder and volume-meter. J. C. Stevens. No. 1,356,322; Oct. 19; v. 279; p. 462.
Water-lifting device, Pneumatic. E. E. Thomas. No. 1,363,443; Dec. 28; v. 281; p. 623.
Water mains, Delivery-compensating and recoil-deadening apparatus for. H. J. Bouvier. No. 1,357,838; Nov. 2; v. 280; p. 121.
Water-mains, Recoil-deadener for. H. J. Bouvier. No. 1,357,837; Nov. 2; v. 280; p. 121.
Water-mill. S. N. Dalmant. No. 1,342,100; June 1; v. 275; p. 96.
Water-mixer. S. K. Ouzoun-Boghossian. No. 1,336,917; Apr. 13; v. 273; p. 290.
Water-motor. W. H. Ammons. No. 1,339,012; May 4; v. 274; p. 67.
Water-motor. K. M. Anderson. No. 1,342,613; June 8; v. 275; p. 248.
Water-motor. A. Bobrovsky. No. 1,357,609; Nov. 2; v. 280; p. 77.
Water-motor. P. Egedi. No. 1,352,588; Sept. 14; v. 278; p. 204.
Water-motor. J. R. Hamilton. No. 1,327,953; Jan. 13; v. 270; p. 261.
Water-motor. J. N. Hipkins and F. C. Coss. No. 1,348,800; Aug. 3; v. 277; p. 128.
Water-motor. I. D. Hudgins. No. 1,329,244; Jan. 27; v. 270; p. 571.
Water-motor. W. J. Kinback. No. 1,350,025; Aug. 17; v. 277; p. 494.
Wave-motor. J. W. Southwick. No. 1,347,829; July 27; v. 276; p. 672.
Water-motor. C. L. Steele. No. 1,361,111; Dec. 7; v. 281; p. 26.
Water-motor. H. H. Wister. No. 1,356,421; Oct. 19; v. 279; p. 481.
Water-power apparatus. W. H. Wilber. 1,338,890; May 4; v. 274; p. 44.
Water-power device, Submersible. J. C. Streibich and G. F. Gruver. No. 1,350,187; Aug. 17; v. 277; p. 525.
Water, Process and apparatus for softening. T. R. Duggan. No. 1,354,604; Oct. 5; v. 279; p. 32.
Water purification, Apparatus for. J. W. Elims. No. 1,362,611; Dec. 21; v. 281; p. 422.
Water service and system, Electrically-heated. G. Alexander and J. J. Rafferty. No. 1,357,019; Oct. 26; v. 279; p. 645.
Water-softener and preparing same. J. E. Caps. No. 1,356,756; Oct. 26; v. 279; p. 593.
Water, Softening. E. Edser and S. Tucker. No. 1,333,393; Mar. 9; v. 272; p. 282.
Water-softening apparatus. J. E. Caps. No. 1,362,673; Dec. 21; v. 281; p. 434.
Water-softening compound and producing same. G. I. Borrowman. No. 1,348,977; Aug. 10; v. 277; p. 216.
Water stage and discharge recorder. E. Schaub. No. 1,336,090; Apr. 6; v. 273; p. 73.
Water-station. F. W. Davis. No. 1,345,482; July 6; v. 276; p. 30.
Water-stop. A. H. Hauser. No. 1,348,562; Aug. 3; v. 277; p. 84.
Water-supply apparatus, Carbonated-. L. Caul. No. 1,335,874; Apr. 6; v. 273; p. 32.
Water-system cut-off. J. W. Butler. No. 1,356,962; Oct. 26; v. 279; p. 633.
Water-tight container for use of bathers. D. R. Kolodny. No. 1,331,508; Feb. 24; v. 271; p. 525.
Water through hose, Means for controlling the flow of. C. J. Maier. No. 1,337,247; Apr. 20; v. 273; p. 427.
Water-tube and a pressure-basin mounting the water-tube, Connection between a. T. Heyerdahl. No. 1,342,286; June 1; v. 275; p. 132.
Water-tube boiler. H. O. Baker. No. 1,336,714; Apr. 13; v. 273; p. 251.
Water-tube boiler. H. Horiuchi. No. 1,343,824; June 15; v. 275; p. 551.
Water-waste preventer. L. Davies. No. 1,339,690; May 11; v. 274; p. 271.
Water-wheel, Impact and reaction. J. Kincaid. No. 1,361,467; Dec. 7; v. 281; p. 99.
Water-wheel, Sectional overshot. W. A. Hutchens. No. 1,331,110; Feb. 17; v. 271; p. 431.
Water-wheel, Turbine. E. A. Jacobson. No. 1,345,493; July 6; v. 276; p. 33.
Waterer, Poultry-. C. P. Bettenga. No. 1,354,943; Oct. 5; v. 279; p. 98.
Waterer, Stock-. F. A. Clemons. No. 1,353,146; Sept. 21; v. 278; p. 375.
Waterer, Winter hog-. A. K. Pruden. No. 1,341,070; May 25; v. 274; p. 660.
Waterer, Winter hog-. A. K. Pruden. No. 1,358,245; Nov. 9; v. 280; p. 262.
Watering apparatus, Stock-. H. H. Drew. No. 1,328,036; Jan. 13; v. 270; p. 277.
Watering bowl, Stock-. F. H. Bogda. No. 1,337,636; Apr. 20; v. 273; p. 500.
Watering device. C. F. Kollin. No. 1,350,411; Aug. 24; v. 277; p. 615.
Watering device, Cattle-. H. C. Rassmann. No. 1,344,189; June 22; v. 275; p. 686.
Watering device, Non-freezable. C. C. Fifield. No. 1,348,489; Aug. 3; v. 277; p. 70.
Watering device, Stock-. H. C. Rassmann. No. 1,327,784; Jan. 13; v. 270; p. 221.
Watering tank, Stock-. F. G. Johnson. No. 1,337,075; Apr. 13; v. 273; p. 321.
Watering trough, Automatic hog-. R. C. Force. No. 1,363,242; Dec. 28; v. 281; p. 585.
Waterproof composition and making same. P. W. Kiernan. No. 1,327,239; Jan. 6; v. 270; p. 68.
Waterproof fabric and producing same. A. B. Harrison. No. 1,347,095; July 20; v. 276; p. 469.
Waterproof fibrous material and making same. J. P. Elliott. No. 1,342,796; Sept. 14; v. 278; p. 247.
Waterproof material. G. C. Glynn. No. 1,330,443; Feb. 10; v. 271; p. 236.
Waterproofed fabric. W. B. Pratt. No. 1,349,910; Aug. 17; v. 277; p. 471.
Waterproofed material and making same. R. B. Butter. No. 1,351,087; Aug. 31; v. 277; p. 808.
Waterproofing composition. D. J. Davies. No. 1,329,162; Jan. 27; v. 270; p. 556.
Waterproofing composition. F. McPhillips. No. 1,358,226; Nov. 9; v. 280; p. 258.
Waterproofing composition and making and using same. S. P. Sollaway. No. 1,339,724; May 11; v. 274; p. 277.
Waterproofing composition, Leather-. A. L. Ullrich. No. 1,334,578; Mar. 23; v. 272; p. 611.
Waterproofing leather, canvas, and other cloth, Composition for. C. J. Nethercott. No. 1,359,826; Nov. 23; v. 280; p. 664.
Waterproofing to materials and product therefrom, Applying. R. P. Perry. No. 1,331,865; Feb. 17; v. 271; p. 477.
Wave-changer and wave-meter. G. Hill. No. 1,338,984; May 4; v. 274; p. 61.
Wave-energy motor. W. A. Crawford-Frost. No. 1,346,399; July 13; v. 276; p. 272.
Wave form, Producing currents of desired. H. J. Van der Bijl. No. 1,337,787; Apr. 20; v. 273; p. 520.
Wave-motor. J. H. Martin. No. 1,332,509; Mar. 2; v. 272; p. 64.
Wave or tide motor. F. G. Peck. No. 1,338,326; Apr. 27; v. 273; p. 701.
Waver, Marcel. L. M. Taylor. No. 1,334,329; Mar. 23; v. 272; p. 565.
Wax-applying device. A. Bates. No. 1,327,014; Jan. 6; v. 270; p. 26.
Wax cakes, Method of and apparatus for forming. H. M. Nichols. No. 1,361,346; Dec. 7; v. 281; p. 73.
Wax, Electric heater for sealing-. A. J. Ording. No. 1,353,972; Sept. 28; v. 278; p. 582.
Wax, Extracting. H. M. Nichols. No. 1,356,550; Oct. 26; v. 279; p. 552.
Wax from petroleum-distillates, Apparatus for expressing. W. C. and F. E. Wells. No. 1,344,745; June 29; v. 275; p. 861.
Wax polish, Non-cumulative. W. H. Damon. (Reissue.) No. 14,930; Aug. 17; v. 277; p. 545.
Wax-pot. C. A. Alexander and E. W. Young. No. 1,360,255; Nov. 30; v. 280; p. 817.
Waxlike material from paper-stock, Separating. W. H. Spaith. No. 1,352,553; Sept. 14; v. 278; p. 197.
Waybill, accounting, and receipt appliance, Combined. F. P. Small. No. 1,330,726; Feb. 10; v. 271; p. 269.
Weaner, Calf and colt. J. Reichert. No. 1,346,557; July 13; v. 276; p. 305.
Weapon, Combination-. J. Diuzniewski. No. 1,330,062; Feb. 10; v. 271; p. 165.
Wear-compensating device. J. A. Lupo. No. 1,329,982; Feb. 3; v. 271; p. 119.
Wear-resisting structure. G. P. Bartholomew. No. 1,330,973; Feb. 17; v. 271; p. 406.
Wear-resisting structure, Rotary. W. H. Sayre. No. 1,330,988; Feb. 17; v. 271; p. 408.
Wear take-up for slides. P. W. Murphy. No. 1,344,592; June 22; v. 275; p. 767.
Wearing-apparel. H. W. Ewing. No. 1,346,448; July 13; v. 276; p. 283.
Wearing-apparel, Hook-link fastener for eyeleted. H. E. Ross. No. 1,353,614; Sept. 21; v. 278; p. 493.
Weather-guard. H. H. Schroyer. No. 1,365,395; Mar. 30; v. 272; p. 826.

Digitized by Google

Weather-screen, Visual. S. A. de Normanville and L. H. Kent. No. 1,340,025; May 11; v. 274; p. 83.
Weather-strip. E. W. Anderegg. No. 1,357,378; Nov. 2; v. 280; p. 33.
Weather-strip. O. S. Branham. No. 1,343,304; June 15; v. 275; p. 447.
Weather-strip. T. M. Campbell. No. 1,345,832; July 6; v. 276; p. 99.
Weather-strip. E. Clayton. No. 1,341,682; June 1; v. 275; p. 4.
Weather-strip. E. J. Craig. No. 1,348,904; June 22; v. 275; p. 631.
Weather-strip. A. V. Culver. No. 1,354,729; Oct. 5; v. 279; p. 56.
Weather-strip. H. S. Davis. No. 1,352,879; Sept. 14; v. 278; p. 263.
Weather-strip. F. A. Dillingham. No. 1,337,364; Apr. 20; v. 273; p. 455.
Weather-strip. H. C. Egerton. No. 1,352,782; Sept. 14; v. 278; p. 234.
Weather-strip. C. J. Jones. No. 1,352,275; Sept. 7; v. 278; p. 107.
Weather-strip. O. Kubatzky. No. 1,343,324; June 15; v. 275; p. 451.
Weather-strip. J. B. A. La Jeunesse. No. 1,342,050; June 1; v. 275; p. 86.
Weather-strip. L. M. Rees. No. 1,352,695; Sept. 14; v. 278; p. 226.
Weather-strip. G. C. Reeves. No. 1,350,883; Aug. 24; v. 277; p. 706.
Weather-strip. W. Schnekenburger. No. 1,352,545; Sept. 14; v. 278; p. 196.
Weather-strip. C. D. Shafer. No. 1,345,409; July 6; v. 276; p. 16.
Weather-strip. H. L. Smith. No. 1,356,229; Oct. 19; v. 279; p. 444.
Weather-strip. C. H. Stark. No. 1,338,403; Apr. 27; v. 273; p. 715.
Weather-strip. C. G. Weber. No. 1,355,582; Oct. 12; v. 279; p. 276.
Weather-strip. F. Wilson. No. 1,361,657; Dec. 7; v. 281; p. 186.
Weather-strip, Door-bottom. W. G. Maxcy and W. A. Rideout. No. 1,339,775; May 11; v. 274; p. 286.
Weather-strip for expansion-joints. A. M. Lane. No. 1,357,713; Nov. 2; v. 280; p. 97.
Weather-strips, Grooving-machine for. F. J. Forster. No. 1,361,377; Dec. 7; v. 281; p. 79.
Weather-vane. T. A. McCarty. No. 1,359,406; Nov. 16; v. 280; p. 536.
Weatherproofing, Window-. R. Norris. No. 1,341,434; May 25; v. 274; p. 780.
Weaving or braiding shuttle support. J. Fentress. No. 1,363,858; Dec. 28; v. 281; p. 705.
Web, Manifolding-. E. W. Cooper. No. 1,362,231; Dec. 14; v. 281; p. 297.
Web-regulating mechanism. C. P. Bossert. No. 1,360,717; Nov. 30; v. 280; p. 908.
Web stretching and guiding device. J. T. Bolton. No. 1,343,385; June 15; v. 275; p. 464.
Webs, Means for producing manifolding-. E. W. Cooper. No. 1,330,786; Feb. 17; v. 271; p. 369.
Weed and clod cutter. H. A. M. Bromfield. No. 1,353,626; Sept. 21; v. 278; p. 470.
Weed-cutter. S. Johnson. No. 1,341,804; June 1; v. 275; p. 38.
Weed-cutter. W. F. Kasper. No. 1,337,655; Apr. 20; v. 273; p. 504.
Weed-cutter. I. J. Wilson. No. 1,333,145; Mar. 9; v. 272; p. 236.
Weed-destroyer. T. H. Hillman. No. 1,329,404; Feb. 3; v. 271; p. 11.
Weed-destroyer. G. Kramer. No. 1,354,043; Sept. 28; v. 278; p. 597.
Weed-destroyer and ground-sterilizer. J. W. Nicholson and C. Fowler. No. 1,337,562; Apr. 20; v. 273; p. 456.
Weed-puller. D. W. Hanks. No. 1,363,112; Dec. 21; v. 281; p. 519.
Weeder. L. L. Harding. No. 1,355,473; Oct. 12; v. 279; p. 255.
Weeder. J. M. St. John. No. 1,328,063; Jan. 13; v. 270; p. 283.
Weeder, Adjustable. J. Gilson, Sr. No. 1,336,628; Apr. 13; v. 273; p. 282.
Weeder and cultivator. H. K. Wolfe. No. 1,338,204; Apr. 27; v. 273; p. 678.
Weeder and transplanter, Combination. J. Hill. No. 1,356,146; Oct. 19; v. 279; p. 427.
Weeder. Four-wheel-truck. H. C. Oldenrider. No. 1,348,311; Aug. 3; v. 277; p. 36.
Weeder, Garden-. C. E. Baker. No. 1,334,536; Mar. 23; v. 272; p. 614.
Weeder or rake attachment. A. Kuker. No. 1,333,354; Mar. 16; v. 272; p. 480.
Weeder, Rotary-rod. N. G. and G. Isaak. No. 1,329,839; Feb. 3; v. 271; p. 93.
Weeder, Rotary-rod. G. H. Wolfe. No. 1,338,203; Apr. 27; v. 273; p. 678.
Weeder, Rotary-rod. L. C. Van Patten. No. 1,338,200; Apr. 27; v. 278; p. 677.
Weeder, Rotary-rod. L. C. Van Patten. No. 1,338,201; Apr. 27; v. 273; p. 677.
Weeding device. W. Zetzman. No. 1,343,805; June 15; v. 275; p. 547.
Weeding implement. T. S. Moffett. No. 1,348,438; Aug. 3; v. 277; p. 61.
Weeding-machine. A. E. Piper. No. 1,337,721; Apr. 20; v. 273; p. 517.
Weft-carrier-releasing device. C. S. Wright. No. 1,337,698; Apr. 20; v. 273; p. 509.
Weft-detecting mechanism. A. S. Hutchins. No. 1,349,341; Aug. 10; v. 277; p. 288.
Weft-detecting mechanism. B. F. McGuiness. No. 1,360,553; Nov. 30; v. 280; p. 875.
Weft-detecting mechanism. E. H. Ryon. No. 1,345,508; July 6; v. 276; p. 36.
Weft-detecting mechanism. E. H. Ryon. No. 1,352,536; Sept. 14; v. 278; p. 198.
Weft-replenishing loom. W. Towler. No. 1,363,544; Dec. 28; v. 281; p. 644.
Weft-replenishing mechanism. J. C. A. Wenning. No. 1,355,022; Oct. 5; v. 279; p. 114.
Weigher, Automatic liquid-. W. E. Turner. No. 1,329,151; Jan. 27; v. 270; p. 554.
Weigher, Grain-. C. M. Leffer. No. 1,358,008; Nov. 9; v. 280; p. 215.
Weighing apparatus, Automatic. W. A. Devey. No. 1,345,838; July 6; v. 276; p. 100.
Weighing device, Automatic. R. Leumann. No. 1,336,705; Apr. 13; v. 273; p. 249.
Weighing-machine. R. R. Bennett. No. 1,353,130; Sept. 21; v. 278; p. 373.
Weighing-machine. F. A. Emery and A. A. Adams. No. 1,344,295; June 22; v. 275; p. 708.
Weighing-machine. T. M. Foote. No. 1,344,339; June 22; v. 275; p. 716.
Weighing-machine. H. Harvey. No. 1,327,553; Jan. 6; v. 270; p. 126.
Weighing-machine. J. H. Reinhardt. No. 1,343,476; June 15; v. 275; p. 481.
Weighing-machine. T. J. Sturtevant. No. 1,360,467; Nov. 30; v. 280; p. 858.
Weighing-machine, Automatic. C. Kader. No. 1,350,611; Aug. 24; v. 277; p. 655.
Weighing-machine, Automatic. W. H. Vickers and C. E. Hancock. No. 1,338,568; Apr. 27; v. 273; p. 740.
Weighing-machines, Automatic compensator for. H. Richardson. No. 1,346,684; July 13; v. 276; p. 329.
Weighing-machines, Closing device for the material receptacles of automatic. J. Lambertz. No. 1,337,842; Apr. 20; v. 273; p. 540.
Weighing-machines, Electrically-operated releasing device for. C. H. Allen and J. L. Morris. No. 1,339,689; May 11; v. 274; p. 241.
Weighing mechanism. M. B. Mills. No. 1,334,161; Mar. 16; v. 272; p. 488.
Weighing mechanism. J. Pappa and G. F. Hochriem. No. 1,333,332; Mar. 9; v. 272; p. 271.
Weighing-scale. G. Guldbrandsen. No. 1,362,618; Dec. 21; v. 281; p. 423.
Weight, Adjustable. A. F. Poirier. No. 1,357,471; Nov. 2; v. 280; p. 51.
Weight-indicator for scales. H. C. Schaper. No. 1,357,731; Nov. 2; v. 280; p. 101.
Weight-motor. J. M. Johnson. No. 1,359,994; Nov. 23; v. 280; p. 697.
Weight-motor. C. H. Louden. No. 1,329,050; Jan. 27; v. 270; p. 535.
Weight-motor. E. A. McLeod and M. F. Quirk. No. 1,328,384; Jan. 20; v. 270; p. 380.
Weight, Sash-. A. B. Cressler, L. B. Nees, and H. B. Baumbach. No. 1,344,176; June 22; v. 275; p. 684.
Weight, Sash-. C. M. Stewart. No. 1,345,274; June 29; v. 275; p. 962.
Weir. W. W. Prickett. No. 1,359,915; Nov. 23; v. 280; p. 682.
Weir, Reversible. O. Sommer. No. 1,353,285; Sept. 21; v. 278; p. 401.
Welded joint and welding. L. P. Patterson. No. 1,337,028; Apr. 13; v. 273; p. 310.
Welded joint, Producing a rib on an electrically-. T. E., Jr., and J. B. Murray. No. 1,339,966; May 11; v. 274; p. 322.
Welded joint, Reinforced. D. H. Wilson and R. G. Hatton. No. 1,340,644; May 18; v. 274; p. 508.
Welded tubes, Closing die or bell for. D. W. Chisholm. No. 1,353,721; Sept. 21; v. 278; p. 489.
Welder apparatus, Arc-. J. F. Lincoln. No. 1,329,532; Feb. 3; v. 271; p. 86.
Welding. V. G. Apple. No. 1,332,155; Feb. 24; v. 271; p. 646.
Welding. L. B. Brewster and F. Weisehan. No. 1,327,267; Jan. 6; v. 270; p. 73.
Welding. S. C. Cary. No. 1,326,912; Jan. 6; v. 270; p. 5.
Welding. D. P. Kellogg. No. 1,327,099; Jan. 6; v. 270; p. 42.
Welding. D. P. Kellogg, A. P. Neff, W. A. Rogers, and F. Cowan. No. 1,327,098; Jan. 6; v. 270; p. 41.
Welding. J. G. Vincent. No. 1,361,936; Dec. 14; v. 281; p. 238.
Welding and product thereof, Electric. T. E., Jr., and J. B. Murray. No. 1,332,563; Mar. 2; v. 272; p. 75.

Digitized by Google

Welding and reactor, Electric. S. B Bergman. No. 1,363,711; Sept. 21; v. 278; p. 487.
Welding apparatus. W. J. Buckley. No. 1,335,873; Apr. 6; v. 273; p. 81.
Welding apparatus. W. A. Pratt. No. 1,343,277; June 15; v. 275; p. 443.
Welding apparatus. H. M. Smith. No. 1,350,572; Aug. 24; v. 277; p. 648.
Welding apparatus. M. P. Wetmore. No. 1,361,652; Dec. 7; v. 281; p. 135.
Welding apparatus, Autogenous-. A. V. Johanson. No. 1,357,324; Nov. 2; v. 280; p. 24.
Welding apparatus, Autogenous-. A. Saulze. No. 1,335,922; Apr. 6; v. 273; p. 41.
Welding apparatus, Electric. F. V. D. Longacre. No. 1,344,415; June 22; v. 275; p. 731.
Welding, Apparatus for and method of. E. J. von Henke. No. 1,351,815; Sept. 7; v. 278; p. 31
Welding, Apparatus for electric. F. L. Sessions. (Reissue.) No. 14,927; July 27; v. 276; p. 735.
Welding apparatus, Spot-. F. Thornton, Jr. No. 1,327,792; Jan. 13; v. 270; p. 232.
Welding appliance, Electric. R. P. La Porte. No. 1,337,662; Apr. 20; v. 273; p. 505.
Welding, Chemical. J. H. Gravell. No. 1,355,224; Oct. 12; v. 279; p. 207.
Welding condenser parts. R. D. Mershon and P. A. Ross. No. 1,350,557; Aug. 24; v. 277; p. 644.
Welding device, Electric. W. P. Bovard. No. 1,341,293; May 25; v. 274; p. 703.
Welding, Electric. J. L. Adams, Jr. No. 1,332,184; Feb. 24; v. 271; p. 652.
Welding, Electric. J. W. Fay. No. 1,332,186; Feb. 24; v. 271; p. 652.
Welding, Electrode for arc-. J. W. Fay. No. 1,354,476; Oct. 5; v. 279; p. 6.
Welding, Electric. L. Gruber. No. 1,332,394; Mar. 2; v. 272; p. 43.
Welding, Electric. T. E. Murray, Jr. No. 1,333,273; Mar. 9; v. 272; p. 260.
Welding, Electric. T. E., Jr., and J. B. Murray. No. 1,329,135; Jan. 27; v. 270; p. 551.
Welding, Electric. T. E., Jr., and J. B. Murray. No. 1,350,831; Aug. 24; v. 277; p. 697.
Welding, Electrical. T. E., Jr., and J. B. Murray. No. 1,329,136; Jan. 27; v. 270; p. 551.
Welding, Electrical. T. E., Jr., and J. B. Murray. No. 1,339,968; May 11; v. 274; p. 323.
Welding, Electrical. T. E., Jr., and J. B. Murray. No. 1,339,969; May 11; v. 274; p. 323.
Welding, Electrical. T. E., Jr., and J. B. Murray. No. 1,339,971; May 11; v. 274; p. 323.
Welding, Electrical. T. E., Jr., and J. B. Murray. No. 1,339,972; May 11; v. 274; p. 323.
Welding, Electrical-arc. J. Churchward. No. 1,335,875; Apr. 6; v. 273; p. 32.
Welding, Electrically. A. Schmidt. No. 1,340,412; May 18; v. 274; p. 464.
Welding-electrode. J. W. Weed. No. 1,330,563; Feb. 10; v. 271; p. 259.
Welding electrode and making, Electrical-arc-. J. Churchward. No. 1,333,586; Mar. 9; v. 272; p. 319.
Welding electrode, Arc-. R. E. Kinkead. No. 1,329,530; Feb. 3; v. 271; p. 35.
Welding, Electrode for electric. R. Mattice. No. 1,361,269; Dec. 7; v. 281; p. 57.
Welding generator, Arc-. A. M. Bennett. No. 1,346,164; July 13; v. 276; p. 226.
Welding heavy-gage tubing. H. H. Belmont. No. 1,354,593; Oct. 5; v. 279; p. 29.
Welding, Holder for use in coating rods for electric. F. W. Pershing. No. 1,354,418; Sept. 28; v. 278; p. 673.
Welding, Joining metals by electric. C. H. Kicklighter. No. 1,340,170; May 18; v. 274; p. 419.
Welding-machine. A. G. F. Fargues. No. 1,329,890; Feb. 3; v. 271; p. 102.
Welding-machine. W. F. Hendry. No. 1,360,948; Nov. 30; v. 280; p. 952.
Welding-machine. R. E. Wagner and W. E. Laird. No. 1,353,684; Sept. 21; v. 278; p. 482.
Welding machine, Autogenous-flame-. H. Cave, and J. L. Anderson. No. 1,341,840; June 1; v. 275; p. 45.
Welding-machine, Automatic. O. A. Kenyon. No. 1,362,491; Dec. 14; v. 281; p. 347.
Welding-machine, Combination. H. M. Smith. No. 1,351,446; Aug. 31; v. 277; p. 880.
Welding-machine, Duplex rotary electric. J. Ledwinka. No. 1,351,717; Aug. 31; v. 277; p. 933.
Welding-machine, Electric. M. F. Hill. No. 1,330,468; Feb. 10; v. 271; p. 241.
Welding machine, Electric-arc-. J. L. Adams, Jr., and H. H. Welch. No. 1,343,607; June 15; v. 275; p. 507.
Welding machine, Electric-arc-. R. S. Smith. No. 1,347,184; July 20; v. 276; p. 486.
Welding-machine, Electrical. E. M. Bassler. No. 1,338,762; May 4; v. 274; p. 21.
Welding machine, Flame-. W. C. Bucknam. No. 1,341,839; June 1; v. 275; p. 45.
Welding machine, Magnetic flame-. W. J. Buckley. No. 1,343,346; June 15; v. 275; p. 456.
Welding machine, Tube-. W. R. Edwards. No. 1,356,054; Oct. 19; v. 279; p. 408.
Welding-machines, Contact-slide for. P. W. Krall. No. 1,360,118; Nov. 23; v. 280; p. 722.
Welding, Means of cleaning metal preparatory to. S. C. Cary. No. 1,326,913; Jan. 6; v. 270; p. 5.
Welding, Metal. E. C. Lipps. No. 1,342,717; June 8; v. 275; p. 268.
Welding metal bodies, Electrically. T. E., Jr., and J. B. Murray. No. 1,339,967; May 11; v. 274; p. 322.
Welding metal plates, Electrically. C. H. Kicklighter. No. 1,347,278; July 20; v. 276 p. 506.
Welding, Metallic-arc. J. Churchward. No. 1,337,543; Apr. 20; v. 273; p. 483.
Welding mechanism. J. T. Griffin. No. 1,360,288; Nov. 30; v. 280; p. 824.
Welding method and apparatus, Electric-. A. Churchward. No. 1,355,124; Oct. 12; v. 279; p. 186.
Welding, Method of and apparatus for. S. Lake. No. 1,335,584; Mar. 30; v. 272; p. 861.
Welding, Method of and apparatus for electric. J. W. Holt. No. 1,334,756; Mar. 23; v. 272; p. 646.
Welding, Method of and apparatus for electric. N. Wilkinson. No. 1,351,271; Aug. 31; v. 277; p. 845.
Welding, Method of and apparatus for spot-. C. L. Fortesque. No. 1,327,814; Jan. 13; v. 270; p. 236.
Welding, Multiple-arc. O. A. Kenyon. No. 1,340,056; May 11; v. 274; p. 339.
Welding objects. C. F. Jacobs. No. 1,330,446; Feb. 10; v. 271; p. 237.
Welding or cutting, Electrode-holder for use in electric-arc. C. B. Waters. No. 1,332,241; Mar. 2; v. 272; p. 12.
Welding, Process and product of electric. E. Fulda. No. 1,344,125; June 22; v. 275; p. 674.
Welding process, Electrical. E. A. Taylor. No. 1,346,350; July 13; v. 276; p. 264.
Welding railway-rails. C. F. Jacobs. No. 1,330,761; Feb. 10; v. 271; p. 296.
Welding, Resistance-. J. H. Gravell. No. 1,342,957; June 8; v. 275; p. 316.
Welding-rod. J. Harris. No. 1,358,311; Nov. 9; v. 280; p. 275.
Welding-rod. R. F. Russell. No. 1,352,534; Sept. 14; v. 278; p. 193.
Welding, Slug-. J. H. Gravell. No. 1,354,293; Sept. 28; v. 278; p. 648.
Welding steel, Electrically. J. W. Plant. No. 1,354,266; Sept. 28; v. 278; p. 643.
Welding system. C. J. Holslag. No. 1,354,398; Sept. 28; v. 278; p. 669.
Welding system, Alternating-current. O. H. Eschholz and H. Tahoe. No. 1,343,205; June 15; v. 275; p. 430.
Welding system, Arc-. A. M. Bennett. No. 1,357,486; Nov. 2; v. 280; p. 53.
Welding system, Arc-. O. H. Eschholz. No. 1,329,233; Jan. 27; v. 270; p. 569.
Welding system, Arc-. O. H. Eschholz. No. 1,343,199; June 15; v. 275; p. 429.
Welding system, Arc-. O. H. Eschholz. No. 1,343,200; June 15; v. 275; p. 429.
Welding system, Arc-. O. H. Eschholz. No. 1,343,201; June 15; v. 275; p. 429.
Welding system, Arc-. H. Fahnoe. No. 1,351,030; Aug. 31; v. 277; p. 798.
Welding system, Electric. D. H. Wilson. No. 1,333,359; Mar. 9; v. 272; p. 276.
Welding system, Electric-arc-. A. M. Candy. No. 1,343,194; June 15; v. 275; p. 428.
Welding system, Electric-arc-. O. H. Eschholz and H. Fahnoe. No. 1,343,202; June 15; v. 275; p. 429.
Welding system, Electric-arc-. O. H. Eschholz. No. 1,343,203; June 15; v. 275; p. 429.
Welding system, Electric-arc-. O. H. Eschholz. No. 1,343,204; June 15; v. 275; p. 429.
Welding system, Electric-arc-. O. H. Eschholz. No. 1,343,206; June 15; v. 275; p. 430.
Welding system, Electric-arc-. O. H. Eschholz. No. 1,343,207; June 15; v. 275; p. 430.
Welding system, Electric-arc-. H. Fahnoe. No. 1,343,208; June 15; v. 275; p. 430.
Welding the sections of a hollow object, Apparatus for electrically. J. B. and T. E. Murray, Jr. No. 1,333,274; Mar. 9; v. 272; p. 260.
Welding together the edges of thin metal plates, Electrically. T. E. Murray. No. 1,363,156; Dec. 21; v. 281; p. 528.
Welding transverse plates to tubes, Electrically. T. E. Murray. No. 1,350,833; Aug. 24; v. 277; p. 697.
Welding, Uniting vertical plates by electric. E. Fulda. No. 1,328,919; Jan. 27; v. 270; p. 510.
Well appliance, Oil-. L. J. Mildren. No. 1,344,922; June 29; v. 275; p. 895.
Well-boring apparatus. H. R. Decker. No. 1,355,896; Oct. 19; v. 279; p. 377.
Well-boring apparatus. T. P. Shean. No. 1,348,325; Aug. 3; v. 277; p. 39.
Well-boring, Fishing-tool for use in. H. S. Cairns. No. 1,336,815; Apr. 13; v. 273; p. 270.
Well-bucket bottom. A. G. Burrows. No. 1,333,793; Mar. 16; v. 272; p. 418.
Well-capping device. E. H. McCoy. No. 1,335,588; Mar. 30; v. 272; p. 862.

Digitized by Google

Alphabetical list of inventions—Continued.

Well-casings, Shoe-guide for. R. C. Baker. No. 1,359,017; Nov. 16; v. 280; p. 461.
Well-cleaner. S. F. Bashara. No. 1,342,618; June 8; v. 275; p. 248.
Well-cleaner. L. H. Sargent. No. 1,345,555; July 6; v. 276; p. 45.
Well cleaner, Oil-. F. J. Stumpf. No. 1,360,053; Nov. 23; v. 280; p. 709.
Well-cleaning apparatus. G. W. Russell. No. 1,340,295; May 18; v. 274; p. 441.
Well-cleaning device. W. E. Dickinson. No. 1,333,390; Mar. 9; v. 272; p. 282.
Well construction. P. E. Vaughan and S. M. Halstead. No. 1,353,132; Sept. 14; v. 278; p. 312.
Well controller, Oil-. C. E. Sage. No. 1,354,694; Oct. 5; v. 279; p. 50.
Well-curb. A. C. Giles. No. 1,341,551; May 25; v. 274; p. 753.
Well derricks, Spool for oil-. N. L. Sybert. No. 1,342,653; June 8; v. 275; p. 255.
Well digging outfits, Compensating apparatus for. O. E. Oakes. No. 1,351,867; Sept. 7; v. 278; p. 31.
Well-drilling apparatus, Rotary. C. S. Wright. No. 1,331,309; Feb. 17; v. 271; p. 467.
Well-drilling bit for oil, water, or gas. J. D. Pace. No. 1,351,003; Aug. 24; v. 277; p. 729.
Well-drilling device. W. L. Church. No. 1,330,736; Feb. 10; v. 271; p. 291.
Well-drilling device. J. D. Morrison. No. 1,338,460; Apr. 27; v. 273; p. 726.
Well-drilling machine, Artesian-. M. Prado. No. 1,338,442; Mar. 9; v. 272; p. 291.
Well-drilling machines, Gearing for use in oil-. H. J. Lockhart. No. 1,338,455; Apr. 27; v. 273; p. 725.
Well-drilling rig. R. M. Bradford. No. 1,329,500; Feb. 3; v. 271; p. 30.
Well-drilling rigs, Rope or cable clamp for. O. C. Zuck and L. O. Bacon. No. 1,358,013; Nov. 16; v. 280; p. 460.
Well-drilling taper tap. R. E. Fair. No. 1,335,431; Mar. 30; v. 272; p. 833.
Well-drilling-tool strings, Controlling means for. R. E. Leonard. No. 1,354,769; Oct. 5; v. 279; p. 64.
Well fishing-tool, Oil-. M. M. McGregor. No. 1,357,508; Nov. 2; v. 280; p. 58.
Well heater, Oil-. G. S. Hollister and E. B. Cooper. No. 1,360,404; Nov. 30; v. 280; p. 845.
Well-making apparatus. P. J. Gildea. No. 1,331,103; Feb. 17; v. 271; p. 430.
Well meter and sampler, Oil-. H. W. Gender. No. 1,341,898; June 1; v. 275; p. 56.
Well-packer and setting-tool, Combination. J. Abercrombie and N. M. Dunman. No. 1,327,077; Jan. 6; v. 270; p. 37.
Well-plugging apparatus. A. T. Ruthven. No. 1,342,927; June 8; v. 275; p. 311.
Well-plugs, Extractor for. T. P. Shean. No. 1,362,194; Dec. 14; v. 281; p. 289.
Well-pumps, Pump-head drive for rotary. M. V. Andrews and S. W. Holman. No. 1,364,017; Dec. 28; v. 281; p. 735.
Well-rig. E. D. Hiatt. No. 1,332,496; Mar. 2; v. 272; p. 62.
Well-screen. H. Burgard. No. 1,356,187; Oct. 19; v. 279; p. 435.
Well-screen. W. H. Cater. No. 1,342,986; June 8; v. 275; p. 322.
Well-screen. M. E. Layne. No. 1,328,438; Jan. 20; v. 270; p. 390.
Well-screen. L. F. Layne. No. 1,335,975; Apr. 6; v. 273; p. 51.
Well-screen. M. E. Layne. No. 1,339,898; May 11; v. 274; p. 309.
Well-screen. W. E. Minton. No. 1,341,755; June 1; v. 275; p. 29.
Well-sinking apparatus. M. J. Chapman. No. 1,343,902; June 22; v. 275; p. 631.
Wells, Apparatus for and process of lining. J. A. Hardel. No. 1,339,955; May 11; v. 274; p. 320.
Wells, Apparatus for cementing. J. A. Hardel. No. 1,330,023; Feb. 3; v. 271; p. 126.
Wells, Apparatus for raising liquids from deep. J. A. Hebert. No. 1,339,621; May 11; v. 274; p. 257.
Wells, Apparatus for removing paraffin from oil-. S. F. Rathvon. No. 1,358,393; Nov. 9; v. 280; p. 293.
Wells, Apparatus for separating oil and gas direct from. A. M. Ballard. No. 1,327,691; Jan. 13; v. 270; p. 213.
Wells, Apparatus for treating oil-. A. G. Popcke and W. R. Johnston. No. 1,354,757; Oct. 5; v. 279; p. 62.
Wells, Cleaning oil and gas. J. R. Dulang. No. 1,351,945; Sept. 7; v. 278; p. 47.
Wells, Device for taking samples from. R. D. Dodds. No. 1,335,880; Apr. 6; v. 273; p. 33.
Wells for oil, gas, &c., Device for testing. E. H. Cox. No. 1,347,534; July 27; v. 276; p. 612.
Wells, Gas-energy-control head for oil-. E. V. Crowell. No. 1,354,027; Sept. 28; v. 278; p. 593.
Wells, Gas-trap for. E. Forrest. No. 1,360,913; Nov. 30; v. 280; p. 945.
Wells, Method and apparatus for shutting water out of oil-. D. G. Vedder. No. 1,342,780; June 8; v. 275; p. 282.
Wells or pumps, Trap for oil. H. M. Riley. No. 1,334,678; Mar. 23; v. 272; p. 630.
Wells, Screening device for oil-. S. H. Huston. No. 1,342,813; June 8; v. 275; p. 289.
Wells, Sealing the walls of oil-. W. E. Nolan. No. 1,361,282; Dec. 7; v. 281; p. 60.
Wells, Shutting a deleterious fluid out of value-producing. D. G. Vedder. No. 1,342,781; June 8; v. 275; p. 282.
Wells, Swage for use in oil-. W. S. Pierce. No. 1,327,491; Jan. 6; v. 270; p. 114.
Wells, Torpedo for shooting oil-. J. A. Fryer and W. W. Wallace. No. 1,337,063; Apr. 13; v. 273; p. 318.
Wells, Valve for deep. C. M. Heeter. No. 1,351,906; Sept. 7; v. 278; p. 39.
Wells, Valve structure for oil-. J. P. McEvoy. No. 1,353,409; Sept. 21; v. 278; p. 426.
Wellpacker. H. W. Fletcher. No. 1,336,738; Apr. 13; v. 273; p. 256.
Welt-beating machine. A. F. Littlefield. No. 1,356,536; Oct. 26; v. 279; p. 550.
Welt, Finishing-. J. S. Delaney. No. 1,360,196; Nov. 23; v. 280; p. 737.
Welt-forming device. A. W. Liljeberg. No. 1,350,731; Aug. 24; v. 277; p. 678.
Welt-indenting machine. J. H. Rigby. No. 1,351,064; Aug. 31; v. 277; p. 804.
Welting, Continuous. P. E. Barbour. No. 1,334,829; Mar. 23; v. 272; p. 660.
Welting, Jointed. C. D. Libby. No. 1,353,251; Sept. 21; v. 278; p. 395.
Wet-coal mill, J. M. Schuts. No. 1,338,845; May 4; v. 274; p. 36.
Wet-mixer. R. V. Mattison, Jr. No. 1,344,306; June 22; v. 275; p. 710.
Wheat and like grain, Treating. D. M. Graham. No. 1,332,495; Mar. 2; v. 272; p. 61.
Wheel: *See*—

Automobile-wheel.	Gear-wheel.
Automobile cast-plate wheel.	Hand-wheel.
	Metal wheel.
Automobile collapsible wheel.	Non-skid wheel.
	Pneumatic wheel.
Automobile spoked wheel.	Polishing-wheel.
Automobile steering-wheel.	Power-wheel.
Auxiliary wheel.	Rasping-wheel.
Axle-wheel.	Resilient wheel.
Balance-wheel.	Roller-skate wheel.
Building and polishing wheel.	Sheet-metal wheel.
	Sheet-metal vehicle-wheel.
Bull-wheel.	Shock-absorbing wheel.
Car-wheel.	Spring-wheel.
Carcass-beating wheel.	Spring-spoke wheel.
Carcass-scraping wheel.	Steel wheel.
Cast-steel wheel.	Steering-wheel.
Convertible wheel.	Stone-polishing wheel.
Cushion-wheel.	Toy Ferris wheel.
Cushioned wheel.	Track-laying wheel.
Dehairing-wheel.	Traction-wheel.
Demountable wheel.	Traction and tread wheel.
Detachable wheel.	Tractor-wheel.
Disk wheel.	Trolley-wheel.
Driving and steering wheel.	Vehicle-wheel.
Dual-tired wheel.	Water-wheel.
Fan-wheel.	Windmill-wheel.
Feathering wheel.	Wire wheel.
Fifth wheel.	

Wheel. J. A. Charter. No. 1,327,310; Jan. 6; v. 270; p. 80.
Wheel. J. A. Charter. No. 1,361,227; Dec. 7; v. 281; p. 49.
Wheel. R. H. Clark. No. 1,354,466; Oct. 5; v. 279; p. 4.
Wheel. V. L. Downing. No. 1,339,439; May 11; v. 274; p. 222.
Wheel. R. M. Hansford. No. 1,361,722; Dec. 7; v. 281; p. 149.
Wheel. W. H. Holahan. No. 1,334,493; Mar. 23; v. 272; p. 596.
Wheel. W. H. Holahan. No. 1,334,494; Mar. 23; v. 272; p. 596.
Wheel. L. H. Krickel. No. 1,358,757; Nov. 16; v. 280; p. 410.
Wheel. M. Lachman. No. 1,338,936; May 4; v. 274; p. 53.
Wheel. E. H. Lewis. No. 1,346,756; July 13; v. 276; p. 344.
Wheel. S. E. Morral. No. 1,328,052; Jan. 13; v. 270; p. 281.
Wheel. F. Motasky. No. 1,330,884; Feb. 10; v. 271; p. 226.
Wheel. L. H. Perlman. No. 1,342,225; June 1; v. 275; p. 121.
Wheel. W. F. Pfau. No. 1,339,574; May 11; v. 274; p. 248.
Wheel. A. Prather. No. 1,327,253; Jan. 6; v. 270; p. 70.
Wheel. R. C. Racer. No. 1,354,844; Oct. 5; v. 279; p. 79.
Wheel. G. Reiner. No. 1,333,341; Mar. 9; v. 272; p. 273.
Wheel. S. C. Rose. No. 1,339,376; May 4; v. 274; p. 134.
Wheel. C. Steenstrup. No. 1,362,363; Dec. 14; v. 281 p. 322.
Wheel. P. A. Tourtier. No. 1,329,213; Jan. 27; v. 270; p. 565.

Digitized by Google

Wheel. G. Walther. No. 1,346,863; July 20; v. 276; p. 424.
Wheel. G. Walther. No. 1,346,864; July 20; v. 276; p. 424.
Wheel. G. Walther. No. 1,346,865; July 20; v. 276; p. 424.
Wheel. J. C. Welch. No. 1,342,784; June 8; v. 275; p. 283.
Wheel. M. L. Wiener. No. 1,335,037; Mar. 30; v. 272; p. 760.
Wheel. J. W. Williams. No. 1,337,869; Apr. 20; v. 273; p. 525.
Wheel. G. Yates. No. 1,338,527; Mar. 9; v. 272; p. 307.
Wheel and axle construction. J. A. Carter. No. 1,349,559; Aug. 17; v. 277; p. 404.
Wheel and demountable rim construction. J. Stungo. No. 1,351,587; Aug. 31; v. 277; p. 908.
Wheel and forming same, Vehicle-. W. N. Booth. No. 1,334,013; Mar. 16; v. 272; p. 460.
Wheel and gear puller. H. Thomason. No. 1,359,768; Nov. 23; v. 280; p. 653.
Wheel and making same, Metal-spoke. L. S. Lachman. No. 1,355,234; Oct. 12; v. 279; p. 208.
Wheel and spoke, Vehicle. F. T. Alder. No. 1,349,035; Aug. 10; v. 277; p. 227.
Wheel and tire, Solid. H. J. Ferris. No. 1,341,308; May 25; v. 274; p. 705.
Wheel-angle indicator. H. C. Luck. No. 1,362,428; Dec. 14; v. 281; p. 334.
Wheel attachment. E. E. Ellison. No. 1,357,448; Nov. 2; v. 280; p. 47.
Wheel attachment, Automobile-. F. Barniak. No. 1,360,866; Nov. 30; v. 280; p. 937.
Wheel attachment, Self-cleaning tractor-. W. H. Hill. No. 1,334,699; Mar. 23; v. 272; p. 634.
Wheel attachment, Vehicle-. C. S. Jansen. No. 1,358,156; Nov. 9; v. 280; p. 245.
Wheel-brake. C. B. Mills. (Reissue.) No. 14,797; Jan. 27; v. 270 p. 591.
Wheel-brake mechanism, Motor-car rear-. A. A. Sebastian and D. R. Capes. No. 1,348,452; Aug. 3; v. 277; p. 63.
Wheel-caster. H. Austin. No. 1,343,758; June 15; v. 275; p. 538.
Wheel cleat mechanism, Traction-. C. L. Pennell. No. 1,353,849; Sept. 28; v. 278; p. 557.
Wheel construction. E. J. Goodson. No. 1,351,640; Aug. 31; v. 277; p. 918.
Wheel construction. J. Riise. No. 1,365,505; Oct. 12; v. 279; p. 261.
Wheel construction. R. D. Streby. No. 1,344,699; June 22; v. 275; p. 768.
Wheel construction. W. R. Wilson. No. 1,328,667; Jan. 13; v. 270; p. 283.
Wheel construction, Band-. H. J. Lockhart. No. 1,339,852; May 11; v. 274; p. 301.
Wheel construction, Cushion-. W. C. Martin. No. 1,333,928; Mar. 16; v. 272; p. 443.
Wheel construction, Cushion-. W. C. Martin. No. 1,333,929; Mar. 16; v. 272; p. 444.
Wheel construction, Disk-. R. C. Hoffman. No. 1,358,850; Nov. 16; v. 280; p. 429.
Wheel-cushion and means for mounting same. A. L. Runyan. No. 1,348,684; June 15; v. 275; p. 528.
Wheel-defect and coupling-limit gage. A. McCormick. No. 1,346,224; July 13; v. 276; p. 238.
Wheel device, Free-. A. von Beaulieu. No. 1,362,591; Dec. 21; v. 281; p. 418.
Wheel device, Free-. C. W. Svenson. No. 1,330,407; Feb. 10; v. 271; p. 230.
Wheel-disks to hubs, Means for securing. F. J. Keegan. No. 1,329,527; Feb. 3; v. 271; p. 35.
Wheel-dresser. W. E. Ross. No. 1,330,656; Feb. 10; v. 271; p. 276.
Wheel-dressing mechanism. J. J. Thacher. No. 1,350,531; Aug. 24; v. 277; p. 639.
Wheel-drive mechanism, Front-. G. S. Duncan. No. 1,340,769; May 18; v. 274; p. 529.
Wheel equipment, Demountable-. J. S. Williams. No. 1,340,199; May 18; v. 274; p. 424.
Wheel filler unit, Laminated. M. W. Mix. No. 1,356,254; Apr. 6; v. 273; p. 104.
Wheel-guard. P. Feiden, Jr. No. 1,345,916; July 6; v. 276; p. 116.
Wheel-guard. W. H. Smith. No. 1,329,935; Feb. 3; v. 271; p. 110.
Wheel-gudgeon. W. B. Wigle. No. 1,349,030; Aug. 10; v. 277; p. 226.
Wheel holder, Plow-guide-. G. Hazelman. No. 1,351,362; Aug. 31; v. 277; p. 868.
Wheel hood, Ruffing-. E. Bertschinger. No. 1,357,398; Nov. 2; v. 280; p. 21.
Wheel-hub. E. P. Webster. No. 1,345,648; July 6; v. 276; p. 62.
Wheel-hub and bearing. J. R. Adams. No. 1,350,851; Aug. 24; v. 277; p. 700.
Wheel-hub and forming same. J. R. Winter. No. 1,337,808; Apr. 20; v. 273; p. 533.
Wheel-indicator. M. D. Beach. No. 1,328,978; Jan. 27; v. 270; p. 521.
Wheel knuckle-joints, Reinforcement for. W. E. Cantenburgh and G. S. Grams. No. 1,344,192; June 22; v. 275; p. 687.
Wheel-lift. W. L. Walton. No. 1,340,587; May 18; v. 274; p. 497.
Wheel-lifting device. Demountable-. A. O. Peltier. No. 1,349,581; Aug. 17; v. 277; p. 408.
Wheel-lock. I. Hadinger. No. 1,351,644; Aug. 31; v. 277; p. 919.
Wheel-lock. I. Issak. No. 1,358,744; Nov. 16; v. 280; p. 408.
Wheel-lock. C. A. Lindberg. No. 1,331,513; Feb. 24; v. 271; p. 526.
Wheel-lock. C. E. Thompson. No. 1,353,117; Sept. 14; v. 278; p. 309.
Wheel lock, Automobile-steering-. L. C. Vanderlip. No. 1,330,414; Feb. 10; v. 271; p. 281.
Wheel lock, Steering-. C. Brackbill. No. 1,356,511; Oct. 26; v. 279; p. 545.
Wheel lock, Steering-. T. D. Stanley. No. 1,354,630; Oct. 5; v. 279; p. 37.
Wheel lock, Steering-. L. C. Vanderlip. No. 1,359,921; Nov. 23; v. 280; p. 683.
Wheel-lubricator. J. Hutchinson and C. C. Hamilton. No. 1,328,959; Jan. 27; v. 270; p. 518.
Wheel mechanism. W. F. Wittich. No. 1,333,650; Mar. 16; v. 272; p. 392.
Wheel-mill. E. E. Slick. No. 1,327,685; Jan. 13; v. 270; p. 202.
Wheel mounting, Steering-. L. Rial and W. Hebern. No. 1,350,841; Aug. 24; v. 277; p. 699.
Wheel of the sheet-metal type, Road-. H. Austin. No. 1,340,697; May 18; v. 274; p. 518.
Wheel or pulley. R. H. Rogers. No. 1,346,511; July 13; v. 276; p. 295.
Wheel or rim spreader. O. K. Sauder. No. 1,350,524; Aug. 24; v. 277; p. 638.
Wheel-puller. A. G. Albrecht. No. 1,354,271; Sept. 28; v. 278; p. 644.
Wheel-puller. E. R. Avery. No. 1,357,136; Oct. 26; v. 279; p. 667.
Wheel-puller. G. R. Fessenden. No. 1,357,698; Nov. 2; v. 280; p. 94.
Wheel-puller. G. E. Frisz and J. D. Wiltshire. No. 1,328,668; Jan. 20; v. 270; p. 432.
Wheel-retainer. C. A. Lindberg. No. 1,345,545; July 6; v. 276; p. 43.
Wheel-retaining spindle-cap. C. A. Lindberg. No. 1,354,114; Sept. 28; v. 278; p. 612.
Wheel-rim. C. F. Christopher. No. 1,346,178; July 13; v. 276; p. 229.
Wheel-rim. J. W. Cordell. No. 1,335,662; Mar. 30; v. 272; p. 876.
Wheel-rim. A. Davis and C. M. Clark. No. 1,363,498; Dec. 28; v. 281; p. 634.
Wheel-rim. W. A. Hayden. No. 1,362,307; Dec. 14; v. 281; p. 312.
Wheel-rim. C. Johnson. No. 1,363,182; Dec. 21; v. 281; p. 533.
Wheel-rim. A. E. Logan. No. 1,340,901; May 25; v. 274; p. 627.
Wheel-rim. J. M. Meredith, Jr. No. 1,362,433; Dec. 14; v. 281; p. 335.
Wheel-rim and manufacturing the same. G. Warwick. No. 1,359,552; Nov. 23; v. 280; p. 610.
Wheel-rim and sprocket-teeth therefor. G. W. Lingle. No. 1,327,107; Jan. 6; v. 270; p. 48.
Wheel-rim attachment, Vehicle-. I. A. Weaver. No. 1,333,647; Mar. 16; v. 272; p. 392.
Wheel-rim, Collapsible. G. F. Havens. No. 1,360,947; Nov. 30; v. 280; p. 952.
Wheel-rim, Cushioned. A. S. Duffies. No. 1,356,826; Sept. 21; v. 278; p. 409.
Wheel-rim, Demountable. W. A. Hayden. No. 1,362,306; Dec. 14; v. 281; p. 311.
Wheel-rim, Demountable. A. E. Henry. No. 1,327,759; Jan. 13; v. 270; p. 226.
Wheel-rim, Sectional. P. G. Beremand. No. 1,341,577; June 1; v. 275; p. 52.
Wheel-rim, Sectional. J. W. White. No. 1,340,694; May 11; v. 274; p. 346.
Wheel-rim, Tug. E. B. Wentworth. No. 1,334,696; Mar. 23; v. 272; p. 682.
Wheel rim, Vehicle-. W. Grimschedt. No. 1,348,187; July 27; v. 276; p. 738.
Wheel rim, Vehicle-. O. H. Sobski. No. 1,347,581; July 27; v. 276; p. 623.
Wheel rim, Vehicle-. J. C. Lewis. No. 1,362,494; Dec. 14; v. 281; p. 347.
Wheel rim, Vehicle-. J. C. Thieberath. No. 1,346,369; July 13; v. 276; p. 307.
Wheel rim, Vehicle-. J. C. Thieberath. No. 1,347,892; July 27; v. 276; p. 626.
Wheel-rims, Electric butt-welding and molding device for metal. J. W. Jackson. No. 1,348,948; Aug. 10; v. 277; p. 210.
Wheel-rims, Machine for finishing metallic. E. F. Goodyear. No. 1,328,170; Mar. 9; v. 272; p. 260.
Wheel-rims, Machine for rolling. E. F. Goodyear. No. 1,329,659; Feb. 3; v. 271; p. 58.
Wheel-rims, Sectional. M. A. and L. M. Endres. No. 1,337,446; Apr. 20; v. 273; p. 464.
Wheel-rims, Tool for contracting and expanding demountable. G. W. Armagost. No. 1,343,892; June 22; v. 275; p. 648.

Digitized by Google

Alphabetical list of inventions—Continued.

Wheel-spoke-repair means. E. A. Stoute. No. 1,350,528; Aug. 24; v. 277; p. 639.
Wheel structure, Organized-. J. E. Strietelmeier. No. 1,339,676; May 11; v. 274; p. 268.
Wheel structure, Resilient. E. E. La Rose. No. 1,335,449; Mar. 30; v. 272; p. 835.
Wheel transmission, Star-. M. Figour. No. 1,338,828; May 4; v. 274; p. 32.
Wheel tread, Automobile-. J. Serediuk. No. 1,346,262; July 13; v. 276; p. 246.
Wheel-truing stand, Wire-. H. A. House, Jr. No. 1,357,056; Oct. 26; v. 279; p. 652.
Wheel with demountable rim. J. C. Manternach and C. W. Gressle. No. 1,351,183; Aug. 31; v. 277; p. 827.
Wheel with demountable rim, Vehicle-. L. V. Anmble. No. 1,348,975. Aug. 10; v. 277; p. 215.
Wheel with demountable rim, Vehicle-. J. C. Manternach. No. 1,336,581; Apr. 13; v. 273; p. 215.
Wheels, Adjustable support for tractor. T. B. Funk. No. 1,354,545; Oct. 5; v. 279; p. 20.
Wheels, Air-valve hand-hole plate for disk. L. B. Harvey. No. 1,338,177; Apr. 27; v. 273; p. 673.
Wheels and means of fixing same, Detachable tread for. E. J. Leeding and A. A. Remington. No. 1,343,784; June 15; v. 275; p. 543.
Wheels and rails, Automatic apparatus for lubricating railway and tramway track. A. Hofmann. No. 1,329,406; Feb. 3; v. 271; p. 11.
Wheels and the like from shafts, Device for removing. H. Dotzer and S. G. Barnard. No. 1,361,316; Dec. 7; v. 281; p. 67.
Wheels, Antiskid attachment for. J. H. Hogaton. No. 1,344,273; June 22; v. 275; p. 703.
Wheels, Antiskid attachment for. M. S. Schwartz. No. 1,332,362; Mar. 2; v. 272; p. 36.
Wheels, Antiskid attachment for. J. M. Sievert. No. 1,358,500; Nov. 9; v. 280; p. 331.
Wheels, Antiskid attachment for vehicle-. A. McCullough. No. 1,339,854; May 11; v. 274; p. 301.
Wheels, Antiskid device for automobile-. C. E. Mahan. No. 1,339,963; May 11; v. 274; p. 322.
Wheels, Antiskid device for autotruck-. L. W. Holmes. No. 1,329,764; Feb. 3; v. 271; p. 78.
Wheels, Antiskid device for autotruck-. L. W. Holmes. No. 1,329,765; Feb. 3; v. 271; p. 78.
Wheels, Antiskid device for dual-tire autotruck-. L. W. Holmes. No. 1,329,766; Feb. 3; v. 271; p. 78.
Wheels, Antiskid device for vehicle-. C. D. Schmidt. No. 1,347,524; July 27; v. 276; p. 610.
Wheels, Antiskid device for vehicle-. C. P. Smith. No. 1,331,945; Feb. 24; v. 271; p. 607.
Wheels, Antislipping device for vehicle-. S. R. McClay. No. 1,341,331; May 25; v. 274; p. 710.
Wheels, Apparatus for casting hollow one-piece spoke-. B. L. Smith. No. 1,328,852; Jan. 27; v. 270; p. 497.
Wheels, Apparatus for forming cast-metal. C. K. Woodin, G. E. Karl, and J. F. Kolczynski. No. 1,358,911; Nov. 16; v. 280; p. 441.
Wheels, Assembling spoked. W. J. Katz. (Reissue.) No. 14,803; Feb. 10; v. 271; p. 295.
Wheels, Attachment for automobile and other. M. Schick. No. 1,332,273; Mar. 2; v. 272; p. 18.
Wheels, Casting propeller-. T. O. Thacher. No. 1,330,661; Feb. 10; v. 271; p. 277.
Wheels, Casting worm-gear. D. Fitzpatrick. No. 1,358,190; Nov. 9; v. 280; p. 251.
Wheels, Deflation-alarm for pneumatic-tired. A. Oerke, No. 1,359,098; Nov. 16; v. 280; p. 475.
Wheels, Demountable rim and lock therefor for. R. R. Craft. No. 1,338,072; Apr. 27; v. 273; p. 653.
Wheels, Demountable rim for. I. B. Bliss. No. 1,359,149; Nov. 16; v. 280; p. 485.
Wheels, Demountable rim for automobile-. W. J. Bruce. No. 1,347,144; July 20; v. 276; p. 479.
Wheels, Demountable rim for motor-truck. R. H. Blanton and H. L. Hooper. No. 1,338,208; Apr. 27; v. 273; p. 679.
Wheels, Device for governing. P. W. Seewer. (Reissue.) No. 14,962; Oct. 19; v. 279; p. 498.
Wheels from their axles, Tool for removing. C. W. Holland. No. 1,345,186; June 29; v. 275; p. 945.
Wheels, Generating worm-. C. H. Schurr. No. 1,32[illegible]805; Feb. 3; v. 271; p. 86.
Wheels, Hub-cap-locking device for wire-spoke or other demountable. C. Schenck. No. 1,333,636; Mar. 16; v. 272; p. 389.
Wheels, Locking device for steering-. W. W. Winchester. No. 1,352,491; Sept. 14; v. 278; p. 185.
Wheels, Machine for cleaning truck-. F. J. Wagner. No. 1,338,714; May 4; v. 274; p. 12.
Wheels, Manufacturing metal-spoke. E. Fulda. No. 1,340,945; May 25; v. 274; p. 635.
Wheels, Means for attaching spurs to traction-. H. R. Kidney. No. 1,332,261; Mar. 2; v. 272; p. 16.
Wheels, Means for securing antiskid chains to vehicle-. W. H. Krug. No. 1,330,876; Feb. 17; v. 271; p. 386.
Wheels, Means for tightening loose rims and spokes on automobile-. S. and W. E. Latterell. No. 1,331,653; Feb. 24; v. 271; p. 552.
Wheels, Method and apparatus for casting propeller-. T. O. Thacher. No. 1,330,660; Feb. 10; v. 271; p. 277.
Wheels, Mud-cleaning mechanism for tractor-. H. L. Williams. No. 1,341,093; May 25; v. 274; p. 664.
Wheels, Mud-lug for automobile-. J. A. Ramsey. No. 1,357,300; Nov. 2; v. 280; p. 19.
Wheels, Non-skidding device for. J. Urbanek. No. 1,345,291; June 29; v. 275; p. 966.
Wheels of automobiles from their axles, Removing the rear. B. H. Hollsworth. No. 1,342,907; June 8; v. 275; p. 307.
Wheels on motor-cars, Device for carrying spare. L. Rouanet. No. 1,357,593; Nov. 2; v. 280; p. 74.
Wheels, Plunger-rod for spring-. J. L. Harden. No. 1,367,968; Apr. 13; v. 273; p. 819.
Wheels, Power-transmitting device for automobile-. S. Billy. No. 1,354,670; Oct. 5; v. 279; p. 45.
Wheels, Producing. J. A. Anglada. No. 1,336,338; Apr. 6; v. 273; p. 119.
Wheels, Producing figure-. N. L. Jacobus. No. 1,357,565; Nov. 2; v. 280; p. 68.
Wheels, Producing metal. J. A. Anglada. No. 1,336,332; Apr. 6; v. 273; p. 118.
Wheels, Reinforced tread for spring-. S. Pytlewski. No. 1,327,843; Jan. 13; v. 270; p. 241.
Wheels, Resilient hub for vehicle-. C. F. Renard. No. 1,334,402; Mar. 23; v. 272; p. 579.
Wheels, Rim for pneumatic-tired. G. Rubino. No. 1,346,468; July 13; v. 276; p. 287.
Wheels, rollers, and like machine parts, Manufacturing. F. V. Hetzel. No. 1,331,269; Feb. 17; v. 271; p. 458.
Wheels, Rolling metallic. E. E. Slick. No. 1,333,137; Mar. 9; v. 272; p. 285.
Wheels, Safety-lock for wire. R. F. Timmons. No. 1,357,010; Oct. 26; v. 279; p. 643.
Wheels, Spoke and tire for automobile and truck. A. Collier. No. 1,329,111; Jan. 27; v. 270; p. 546.
Wheels, Spoke-nipple wrench for wire. L. H. Conley. No. 1,336,092; Mar. 30; v. 272; p. 770.
Wheels, Spring-tire for vehicle-. C. Drabek. No. 1,337,445; Apr. 20; v. 273; p. 464.
Wheels, Traction device for automobile-. D. P. Davies. No. 1,354,537; Oct. 5; v. 279; p. 18.
Wheels, Tread attachment for tractor-. J. C. F. Dick. No. 1,347,018; July 20; v. 276; p. 455.
Wheels, Wicket-gate for water-. J. C. Britcher. No. 1,357,440; Nov. 2; v. 280; p. 45.
Wheeled elevating device. D. E. Hennessy. No. 1,359,372; Nov. 16; v. 280; p. 529.
Wheeled rake. J. A. Burke. No. 1,331,317; Feb. 17; v. 271; p. 468.
Wheeled rake. T. J. Kincaid. No. 1,328,156; Jan. 13; v. 270; p. 300.
Wheelbarrow. J. Keminskis. No. 1,340,898; May 25; v. 274; p. 626.
Wheelbarrow. F. D. Vessey. No. 1,327,578; Jan. 6; v. 270; p. 186.
Whiffletree. W. Finger. No. 1,356,058; Oct. 19; v. 279; p. 409.
Whip-socket. R. F. Doll. No. 1,336,948; Apr. 13; v. 273; p. 296.
Whirligig. S. Smigielski. No. 1,327,360; Jan. 6; v. 270; p. 89.
Whistle. H. G. Balthasar. No. 1,331,975; Feb. 24; v. 271; p. 618.
Whistle. G. F. Hall. No. 1,327,323; Jan. 6; v. 270; p. 82.
Whistle. F. Parizek. No. 1,328,639; Jan. 20; v. 270; p. 428.
Whistle. J. C. Ward. No. 1,342,315; June 1; v. 275; p. 137.
Whistle and mounting. F. Parizek. No. 1,357,248; Nov. 2; v. 280; p. 9.
Whistles, Operating mechanism for. D. P. Fuller. No. 1,328,252; Jan. 13; v. 270; p. 319.
Wick. J. S. Brennan. No. 1,327,858; Jan. 13; v. 270; p. 244.
Wick cleaner and shaper. F. W. Spangler. No. 1,349,010; Aug. 10; v. 277; p. 222.
Wick-doubler. H. Sweet. No. 1,345,280; June 29; v. 275; p. 963.
Wick-holders. Manufacture of. L. T. Wilcox. No. 1,362,457; Dec. 14; v. 281; p. 349.
Wick-restricting means. L. S. Chadwick. No. 1,330,845; Feb. 17; v. 271; p. 380.
Wicker-panel. W. H. Stocker. No. 1,349,477; Aug. 10; v. 277; p. 314.
Wicket, Rotatable. J. Hecht. No. 1,346,823; July 20; v. 276; p. 416.
Winch. J. H. Holmes. No. 1,353,238; Sept. 21; v. 278; p. 393.
Winch. G. T. Macfarlane. No. 1,345,613; July 6; v. 276; p. 56.
Winch, Hollow-base electric. A. Cunningham. No. 1,356,131; Oct. 19; v. 279; p. 424.
Winches, Detachable device for operating awning-. A. B. Rippe. No. 1,345,027; June 29; v. 275; p. 914.
Wind-deflectors. J. C. Quintin. No. 1,364,053; Dec. 28; v. 281; p. 741.
Wind-indicator. C. R. Post. No. 1,344,315; June 22; v. 275; p. 711.
Wind instrument. D. T. Thomassian. No. 1,353,864; Sept. 28; v. 278; p. 561.

Digitized by Google

Wind instruments, Fingering mechanism for. E. E. Harvard. No. 1,332,336; Mar. 2; v. 272; p. 30.
Wind instruments, Key mechanism for wood. A. Loomis. No. 1,336,359; Apr. 6; v. 273; p. 124.
Wind-motor. C. L. Gill. No. 1,359,693; Nov. 23; v. 280; p. 637.
Wind-motor. J. G. Gracey. No. 1,352,952; Sept. 14; v. 278; p. 277.
Wind-motor. C. H. Killough. No. 1,359,605; Nov. 23; v. 280; p. 620.
Wind-screen for use on conveyances and like purposes. G. H. Ransom. No. 1,342,183; June 1; v. 275; p. 112.
Windmill. B. F. Bellows. No. 1,363,174; Dec. 21; v. 281; p. 531.
Windmill. C. D. Clipfell and G. Manikowske. No. 1,334,485; Mar. 23; v. 272; p. 594.
Windmill. C. F. Currey. No. 1,341,045; May 25; v. 274; p. 655.
Windmill. D. Domenico. No. 1,361,696; Dec. 7; v. 281; p. 144.
Windmill. J. C. Hansen-Ellehammer. No. 1,342,206; June 1; v. 275; p. 117.
Windmill. R. S. Levesque. No. 1,359,180; Nov. 16; v. 280; p. 490.
Windmill. F. S. McManigal. No. 1,333,987; Mar. 16; v. 272; p. 455.
Windmill. E. H. Manning. No. 1,330,380; Feb. 10; v. 271; p. 225.
Windmill. O. Olsson. No. 1,360,013; Nov. 23; v. 280; p. 701.
Windmill. W. A. Wilson. No. 1,352,859; Sept. 14; v. 278; p. 259.
Windmill. H. Zahnow. No. 1,349,182; Aug. 10; v. 277; p. 256.
Windmill-gearing. G. W. Roberts. No. 1,336,758; Apr. 13; v. 273; p. 259.
Windmill, Horizontal. J. F. Boettner. No. 1,334,882; Mar. 23; v. 272; p. 670.
Windmill-operated generator. F. A. Overstreet. No. 1,347,970; July 27; v. 276; p. 699.
Windmill, Power-. G. D. Foster. No. 1,329,299; Jan. 27; v. 270; p. 581.
Windmill-wheel. S. P. Pickett. No. 1,333,675; Mar. 16; v. 272; p. 397.
Windmills, Electric-generator attachment for. V. L. Sullivan. No. 1,336,544; Apr. 13; v. 273; p. 218.
Windmills, Electric generator attachment for. H. H. Taylor. No. 1,351,975; Sept. 7; v. 278; p. 52.
Windshield. O. E. Hunt. No. 1,355,079; Oct. 5; v. 279; p. 125.
Windshield. C. D. Keller. (Reissue.) No. 14,919; July 20; v. 276; p. 547.
Windshield. H. G. Smith. No. 1,352,094; Sept. 7; v. 278; p. 74.
Windshield. J. W. Tabor. No. 1,362,759; Dec. 21; v. 281; p. 451.
Windshield. C. Wells. No. 1,344,010; June 22; v. 275; p. 652.
Windshield, Aerial observer's. R. T. Vredenburgh. No. 1,352,106; Sept. 7; v. 278, p. 76.
Windshield and hinge therefor. C. P. Chamberlain. No. 1,338,487; Apr. 27; v. 273; p. 731.
Windshield attachment. G. Glaudel. No. 1,346,402; July 13; v. 276; p. 273.
Windshield, Automobile-. S. J. Meneely. No. 1,347,752; July 27; v. 276; p. 657.
Windshield, Auxiliary. G. R. Bentel. No. 1,345,061; June 29; v. 275; p. 921.
Windshield, Auxiliary. G. Glaudel. No. 1,343,318; June 15; v. 275; p. 450.
Windshield, Auxiliary. E. C. Hillman. No. 1,339,889; May 11; v. 274; p. 308.
Windshield, Auxiliary. C. E. Loyd. No. 1,356,213; Oct. 19; v. 279; p. 440.
Windshield, Auxiliary. E. B. Williams and B. E. Rieg. No. 1,345,053; June 29; v. 275; p. 919.
Windshield-cleaner. W. M. Folberth. No. 1,352,504; Sept. 14; v 278; p. 187.
Windshield-cleaner. A. F. Gillet. No. 1,345,167; June 29; v. 275; p. 942.
Windshield-cleaner. F. S. Gold. No. 1,347,628; July 27; v. 276; p. 632.
Windshield-cleaner. L. H. Morse and J. J. Tracy. No. 1,339,216; May 4; v. 274; p. 105.
Windshield-cleaner. L. H. Morse and J. J. Tracy. (Reissue.) No. 14,920; July 20; v. 276; p. 547.
Windshield-cleaner. J. R. Oishei. No. 1,362,175; Dec. 14; v. 281; p. 285.
Windshield-cleaner. C. A. Shea. No. 1,345,330; June 29; v. 275; p. 973.
Windshield-cleaner. J. F. White. No. 1,349,989; Aug. 17; v. 277; p. 487.
Windshield cleaner, Automobile-. O. C. Ritz-Woller. No. 1,351,218; Aug. 31; v. 277; p. 834.
Windshield-cleaner, Duplex. H. C. Tripp. No. 1,339,241; May 4; v. 274; p. 109.
Windshield-cleaners, Bracket for. A. B. Beitman. No. 1,347,201; July 20; v. 276; p. 489.
Windshield-cleaning device. E. A. Tverdahl. No. 1,350,751; Aug. 24; v. 277; p. 682.
Wind-shield dimmer. C. Machacek, Jr. No. 1,332,225; Mar. 2; v. 272; p. 9.
Windshield-holder. J. Erret. No. 1,338,004; Apr. 27; v. 273; p. 640.
Windshield-joint, Sliding. C. P. Chamberlin. No. 1,341,413; May 25; v. 274; p. 726.
Windshield, Motorcycle-. W. S. Harley. No. 1,360,945; Nov. 30; v. 280; p. 951.
Windshield-protector. J. Bedard. No. 1,345,826; July 6; v. 276; p. 98.
Wind-shield protector, Adjustable. J. T. Radcliffe. No. 1,332,753; Mar. 2; v. 272; p. 111.
Windshield screen. W. B. Herbst. No. 1,337,472; Apr. 20; v. 273; p. 469.
Windshield screen. F. McMahon and R. A. Houston. No. 1,346,664; July 13; v. 276; p. 325.
Wind-shield screen. A. A. MacDonell. No. 1,333,028; Mar. 9; v. 272; p. 214.
Windshield-screen, Automobile. G. W. Cissel and J. P. Appleman. No. 1,345,585; July 6; v. 276; p. 51.
Windshield-supporting device, Vehicle. F. Dobmeier. No. 1,361,837; Dec. 14; v. 281; p. 218.
Windshield, Vehicle-. L. A. Hill. No. 1,341,464; May 25; v. 274; p. 736.
Windshield, Vehicle-. J. L. Nilson and J. Prince. No. 1,349,430; Aug. 10; v. 277; p. 305.
Windshield, Vehicle-wheel. A. O. Abbott. No. 1,359,647; Nov. 23; v. 280; p. 628.
Windshield-wiper. V. H. Christen. No. 1,343,310; June 15; v. 275; p. 449.
Windshield-wiper. P. F. Degenkolb. No. 1,357,691; Nov. 2; v. 280; p. 92.
Windshield-wiper. L. W. Gates. No. 1,345,541; July 6; v. 276; p. 42.
Windshields, Duplex joint for. C. P. Chamberlin. No. 1,360,721; Nov. 30; v. 280; p. 908.
Wind-shields, End extension to automobile. W. J. Chase. No. 1,342,794; June 8; v. 275; p. 285.
Windshields or analogous surfaces, Mechanism for cleaning glass. G. E. and J. W. Doughty. No. 1,359,797; Nov. 23; v. 280; p. 658.
Winder. B. A. Peterson. No. 1,362,636; Dec. 21; v. 281; p. 427.
Winder and holder, Twine. C. R. Thomas. No. 1,329,442; Feb. 3; v. 271; p. 18.
Winder, Bobbin-. P. Saurusaitis. No. 1,360,802; Nov. 30; v. 280; p. 924.
Winder, Level-. A. Vasselli. No. 1,328,066; Jan. 13; v. 270; p. 283.
Winders, Automatic cutting-off device for thread-. N. Rail. No. 1,328,196; Jan. 13; v. 270; p. 308.
Winding and cutting cloth, Machine for. H. Rubin. No. 1,361,185; Dec. 7; v. 281; p. 40.
Winding and dyeing machine and winding and dyeing yarn and thread. J. A. Firsching. No. 1,339,184; May 4; v. 274; p. 99.
Winding and reversing machine, Automatic. C. Uebelmesser. No. 1,326,997; Jan. 6; v. 270; p. 22.
Winding attachment, Film-. C. H. Mansfield. No. 1,327,245; Jan. 6; v. 270; p. 69.
Winding device, Strip-. A. H. De Voe. No. 1,334,652; Mar. 23; v. 272; p. 626.
Winding device, Warp-. J. Dalby. No. 1,330,583; Feb. 10; v. 271; p. 262.
Winding-machine. J. C. Anderson. No. 1,344,482; June 22; v. 275; p. 735.
Winding-machine. J. C. Anderson. No. 1,357,434; Nov. 2; v. 280; p. 44.
Winding-machine. E. C. Chapman. No. 1,335,426; Mar. 30; v. 272; p. 832.
Winding-machine. J. F. Comstock. No. 1,346,635; July 13; v. 276; p. 320.
Winding-machine. G. W. Foster. No. 1,347,626; July 27; v. 276; p. 631.
Winding-machine. F. A. Holt and G. Kershaw. No. 1,353,474; Sept. 21; v. 278; p. 438.
Winding-machine. F. A. Holt and G. Kershaw. No. 1,353,475; Sept. 21; v. 278; p. 439.
Winding-machine. P. F. Rhoades. No. 1,353,269; Sept. 21; v. 278; p. 398.
Winding-machine. E. H. Ryon. No. 1,337,727; Apr. 20; v. 273; p. 518.
Winding-machine. W. F. Smith. No. 1,362,648; Dec. 21; v. 281; p. 428.
Winding-machine. W. P. Wood. No. 1,334,427; Mar. 23; v. 272; p. 584.
Winding-machine. W. P. Wood. No. 1,352,930; Sept. 14; v. 278; p. 273.
Winding machine, Bobbin-. J. Dalby. No. 1,343,768; June 15; v. 275; p. 539.
Winding machine, Circular weft-. A. Schaufelberger. No. 1,343,481; June 15; v. 275; p. 483.
Winding machine, Cone-. G. Marcroft. No. 1,348,291; Aug. 3; v. 277; p. 32.
Winding-machine for the manufacture of hollow insulating cylinders for electrotechnical purposes. E. Haefely. No. 1,328,792; Jan. 20; v. 270; p. 456.
Winding machine, Yarn-. W. Parker. No. 1,343,333; June 15; v. 275; p. 453.
Winding machine, Yarn-. D. N. and R. C. Piscitello. No. 1,360,790; Nov. 30; v. 280; p. 922.
Winding machines, Chuck for ribbon-. E. A. Oppenheimer. No. 1,352,376; Sept. 7; v. 278; p. 127.

Digitized by Google

Alphabetical list of inventions—Continued.

Winding-machines, Means for securing thread ends on. A. F. McCollum. No. 1,333,863; Mar. 16; v. 272; p. 431.
Winding-machines, Tension device for. A. F. McCollum. No. 1,333,862; Mar. 16; v. 272; p. 431.
Winding machines, Tension-evener for yarn-. W. Milton. No. 1,326,950; Jan. 6; v. 270; p. 13.
Winding mechanism. R. M. Johnstone. No. 1,355,106; Oct. 5; v. 279; p. 130.
Winding mechanism. R. M. Johnstone. No. 1,355,107; Oct. 5; v. 279; p. 130.
Winding mechanism. C. D. Lanning. No. 1,344,449; June 22; v. 275; p. 738.
Winding mechanism. J. F. O'Connor. No. 1,361,480; Dec. 7; v. 281; p. 101.
Winding mechanism. M. S. Rosenfeld. No. 1,331,584; Feb. 24; v. 271; p. 539.
Winding mechanism, Armature and coil. P. E. Chapman. No. 1,351,230; Aug. 31; v. 277; p. 837.
Winding mechanism, Film-. R. Kroedel. No. 1,335,742; Apr. 6; v. 273; p. 7.
Winding-reel. A. J. Hare. No. 1,340,712; May 18; v. 274; p. 520.
Winding take-up reels, Method and apparatus for. M. S. Rosenfeld. No. 1,331,578; Feb. 24; v. 271; p. 538.
Winding yarn, Hand-spindle for and method of. J. S. Robertson. No. 1,330,093; Feb. 10; v. 271; p. 171.
Windlass, Automobile-. M. A. Davis. No. 1,337,754; Apr. 20; v. 273; p. 524.
Window. C. Albonesi. No. 1,342,411; June 8; v. 275; p. 209.
Window. J. Belanger. No. 1,359,221; Nov. 16; v. 280; p. 490.
Window. H. B. Chaffee. No. 1,363,887; Dec. 28; v. 281; p. 700.
Window. J. C. Dunham. No. 1,348,127; July 27; v. 276; p. 731.
Window. G. A. Fair. No. 1,345,915; July 6; v. 276; p. 116.
Window. G. A. Fair. No. 1,359,975; Nov. 23; v. 280; p. 694.
Window. B. Hausmann. No. 1,331,342; Feb. 17; v. 271; p. 473.
Window. J. G. Lopata. No. 1,345,325; June 29; v. 275; p. 972.
Window. B. S. McClellan. No. 1,329,003; Jan. 27; v. 270; p. 526.
Window. A. Motteau. No. 1,343,520; June 15; v. 275; p. 490
Window. H. Watson. No. 1,360,481; Nov. 30; v. 280; p. 861.
Window. J. W. White. No. 1,344,529; June 22; v. 275; p. 754.
Window. F. A. Winslow. No. 1,351,083; Aug. 31; v. 277; p. 807.
Window and counterbalancing ventilating window-sashes. G. W. Lancaster. No. 1,361,163; Dec. 7; v. 281; p. 86.
Window and door frames, Flashing for. T. Pierrepont. No. 1,330,609; Feb. 10; v. 271; p. 267.
Window and its frame, Sliding. W. A. Wilson. No. 1,351,315; Aug. 31; v. 277; p. 854.
Window and wall cleaner. H. Engel and E. Feldman. No. 1,352,122; Sept. 7; v. 278; p. 79.
Window attachment. J. B. Clermont. No. 1,338,488; Apr. 27; v. 273; p. 781.
Window attachment. M. P. Dysart. No. 1,339,178; May 4; v. 274; p. 98.
Window attachment. J. E. Galbraith. No. 1,350,147; Aug. 17; v. 277; p. 517.
Window, Automobile-curtain. G. I. Bair. No. 1,353,306; Sept. 21; v. 278; p. 406.
Window, Automobile curtain-. F. W. Morse. No. 1,356,389; Oct. 19; v. 279; p. 474.
Window, Automobile-curtain. B. Nauckhoff. No. 1,355,247; Oct. 12; v. 279; p. 211.
Window, Automobile curtain-. J. M. Simmons. No. 1,341,082; May 25; v. 274; p. 662.
Window, Automobile curtain-. J. E. Spencer and A. C. Lillie. No. 1,331,683; Feb. 24; v. 271; p. 558.
Window, Automobile curtain-. H. A. Williams. No. 1,334,824; Mar. 23; v. 272; p. 659.
Window-awning. J. Pokorny. No. 1,332,752; Mar. 2; v. 272; p. 110.
Window, Balanced. W. S. Kellogg. No. 1,352,971; Sept. 14; v. 278; p. 281.
Window, Balanced. W. W. Myers. No. 1,359,095; Nov. 16; v. 280; p. 475.
Window-blind rollers, curtains, valences, and the like, Support for. H. Umphrey. No. 1,346,354; July 13; v. 276; p. 264.
Window-bolt for concrete buildings. W. W. Sleight. No. 1,362,749; Dec. 21; v. 281; p. 449.
Window-bracket. J. A. Crozier. No. 1,327,025; Jan. 6; v. 270; p. 28.
Window, Casement-. E. G. Baxter. No. 1,332,593; Mar. 2; v. 272; p. 80.
Window, Casement-. T. Nixon. No. 1,331,821; Feb. 24; v. 271; p. 584.
Window, Casement-. A. A. Sebastian. No. 1,361,918; Dec. 14; v. 281; p. 234.
Window-cleaner. S. B. Bedell. No. 1,355,646; Oct. 12; v. 279; p. 287.
Window-cleaner. A. P. Bennett. No. 1,355,728; Oct. 12; v. 279; p. 304.
Window-cleaner. M. Goldstone. No. 1,353,741; Sept. 21; v. 278; p. 493.
Window-cleaner. J. A. Howard, Sr. No. 1,357,869; Nov. 2; v. 280; p. 128.
Window-cleaner. J. T. Piggott. No. 1,348,443; Aug. 3; v. 277; p. 61.
Window-cleaner. L. Sonderegger. No. 1,359,443; Nov. 16; v. 280; p. 543.
Window-cleaner. O. C. R. Woller. No. 1,363,490; Dec. 28; v. 281; p. 633.
Window cleaner and wiper. E. E. Ricks. No. 1,341,590; May 25; v. 274; p. 760.
Window-cleaners' devices, Coupling for. W. W. Sleight. No. 1,320,401; Feb. 10; v. 271; p. 229.
Window-cleaning attachment. F. V. Bank. No. 1,336,672; Apr. 13; v. 278; p. 248.
Window-cleaning device. T. J. Derry. No. 1,338,002; Apr. 27; v. 273; p. 640.
Window-cleaning device. A. Sundh. No. 1,346,348; July 13; v. 276; p. 263.
Window-cleaning device. H. Waywell. No. 1,358,804; Nov. 16; v. 280; p. 420.
Window, Clear-vision. G. S. Goodwin and J. J. Acker. No. 1,327,321; Jan. 6; v. 270; p. 82.
Window-closing device. H. I. Huey. No. 1,348,131; July 27; v. 276; p. 732.
Window-closure device. T. H. Bell and J. G. Schoenleber. No. 1,356,123; Oct. 19; v. 279; p. 422.
Window construction. J. F. Etchison. No. 1,348,700; Aug. 3; v. 277; p. 110.
Window construction. B. Jones. No. 1,357,560; Nov. 2; v. 280; p. 69.
Window construction. C. and L. Lerner. No. 1,359,397; Nov. 16; v. 280; p. 534.
Window construction. A. MacKinnon. No. 1,330,714; Feb. 10; v. 271; p. 287.
Window construction, Metallic. B. T. Mesker and C. E. Smith. No. 1,327,441; Jan. 6; v. 270; p. 104.
Window-controlling device. E. Fontquerni-Vila. No. 1,348,275; Aug. 3; v. 277; p. 29.
Window, Curtain-. W. J. Decker. No. 1,347,499; July 27; v. 276; p. 606.
Window, Curtain-. G. W. Kerr. No. 1,365,602; July 6; v. 276; p. 54.
Window curtain and shade hanger, Combined. E. W. Cranford. No. 1,332,247; Mar. 2; 1. 272; p. 13.
Window fastener, Storm-. C. R. Sibley. No. 1,354,222; Sept. 28; v. 278; p. 633.
Window-fastening means. W. W. Myers. No. 1,326,956; Jan. 6; v. 270; p. 14.
Window-frame. C. E. Anderson. No. 1,345,471; July 6; v. 276; p. 28.
Window-frame. H. P. Davis. No. 1,339,170; May 4; v. 274; p. 96.
Window-frame. B. Schechter. No. 1,359,624; Nov. 23; v. 280; p. 624.
Window frame and sash. J. Firner. No. 1,330,034; Feb. 3; v. 271; p. 128.
Window-frame and sash. J. Schebora. No. 1,332,361; Mar. 2; v. 272; p. 86.
Window frame and sash of the sliding-sash type, Metal. F. J. J. Gibbons. No. 1,345,669; July 6; v. 276; p. 67.
Window-frame, Metal. H. H. Garratt. No. 1,354,821; Oct. 5; v. 279; p. 75.
Window-frame, Removable. F. A. Gerber. No. 1,363,770; Dec. 28; v. 281; p. 687.
Window-frame, Revolving. A. P. McClair. No. 1,346,663; July 13; v. 276; p. 325.
Window-frame support. E. Gelbke. No. 1,347,694; July 27; v. 276; p. 645.
Window-frame with sash-cord holder. T. Christoffel. No. 1,344,532; June 22; v. 275; p. 755.
Window-glass silencer. T. J. Martin. No. 1,363,528; Dec. 28; v. 281; p. 640.
Window-guard. G. W. Bickerton. No. 1,330,932; Feb. 17; v. 271; p. 397.
Window-guard. I. D. Braune. No. 1,333,896; Mar. 16; v. 272; p. 437.
Window-guard. A. Josler. No. 1,346,094; July 6; v. 276; p. 152.
Window-guard. D. J. Mahoney. No. 1,349,521; Aug. 10; v. 277; p. 324.
Window-guard. M. Wilson. No. 1,356,953; Oct. 26; v. 279; p. 931.
Window-guard, Automatic. J. Myvalt and A. S. Eliason. No. 1,355,246; Oct. 12; v. 279; p. 211.
Window hardware, Casement-. F. W. Stevens. No. 1,334,412; Mar. 23; v. 272; p. 581.
Window hardware, Casement-. F. W. Stevens. (Reissue.) No. 14,993; Nov. 23; v. 280; p. 749.
Window-holder. T. J. Heady. No. 1,353,655; Sept. 21; v. 278; p. 476.
Window-jack. E. W. Robinson. No. 1,330,348; Feb. 10; v. 271; p. 219.
Window-lifting apparatus. E. G. Simpson, C. J. Schmidt, and F. P. Carstens. No. 1,343,410; June 15; v. 275; p. 468.
Window-lock. R. Bellinger. No. 1,338,416; Apr. 27; v. 273; p. 718.

Digitized by Google

Window-lock. J. Bulanda. No. 1,340,876; May 25; v. 274; p. 622.
Window-lock. F. Haldeman. No. 1,337,513; Apr. 20; v. 273; p. 477.
Window-lock. A. J. Huffer. No. 1,351,650; Aug. 31; v. 277; p. 920.
Window-lock. F. Iucolano. No. 1,341,173; May 25; v. 274; p. 680.
Window-lock. S. Krafka. No. 1,329,977; Feb. 3; v. 271; p. 118.
Window-lock. J. J. Needle. No. 1,358,867; Nov. 16; v. 280; p. 432.
Window-lock. J. B. Phillips, Jr. No. 1,331,721; Feb. 24; v. 271; p. 565.
Window-lock. H. Robarts. No. 1,360,800; Nov. 30; v. 280; p. 924.
Window-lock. D. Spivak. No. 1,346,065; July 6; v. 276; p. 146.
Window-lock, Automatic. C. V. Hoover and C. K. Schenck. No. 1,357,636; Nov. 2; v. 280; p. 82.
Window-lock, Automatic. A. Zentarske. No. 1,332,315; Mar. 2; v. 272; p. 26.
Window-lock, Safety. H. Polcek. No. 1,352,624; Sept. 14; v. 278; p. 211.
Window-locking device. J. Chomos. No. 1,352,114; Sept. 7; v. 278; p. 77.
Window-locking device. C. R. Talbert. No. 1,338,339; Apr. 27; v. 273; p. 704.
Window-operating device. C. V. Jones. No. 1,345,010; June 29; v. 275; p. 911.
Window-operating mechanism. N. H. Anderson. No. 1,333,595; Mar. 16; v. 272; p. 381.
Window-operating mechanism. T. F. Lee. No. 1,359,901; Nov. 23; v. 280; p. 679.
Window or door screens, Fly-exit for. J. O. Fjarli. No. 1,334,148; Mar. 16; v. 272; p. 486.
Window-pane fastener. W. Clifton. No. 1,356,855; Oct. 26; v. 279; p. 613.
Window-pane fastening. T. F. Oschale and A. D. Kumpf. No. 1,330,605; Feb. 10; v. 271; p. 266.
Window-platform. D. Newton. No. 1,351,434; Aug. 31; v. 277; p. 878.
Window, Pocket-. E. H. Lunken. No. 1,336,145; Apr. 6; v. 273; p. 84.
Window-polisher. M. L. Henry. No. 1,344,890; June 29; v. 275; p. 889.
Window-rattling stop. A. S. Peterson. No. 1,336,045; Apr. 6; v. 273; p. 65.
Window-regulators. Controlling mechanism for. L. T. Bulley. No. 1,338,485; Apr. 27; v. 273; p. 731.
Window, Reversible. F. Fournier. No. 1,341,366; May 25; v. 274; p. 717.
Window, Reversible. D. Yadgir. No. 1,351,316; Aug. 31; v. 277; p. 854.
Window, Safety teller's. C. Powey. No. 1,335,601; Mar. 30; v. 272; p. 864.
Window-sash. O. C. Schwarz. No. 1,331,726; Feb. 24; v. 271; p. 566.
Window-sash brake. R. T. Axe and E. F. Chaffee. No. 1,349,037; Aug. 10; v. 277; p. 228.
Window-sash brake. E. F. Chaffee. No. 1,352,875; Sept. 14; v. 278; p. 262.
Window-sash, Convertible. J. Wrigley. No. 1,331,837; Feb. 24; v. 271; p. 588.
Window-sash fastener. F. Muennich. No. 1,329,723; Feb. 3; v. 271; p. 70.
Window-sash fastener, Adjustable. F. P. Spangler. No. 1,330,960; Feb. 17; v. 271; p. 403.
Window-sash stop and fastener. E. F. Behrendt. No. 1,333,599; Mar. 16; v. 272; p. 382.
Window-sashes, Locking device for. J. R. Clay. No. 1,362,983; Dec. 21; v. 281; p. 494.
Window-sashes, Operating device for. W. P. Hilley. No. 1,329,178; Jan. 27; v. 270; p. 559.
Window-screen. C. J. Barker. No. 1,351,733; Sept. 7; v. 278; p. 4.
Window-screen. J. Donnelly. No. 1,344,758; June 29; v. 275; p. 864.
Window-screen. M. Forcoz. No. 1,335,573; Mar. 30; v. 272; p. 859.
Window-screen. J. J. Greenwald. No. 1,347,946; July 27; v. 276; p. 695.
Window-screen. G. J. Karro. No. 1,335,583; Mar. 30; v. 272; p. 861.
Window-screen. J. F. McGeorge. No. 1,328,577; Jan. 20; v. 270; p. 417.
Window-screen. D. O'Neill. No. 1,342,298; June 1; v. 275; p. 134.
Window-screen. S. Samplawski. No. 1,340,438; Aug. 10; v. 277; p. 307.
Window-screen. F. J. Schoch. No. 1,340,797; May 18; v. 274; p. 536.
Window-screen, Adjustable. J. A. S. Simone. No. 1,336,101; Apr. 6; v. 273; p. 75.
Window-screen and flytrap, Adjustable. H. E. Johnson. No. 1,334,099; Mar. 16; v. 272; p. 476.
Window, screen, and sash locker. C. Ellis. No. 1,360,628; Nov. 30; v. 280; p. 890.
Window-screen, Automatic. W. Sandberg. No. 1,329,929; Feb. 3; v. 271; p. 109.
Window-screen, Extension. J. H. Kessler. No. 1,352,372; Sept. 7; v. 278; p. 126.
Window-screen, Metal. A. M. Lane. No. 1,350,027; Aug. 17; v. 277; p. 494.
Window-screen, Metallic. E. Luft. No. 1,339,464; May 11; v. 274; p. 227.
Window screen, Roller. N. H. Nelson. No. 1,356,083; Oct. 19; v. 279; p. 414.
Window-seat. D. F. Crowe. No. 1,347,016; July 20; v. 276; p. 454.
Window-seat. A. Riding. No. 1,351,690; Aug. 31; v. 277; p. 928.
Window-seat. P. L. Riley. No. 1,347,122; July 20; v. 276; p. 474.
Window-seat. L. Viezzi. No. 1,353,681; Sept. 21; v. 278; p. 481.
Window-seat, Adjustable and knockdown. E. Anderson. No. 1,328,706; Jan. 20; v. 270; p. 440.
Window-seat, Foldable. J. Morelli. No. 1,347,115; July 20; v. 276; p. 473.
Window, Self-raising. M. L. Jones. No. 1,355,046; Oct. 5; v. 279; p. 119.
Window-shade. C. G. Johnson. No. 1,330,268; Feb. 10; v. 271; p. 204.
Window-shade. J. Schenk. No. 1,343,284; June 15; v. 275; p. 444.
Window-shade. J. A. Tedder. No. 1,362,760; Dec. 21; v. 281; p. 451.
Window-shade appliance. W. H. Linch. No. 1,326,941; Jan. 6; v. 270; p. 11.
Window-shade bracket. P. F. Boland. No. 1,332,794; Mar. 2; v. 272; p. 118.
Window-shade holder. A. E. Nelson and I. Knoch. No. 1,329,992; Feb. 3; v. 271; p. 121.
Window-shade, Ventilating. V. M. Allen. No. 1,329,352; Feb. 3; v. 271; p. 3.
Window-shades, Holding device for. F. G. Emery. No. 1,327,150; Jan. 6; v. 270; p. 51.
Window-silencer. J. J. Szepe. No. 1,329,986; Feb. 3; v. 271; p. 111.
Window stay, Casement-. A. M. Lane. No. 1,357,714; Nov. 2; v. 280; p. 9[illegible].
Window-stop. C. O. Bloomquist. No. 1,336,274; Apr. 6; v. 273; p. 107.
Window-stop and securing means therefor, Removable. E. B. Shand. No. 1,332,007; Feb. 24; v. 271; p. 620.
Window-support. W. A. Henderson. No. 1,338,445; Apr. 27; v. 273; p. 723.
Window, Vehicle-. L. M. Harvey. No. 1,357,167; Oct. 27; v. 279; p. 673.
Window, Ventilating-. C. Poehner. No. 1,344,561; June 22; v. 275; p. 760.
Window-ventilator. J. Dixon. No. 1,350,792; Aug. 24; v. 277; p. 690.
Window-ventilator. F. Sceltz. No. 1,353,789; Sept. 21; v. 278; p. 502.
Window-ventilator. E. Vorbroker. No. 1,360,698; Nov. 30; v. 280; p. 904.
Window-ventilator attachment. G. E. Merrill. No. 1,342,222; June 1; v. 275; p. 120.
Window-ventilator, Automatic. V. M. Allen. No. 1,335,929; Apr. 6; v. 273; p. 42.
Window-washers, Platform for. P. Reinwald. No. 1,361,184; Dec. 7; v. 281; p. 40.
Window-washing machine. P. J. Palutskas. No. 1,354,127; Sept. 28; v. 278; p. 614.
Window wicket or closure. J. Hecht. No. 1,342,673; June 8; v. 275; p. 259.
Window-wiper. P. A. Conti. No. 1,349,118; Aug. 10; v. 277; p. 243.
Window-wiping device. J. B. Johnson. No. 1,362,801; Dec. 21; v. 281; p. 460.
Window-wiping device. G. H. Russell. No. 1,340,794; May 18; v. 274; p. 536.
Windows, Applying hinges to casement-. W. F. Crittall. No. 1,329,827; Feb. 3; v. 271; p. 90.
Windows, Food-safe for. J. Markwick. No. 1,348,027; July 27; v. 276; p. 711.
Windows, Means for automatically closing. L. M. Phelps. No. 1,341,155; May 25; v. 274; p. 676.
Windows, Means for closing and fastening. A. H. Carrier. No. 1,330,237; Feb. 10; v. 271; p. 198.
Windows, Package for disassembled vehicle-curtain. A. E. Johnson. No. 1,344,135; June 22; v. 275; p. 676.
Windows, Protector of celluloid curtain-. J. Robb. No. 1,340,912; May 25; v. 274; p. 629.
Windows, Safety-clip device for. S. T. Mulford. No. 1,359,093; Nov. 16; v. 280; p. 474.
Windows, Safety clothesline attachment for. D. L. Ringelstein. No. 1,334,795; Mar. 23; v. 272; p. 653.
Windows, Safety device for use in cleaning. F. W. Bielitz. No. 1,343,546; June 15; v. 275; p. 495.
Windows, sashes, shutters, Actuating mechanism for. A. D. Kumpf. No. 1,327,776; Apr. 20; v. 273; p. 527.
Windows, Weather-stripping for. M. W. Best. No. 1,347,672; July 27; v. 276; p. 640.
Wing. H. M. Wolfe. No. 1,348,679; Aug. 3; v. 277; p. 107.
Winter road or snow and ice melting machine. A. Wetterwick. No. 1,352,567; Sept. 14; v. 278; p. 200.
Wire and cable clamp. S. C. Swisher. No. 1,361,643; Dec. 7; v. 281; p. 134.
Wire and rod, Means for drawing. M. Howarth. No. 1,355,745; Oct. 12; v. 279; p. 307.

Digitized by Google

Alphabetical list of inventions—Continued.

Wire, Apparatus for drawing and straightening. C. O. Johnson. No. 1,338,453; Apr. 27; v. 273; p. 724.
Wire, Apparatus for handling fence-. W. H. Conaway. No. 1,327,024; Jan. 6; v. 270; p. 28.
Wire, Apparatus for hardening and tempering. C. O Johnson; No. 1,362,321; Dec. 14; v. 281; p. 314.
Wire, Apparatus for tempering. H. Alexander, W. T. Vint, and A. Imbery. No. 1,355,521; Oct. 12; v. 279; p. 264.
Wire-blank-cutting apparatus, Automatic. J. Becker. No. 1,336,605; Apr. 13; v. 273; p. 230.
Wire clamp and stretcher. W. H. Keel. No. 1,334,865: Mar. 23; v. 272; p. 667.
Wire-clamp-fastening means. C. H. Werner. No. 1,347,196; July 20; v. 276; p. 489.
Wire clamp, Trolley-. G. A. Mead. No. 1,354,503; Oct. 5; v. 279; p. 11.
Wire cloth, Making canvas-. A. Dreyling and W. C. Locke. No. 1,337,053; Apr. 13; v. 273; p. 317.
Wire-coating apparatus. W. H. Riechers. No. 1,333,132; Mar. 9; v. 272; p. 284.
Wire-coating machine. C. J. Perry. No. 1,357,470; Nov. 2; v. 280; p. 51.
Wire-coiling machine. F. L. Andren. No. 1,340,516; May 18; v. 274; p. 488.
Wire-coiling machine. A. G. Sailer. No. 1,340,296; May 18; v. 274; p. 441.
Wire-conduits, End closure for. H. M. Temple and P. Kearney. No. 1,341,398; May 25; v. 274; p. 723.
Wire-connector. C. P. McDonald. No. 1,357,332; Nov. 2; v. 280; p. 26.
Wire-cutter. J. G. Carew-Gibson. No. 1,360,620; Nov. 30; v. 280; p. 889.
Wire-cutting projectile. J. and C. Witkowski. No. 1,330,291; Feb. 10; v. 271; p. 208.
Wire-drawing machine. W. D. Pierson. No. 1,354,336; Sept. 28; v. 278; p. 656.
Wire-drawing machine. D. C. Sullivan, G. L. Hawkins, and W. J. MacMillan. No. 1,344,568; June 22; v. 275; p. 761.
Wire-drawing machinery. F. A. Keyes. No. 1,341,986; June 1; v. 275; p. 73.
Wire-drawing mechanism. J. Cetnarowski. No. 1,357,548; Nov. 2; v. 280; p. 64.
Wire, Electrical-resistance. A. H. Johnson. No. 1,344,406; June 22; v. 275; p. 729.
Wire fabric. J. S. Barnes. No. 1,339,541; May 11; v. 274; p. 242.
Wire fabric. W. Lippert. No. 1,329,782; Feb. 3; v. 271; p. 81.
Wire fabric. W. J. Pine. No. 1,336,154; Apr. 6; v. 273; p. 85.
Wire fabric. H. M. Young and J. P. Regan. No. 1,361,951; Dec. 14; v. 281; p. 241.
Wire fabric, Composition for closing the meshes of. V. J. Hansen. No. 1,354,551; Oct. 5; v. 279; p. 21.
Wire fabric, Device for weaving. J. S. Barnes. No. 1,358,052; Nov. 9; v. 280; p. 224.
Wire-fabric machine. H. W. Bloemker. No. 1,337,504; Apr. 20; v. 273; p. 476.
Wire-fabric machine. A. L. Kitselman. No. 1,353,846; Sept. 21; v. 278; p. 413.
Wire-fabric machine. P. A. and W. V. Reid and J. Kelley. No. 1,344,595; June 22; v. 275; p. 767.
Wire fabric, Making. H. E. Brown. No. 1,359,667; Nov. 23; v. 280; p. 632.
Wire fastener, Fence-. W. P. Robertson. No. 1,328,693; Jan. 20; v. 270; p. 438.
Wire-fastening means. T. D. Sexton. No. 1,363,018; Dec. 21; v. 281; p. 501.
Wire fence. R. Knaur. No. 1,329,189; Jan. 27; v. 270; p. 561.
Wire-fence anchoring and supporting stake. B. L. Wessels. No. 1,345,650; July 6; v. 276; p. 62.
Wire-fence attachment. L. C. Carroll. No. 1,332,603; Mar. 2; v. 272; p. 82.
Wire-fence clamp. J. B. Woodson. No. 1,341,698; June 1; v. 275; p. 17.
Wire-fence shield. M. L. Davis. No. 1,336,205; Apr. 6; v. 273; p. 95.
Wire fitting, Guy-. J. A. Roché. No. 1,329,478; Feb. 3; v. 271; p. 26.
Wire for making chains and other articles of jewelry. R. Trunk. No. 1,336,449; Apr. 13; v. 273; p. 200.
Wire-forming machine. H. E. Werner and J. H. Mitchell. No. 1,333,049; Mar. 9; v. 272; p. 218.
Wire-hanger. A. B. Clark. No. 1,334,228; Mar. 16; v. 272; p. 499.
Wire-hanger. N. E. Sherwood. No. 1,331,680; Feb. 24; v. 271; p. 557.
Wire hanger and fencepost, Fence-. J. G. Dammann. No. 1,360,375; Nov. 30; v. 280; p. 839.
Wire-imbedding device. H. S. Vogel. No. 1,359,639; Nov. 23; v. 280; p. 627.
Wire, Insulating. J. J. Reinhold. No. 1,329,630; Feb. 3; v. 271; p. 53.
Wire, Leading-in. H. Boving. No. 1,357,216; Nov. 2; v. 280; p. 3.
Wire, Leading-in. W. G. Houskeeper. No. 1,357,498; Nov. 2; v. 280; p. 56.
Wire-line clamp. P. M. Rea. No. 1,339,419; May 11; v. 274; p. 218.
Wire-line clamps, Liner for. P. M. Rea. No. 1,339,420; May 11; v. 274; p. 218.
Wire-line-drilling clamp. G. F. Bell. No. 1,344,476; June 22; v. 275; p. 743.
Wire-line spooler. R. B. Robison. No. 1,348,448; Aug. 3; v. 277; p. 62.
Wire, Machine for crimping. A. H. Johnson. No. 1,345,445; July 6; v. 276; p. 23.
Wire, Machine for making fabricated. A. A. Griner. No. 1,327,467; Jan. 6; v. 270; p. 109.
Wire, Method and machine for straightening metal. C. G. Söderland. No. 1,326,981; Jan. 6; v. 270; p. 20.
Wire, Method of and means for tying. E. Embrey. No. 1,331,560; Feb. 24; v. 271; p. 534.
Wire-mill. T. Fullbright. No. 1,350,307; Aug. 24; v. 277; p. 594.
Wire-protector. E. H. Wilson. No. 1,361,211; Dec. 7; v. 281; p. 45.
Wire-puller, Pneumatic-core. B. S. Aikman. No. 1,343,701; June 15; v. 275; p. 526.
Wire-reel. G. Henggi. No. 1,354,555; Oct. 5; v. 279; p. 22.
Wire, Reel for holding barbed or other. T. L. Thompson. No. 1,343,067; June 8; v. 275; p. 338.
Wire-reinforced wrapping. M. Brown. No. 1,358,283; Nov. 9; v. 280; p. 269.
Wire retriever, Magnet-. H. C. Robinson. No. 1,360,686; Nov. 30; v. 280; p. 901.
Wire-rope carriage. D. Cook. No. 1,343,434; June 15; v. 275; p. 473.
Wire-rope clamp. C. A. Wolfe. No. 1,338,062; Apr. 27; v. 273; p. 651.
Wire-rope-guy securing and releasing means. W. Goetz. No. 1,359,051; Nov. 16; v. 280; p. 467.
Wire-screen holding and dispensing receptacle. T. E. Bernard. No. 1,352,016; Sept. 14; v. 278; p. 290.
Wire-splice. T. Midgley. No. 1,329,792; Feb. 3; v. 271; p. 83.
Wire splice, Feeder-. N. K. Bowman. No. 1,351,366; Aug. 31; v. 277; p. 865.
Wire-splicer. L. M. Hellyer. No. 1,357,454; Nov. 2; v. 280; p. 48.
Wire-spoke connection. J. H. Graham. No. 1,338,019; Mar. 9; v. 272; p. 212.
Wire-spoke nipples, Forming. H. A. House, Jr. No. 1,353,395; Sept. 21; v. 278; p. 423.
Wire, Staple-. J. B. Hadaway. No. 1,357,319; Nov. 2; v. 280; p. 23.
Wire-stitcher. H. Weber and G. L. Richardson. No. 1,357,752; Nov. 2; v. 280; p. 105.
Wire-straightener. T. E. Vik. No. 1,335,625; Mar. 30; v. 272; p. 869.
Wire-strainer. T. C. Fowler. No. 1,362,688; Dec. 21; v. 281; p. 437.
Wire-stretcher. A. Andrews. No. 1,357,435; Nov. 2; v. 280; p. 44.
Wire-stretcher. J. H. Best. No. 1,345,310; June 29; v. 275; p. 969.
Wire-stretcher. D. I. Clarke. No. 1,331,321; Feb. 17; v. 271; p. 469.
Wire-stretcher. D. Clyneke. No. 1,334,990; Mar. 30; v. 272; p. 751.
Wire-stretcher. G. R. Farris. No. 1,342,625; June 8; v. 275; p. 250.
Wire-stretcher. A. Hansen. No. 1,353,835; Sept. 28; v. 278; p. 555.
Wire-stretcher. A. W. Lord. No. 1,354,203; Sept. 28; v. 278; p. 629.
Wire-stretcher. H. W. Mallett. No. 1,333,865; Mar. 16; v. 272; p. 432.
Wire-stretcher. W. C. Mitchell. No. 1,339,407; May 11; v. 274; p. 216.
Wire-stretcher. B. Nortwed. No. 1,350,287; Aug. 17; v. 277; p. 544.
Wire-stretcher. S. C. Reppe. No. 1,337,159; Apr. 13; v. 273; p. 336.
Wire-stretcher. M. Severson. No. 1,328,599; Jan. 20; v. 270; p. 421.
Wire-stretcher. C. S. Shippen. No. 1,349,108; Aug. 10; v. 277; p. 241.
Wire-stretcher. T. E. Singleton. No. 1,345,265; June 29; v. 275; p. 960.
Wire-stretcher. W. B. Stephens. No. 1,353,083; Sept. 14; v. 278; p. 303.
Wire-stretcher. B. Webb and W. A. Gardner. No. 1,353,365; Sept. 21; v. 278; p. 417.
Wire-stretcher. C. M. Zartman. No 1,356,683; Oct. 26; v. 279; p. 579.
Wire stretcher and winder. A. C. Lemke and L. L. Almeter. No. 1,337,142; Apr. 13; v. 273; p. 333.
Wire-stretcher attachment. F. W. Schumacher. No. 1,333,097; Mar. 9; v. 272; p. 227.
Wire, Stretching and securing. T. H. Coulter. No. 1,338,425; Apr. 27; v. 273; p. 719.
Wire stretching and splicing and drilling machine, Combined. E. O. Keator. No. 1,332,988; Mar. 9; v. 272; p. 207.
Wire-stripper. C. T. Day. No. 1,349,563; Aug. 17; v. 277; p. 405.
Wire-support, Compensating. C. C. Blackmore. No. 1,362,221; Dec. 14; v. 281; p. 295.

Digitized by Google

Wire ties, Tool for twisting. H. B. Foulder. No. 1,341,459; May 25; v. 274; p. 736.
Wire-tightening implement. M. Steinbach. No. 1,352,484; Sept. 14; v. 278; p. 184.
Wire-tinning machine. W. F. Hosford. No. 1,346,825; July 20; v. 276; p. 416.
Wire-twister. P. M. Burns. No. 1,334,221; Mar. 16; v. 272; p. 498.
Wire-twisting device. A. A. Gamble. No. 1,341,895; June 1; v. 275; p. 55.
Wire-twisting machine. R. J. Rice. No. 1,336,159; Apr. 6; v. 273; p. 86.
Wire-tying. J. S. McChesney. No. 1,357,883; Nov. 2; v. 280; p. 130.
Wire-tying. J. S. McChesney. No. 1,360,237; Nov. 23; v. 280; p. 744.
Wire-tying appliance. J. S. McChesney. No. 1,360,236; Nov. 23; v. 280; p. 744.
Wire wheel. T. A. Bowers. No. 1,347,837; July 27; v. 276; p. 673.
Wire wheel. T. A. Bowers. No. 1,358,819; Nov. 16; v. 280; p. 423.
Wire wheel. H. A. House, Jr. No. 1,353,394; Sept. 21; v. 278; p. 423.
Wire wheel. W. E. Williams. No. 1,338,410; Apr. 27; v. 273; p. 716.
Wire wheel, detachable. J. F. Jinkner. No. 1,340,773; May 18; v. 274; p. 532.
Wire-wheel rim and making. F. R. Klaus. No. 1,336,965; Apr. 13; v. 273; p. 299.
Wire-winding device. J. C. Layman. No. 1,340,064; May 11; v. 274; p. 340.
Wire-winding machine, Stopping mechanism for. J. Pedery. No. 1,363,051; Dec. 21; v. 281; p. 508.
Wire with fibrous material, Machine for covering. J. Booth. No. 1,348,076; June 8; v. 275; p. 340.
Wire wrapping and winding machine. E. T. Musson. No. 1,336,649; Apr. 13; v. 273; p. 238.
Wires and tubes of two metals, Manufacture of. E. Martin. No. 1,341,812; June 1; v. 275; p. 39.
Wires, Arrangement and connector for the jointing of electrical. J. S. Möllerhoj. No. 1,346,506; July 13; v. 276; p. 294.
Wireless or other telegraph mechanism, String message-holder for. M. M. Wood. No. 1,346,476; July 13; v. 276; p. 288.
Wireless receiving and recording apparatus. W. G. H. Finch. No. 1,331,098; Feb. 17; v. 271; p. 429.
Wireless receiving apparatus. E. J. Berg. No. 1,352,242; Sept. 7; v. 278; p. 102.
Wireless receiving system. L. Espenschied. No. 1,362,612; Dec. 21; v. 281; p. 422.
Wireless synchronizer. E. Bancroft. No. 1,363,032; Dec. 21; v. 281; p. 504.
Wireless systems, Oscillation-generator for. M. Berel and L. Funke. No. 1,333,376; Mar. 9; v. 272; p. 279.
Wireless transmission of speech. E. C. Hanson. No. 1,341,232; May 25; v. 274; p. 691.
Wireless transmission system. C. S. Franklin. No. 1,359,979; Nov. 23; v. 280; p. 695.
Wood-alcohol, Manufacture of. L. F. Hawley. No. 1,363,730; Dec. 28; v. 281; p. 679.
Wood and bending same, Bent ply-. O. H. Basquin. No. 1,346,161; July 13; v. 276; p. 226.
Wood and recovery of organic products therefrom, Treatment of. H. F. Weiss. No. 1,358,129; Nov. 9; v. 280; p. 239.
Wood being distilled, Holder for. A. C. Badger. No. 1,338,667; May 4; v. 274; p. 3.
Wood, Bleaching. E. Bateman. No. 1,329,284; Jan. 27; v. 270; p. 578.
Wood-carving machines, Cutting-tool for. W. C. Stenger. No. 1,330,287; Feb. 10; v. 271; p. 207.
Wood, Coating. M. E. Dunlap. No. 1,329,381; Feb. 3; v. 271; p. 7.
Wood distillation. C. T. Clark. No. 1,337,342; Apr. 20; v. 273; p. 445.
Wood, Fireproofing. H. F. Weiss. No. 1,339,488; May 11; v. 274; p. 232.
Wood, Fireproofing. H. F. Weiss. No. 1,346,287; July 13; v. 276; p. 251.
Wood-handling device. H. M. Strawn. No. 1,343,288; June 15; v. 275; p. 445.
Wood impermeable and recovering liquids contained therein, Rendering. C. Roy. No. 1,356,015; Oct. 19; v. 279; p. 400.
Wood laminæ, Manufacture of hollow articles from. W. and W. L. Prior and J. S. Gibson. No. 1,355,778; Oct. 12; v. 279; p. 313.
Wood, Machine for graining. J. A. Bjorn. No. 1,350,918; Aug. 24; v. 277; p. 713.
Wood, Method for use in baling and transporting cord-. L. D. Lewis. No. 1,333,180; Mar. 9; v. 272; p. 242.
Wood, Ornamenting. H. E. De Vries. No. 1,339,259; May 4; v. 274; p. 112.
Wood, Preserving. M. Ruping. No. 1,345,253; June 29; v. 275; p. 258.
Wood-pulp. Grinder for the production of. E. Hutchins. No. 1,333,659; Mar. 16; v. 272; p. 394.
Wood-pulp. Grinder for the production of. E. Hutchins. No. 1,333,660; Mar. 16; v. 272; p. 394.
Wood, Recovery of organic products from. H. F. Weiss. No. 1,339,489; May 11; v. 274; p. 232.
Wood-refuse burner. J. P. Walsh. No. 1,339,729; May 11; v. 274; p. 278.
Wood-rod elevator. G. F. Davis. No. 1,347,535; July 27; v. 276; p. 613.
Wood sanding or polishing machine. J. M. Nash. No. 1,343,981; June 22; v. 275; p. 646.
Wood, Supress composite. F. K. Fish, Jr. No. 1,328,656; Jan. 20; v. 270; p. 431.
Wood-shaping machine. G. W. Duvall and N. H. Beebe. No. 1,331,250; Feb. 17; v. 271; p. 456.
Wood, Sorting device for sawn. G. E. Johanson. No. 1,349,836; Aug. 17; v. 277; p. 457.
Wood-splitting machine. H. M. Young. No. 1,328,471; Jan. 20; v. 270; p. 396.
Wood-splitting means. O. Staub. No. 1,350,413; Oct. 19; v. 279; p. 479.
Wood, Sterilized. F. K. Fish, Jr. No. 1,328,506; Jan. 20; v. 270; p. 404.
Wood strips, Machine for operating on. G. O. P. Kunicke. No. 1,355,149; Oct. 12; v. 279; p. 308.
Wood, Treating and drying. F. K. Fish, Jr. No. 1,328,657; Jan. 20; v. 270; p. 431.
Wood-trimmer. W. E. Bauer. No. 1,334,070; Mar. 16; v. 272; p. 471.
Wood-turning machine. J. Hersog. No. 1,343,319; June 15; v. 275; p. 450.
Woods, Composition for hardening and preserving impregnable soft. A. Lambert. No. 1,346,830; July 20; v. 276; p. 417.
Wooden keppet. W. H. Bowker. No. 1,351,829; Sept. 7; v. 278; p. 23.
Wooden materials and articles generally, Increasing the strength and eliminating the hygroscopicity of. M. Arosio. No. 1,356,847; Oct. 26; v. 279; p. 611.
Woodlike article of manufacture and making same. T. B. Mohler and O. Ludekens. No. 1,357,647; Nov. 2; v. 280; p. 84.
Woodworking-machine. L. A. Bartholomew and W. H. Bird. No. 1,335,547; Mar. 30; v. 272; p. 854.
Woodworking-machine. R. D. Emery. No. 1,337,695; Apr. 20; v. 273; p. 512.
Woodworking-machine. J. W. Gray. No. 1,358,148; Nov. 9; v. 280; p. 243.
Woodworking-machine. W. R. Hewitt. No. 1,363,593; Dec. 28; v. 281; p. 653.
Woodworking-machine. J. F. Sheppard, 2d, and W. D. Fletcher. No. 1,350,341; Aug. 24; v. 277; p. 601.
Woodworking-machine. S. Vincent. No. 1,361,295; Dec. 7; v. 281; p. 62.
Woodworking-machines, Gage attachment for. H. L. Hurff. No. 1,342,218; June 1; v. 275; p. 119.
Woodworking-machines, Rotary cutter for. A. D. Allen. No. 1,355,024; Oct. 5; v. 279; p. 114.
Woodworking-machines, Stock-feeder for. C. J. Marshall. No. 1,355,491; Oct. 12; v. 279; p. 259.
Woodworking sticker or molder-head. J. Shuff. No. 1,353,616; Sept. 21; v. 278; p. 468.
Wool-cards, Bur-conveyer attachment for. C. E. Jewett. No. 1,351,653; Aug. 31; v. 277; p. 921.
Wool-scouring apparatus. J. H. Tillinghast. No. 1,350,769; Nov. 23; v. 280; p. 653.
Work-arbor support. H. J. and F. R. Eberhardt. No. 1,357,696; Nov. 2; v. 280; p. 93.
Work-clamp. V. P. Alexander. No. 1,351,148; Aug. 31; v. 277; p. 820.
Work-handling mechanism. W. Arter. No. 1,357,924; Nov. 2; v. 280; p. 138.
Work-holder. R. Becker. No. 1,350,290; Aug. 24; v. 277; p. 591.
Work-holder. F. B. Glover. No. 1,350,097; Aug. 17; v. 277; p. 507.
Work-holder. C. Hoddle. No. 1,336,229; Apr. 6; v. 273; p. 99.
Work-holder. F. J. Schumann. No. 1,360,449; Nov. 30; v. 280; p. 855.
Work-holder. J. Skrzycki. No. 1,356,889; Oct. 26; v. 279; p. 619.
Work-holder. P. B. Wallace and F. H. Fox. No. 1,326,999; Jan. 6; v. 270; p. 23.
Work-holder, Universal. C. Jesnig. No. 1,341,646; June 1; v. 275; p. 6.
Work-holding clamp. H. I. Lavers. No. 1,353,353; Sept. 21; v. 278; p. 415.
Work-holding device. A. O. Mathison. No. 1,346,504; July 13; v. 276; p. 294.
Work-holding device. A. R. J. Wilkinson. No. 1,337,677; Apr. 20; v. 273; p. 508.
Work-holding stand. R. C. Lee. No. 1,341,809; June 1; v. 275; p. 39.
Work-positioning means for upper-forming machines. G. J. Gorsuch. No. 1,349,669; Aug. 17; v. 277; p. 426.
Work-producers operating in parallel, Apparatus for controlling the operation of. F. R. C. Boyd. No. 1,355,447; Oct. 12; v. 279; p. 250.
Wrench. J. B. Newlon and C. Backinger. No. 1,351,583; Aug. 31; v. 277; p. 907.
Wrench. A. Nikander. No. 1,340,287; May 18; v. 274; p. 439.

Digitized by Google

Wrench. S. J. Nordstrom. No. 1,360,670; Nov. 30; v. 280; p. 898.
Wrench. J. E. Norgord. No. 1,332,140; Feb. 24; v. 271; p. 644.
Wrench. H. G. Norwood. No. 1,335,293; Mar. 30; v. 272; p. 807.
Wrench. H. G. Norwood. No. 1,363,343; Dec. 28; v. 281; p. 605.
Wrench. D. O'Connor. No. 1,360,672; Nov. 30; v. 280; p. 898.
Wrench. H. L. Osment. No. 1,334,392; Mar. 23; v. 272; p. 577.
Wrench. B. H. Parker. No. 1,358,241; Nov. 9; v. 280; p. 261.
Wrench. P. Pasquariello. No. 1,332,470; Mar. 2; v. 272; p. 56.
Work-stand. G. A. Lyon. No. 1,363,478; Dec. 28; v. 281; p. 630.
Work-stand. S. W. Yeats. No. 1,327,581; Jan. 6; v. 270; p. 131.
Work-support. E. H. Bastable. No. 1,337,190; Apr. 20, v. 278; p. 416.
Work-support. A. Bates. No. 1,340,143; May 18; v. 274; p. 413.
Work-support. L. A. Casgrain. No. 1,344,290; June 22; v. 275; p. 706.
Work-support. C. A. Jakobb. No. 1,362,319; Dec. 14; v. 281; p. 314.
Work-support. E. A. Jerram and J. Gouldbourn. No. 1,359,507; Nov. 23; v. 280; p. 601.
Work-support. W. T. B. Roberts. No. 1,330,902; Feb. 17; v. 271; p. 391.
Work-support-controlling mechanism. G. Goddu. No. 1,356,523; Oct. 26; v. 279; p. 547.
Work supporting and feeding mechanism. W. E. Nickerson. No. 1,333,589; Mar. 9; v. 272; p. 320.
Work-supporting table. G. H. Faichney. No. 1,343,553; June 15; v. 275; p. 497.
Work-table, Bookkeeper's. B. P. Beeson. No. 1,349,710; Aug. 17; v. 277; p. 434.
Work threading or cutting units, Power means for. W. W. Vosper. No. 1,344,280; June 22; v. 275; p. 704.
Workbench, crane, and engine-stand combined. J. M. Mattis. No. 1,337,847; Apr. 20; v. 278; p. 541.
Workbench, Watchmaker's and jeweler's. S. K. Ouzoun-Boghossian. No. 1,328,891; Jan. 27; v. 270; p. 505.
Worm-drive. G. Dorfel. No. 1,336,286; Apr. 6; v. 273; p. 110.
Worm-press. S. V. Burrows. No. 1,344,790; June 29; v. 275; p. 870.
Worm-wheel cutter. A. E. Parnall. No. 1,343,982; June 22; v. 275; p. 646.
Woven carrier. H. C. Brothers. No. 1,344,377; June 22; v. 275; p. 724.
Woven carrier. V. H. Jennings. No. 1,352,453; Sept. 14; v. 278; p. 177.
Woven carrier. G. W. Spalding. No. 1,338,794; May 4; v. 274; p. 27.
Woven carrier. C. I. Sullivan. No. 1,338,797; May 4; v. 273; p. 28;
Woven cloth. D. Aruga. No. 1,358,607; Nov. 9; v. 280; p. 335.
Woven fabrics, Apparatus for use in connection with the finishing or treating of. P. K. Whitehead and J. Rothwell. No. 1,353,879; Sept. 28; v. 278; p. 563.
Woven pile fabric. F. Ott. No. 1,327,683; Jan. 13; v. 270; p. 211.
Woven pile fabric. F. Ott. No. 1,327,684; Jan. 13; v. 270; p. 212.
Woven pocketed carrier. V. H. Jennings. No. 1,352,133; Sept. 7; v. 278; p. 81.
Woven pocketed carrier. G. W. Spalding. No. 1,338,795; May 4; v. 274; p. 27.
Wrapper. R. H. Mester. No. 1,329,056; Jan. 27; v. 270; p. 586.
Wrapper-applying mechanism. J. B. Harriss. No. 1,350,608; Aug. 24; v. 277; p. 654.
Wrapper, Article-. J. R. Baker. No. 1,355,804; Oct. 19; v. 279; p. 359.
Wrapping, cartoning, and packing machine. T. E. Heeter. No. 1,336,838; Apr. 13; v. 273; p. 275.
Wrapper-pasting device. J. J. Sleeper and W. Mills. No. 1,347,182; July 20; v. 276; p. 486.
Wrapping folding boxes, Form for. H. H. Wagner. No. 1,363,025; Dec. 21; v. 281; p. 503.
Wrapping folding pasteboard boxes. H. H. Wagner. No. 1,363,024; Dec. 21; v. 281; p. 502.
Wrapping-machine. E. D. Anderson. No. 1,336,549; Apr. 13; v. 273; p. 219.
Wrapping-machine. H. Y. Armstrong. No. 1,341,408; May 25; v. 274; p. 725.
Wrapping-machine. H. R. Bevier. No. 1,329,069; Jan. 27; v. 270; p. 538.
Wrapping-machine. G. I. Hohl. No. 1,362,311; Dec. 14; v. 281; p. 313.
Wrapping-machine. E. M. Lambert. No. 1,363,422; Dec 28; v. 281; p. 619.
Wrapping-machine. C. J. Lietz. No. 1,359,181; Nov. 16; v. 280; p. 491.
Wrapping-machine. C. E. Miller. No. 1,359,477; Nov. 16; v. 280; p. 550.
Wrapping-machine. W. B. Munn. No. 1,340,665; May 18; v. 274; p. 512.
Wrapping-machine. E. L. Smith. No. 1,330,354; Feb. 10; v. 271; p. 220.
Wrapping-machine. F. A. Sutherland. No. 1,351,809; Sept. 7; v. 278; p. 19.
Wrapping-machines, Paper-feeding device for. R. Leumann. No. 1,341,184; May 25; v. 274; p. 682.
Wrapping material. J. J. White. No. 1,341,955; June 1; v. 275; p. 67.
Wrapping mechanism, Candy-. M. B. Ferguson and E. Haas. No. 1,329,236; Jan. 27; v. 270; p. 569.
Wreaths, Automatic machine for making frames for. No. 1,351,009; Aug. 24; v. 277; p. 730.
Wreck-salvaging apparatus. W. M. Neeper. No. 1,349,578; Aug. 17; v. 277; p. 408.
Wrench: *See*—

Adjustable wrench.	Pipe-wrench.
Alligator-wrench.	Pipe and nut wrench.
Cap-wrench.	Pipe-flange wrench.
Chain-driven wrench.	Power-wrench.
Combination-wrench.	Ratchet-wrench.
Double-acting power-wrench.	Ratchet socket-wrench.
Drill-wrench.	Screw-wrench.
Extension-wrench.	Self-adjustable wrench.
Horseshoe-calk wrench.	Self-adjusting wrench.
Jar-cap wrench.	Socket-wrench.
Monkey-wrench.	Spinner-wrench.
Nut and pipe wrench.	Turnbuckle-wrench.
	Vehicle-hub wrench.

Wrench. A. B. Apgar. No. 1,341,532; May 25; v. 274; p. 749.
Wrench. C. C. Barnes. No. 1,344,573; June 22; v. 275; p. 768.
Wrench. A. H. Bennell. No. 1,351,276; Aug. 31; v. 277; p. 846.
Wrench. L. Benoit. No. 1,355,883; Oct. 19; v. 279; p. 375.
Wrench. L. Benoit and P. F. King. No. 1,347,491; July 27; v. 276; p. 604.
Wrench. L. Berk. No. 1,333,532; Mar. 9; v. 272; p. 308.
Wrench. E. Blum. No. 1,338,278; Apr. 27; v. 273; p. 692.
Wrench. J. Bresnahan and A. Davis. No. 1,355,307; Oct. 12; v. 279; p. 223.
Wrench. J. H. A. Carr. No. 1,360,176; Nov. 23; v. 280; p. 733.
Wrench. J. H. A. Carr. No. 1,362,845; Dec. 21; v. 281; p. 468.
Wrench. H. M. Cheek. No. 1,355,733; Oct. 12; v. 279; p. 305.
Wrench. R. J. Colson. No. 1,329,161; Jan. 27; v. 270; p. 557.
Wrench. M. Cook. No. 1,361,518; Dec. 7; v. 281; p. 109.
Wrench. L. A. Crombie. No. 1,327,524; Jan. 6; v. 270; p. 120.
Wrench. G. Cross. No. 1,331,956; Feb. 24; v. 271; p. 610.
Wrench. L. W. Davis and C. C. Stewart. No. 1,332,163; Feb. 24; v. 271; p. 648.
Wrench. H. L. Dickson. No. 1,348,632; Aug. 3; v. 277; p. 97.
Wrench. J. L. Dillon. No. 1,353,567; Sept. 21; v. 278; p. 457.
Wrench. M. G. Dobbins No. 1,362,481; Dec. 14; v. 281, p. 344.
Wrench. J. J. Donahue. No. 1,332,436; Mar. 2; v. 272; p. 51.
Wrench. L. Doonar. No. 1,344,265; June 22; v. 275; p. 701.
Wrench. C. D. Doughty. No. 1,355,455; Oct. 12; v. 279; p. 251.
Wrench. G. F. Edgecomb. No. 1,355,546; Oct. 12; v. 279; p. 269.
Wrench. C. Evits and C. Benner. No. 1,349,564; Aug. 17; v. 277; p. 405.
Wrench. J. B. Fleenor. No. 1,361,237; Dec. 7; v. 281; p. 51.
Wrench. C. F. Fletcher. No. 1,332,548; Mar. 2; v. 272; p. 72.
Wrench. J. H. Fones. No. 1,362,687; Dec. 21; v. 281; p. 437.
Wrench. D. Fornirasco. No. 1,337,550; Apr. 20; v. 273; p. 484.
Wrench. G. Forton. No. 1,347,691; July 27; v. 276; p. 644.
Wrench. A. T. Fowles. No. 1,360,016; Nov. 30; v. 280; p. 945.
Wrench. J. G. Furlan. No. 1,362,413; Dec. 14; v. 281, p. 331.
Wrench. F. A. Gatewood. No. 1,327,991; Jan. 13; v. 270; p. 269.
Wrench. J. Gell. No. 1,341,712; June 1; v. 275; p. 19.
Wrench. H. J. Hahn. No. 1,361,050; Dec. 7; v. 281; p. 14.
Wrench. J. Halbritter. No. 1,358,078; Nov. 9; v. 280; p. 230.
Wrench. E. H. Hart. No. 1,354,552; Oct. 5; v. 279; p. 21.
Wrench. J. T. Haslett. No. 1,345,850; July 6; v. 276; p. 102.
Wrench. O. H. Henry. No. 1,333,174; Mar. 9; v. 272; p. 241.
Wrench, D. Herlihy and M. H. Fisher. No. 1,349,762; Aug. 17; v. 277; p. 444.

Digitized by Google

Wrench. W. A. Humphrey. No. 1,362,867; Dec. 21; v. 281; p. 472.
Wrench. R. E. Jacoby. No. 1,347,780; July 27; v. 276; p. 663.
Wrench. C. M. Jones. No. 1,348,143; July 27; v. 276; p. 734.
Wrench. F. W. Jones. No. 1,335,688; Mar. 30; v. 272; p. 881.
Wrench. O. R. Jones. No. 1,352,186; Sept. 7; v. 278, p. 82.
Wrench. M. Katzmarek. No. 1,350,315; Aug. 24; v. 277; p. 596.
Wrench. C. L. Kelly. No. 1,351,519; Aug. 31; v. 277; p. 894.
Wrench. P. F. King. No. 1,354,494; Oct. 5; v. 279; p. 9.
Wrench. O. R. Kirkpatrick. No. 1,356,923; Oct. 26; v. 279; p. 626.
Wrench. W. A. Kirkpatrick. No. 1,344,234; June 22; v. 275; p. 695.
Wrench. J. H. Lagreid and O. Becklin. No. 1,334,156; Mar. 16; v. 272; p. 487.
Wrench. J. H. Lane. No. 1,344,542; June 22; v. 275; p. 757.
Wrench. W. R. Langford. No. 1,334,250; Mar. 16; v. 272; p. 503.
Wrench. A. Lechnyr. No. 1,363,740; Dec. 28; v. 281; p. 681.
Wrench. R. Lee. No. 1,346,716; July 13; v. 276; p. 336.
Wrench. R. Lehnhoff. No. 1,348,366; Aug. 3; v. 277; p. 47.
Wrench. J. E. Lenholt. No. 1,352,461; Sept. 14; v. 278; p. 179.
Wrench. L. D. Lewis. No. 1,363,135; Dec. 21; v. 281; p. 524.
Wrench. V. A. Lillquist. No. 1,352,009; Sept. 7; v. 278; p. 59.
Wrench. I. W. Litchfield. No. 1,345,202; June 29; v. 275; p. 948.
Wrench. W. Loeven. No. 1,338,313; Apr. 27; v. 273; p. 698.
Wrench. J. H. Lynds. No. 1,359,403; Nov. 16; v. 280; p. 535.
Wrench. A. McDowell. No. 1,342,856; June 8; v. 275; p. 297.
Wrench. A. Magnan. No. 1,348,882; Aug. 3; v. 277; p. 134.
Wrench. F. M. Murray. No. 1,342,643; June 8; v. 275; p. 253.
Wrench. R. W. Payne. No. 1,349,691; Aug. 17; v. 277; p. 430.
Wrench. L. Renftle. No. 1,335,028; Mar. 30; v. 272; p. 758.
Wrench. A. P. Rinehart. No. 1,334,636; Mar. 23; v. 272; p. 623.
Wrench. S. M. Robertson and F. C. Dyer. No. 1,352,729; Sept. 14; v. 278; p. 238.
Wrench. J. Robus and C. D. Compton. No. 1,334,261; Mar. 16; v. 272; p. 506.
Wrench. C. Roome and W. H. Haas. No. 1,335,080; Mar. 30; v. 272; p. 758.
Wrench. S. C. Rosenberg. No. 1,346,061; July 6; v. 276; p. 145.
Wrench. F. E. Sayres. No. 1,350,671; Aug. 24; v. 277; p. 666.
Wrench. G. F. Schlote. No. 1,354,782; Oct. 5; v. 279; p. 67.
Wrench. E. P. Schwarz. No. 1,356,563; Oct. 26; v. 279; p. 555.
Wrench. G. R. Slagle, A. N. Garner, and W. R. Rushin. No. 1,356,565; Oct. 26; v. 279; p. 555.
Wrench. W. H. Spanier. No. 1,349,631; Aug. 17; v. 277; p. 418.
Wrench. S. Stepanian. No. 1,336,794; Apr. 13; v. 273; p. 267.
Wrench. W. M. Stovall. No. 1,361,923; Dec. 14; v. 281; p. 235.
Wrench. W. L. Stover. No. 1,337,102; Apr. 13; v. 273; p. 325.
Wrench. C. B. Strang. No. 1,360,051; Nov. 23; v. 280; p. 708.
Wrench. V. Tarble. No. 1,333,002; Mar. 9; v. 272; p. 210.
Wringer. W. H. Voss. No. 1,344,835; June 29; v. 275; p. 879.
Wrench. P. York. No. 1,361,130; Dec. 7; v. 281; p. 30.
Wrench. P. Wareham and J. G. McDowell. No. 1,330,666; Feb. 10; v. 271; p. 278.
Wrench. H. W. Watson. No. 1,330,151; Feb. 10; v. 271; p. 182.
Wrench. J. H. Williams. No. 1,337,678; Apr. 20; v. 273; p. 508.
Wrench. H. B. Winter. No. 1,341,094; May 25; v. 274; p. 665.
Wrench. W. W. Woodward. No. 1,336,460; Apr. 13; v. 273; p. 202.
Wrench. P. R. Zieche. No. 1,348,342; Aug. 3; v. 277; p. 42.
Wrench attachment. L. A. Banta. No. 1,338,549; Apr. 27; v. 273; p. 742.
Wrench-handle. R. R. Coes. No. 1,357,848; Nov. 2; v. 280; p. 124.
Wrench-handle. J. C. Pettibone. No. 1,359,423; Nov. 16; v. 280; p. 539.
Wrench mechanism. J. G. Moomy; No. 1,345,619; July 6; v. 276; p. 57.
Wrench, Pipe-. F. E. Walden. No. 1,333,517; Mar. 9; v. 272; p. 306.
Wrenches and the like, Adjusting mechanism for. C. H. Simerson. No. 1,363,819; Dec. 28; v. 281; p. 696.
Wrenches, Making. H. T. Roberts. No. 1,340,560; May 18; v. 274; p. 492.
Wringer: *See*—
Centrifugal wringer.
Clothes-wringer.
Laundry-wringer.
Mop-wringer.
Wringer. G. W. Lewis. No. 1,327,766; Jan. 13; v. 270; p. 227.
Wringer. K. M. Longworth. No. 1,358,763; Nov. 16; v. 280; p. 411.
Wringer. D. A. Young. No. 1,329,570; Feb. 3; v. 271; p. 43.
Wringer. D. A. Young. No. 1,330,330; Feb. 17; v. 271; p. 377.
Wringer and washtub, Combined. K. M. Longworth. No. 1,358,762; Nov. 16; v. 280; p. 411.
Wringer attachment. L. F. Doellinger. No. 1,335,957; Apr. 6; v. 273; p. 48.
Wringer-control mechanism. O. B. Woodrow. No. 1,350,692; Aug. 24; v. 277; p. 670.
Wringer mechanism, Removable. G. More. No. 1,328,754; Jan. 20; v. 270; p. 449.
Wringers, Feed mechanism for clothes-. P. H. Schendler. No. 1,355,006; Oct. 5; v. 279; p. 110.
Wringers, Safety-lock for swing-. G. F. Freed and J. R. Spencer. No. 1,346,816; July 20; v. 276; p. 415.
Wrinkle-remover. M. L. Boisvert. No. 1,356,112; Oct. 19; v. 279; p. 420.
Writer's aiding device. A. A. Disbrow. No. 1,353,730; Sept. 21; v. 278; p. 491.
Writer's rest. B. F. Terry. No. 1,361,644; Dec. 7; v. 281; p. 134.
Writing, Device for mechanically aiding the hand in. W. J. Henry. No. 1,336,482; Apr. 13; v. 273; p. 197.
Writing implement. C. J. App. No. 1,352,340; Sept. 7; v. 278; p. 120.
Writing-machine. H. Elmblad. No. 1,352,405; Sept. 7; v. 278; p. 132.
Writing or reading device, Self-luminous. P. M. Willis. No. 1,351,935; Sept. 7; v. 278; p. 45.
Writing-pad. G. R. Clark. No. 1,361,366; Dec. 7; v. 281; p. 77.
Writing-pad. H. C. Simmons. No. 1,345,558; July 6; v. 276; p. 46.
Writing-ranger. G. T. Wride. No. 1,347,729; July 27; v. 276; p. 652.
X-ray and other negatives, Apparatus for the examination of. E. R. Stealy. No. 1,350,042; Aug. 17; v. 277; p. 497.
X-ray apparatus. W. D. Coolidge. No. 1,328,495; Jan. 20; v. 270; p. 402.
X-ray apparatus. J. D. Stirckler. No. 1,333,349; Mar. 9; v. 272; p. 274.
X-ray apparatus. H. F. Waite. No. 1,334,936; Mar. 23; v. 272; p. 682.
X-ray cone. H. P. MacLagan. No. 1,352,198; Sept. 7; v. 278; p. 93.
X-ray system. H. F. Waite. No. 1,343,599; June 15; v. 275; p. 506.
X-ray transformer. W. D. Coolidge. No. 1,337,885; Apr. 20; v. 273; p. 548.
X-ray tube. W. D. Coolidge. No. 1,355,126; Oct. 12; v. 279; p. 187.
X-ray tube. F. J. Farrelly and A. Greiner. No. 1,334,146; Mar. 16; v. 272; p. 485.
X-ray tube. T. B. Rider. No. 1,352,630; Sept. 14; v. 278; p. 213.
X-ray tube. R. H. Small. No. 1,331,967; Feb. 24; v. 271; p. 612.
X-ray tube. E. Wandner. No. 1,359,300; Nov. 16; v. 280; p. 514.
X-ray tube-stand and table. E. E. Greville. No. 1,337,900; Apr. 20; v. 273; p. 552.
X-rays. Method of and apparatus for producing. C. D. Ehret. No. 1,337,349; Apr. 20; v. 273; p. 447.
Yarn and fabric and producing. A. G. Fromuth. No. 1,336,516; Apr. 13; v. 273; p. 213.
Yarn-carrier support. H. D. Colman. No. 1,329,504; Feb. 3; v. 271; p. 31.
Yarn-chain trumpet. A. E. Rhoades. No. 1,338,329; Apr. 27; v. 273; p. 702.
Yarn-changer. W. Larkin. No. 1,359,258; Nov. 16; v. 280; p. 506.
Yarn-cleaner. R. G. Jennings. (Reissue.) No. 14,818; Mar. 16; v. 272; p. 508.
Yarn device and making same, Unitary. R. E. Taylor. No. 1,343,238; June 15; v. 275; p. 436.
Yarn-feeding device. G. W. McKinney. No. 1,360,554; Nov. 30; v. 280; p. 875.
Yarn-holder. A. E. Gaeng. No. 1,353,528; Sept. 21; v. 278; p. 449.
Yarn, Jack-winder for. W. J. Brennan. No. 1,362,470; Dec. 14; v. 281; p. 342.

Digitized by Google

Alphabetical list of inventions—Continued.

Yarn in hank form, Machine for dyeing, washing, scouring, sizing, bleaching, and mercerising. J. S. and S. S. Lord. No. 1,348,724; Aug. 3; v. 277; p. 114.
Yarn in hank form, Machine for treating. J. S. and S. S. Lord. No. 1,340,833; July 20; v. 276; p. 418.
Yarn in the form of hanks, skeins, or the like, Dyeing, washing, and similarly treating. J. Annica. No. 1,337,877; Apr. 20; v. 273; p. 547.
Yarn, Machine for making hair. R. E. Taylor. No. 1,330,455; Feb. 10; v. 271; p. 238.
Yarn-speck remover. W. F. Moon. No. 1,334,669; Mar. 23; v. 272; p. 629.
Yarn-speck remover. W. F. Moon. No. 1,336,148; Apr. 6; v. 273; p. 84.
Yarn tension. J. H. Boyd. No. 1,343,388; June 15; v. 275; p. 464.
Yarn-tension device. F. A. Holt and G. Kershaw. No. 1,353,476; Sept. 21; v. 278; p. 439.
Yarn-tension device. L. T. Houghton. No. 1,344,400; June 22; v. 275; p. 728.
Yarn-tensioning device. T. A. and H. A. Boyd. No. 1,333,059; Mar. 9; v. 272; p. 220.
Yarn-treating mechanism. W. J. Going. No. 1 333,481; Mar. 9; v. 272; p. 299.
Yarn-waxing device. T. Cunningham. No. 1,350,007; Aug. 17; v. 277; p. 490.
Yarn, Weaving fabric from rubberized. C. Zegien. No. 1,360,702; Nov. 30; v. 280; p. 904.
Yarn-windings, particularly of paper yarn, Apparatus for drying. E. Jagenberg. No. 1,330,025; Feb. 3; v. 271; p. 127.
Yellow, Derivatives of pyrazole anthrazone. F. Linger and A. Holl. No. 1,329,435; Feb. 3; v. 271; p. 17.
Yoke. H. J. Lounsbury. No. 1,355,987; Oct. 19; v. 279; p. 394.
Yoke and coupling means, Combined neck-. T. S. Moffett. No. 1,357,889; Nov. 2; v. 280; p. 131.
Yoke, Cattle-. J. Switzyk. No. 1,346,278; July 13; v. 276; p. 250.
Yoke, Coupling. H. L. Spence. No. 1,342,697; June 8; v. 275; p. 265.
Yoke, Draft-gear. H. T. Anderson. No. 1,329,318; Jan. 27; v. 270; p. 584.
Yoke, Draft-gear. C. A. Carscadin. No. 1,350,436; Aug. 24; v. 277; p. 620.
Yoke, Draft-gear. C. J. Nash. No. 1,330,087; Feb. 10; v. 271; p. 170.
Yoke, Draft-rigging. S. B. Hascltine. No. 1,355,968; Oct. 19; v. 279; p. 391.
Yoke, Draw-bar. C. E. Bauer. No. 1,339,940; May 11; v. 274; p. 318.
Yoke, Draw-bar. C. T. Westlake and C. S. Shallenberger. No. 1,357,603; Nov. 2; v. 280; p. 76.
Yoke, Hog-. T. D. Ricks. No. 1,347,352; July 20; v. 276; p. 520.
Yokes, Making draw-bar. C. E. Bauer. No. 1,330,575; Feb. 10; v. 271; p. 261.
Yokes, Manufacture of railway draft-gear. H. T. Anderson. No. 1,328,975; Jan. 27; v. 270; p. 521.
Yoke, Neck-. H. L. Chippa. No. 1,356,966; Oct. 26; v. 279; p. 634.
Yoke or shoulder-weight carrier. R. P. Orr. No. 1,340,076; May 11; v. 274; p. 342.
Yokes, Making draft-gear. A. J. Canfield. No. 1,349,493; Aug. 10; v. 277; p. 318.
Yokes to cart-poles, Device for connecting ox-. R. Ramos and A. de Cardenas. No. 1,344,354; June 22; v. 275; p. 719.
Zinc-bearing ores, Treating. F. K. Cameron, J. A. Cullen, and R. W. Hyde. No. 1,352,899; Sept. 7; v. 278; p. 131.
Zinc by electrolysis, Recovery of. R. H. Stevens. No. 1,347,189; July 20; v. 276; p. 487.
Zinc, Extraction of. E. S. Bergiund. No. 1,331,740; Feb. 24; v. 271; p. 569.
Zinc, copper, and cadmium, Treating residues containing. J. O. Elton and R. B. Caples. No. 1,343,619; June 15; v. 275; p. 510.
Zinc from ores, Extracting. F. Laist and J. O. Elton. No. 1,362,166; Dec. 14; v. 281. p. 283.
Zinc oxid, Treating. F. G. Breyer and E. H. Bunce. No. 1,339,544; May 11; v. 274; p. 242.
Zinc oxid, Treating. F. G. Breyer and E. H. Bunce. No. 1,339,545; May 11; v. 274; p. 242.
Zinc-reduction furnace. J. D. Shipton. No. 1,353,362; Sept. 21; v. 278; p. 417.
Zinc solutions preparatory to the recovery of zinc by electrodeposition, Treatment of. D. Avery and R. T. D. Williams. No. 1,347,200; July 20; v. 276; p. 489.
Zinc solutions, Purification of. S. Field. No. 1,331,384; Feb. 17; v. 271; p. 471.
Zinc solutions, Purification of. S. Field. No. 1,337,058; Apr. 13; v. 273; p. 318.
Zinc solutions, Purification of. H. L. Sulman and S. Field. No. 1,336,386; Apr. 6; v. 273; p. 129.
Zinc solutions, Purification of. H. Sulman and S. Field. No. 1,341,601; May 25; v. 274; p. 762.
Zinc solutions, Treatment of. F. Petersson. No. 1,363,052; Dec. 21; v. 281; p. 508.
Zither, Keyed. G. L. Reynolds. No. 1,341,072; May 25; v. 274; p. 660.
Zithers, Playing attachment for. F. M. Nickerson. No. 1,352,618; Sept. 14; v. 278; p. 210.

ALPHABETICAL LIST OF DESIGNS.

Advertising bond, Mutual. G. Melick. No. 56,527; Nov. 2; v. 280; p. 147.
Aeroplane. G. H. Curtiss. No. 55,504; June 22; v. 275; p. 774.
Aeroplane-coaster. C. H. Duede. No. 56,803; Dec. 28; v. 281; p. 745.
Aeroplane-coaster. E. G. Moore. No. 55,636; July 6; v. 276; p. 165.
Air and water dispenser casing, Combined. A. A. Ewald. No. 55,762; July 13; v. 276; p. 361.
Airship-body. W. W. Lieurance. No. 56,526; Nov. 2; v. 280; p. 147.
Airship-body. C. W. Manzel. No. 54,947; Apr. 20; v. 273; p. 580.
Amalgam carrier and plugger. G. Holtz. No. 56,613; Nov. 16; v. 280; p. 558.
Anchor-rod. A. B. Chance. No. 56,118; Aug. 24; v. 277; p. 734.
Anchor-rod eye. A. B. Chance. No. 56,273; Sept. 14; v. 278; p. 315.
Andiron. M. B. Roller, Nos. 56,531–9; Nov. 2; v. 280; pp. 148–9.
Antiseptic tablet. H. Wipf. No. 55,542; June 22; v. 275; p. 781.
Apron, Child's. E. L. Pattee. No. 54,767; Mar. 23; v. 272; p. 693.
Aquarium-stand. F. S. Crowell. Nos. 55,751–4; July 13; v. 276; p. 359.
Art-panel, banner, or flag, Embroidered. M. J. Gordon. Nos. 54,909–10; Apr. 20; v. 273; p. 573.
Article-holder, Individual. P. F. Denning. No. 55,756; July 13; v. 276; p. 360.
Article of manufacture. H. T. Abolin. No. 55,108; May 11; v. 274; p. 356.
Article of manufacture. H. T. Abolin. No. 55,582; July 6; v. 276; p. 155.
Article of manufacture. M. D. Adler. No. 56,330; Oct. 5; v. 279; p. 133.
Article of manufacture. A. Blum. No. 54,524; Mar. 2; v. 272; p. 135.
Article of manufacture. F. S. Crowell. No. 54,811; Mar. 30; v. 272; p. 888.
Article of manufacture. E. Ericson. No. 54,905; Apr. 20; v. 273; p. 573.
Article of manufacture. G. M. Fauser. No. 54,906; Apr. 20; v. 273; p. 573.
Article of manufacture. A. Flint. Nos. 55,261–3; May 25; v. 274; pp. 774–5.
Article of manufacture. D. C. Frank. Nos. 56,351–2; Oct. 5; v. 279; pp. 136–7.
Article of manufacture. M. A. T. Gillbee. Nos. 56,593–600; Nov. 16; v. 280; pp. 555–7.
Article of manufacture. M. A. T. Gillbee. No. 56,808; Dec. 28; v. 281; p. 746.
Article of manufacture. G. Gould. No. 56,356; Oct. 5; v. 279; p. 137.
Auto-curtain window. R. Haley. No. 55,169; May 18; v. 274; p. 555.
Article of manufacture. E. M. Loftus. No. 54,757; Mar. 23; v. 272; p. 691.
Article of manufacture. H. T. Mendelsohn. Nos. 56,373–4; Oct. 5; v. 279; p. 140.
Article of manufacture. M. Oestreicher. Nos. 54,558–9; Mar. 2; v. 272; pp. 140–1.
Article of manufacture—namely, screen for sound-outlets of graphophones. W. A. Sommerhof. Nos. 54,968–9; Apr. 20; v. 273; p. 583.
Ash-holder. D. Frishman. Nos. 56,590–1; Nov. 16; v. 280; p. 555.
Ash-stand A. Hygonnet. No. 56,724; Dec. 7; v. 281; p. 165
Ash-tray. O. Kvist. No. 56,817; Dec. 28; v. 281; p. 747.
Auto-heater casing, Footrest. G. A. Bartholomew. No. 56,579; Nov. 16; v. 280; p. 553.
Auto signal-light. J. P. Becker. No. 55,739; July 13; v. 276; p. 356.
Automobile. R. Booth. No. 54,830; Apr. 13; v. 273; p. 342.
Automobile. F. E. Bradfield. No. 54,589; Mar. 9; v. 272; p. 324.
Automobile. Harry A. Miller. No. 55,070; May 4; v. 274; p. 146.

Digitized by Google

Automobile. D. H. Montgomery. Nos. 56,019–20; Aug. 10; v. 277; p. 338.
Automobile. C. S. Silver. No. 54,692; Mar. 9; v. 272; p. 341.
Automobile-bodies, Window in the back of. J. Ledwinka. No. 56,366; Oct. 5; v. 279; p. 139.
Automobile-body. E. T. Bassett. No. 56,412; Oct. 26; v. 279; p. 685.
Automobile-body. F. E. Bradfield. No. 54,590; Mar. 9; v. 272; p. 325.
Automobile-body. H. C. Buchwald. No. 56,736; Dec. 14; v. 281; p. 367.
Automobile-body. J. W. Chordas. No. 56,222; Aug. 31; v. 277; p. 937.
Automobile-body. H. E. Cross. No. 55,845; July 20; v. 276; p. 549.
Automobile-body. H. H. Goodall. No. 54,549; Mar. 2; v. 272; p. 139.
Automobile-body. A. J. Granberg. No. 54,615; Mar. 9; v. 272; p. 329.
Automobile-body. R. J. Gruenberg. No. 55,461; June 15; v. 275; p. 568.
Automobile-body. J. H. Kammerer. No. 55,617; July 6; v. 276; p. 161.
Automobile-body. H. J. Lozier. No. 56,289; Sept. 14; v. 278; p. 318.
Automobile-body. F. Richard. No. 55,816; July 13; v. 276; p. 371.
Automobile-body. C. M. Shaw. 55,334; May 25; v. 274; p. 787.
Automobile-body. C. A. and T. C. Timpte. No. 56,244; Aug. 31; v. 277; p. 941.
Automobile-body, Rear-end portion of an. F. E. Bradfield. No. 56,219; Aug. 31; v. 277; p. 937.
Automobile-buffer. T. M. Cox. Nos. 56,224–6; Aug. 31; v. 277; pp. 937–8.
Automobile-bumper. F. R. Eaglesfield. No. 56,055; Aug. 10; v. 277; p. 345.
Automobile-bumper. J. H. Hurlbut. No. 56,235; Aug. 31; v. 277; p. 940.
Automobile-bumper. W. G. Pancoast and W. J. Grotenhuis. No. 55,484; June 15; v. 275; p. 572.
Automobile-bumper. L. Stafford. No. 56,203; Aug. 24; v. 277; p. 749.
Automobile, &c., chassis. W. J. P. Moore. Nos. 54,448–4; Feb. 10; v. 271; p. 312.
Automobile-curtain window. M. G. Roberts. No. 56,382; Oct. 6; v. 279; p. 142.
Automobile direction and stop signal. J. F. Anderson. No. 56,048; Aug. 10; v. 277; p. 344.
Automobile direction-signal. V. R. Will. No. 56,047; Aug. 10; v. 277; p. 343.
Automobile-domelight, &c., Trimming for an. F. E. Greene. No. 56,146; Aug. 24; v. 277; p. 740.
Automobile-door lock, Handle for an. F. E. Greene. Nos. 56,140–1; Aug. 24; v. 277; pp. 738–9.
Automobile-door lock, &c., Handle for an. F. E. Greene. No. 56,145; Aug. 24; v. 277; p. 739.
Automobile-door lock, &c., Trimming-plate for an. F. E. Greene. No. 56,142; Aug. 24; v. 277; p. 739.
Automobile-fender. F. Richard. No. 56,767; Dec. 14; v. 281; p. 373.
Automobile-fender. E. Sandusky. No. 56,770; Dec. 14; v. 281; p. 374.
Automobile-fenders. H. L. Berg. No. 55,237; May 25; v. 274; p. 770.
Automobile-footboard. J. M. White. No. 55,494; June 15; v. 275; p. 574.
Automobile foot-scraper. W. G. Horstman. No. 56,432; Oct. 26; v. 279; p. 688.
Automobile-frame. H. E. Cross. No. 55,454; June 15; v. 275; p. 567.
Automobile-hood. F. E. Bradfield. No. 54,372; Feb. 10; v. 271; p. 300.
Automobile-horn casing. G. R. Marsico. Nos. 55,292–5; May 25; v. 274; p. 780.
Automobile instrument-board. A. Ward, Jr. No. 56,790; Dec. 14; v. 281; p. 377.
Automobile-light, &c., Trimming for an. F. E. Greene. Nos. 56,138–9; Aug. 24; v. 277; p. 738.
Automobile-lock. F. Geilinger. No. 56,135; Aug. 24; v. 277; p. 737.
Automobile-radiator ornament. E. P. Ekman. No. 55,259; May 25; v. 274; p. 774.
Automobile side curtain. R. K. Thomson. Nos. 56,312–13; Sept. 14; v. 278; pp. 321–2.
Automobile signal-light. C. A. Vories. No. 55,833; July 13; v. 276; p. 374.
Automobile splash-board. E. H. Belden. No. 56,094; Aug. 17; v. 277; p. 548.
Automobile-tool. P. L. Hudgins. No. 55,792; July 13; v. 276; p. 367.
Automobile-top. C. A. Folmer. No. 55,855; July 20; v. 276; p. 551.
Automobile-top. H. M. Victor. No. 54,708; Mar. 9; v. 272; p. 343.
Automobile traffic-signal. E. Rapattoni. No. 56,193; Aug. 24; v. 277; p. 748.
Automobile-window regulator, &c., Handle construction for an. F. E. Greene. No. 56,144; Aug. 24; v. 277; p. 739.
Automobile-window regulators, &c., Handle construction for an. F. E. Greene. No. 56,148; Aug. 24; v. 277; p. 740.
Automobiles, Instrument-board for. A. Ward, Jr. No. 56,212; Aug. 24; v. 277; p. 751.
Automobiles, Ornamental figure for radiator-caps of. G. F. Cole. No. 55,981; Aug. 10; v. 277; p. 331.
Automobiles, Radiator-cap ornament for. S. C. Jackson. No. 55,615; July 6; v. 276; p. 161.
Baby-carriage handle-bar. G. E. O'Hearn. No. 54,672; Mar. 9; v. 272; p. 338.
Badge. J. Archer No. 55,736; July 13; v. 276; p. 356.
Badge. J. H. Davidson. No. 56,654; Nov. 30; v. 280; p. 964.
Badge. J. D. Davis. No. 54,726; Mar. 23; v. 272; p. 686.
Badge. G. C. C. Shean. No. 56,477; Oct. 26; v. 279; p. 696.
Badge. D. E. Victor. No. 55,344; May 25; v. 274; p. 788.
Badge, button, emblem, or article of similar nature. M. F. Bradley. No. 56,690; Nov. 30; v. 280; p. 963.
Badge, button, or emblem. C. A. Berkey. No. 56,115; Aug. 24; v. 277; p. 733.
Badge, button, or emblem. A. G. Jones. No. 56,617; Nov. 16; v. 280; p. 559.
Badge, button, or emblem. H. E. Nay. No. 54,761; Mar. 23; v. 272; p. 692.
Badge, button, or similar article. J. Drake. No. 55,252; May 25; v. 274; p. 773.
Badge, emblem, &c. P. J. Hellmich. No. 54,517; Feb. 24; v. 271; p. 653.
Badge, emblem, insignia, or similar article for a Young Men's Christian Association sweater front or for like personal wear. F. H. Cheley. No. 55,936; Aug. 3; v. 277; p. 137.
Badge, emblem, or article of similar nature. E. D. Stackhouse. No. 55,896; July 20; v. 276; p. 558.
Badge, emblem, or similar article. H. E. Alsterlund. Nos. 55,013–4; May 4; v. 274; p. 136.
Badge, emblem, or similar article. H. E. Alsterlund. No. 56,797; Dec. 28; v. 281; p. 744.
Badge, emblem, or similar article. J. A. Braden. Nos. 55,548–51; June 29; v. 275; p. 977.
Badge, emblem, or similar article. D. A. Brown. No. 54,722; Mar. 23; v. 272; p. 685.
Bag-frame member. W. Turton. No. 55,402; June 1; v. 275; p. 166.
Bait, Artificial. H. G. Hamilton. No. 55,462; June 15; v. 275; p. 568.
Bait, Artificial. W. I. Nash. No. 56,707; Nov. 30; v. 280; p. 966.
Ball, Golf-. J. C. Robertson. No. 55,330; May 25; v. 274; p. 786.
Balloon, Advertising and toy. W. M. Madison. No. 56,073; Aug. 10; v. 277; p. 348.
Band or article of similar nature, Wrapping-. H. B. Duane. No. 54,836; Apr. 13; v. 273; p. 343.
Bank. J. Nutry. No. 54,763; Mar. 23; v. 272; p. 692.
Banner. E. M. Martin. No. 54,948; Apr. 20; v. 273; p. 580.
Basket. K. Masuda. No. 56,825; Dec. 28; v. 281; p. 749.
Basket. E. Salazar. No. 56,769; Dec. 14; v. 281; p. 374.
Basket. W. Wegiel. No. 56,245; Aug. 31; v. 277; p. 941.
Basket, Novelty-. T. Kirchen. No. 55,055; May 4; v. 274; p. 143.
Bath-cot, Infant's. M. Takeuchi. No. 56,036; Aug. 10; v. 277; p. 341.
Bathing-cap or similar article. F. W. Dodge. Nos. 54,900–1; Apr. 30; v. 273; p. 572.
Batteries, Clamp terminal-connector for secondary. T. R. Cook. No. 56,739; Dec. 14; v. 281; p. 368.
Batteries, Terminal connector for secondary. T. R. Cook. Nos. 56,649–50; Nov. 23; v. 280; p. 751.
Batteries, Universal clamp terminal-connector for secondary. T. R. Cook. No. 56,740; Dec. 14; v. 281; p. 368.
Batteries, Vent-plug for secondary. T. R. Cook. No. 56,741; Dec. 14; v. 281; p. 368.
Battery, Connector for a secondary. T. R. Cook. No. 56,738; Dec. 14; v. 281; p. 367.
Battery-plate-supporting tray. P. E. Norris. No. 56,676; Nov. 23; v. 280; p. 757.
Battery-steamer. A. J. Wissing. No. 56,397; Oct. 5; v. 279; p. 145.
Battery-terminal. T. R. Cook. Nos. 56,647–8; Nov. 23; v. 280; p. 750.
Bead, Luminous. J. M. Breen. No. 56,493; Nov. 2; v. 280; p. 142.
Bead molding or welt, Single-. G. H. Vanderslice. No. 56,716; Nov. 30; v. 280; p. 968.
Bean-pot and cover. J. Beiswanger. No. 56,336; Oct. 5; v. 279; p. 134.
Bed. L. A. Brown. No. 55,928; Aug. 3; v. 277; p. 136.
Bed. I. H. Isaacs. No. 56,725; Dec. 7; v. 281; p. 165.
Bed-pan, Douche. V. Loewenberg. No. 54,856; Apr. 13; v. 273; p. 347.
Bedstead. B. Lipshits. No. 55,426; June 8; v. 275; p. 367.
Bedstead end. C. A. Stuart. Nos. 56,632–6; Nov. 16; v. 280; p. 562.
Bedstead end. C. A. Stuart. No. 56,714; Nov. 30; v. 280; p. 967.

Digitized by Google

Alphabetical list of designs--Continued.

Bell, Table-. A. S. C. and H. R. P. Forbes. No. 56,280; Sept. 14; v. 278; p. 316.
Belt. V. Guinsburg. No. 56,151; Aug. 24; v. 277; p. 741.
Belt. F. F. Knothe. No. 55,056; May 4; v. 274; p. 143.
Belt and trousers clamp. T. Delikat. No. 55,368; June 1; v. 275; p. 160.
Belt-clasp. W. E. Rounseville. Nos. 55,081–2; May 4; v. 274; p. 148.
Belt-clasp. W. E. Rounsevill. No. 55,197; May 18; v. 274; p. 560.
Belt for personal wear. J. E. Frank. No. 56,353; Oct. 5; v. 279; p. 137.
Belt, Lady's. F. C. Gerbasi. No. 56,355; Oct. 5; v. 279; p. 137.
Belt, Lady's. F. C. Gerbasi. Nos. 56,659–66; Nov. 23; v. 280; pp. 753–4.
Bench-leg. T. M. Lothrop. 54,640; Mar. 9; v. 272; p. 333.
Beverage-dispenser. D. J. Gorman. No. 54,739; Mar. 23; v. 272; p. 688.
Beverage-dispensing apparatus. D. Richardson and C. N. Jacoby. No. 54,363; Feb. 3; v. 271; p. 132.
Beverage-dispensing apparatus, Portable. D. Richardson and C. N. Jacoby. No. 54,453; Feb. 10; v. 271; p. 313.
Beverage-dispensing device. C. M. Earl. No. 55,121; May 11; v. 274; p. 358.
Bezel. A. S. Alexander. No. 54,572; Mar. 9; v. 272; p. 322.
Bezel. A. S. Alexander. No. 55,230; May 25; v. 274; p. 769.
Bezel. J. Wildenberg. No. 55,926; July 20; v. 276; p. 564.
Bicycle-frame. E. J. Lonn. Nos. 55,624–5; July 6; v. 276; p. 163.
Billboard-arch. W. B. Wheeler. 56,044; Aug. 10; v. 277; p. 343.
Block, Building-. A. H. Lehman. No. 54,424; Feb. 10; v. 271; p. 309.
Blouse, Woman's. A. H. Flanders. Nos. 54,397–403; Feb. 10; v. 271; pp. 304–5.
Blouse, Woman's. A. H. Flanders. Nos. 54,497–503; Feb. 17; v. 271; pp. 500–1.
Blouse, Woman's. A. H. Flanders. Nos. 54,538–46; Mar. 2; v. 272; pp. 137–3.
Blouse, Woman's. A. H. Flanders. Nos. 54,729–31; Mar. 23; v. 272; pp. 686–7.
Blouse, Woman's. A. H. Flanders. Nos. 54,837–9; Apr. 13; v. 273; p. 344.
Blouse, Woman's. A. H. Flanders. Nos. 55,372–3; June 1; v. 275; p. 161.
Blouse, Woman's. A. H. Flanders. Nos. 55,990–7; Aug. 10; v. 277; pp. 333–5.
Blouse, Woman's. A. H. Flanders. Nos. 56,056–8; Aug. 10; v. 277; p. 345.
Blouse, Woman's. A. H. Flanders. Nos. 56,805–7; Dec. 28; v. 281; pp. 745–6.
Blower-casing. C. W. Emery. No. 56,419; Oct. 26; v. 279; p. 686.
Bodice. R. Krauziewicz. No. 54,932; Apr. 20; v. 273; p. 577.
Boiler-tube plug. T. H. Devaney. No. 56,554; Nov. 9; v. 280; p. 354.
Bolt. J. F. O'Reilly. No. 56,303; Sept. 14; v. 278; p. 320.
Bolt for window-frames, Head for a. W. W. Sleight. No. 54,964; Apr. 20; v. 273; p. 583.
Book, Coupon-. W. K. Trechsel. No. 56,842; Dec. 28; v. 281; p. 751.
Book-end. A. F. Desmond. No. 56,341; Oct. 5; v. 279; p. 135.
Boot. N. E. Tousley and A. H. Whorf. No. 55,730; July 6; v. 276; p. 180.
Boot and shoe soles, Pad for. J. P. Cochrane. Nos. 54,600–1; Mar. 9; v. 272; p. 326.
Boot, High. F. G. Chamberlin. No. 54,895; Apr. 20; v. 273; p. 571.
Boot protector or stud, Iron. A. Richmond. No. 54,678; Mar. 9; v. 272; p. 339.
Bottle. C. S. W. Barwell. No. 56,733; Dec. 14; v. 281; p. 867.
Bottle. H. B. Christian. No. 54,378; Feb. 10; v. 271; p. 301.
Bottle. J. L. Dunnock. No. 55,988; Aug. 10; v. 277; p. 333.
Bottle. J. Morrison. No. 54,977; Apr. 20; v. 273; p. 585.
Bottle. H. R. Nicholson. 56,301; Sept 14; v. 278; p. 319.
Bottle. C. Rudd. No. 54,684; Mar. 9; v. 272; p. 340.
Bottle. E. Scudder and N. C. Ward. Nos. 55,891–2; July 20; v. 276; pp. 557–8.
Bottle. H. R. Weller. No. 56,110; Aug. 17; v. 277; p. 550.
Bottle-cap. C. Hammer. No. 55,125; May 11; v. 274; p. 359.
Bottle-cap. C. Hammer. No. 55,380; June 1; v. 275; p. 162.
Bottle cap or stopper, Milk-. P. A. Curtin. No. 54,606; Mar. 9; v. 272; p. 327.
Bottle or jug. C. H. Dayton. No. 54,834; Apr. 13; v. 273; p. 343.
Bottle or similar article. J. L. Quigg. No. 56,029; Aug. 10; v. 277; p. 340.
Bottle or similar article. C. J. Root. No. 54,682; Mar. 9; v. 272; p. 339.
Bottle, Perfumery-. R. Campdera and F. Ayala. No. 55,024; May 4; v. 274; p. 138.
Bottle-stopper. I. L. French. No. 55,374; June 1; v. 275; p. 161.
Bottle-stopper. F. Rustant. Nos. 56,107–8; Aug. 17; v. 277; p. 550.
Bottle-stopper. F. Rustant. No. 56,768; Dec. 14; v. 281; p. 363.
Bottle-wrapper. G. Hall. No. 54,616; Mar. 9; v. 272; p. 329.
Bouquet holder, Corsage-. B. R. Callander. No. 54,594; Mar. 9; v. 272; p. 325.
Bowl. S. Blickman. No. 56,272; Sept. 14; v. 278; p. 315.
Bowl. E. W. Huttig. Nos. 56,433–5; Oct. 26; v. 279; p. 689.
Bowl. T. G. Jones. No. 54,850; Apr. 13; v. 273; p. 346.
Box. P. Hall. No. 56,152; Aug. 24; v. 277; p. 741.
Box. E. B. Philips. No. 56,306; Sept. 14; v. 278; p. 320.
Box. E. C. and P. W. Quimby. No. 54,451; Feb. 10; v. 271; p. 313.
Box. G. B. Scott. No. 54,463; Feb. 10; v. 271; p. 315.
Box, Candy-. E. C. Quinby. No. 55,643; July 6; v. 276; p. 166.
Box, Candy-. E. C. Quinby. No. 55,885; July 20; v. 276; p. 556.
Box, Housemaid's. T. G. Blood. No. 55,023; May 4; v. 274; p. 138.
Box, Jewelry-. W. Polasky. No. 56,027; Aug. 10; v. 277; p. 340.
Bracelet. H. Grasmuk. Nos. 56,602–7; Nov. 16; v. 280; pp. 557–8.
Bracelet, Clasp for a ribbon-. R. King. Nos. 55,423–4; June 8; v. 275; p. 367.
Bracelet, Novelty picture-. J. B. Griffin. No. 55,788; July 13; v. 276; p. 366.
Bracelet, Watch-. A. Levin and J. Medin. No. 54,936; Apr. 20; v. 273; p. 578.
Bracket. J. Glassberg. No. 55,603; July 6; v. 276; p. 159.
Bracket. E. H. Weber. No. 54,712; Mar. 9; v. 272; p. 344.
Bracket, Manifold-. C. E. Mason. No. 55,628; July 6; v. 276; p. 163.
Bracket-oval. H. Cohn. No. 56,049; Aug. 10; v. 277; p. 344.
Brassière. H. Frieland. No. 56,592; Nov. 16; v. 280; p. 555.
Brassière-hook. D. C. Warner and F. L. Langhammer. No. 55,219; May 18; v. 274; p. 563.
Brush. N. L. O. Stiles. No. 54,565; Mar. 2; v. 272; p. 142.
Brush, Eyebrow-. J. A. Campbell. No. 54,815; Apr. 6; v. 273; p. 135.
Brush, Scrubbing-. J. Colwell. No. 56,584; Nov. 16; v. 280; p. 554.
Bubble-blower. C. Bogert. No. 55,409; June 8; v. 275; p. 365.
Buckle. L. Alterson. No. 56,246; Sept. 7; v. 278; p. 135.
Buckle, Belt-. L. W. Shields. Nos. 54,990–2; Apr. 27; v. 273; p. 766.
Buckle frame, Belt-. E. M. Davis. Nos. 55,150–5; May 18; v. 274; p. 552.
Buckle frame, Belt-. E. M. Davis. No. 55,250; May 25; v. 274; p. 773.
Buckle frame, Belt-. L. W. Shields. Nos. 55,198–213; May 18; v. 274; pp. 560–2.
Buffet. H. Silver. No. 56,201; Aug. 24; v. 277; p. 749.
Bulletin-board. H. J. Mahin. Nos. 55,626–7; July 6; v. 276; p. 163.
Bulletin-board. H. J. Mahin. No. 55,805; July 13; v. 276; p. 369.
Bumper-bar. L. P. Halliday. No. 56,697; Nov. 30; v. 280; p. 964.
Burner, Gas-. A. H. and G. A. Humphrey. No. 54,744; Mar. 23; v. 272; p. 689.
Bundle-tier-machine frame. A. H. Saxton and J. J. Bachmayer. No. 55,533; June 22; v. 275; p. 779.
Bundle-tier-machine frame. A. H. Saxton and J. J. Bachmayer. No. 56,310; Sept. 14; v. 278; p. 321.
Burner, Incense-. H. S. Halstead. Nos. 56,810–11; Dec. 28; v. 281; p. 746.
Burner, Oil-. R. L. Doran. No. 55,028; May 4; v. 274; p. 138.
Burner support, Gaseous-fuel-. H. McKinnie. No. 54,949; Apr. 20; v. 273; p. 580.
Bust-cover. A. Matera. No. 56,370; Oct. 5; v. 279; p. 140.
Button. J. R. Bellis. No. 55,018; May 4; v. 274; p. 137.
Button. J. A. Duncan, Jr. No. 55,941; Aug. 3; v. 277; p. 138.
Button. C. Hallauer. No. 55,037; May 4; v. 274; p. 140.
Button. W. W. Hobe. No. 55,862; July 20; v. 276; p. 553.
Button. K. M. Scoville. No. 54,690; Mar. 9; v. 272; p. 341.
Button and tie-slide or similar article, Combined collar-. H. Esch, Jr. No. 55,761; July 13; v. 276; p. 361.

Digitized by Google

Alphabetical list of designs—Continued.

Button, badge, &c. L. S. Forbes. No. 56,350; Oct. 5; v. 279; p. 136.
Button, badge, emblem, &c. G. W. MacLellan. Nos. 54,643–4; Mar. 9; v. 272; p. 334.
Button, badge, emblem, or similar article. L. F. Kengla. No. 54,753; Mar. 23; v. 272; p. 690.
Button, badge, or similar article. J. Aisenstein. No. 55,229; May 25; v. 274; p. 769.
Button, badge, watch-charm, or locket. W. N. Best. No. 54,978; Apr. 27; v. 273; p. 764.
Button, brooch, badge, or similar article. N. B. Le Duc. No. 55,061; May 4; v. 274; p. 144.
Button, Cuff-. C. J. Dieges. No. 54,535; Mar. 2; v. 272; p. 137.
Button, Emblem-. G. H. Rennick. No. 55,396; June 1; v. 275; p. 165.
Button or badge. W. B. Traynor. No. 54,790; Mar. 23; v. 272; p. 696.
Cabinet, Advertising-. J. Jewell. No. 56,165; Aug. 24; v. 277; p. 743.
Cabinet and refrigerator, Combined. T. C. Fleming. No. 55,998; Aug. 10; v. 277; p. 335.
Cabinet body and legs, Phonograph-. F. L. Steger. No. 54,472; Feb. 10; v. 271; p. 317.
Cabinet, Combination-. J. S. Kramer. No. 54,634; Mar. 9; v. 272; p. 332.
Cabinet, Dentist and surgeon. C. S. Murliess. No. 56,622; Nov. 16; v. 280; p. 560.
Cabinet, Display-. G. B. Nason. No. 56,763; Dec. 14; v. 281; p. 373.
Cabinet for rubber bands. F. Pfous. No. 55,396; June 1; v. 275; p. 165.
Cabinet for talking-machines. E. T. Kieffer. Nos. 54,928–9; Apr. 20; v. 273; pp. 576–7.
Cabinet, Newspaper-vending. O. J. Hotaling. No. 54,841; Apr. 13; v. 273; p. 344.
Cabinet, Phonograph-. W. C. Beckwith. No. 55,405; June 8; v. 275; p. 364.
Cabinet, Phonograph-. I. Bensen. No. 55,362; June 1; v. 275; p. 159.
Cabinet, Phonograph-. J. S. Blankinship. No. 55,363; June 1; v. 275; p. 159.
Cabinet, Phonograph-. G. W. Bristol. No. 56,117; Aug. 24; v. 277; p. 734.
Cabinet, Phonograph-. E. C. Cook. Nos. 54,528–30; Mar. 2; v. 272; p. 135.
Cabinet, Phonograph-. H. Coplan. No. 54,531; Mar. 2; v. 272; p. 136.
Cabinet, Phonograph-. M. Davis. No. 54,982; Apr. 27; v. 273; p. 765.
Cabinet, Phonograph-. M. Davis. No. 55,415; June 8; v. 275; p. 366.
Cabinet, Phonograph-. O. Elison. No. 54,904; Apr. 20; v. 273; p. 572.
Cabinet, Phonograph-. W. A. Fricke. No. 54,404; Feb. 10; v. 271; p. 305.
Cabinet, Phonograph-. S. W. Hecox. No. 56,232; Aug. 31; v. 277; p. 939.
Cabinet, Phonograph-. P. Iribe. No. 55,863; July 20; v. 276; p. 553.
Cabinet, Phonograph-. T. Knudson. No. 56,287; Sept. 14; v. 278; p. 317.
Cabinet, Phonograph-. W. A. Mangless. No. 54,857; Apr. 13; v. 273; p. 347.
Cabinet, Phonograph-. W. A. Mangless. Nos. 54,895–6; Apr. 27; v. 273; p. 765.
Cabinet, Phonograph-. W. A. Mangless. Nos. 54,945–6; Apr. 20; v. 273; p. 580.
Cabinet, Phonograph-. M. W. Mix. No. 55,298; May 25; v. 274; p. 781.
Cabinet, Phonograph-. R. W. Morrison. No. 55,073; May 4; v. 274; p. 146.
Cabinet, Phonograph-. C. Y. Nellis. No. 54,988; Apr. 27; v. 273; p. 766.
Cabinet, Phonograph-. H. Orsenigo. No. 55,527; June 22; v. 275; p. 778.
Cabinet, Phonograph-. F. L. Steger. No. 54,788; Mar. 23; v. 272; p. 696.
Cabinet, Phonograph-. W. H. Thommen. Nos. 54,993–55,000; Apr. 27; v. 273; p. 766–8.
Cabinet, Phonograph-. J. H. Weber. No. 55,220; May 18; v. 274; p. 564.
Cabinet, Phonograph-. J. Weible and F. Lohr. No. 54,489; Feb. 10; v. 271; p. 319.
Cabinet, Phonograph-. J. Wolff. No. 54,571; Mar. 2; v. 272; p. 143.
Cabinet, Phonograph-. J. Wolff. No. 55,001; Apr. 27; v. 273; p. 768.
Cabinet, Phonograph-. J. Wolff. No. 56,214; Aug. 24; v. 277; p. 751.
Cabinet, Phonograph-. J. Wolff. Nos. 56,317–29; Sept. 14; v. 278; pp. 322–5.
Cabinet, Phonograph-. J. Wolff. Nos. 56,642–3; Nov. 16; v. 280; p. 563.
Cabinet, Phonograph-. D. Zork. Nos. 55,003–8; Apr. 27; v. 273; p. 769–70.
Cabinet, Phonographic. A. Cusolito and R. Calcagni. No. 54,385; Feb. 10; v. 271; p. 302.
Cabinet, Phonographic-disk-record. E. H. Fairbanks. No. 55,596; July 6; v. 276; p. 157.
Cabinet, Phonographic-disk-record. E. M. Howard. No. 55,045; May 4; v. 274; p. 141.
Cabinet, Phonographic-record-disk. E. M. Howard. No. 55,613; July 6; v. 276; p. 161.
Cabinet, Sewing-machine. W. C. Free.. No. 54,840; Apr. 13; v. 273; p. 342.
Cabinet, Sewing-machine. J. A. Martin. No. 56,703; Nov. 30; v. 280; p. 965.
Cabinet, Sound-reproducing. H. T. Schiff. Nos. 56,568–73; Nov. 9; v. 280; pp. 357–8.
Cabinet, Sterilising-. E. C. Booth. No. 54,829; Apr. 13; v. 273; p. 342.
Cabinet, Talking-machine. J. Belpedio. No. 55,448; June 15; v. 275; p. 566.
Cabinet, Talking-machine. M. F. Fybush. No. 55,033; May 4; v. 274; p. 139.
Cabinet, Talking-machine. L. Roberts. No. 55,329; May 25; v. 274; p. 786.
Cabinet, Talking-machine. D. C. Williams. No. 55,103; May 4; v. 274; p. 151.
Cabinet, Talking-machine. H. B. Wolper. Nos. 55,226–7; May 18; v. 274; p. 565.
Cabinet, Vending-. D. Sheerin. No. 55,534; June 22 v. 275; p. 780.
Cake cone. J. Shapiro. Nos. 56,385–6; Oct. 5; v. 279; p. 143.
Calendar-holder, Loose-leaf-pad. F. A. Weeks. No. 55,221; May 18; v. 274; p. 564.
Calendar-mounting. A. J. McDade. No. 55,629; July 6; v. 276; p. 164.
Calender-front. A. J. McDade. No. 56,371; Oct. 5; v. 279; p. 140.
Camera-case. L. Brown. No. 55,978; Aug. 10; v. 277; p. 331.
Camera or the like, Motion-picture. L. Brown. No. 55,976; Aug. 10; v. 277; p. 330.
Can, Oil-. J. D. Karle. No. 55,472; June 15; v. 275 p. 570.
Can, Oil-. S. C. Price. No. 55,641; July 6; v. 276; p. 166.
Can-opener. A. M. Anderson and W. W. Abits. No. 54,364; Feb. 10; v. 271; p. 299.
Can-opener. G. A. Carlson. No. 55,450; June 15; v. 275 p. 566.
Can-opener. W. R. Dell. No. 55,984; Aug. 10; v. 277; p. 332.
Can or similar receptacle, Sifter-top. M. H. Conner. Nos. 54,381–4; Feb. 10; v. 271; p. 302.
Can or similar receptacle, Sifter-top. H. Hermani. Nos. 54,415–16; Feb. 10; v. 271; p. 307.
Cans, Pouring-spout for. H. L. Strongson. No. 56,311; Sept. 14; v. 278; p. 321.
Candelabrum. S. H. Leavenworth. Nos. 55,183–5; May 18; v. 274; p. 557.
Candelabrum and electric terminal, Combined. C. B. Ferguson. No. 56,248; Sept. 7; v. 278; p. 186.
Candelabrum, cigar, cigarette, and match holder, and ash-receiver. E. Schulte and J. Welte, Jr. No. 54,462; Feb. 10; v. 271; p. 315.
Candelabrum, Electric. F. A. Frerichs. No. 56,125; Aug. 24; v. 277; p. 735.
Candelabrum for devotional purposes. W. J. Lorenz. Nos 55,476–8; June 15; v. 275; pp. 570–1.
Candelabrum, Ornamental. F. S. Crowell. No. 56,585; Nov. 16; v. 280; p. 554.
Candle. C. J. Messer. No. 55,066; May 4; v. 274; p. 145.
Candle. G. A. Moyer. No. 56,021; Aug. 10; v. 277; p. 339.
Candle, Sacramental. T. F. Larkin. No. 56,441; Oct. 26; v. 279; p. 690.
Candlestick, Electric. F. A. Frerichs. No. 56,124; Aug. 24; v. 277; p. 735.
Candy-box. E. I. Gudelj. No. 56,696; Nov. 30; v. 280; p. 964.
Candy or chewing-gum tablet. J. H. Smith and C. D. Blackmon. No. 55,536; June 22; v. 275; p. 780.
Candy piece. L. Bergeron. No. 54,717; Mar. 23; v. 272; p. 684.
Cane. H. Hatchet. No. 56,722; Dec. 7; v. 281; p. 164.
Cane and umbrella light, Combination. J. Chmielewski. No. 56,737; Dec. 14; v. 281; p. 367.
Cap and bottle opener, box-opener, and cigar-cutter, Combination. A. T. Charlier. No. 55,843; July 20; v. 276; p. 549.
Cap-cover. P. G. Tilton. No. 56,037; Aug. 10; v. 277; p. 341.
Cap, Swimming-. W. D. Forbes. No. 56,123; Aug. 24; v. 277; p. 735.
Car body, Individual-seat service-. F. M. Hoblitt. No. 56,233; Aug. 31; v. 277; p. 939.
Car, Child's riding-. C. A. Barden. No. 55,234; May 25; v. 274; p. 770.
Car, Foot-propelled child's. J. H. Strain. No. 56,204; Aug. 24; v. 277; p. 750.
Car for an aerial swing. R. N. Anderson and A. Robinson. No. 56,685; Nov. 30; v. 280; p. 962.
Car mascot or ornament, Motor-. B. Bairnsfather. No. 54,494; Feb. 17; v. 271; p. 499.
Car, Push and coaster. A. Grill. No. 55,608; July 6; v. 276; p. 160.
Carbureter. L. E. Van Briggle. No. 54,706; Mar. 9; v. 272; p. 343
Carbureter body or casing. C. E. Johnson. No. 55,469 June 15; v. 275; p. 569.

Digitized by Google

Card, Educational display. M. J. M. Larkin. No. 56,440. Oct. 26; v. 279; p. 690.
Card-holder. F. A. Fuller. No 55,266; May 25; v. 274; p. 775.
Card or article of similar nature, Record-receiving. F. Evans and J. Corcos. No. 54,610; Mar. 9; v. 272; p. 328.
Card, Playing. A. Bacigalupi. No. 55,583; July 6; v. 276; p. 155.
Card, Playing-. J. C. Gaffney. No. 54,612; Mar. 9; v. 272; p. 328.
Card, Playing-. J. C. Gaffney. No. 54,736; Mar. 23; v. 272; p. 687.
Card, Playing-. J. C. Gaffney. No. 55,943; Aug. 3; v. 277; p. 188.
Card, Playing-. M. E. Harris. No. 55,466; June 15; v. 275; p. 569.
Card, Playing-. H. V. A. Loring. No. 56,072; Aug. 10; v. 277; p. 348.
Cards, Set of playing-. F. W. Smith. 56,482; Oct. 26; v. 279; p. 697.
Cart. M. J. Carls and H. F. Prucha. No. 55,743; July 13; v. 276; p. 357.
Casket-bar bracket or lug. B. A. Utter. Nos. 56,040–1; Aug. 10; v. 277; p. 342.
Casket, Burial-. J. E. Case. No. 56,096; Aug. 17; v. 277; p. 548.
Casket, Burial-. S. H. Sols. No. 56,483; Oct. 26; v. 279; p. 697.
Casket container, Burial-. C. Blott. No. 55,407; June 8; v. 275; p. 364.
Casket-handle. H. W. Hodgetts. No. 56,558; Nov. 9; v. 280; p. 355.
Casserole or baking-dish and cover, Glass. R. Haley. No. 54,914; Apr. 20; v. 273; p. 574.
Caster, Cruet-. W. L. White. Nos. 55,495–6; June 15; v. 275; p. 574.
Caster, Furniture-. E. Chalupa. No. 56,583; Nov. 16; v. 280; p. 554.
Caster, Swivel-. J. L. Chesnutt. No. 55,980; Aug. 10; v. 277; p. 331.
Ceiling-fixture, Electric. F. A. Frerichs. No. 56,134; Aug. 24; v. 277; p. 735.
Cemetery-lot coping. J. E. Luts. No. 55,064; May 4; v. 274; p. 144.
Chair. G. W. S. Leijen. No. 56,367; Oct. 5; v. 279; p. 139.
Chair. E. E. Rewick. No. 54,863; Apr. 13; v. 273; p. 348.
Chair. C. Rieder. No. 55,399; June 1; v. 275; p. 165.
Chair, Bent-stock. F. Burjanek. No. 54,375; Feb. 10; v. 271; p. 301.
Chair, Convertible. J. J. South. No. 54,697; Mar. 9; v. 272; p. 342.
Chair for children, Barber's. D. Oppenheim. No. 54,764; Mar. 23; v. 272; p. 692.
Chandelier. B. Newland. Nos. 56,466–7; Oct. 26; v. 279; p. 694.
Chandelier. E. H. Weber. No. 54,711; Mar. 9; v. 272; p. 344.
Chandelier arm, Electric-. C. Bresloff. No. 55,242; May 25; v. 274; p. 771.
Chandelier-arm for a lighting-fixture. G. V. Strahan. No. 56,776; Dec. 14; v. 281; p. 375.
Chandelier-body plate for a lighting-fixture. G. V. Strahan. No. 56,775; Dec. 14; v. 281; p. 375.
Chandelier-body plate for a lighting-fixture. G. V. Strahan and F. W. Mathieu. No. 56,783; Dec. 14; v. 281; p. 376.
Chandelier, Electric. F. A. Frerichs. No. 56,130; Aug. 24; v. 277; p. 737.
Chandelier, Electric. F. A. Frerichs. No. 56,133; Aug. 24; v. 277; p. 737.
Chandelier top, Electric-. C. Bresloff. No. 55,241; May 25; v. 274; p. 771.
Chandeliers, Stem-loop for. B. Newland. No. 56,456; Oct. 26; v. 279; p. 692.
Chandeliers, Stem-loop for. B. Newland. No. 56,460; Oct. 26; v. 279; p. 692.
Charm, pin, flag, emblem, banner, pennant, pillow top, or article of similar nature. T. C. Gleason. No. 55,560; June 29; v. 275; p. 978.
Checker-board. A. Day. No. 55,455; June 15; v. 275; p. 567.
China, glass, or like articles, Surface decoration for. A. Martin. No. 55,807; July 13; v. 276; p. 309.
China tableware article. C. Firth. No. 54,907; Apr. 20; v. 273; p. 573.
Christmas-tree ornament. S. Medvetz. No. 56,372; Oct. 5; v. 279; p. 140.
Cigar and ash holder. D. Frishman. No. 56,745; Dec. 14; v. 281; p. 369.
Cigar and cigarette stand and ash-receiver, Combined. E. Shulte and J. Weite, Jr. No. 54,465; Feb. 10; v. 271; p. 316.
Cigar-cutter. W. A. Franck. No. 55,509; June 22; v. 275; p. 775.
Cigar-holder, Pocket. F. Wojciechowski. No. 56,112; Aug. 17; v. 277; p. 551.
Cigar-lighter. H. S. White. No. 56,545; Nov. 2; v. 280; p. 151.
Cigar lighter and inkstand, Combined. L. V. Aronson. No. 56,093; Aug. 17; v. 277; p. 548.
Cigarette-case. F. H. Blackmarr. No. 54,979; Apr. 27; v. 273; p. 764.
Clamping-dog. C. R. Townsend. Nos. 55,830–1; July 13; v. 276; p. 373–4.
Clamping-dog. C. R. Townsend. No. 55,900; July 20; v. 276; p. 559.
Clasp. E. Hambaugh. No. 56,359; Oct. 5; v. 279; p. 138.
Cleaner case, Suction-. I. L. Sheffer. No. 54,780; Mar. 23, v. 272; p. 695.
Cleaning, scouring, and polishing pad. T. Ludwig. No. 56,700; Dec. 14; v. 281; p. 372.
Cleaver, perforator, and ice-pick, Combination. J. H. Lickert. No. 56,010; Aug. 10; v. 277; p. 337.
Clock-bank case. C. Fisher. Nos. 55,853–4; July 20; v. 276; p. 551.
Clock-case. P. Belott. No. 55,972; Aug. 10; v. 277; p. 330.
Clock-case. S. A. Dulczewski. No. 55,120; May 11; v. 274; p. 358.
Clock-casing. H. W. Bennet. No. 55,019; May 4; v. 274; p. 137.
Clocks, barometers, &c., Casing for indicators, such as. M. Weiwoda. No. 54,568; Mar. 2; v. 272; p. 142.
Clothesline-clamp. J. Miller. No. 55,953; Aug. 3; v. 277; p. 140.
Clutch. W. A. Schuler. No. 56,196; Aug. 24; v. 277; p. 748.
Coaster, Child's. M. B. Nelson. No. 54,447; Feb. 10; v. 271; p. 312.
Coat. A. E. Gray. No. 55,944; Aug. 3; v. 277; p. 139.
Cocoanut-shell or similar article, Surface ornamentation for a. E. Simola. No. 55,721; July 6; v. 276; p. 178.
Coffee or tea service, Crystal. H. C. Biette. No. 55,501; June 22; v. 275; p. 773.
Coffee-pot, Filter. E. Aborn. No. 54,810; Mar. 30; v. 272; p. 888.
Collar. W. Schmid. No. 56,629; Nov. 16; v. 280; p. 561.
Collar-clip. K. Staufenbeil. No. 55,214; May 18; v. 274; p. 563.
Collar, Embroidered lace. H. Schwarber. No. 55,727; July 6; v. 276; p. 179.
Collar-fastener. B. Brooks. No. 56,550; Nov. 9; v. 280; p. 354.
Collar, Fold-. H. F. Hurd. No. 55,128; May 11; v. 274; p. 359.
Collar-holder. F. J. Le Clair. No. 56,238; Aug. 31; v. 277; p. 940.
Collar-holder. J. A. Mariner. No. 55,568; June 29; v. 275; p. 980.
Collar-holder. S. Sampson. No. 55,488; June 15; v. 275; p. 572.
Collar holder, Gentleman's soft-. K. Staufenbeil. No. 54,873; Apr. 13; v. 273; p. 350.
Collar-stud. H. C. Freed. No. 55,458; June 15; v. 275; p. 565.
Communication-board. A. S. Crockett. No. 55,593; July 6; v. 276; p. 157.
Condenser and motor and compressor base. E. Olsen. No. 56,302; Sept. 14; v. 278; p. 319.
Condiment-holder. M. A. Becolas. No. 55,360; June 1; v. 275; p. 158.
Confectionery bouquet. A. M. Porter. No. 56,308; Sept. 14; v. 278; p. 321.
Container. H. Brill. No. 56,095; Aug. 17; v. 277; p. 548.
Container. J. C. Morrison. No. 54,951; Apr. 20; v. 273; p. 581.
Container. V. Vivaudou. Nos. 56,210–11; Aug. 24; v. 277; p. 751.
Container, Duplex. J. H. Smith. No. 56,082; Aug. 10; v. 277; p. 349.
Container, Toilet-powder and jewelry. H. T. Clodfelter. No. 54,833; Apr. 13; v. 273; p. 343.
Controller. G. A. Knaak. No. 55,620; July 6; v. 276; p. 162.
Controller. G. A. Knaak. No. 56,007; Aug. 10; v. 277; p. 336.
Cooker. A. M. Demuth. No. 54,607; Mar. 9; v. 272; p. 327.
Cooker-pot. W. Luttringhaus. No. 55,187; May 18; v. 274; p. 558.
Cooking-receptacle. C. A. Massing. No. 55,188; May 18; v. 274; p. 558.
Costume, Woman's or miss's. H. M. Buck. No. 55,244; May 25; v. 274; p. 772.
Costumer-hook. T. D. Miller. Nos. 56,671–5; Nov. 23; v. 280; pp. 756–7.
Counter and display-cabinet, Help-self. W. J. Bailey. No. 56,263; Sept. 14; v. 278; p. 313.
Counter, Help-self. W. J. Bailey. No. 55,584; July 6; v. 276; p. 155.
Coveralls, Suit of. P. and M. E. Pfefferle. No. 55,573; June 29; v. 275; p. 980.
Cow-tail holder. E. Moore and S. F. Welsh. No. 54,667; Mar. 9; v. 272; p. 337.
Crucifix. T. Schisgall. No. 56,628; Nov. 16; v. 280; p. 561.
Crumb set. T. B. Easby. Nos. 55,757–8; July 13; v. 276; p. 360.

Digitized by Google

Alphabetical list of designs—Continued.

Culinary fixture. W. R. Walker. No. 56,315; Sept. 14; v. 278; p. 322.
Cultivator, Motor-. D. A. Wilson. No. 54,807; Mar. 23; v. 272; p. 699.
Cup. R. Klein. No. 56,749; Dec. 14; v. 281; p. 369.
Cup, Metal sponge-. H. Merkel and R. W. Guy. No. 56,101; Aug. 17; v. 277; p. 549.
Cup. Sundae-. A. F. Saunders. No. 55,085; May 4; v. 274; p. 148.
Curtain and shade hanger. M. Dubish. No. 55,157; May 18; v. 274; p. 553.
Curtain, Automobile side-. R. K. Thomson. No. 56,109; Aug. 17; v. 277; p. 550.
Curtain-pole and shade bracket. C. A. Husser. No. 55,274; May 25; v. 274; p. 777.
Curtain-pole holder. M. Jaszewski. No. 56,005; Aug. 10; v. 277; p. 336.
Curtain-pole holder. S. Walega. No. 54,709; Mar. 9; v. 272; p. 344.
Cushion top or article of similar nature. S. Randle. No. 56,380; Oct. 5; v. 279; p. 142.
Cuspidor. W. F. Koken. No. 55,130; May 11; v. 274; p. 360.
Cutlery holder, Dining-. A. Onufryk. No. 55,639; July 6; v. 276; p. 166.
Cycle, Kiddie-. A. P. Spiringer. No. 55,825; July 13; v. 276; p. 372.
Cylinder-cock casing. I. A. Seiders. No. 55,436; June 8; v. 275; p. 369.
Dashboards, Seepage-intercepting attachment for. H. and L. Hoffman. No. 55,172; May 18; v. 274; p. 555.
Dental-apparatus pedestal. O. H. and A. F. Pieper. No. 56,470; Oct. 26; v. 279; p. 695.
Dental-apparatus pedestal. O. H. and A. T. Pieper. No. 56,728; Dec. 7; v. 281; p. 165.
Dental cotton-holder. T. G. Lewis. No. 56,181; Aug. 24; v. 277; p. 746
Desk. P. J. Jones and P. D. Schreiber. No. 56,168; Aug. 24; v. 277; p. 744.
Desk. G. P. Wigginton. No. 55,497; June 15; v. 275; p. 574.
Desk and seat, Combined. P. J. Jones and P. D. Schreiber. No. 56,170; Aug. 24; v. 277; p. 744.
Desk, Combination school-. J. C. Moore. No. 55,570; June 29; v. 275; p. 980.
Desk-top, Auxiliary. G. E. Stimpson. No. 56,242; Aug. 31; v. 277; p. 941.
Dial, Instrument-. D. M. White. No. 56,045; Aug. 10; v. 277; p. 343.
Dictaphone-record cabinet. S. Q. McClure. No. 55,869; July 20; v. 276; p. 554.
Direction-indicator. A. N., L. S., and J. J. Arata. No. 54,573; Mar. 9; v. 272; p. 322.
Dish. D. G. Norman. No. 54,954; Apr. 20; v. 273; p. 581.
Dish, Carving-. G. H. Berwick. No. 55,238; May 25; v. 274; p. 771.
Dish, Covered. E. J. Johnson. No. 54,849; Apr. 13; v. 273; p. 346.
Dish or receptacle. J. L. Wentz. No. 55,222; May 18; v. 274; p. 564.
Dish or similar article. E. J. Ridgeway. Nos. 54,957–9; Apr. 20; v. 273; p. 582.
Dish, Serving-. I. L. French. No. 56,744; Dec. 14; v. 281; p. 369.
Dish, Transparent cooking-. W. Churchill. Nos. 54,898–9; Apr. 20; v. 273; p. 572.
Dish, Transparent cooking-. W. Churchill. No. 55,306; June 1; v. 275; p. 160.
Dish-washing machine. F. E. Wolcott. No 55,351; May 25; v. 274; p. 790.
Dispensing apparatus, Casing for a. M. B. Muxen. No. 55,873; July 20; v. 276; p. 554.
Dispensing-receptacle. R. R. Smith. No. 54,871; Apr. 13; v. 273; p. 350.
Display-card. W. A. Honeyman. No 56,814; Dec. 28; v. 281; p. 747.
Display-case. W. A. Fifer. No. 56,348; Oct. 5; v. 279; p. 136.
Display-case. W. A. Fifer. No. 56,368; Oct. 5; v. 279; p. 139.
Display-counter. W. T. Sherer. No. 55,490; June 15; v. 275; p. 573.
Display device. J. Stranders. No. 56,786; Dec. 14; v. 281; p. 376.
Display-rack. F. W. Gibson. No. 55,778; July 13; v. 276; p. 364.
Display-rack. B. E. Willett. No. 54,883; Apr. 13; v. 273; p. 352.
Display-stand. A. Prini. No. 55,642; July 6; v. 276; p. 166.
Display-stand. H. Soref. No. 56,241; Aug. 31; v. 277; p. 941.
Display-stand. J. P. Stetson. No. 55,098; May 4; v. 274; p. 151.
Display-stand, Belt. W. C. Klee. No. 55,619; July 6; v. 276; p. 162.
Display stand, Merchandise-. I. L. Marienthal. No. 56,369; Oct. 3; v. 279; p. 140.
Display stand, Oil-cloth-. M. Thomsen. No. 56,084; Aug. 10; v. 277; p. 350.
Doll. J. D. Benvenuti. No. 55,020; May 4; v. 274; p. 137.
Doll. S. B. Bernstein. No. 55,840; July 20; v. 276; p. 548.
Doll. V. Bernstein. No. 55,841; July 20; v. 276; p. 549.
Doll. C. and L. R. Bonwit. No. 54,495; Feb. 17; v. 271; p. 499.
Doll. H. Bugbee. No. 56,582; Nov. 16; v. 280; p. 554.
Doll. P. M. Carey. Nos. 54,595–6; Mar. 9; v. 272; pp. 325–6.
Doll. C. C. Cooley. No. 55,503; June 22; v. 275; p. 774.
Doll. G. Corry. No. 55,594; July 6; v. 276; p. 157.
Doll. M. P. Cottrell. No. 56,693; Nov. 30; v. 280; p. 964.
Doll. V. Ey. No. 56,657; Nov. 23; v. 280; p. 752;
Doll. D. Fairbanks. No. 54,728; Mar. 23; v. 272; p. 686.
Doll. J. Feuerlicht. No. 55,942; Aug. 3; v. 277; p. 138.
Doll. G. F. Gillespie. No. 55,511; June 22; v. 275; p. 775.
Doll. B. Goldenberg. No. 55,561; June 29; v. 275; p. 979.
Doll. H. Goldman. Nos. 54,409–11; Feb. 10; v. 271; p. 306.
Doll. J. B. Gruelle. No. 56,149; Aug. 24; v. 277; p. 749.
Doll. B. A. Haines. No. 56,667; Nov. 23; v. 280; p. 755.
Doll. F. B. Hatch. No. 55,040; May 4; v. 274; p. 141.
Doll. A. Hermelin. No. 54,919; Apr. 20; v. 273; p. 575.
Doll. V. Judge. Nos. 54,505–8; Feb. 17; v. 271; pp. 501–2.
Doll. V. Judge. No. 54,751; Mar. 23; v. 272; p. 690.
Doll. F. Kaupmann, Jr. No. 56,067; Aug. 10; v. 277; p. 347.
Doll. R. E. Lambert and E. V. Strong. No. 56,818; Dec. 28; v. 281; p. 748.
Doll. H. L. Lederer. No. 55,866; July 20; v. 276; p. 553.
Doll. J. M. Lockwood, Jr. No. 54,427; Feb. 10; v. 271; p. 309.
Doll. J. W. MacBoyle. No. 54,939; Apr. 20; v. 273; p. 578.
Doll. E. Malavarca. No. 55,806; July 13; v. 276; p. 369.
Doll. A. E. Malone. No. 55,428; June 8; v. 275; p. 368.
Doll. M. M. Meldram. No. 55,569; June 29; v. 275; p. 980.
Doll. D. Ostenberg. No. 54,766; Mar. 23; v. 272; p. 692.
Doll. C. H. Pajeau. No. 55,881; July 20; v. 276; p. 556.
Doll. E. Peruggi. Nos. 55,882–3; July 20; v. 276; p. 556.
Doll. E. Peruggi. Nos. 56,190–1; Aug. 24; v. 277; pp. 747–8.
Doll. G. Pfeffer. (Reissue.) No. 14,998; Nov. 30; v. 280; p. 962.
Doll. M. W. Phillips. No. 54,449; Feb. 10; v. 271; p. 313.
Doll. A. M. Porter. No. 55,640; July 6; v. 276; p. 166.
Doll. A. Schwartz. No. 54,772; Mar. 23; v. 272; p. 693.
Doll. E. Shaver. Nos. 54,774–8; Mar. 23; v. 272; p. 773.
Doll. H. J. Shepard. No. 54,464; Feb. 10; v. 271; p. 315.
Doll. B. and B. Squier. No. 55,962; Aug. 3; v. 277; p. 142.
Doll. S. P. Starkweather. Nos. 55,723–4; July 6; v. 276; p. 179.
Doll figure. F. O. Brockman. No. 54,888; Apr. 20; v. 273; p. 570.
Doll-head. A. Neble. No. 55,074; May 4; v. 274; p. 146.
Doll, Novelty. M. Murray. No. 56,375; Oct. 5; v. 279; p. 141.
Doll or statuette. S. Haskell. No. 55,562; June 29; v. 275; p. 979.
Doll or statuette. H. B. Smith, K. C. Thomas, and A. J. Ouellette. Nos. 55,894–5; July 20; v. 276; p. 558.
Doll, Sammy Sandman. F. Obrecht. No. 55,076; May 4; v. 274; p. 147.
Doll-shoe bottom. J. H. Shaw. No. 54,779; Mar. 23; v. 272; p. 695.
Doll, statuette, sculpture, or article of similar nature. H. Weinberger. No. 55,579; June 29; v. 275; p. 982.
Doll's head. F. F. Ernst and W. H. Gorman. No. 56,588; Nov. 16; v. 280; p. 555.
Doughnut. S. G. Loeffler, Jr. No. 54,554; Mar. 2; v. 272; p. 140.
Drawer-pull. C. A. Cutler. No. 55,595; July 6; v. 276; p. 157.
Drawing instrument. E. L. Snyder. No. 55,538; June 22; v. 275; p. 780.
Dress. M. Hinman. Nos. 54,518–19; Feb. 24; v. 271; pp. 653–4.
Dress. J. Nemser. No. 55,638; July 6; v. 276; p. 165.
Dress, Child's. M. A. Hirsh. No. 55,860; July 20; v. 276; p. 552.
Dress, Child's. A. Weissenbach. Nos. 56,639–41; Nov. 16; v. 280; p. 563.
Dress, Child's play-. H. D. Silberman. No. 56,630; Nov. 16; v. 280; p. 561.
Dress, Lady's. A. B. Wells. Nos. 54,490–1; Feb. 10; v. 271; p. 320.
Dresser. E. E. Rewick. No. 54,864; Apr. 13; v. 273; p. 349.

Digitized by Google

Alphabetical list of designs---Continued.

Drill-press frame. P. H. Leckinger. No. 55,387; June 1; v. 275; p. 163.
Drinking-fountains for stock, Display-stand for. H. L. Ferris. No. 56,804; Dec. 28; v. 281; p. 745.
Dustpan. N. Brulé. No. 54,891; Apr. 20; v. 273; p. 570.
Ear for a handle of bowls, &c. V. Gaertner. No. 56,230; Aug. 31; v. 277; p. 939.
Edging. J. G. Chapman. Nos. 54,359–61; Jan. 20; v. 270; p. 459.
Egg-beater. M. O. Thompson. No. 55,340; May 25; v. 274; p. 788.
Egg-cup. C. F. Bierbach. No. 54,367; Feb. 10; v. 271; p. 299.
Egg-poacher. G. W. Ferdon. Nos. 55,598–9; July 6; v. 276; p. 158.
Egg-testing appliance. E. M. French. No. 56,060; Aug. 10; v. 277; p. 346.
Electric, gas, and combined fixtures, Arm for. B. Newland. Nos. 56,403–4; Oct. 19; v. 279; p. 498.
Electric generating unit. H. D. Shamberg. No. 54,868; Apr. 13; v. 273; p. 349.
Electric heater. J. R. Bakstad. Nos. 56,408–11; Oct. 26; v. 279; p. 684.
Electric-heater guard. R. G. Ledig. No. 54,520; Feb. 24; v. 271; p. 654.
Electric socket cup. B. Newland. No. 56,461; Oct. 26; v. 279; p. 693.
Electric switch, &c., Plate for an. F. E. Greene. No. 56,143; Aug. 24; v. 277; p. 739.
Electric switch, &c., Plate for an. F. E. Greene. No. 56,147; Aug. 24; v. 277; p. 740.
Electric-transformer case. S. M. Harvey and S. E. Lorenz. No. 55,422; June 8; v. 275; p. 367.
Emblem, badge, &c. R. H. Everett. No. 56,346; Oct. 5; v. 279; p. 136.
Emblem, badge, button or similar article. M. E. Heilbrun. No. 56,155; Aug. 24; v. 277; p. 741.
Emblem, badge, button, or similar article. H. Payton. No. 56,624; Nov. 16; v. 280; p. 560.
Emblem, badge, or button. H. T. Dickinson. No. 55,847; July 20; v. 276; p. 550.
Emblem, badge, or similar article. A. G. Seeholzer. No. 55,088; May 4; v. 274; p. 149.
Emblem, badge, pin, fob, ring, or like article. R. L. Hatfield. No. 55,041; May 4; v. 274; p. 141.
Emblem, badge, pin, ornament, or similar article. F. L. Wilmarth. No. 55,105; May 4; v. 274; p. 152.
Emblem, badge, ring, fob, &c. W. H. Demarest. No. 54,388; Feb. 10; v. 271; p. 303.
Emblem, badge, stickpin, or similar article. H. G. Essayan. No. 55,554; June 29; v. 275; p. 978.
Emblem, banner, badge, pin, or similar article. T. A. Clancy. No. 55,844; July 20; v. 276; p. 549.
Emblem, banner, or armband. E. A. Klapp. No. 55,798; July 13; v. 276; p. 368.
Emblem, brooch, button, fob, or similar article. J. B. Curran, Jr. No. 56,655; Nov. 23; v. 280; p. 752.
Emblem, medal, badge, insignia, &c. M. D. Salisbury. No. 55,649; July 6; v. 276; p. 167.
Emblem or badge. H. I. Cohen. No. 56,340; Oct. 5; v. 279; p. 134.
Emblem, pin, button, or similar article. E. C. Heathcote. Nos. 54,620–1; Mar. 9; v. 272; pp. 329–30.
Emblem, pin, button, or similar article. E. C. Heathcote. Nos. 56,610–11; Nov. 16; v. 280; p. 558.
Emblem, pin, button, watch-charm, medal, or similar article. E. C. Heathcote. No. 55,790; July 13; v. 276; p. 366.
Emblem pin or button, Hero-. E. A. Klapp. No. 55,799; July 13; v. 276; p. 368.
Emblem-plate, Association. E. F. McIntyre. No. 56,670; Nov. 23; v. 280; p. 755.
Emblem, Service. W. F. Stevens. No. 54,362; Jan. 20; v. 270; p. 459.
Emblematic article of manufacture. D. Rosenbach. No. 56,239; Aug. 31; v. 277; p. 940.
Engines, Piston for combustion-. A. J. Farmer. No. 56,347; Oct. 5; v. 279; p. 136.
Eraser-head for lead-pencils, Rubber. E. Faber. No. 56,589; Nov. 16; v. 280; p. 555.
Eyeglasses, Pair of. L. A. Heilig. No. 55,468; June 15; v. 275; p. 569.
Fabric, Elastic. V. Guinzburg. No. 56,358; Oct. 5; v. 279; p. 138.
Fabric for decorative purposes, Textile. G. Reybet. Nos. 56,194–5; Aug. 24; v. 277; p. 748.
Fabric for decorative purposes, Textile. G. J. Vergile. Nos. 56,208–9; Aug. 24; v. 277; p. 750.
Fabric for decorative purposes, Textile. C. Waugh. Nos. 55,845–6; May 25; v. 274; pp. 788–9.
Fabric for decorative purposes, Textile. C. Waugh. No. 56,086; Aug. 10; v. 277; p. 350.
Fabric for decorative purposes, Textile. C. Waugh. No. 56,213; Aug. 24; v. 277; p. 751.
Fabric or article of similar nature, Textile. A. Fratl. No. 54,734; Mar. 23; v. 272; p. 687.
Fabric or similar article of manufacture having surface ornamentation, Printed. H. Wearne. Nos. 56,682–3; Nov. 23; v. 280; p. 758.
Fabric, Textile. J. H. Bunting. Nos. 55,245–7; May 25; v. 274; p. 772.
Fabric, Textile. H. F. Dommenge, Jr. No. 55,251; May 25; v. 274; p. 773.
Fabric, Textile. J. Ebel. No. 55,370; June 1; v. 275; p. 160.
Fabric, Textile. A. Eisele. Nos. 55,254–8; May 25; v. 274; pp. 773–4.
Fabric, Textile. A. Eisele. Nos. 55,849–50; July 20; v. 276; p. 550.
Fabric, Textile. C. Katz. No. 55,517; June 22; v. 275; p. 776.
Fabric, Textile. C. Katz. No. 56,172; Aug. 24; v. 277; p. 744.
Fabric, Textile. E. Krupicka. Nos. 55,279–85; May 25; v. 274; pp. 778–9.
Fabric, Textile. E. Krupicka. No. 55,519; June 22; v. 275; p. 777.
Fabric, Textile. E. Krupicka. No. 55,622; July 6; v. 276; p. 162.
Fabric, Textile. E. Krupicka. No. 55,949; Aug. 3; v. 277; p. 140.
Fabric, Textile. E. Krupicka. Nos. 56,177–9; Aug. 24; v. 277; pp. 745–6.
Fabric, Textile. C. Loegler. No. 55,623; July 6; v. 276; p. 163.
Fabric, Textile. L. F. Orcutt. Nos. 55,304–8; May 25; v. 274; p. 782.
Fabric, Textile. L. F. Orcutt. No. 55,526; June 22; v. 275; p. 778.
Fabric, Textile. L. F. Orcutt. Nos. 56,187–9; Aug. 24; v. 277; p. 747.
Fabric, Textile. R. L. Reinhart. Nos. 55,324–6; May 25; v. 274; p. 785.
Fabric, Textile. R. L. Reinhart. Nos. 55,530–1; June 22; v. 275; p. 779.
Fabric, Textile. W. G. Reith. Nos. 55,320–3; May 25; pp. 784–5.
Fabric, Textile. W. G. Reith. No. 55,532; June 22; v. 275; p. 779.
Fabric, Textile. C. H. Ritscher. No. 54,562; Mar. 2; v. 272; p. 141.
Fan. J. P. Hotz. No. 54,419; Feb. 10; v. 271; p. 308.
Fan. C. M. Levett. No. 55,389; June 1; v. 275; p. 164.
Fan and lamp, Combined electric. T. E. Clark. No. 54,832; Apr. 13; v. 273; p. 343.
Fan, Hand or toilet. I. H. Lesem; No. 55,062; May 4; v. 274; p. 144.
Fastener. W. A. Schuler. No. 54,961; Apr. 20; v. 273; p. 582.
Faucet, Self-closing. H. Jarvis. No. 54,847; Apr. 13; v. 273; p. 346.
Feeding-cup for rabbits. P. E. Miller. No. 56,761; Dec. 14; v. 281; p. 372.
Figurette. M. L. Russell. No. 55,959; Aug. 3; v. 277; p. 141.
Filter, Light-. B. Irwin. No. 55,793; July 13; v. 276; p. 367.
Finger-ring. J. H. Sharp. No. 56,388; Oct. 5; v. 279; p. 143.
Finger-ring or article of similar nature. F. Zoldo. No. 56,402; Oct. 5; v. 279; p. 146.
Fish-bait. J. W. Dickens. No. 54,391; Feb. 10; v. 271; p. 303.
Flag. J. C. M. Garnett. No. 55,034; May 4; v. 274; p. 139.
Flag. W. F. Ivy. No. 55,275; May 25; v. 274; p. 777.
Flag. H. H. Johnson. No. 54,750; Mar. 23; v. 272; p. 690.
Flag. M. O'Connell. No. 56,376; Oct. 5; v. 279; p. 141.
Flag. G. Schuhmann. No. 54,689; Mar. 9; v. 272; p. 340.
Flag. J. C. Young. No. 55,836; July 13; v. 276; p. 375.
Flag, banner, or the like. C. Litzenberger. No. 54,639; Mar. 9; v. 272; p. 333.
Flag, banner, pennant, emblem, or similar article. A. R. W. Bassett. No. 55,235; May 25; v. 274; p. 770.
Flag, Christian-service. A. G. Trimble. No. 54,972; Apr. 20; v. 273; p. 584.
Flag-holder. H. K. Lorentzen. No. 54,937; Apr. 20; v. 273; p. 578.
Flag, Naval service-. J. J. McKee. No. 55,069; May 4; v. 274; p. 146.
Flag or banner. I. Rudolph. No. 56,384; Oct. 5; v. 279; p. 142.
Flag or similar article, Service-. A. A. Huebsch. No. 55,273; May 25; v. 274; p. 777.
Flag, pennant, sign, emblem, &c. T. R. Farley. No. 54,537; Mar. 2; v. 272; p. 137.
Flag, pennant, sign, emblem, &c. A. Le Fevre. No. 54,552; Mar. 2; v. 272; p. 139.
Flag, pennant, sign, emblem, or similar article. P. S. Gill. No. 54,737; Mar. 23; v. 272; p. 688.
Flag, pennant, sign, emblem, or article of a similar nature. W. H. McMasters. No. 55,207; May 25; v. 274; p. 781.
Flag, Superservice-. W. J. Smith. No. 55,537; June 22; v. 275; p. 780.
Flash-lights, Adapter-head for. R. M. Eaton. No. 55,253; May 25; v. 274; p. 773.
Flask, Dental. T. G. Lewis. No. 54,425; Feb. 10; v. 271; p. 309.
Flatiron, Internally-heated. H. G. Heckmann. No. 55,791; July 13; v. 276; p. 366.

Digitized by Google

Alphabetical list of designs—Continued.

Floor-cloth. F. Cartwright. Nos. 56,494–521; Nov. 2; v. 280; pp. 142–6.
Floor-covering, Sheet. A. C. Heyman. No. 55,514; June 22; v. 275; p. 776.
Flower-holder. M. Clayes. No. 54,379; Feb. 10; v. 271; p. 301.
Food-masher. B. F. Crisenberry. No. 56,119; Aug. 24; v. 277; p. 734.
Foot rest and warmer. J. G. Johnson. No. 55,616; July 6; v. 276; p. 161.
Footrest. F. M. Noonan. No. 54,670; Mar. 9; v. 272; p. 337.
Fork. F. E. Burchfield. No. 55,589; July 6; v. 276; p. 156.
Fork, Meat-mixing. M. L. Stegmaier. No. 54,473; Feb. 10; v. 271; p. 317.
Fountain bowl, Drinking-. H. W. Taylor. No. 55,828; July 13; v. 276; p. 373.
Fountain, Sanitary. T. Lloyd. No. 55,063; May 4; v. 274; p. 144.
Furniture and caskets and interior and exterior decorations, Panel for. A. M. Holstein. No. 54,417; Feb. 10; v. 271; p. 307.
Furniture, casket, interior or exterior decoration, Overlay ornament for. A. M. Holstein. No. 54,418; Feb. 10; v. 271; p. 308.
Furniture-leg. H. E. De Vries and C. C. Kusterer. No. 56,053; Aug. 10; v. 277; p. 344.
Gage and regulator-casing, Combined pressure-. G. A. Baudet. No. 55,500; June 22; v. 275; p. 778.
Gage-block. B. H. Blood. No. 54,584; Mar. 9; v. 272; p. 324.
Game. J. Haro. No. 54,915; Apr. 20; v. 273; p. 574.
Game. C. R. Teats. No. 55,401; June 1; v. 275; p. 166.
Game apparatus. D. E. Plumlee. No. 56,833; Dec. 28; v. 281; p. 750.
Game apparatus. J. Sharpe. No. 55,092; May 4; v. 274; p. 150.
Game-board. F. R. Addis. No. 55,544; June 29; v. 275; p. 976.
Game-board. F. R. Addis. No. 56,575; Nov. 16; v. 280; p. 552.
Game-board. E. S. Aitken. No. 55,404; June 8; v. 275; p. 364.
Game-board. E. Carraine. No. 54,597; Mar. 9; v. 272; p. 326.
Game-board. B. H. Davis. No. 54,387; Feb. 10; v. 271; p. 303.
Game-board. J. Ecker and E. Goldberg. No. 55,418; June 8; v. 275; p. 366.
Game-board. M. J. Ewen, Jr. No. 56,420; Oct. 26; v. 279; p. 686.
Game-board B. E. Gagnon. No. 55,858; July 20; v. 276; p. 552.
Game-board. J. Guerin. No. 56,150; Aug. 24; v. 277; p. 740.
Game-board. H. McIntyre and W. J. Wakefield. No. 55,482; June 15; v. 275; p. 571.
Game-board. M. Peterson. No. 56,080; Aug. 10; v. 277; p. 349.
Game-board. E. J. Scott. No. 56,200; Aug. 24; v. 277; p. 749.
Game-board. W. K. B. Swint. No. 56,548; Nov. 2; v. 280; p. 150.
Game-board. J. F. Toohey. No. 54,877; Apr. 13; v. 273; p. 351.
Game-board. G. A. Wraith. No. 55,581; June 29; v. 275; p. 982.
Game, Finger-rest and pointer for a. J. Vanderkamp. No. 56,085; Aug. 10; v. 277; p. 350.
Garment-hanger. H. E. Schneider. No. 54,960; Apr. 20; v. 273; p. 582.
Garment, Outer. N. V. Armstrong. No. 56,331; Oct. 5; v. 279; p. 133.
Garter. J. A. Stih. No. 55,826; July 13; v. 276; p. 373.
Gas-burner. A. J. Johnson. No. 54,848; Apr. 13; v. 273; p. 346.
Gas-burner. H. E. Kerr. No. 54,851; Apr. 13; v. 273; p. 346.
Gas-burner. H. E. Kerr and W. J. Barber. No. 54,852; Apr. 13; v. 273; p. 347.
Gas heat-burner. J. J. Kenney. No. 56,618; Nov. 16; v. 280; p. 559.
Gas-heater. J. H. Grayson. No. 56,357; Oct. 5; v. 279; p. 137.
Gas-heater. L. Lebau. No. 55,388; June 1; v. 275; p. 164.
Gas-heater. C. V. Roberts. No. 56,381; Oct. 5; v. 279; p. 142.
Gear base, Reduction-. M. A. Harris. No. 55,467; June 15; v. 275; p. 569.
Gem-mounting. C. T. Wittstein. No. 54,976; Apr. 20; v. 273; p. 585.
Gem-setting. W. Fischer. No. 55,260; May 25; v. 274; p. 774.
Gem-setting. A. Suderov. No. 56,391; Oct. 5; v. 279; p. 144.
Gems in jewelry, Plate for mounting. F. H. Felger. No. 55,597; July 6; v. 276; p. 158.
Glass cover for a dish. H. S. Evans. No. 56,228; Aug. 31; v. 277; p. 938.
Glass goblet. J. O. Balda. Nos. 55,355–9; June 1; v. 275; pp. 157–8.
Glass knife. E. S. Pease. No. 56,764; Dec. 14; v. 281; p. 373.
Glass, Light cover. H. P. Gage and E. Pascucci. No. 55,777; July 13; v. 276; p. 364.
Glass jar. A. Gohl. No. 54,614; Mar. 9; v. 272; p. 328.
Glass, Sheet-. E. G. Johanson. No. 54,925; Apr. 20; v. 273; p. 576.
Glass tile. F. A. Dixon. No 56,344; Oct 5; v. 279; p. 135.
Glasses and spectacles, Lens for. A. D. Gardner. No. 54,405; Feb. 10; v. 271; p. 306.
Glassware article. P. Ebeling. No. 55,759; July 13; v. 276; p. 360.
Glassware article. C. P. Sollmann. No. 54,967; Apr. 20; v. 273; p. 588.
Glove. S. Benjamin. No. 54,578; Mar. 9; v. 272; p. 323.
Glove. E. Perrone. No. 54,675; Mar. 9; v. 272; p. 338.
Glove. W. M. Smith. No. 54,785; Mar. 23; v. 272; p. 696.
Glove. H. A. Taylor. No. 55,339; May 25; v. 274; v. 787.
Goblet. A. F. Saunders. No. 54,866; Apr. 13; v. 273; p. 349.
Goggles. F. Willson. No. 35,104; May 4; v. 274; p. 152.
Golf-club. W. F. Reach. No. 55,644; July 6; v. 276; p. 167.
Golf-club head. A. A. Kraeuter. No. 55,278; May 25; v. 274; p. 777.
Golf-club head, Striking-face for. G. W. Mattern. No. 55,867; July 20; v. 276; p. 555.
Grate, Fireplace-. J. F. Adams. No. 55,228; May 25; v. 274; p. 769.
Guide device. W. E. McMullan and H. J. Hickey. No. 55,631; July 6; v. 276; p. 164.
Guide-post. H. J. Hickey and W. E. McMullan. No. 55,859; July 20; v. 276; p. 552.
Gutter-screen. R. H. Haven. No. 54,617; Mar. 9; v. 272; p. 329.
Hair-clippers, Handle for. W. J. Van Osdel. No. 54,861; Apr. 16; v. 273; p. 348.
Hair-cutting-machine frame. S. M. Coffman. No. 56,223; Aug. 31; v. 277; p. 937.
Hairpin. W. A. Heap. No. 56,557; Nov. 9; v. 280; p. 355.
Hairpin. A. Janiecz. No. 55,052; May 4; v. 274; p. 142.
Hairpin. A. D. E. Sessions. No. 55,821; July 13; v. 276; p. 372.
Hammer. E. Clay. No. 56,553; Nov. 9; v. 280; p. 354.
Hammer, can-punch, and ice-pick combination. A. H. Crampton. No. 55,592; July 6; v. 276; p. 157.
Hamper, Clothes-. I. E. Loewenberg. No. 55,289; May 25; v. 274; p. 779.
Handbag. E. Carraine. No. 55,451; June 15; v. 275; p. 566.
Handbag. J. F. Wright. No. 56,261; Sept. 14; v. 278; p. 813.
Handkerchief. C. Kleve. No. 56,816; Dec. 28; v. 281; p. 747.
Handle. T. R. Cook. No. 56,646; Nov. 23; v. 280; p. 750.
Handle. P. H. Kelly. No. 54,421; Feb. 10; v. 271; p. 308.
Handle for a knife-cleaver or similar article. A. J. Rowland. No. 54,771; Mar. 23; v. 272; p. 693.
Handle for a spoon, fork, or similar article. S. V. James. Nos. 54,627–9; Mar. 9; v. 272; p. 331.
Hanger and radius-rod bracket. Combination spring-. F. P. Sawders and J. G. Murray. No. 56,033; Aug. 10; v. 277; p. 341.
Harp. D. Campbell. No. 54,724; Mar. 23; v. 272; p. 685.
Harp. D. Campbell. Nos. 54,892–3; Apr. 20; v. 273; pp. 570–1.
Hat. A. J. Ziv. No. 55,837; July 13; v. 276; p. 375.
Hatband. J. H. de Sibour. No. 54,812; Mar. 30; v. 272; p. 888.
Hatband. J. H. de Sibour. No. 56,120; Aug. 24; v. 277; p. 734.
Hatpin and point-protector, Combined. T. Delikat. No. 55,755; July 13; v. 276; p. 359.
Hatpin, scarfpin, cuff-link, tie-clip, ring, fob, pendant for neck-chains, &c. F. Kaupmann, Jr. No. 55,566; June 29; v. 275; p. 979.
Headlight attachment. E. Von Vargyas. Nos. 54,486–7; Feb. 10; v. 271; p. 319.
Headlight-bracket. J. L. P. Landry. No. 54,935; Apr. 20; v. 273; p. 578.
Headlight-bracket. J. L. P. Landry. No. 55,182; May 18; v. 274; p. 557.
Headlight-lens. S. Hipkins. No. 54,504; Feb. 17; v. 271; p. 501.
Headlight-lens. G. Johnson. No. 55,470; June 15; v. 275; p. 569.
Headlight replacement unit. H. W. Brown. No. 55,243; May 25; v. 274; p. 771.
Heat-insulated container. E. S. Johnson. No. 54,631; Mar. 9; v. 272; p. 331.
Heat-insulated receptacle. I. L. French. No. 56,061; Aug. 10; v. 277; p. 346.
Heat-treating box. W. H. Smith. No. 54,696; Mar. 9; v. 272; p. 341.
Heater, Electric. F. C. Boyd. No. 54,887; Apr. 20; v. 273; p. 570.
Heater, Electric. E. N. Brown. Nos. 54,889–90; Apr. 20; v. 273; p. 570.

Digitized by Google

Alphabetical list of designs—Continued.

Heater, Electric. W. W. Hale. No. 55,789; July 13; v. 276; p. 366.
Heater, Electric. S. M. Knapp. No. 54,930; Apr. 20; v. 273; p. 577.
Heater, Electric. M. H. Shoenberg and G. J. Henry. No. 55,336; May 25; v. 274; p. 787.
Heater, Electrical. E. C. Floriot and G. F. Cody. No. 56,743; Dec. 14; v. 281; p. 369.
Heater, Gas-. J. H. Grayson. No. 55,168; May 18; v. 274; p. 555.
Heater, Stand-base of an electric. R. G. Ledig. No. 56,009; Aug. 10; v. 277; p. 337.
Heel. H. Hess. No. 55,127; May 11; v. 274; p. 359.
Heel. E. L. McKimm. No. 56,726; Dec. 7; v. 281; p. 165.
Heel. E. L. McKimm. No. 56,826; Dec. 28; v. 281; p. 749.
Heel. J. H. Stedman. No. 56,389; Oct 5; v. 279; p. 143.
Heel for a boot, shoe, or similar article. O. G. Lyon. No. 54,938; Apr. 20; v. 273; p. 578.
Heel-plate. G. Becherer. No. 55,971; Aug. 10; v. 277; p. 330.
Heel protector, Shoe-. I. M. Snyder. No. 56,034; Aug. 10; v. 277; p. 341.
Heel-rest. E. E. Green. No. 56,809; Dec. 28; v. 281; p. 746.
Heel-rest, Vehicle-operator's. W. A. Honeyman. No. 56,234; Aug. 31; v. 277; p. 939.
Heel, Rubber. S. B. Frederick. No. 56,000; Aug. 10; v. 277; p. 335.
Heel, Rubber. R. Harris. No. 54,550; Mar. 2; v. 272; p. 139.
Heel, Rubber. T. Nicar. No. 54,859; Apr. 13; v. 273; p. 348.
Heel, Rubber. G. C. Wood. No 56,398; Oct 5; v. 279; p. 145.
Heel, Shoe-. W. E. Durham. No. 55,158; May 18; v. 274; p. 553.
Heel, Shoe-. W. Melville. No. 55,398; June 1; v. 275; p. 164.
Highway advertising and directing device. F. A. Horn. No. 55,947; Aug. 3; v. 277; p. 139.
Highway-guide device. W. E. McMullan and H. J. Hickey. No. 56,102; Aug. 17; v. 277; p. 549.
Hook. K. Okamuro. No. 55,483; June 15; v. 275; p. 572.
Hose-supporting loop. D. H. Warner. No. 56,042; Aug. 10; v. 277; p. 343.
Hosiery-drying form. J. O. von Stetten. No. 55,733; July 6; v. 276; p. 180.
Humidor. D. M. Wygold. No. 55,446; June 8; v. 275; p. 371.
Ice-bag ring. F. Lohl. No. 54,553; Mar. 2; v. 272; p. 140.
Ice-cream cone. I. R. Allen. No. 56,576; Nov. 16; v. 280; p. 552.
Ice-cream cone. A. McLaren. Nos. 54,439–40; Feb. 10; v. 271; p. 311.
Ice-cream cone. S. E. Winder. No. 56,488; Oct. 26; v. 279; p. 698.
Ice-cream cone or similar article. J. B. Meltz. No. 55,868; July 20; v. 276; p. 554.
Ice-cream dish. A. F. Saunders. No. 54,867; Apr. 13; v. 273; p. 349.
Ice-cream freezer, Casing for an. J. M. Larson. No. 56,561; Nov. 9; v. 280; p. 355.
Ice-cream scoop. V. Talbot. No. 55,215; May 18; v. 274; p. 563.
Ice-cream-service container, Individual. J. P. Reily. No. 54,956; Apr. 20; v. 273; p. 581.
Ignition-distributer. A. A. Kent. No. 56,748; Dec. 14; v. 281; p. 369.
Illusion device. V. N. Simon. No. 55,960; Aug. 3; v. 277; p. 141.
Image. W. S. Sidé-Livermore. No. 56,480; Oct. 26; v. 279; p. 697.
Image or statuette. G. T. Herrick. No. 56,363; Oct. 5; v. 279; p. 139.
Image or statuette. G. T. Herrick. No. 56,612; Nov. 16; v. 280; p. 558.
Image, statuette, configuration of a bar of candy, or similar article. P. Sisco. Nos. 54,782–3; Mar. 23; v. 272; p. 695.
Incense-burner. A. F. Desmond. Nos. 56,342–3; Oct. 5; v. 279; p. 135.
Incense-burner. J. A. Helman. Nos. 56,361–2; Oct. 5; v. 279; p. 138.
Industrial seats, Spider-bracket for. E. W. Allen. No. 56,407; Oct. 26; v. 279; p. 684.
Inhaler. J. H. Kenneth and F. N. Waffle. No. 56,560; Nov. 9; v. 280; p. 355.
Inhaler. E. H. Metcalf. No. 54,987; Apr. 27; v. 273; p. 765.
Inkstand. F. M. Ashley. No. 54,824; Apr. 13; v. 273; p. 341.
Inkstand. J. Erdoes and E. Sas. No. 55,851; July 20; v. 276; p. 551.
Inkstand. F. A. Fuller. No. 55,857; July 20; v. 276; p. 552.
Inkstand. J. T. Riley. Nos. 55,646–7; July 6; v. 276; p. 167.
Inkstand. G. Thomas. No. 55,898; July 20; v. 276; p. 559.
Inkstand. F. A. Weeks. Nos. 55,967–8; Aug. 3; v. 277; p. 143.
Inkstand-cover. H. Haupt. No. 55,610; July 6; v. 276; p. 160.
Inkstand-cover. F. A. Weeks. No. 55,969; Aug. 3; v. 277; p. 143.
Insignia, badge, or emblem. A. Bernstein. No. 56,337; Oct. 5; v. 279; p. 134.
Insignia or badge. H. R. Bastedo. No. 56,799; Dec. 28; v. 281; p. 744.
Insulator. A. O. Austin. No. 56,262; Sept. 14; v. 278; p. 313.
Insulator-porcelain for electric ovens. F. W. Moffat. No. 55,071; May 4; v. 274; p. 146.
Jack, Lifting-. E. E. Arnold. Nos. 55,015–6; May 4; v. 274; p. 136–7.
Jack, Lifting-. E. E. Arnold. Nos. 55,232–3; May 25; v. 274; p. 770.
Jack, Lifting-. J. J. Mizer and V. Jakob. No. 54,442; Feb. 10; v. 271; p. 312.
Jack, Lifting-. F. S. Rode. No. 54,680; Mar. 9; v. 272; p. 339.
Jar. C. D. Huyler. No. 56,252; Sept. 7; v. 278; p. 136.
Jar. J. S. Rinschler, Jr. No. 56,710; Nov. 30; v. 280; p. 967.
Jar, Casing for a vacuum-insulated. G. P. Altenberg. No. 54,884; Apr. 20; v. 273; p. 569
Jar, Compartment-. W. A. Reaper. No. 55,319; May 25; v. 274; p. 784.
Jewel-setting. J. W. Mayer. No. 55,952; Aug. 3; v. 277; p. 140.
Jewelry, Article of. W. D. Niederer. No. 54,448; Feb. 10; v. 271; p. 313.
Jewelry-holder. P. Viggiano. No. 56,314; Sept. 14; v. 278; p. 322.
Jewelry—namely, ring-top, pendant, pair of cuff buttons, pin, or similar article. C. J. and S. M. Grossman. No. 55,609; July 6; v. 276; p. 160.
Kazoo. L. V. Aronson. No. 56,114; Aug. 24; v. 277; p. 733.
Kettle, Berlin. W. Luttringhaus. No. 55,480; June 15; v. 275; p. 571.
Kettle, Preserving-. W. Luttringhaus. No. 55,479; June 15; v. 275; p. 571.
Key-ring. L. J. Berry and H. Smith. No. 56,116; Aug. 24; v. 277; p. 734.
Key-ring holder. A. F. Haber. No. 56,281; Sept. 14; v. 276; p. 316.
Kitchenette. K. M. Murchison. No. 54,446; Feb. 10; v. 271; p. 312.
Knife. W. Neldner. No. 54,669; Mar. 9; v. 272; p. 337.
Knife. S. Satzewich. No. 54,686; Mar. 9; v. 272; p. 340.
Knife. J. F. Zaloudek. No. 54,808; Mar. 23; v. 272; p. 700.
Knife and bottle-opener, Combined pocket-. J. P. Haddix. No. 55,123; May 11; v. 274; p. 358.
Knife and server, Combined pastry. J. H. Lickert. No. 56,669; Nov. 23; v. 280; p. 755.
Knife, Arcing-. J. H. Lickert. No. 56,013; Aug. 10; v. 277; p. 337.
Knife, Bread-. J. H. Lickert. No. 56,012; Aug. 10; v. 277; p. 337.
Knife, Broad. J. J. Waters. No. 56,574; Nov. 9; v. 280; p. 358.
Knife, Garnishing-. J. H. Lickert. No. 56,562; Nov. 9; v. 280; p. 356.
Knife-handle. L. P. Huey. No. 56,524; Nov. 2; v. 280; p. 147.
Knife holder or similar article, Fruit-. V. Gaertner. No. 56,229; Aug. 31; v. 277; p. 938.
Knife, Household. J. H. Lickert. No. 56,011; Aug. 10; v. 277; p. 337.
Knife-rest. J. R. Huthmaker and W. R. Leas. No. 55,516; June 22; v. 275; p. 776.
Knife-sharpener. T. F. Curley. No. 56,227; Aug. 31; v. 277; p. 938.
Knitting-needle. A. G. Schoettel. No. 54,688; Mar. 9; v. 272; p. 340.
Label. E. R. Allard. No. 55,113; May 11; v. 274; p. 357.
Label for poison-bottles. M. E. De Richelieu and A. D. Wagner. No. 55,985; Aug. 10; v. 277; p. 332.
Lace. H. Baechtold. No. 56,332; Oct. 5; v. 279; p. 133.
Lace. E. A. Davis. No. 54,816; Apr. 6; v. 273; p. 135.
Lace. E. A. Davis. No. 55,505; June 22; v. 275; p. 774.
Lace. E. A. Davis. No. 56,418; Oct. 26; v. 279; p. 686.
Lace. E. A. Davis. No. 56,802; Dec. 28; v. 281; p. 745.
Lace. P. Eberhart. No. 55,030; May 4; v. 274; p. 139.
Lace. W. K. Kallman. Nos. 54,817–20; Apr. 6; v. 273; pp. 135–6.
Lace. T. O. Kümalehto. No. 55,518; June 22; v. 275. p. 777.
Lace. T. O. Kümalehto. No. 56,180; Aug. 24; v. 277; p. 746.
Lace. F. Meyer. Nos. 54,821–2; Apr. 6; v. 273; p. 136.
Lace. F. Meyer. No. 55,522; June 22; v. 275; p. 777.
Lace. F. Meyer. Nos. 56,827–31; Dec. 28; v. 281; pp. 749–50.
Lace. M. Seidel. Nos. 55,575–6; June 29; v. 275; p. 981.

Digitized by Google

Lace. M. Seidel. Nos. 55,712–19; July 6; v. 276; pp. 176–8.
Lace. A. G. Zographos. Nos. 56,399–401; Oct. 5; v. 279; pp. 145–6.
Lace and embroidery. W. Schmid. Nos. 55,651–711; July 6; v. 276; pp. 168–76.
Lace collar, Embroidered. H. Schwarber. Nos. 56,198–9; Aug. 24; v. 277; p. 749.
Lace, Embroidered. H. Schwarber. No. 56,240; Aug. 31; v. 277; p. 940.
Lace for trimming purposes. W. H. Smith. No. 55,095; May 4; v. 274; p. 150.
Lace-trimming. S. N. Goodman. No. 56,601; Nov. 16; v. 280; p. 557.
Lacing-tip. E. Fuller. No. 55,375; June 1; v. 275; p. 161.
Ladder. M. W. Reeves. No. 56,475; Oct. 26; v. 279; p. 696.
Ladle and print, Combined butter. G. Price. No. 56,028; Aug. 10; v. 277; p. 340.
Lamp. C. E. Godley. No. 56,098; Aug. 17; v. 277; p. 548.
Lamp. W. Lumley. No. 56,014; Aug. 10; v. 277; p. 338.
Lamp. L. J. Ripich. No. 54,865; Apr. 13; v. 273; p. 349.
Lamp. C. L. Tippett. No. 55,829; July 13; v. 276; p. 373.
Lamp. T. Wingert. No. 56,843; Dec. 28; v. 281; p. 751.
Lamp. H. H. Wolter. No. 55,919; July 20; v. 276; p. 562.
Lamp. H. H. Wolter. Nos. 55,921–4; July 20; v. 276 p. 568.
Lamp and fan, Electric. H. Diederich. No. 54,392; Feb. 10; v. 271; p. 303.
Lamp, Auto tail-. W. Berk. No. 55,021; May 4; v. 274; p. 137.
Lamp, Battery hand-. A. P. Paine. No. 55,571; June 29; v 275; p. 980.
Lamp-box. S. Smiglelski. No. 55,093; May 4; v. 274; p. 150.
Lamp-bracket. F. G. Whittington. No. 56,792; Dec. 14; v. 281; p. 378.
Lamp bulb, Electric-. O. W. Cook. No. 55,248; May 25; v. 274; p. 772.
Lamp-case. W. Ghiglieri. No. 56,746; Dec. 14; v. 281; p. 369.
Lamp-chimney. J Beiswanger. No. 54,577; Mar. 9; v. 272; p. 322.
Lamp cleaner, Carbid-. W. G. Luttinger. No. 55,290; May 25; v. 274; p. 779.
Lamp, Electric. W. S. MacLewee. No. 54,432; Feb. 10; v. 271; p. 310.
Lamp, Electric. A. J. D. Ohm. Nos. 55,430–2; June 8; v. 275; p. 368.
Lamp, Electric. A. J. D. Ohm. No. 55,954; Aug. 3; v. 277; p. 140.
Lamp, Electric. R. Swimmer. No. 54,701; Mar. 9; v. 272; p. 342.
Lamp, Electric bridge-. F. A. Frerichs. Nos. 56,127–8 Aug. 24; v. 277; p. 736.
Lamp, Electric floor-. W. C. Brisse. No. 54,721; Mar. 23; v. 272; p. 685.
Lamp, Electric floor-. F. A. Frerichs. No. 56,126; Aug. 24; v. 277; p. 736.
Lamp, Electric floor-. F. A. Frerichs. No. 56,249; Sept. 7; v. 278; p. 186.
Lamp, Electric table-. F. A. Frerichs. No. 56,129; Aug. 24; v. 277; p. 736.
Lamp-fixture. H. A. Holloway. Nos. 56,162–3; Aug. 24; v. 277; p. 743.
Lamp-fixture. N. Macbeth. Nos. 54,429–31; Feb. 10; v. 271; pp. 309–10.
Lamp-front frame. W. F. Anklam. No. 54,823; Apr. 13; v. 273; p. 341.
Lamp-globe band. J. W. Gosling. No. 56,062; Aug. 10; v. 277; p. 346.
Lamp-globe canopy. J. W. Gosling. Nos. 55,165–7; May 18; v. 274; p. 554.
Lamp-globe canopy. J. A. O'Neil. No. 55,303; May 25; v. 274; p. 781.
Lamp handle and supporting-bracket, Electric-. R. E. Williams. No. 55,349; May 25; v. 274; p. 789.
Lamp-globe, Inclosed. W. F. M. Hawe. No. 56,431; Oct. 26; v. 279; p. 688.
Lamp, Hanging. J. B. Lohr. No. 56,447; Oct. 26; v. 279; p. 69.
Lamp, Miner's. H. T. Sperry. Nos. 54,786–7; Mar. 23; v. 272; p. 696.
Lamp or similar article, Rim for a vehicle-. C. D. Ryder. Nos. 56,256–8; Sept. 7; v. 278; pp. 137–8.
Lamp, Pedestal-. J. B. Lohr. No. 56,448; Oct. 26; v. 279; p. 691.
Lamp, Piano-. A. P. Gillen. No. 54,613; Mar. 9; v. 272; p. 328.
Lamp, Portable. J. T. Robb. No. 55,818; July 13; v. 276; p. 371.
Lamp-shade. J. Abner. No. 56,405; Oct. 26; v. 279; p. 683.
Lamp-shade. W. F. M. Hawe. No. 56,430; Oct. 26; v. 279; p. 688.
Lamp-shade. A. S. Macdonald and F. Booth. No. 54,642; Mar. 9; v. 272; p. 334.
Lamp-shade. R. V. Owen. No. 55,195; May 18; v. 274; p. 559.
Lamp shade, Electric-. W. S. MacLewee. No. 55,291; May 25; v. 274; p. 780.
Lamp shade or globe. J. Bennici. No. 56,689; Nov. 30; v. 280; p. 963.
Lamp, Signal-. C. Strathmann. No. 54,789; Mar. 23; v. 272; p. 696.
Lamp-socket cover. E. H. Weber. No. 54,713; Mar. 9; v. 272; p. 344.
Lamp-stand. H. C. Atherly. No. 55,737; July 13; v. 276; p. 356.
Lamp-stand. H. C. and J. E. Atherley. No. 56,798; Dec. 28; v. 281; p. 744.
Lamp-stand. M. Farkas. No. 56,421; Oct. 26; v. 279; p. 686.
Lamp-stand, Combination. L. J. Ripich. No. 55,827; May 25; v. 274; p. 785.
Lamp, Therapeutic. R. J. Jimmerson. No. 54,630; Mar. 9; v. 272; p. 331.
Lamps, Cluster-top for. M. Oslek. No. 56,677; Nov. 23; v. 280; p. 757.
Lamps, Glass cover-plate for headlight. C. J. Newburgh. No. 54,858; Apr. 13; v. 273; p. 348.
Lamps, Light diffusing and projecting attachment for automotive. O. M. Otte. Nos. 55,309–11; May 25; v. 274; pp. 782–3.
Lather-cup. L. A. Amis. No. 56,601; Nov. 16; v. 280; p. 553.
Leather, paper, &c. G. Wise. No. 56,396; Oct. 5; v. 279; p. 145.
Legging. F. G. Chamberlin. No. 54,896; Apr. 20; v. 273; p. 571.
Lens. A. G. Miller and C. McMullen. No. 55,191; May 18; v. 274; p. 559.
Lens, Automobile-. A. Senger. No. 56,259; Sept. 7; v. 278; p. 138.
Lens, Automobile-headlight. W. H. Sturgeon. Nos. 55,337–8; May 25; v. 274; p. 787.
Lens-clip or similar article. F. A. Stevens. No. 56,484; Oct. 26; v. 279; p. 698.
Letter-sheet. J. J. Walsh. No. 54,710; Mar. 9; v. 272; p. 344.
Lever for a sprinkler-head or similar article, Retainer-. J. R. Hamilton. No. 55,038; May 4; v. 274; p. 140.
Light. O. C. Newton. No. 54,952; Apr. 20; v. 273; p. 581.
Light, Casing for a stage flood-. R. McCargar. No. 55,189; May 18; v. 274; p. 558.
Light fixtures, Head-ring for electric-. H. Shlamowitz. No. 55,400; June 1; v. 275; p. 166.
Lighting-fixture. C. A. Duepner. No. 56,742; Dec. 14; v. 281; p. 368.
Lighting-fixture. H. E. Gleason. No. 56,137; Aug. 24; v. 277; p. 738.
Lighting-fixture. A. F. B. Harraden. No. 56,154; Aug. 24; v. 277; p. 741.
Lighting-fixture arm. S. Kostszewski. No. 56,253; Sept. 7; v. 278; p. 137.
Lighting-fixture. E. P. Mitchell. No. 56,451; Oct. 26; v. 279; p. 692.
Lighting-fixture. R. V. Owen. Nos. 54,510–12; Feb. 17; v. 271; pp. 502–3.
Lighting-fixture. H. Plaut. No. 56,472; Oct. 26; v. 279; p. 695.
Lighting-fixture. G. P. Robinson. No. 56,081; Aug. 10; v. 277; p. 349.
Lighting-fixture. N. B. Rogers. No. 56,031; Aug. 10; v. 277; p. 340.
Lighting-fixture. F. Schwartz. No. 54,715; Mar. 16; v. 272; p. 509.
Lighting-fixture. S. Silverstein. No. 56,481; Oct. 26; v. 279; p. 481.
Lighting-fixture. A. Ullman. No. 54,704; Mar. 9; v. 272; p. 343.
Lighting-fixture. A. Ullman. No. 55,341; May 25; v. 274; p. 788.
Lighting-fixture arm. S. Kostszewski. No. 55,948; Aug. 3; v. 277; p. 139.
Lighting-fixture arm. A. Miller. No. 56,076; Aug. 10; v. 277; p. 348.
Lighting-fixture arm. S. Miller. Nos. 56,077–8; Aug. 10; v. 277; pp. 348–9.
Lighting-fixture arm. B. Newland. 56,465; Oct. 26; v. 279; p. 694.
Lighting-fixture arm. B. Newland. Nos. 56,528–9; Nov. 2; v. 280; p. 148.
Lighting-fixture arm. G. V. Strahan. No. 54,476; Feb. 10; v. 271; p. 317.
Lighting-fixture arm. G. Westphal. No. 54,881; Apr. 13; v. 273; p. 351.
Lighting-fixture, Arm for. G. V. Strahan and F. W. Mathieu. Nos. 56,839–41; Dec. 28; v. 281; p. 751.
Lighting-fixture body. S. Kostszewski. No. 56,069; Aug. 10; v. 277; p. 347.
Lighting-fixture bowl. F. S. Crowell. No. 55,249; May 25; v. 274; p. 772.
Lighting-fixture canopy. H. Cohn. No. 55,598; Aug. 3; v. 277; p. 138.

Digitized by Google

Alphabetical list of designs—Continued.

Lighting-fixture canopy. G. V. Strahan. No. 56,777; Dec. 14; v. 281; p. 375.
Lighting-fixture canopy. G. V. Strahan. Nos. 56,779–80; Dec. 14; v. 281; p. 375.
Lighting-fixture canopy. G. V. Strahan and F. W. Mathieu. No. 56,781; Dec. 14; v. 281; p. 376.
Lighting-fixture ceiling-plate. G. V. Strahan. No. 54,474; Feb. 10; v. 271; p. 317.
Lighting-fixture decoration. N. Lipsky. Nos. 56,751–9; Dec. 14; v. 281; pp. 370–2.
Lighting-fixture globe. F. W. Mathieu. No. 56,074; Aug. 10; v. 277; p. 348.
Lighting-fixture holder. F. W. Mathieu. No. 55,075; Aug. 10; v. 277; p. 348.
Lighting-fixture oval plate. H. Cohn. No. 56,050; Aug. 10; v. 277; p. 344.
Lighting-fixture part, Arm comprising a. H. Cohn. No. 55,937; Aug. 3; v. 277; p. 137.
Lighting-fixture plate. B. Newland. No. 56,464; Oct. 26; v. 279; p. 694.
Lighting-fixture plate. F. Schwartz. Nos. 55,859–90; July 20; v. 276; p. 557.
Lighting-fixture plate. F. Schwartz. No. 55,899; July 20; v. 276; p. 559.
Lighting-fixture plate. G. Westphal. No. 55,847; May 25; v. 274; p. 789.
Lighting-fixture, Sconce for a. G. J. Vester. No. 55,403; June 1; v. 275; p. 166.
Lighting-fixture shower-plate. H. Cohn. No. 56,051; Aug. 10; v. 277; p. 344.
Lighting-fixture socket-cover. G. V. Strahan and F. W. Mathieu. No. 56,782; Dec. 14; v. 281; p. 376.
Lighting-fixture, Socket-cover for a. G. V. Strahan. No. 56,778; Dec. 14; v. 281; p. 375.
Lighting-fixture spindle. S. Kostszewski. No. 56,068; Aug. 10; v. 277; p. 347.
Lighting-fixture wall-bracket. G. V. Strahan. No. 54,475; Feb. 10; v. 271; p. 317.
Lighting-fixture wall-bracket. G. V. Strahan. Nos. 54,477–8; Feb. 10; v. 271; p. 318.
Lighting-fixture, Wall-bracket for a. G. V. Strahan and F. W. Mathieu. Nos. 56,784–5; Dec. 14; v. 281; p. 376.
Lighting-fixture, Wall-bracket for a. G. V. Strahan and F. W. Mathieu. No. 56,838; Dec. 28; v. 281; p. 751.
Lighting-fixture wall-plate. F. S. Crowell. No. 56,052; Aug. 10; v. 277; p. 344.
Lighting-fixture wall-plate. G. Westphal. No. 55,493; June 15; v. 275; p. 573.
Lighting-fixtures, Arm for. S. Kostszewski. No. 56,175; Aug. 24; v. 277; p. 745.
Lighting-fixtures, Arm for. B. Newland. 56,463; Oct. 26; v. 279; p. 693.
Lighting-fixtures, Body-plate for. B. Newland. No. 56,459; Oct. 26; v. 279; p. 693.
Lighting-fixtures, Bracket-back for. S. Kostszewski. No. 56,176; Aug. 24; v. 277; p. 745.
Lighting-fixtures, Bracket back for. B. Newland. No. 56,462; Oct. 26; v. 279; p. 693.
Lighting-fixtures, Candle-cup for. B. Newland. No. 56,458; Oct. 26; v. 279; p. 693.
Lighting-fixtures, Canopy for. B. Newland. No. 56,457; Oct. 26; v. 279; p. 693.
Lighting-fixtures, Finial for. B. Newland. No. 56,454; Oct. 26; v. 279; p. 692.
Lighting-fixtures, Globe for. F. W. Mathieu. No. 55,296 May 25; v. 274; p. 780.
Lighting-fixtures, Plate for. L. R. Wellman. No. 56,485; Oct. 26; v. 279; p. 698.
Lighting-fixtures shade. W. F. Handel. No. 55,464; June 15; v. 275; p. 568.
Lighting-fixtures, Spindle for. S. Kostszewski. No. 56,174; Aug. 24; v. 277; p. 745.
Lighting-fixtures, Spindle for. G. Westphal. No. 54,569; Mar. 2; v. 272; p. 142.
Lighting-fixtures, Stem-spindle for. B. Newland. No. 56,453; Oct. 26; v. 279; p. 692.
Lighting-fixtures, Stem-spindle for. B. Newland. No. 56,455; Oct. 26; v. 279; p. 692.
Lighting-globe. E. B. Gillinder. Nos. 55,779–80; July 13; v. 276; p. 364.
Lightning-rods and barn-ventilators, Ball for. G. E. Thompson. No. 56,715; Nov. 30; v. 280; p. 967.
Liquid-dispenser. H. G. Cordley. No. 56,692; Nov. 30; v. 280; p. 964.
Liquid-dispensing apparatus, Draft-arm for. H. S. Cornish. No. 55,940; Aug. 3; v. 277; p. 138.
Liquid-projecting device. M. W. Bailey. No. 55,017; May 4; v. 274; p. 137.
Load-measuring device. F. J. Troll. No. 55,901; July 20; v. 276; p. 559.
Lock, Auto-. C. Pohl. No. 54,450; Feb. 10; v. 271; p. 313.
Magneto-electric-machine armature. A. H. Bartsch. No. 54,827; Apr. 13; v. 273; p. 342.
Manhole-cover. N. J. McKeon. No. 56,015; Aug. 10; v. 277; p. 338.
Mat, Grass. W. T. Case. Nos. 55,929–35; Aug. 3; v. 277; pp. 136–7.
Match-holder and ash-receptacle, Combined. H. C. Traute. No. 54,567; Mar. 2; v. 272; p. 142.
Match-holder and ash-receptacle, Combined. H. C. Traute. No. 56,039; Aug. 10; v. 277; p. 342.
Measuring instrument, Portable electrical. A. H. Hoyt. No. 54,843; Apr. 13; v. 273; p. 345.
Meat-tenderer. H. M. Benedict. No. 56,549; Nov. 9; v. 280; p. 353.
Meat-tendering implement. W. Maechler. No. 55,481; June 15; v. 275; p. 571.
Medal. A. de Lautreppe and H. M. Mesrines. No. 55,027; May 4; v. 274; p. 138.
Medal, badge, button, pin, ring, flag, banner, pennant or similar article. C. G. Douglas. No. 56,587; Nov. 16; v. 280; p. 554.
Medal, medallion, or luck-piece. E. M. McPherson. No. 54,433; Feb. 10; v. 271; p. 310.
Medal or badge. J. H. Sweeny. No. 56,083; Aug. 10; v. 277; p. 349.
Memorandum-paper holder. G. E. Bliss and F. Smart. No. 56,581; Nov. 16; v. 280; p. 553.
Metal sponge-cup. H. Merkel and R. W. Guy. No. 56,621; Nov. 16; v. 280; p. 560.
Microscope-support. A. S. Alexander. No. 55,545; June 29; v. 275; p. 976.
Middy-blouses. I. C. Lasier. No. 55,950; Aug. 3; v. 277; p. 140.
Milk-jar. G. F. McDonnell and J. J. Dandoy. No. 55,068; May 4; v. 274; p. 145.
Mirror. S. T. Nowacki. No. 56,025; Aug. 10; v. 277; p. 339.
Mirror, brush, &c., back. J. H. Ring. No. 54,454; Feb. 10; v. 271; p. 314.
Mirror, brush, or similar article, Back for. A. Sidenberg, No. 56,711; Nov. 30; v. 280; p. 967.
Mirror for motor-vehicles, Rear-sight. F. W. Rees. No. 56,030; Aug. 10; v. 277; p. 340.
Mirror for motor-vehicles, Rear-sight. F. W. Rees. No. 56,309; Sept. 14; v. 278; p. 321.
Mirror for projectors. J. Rey. No. 56,679; Nov. 23; v. 280; p. 757.
Mirror, Wrist-. M. Kominkiewicz. No. 55,277; May 25; v. 274; p. 777.
Mixing-machine beater. B. D. Pinkney. No. 55,815; July 13; v. 276; p. 371.
Moccasin. L. Charest. No. 54,897; Apr. 20; v. 273; p. 571.
Moistener-base. C. C. Harris. No. 56,360; Oct. 5; v. 279; p. 138.
Monument. F. A. Grearson. No. 54,911; Apr. 20; v. 273; p. 574.
Monument, Tower-. B. A. Wise. No. 55,920; July 20; v. 276; p. 562.
Motor, Casing for a fluid-. H. W. Yost. No. 56,720; Nov. 30; v. 280; p. 968.
Motor-scooter. G. Campling. No. 55,148; May 18; v. 274; p. 551.
Motor-scooter frame. G. Campling. No. 56,551; Nov. 9; v. 280; p. 354.
Motor-stand base. W. J. H. Strong. No. 54,566; Mar. 2; v. 272; p. 142.
Motors, Mounting-frame for spring-. H. G. Saal. No. 55,648; July 6; v. 276; p. 167.
Motorcycle-frame. C. B. Franklin. No. 55,999; Aug. 10 v. 277; p. 335.
Mud-guard, Bicycle. E. J. Lonn. No. 56,288; Sept. 14; v. 278; p. 317.
Mud-lug. F. C. Poling. No. 54,561; Mar. 2; v. 272; p. 141.
Mud-lug. J. Rowe. No. 54,563; Mar. 2; v. 272; p. 141.
Muffler and cut-out, Combined. G. H. Taber. No. 55,964; Aug. 3; v. 277; p. 142.
Musical instrument. A. Kregling. No. 55,058; May 4; v. 274; p. 143.
Musical instruments, Mouthpiece for reed. F. L. Kaspar. No. 54,420; Feb. 10; v. 271; p. 308.
Nail-buffer. N. E. Berry. No. 55,406; June 8; v. 275; p. 364.
Nail-set. G. O. Carlson. No. 54,894; Apr. 20; v. 273; p. 571.
Necktie. W. D. Niederer. No. 54,953; Apr. 20; v. 273; p. 581.
Necktie-holder. J. L. Dorward. No. 55,553; June 29; v. 275; p. 978.
Needle holder, Knitting or crochet. B. P. Kinney. No. 54,755; Mar. 23; v. 272; p. 691.
Needle-wrapper. J. L. Flannery, Jr. No. 54,732; Mar. 23; v. 272; p. 687.
Nut, Union-. J. C. Sheffner. No. 54,781; Mar. 23; v. 272; p. 695.
Nutcracker. A. W. and J. J. Geigand. No. 55,460; June 15; v. 275; p. 568.
Oil-burner. G. W. Brown. No. 54,374; Feb. 10; v. 271; p. 300.
Oil-can. F. D. Gatchell. No. 54,983; Apr. 27; v. 273; p. 765.
Oiler, Combined wrench and spring-leaf. W. F. Scheffler. No. 54,461; Feb. 10; v. 271; p. 315.
Orange-peeler. V. Parkin. No. 56,678; Nov. 23; v. 280; p. 757.
Ornament, Hanging-. T. Kirchen. No. 54,756; Mar. 23; v. 272; p. 691.
Ouija-board. C. H. McGlasson. No. 56,449; Oct. 26; v. 279; p. 691.
Ovenware-frame. C. Andrews, Jr. No. 56,548; Nov. 9; v. 280; p. 353.

Digitized by Google

Alphabetical list of designs—Continued.

Package-tie. O. L. Mertz. Nos. 56,016–18; Aug. 10; v. 277; p. 338.
Packing and displaying round objects. G. Sykes. No. 54,702; Mar. 9; v. 272; p. 342.
Pad-rack. S. D. Page. No. 55,077; May 4; v. 274; p. 147.
Padlock. E. B. Stone. No. 54,874; Apr. 13; v. 273; p. 350.
Pan, Metal baking-. B. P. Wagner. No. 55,734; July 6; v. 276; p. 180.
Paper, cardboard, and similar articles, Ornamental. L. P. Winchenbaugh. No. 56,684; Nov. 23; v. 280; p. 758.
Paper, Decorative. G. E. Shropshire. No. 55,535; June 22; v. 275; p. 780.
Paper drinking-cup. E. R. Huntley. No. 54,749; Mar. 23; v. 272; p. 690.
Paper, Embossed wall-. A. Ainsworth. Nos. 55,109–12; May 11; v. 274; p. 356.
Paper, Embossed wall-. W. F. Roehlin. No. 55,139; May 11; v. 274; p. 361.
Paper, Embossed wall-. W. F. Roehlen. No. 55,887; July 20; v. 276; p. 557.
Paper-holder. J. E. Bolling. No. 55,547; June 29; v. 275; p. 977.
Paper holder, Toilet-. W. L. Lee. No. 56,254; Sept. 7; v. 278; p. 137.
Paper-napkin container. O. E. Teall. No. 56,730; Dec. 7; v. 281; p. 166.
Paper or fabric, Crimpled, craped, or crinkled. W. A. Lorenz. Nos. 56,819–23; Dec. 28; v. 281; pp. 748–9.
Paper, Ornamented. H. S. Slayter. No. 54,716; Mar. 16; v. 272; p. 509.
Paper, Wall-. S. S. Lloyd. No. 55,951; Aug. 3; v. 277; p. 140.
Paper-weight. W. C. Gamble. No. 55,510; June 22; v. 275; p. 775.
Paper-weight. A. Neilson. No. 55,299; May 25; v. 274; p. 781.
Paper-weight and magnifying-glass, Combined. P. H. Meyer. No. 55,632; July 6; v. 276; p. 164.
Parasol or umbrella. I. H. Weinberg and C. F. Bisbing. No. 56,043; Aug. 10; v. 277; p. 343.
Parasols, Supporting-crown for. J. Levin. No. 56,668; Nov. 23; v. 280; p. 755.
Pastry cone. J. Shalhoub and L. H. Esselmann. No. 56,771; Dec. 14; v. 281; p. 374.
Paving and building purposes, Expansion-joint filler for. H. C. Rieble. No. 56,729; Dec. 7; v. 281; p. 166.
Pen and pencil holder. O. B. Fish. No. 56,349; Oct. 5; v. 279; p. 136.
Pen-holding attachment for ink-bottles. J. J. Harpur. No. 56,064; Aug. 10; v. 277; p. 346.
Pen or pencil case. J. C. Wahl. No. 56,681; Nov. 23; v. 280; p. 758.
Penholder. T. C. Sawyier. No. 56,680; Nov. 23; v. 280; p. 757.
Penmanship, Hand-support for teaching. F. C. Young. No. 56,489; Oct. 26; v. 279; p. 698.
Pencil-holder. A. B. Jones. No. 55,565; June 29; v. 275; p. 979.
Pencils, Rubber-eraser head for lead-. E. Faber. No. 56,247; Sept. 7; v. 278; p. 136.
Pendant. L. F. Van Schuck. No. 54,793; Mar. 23; v. 272; p. 697.
Pennant. L. S. Corson. No. 56,070; Aug. 10; v. 277; p. 347.
Pennant. H. Krause. No. 56,700; Nov. 30; v. 280; p. 965.
Pennant. A. E. Langlois. No. 55,286; May 25; v. 274; p. 779.
Pennant. N. Noël. No. 54,762; Mar. 23; v. 272; p. 692.
Pepper, salt, and napkin holder, Combined. J. F. Dobbins. No. 54,393; Feb. 10; v. 271; p. 304.
Perch, Spring-shackle. L. Kinney and C. R. Dumn. No. 54,633; Mar. 9; v. 272; p. 332.
Phonograph. W. Thorpe. No. 55,217; May 18; v. 274; p. 563.
Phonograph and lamp-standard, Combination. P. R. Gonsky. No. 54,984; Apr. 27; v. 273; p. 765.
Phonograph-cabinet. H. Orsenigo. Nos. 55,875–9; July 20; v. 276; p. 555.
Phonograph-cabinets, Grill for. A. M. Holstein. No. 56,813; Dec. 28; v. 281; p. 747.
Phonograph-case. J. Fern. No. 56,695; Nov. 30; v. 280; p. 964.
Phonograph-case. H. Honeck. No. 56,614; Nov. 16; v. 280; p. 559.
Phonograph-case. L. S. Kurtzmann. No. 55,386; June 1; v. 275; p. 163.
Phonograph-case and cabinet, Combined. E. Forrest. No. 55,159; May 18; v. 274; p. 553.
Phonograph-case cover. F. L. Steger. No. 56,035; Aug. 10; v. 277; p. 341.
Phonograph case or cabinet. J. F. Bosserman. No. 56,218; Aug. 31; v. 277; p. 936.
Phonograph-casing. G. R. Kunkle. No. 55,181; May 18; v. 274; p. 557.
Phonograph-casing. S. L. M. Pearson. 55,196; May 18; v. 274; p. 560.
Phonograph-casing. S. L. M. Pearson. No. 56,026; Aug. 10; v. 277; p. 339.
Phonograph-casing. C. J. and S. L. M. Pearson. No. 56,305; Sept. 14; v. 278; p. 320.
Phonograph-casing. C. J. and S. L. M. Pearson. Nos. 56,377–8; Oct. 5; v. 279; p. 141.
Phonograph-horn. F. K. Amrelhn. No. 56,644; Nov. 23; v. 280; p. 750.
Phonograph-meter. E. J. Tomlinson. No. 56,544; Nov. 2; v. 280; p. 151.
Phonograph-motor top-plate. M. Nystrom. No. 55,194; May 18; v. 274; p. 559.
Phonograph-needle. R. Steinert. No. 55,097; May 4; v. 274; p. 150.
Phonograph-record. M. Kazanjian. No. 55,053; May 4; v. 274; p. 142.
Phonograph sound-reproducer. S. S. Schiff. No. 55,383; May 25; v. 274; p. 786.
Phonograph-table. D. A. Lee. No. 56,701; Nov. 30; v. 280; p. 965.
Phonograph tone-arm. H. Lubé. No. 56,290; Sept. 14; v. 278; p. 318.
Phonograph tone-chamber. I. Benson. No. 55,361; June 1; v. 275; p. 158.
Piano-case. W. M. Paisted. No. 56,192; Aug. 24; v. 277; p. 748.
Piano key-bed. H. J. Sandlass. No. 55,888; July 20; v. 276; p. 557.
Pick. A. Diacich. No. 56,054; Aug. 10; v. 277; p. 345.
Picture-frame. Z. Klotz. No. 56,173; Aug. 24; v. 277; p. 745.
Picture-frame. P. Morea. No. 55,635; July 6; v. 276; p. 165.
Picture-frame. E. Smith. No. 54,784; Mar. 23; v. 272; p. 695.
Picture-frame ornament. M. L. Strong. Nos. 56,205–6; Aug. 24; v. 277; p. 750.
Picture machines, Housing for motion-. J. Grans. No. 55,377; June 1; v. 275; p. 161.
Picture machines, Magazine for motion-. L. Brown. No. 50,979; Aug. 10; v. 277; p. 331.
Picture machines, Supporting-frame for motion-. L. Brown. No. 55,977; Aug. 10; v. 277; p. 331.
Picture-mat. Service. M. J. Smyth. No. 56,202; Aug. 24; v. 277; p. 749.
Picture-mount. S. Rubinstein. No. 56,627; Nov. 16; v. 280; p. 561.
Pillow top or article of similar nature. M. D. Dreyfach. No. 56,121; Aug. 24; v. 277; p. 735.
Pin. J. B. Brady. No. 55,410; June 8; v. 275; p. 365.
Pin. L. D. Hackett. No. 54,913; Apr. 20; v. 273; p. 574.
Pin. M. Nielsen. No. 56,024; Aug. 10; v. 277; p. 339.
Pin, badge, flag, or similar article. C. A. Howard. No. 55,564; June 29; v. 275; p. 979.
Pin, badge, or similar article, Hero service. N. Hanson. No. 55,270; May 25; v. 274; p. 776.
Pin, brooch, ring, or article of similar nature. L. Hirsch. No. 55,946; Aug. 3; v. 277; p. 139.
Pin, emblem, or article of similar nature. A. M. French. No. 55,769; July 13; v. 276; p. 362.
Pin, Hook-. W. A. Houston. No. 55,515; June 22; v. 275; p. 776.
Pin or badge, Fraternity. O. Henry. No. 56,156; Aug. 24; v. 277; p. 741.
Pin or similar article. T. Heath. No. 55,042; May 4; p. 274; p. 141.
Pin or similar device for personal wear. B. R. Reynolds. No. 55,957; Aug. 3; v. 277; p. 141.
Pin, Service-. W. A. Hartline. No. 55,039; May 4; v. 274; p. 140.
Pin, Service-. J. G. Rosengarten. No. 56,383; Oct. 5; v. 279; p. 142.
Pincer. H. Rozenske. No. 55,487; June 15; v. 275; p. 572.
Pincushion. J. La Croix. No. 54,934; Apr. 20; v. 273; p. 577.
Pincushion. C. Lafitte. No. 54,853; Apr. 13; v. 273; p. 347.
Pipe, Smoking-. E. Strom. No. 55,443; June 8; v. 275; p. 371.
Pipe, Tobacco-. P. F. Campbell. No. 54,831; Apr. 13; v. 273; p. 343.
Pipe, Tobacco-. F. R. Parker. No. 56,564; Nov. 9; v. 280; p. 356.
Plaque, Memorial-. L. Seliber. No. 54,773; Mar. 23; v. 272; p. 694.
Plaque or panel. M. Shapiro. No. 56,387; Oct. 5; v. 279; p. 143.
Plate, Cake-. J. Beiswanger. No. 56,334; Oct. 5; v. 279; p. 133.
Plate, Fiber. L. D. Jacoby. No. 54,846; Apr. 13; v. 273; p. 345.
Plate or similar article. J. Gunther. No. 55,269; May 25; v. 274; p. 776.
Plate or similar article. J. Holland. No. 55,272; May 25; v. 274; p. 776.
Plate or similar article. F. G. Holmes. Nos. 54,813–14; Mar. 30; v. 272; p. 889.
Plate or similar article. C. Klenk. No. 54,423; Feb. 10; v. 271; p. 308.
Plate or similar article. E. F. Tatler. No. 55,827; July 13; v. 276; p. 373.

Digitized by Google

Alphabetical list of designs—Continued.

Plate, Serving-. C. Torgeson. No. 55,218; May 18; v. 274; p. 563.
Pliers, Pair of. J. E. Durham, Jr. No. 54,516; Feb. 24; v. 271; p. 653.
Plug-cluster. R. B. Benjamin. No. 55,973; Aug. 10; v. 277; p. 330.
Plug-cluster. R. B. Benjamin. No. 56,721; Dec. 7; v. 281; p. 164.
Poison receptacle, Ant-. A. D. Cardinet. No. 56,552; Nov. 9; v. 280; p. 354.
Pole-holder. R. A. Schultz. No. 56,197; Aug. 24; v. 277; p. 749.
Post. H. A. Landwehr. No. 55,134; May 11; v. 274; p. 360.
Pouring device. J. E. O'Brien. No. 55,395; June 1; v. 275; p. 165.
Powder-can or similar receptacle. C. S. Humphrey. No. 54,923; Apr. 20; v. 273; p. 576.
Powder-can or similar receptacle. C. S. Humphrey. No. 55,047; May 4; v. 274; p. 142.
Powder-cloth. A. Marcus. No. 55,391; June 1; v. 275; p. 164.
Powder-container. A. E. Bruns. No. 54,591; Mar. 9; v. 272; p. 325.
Powder-container. C. S. Humphrey. No. 54,922; Apr. 20; v. 273; p. 575.
Powder-container. C. S. Humphrey. No. 55,046; May 4; v. 274; p. 141.
Powder-container cap. C. S. Humphrey. No. 54,745; Mar. 23; v. 272; p. 689.
Powder-container or similar article. C. S. Humphrey. Nos. 54,746–7; Mar. 23; v. 272; p. 689.
Powder-container or similar receptacle. C. S. Humphrey. No. 54,924; Apr. 20; v. 273; p. 576.
Powder-container or similar receptacle. L. A. Wegenaar. No. 54,514; Feb. 17; v. 271; p. 503.
Powder, &c., container, Toilet. C. S. Humphrey. No. 54,626; Mar. 9; v. 272; p. 330.
Powder container, Toilet-. W. G. Kendall. No. 56,747; Dec. 14; v. 281; p. 369.
Powder-puff. W. H. Koon. No. 55,474; June 15; v. 275; p. 570.
Powder-puff. A. Marcus. No. 55,392; June 1; v. 275; p. 164.
Precious, semiprecious, or synthetic stone, or an imitation thereof. S. Heller. Nos. 55,512–13; June 22; v. 275; p. 776.
Prism-glass. E. G. Johanson. No. 55,276; May 25; v. 274; p. 777.
Pruning-tool. R. B. Williams. No. 55,350; May 25; v. 274; p. 790.
Pulley-block. J. H. Flynn, Jr. No. 55,508; June 22; v. 275; p. 775.
Pulley, Power-. E. H. Bickley. No. 54,579; Mar. 9; v. 272; p. 323.
Pump crank-shaft and gear-housing, Air-. G. E. Hazard. No. 54,413; Feb. 10; v. 271; p. 307.
Pump, crank-shaft, and gear housing, Air-. G. E. Hazard. Nos. 54,618–19; Mar. 9; v. 272; p. 329.
Pump-handle. R. Sidel. No. 54,869; Apr. 13; v. 273; p. 349.
Pump-nozzle connection, Air-. C. M. Boyce. No. 55,975; Aug. 10; v. 277; p. 330.
Pump-overflow pan. K. J. W. Freitag and H. D. Ainsworth. No. 54,611; Mar. 9; v. 279; p. 328.
Punch. M. Meyerson. No. 54,648; Mar. 9; v. 272; p. 335.
Punch-board. L. Reisfeld. No. 55,817; July 13; v. 276; p. 371.
Purse. C. A. Nichthauser. Nos. 55,192–3; May 18; v. 274; p. 559.
Purse. C. A. Nichthauser. No. 55,300; May 25; v. 274; p. 781.
Push-button. C. J. Schwarze. No. 54,962; Apr. 20; v. 273; p. 582.
Puzzle. F. S. Marr. No. 54,759; Mar. 23; v. 272; p. 691.
Quilt. F. Lloyd. No. 54,426; Feb. 10; v. 271; p. 309.
Rack. I. Reynolds. No. 56,476; Oct. 26; v. 279; p. 696.
Rack, Display-. C. J. Pult. No. 54,769; Mar. 23; v. 272; p. 698.
Rack, Handy. H. J. Vernon and M. I. Helton. No. 54,707; Mar. 9; v. 272; p. 348.
Rack, Utensil-. C. V. Salomon. No. 54,685; Mar. 9; v. 272; p. 340.
Radiant for gas-heaters. W. A. Wilson. No. 55,541; June 22; v. 275; p. 781.
Radiator. F. E. Bradfield. No. 55,145; May 18; v. 274; p. 551.
Radiator. J. A. Hinger. No. 55,043–4; May 4; v. 274; p. 141.
Radiator. J. A. Hinger. No. 56,065; Aug. 10; v. 277; p. 346.
Radiator. E. H. Oversmith. No. 55,312; May 25; v. 274; p. 783.
Radiator, Automobile-. W. A. King. No. 55,473; June 15; v. 275; p. 570.
Radiator-cap. R. D. Cook. No. 55,367; June 1; v. 275; p. 160.
Radiator-cap. O. H. Hicks. Nos. 56,698–9; Nov. 30; v. 280; p. 965.
Radiator-cap and temperature-indicating instrument, Combined motor-vehicle. H. H. Boyce. No. 55,502; June 22; v. 275; p. 773.
Radiator-cap ornament. H. H. Moor. No. 55,072; May 4; v. 274; p. 146.
Radiator-cap ornament. J. A. Strawn. No. 56,390; Oct. 5; v. 279; p. 143.
Radiator casing, Automobile-. G. G. Behn. No. 54,828; Apr. 13; v. 273; p. 342.
Radiator-core. E. F. Brown and J. E. Reed. No. 56,735; Dec. 14; v. 281; p. 367.
Radiator core, Automobile-. L. G. Hanmer. No. 55,465; June 15; v. 275; p. 569.
Radiator, Electric. J. F. Lamb. No. 54,635; Mar. 9; v. 272; p. 332.
Radiator for automobile-vehicles. M. H. L. Sizaire. No. 55,491; June 15; v. 275; p. 573.
Radiator front, Automobile-. J. F. Raleigh. No. 55,435; June 8; v. 275; p. 369.
Radiator-inclosure. D. C. Moore. No. 56,255; Sept. 7; v. 278; p. 137.
Radiator ornament, Automobile-. R. C. Black. Nos. 54,369–70; Feb. 10; v. 271; p. 300.
Radiator ornament, Vehicle. B. F. Wright. No. 54,622; Mar. 9; v. 272; p. 330.
Radiators of motor-vehicles, Guard for. E. T. Curran. No. 56,275; Sept. 14; v. 278; p. 316.
Radiators, Temperature-indicator for automobile-. L. V. Aronson. No. 56,578; Nov. 16; v. 280; p. 553.
Rail-clamp. J. Kaczmarczyk. No. 55,383; June 1; v. 275; p. 162.
Raincoat. B. Greenberg. No. 55,787; July 13; v. 276; p. 366.
Rake, Garden-. I. Tsuchiya. No. 54,878; Apr. 13; v. 273; p. 351.
Range. A. P. Bartley. No. 56,492; Nov. 2; v. 280; p. 141.
Range. E. P. Cole. Nos. 55,744–5; July 13; v. 276; p. 357.
Range. J. F. Lamb. Nos. 54,636–8; Mar. 9; v. 272; pp. 332–3.
Range. C. W. Nye. No. 54,557; Mar. 2; v. 272; p. 140.
Range-body. E. P. Cole. No. 55,746; July 13; v. 276; p. 358.
Range, Combination coal and gas. J. J. Toomey. Nos. 54,479–80; Feb. 10; v. 271; p. 318.
Range, Combination coal and gas. J. J. Toomey. (Reissue.) Nos. 14,866–7; May 25; v. 274; pp. 768–9.
Range-top. E. P. Cole. No. 54,602; Mar. 9; v. 272; p. 326.
Range, Warming-oven for a. E. P. Cole. No. 55,747; July 13; v. 276; p. 358.
Rattle. F. C. Monkhouse. Nos. 55,633–4; July 6; v. 276; p. 164.
Rattle. A. T. Willis. No. 56,487; Oct. 26; v. 279; p. 698.
Razor. H. H. Johnson. No. 56,283; Sept. 14; v. 278; p. 317.
Razor case, Safety-. R. E. Thompson. No. 56,392; Oct. 5; v. 279; p. 144.
Receptacle. C. S. Humphrey. No. 54,748; Mar. 23; v. 272; p. 689.
Receptacle for toilet powders and other salable commodities. C. S. Humphrey. No. 54,845; Apr. 13; v. 273; p. 345.
Reflector. H. G. Fitz Gerald. No. 55,457; June 15; v. 275; p. 565.
Reflector. W. G. Yates. No. 56,547; Nov. 2; v. 280; p. 151.
Reflector, Prismatic. W. A. Dorey. No. 56,656; Nov. 23; v. 280; p. 752.
Refrigerator display-case. L. G. Gray. No. 56,553; Nov. 9; v. 280; p. 355.
Ribbon, Lapel-. A. Tilt. No. 55,577; June 29; v. 275; p. 981.
Ribbon, Military-bar. G. H. Rennick. No. 56,625; Nov. 16; v. 280; p. 560.
Ring. H. G. Essayan. Nos. 55,555–9; June 29; v. 275; p. 978.
Ring. H. Gilsey. Nos. 54,547–8; Mar. 2; v. 272; p. 139.
Ring. N. Gorod. No. 55,604; July 6; v. 276; p. 159.
Ring. S. Mitchell. No. 56,184; Aug. 24; v. 277; p. 746.
Ring. L. W. Sanborn. No. 55,650; July 6; v. 276; p. 168.
Ring, emblem, or similar article. C. T. Crossman. No. 54,605; Mar. 9; v. 272; p. 327.
Ring, Engagement or wedding. B. F. Simpson. Nos. 56,836–7; Dec. 28; v. 281; p. 751.
Ring, Finger-. C. Sheer. No. 55,335; May 25; v. 274; p. 787.
Ring, Finger-. J. Simmons. No. 55,893; July 20; v. 276; p. 558.
Ring, Finger-. M. K. Weiler. No. 56,718; Nov. 30; v. 280; p. 968.
Ring, Finger-. M. Weiner and W. Loeb. Nos. 56,087–92; Aug. 10; v. 277; pp. 350–1.
Ring, Finger-. C. T. Wittstein. No. 56,719; Nov. 30; v. 280; p. 968.
Ring, pin, or article of similar nature. G. B. Hall. No. 56,428; Oct. 26; v. 279; p. 687.
Ring, Wedding-. C. L. Trout. Nos. 54,481–4; Feb. 10; v. 271; pp. 318–19.

Digitized by Google

Ring, Wedding-. C. L. Trout. Nos. 54,973–4; Apr. 20; v. 273; p. 584.
Rocker, Child's. A. B. Christopher. No. 55,453; June 15; v. 275; p. 566.
Rocking-horse. A. J. Meerse and A. J. Doren. No. 54,435; Feb. 10; v. 271; p. 310.
Rocking-horse. J. Van Wuyckhuyse. No. 54,879; Apr. 13; v. 273; p. 351.
Roll, matrix, die, or similar article. L. T. Bartlett. No. 54,826; Apr. 13; v. 273; p. 342.
Romper, Child's. W. A. Genesy. No. 56,354; Oct. 5; v. 279; p. 137.
Romper, Child's. E. Gillman and L. Siegel. No. 56,231; Aug. 31; v. 277; p. 939.
Romper, Child's. J. Miller and D. Macowsky. No. 56,450; Oct. 26; v. 279; p. 692.
Romper, Child's. W. I. Zidell. No. 54,809; Mar. 23; v. 272; p. 700.
Rompers, Bathing-. L. Rubin. No. 56,626; Nov. 16; v. 280; p. 561.
Rosary. G. B. Hovekamp. No. 55,382; June 1; v. 275; p. 162.
Rubber ball. R. C. Eddy. No. 54,903; Apr. 20; v. 273; p. 572.
Rubber boot or shoe sole. W. E. Piper. No. 55,528; June 22; v. 275; p. 778.
Rubber heel-pad for boots and shoes. J. E. Barney. No. 55,116; May 11; v. 274; p. 357.
Rubber overshoe or similar article, Sole of a. W. E. Piper. No. 55,529; June 22; v. 275; p. 779.
Rubber pad for shoe-soles. D. H. Eley and T. H. Ryan. No. 56,345; Oct. 5; v. 279; p. 135.
Rubber sole-pad for boots and shoes. J. E. Barney. Nos. 55,114–15; May 11; v. 274; p. 357.
Rug. W. A. Elliot. No. 54,395; Feb. 10; v. 271; p. 304.
Rug. W. F. McCabe. Nos. 54,436–8; Feb. 10; v. 271; p. 311.
Rug. C. F. Romieu. No. 54,455; Feb. 10; v. 271; p. 314.
Rug. E. G. Sauer. Nos. 54,458–60; Feb. 10; v. 271; pp. 314–15.
Rug. J. G. Speck. Nos. 54,466–8; Feb. 10; v. 271; p. 316.
Rug. J. G. Speck. No. 55,961; Aug. 3; v. 277; p. 142.
Rug. W. A. Spring. Nos. 54,469–71; Feb. 10; v. 271; pp. 316–17.
Rug. I. J. Vetter. No. 54,488; Feb. 10; v. 271; p. 319.
Rug. A. H. Waldo. No. 55,834; July 13; v. 276; p. 374.
Rug. A. H. Waldo. Nos. 55,902–18; July 20; v. 276; pp. 559–62.
Rug, Grass. A. F. Brasz. No. 54,719; Mar. 23; v. 272; p. 685.
Rug, Grass. O. T. Waite. No. 54,880; Apr. 13; v. 273; p. 351.
Rug, Grass. B. L. Wight. Nos. 54,798–806; Mar. 23; v. 272; pp. 698–9.
Rug, Grass. C. van de Wall. Nos. 54,791–2; Mar. 23; v. 272; p. 696.
Rug, Grass. O. T. Waite. Nos. 54,794–6; Mar. 23; v. 272; p. 697.
Sadiron-handle. F. Rososczuk. No. 56,032; Aug. 10; v. 277; p. 341.
Sales-case. E. K. Moore. No. 56,452; Oct. 26; v. 279; p. 692.
Salt and pepper basket. R. E. Harris and R. L. Chance. No. 54,916; Apr. 20; v. 273; p. 916.
Salt-cellar. J. Hirsch. No. 55,271; May 25; v. 274; p. 776.
Sandal-upper. G. Codish. No. 56,801; Dec. 28; v. 281; p. 745.
Scale. W. S. Smith. No. 55,824; July 13; v. 276; p. 372.
Scale-dial. J. B. Watling. No. 56,394; Oct. 5; v. 279; p. 144.
Scale-tower. W. S. Smith. No. 55,823; July 13; v. 276; p. 372.
Sconce for a lighting-fixture or similar article. G. J. Vester. No. 55,342; May 25; v. 274; p. 788.
Scooter. L. M. Pratt. No. 56,473; Oct. 26; v. 279; p. 696.
Scoreboard. J. Zipp and J. P. Morbach. No. 55,499; June 15; v. 275; p. 574.
Screen. A. Viscardi. No. 55,731; July 6; v. 276; p. 180.
Screwdriver. A. Harris. No. 56,812; Dec. 28; v. 281; p. 747.
Searchlight. A. C. Wood. No. 55,106; May 4; v. 274; p. 152.
Seat. P. J. Jones and P. D. Screiber. No. 56,169; Aug. 24; v. 277; p. 744.
Seat, Adjustable industrial. E. W. Allen. No. 55,927; Aug. 3; v. 277; p. 136.
Seat and table. Combined. W. L. White. No. 54,882; Apr. 13; v. 273; p. 352.
Secondary-battery connecting-strap. T. R. Cook. No. 56,654; Nov. 23; v. 280; p. 752.
Secondary-battery cover. T. R. Cook. No. 56,651; Nov. 23; v. 280; p. 751.
Secondary-battery plate. T. R. Cook. No. 56,653; Nov. 23; v. 280; p. 751.
Service-pin. D. W. Blomquist. No. 54,585; Mar. 9; v. 272; p. 324.
Shade-bracket. N. Cloutier. No. 56,523; Nov. 2; v. 280; p. 147.
Shade-holder. L. J. Rainaud. No. 56,474; Oct. 26; v. 279; p. 696.
Shade, Light-. G. Foster. No. 54,733; Mar. 23; v. 272; p. 687.
Shade or reflector. J. J. Vallely. No. 54,705; Mar. 9; v. 272; p. 343.
Shades for electric lights, Frame for. H. Cohn. No. 54,714; Mar. 16; v. 272; p. 509.
Sharpener, Knife-. M. T. Graf. No. 56,250; Sept. 7; v. 278; p. 136.
Shelf-rest. G. D. Sailer. Nos. 56,540–1; Nov. 2; 280; p. 150.
Shelf support, Display-. H. J. Nutrizio. No. 54,671; Mar. 9; v. 272; p. 338.
Shelving, Store-. J. F. Reymann. Nos. 56,566–7; Nov. 9; v. 280; pp. 356–7.
Shelving, Store-. J. F. Reymann. No. 56,709; Nov. 30; v. 280; p. 966.
Shield, badge, button, pin, or similar article. W. J. Tennent. No. 55,965; Aug. 3; v. 277; p. 142.
Shingle, Roofing-. C. Russell. No. 56,106; Aug. 17; v. 277; p. 550.
Shingle-simulating strip. O. A. Heppes. No. 54,919; Apr. 20; v. 273; p. 575.
Shirt. C. L. Talbot. No. 54,970; Apr. 20; v. 273; p. 584.
Shock-absorber. R. M. Lovejoy. No. 54,641; Mar. 9; v. 272; p. 333.
Shoe. S. King. No. 54,754; Mar. 23; v. 272; p. 690.
Shoe. M. F. Pasquarelli. No. 55,814; July 13; v. 276; p. 371.
Shoe-last. V. Lauria. No. 56,442; Oct. 26; v. 279; p. 690.
Shoe ornament. L. H. Ordway; No. 56,727; Dec. 7; v. 281; p. 165.
Shoe-paste applier and polisher. O. Seacord. No. 56,835; Dec. 28; v. 281; p. 751.
Shoe-plate. L. Hasel. No. 55,126; May 11; v. 274; p. 359.
Shoe-plate. M. M. West. No. 56,486; Oct. 26; v. 279; p. 698.
Shoe plate, Rubber-. D. H. Eley and T. H. Ryan. No. 55,419; June 8; v. 275; p. 366.
Shoe, Play-. E. A. Wagner. No. 56,717; Nov. 30; v. 280; p. 968.
Shoe-sole. E. Phillips. No. 55,397; June 1; v. 275; p. 165.
Shoes, Rubber tread portion for. C. M. Wolcott. No. 54,515; Feb. 17; v. 271; p. 503.
Shrine, Sacramental. S. Buscarage. No. 55,590; July 6; v. 276; p. 156.
Sifter-top can or similar article. G. Hall. No. 56,427; Oct. 26; v. 279; p. 687.
Sifter-top can or similar receptacle. M. H. Connor. No. 54,603; Mar. 9; v. 272; p. 327.
Sifter-top can or similar receptacle. M. H. Connor. Nos. 55,749–50; July 13; v. 276; p. 358.
Sight-feed for oil-pipe. W. A. Rarig. No. 54,862; Apr. 13; v. 273; p. 348.
Sign. J. Prince. No. 56,765; Dec. 14; v. 281; p. 373.
Sign. H. R. Wilkinson. No. 56,395; Oct. 5; v. 279; p. 144.
Sign, Advertising-. J. W. Guinn. No. 55,421; June 8; v. 275; p. 367.
Sign, Advertising-. R. R. Johnstone. No. 55,471; June 15; v. 275; p. 570.
Signal, Automobile-. E. E. Mullvain. No. 54,445; Feb. 10; v. 271; p. 312.
Signal, Automobilist's hand-. W. W. Kuhlmann. No. 56,008; Aug. 10; v. 277; p. 336.
Signal-casing. F. W. Lohr. No. 54,428; Feb. 10; v. 271; p. 309.
Signal, Inclosing casing for an automobile-. G. J. Zeis. No. 55,353; May 25; v. 274; p. 790.
Signal, Motor-vehicle. F. A. Wescott. Nos. 55,223–4; May 18; v. 274; p. 564.
Signpost. R. C. Tilghman. No. 54,876; Apr. 13; v. 273; p. 351.
Sled, Child's. M. F. Sullivan. No. 55,099; May 4; v. 274; p. 151.
Sleigh, Child's. G. E. Worth. No. 55,352; May 25; v. 274; p. 790.
Sleigh-knee. F. G. Hinegardner and D. W. Bowman. No. 56,004; Aug. 10; v. 277; p. 336.
Slipper. P. E. Giroux. No. 55,602; July 6; v. 276; p. 159.
Smoker's stand. A. Cheeks. No. 56,221; Aug. 31; v. 277; p. 937.
Snap-fastener. C. Baum. Nos. 56,686–7; Nov. 30; v. 280; p. 963.
Snap-hook. H. J. Roebuck. No. 55,819; July 13; v. 276; p. 371.
Soap cake. M. V. W. De Mott. No. 54,890; Feb. 10; v. 271; p. 303.
Soap, Cake of. T. Ludwig. No. 56,702; Nov. 30; v. 280; p. 965.
Soap dispenser, Liquid-. E. L. Morris. No. 56,079; Aug. 10; v. 277; p. 349.
Socket-cover. H. Cohn. No. 55,939; Aug. 3; v. 277; p. 138.
Sole-pad for boots and shoes, Cushion. L. M. Van Wagner and J. A. Duffy. No. 55,343; May 25; v. 274; p. 788.
Sole-protector. W. H. Betts. No. 54,718; Mar. 23; v. 272; p. 684.
Sole, Shoe-. E. Phillips. No. 55,318; May 25; v. 274; p. 784.

Digitized by Google

Alphabetical list of designs—Continued.

Sound-producing-instrument casing. M. Richtsteig. No. 55,645; July 6; v. 276; p. 167.
Sounding-post tool. G. J. Champane. No. 55,365; June 1; v. 275; p. 159.
Souvenir. D. Bogen. No. 55,408; June 8; v. 275; p. 364.
Spark-intensifier, Housing for. M. H. J. Masonoff. No. 55,065; May 4; v. 274; p. 145.
Spark-plug. G. T. Dochtermann. No. 56,586; Nov. 16; v. 280; p. 554.
Spark-plug shell. H. F. Kumler and I. R. Rystedt. No. 55,133; May 11; v. 274; p. 360.
Spat. T. A. Moolten. No. 55,304; June 1; v. 275; p. 165.
Spectacle-temple end. H. E. Kirstein. No. 56,365; Oct. 5; v. 279; p. 139.
Speedometer face-plate. J. Berge. Nos. 55,740–1; July 13; v. 276; p. 357.
Speedometer face-plate. J. Berge. No. 55,974; Aug. 10; v. 277; p. 330.
Spool-holder. P. O. Mueller. No. 55,637; July 6; v. 276; p. 165.
Spools or similar articles, Support for. H. O. Olcott. No. 56,530; Nov. 2; v. 280; p. 148.
Spoon. H. G. Essayan. No. 55,031; May 4; v. 274; p. 139.
Spoon. T. B. Lashar. No. 54,854; Apr. 13; v. 273; p. 347.
Spoon, fork, &c., Handle for. C. W. Harman. No. 56,153; Aug. 24; v. 277; p. 741.
Spoon, fork or similar article. E. T. Beck. Nos. 56,215–16; Aug. 31; v. 277; p. 936.
Spoon, fork, or similar article. E. H. Johnson. No. 56,236; Aug. 31; v. 277; p. 940.
Spoon, fork, or similar article. A. G. Kintz. No. 55,180; May 18; v. 274; p. 557.
Spoon, fork or similar article. A. G. Kintz. No. 56,237; Aug. 31; v. 277; p. 940.
Spoon, fork, or similar article. H. Knott. No. 55,131; May 11; v. 274; p. 360.
Spoon, fork, or similar article handle. A. Reimherr. No. 54,452; Feb. 10; v. 271; p. 313.
Spoon, fork, or similar article handle. A. H. Staf. No. 55,096; May 4; v. 274; p. 150.
Spoon, fork, or similar article, Handle for a. G. L. Crowell, Jr. Nos. 55,982–3; Aug. 10; v. 277; p. 332.
Spoon, Kitchen-. G. S. Tarbell. No. 55,540; June 22; v. 275; p. 781.
Spoon or similar article. F. R. Woodward. No. 55,002; Apr. 27; v. 273; p. 769.
Spot-light. E. H. Howard. No. 56,066; Aug. 10; v. 277; p. 347.
Spray device. G. B. Pickop. No. 55,486; June 15; v. 275; p. 572.
Spring support and hanger. T. Delikat. No. 55,156; May 18; v. 274; p. 553.
Sprinkler-head or similar article. J. R. Hamilton. No. 55,124; May 11; v. 274; p. 359.
Sprinkler-head or similar article, Frame for. J. R. Hamilton. No. 55,170; May 18; v. 274; p. 555.
Sprinkler-heads or similar articles, Frame member for automatic. J. R. Hamilton. No. 55,463; June 15; v. 275; p. 568.
Sprinkling-can. W. Sroka. No. 56,774; Dec. 14; v. 281; p. 374.
Stamp, Hand-. M. S. Miller. No. 55,137; May 11; v. 274; p. 361.
Stand. W. F. Faas. No. 56,097; Aug. 17; v. 277; p. 548.
Stand, Smoker's. G. M. Minton. No. 54,509; Feb. 17; v. 271; p. 502.
Stand, Smoker's. G. M. Minton. Nos. 54,662–4; Mar. 9; v. 272; pp. 356–7.
Stationery-container. W. H. Smythe. No. 54,513; Feb. 17; v. 271; p. 503.
Stationery, Demarcating-border to be impressed on. E. H. Berry. No. 54,866; Feb. 10; v. 271; p. 299.
Statue. G. Bess. No. 55,546; June 29; v. 275; p. 976.
Statue. P. Montana. No. 55,872; July 20; v. 276; p. 554.
Statue, statuette, or ornament. L. W. Sebring. No. 55,574; June 29; v. 275; p. 981.
Statuette. P. M. Basalo. No. 56,333; Oct. 5; v. 279; p. 133.
Statuette. W. J. Jacobi. No. 56,164; Aug. 24; v. 277; p. 743.
Statuette. E. H. Jones. Nos. 56,166–7; Aug. 24; v. 277; pp. 743–4.
Statuette. J. J. Kearney and G. H. Winter. No. 56,100; Aug. 17; v. 277; p. 549.
Statuette. F. A. Koch. No. 54,931; Apr. 20; v. 273; p. 577.
Statuette. R. A. Patterson. No. 55,316; May 25; v. 274; p. 784.
Statuette. W. J. Nowak. No. 55,525; June 22; v. 275; p. 778.
Statuette. B. E. Rieg and E. B. Williams. No. 55,138; May 11; v. 274; p. 361.
Statuette. I. A. Withers. No. 55,835; July 13; v. 276; p. 374.
Statuette. A. J. Ziv. No. 55,543; June 22; v. 275; p. 781.
Statuette or doll. K. M. Burke. No. 54,593; Mar. 9; v. 272; p. 325.
Statuette or similar article. C. E. Johnston. No. 55,795; July 13; v. 276; p. 367.
Steam-distributer and baster for cooking apparatus. A. M. Demuth. No. 54,835; Apr. 13; v. 273; p. 343.
Step-plate. E. E. Green. No. 55,605; July 6; v. 276; p. 159.
Stirring-rod or similar article. J. Hirsch. No. 55,861; July 20; v. 276; p. 552.
Store-front. J. Adler. No. 56,406; Oct. 26; v. 279; p. 684.
Store-front. M. Gillette. No. 54,908; Apr. 20; v. 273; p. 573.
Store-front. J. A. Harriss. No. 56,429; Oct. 26; v. 279; p. 688.
Stove. M. R. Lehman. Nos. 56,443–4; Oct. 26; v. 279; pp. 690–1.
Stove, Brooder-. J. R. Wotherspoon and F. E. Coatsworth. No. 56,732; Dec. 7; v. 281; p. 166.
Stove chimney, Oil-. A. Stockstrom. No. 54,699; Mar. 9; v. 272; p. 342.
Stove-door or similar article. E. P. Cole. No. 55,748; July 13; v. 276; p. 358.
Stove, Electric. W. B. Gilmer. No. 54,738; Mar. 23; v. 272; p. 688.
Stove, Gas-. A. H. Humphrey. Nos. 54,742–3; Mar. 23; v. 272; pp. 688–9.
Stove, Gas-. A. H. Humphrey. Nos. 55,173–8; May 18; v. 274; p. 556.
Stove, Heating-. G. F. Reznor. No. 54,770; Mar. 23; v. 271; p. 693.
Stove, Oil-. F. E. White. No. 56,111; Aug. 17; v. 277; p. 551.
Stove, Oil-burning. A. J. Kleckhefer. Nos. 56,436–7; Oct. 26; v. 279; p. 689.
Stove or range. T. E. Taylor. No. 54,703; Mar. 9; v. 272; p. 343.
Stove radiant, Gas-. W. D. Antrim. No. 55,231; May 25; v. 274; p. 769.
Street-direction and advertising device. H. J. Hickey and W. E. McMullan. No. 56,157; Aug. 24; v. 277; p. 742.
Suction-cleaner dust-bag. O. Brintzenhofe. No. 56,414; Oct. 26; v. 279; p. 685.
Sundae-holder. A. F. Saunders. No. 55,086; May 4; v. 274; p. 149.
Support. H. Kapneck. Nos. 55,796–7; July 13; v. 276; p. 367.
Support. H. H. Wolter. No. 55,925; July 20; v. 276; p. 564.
Surf-board. D. L. Ranlett. No. 55,079; May 4; v. 274; p. 147.
Swagger-stick. I. Eisenstein. No. 54,727; Mar. 23; v. 272; p. 686.
Swimming-belt. S. Kelso. No. 56,815; Dec. 28; v. 281; p. 747.
Swing. H. F. Peterman. No. 55,572; June 29; v. 275; p. 980.
Swing, Portable baby-. H. T. and E. J. Kingsbury. No. 55,384; June 1; v. 275; p. 163.
Switch base, Plural-pole entrance-. I. R. Seltzer. No. 55,090; May 4; v. 274; p. 149.
Switch base, Three-pole entrance-. T. A. Both. No. 54,525; Mar. 2; v. 272; p. 135.
Switch base, Three to two wire double-branch panel-. T. A. Both. No. 54,527; Mar. 2; v. 272; p. 135.
Switch base, Two-wire double-branch panel-. T. A. Both. No. 54,526; Mar. 2; v. 272; p. 135.
Switch-casing. A. C. Hulbert. No. 55,614; July 6; v. 276; p. 161.
Switch-casing. R. H. Rogers and P. O. Dorer. No. 55,820; July 13; v. 276; p. 372.
Switch-plate, Double toggle. W. J. Newton. No. 56,023; Aug. 10; v. 277; p. 339.
Switch-plate, Toggle. W. J. Newton. No. 56,022; Aug. 10; v. 277; p. 339.
Sword hilt and scabbard. C. P. Woodbury. No. 55,498; June 15; v. 275; p. 574.
Table. G. Poll. No. 55,884; July 20; v. 276; p. 556.
Table, Barber's combination work-. E. J. Nelson. No. 56,186; Aug. 24; v. 277; p. 747.
Table, Cabinet-. G. M. Valentine. No. 54,485; Feb. 10; v. 271; p. 319.
Table-centerpiece, Lace. M. H. Daudy. No. 54,386; Feb. 10; v. 271; p. 302.
Table or similar article. M. B. Lloyd. Nos. 56,182–3; Aug. 24; v. 277; p. 746.
Table, Physician's. T. Lidberg. No. 55,186; May 18; v. 274; p. 558.
Table, Portable serving-. A. Haskell. No. 55,945; Aug. 3; v. 277; p. 139.
Tableware article, Hollow china. J. B. McDonald. No. 55,067; May 4; v. 274; p. 145.
Tableware, Article of hollow. V. Gaertner. Nos. 55,160–4; May 18; v. 274; pp. 553–4.
Tableware, Article of hollow. V. Gaertner. Nos. 55,773–6; July 13; v. 276; pp. 363–4.
Tableware, Gallery-mount for hollow. V. Gaertner. Nos. 55,771–2; July 13; v. 276; p. 363.
Tablet, Medicinal. G. A. Shores. No. 56,478; Oct. 26; v. 279; p. 696.
Tablet, Memorial-. M. J. Healy. No. 54,414; Feb. 10; v. 271; p. 307.
Tablet, Memorial. J. R. Klepser. No. 55,800; July 13; v. 276; p. 368.
Tablet, Memorial. C. H. Sedell, C. C. Whelan, and M. Belfry. No. 55,089; May 4; v. 274; p. 149.

Tack, Luminous thumb-. J. M. Breen. No. 56,645; Nov. 23; v. 280; p. 750.
Talcum-powder box. F. X. Beckman. No. 56,264; Sept. 14; v. 278; p. 314.
Talcum-powder box. H. R. Corey. No. 54,604; Mar. 9; v. 272; p. 327.
Talcum-tin. M. H. Connor. No. 56,274; Sept. 14; v. 278; p. 315.
Talking-board movable member. W. Fuld. No. 56,001; Aug. 10; v. 277; p. 335.
Talking-board, Movable member of a. W. Fuld. No. 56,658; Nov. 23; v. 280; p. 752.
Talking-machine. J. A. Fern. Nos. 55,763–7; July 13; v. 276; pp. 361–2.
Talking-machine. E. H. McConnell. Nos. 56,291–8; Sept. 14; v. 278; pp. 318–19.
Talking-machine cabinet. C. L. Elmquist. No. 55,989; Aug. 10; v. 277; p. 333.
Talking-machine cabinet. H. B. Miles. No. 55,871; July 20; v. 276; p. 554.
Talking-machine-cabinet grill. W. F. Stolzenburg and H. R. Leubner. No. 55,726; July 6; v. 276; p. 179.
Talking-machine sound-conducting device. F. Cirelli. No. 55,025; May 4; v. 274; p. 138.
Talking-machine sound-conducting device. D. Di Carlo. No. 55,986; Aug. 10; v. 277; p. 332.
Talking-machine tone-arm. J. Wolff. No. 56,316; Sept. 14; v. 278; p. 322.
Talking-machines. R. L. Poe. No. 54,989; Apr. 27; v. 273; p. 766.
Talking-machines, Interchangeable motor-board for. J. J. Scully. No. 56,834; Dec. 28; v. 281; p. 750.
Tape. F. Wiberley. No. 55,348; May 25; v. 274; p. 789.
Teakettle or similar article. E. A. Farr. No. 56,555; Nov. 9; v. 280; p. 354.
Teapot or similar article of hollow ware. G. E. Ball. No. 55,738; July 13; v. 276; p. 356.
Telephone-support, Substation. E. A. Bohlman. No. 54,886; Apr. 20; v. 273; p. 569.
Tennis-racket press. A. A. Kraeuter. No. 56,525; Nov. 2; v. 280; p. 147.
Test-clip. R. S. Mueller. No. 55,524; June 22; v. 275; p. 778.
Thermometer. C. E. Erickson. No. 55,760; July 13; v. 276; p. 361.
Time-indicating device. H. L. Burross. No. 54,376; Feb. 10; v. 271; p. 301.
Time-table, advertising-board, and clock, Combined. J. L. Kahles. No. 54,927; Apr. 20; v. 273; p. 576.
Timepiece-dial. E. A. Marsh. Nos. 55,520–1; June 22; v. 275; p. 777.
Timepiece-dial. H. S. Montgomery. No. 54,950; Apr. 20; v. 273; p. 580.
Timepiece-dial. H. S. Montgomery. No. 55,523; June 22; v. 275; p. 777.
Timepiece-hands. F. A. Goodrow. Nos. 55,781–6; July 13; v. 276; pp. 365–6.
Timepiece-hands. L. M. Williams. No. 56,793; Dec. 14; v. 281; p. 378.
Tire. W. P. Braender. No. 56,688; Nov. 30; v. 280; p. 963.
Tire. J. G. Bretson. No. 56,413; Oct. 26; v. 279; p. 685.
Tire. J. Christy. No. 54,496; Feb. 17; v. 271; p. 506.
Tire. J. Christy. No. 54,598; Mar. 9; v. 272; p. 326.
Tire. J. Christy. No. 54,725; Mar. 23; v. 272; p. 686.
Tire. W. H. Clarke. No. 54,599; Mar 9; v. 272; p. 326.
Tire. V. Ehrlicher. No. 56,122; Aug. 24; v. 277; p. 735.
Tire. T. Follen. No. 55,600; July 6; v. 276; p. 158.
Tire. H. T. Gauss. No. 55,420; June 8; v. 275; p. 366.
Tire. C. W. Greene. No. 55,606; July 6; v. 276; p. 159.
Tire. W. H. Grote. No. 54,912; Apr. 20; v. 273; p. 574.
Tire. R. H. Holbrook. No. 56,158; Aug. 24; v. 277; p. 742.
Tire. I. V. Humphrey. No. 55,048; May 4; v. 274; p. 142.
Tire. E. J. Kraft. No. 55,132; May 11; v. 274; p. 360.
Tire. E. L. Lawlor. No. 55,287; May 25; v. 274; p. 779.
Tire. J. C. McLean. No. 54,647; Mar. 9; v. 272; p. 334.
Tire. J. C. McLean. No. 56,300; Sept. 14; v. 278; p. 319.
Tire. J. W. Mart. No. 56,620; Nov. 16; v. 280; p. 560.
Tire. C. E. Murray, Jr. Nos. 54,555–6; Mar. 2; v. 272; p. 140.
Tire. T. R. Palmer. No. 54,560; Mar. 2; v. 272; p. 141.
Tire. A. J. Pennington. Nos. 56,103–5; Aug. 17; v. 277; pp. 549–50.
Tire. E. A. Reid. No. 55,080; May 4; v. 274; p. 147.
Tire. A. B. Schleicher. No. 55,087; May 4; v. 274; p. 149.
Tire. W. Seabridge. No. 55,140; May 11; v. 274; p. 362.
Tire. F. W. Smith. No. 54,694; Mar. 9; v. 272; p. 341.
Tire. H. S. Rector. No. 56,766; Dec. 14; v. 281; p. 373.
Tire. J. Tenney, Jr. No. 55,100; May 4; v. 274; p. 151.
Tire. J. Tenney, Jr. No. 55,216; May 18; v. 274; p. 563.
Tire. E. A. Tinsman. No. 55,142; May 11; v. 274; p. 362.
Tire. E. A. Tinsman. Nos. 55,728–9; July 6; v. 276; pp. 179–80.
Tire. W. W. Wildman. No. 6,046; Aug. 10; v. 277; p. 343.
Tire, Automobile-. G. E. Batcheller. No. 55,585; July 6; v. 276; p. 156.
Tire, Automobile-. W. P. Braender. No. 54,373; Feb. 10; v. 271; p. 300.
Tire, Automobile-. A. S. Fox. No. 55,768; July 13; v. 276; p. 362.
Tire, Automobile-. J. B. Gabeline. No. 55,122; May 11; v. 274; p. 358.
Tire, Automobile-. J. B. Gabeline. No. 55,459; June 15; v. 275; p. 565.
Tire, Automobile-. C. J. Hodges. No. 54,740; Mar. 23; v. 272; p. 688.
Tire, Automobile-. C. W. McKone. No. 56,750; Dec. 14; v. 281; p. 370.
Tire, Automobile-. P. P. Parker. No. 54,955; Apr. 20; v. 273; p. 581.
Tire, Automobile-. O. H. Williams. No. 54,570; Mar. 2; v. 272; p. 143.
Tire-casing. M. S. Ackles. No. 56,490; Nov. 2; v. 280; p. 141.
Tire-casing. R. D. Belden. No. 55,586; July 6; v. 276; p. 156.
Tire-casing. F. S. Dickinson. No. 54,608; Mar. 9; v. 272; p. 327.
Tire-casing. R. Iredell. No. 56,282; Sept. 14; v. 278; p. 317.
Tire-casing. W. C. Owen. Nos. 55,813–15; May 25; v. 274; p. 783.
Tire-casing. W. C. Owen. No. 55,813; July 13; v. 276; p. 370.
Tire-casing. W. C. Owen. No. 56,468; Oct. 26; v. 279; p. 695.
Tire casing, Tread of a pneumatic-. J. L. Hanley. No. 55,171; May 18; v. 274; p. 555.
Tire-cover. P. M. Lockwood. No. 54,855; Apr. 13; v. 273; p. 347.
Tire-cover. P. M. Lockwood. No. 55,475; June 15; v. 275; p. 570.
Tire-cover. P. M. Lockwood. Nos. 55,803–4; July 13; v. 276; p. 360.
Tire-cover. P. M. Lockwood. No. 56,071; Aug. 10; v. 277; p. 347.
Tire, Elastic vehicle-. J. M. Alderfer. No. 56,260; Sept. 14; v. 278; p. 313.
Tire, Elastic vehicle-. J. W. Denmead. No. 54,534; Mar. 2; v. 272; p. 136.
Tire, Elastic vehicle-. J. W. Denmead. No. 55,416; June 8; v. 275; p. 366.
Tire, Elastic vehicle-. G. P. Hoffman. Nos. 54,919–21; Apr. 20; v. 273; p. 575.
Tire, Elastic vehicle-. L. B. Lyman. No. 54,758; Mar. 23; v. 272; p. 691.
Tire, Elastic vehicle-. F. A. Seebach. No. 54,691; Mar. 9; v. 272; p. 341.
Tire, Elastic vehicle-. F. E. Shannon. No. 55,091; May 4; v. 274; p. 149.
Tire, Elastic vehicle-. F. E. Shannon. No. 55,437; June 8; v. 275; p. 370.
Tire, Elastic vehicle-. E. H. Trump. No. 55,101; May 4; v. 274; p. 151.
Tire, Elastic vehicle-. E. H. Trump. No. 55,832; July 13; v. 276; p. 374.
Tire, Non-skid. W. E. Duersten. Nos. 55,118–19; May 11; v. 274; p. 357–8.
Tire, Non-skid. W. E. Duersten. No. 55,507; June 22; v. 275; p. 775.
Tire, Non-skid. W. E. Duersten. No. 55,987; Aug. 10; v. 277; p. 332.
Tire or similar article, Automobile-. J. J. Novak. Nos. 55,301–2; May 25; v. 274; p. 781.
Tire, Pneumatic. R. P. McElrath. No. 55,630; July 6; v. 276; p. 164.
Tire, Pneumatic. R. M. Pierson. No. 56,307; Sept. 14; v. 278; p. 320.
Tire, Pneumatic. E. O. Sterns. No. 54,698; Mar. 9; v. 272; p. 342.
Tire, Pneumatic. E. O. Sterns. No. 55,141; May 11; v. 274; p. 362.
Tire, Pneumatic. M. L. Wiener. No. 54,797; Mar. 23; v. 272; p. 697.
Tire rack, Automobile-. J. F. Brennan. No. 55,552; June 29; v. 275; p. 947.
Tire, Rubber. C. C. Gates. No. 54,408; Feb. 10; v. 271; p. 306.
Tire, Rubber. E. G. Hulse. No. 54,844; Apr. 13; v. 273; p. 345.
Tire shoe or tread, Pneumatic-. J. Martin. No. 54,434; Feb. 10; v. 271; p. 310.
Tire-tool. J. H. Shaull. No. 56,542; Nov. 2; v. 280; p. 150.
Tire-tread. M. L. A. A. Allard. No. 55,144; May 18; v. 274; p. 550.
Tire-tread. M. L. A. A. Allard. No. 56,113; Aug. 24; v. 277; p. 733.
Tire-tread. G. E. Bennie. No. 55,236; May 25; v. 274; p. 770.
Tire-tread. H. B. Bixler; No. 56,217; Aug. 31; v. 277; p. 936.
Tire-tread. A. L. Breitenstein. Nos. 55,146–7; May 18; v. 274; p. 551.
Tire-tread. A. L. Breitenstein. No. 55,364; June 1; v. 275; p. 159.

Digitized by Google

Alphabetical list of designs—Continued.

Tire-tread. A. L. Breitenstein. No. 55,411; June 8; v. 275; p. 365.
Tire-tread. W. O. Bruess. No. 55,588; July 6; v. 276; p. 156.
Tire-tread. W. B. Buckley. No. 54,592; Mar. 9; v. 272; p. 325.
Tire-tread. W. H. Clarke. No. 55,026; May 4; v. 274; p. 138.
Tire-tread. C. E. Eckrode. No. 54,536; Mar. 2; v. 272; p. 187.
Tire-tread. H. E. Grooms. No. 55,378; June 1; v. 275; p. 162.
Tire-tread. A. H. Harris. No. 54,412; Feb. 10; v. 271; p. 307.
Tire-tread. C. O. Henderson. Nos. 55,611–12; July 6; v. 276; p. 160.
Tire-tread. E. C. Hufford and W. S. Bates. No. 56,616; Nov. 16; v. 280; p. 559.
Tire-tread. H. Ives. No. 54,551; Mar. 2; v. 272; p. 189.
Tire-tread. W. Kline. No. 55,425; June 8; v. 275; p. 367.
Tire-tread. O. J. Kuhlke. No. 56,619; Nov. 16; v. 280; p. 559.
Tire-tread. J. C. McLean. No. 56,299; Sept. 14; v. 278; p. 319.
Tire-tread. W. H. Paull. No. 56,623; Nov. 16; v. 280; p. 560.
Tire-tread. H. E. Swan. No. 56,243; Aug. 31; v. 277; p. 941.
Tire-tread. J. D. Tew. No. 55,966; Aug. 3; v. 277; p. 142.
Tire-tread. C. J. Venn. No. 54,975; Apr. 20; v. 273; p. 584.
Tire-tread, Automobile. A. L. Breitenstein. No. 55,842; July 20; v. 276; p. 549.
Tire tread, Elastic-. E. O. Blekre. Nos. 54,521–3; Mar. 2; v. 272; p. 134.
Tire tread, Elastic-. E. O. Blekre. Nos. 54,580–3; Mar. 9; v. 272; p. 328.
Tire tread, Elastic-. E. O. Blekre. Nos. 56,265–71; Sept. 14; v. 278; pp. 314–15.
Tire tread, Elastic-. E. O. Blekre. No. 56,734; Dec. 14; v. 281; p. 367.
Tire tread, Elastic-. L. De Holczer. Nos. 54,624–5; Mar. 9; v. 272; p. 330.
Tire-tread, Non-skid. E. N. Downes. No. 55,506; June 22; v. 275; p. 774.
Tire-tread or similar article. G. C. McConnell. No. 55,190; May 18; v. 274; p. 559.
Tire tread, Pneumatic-. L. E. Kraft. No. 55,057; May 4; v. 274; p. 143.
Tire-treads. A. Heskett. No. 56,723; Dec. 7; v. 281; p. 165.
Tire, Vehicle-. A. L. Breitenstein. No. 54,720; Mar. 23; v. 272; p. 685.
Tire, Vehicle-. A. H. Rosenthal. No. 54,683; Mar. 9; v. 272; p. 339.
Tire, Vehicle-. A. L. Breitenstein. Nos. 55,239–40; May 25; v. 274; p. 771.
Tire, Vehicle-. A. L. Breitenstein. No. 56,691; Nov. 30; v. 280; p. 963.
Tire, Vehicle-. D. F. Crow. No. 55,414; June 8; v. 275; p. 365.
Tire, Vehicle-. G. C. Large. No. 55,059; May 4; v. 274; p. 148.
Tire, Vehicle-. G. N. Schell. No. 55,332; May 25; v. 274; p. 786.
Tire, Vehicle-. H. J. Smith. No. 55,094; May 4; v. 274; p. 150.
Tire, Wheel-. O. Basten. No. 54,576; Mar. 9; v. 272; p. 322.
Tires, Tread of vehicle-. J. A. McLane. No. 55,808; July 13; v. 276; p. 370.
Toilet article. J. G. Hollingsworth. No. 54,741; Mar. 23; v. 272; p. 688.
Token, Friendship-. M. V. Bauer. No. 55,447; June 15; v. 275; p. 565.
Tombstone. G. F. Eisenbrown. Nos. 56,276–9; Sept. 14; v. 278; p. 316.
Tone-arm. M. Borris. No. 55,449; June 15; v. 275; p. 566.
Tone-arm. P. Farb. No. 54,396; Feb. 10; v. 271; p. 304.
Tongs, Pair of. P. Kuzmjak. No. 55,385; June 1; v. 275; p. 163.
Tool. M. R. Dodge. No. 54,394; Feb. 10; v. 271; p. 304.
Tool, Combination-. C. Bachman. No. 54,365; Feb. 10; v. 271; p. 299.
Tool, Combination-. J. Barnes. No. 54,825; Apr. 13; v. 273; p. 342.
Tooth cleaning and polishing device. G. O. Burlew. No. 54,980; Apr. 27; v. 273; p. 764.
Toothbrush-casing. E. H. and E. K. Wiersching. No. 55,143; May 11; v. 274; p. 362.
Toothbrush-holder or similar toilet article. O. Kallander. No. 54,752; Mar. 23; v. 272; p. 690.
Toothpick-holder, Porcupine. A. Jardella. No. 55,794; July 13; v. 276; p. 367.
Top, Whipping-. R. G. A. Johanson. No. 56,364; Oct. 5; v. 279; p. 139.
Towel-bar. S. D. Baker. No. 55,354; June 1; v. 275; p. 157.
Towel, Terry. W. H. and A. E. Margerison. No. 56,824; Dec. 28; v. 281; p. 749.
Towel-urn. W. F. Koken. No. 55,129; May 11; v. 274; p. 359.
Toy. W. F. Bohannon. No. 56,338; Oct. 5; v. 279; p. 134.
Toy. I. Dunbar and F. Norris. No. 54,902; Apr. 20; v. 273; p. 572.
Toy. T. Lemborg. Nos. 56,445–6; Oct. 26; v. 279; p. 691.
Toy. W. F. Maas. No. 55,427; June 8; v. 275; p. 368.
Toy. J. A. Plant. No. 56,471; Oct. 26; v. 279; p. 695.
Toy. M. J. Rohr. No. 55,958; Aug. 3; v. 277; p. 141.
Toy. H. Rush. No. 54,456; Feb. 10; v. 271; p. 314.
Toy. N. Segawa. No. 55,720; July 6; v. 276; p. 178.
Toy. M. E. Shugg. No. 54,963; Apr. 20; v. 273; p. 582.
Toy. J. Tabara. No. 55,083; May 4; v. 274; p. 148.
Toy, Aerial. S. N. Juthe and S. H. Lang. No. 56,171; Aug. 24; v. 277; p. 744.
Toy aeroplane. C. W. Bennett. No. 54,885; Apr. 20; v. 273; p. 569.
Toy aeroplane. E. Monteleone. No. 56,185; Aug. 24; v. 277; p. 747.
Toy aeroplane. L. B. Nicholas. No. 54,860; Apr. 13; v. 273; p. 348.
Toy aeroplane. L. B. Nicholas. No. 55,075; May 4; v. 274; p. 147.
Toy aeroplane. H. T. Pratt and E. C. West. No. 54,768; Mar. 23; v. 272; p. 693.
Toy animal. J. B. Gruelle. Nos. 56,608–9; Nov. 16; v. 280; p. 558.
Toy, Animal. J. M. Hollister. No. 56,161; Aug. 24; v. 277; p. 742.
Toy animal. L. S. Malone. Nos. 54,940–2; Apr. 20; v. 273; p. 578.
Toy animal. K. Pasecky. No. 55,078; May 4; v. 274; p. 147.
Toy animal. B. and B. Squier. No. 55,963; Aug. 3; v. 277; p. 142.
Toy automobile. C. W. Bennett. No. 56,800; Dec. 28; v. 281; p. 744.
Toy automobile. H. W. A. Fuhrmann. No. 55,032; May 4; v. 274; p. 139.
Toy automobile. B. W. Spitler. 55,722; July 6; v. 276; p. 178.
Toy ball. F. A. Cigol. No. 55,413; June 8; v. 275; p. 365.
Toy bed. J. M. Hollister; No. 56,160; Aug. 24; v. 277; p. 742.
Toy bird. L. S. Malone. Nos. 54,948–4; Apr. 20; v. 273; p. 579.
Toy block. E. Bratton. No. 55,587; July 6; v. 276; p. 156.
Toy car. F. R. Baier. Nos. 55,009–12; Apr. 27; v. 273; p. 770.
Toy car for children. S. Klein. No. 56,438; Oct. 26; v. 279; p. 689.
Toy chair. M. L. Greenstreet. No. 55,607; July 6; v. 276; p. 159.
Toy chair. J. M. Hollister. No. 56,159; Aug. 24; v. 277; p. 742.
Toy, Child's. S. Orkin. No. 54,765; Mar. 23; v. 272; p. 692.
Toy, Clown. P. W. Munson. No. 56,705; Nov. 30; v. 280; p. 966.
Toy, Figure. L. Morse. No. 55,810; July 13; v. 276; p. 370.
Toy figure. F. K. Reynolds. No. 55,886; July 20; v. 276; p. 557.
Toy figure, Mechanical. H. W. L. Herbert. No. 55,563; June 29; v. 275; p. 979.
Toy, Flying. W. H. Van Shrum. No. 55,102; May 4; v. 274; p. 151.
Toy, Flying. W. H. Van Shrum. No. 55,732; July 6; v. 276; p. 180.
Toy, Flying. W. H. V. Shrum. No. 56,772; Dec. 14; v. 281; p. 374.
Toy flying-machine. J. De Leo. No. 54,389; Feb. 10; v. 271; p. 303.
Toy garage. O. R. Payne. No. 55,485; June 15; v. 275; p. 572.
Toy gun. J. E. Hoy. No. 56,615; Nov. 16; v. 280; p. 559.
Toy horn. F. S. Moore. No. 56,832; Dec. 28; v. 281; p. 750.
Toy jingle-hoop. B. B. Brown. No. 55,412; June 8; v. 275; p. 365.
Toy known as a go-beel. A. L. Greenfield. No. 55,036; May 4; v. 274; p. 140.
Toy lamp-post. G. Corey. Nos. 56,416–17; Oct. 26; v. 279; p. 685.
Toy locomotive. T. Klippel. No. 55,567; June 29; v. 275; p. 979.
Toy magazine-gun. B. M. Griffith. No. 56,063; Aug. 10; v. 277; p. 346.
Toy motion-picture machine. I. Marks. No. 55,107; May 4; v. 274; p. 152.
Toy rattle. C. H. Pajeau. No. 55,880; July 20; v. 276; p. 556.
Toy, Rocker. P. W. Munson. No. 56,706; Nov. 30; v. 280; p. 966.
Toy rocker. L. F. and O. G. Noirot. No. 55,429; June 8; v. 275; p. 368.
Toy, Roller. P. W. Munson. No. 54,760; Mar. 23; v. 272; p. 691.
Toy, Spinning. A. Gartner. No. 54,407; Feb. 10; v. 271; p. 306.
Toy top. A. E. Sandstrom. No. 54,457; Feb. 10; v. 271; p. 314.

Digitized by Google

Alphabetical list of designs—Continued.

Toy top. A. E. Sandstrom. No. 55,084; May 4; v. 274; p. 148.
Toy vehicle. H. W. Case. No. 56,415; Oct. 26; v. 279; p. 685.
Toy vehicle. R. C. Cashner. No. 56,522; Nov. 2; v. 280; p. 146.
Toy vehicle. G. A. Connor. No. 54,380; Feb. 10; v. 271; p. 301.
Toy vehicle. A. S. Jones. No. 56,559; Nov. 9; v. 280; p. 355.
Toy vehicle. W. R. Peoples. No. 55,317; May 25; v. 274; p. 784.
Toy vehicle. W. R. Peoples. Nos. 55,433–4; June 8; v. 275; p. 369.
Toy vehicle. A. H. Stamm. No. 54,872; Apr. 13; v. 273; p. 350.
Toy vehicle. F. Starr. No. 55,725; July 6; v. 276; p. 179.
Toy vehicle. J. C. Welch. No. 55,445; June 8; v. 275; p. 371.
Toy vehicle. J. C. Welch. No. 55,580; June 29; v. 275; p. 982.
Toy vehicle. G. E. Worth. No. 55,970; Aug. 3; v. 277; p. 143.
Toy vehicle, Child's. R. F. Kuns. No. 54,933; Apr. 20; v. 273; p. 577.
Toy-vehicle wheel. A. C. Gilbert. No. 56,136; Aug. 24; v. 277; p. 738.
Toy wagon. E. H. Badgley. Nos. 55,838–9; July 20; v. 276; p. 548.
Toy wheelbarrow. A. C. Gilbert. No. 55,376; June 1; v. 275; p. 161.
Toy wheelbarrow. E. Gillam. No. 56,003; Aug. 10; v. 277; p. 336.
Toy wheelbarrow. V. Unte. No. 55,578; June 29; v. 275; p. 982.
Toy, Wheeled. M. C. P. Parker. No. 56,469; Oct. 26; v. 279; p. 695.
Trace link, Chain-. E. P. Belz. No. 55,117; May 11; v. 274; p. 357.
Tractor. A. H. Blake. No. 54,371; Feb. 10; v. 271; p. 300.
Tractor. R. L. Williamson. No. 55,225; May 18; v. 274; p. 564.
Trail-marker. J. B. Blair. No. 55,022; May 4; v. 274; p. 137.
Trash-receptacle and advertising medium, Combined. G. J. Richardson. Nos. 54,676–7; Mar. 9; v. 272; p. 338.
Tray. D. G. Dowling. No. 55,369; June 1; v. 275; p. 160.
Tray and cigar-lighter, Ash-. G. M. Minton. No. 54,651; Mar. 9; v. 272; p. 335.
Tray and cigar-lighter, Ash-. G. M. Minton. No. 54,655; Mar. 9; v. 272; p. 335.
Tray and match-picker, Ash-. F. Hille. No. 54,623; Mar. 9; v. 272; p. 330.
Tray, Cigar and cigarette. G. M. Minton. No. 54,652; Mar. 9; v. 272; p. 335.
Tray. Combination dinner-. J. H. Thompson. No. 54,971; Apr. 20; v. 273; p. 584.
Tray or similar article, Bread-. V. Gaertner. No. 55,770; July 13; v. 276; p. 362.
Tray, Smoker's. G. M. Minton. Nos. 54,649–50; Mar. 9; v. 272; p. 335.
Tray, Smoker's. G. M. Minton. Nos. 54,653–4; Mar. 9; v. 272; p. 335.
Tray, Smoker's. G. M. Minton. Nos. 54,656–61; Mar. 9; v. 272; p. 336.
Tray, Smoker's. G. M. Minton. Nos. 54,665–6; Mar. 9; v. 272; p. 337.
Tray, Tool-. G. M. Taylor. No. 55,492; June 15; v. 275; p. 573.
Tray, Utility-. J. Beiswanger. No. 56,335; Oct. 5; v. 279; p. 134.
Trousers and boot, Combined. W. L. Fry. No. 55,856; July 20; v. 276; p. 552.
Truck, Barrel-. T. E. Jordan. No. 56,284; Sept. 14; v. 278; p. 317.
Tumbler-holder. W. P. Pondelicek. No. 56,565; Nov. 9; v. 280; p. 356.
Turning tool, Crank-pin-. A. Weber. No. 56,791; Dec. 14; v. 281; p. 377.
Type, Font of. F. W. Goudy. No. 55,267; May 25; v. 274; p. 776.
Type, Font of Syriac. S. A. Jacobs. Nos. 55,049–51; May 4; v. 274; p. 142.
Typewriter-frame. S. K. Ouzoun-Boghossian. Nos. 55,811–2; July 13; v. 276; p. 370.
Typewriting-machine frame. M. Garbell. No. 56,002; Aug. 10; v. 277; p. 335.
Typewriting-machine frame. W. F. Helmond. No. 55,381; June 1; v. 275; p. 162.
Umbrella or parasol handle. W. M. Follmer. No. 55,264; May 25; v. 274; p. 775.
Undergarment. M. P. Brown. No. 54,723; Mar. 23; v. 272; p. 685.
Undergarment, Lady's. C. I. Pilling. No. 56,379; Oct. 5; v. 279; p. 141.
Upholstering-pin. F. L. Becker. No. 56,580; Nov. 16; v. 280; p. 553.
Urinal-stall. F. J. Wolff. No. 54,493; Feb. 10; v. 271; p. 320.
Urn, Garden-. C. E. Jenkins. No. 55,864; July 20; v. 276; p. 553.
Vacuum apparatus, Therapeutic. W. W. Chase. No. 55,452; June 15; v. 275; p. 566.
Vacuum-cleaner casing. W. H. Upton. No. 56,393; Oct. 5; v. 279; p. 144.
Valve, Balloon-. J. S. Maxwell. No. 55,135; May 11; v. 274; p. 361.
Valve-spring compressor. C. H. Newton. No. 56,706; Nov. 30; v. 280; p. 966.
Valves, Handle for muffler-. A. R. Cooper. No. 55,846; July 20; v. 276; p. 550.
Vanity-case, Lady's. A. C. Fisher. No. 55,852; July 20; v. 276; p. 551.
Vase. T. G. Jones. No. 54,926; Apr. 20; v. 273; p. 576.
Vase-holder, Automobile. W. Kenner. No. 56,006; Aug. 10; v. 277; p. 336.
Vehicle-body. F. Kiehler. No. 54,422; Feb. 10; v. 271; p. 308.
Vehicle-body. H. C. Maise. Nos. 54,645–6; Mar. 9; v. 272; p. 334.
Vehicle-body. W. H. Schelm. No. 54,687; Mar. 9; v. 272; p. 340.
Vehicle-body. J. Silverstein. No. 54,870; Apr. 13; v. 273; p. 350.
Vehicle, Child's. H. R. Keeney. No. 55,054; May 4; v. 274; p. 143.
Vehicle, Child's. L. F. and O. G. Noirot. No. 55,874; July 20; v. 276; p. 555.
Vehicle, Child's. C. O. and W. M. Roberts. No. 55,328; May 25; v. 274; p. 786.
Vehicle, Child's. E. S. Showers. No. 56,479; Oct. 26; v. 279; p. 697.
Vehicle, Child's. J. Van Wuyckhuyse. No. 56,207; Aug. 24; v. 277; p. 750.
Vehicle-chock. F. M. Keeton. No. 56,286; Sept. 14; v. 278; p. 317.
Vehicle, Juvenile. J. H. Dixon. No. 55,417; June 8; v. 275; p. 366.
Vehicle, Motor-. C. M. Billings. No. 54,368; Feb. 10; v. 271; p. 299.
Vehicle, Motor-. P. M. Smith. No. 54,695; Mar. 9; v. 272; p. 341.
Vehicle, Motor-. P. M. Smith. Nos. 55,440–2; June 8; v. 275; p. 370.
Vehicle, Motor-driven. H. Pelland. No. 54,674; Mar. 9; v. 272; p. 338.
Vehicle, Power-driven delivery-. W. A. Doble. No. 54,609; Mar. 9; v. 272; p. 328.
Vehicle-shackle. E. E. Chapman. No. 54,377; Feb. 10; v. 271; p. 301.
Vehicle-top. W. C. Sweet. No. 54,700; Mar. 9; v. 272; p. 342.
Vehicle-wheel chock. F. M. Keeton. No. 56,285; Sept. 14; v. 278; p. 317.
Vehicles of the Ford type, Speedway-body for motor-. E. D. Morton. No. 54,668; Mar. 9; v. 272; p. 337.
Vehicles, Radiator-shell for motor-. W. W. Simpson. No. 55,822; July 13; v. 276; p. 372.
Vehicles, Steering-wheel for. C. H. Eldon. No. 55,456; June 15; v. 275; p. 567.
Velocipede, Child's. V. E. and O. L. La Vanway. No. 55,865; July 20; v. 276; p. 553.
Vending and display stand, Combined. M. Metzger. No. 55,809; July 13; v. 276; p. 370.
Vending-cabinet. E. C. Booth. No. 55,742; July 13; v. 276; p. 357.
Vending-machine. J. H. Egan. No. 55,848; July 20; v. 276; p. 550.
Vending-machine case. H. C. Traute. No. 56,038; Aug. 10; v. 277; p. 342.
Vending-machine casing. F. R. Greene. No. 55,268; May 25; v. 274 p. 776.
Vending-machine casing. F. R. Greene. No. 56,251; Sept. 7; v. 278; p. 186.
Vent-box cover. J. L. Fritz. No. 54,735; Mar. 23; v. 272; p. 687.
Vent connection. E. F. Klemme. No. 56,439; Oct. 26; v. 279; p. 690.
Votive stand. M. A. Flannery. No. 56,059; Aug. 10; v. 277; p. 345.
Wagon, Boy's. R. Larson. No. 55,060; May 4; v. 274; p. 144.
Wagon-skein. W. Kautt. No. 54,632; Mar. 9; v. 272; p. 332.
Wall-bracket. F. K. Maers. No. 55,390; June 1; v. 275; p. 164.
Wall-bracket, Electric. F. A. Frerichs. Nos. 56,131–2; Aug. 24; v. 277; p. 737.
Wall-coping. J. C. Mueller. No. 56,704; Nov. 30; v. 280; p. 966.
Wall-post. S. D. Baker. Nos. 54,574–5; Mar. 9; v. 272; p. 322.
Washboard. J. A. Skeens. No. 56,773; Dec. 14; v. 281; p. 374.
Washing-machine. H. W. Eden. No. 55,371; June 1; v. 275; p. 160.
Washing-machine. W. K. Howe. No. 54,842; Apr. 13; v. 273; p. 345.
Washing-machine case. W. H. Meyer. No. 54,441; Feb. 10; v. 271; p. 311.
Washtub. L. H. Thralls. No. 56,638; Nov. 16; v. 280; p. 563.
Watch-bow. A. M. Dueber. No. 55,029; May 4; v. 274; p. 139.

Digitized by Google

Alphabetical list of designs—Continued.

Watch, Calendar-. M. Szapiak. No. 56,637; Nov. 16; v. 280; p. 562.
Watch case and bow. J. McGrevy. No. 55,136; May 11; v. 274; p. 361.
Watch case and bow. J. McGrevy. No. 55,870; July 20; v. 276; p. 554.
Watch-charm. W. E. Osborn. No. 56,563; Nov. 9; v. 280; p. 356.
Watch-dial. F. A. Goodrow. No. 56,099; Aug. 17; v. 277; p. 549.
Watch-dial. F. A. Goodrow. Nos. 56,422–6; Oct. 26; v. 279; p. 687.
Watch-fob, locket, or pendant. H. Allen. No. 55,735; July 13; v. 276; p. 356.
Watch-movements, Bridge-plate for. C. F. Colomb. No. 54,981; Apr. 27; v. 273; p. 764.
Watch-movements, Top plate for. A. Friedman. No. 55,265; May 25; v. 274; p. 775.
Watch or clock dial. P. Thamm. No. 56,731; Dec. 7; v. 281; p. 166.
Watch-stand. L. M. Giroux. No. 55,035; May 4; v. 274; p. 140.
Watchcase. A. W. Wadsworth. Nos. 56,787–8; Dec. 14; v. 281; p. 377.
Watchcase-bow. L. M. Williams. Nos. 56,794–6; Dec. 14; v. 281; p. 378.
Watchcase-crown. A. W. Wadsworth. No. 56,789; Dec. 14; v. 281; p. 377.
Watchcase, medal, or similar article. A. Wiss. No. 54,492; Feb. 10; v. 271; p. 320.
Watchcase or locket. J Daving. Nos. 54,532–3; Mar. 2; v. 272; p. 136.
Water-heater casing. R. J. Hutchins. No. 55,179; May 18; v. 274; p. 557.
Weeder. J. Gilson, Sr. No. 55,601; July 6; v. 276; p. 158.
Wheel-body. L. J. Rickard. No. 54,679; Mar. 9; v. 272; p. 339.
Wheel-hub. T. C. Burns and F. K. Huffman. No. 56,220; Aug. 31; v. 277; p. 937.
Wheel, Metal. M. Lachman. No. 55.801; July 13; v. 276; p. 368.
Wheel, Pneumatic metal. H. E. and P. R. Simmons. No. 54,564; Mar. 2; v. 272; p. 141.
Wheel, Vehicle-. R. R. Romney. No. 54,681; Mar. 9; v. 272; p. 339.
Wheel, Vehicle-. R. Stock. Nos. 56,712–3; Nov. 30; v. 280; p. 967.
Wind-deflector. R. C. Shaw. No. 55,489; June 15; v. 275; p. 573.
Wind instrument, Bell for a brass-. F. Cheney. No. 55,149; May 18; v. 274; p. 551.
Windshield. C. D. Keller. No. 55,618; July 6; v. 276; p. 162.
Windshield. A. C. Lillie. No. 55,288; May 25; v. 274; p. 779.
Windshield. A. C. Lillie. No. 55,802; July 13; v. 276; p. 369.
Windshield. F. S. Tew. No. 55,897; July 20; v. 276; p. 558.
Windshield, Automobile-. W. W. Walton. No. 55,444; June 8; v. 275; p. 371.
Windshield, Tonneau-. A. Williams. No. 56,546; Nov. 2; v. 280; p. 151.
Windshield-wiper. W. H. Minier. No. 56,762; Dec. 14; v. 281; p. 372.
Window. J. Sowalski. No. 55,539; June 22; v. 275; p. 780.
Window, Auto-curtain. R. Haley. No. 55,379; June 1; v. 275; p. 162.
Window-frame holdfast. W. W. Sleight. Nos. 54,965–6; Apr. 20; v. 273; p. 583.
Window-frames, Bolt for. W. W. Sleight. No. 55,438; June 8; v. 275; p. 370.
Window-frames, Holdfast for. W. W. Sleight. No. 55,439; June 8; v. 275; p. 370.
Wire wheel. T. A. Bowers. Nos. 54,586–8; Mar. 9; v. 272; p. 324.
Wrap-hanger, Portable. J. M. Carter No. 56,339; Oct. 5; v. 279; p. 134.
Wreath. L. Koropp and V. F. Bergman. No. 55,621; July 6; v. 276; p. 162.
Wreath, Wax floral. L. D. Singer. No. 56,631; Nov. 16; v. 280; p. 561.
Wrench. A. B. Carll. No. 55,591; July 6; v. 276; p. 157.
Wrench. G. E. Williams. No. 54,673; Mar. 9; v. 272; p. 338.
X-ray dental apparatus, Cabinet for. W. H. Thwaites. No. 54.875; Apr. 13; v. 273; p. 350.
Yoke, Draft-. D. S. Barrows. No. 56,491; Nov. 2; v. 280; p. 141.

ALPHABETICAL LIST OF TRADE-MARKS.

Abrasive, detergent, and polishing materials. Chelsea Engineering Sales Corporation. No. 134,905; Sept. 21; v. 278; p. 530.
Abrasive, detergent, and polishing materials. De Nordiske Fabriker De No Fa Aktieselskab. No. 133,631; Aug. 3; v. 277; p. 171.
Abrasive devices for use on commutators of electric machines. J. W. Becker. No. 133,579; Aug. 3; v. 277; p. 169.
Abrasive products. Norton Company. No. 128,474; Jan. 6; v. 270; p. 183.
Abrasives. American Abrasive Company. No. 130,603; May 4; v. 274; p. 181.
Abrasives coated on cloth or paper, or both. Manning Abrasive Co. No. 136,527; Nov. 2; v. 280; p. 184.
Abrasives in comminuted form. The Exolon Company. Nos. 135,666–7; Oct. 19; v. 279; p. 527.
Account-books, Bank-deposit. F. A. Gesell. No. 130,730; May 4; v. 274; p. 175.
Accountants' books. A. van Sand. No. 131,256; May 4; v. 274; p. 201.
Accounting-forms. J. H. Greenhalgh & Company. No. 134,669; Sept. 14; v. 278; p. 356.
Acetylene cutting and welding machines and lighting plants, steam-boilers. Allied Machinery Company of America. No. 132,872; July 6; v. 276; p. 199.
Acetylene gas. Gas-Products Co. No. 128,708; Jan. 13; v. 270; p. 338.
Acetylene gas and carbid. Gas Tank Recharging Co. No. 129,723; Mar. 9; v. 272; p. 363.
Acid, Carbolic. A/S Det Almindelige Handelskompagni. No. 132,665; June 29; v. 275; p. 1015.
Acid, Sulfuric. Collinsville Zinc Corporation. No. 131,292; May 11; v. 274; p. 399.
Acids and uric acid in the blood, Neutralizing solvent and eliminant of retained amino. S. B. Ganow. No. 138,262; Dec. 21; v. 281; p. 564.
Acoustic properties of auditoriums, Altering the. J. Mazer. No. 137,332; Nov. 23; v. 280; p. 796.
Adding and calculating machines. Victor Adding Machine Co. No. 128,891; Jan. 13; v. 270; p. 344.
Adding, listing, and calculating machines. Wales Adding Machine Company. No. 134,199; Aug. 17; v. 277; p. 582.
Adhesive. F. W. Tunnell & Company. No. 128,548; Jan. 6; v. 270; p. 185.
Adhesive cements and mastics, paper, cloth, fabric, &c. A. C. Fischer. No. 136,803; Nov. 9; v. 280; p. 379.
Adhesive compound for mending automobile-radiators, &c. H. R. Pendleton. No. 134,264; Aug. 24; v. 277; p. 778.
Adhesive liquid composition used in the repair and patching of rubber, leather, &c. A. J. Tomlinson. No. 137,885; Dec. 7; v. 281; p. 199.
Adhesives. Automotive Supply Company. No. 128,295; Jan. 6; v. 270; p. 177.
Adhesives. Dewey & Almy Chemical Company. No. 135,366; Sept. 28; v. 278; p. 706.
Adhesives. Great Western Products Co. Nos. 131,764–5; May 25; v. 274; p. 831.
Adhesives. The Northwestern Chemical Co. No. 129,035; Jan. 20; v. 270; p. 475.
Advertising apparatus. W. L. Clark Company. No. 133,384; July 27; v. 276; p. 768.
Advertising display apparatus, Electric. C. D. Oversmith. No. 130,856; May 4; v. 274; p. 189.
Advertising-folders. Bert L. White Company. No. 129,927; Mar. 9; v. 272; p. 370.
Aeroplane covers and tents. Handley Page Limited. No. 132,956; July 6; v. 276; p. 101.
Aeroplane-dope. Pratt & Lambert. No. 131,580; May 18; v. 274; p. 607.
Aeroplane packing cases and crates. Handley Page Limited. No. 133,695; Aug. 3; v. 277; p. 173.
Aeroplanes and parts, air-screws, &c. A. V. Roe & Co., Ltd. No. 130,395; Apr. 20; v. 273; p. 623.
Aeroplanes and parts thereof. Rubay Company. No. 132,046; June 8; v. 275; p. 416.
Aggregate for use in preparing concrete. American Aggregate Company. No. 135,380; Oct. 12; v. 279; p. 341.
Agricultural and earthworking implements. Wyoming Shovel Works. No. 128,584; Jan. 6; v. 270; p. 186.
Agricultural implements. Burch Plow Works Company. No. 133,600; Aug. 3; v. 277; p. 170.
Agricultural machinery. Massey-Harris Harvester Co. No. 130,361; Apr. 20; v. 273; p. 622.
Agricultural machinery and knife and tool grinders. B. F. Avery & Sons. No. 137,768; Dec. 7; v. 281; p. 195.
Agricultural machines and parts. B. F. Avery & Sons. No. 137,938; Dec. 14; v. 281; p. 395.
Aid for kidney and bladder ailments. C. A. Dachsel & Son. No. 129,668; Mar. 9; v. 272; p. 362.
Air-compressor equipments and parts thereof, Unitary. The United States Air Compressor Co. No. 133,193; July 13; v. 276; p. 404.
Air-compressors, Vacuum heating-pumps, &c. Nash Engineering Company. No. 129,190; Jan. 27; v. 270; p. 615.

Digitized by Google

Air-conditioning apparatus, air-driers, &c. W. L. Fleisher & Co. No. 134,649; Sept. 14; v. 278; p. 355.
Air-heating apparatus and parts therefor, Electrical. P. J. H. Bernard. No. 136,322; Nov. 2; v. 280; p. 178.
Air-rifles, sleds, boys' express-wagons, and coaster-wagons. Harper & McIntire Company. No. 137,255; Nov. 23; v. 280; p. 794.
Aircraft, Aircraft-seats, cover-clips, &c., for. A. V. Roe & Co. No. 130,231; Apr. 13; v. 273; p. 403.
Aircraft, Automatic. G. L. Martin. No. 130,210; Apr. 13; v. 273; p. 403.
Airplane-propellers. G. W. Hartzell. No. 132,700; June 29; v. 275; p. 1016.
Alcohol, Ethyl. U. S. Industrial Alcohol Co. No. 131,861; May 25; v. 274; p. 834.
Alcohol, Ethyl. U. S. Industrial Alcohol Co. No. 132,063; June 8; v. 275; p. 416.
Alcohol, Ethyl. U. S. Industrial Alcohol Co. No. 133,069; July 6; v. 276; p. 205.
Alcohol, Isopropyl. Standard Oil Company. No. 134,818; Sept. 14; v. 278; p. 360.
Alcohol, Methyl. The Will Corporation. No. 132,591; June 22; v. 275; p. 825.
Alcohol, Non-beverage grain. The George Weidemann Company. No. 136,702; Nov. 2; v. 280; p. 190.
Alimentary pastes. A. Zerega's Sons (Consolidated). No. 136,715; Nov. 2; v. 280; p. 190.
Alkaline antiseptic, germicide, &c., preparation. R. M. Seibel. No. 136,183; Oct. 26; v. 279; p. 724.
Alloy, Ferrotungsten. The Continuous Reaction Comp'y. No. 137,021; Nov. 16; v. 280; p. 583.
Alloy rolls for rolling-mills, &c. Philadelphia Roll & Machine Company. No. 130,865; May 4; v. 274; p. 189.
Alloy wire for electrical purposes. J. E. Dockendorff & Co. No. 133,120; July 13; v. 276; p. 401.
Alloys. Hoskins Manufacturing Company. Nos. 128,405–6; Jan. 6; v. 270; p. 181.
Alloys, Aluminum. Continental Castings Corp. No. 134,163; Aug. 17; v. 277; p. 581.
Alloys and steel and iron castings and forgings, Metal. C. Vos. No. 136,684; Nov. 2; v. 280; p. 189.
Alloys, Base-metal. W. W. Holland. No. 134,970; Sept. 21; v. 278; p. 532.
Alloys, Base-metal. H. C. Kirk. No. 135,475; Oct. 12; v. 279; p. 344.
Alloys containing nickel and aluminum. Hoskins Manufacturing Company. Nos. 128,737–8; Jan. 13; v. 270; p. 339.
Alloys, Cupronickel. Branford Electric Company. Nos. 137,017–18; Nov. 16; v. 280; p. 583.
Alloys, Ferro. United States Ferro Alloys Corporation. No. 136,678; Nov. 2; v. 280; p. 189.
Alloys, Ferronickel. Branford Electric Company. No. 137,018; Nov. 16; v. 280; p. 583.
Alloys, Ferrovanadium. The Colorado Vanadium Corporation. No. 137,161; Nov. 23; v. 280; p. 791.
Alloys, Light-metal. Light Metals Co. No. 130,539; Apr. 27; v. 273; p. 803.
Alloys, Non-ferrous. United American Metals Corporation. No. 134,454; Aug. 31; v. 277; p. 974.
Alloys, Non-ferrous. United American Metals Corporation. No. 136,731; Nov. 2; v. 280; p. 192.
Alloys of copper, tin, zinc, &c. Phosphor Bronze Smelting Company. No. 132,484; June 22; v. 275; p. 821.
Alloys of copper, tin, zinc, &c. The Phosphor Bronze Smelting Company. No. 133,175; July 13; v. 276; p. 403.
Alloys, Zinc. New Haven Sherardizing Company. No. 138,196; Dec. 14; v. 281; p. 406.
Almond jelly, scalp-salve, rouge, &c. Ponce De Leon Beauty Preparations Inc. No. 129,385; Feb. 17; v. 271; p. 509.
Alterative and a medicine used in the treatment of certain named diseases. The Dutt Drug Company. No. 135,657; Oct. 19; v. 279; p. 527.
Aluminum coffee and tea pots, frying-pans, &c. Western Pattern Works. No. 137,415; Nov. 23; v. 280; p. 798.
Aluminum household and cooking utensils. American Aluminum Company. No. 129,257; Feb. 10; v. 271; p. 355.
Aluminum-polish. F. G. Stewart. No. 134,093; Aug. 10; v. 277; p. 391.
Ammonia-absorbent. M. Yablick. No. 129,569; Feb. 24; v. 271; p. 682.
Ammonia, bluing, bleaching preparation, and disinfectant. Elberfeld Chemical & Mfg. Co. No. 134,936; Sept. 21; v. 278; p. 531.
Amusement devices. Orotech Manufacturing Co. No. 135,295; Sept. 28; v. 278; p. 704.
Amusement devices. W. N. Ridgway. No. 130,883; May 4; v. 274; p. 189.
Analgesic and antipyretic. The Bayer Company. Nos. 134,891–2; Sept. 21; v. 278; p. 529.
Anesthetics. The Abbott Laboratories. No. 138,409; Dec. 28; v. 281; p. 781.
Anesthetics. H. A. Metz Laboratories. No. 131,346; May 11; v. 274; p. 401.
Anesthetics, Local. J. A. Klein. No. 136,499; Nov. 2; v. 280; p. 183.
Anesthetics, Local. Novocol Chemical Mfg. Co. No. 134,520; Sept. 7; v. 278; p. 160.
Anhydrous salts, Compound. Darwin & Milner. No. 128,354; Jan. 6; v. 270; p. 179.
Anilins and dyestuffs. W. R. Grace & Co. No. 135,393; June 22; v. 275; p. 818.
Anodyne, antiseptic, and local anesthetic. Tilden Company. No. 131,852; May 25; v. 274; p. 834.
Anti-epileptic, anticephalalgic, hypnotic, and sedative preparations. The Eli Lilly & Company. No. 131,747; May 25; v. 274; p. 831.
Anti-hog-cholera serum. C. B. Simmons. No. 129,538; Feb. 24; v. 271; p. 681.
Antirust slushing compounds. Corol Company. No. 129,443; Feb. 24; v. 271; p. 678.
Antiseptic. The Delano Company. No. 138,444; Dec. 28; v. 281; p. 782.
Antiseptic alkaline solution for treating inflamed conditions of the nose, throat, and mouth. R. F. Burnham. No. 135,622; Oct. 19; v. 279; p. 526.
Antiseptic and astringent. E. G. Hancock. No. 134,370; Aug. 31; v. 277; p. 972.
Antiseptic and disinfectant. Lehn & Fink. No. 128,764; Jan. 13; v. 270; p. 340.
Antiseptic and disinfectant for sick-rooms, &c. Kali Manufacturing Co. No. 134,509; Sept. 7; v. 278; p. 160.
Antiseptic and germicide. H. L. Oxman. No. 136,886; Nov. 9; v. 280; v. 318.
Antiseptic astringent deodorant. Rhea Chemical Company. No. 132,503; June 22; v. 275; p. 822.
Antiseptic demulcent corrective. Burwell & Dunn Co. No. 132,312; June 22; v. 275; p. 816.
Antiseptic, disinfectant, &c. American Laboratories. No. 128,599; Jan. 13; v. 270; p. 335.
Antiseptic for infections. H. H. Hall. No. 138,462; Dec. 28; v. 281; p. 782.
Antiseptic for use in the nose. J. O. Beauchamp. No. 132,295; June 22; v. 275; p. 815.
Antiseptic, germicide, &c. Proper Antiseptic Laboratory. No. 128,827; Jan. 13; v. 270; p. 342.
Antiseptic germicide and deodorant. C. L. Stocks. No. 132,544; June 22; v. 275; p. 823.
Antiseptic liquid. F. E. Barr & Company. No. 128,618; Jan. 13; v. 270; p. 336.
Antiseptic, Liquid. A. S. Mann. No. 131,547; May 18; v. 274; p. 606.
Antiseptic, Liquid. A. S. Mann. No. 134,730; Sept. 14; v. 278; p. 358.
Antiseptic powder. Anglo-American Pharmaceutical Corporation. No. 134,856; Sept. 14; v. 278; p. 363.
Antiseptic powder. Oceanus Laboratories. No. 128,475; Aug. 19; v. 270; p. 183.
Antiseptic preparation. The Abbott Laboratories. No. 137,522; Nov. 30; v. 280; p. 995.
Antiseptic preparation. M. M. Taylor. No. 128,539; Jan. 6; v. 270; p. 185.
Antiseptic tablets. Sharp & Dohme. No. 132,523; June 22; v. 275; p. 823.
Antiseptic throat-wash and gargle powder and tablets. Davies, Rose & Co. No. 137,184; Nov. 23; v. 280; p. 792.
Antiseptic used as a gargle, mouth-wash, &c., Liquid. Saxo-Chemical Co. No. 132,511; June 22; v. 275; p. 822.
Antiseptics. Eli Lilly and Company. No. 134,495; Sept. 7; v. 278; p. 159.
Antiseptics. Spirocide Corporation. No. 132,577; June 22; v. 275; p. 824.
Antiseptics, medicines, and pharmaceutical preparations. The Microba Antiseptic Company. No. 135,491; Oct. 12; v. 279; p. 344.
Apparel, Article of wearing-. Troiaset Corset Company. No. 138,244; Dec. 21; v. 281; p. 564.
Apparel, Female. Bloom & Moses. No. 133,214; July 20; v. 276; p. 589.
Apparel, Female-. L. Marx. No. 131,800; May 25; v. 274; p. 832.
Apparel, Infants' wearing-. A. Kummel. No. 138,282; Dec. 21; v. 281; p. 565.
Apparel known as jerseys, Wearing-. N. Halperin. No. 133,692; Aug. 3; v. 277; p. 173.
Apparel, Ladies' wearing-. H. Leibowitz. No. 138,396; Dec. 21; v. 281; p. 571.
Apparel, Wearing-. Eloesser-Heynemann. No. 134,937; Sept. 21; v. 278; p. 531.
Apparel, Wearing. H. D. Lee Mercantile Co. No. 130,792; May 4; v. 274; p. 187.
Apparel, Women's, misses', and children's outer wearing-. John Wanamaker, New York. No. 135,551; Oct. 12; v. 279; p. 346.
Apple-butter. The Red Wing Company. No. 137,056; Nov. 16; v. 280; p. 584.
Apples. Central States Orchards Co. No. 133,929; Aug. 10; v. 277; p. 386.
Apples and pears, Fresh. Naches Cold Storage Co. No. 136,873; Nov. 9; v. 280; p. 381.
Apples, Boxed. The Winthrop Orchards. No. 136,990; Nov. 9; v. 280; p. 385.
Apples, Fresh. Denney & Co. No. 132,355; June 22; v. 275; p. 817.
Apples, Fresh. S. E. Gilinsky. Nos. 136,811–2; Nov. 9; v. 280; p. 379.
Apples, Fresh. J. P. Gray. No. 134,244; Aug. 24; v. 277; p. 778.
Apples, Fresh. F. S. Millichamp. No. 130,929; May 4; v. 274; p. 191.

Digitized by Google

Alphabetical list of trade-marks—Continued.

Apples, Fresh. Plummer and Edwins. No. 135,500; Oct. 12; v. 279; p. 345.
Apples, Fresh. Washington Fruit & Produce Co. No. 128,567; Jan. 6; v. 270; p. 186.
Apples, Fresh. Weiser Air Storage Co. No. 131,946; June 1; v. 275; p. 199.
Apples, Fresh. Yucaipa Apple Growers' Association. No. 131,274; May 4; v. 274; p. 201.
Application for relief of cold, croup, asthma, &c. Klofanda and Company. No. 129,483; Feb. 24; v. 271; p. 679.
Application for relief of congestion, croup, &c. W. K. Edwards. No. 129,454; Feb. 24; v. 271; p. 678.
Application for the relief of pain, congestion, inflammation, External. The United Medicinal Chemical Company. No. 138,360; Dec. 21; v. 281; p. 567.
Aprons. Brooklyn Shield & Rubber Company. No. 134,604; Sept. 14; v. 278; p. 354.
Aprons. A. F. Gerlach Mfg. Co. No. 137,612; Nov. 30; v. 280; p. 997.
Aprons and wash-dresses. Major Apron Company. No. 135,742; Oct. 19; v. 279; p. 530.
Aprons, house-dresses, petticoats, &c. The Iowa Skirt Manufacturing Company. No. 132,180; June 15; v. 275; p. 618.
Aprons, overalls, &c., Shop-. Spartan Manufacturing Company. No. 130,579; Apr. 27; v. 273; p. 805.
Aprons, Women's. G. B. Hovey. No. 135,463; Oct. 12; v. 279; p. 343.
Aprons, Women's. L. Schreiber. No. 133,315; July 20; v. 276; p. 592.
Aqueous adhesive liquid serving as an earth-binder and dust-layer. M. A. Terry. No. 136,212; Oct. 26; v. 279; p. 725.
Arctics. United States Rubber Company. No. 134,837; Sept. 14; v. 278; p. 361.
Arsenic, White. American Metal Company. No. 128,602; Jan. 13; v. 270; p. 335.
Arsenical compounds, Solutions of medicinal. Lowy Laboratory. No. 132,441; June 22; v. 275; p. 820.
Art-feature title. Public Ledger Company. No. 136,591; Nov. 2; v. 280; p. 186.
Articles on current events for children. M. C. Syndicate. No. 131,186; May 4; v. 274; p. 198.
Asbestos lumber, wood, wall-board, &c. Asbestos Wood Mfg. Corp. No. 138,934; Dec. 14; v. 281; p. 395.
Asphalt roofing materials. Binghamton Slap Roofing Co. No. 129,264; Feb. 10; v. 271; p. 355.
Asphalt roofings. McKee, Hodshon & Co. No. 130,541; Apr. 27; v. 273; p. 808.
Asphalt shingles, roofing papers and cements. White Star Refining Co. No. 129,101; Jan. 20; v. 270; p. 477.
Asphalt shingles, &c., Slate-surface. Brown-Wales Company. No. 129,268; Feb. 10; v. 271; p. 355.
Asphalts, Blown-oil. C. Muller. No. 132,023; June 8; v. 275; p. 415.
Asphaltum used to waterproof concrete, Liquid. A. Chambley. No. 129,978; Mar. 16; v. 272; p. 539.
Aspirin. International Consolidated Chemical Corporation. No. 138,471; Dec. 28; v. 281; p. 783.
Aspirin. Klor Early Co. No. 128,419; Jan. 6; v. 270; p. 181.
Aspirin. Smith, Kline & French Co. No. 134,540; Sept. 7; v. 278; p. 161.
Aspirin and photo-engraving chemicals. Albany Chemical Company. No. 131,392; May 18; v. 274; p. 601.
Aspirin compound. Mayos Chemical Co. No. 128,455; Jan. 6; v. 270; p. 182.
Aspirin, Liquid. J. H. Collier. No. 131,432; May 18; v. 274; p. 602.
Auction-sale outfits. The Flex-Tic Supply Company. No. 133,963; Aug. 10; v. 277; p. 387.
Auto-body polish. A. Despol. No. 133,632; Aug. 3; v. 277; p. 171.
Auto-top dye and dressing. The Waterproofings Manufacturing Co. No. 134,120; Aug. 10; v. 277; p. 392.
Auto-wash used as a cleanser, Compounded. The Woodtite Laboratories. No. 134,145; Aug. 10; v. 277; p. 392.
Automobile accessories. Hoover Spring Company. No. 137,004; Nov. 9; v. 280; p. 887.
Automobile, &c., accessories. Romort Manufacturing Company. No. 129,211; Jan. 27; v. 270; p. 616.
Automobile accessories. Joseph N. Smith & Company. No. 130,578; Apr. 27; v. 273; p. 804.
Automobile accessories. Taylor Bros. No. 136,211; Oct. 26; v. 279; p. 725.
Automobile accessories—viz., spark-plugs. Taylor Bros. No. 136,661; Nov. 2; v. 280; p. 188.
Automobile accessory. Orange Manufacturing Company. No. 134,186; Aug. 17; v. 277; p. 582.
Automobile and furniture polish. Lamb Railway Service Co. No. 134,708; Sept. 14; v. 278; p. 357.
Automobile and furniture polish. E. E. Stitzel & Son. No. 134,823; Sept. 14; v. 278; p. 361.
Automobile and furniture polish. N. & P. Varnishfood Company. No. 131,869; May 25; v. 274; p. 835.
Automobile and motor-cycle accessories. Gemco Manufacturing Company. No. 133,416; July 27; v. 276; p. 768.
Automobile appliances. Mayo-Skinner Mfg. Company. No. 133,742; Aug. 3; v. 277; p. 175.
Automobile auxiliary transmission machinery. Tractor-Train Company. No. 138,208; Dec. 14; v. 281; p. 407.
Automobile-body polish and cleaner. Park Chemical Company. No. 133,295; July 20; v. 276; p. 592.
Automobile-bumpers and attaching-brackets. Biflex Products Company. No. 134,595; Sept. 14; v. 278; p. 354.
Automobile-cars and motor-trucks. Abbott Corporation. No. 130,452; Apr. 27; v. 273; p. 801.
Automobile-curtain window. Wm. R. Johnston Mfg. Co. No. 132,976; July 6; v. 276; p. 202.
Automobile-dashes, Sheltering troughs for protecting coils on. C. A. Gareau. No. 131,115; May 4; v. 274; p. 196.
Automobile exhaust-heaters. Noble Heater Company. No. 132,760; June 29; v. 275; p. 1017.
Automobile-fans. The Oakes Company. No. 137,354; Nov. 23; v. 280; p. 797.
Automobile-horns, Electrically operated. Guiterman, Rosenfeld & Company. No. 138,337; Dec. 21; v. 281; p. 566.
Automobile inner tubes, rubber packing, and tires. Corona Rubber Reclaiming Co. No. 129,660; Mar. 9; v. 272; p. 362.
Automobile pedal-extensions. E. J. Bloom. No. 137,909; Dec. 17; v. 281; p. 200.
Automobile, piano, and furniture polish. Van Camp Hardware & Iron Company. No. 138,362; Dec. 21; v. 281; p. 567.
Automobile, piano, and furniture polishing liquid. A. H. Gammon. No. 135,446; Oct. 12; v. 279; p. 343.
Automobile-polish. A. M. Vesper. No. 134,841; Sept. 14; v. 278; p. 361.
Automobile-polish, Wax. Stowell Gribble Chemical Company. No. 134,325; Aug. 24; v. 277; p. 781.
Automobile-radiators, Temperature-indicators for. L. V. Aronson. No. 135,900; Oct. 26; v. 279; p. 715.
Automobile-radiators, Compound for stopping leaks in. Solderine Company. No. 129,542; Feb. 24; v. 271; p. 681.
Automobile-radiators, fire-extinguishers, &c., Compound for removing deposit from. Northwestern Chemical Co. No. 129,818; Mar. 9; v. 272; p. 366.
Automobile specialties. Morgan Manufacturing Co. No. 130,552; Apr. 27; v. 273; p. 804.
Automobile-springs. J. H. Moberg. No. 134,415; Aug. 31; v. 277; p. 973.
Automobile starting devices. Ace Manufacturing Company. No. 130,596; May 4; v. 274; p. 181.
Automobile-steering-post-locking devices. Russell Sales Co. No. 130,398; Apr. 20; v. 273; p. 623.
Automobile steering-post locks. The Hershey Manufacturing Company. No. 136,030; Oct. 26; v. 279; p. 719.
Automobile steering-wheel. Neville Steering Wheel & Manufacturing Co. No. 137,008; Nov. 9; v. 280; p. 388.
Automobile sun-shields. H. J. Doyle. No. 134,355; Aug. 31; v. 277; p. 971.
Automobile theft-locks. H. S. Waterman. No. 136,252; Oct. 26; v. 279; p. 726.
Automobile tops and curtains and top and curtain windows. Shugers Mfg. Co. No. 136,624; Nov. 2; v. 280; p. 187.
Automobiles. Automotive Products Corporation. No. 137,544; Nov. 30; v. 280; p. 995.
Automobiles. The Baker R. & L. Company. No. 128,297; Jan. 6; v. 270; p. 177.
Automobiles. The Baker R & L Company. No. 134,889; Sept. 21; v. 278; p. 529.
Automobiles. The Baker R & L Company. No. 135,174; Sept. 21; v. 278; p. 539.
Automobiles. The R. & L. Baker Company. Nos. 137,546–7; Nov. 30; v. 280; p. 995.
Automobiles. Cleveland Automobile Company. No. 135,638; Oct. 19; v. 279; p. 526.
Automobiles. Cole Motor Car Company. No. 137,498; Nov. 23; v. 280; p. 803.
Automobiles. Duty Motor Co. No. 135,432; Oct. 12; v. 279; p. 342.
Automobiles. Gardner Motor Co. No. 134,653; Sept. 14; v. 278; p. 355.
Automobiles. Hanson Motor Company. No. 138,017; Dec. 14; v. 281; p. 397.
Automobiles. The Haynes Automobile Company. No. 134,678; Sept. 14; v. 278; p. 356.
Automobiles. Jordan Motor Car Co. No. 134,985; Sept. 21; v. 278; p. 532.
Automobiles. Kissel Motor Car Company. No. 132,722; June 29; v. 275; p. 1016.
Automobiles. La Fayette Motor Company. Nos. 134,404–5; Aug. 31; v. 277; p. 973.
Automobiles. Leach-Biltwell Motor Company. No. 132,010; June 8; v. 275; p. 414.
Automobiles. Louisiana Motor Car Company. No. 134,720; Sept. 14; v. 278; p. 357.
Automobiles. Maxwell Motor Company. No. 138,397; Dec. 21; v. 281; p. 571.
Automobiles. The Morris Adler Company. No. 134,873; Sept. 21; v. 278; p. 529.
Automobiles. Re Vere Motor Car Corporation. Nos. 132,501–2; June 22; v. 275; p. 822.
Automobiles. Skelton Motors Corporation. No. 138,347; Dec. 21; v. 281; p. 567.
Automobiles. Vreeland Motor Co. No. 131,260; May 4; v. 274; p. 201.
Automobiles. Ward Motor Vehicle Company. No. 130,984; May 4; v. 274; p. 192.

Digitized by Google

Automobiles. The Washington Motor Company. No. 137,739; Nov. 30; v. 280; p. 1001.
Automobiles. Westcott Motor Car Company. No. 129,099; Jan. 20; v. 270; p. 476.
Automobiles. The Westcott Motor Car Company. No. 135,878; Oct. 19; v. 279; p. 536.
Automobiles and automobile-bodies. Noma Motor Corporation. No. 130,377; Apr. 20; v. 273; p. 622.
Automobiles and automobile-trucks. Belmont Motors Corporation. No. 135,367; Sept. 28; v. 278; p. 707.
Automobiles and automobile-trucks. Hebb Motors Company. No. 131,995; June 8; v. 275; p. 414.
Automobiles and automobile-trucks. Sheridan Commercial Car Company. No. 129,308; Feb. 10; v. 271; p. 856.
Automobiles and motor-cars. Templar Motors Corporation. No. 131,246; May 4; v. 274; p. 200.
Automobiles and motor-trucks. Apperson Bros. Automobile Co. No. 128,922; Jan. 20; v. 270; p. 471.
Automobiles and motor-trucks. Camden Motors Corporation. No. 130,471; Apr. 27; v. 273; p. 801.
Automobiles and motor-trucks. The Jones Motor Car Co. No. 132,716; June 29; v. 275; p. 1016.
Automobiles and motor-trucks. José Cunill de Figuerola. No. 130,288; Apr. 20; v. 273; p. 620.
Automobiles and motor-trucks. Peerless Motor Car Company. No. 130,862; May 4; v. 274; p. 189.
Automobiles and motor-trucks. Stanwood Motor Car Company. No. 134,440; Aug. 31; v. 277; p. 974.
Automobiles and motor-trucks. The White Company. No. 133,541; July 27; v. 276; p. 772.
Automobiles and motor-trucks, Passenger-. Piedmont Motor Car Company. No. 131,212; May 4; v. 274; p. 199.
Automobiles and repair parts therefor, Ignition and electric-lighting systems and magnetos for. The Cleveland Ignition Company. No. 134,911; Sept. 21; v. 278; p. 182.
Automobiles, automobile-radiators, and wheel-hub caps. Argonne Motor Car Co. No. 131,025; May 4; v. 274; p. 194.
Automobiles, automobile-trucks, and suspension-cylinders therefor. Air-O-Flex Automobile Corporation. Nos. 131,687–8; May 25; v. 274; p. 829.
Automobiles, Locking safety device on steering-posts of. Nugo Device Corporation. No. 133,479; July 27; v. 276; p. 770.
Automobiles, motor-trucks, &c. Southern Motor Manufacturing Association. No. 130,114; Apr. 6; v. 273; p. 181.
Automobiles, Pleasure-. Commonwealth Motors Co. No. 131,069; May 4; v. 274; p. 195.
Automobiles, trailers, &c. Southern Motor Manufacturing Association. No. 138,124; Dec. 14; v. 281; p. 401.
Automobiles, Wind-deflectors for. A. F. Kipper. No. 135,723; Oct. 19; v. 279; p. 529.
Aviators' supplies. A. V. Roe & Co. No. 133,178; July 13; v. 276; p. 403.
Awning in the nature of wind-shield protector. H. W. Weed. No. 131,266; May 4; v. 274; p. 201.
Awning, Vehicle-. P. Gervig. No. 135,679; Oct. 19; v. 279; p. 528.
Axes, shovels, scoops, &c. Nixon Hardware Co. No. 136,557; Nov. 2; v. 280; p. 185.
Axles and drive-shafts, Automobile. The Turner Machine & Manufacturing Company. No. 136,669; Nov. 2; v. 280; p. 189.
Axles and springs for vehicles. Standard Parts Company. No. 130,928; May 4; v. 274; p. 191.
Axles, Locomotive and machinery. Pollak Steel Company. No. 128,820; Jan. 13; v. 270; p. 342.
Axles, shaft, gears, Locomotive and machinery. Pollak Steel Company. No. 131,364; May 11; v. 274; p. 401.
Babbitt metal. United American Metals Corporation. No. 128,882; Jan. 13; v. 270; p. 344.
Babbitt metal. United American Metals Corporation. No. 129,232; Jan. 27; v. 270; p. 617.
Babbitt metal and antifriction metals. P. R. Brown. No. 135,203; Sept. 28; v. 278; p. 701.
Baby-pants, Sanitary. M. S. George. No. 132,147; June 15; v. 275; p. 617.
Bacon and ham. J. T. McMillan Company. No. 133,735; Aug. 3; v. 277; p. 174.
Bacon, Breakfast-. John Morrell & Company. No. 128,795; Jan. 13; v. 270; p. 341.
Bacon, Breakfast-. John Morrell & Co. No. 131,915; May 25; v. 274; p. 836.
Bacon, Breakfast-. John Morrell & Co. No. 135,494; Oct. 12; v. 279; p. 344.
Bacon, hams, lard, &c. William Davies Company. No. 128,355; Jan. 6; v. 270; p. 179.
Bacon, hams, lard, &c. William Davies Company. No. 128,966; Jan. 20; v. 270; p. 472.
Bacon, hams, lard, &c. William Davies Company. No. 130,695; May 4; v. 274; p. 184.
Bacteria culture for inoculating seeds. M. Trumper. No. 134,452; Aug. 31; v. 277; p. 974.
Bacteriological culture. T. A. Walsh. No. 130,245; Apr. 13; v. 273; p. 404.
Bacteriological culture. T. A. Walsh. No. 132,579; June 22; v. 275; p. 824.
Bag or pouch closures or mouthpieces, Tobacco. J. T. H. Paterson. No. 136,146; Oct. 26; v. 279; p. 723.
Bags, Ash and coal. O. Stuart. No. 133,838; Aug. 3; v. 277; p. 178.
Bags, beaded sautoires, necklaces, Bead and metal. Jules Schwab & Co. No. 131,608; May 18; v. 274; p. 608.
Bags, Burlap. The Hardin Bag Co. No. 136,448; Nov. 2; v. 280; p. 182.
Bags, Coal-. Dafoe-Eustice Company. No. 130,057; Apr. 6; v. 273; p. 180.
Bags, Garment-. The Levy Chemical Co. No. 135,868; Oct. 19; v. 279; p. 535.
Bags, Grain-. Marshall Field & Company. No. 130,816; May 4; v. 274; p. 187.
Bags, Ice, coal, &c. John Curtin Corp. No. 128,353; Jan. 6; v. 270; p. 179.
Bags, Ladies' hand and vanity. Heinrich, Herrmann & Weiss. No. 129,986; Mar. 16; v. 272; p. 539.
Bags or clipping, shredded waste, &c. Gerofsky Brothers. No. 138,005; Dec. 14; v. 281; p. 397.
Bags, Paper. Atlanta Paper Company. No. 136,307; Nov. 2; v. 280; p. 177.
Bags, Vanity-. Maltz & Sims. No. 137,650; Nov. 30; v. 280; p. 999.
Baggage portfolios, pocket-books, &c. Tiffany & Company. Nos. 136,215–6; Oct. 26; v. 279; p. 725.
Baked goods. Ward Brothers Company. No. 135,552; Oct. 12; v. 279; p. 346.
Baking plant. Peoples System of Bakeries. No. 134,523; Sept. 7; v. 278; p. 160.
Baking plant sold as a unit. Peoples System of Bakeries. No. 136,897; Nov. 9; v. 280; p. 382.
Baking-powder. Chapman & Smith Company. No. 133,374; July 27; v. 276; p. 767.
Baking-powder. J. A. De Luca. No. 132,354; June 22; v. 275; p. 817.
Baking-powder. The Great Atlantic and Pacific Tea Company. No. 132,397; June 22; v. 275; p. 818.
Baking-powder. International Company. No. 138,470; Dec. 28; v. 281; p. 783.
Baking-powder. Stiles-Pellens Coffee Co. No. 128,534; Jan. 6; v. 270; p. 184.
Baking-powder. Rumford Chemical Works. No. 134,786; Sept. 14; v. 278; p. 359.
Baking-powder, soda, cream of tartar, ammonia, and liquid blue. The Great Atlantic and Pacific Tea Company. No. 132,691; June 29; v. 275; p. 1015.
Balancing-machines, Dynamic. Crawford Tool and Manufacturing Co. No. 135,964; Oct. 26; v. 279; p. 717.
Balloons, Motor-driven. The Goodyear Tire & Rubber Company. Nos. 137,244–5; Nov. 23; v. 280; p. 793.
Balls, Bowling-. Brunswick-Balke-Collender Company. No. 132,902; July 6; v. 276; p. 200.
Balls, Bowling and roque. American Hard Rubber Company. No. 135,381; Oct. 12; v. 279; p. 341.
Balls, Golf-. The Dunlop Rubber Company. No. 137,202; Nov. 23; v. 280; p. 792.
Balls, Golf-. Harry C. Lee & Company. No. 128,427; Jan. 6; v. 270; p. 181.
Balls, Golf-. Harry C. Lee & Company. No. 133,424; July 27; v. 276; p. 769.
Balls, Hand and tennis. The Seamless Rubber Company. No. 138,112; Dec. 14; v. 281; p. 402.
Balls of brass or other metal, Hollow balanced. Draper Manufacturing Company. No. 130,487; Apr. 27; v. 273; p. 802.
Balm for foot troubles. A. J. Dash. No. 128,673; Jan. 13; v. 270; p. 337.
Balm, Skin-. E. Weber & Co. No. 128,894; Jan. 13; v. 270; p. 344.
Balsam for the treatment of constipation, flatulency, &c. F. Ad. Richter & Co. No. 136,170; Oct. 26; v. 279; p. 723.
Bait-hooks and ice-tongs. E. R. Davis. No. 131,296; May 11; v. 274; p. 399.
Bananas, Evaporated. Duran & Davalos. No. 138,992; Dec. 14; v. 281; p. 397.
Bandage, Catamenial. G. C. Levy. No. 130,086; Apr. 6; v. 273; p. 180.
Bandage, Catamenial. S. D. Trumbo. No. 133,044; July 6; v. 276; p. 204.
Bandage, Elastic. Becton, Dickinson & Co. No. 130,635; May 4; v. 274; p. 182.
Bandages, Catamenial. Individual Drinking Cup Company. No. 130,762; May 4; v. 274; p. 186.
Bandages, Elastic. Everlastik, Incorporated. No. 128,374; Jan. 6; v. 270; p. 180.
Banjos, mandolins, guitars, and ukulele-banjos. Lyon & Healy. No. 135,272; Sept. 28; v. 278; p. 703.
Barometers. Dourde et Cie. No. 129,150; Jan. 27; v. 270; p. 614.
Barrels and kegs. St. Louis Cooperage Company. No. 132,821; June 29; v. 275; p. 1019.
Barrels, kegs, &c. Colwell Cooperage Company. No. 128,336; Jan. 6; v. 270; p. 179.
Barrels, kegs, hogsheads, &c., Empty tight. Chess & Wymond Company. No. 135,943; Oct. 26; v. 279; p. 717.
Baseballs. J. de Beer & Son. No. 133,114; July 13; v. 276; p. 401.
Baskets made of steel, Waste-. Metal Office Furniture Co. No. 133,745; Aug. 3; v. 277; p. 175.
Bassinettes. L. G. Dibble. No. 134,629; Sept. 14; v. 278; p. 355.

Digitized by Google

Bath and lounging robes and smoking-jackets. Chas. M. Schwartz. No. 132,516; June 22; v. 275; p. 822.
Bath-room fittings. Autoyre Company. No. 135,904; Oct. 26; v. 279; p. 715.
Bath-room fixtures. Bay Ridge Specialty Co. No. 130,152; Apr. 18; v. 273; p. 401.
Baths, Curtainless shower-. The Curtainless Shower Company. Nos. 137,178–80; Nov. 23; v. 280; pp. 791–2.
Baths, Curtainless shower-. Curtainless Shower Company. Nos. 137,910–11; Dec. 7; v. 281; pp. 200–1.
Bathing-suit bags of waterproof material. J. D. Farkas. No. 136,799; Nov. 9; v. 280; p. 379.
Bathing-suits and one-piece union-suits, Ladies' knit. D. Nusbaum & Co. No. 138,322; Dec. 21; v. 281; p. 566.
Bathing-suits, sweaters, and jerseys. The Campe Corporation. No. 133,223; July 20; v. 276; p. 589.
Bathtubs, lavatories, water-closets, &c. Delaware Electric & Supply Co. No. 132,124; June 15; v. 275; p. 616.
Batteries and connectors, &c., Electric storage. Mac-Lar Battery Company. No. 136,085; Oct. 26; v. 279; p. 721.
Batteries and connectors therefor, Secondary. Westinghouse Union Battery Co. No. 136,697; Nov. 2; v. 280; p. 189.
Batteries and connectors therefor, Secondary. Westinghouse Union Battery Co. Nos. 137,417–8; Nov. 23; v. 280; p. 799.
Batteries and flashlights, Electric. Van Camp Hardware & Iron Company. No. 137,735; Nov. 30; v. 280; p. 1001.
Batteries and flash-lights, flash-light cases, Electric. Bright Star Battery Company. No. 133,591; Aug. 3; v. 277; p. 170.
Batteries and parts thereof, Electric. Ionite Storage Battery Co. No. 134,981; Sept. 21; v. 278; p. 532.
Batteries and parts thereof, Storage. The Hartford Battery Manufacturing Company. No. 134,677; Sept. 14; v. 278; p. 356.
Batteries and parts thereof, Storage. A. H. Lyons. Nos. 132,994–5; July 6; v. 276; p. 202.
Batteries and storage-battery parts, Storage. The Eagle-Picher Lead Co. No. 137,206; Nov. 23; v. 280; p. 792.
Batteries, battery-plates, &c. Philadelphia Storage Battery Co. No. 129,827; Mar. 9; v. 272; p. 866.
Batteries, Dry-cell. French Battery & Carbon Co. No. 132,947; July 6; v. 276; p. 201.
Batteries, Dry-cell. Winchester Repeating Arms Co. No. 133,873; Aug. 3; v. 277; p. 179.
Batteries, Dry storage. J. P. Mentzer. No. 130,829; May 4; v. 274; p. 188.
Batteries, Electric. Stuart Products Corporation. No. 133,051; July 6; v. 276; p. 204.
Batteries, Electric. Acorn Battery Company. No. 134,871; Sept. 21; v. 278; p. 529.
Batteries, Electric. Burgess Battery Company. No. 134,605; Sept. 14; v. 278; p. 354.
Batteries, Electric storage. Perfection Storage Battery Co. No. 135,299; Sept. 28; v. 278; p. 704.
Batteries, electrical mine-lamps, and magnetos. Witherbee Igniter Company. No. 133,096; July 6; v. 276; p. 205.
Batteries, Electrical storage. Hobbs Storage Battery Company. No. 136,033; Oct. 26; v. 279; p. 719.
Batteries, Electrolytes or fillers for storage. Shockless Electric Corporation. Nos. 129,874–5; Mar. 9; v. 272; p. 868.
Batteries for flashlights and dry batteries. National Carbon Company. No. 137,754; Nov. 30; v. 280; p. 1003.
Batteries, lamps, &c., for automobiles, Electric. Vesta Battery Corporation. No. 136,237; Oct. 26; v. 279; p. 725.
Batteries, Secondary. Westinghouse Union Battery Co. No. 137,419; Nov. 23; v. 280; p. 799.
Batteries, Storage. Franklin Storage Battery Co. No. 130,296; Apr. 20; v. 273; p. 620.
Batteries, Storage. Luthy Storage Battery Company. No. 134,016; Aug. 10; v. 277; p. 389.
Batteries, Storage. Luthy Storage Battery Company. No. 137,318; Nov. 23; v. 280; p. 796.
Batteries, Storage. F. P. Smith. No. 137,460; Nov. 23; v. 280; p. 800.
Batteries, Storage. G. Ziegler. No. 137,432; Nov. 23; v. 280; p. 799.
Batteries, Storage. Yankee Battery Manufacturing Company. No. 130,449; Apr. 20; v. 273; p. 624.
Battery-cell testers, testing instruments, Electric-. Service Station Supply Co. No. 133,320; July 20; v. 276; p. 592.
Battery-containers. United Battery Service Company. No. 138,359; Dec. 21; v. 281; p. 567.
Battery-steamers, battery steamers and stills, stills, &c. Illinois Battery Steamer Co. No. 137,800; Dec. 7; v. 281; p. 196.
Battery-testers. Service Station Supply Co. No. 134,801; Sept. 14; v. 278; p. 360.
Bats, Baseball-. J. H. Park. No. 137,359; Nov. 23; v. 280; p. 797.
Beams and channels, Steel. American Iron Products Co. No. 135,581; Oct. 19; v. 279; p. 525.
Bean and pea harvesters. The Gordon Bean and Pea Harvester Co. No. 136,013; Oct. 26; v. 279; p. 719.
Beans, Dry lima. California Lima Bean Growers Association. No. 132,636; June 29; v. 275; p. 1014.
Beard-softener. A. J. Krank Manufacturing Co. No. 129,485; Feb. 24; v. 271; p. 679.
Bearing metal. American Non-Ferrous Metals Corporation. No. 130,609; May 4; v. 274; p. 181.
Bearing metal, Babbitt. Great Western Smelting & Refining Company. No. 130,505; Apr. 27; v. 273; p. 802.
Bearing metals and other metal products. H. Kramer & Co. No. 137,296; Nov. 23; v. 280; p. 795.
Bearing metals, Antifriction. Union Smelting & Refining Co. No. 130,586; Apr. 27; v. 273; p. 805.
Bearings and bushings, Metals for machine. Joppa Machine & Bronze Co. No. 137,285; Nov. 23; v. 280; p. 795.
Bearings and parts, Ball and roller. J. Schmid-Roost. No. 129,216; Jan. 27; v. 270; p. 616.
Bearings and power transmissions &c., Machinery. Nordiska Kullager Aktiebolaget. No. 136,287; Nov. 2; v. 280; p. 177.
Bearings, balls, and rollers, &c., Antifriction. Fafnir Bearing Co. No. 131,109; May 4; v. 274; p. 196.
Bearings, belt-pulleys, &c. Compagnie D'Applications Mecaniques. Nos. 136,382–3; Nov. 2; v. 280; p. 180.
Bearings for moving parts of machines. Massachusetts Oilless Bearings Company. Nos. 130,359–60; Apr. 20; v. 273; p. 622.
Bearings, Steel balls for ball-. H. Baker & Co. No. 130,632; May 4; v. 274; p. 182.
Beating and mixing machines, Electrically-driven. The Hobart Manufacturing Company. No. 131,490; May 18; v. 274; p. 604.
Beating and mixing machines, Electrically-driven. Hobart Manufacturing Company. No. 133,143; July 13; v. 276; p. 402.
Beating and mixing machines, Electrically-driven. The Hobart Manufacturing Company. No. 136,831; Nov. 9; v. 280; p. 380.
Bedbug and roach killer. C. L. Sweetsir. No. 129,897; Mar. 9; v. 272 p. 369.
Beds and cribs, Wheeled children's. Steinfeld Bros. No. 133,517; July 27; v. 276; p. 772.
Beds and pillows, Feather-. American Feather and Pillow Company. No. 129,975; Mar. 16; v. 272; p. 589.
Beds, Crib-. Traders' Box & Lumber Company. No. 134,831; Sept. 14; v. 278; p. 361.
Beds, Doll-. S. U. Johnson. No. 136,488; Nov. 2; v. 280; p. 183.
Beds, Wood and metal. Wirth-Lang Company. No. 133,548; July 27; v. 276; p. 773.
Bedspreads. B. F. Bailey & Co. No. 132,088; June 15; v. 275; p. 615.
Bedspreads, comfortables, and blankets. Mutual Trading Company. No. 135,496; Oct. 12; v. 279; p. 344.
Bedspreads, sheets, &c. E. K. Rhoads. No. 131,220; May 4; v. 274; p. 199.
Bedsteads, springs, cribs, couches, &c., Metal. Simmons Company. No. 137,699; Nov. 30; v. 280; p. 1000.
Bee-escapes. M. E. Hastings. No. 128,399; Jan. 6; v. 270; p. 180.
Beef, Corned. Libby, McNeill & Libby. No. 130,203; Apr. 13; v. 273; p. 403.
Beef, mutton, lamb, veal, Chilled fresh. J. A. Linley. No. 136,074; Oct. 26; v. 279; p. 721.
Beer. The Christian Moerlein Brewing Co. Nos. 136,871–2; Nov. 2; v. 280; p. 179.
Beer and malt extracts. Pabst Brewing Company. No. 136,142; Oct. 26; v. 279; p. 723.
Beer, Lager-. Adam Scheidt Brewing Company. No. 135,882; Oct. 26; v. 279; p. 715.
Beer, Near. J. Ruppert. No. 128,507; Jan. 6; v. 270; p. 184.
Beer or near beer, Compound used in the manufacture of. National Brewers Academy & Consulting Bureau. No. 135,289; Sept. 28; v. 278; p. 704.
Beer, sarsaparilla, &c., Birch and root. Rainier Products Company. No. 131,587; May 18; v. 274; p. 607.
Beeswax, &c. Smith & Nichols. No. 128,858; Jan. 13; v. 270; p. 343.
Belt conveyers, Roller-brackets for. Stephens-Adamson Manufacturing Co. No. 134,194; Aug. 17; v. 277; p. 582.
Belt-dressing. Joseph Dixon Crucible Company. No. 132,130; June 15; v. 275; p. 616.
Belt-dressing. Ulmer Leather Co. No. 128,551; Jan. 6; v. 270; p. 185.
Belt-dressings. E. L. Murphy. No. 136,872; Nov. 9; v. 280; p. 381.
Belt-fasteners. Flexible Steel Lacing Company. No. 137,223; Nov. 23; v. 280; p. 793.
Belt-fasteners. Manufacturers' Belt Hook Co. No. 136,088; Oct. 26; v. 279; p. 721.
Belt preservatives, Rubber and leather. Neatsol Products Company. No. 136,552; Nov. 2; v. 280; p. 185.
Belts, Abrasive or grinding. Manning Abrasive Company. No. 132,453; June 22; v. 275; p. 820.
Belts and narrow binding for garments, belts for supporting garments, &c., Narrow. Hope Webbing Company. Nos. 130,517–21; Apr. 27; v. 273; p. 803.
Belts and suspenders, Men's leather apparel-. The Yale Suspender Co. No. 135,563; Oct. 12; p. 276; p. 346.

Digitized by Google

Belts, aprons, and gum-tissue, Sanitary. Omo Mfg. Co. Nos. 130,097–8; Apr. 6; v. 273; p. 181.
Belts for personal wear. Marathon Tire & Rubber Co. No. 132,019; June 8; v. 275; p. 415.
Belts for supporting garments. I. Ravich & Sons. No. 132,786; June 29; v. 275; p. 1018.
Belts for supporting wearing-apparel. G. H. Tyler & Co. No. 134,547; Sept. 7; v. 278; p. 161.
Belts, Binding, textile braiding, and tape. Hope Webbing Company. Nos. 130,186–90; Apr. 13; v. 273; p. 402.
Belts, Elevator-. The B. F. Goodrich Company. No. 138,251; Dec. 21; v. 281; p. 564.
Belts, hose, packing. C. H. Buettner. No. 133,598; Aug. 3; v. 277; p. 170.
Belts, Obstetric. Berthe May, Inc. No. 128,454; Jan. 6; v. 270; p. 182.
Belts, partly of rubber, for supporting outer garments. Marathon Tire and Rubber Co. No. 133,739; Aug. 3; v. 277; p. 175.
Belting. Fabreeka Belting Company. No. 138,447; Dec. 28; v. 281; p. 782.
Belting. E. F. Houghton & Co. No. 138,467; Dec. 28; v. 281; p. 782.
Belting. Manhattan Rubber Mfg. Co. No. 133,736; Aug. 3; v. 277; p. 174.
Belting. Manhattan Rubber Mfg. Co. No. 133,738; Aug. 3; v. 277; p. 174.
Belting. Revere Rubber Company. No. 137,384; Nov. 23; v. 280; p. 798.
Belting. Rossendale-Reddaway Belting & Hose Co. No. 129,855; Mar. 9; v. 272; p. 367.
Belting and diaphragms for paper-mill vats. The B. F. Goodrich Company. No. 136,815; Nov. 9; v. 280; p. 379.
Belting and packing, Leather. Southern Sales Corporation. No. 138,125; Dec. 14; v. 281; p. 401.
Belting, Canvas. Rosendale-Reddaway Belting & Hose Co., The. No. 134,532; Sept. 7; v. 278; p. 161.
Belting, Flat leather. J. E. Rhoads & Sons. No. 130,909; Nov. 9; v. 280; p. 382.
Belting, Hair, cotton woven, stitch-canvas, and rubber. The Rossendale-Reddaway Belting & Hose Co. No. 135,790; Oct. 19; v. 279; p. 531.
Belting, hose, machinery packing. Imperial Belting Company. No. 130,192; Apr. 13; v. 273; p. 402.
Belting, hose, packing. Boston Belting Company. No. 138,426; Dec. 28; v. 281; p. 781.
Belting, hose, packing. Imperial Belting Company. Nos. 138,029–31; Dec. 14; v. 281; p. 398.
Belting, Leather. The Burr Oak Belting Company. No. 136,342; Nov. 2; v. 280; p. 179.
Belting, Leather. Charlotte Leather Belting Company. Nos. 129,640–1; Mar. 9; v. 272; p. 361.
Belting, Leather. Charlotte Leather Company. No. 129,955; Mar. 9; v. 272; p. 370.
Belting, Leather. Chicago Belting Company. No. 137,000; Nov. 9; v. 280; p. 387.
Belting, Leather. Chicago Belting Company. No. 137,570; Nov. 30; v. 280; p. 996.
Belting, Leather. Edward R. Ladew Company. No. 129,766; Mar. 9; v. 272; p. 365.
Belting, Leather. J. J. Freadrich. Nos. 133,661–2; Aug. 3; v. 277; p. 172.
Belting, Leather. The Graton & Knight Manufacturing Company. No. 138,011; Dec. 14; v. 281; p. 397.
Belting, Leather. Hide Leather & Belting Co. No. 138,023; Dec. 14; v. 281; p. 398.
Belting, Leather. Hide Leather & Belting Co. Nos. 138,254–8; Dec. 21; v. 281; p. 564.
Belting, Leather. E. F. Houghton & Co. No. 137,625; Nov. 30; v. 280; p. 998.
Belting, Leather. Hudson Belting Company. No. 136,471; Nov. 2; v. 280; p. 183.
Belting, Leather. Jewell Belting Company. No. 135,713; Oct. 19; v. 279; p. 529.
Belting, Leather. Ulmer Leather Co. No. 129,906; Mar. 9; v. 272; p. 369.
Belting, Leather. The Ulmer Leather Co. No. 136,968; Nov. 9; v. 280; p. 384.
Belting, Leather. United Shoe Machinery Corporation. No. 136,677; Nov. 2; v. 280; p. 189.
Belting, Leather. The Wirthlin-Mann Co. No. 137,427; Nov. 23; v. 280; p. 799.
Belting, hose, &c. Chicago Pneumatic Tool Company. No. 133,226; July 20; v. 276; p. 590.
Belting, hose, machinery packing, and non-metallic tires. Imperial Belting Company. No. 133,145; July 13; v. 276; p. 402.
Belting, hose, machinery packing, and non-metallic tires. Polson Rubber Co. No. 133,301; July 20; v. 276; p. 592.
Belting, hose, machinery packing, and tires. Delaware Electric & Supply Co. No. 136,401; Nov. 2; v. 280; p. 180.
Belting, hose, machinery packings, &c. Imperial Belting Company. No. 133,144; July 13; v. 276; p. 402.
Belting, Leather. The Grafton and Knight Manufacturing Company. No. 133,687; Aug. 3; v. 277; p. 173.
Belting, packing, and hose. Manhattan Rubber Mfg. Co. No. 133,737; Aug. 3; v. 277; p. 174.
Belting, Woven. Carton Belting Company. Nos. 133,605–6; Aug. 3; v. 277; p. 170.
Beltings and laces. Jewell Belting Company. No. 133,709; Aug. 3; v. 277; p. 174.
Beltings, hose, packings, and tires. Delaware Electric & Supply Co. No. 137,189; Nov. 23; v. 280; p. 792.
Beltings, hose, tires, &c. Capen Belting & Rubber Company. No. 137,140; Nov. 23; v. 280; p. 790.
Beltings, lacings, packings, and hose. Pacific Mill and Mine Supply Company. No. 133,773; Aug. 3; v. 277; p. 176.
Beltings, Waist and skirt. A. B. Gaba. No. 132,685; June 29; v. 275; p. 1015.
Beverage. Adam Scheidt Beverage Company. Nos. 138,108–9; Dec. 14; v. 281; p. 400.
Beverage. Jacob Ries Bottling Works. No. 130,229; Apr. 13; v. 273; p. 403.
Beverage and a syrup for flavoring said beverage, Non-alcoholic. Bethania Mineral Spring Company. No. 132,097; June 15; v. 275; p. 615.
Beverage and a syrup therefor, Non-alcoholic. C. W. Keck. No. 138,272; Dec. 21; v. 281; p. 564.
Beverage and flavorings and syrup for making same, Non-alcoholic. C. Ghiglino. No. 136,008; Oct. 26; v. 279; p. 719.
Beverage and syrup for making same, Non-alcoholic. Brainol Manufacturing Co. No. 130,043; Apr. 6; v. 273; p. 179.
Beverage and syrup for making same, Non-alcoholic. J. H. Crome. No. 132,344; June 22; v. 275; p. 817.
Beverage and syrup for making same, Non-alcoholic. S. Klausner. No. 131,519; May 18; v. 274; p. 605.
Beverage and syrup for making same, Non-alcoholic. R. B. Wingate. No. 131,675; May 18; v. 274; p. 610.
Beverage and syrup for making same, Non-alcoholic. W. B. Wood Mfg. Co. Nos. 129,253–4; Jan. 27; v. 270; p. 617.
Beverage and syrup for making same, Non-alcoholic non-cereal maltless. J. Groetsch. No. 131,472; May 18; v. 274; p. 603.
Beverage and syrup for making same, Non-alcoholic non-cereal maltless. The Thrill Exploiting Co. No. 131,639; May 18; v. 274; p. 609.
Beverage and syrups for making the same, Non-alcoholic. E. J. Delahanty. No. 131,734; May 25; v. 274; p. 830.
Beverage, Bottled non-alcoholic. C. H. Thom. No. 131,636; May 18; v. 274; p. 609.
Beverage, Carbonated. Yonkers Brewery. No. 129,255; Jan. 27; v. 270; p. 617.
Beverage, Carbonated non-alcoholic. Alpine Co. No. 131,690; May 25; v. 274; p. 829.
Beverage, Cereal malt. J. Barbey. No. 132,089; June 15; v. 275; p. 615.
Beverage, Cereal. Eilert Products Co. No. 137,994; Dec. 14; v. 281; p. 397.
Beverage, Cereal malt. J. Hauenstein. No. 132,408; June 22; v. 275; p. 819.
Beverage, Cereal malt. Jetter Beverage Company. No. 131,330; May 11; v. 274; p. 400.
Beverage, Cereal malt. Jetter Beverage Company. No. 131,508; May 18; v. 274; p. 604.
Beverage, Cereal malt. Suffolk Brewing Company. Nos. 135,082–3; Sept. 21; v. 278; p. 535.
Beverage, Cereal malt. Terre Haute Brewing Company. No. 129,228; Jan. 27; v. 270; p. 616.
Beverage, Cereal, maltless. L. Roy. No. 133,449; July 27; v. 276; p. 770.
Beverage, Cereal non-intoxicating. Harvard Company. No. 136,451; Nov. 2; v. 280; p. 182.
Beverage, Extract for the manufacturing of a non-alcoholic. Florida Fruit Juice Co. No. 136,418; Nov. 2; v. 280; p. 181.
Beverage made of malt and cereals. Adam Scheidt Beverage Company. No. 131,606; May 18; v. 274; p. 608.
Beverage made of malt and cereals. Adam Scheidt Beverage Company. No. 135,804; Oct. 19; v. 279; p. 531.
Beverage made of malted cereals. Adam Scheidt Beverage Co. Nos. 136,923–4; Nov. 9; v. 280; pp. 382–3.
Beverage, Malt. Centlivre Beverage Co. No. 130,163; Apr. 13; v. 273; p. 401.
Beverage, Malt. Greensburg Brewing Company. No. 132,399; June 22; v. 275; p. 818.
Beverage, Malt. Hartmann & Fehrenbach Products Co. No. 131,319; May 11; v. 274; p. 400.
Beverage, Malt. W. Horlick, Jr. No. 131,998; June 8; v. 275; p. 414.
Beverage, Malt. Independent Brewing Company of Pittsburgh. Nos. 131,326–7; May 11; v. 274; p. 400.
Beverage, Malt. Keeley Brewing Co. No. 136,493; Nov. 2; v. 280; p. 183.
Beverage, Malt. F. A. Maddas. No. 132,196; June 15; v. 275; p. 618.
Beverage, Malt. Pittsburgh Brewing Company. No. 129,049; Jan. 20; v. 270; p. 475.
Beverage, Malt. Pittsburgh Brewing Company. No. 129,201; Jan. 27; v. 270; p. 616.
Beverage, Malt cereal. Ranier Products Company. No. 136,906; Nov. 9; v. 280; p. 382.
Beverage, Malt cereal. Standard Brewing Co. No. 136,644; Nov. 2; v. 280; p. 188.
Beverage, Maltless non-alcoholic fruit. Monopole Vineyards Corp. Nos. 129,187–8; Jan. 27; v. 270; p. 615.
Beverage, Non-alcoholic, &c. The American Brewing Co. No. 132,079; June 15; v. 275; p. 615.
Beverage, Non-alcoholic, &c. Arrow Products Co. No. 132,290; June 22; v. 275; p. 815.

Digitized by Google

Alphabetical list of trade-marks—Continued.

Beverage, Non-alcoholic. S. Blackman. No. 135,860; Oct. 19; v. 279; p. 535.
Beverage, Non-alcoholic. Boedeker & Co. No. 131,414; May 18; v. 274; p. 601.
Beverage, Non-alcoholic. Buffalo Brewing Company. No. 132,632; June 29; v. 275; p. 1014.
Beverage, Non-alcoholic. F. J. Catterlin. No. 131,425; May 18; v. 274; p. 602.
Beverage, Non-alcoholic. Celro-Kola Co. No. 131,426; May 18; v. 274; p. 602.
Beverage, Non-alcoholic. Cincinnati Beverage and Products Co. No. 132,115; June 15; v. 275; p. 616.
Beverage, Non-alcoholic. P. Corning. No. 135,644; Oct. 19; v. 279; p. 527.
Beverage, Non-alcoholic. Home Distributing Co. No. 131,493; May 18; v. 274; p. 604.
Beverage, Non-alcoholic. Joseph Krieg-Fink Co. No. 132,433; June 22; v. 275; p. 820.
Beverage, Non-alcoholic. Lash's Bitters Co. No. 134,994; Sept. 21; v. 278; p. 532.
Beverage, Non-alcoholic. Muskato Beverage Company. No. 135,756; Oct. 19; v. 279; p. 530.
Beverage, Non-alcoholic. Piel Bros. Nos. 137,366–7; Nov. 23; v. 280; p. 797.
Beverage, Non-alcoholic. Pure Beverage Company. No. 131,582; May 18; v. 274; p. 607.
Beverage, Non-alcoholic. The Ver-Vac Company. No. 129,316; Feb. 10; v. 271; p. 357.
Beverage, Non-alcoholic. L. Von Hedemann. No. 137,259; Nov. 23; v. 280; p. 794.
Beverage, Non-alcoholic fruit. Henry-Brown Company. No. 137,504; Nov. 23; v. 280; p. 803.
Beverage, Non-alcoholic fruit. Miracle Company. No. 132,208; June 15; v. 275; p. 619.
Beverage, Non-alcoholic, &c., fruit. Victor Products Co. No. 133,537; July 27; v. 276; p. 772.
Beverage, Non-alcoholic herb. Frank & Lewis Company. No. 132,376; June 22; v. 275; p. 818.
Beverage, Non-alcoholic malt. Bosch Brewing Company. No. 137,560; Nov. 30; v. 280; p. 996.
Beverage, Non-alcoholic malt. John F. Trommer Evergreen Brewery. No. 128,880; Jan. 13; v. 270; p. 344.
Beverage, Non-alcoholic malt. J. E. Malkin. No. 136,277; Oct. 26; v. 279; p. 726.
Beverage, Non-alcoholic malt. The William Peter Brewing Co. No. 136,898; Nov. 9; v. 280; p. 382
Beverage, Non-alcoholic maltless. E. H. Campbell. No. 130,357; Apr. 6; v. 273; p. 179.
Beverage, Non-alcoholic maltless. J. A. Walsh. No. 136,978; Nov. 9; v. 280; p. 384.
Beverage, Non-alcoholic maltless cola. C. A. Crane. No. 134,488; Sept. 7; v. 278; p. 159.
Beverage, Non-alcoholic, maltless, non-cereal, carbonated. The Lomax Co. No. 137,821; Dec. 7; v. 281; p. 197.
Beverage, Non-alcoholic non-cereal. Columbia Mineral Water Co. No. 136,780; Nov. 9; v. 280; p. 378.
Beverage, Non-alcoholic non-cereal. Davies, Rose & Co. No. 136,788; Nov. 9; v. 280; p. 378.
Beverage, Non-alcoholic, non-cereal. Monarch Manufacturing Company. No. 135,492; Oct. 12; v. 279; p. 344.
Beverage, Non-alcoholic non-cereal. Mid West Products Company. No. 136,869; Nov. 9; v. 280; p. 381.
Beverage. Non-alcoholic non-cereal maltless. The Dairy Products Company. No. 134,491; Sept. 7; v. 278; p. 159.
Beverage, Non-alcoholic non-cereal maltless. W. E. Gould. No. 129,161; Jan. 27; v. 270; p. 614.
Beverage, Non-alcoholic non-cereal maltless. Schoenhofen Company. No. 129,217; Jan. 27; v. 270; p. 616.
Beverage, Non-alcoholic, non-cereal, maltless, flavored. Schweppes, Limited. No. 134,538; Sept. 7; v. 278; p. 160.
Beverage, Non-alcoholic, non-intoxicating. St. Louis Beverage Company. No. 134,441; Aug. 31; v. 277; p. 974.
Beverage, Non-alcoholic, non-intoxicating, non-cereal, maltless. J. G. F. Hieber. No. 137,269; Nov. 23; v. 280; p. 794.
Beverage, Non-alcoholic non-intoxicating non-cereal maltless. J. G. Metropol. No. 133,440; July 27; v. 276; p. 769.
Beverage, Non-alcoholic, &c., sold as a soft drink. Monarch Mfg. Co. No. 131,348; May 11; v. 274; p. 401.
Beverage, Non-intoxicating. Birk Brothers Brewing Company. No. 131,285; May 11; v. 274; p. 399.
Beverage. Non-intoxicating. Boyce Extract Co. No. 131,419; May 18; v. 274; p. 601.
Beverage, Non-intoxicating. Buckeye Brewing Co. No. 130,159; Apr. 13; v. 273; p. 401.
Beverage, Non-intoxicating. Chill-O Company. No. 131,430; May 18; v. 274; p. 602.
Beverage. Non-intoxicating. Diebolt Brewing Co. No. 128,865; Jan. 6; v. 270; p. 179.
Beverage, Non-intoxicating. Fred Miller Brewing Co. No. 130,213; Apr. 13; v. 273; p. 403.
Beverage, Non-intoxicating. Geo. Ringler & Co. No. 128,836; Jan. 13; v. 270; p. 342.
Beverage, Non-intoxicating. Harvard Company. No. 128,723; Jan. 13; v. 270; p. 339.
Beverage, Non-intoxicating. Ph. Zang Brewing Company. No. 135,773; Oct. 19; v. 279; p. 531.
Beverage, Non-intoxicating. Southern Beverage Company. No. 133,513; July 27; v. 276; p. 772.
Beverage, Non-intoxicating carbonated. G. L. Becker. No. 130,153; Apr. 13; v. 273; p. 401.
Beverage, Non-intoxicating cereal. Fairmont Beverage Co. No. 133,409; July 27; v. 276; p. 768.
Beverage, Non-intoxicating cereal. Indianapolis Brewing Co. No. 132,418; June 22; v. 275; p. 819.
Beverage, Non-intoxicating cereal. The Stark Tuscarawas Co. No. 136,650; Nov. 2; v. 280; p. 188.
Beverage, Non-intoxicating malt. Harvard Company. No. 129,168; Jan. 27; v. 270; p. 614.
Beverage, Non-intoxicating malt. Henry Weinhard Estate. No. 133,866; Aug. 3; v. 277; p. 178.
Beverage, Non-intoxicating non-alcoholic fruit. Henry-Brown Company, Inc. Nos. 137,002–3; Nov. 9; v. 280; p. 387.
Beverage, Non-intoxicating non-cereal. H. T. Dewey & Sons Co. No. 132,127; June 15; v. 275; p. 616.
Beverage, Non-intoxicating non-cereal maltless. H. T. Dewey & Sons Co. No. 132,358; June 22; v. 275; p. 817.
Beverage, Non-intoxicating, non-cereal, maltless fruit. California Kola Company. No. 137,288; Nov. 23; v. 280; p. 795.
Beverage of malt nature, Non-alcoholic. The Crown Brewing Company. No. 135,424; Oct. 12; v. 279; p. 342.
Beverage-punch, sold as a soft drink, Non-alcoholic. Arrow Products Co. No. 131,405; May 18; v. 274; p. 601.
Beverage sold as a soft drink. Hoster-Columbus Company. No. 133,705; Aug. 3; v. 277; p. 173.
Beverage, syrups, flavoring extracts, colors, &c. Ver-Vac Company. No. 131,870; May 25; v. 274; p. 835.
Beverage to be sold as a soft drink, Maltless. Keen Kola Mfg. Co. No. 135,474; Oct. 12; v. 279; p. 344.
Beverages. I. L. Davis. No. 136,395; Nov. 2; v. 280; p. 180.
Beverages. Henry-Brown Co. No. 135,922; Oct. 26; v. 279; p. 716.
Beverages. F. Hoffman & Sons. No. 136,036; Oct. 26; v. 279; p. 719.
Beverages. Jacob Ries Bottling Works. No. 130,563; Apr. 27; v. 273; p. 804.
Beverages. Jacob Ries Bottling Works. No. 136,602; Nov. 2; v. 280; p. 187.
Beverages. Ray & Frazier. No. 130,889; May 4; v. 274; p. 190.
Beverages. United Beverage Company. No. 138,145; Dec. 14; v. 281; p. 402.
Beverages and flavorings and syrups for making same, Non-alcoholic. Bludwine Company. No. 128,312; Jan. 6; v. 270; p. 178.
Beverages and flavors for the same, Non alcoholic, non-cereal, maltless. H. H. Summer. No. 133,841; Aug. 3; v. 277; p. 178.
Beverages and syrup for making same. Eureka Products Co. No. 135,236; Sept. 28; v. 278; p. 702.
Beverages and syrups. Horlacher Brewing Co. No. 131,776; May 25; v. 274; p. 832.
Beverages and syrups and extracts for manufacturing same. The Ver-Vac Company. No. 138,153; Dec. 14; v. 281; p. 402.
Beverages and syrups for making same and colors and flavors in preparation thereof, Non-alcoholic non-cereal maltless. Burton Brothers. No. 133,366; July 27; v. 276; p. 767.
Beverages and syrups for making same, Non-alcoholic. Bump Confectionery Co. No. 133,920; Aug. 10; v. 277; p. 386.
Beverages and syrups for making same, Non-alcoholic. J. D. Hall. No. 135,685; Oct. 19; v. 279; p. 528.
Beverages and syrups for making same, Non-alcoholic. C. L. Shearer. No. 131,835; May 25; v. 274; p. 833.
Beverages and syrups for making same, Non-alcoholic. Standard Bottling and Extract Co. No. 132,250; June 15; v. 275; p. 620.
Beverages and syrups for making same, Non-alcoholic. Thornton Mineral Springs Company. No. 131,638; May 18; v. 274; p. 609.
Beverages and syrups for making same, Non-alcoholic. West End Brewing Co. No. 135,556; Oct. 12; v. 279; p. 346.
Beverages and syrups for making same, Non-alcoholic. World Bottling Co. No. 131,679; May 18; v. 274; p. 610.
Beverages and syrups for making the same, Non-alcoholic non-cereal. S. C. Webber. No. 138,368; Dec. 21; v. 281; p. 567.
Beverages and syrups for making the same, Non-alcoholic non-cereal maltless. French Bros. Co. No. 136,808; Nov. 9; v. 280; p. 379.
Beverages, and syrups for making the same, Non-alcoholic, non-cereal, maltless. J. G. Metropol. No. 137,885; Dec. 7; v. 281; p. 197.
Beverages and syrups for making the same, Non-alcoholic non-cereal maltless. West End Brewing Co. Nos. 136,984–6; Nov. 9; v. 280; p. 384.
Beverages and syrups, Non-alcoholic. The Hygeria Beverage Co. No. 131,497; May 18; v. 274; p. 604.
Beverages and syrups, Non-alcoholic. E. W. Laporte. No. 131,525; May 18; v. 274; p. 605.
Beverages and syrups therefor, Non-alcoholic. Liquid Carbonic Company. No. 137,643; Nov. 30; v. 280; p. 998.

Digitized by Google

Beverages and syrups therefor, Non-alcoholic. Southern Beverage Company. No. 138,123; Dec. 14; v. 281; p. 401.
Beverages, Bottled malt. Jackson Brewing Company. No. 136,480; Nov. 2; v. 280; p. 183.
Beverages, Cereal. Consumer's Brewing Company. No. 138,383; Dec. 21; v. 281; p. 569.
Beverages, Cereal extracts used as a substitute for malt in making. American Burtonizing Company and Wallerstein Laboratories. No. 137,529; Nov. 30; v. 280; p. 995.
Beverages, Chemical compound for use in the manufacture of. Economical Materials Co. No. 132,365; June 22; v. 275; p. 817.
Beverages containing malt. Independent Brewing Company of Pittsburgh. No. 136,476; Nov. 2; v. 280; p. 183.
Beverages, Culture or ferment employed in the production of cereal. M. Wahl. No. 132,573; June 22; v. 275; p. 824.
Beverages, extracts, and liquors, Malt. C. Kern Products Co. No. 133,713; Aug. 3; v. 277; p. 174.
Beverages, Extract for non-alcoholic. B. A. Hoehl. No. 131,908; May 25; v. 274; p. 836.
Beverages, extracts, and liquors, Malt. Lion Brewery of New York City. No. 133,722; Aug. 3; v. 277; p. 174.
Beverages, Fruitless anise-flavored carbonated. S. Batuglos. No. 132,090; June 15; v. 275; p. 615.
Beverages, Malt. Anzac Company. No. 131,700; May 25; v. 274; p. 829.
Beverages, Malt. Massachusetts Breweries Company. No. 131,914; May 25; v. 274; p. 836.
Beverages, Malt cereal. Rainier Products Company. Nos. 132,496–7; June 22; v. 275; p. 822.
Beverages, Non-alcoholic. American Burtonizing Company and Wallerstein Laboratories. No. 137,086; Nov. 23; v. 280; p. 789.
Beverages, Non-alcoholic. American Laboratories. No. 133,563; Aug. 3; v. 277; p. 169.
Beverages, Non-alcoholic. Arcadian Waukesha Spring Company. No. 128,289; Jan. 6; v. 270; p. 177.
Beverages, Non-alcoholic. W. Bachrack. No. 131,705; May 25; v. 274; p. 829.
Beverages, Non-alcoholic. Bear Lithia Springs Co. No. 136,315; Nov. 2; v. 280; p. 178.
Beverages, Non-alcoholic. Beech-nut Packing Company. No. 133,580; Aug. 3; v. 277; p. 170.
Beverages, Non-alcoholic. Booth & Platt Co. No. 128,687; Jan. 13; v. 270; p. 336.
Beverages, Non-alcoholic. The Efanbee Company. No. 135,433; Oct. 12; v. 279; p. 342.
Beverages, Non-alcoholic. F. J. Fisher. No. 129,156; Jan. 27; v. 270; p. 614.
Beverages, Non-alcoholic. Harvard Brewing Company. No. 136,824; Nov. 9; v. 280; p. 379.
Beverages, Non-alcoholic. Hoddle Brothers. No. 131,775; May 25; v. 274; p. 832.
Beverages, Non-alcoholic. Jackson Brewing Company. No. 131,504; May 18; v. 274; p. 604.
Beverages, Non-alcoholic. Jackson Brewing Company. No. 131,785; May 25; v. 274; p. 832.
Beverages, Non-alcoholic. The Krantz Products Company. No. 133,447; July 27; v. 276; p. 769.
Beverages, Non-alcoholic. H. M. Lewis. No. 138,286; Dec. 21; v. 281; p. 565.
Beverages, Non-alcoholic. V. Loewer's Gambrinus Brewery Co. No. 133,724; Aug. 3; v. 277; p. 174.
Beverages, Non-alcoholic. R. H. Phillips. No. 136,581; Nov. 2; v. 280; p. 186.
Beverages, Non-alcoholic. The Queen City Marshmallow and Syrup Company. No. 137,683; Nov. 30; v. 280; p. 1000.
Beverages, Non-alcoholic. L. Schacht. No. 136,182; Oct. 26; v. 279; p. 724.
Beverages, Non-alcoholic. Schoenhofen Company. No. 130,572; Apr. 27; v. 273; p. 804.
Beverages, Non-alcoholic. Sh-h! Company. No. 131,591; May 18; v 274; p. 607.
Beverages, Non-alcoholic. Southern Beverage Company. No. 129,083; Jan. 20; v. 270; p. 476.
Beverages, Non-alcoholic. M. Winter. No. 130,250; Apr. 13; v. 273; p. 404.
Beverages, Non-alcoholic apple. Cascade Cider Co. No. 135,940; Oct. 26; v. 279; p. 717.
Beverages, Non-alcoholic cereal. Kolb Brewing Co. No. 137,635; Nov. 30; v. 280; p. 998.
Beverages, Non-alcoholic fruit. Monopole Vineyards Corporation. No. 130,214; Apr. 18; v. 273; p. 403.
Beverages, Non-alcoholic maltless. Chateau Bottling Company. No. 136,775; Nov. 9; v. 280; p. 378.
Beverages, Non-alcoholic maltless. E. D. Fave. No. 132,140; June 15; v. 275; p. 617.
Beverages, Non-alcoholic maltless. Florida Fruit Juice Co. No. 132,372; June 22; v. 275; p. 818.
Beverages, Non-alcoholic maltless. Fred Messmer Mfg. Co. No. 129,184; Jan. 27; v. 270; p. 615.
Beverages, Non-alcoholic mixtures used in making malt. Baltimore Process Co. No. 135,907; Oct. 26; v. 279; p. 715.
Beverages, Non-alcoholic non-cereal. Interstate Commerce Company. No. 134,862; Sept. 14; v. 278; p. 363.
Beverages, Non-alcoholic, non-cereal. Jacob Ries Bottling Works. No. 133,797; Aug. 3; v. 277; p. 176.
Beverages, Non-alcoholic, non-cereal, maltless. American Extract & Supply Co. No. 133,562; Aug. 3; v. 277; p. 169.
Beverages, Non-alcoholic, non-cereal, maltless. Charms Company. No. 133,607; Aug. 3; v. 277; p. 170.
Beverages, Non-alcoholic, non-cereal, maltless. C. Damhorst Soda Water Co. No. 136,786; Nov. 9; v. 280; p. 378.
Beverages, Non-alcoholic non-cereal maltless. C. L. Grigg. No. 136,021; Oct. 26; v. 279; p. 719.
Beverages, Non-alcoholic non-cereal maltless. Hygeia Beverage Co. No. 132,174; June 15; v. 275; p. 618.
Beverages, Non-alcoholic non-cereal maltless. West End Brewing Co. No. 136,256; Oct. 26; v. 279; p. 726.
Beverages, Non-alcoholic soft drink. C. A. Federer. No. 135,990; Oct. 26; v. 279; p. 718.
Beverages, Non-intoxicating. California Grape Products Corp. No. 137,137; Nov. 23; v. 280; p. 790.
Beverages, Non-intoxicating. Whistle Bottling Co. No. 131,668; May 18; v. 274; p. 610.
Beverages, Non-intoxicating cereal. E. L. Ropkins. No. 133,028; July 6; v. 276; p. 203.
Beverages, Non-intoxicating cereal. A. P. Munro. No. 133,757; Aug. 3; v. 277; p. 175.
Beverages, Non-intoxicating fruit. G. Loewns & Co. No. 131,912; May 25; v. 274; p. 836.
Beverages, Non-intoxicating malt. Fred Krug Product Co. No. 134,403; Aug. 31; v. 277; p. 973.
Beverages, Powder convertible into. Modern Food Company. No. 132,747; June 29; v. 275; p. 1017.
Beverages, Substitute for malt in making. American Burtonizing Company. No. 137,528; Nov. 30; v. 280; p. 995.
Beverages, syrup, &c., Non-alcoholic. Schoenhofen Company. No. 130,573; Apr. 27; v. 273; p. 804.
Beverages, syrups, colors, and flavors, Non-alcoholic. Whittle & Mutch. No. 130,247; Apr. 13; v. 273; p. 404.
Bicycle and motorcycle saddles. Micrometer Engineering Co. No. 135,751; Oct. 19; v. 279; p. 530.
Bicycles. The Davis Sewing Machine Co. No. 136,789; Nov. 9; v. 280; p. 378.
Bicycles. Excelsior Cycle Company. No. 138,182; Dec. 14; v. 281; p. 404.
Bicycles. Great Western Manufacturing Co. No. 129,287; Feb. 10; v. 271; p. 356.
Bicycles. Great Western Manufacturing Co. No. 131,987; June 8; v. 275; p. 414.
Bicycles. Harper & McIntire Company. No. 134,373; Aug. 31; v. 277; p. 972.
Bicycles. C. J. O'Riely. No. 129,041; Jan. 20; v. 270; p. 475.
Bicycles. Simmons Hardware Company. No. 129,220; Jan. 27; v. 270; p. 616.
Bicycles. Westfield Manufacturing Company. No. 132,070; June 8; v. 275; p. 416.
Bicycles and attachments therefor. Hendee Manufacturing Company. No. 135,458; Oct. 12; v. 279; p. 343.
Billiard-balls. Brunswick-Balke-Collender Company. No. 130,044; Apr. 6; v. 273; p. 179.
Billiard-cue tips. N. E. Bensinger. No. 132,896; July 6; v. 276; p. 199.
Billiard-cushions. The B. F. Goodrich Company. No. 134,660; Sept. 14; v. 278; p. 356.
Binding, Glove-. The Star Binding & Trimming Co. No. 135,078; Sept. 21; v. 278; p. 535.
Binding-strips, tapes, and stocking-supporters. Nichols Underwear Corporation. No. 131,917; May 25; v. 274; p. 831.
Binoculars, field and opera glasses, &c. California Optical Company. No. 130,470; Apr. 27; v. 273; p. 801.
Birch and root beers, and sarsaparilla. Beech-Nut Packing Company. No. 136,754; Nov. 9; v. 280; p. 377.
Biscuit. National Biscuit Company. No. 131,197; May 4; v. 274; p. 199.
Biscuit. National Biscuit Company. Nos. 132,750–3; June 29; v. 275; p. 1017.
Biscuits, Mixed. Consumers Biscuit Company. No. 135,862; Oct. 19; v. 279; p. 535.
Blacking, Shoe-. General Export-Trading Co. No. 137,236; Nov. 23; v. 280; p. 793.
Blackings, creams, and polishes for leather articles. Société Anonyme des Produits du Lion Noir. No. 131,839; May 25; v. 274; p. 834.
Blackings, polishes, and creams for all leather articles. Société Anonyme des Produits du Lion Noir. No. 136,938; Nov. 9; v. 280; p. 383.
Blank forms. The A. S. Gilman Printing Company. No. 133,973; Aug. 10; v. 277; p. 387.
Blanks, Legal. W. S. Tuttle. No. 136,966; Nov. 9; v 280; p. 384.
Blanket of insulating material for electrical workers. F. A. Hardy & Co. No. 133,694; Aug. 3; v. 277; p. 173.
Blankets. John Wanamaker, New York. No. 129,920; Mar. 9; v. 272; p. 369.
Blankets and cloth in the piece, Woolen. Gumbinsky Bros. Company. No. 132,400; June 22; v. 275; p. 818.
Blankets and flannels in the piece and made of cotton, Cotton. American Trading Company. No. 131,022; May 4; v. 274; p. 193.
Blankets and robes. The Wallace & Smith Company. No. 135,356; Sept. 28; v. 278; p. 706.
Blankets, Animal-. W. M. Lyman. No. 137,319; Nov. 23; v. 280; p. 796.

Digitized by Google

Alphabetical list of trade-marks—Continued.

Blankets, Cotton. Nashua Manuf. Company. No. 129,800; Mar. 9; v. 272; p. 366.
Blankets, Cotton. Nashua Manufg. Company. Nos. 131,195–6; May 4; v. 274; p. 199.
Blankets, Cotton and wool. Rogers, Hennessey & Jenkins. No. 129,852; Mar. 9; v. 272; p. 367.
Blankets, Cotton bed-. The Esmond Mills. No. 133,646; Aug. 3; v. 277; p. 172.
Blankets, Textile. The Fair. No. 135,239; Sept. 28, v. 278; p. 702.
Blankets, Woolen. Bonsack Woolen Mill. No. 129,481; Feb. 24; v. 271; p. 677.
Blankets, Woolen. L. Frank. No. 136,001; Oct. 26; v. 279; p. 718.
Bleaching compounds and powder. Société Anonyme des Produits du Lion Noir. No. 138,515; Dec. 28; v. 281; p. 784.
Bleaching fluid. F. Cormond. No. 131,437; May 18; v. 274; p. 602.
Blight exterminator. T. Benton. No. 131,411; May 18; v. 274; p. 601.
Blinds, Louver or Venetian. J. G. Wilson Corporation. No. 130,007; Mar. 16; v. 272; p. 540.
Bloater, anchovy, sardine, and salmon pastes, &c. L. Klima. No. 131,521; May 18; v. 274; p. 605.
Blood-purifier. C. Britton. No. 128,314; Jan. 6; v. 270; p. 198.
Blood-purifier. H. Silverman. No. 132,526; June 22; v. 275; p. 823.
Blood-purifier. The T. D. S. Co. No. 135,089; Sept. 21; v. 278; p. 535.
Blood-purifier. Vermont Blood Purifyer Company. No. 129,558; Feb. 24; v. 271; p. 681.
Blood-purifier and preparations for certain diseases. Druggists Commercial Alliance. No. 135,975; Oct. 26; v. 279; p. 718.
Bloomers. Saul Gelarie & Company. No. 129,215; Jan. 27; v. 270; p. 616.
Bloomers, Gymnasium-. J. Pfrenger Sons. No. 130,386; Apr. 20; v. 273; p. 623.
Bloomers, Sanitary. Rubberized Sheeting & Specialty Co. No. 137,692; Nov. 30; v. 280; p. 1000.
Blotters, folders, &c. The Henderson Lithographing Company. No. 134,680; Sept. 14; v. 278; p. 356.
Blouses. Cobden Co. No. 129,137; Jan. 27; v. 270; p. 614.
Blouses. National Cloak & Suit Co. No. 133,760; Aug. 3; v. 277; p. 175.
Blouses and shirts, Boys'. Cohn, Goldwater Company. No. 137,159; Nov. 23; v. 280; p. 791.
Blouses and shirtwaists, Ladies'. C. Raab. No. 130,873; May 4; v. 274; p. 189.
Blouses and suits, Women's, misses', and children's. Nickels Manufacturing Company. No. 132,217; June 15; v. 275; p. 619.
Blouses, kimonos, &c. F. A. Patrick & Co. No. 137,360; Nov. 23; v. 280; p. 797.
Blouses, outer waists and shirt-waists. Maxine Manufacturing Company. No. 137,329; Nov. 23; v. 280; p. 796.
Blowers and fans. The New York Blower Co. No. 136,120; Oct. 26; v. 279; p. 722.
Blowpipes, regulators, tips, and nozzles for blowpipes. Oxweld Acetylene Company. No. 136,570; Nov. 2; v. 280; p. 186.
Blue, Laundry. National Blue Corporation. Nos. 131,803–5; May 25; v. 274; p. 832.
Blue, Laundry. Standard Ultramarine Co. No. 128,527; Jan. 6; v. 270; p. 184.
Blue, Wash-. Siemon & Elting. No. 128,855; Jan. 13; v. 270; p. 343.
Blue, Wash-. Simeon & Elting. No. 132,527; June 22; v. 275; p. 823.
Bluing. Sunbeam Chemical Company. Nos. 135,084–5; Sept. 21; v. 278; p. 535.
Bluing. The Ultramarine Company. No. 138,519; Dec. 28; v. 281; p. 784.
Bluing in capsule form, Laundry. Blual Chemical Co. No. 134,894; Sept. 21; v. 278; p. 529.
Bluing, Laundry. E. W. Kemp. No. 138,273; Dec. 21; v. 281; p. 565.
Bluing, Laundry. C. A. Murdock Mfg. Co. No. 131,556; May 18; v. 274; p. 606.
Board and building-paper, Wall-. Buffalo Wall Board Company. No. 135,205; Sept. 28; v. 278; p. 701.
Boards and building-paper, Wall and sheathing. Niagara Wall Board Company. No. 133,477; July 27; v. 276; p. 770.
Boards, Ouija-. A. S. Crockett. No. 133,112; July 13; v. 276; p. 401.
Bobbins, reel-arms, &c. Clover Leaf Manufacturing Company. No. 133,615. Aug. 3; v. 277; p. 171.
Boiler attachments, Steam-. Wright-Austin Company. No. 137,902; Dec. 7; v. 281; p. 199.
Boiler-cleaning compound. W. J. Sanderson. No. 129,865; Mar. 9; v. 272; p. 368.
Boiler compounds. Corrosanti Chemical Co. No. 131,294; May 11; v. 274; p. 399.
Boiler-preserver. P. L. O'Neill. No. 132,472; June 22; v. 275; p. 821.
Boilers, expansion-tanks, &c., Range-. John Wood Mfg. Co. No. 134,330; Aug. 24; v. 277; p. 781.
Boilers, radiators, &c., Steam and hot-water. American Steel Export Company. No. 129,259; Feb. 10; v. 271; p. 355.
Boilers, Steam-. Mears Brothers Mfg. Co. No. 130,211; Apr. 13; v. 273; p. 408.
Boilers, Steam-. F. A. Patrick & Co. No. 134,425; Aug. 31; v. 277; p. 973.
Bolt-operating machines, pulley-blocks, hoists, Automatic. Yale & Towne Mfg. Co. Nos. 138,165–6; Dec. 14; v. 281; p. 402.
Bolting-machines or short-log saws. American Saw Mill Machinery Company. No. 135,384; Oct. 12; v. 279; p. 341.
Bond, typewriter, &c., paper. Esleeck Manufacturing Co. No. 128,686; Jan. 13; v. 270; p. 388.
Book, Account-. Trussell Manufacturing Co. No. 137,729; Nov. 30; v. 280; p. 1001.
Book, covers and blank pass books, Check-. The Exline and Exline Co. No. 129,697; Mar. 9; v. 272; p. 362.
Book-marks. J. J. Vanderveer. No. 131,656; May 18; v. 274; p. 609.
Book series for boys. Britton Publishing Company. No. 129,629; Mar. 9; v. 272; p. 360.
Books, Account-. Bickmore Co. No. 133,909; Aug. 10; v. 277; p. 385.
Books and bill-pads, Manifolding. McCaskey Register Company. No. 129,774; Mar. 9; v. 272; p. 365.
Books and cards of a blank nature. H. P. Harris. No. 138,018; Dec. 14; v. 281; p. 398.
Books and pamphlets. H. A. Groth. Nos. 129,734–5; Mar. 9; v. 272; p. 364.
Books, booklets, and pamphlets, Printed. International Committee of Young Men's Christian Associations. No. 137,803; Dec. 7; v. 281; p. 196.
Books, booklets, circulars, &c., Printed. C. F. Haanel. No. 133,419; July 27; v. 276; p. 769.
Books, Code-. American Code Company. No. 136,737; Nov. 9; v. 280; p. 377.
Books in which saving-stamps will be pasted, Blank. W. M. Hoerner. No. 134,969; Sept. 21; v. 278; p. 532.
Books, Memorandum-. A. S. J. Gammon. No. 129,717; Mar. 9; v. 272; p. 363.
Books, Memorandum-. A. S. J. Gammon. No. 136,430; Nov. 2; v. 280; p. 181.
Books, Memorandum-. Rosenblum & Kern. No. 135,063; Sept. 21; v. 278; p. 534.
Books, pads, and tablets, Blank. Boorum & Pease Co. No. 134,895; Sept. 21; v. 278; p. 529.
Books, pamphlets, periodicals, circulars. The Order of Railroad Telegraphers. No. 136,566; Nov. 2; v. 280; p. 185.
Books, printing-paper, pens, &c., Stenographer's note-. The S. Barker's Sons Co. No. 129,606; Mar. 9; v. 272; p. 360.
Books published in series, Printed. E. J. Clode. No. 134,615; Sept. 14; v. 278; p. 354.
Books published periodically, Series of. Grosset & Dunlap. No. 137,252; Nov. 23; v. 280; p. 794.
Books, Series of. H. R. Garis. No. 129,720; Mar. 9; v. 272; p. 157.
Booklet published annually, Printed. E. J. Elbury. No. 136,794; Nov. 9; v. 280; p. 379.
Booklets. C. S. Barnet. No. 137,111; Nov. 23; v. 280; p. 789.
Bookcases, house-desks, medicine-cabinets. Canton Furniture Manufacturing Co. No. 135,409; Oct. 12; v. 279; p. 342.
Boot and shoe heels, Plugs or inserts for. Tel-Til-Tip Co. No. 137,880; Dec. 7; v. 281; p. 199.
Boot-tops and spats. Sar-Ann Manufacturing Co. No. 135,528; Oct. 12; v. 279; p. 345.
Boot drivers and awls, machinery-springs. Morris & Yeomans. No. 135,019; Sept. 21; v. 278; p. 533.
Boots and shoes. American Italian Trading Company McDonnell, Truda & Berlingieri. No. 134,562; Sept. 7; v. 278; p. 161.
Boots and shoes. Converse Rubber Shoe Co. No. 130,686; May 4; v. 274; p. 183.
Boots and shoes. W. R. Grace & Co. No. 128,715; Jan. 13; v. 270; p. 339.
Boots and shoes. Griggs-Paxton Shoe Co. No. 130,506; Apr. 27; v. 273; p. 802.
Boots and shoes. Griggs-Paxton Shoe Co. No. 133,689; Aug. 3; v. 277; p. 173.
Boots and shoes. Harry Walker and Son (Leeds). No. 136,685; Nov. 2; v. 280; p. 189.
Boots and shoes. Lynchburg Shoe Company. No. 134,409; Aug. 31; v. 277; p. 973.
Boots and shoes. W. H. McElwain Company. No. 128,778; Jan. 13; v. 270; p. 340.
Boots and shoes. Nolan-Earl Shoe Co. No. 129,515; Feb. 24; v. 271; p. 680.
Boots and shoes. Richards & Brennan Co. No. 130,882; May 4; v. 274; p. 189.
Boots and shoes. A. Ruff's Sons. No. 130,898; May 4; v. 274; p. 190.
Boots and shoes. Sterling Shoe Corporation. No. 135,342; Sept. 28; v. 278; p. 705.
Boots and shoes. Stone-Tarlow Co. No. 138,517; Dec. 28; v. 281; p. 784.
Boots and shoes. Thomas Brown & Co. (Leicester.) No. 135,925; Oct. 26; v. 279; p. 716.

Digitized by Google

Boots and shoes. Thompson Shoe Company. No. 132,261; June 15; v. 275; p. 620.
Boots and shoes. Thos. H. Logan Co. No. 133,848; Aug. 3; v. 277; p. 178.
Boots and shoes, Wm. Kaut Footwear Company. Nos. 130,771–4; May 4; v. 274; p. 186.
Boots and shoes for men, Leather. F. M. Schumacher. No. 130,980; May 4; v. 274; p. 190.
Boots and shoes for misses and children. Wm. Kaut Footwear Company. No. 131,147; May 4; v. 274; p. 197.
Boots and shoes, Leather. The Emerson Shoe Company. Nos. 130,711–13; May 4; v. 274; p. 182.
Boots and shoes, Leather. Kimball & Sherman Company. No. 135,268; Sept. 28; v. 278; p. 703.
Boots and shoes, Leather. Knipe Bros., Inc. No. 131,789; May 25; v. 274; p. 832.
Boots and shoes, Leather. Locke Shoe Co. No. 130,798; May 4; v. 274; p. 189.
Boots and shoes, Leather. F. Mayer Boot & Shoe Co. No. 131,801; May 25; v. 274; p. 832.
Boots and shoes, Leather. Merchants Trade Association Company. No. 135,284; Sept. 28; v. 278; p. 703.
Boots and shoes, Leather. W. H. Miles Shoe Co. No. 135,285; Sept. 28; v. 278; p. 704.
Boots and shoes, Leather. Wm. Kaut Footwear Company. No. 128,412; Jan. 6; v. 270; p. 181.
Boots and shoes, Leather. E. E. Taylor Company. No. 129,091; Jan. 20; v. 270; p. 476.
Boots and shoes made of leather. Felder Shoe Mfg. Co. No. 129,355; Feb. 17; v. 271; p. 508.
Boots and shoes, Men's and women's. Richards & Brennan Co. No. 130,562; Apr. 27; v. 273; p. 804.
Boots and shoes, Men's leather. Foot, Schulze & Co. No. 131,112; May 4; v. 274; p. 196.
Boots and shoes of leather. Stephen Putney Shoe Co. No. 135,305; Sept. 28; v. 278; p. 704.
Boots and shoes of leather, &c. J. & T. Cousins Co. No. 132,341; June 22; v. 275; p. 817.
Boots and shoes of leather for men, women, and children. Stephen Putney Shoe Co. No. 129,387; Feb. 17; v. 271; p. 509.
Boots and shoes of leather, leather and fabric, &c. J. & T. Cousins Co. No. 132,121; June 15; v. 275; p. 616.
Boots and shoes of leather skins, hides, &c. Huntington Shoe and Leather Company. No. 130,320; Apr. 20; v. 273; p. 621.
Boots or shoes. Slater & Morrill. No. 131,238; May 4; v. 274; p. 200.
Boots, overshoes, gum shoes, &c. The Firestone Tire and Rubber Company. No. 130,720; May 4; v. 274; p. 184.
Boots, shoes, &c. Lindner Shoe Co. No. 128,765; Jan. 13; v. 270; p. 340.
Boots, shoes, and sandals. The Juvenile Shoe Corporation of America. No. 129,476; Feb. 24; v. 271; p. 679.
Boots, shoes, and sandals of kid, leather, &c. Juvenile Shoe Corporation of America. No. 137,630; Nov. 30; v. 280; p. 998.
Boots, shoes, and slippers. Dorothy Dodd Shoe Company. No. 187,778; Dec. 7; v. 281; p. 195.
Boots, shoes, and slippers. Haskell & Brown. No. 137,752; Nov. 30; v. 280; p. 1003.
Boots, shoes, and slippers. H. Hollingworth. No. 137,624; Nov. 30; v. 280; p. 998.
Boots, shoes, and slippers. Jacobson Bros. No. 137,275; Nov. 23; v. 280; p. 794.
Boots, shoes, and slippers. Nath'l Fisher & Co. Nos. 133,762–3; Aug. 3; v. 277; p. 175.
Boots, shoes, and slippers. Rice & Hutchins. No. 130,880; May 4; v. 274; p. 189.
Boots, shoes, and slippers, Ladies'. Thomas Brown & Co. (Leicester.) No. 135,924; Oct. 26; v. 279; p. 716.
Boots, shoes, and slippers, Ladies'. Thomas Brown & Co. (Leicester). No. 137,132; Nov. 23; v. 280; p. 790.
Boots, shoes, and slippers, Leather. Nath'l Fisher & Co. No. 129,381; Feb. 17; v. 271; p. 509.
Boots, shoes, and slippers, Men's and women's. Diamond Shoe Co. No. 135,223; Sept. 28; v. 278; p. 702.
Boots, shoes, leggings, or puttees. A. E. Little Company. No. 131,172; May 4; v. 274; p. 198.
Boots, shoes, overshoes, hosiery. Rosman & Laveson. No. 129,064; Jan. 20; v. 270; p. 475.
Boots, shoes, slippers. Thompson Bros. Shoe Co. No. 137,755; Nov. 30; v. 280; p. 1003.
Boots, shoes, slippers, and sandals. Shoecraft Shop. No. 137,451; Nov. 23; v. 280; p. 800.
Boots, shoes, slippers, and sandals, Leather. Wm. Kaut Footwear Company. No. 130,528; Apr. 27; v. 273; p. 803.
Boots, shoes, slippers, and spats. Thomas G. Plant Company. No. 137,371; Nov. 23; v. 280; p. 797.
Boots, shoes, slippers, sandals, Leather. Wm. Kaut Footwear Co. No. 131,148; May 4; v. 274; p. 197.
Borax. American Trona Corporation. No. 135,896; Oct. 26; v. 279; p. 715.
Boring machines, Metal-. Universal Boring Machine Company. No. 137,891; Dec. 7; v. 281; p. 199.
Bottle and jar closures, Extractors for. The Crown Cork and Seal Company of Baltimore City. No. 136,387; Nov. 2; v. 280; p. 180.
Bottle-cappers. H. J. Lebherz. No. 137,303; Nov. 23; v. 280; p. 795.
Bottle-caps. U. S. Brewers & Bottlers Supply Export Co. No. 135,546; Oct. 12; v. 279; p. 346.
Bottle-washing machines. Geo. J. Meyer Manufacturing Co. No. 133,164; July 13; v. 276; p. 403.
Bottles, Capping-skins for stoppered. Julius Schmid, Incorporated. No. 132,801; June 29; v. 275; p. 1019.
Bottles, Glass. M. Niven. No. 130,850; May 4; v. 274; p. 188.
Bottles, jars, and tumblers, Metal caps for. L. R. N. Carvalho. No. 134,346; Aug. 31; v. 277; p. 971.
Bouillon-cubes. A. L. Freden. No. 134,236; Aug. 24; v. 277; p. 777.
Bouillon-tablets. Royal Specialty Co. No. 138,104; Dec. 14; v. 281; p. 400.
Box-cover wrappers, package and shipping labels and tags. L. A. Liebs Co. No. 132,731; June 29; v. 275; p. 1017.
Boxes, Bread and cake. Home Comfort Company. No. 133,704; Aug. 3; v. 277; p. 173.
Boxes, carriers, and containers. O. B. Andrews Company. No. 137,094; Nov. 23; v. 280; p. 789.
Boxes, caskets, and vaults, Burial. P. H. Kelly. No. 133,712; Aug. 3; v. 277; p. 174.
Boxes, Packing-. Republic Box Company. No. 138,202; Dec. 14; v. 281; p. 406.
Bracelets, belts, bags, &c., Wrist-. Marmorstein & Co. No. 129,785; Mar. 9; v. 272; p. 365.
Braiding-machines and parts thereof. Wardwell Braiding Machine Company. No. 134,200; Aug. 17; v. 277; p. 582.
Braids. The Braided Fabric Co. No. 135,402; Oct. 12; v. 279; p. 341.
Braids, Alsatian. Dollfus-Mieg & Cie. Societe Anonyme. Nos. 130,175–6; Apr. 13; v. 273; p. 402.
Braids and passementerie. Dollfus-Mieg & Cie. Societe Anonyme. Nos. 131,088–92; May 4; v. 274; pp. 195–6.
Braids, shoe and corset laces, and galloons. W. H. Joslin. No. 134,508; Sept. 7; v. 278; p. 160.
Brake-band lining. Reflex Auto Accessory Co. No. 135,052; Sept. 21; v. 278; p. 534.
Brake-bands and transmission-lining. L. & L. Automobile Accessories Corporation. No. 137,766; Dec. 7; v. 281; p. 195.
Brake-lining. Vogt Manufacturing Corporation. No. 135,842; Oct. 19; v. 279; p. 533.
Brake-linings. Staybestos Manufacturing Company. No. 136,948; Nov. 9; v. 280; p. 383.
Brake-linings. United & Globe Rubber Company. No. 136,970; Nov. 9; v. 280; p. 384.
Brake-linings, Transmission. Couch Bros. Manufacturing Company. No. 129,661; Mar. 9; v. 272; p. 362.
Brassière combination-undergarments and undergarments for women. The Warner Brothers Company. No. 133,087; July 6; v. 276; p. 205.
Brassières. C. V. Havens. No. 132,961; July 6; v. 276; p. 201.
Brassières. The Lucile Somarco Brassiere Co. No. 137,316; Nov. 23; v. 280; p. 796.
Bread. A. Bakke. No. 131,031; May 4; v. 274; p. 194.
Bread. Bixler Baking Co. No. 130,640; May 4; v. 274; p. 182.
Bread. Henry Blewett & Son. No. 130,156; Apr. 13; v. 273; p. 401.
Bread. Cable Draper Baking Co. No. 128,322; Jan. 6; v. 270; p. 178.
Bread. J. H. Chapman. No. 136,774; Nov. 9; v. 280; p. 378.
Bread. The Dearborn Baking Co. No. 136,398; Nov. 2; v. 280; p. 180.
Bread. E. A. Dexter. No. 129,146; Jan. 27; v. 270; p. 614.
Bread. Entire Wheat Bread Company. No. 128,684; Jan. 13; v. 270; p. 338.
Bread. Everett, Augenbaugh & Co. No. 131,108; May 4; v. 274; p. 196.
Bread. S. H. Freibofer. No. 133,664; Aug. 3; v. 277; p. 172.
Bread. Haller Baking Company. No. 130,743; May 4; v. 274; p. 185.
Bread. C. F. Hathaway & Sons. No. 130,748; May 4; v. 274; p. 185.
Bread. C. F. Hathaway & Sons. No. 137,258; Nov. 23; v. 280; p. 794.
Bread. C. F. Hathaway & Sons. No. 138,393; Dec. 21; v. 281; p. 570.
Bread. F. A. Heroux. No. 131,137; May 4; v. 274; p. 197.
Bread. Ivan B. Nordhem Company. No. 131,566; May 18; v. 274; p. 606.
Bread. Pratt Bread Company. No. 130,869; May 4; v. 274; p. 189.
Bread. A. Reznikove. No. 130,878; May 4; v. 274; p. 189.
Bread. T. Roulston. No. 130,896; May 4; v. 274; p. 190.
Bread. Ruch-Drompp Grocery Co. No. 134,077; Aug. 10; v. 277; p. 390.
Bread. S. Straus. No. 138,121; Dec. 14; v. 281; p. 401.
Bread. John R. Thompson Co. No. 134,103; Aug. 10; v. 277; p. 391.
Bread. United Baking Co. No. 136,230; Oct. 26; v. 279; p. 723.
Bread. Ward Baking Company. No. 131,264; May 4; v. 274; p. 201.
Bread. Ward Baking Company. Nos. 133,083–5; July 6; v. 276; p. 205.

Digitized by Google

Alphabetical list of trade-marks—Continued.

Bread. Ward Baking Company. Nos. 134,118–19; Aug. 10; v. 277; p. 392.
Bread. Ward Baking Company. No. 134,292; Aug. 24; v. 277; p. 779.
Bread. Ward Bros. Co. No. 135,848; Oct. 19; v. 279; p. 533.
Bread. Ward Bros. Co. No. 138,521; Dec. 28; v. 281; p. 784.
Bread. L. Weinberg Baking Co. No. 134,560; Sept. 7; v. 278; p. 161.
Bread. D. P. Woolley. No. 134,300; Aug. 24; v. 277; p. 779.
Bread. D. P. Woolley. Nos. 134,468–9; Aug. 31; v. 277; p. 975.
Bread and cake. Health Food Baking Co. No. 128,727; Jan. 13; v. 270; p. 339.
Bread and cakes. Ward Baking Company. No. 137,409; Nov. 23; v. 280; p. 798.
Bread, cake, pies, &c. Joe Lowe Co. No. 137,645; Nov. 30; v. 280; p. 998.
Bread, cakes, and pastry. Haller Baking Company. No. 131,132; May 4; v. 274; p. 197.
Bread, cakes, biscuits. W. B. Fink. No. 129,704; Mar. 9; v. 272; p. 363.
Bread, cakes, pies, pastry. J. E. Aubry. No. 131,027; May 4; v. 274; p. 194.
Bread-making machinery and accessories. Bake-Rite Oven Mfg. Company. No. 131,407; May 18; v. 274; p. 601.
Bread, pies, ice-cream. P. F. Skinner. No. 129,079; Jan. 20; v. 270; p. 476.
Bread, rolls, cakes, pies, &c. Keebler Weyl Baking Co. No. 130,775; May 4; v. 274; p. 186.
Bread-slicing machines. Liberty Bread Slicer Company. No. 131,338; May 11; v. 274; p. 401.
Brewing adjunct. National Brewers' Academy & Consulting Bureau. No. 138,195; Dec. 14; v. 281; p. 405.
Brick. Bennettsville Brick Company. No. 135,602; Oct. 19; v. 279; p. 525.
Brick, Fire-. Pyro Products Company. No. 130,872; May 4; v. 274; p. 189.
Brick, Fire-. Pyro Products Company. No. 132,039; June 8; v. 275; p. 415.
Brick, Refractory. Quigley Furnace Specialties Co. No. 132,040; June 8; v. 275; p. 415.
Bricks and building-blocks. H. J. F. Ludeman. No. 133,274; July 20; v. 276; p. 591.
Bridges, telegraph and telephone poles and parts, &c., Metal. American Steel Export Company. No. 130,028; Apr. 6; v. 273; p. 179.
Brisling and sild. The Oversea Export Co. No. 136,569; Nov. 2; v. 280; p. 186.
Brisling and sild. The Oversea Export Co. No. 137,846; Dec. 7; v. 281; p. 198.
Brisling and sild. The Oversea Export Co. Nos. 138,080–1; Dec. 14; v. 281; p. 400.
Brisling and sild, (frequently known generically as sardines.) The Oversea Export Co. Nos. 134,052–8; Aug. 10; v. 277; p. 390.
Brisling and sild (sardines). The Oversea Export Co. Nos. 136,136–9; Oct. 26; v. 279; pp. 722–3.
Bristles and human hair. Andersen-Meyer & Company. No. 134,570; Sept. 14; v. 278; p. 353.
Bristol-board. Whiting Paper Company. No. 134,134; Aug. 10; v. 277; p. 392.
Briquets made from coal. C. H. Smith. No. 134,808; Sept. 14; v. 278; p. 360.
Broaches, expanding burnishers, wrenches, &c. Danielson-Gardanier Manufacturing Company. No. 137,981; Dec. 14; v. 281; p. 396.
Broadcloth. Turner & Walls. No. 131,644; May 18; v. 274; p. 609.
Bronze ingots, Babbitt metal, &c. Eastwood Wire Manufacturing Company. No. 129,152; Jan. 27; v. 270; p. 614.
Bronze ingots, castings, rods, &c. Bridgeport Brass Company. No. 131,421; May 18; v. 274; p. 602.
Bronzework for buildings, Architectural. Dymalkon Metals Corporation. No. 131,095; May 4; v. 274; p. 196.
Brooms. Crocker Broom & Brush Co. Nos. 128,346–9; Jan. 6; v. 270; p. 179.
Brooms. Crocker Broom and Brush Co. No. 132,922; July 6; v. 276; p. 200.
Brooms. The Morey Mercantile Company. No. 138,068; Dec. 14; v. 281; p. 399.
Brooms. Newton Broom Co. No. 133,009; July 6; v. 276; p. 203.
Brooms. Nicholson Construction Co. No. 137,348; Nov. 23; v. 280; p. 796.
Brooms. Pioneer Broom Company. No. 130,103; Apr. 6; v. 273; p. 181.
Brooms. Re-Filit Broom Company. No. 137,852; Dec. 7; v. 281; p. 198.
Brooms. N. G. Scoville Sons Company. Nos. 136,927–9; Nov. 9; v. 280; p. 383.
Brooms. J. Stein. No. 137,711; Nov. 30; v. 280; p. 1000.
Brooms. White-Valentine Company. No. 133,871; Aug. 3; v. 277; p. 179.
Brooms and brushes. M. Marcus. No. 132,997; July 6; v. 276; p. 202.
Brooms and whisk-brooms. Deshler Broom Factory. Nos. 130,697–8; May 4; v. 274; p. 184.
Brooms, Bridles for. Johnson, McGarr & Warren. No. 130,193; Apr. 13; v. 273; p. 402.
Brooms, brushes, and mops. Geo. A. Fink Co. No. 132,939; July 6; v. 276; p. 201.
Brooms, Corn. H. F. Cook. No. 130,054; Apr. 6; v. 273; p. 180.
Brushes. A. Bourjois & Co. No. 132,899; July 6; v. 276; p. 199.
Brushes. Reichman & Faust. No. 137,382; Nov. 23; v. 280; p. 797.
Brushes and brooms, Device for cleaning bristle. H. Frankenstein. No. 131,464; May 18; v. 274; p. 603.
Brushes, brooms, floor-sweepers, Dustpan and household. Auburn Brush Company. No. 134,474; Sept. 7; v. 278; p. 159.
Brushes, floor-brooms, dusters. J. C. Pushee & Sons. No. 133,023; July 6; v. 276; p. 203.
Brushes for dynamos and electric motors. Morgan Crucible Compy. No. 131,192; May 4; v. 274; p. 199.
Brushes, Hair-. Florence Manufacturing Company. No. 135,998; Oct. 26; v. 279; p. 718.
Brushes, Hair, clothes, and hat. Paraloid Works. No. 135,506; Oct. 12; v. 279; p. 345.
Brushes, Hair, tooth, and clothes. The Ames-Bonner Company. No. 135,190; Sept. 28; v. 278; p. 701.
Brushes, Hat-. R. Swisky. No. 133,053; July 6; v. 276; p. 204.
Brushes, House, hat, sink, cuspidor, &c. A. J. Nauberger. No. 135,291; Sept. 28; v. 278; p. 704.
Brushes, Paint and varnish. United Brush Manufactories. No. 130,131; Apr. 6; v. 273; p. 182.
Brushes, Phonograph-record. Parks & Parks. No. 133,480; July 27; v. 276; p. 770.
Brushes, powder-puffs, whisk-brooms, Clothes, &c. Tiffany & Company. Nos. 135,825–6; Oct. 19; v. 279; p. 532.
Brushes, Shaving-. American Safety Razor Corporation. No. 136,740; Nov. 9; v. 280; p. 377.
Brushes, Shaving-. Gem Safety Razor Corporation. No. 134,365; Aug. 31; v. 277; p. 972.
Brushes, Shaving-. Kampfe Bros. Nos. 132,977–8; July 6; v. 276; p. 202.
Brushes, Shaving-. H. M. Rynehart Co. No. 137,391; Nov. 23; v. 280; p. 798.
Brushes, Shaving-. Simmons Hardware Company. No. 130,110; Apr. 6; v. 273; p. 181.
Brushes, Shine- removing. A. J. Rheinberger. No. 133,025; July 6; v. 276; p. 203.
Brushes, shoe brushes and daubers, Hair and clothes. J. Morrison, Jr. No. 130,836; May 4; v. 274; p. 188.
Brushes, Talking-machine-record. Blackman Talking Machine Co. No. 133,355; July 27; v. 276; p. 767.
Brushes, Tooth, nail, hair, bath, and face. A. Bourjois & Co. No. 130,650; May 4; v. 274; p. 182.
Brushes used as sash-tools. United Brush Manufactories. No. 130,243; Apr. 13; v. 273; p. 404.
Brushes, Wire. Cleveland Osborn Manufacturing Company. No. 128,332; Jan. 6; v. 270; p. 178.
Buckets and bins, Wood, fiber, and canvas hand-. Allied Machinery Company of America. No. 134,876; Sept. 21; v. 278; p. 529.
Buckles. North and Judd Manufacturing Company. No. 129,304; Feb. 10; v. 271; p. 356.
Buckles. Shoe Hardware Company. No. 130,914; May 4; v. 274; p. 190.
Buckles. Stanley Works. No. 130,117; Apr. 6; v. 273; p. 181.
Buckles, &c., Belt, shoe, and fob. North & Judd Manufacturing Company. No. 130,557; Apr. 27; v. 273; p. 804.
Buckles for personal wear. Whitehouse Brothers. No. 130,993; May 4; v. 274; p. 193.
Buffing or polishing composition. Matchless Metal Polish Co. No. 128,458; Jan. 6; v. 270; p. 182.
Buggies, carriages, automobile-bodies, &c. The F. A. Ames Company. No. 135,897; Oct. 26; v. 279; p. 715.
Bugles, trombones, reverse-horns, &c. The Rex Metal Products Company. No. 136,601; Nov. 2; v. 280; p. 187.
Building and play blocks and blocks for games. Halsam Products Company. No. 134,675; Sept. 14; v. 278; p. 356.
Building and roofing purposes, Composition strips and sheets for. Cleveland-Akron Bag Company. No. 133,229; July 20; v. 276; p. 590.
Building material, Creosoted. National Creosote Company. No. 130,216; Apr. 13; v. 273; p. 403.
Building material, Metal. Gagen Sales Corporation. No. 130,179; Apr. 13; v. 273; p. 402.
Building plans. King Ventilating Company. No. 134,703; Sept. 14; v. 278; p. 357.
Building, Ready-cut parts of. E. A. Laughlin Lumber Co. No. 135,476; Oct. 12; v. 279; p. 344.
Buildings and structural elements thereof, Permanent. H. K. Ferguson Company. No. 133,244; July 20; v. 276; p. 590.
Buildings, Knockdown. W. A. Fortner. No. 131,113; May 4; v. 274; p. 196.
Buildings, Sectional. G. Wenzelmann. No. 130,591; Apr. 27; v. 273; p. 805.
Buildings, Sectional or knockdown. Masterbilt Homes. No. 137,042; Nov. 16; v. 280; p. 584.

Digitized by Google

Alphabetical list of trade-marks—Continued.

Buildings, Steel. Liberty Steel Products Company. No. 133,453; July 27; v. 276; p. 770.
Bulbs, Lily-. T. Outerbridge. No. 130,100; Apr. 6; v. 273; p. 181.
Bulletin, Monthly. A. Stein & Company. No. 138,132; Dec. 14; v. 281; p. 401.
Bulletin published at irregular intervals. Fats and Oils Service Company. No. 134,498; Sept. 7; v. 278; p. 160.
Bulletins issued monthly in the form of pamphlets. National Association of Employment Managers. No. 134,040; Aug. 10; v. 277; p. 389.
Bulletin's, Monthly. Silk Association of America. No. 129,876; Mar. 9; v. 272 p. 868.
Bunting. C. H. Reed. No. 133,024; July 6; v. 276; p. 203.
Bunting. C. H. Reed. No. 135,782; Oct. 19; v. 279; p. 531.
Burial-caskets and cases therefor. J. S. Waterman & Sons. No. 138,155; Dec. 14; v. 281; p. 402.
Burlaps, ducks, drills, &c. Goodin Reid & Co. No. 132,391; June 22; v. 275; p. 818.
Burners and furnaces, Hydrocarbon, &c. The Denver Fire Clay Company. No. 130,172; Apr. 13; v. 273; p. 402.
Burners and heaters, Oil. H. M. Sheer. No. 134,438; Aug. 31; v. 277; p. 974.
Burners, Bunsen. Detroit Heating & Lighting Company. No. 128,674; Jan. 13; v. 270; p. 337.
Burners, Hydrocarbon-. J. Scheminger, Jr. No. 131,897; May 25; v. 274; p. 835.
Burners, kerosene gas generators and burners, and furnaces, Kerosene. Champion Kerosene-Burner Company. No. 131,969; June 8; v. 275; p. 413.
Burners, Oil and gas. Duquesne Burner Service Company. No. 138,541; Dec. 28; v. 281; p. 786.
Burners or heaters, Liquid-fuel. The Steam Corporation. No. 135,537; Oct. 12; v. 279; p. 346.
Burners, Self-generating gas-. Hyco Fuel Products Corporation. No. 134,385; Aug. 31; v. 277; p. 972.
Burs and broaches. Usona Dental Company. Nos. 133,073-4; July 6; v. 276; p. 205.
Burs and broaches for dental use. Usona Dental Company. No. 130,963; May 4; v. 274; p. 192.
Butter. Crenshaw Bros. Produce Co. No. 131,971; June 8; v. 275; p. 413.
Butter. Debow & Co. No. 136,399; Nov. 2; v. 280; p. 180.
Butter. H. B. Eingold. No. 135,233; Sept. 28; v. 278; p. 702.
Butter. Geo. R. Eldridge Co. No. 130,292; Apr. 20; v. 273; p. 620.
Butter. W. L. Houlton. No. 129,003; Jan. 20; v. 270; p. 473.
Butter. International Merchants, Incorporated. No. 130,322; Apr. 20; v. 273; p. 621.
Butter. Longino & Collins. No. 134,013; Aug. 10; v. 277; p. 388.
Butter. V. Lopez & Company. No. 131,535; May 18; v. 274; p. 605.
Butter. Pendleton Creamery Co. No. 135,873; Oct. 19; v. 279; p. 536.
Butter. B. Stilling-Andersen, Inc. No. 134,095; Aug 10; v. 277; p. 391.
Butter. Vasold Brothers. No. 131,657; May 18; v. 274; p. 609.
Butter and cheese. H. C. Leslie. No. 130,536; Apr. 27; v. 273; p. 803.
Butter, milk, hams, &c. W. J. Lemp. No. 129,018; Jan. 20; v. 270; p. 474.
Butter, olive-oil, rice, dried fruits, coffee. Wm. T. Reynolds & Co. No. 130,877; May 4; v. 274; p. 189.
Butter-serving machines. Food Appliances Manufacturing Corporation. No. 132,144; June 15; v. 275; p. 617.
Butter-serving machines. Food Appliances Manufacturing Corporation. No. 132,373; June 22; v. 275; p. 818.
Butter, Tub-. S. Saler. No. 132,238; June 15; v. 275; p. 620.
Buttermilk. Consolidated Products Co. No. 137,749; Nov. 30; v. 280; p. 1003.
Buttermilk, Powdered. Collis Products Company. No. 130,677; May 4; v. 274; p. 183.
Buttermilk, Powdered. Collis Products Company. No. 134,349; Aug. 31; v. 277; p. 971.
Buttermilk, Powdered. Manufacturers Purchasing Corporation. No. 137,041; Nov. 16; v. 280; p. 584.
Buttons. International Button Co. No. 130,763; May 4; v. 274; p. 186.
Buttons, Cuff-. The Celluloid Company. No. 137,968; Dec. 14; v. 281; p. 396.
Buttons, Device for use in protecting material to which they are attached while cleaning. J. L. H. Blackwood. No. 131,962; June 8; v. 275; p. 413.
Buttons, Non-metallic. Morley Button Manufacturing Company. No. 130,215; Apr. 13; v. 273; p. 403.
Buttons, Pearl. George Borgfeldt. No. 136,332; Nov. 2; v. 280; p. 178.
Buttons, Pearl. Paragon Button Corporation. No. 132,031; June 8; v. 275; p. 415.
Buttons, Pearl. Penn Rivet Corporation. No. 132,222; June 15; v. 275; p. 619.
Buttons, Shoe-. Compagnie Francaise Des Boutons De La Marque J. P. No. 131,896; May 25; v. 274; p. 835.
Cabinet and exercising apparatus, Sweat-. J. Cooper. No. 132,019; July 6; v. 276; p. 200.
Cabinets and parts of same, Filing-. National Cash Register Company. No. 133,291; July 20; v. 276; p. 591.
Cabinets and refrigerators, Combined kitchen-. Tennessee Furniture Corporation. No. 137,718; Nov. 30; v. 280; p. 1001.
Cabinets for paper towels or toilet-papers, Dispensing-. Albany Perforated Wrapping Paper Company. No. 138,558; Aug. 3; v. 277; p. 169.
Cabinets for storage and filing purposes, Steel. Hart & Hutchinson Company. No. 133,257; July 20; v. 276; p. 590.
Cabinets, Kitchen-. Land-Dilks Co. No. 130,534; Apr. 27; v. 273; p. 803.
Cabinets, Kitchen-. Vincennes Furniture Mfg. Co. No. 133,336; July 20; v. 276; p. 593.
Cabinets, Phonograph-. The Veratone Phonograph Co. No. 134,840; Sept. 14; v. 278; p. 361.
Cabinets, Store display-. Lyon & Healy. No. 135,735; Oct. 19; v. 279; p. 529.
Cables, Electric portable. Tubular Woven Fabric Company. No. 134,107; Aug. 10; v. 277; p. 391.
Cabots. Commercial Union of America. No. 130,478; Apr. 27; v. 273; p. 802.
Cabs for motor-vehicles, Closed. The General Woodwork Co. No. 136,431; Nov. 2; v. 280; p. 181.
Cake. F. G. Justice. No. 132,717; June 29; v. 275; p. 1016.
Cake. Perfection Biscuit Company. No. 135,771; Oct. 19; v. 279; p. 531.
Cake and cookies. C. & F. W. Comstock. No. 133,936; Aug. 10; v. 277; p. 386.
Cake, bread, doughnuts, &c. Seattle Baking Company. No. 136,623; Nov. 2; v. 280; p. 187.
Cake cone. Maryland Baking Co. No. 135,486; Oct. 12; v. 279; p. 344.
Cake mixture, Prepared. E. C. Gatlin Company. No. 135,248; Sept. 28; v. 278; p. 702.
Cakes. Pearls Company. No. 136,575; Nov. 2; v. 280; p. 186.
Cakes. Ward Baking Company. No. 134,844; Sept. 14; v. 278; p. 361.
Cakes. Ward Baking Company. No. 136,979; Nov. 9; v. 280; p. 384.
Cakes and crackers. Candy Cake Corporation. No. 130,060; May 4; v. 274; p. 195.
Cakes, crackers, and biscuits. Loose-Wiles Biscuit Company. No. 132,192; June 15; v. 275; p. 618.
Cakes or biscuits called matzohs. Harowitz Bros. & Margareten. No. 131,941; June 1; v. 275; p. 199.
Cakes, wafers, crackers. Loose-Wiles Biscuit Company. Nos. 130,349-50; Apr. 20; v. 273; p. 622.
Cakes, wafers, crackers. Loose Wiles Biscuit Company. No. 138,288; Dec. 21; v. 281; p. 565.
Cakes, wafers, crackers, or biscuits. Loose-Wiles Biscuit Company. No. 132,193; June 15; v. 275; p. 618.
Calcareous composition for soil improvement. Security Cement & Lime Co. No. 136,931; Nov. 9; v. 280; p. 383.
Calcimine, paints, and varnishes. The Charles H. Brown Paint Company. No. 131,714; May 25; v. 274; p. 830.
Calcium carbid. Air Reduction Company. No. 128,590; Jan. 13; v. 270; p. 335.
Calcium-magnesium oxids. J. M. Lounsbury. No. 138,480; Dec. 28; v. 281; p. 783.
Calculating and adding machines. Monroe Calculating Machine Company. No. 129,029; Jan. 20; v. 270; p. 474.
Calculating-machine. A. J. Berg. No. 136,321; Nov. 2; v. 280; p. 178.
Calculating-machines. C. Merryman. No. 137,833; Dec. 7; v. 281; p. 197.
Calculating-machines. A. Wibel. No. 135,558; Oct. 12; v. 279; p. 346.
Calendar-pads. Samuel C. Tatum Co. No. 131,850; May 25; v. 274; p. 834.
Calendars. G. V. House. No. 137,268; Nov. 23; v. 280; p. 794.
Calipers and dividers for measuring purposes. Consolidated Tool Works. No. 130,286; Apr. 20; v. 273; p. 620.
Callous-removing preparations. Scotch-Tone Company. No. 129,068; Jan. 20; v. 270; p. 476.
Camera-supporting clamps and tripod-adapters. Eastman Kodak Company. No. 128,368; Jan. 6; v. 270; p. 179.
Camisoles. Ladies' silk. Kirschner-Hendler Co. No. 132,431; June 22; v. 275; p. 820.
Candies. A. R. Alfoth. No. 130,600; May 4; v. 274; p. 181.
Candies. T. Backé. No. 131,029; May 4; v. 274; p. 194.
Candies. T. Backé. No. 132,620; June 29; v. 275; p. 1013.
Candies. T. Backé. No. 137,106; Nov. 23; v. 280; p. 789.
Candies. E. Berte. No. 136,757; Nov. 9; v. 280; p. 377.
Candies. J. S. Bell Confectionery Company. No. 134,343; Aug. 31; v. 277; p. 971.
Candies. Bianco & Gianassi. No. 137,555; Nov. 30; v. 280; p. 996.
Candies. Ed L. Biesenbach & Co. No. 137,123; Nov. 23; v. 280; p. 790.
Candies. Bitrose Co. No. 128,309; Jan. 6; v. 270; p. 178.
Candies. E. J. Brach and Sons. No. 131,287; May 11; v. 274; p. 399.

Digitized by Google

Alphabetical list of trade-marks—Continued.

Candies. The Brecht Candy Co. No. 135,921; Oct. 26; v. 279; p. 716.
Candies. The Brecht Candy Co. No. 136,768; Nov. 9; v. 280; p. 378.
Candies. Cream Products Co. Nos. 134,351–2; Aug. 31; v. 277; p. 971.
Candies. The D. L. Clark Company. No. 135,637; Oct. 19; v. 279; p. 526.
Candies. W. A. Easterday. No. 134,357; Aug. 31; v. 277; p. 971.
Candies. C. Elliott. No. 136,795; Nov. 9; v. 280; p. 379.
Candies. Eye Brand Confectionery. No. 130,064; Apr. 6; v. 273; p. 180.
Candies. Eye Brand Confectionery, Inc. No. 136,414; Nov. 2; v. 280; p. 181.
Candies. Eye Brand Confectionery. No. 137,589; Nov. 30; v. 280; p. 997.
Candies. The Flossmint Company. No. 136,421; Nov. 2; v. 280; p. 181.
Candies. Geo. H. Frits & Sons. No. 128,884; Jan. 6; v. 270; p. 180.
Candies. Fuerst & Kraemer. No. 131,114; May 4; v. 274; p. 196.
Candies. Hardie Bros. Co. No. 132,698; June 29; v. 275; p. 1016.
Candies. Hawley & Hoops. No. 132,970; July 6; v. 276; p. 202.
Candies. Hawley & Hoops. No. 133,989; Aug. 10; v. 277; p. 388.
Candies. C. L. Heffelman. No. 135,689; Oct. 19; v. 279; p. 528.
Candies. The Hekman & Goodman Candy Company. No. 134,374; Aug. 31; v. 277; p. 972.
Candies. Hoehle & Johnson. No. 128,732; Jan. 13; v. 270; p. 339.
Candies. Johnson Bros. & Alexander. No. 130,323; Apr. 20; v. 273; p. 621.
Candies. Robert A. Johnson Co. No. 134,400; Aug. 31; v. 277; p. 973.
Candies. R. F. Keppel & Bro. No. 130,777; May 4; v. 274; p. 186.
Candies. Lady Jefferson Candy Company. No. 132,726; June 29; v. 275; p. 1016.
Candies. Maple Grove Candies. No. 128,447; Jan. 6; v. 270; p. 182.
Candies. Mason City Candy Co. No. 130,818; May 4; v. 274; p. 187.
Candies. McDowell, Pyle & Co. No. 130,804; May 4; v. 274; p. 187.
Candies. C. N. Miller Company. No. 128,790; Jan. 13; v. 270; p. 341.
Candies. E. R. Pershing. No. 135,041; Sept. 21; v. 278; p. 584.
Candies. Puritan Candy Co. No. 136,162; Oct. 26; v. 279; p. 723.
Candies. Queen Anne Candy Co. No. 137,055; Nov. 16; v. 280; p. 584.
Candies. J. W. Riley. No. 135,519; Oct. 12; v. 279; p. 345.
Candies. Samoset Chocolate Co. No. 130,902; May 4; v. 274; p. 190.
Candies. D. Schiff. No. 132,798; June 29; v. 275; p. 1019.
Candies. Schutter-Johnson Candy Co. No. 135,806; Oct. 19; v. 279; p. 532.
Candies. P. R. Shaller. No. 128,515; Jan. 6; v. 270; p. 184.
Candies. Shutter Johnson Candy Co. No. 131,510; May 18; v. 274; p. 604.
Candies. Southern Candy Company. No. 130,113; Apr. 6; v. 273; p. 181.
Candies. Stearns-Hollinshead Co. No. 128,869; Jan. 13; v. 270; p. 344.
Candies. Stearns-Hollinshead Co. No. 132,818; June 29; v. 275; p. 1019.
Candies. Sunnyland Fruit Company. No. 130,938; May 4; v. 270; p. 191.
Candies. Tiffin Products Inc. No. 135,092; Sept. 21; v. 278; p. 535.
Candies. E. A. Tuchschmidt. No. 138,141; Dec. 14; v. 281; p. 401.
Candies. V. Vivaudou. No. 130,969; May 4; v. 274; p. 192.
Candies. Wallace & Co. No. 136,977; Nov. 9; v. 280; p. 384.
Candies. Westmoreland Candy Co. No. 136,698; Nov. 2; v. 280; p. 189.
Candies. Wicks & Co. No. 136,701; Nov. 2; v. 280; p. 190.
Candies and chocolate. Mason, Au & Magenheimer Conf. Mfg. Co. No. 128,451; Jan. 6; v. 270; p. 182.
Candies and chocolate. Mason, Au & Magenheimer Conf. Mfg. Co. No. 130,817; May 4; v. 274; p. 187.
Candies and chocolates. D. A. P. Confectionery. No. 130,693; May 4; v. 274; p. 184.
Candies and chocolates. W. H. Gates. No. 128,709; Jan. 13; v. 270; p. 338.
Candies and chocolates. Gruenhagen's. No. 130,810; Apr. 20; v. 273; p. 620.
Candies and chocolates. Mason, Au & Magenheimer Conf. Mfg. Co. No. 134,022; Aug. 10; v. 277; p. 389.
Candies and chocolates. Mason, Au & Magenheimer Confectionary Manufacturing Company. No. 134,413; Aug. 31; v. 277; p. 973.
Candies and chocolates. Mason, Au & Magenheimer Conf. Mfg. Co. No. 136,861; Nov. 9; v. 280; p. 381.
Candies and confections, Marshmallow. Henry Heide, Incorporated. No. 131,488; May 18; v. 274; p. 604.
Candies and molasses kisses. C. Elliott. Nos. 137,995–6; Dec. 14; v. 281; p. 397.
Candies and nuts. Treisman Bro's & Diversi Co. No. 132,057; June 8; v. 275; p. 416.
Candies and sweetmeats. Henry Kupfer & Son. No. 138,045; Dec. 14; v. 281; p. 398.
Candies, Assorted. F. and J. Steffen. No. 135,539; Oct. 12; v. 279; p. 346.
Candies, Chocolate. Fidelity Chocolate Company. No. 137,597; Nov. 30; v. 280; p. 997.
Candies, Chocolate. The Gorton Chocolate Co. No. 133,418; July 27; v. 276; p. 769.
Candies, Chocolate. A. B. Mewhinney Co. Inc. No. 131,190; May 4; v. 274; p. 199.
Candies, Chocolate. Rueckheim Bros. & Eckstein. No. 130,897; May 4; v. 274; p. 190.
Candies, Chocolate. George Ziegler Company. No. 136,732; Nov. 2; v. 280; p. 191.
Candies, chocolates, and caramels. C. Siegel. No. 129,073; Jan. 20; v. 270; p. 476.
Candies, chocolates, bonbons. Ridley's, The Old Chambers Street Candy Manufactory. No. 137,386; Nov. 23; v. 280; p. 798.
Candies, cocoa, jellies, peanut-butter, &c. Bishop & Company. No. 130,639; May 4; v. 274; p. 182.
Candies, Edible composition for use as an ingredient of. Bugler & Goebel Company. No. 136,340; Nov. 2; v. 280; p. 178.
Candies, glacé nuts, barley toys. Mrs. B. F. Tilley, Jr. No. 134,291; Aug. 24; v. 277; p. 779.
Candies, Hard. Weber-Schlitz Candy Co. No. 131,667; May 18; v. 274; p. 610.
Candies, ice-cream, and pastry. Tiffin Products. No. 132,056; June 8; v. 275; p. 416.
Candies, Package-. W. Williams. No. 132,595; June 22; v. 275; p. 825.
Candies, sugar-roasted peanuts, jellies. H. A. Cohen. No. 136,379; Nov. 2; v. 280; p. 180.
Candy. A. G. Abraham Company. No. 135,880; Oct. 26; v. 279; p. 715.
Candy. Alfred S. Amer & Company. No. 136,292; Nov. 2; v. 280; p. 177.
Candy. American Candy Company. No. 132,877; July 6; v. 276; p. 199.
Candy. American Candy Manufacturing Co. No. 134,472; Sept. 7; v. 278; p. 159.
Candy. M. M. Anthony. No. 130,149; Apr. 13; v. 273; p. 401.
Candy. The C. S. Ball Candy Company. No. 129,326; Feb. 17; v. 271; p. 507.
Candy. The C. S. Ball Candy Company. No. 132,622; June 29; v. 275; p. 1073.
Candy. B. J. Baum. No. 136,751; Nov. 9; v. 280; p. 377.
Candy. Beinhauer Bros. Candy Co. No. 131,035; May 4; v. 274; p. 194.
Candy. J. S. Bell Confectionery Company. No. 131,036; May 4; v. 274; p. 194.
Candy. J. S. Bell Confectionery Company. No. 132,094; June 15; v. 275; p. 615.
Candy. J. S. Bell Confectionery Company. No. 135,395; Oct. 12; v. 279; p. 341.
Candy. E. F Bergengren No. 130,154; Apr. 13; v. 273; p. 401.
Candy. H. Bernstein. No. 137,492; Nov. 23; v. 280; p. 802.
Candy. Bodinson-Terrell Candy Co. No. 128,685; Jan. 13; v. 270; p. 336.
Candy. T. H. Bowdidge. No. 137,958; Dec. 14; v. 281; p. 396.
Candy. W. D. Buchanan. No. 133,917; Aug. 10; v. 277; p. 386.
Candy. The W. D. Buchanan Co. No. 137,566; Nov. 30; v. 280; p. 996.
Candy. Busath's Candy Shop. No. 136,765; Nov. 9; v. 280; p. 278.
Candy. F. R. Byrum & Company. No. 136,345; Nov. 2; v. 280; p. 179.
Candy. The Candy Craft Shops. No. 137,138; Nov. 23; v. 280; p. 790.
Candy. Cascade Industries Company. No. 132,637; June 29; v. 275; p. 1014.
Candy. Cardinet Candy Co. No. 130,472; Apr. 27; v. 273; p. 801.
Candy. Cardinet Candy Co. No. 135,410; Oct. 12; v. 279; p. 342.
Candy. Carlisle Bros. No. 135,939; Oct. 26; v. 279; p. 716.
Candy. The Catawba Candy Co. Nos. 135,626–9; Oct. 19; v. 279; p. 526.
Candy. Charles N. Miller Co. No. 128,789; Jan. 13; v. 270; p. 341.
Candy. Collins-Hencke Candy Co. No. 135,641; Oct. 19; v. 279; p. 527.
Candy. Continental Candy Corporation. No. 137,167; Nov. 23; v. 280; p. 791.
Candy. C. A. Crane. No. 128,661; Jan. 13; v. 270; p. 337.
Candy. C. A. Crane. No. 131,071; May 4; v. 274; p. 195.

Digitized by Google

Candy. C. A. Crane. Nos. 132,654–5; June 29; v. 275; p. 1014.
Candy. C. A. Crane. No. 132,921; July 6; v. 276; p. 200.
Candy. C. A. Crane. No. 133,111; July 13; v. 276; p. 401.
Candy. C. A. Crane. Nos. 133,941–2; Aug. 10; v. 277; p. 386.
Candy. C. A. Crane. No. 135,490; Sept. 7; v. 278; p. 159.
Candy. The Creole Praline Co. No. 137,979; Dec. 14; v. 281; p. 396.
Candy. Curtiss Candy Co. No. 135,422; Oct. 12; v. 279; p. 342.
Candy. Daisy Products Company. No. 131,936; June 1; v. 275; p. 199.
Candy. C. C. Delmonico. No. 133,952; Aug. 10; v. 277; p. 387.
Candy. Durand Company. No. 137,204; Nov. 23; v. 280; p. 792.
Candy. Elmer Candy Co. No. 136,410; Nov. 2; v. 280; p. 189.
Candy. Embee Distributing Company. No. 135,663; Oct. 19; v. 279; p. 527.
Candy. The Euclid Candy Company. Nos. 135,983–5; Oct. 26; v. 279; p. 718.
Candy. Eugene O. Reed Company. Nos. 136,165–6; Oct. 26; v. 279; p. 723.
Candy. W. A. Feuillan, Jr. No. 138,003; Dec. 14; v. 281; p. 397.
Candy. J. O. Gilbert. No. 131,118; May 4; v. 274; p. 196.
Candy. Grand Union Tea Co. No. 132,690; June 29; v. 275; p. 1015.
Candy. A. Greive. No. 130,739; May 4; v. 274; p. 185.
Candy. Guth Chocolate Company. No. 129,360; Feb. 17; v. 271; p. 508.
Candy. Guth Chocolate Company. No. 131,990; June 8; v. 275; p. 414.
Candy. W. T. Hall & Co. No. 138,016; Dec. 14; v. 281; p. 397.
Candy. D. E. Hamburger. No. 133,985; Aug. 10; v. 277; p. 388.
Candy. A. T. Harrell. No. 133,988; Aug. 10; v. 277; p. 388.
Candy. J. H. Hinck. No. 130,514; Apr. 27; v. 273; p. 803.
Candy. A. Iannella. No. 130,321; Apr. 20; v. 273; p. 621.
Candy. Jacobs Candy Company. No. 128,953; Jan. 20; v. 270; p. 472.
Candy. John G. Woodward & Co. No. 128,904; Jan. 13; v. 270; p. 345.
Candy. Jos. B. Funke Company. No. 128,702; Jan. 13; v. 270; p. 338.
Candy. Fuerst & Kraemer Limited. No. 134,949; Sept. 21; v. 278; p. 531.
Candy. The Golden Pheasant. No. 137,027; Nov. 16; v. 280; p. 583.
Candy. The Gorton Chocolate Co. No. 136,816; Nov. 9; v. 280; p. 379.
Candy. Halligan Candy Company. No. 137,253; Nov. 23; v. 280; p. 794.
Candy. Huggins Candy Co. No. 135,706; Oct. 19; v. 279; p. 528.
Candy. Imperial Candy Co. No. 137,273; Nov. 23; v. 280; p. 794.
Candy. E. Kappas. No. 131,106; May 4; v. 274; p. 196.
Candy. C. K. Kazanjian. No. 129,292; Feb. 10; v. 271; p. 356.
Candy. McKusick, Towle & Company. No. 136,521; Nov. 2; v. 280; p. 184.
Candy. J. Lang. No. 134,408; Aug. 31; v. 277; p. 973.
Candy. D. F. Magee. No. 132,018; June 8; v. 275; p. 415.
Candy. C. C. Mahan. No. 130,808; May 4; v. 274; p. 187.
Candy. L. T. Malone. No. 130,822; May 4; v. 274; p. 188.
Candy. W. S. Maroosis. No. 138,289; Dec. 21; v. 281; p. 565.
Candy. T. Marquetand. No. 131,184; May 4; v. 274; p. 198.
Candy. Melvin Candy Co. Nos. 128,456–7; Jan. 6; v. 270; p. 182.
Candy. Melvin Candy Co. No. 130,862; Apr. 20; v. 273; p. 622.
Candy. A. B. Mewhinney Co. No. 131,189; May 4; v. 274; p. 199.
Candy. W. A. Miller. No. 134,030; Aug. 10; v. 277; p. 389.
Candy. Mint Products Co. No. 137,043; Nov. 16; v. 280; p. 584.
Candy. A. G. Morse Co. No. 134,034; Aug. 10; v. 277; p. 389.
Candy. Morse, A. G., Co. No. 136,111; Oct. 26; v. 279; p. 722.
Candy. A. G. Morse Co. No. 137,836; Dec. 7; v. 281; p. 197.
Candy. The Nunnally Company. No. 135,373; Sept. 28; v. 278; p. 707.
Candy. Package Confectionery Company. No. 134,059; Aug. 10; v. 277; p. 390.
Candy. Package Confectionery Company. No. 135,374; Sept. 28; v. 278; p. 707.
Candy. Package Confectionery Company. Nos. 135,570–1; Oct. 12; v. 279; p. 347.
Candy. Page & Shaw. No. 132,771; June 29; v. 275; p. 1018.
Candy. Page & Shaw. No. 136,891; Nov. 9; v. 280; p. 382.
Candy. Palmer Candy Co. Nos. 134,061–2; Aug. 10; v. 277; p. 390.
Candy. Palmer Candy Co. No. 137,049; Nov. 16; v. 280; p. 584.
Candy. Paul F. Beich Co. No. 130,636; May 4; v. 274; p. 182.
Candy. Paul F. Beich Co. No. 135,393; Oct. 12; v. 279; p. 341.
Candy. R. Pauley. No. 132,777; June 29; v. 275; p. 1018.
Candy. Powell's. No. 135,775; Oct. 19; v. 279; p. 531.
Candy. The Redel Candy Corporation. Nos. 134,270–3; Aug. 24; v. 277; p. 779.
Candy. Reese & Company. No. 135,783; Oct. 19; v. 279; p. 531.
Candy. C. Fred. Regennas & Sons Company. No. 135,514; Oct. 12; v. 279; p. 345.
Candy. Reynolds-Lindheim Cigar Company. No. 129,208; Jan. 27; v. 270; p. 616.
Candy. J. H. Riegler. No. 136,912; Nov. 9; v. 280; p. 382.
Candy. J. H. Riegler. No. 137,058; Nov. 16; v. 280; p. 584.
Candy. Robert A. Johnston Company. No. 134,247; Aug. 24; v. 277; p. 278.
Candy. The Robert F. Mackenzie Co. Nos. 134,018–20; Aug. 10; v. 277; p. 389.
Candy. Robert F. Mackenzie Co. Nos. 137,322–3; Nov. 23; v. 280; p. 796.
Candy. The Robert F. Mackenzie Co. No. 137,510; Nov. 23; v. 280; p. 804.
Candy. P. Rosen. No. 136,605; Nov. 2; v. 280; p. 187.
Candy. Russell & Co. No. 137,390; Nov. 23; v. 280; p. 798.
Candy. Russell & Company. No. 134,278; Aug. 24; v. 277; p. 779.
Candy. Samoset Chocolate Company. Nos. 135,794–802; Oct. 19; v. 279; p. 531.
Candy. Samoset Chocolate Company. No. 137,061; Nov. 16; v. 280; p. 584.
Candy. Sanitary Food Manufacturing Co. No. 137,437; Nov. 23; v. 280; p. 799.
Candy. Schoenhofen Company. No. 136,617; Nov. 2; v. 280; p. 187.
Candy. Schuler Chocolate Factory. Nos. 133,035–6; July 6; v. 276; pp. 203–4.
Candy. Schuler Chocolate Factory. No. 134,082; Aug. 10; v. 277; p. 390.
Candy. Sears, Roebuck & Co. Nos. 131,235–6; May 4; v. 274; p. 200.
Candy. Shutter-Johnson Candy Co. No. 130,916; May 4; v. 274; p. 190.
Candy. Sioux Candy Co. No. 135,335; Sept. 28; v. 278; p. 705.
Candy. H. C. Small. No. 130,411; Apr. 20; v. 273; p. 628.
Candy. State Specialty Co. Nos. 138,130–1; Dec. 14; v. 281; p. 401.
Candy. Stephen F. Whitman & Son. No. 138,160; Dec. 14; v. 281; p. 402.
Candy. Stoddard, Gilbert & Co. No. 138,134; Dec. 14; v. 281; p. 401.
Candy. Sweet Candy Co. No. 134,444; Aug. 31; v. 277; p. 974.
Candy. Tiffin Products, Inc. No. 134,545; Sept. 7; v. 278; p. 161.
Candy. The Touraine Company. No. 137,396; Nov. 23; v. 280; p. 798.
Candy. Touraine Company. No. 138,207; Dec. 14; v. 281; p. 407.
Candy. United Drug Company. No. 130,956; May 4; v. 270; p. 191.
Candy. United Drug Company. No. 133,853; Aug. 3; v. 277; p. 178.
Candy. United Retail Candy Stores. No. 138,209; Dec. 14; v. 281; p. 407.
Candy. Universal Theatres Concessions Co. No. 134,552; Sept. 7; v. 278; p. 161.
Candy. Venus Chocolate Company. No. 132,064; June 8; v. 275; p. 416.
Candy. The Walter M. Lowney Company. No. 130,800; May 4; v. 274; p. 187.
Candy. Walter M. Lowney Company. Nos. 131,175–7; May 4; v. 274; p. 198.
Candy. F. H. Weiss. No. 128,569; Jan. 6; v. 270; p. 186.
Candy. Western Martha Washington Candies Co. No. 138,159; Dec. 14; v. 281; p. 402.
Candy. Westmoreland Candy Co. No. 134,298; Aug. 24; v. 277; p. 779.
Candy. William Beatty, Jr., & Co. No. 130,262; Apr. 20; v. 273; p. 619.
Candy. Williams Chocolate Co. No. 131,672; May 18; v. 274; p. 610.
Candy. P. Wunderle. No. 131,006; May 4; v. 274; p. 193.
Candy and cake coatings. Kelley-Clarke Co. No. 128,746; Jan. 13; v. 270; p. 340.
Candy and chocolate. The Redel Candy Corporation. No. 137,057; Nov. 16; v. 280; p. 584.

Digitized by Google

Alphabetical list of trade-marks—Continued.

Candy and confectionery. Halligan Candy Company. No. 136,486; Nov. 2; v. 280; p. 183.
Candy and fruit tablets. Charms Company. Nos. 130,669–70; May 4; v. 274; p. 183.
Candy and fruit tablets. Charms Co. No. 135,631; Oct. 19; v. 279; p. 526.
Candy-bars. M. Williams. No. 133,197; July 13; v. 276; p. 404.
Candy, Butter-scotch. B. C. Weisberg. No. 128,568; Jan. 6; v. 270; p. 186.
Candy, candied nuts and fruits. Wandell Chocolate Company. No. 137,738; Nov. 30; v. 280; p. 1001.
Candy, Chocolate. The W. D. Buchanan Co. No. 135,617; Oct. 19; v. 279; p. 526.
Candy, Chocolate. The W. D. Buchanan Company. No. 135,618; Oct. 19; v. 279; p. 526.
Candy, Chocolate. California Chocolate Shops. No. 135,623; Oct. 19; v. 279; p. 526.
Candy, Chocolate. Carlisle Bros. No. 135,938; Oct. 26; v. 279; p. 716.
Candy, Chocolate. Chocolate Products Company. No. 129,273; Feb. 10; v. 271; p. 355.
Candy, Chocolate. Chocolate Truffles Co. No. 135,177; Sept. 21; v. 278; p. 539.
Candy, Chocolate. J. O. Gilbert. No. 131,938; June 1; v. 275; p. 199.
Candy, Chocolate. Pennsylvania Chocolate Company. No. 135,186; Sept. 21; v. 278; p. 540.
Candy, Chocolate. Riesener Chocolate Co. No. 130,564; Apr. 27; v. 273; p. 804.
Candy, Chocolate. Theodore Gottman & Sons. No. 135,181; Sept. 21; v. 278; p. 539.
Candy, Chocolate. Theodore Gottmann & Sons. No. 138,543; Dec. 28; v. 281; p. 786.
Candy, Chocolate. The United Drug and Candy Manufacturing Company. No. 134,114; Aug. 10; v. 277; p. 391.
Candy, Chocolate. Watters Candy Company. No. 131,929; May 25; v. 274; p. 836.
Candy, Chocolate. Williams Chocolate Company. No. 130,996; May 4; v. 274; p. 198.
Candy, chocolate, and cocoa. Schoenhofen Company. No. 136,616; Nov. 2; v. 280; p. 187.
Candy Chocolate-bar. Halligan Candy Company. No. 136,823; Nov. 9; v. 280; p. 379.
Candy, Chocolate, cake, bread, &c. W. Lohr. No. 136,079; Oct. 26; v. 279; p. 721.
Candy, Chocolate-coated. L. T. Malone. No. 130,823; May 4; v. 274; p. 188.
Candy, chocolate, taffy, crackers. Western Martha Washington Candies Co. No. 136,696; Nov. 2; v. 280; p. 189.
Candy, confections, chocolate, &c. Ideal Cocoa & Chocolate Co. Nos. 132,710–11; June 29; v. 275; p. 1016.
Candy, Covering used to coat. H. O. Wilbur & Sons. No. 129,102; Jan. 20; v. 270; p. 477.
Candy, confectionery, Chocolate. Croft & Allen Company. No. 137,777; Dec. 7; v. 281; p. 195.
Candy-filling, icing, and toppings. White Stokes Co. No. 128,901; Jan. 13; v. 270; p. 845.
Candy, fresh fruits, and nuts. Canterbury Candy Makers. No. 135,208; Sept. 28; v. 278; p. 701.
Candy, Hard-panned. Mason, Au & Magenheimer Confectionery Manufacturing Company. No. 136,860; Nov. 9; v. 280; p. 381.
Candy-making machinery and parts thereof. G. K. Bainbridge. No. 133,573; Aug. 3; v. 277; p. 169.
Candy, Marshmallow. The Edw. M. Becker Company. No. 133,907; Aug. 10; v. 277; p. 385.
Candy, Mint. American Chicle Company. No. 137,530; Nov. 30; v. 280; p. 995.
Candy, Packages of. Cremint Co. No. 137,978; Dec. 14; v. 281; p. 396.
Candy, pastry, tea, &c. Louis Sherry, Inc. No. 129,897; Feb. 17; v. 271; p. 509.
Candy tablets. D. B. Weinstein. No. 137,077; Nov. 16; v. 280; p. 585.
Candy tablets, Fruit-juice. P. K. Condress. No. 136,384; Nov. 2; v. 280; p. 180.
Candy, Taffy. F. R. Newton. No. 136,555; Nov. 2; v. 280; p. 185.
Candles. The Atlantic Refining Company. No. 136,746; Nov. 9; v. 280; p. 377.
Candles. General Candle Manufacturing Co. No. 137,610; Nov. 30; v. 280; p. 997.
Candles. Safety Night Light Company. No. 132,796; June 29; v. 275; p. 1019.
Candles. Tiffany & Co. Nos. 138,354–5; Dec. 21; v. 281; p. 567.
Canes, parasols, and umbrellas. Tiffany & Company. No. 133,528; July 27; v. 276; p. 772.
Canes, parasols, and umbrellas. Tiffany & Company. No. 135,091; Sept. 21; v. 278; p. 535.
Canned and crushed fruits, preserves, and jams. Puyallup and Sumner Fruit Growers Canning Co. No. 134,269; Aug. 24; v. 277; p. 778.
Canned and preserved fruits, Fresh, dried. G. E. Hyde. 136,474.; Nov. 2; v. 280; p. 183.
Canned apricots. Manteca Canning Co. No. 132,739; June 29; v. 275; p. 1017.
Canned beans. Marshall Canning Company. No. 129,025; Jan. 20; v. 270; p. 474.
Canned concentrated clam and oyster juices. Moluska Corporation. No. 135,286; Sept. 28; v. 278; p. 704.
Canned condensed milk. Consolidated Creameries. No. 130,052; Apr. 6; v. 273; p. 179.
Canned condensed milk. Hencken & Burner. No. 131,321; May 11; v. 274; p. 400.
Canned corn. Clarksville Canning Co. No. 130,281; Apr. 20; v. 273; p. 620.
Canned corn and peas. Waterloo Canning Association. No. 130,440; Apr. 20; v. 273; p. 624.
Canned corn, tomatoes, peas, &c. Consolidated Companies. No. 134,487; Sept. 7; v. 278; p. 159.
Canned egg-plant, macaroni-seasoning, &c. Progress Grocery Company. No. 137,850; Dec. 7; v. 281; p. 198.
Canned evaporated milk. Alpine Evaporated Cream Co. No. 134,336; Aug. 31; v. 277; p. 971.
Canned, &c., figs. H. W. Shepard. No. 137,697; Nov. 30; v. 280; p. 1000.
Canned fish. Alaska Bakonized Fish Co. No. 130,253; Apr. 20; v. 273; p. 619.
Canned fish. American-Mexican Packing Company. No. 136,299; Nov. 2; v. 280; p. 177.
Canned fish. American Oriental Sales Corporation. No. 137,092; Nov. 23; v. 280; p. 789.
Canned fish. M. Beck. No. 130,684; May 4; v. 274; p. 182.
Canned fish. M. M. Berne. No. 137,122; Nov. 23; v. 280; p. 790.
Canned fish. International Packing Corporation of California. No. 138,033; Dec. 14; v. 281; p. 398.
Canned fish. L. A. Sea Food Packing Co. No. 130,911; May 4; v. 274; p. 190.
Canned fish. L. A. Sea Food Packing Co. No. 131,174; May 4; v. 274; p. 198.
Canned fish. Lawrence Canning Co. No. 130,790; v. 274; p. 187.
Canned fish. Lower California Packing Plants. No. 134,015; Aug. 10; v. 277; p. 389.
Canned fish. O'Loane Kiely & Co. No. 137,841; Dec. 7; v. 281; p. 197.
Canned fish. Paxton & Gallagher Co. No. 134,263; Aug. 24; v. 277; p. 778.
Canned fish. Redondo Packing Co. No. 137,881; Nov. 23; v. 280; p. 797.
Canned fish. Standard Canning Co. No. 136,645; Nov. 2; v. 280; p. 188.
Canned fish. C. E. Van Landingham. No. 131,868; May 25; v. 274; p. 835.
Canned fish. Von Bremen, Asche & Co. No. 132,851; June 29; v. 275; p. 1020.
Canned fish. Willard S. Cates Packing Company. No. 135,565; Oct. 12; v. 279; p. 347.
Canned fish and clams. Sidney Canning Co. No. 129,219; Jan. 27; v. 270; p. 616.
Canned fish—viz., canned salmon. A. Rupert Company. No. 132,791; June 29; v. 275; p. 1018.
Canned fish, fruit, and vegetables. Warrenton Clam Co. No. 135,849; Oct. 19; v. 279; p. 533.
Canned fish, fruits, and vegetables, cheese, &c. I. Burger. No. 133,602; Aug. 3; v. 277; p. 170.
Canned foods. A. Rupert Company. No. 132,792; June 29; v. 275; p. 1018.
Canned foods, catsup, &c. Walker-Matteson Co. No. 129,096; Jan. 20; v. 270; p. 476.
Canned foods, dried fruits, &c. American Trading Co. of the Pacific Coast. No. 128,285; Jan. 6; v. 270; p. 777.
Canned fruit. W. R. Grace & Co. No. 133,981; Aug. 10; v. 277; p. 387.
Canned fruit and vegetables. Beterpack Canning Company. Nos. 136,326–7; Nov. 2; v. 280; p. 178.
Canned fruit and vegetables. Norwood Canning and Manufacturing Co. No. 136,562; Nov. 2; v. 280; p. 185.
Canned fruit and vegetables and fruit preserves. Croker Packing Co. No. 137,175; Nov. 23; v. 280; p. 791.
Canned fruit, coffees, &c. A. M. Malouf. No. 129,023; Jan. 20; v. 270; p. 474.
Canned fruit-pulp. H. M. Michaelis. No. 129,994; Mar. 16; v. 272; p. 539.
Canned fruits. Amalgamated Trading Company. No. 132,282; June 22; v. 275; p. 815.
Canned fruits. Bay Side Canning Co. No. 132,293; June 22; v. 275; p. 815.
Canned fruits. Bay Side Canning Co. No. 137,550; Nov. 30; v. 280; p. 993.
Canned fruits. R. S. Beston & Co. No. 137,948; Dec. 14; v. 281; p. 395.
Canned fruits. California Sanitary Canning Co. No. 130,274; Apr. 20; v. 273; p. 619.
Canned fruits. Calima Canning Co. No. 132,102; June 15; v. 275; p. 615.
Canned fruits. Charles Stern & Sons. Nos. 128,872–3; Jan. 13; v. 270; p. 344.
Canned fruits. Charles Stern & Sons. No. 129,225; Jan. 27; v. 270; p. 616.
Canned fruits. Charles Stern & Sons Inc. No. 131,243; May 4; v. 274; p. 200.
Canned fruits. Colonial Preserve Company. No. 134,486; Sept. 7; v. 278; p. 159.
Canned fruits, &c. J. F. Cramer. No. 128,341; Jan. 6; v. 270; p. 179.
Canned fruits. Golden State Canneries. No. 131,904; May 25; v. 274; p. 836.
Canned fruits. Graves Canning Co. No. 137,028; Nov. 16; v. 280; p. 583.

Digitized by Google

Canned fruits. Harbor City Canning Company. No. 131,483; May 18; v. 274; p. 604.
Canned fruits. Herbert Packing Co. No. 133,991; Aug. 10; v. 277; p. 388.
Canned fruits. Hunt Brothers Packing Company. No. 136,472; Nov. 2; v. 280; p. 188.
Canned fruits. Manteca Packing Company. No. 131,344; May 11; v. 274; p. 401.
Canned fruits. Manteca Packing Company. No. 131,799; May 25; v. 274; p. 832.
Canned fruits. Manteca Packing Company. No. 132,740; June 29; v. 275; p. 1017.
Canned fruits. Manteca Packing Company. No. 135,568; Oct. 12; v. 279; p. 347.
Canned fruits, &c. Simon Bros. Company. No. 128,517; Jan. 6; v. 270; p. 184.
Canned fruits. United States Trading Corporation. No. 130,587; Apr. 27; v. 273; p. 805.
Canned fruits. C. E. Van Landingham. No. 131,254; May 4; v. 274; p. 201.
Canned fruits. M. Villapol. No. 129,915; Mar. 9; v. 272; p. 369.
Canned fruits. Western Canning Company. No. 131,387; May 11; v. 274; p. 402.
Canned fruits. Western Canning Company. No. 131,881; May 25; v. 274; p. 835.
Canned fruits. Western Canning Company. No. 136,257; Oct. 26; v. 279; p. 726.
Canned fruits. Western Canning Company. No. 136,693; Nov. 2; v. 280; p. 189.
Canned fruits and berries. Starr Fruits Products Co. No. 132,817; June 29; v. 275; p. 1019.
Canned fruits and coffees. The Nebraska & Iowa Mercantile Co. No. 136,553; Nov. 2; v. 280; p. 185.
Canned fruits and fish. J. Aron & Company. No. 136,306; Nov. 2; v. 280; p. 177.
Canned fruits and tomato paste. H. M. Newhall & Co. No. 138,076; Dec. 14; v. 281; p. 399.
Canned fruits and tomatoes. O. A. Nelson. No. 132,215; June 15; v. 275; p. 619.
Canned fruits and tomatoes. O. A. Nelson; Nos. 132,462–8; June 22; v. 275; p. 821.
Canned fruits and vegetables. Alfred Putnam & Company. No. 129,204; Jan. 27; v. 270; p. 616.
Canned fruits and vegetables. Bay Side Canning Co. Nos. 135,911–2; Oct. 26; v. 279; p. 716.
Canned fruits and vegetables. Beterpack Canning Co. Nos. 135,914–5; Oct. 26; v. 279; p. 716.
Canned fruits and vegetables. Bisceglia Brothers. No. 133,910; Aug. 10; v. 277; p. 385.
Canned fruits and vegetables. Bisceglia Brothers. No. 137,030; Nov. 16; v. 280; p. 583.
Canned fruits and vegetables. Bisceglia Brothers. No. 137,947; Dec. 14; v. 281; p. 395.
Canned fruits and vegetables. California Co-Operative Canneries. No. 135,934; Oct. 26; v. 279; p. 716.
Canned fruits and vegetables. California Co-Operative Canneries. No. 137,962; Dec. 14; v. 281; p. 396.
Canned fruits and vegetables. Charles E. Moody & Co. No. 135,493; Oct. 12; v. 279; p. 344.
Canned fruits and vegetables. Charles G. Summers & Co. No. 136,656; Nov. 2; v. 280; p. 188.
Canned fruits and vegetables. China, Japan & South America Trading Co. No. 132,330; June 22; v. 275; p. 816.
Canned fruits and vegetables. China, Japan & South America Trading Co. No. 133,933; Aug. 10; v. 277; p. 386.
Canned fruits and vegetables. Croker Packing Co. No. 131,295; May 11; v. 274; p. 399.
Canned fruits and vegetables. Croker Packing Co. No. 132,343; June 22; v. 275; p. 817.
Canned fruits and vegetables. Emery Food Co. No. 131,103; May 4; v. 274; p. 196.
Canned fruits and vegetables. Fairfield Canning Company. No. 131,981; June 8; v. 275; p. 414.
Canned fruits and vegetables. Felice & Perrilli Canning Co. No. 136,417; Nov. 2; v. 280; p. 181.
Canned fruits and vegetables. Herbert Packing Co. Nos. 132,965–6; July 6; v. 276; p. 201.
Canned fruits and vegetables. Herbert Packing Co. No. 133,990; Aug. 10; v. 277; p. 388.
Canned fruits and vegetables. Herbert Packing Co. No. 136,459; Nov. 2; v. 280; p. 182.
Canned fruits and vegetables. Manteca Canning Co. Nos. 132,737–8; June 29; v. 275; p. 1017.
Canned fruits and vegetables. J. Menist Company. No. 130,364; Apr. 20; v. 273; p. 622.
Canned fruits and vegetables. Peck & Pratt. No. 129,824; Mar. 9; v. 272; p. 366.
Canned fruits and vegetables. Richmond-Chase Company. Nos. 134,275–7; Aug. 24; v. 277; p. 779.
Canned fruits and vegetables. A. Rupert Company. No. 131,923; May 25; v. 274; p. 836.
Canned fruits and vegetables. San Leandro Canning Co. Nos. 136,180–1; Oct. 26; v. 279; p. 724.
Canned fruits and vegetables. Richmond-Chase Company. No. 134,530; Sept. 7; v. 278; p. 160.
Canned fruits and vegetables. Smith-Frank Packing Co. No. 129,080; Jan. 20; v. 270; p. 476.
Canned fruits and vegetables. The Springville Canning Co. No. 136,197; Oct. 26; v. 279; p. 724.
Canned fruits and vegetables. The Springville Canning Co. No. 136,639; Nov. 2; v. 280; p. 188.
Canned fruits and vegetables. Western Canning Company. No. 136,694; Nov. 2; v. 280; p. 189.
Canned fruits and vegetables and vanilla and lemon extracts. Flaherty & Urbanowski Co. No. 129,157; Jan. 27; v. 270; p. 614.
Canned fruits and vegetables, tea, &c. H. T. Lange Company. No. 129,015; Jan. 20; v. 270; p. 474.
Canned fruits, coffees, and jelly-powders. The Nebraska & Iowa Mercantile Co. No. 136,554; Nov. 2; v. 280; p. 185.
Canned fruits, jams, and preserves. The Shaw Family, Inc. Nos. 134,085–6; Aug. 10; v. 277; p. 391.
Canned fruits, vegetables, and fish. China, Japan and South America Trading Co. No. 132,642; June 29; v. 275; p. 1014.
Canned fruits, vegetables, and fish. Hale Company. No. 131,131; May 4; v. 274; p. 197.
Canned fruits, vegetables, and fish. A. Rupert Company. No. 134,435; Aug. 31; v. 277; p. 974.
Canned fruits, vegetables, and fish. Tibbitts-Hewitt Grocery Co. No. 137,068; Nov. 16; v. 280; p. 584.
Canned fruits, vegetables, and fish and dried fruits. Dodge, Sweeney & Co. No. 138,285; Dec. 21; v. 281; p. 563.
Canned fruits, vegetables, and jams. Croker Packing Co. No. 132,659; June 29; v. 275; p. 1014.
Canned fruits, vegetables, and milk. Griffith-Durney Co. No. 137,029; Nov. 16; v. 280; p. 583.
Canned fruits, vegetables, and sauer-kraut. West Coast Pickling & Canning Co. No. 137,412; Nov. 23; v. 280; p. 798.
Canned goods. Black and Gay Canners. No. 137,950; Dec. 14; v. 281; p. 395.
Canned goods. A. Kickbusch Grocery Co. No. 134,250; Aug. 24; v. 277; p. 778.
Canned goods, jam, &c. J. Menist Company. No. 130,547; Apr. 27; v. 273; p. 804.
Canned hair preparation. J. Holloway. No. 136,039; Oct. 26; v. 279; p. 719.
Canned lobster, crabs, and fish. K. Miyauchi. No. 128,463; Jan. 6; v. 270; p. 182.
Canned lye, bluing, and ammonia in glass. Johnson & Murray, Inc. No. 134,399; Aug. 31; v. 277; p. 973.
Canned mackerel. P. Barna. No. 134,217; Aug. 24; v. 277; p. 777.
Canned meats, soup, &c. Boston Food Products Company. No. 130,649; May 4; v. 274; p. 182.
Canned milk. Krenning-Schlapp Grocer Company. No. 130,336; Apr. 20; v. 273; p. 621.
Canned milk. Libby, McNeill & Libby. No. 138,053; Dec. 14; v. 281; p. 399.
Canned milk. Overseas Products Corporation. No. 136,140; Oct. 26; v. 279; p. 723.
Canned mushrooms. Deveau Packing Co. No. 137,194; Nov. 23; v. 280; p. 792.
Canned olive-oil. Virgona & Company. No. 129,405; Feb. 17; v. 271; p. 509.
Canned peaches and apricots. Charles Stern & Sons. No. 128,531; Jan. 6; v. 270; p. 184.
Canned peaches and apricots. Charles Stern & Sons. Nos. 128,867–8; Jan. 13; v. 270; p. 343.
Canned peaches and apricots. San Fernando Canning Co. No. 134,534; Sept. 7; v. 278; p. 161.
Canned peaches and apricots. United Canneries Company of California. No. 132,842; June 29; v. 275; p. 1020.
Canned peaches, pears, and tomatoes. Popular Canning Co. No. 134,067; Aug. 10; v. 277; p. 390.
Canned pears and tomatoes. John E. Diament Company. No. 137,195; Nov. 23; v. 280; p. 792.
Canned pears, salmon, and tomatoes. Christenson, Hanify & Weatherwax. No. 128,652; Jan. 13; v. 270; p. 337.
Canned pilchards and sardines. B. Senderman. No. 129,584; Feb. 24; v. 271; p. 681.
Canned pineapples. Hawaiian Pineapple Company. Nos. 130,509–10; Apr. 27; v. 273; p. 802.
Cards, Place and greeting. The Buzza Company. No. 129,635; Mar. 9; v. 272; p. 361.
Canned pork and beans, apple-butter, jams and jelly. Acme Packing Co. No. 134,332; Aug. 31; v. 277; p. 971.
Canned pork and beans, apple-butter, jams, &c. The Acme Packing Company. No. 132,602; June 29; v. 275; p. 1013.
Canned red and green peppers, &c. Pomona Products Co. No. 131,919; May 25; v. 274; p. 836.
Canned salmon. Aberdeen Packing Co. No. 128,587; Jan. 13; v. 270; p. 335.
Canned salmon. Aberdeen Packing Co. No. 131,012; May 4; v. 274; p. 193.
Canned salmon. American Factors, Limited. No. 130,455; Apr. 27; v. 273; p. 801.
Canned salmon. A. O. Andersen & Co. Nos. 128,606–8; Jan. 13; v. 270; p. 335.
Canned salmon. D. Connor. No. 132,653; June 29; v. 275; p. 1014.
Canned salmon. Haas, Baruch & Co. No. 131,905; May 25; v. 274; p. 836.
Canned salmon. Kelley-Clarke Co. No. 130,776; May 4; v. 274; p. 186.
Canned salmon. Marathon Fishing & Packing Co. No. 128,448; Jan. 6; v. 270; p. 182.
Canned salmon. E. B. McGovern. No. 128,774; Jan. 13; v. 270; p. 341.

Digitized by Google

Alphabetical list of trade-marks—Continued.

Canned salmon. E. B. McGovern. No. 129,370; Feb. 17; v. 271; p. 508.
Canned salmon. New York Pacific Commercial Company. No. 130,849; May 4; v. 274; p. 188.
Canned salmon. Northwest Trading Company. No. 136,883; Nov. 9; v. 280; p. 381.
Canned salmon. Seaboard Commercial Company. No. 135,809; Oct. 19; v. 279; p. 532.
Canned salmon. Seaboard Commercial Co. No. 136,621; Nov. 2; v. 280; p. 187.
Canned salmon. Western Fisheries Company. Nos. 128,897–8; Jan. 13; v. 270; p. 344.
Canned salmon and herring. Alaska Salmon & Herring Jackers. No. 130,598; May 4; v. 274; p. 181.
Canned salmon and oysters. Getz Bros. & Co. No. 132,385; June 22; v. 275; p. 818.
Canned salmon, peaches, and tomatoes. Christenson, Hanify & Weatherwax. No. 128,651; Jan. 13; v. 270; p. 337.
Canned, salted, and pickled fish. Alaska Salmon Co. No. 134,208; Aug. 24; v. 277; p. 777.
Canned sardines. American Mexican Packing Co. No. 130,256; Apr. 20; v. 273; p. 619.
Canned sardines. Edward T. Russell & Co. No. 136,609; Nov. 2; v. 280; p. 187.
Canned sardines. Globe Canning Company. Nos. 134,241–3; Aug. 24; v. 277; p. 778.
Canned sardines. Globe Canning Company. No. 136,436; Nov. 2; v. 280; p. 181.
Canned sardines. A. S. Gouvea & Co. No. 128,392; Jan. 6; v. 270; p. 180.
Canned sardines. Lubec Sardine Co. No. 128,434; Jan. 6; v. 270; p. 181.
Canned sardines. Lubec Sardine Company. No. 129,019; Jan. 20; v. 270; p. 474.
Canned sardines. Neptune Sea Food Co. No. 130,872; Apr. 20; v. 273; p. 622.
Canned sardines. Neptune Sea Food Co. No. 135,750; Oct. 19; v. 279; p. 530.
Canned sardines. Seacoast Canning Co. No. 136,930; Nov. 9; v. 280; p. 383.
Canned sardines. Steele Packing Co No. 128,529; Jan. 6; v. 270; p. 184.
Canned sardines. William Underwood Company. No. 134,453; Aug. 31; v. 277; p. 974.
Canned shrimp. C. B. Foster. No. 134,362; Aug. 31; v. 277; p. 972.
Canned small fish in oil. American Trading Company. No. 137,928; Dec. 14; v. 281; p. 395.
Canned sugar-corn. Warrensburg Canning Company. No. 130,439; Apr. 20; v. 273; p. 624.
Canned sugar-corn. Warrensburg Canning Company. No. 130,986; May 4; v. 274; p. 192.
Canned sugar-corn. Warrensburg Canning Company. No. 136,981; Nov. 9; v. 280; p. 384.
Canned tea. S. Nishikawa. No. 132,758; June 29; v. 275; p. 1017.
Canned tomatoes, &c. Italian Food Products Co. No. 131,503; May 18; v. 274; p. 604.
Canned tomatoes, tomato paste, and olive-oil. A. & C. Buseaglia Co. No. 129,435; Feb. 24; v. 271; p. 677.
Canned tuna fish. White Star Canning Co. No. 132,275; June 15; v. 275; p. 621.
Canned tuna fish. White Star Canning Co. No. 133,870; Aug. 3; v. 277; p. 179.
Canned tuna fish and tomatoes, olive-oil. F. Romeo & Co. No. 135,524; Oct. 12; v. 279; p. 345.
Canned vegetables. Adam Brothers & Sellers Company. No. 137,524; Nov. 30; v. 280; p. 995.
Canned vegetables. J. E. Barr Pickling & Preserving Company. No. 132,623; June 29; v. 275; p. 1013.
Canned vegetables. J. E. Barr Pickling & Preserving Company. Nos. 132,891–2; July 6; v. 276; p. 199.
Canned vegetables. Beardstown Grocer Co. No. 135,600; Oct. 19; v. 279; p. 525.
Canned vegetables. California Packing Corporation. No. 133,222; July 20; v. 276; p. 589.
Canned vegetables. Crary Brokerage Company. No. 132,656; June 29; v. 275; p. 1014.
Canned vegetables. C. O. Dawson. Nos. 133,946–9; Aug. 10; v. 277; p. 386.
Canned vegetables. Dickinson & Co. No. 138,540; Dec. 28; v. 281; p. 785.
Canned vegetables. Dixie Fruit Products Corporation. No. 134,354; Aug. 31; v. 277; p. 971.
Canned vegetables. General Coffee & Tea Co. No. 131,309; May 11; v. 274; p. 400.
Canned vegetables. E. Gernert. No. 130,729; May 4; v. 274; p. 185.
Canned vegetables. Gibbs Preserving Co. No. 130,501; Apr. 27; v. 273; p. 802.
Canned vegetables. Grand River Canning Co. No. 128,987; Jan. 20; v. 270; p. 473.
Canned vegetables. Green Mountain Packing Company. No. 131,988; June 8; v. 275; p. 414.
Canned vegetables. Grimes-Perry Canning Company. No. 131,316; May 11; v. 274; p. 400.
Canned vegetables. Lange Canning Co. No. 136,849; Nov. 9; v. 280; p. 380.
Canned vegetables. The Mount Airy Canning Co. No. 132,749; June 29; v. 275; p. 1017.
Canned vegetables. The Sears and Nichols Canning Company. No. 130,912; May 4; v. 274; p. 190.
Canned vegetables. The Springville Canning Co. No. 136,198; Oct. 26; v. 279; p. 724.
Canned vegetables. Vidalia Grocery Company. No. 138,154; Dec. 14; v. 281; p. 402.
Canned vegetables. Wabash Valley Packing Co. No. 132,065; June 8; v. 275; p. 416.
Canned vegetables and dried fruits. California Packing Corporation. No. 132,318; June 22; v. 275; p. 816.
Canned vegetables and fruit butter. C. E. Aulabaugh. No. 137,542; Nov. 30; v. 280; p. 995.
Canned vegetables and fruits. Frank Canning Co. No. 136,424; Nov. 2; v. 280; p. 181.
Canned vegetables and fruits. J. Menist Company. No. 134,027; Aug. 10; v. 277; p. 389.
Canned vegetables and fruits. San Jose Canning Co. Nos. 134,279–80; Aug. 24; v. 277; p. 779.
Canned vegetables and fruits. San Jose Canning Co. No. 135,803; Oct. 19; v. 279; p. 531.
Canned vegetables and fruits. Yager & Halstead. No. 136,710; Nov. 2; v. 280; p. 190.
Canned vegetables and fruits, dried fruits, jellies, &c. California Packing Corporation. No. 129,131; Jan. 27; v. 270; p. 613.
Canned vegetables and fruits, jellies, &c. California Packing Corporation. No. 128,951; Jan. 20; v. 270; p. 472.
Canned vegetables and fruits, jellies, &c. L. S. Troville. No. 128,546; Jan. 6; v. 270; p. 185.
Canned vegetables and fruits, preserves, pickles. C. B. Mallard Co. No. 135,483; Oct. 12; v. 279; p. 344.
Canned vegetables, fruits, and jams. Croker Packing Co. No. 132,658; June 29; v. 275; p. 1014.
Canned vegetables, fruits, shrimp, and oysters. Smith & Nessle Co. No. 135,535; Oct. 12; v. 279; p. 345.
Canned vegetables, sliced dried beef, jam, coffee, &c. Johnson & Murray. No. 134,398; Aug. 31; v. 277; p. 973.
Canning apparatus. Kwick-Bath Mfg. Corporation. No. 128,756; Jan. 13; v. 270; p. 340.
Cans, Ash, garbage, and oil. M. Kamenstein. No. 130,769; May 4; v. 274; p. 170.
Cans, Jacketed. E. S. Johnson. No 136,050; Oct. 26; v. 279; p. 720.
Cantaloups. H. M. Stephens. No. 138,350; Dec. 21; v. 281; p. 567.
Canvas, dress-linens, &c. Edward P. Stahel & Co. No. 129,545; Feb. 24; v. 271; p. 681.
Canvas for coat-fronts. J. Manowitz & Sons. No. 129,499; Feb. 24; v. 271; p. 679.
Cappers suitable for fastening metallic caps upon bottles, glasses, &c. Home Accessories Co. No. 138,025; Dec. 14; v. 281; p. 398.
Caps. Chas. Tobias Bro. & Company. No. 130,425; Apr. 20; v. 273; p. 624.
Caps. Jackoway and Katz Cap Co. No. 129,170; Jan. 27; v. 270; p. 615.
Caps and hats. Capitol Cap Company. No. 135,937; Oct. 26; v. 279; p. 716.
Caps and hats for men and boys. Bowman-Moore Hat Company. No. 138,222; Dec. 21; v. 281; p. 563.
Caps and hats for men and children. J. P. Cody. No. 130,675; May 4; v. 274; p. 183.
Caps and hats, Men's and boys'. Langenberg Hat Company. No. 131,011; May 4; v. 274; p. 193.
Caps, Men's and boys'. Fine & Levy. No. 133,655; Aug. 3; v. 277; p. 172.
Caps, Women's. M. D. Cannon. No. 132,104; June 15; v. 275; p. 616.
Capsules for headache, Medicated. C. P. Sohn. No. 132,535; June 22; v. 275; p. 823.
Capsules of benzol benzoate. William S. Merrell Company. No. 138,486; Dec. 28; v. 281; p. 783.
Capsules, Urinary antiseptic. Sharp & Dohme. No. 132,522; June 22; v. 275; p. 823.
Car-couplings. National Car Coupler Company. Nos. 138,071–2; Dec. 14; v. 281; p. 399.
Cars and car-trucks. The J. G. Brill Company. No. 135,201; Sept. 28; v. 278; p. 701.
Cars and dump-wagons, Dump, spreader, and flat. Western Wheeled Scraper Company. No. 135,162; Sept. 21; v. 278; p. 537.
Cars and engines, Coupling for railway. National Malleable Castings Company. No. 138,399; Dec. 21; v. 281; p. 571.
Cars and exports thereof, Railway-. Commonwealth Steel Company. No. 130,680; May 4; v. 274; p. 183.
Cars, Motor-. The New Merlin Cycle Co. No. 130,218; Apr. 13; v. 273; p. 408.
Cars, Pleasure motor-. Dixie Motor Car Company. No. 130,012; Mar. 23; v. 272; p. 781.
Cars, Railway-. Standard Steel Car Company. No. 138,404; Dec. 21; v. 281; p. 571.
Cars, Railway hand-. Buda Company. No. 130,045; Apr. 6; v. 273; p. 179.
Cars, Steam and air pipe couplings for railway-. J. Robinson. No. 137,059; Nov. 16; v. 280; p. 584.
Cars, Tank-. General American Tank Car Corporation. No. 132,948; July 6; v. 276; p. 201.
Cars, Tank-. General American Tank Car Corporation. No. 136,006; Oct. 26; v. 279; p. 718.
Cars, trucks, &c. Koppel Industrial Car & Equipment Company. No. 129,990; Mar. 16; v. 272; p. 539.

Digitized by Google

Caramel bars. S. Ruttenberg. No. 128,509; Jan. 6; v. 270; p. 184.
Caramel, burnt, brewing, and colored sugars. Lichtenstein & Company. No. 137,089; Nov. 16; v. 280; p. 584.
Caramels, chocolates, &c. B. L. Johnson & Co. No. 128,410; Jan. 6; v. 270; p. 181.
Caramels, Nut-. F. M. Paist Company. No. 134,060; Aug. 10; v. 277; p. 390.
Carbon-black. Liberty Carbon Company. No. 129,295; Feb. 10; v. 271; p. 356.
Carbon deposit from cylinders of internal-combustion engines, Compound for removing. Northwestern Chemical Co. No. 136,561; Nov. 2; v. 280; p. 185.
Carbon-paper and typewriter-ribbons. Crown Ribbon and Carbon Mfg. Co. No. 133,945; Aug. 10; v. 277; p. 386.
Carbon-preventive or gas intensifier, Chemical. C. A. Butler. Nos. 132,314–5; June 22; v. 275; p. 816.
Carbon-remover. Fearless Products Manufacturing Corporation. No. 131,306; May 11; v. 274; p. 400.
Carbon-remover. The National Rubber Company. No. 136,550; Nov. 2; v. 280; p. 185.
Carbon-remover for gas-engine cylinders. Reilly-Snyder Manf'g Co. No. 136,598; Nov. 2; v. 280; p. 186.
Carbon-remover for internal-combustion engines. Carb-Out Laboratories Company. No. 136,544; Nov. 2; v. 280; p. 185.
Carbon-removers. The Ryan-Eastman Co. No. 132,794; June 29; v. 275; p. 1015.
Carbon-removing compound. G. W. Graham. No. 138,009; Dec. 14; v. 281; p. 397.
Carbon-solvent and fuel-saver. W. F. Myers. No. 128,466; Jan. 6; v. 270; p. 182.
Carbons, Electric. The General Electric Company. No. 134,656; Sept. 14; v. 278; p. 355.
Carbureters. The Aero Products Company. No. 134,148; Aug. 17; v. 277; p. 581.
Carbureters. Carter Carburetor Company. No. 136,359; Nov. 2; v. 280; p. 179.
Carbureters. Carter Carburetor Company. No. 137,031; Nov. 16; v. 280; p. 583.
Carbureters. Carter Carburetor Company. No. 137,019; Nov. 16; v. 280; p. 583.
Carbureters. Carter Carbureter Company. No. 137,965; Dec. 14; v. 281; p. 396.
Carbureters. Sunderman Corporation. No. 135,343; Sept. 28; v. 278; p. 705.
Carbureters. Van Briggle Motor Device Company. No. 128,557; Jan. 6; v. 270; p. 185.
Carbureters and air-regulating devices for internal-combustion engines. Hexman Moto Company. No. 135,694; Oct. 19; v. 279; p. 528.
Carbureters and mixing-manifolds for internal-combustion engines. The Wight Investment Company. No. 130,248; Apr. 13; v. 273; p. 404.
Carbureters, mechanical carbon-removers, and air-traps, &c. Romul Manufacturing Company. No. 137,690; Nov. 30; v. 280; p. 1000.
Cardboard, bristol-board, and coated paper, Coated. A. M. Collins Manufacturing Company. No. 132,651; June 29; v. 275; p. 1014.
Cards, Advertising-. Bert L. White Company. No. 134,131; Aug. 10; v. 277; p. 392.
Cards and chips, cribbage-boards, Playing. Tiffany & Company. No. 137,722; Nov. 30; v. 280; p. 1001.
Cards and chips, cribbage-boards, Playing-. Tiffany & Company. No. 137,883; Dec. 7; v. 281; p. 199.
Cards, class-record books, &c., School-report. The Educational Supply Company. No. 133,958; Aug. 10; v. 277; p. 387.
Cards, diplomas, &c., Printed and engraved. Tiffany and Company. No. 137,884; Dec. 7; v. 281; p. 199.
Cards, Filing-. Record Card Co. No. 130,874; May 4; v. 274; p. 189.
Cards for playing games, Sets of. C. Britton. No. 135,202; Sept. 28; v. 278; p. 701.
Cards, Playing. Midland Playing Card Co. No. 134,744; Sept. 14; v. 278; p. 358.
Cards, Playing-. The New York Consolidated Card Company. No. 138,079; Dec. 14; v. 281; p. 400.
Cards, Playing-. Root Playing Card Co. No. 133,027; July 6; v. 276; p. 203.
Cards, Playing-. The United States Playing Card Company. Nos. 133,070–1; July 6; v. 276; p. 205.
Cards, Playing-. W. D. Roy. No. 133,030; July 6; v. 276; p. 203.
Cards, Printed. O. E. Ole. No. 136,131; Oct. 26; v. 279; p. 722.
Carpet and rugs made of selvages. W. C. Crandall. No. 135,421; Oct. 12; v. 279; p. 342.
Carpet-sweepers. Scott-Fetzer Company. No. 131,367; May 11; v. 274; p. 401.
Carpets. Harrod's Stores, Limited. No. 132,959; July 6; v. 276; p. 201.
Carpets. Roxbury Carpet Company. No. 132,236; June 15; v. 275; p. 620.
Carpets. M. J. Whittall Associates. No. 129,933; Mar. 9; v. 272; p. 370.
Carpets and rugs formed of rags, &c. Coral Manufacturing Company. Nos. 133,392–4; July 27; v. 276; p. 768.
Cartons, boxes, shipping-envelops, &c. Hinde & Douch Paper Co. No. 130,185; Apr. 13; v. 273; p. 402.
Cartoons. W. F. Bartsch. No. 136,750; Nov. 9; v. 280; p. 377.
Cartridges, shells, caps, &c. Remington Arms Union Metallic Cartridge Co. No. 133,498; July 27; v. 276; p. 771.
Carving sets The Robeson Cutlery Co. No. 138,098; Dec. 14; v. 281; p. 400.
Casting metals, Metallic deoxidizers and scavengers for use in. Fansteel Products Company. No. 132,139; June 15; v. 275; p. 617.
Casting-rods. Shakespeare Company. No. 135,533; Oct. 12; v. 279; p. 345.
Castings. Vermilion Malleable Iron Company. No. 131,659; May 18; v. 274; p. 609.
Castings and alloys of steel and iron, Metal. Milwaukee Steel Foundry Company. Nos. 136,541–2; Nov. 2; v. 280; p. 185.
Castings and forgings. The Cleveland Brass Manufacturing Co. No. 129,135; Jan. 27; v. 270; p. 613.
Castings and forgings, Iron, brass, &c. Monarch Foundry Company. No. 133,752; Aug. 3; v. 277; p. 175.
Castings and forgings, Special steel. Bucyrus Company. No. 135,403; Oct. 12; v. 279; p. 341.
Castings and forgings, Steel. Edgewater Steel Company. No. 131,741; May 25; v. 274; p. 830.
Castings, Cast-iron. Fisk-Jencks Foundry Co. No. 138,004; Dec. 14; v. 281; p. 397.
Castings, forgings, &c., of iron and steel. Philadelphia Roll & Machine Company. No. 130,864; May 4; v. 274; p. 189.
Castings, Fusible cement for filling iron and steel. C-an-B Co. (Not Inc.) No. 136,362; Nov. 2; v. 280; p. 179.
Castings, Heat-resisting. Hiram Walker & Sons Metal Products. No. 130,590; Apr. 27; v. 273; p. 805.
Castings, Malleable. The T. H. Symington Company. No. 131,633; May 18; v. 274; p. 609.
Castings, Malleable-iron. Fort Pitt Malleable Iron Co. No. 132,942; July 6; v. 276; p. 201.
Castings, Malleable-iron. West Virginia Malleable Iron Co. No. 134,204; Aug. 17; v. 277; p. 582.
Castings, Metal. Driver-Harris Company. No. 132,667; June 29; v. 275; p. 1015.
Castings, Metal. J. W. Richardson Foundry Metals Corporation. No. 135,518; Oct. 12; v. 279; p. 345.
Castings and forgings, Iron and steel. Chain Belt Company. No. 132,109; June 15; v. 275; p. 616.
Catalogs, Style-. The Little Duchess Dress Co. No. 136,517; Nov. 2; v. 280; p. 184.
Catalogue, Annual. Julius Roehrs Co. No. 136,917; Nov. 9; v. 280; p. 382.
Catalogue, Export. United Publishers Corporation. No. 136,231; Oct. 26; v. 279; p. 725.
Catalogue known as a house organ. Mayer Brothers. No. 136,865; Nov. 9; v. 280; p. 381.
Catsup. Brooks Tomato Products Company. No. 128,946; Jan. 20; v. 270; p. 472.
Catsup, canned vegetables and fruits. Sterling Products Co. No. 130,417; Apr. 20; v. 273; p. 624.
Catsup, vinegar, coffee, &c. J. F. Halladay & Son. No. 133,992; Aug. 10; v. 277; p. 388.
Ceilings, Metal. The Berger Manufacturing Company. No. 135,604; Oct. 19; v. 279; p. 525.
Ceilings Metal. The Berger Manufacturing Company. No. 136,756; Nov. 9; v. 280; p. 377.
Celluloid frames, rims, nose-pieces, and parts for eyeglasses. Optical Products Corporation. No. 137,845; Dec. 7; v. 281; p. 197.
Cellulose compound used in preparing collodion embedding-tissues for microscopic specimens. The Will Corporation. No. 134,592; June 22; v. 275; p. 825.
Cement, Boiler-wall. M. M. Casamer. No. 136,770; Nov. 9; v. 280; p. 378.
Cement, Building-. Ultramares Corporation. No. 130,242; Apr. 13; v. 273; p. 404.
Cement-concrete blocks and slabs, cement-asbestos plates, &c. Bell's United Asbestos Co. No. 137,120; Nov. 23; v. 280; p. 790.
Cement, flooring and insulating materials for heat or cold, Arboreal healing-. F. A. Bartlett. No. 137,112; Nov. 23; v. 280; p. 789.
Cement for the construction and repair of furnaces. Laclede-Christy Clay Products Company. No. 134,707; Sept. 14; v. 278; p. 357.
Cement, lime, and concrete mixtures, Preparations useful in modifying C. Catlett. No. 135,941; Oct. 26; v. 279; p. 717.
Cement, Liquid fiber roofing-. D. Bernsteen. No. 135,396; Oct. 12; v. 279; p. 341.
Cement, Metallic. Metal Mending Company of America. No. 130,548; Apr. 27; v. 273; p. 804.
Cement or concrete floor, Material for hardening and dust-proofing. Toch Brothers. No. 135,828; Oct. 19; v. 279; p. 532.
Cement, Paste. Northwestern Chemical Co. No. 129,084; Jan. 20; v. 270; p. 474.
Cement, Portland. Alsen Cement Co. of America. No. 132,605; June 29; v. 275; p. 1013.
Cement, Portland. The Edison Portland Cement Company. No. 136,793; Nov. 9; v. 280; p. 379.
Cement, Portland. W. R. Grace & Co. No. 135,452; Oct. 12; v. 279; p. 343.
Cement, Portland. Huron Portland Cement Company. No. 136,833; Nov. 9; v. 280; p. 380.
Cement, Portland. Indiana Portland Cement Company. No. 132,177; June 15; v. 275; p. 618.

Digitized by Google

Cement, Radiator-. Perma-Loc Manufacturing Co. No. 129,825; Mar. 9; v. 272; p. 366.
Cement, Roofing-. R. Greenstein. No. 132,693; June 29; v. 275; p. 1015.
Cement stucco. Nebraska Material Company. No. 136,879; Nov. 9; v. 280; p. 381.
Cement, stucco, plaster. American Pozzolana Company. No. 130,612; May 4; v. 274; p. 181.
Cement, Wood and marble. W. Woeltje. No. 137,742; Nov. 30; v. 280; p. 1001.
Cementing composition used to join pieces of metal. Deeds & Chapin. No. 133,628; Aug. 3; v. 277; p. 171.
Cementitious preparation usable in the form of a putty. F. B. O'Brien. No. 134,259; Aug. 24; v. 277; p. 778.
Cereal and sugar syrups for soda-fountain purposes. The Nulomoline Company; No. 136,128; Oct. 26; v. 279; p. 722.
Cereal, Breakfast. L. E. Du Bois. No. 129,280; Feb. 10; v. 271; p. 355.
Cereal food. J. Graham. No. 136,015; Oct. 26; v. 279; p. 719.
Cereal food. J. R. West. No. 131,267; May 4; v. 274; p. 201.
Cereal products and a prepared cake-flour. C. A. Gambrill Manufacturing Company. No. 133,970; Aug. 10; v. 277; p. 387.
Chain repair-links. A. W. Burke. No. 130,271; Apr. 20; v. 273; p. 619.
Certain named blankets and bed-comforts. Burnham-Munger-Root Dry Goods Co. No. 132,101; June 15; v. 275; p. 615.
Chains and chain-slings. Newhall Chain Forge & Iron Co. No. 130,847; May 4; v. 274; p. 188.
Chains and swivels, Neck and watch. M. S. Rodenberg Co. No. 129,851; Mar. 9; v. 272; p. 367.
Chains and swivels, Neck and watch. M. S. Rodenberg Co. No. 130,105; Apr. 6; v. 273; p. 181.
Chains and trimmings, Watch, key, and neck. Martin-Copeland Company. No. 128,461; Jan. 6; v. 270; p. 182.
Chains, Antiskid-. National Chain Company. No. 128,801; Jan. 13; v. 270; p. 341.
Chains, bracelets, and crosses, Bead neck-. Stern Brothers & Company. No. 132,256; June 15; v. 275; p. 620.
Chains for agricultural and other machinery and apparatus. Locke Steel Chain Company. No. 132,439; June 22; v. 275; p. 820.
Chains for motor-trucks, &c., Power-driven transmission or drive. Baldwin Chain and Manufacturing Company. No. 133,210; July 20; v. 276; p. 589.
Chains, Metal links for. The Thomas Laughlin Co. No. 135,477; Oct. 12; v. 279; p. 344.
Chains to vehicle-wheels, Bars, &c., for securing antiskid-. Challoner Company. No. 129,133; Jan. 27; v. 270; p. 613.
Chair-desks. Empire Seating Company. No. 129,981; Mar. 16; v. 272; p. 539.
Chairs. New York Chair Company. No. 128,471; Jan. 6; v. 270; p. 183.
Chairs, Barbers'. Koken Barbers' Supply Company. No. 129,009; Jan. 20; v. 270; p. 474.
Chairs, &c., Camp, folding, and invalid. C. Glantz. No. 128,984; Jan. 20; v. 270; p. 478.
Chairs for soda-fountains, &c. W. B. McLean Manufacturing Company. No. 135,870; Oct. 19; v. 279; p. 536.
Chairs, Ordinary W. F. Whitney Company. No. 136,260; Oct. 26; v. 279; p. 726.
Chalk product in tablet form, Pharmaceutical. J. A. Wilding. No. 133,545; July 27; v. 276; p. 773.
Chambrays and tickings. David Schwartz Co. No. 129,868; Mar. 9; v. 272; p. 368.
Chambrays, tickings, and sateens, all in the piece goods. Grazi & Dabah. No. 137,246; Nov. 23; v. 280; p. 793.
Charcoal. R. MacKellar's Sons Co. No. 131,181; May 4; v. 274; p. 198.
Charms, pendants, &c. Miller and Hunold. No. 136,539; Nov. 2; v. 280; p. 185.
Chart, Service-record. Wheel Chart Company. No. 129,926; Mar. 9; v. 272; p. 370.
Check, Metal discount-. A. F. Winslow. No. 130,249; Apr. 13; v. 273; p. 404.
Cheese. Joseph Acherman & Co. No. 129,319; Feb. 17; v. 271; p. 507.
Cheese. A. Contri. No. 138,537; Dec. 28; v. 281; p. 785.
Cheese. W. Faehndrich. No. 130,494; Apr. 27; v. 273; p. 802.
Cheese. J. L. Kraft & Bros. Co.. No. 132,723; June 20; v. 275; p. 1016.
Cheese. J. L. Kraft & Bros. Co. No. 134,008; Aug. 10; v. 277; p. 388.
Cheese. Phenix Cheese Company. No. 136,580; Nov. 2; v. 280; p. 186.
Cheese. Portland Cheese Company. No. 137,373; Nov. 23; v. 280; p. 797.
Cheese. Roethlisberger & Co. No. 132,044; June 8; v. 275; p. 416.
Cheese. B. Westergaard & Company. No. 129,407; Feb. 17; v. 271; p. 509.
Cheese and butter. Marré & Company. No. 130,857; Apr. 20; v. 273; p. 622.
Cheese and dried sausages. The Basso Co. No. 135,909; Oct. 26; v. 279; p. 716.
Cheese, Brick. H. R. Moldenhauer. No. 135,010; Sept 21; v. 278; p. 583.
Cheese-cutters, Computing. Computing Cheese Cutter Co. No. 133,110; July 13; v. 276; p. 401.
Cheese, Limburger. Joseph Acherman & Co. No. 129,110; Jan. 27; v. 270; p. 613.
Cheese, olives, canned goods, &c. Iwan Burger, Inc. No. 131,057; May 4; v. 274; p. 195.
Cheeses. E. Galbani. No. 134,502; Sept. 7; v. 278; p. 160.
Chemical compound. R. L. Crowe. No. 138,443; Dec. 28; v. 281; p. 782.
Chemical compound. L. W. Kramer. No. 129,011; Jan. 20; v. 270; p. 474.
Chemical compounds and oil-proof enamel for concrete surfaces. Gardner-Barada Chemical Co. No. 129,984; Mar. 16; v. 272; p. 539.
Chemical compounds for increasing the efficiency of combustion of fuel. R. J. Sutton. No. 129,548; Feb. 24; v. 271; p. 681.
Chemical preparation containing the properties of a manure. Hawker & Botwood Ltd. No. 131,771; May 25; v. 274; p. 831.
Chemical preparation for the removal of metal from oxids. E. A. Abbott. No. 133,553; Aug. 3; v. 277; p. 169.
Chemical, &c., preparations. A. C. Smith. No. 136,628; Nov. 2; v. 280; p. 187.
Chemical preparations containing formaldehyde, &c. Società Industrie Chemiche Ittiolo. No. 132,813; June 29; v. 275; p. 1019.
Chemical soot-destroyer. Utility Product Co. No. 129,556; Feb. 24; v. 271; p. 681.
Chemicals. Midco Chemical Works. No. 136,727; Nov. 2; v. 280; p. 192.
Chemicals. Philip A. Hunt Company. No. 136,043; Oct. 26; v. 279; p. 720.
Chemicals. Seydel Manufacturing Company. No. 131,830; May 25; v. 274; p. 833.
Chemicals. U. S. Industrial Chemical Co. No. 129,234; Jan. 27; v. 270; p. 617.
Chemicals and chemical oils for use in the manufacture of fertilizer. Eugene Suter & Company. No. 133,189; July 13; v. 276; p. 404.
Chemicals employed in the graphic arts. National Steel & Copper Plate Co. No. 129,802; Mar. 9; v. 272; p. 366.
Chemicals for use in manufacture of leather. Cataract Chemical Company. No. 128,647; Jan. 13; v. 270; p. 337.
Cherries, maraschino style, Bottled. Evan W. Hook & Co. No. 130,319; Apr. 20; v. 273; p. 621.
Chemicals, medicines, &c. A. G. Gaba. No. 129,964; Mar. 9; v. 272; p. 371.
Chemicals, medicines, &c. Kuhlman & Chambliss Co. No. 129,013; Jan. 20; v. 270; p. 474.
Chemicals, medicines, &c. W. T. Rawleigh Company. No. 129,842; Mar. 9; v. 272; p. 367.
Chemicals, medicines, &c. E. R. Squibb & Sons. No. 129,544; Feb. 24; v. 271; p. 681.
Chemicals, medicines, &c. E. R. Squibb & Sons. No. 129,886; Mar. 9; v. 272; p. 368.
Chemicals, medicines, and pharmaceutical preparations. Società Industrie Chimiche Ittiolo. No. 133,184; July 13; v. 276; p. 403.
Chemicals, medicines, and pharmaceutical preparations. United Drug Company. No. 132,568; June 22; v. 275; p. 824.
Chemicals, Organic. Davidson Brothers. No. 135,221; Sept. 28; v. 278; p. 702.
Cherries, Chocolate-covered. Vogan Candy Company. No. 138,210; Dec. 14; v. 281; p. 407.
Cherries, Preserved. Dr. Enrico Parodi Delfino. No. 132,352; June 22; v. 275; p. 817.
Cherry phosphate, birch and root beers, &c. Giering Bottling Company. No. 131,310; May 11; v. 274; p. 400.
Chimneys, Lamp-. Krenning-Schlapp Grocer Company. No. 130,082; Apr. 6; v. 273; p. 180.
China and semiporcelain earthenware, Ironstone. J. & G. Meakin. No. 135,281; Sept. 28; v. 278; p. 708.
Chinaware, bric-a-brac, earthenware, &c. Tiffany & Company. No. 137,723; Nov. 30; v. 280; p. 1001.
Chinaware, bric-a-brac, earthenware, porcelain. Tiffany & Company. No. 135,827; Oct. 19; v. 279; p. 532.
Chocolate. Ideal Cocoa & Chocolate Co. No. 131,999; June 8; v. 275; p. 414.
Chocolate. Ideal Cocoa & Chocolate Co. No. 132,712; June 29; v. 275; p. 1016.
Chocolate. James Keiller & Son. No. 138,038; Dec. 14; v. 281; p. 398.
Chocolate. Kandykraft Korporation. No. 134,401; Aug. 31; v. 277; p. 973.
Chocolate. Norma Chocolate Company. No. 134,044; Aug. 10; v. 277; p. 389.
Chocolate. Norma Chocolate Company. No. 135,500; Oct. 12; v. 279; p. 344.
Chocolate. Suchard, S. A. No. 134,285; Aug. 24; v. 277; p. 779.
Chocolate. Vee Bee Chocolate Co. Nos. 132,849–50; June 29; v. 275; p. 1020.
Chocolate and candies. E. Greenfield's Sons. No. 131,314; May 11; v. 274; p. 400.
Chocolate and candy. Pennsylvania Chocolate Company. No. 135,185; Sept. 21; v. 278; p. 540.
Chocolate and cocoa. Stollwerck Brothers. No. 130,934; May 4; v. 274; p. 191.

Digitized by Google

Chocolate bars, Milk-. Hooton Cocoa Company. No. 132,706; June 29; v. 275; p. 1016.
Chocolate bars, Pure milk-. P. K. Condrell. No. 133,937; Aug. 10; v. 277; p. 386.
Chocolate, cocoa, powdered milk. D. Neuman. No. 130,373; Apr. 20; v. 273; p. 622.
Chocolate, Milk-. The Maurice Company. No. 130,821; May 4; v. 274; p. 188.
Chocolate packed in boxes and packages. Seggerman Bros. No. 134,084; Aug. 10; v. 277; p. 391.
Chocolate, Sweet. Boldemann Chocolate Company. No. 130,646; May 4; v. 274; p. 182.
Chocolate, Sweet. Knickerbocker Chocolate. No. 130,197; Apr. 13; v. 273; p. 402.
Chocolate with hazel-nut. Suchard, S. A. No. 138,185; Dec. 14; v. 281; p. 401.
Chocolates. D. Auerbach & Sons. No. 131,279; May 11; v. 274; p. 399.
Chocolates. D. Auerbach & Sons. No. 136,308; Nov. 2; v. 280; p. 178.
Chocolates. D. Auerbach & Sons. No. 137,932; Dec. 14; v. 281; p. 395.
Chocolates. Bertin & Stimson. No. 136,324; Nov. 2; p. 280; p. 178.
Chocolates. The Brecht Candy Company. No. 130,651; May 4; v. 274; p. 182.
Chocolates. The Brecht Candy Company. Nos. 131,053–5; May 4; v. 274; p. 194.
Chocolate. The Borden Company. Nos. 137,495–6; Nov. 23; v. 280; p. 802.
Chocolates. C. A. Crane. No. 131,729; May 25; v. 274; p. 830.
Chocolates. Flirtation Candy Co. No. 135,997; Oct. 26; v. 279; p. 718.
Chocolates. J. G. McDonald Chocolate Co. No. 128,772; Jan. 13; v. 270; p. 340.
Chocolates. The Ohio Hotel Operating Company. No. 132,765; June 29; v. 275; p. 1018.
Chocolates. Peter Cailler Kohler Swiss Chocolates Co. No. 134,098; Aug. 10; v. 277; p. 391.
Chocolates. D. A. Rand. No. 131,586; May 18; v. 274; p. 607.
Chocolates. Rosner & Kanner. No. 136,918; Nov. 9; v. 280; p. 382.
Chocolates. Shall's Inc. No. 133,033; July 6; v. 276; p. 203.
Chocolates and candies. Chéri Incorporated. No. 134,348; Aug. 31; v. 277; p. 971.
Chocolates and candies. Wallace & Co. Nos. 134,328–9; Aug. 24; v. 277; p. 781.
Chocolates and candy. The Shelby Candy and Manufacturing Company. No. 138,118; Dec. 14; v. 281; p. 401.
Chocolates and candy. Shelby Candy and Manufacturing Company. Nos. 138,510–11; Dec. 28; v. 281; p. 784.
Chocolates, bonbons, &c. Fidelity Chocolate Company. No. 128,377; Jan. 6; v. 270; p. 180.
Chocolates, bonbons, and candies. C. Scourby. No. 137,062; Nov. 16; v. 280; p. 584.
Chocolates, bonbons, and candies. C. Scourby. No. 138,341; Dec. 21; v. 281; p. 567.
Chocolates, bonbons, and candy. Page and Shaw. No. 129,522; Feb. 24; v. 271; p. 680.
Chocolates, bonbons, and other candy. Page & Shaw. No. 129,521; Feb. 24; v. 271; p. 680.
Chocolates in boxes. The Wisconsin Candy Co. No. 136,706; Nov. 2; v. 280; p. 190.
Chocolates, Package-. Vogan Candy Company. No. 138,211; Dec. 14; v. 281; p. 407.
Cholera-powder for live stock. P. Huth. No. 129,472; Feb. 24; v. 271; p. 679.
Choppers and cutlery. The Henkel-Clauss Co. No. 136,455; Nov. 2; v. 280; p. 182.
Choppers, Food-. Landers, Frary & Clark. No. 135,866; Oct. 19; v. 279; p. 535.
Chucks. The Skinner Chuck Company. No. 137,453; Nov. 23; v. 280; p. 800.
Chucks of all kinds. The Skinner Chuck Company. No. 136,190; Oct. 26; v. 279; p. 724.
Churns and parts thereof. Butter-. International Manufacturing Company of Texas. No. 131,501; May 18; v. 274; p. 604.
Cider, Champagne. Valle, Ballina y Fernandez, S. A. No. 135,097; Sept. 21; v. 278; p. 536.
Cigarette makers and tubes, Portable. Waldes & Co. No. 130,134; Apr. 6; v. 273; p. 182.
Cigarette-paper. Liggett & Myers Tobacco Company. No. p. 191.
Cigarettes. The American Tobacco Company. No. 128,284; Jan. 6; v. 270; p. 177.
Cigarettes. The American Tobacco Company. No. 128,920; Jan. 20; v. 270; p. 471.
Cigarettes. Ardath Tobacco Company. Nos. 137,536–8; Nov. 30; v. 280; p. 995.
Cigarettes. The Bloch Bros. Tobacco Co. Nos. 130,642–3; 130,796; May 4; v. 274; p. 187.
Cigarettes. British-American Tobacco Company. No. 134,603; Sept 14; v. 278; p. 854.
Cigarettes. J. Christoforides. No. 133,383; July 27; v. 276; p. 768.
Cigarettes. G. M. Dery. No. 128,362; Jan. 6; v. 270; p. 179.
Cigarettes. Emanuel & Woodward. No. 133,544; July 27; v. 276; p. 772.
Cigarettes. Frishmuth Bro. & Company. No. 133,415; July 27; v. 276; p. 768.
Cigarettes. Halle-Perris Trading Corporation. Nos. 133,420–1; July 27; v. 276; p. 769.
Cigarettes. Hills Brothers Company. No. 130,072; Apr. 6; v. 273; p. 180.
Cigarettes. Liggett & Myers Tobacco Company. No. 128,430; Jan. 6; v. 270; p. 181.
Cigarettes. Liggett & Myers Tobacco Company. No. 133,272; July 20; v. 276; p. 591.
Cigarettes. Liggett & Myers Tobacco Company. No. 133,455; July 27; v. 276; p. 770.
Cigarettes. Liggett & Myers Tobacco Company. No. 134,714; Sept. 14; v. 278; p. 857.
Cigarettes. Liggett & Myers Tobacco Company. No. 135,273; Sept. 28; v. 278; p. 703.
Cigarettes. Melikian Cigarettes, Inc. No. 135,283; Sept. 28; v. 278; p. 703.
Cigarettes. Melikian Cigarettes, Inc. No. 136,095; Oct. 26; v. 279; p. 721.
Cigarettes. Minnesota Tobacco Company. No. 133,468; July 27; v. 276; p. 770.
Cigarettes. R. D. Messayeh. No. 133,465; July 27; v. 276; p. 770.
Cigarettes. W. L. Beitler, Jr. No. 136,319; Nov. 2; v. 280; p. 178.
Cigarettes. Reed Tobacco Company. Nos. 129,057–8; Jan. 20; v. 270; p. 475.
Cigarettes. Russian Tea Room & Art Shop. Nos. 133,311–13; July 20; v. 276; p. 592.
Cigarettes. Standard Export Cigarette Corporation. No. 133,324; July 20; v. 276; p. 592
Cigarettes. Standard Tobacco Company. No. 134,819; Sept. 14; v. 278; p. 360.
Cigarettes. Tobacco Products Corporation No. 133,331; July 20; v. 276; p. 593.
Cigarettes. Tobacco Products Export Corporation. No. 133,844; Aug. 3; v. 277; p. 178.
Cigarettes. J. J. Turney. No. 130,952; May 4; v. 274; May 4; v. 274; p. 182.
Cigarettes. The United Kingdom Tobacco Co. No. 136,674; Nov. 2; v. 280; p. 189.
Cigarettes and tobacco. The American Tobacco Co. No. 128,921; Jan. 20; v. 270; p. 471.
Cigarettes and tobacco. The American Tobacco Company. No. 136,303; Nov. 2; v. 280; p. 177.
Cigarettes, cigars, &c. American Tobacco Company. No. 130,029; Apr. 6; v. 273; p. 179.
Cigarettes, cigars, pipe and chewing tobacco. Gosselin Trading Corporation. No. 133,682; Aug. 3; v. 277; p. 173.
Cigarettes, cigars, tobacco. Poland Export Corporation. No. 130,104; Apr. 6; v. 273; p. 181.
Cigarettes, little cigars, smoking-tobacco. Estate of I. B. Krinsky. No. 135,269; Sept. 28; v. 278; p. 703.
Cigarettes, tobacco. American Tobacco Company. No. 130,035; Apr. 6; v. 273; p. 179.
Cigars, J. (J.) Augenblick. No. 137,937; Dec. 14; v. 281; p. 395.
Cigars. Bramore Cigar Co. No. 136,333; Nov. 2; v. 280; p. 178.
Cigars. De Nobili Cigar Co. No. 134,625; Sept. 14; v. 278; p. 355.
Cigars. Francis H. Leggett & Co. No. 130,793; May 4; v. 274; p. 187.
Cigars. A. Garcia. No. 133,247; July 20; v. 276; p. 590.
Cigars. J. M. Goldstein. No. 136,012; Oct. 26; v. 279; p. 719.
Cigars. Harkert Cigar Co. No. 133,255; July 20; v. 276; p. 590.
Cigars. Havana Commercial Company. No. 130,070; Apr. 6; v. 273; p. 180.
Cigars. Havana Commercial Company. No. 137,622; Nov. 30; v. 280; p. 998.
Cigars. P. Hector. No. 130,184; Apr. 18; v. 273; p. 402.
Cigars. Henry Clay and Bock & Co. No. 136,373; Nov. 2; v. 280; p. 179.
Cigars. Henry Clay and Bock & Co. Nos. 137,155–6; Nov. 23; v. 280; p. 791.
Cigars. King Cigar Company. No. 136,496; Nov. 2; v. 280; p. 183.
Cigars. Kirschbaum Company, The. No. 133,269; July 20; v. 276; p. 591.
Cigars. V. Levor. No. 130,085; Apr. 6; v. 273; p. 180.
Cigars. The S. H. Lipinsky. No. 136,273; Oct. 26; v. 279; p. 727.
Cigars. A. J. Long Cigar & Grocery Co. No. 133,725; Aug. 3; v. 277; p. 174.
Cigars. Many Blanc & Co. No. 134,731; Sept. 14; v. 278; p. 858.
Cigars. Marcelino Perez & Company. No. 130,813; May 4; v. 274; p. 187.
Cigars. J. J. Mauser. No. 133,280; July 20; v. 276; p. 591.
Cigars. Perfecto Manufacturers. Nos. 133,299–300; July 20; v. 276; p. 592.
Cigars. Perfecto Manufacturers, Inc. No. 135,772; Oct. 19; v. 279; p. 531.
Cigars. Perfecto Manufacturers. No. 137,364; Nov. 23; v. 280; p. 797.
Cigars. E. Popper & Co. No. 129,051; Jan. 20; v. 270; p. 475.

Digitized by Google

Alphabetical list of trade-marks—Continued.

Cigars. Progressive Cigar Corporation of Philadelphia. No. 134,774; Sept. 14; v. 278; p. 359.
Cigars. W. P. Roberts. Nos. 133,503–4; July 27; v. 276; p. 771.
Cigars. H. H. Snoyek. No. 129,082; Jan. 20; v. 270; p. 476.
Cigars. C. J. Spietz. No. 137,458; Nov. 23; v. 280; p. 800.
Cigars. C. J. Spietz. No. 138,117; Dec. 14; v. 281; p. 401.
Cigars. C. F. Stout. No. 130,935; May 4; v. 274; p. 191.
Cigars. E. Tatom & Co. No. 128,546; Jan. 6; v. 270; p. 185.
Cigars. T. E. Taugher. No. 133,525; July 27; v. 276; p. 772.
Cigars. Utopia Cigar Company. No. 133,536; July 27; v. 276; p. 772.
Cigars. Utopia Cigar Company. No. 136,233; Oct. 26; v. 279; p. 725.
Cigars. W. L. Van Dyke. No. 138,149; Dec. 14; v. 281; p. 402.
Cigars. Walker-Matteson Company. No. 133,539; July 27; v. 276; p. 772.
Cigars. William J. Fisher & Co. No. 133,413; July 27; v. 276; p. 768.
Cigars and cheroots. M. E. Starlight. Nos. 133,830–3; Aug. 3; v. 277; p. 177.
Cigars and cigarettes. P. Elle. No. 130,709; May 4; v. 274; p. 184.
Cigars and cigarettes. W. J. Pinder. No. 130,866; May 4; v. 274; p. 189.
Cigars and cigarettes. D. S. Saqui. No. 137,756; Nov. 30; v. 280; p. 1002.
Cigars and cigarettes. W. Werner. No. 130,136; Apr. 6; v. 273; p. 182.
Cigars, cigarettes, and smoking and chewing tobacco. P. Cannizzaro & Co. No. 133,870; July 27; v. 276; p. 767.
Cigars, cigarettes, and tobacco. F. G. Gilbert. No. 130,065; Apr. 6; v. 273; p. 180.
Cigars, cigarettes, and tobacco. R. J. Seidenberg Co. No. 130,109; Apr. 6; v. 273; p. 181.
Cigars, cigarettes, and tobacco. B. Zilberstien. No. 133,551; July 27; v. 276; p. 773.
Cigars, cigarettes, cheroots, &c. D. A. Schulte. No. 133,508; July 27; v. 276; p. 771.
Cigars, cigarettes, chewing and smoking tobacco. F. A. de Pilis. No. 133,399; July 27; v. 276; p. 768.
Cigars, cigarettes, smoking-tobacco. R. & J. Hill. No. 129,000; Jan. 20; v. 270; p. 473.
Cigars, cigarettes, tobacco. L. Sherman. No. 128,516; Jan. 6; v. 270; p. 184.
Cigars, little cigars, and cigarettes. P. Lorillard Company. No. 133,489; July 27; v. 276; p. 771.
Circuit-controllers, Automatic. Clox-Lite Mfg. Company. No. 134,912; Sept. 21; v. 278; p. 530.
Claim-blanks, Shippers'. Mrs. B. Park. No. 129,822; Mar. 9; v. 272; p. 366.
Clamps, &c., used with metal-working machinery. H. Cadwallader, Jr. No. 128,950; Jan. 30; v. 270; p. 472.
Clasps or fasteners, Metal. H. A. Astlett. No. 137,540; Nov. 30; v. 280; p. 995.
Clasps, Lingerie, scarf, collar, and bib. M. & G. Novelty Company. No. 134,727; Sept. 14; v. 278; p. 358.
Clay used as a filler in the manufacture of paper, paints, &c. R. T. Vanderbilt Company. No. 135,840; Oct. 19; v. 279; p. 533.
Cleaner and polish and radiator-cleaner, Silver. A. J. Ruttenber. No. 136,176; Oct. 26; v. 279; p. 724.
Cleaner, Electric vacuum-. Air-way Company. No. 135,576; Oct. 19; v. 279; p. 525.
Cleaner for clothes, Dry. A. G. Gorden. No. 132,156; June 15; v. 275; p. 617.
Cleaner for fabrics and leather. A. Selz. No. 131,237; May 4; v. 274; p. 200.
Cleaner for fabrics and other articles, Liquid. J. C. Davis. No. 129,670; Mar. 9; v. 272; p. 362.
Cleaner for white glacé kid-leather. C. A. Zoes. No. 132,074; June 8; v. 275; p. 417.
Cleaner. Pioneer Chemical & Mfg. Co. No. 136,154; Oct. 26; v. 279; p. 723.
Cleaners and automobile spark-plugs, Electric vacuum. Larkin Co. No. 136,509; Nov. 2; v. 280; p. 184.
Cleaners and carpet-sweepers, Hand vacuum-. The Torrington Company. No. 135,575; Oct. 12; v. 279; p. 348.
Cleaners and parts thereof, Electric vacuum-. The Regina Company. No. 135,051; Sept. 21; v. 278; p. 534.
Cleaners, Electric vacuum-. American Electric Co. No. 137,758; Dec. 7; v. 281; p. 195.
Cleaners, Electric vacuum-. Eureka Vacuum Cleaner Company. No. 135,986; Oct. 26; v. 279; p. 718.
Cleaners, Electric vacuum-. The Ramey Mfg. Company. No. 135,308; Sept. 28; v. 278; p. 704.
Cleaners, Electric vacuum-. The Torrington Company. No. 134,864; Sept. 14; v. 278; p. 364.
Cleaners, sewing-machines, and dish-washers, Electric vacuum. Good Housekeeping Electric Shoppe. No. 136,439; Nov. 2; v. 280; p. 182.
Cleaners, Vacuum-. A/S Det Almindelige Handelskompagni. No. 131,078; May 4; v. 274; p. 195.
Cleaning and cleansing compounds. The Wells Manufacturing Company. No. 137,079; Nov. 16; v. 280; p. 585.
Cleaning and finishing compound or powders for painted, polished, and stone surfaces. R. T. Conlon. No. 132,119; June 15; v. 275; p. 616.
Cleaning and polishing enamaled surfaces, Liquid preparations for. V. M. McVey. No. 136,524; Nov. 2; v. 280; p. 184.
Cleaning and polishing materials for jewelry and precious-metal ware. Tiffany & Company. No. 137,882; Dec. 7; v. 281; p. 199.
Cleaning and polishing paste for automobile-bodies, &c. Simons Manufacturing Company. No. 137,701; Nov. 30; v. 280; p. 1000.
Cleaning and polishing materials for jewelry and metal ware. Tiffany & Company. No. 135,090; Sept. 21; v. 278; p. 535.
Cleaning and restoring fabrics and removing tarnish from metals, Powders for. A. Lob. No. 136,076; Oct. 26; v. 279; p. 721.
Cleaning and scouring powder. Lekko Soap Company. No. 132,437; June 22; v. 275; p. 820.
Cleaning compound. J. F. Benedict. No. 137,553; Nov. 30; v. 280; p. 996.
Cleaning compound. Fitzpatrick Bros. No. 134,858; Sept. 14; v. 278; p. 363.
Cleaning compound. E. M. Hickey. No. 135,261; Sept. 28; v. 278; p. 703.
Cleaning compound. J. J. Meyer. No. 130,090; Apr. 6; v. 273; p. 181.
Cleaning compound, Dry. Miller Chemical Co. No. 129,797; Mar. 9; v. 272; p. 366.
Cleaning compound for fabrics, glass, &c. G. W. Reinhardt Co. No. 133,497; July 27; v. 276; p. 771.
Cleaning compound for floors, furniture, &c. B. H. Chandler. No. 136,772; Nov. 9; v. 280; p. 378.
Cleaning compound for removing carbon, &c., from the hands. N. S. McIntosh. No. 131,179; May 4; v. 274; p. 198.
Cleaning compound for removing road oils and tars from autos and clothing. R. O. R. Chemical Co. No. 132,328; June 22; v. 275; p. 816.
Cleaning compound, hand soap, &c. S. W. Rapp, Jr. No. 136,907; Nov. 9; v. 280; p. 382.
Cleaning compound, Rug-. J. G. Alexanian. No. 134,334; Aug. 31; v. 277; p. 971.
Cleaning compounds. A. K. Bowman. No. 133,913; Aug. 10; v. 277; p. 385.
Cleaning compounds. Oakley Chemical Co. No. 134,754; Sept. 14; v. 278; p. 358.
Cleaning compounds. Sunbeam Products Company. No. 132,557; June 22; v. 275; p. 824.
Cleaning compounds. United Drug Company. No. 138,146; Dec. 14; v. 281; p. 402.
Cleaning compounds. Utilities Chemical Company. No. 132,268; June 15; v. 275; p. 621.
Cleaning fluid for polishing metal surfaces. J. F. Blawn. No. 131,042; May 4; v. 274; p. 194.
Cleaning leather, Liquid for. A. T. Searcy. No. 138,509; Dec. 28; v. 281; p. 784.
Cleaning liquid adapted for general use. L. A. Block. No. 133,911; Aug. 10; v. 277; p. 385.
Cleaning material for fabrics. Pyrene Manufacturing Company. No. 135,306; Sept. 28; v. 278; p. 704.
Cleaning-paste. W. B. Smythe. No. 132,050; June 8; v. 275; p. 416.
Cleaning-polish for glass, &c R. Rodriques. No. 132,504; June 22; v. 275; p. 822.
Cleaning, polishing, preserving, and finishing certain named surfaces and articles, Polish for. Everbright Manufacturing Company. No. 131,980; June 8; v. 275; p. 414.
Cleaning preparation. John Bell, Hills & Lucas. No. 132,093; June 15; v. 275; p. 615.
Cleaning preparation for articles of straw, &c. The Kleenx Company. No. 134,402; Aug. 31; v. 277; p. 973.
Cleaning preparation for automobiles, &c. W. H. Schaffer. No. 128,844; Jan. 13; v. 270; p. 343.
Cleaning preparation for varnished surfaces. M. B. Ehart. No. 129,689; Mar. 9; v. 272; p. 362.
Cleaning preparation for white shoes, clothes, &c. W. A. Shabel. No. 137,860; Dec. 7; v. 281; p. 198.
Cleaning substance. G. Wenzelman. No. 128,571; Jan. 6; v. 270; p. 186.
Cleaning substance for carpets, clothing, draperies, &c. C. Levy. No. 137,307; Nov. 23; v. 280; p. 795.
Cleanser and polish. I. W. Cox. No. 128,961; Jan. 20; v. 270; p. 472.
Cleanser, dressing, and polish, Automobile, furniture, and piano. G. W. Perkins. No. 137,365; Nov. 23; v. 280; p. 797.
Cleanser for automobile-bodies, varnished floors, &c. Earle C. Anthony, Inc. No. 137,933; Dec. 14; v. 281; p. 395.
Cleanser for fabrics. Charles McAdam Company. No. 128,437; Jan. 6; v. 270; p. 182.
Cleanser, Household. P. F. Brophy. No. 133,362; July 27; v. 276; p. 767.
Cleanser in powdered form. Universal Cleaner Co. No. 131,860; May 25; v. 274; p. 834.
Cleansing and polishing compounds. J. W. Bullen. No. 129,633; Mar. 9; v. 272; p. 367.
Cleansing compound for dishes, floors, &c. Essex Laboratories. No. 128,689; Jan. 13; v. 270; p. 338.

Digitized by Google

Alphabetical list of trade-marks—Continued.

Cleansing compound for removing grease-spots from fabrics. M. Solomon. No. 134,809; Sept. 14; v. 278; p. 360.
Cleansing compound for typewriters and other metal type, &c., Chemical. The Clarotype Company. No. 133,935; Aug. 10; v. 277; p. 386.
Cleansing compounds. Jimmy Quick Products Co. No. 129,053; Jan. 20; v. 270; p. 475.
Cleansing compounds. Master Helps Co. No. 128,452; Jan. 6; v. 270; p. 182.
Cleansing-polish. B. H. Arnheim. No. 135,076; Oct. 26; v. 279; p. 715.
Cleansing, polishing, and burnishing the surfaces of metal and glass, Compounds used for. A. W. Richards. No. 135,055; Sept. 21; v. 278; p. 534.
Cleansing preparation. Laundry Supplies Corporation. No. 131,163; May 4; v. 274; p. 198.
Cleansing preparation. Tyler Chemical Company. No. 136,671; Nov. 2; v. 280; p. 189.
Cleansing preparation, Carpet, rug, and fabric. R. Henderson. No. 137,261; Nov. 23; v. 280; p. 794.
Cleaning preparation for cleaning fabrics. S. M. Spencer. No. 131,617; May 18; v. 274; p. 608.
Cleansing preparation for rugs, silk, &c. M. Bedrosian. No. 131,960; June 8; v. 275; p. 413.
Cleansing preparation for white shoes, gloves, and belts. E. H. Johnson. No. 132,424; June 22; v. 275; p. 819.
Cleansing preparation for woodwork, metal, or clothing. J. J. & G. W. Haynes. No. 135,257; Sept. 28; v. 278; p. 703.
Cleats, Adjustable. L. E. Seddon. No. 137,441; Nov. 23; v. 280; p. 799.
Cleavers and steels and knives. American Tap and Die Co. No. 136,742; Nov. 9; v. 280; p. 377.
Clips for fountain-pens and pencils, paper-clips, &c., Pocket-. Herbert Terry & Sons. No. 132,834; June 29; v. 275; p. 1020.
Cloaks and suits, Misses' and children's. E. J. Wile & Co. No. 132,589; June 22; v. 275; p. 825.
Cloaks, suits, dress and outer skirts, Ladies'. Wilkin & Adler. No. 136,704; Nov. 2; v. 280; p. 190.
Clock and watch dials. T. Bargman. No. 133,100; July 13; v. 276; p. 401.
Clock-dial. Mayclese. No. 133,000; July 6; v. 276; p. 202.
Clocks. De Luxe Clock & Mfg. Co. No. 130,058; Apr. 6; v. 273; p. 180.
Clocks. A. C. Dittrich. No. 133,634; Aug. 3; v. 277; p. 171.
Clocks and parts thereof, Electric. Tiffany Never Wind Clock Corporation. No. 134,327; Aug. 24; v. 277; p. 781.
Clocks and watches. L. P. White. No. 130,991; May 4; v. 274; p. 193.
Closers for bottles. Sampson Appliance Corporation, The. No. 136,177; Oct. 26; v. 279; p. 724.
Closet-bowls. Chicago Pottery Company. No. 129,271; Feb. 10; v. 271; p. 855.
Closet-seats and flushing-tanks. William Heap & Sons. No. 131,994; June 8; v. 275; p. 414.
Closets, Chemical. Standard Steel Corp. No. 130,116; Apr. 6; v. 273; p. 181.
Closets, Chemical indoor. Hartman Company. No. 129,985; Mar. 16; v. 272; p. 539.
Cloth-cutters and cloth-cutting machines, Electrically-operated. F. M. Laserson. No. 132,188; June 15; v. 275; p. 618.
Cloth, Long-. R. H. Macy & Co. No. 129,779; Mar. 9; v. 272; p. 365.
Cloth made of fabric and rubber, Carriage-. United States Rubber Company. No. 137,733; Nov. 30; v. 280; p. 1001.
Cloth made of rubber, Carriage-. United States Rubber Company. Nos. 137,731–2; Nov. 30; v. 280; p. 1001.
Cloth piece goods. Johnston Dry Goods Co. No. 133,442; July 27; v. 276; p. 769.
Cloth, Shoe-. Seamans & Cobb Co. No. 132,519; June 22; v. 275; p. 822.
Cloth, Specially-treated. The Standard Textile Products Company. No. 137,477; Nov. 23; v. 280; p. 800.
Cloths and stuffs of wool, worsted, or hair. F. Rushworth. No. 128,508; Jan. 6; v. 270; p. 184.
Cloths, Pressing-. T. W. Jones. No. 130,194; Apr. 13; v. 273; p. 402.
Clothes, Men's and young men's. Morris Marans Sons. No. 133,278; July 20; v. 276; p. 591.
Clothes—viz., overalls, shirts, and pants. Cortland Overall Co. No. 137,579; Nov. 30; v. 280; p. 996.
Clothes-pressing iron, Electric-heated. F. A. Patrick & Co. No. 136,150; Oct. 26; v. 279; p. 723.
Clothes-washing machines. W. W. Allen. No. 135,578; Oct. 19; v. 279; p. 525.
Clothes-washing machines and wringers and combinations and parts. G. Wenzelmann. No. 133,868; Aug. 3; v. 277; p. 179.
Clothes, Work-. Arbuthnot-Stephenson Co. No. 137,136; Nov. 23; v. 280; p. 790.
Clothes, Work-. The H. D. Lee Mercantile Co. No. 129,176; Jan. 27; v. 270; p. 615.
Clothesline-props. S. E. Kaufman. No. 137,290; Nov. 23; v. 280; p. 795.
Clotheslines. C. C. Davis. No. 132,925; July 6; v. 275; p. 200.
Clotheslines. C. C. Davis. No. 133,627; Aug. 3; v. 277; p. 171.
Clotheslines. Krenning-Schlapp Grocer Company. No. 130,786; May 4; v. 274; p. 186.
Clothing. American Import Co. No. 130,606; May 4; v. 274; p. 181.
Clothing. American La France Fire Engine Co. No. 130,607; May 4; v. 274; p. 181.
Clothing. S. Ballin. No. 131,032; May 4; v. 274; p. 194.
Clothing. H. M. Baron. No. 137,110; Nov. 23; v. 280; p. 789.
Clothing. Beaumont Dry Goods & Notions Co. No. 135,913; Oct. 26; v. 279; p. 716.
Clothing. Bender-Zimmer Company. No. 137,121; Nov. 23; v. 280; p. 790.
Clothing. Blum Brothers. No. 129,126; Jan. 27; v. 270; p. 613.
Clothing. Blum Bros. No. 137,125; Nov. 23; v. 280; p. 790.
Clothing. Chandler & Co. No. 135,630; Oct. 19; v. 279; p. 526.
Clothing. Chipman Knitting Mills. No. 133,612; Aug. 3; v. 277; p. 171.
Clothing. Cisco, Inc. No. 133,109; July 13; v. 276; p. 401.
Clothing. A. J. Coccaro & Co. No. 131,724; May 25; v. 274; p. 830.
Clothing. Cohen, Goldman & Co. No. 135,639; Oct. 19; v. 279; p. 527.
Clothing. Deco Co. No. 135,968; Oct. 26; v. 279; p. 717.
Clothing. W. T. Dickson. No. 135,650; Oct. 19; v. 279; p. 527.
Clothing. S. O. E. Dryfoos. No. 135,653; Oct. 19; v. 279; p. 527.
Clothing. Ford & Cohen. No. 137,785; Dec. 7; v. 281; p. 196.
Clothing. The Futurist Company. No. 136,003; Oct. 26; v. 279; p. 718.
Clothing. George Spencer & Co. No. 130,580; Apr. 27; v. 273; p. 804.
Clothing. Guiterman, Rosenfeld & Company. No. 133,252; July 20; v. 276; p. 590.
Clothing. Hall, Hartwell & Co. No. 129,162; Jan. 27; v. 270; p. 614.
Clothing. Hand Knit Hosiery Co. No. 135,455; Oct. 12; v. 279; p. 343.
Clothing. Holman Manufacturing Company. No. 135,701; Oct. 19; v. 279; p. 528.
Clothing. S. Horwitz & Sons. No. 138,466; Dec. 28; v. 281; p. 782.
Clothing. James A. Hearn & Son. No. 136,828; Nov. 9; v. 280; p. 380.
Clothing. Jantzen Knitting Mills. No. 137,278; Nov. 23; v. 280; p. 794.
Clothing. Jennings Lace Works Corp. No. 134,693; Sept. 14; v. 278; p. 757.
Clothing. John Lurie, Inc. No. 137,317; Nov. 23; v. 280; p. 796.
Clothing. Julius Levy Sons Co. No. 136,071; Oct. 26; v. 279; p. 720.
Clothing. Julius Levy Sons Co. No. 136,073; Oct. 26; v. 279; p. 720.
Clothing. Knox Hat Company. No. 130,198; Apr. 13; v. 273; p. 402.
Clothing. Lady Jane Hat Shops, Inc. No. 136,063; Oct. 26; v. 279; p. 720.
Clothing, &c. The Lerner Waist Co. No. 130,340; Apr. 20; v. 273; p. 621.
Clothing. Levi Strauss & Co. No. 138,352; Dec. 21; v. 281; p. 567.
Clothing. S. S. Loeb & Co. No. 133,723; Aug. 3; v. 277; p. 174.
Clothing. M. N. Mayehoff & Co. No. 132,457; June 22; v. 275; p. 820.
Clothing. McIntyre-Burrall Company. No. 137,914; Dec. 7; v. 281; p. 201.
Clothing. Michigan Motor Garment Co. No. 132,202; June 15; v. 275; p. 619.
Clothing. J. A. Migel, Inc. No. 133,748; Aug. 3; v. 277; p. 176.
Clothing. Moe Levy & Son. No. 138,194; Dec. 14; v. 281; p. 405.
Clothing. Nichols Underwear Corporation. No. 132,466; June 22; v. 275; p. 821.
Clothing. Oppenheim, Oberndorf & Co. Nos. 135,761–3; Oct. 19; v. 279; p. 530.
Clothing. H. Ostrowsky Co. No. 133,770; Aug. 3; v. 277; p. 176.
Clothing. Pearl Knitting Co. No. 137,674; Nov. 30; v. 280; p. 999.
Clothing. L. Potter. No. 133,176; July 13; v. 276; p. 403.
Clothing. Ragan-Malone Co. No. 137,920; Dec. 7; v. 281; p. 201.
Clothing. H. Reece. No. 136,164; Oct. 26; v. 279; p. 723.
Clothing. L. F. Rubens. No. 133,805; Aug. 3; v. 277; p. 177.
Clothing. Sanger Brothers. No. 137,436; Nov. 23; v. 280; p. 799.

Digitized by Google

Alphabetical list of trade-marks—Continued.

Clothing. V. Sayer. No. 137,693; Nov. 30; v. 280; p. 1000.
Clothing. Simon Ascher & Co. No. 138,120; Dec. 14; v. 281; p. 401.
Clothing. Sionim Brothers. No. 137,705; Nov. 30; v. 280; p. 1000.
Clothing. Stern, Giles & Riemer. No. 136,202; Oct. 26; v. 279; p. 724.
Clothing. E. Stroock. No. 135,206; Oct. 26; v. 279; p. 725.
Clothing. L. F. Sturm. No. 132,552; June 22; v. 275; p. 824.
Clothing. Turner Furnishing Goods Company. Nos. 136,226–7; Oct. 26; v. 279; p. 725.
Clothing. A. R. Underdown, Jr. No. 133,851; Aug. 3; v. 277; p. 178.
Clothing. United Stay Company. No. 133,334; July 20; v. 276; p. 593.
Clothing. Varsity Underwear Company. No. 138,151; Dec. 14; v. 281; p. 402.
Clothing. J. H. Walker. Nos. 135,844–5; Oct. 19; v. 279; p. 533.
Clothing. R. Walker & Sons. No. 133,864; Aug. 3; v. 277; p. 178.
Clothing. S. Washaner. No. 137,410; Nov. 23; v. 280; p. 798.
Clothing. Weinrod & Kaempfer. No. 135,851; Oct. 19; v. 279; p. 533.
Clothing. William Bloom & Co. No. 134,598; Sept. 14; v. 278; p. 354.
Clothing. Wise Bros. No. 133,344; July 20; v. 276; p. 593.
Clothing. Wise Brothers. No. 136,992; Nov. 9; v. 280; p. 385.
Clothing. B. Wohl. No. 138,525; Dec. 28; v. 281; p. 784.
Clothing and wearing-apparel, Boys'. New York Boys' Shops. No. 133,292; July 20; v. 276; p. 591.
Clothing, Boys'. W. Filene's Sons Company. No. 129,455; Feb. 24; v. 271; p. 678.
Clothing, Boys' and children's. Elder Manufacturing Co. No. 131,098; May 4; v. 274; p. 196.
Clothing, Boys' outer. American Novelty Wash Suit Co. No. 133,205; July 20; v. 276; p. 589.
Clothing, Boys' outer. Phil. Walcoff & Co., Inc. No. 129,241; Jan. 27; v. 270; p. 617.
Clothing, Boys' outer. Phil. Walcoff & Co. No. 129,916; Mar. 9; v. 272; p. 869.
Clothing for boys and young men. Sears, Roebuck and Co. No. 133,317; July 20; v. 276; p. 592.
Clothing, Children's. Priscilla Company. No. 138,785; Aug. 3; v. 277; p. 176.
Clothing, Children's, &c. Zelenko & Moskowitz. No. 128,911; Jan. 13; v. 270; p. 345.
Clothing for infants. Hob Manufacturing Co. No. 130,515; Apr. 27; v. 273; p. 803.
Clothing for ladies, misses, and children. J. A. Migel, Inc. No. 133,283; July 20; v. 276; p. 591.
Clothing, Infants' and children's. E. J. Feisel. No. 138,448; Dec. 28; v. 281; p. 782.
Clothing, Ladies'. Lady Fair Gown Co. No. 138,283; Dec. 21; v. 281; p. 565.
Clothing, Ladies' and misses'. H. L. White. No. 137,741; Nov. 30; v. 280; p. 1001.
Clothing, Men's and boys'. B. Kuppenheimer & Co. No. 128,765; Jan. 13; v. 270; p. 340.
Clothing for men and boys. Madansky Brothers. No. 134,728; Sept. 14; v. 278; p. 358.
Clothing for men and boys. Perkins Dry Goods Company. No. 131,209; May 4; v. 274; p. 199.
Clothing for outer wear for men. P. Feinstein & Sons. No. 137,596; Nov. 30; v. 280; p. 997.
Clothing for women. Chandler & Co. No. 132,327; June 22; v. 275; p. 816.
Clothing, Men's and boys'. Shirek & Hirsch. No. 129,071; Jan. 20; v. 270; p. 476.
Clothing, Men's and children's. Walter M. Steppacher & Bro. No. 133,518; July 27; v. 276; p. 772.
Clothing, Outer. D. M. Oberman Manufacturing Company. No. 129,382; Feb. 17; v. 271; p. 509.
Clothing, Women's. Mary's, Inc. No. 130,545; Apr. 27; v. 273; p. 804.
Clothing, Women's and misses' outer. L. Levine and Sons. No. 137,306; Nov. 23; v. 280; p. 795.
Clothing, Work-. William M. Finck & Company. No. 135,992; Oct. 26; v. 279; p. 718.
Clothing, Work-. Evans Mfg. Co. No. 138,446; Dec. 28; v. 281; p. 782.
Clothing, Work-. D. M. Oberman Manufacturing Company. No. 130,558; Apr. 27; v. 273; p. 804.
Clubs and balls, Golf. (The Crawford, McGregor & Canby Company. No. 137,977; Dec. 14; v. 281; p. 396.
Coal. Bair-Collins Coal Co. No. 134,338; Aug. 31; v. 277; p. 971.
Coal. W. W. Heidelbaugh. No. 129,165; Jan. 27; v. 270; p. 614.
Coal. King Coal Company. No. 130,779; May 4; v. 274; p. 186.
Coal. William M. Lloyd Company. No. 137,313; Nov. 23; v. 280; p. 795.
Coal, Mitchell & Dillon Coal Co. No. 132,022; June 8; v. 275; p. 415.
Coal. A. S. Nowlin & Co. No. 130,851; May 4; v. 274. p. 188.
Coal. Slogo Coal Company. No. 132,049; June 8; v. 275; p. 416.
Coal. Storm King Coal Company. No. 132,822; June 29; v. 275; p. 1019.
Coal, Bituminous. The Evans Coal Company. No. 130,716; May 4; v. 274; p. 184.
Coal, Bituminous. Taylor Coal Company. No. 132,832; June 29; v. 275; p. 1020.
Coal-dust and air and delivering same to furnace, &c., Machine for mixing. Powdered Coal Engineering & Equipment Company. No. 130,002; Mar. 16; v. 272; p. 540.
Coal products. U. S. Reduction & Atomizing Co. No. 135,547; Oct. 12; v. 279; p. 346.
Coal-treating substance. Coal Conservation Company. No. 131,291; May 11; v. 274; p. 399.
Coat, Shawl-. Louis Katzman, Inc. No. 132,979; July 6; v. 276; p. 202.
Coats. P. Sangoff. No. 131,233; May 4; v. 274; p. 200.
Coats and suits for women and children. The Goldfield-Rosenfeld Co. No. 136,011; Oct. 26; v. 279; p. 719.
Coats and suits, Ladies'. Edward Kolbert & Sons. No. 138,279; Dec. 21; v. 281; p. 565.
Coats and suits, Ladies'. Ritter Brothers. No. 130,885; May 4; v. 274; p. 189.
Coats and suits, Ladies' and misses'. Linder Bros. No. 137,507; Nov. 23; v. 280; p. 804.
Coats and suits, Misses'. Schulman & Hauptman. No. 132,515; June 22; v. 275; p. 822.
Coats and vests for men, women, and children, Outer. St. Paul Garment Mfg. Co. No. 131,847; May 25; v. 274; p. 834.
Coats, Auto, rain, dress, and utility. The Miller Cloak Co. No. 129,186; Jan. 27; v. 270; p. 615.
Coats, cloaks, wraps, &c., Women's, children's, and infants'. The Salt's Textile Manufacturing Company. Nos. 137,433–4; Nov. 23; v. 280; p. 799.
Coats, cloaks, and suits, Ladies'. H. Goldberg. No. 138,248; Dec. 21; v. 281; p. 564.
Coats for young boys and girls. M. Berkwits. No. 133,353; July 27; v. 276; p. 767.
Coats, outer vests, and work-shirts for men. Johnson-Bostwick & Co. No. 133,264; July 20; v. 276; p. 591.
Coats, overcoats, raincoats, &c., Men's, women's, and children's outer. C. Kenyon Company. No. 137,293; Nov. 23; v. 280; p. 795.
Coats, pants, drawers, &c., Dress and work. The Virginia Overall & Shirt Corporation. No. 130,967; May 4; v. 274; p. 192.
Coats, Reversible leather. International Duplex Coat Co. No. 130,766; May 4; v. 274; p. 186.
Coats, skirts, blouses, &c. Girl Scouts. No. 137,614; Nov. 30; v. 280; p. 998.
Coats, suits, cloaks, &c., Ladies'. Adelberg-Feder Stores Inc. No. 129,412; Feb. 24; v. 271; p. 677.
Coats, suits, skirts, &c., Ladies', misses', and juniors.'. L. E. Rosenfeld & Co. No. 136,606; Nov. 2; v. 280; p. 187.
Coats, trousers, vests, overcoats, outerskirts, and suits for men, women, and children. The M. & M. Company. No. 137,328; Nov. 23; v. 280; p. 796.
Coats, trousers, &c., Men's. Max Spiro & Co. No. 137,473; Nov. 23; v. 276; p. 800.
Coats, vests, and suits, Men's. Rosenberg Bros. & Co. No. 135,525; Oct. 12; v. 279; p. 345.
Coats, vests, and trousers. J. M. Margolis. No. 130,814; May 4; v. 274; p. 187.
Coats, vests, &c., Men's and boys'. Putnam Overall Mfg. Co. No. 129,205; Jan. 27; v. 270; p. 616.
Coats, vests, pants, and overcoats, Men's. Rosenberg Bros. & Co. No. 130,566; Apr. 27; v. 273; p. 804.
Coats, vests, pants, and overcoats, Men's. Rosenberg Bros. & Co. Nos. 133,802–3; Aug. 3; v. 277; p. 177.
Coats, vests, pants and overcoats, Men's. Rosenberg Bros. & Co. No. 135,526; Oct. 12; v. 279; p. 345.
Coats, vests, pants, overcoats, Men's. Rosenberg Bros. & Co. Nos. 131,223–6; May 4; v. 274; p. 200.
Coats, vests, trousers, &c. Hart, Schaffner & Marx. No. 129,362; Feb. 17; v. 271; p. 508.
Coats, vests, trousers, overcoats. L. & S. Friedman. No. 135,443; Oct. 12; v. 279; p. 343.
Coats, vests, trousers, top and over coats, Men's. Z. Solomon. No. 138,348; Dec. 21; v. 281; p. 567.
Coats, waistcoats, trousers, overcoats. David Adler & Sons Co. No. 138,214; Dec. 21; v. 281; p. 563.
Coats, Women's. The Schwarz-Hexter Co. Nos. 135,807–8; Oct. 19; v. 279; p. 532.
Coats, Women's. The Schwarz-Hexter Co. No. 137,439; Nov. 23; v. 280; p. 799.
Coats, Women's, girls', and children's. Elkish & Brother. No. 138,238; Dec. 21; v. 281; p. 563.
Coating preparation for glass, &c., Transparent. A. Crooks. No. 128,350; Jan. 6; v. 270; p. 179.
Coating for preventing clouding of windows and glass wind-shields, Liquid. F. G. Fully. No. 137,609; Nov. 30; v. 280; p. 997.
Cocoa. Private Estate Coffee Company. No. 137,053; Nov. 16; v. 280; p. 584.
Cocoa and cereal beverages. S. W. Staads. No. 136,200; Oct. 26; v. 279; p. 724.

Digitized by Google

Alphabetical list of trade-marks—Continued.

Cocoa and chocolate. Stephen L. Bartlett Company. No. 128,302; Jan. 6; v. 270; p. 178.
Cocoa and chocolate. The Stollwerck Chocolate Company. Nos. 132,545–6; June 22; v. 275; p. 823.
Cocoa-butter. Ideal Cocoa & Chocolate Co. No. 138,469; Dec. 28; v. 281; p. 782.
Cocoa, icing, &c. White-Stokes Co. No. 128,576; Jan. 6; v. 270; p. 186.
Cocoa in powdered form, Instantaneous. Smith & Clark Company. No. 132,810; June 29; v. 275; p. 1019.
Cocoanut-butter. National Cocoanut Butter Company. No. 132,754; June 29; v. 275; p. 1017.
Cocoanut-butter. E. A. Stevens & Company. No. 128,582; Jan. 6; v. 270; p. 184.
Cocoanut-oil. India Refining Company. No. 131,499; May 18; v. 274; p. 604.
Cocoanut, Packaged, grated, and shredded. Franklin Baker Company. No. 132,682; June 29; v. 275; p. 1015.
Codfish. Great Eastern Fisheries Corporation. No. 128,394; Jan. 6; v. 270; p. 180.
Codfish, Boneless salt. Shattuck & Jones. No. 136,186; Oct. 26; v. 279; p. 724.
Coffee. American Standard Food Assn. No. 128,919; Jan. 20; v. 270; p. 471.
Coffee. J. Aron & Company. Nos. 132,083–4; June 15; v. 275; p. 615.
Coffee. J. Aron & Company. No. 132,289; June 22; v. 275; p. 815.
Coffee. Austin-Nichols & Company. No. 133,901; Aug. 10; v. 277; p. 385.
Coffee. Basket Stores Company. No. 128,305; Jan. 6; v. 270; p. 178.
Coffee. P. W. Browning. No. 135,926; Oct. 26; v. 279; p. 716.
Coffee. P. W. Browning. No. 136,837; Nov. 2; v. 280; p. 178.
Coffee. P. W. Browning. No. 137,133; Nov. 23; v. 280; p. 790.
Coffee. G. E. Bursley & Company. No. 136,343; Nov. 2; v. 280; p. 179.
Coffee. The Commercial Tea & Coffee Co. No. 135,957; Oct. 26; v. 279; p. 717.
Coffee. Crescent Coffee Mills. No. 128,343; Jan. 6; v. 270; p. 179.
Coffee. Crescent Coffee Mills. Nos. 128,663–4; Jan. 13; v. 270; p. 337.
Coffee. Crescent Coffee Mills. No. 128,667; Jan. 13; v. 270; p. 337.
Coffee. Crescent Coffee Mills. No. 129,345; Feb. 17; v. 271; p. 507.
Coffee. L. H. Davis. No. 132,926; July 6; v. 276; p. 200.
Coffee. Duncan Coffee Co. No. 130,703; May 4; v. 274; p. 184.
Coffee. Fargo Mercantile Co. No. 135,670; Oct. 19; v. 279; p. 527.
Coffee. S. M. Flickinger Co. No. 137,224; Nov. 23; v. 280; p. 793.
Coffee. Francis Rogers & Sons. No. 138,099; Dec. 14; v. 281; p. 400.
Coffee. Fred Wolferman Co. No. 135,562; Oct. 12; v. 279; p. 346.
Coffee. Gordon, Sewall & Co. No. 131,312; May 11; v. 274; p. 400.
Coffee. The Great Atlantic and Pacific Tea Company. No. 137,247; Nov. 23; v. 280; p. 794.
Coffee. Griggs, Cooper & Co. No. 137,250; Nov. 23; v. 280; p. 794.
Coffee. The E. C. Harley Company. Nos. 132,957–8; July 6; v. 276; p. 201.
Coffee. The E. C. Harley Company. No. 137,033; Nov. 16; v. 280; p. 583.
Coffee. The C. D. Kenny Co. No. 135,267; Sept. 28; v. 278; p. 703.
Coffee. Merchants' Coffee Co. of N. O. No. 137,658; Nov. 30; v. 280; p. 999.
Coffee. Pan American Coffee Co. No. 136,572; Nov. 2; v. 280; p. 186.
Coffee. W. S. Quinby Company. No. 129,838; Mar. 9; v. 272; p. 367.
Coffee. Rogers Company. No. 130,396; Apr. 20; v. 273; p. 623.
Coffee. M. Rosenthal. No. 135,789; Oct. 19; v. 279; p. 531.
Coffee. Ruefly Bros. No. 130,233; Apr. 13; v. 273; p. 404.
Coffee. E. F. Schnuck. No. 137,859; Dec. 7; v. 281; p. 198.
Coffee. Sehon, Stevenson and Company. No. 137,063; Nov. 16; v. 280; p. 584.
Coffee. The Shear Company. No. 137,448; Nov. 23; v. 280; p. 800.
Coffee. The W. J. Shedd Company. No. 131,836; May 25; v. 274; p. 833.
Coffee. W. A. Stewart. No. 129,547; Feb. 24; v. 271; p. 681.
Coffee. Swanson Bros. No. 133,843; Aug. 3; v. 277; p. 178.
Coffee. D. W. Thacker. No. 134,287; Aug. 24; v. 277; p. 779.
Coffee. John R. Thompson Co. No. 134,445; Aug. 31; v. 277; p. 974.
Coffee. Woolson Spice Co. No. 131,002; May 4; v. 274; p. 193.
Coffee. The Woolson Spice Company. No. 134,301; Aug. 24; v. 277; p. 779.
Coffee and chicory. De Soto Coffee Company. No. 129,348; Feb. 17; v. 271; p. 507.
Coffee and coffee in the bean, Ground. W. H. Bruning. No. 138,170; Dec. 14; v. 281; p. 403.
Coffee and mixture of coffee, chicory, and cereal. A. H. Niolon & Son. No. 136,123; Oct. 26; v. 279; p. 722.
Coffee and peanut-butter. L. & S. Products Co. No. 128,489; Jan. 6; v. 270; p. 183.
Coffee and tea. D. S. Jones. No. 134,003; Aug. 10; v. 277; p. 388.
Coffee and tea. The Royall Coffee Company. No. 134,076; Aug. 10; v. 277; p. 390.
Coffee, Blended. M. A. Reinhard. No. 131,920; May 25; v. 274; p. 836.
Coffee, canned fruits, &c. American Factories, Limited. No. 128,595; Jan. 13; v. 270; p. 335.
Coffee, canned salmon, &c. American Factories. No. 128,596; Jan. 13; v. 270; p. 335.
Coffee, Decaffeinated. Kaffee Hag Corporation. No. 136,840; Nov. 9; v. 280; p. 880.
Coffee in cans. Duncan Coffee Co. No. 137,585; Nov. 30; v. 280; p. 997.
Coffee, Roasted. Smart & Final Co. No. 130,923; May 4; v. 274; p. 191.
Coffee-roasters, Electric. Magic Coffee Machine Company. No. 135,278; Sept. 28; v. 278; p. 703.
Coffee substitute. W. W. Devore. No. 131,735; May 25; v. 274; p. 830.
Coffee substitute. R. Holman. No. 135,702; Oct. 19; v. 279; p. 528.
Coffee substitute. F. F. Shoup. No. 130,915; May 4; v. 274; p. 190.
Coffee, tea, and flavoring extracts for foods. Page-Connell Coffee Company. No. 131,360; May 11; v. 274; p. 401.
Coffee, tea, olive-oil, &c., Private Estate Coffee Company. No. 137,377; Nov. 23; v. 280; p. 797.
Coffee, tea, spices, &c. Farmer Bros. No. 131,457; May 18; v. 274; p. 603.
Coffee, tea, spices, mustard, &c. David G. Evans' Coffee Co. No. 132,935; July 6; v. 276; p. 201.
Coffins, caskets, rough boxes. S. Merritt. No. 130,830; May 4; v. 274; p. 188.
Cold, cough, &c., medicines, salve, &c. Foley & Company. No. 129,456 Feb. 24; v. 271; p. 678.
Cold-cream, hair-pomade, face-powder. G. Berman. No. 129,615; Mar. 9; v. 272; p. 360.
Cold-cream, talcum, and face powder. A. M. McGlumphy. No. 137,647; Nov. 30; v. 280; p. 999.
Collar-holder. Freeman-Daughaday Co. No. 137,229; Nov. 23; v. 280; p. 793.
Collar holders, Soft-. Eisenstadt Manufacturing Company. No. 129,690; Mar. 9; v. 272; p. 362.
Collars. M. N. Mayehoff & Co. No. 137,331; Nov. 23; v. 280; p. 796.
Collars and cuffs. Reversible. W. Wisniewski. No. 135,853; Oct. 19 v. 279; p. 533.
Collars, Coat-. D. R. Paskle & Co. No. 133,775; Aug. 3; v. 277; p. 176.
Collars, cuffs, and bosoms. Reversible Collar Company. No. 131,219; May 4; v. 274; p. 199.
Collars, cuffs, and shirts made of silk, &c. Victory Shirt Co. No. 136,241; Oct. 26; v. 279; p. 726.
Collars, cuffs, shirts, shirt-fronts. A. Rice & Company. No. 138,334; Dec. 21; v. 281; p. 566.
Collars, Men's and boys'. Rogers Peet Company. No. 138,502; Dec. 28; v. 281; p. 788.
Collars, Men's soft silk. B. Stromberg. No. 134,825; Sept. 14; v. 278; p. 361.
Collies for breeding purposes, and certain named seeds, White. M. C. Grizzelle. No. 137,251; Nov. 23; v. 280; p. 794.
Collodion. E. I. du Pont de Nemours & Company. No. 129,685; Mar. 9; v. 272; p. 362.
Colloidal metallic silver medicine. Norfolk Chemical Company. No. 138,492; Dec. 28; v. 281; p. 783.
Cologne. B. Altman & Co. No. 135,890; Oct. 26; v. 279; p. 715.
Coloring matters for foods and liquids. Lichtenstein & Company, Limited. No. 134,713; Sept. 14; v. 278; p. 357.
Colors. G. Siegle Company. No. 131,621; May 18; v. 274; p. 608.
Colors and coal-tar dyes, Anilin. John Campbell & Co. No. 128,952; Jan. 20; v. 270; p. 472.
Colors, Coal-tar. Society of Chemical Industry in Basel. No. 138,516; Dec. 28; v. 281; p. 784.
Colors, Dry. Fine Colors Company. No. 129,356; Feb. 17; v. 271; p. 508.
Colors, dry and liquid dye-colors, &c., Anilin. Lanman & Kemp. No. 131,526; May 18; v. 274; p. 605.
Colors, Food-. National Aniline & Chemical Company. No. 129,511; Feb. 24; v. 271; p. 680.
Colors, Food. National Aniline & Chemical Company. Nos. 131,349–56; May 11; v. 274; p. 401.
Colors, Food. National Aniline & Chemical Company. No. 136,548; Nov. 2; v. 280; p. 185.
Colors, Food. National Aniline & Chemical Company. No. 138,491; Dec. 28; v. 281; p. 788.

Digitized by Google

Colors for coloring inks, Crude. Nitrate Agencies Company. No. 129,812; Mar. 9; v. 272; p. 366.
Colors for the manufacture of lithographic and printing inks. Fine Colors Company. No. 129,703; Mar. 9; v. 272; p. 363.
Columns for building purposes, Metal. The Union Metal Manufacturing Company. No. 136,969; Nov. 9; v. 280; p. 384.
Combination sets of garden-tools for hand use. H. Schoener. No. 135,805; Oct. 19; v. 279; p. 532.
Combs. Samstag and Hilder Bros. No. 135,064; Sept. 21; v. 278; p. 535.
Combs and buttons. American Hard Rubber Co. Nos. 131,017–18; v. 274; p. 193.
Combs and buttons for wearing-apparel. American Hard Rubber Company. No. 130,605; May 4; v. 274; p. 181.
Combs, Celluloid. The E. A. Bliss Company. No. 135,399; Oct. 12; v. 279; p. 341.
Combustion, Devices for preventing. G. C. Lee. No. 136,512; Nov. 2; v. 280; p. 184.
Comminuting machinery, &c. Allis-Chalmers Manufacturing Company. No. 130,602; May 4; v. 274; p. 181.
Compasses, Drawing-. G. J. Hill. No. 133,701; Aug. 3; v. 277; p. 173.
Composition for coating and plating metals. Foster-Reinhold Laboratories. Nos. 129,284–5; Feb. 10; v. 271; pp. 355–6.
Compound and ointment of iodin and oil. The William S. Merrill Company. No. 131,552; May 18; v. 274; p. 606.
Compound, Digestive. Sharp & Dohme. No. 131,832; May 25; v. 274; p. 833.
Compound for external use in treating inflammation, congestion, colds, &c., Liquid. Lowman Drug Co. No. 129,492; Feb. 24; v. 271; p. 679.
Compound for treating certain named diseases and affections, Liquid. Owl Drug Co. No. 131,812; May 25; v. 274; p. 833.
Compound for use in removing paint, varnish, &c. Universal Paint Remover and Motor Cleaning Company. No. 132,267; June 15; v. 275; p. 621.
Compound for use in treating disorders of the stomach, liver, and bowels. J. H. Snyder Med. Co. No. 132,534; June 22; v. 275; p. 823.
Compound, Shortening. D. D. Metcalf. No. 129,027; Jan. 20; v. 270; p. 474.
Compounds for treating certain named diseases and affections. The Owl Drug Company. No. 132,476; June 22; v. 275; p. 821.
Computing device, Logarithmic-scale. Lewis, Connors & Company. No. 130,844; Apr. 20; v. 273; p. 621.
Concrete building material, Fabricated. Stack Construction Company. No. 136,201; Oct. 26; v. 279; p. 724.
Concrete forms and shaping devices. Metal Forms Corporation. No. 137,334; Nov. 23; v. 280; p. 796.
Concrete-hardener. R. Greenstein. No. 136,820; Nov. 9; v. 280; p. 379.
Concrete-mixers. G. C. Sheldon. No. 130,913; May 4; v. 274; p. 190.
Concrete mixing and molding machinery. Winget Limited. No. 130,998; May 4; v. 274; p. 193.
Concrete, Prepared bituminous. M. Moulton, Jr. No. 133,287; July 20; v. 276; p. 591.
Concrete slabs, Composition for making. The National Builders Company. No. 133,290; July 20; v. 276; p. 591.
Concrete-surfacing materials and floor-toppings. C. B. Kraus. No. 136,846; Nov. 9; v. 280; p. 380.
Condensers. Wireless Specialty Apparatus Company. No. 131,676; May 18; v. 274; p. 610.
Conduits and fittings. International Conduit Corporation. No. 131,500; May 18; v. 274; p. 604.
Conduits, conductors, and electrical merchandise. The Thomas & Betts Co. No. 133,191; July 13; v. 276; p. 404.
Conduits, Flexible metal. The Youngstown Sheet & Tube Co. No. 136,266; Oct. 26; v. 279; p. 726.
Conduits, Ignition-wire. E. V. Stuart. No. 133,050; July 6; v. 276; p. 204.
Cones. Southern Novelty Company. No. 138,208; Dec. 14; v. 281; p. 406.
Confection. L. P. Larson, Jr., Company. No. 130,789; May 4; v. 274; p. 187.
Confection, known as mints. L. P. Larson, Jr., Co. No. 132,009; June 8; v. 275; p. 414.
Confection, Licorice. National Licorice Company. No. 134,419; Aug. 31; v. 277; p. 973.
Confection paste. Towle Maple Products Company. No. 128,544; Jan. 6; v. 270; p. 185.
Confection with a laxative ingredient. R. C. Traster. No. 131,641; May 18; v. 274; p. 609.
Confections, Licorice. National Licorice Company. No. 136,877; Nov. 9; v. 280; p. 381.
Confectionery. All-Qual-Sweets Co. No. 131,891; May 25; v. 274; p. 835.
Confectionery. All-Qual-Sweets Co. No. 134,335; Aug. 31; v. 277; p. 971.
Confectionery. Binghamton Candy Co. No. 128,629; Jan. 13; v. 270; p. 336.
Confectionery. The Borden Company. No. 128,933; Jan. 20; v. 270; p. 471.
Confectionery. The Borden Company. No. 129,626; Mar. 9; v. 272; p. 360.
Confectionery. Borden's Condensed Milk Company. No. 133,361; July 27; v. 276; p. 767.
Confectionery. California Chocolate Shop. Nos. 133,925–6; Aug. 10; v. 277; p. 386.
Confectionery. Candy Products Corporation. No. 134,225; Aug. 24; v. 277; p. 777.
Confectionery. Marabou Trading Company. No. 137,651; Nov. 30; v. 280; p. 999.
Confectionery. Sioux Candy Company. No. 134,090; Aug. 10; v. 277; p. 891.
Confectionery, Sweetened material used as a filler and topping for. White Stokes Co. No. 137,421; Nov. 23; v. 280; p. 799.
Confectionery. Tri-City Sales Company. No. 130,129; Apr. 6; v. 273; p. 182.
Confectionery. W. H. Woodard. No. 135,170; Sept. 21; v. 278; p. 538.
Confectionery article consisting of honey nougat. W. R. Browne. No. 133,916; Apug. 10. v. 277; p. 385.
Confectionery, Certain named. Nelson-Dashfell Company. No. 132,028; June 8; v. 275; p. 415.
Confectionery—viz, chocolates. All-Qual-Sweets Co. No. 131,952; June 8; v. 275; p. 413.
Construction material. The Atlas Portland Cement Company. No. 137,765; Dec. 7; v. 281; p. 195.
Construction material. Celite Products Company. No. 133,225; July 20; v. 276; p. 589.
Construction material. The Cleveland-Akron Bag Co. No. 133,228; July 20; v. 276; p. 590.
Construction material. General Insulating & Manufacturing Company. No. 131,116; May 4; v. 274; p. 196.
Construction material. Illinois Valley Sash & Door Company. Nos. 137,801–2; Dec. 7; v. 281; p. 196.
Construction material. The Lehon Company. No. 133,,271; July 20; v. 276; p. 591.
Construction material. Zenitherm Company. No. 138,167; Dec. 14; v. 281; p. 402.
Construction material, Plastic. Sterling Products Company. No. 131,242; May 4; v. 274; p. 200.
Construction materials. Brockway-Smith Corporation. No. 130,469; Apr. 27; v. 273; p. 801.
Construction materials. Marine Decking & Supply Co. No. 128,779; Jan. 13; v. 270; p. 341.
Construction materials. Weyerhaeuser Forest Products. No. 133,341; July 20; v. 276; p. 593.
Consumption cure. D. P. Ragenovich. No. 128,493; Jan. 6; v. 270; p. 183.
Containers and sterilizers for tooth-brushes. H. R. Radin. No. 133,786; Aug. 3; v. 277; p. 176.
Conveyers. Guarantee Construction Company. No. 137,790; Dec. 7; v. 281; p. 196.
Conveying machinery, Idlers and rolls for. Link-Belt Company. No. 132,488; June 22; v. 275; p. 820.
Cookers, Animal-feed. The Hartman Company. No. 134,168; Aug. 17; v. 277; p. 581.
Cookers, Fireless. The Diller Mfg. Co. No. 132,928; July 6; v. 276; p. 200.
Cookers, Fireless. Larkin Co. No. 138,049; Dec. 14; v. 281; p. 399.
Cookers, Steam-. Toledo Cooker Company. No. 130,585; Apr. 27; v. 273; p. 804.
Cookies. Iten Biscuit Co. No. 129,006; Jan. 20; v. 270; p. 474.
Cookies. Loose-Wiles Biscuit Company. No. 129,179; Jan. 27; v. 270; p. 615.
Cookies, cakes, pastry, fruits, nuts, &c. Bake-Rite Oven Manufacturing Company. No. 137,545; Nov. 30; v. 280; p. 995.
Cooking and kitchen utensils, Aluminum. Landers, Frary & Clark. No. 132,186; June 15; v. 275; p. 618.
Cooking compound. Lever Brothers Company. No. 134,252; Aug. 24; v. 277; p. 778.
Cooking, Domestic. W. J. Jaeger. No. 131,329; May 11; v. 274; p. 400.
Cooking utensils. The Albert Sechrist Manufacturing Company. No. 135,531; Oct. 12; v. 279; p. 345.
Cooking utensils, Aluminum and iron. The Griswold Manufacturing Company. No. 130,740; May 4; v. 274; p. 185.
Copper as a metal or alloy, Hardened. Dawson Metals Inc. No. 136,396; Nov. 2; v. 280; p. 180.
Copper, brass, and bronze ingots, rods, &c. Bridgeport Brass Company. No. 130,468; Apr. 27; v. 273; p. 801.
Copper, brass, and bronze ingots, rods, &c. Bridgeport Brass Company. No. 131,056; May 4; v. 274; p. 195.
Copper, Electrolytic. Nichols Copper Co. No. 136,121; Oct. 26; v. 279; p. 722.
Copper, Electrolytic. Nichols Copper Co. No. 137,349 Nov. 23; v. 280; p. 797.
Copper wire and cable, sheet brass, and bronze, &c.. Bare. National Conduit & Cable Company. No. 133,761; Aug. 3; v. 277; p. 175.
Copy-holders. Error-No Incorporated. No. 135,665; Oct. 19; v. 279; p. 527.
Cord, Maitre-. Brownell & Company. No. 132,901; July 6; v. 276; p. 199.
Cords, Braided. Silver Lake Company. No. 138,119; Dec. 14; v. 281; p. 401.
Cords, braids, and tapes, Elastic. W. J. Adams & Co. No. 135,378; Oct. 12; v. 279; p. 341.

Digitized by Google

Cordage. American Steel Export Company. No. 131,892; May 25; v. 274; p. 835.
Cordage, Hemp. Societá Anonima Filature e Tessiture Riunite. No. 133,183; July 13; v. 276; p. 403.
Cordial for catarrh. V. F. Miller. No. 128,912; Jan. 13; v. 270; p. 345.
Cork. International Cork Company. No. 130,765; May 4; v. 274; p. 186.
Cork disks and washers for sealing bottles, jars, &c. New Process Cork Company. No. 132,029; June 8; v. 275; p. 415.
Cork disks, washers, and gaskets. International Cork Company. No. 134,978; Sept. 21; v. 278; p. 532.
Corks. Armstrong Cork Company. No. 128,290; Jan. 6; v. 270; p. 177.
Corks. Armstrong Cork Company. No. 128,612; Jan. 13; v. 270; p. 335.
Corn cure. E. Gartenlaub. No. 128,706; Jan. 13; v. 270; p. 338.
Corn, feed, and grain bins, hog-feeders, troughs, and silo-chutes. Farm Equipment Co. No. 133,649; Aug. 3; v. 277; p. 172.
Corn medicine and foot-powder. Bauer Chemical Co. Inc. No. 131,280; May 11; v. 274; p. 399.
Corn products, oatmeal, &c. H. Howson. No. 132,971; July 6; v. 276; p. 202.
Corn-remover compounds. No-Ouch Mfg. Co. No. 128,806; Jan. 13; v. 270; p. 342.
Corn solvent. Louis Drug Co. No. 128,767; Jan. 13; v. 270; p. 340.
Corn-starch. Corn Products Refining Company. No. 130,480; Apr. 27; v. 273; p. 802.
Corn-starch. Independent Starch Company. No. 129,363; Feb. 17; v. 271; p. 508.
Corn-starch. C. T. Whittier. No. 135,855; Oct. 19; v. 279; p. 533.
Cornmeal. S. C. Brinser's Sons. No. 138,534; Dec. 28; v. 281; p. 785.
Cornmeal. W. M. Cosby Flour & Grain Co. No. 134,230; Aug. 24; v. 277; p. 777.
Cornmeal. Davis and Andrews Company. No. 135,426; Oct. 12; v. 279; p. 342.
Cornmeal. W. P. Tanner-Gross & Company. No. 136,209; Oct. 26. v. 279; p. 725.
Cornmeal. George Urban Milling Company. No. 138,407; Dec. 21; v. 281; p. 572.
Cornmeal. Valdosta Mill & Elevator Co. No. 136,680; Nov. 2; v. 280; p. 189.
Cornmeal, bolted meal, buckwheat-flour, &c. Everbest Milling Corporation. No. 134,941; Sept. 21; v. 278; p. 531.
Cornets, trumpets, trombones, &c. Lyon & Healy. No. 135,736; Oct. 19; v. 279; p. 529.
Corset-covers, envelop-chemises, &c. Elm Undergarment Co. No. 132,266; June 15; v. 275; p. 621.
Corsets. American Lady Corset Company. No. 131,019; May 4; v. 274; p. 193.
Corsets. H. Cockshaw. No. 133,617; Aug. 3; v. 277; p. 171.
Corsets. International Corset Company. No. 131,142; May 4; v. 274; p. 197.
Corsets. Ivy Corset Company. No. 138,188; Dec. 14; v. 281; p. 405.
Corsets. M. B. MacDonald. No. 130,353; Apr. 20; v. 273; p. 622.
Corsets. R. H. Macy & Co. Nos. 135,276–7; Sept. 28; v. 278; p. 703.
Corsets. Madame Irene. No. 129,475; Feb. 24; v. 271; p. 679.
Corsets. Madame Irene. No. 137,649; Nov. 30; v. 280; p. 999.
Corsets. I. Newman & Sons. No. 138,197; Dec. 14; v. 281; p. 406.
Corsets. Renaissance Corset Company. No. 137,383; Nov. 23; v. 280; p. 798.
Corsets. Standard Corset Company. No. 130,413; Apr. 20; v. 273; p. 623.
Corsets. Chas. A. Stevens & Bros. No. 138,351; Dec. 21; v. 281; p. 567.
Corsets. The Van Orden Company. Nos. 133,076–8; July 6; v. 276; p. 205.
Corsets and abdominal supporters. J. C. McNeal. No. 135,007; Sept. 21; v. 278; p. 533.
Corsets and bandages. Materials used in making. McKenna & Robbins. No. 136,857; Nov. 9; v. 280; p. 380.
Corsets and belts worn as substitutes for corsets. F. G. Baugatz. No. 134,587; Sept. 14; v. 278; p. 353.
Corsets and brassières. Kops Bros. No. 130,784; May 4; v. 274; p. 186.
Corsets and brassières. Kops Bros. No. 136,503; Nov. 2; v. 280; p. 184.
Corsets, brassières, &c. Ivy Corset Company. No. 132,420; June 22; v. 275; p. 819.
Corsets, brassières, and women's underwear. Benjamin & Johnes. No. 130,463; Apr. 27; v. 273; p. 801.
Corsets, corset waists, brassières. Linehan-Conover Company. No. 131,170; May 4; v. 274; p. 198.
Corsets, corset-waists, brassières. Linehan-Conover Company. No. 138,478; Dec. 28; v. 281; p. 783.
Corsets, corsettes, corsetettes, and brassières. John Wanamaker, New York. No. 132,581; June 22; v. 275; p. 824.
Corsets, girdles, brassières. Betty Way. No. 138,365; Dec. 21; v. 281; p. 567.
Corundum in bulk. American Abrasive Company. No. 134,471; Sept. 7; v. 278; p. 159.
Cosmetics. W. A. Baker. No. 129,423; Feb. 24; v. 271; p. 677.
Cosmetics. M. V. Dunn. Nos. 129,448–51; Feb. 24; v. 271; p. 678.
Cosmetics. Philo-Derma Company. No. 131,577; May 18; v 274; p. 607.
Cosmetics. Usit Mfg. Co. of America. No. 131,382; May 11; v. 274; p. 402.
Cosmetics for the hair, perfumes, &c. Crown Perfumery Company. No. 131,731; May 25; v. 274; p. 830.
Cots and couches. Bernstein Manufacturing Company. No. 133,212; July 20; v. 276; p. 589.
Cotton and cotton and silk goods in the piece. Rossman Brothers. No. 135,325; Sept. 28; v. 278; p. 705.
Cotton and knit piece goods, muslins, ribbons, webs, and webbing, &c. Rider Wallis Dry Goods Co. No. 133,308; July 20; v. 276; p. 592.
Cotton and linen embroideries in the piece. Thos. Rowbottom Co. No. 133,789; Aug. 3; v. 277; p. 176.
Cotton and mohair piece goods. Joseph Benn & Sons. No. 128,623; Jan. 13; v. 270; p. 336.
Cotton and mohair piece goods and mixtures. Joseph Benn & Sons. No. 129,613; Mar. 9; v. 272; p. 360.
Cotton and silk piece goods. Commercial Shirt Company. No. 128,338; Jan. 6; v. 270; p. 179.
Cotton and silk piece goods. Commercial Shirt Company. No. 132,118; June 15; v. 275; p. 616.
Cotton and silk piece goods. Commercial Shirt Company. No. 134,917; Sept. 21; v. 278; p. 530.
Cotton and silk piece goods, &c. Krower-Tynberg Co. No. 136,505; Nov. 2; v. 280; p. 184.
Cotton and silk piece goods and mixtures of same and linen and artificial silk piece goods. Krower-Tynberg Co. No. 136,061; Oct. 26; v. 279; p. 720.
Cotton and woolen piece goods. R. H. Linton. No. 138,548; Dec. 28; v. 281; p. 786.
Cotton, Baled. Southwest Cotton Company. No. 130,927; May 4; v. 274; p. 191.
Cotton, Calking-. Massasoit Manufacturing Company. No. 135,747; Oct. 19 v. 279; p. 530.
Cotton cloth in the piece. Trippe, Barker & Co. No. 136,225; Oct. 26; v. 279; p. 725.
Cotton cloths in the piece. Brand & Oppenheimer. No. 138,423; Dec. 28; v. 281; p. 781.
Cotton cloths in the piece. Sylvester & Levy. No. 135,824; Oct. 19 v. 279; p. 532.
Cotton fiber for filtering purposes, Cakes of pulped. H. Clegg. No. 135,949; Oct. 26; v. 279; p. 717.
Cotton goods. Fearing, Whiton & Co. No. 130,497; Apr. 27; v. 273; p. 802.
Cotton goods. Hudson & Kohn Co. No. 129,471; Feb. 24; v. 271; p. 679.
Cotton goods in the piece. American Bleached Goods Company. No. 129,573; Mar. 9; v. 272; p. 359.
Cotton goods in the piece. Prince Lauten Co. No. 131,581; May 18; v. 274; p. 607.
Cotton linings. James H. Dunham & Co. No. 137,501; Nov. 23; v. 280; p. 803.
Cotton, Lint-. Standard Cotton Company of America. No. 133,515; July 27; v. 276; p. 772.
Cotton-mill waste. The Chester M. Goodyear Co. No. 137,243; Nov. 23; v. 280; p. 793.
Cotton piece and dress goods. Pacific Mills. No. 131,205; May 4; v. 274; p. 199.
Cotton piece and dress goods. Pacific Mills. No. 135,765; Oct. 19; v. 279; p. 530.
Cotton piece goods. American Trading Company. No. 129,580; Mar. 9; v. 272; p. 359.
Cotton piece goods. American Trading Company. Nos. 129,583–91; Mar. 9; v. 272; p. 359.
Cotton piece goods. American Trading Company. No. 129,594; Mar. 9; v. 272; p. 359.
Cotton piece goods. American Trading Company. No. 133,567; Aug. 3; v. 277; p. 169.
Cotton piece goods. Amory, Browne & Co. No. 128,605; Jan. 13; v. 270; p. 335.
Cotton piece goods. Amory Browne Export Corp'n. No. 129,419; Feb. 24; v. 271; p. 677.
Cotton piece goods. Joseph Bancroft & Sons Co. No. 129,603; Mar. 9; v. 272; p. 360.
Cotton piece goods. A. M. Barbe. No. 137,491; Nov. 23; v. 280; p. 802.
Cotton piece goods. Bonotaux Textile Co. No. 137,494; Nov. 23; v. 280; p. 802.
Cotton piece goods. Boott Mills. No. 133,912; Aug. 10; v. 277; p. 385.
Cotton piece goods. Bedford Mills. No. 129,612; Mar. 9; v. 272; p. 360.
Cotton piece goods. Boston Duck Company. No. 129,432; Feb. 24; v. 271; p. 677.
Cotton piece goods. Burton Bros. & Co. No. 129,634; Mar. 9; v 272; p. 361.
Cotton piece goods. Chas. Kohlman Co. No. 131,159; May 4; v. 274; p. 198.
Cotton piece goods. China, Japan & South America Trading Co. No. 134,907; Sept. 21; v. 278; p. 530.
Cotton piece goods. Chuck, Davis & Co. No. 132,337; June 22; v. 275; p. 817.
Cotton piece goods. Cohn Hall Marx Co. No. 131,479; May 18; v. 274; p. 603.

Digitized by Google

Alphabetical list of trade-marks—Continued.

Cotton piece goods. Cordis Mills. No. 129,505; Feb. 24; v. 271; p. 680.
Cotton piece goods. Daniel Miller Company. No. 132,205; June 15; v. 275; p. 619.
Cotton piece goods. Edwin P. Gleason's Son. No. 134,861; Sept. 14; v. 278; p. 363.
Cotton piece goods. Edwin P. Gleason's Son. No. 137,239; Nov. 23; v. 280; p. 793.
Cotton piece goods. Edwin P. Gleason's Son. No. 138,247; Dec. 21; v. 281; p. 564.
Cotton piece goods. Fearing, Whiton & Co. No. 133,128; July 13; v. 276; p. 402.
Cotton piece goods. Fordom Textile Company. No. 129,706; Mar. 9; v. 272; p. 368.
Cotton piece goods. J. W. Goddard & Sons. No. 135,682; Oct. 19; v. 279; p. 528.
Cotton piece goods. W. R. Grace & Co. No. 133,683; Aug. 3; v. 277; p. 173.
Cotton piece goods. E. Gutman & Co. No. 132,401; June 22; v. 275; p. 818.
Cotton piece goods. Haas Brothers Fabrics Corporation. No. 131,476; May 18; v. 274; p. 605.
Cotton piece goods. F. C. Harder. No. 132,163; June 15; v. 275; p. 617.
Cotton piece goods. F. C. Harder. No. 135,182; Sept. 21; v. 278; p. 540.
Cotton piece goods. Heller & Long. No. 129,743; Mar. 9; v. 272; p. 364.
Cotton piece goods. O. H. Hinck. Nos. 132,166–9; June 15; v. 275; pp. 617–18.
Cotton piece goods. Hunter Mfg. & Com. Co. No. 133,995; Aug. 10; v. 277; p. 388.
Cotton piece goods. Hyman Bauman & Co. No. 134,387; Aug. 31; v. 277; p. 972.
Cotton piece goods. Kelsey Textile Corporation. No. 133,445; July 27; v. 276; p. 769.
Cotton piece goods. A. I. Ludwig. No. 136,080; Oct. 26; v. 279; p. 721.
Cotton piece goods. Marshall Field & Company. No. 129,702; Mar. 9; v. 272; p. 363.
Cotton piece goods. Mills & Gibb Corporation. No. 137,753; Nov. 30; v. 280; p. 1003.
Cotton piece goods. Naday & Fleischer. No. 136,113; Oct. 26; v. 279; p. 722.
Cotton piece goods. Naumkeag Steam Cotton Co. No. 129,805; Mar. 9; v. 272; p. 366.
Cotton piece goods. Naumkeag Steam Cotton Co. No. 130,371; Apr. 20; v. 273; p. 622.
Cotton piece goods. Otis Co. No. 130,855; May 4; v. 274; p. 180.
Cotton piece goods. Parkhill Mfg. Co. No. 138,199; Dec. 14; v. 281; p. 406.
Cotton piece goods. Pepperell Manufacturing Company. No. 132,225; June 15; v. 275; p. 619.
Cotton piece goods. C. H. Reed. No. 134,070; Aug. 10; v. 277; p. 390.
Cotton piece goods. B. Reis. No. 129,845; Mar. 9; v. 272; p. 367.
Cotton piece goods. E. K. Rhoads. No. 138,551; Dec. 28; v. 281; p. 786.
Cotton piece goods. Rice-Stix Dry Goods Company. No. 129,846; Mar. 9; v. 272; p. 367.
Cotton piece goods. Richard Haworth and Company. No. 136,826; Nov. 9; v. 280; p. 379.
Cotton piece goods. Simon & Mendelsohn. No. 136,627; Nov. 2; v. 280; p. 187.
Cotton piece goods. Wm. Simpson, Sons & Co. No. 133,822; Aug. 3; v. 277; p. 177.
Cotton piece goods. A. Steinam Company. No. 129,891; Mar. 9; v. 272; p. 368.
Cotton piece goods. R. A. Suffern. Nos. 129,894–5; Mar. 9; v. 272; p. 369.
Cotton piece goods. R. A. Suffern. No. 130,584; Apr. 27; v. 273; p. 805.
Cotton piece goods. R. A. Suffern. No. 133,520; July 27; v. 276; p. 772.
Cotton piece goods. Swift Mfg. Co. No. 133,522; July 27; v. 276; p. 772.
Cotton piece goods. Taylor, Clapp & Beall. No. 131,851; May 25; v. 274; p. 834.
Cotton piece goods. Thorndike Company. No. 129,553; Feb. 24; v. 271; p. 681.
Cotton piece goods. Turell and Friedman. No. 129,971; Mar. 9; v. 272; p. 371.
Cotton piece goods. Wamsutta Mills. No. 129,919; Mar. 9; v. 272; p. 547.
Cotton piece goods. Warner-Godfrey Co. No. 132,270; June 15; v. 275; p. 621.
Cotton piece goods. Warner-Godfrey Co. No. 134,457; Aug. 31; v. 277; p. 974.
Cotton piece goods. Watts, Stebbins & Co. No. 131,666; May 18; v. 274; p. 610.
Cotton piece goods. Watts, Stebbins & Co. No. 134,459; Aug. 31; v. 277; p. 975.
Cotton piece goods. Watts, Stebbins & Co. No. 135,555; Oct. 12; v. 279; p. 346.
Cotton piece goods. Wilton Manufacturing Co. No. 129,936; Mar. 9; v. 272; p. 638.
Cotton piece goods. Wilton Manufacturing Co. No. 130,997; May 4; v. 274; p. 193.
Cotton piece goods. Windsor Print works. No. 136,262; Oct. 26; v. 279; p. 726.
Cotton piece goods, bunting. Harris Co. No. 129,741; Mar. 9; v. 272; p. 364.
Cotton piece goods, cotton and silk, and cotton and worsted dress goods. Wm. Simpson, Sons & Co. No. 133,511; July 27; v. 276; p. 771.
Cotton piece goods, cotton, cotton and silk, and cotton, silk and worsted piece goods. Wm. Simpson Sons & Co. No. 132,247; June 15; v. 275; p. 620.
Cotton piece goods, Mercerized. Edwin P. Gleason's Son. No. 131,930; June 1; v. 275; p. 199.
Cotton piece goods—viz., voile. Warner-Godfrey Co. No. 136,249; Oct. 26; v. 279; p. 726.
Cotton piece goods, Woven. Neuss, Hesslein & Co. No. 129,808; Mar. 9; v. 272; p. 366.
Cotton, Sewing-. De Luxe Thread Corp. No. 134,353; Aug. 31; v. 277; p. 971.
Cotton, Sewing-. De Luxe Thread Corp. No. 136,402; Nov. 2; v. 280; p. 180.
Cotton sewing-threads. Seamans & Cobb Co. No. 130,404; Apr. 20; v. 273; p. 623.
Cotton, silk, and cotton and silk piece goods. E. De Grandmont, Inc. No. 129,671; Mar. 9; v. 272; p. 362.
Cotton, silk, and silk and cotton mixture piece goods. Morcott Co. No. 131,554; May 18; v. 274; p. 606.
Cotton, silk, and wool piece goods. China, Japan & South America Trading Co. No. 130,051; Apr. 6; v. 273; p. 179.
Cotton, silk, &c., piece goods and velvets and velveteens. W. H. Childs & Son. Nos. 131,428–9; May 18; v. 274; p. 602.
Cotton skirting in the piece. Trippe, Barker & Co. No. 136,224; Oct. 26; v. 279; p. 725.
Cotton, surgical gauze, &c., Absorbent. Hygienic Fibre Company. No. 130,074; Apr. 6; v. 273; p. 180.
Cotton-waste. Northern Waste Co. No. 130,094; Apr. 6; v. 273; p. 181.
Cotton, wool, &c., piece goods. Manufacturers Textile Co. No. 131,548; May 18; v. 274; p. 606.
Cotton, wool, &c., piece goods. Ultramares Corporation. No. 129,908; Mar. 9; v. 272; p. 385.
Cotton, wool, silk, and linen piece goods. South & Central American Commercial Co. No. 128,520; Jan. 6; v. 270; p. 184.
Cotton, woolen, and silk goods, and ribbons in the piece. Hughes & Company, (Export Corporation.) No. 132,414; June 22; v. 275; p. 819.
Couches, Extension or sliding. The United States Spring Bed Company. No. 133,333; July 20; v. 276; p. 593.
Cough candy, drops, and lozenges. Aubrey-Becker Sales Co. No. 134,581; Sept. 14; v. 278; p. 353.
Cough-drops. Ed. L. Biesenbach & Co. No. 138,424; Dec. 28; v. 281; p. 781.
Cough-drops. Williams Chocolate Co. No. 129,104; Jan. 20; v. 270; p. 477.
Cough remedy and reconstructive tonic. MacMorris Drug Co. No. 128,778; Jan. 13; v. 270; p. 341.
Cough-syrup preparation. American Laboratories. No. 134,878; Sept. 21; v. 278; p. 529.
Counterboring-tools, saws, &c. National Twist Drill & Tool Co. No. 128,469; Jan. 6; v. 270; p. 182.
Couplings for machinery, pumps and compressors, &c. Nash Engineering Co. No. 136,874; Nov. 9; v. 280; p. 381.
Coupons, Saving-. A. S. J. Gammon. No. 129,718; Mar. 9; v. 272; p. 363.
Coverings for attachment to the platens or rolls of typewriters and adding-machines, Protective. C. I. Hendricks. No. 134,170; Aug. 17; v. 277; p. 581.
Covers, Slip-. L. Spiegelberg & Sons. No. 128,525; Jan. 6; v. 270; p. 184.
Crackers and cakes. H. W. Clark Biscuit Company. No. 131,935; June 1; v. 275; p. 199.
Crackers, biscuits, cakes, &c. Iten Biscuit Co. No. 137,629; Nov. 30; v. 280; p. 998.
Crackers, biscuits, cakes, &c. Keebler Weyl Baking Co. No. 135,358; Sept. 28; v. 278; p. 706.
Crackers, Graham crackers, vanilla wafers, &c., Soda-. Tennessee Biscuit Company. No. 137,881; Dec. 7; v. 281; p. 199.
Crackers or biscuits. Western Martha Washington Candies Co. No. 136,695; Nov. 2; v. 280; p. 189.
Cradles, pilot-beams, end sills, &c. Commonwealth Steel Company. No. 130,166; Apr. 13; v. 273; p. 401.
Cranes. Chesapeake Iron Works. No. 134,155; Aug. 17; v. 277; p. 581.
Cranes. Toledo Bridge & Crane Co. No. 138,206; Dec. 14; v. 281; p. 407.
Crape in the piece. H. R. Mallinson & Co. No. 135,743; Oct. 19; v. 279; p. 530.
Crape piece goods, Silk. Salembier & Clay. No. 131,944; June 1; v. 275; p. 199.
Crash goods. International Cotton Mills. No. 131,783; May 25; v. 274; p. 832.
Cravats and neckties. Feinberg & Feinberg. No. 134,645; Sept 14; v. 278; p. 355.
Cravats, Men's. Cohan, Roth & Stiffson. No. 130,011; Mar. 23; v. 272; p. 731.
Cream and lotion, hair-tonic, &c., Face. Coradine. No. 137,169; Oct 26; v. 280; p. 791.
Cream and nutmeg, Food-flavoring. The Brown Chemical Co. No. 132,900; July 6; v. 276; p. 199.

Digitized by Google

Cream and powder, &c., Face. Western Hair Goods Company. No. 128,899; Jan. 13; v. 270; p. 344.
Cream and shampoo and a preparation for cleaning the hair, &c., Face and massage. The Atlanta Barbers' Supply Co. No. 138,418; Dec. 28; v. 281; p. 781.
Cream and soap, Shaving. Lehn & Fink. No. 137,640; Nov. 30; v. 280; p. 998.
Cream, Cold-. N. Bentley. No. 129,428; Feb. 24; v. 271; p. 677.
Cream, Cold-. Lehn & Fink. No. 129,491; Feb. 24; v. 271; p. 679.
Cream, Cold-. Northam Warren Corporation. No. 134,518; Sept. 7; v. 278; p. 160.
Cream, Cold-. F. S. Parker. No. 131,571; May 18; v. 274; p. 607
Cream, Cold-. Velvoto Company. No. 131,658; May 18; v. 274; p. 609.
Cream, Complexion-. T. Noonan & Sons Company. No. 133,478; July 27; v. 276; p. 770.
Cream, Evaporated. Rico Milk Products Company. No. 138,335; Dec. 21; v. 281; p. 566.
Cream, Face-. Co-Operative Drug Company. No. 135,962; Oct. 26; v. 279; p. 717.
Cream, face, talcum, and tooth powders, Toilet. F. H. Young. Nos. 131,681-2; May 18; v. 274; p. 610.
Cream for the skin. Queisser & Co. No. 132,494; June 22; v. 275; p. 822.
Cream for the skin, Toilet. Lapeyre Brothers. No. 134,407; Aug. 31; v. 277; p. 973.
Cream for the throat, neck, and bust. A. W. Earley. No. 129,452; Feb. 24; v. 271; p. 678.
Cream, Liquid face-. The Skowbo Co. No. 131,615; May 18; v. 274; p. 608.
Cream-of-tartar compound. Caverly-Plumer Company. No. 132,323; June 22; v. 275; p. 816.
Cream or salve for congestion and inflammation. J. Berry. No. 128,626; v. 270; p. 336.
Cream, Rubefacient and anodyne. The E. L. Patch Co. No. 135,297; Sept. 28; v. 278; p. 704.
Cream-separators. The Equitable Cream Separator Co. No. 133,645; Aug. 3; v. 277; p. 172.
Cream separators and centrifugal machinery. The Sharples Separator Co. No. 137,861; Dec. 7; v. 281; p. 198.
Cream, Shaving-. F. De Palma. No. 134,628; Sept. 14; v. 278; p. 355.
Cream, Shaving-. Ezonall Products Company. No. 129,699; Mar. 9; v. 272; p. 868.
Cream, Skin-. Lamar, Taylor & Riley Drug Co. No. 133,716; Aug. 3; v. 277; p. 174.
Cream substitute. J. Roche. No. 128,504; Jan. 6; v. 270; p. 184.
Cream, Toilet. B. E. Lapeyre. No. 133,155; July 13; v. 276; p. 402.
Cream, Toilet. F. N. Lewis. No. 136,514; Nov. 2; v. 280; p. 184.
Cream-whip. A. W. Bull. No. 137,134; Nov. 23; v. 280; p. 790.
Creams and face powders. B. L. Barber. No. 128,616; Jan. 13; v. 270; p. 336.
Creams and paste for the teeth. Queisser & Co. No. 132,493; June 22; v. 275; p. 822.
Creams. Face-. Partola Distributing Company. No. 132,774; June 29; v. 275; p. 1018.
Creams, Face-. Plexo Preparations. No. 135,573; Oct. 12; v. 279; p. 347.
Creams, depilatory, Vanishing and face. Foster Laboratory. No. 129,712; Mar. 9; v. 272; p. 863.
Creams, hair-tonics, &c., Almond and honey. A. J. Gannon. No. 132,686; June 29; v. 275; p. 1015.
Creams, hair-tonics, and shampoos, Cold-. W. Kahn. No. 132,426; June 22; v. 275; p. 819.
Creams, Massage and vanishing. C. Spear. No. 129,543; Feb. 24; v. 271 p. 681.
Creams, powders, perfumes, toilet waters. The Boyd Manufacturing Company. No. 136,761; Nov. 9; v. 280; p. 378.
Creams, Shaving-. De Luxe Brush Company. No. 135,647; Oct. 19; v. 279; p. 527.
Crepe-de-chine piece goods, Silk-filled. Nathan and Cohen Co. No. 134,418; Aug. 31; v. 277; p. 973.
Cribs and kitchen-tables. Standard Woodwork Co. No. 136,647; Nov. 2; v. 280; p. 188.
Crockery, earthenware, porcelain. A/S. Herman A. Kähler. No. 129,007; Jan. 20; v. 270; p. 474.
Crucible and fire-brick coating compound. Non-Metallic Flux Company. No. 132,761; June 29; v. 275; p. 1017.
Crucibles. Vesuvius Crucible Company. No. 128,558; Jan. 6; v. 270; p. 185.
Crushing and pulverizing ores, &c., machinery for. K-B Pulverizer Co. No. 137,291; Nov. 23; v. 280; p. 795.
Crushing, cutting, mixing, &c., machinery. Paul O. Abbe Inc. Nos. 137,905-6; Dec. 7; v. 281; p. 200.
Cuff-links. McRae & Keeler. No. 131,798; May 25; v. 274; p. 832.
Cultivators. C. S. McCarthy, Jr. No. 138,730; Aug. 3; v. 277; p. 174.
Cultivators and separate parts for same. International Harvester Company. No. 136,047; Oct. 26; v. 279; p. 720.
Cultivators and separate parts thereof. International Harvester Company. No. 138,032; Dec. 14; v. 281; p. 398.
Cultivators, planters, &c. Harriman Manufacturing Company. No. 131,318; May 11; v. 274; p. 400.
Culture of *Bacillus Bulgaricus* and milk fermented with same. Knudsen Laboratory. No. 128,420; Jan. 6; v. 270; p. 181.
Culture of nitrogen-fixing bacteria, Fertilizing. Pacific Nitrosoil Company. No. 131,813; May 25; v. 274; p. 833.
Cups, saucers, plates, food-dishes, China. The Limoges China Company. No. 135,731; Oct. 19; v. 279; p. 529.
Curtain-stretchers and curtain-stretcher pins, Fixtures for. J. C. Schmidt. No. 138,110; Dec. 14; v. 281; p. 400.
Curtain-windows for vehicle and similar curtains. A. S. Campbell Company. No. 131,965; June 8; v. 275; p. 413.
Cushions, Furniture-. S. Karpen & Bro. No. 133,266; July 20; v. 276; p. 591.
Custard-powder, sponge-cake flour, &c. A. S. Price & Co. No. 137,848; Dec. 7; v. 281; p. 198.
Cutlery. Dwight Divine & Sons. No. 130,706; May 4; v. 274; p. 150.
Cutlery. Huth & Co. No. 130,759; May 4; v. 274; p. 186.
Cutlery. C. F. Maus. Nos. 134,182-3; Aug. 17; v. 277; p. 582.
Cutlery and dies for engraving stationery, &c. Tiffany & Company. No. 134,196; Aug. 17; v. 277; p. 582.
Cutlery and dies for engraving stationery. Tiffany & Company. No. 136,664; Nov. 2; v. 280; p. 188.
Cutlery and machinery. Simmons Hardware Company. No. 132,246; June 15; v. 275; p. 620.
Cutlery, machinery, &c. B. F. Avery & Sons. No. 137,104; Nov. 23; v. 280; p. 789.
Cutlery, machinery, &c. John Kenyon & Co. (Sheffield). No. 137,809; Dec. 7; v. 281; p. 196.
Cutlery, machinery, &c. John Kenyon & Co. (Sheffield). No. 137,812; Dec. 7; v. 281; p. 196.
Cutlery, machinery, &c. John Kenyon & Co. (Sheffield). No. 137,814; Dec. 7; v. 281; p. 197.
Cutlery, machinery, &c. John Kenyon & Co. (Sheffield.) No. 138,040; Dec. 14; v. 281; p. 398.
Cutlery, machinery, and tools and parts thereof. John W. Bolton and Sons. No. 131,710; May 25; v. 274; p. 829.
Cutlery, machinery, and tools, and parts thereof. Chicago Pneumatic Tool Company. No. 133,108; July 13; v. 276; p. 401.
Cutlery, machinery, and tools, and parts thereof. Ingersoll-Rand Company. No. 133,147; July 13; v. 276; p. 402.
Cutlery, machinery, and tools, and parts thereof. John Kenyon & Co. (Sheffield.) No. 133,267; July 20; v. 276; p. 591.
Cutlery, machinery, and tools, and parts thereof. National Equipment Company. No. 133,169; July 13; v. 276; p. 408.
Cutlery, machinery, tools. Aktiebolaget Ingeniörsfirman G. A. Lindstedt & Co. No. 134,149; Aug. 17; v. 277; p. 581.
Cutlery, machines, and tools. M. Wardlow. No. 137,900; Dec. 7; v. 281; p. 199.
Cutlery—viz., razors. Geneva Cutlery Corporation. No. 128,388; Jan. 6; v. 270; p. 180.
Cutlery, razors, &c. Pocket-. Union Cutlery Co. No. 130,954; May 4; v. 274; p. 191.
Cutlery, razors, shears, and butcher-knives, Pocket-. Union Cutlery Co. No. 131,648; May 18; v. 274; p. 609.
Cutlery, table-forks, &c. E. James. No. 138,034; Dec. 14; v. 281; p. 398.
Cutting-tools for metal-working machines. The Bullard Machine Tool Co. No. 137,961; Dec. 14; v. 281; p. 396.
Cycle-handle-bar grips. Essex Rubber Company. No. 135,235; Sept. 28; v. 278; p. 702.
Cylinder-reboring tools and kits. Universal Tool Co. No. 129,236; Jan. 27; v. 270; p. 617.
Dairy products. Associated Dairymen of Calif. No. 133,900; Aug. 10; v. 277; p. 385.
Dairy ration. Penn Grains and Feed Company. No. 134,863; Sept. 14; v. 278; p. 363.
Dairy rations, horse feed, and scratch-grains. The Beacon Feed Company. No. 137,015; Nov. 16; v. 280; p. 583.
Dandruff-remover. Gro-Mor Chemical Co. No. 132,694; June 29; v. 275; p. 1015.
Decarbonizer. Moton Company. No. 129,380; Feb. 17; v. 271; p. 508.
Decarbonizer for cylinders of automobile-engines. Bert Platt & Co. No. 133,782; Aug. 3; v. 277; p. 176.
Demagnetizing apparatus or devices. Electric Brazing and Welding Machine Co. No. 130,491; Apr. 27; v. 273; p. 802.
Dental burs. Ransom & Randolph Company. No. 137,084; Nov. 16; v. 280; p. 586.
Dental casting-machines, &c. Gardner Bros. No. 128,979; Jan. 20; v. 270; p. 473.
Dental crowns. D. H. Taomas. No. 129,899; Mar. 9; v. 272; p. 369.
Dental dam, surgeons' gloves, &c. United States Rubber Company. No. 133,072; July 6; v. 276; p. 205.
Dental goods. The S. S. White Dental Manufacturing Company. No. 138,523; Dec. 28; v. 281; p. 784.

Digitized by Google

Alphabetical list of trade-marks—Continued.

Dental inlays and bridgework, Alloy for metal for. M. F. Patterson Dental Supply Company. No. 130,095; Apr. 6; v. 273; p. 181.
Dental, medical, and surgical appliances. The Celluloid Company. No. 137,143; Nov. 23; v. 280; p. 790.
Dental, medical, and surgical appliances. C. Dewitt Lukens Surgical Manufacturing Co. No. 133,158; July 13; v. 276; p. 403.
Dental, medical, and surgical appliances. A. E. Fraass. No. 137,787; Dec. 7; v. 281; p. 196.
Dental, medical, and surgical appliances. United Drug Company. No. 133,068; July 6; v. 276; p. 205.
Dental medicine. G. Chisholm. No. 129,956; March 9; v. 272; p. 370.
Dental paste. C. G. King & Co. No. 137,038; Nov. 16; v. 280; p. 583.
Dental plaster. S. J. Spence. No. 136,196; Oct. 26; v. 279; p. 724.
Dental pliers, &c. The Cleveland Dental Manufacturing Company. No. 134,614; Sept. 14; v. 278; p. 354.
Dental pliers and forceps. Utica Drop Forging & Tool Company. No. 133,075; July 6; v. 276; p. 205.
Dental tools. W. A. Kelsey. No. 136,495; Nov. 2; v. 280; p. 183.
Dentifrice. The Forsyth Dental Infirmary for Children. No. 134,947; Sept. 21; v. 278; p. 531.
Dentifrice. Grand Union Tea Co. No. 133,684; Aug. 3; v. 277; p. 173.
Dentifrice. J. E. Hawley. No. 132,409; June 22; v. 275; p. 819.
Dentifrices. The Penslar Company. No. 133,777; Aug. 3; v. 277; p. 176.
Dentifrice. T. Yoshitake. No. 129,948; Mar. 9; v. 272; p. 370.
Dentifrice and antiseptic deodorants. M. E. Sullivan. No. 132,828; June 29; v. 275; p. 1020.
Deodorant. J. Ogilvie. No. 129,815; Mar. 9; v. 272; p. 366.
Deodorants. V. Vivaudou. No. 131,662; May 18; v. 274; p. 610.
Deodorant. V. Vivaudou. No. 132,571; June 22; v. 275; p. 824.
Deodorant and antiseptic powders. Miami Chemical Co. No. 132,459; June 22; v. 275; p. 820.
Deodorant cream and powder. Deodoral Company. No. 129,673; Mar. 9; v. 272; p. 362.
Deodorant, insecticide, and roach-powder. W. Kendorski. No. 134,699; Sept. 14; v. 278; p. 357.
Deodorants and preparations for relief of excessive perspiration. C. B. Imrie. No. 134,689; Sept. 14; v. 278; p. 356.
Deodorising devices. U. S. Sanitary Specialties Corporation. No. 136,679; Nov. 2; v. 280; p. 189.
Deodorising powders. T. H. Miller. No. 129,504; Feb. 24; v. 271; p. 680.
Depilatories. Oneida Corporation. No. 132,471; June 22; v. 275; p. 821.
Derricks, Portable hoisting-. John F. Byers Machine Company. No. 130,161; Apr. 13; v. 273; p. 401.
Desk sets, Metal. K. and O. Co. No. 133,043; Dec. 14; v. 281; p. 398.
Dessert mixture. Flavored pudding-. Bakers Supply Company. No. 137,107; Nov. 23; v. 280; p. 789.
Desserts, Table-. The Berdan Company. No. 135,603; Oct. 19; v. 279; p. 255.
Detergent and scouring powder. Western Chemical Company. No. 132,069; June 8; v. 275; p. 416.
Dextrin, maltose, &c., Manufactured product composed of. Mead Johnson & Co. Nos. 136,483–4; Nov. 2; v. 280; p. 183.
Diamonds, jewelry, &c. Square Deal Miller, Inc. No. 136,199; Oct. 26; v. 279; p. 724.
Diaper-supporters. G. R. Bonebright. No. 131,043; May 4, v. 274; p. 194.
Diapers. Sears, Roebuck and Co. No. 136,622; Nov. 2; v. 280; p. 187.
Dice, dominoes, &c. Piroxloid Products Corporation. No. 134,764; Sept. 14; v. 278; p. 359.
Die-heads, collapsible taps, threading, and screw machines, Automatic. The Eastern Machine Screw Corporation. No. 134,165; Aug. 17; v. 277; p. 581.
Diestocks, hand pipe-cutters, &c. Borden Company. No. 131,286; May 11; v. 274; p. 399.
Digestants and medicinal preparations for dyspepsia, &c. Bristol-Myers Company. No. 132,808; June 22; v. 275; p. 816.
Digester-tankage, Stock food. Standard By-Products Co. No. 133,045; July 6; v. 276; p. 204.
Digitalis extract. Merck & Co. No. 138,484; Dec. 28; v. 281; p. 783.
Dimension-gages and attachments therefor. Pratt & Whitney Company. No. 130,870; May 4; v. 274; p. 189.
Directories. J. A. Macdonell. No. 138,058; Dec. 14; v. 281; p. 399.
Directories of stores and shops. C. S. Rindsfoos. No. 133,502; July 27; v. 276; p. 771.
Directory. M. Lazier. No. 135,727; Oct. 19; v. 279; p. 529.
Directory, Buyer's. Textile Publishing Company. No. 136,962; Nov. 9; v. 280; p. 384.
Dish-washing and sewing machines. Blue Bird Manufacturing Company. No. 131,413; May 18; v. 274; p. 601.
Dish-washing and metal-parts-washing machines. Bromley Mereles Mfg. Co. No. 134,207; Aug. 17; v. 277; p. 582.
Dish-washing machines. Henry Giessel Co. No. 130,304; Apr. 20; v. 273; p. 620.
Dish-washing machines and parts thereof, Electric. Walcott Manufacturing Company. No. 131,887; May 25; v. 274; p. 835.
Dishes made from wood used as containers for merchandise. Northern Woodenware Company. No. 136,126; Oct. 26; v. 279; p. 722.
Dishes, Wood and paper. Escanaba Manufacturing Company. No. 137,998; Dec. 14; v. 281; p. 397.
Disinfectant. J. W. Bullen. Nos. 128,947–8; Jan. 20; v. 270; p. 472.
Disinfectant and germicide preparations. The Eli Lilly & Company. No. 131,452; May 18; v. 274; p. 603.
Disinfectant, deodorizer, &c. F. D. Fenner. No. 138,449; Dec. 28; v. 281; p. 782.
Disinfectant, deodorizer, and insecticide. Colonial Chemical Corporation. No. 136,381; Nov. 2; v. 280; p. 180.
Disinfectant, Pine-oil. The Sherwin-Williams Co. No. 132,806; June 29; v. 275; p. 1019.
Disinfectants. F. Sanford. No. 129,066; Jan. 20; v. 270; p. 475.
Disinfectants. The Sanitary Products Corporation. No. 136,179; Oct. 26; v. 279; p. 724.
Disinfectants. The Sanitary Products Corporation. No. 136,613; Nov. 2; v. 280; p. 187.
Disinfectants, antiseptics, germicides. Society of Chemical Industry in Basle. No. 129,541; Feb. 24; v. 271; p. 681.
Disinfectants, insecticides, and germicides. Rochester Germicide Company. No. 134,581; Sept. 7; v. 278; p. 160.
Disinfecting compounds. J. W. Bullen. No. 129,434; Feb. 24; v. 271; p. 677.
Disinfecting fluids. Milton Mfg. Company. No. 129,379; Feb. 17; v. 271; p. 508.
Doll-buggies. C. M. Farrer. No. 132,938; July 6; v. 276; p. 201.
Doll, Walking. "Babs" Manufacturing Corporation. No. 130,631; May 4; v. 274; p. 182.
Dolls. S. Adler. No. 130,038; Apr. 6; v. 273; p. 179.
Dolls. L. C. Brintnall. No. 130,652; May 4; v. 274; p. 182.
Dolls. The Faultless Rubber Company. No. 135,439; Oct. 12; v. 279; p. 343.
Dolls. Federal Doll Manufacturing Co. No. 137,594; Nov. 30; v. 280; p. 997.
Dolls. C. A. Goldsmith. No. 128,891; Jan. 6; v. 270; p. 180.
Dolls. M. M. Graham. No. 134,748; Sept. 14; v. 278; p. 358.
Dolls. Hawkins and Stubblefield. No. 136,028; Oct. 26; v. 279; p. 719.
Dolls. Josephine Janes Co. No. 135,711; Oct. 19; v. 279; p. 529.
Dolls. J. M. Lockwood, Jr. No. 130,089; Apr. 6; v. 273; p. 181.
Dolls. M. M. Meldram. No. 135,282; Sept. 28; v. 278; p. 703.
Dolls. New Toy Co. No. 130,015; Mar. 23; v. 272; p. 731.
Dolls. New Toy Co. No. 133,173; July 13; v. 276; p. 403.
Dolls. Notaseme Hosiery Company. No. 134,753; Sept. 14; v. 278; p. 358.
Dolls. Pacific Novelty Company. No. 130,857; May 4; v. 274; p. 189.
Dolls. G. Pfeffer. No. 133,018; July 6; v. 276; p. 203.
Dolls. Republic Doll & Toy Corporation. No. 128,499; Jan. 6; v. 270; p. 183.
Dolls. E. Shaver. No. 133,039; July 6; v. 276; p. 204.
Dolls. E. Shaver. No. 133,181; July 13; v. 276; p. 403.
Dolls. H. O. Shults. No. 129,072; Jan. 20; v. 270; p. 476.
Dolls and table-favors. George Borgfeldt & Co. No. 130,465; Apr. 27; v. 273; p. 801.
Dolls and toy animals. U. S. Toy & Novelty Co. No. 130,132; Apr. 6; v. 273; p. 182.
Dolls and toys. S. I. Rothschild. No. 135,326; Sept. 28; v. 278; p. 705.
Dolls, figure toys, rattles, &c. Toy Tinkers. No. 135,346; Sept. 28; v. 278; p. 705.
Dolls, Walking. H. H. Coleman. No. 135,640; Oct. 19; v. 279; p. 527.
Dough balling and proofing machine, &c. Thomson Machine Company. No. 129,230; Jan. 27; v. 270; p. 616.
Dough-mixers. The East Iron & Machine Co. No. 129,151; Jan. 27; v. 270; p. 614.
Doughnut-machines. Baum & Schoel. No. 131,409; May 18; v. 274; p. 601.
Doughnuts. Fleischmann's Vienna Model Bakery. No. 128,380; Jan. 6; v. 270; p. 180.
Doughnuts. The Kelley-Robinson Corporation. No. 134,005; Aug. 10; v. 277; p. 388.
Doughnuts. S. G. Leoffler, Jr. No. 132,988; July 6; v. 276; p. 202.
Doughnuts and cakes. E. Braun. No. 133,914; Aug. 10; v. 277; p. 385.
Doughnuts and cookies. Porterfield Baking Company. No. 134,426; Aug. 31; v. 277; p. 974.

Digitized by Google

Draperies and decorative fabrics. Marshall Field & Company. No. 133,279; July 20; v. 276; p. 591.
Drawers, bloomers, corset-covers, &c., Women's. Doernberg & Stein. No. 129,351; Feb. 17; v. 271; p. 508.
Drawings or pictures, Comic. International Feature Service. Nos. 133,437–8; July 27; v. 276; p. 769.
Drawing. Outfits for teaching and practice of. H. C. Mitchell. No. 136,870; Nov. 9; v. 280; p. 381.
Dress and white goods, sheetings. Havens & Geddes Company. No. 129,742; Mar. 9; v. 272; p. 364.
Dress-fasteners. Ultramares Corporation. No. 130,241; Apr. 13; v. 273; p. 404.
Dress foundations and linings. H. Freeland. No. 137,606; Nov. 30; v. 280; p. 997.
Dress-shields. E. N. Gaillard. No. 128,704; Jan. 13; v. 270; p. 338.
Dress-shields, Women's. Brooklyn Shield & Rubber Co. No. 128,644; Jan. 13; v. 270; p. 336.
Dresses. The American Beauty Dress Mfg. Co. No. 136,293; Nov. 2; v. 280; p. 177.
Dresses. The Estelle Company. No. 130,715; May 4; v. 274; p. 184.
Dresses. Langfelder & Shrier. No. 133,270; July 20; v. 276; p. 591.
Dresses. L. Levy. No. 131,167; May 4; v. 274; p. 198.
Dresses. H. J. Linsk. No. 137,820; Dec. 7; v. 281; p. 197.
Dresses. I. Mittelman & Co. No. 133,286; July 20; v. 276; p. 591.
Dresses. O'Gorman, Wade & Powers Co. No. 137,355; Nov. 23; v. 280; p. 797.
Dresses. Sure Fit Dress Co. No. 136,657; Nov. 2; v. 280; p. 188.
Dresses. Todd, Kay, and Mondsheim. No. 136,220; Oct 26; v. 279; p. 725.
Dresses and aprons for women and children. Cooper, Coate & Casey Dry Goods Co. No. 137,168; Nov. 23; v. 280; p. 791.
Dresses and aprons, One-piece. C. R. Schmick. No. 130,571; Apr. 27; v. 273; p. 804.
Dresses and bath-robes, nurses' and maids' uniforms, Women's and misses' washable. Biberman Brothers. No. 129,329; Feb. 17; v. 271; p. 507.
Dresses and coats, Ladies'. Louis Katzman, Inc. No. 138,271; Dec. 21; v. 281; p. 564.
Dresses and costumes. Wiesen & Goldstein, Inc. No. 137,901; Dec. 7; v. 281; p. 199.
Dresses and dress-aprons. J. H. C. Petersen's Sons Company. No. 128,482; Jan. 6; v. 270; p. 183.
Dresses and middy-blouses. Rice-Stix Dry Goods Company. No. 133,796; Aug. 3; v. 277; p. 176.
Dresses and rompers, Girls' cotton wash-. C. M. Hunt. No. 135,264; Sept. 28; v. 278; p. 703.
Dresses and skirts. The Friedman-Haas Co. No. 133,246; July 20; v. 276; p. 590.
Dresses, bath-robes, and dressing-sacks, House and porch. Samuel Cohen & Sons. No. 138,230; Dec. 21; v. 281; p. 563.
Dresses, Children's. W. E. Graves. No. 134,667; Sept. 14; v. 278; p. 356.
Dresses, Children's. Kellner Bros. No. 128,747; Jan. 13; v. 270; p. 340.
Dresses, Children's. The Little Goddess Dress Co. No. 134,012; Aug. 10; v. 277; p. 388.
Dresses, Children's. Ritzwoller & Co. No. 134,783; Sept. 14; v. 278; p. 359.
Dresses, coats, &c., Women's. Isidore Rabinowitz Apparel Co. No. 129,054; Jan. 20; v. 270; p. 475.
Dresses, gertrudes, nighties, &c. Baby's Boudoir. No. 129,422; Feb. 24; v. 271; p. 677.
Dresses, &c., House and street. Newman, Marcus & Torchia. No. 129,512; Feb. 24; v. 271; p. 680.
Dresses, House or apron. Sterling Manufacturing Company. No. 133,046; July 6; v. 276; p. 204.
Dresses, Infants' and children's. Hurwitz Brothers. No. 138,261; Dec. 21; v. 281; p. 564.
Dresses, Infants' and children's. A. Millman. No. 130,834; May 4; v. 274; p. 188.
Dresses, Ladies' and misses'. Crown Embroidery Works. No. 133,624; Aug. 3; v. 277; p. 171.
Dresses, Ladies' and misses'. Mannie Solomon Company. No. 133,043; July 6; v. 276; p. 204.
Dresses, skirts, coats, and suits, Ladies'. Economy Manufacturing Company. No. 135,178; Sept. 21; v. 278; p. 539.
Dresses, suits, and wraps, Ladies'. M. Weiss. No. 136,688; Nov. 2; v. 280; p. 189.
Dresses, Women's. Moshontz Bros. & Co. No. 128,796; Jan. 13; v. 270; p. 341.
Dresses, Women's and children's. Eiseman Bros. Mfg. Co. No. 137,211; Nov. 23; v. 280; p. 792.
Dresses, Women's, misses', and children's. R. H. Macy & Co. No. 133,275; July 20; v. 276; p. 591.
Dressing and dye combination for automobile-tops. Woodtite Laboratories. No. 129,942; Mar. 9; v. 272; p. 370.
Dressing for brake-linings and the like. George E. Calhoun. No. 133,923; Aug. 10; v. 277; p. 386.
Dressing for fabrics and leather. Motor Car Supplies Manufacturing Company. No. 133,473; July 27; v. 276; p. 770.
Dressings, &c. E-Jay-R-Mfg. Co. No. 136,408; Nov. 2; v. 280; p. 187.
Dressings, olivenaise, &c., Russian and salad. S. Mervis. No. 137,834; Dec. 7; v. 281; p. 197.
Dressings, Table-. G. Grietens. No. 137,249; Nov. 23; v. 280; p. 794.
Dried commodities: Apples, apricots, peaches, &c., soup-vegetables, &c. Caladero Products Company. No. 136,767; Nov. 9; v. 280; p. 378.
Driers, filters, and separators and parts thereof, Centrifugal. S. S. Hepworth Company. No. 133,259; July 20; v. 276; p. 590.
Drying liquid composition in the nature of lacquer or paint. Rust-Knot Mfg. Co., No. 132,237; June 15; v. 275; p. 620.
Drying machinery for the manufacture of clay and ceramic products. Philadelphia Drying Machinery Company. No. 131,361; May 11; v. 274; p. 401.
Drying-machines, Electrical lavatory. Groton Electrical Devices, Inc. No. 130,309; Apr. 20; v. 273; p. 620.
Drying-machines, Electrical lavatory. Groton Electrical Devices. No. 135,252; Sept. 28; v. 278; p. 703.
Drying-machines, Electrical lavatory. Groton Electrical Devices, Inc. No. 138,252; Dec. 21; v. 281; p. 564.
Drill-chucks. Eastern Tube & Tool Company. No. 135,658; Oct. 19; v. 279; p. 527.
Drill-sleeves and drill-sockets. William Brewster Company. No. 137,128; Nov. 23; v. 280; p. 790.
Drills. Detroit Twist Drill Co. No. 131,443; May 18; v. 274; p. 602.
Drills and shirtings. William Schall & Co. No. 133,084; July 6; v. 276; p. 203.
Drills, bits, and reamers, Boring. Cleveland Twist Drill Co. No. 137,973; Dec. 14; v. 281; p. 396.
Drills, braces, planes, &c. Consolidated Tool Works. No. 136,783; Nov. 9; v. 280; p. 378.
Drills, Colored. American Trading Company. No. 129,582; Mar. 9; v. 272; p. 359.
Drills, Core-. Ingersoll-Rand Company. No. 128,467; Jan. 6; v. 270; p. 181.
Drills, grinders, &c., Electric track, spindle, and hammer. Chicago Pneumatic Tool Company. No. 131,065; May 4; v. 274; p. 195.
Drills in the piece, Cotton. Rice Stix Dry Goods Company. No. 131,221; May 4; v. 274; p. 200.
Drills, screwdrivers, and valve-grinders, Electric. Black & Decker Manufacturing Company. No. 138,171; Dec. 14; v. 281; p. 403.
Drills, Steel globules used as the cutting medium with core-. Ingersoll-Rand Company. No. 136,477; Nov. 2; v. 280; p. 183.
Drills, twills, and sheeting, Unbleached, dyed, and printed. M. Lowenstein & Sons. No. 133,727; Aug. 8; v. 277; p. 174.
Drilling-machines, Fluid-pressure-operated. Ingersoll-Rand Company. No. 131,328; May 11; v. 274; p. 400.
Drink-mixing machines. Kwikmix Manufacturing Co. No. 133,715; Aug. 3; v. 277; p. 174.
Drink, Non-alcoholic soft. Lyster Chemical Company. No. 136,083; Oct. 26; v. 279; p. 721.
Drink, Soft. F. & M. Schaefer Brewing Co. No. 132,513; June 22; v. 275; p. 822.
Drink, Soft. F. & M. Schaefer Brewing Co. No. 128,514; Jan. 6; v. 270; p. 184.
Drinks, Soft. John Graf Co. No. 128,986; Jan. 20; v. 270; p. 473.
Drinking-fountains and parts. Eastern Fountain Co. No. 130,708; May 4; v. 274; p. 184.
Drop-forged parts. The Duff Manufacturing Company. No. 131,302; May 11; v. 274; p. 399.
Duck, Oiled. Armstrong Cork Company. No. 128,924; Jan. 20; v. 270; p. 471.
Dye and dressing, Auto-top. The Waterproofings Manufacturing Co. No. 132,582; June 22; v. 275; p. 825.
Dye, Hat-. Aladdin Products Company. No. 136,288; Nov. 2; v. 280; p. 177.
Dye, Leather-shoe. L. Mandel. No. 138,482; Dec. 28; v. 281; p. 783.
Dye, Liquid hat-. L. F. Christman. No. 129,274; Feb. 10; v. 271; p. 355.
Dye preparation for shoes, &c. E-Jay-R-Mfg. Co. No. 138,445; Dec. 28; v. 281; p. 782.
Dyes. American Aniline Products. No. 131,395; May 18; v. 274; p. 601.
Dyes. Dugas-Hundley Corporation. No. 128,678; Jan. 13; v. 270; p. 338.
Dyes. Essex Chemical Works. No. 128,688; Jan. 13; v. 270; p. 338.
Dyes. W. R. Grace & Company. No. 128,716; Jan. 13; v. 270; p. 339.
Dyes. W. R. Grace & Co. No. 129,463; Feb. 24; v. 271; p. 678.
Dyes. Hydra Specialties Company. No. 138,186; Dec. 14; v. 281; p. 405.
Dyes, &c., Anilin. United States Color and Chemical Company. No. 131,651; May 18; v. 274; p. 609.
Dyes combined with soap. Sunbeam Chemical Company. Nos. 132,553–6; June 22; v. 275; p. 824.
Dyes in soap form. Crescent City Dye Sales Co. No. 138,233; Dec. 21; v. 281; p. 563.
Dyes in soap form. J. S. Singer. No. 131,614; May 18; v. 274; p. 608.
Dyes. Lamie Chemical Company. No. 131,335; May 11; v. 274; p. 400.
Dyes. North American Dye Corporation. No. 129,999; Mar. 16; v. 272; p. 540.

Digitized by Google

Alphabetical list of trade-marks—Continued.

Dyes. Palatine Aniline & Chemical Corporation. No. 128,478; Jan. 6; v. 270; p. 183.
Dyes. Palatine Aniline & Chemical Corporation. No. 137,672; Nov. 30; v. 280; p. 999.
Dyes. Palatine Aniline & Chemical Corporation. No. 137,681; Nov. 30; v. 280; p. 1000.
Dyes. Ultramares Corporation. No. 129,907; Mar. 9; v. 272; p. 385.
Dyes and boot and shoe powder. John C. Statfort & Sons. No. 136,643; Nov. 2; v. 280; p. 188.
Dyes and dyestuffs. J. S. Young & Company. No. 128,907; Jan. 13; v. 270; p. 345.
Dyes combined with soap. C. S. Robison. No. 128,503; Jan. 6; v. 270; p. 184.
Dyes for leather goods. Albany Shoe Repairing Company. No. 128,278; Jan. 6; v. 270; p. 177.
Dyes, Fur-. Gaskill Chemical Corporation. No. 128,707; Jan. 13; v. 270; p. 338.
Dyes, Soap. Lever Brothers Company. No. 128,429; Jan. 6; v. 270; p. 181.
Dyestuffs. Essex Aniline Works. No. 131,455; May 18; v. 274; p. 603.
Dyestuffs. R. L. Fuller & Co. No. 132,684; June 29; v. 275; p. 1015.
Dyestuffs. The Grasselli Chemical Co. No. 134,666; Sept. 14; v. 278; p. 356.
Dyestuffs. Jennings & Company. No. 134,983; Sept. 21; v. 278; p. 532.
Dyestuffs. National Aniline & Chemical Company. Nos. 138,293–320; Dec. 21; v. 281; pp. 565–6.
Dyestuffs. Sonn Brothers Company. No. 134,541; Sept. 7; v. 278; p. 161.
Dyestuffs. Sonn Brothers Company. Nos. 134,811–6; Sept. 14; v. 278; p. 360.
Dyestuffs and chemicals. H. A. Metz. No. 131,553; May 18; v. 274; p. 606.
Dyestuffs and food colors. Kunhardt & Co. No. 129,486; Feb. 24; v. 271; p. 679.
Dynamos and motors. Fairbanks, Morse & Co. No. 138,002; Dec. 14; v. 281; p. 397.
Dynamos, motors, and electrically-driven tools. James Clark Jr. Electric Co. No. 137,571; Nov. 30; v. 280; p. 996.
Earthworking implements. Dunham Company. No. 133,402; July 27; v. 276; p. 768.
Echinacea Angustifolia, Concentrated form of. William S. Merrell Company. No. 128,784; Jan. 13; v. 270; p. 341.
Edge-tools—viz., razors. A. H. Bryant. No. 130,661; May 4; v. 274; p. 183.
Edgings, Woven. R. Zinn. No. 131,275; May 4; v. 274; p. 201.
Educational appliance. Marcus Lucius Quinn Conservatory of Music. No. 135,307; Sept. 28; v. 278; p. 704.
Effervescent salt combined with fruit derivatives. Golden Seal Laboratories. No. 128,713; Jan. 13; v. 270; p. 339.
Egg cartons or cases. J. C. Voorhorst. No. 130,970; May 4; v. 274; p. 192.
Egg-cases, egg-case and cushion fillers, &c. Indiana Board & Filler Company. No. 130,761; May 4; v. 274; p. 186.
Egg-powder and egg-substitute powder. Eg-Ste-Tut Mfg. Co. No. 131,979; June 8; v. 275; p. 414.
Egg-preserver, Chemical. A. W. Chappell. No. 135,942; Oct. 26; v. 279; p. 717.
Egg-preserving preparation. D. D. Smith. No. 129,081; Jan. 20; v. 270; p. 476.
Egg-substitute powder. W. R. Hollingshead Company. No. 130,318; Apr. 20; v. 273; p. 621.
Eggs. Debow & Co. No. 135,222; Sept. 28; v. 278; p. 702.
Eggs. The Fairmont Creamery Company. No. 131,305; May 11; v. 274; p. 400.
Eggs. Goodman & Beer Company. No. 128,714; Jan. 13; v. 270; p. 339.
Eggs. Kendal & Slusser. No. 132,428; June 22; v. 275; p. 819.
Eggs. John Morrell & Co. No. 130,835; May 4; v. 274; p. 188.
Eggs. X. Renaker. No. 131,218; May 4; v. 274; p. 199.
Eggs. F. W. Spellmeyer. Nos. 136,194–5; Oct. 26; v. 279; p. 724.
Eggs for hatching and poultry. E. N. Lemon. No. 134,009; Aug. 10; v. 277; p. 388.
Eggs, Fresh. Tilden Produce Co. No. 134,546; Sept. 7; v. 278; p. 161.
Eggs in powdered form. Empire Bakers Specialty Co. No. 132,672; June 29; v. 275; p. 1015.
Eggs, poultry, and butter. J. Lynard. No. 130,801; May 4; v. 274; p. 187.
Eggs subjected to a preservative process. Mutual Creamery Company. No. 134,257; Aug. 24; v. 277; p. 778.
Eggs, Tonic for increasing the production and fertility of. Wight Company. No. 132,864; June 29; v. 275; p. 1021.
Elastic web. W. Preston & Son. No. 129,834; Mar. 9; v. 272; p. 367.
Elastics in the piece, Woven. Rice-Stix Dry Goods Company. No. 131,592; May 18; v. 274; p. 607.
Elbows, stovepipe, gas, coal, wood, and oil stoves, &c. Simmons Hardware Company. No. 138,402; Dec. 21; v. 281; p. 571.
Electric accumulators or secondary batteries. H. Leitner and W. H. Exley. No. 132,987; July 6; v. 276; p. 202.
Electric apparatus. Pittsburgh Transformer Company. No. 136,728; Nov. 2; v. 280; p. 192.
Electric appliances and lamps. Chicago Electric Manufacturing Co. No. 136,370; Nov. 2; v. 280; p. 179.
Electric conduits, lighting and power fixtures. A. T. Sampson. No. 131,604; May 18; v. 274; p. 608.
Electric current for therapeutic purposes, Apparatus for generating, &c. McIntosh Battery and Optical Co. No. 130,805; May 4; v. 274; p. 187.
Electric generators and parts thereof, Magneto. American Bosch Magneto Corporation. No. 131,015; May 4; v. 274; p. 193.
Electric heating apparatus, &c. National Electrical Supply Company. No. 136,115; Oct. 26; v. 279; p. 722.
Electric knife and safety-switches and panel-boards. Trumbull-Vanderpoel Electric Mfg. Co. No. 131,859; May 25; v. 274; p. 834.
Electric light and power plants, equipment, and parts. Electric Auto-Lite Corporation. No. 133,404; July 27; v. 276; p. 768.
Electric light and power plants, Unitary. The Matthews Company. No. 138,063; Dec. 14; v. 281; p. 399.
Electric light and power units. Plix Light Company. No. 136,155; Oct. 26; v. 275; p. 723.
Electric light and power units, Motor-driven. Plix Light Company. No. 135,044; Sept. 21; v. 278; p. 534.
Electric-light-fixture parts. Phoenix Light Company. No. 134,762; Sept. 14; v. 278; p. 359.
Electric-light fixtures. St. Louis Brass Manufacturing Company. No. 138,339; Dec. 21; v. 281; p. 566.
Electric-light fixtures, Metal connections for. F. D. Parmenter. No. 129,042; Jan. 20; v. 270; p. 475.
Electric-light plants for isolated or farm use, Unitary. Perfection Storage Battery Co. Nos. 135,300–1; Sept. 28; v. 278; p. 704.
Electric lighting and wiring fixtures. Harvey Hubbell, Incorporated. No. 130,746; May 4; v. 274; p. 185.
Electric lighting and wiring fixtures. Seidler-Miner Company. No. 132,241; June 15; v. 275; p. 620.
Electric-lighting fixtures. The Art Metal Manufacturing Company. No. 132,615; June 29; v. 275; p. 1013.
Electric-lighting fixtures. St. Louis Brass Mfg. Co. Nos. 133,839–40; Aug. 3; v. 277; p. 178.
Electric-lighting fixtures and electric lamps. Edward Miller & Co. No. 135,014; Sept. 21; v. 278; p. 533.
Electric-lighting fixtures, Ornamental art. Lincoln Manufacturing Company. No. 135,002; Sept. 21; v. 278; p. 533.
Electric-lighting plants. Beaudette & Graham Engineering Co. No. 128,620; Jan. 13; v. 270; p. 336.
Electric-lighting plants. Black Swan Company. No. 131,412; May 18; v. 274; p. 601.
Electric-lighting plants. Black Swan Company. No. 131,709; May 25; v. 274; p. 829.
Electric-lighting plants and parts thereof, Unitary. H. M. Whitman. No. 135,359; Sept. 28; v. 278; p. 706.
Electric-lighting plants, electric-storage-battery locomotives, &c., Isolated. Allied Machinery Company of America. No. 132,873; July 6; v. 276; p. 199.
Electric-lighting plants for farms. Drury Engineering Company. No. 133,636; Aug. 3; v. 277; p. 171.
Electric meters. National Carbon Company. No. 137,045; Nov. 16; v. 280; p. 584.
Electric motors. Persons Electric Co. No. 138,326; Dec. 21; v. 281; p. 566.
Electric motors. The Sunlight Electrical Manufacturing Co. No. 137,486; Nov. 23; v. 280; p. 801.
Electric motors and generators and parts thereof. E. R. Hickey. No. 138,019; Dec. 14; v. 281; p. 398.
Electric motors and parts thereof, &c. The Van Dorn Electric Tool Company. No. 136,681; Nov. 2; v. 280; p. 189.
Electric motors, motor-frames and parts. Domestic Electric Company. No. 132,131; June 15; v. 275; p. 616.
Electric panel-board. Metropolitan Electric Mfg. Co. No. 128,785; Jan. 13; v. 270; p. 341.
Electric power-generating and lighting plants. Marmon Chicago Company. No. 130,827; May 4; v. 274; p. 188.
Electric plants, Unitary. The Matthews Engineering Co. No. 132,998; July 6; v. 276; p. 202.
Electric power-generating and lighting plants, Isolated. Universal Battery Company. No. 130,960; May 4; v. 274; p. 192.
Electric switches, Thermostatically-operated. American Fire Prevention Bureau. No. 131,397; May 18; v. 274; p. 601.
Electric warming-pads. Scientific Products Company. No. 130,909; May 4; v. 274; p. 190.
Electric wire. Atlantic Insulated Wire & Cable Company. No. 130,629; May 4; v. 274; p. 182.
Electrical accumulators. C. H. Worsnop. No. 133,878; Aug. 3; v. 277; p. 179.
Electrical apparatus. The Adams-Bagnall Electric Co. No. 136,282; Nov. 2; v. 280; p. 177.
Electrical apparatus. The Adams & Westlake Company. No. 131,393; May 18; v. 274; p. 601.
Electrical apparatus. Atwater Kent Manufacturing Company. No. 136,747; Nov. 9; v. 280; p. 377.
Electrical apparatus. P. Cass. No. 135,625; Oct. 19; v. 279; p. 526.
Electrical apparatus. The A. C. Gilbert Company. No. 137,237; Nov. 23; v. 280; p. 793.
Electrical apparatus. Mica Condenser Company Ltd. No. 136,102; Oct. 26; v. 279; p. 721.

Digitized by Google

Electrical apparatus and supplies. American Steel Export Company. No. 130,614; May 4; v. 274; p. 181.
Electrical apparatus and supplies. Electric Controller & Manufacturing Company. No. 131,099; May 4; v. 274; p. 196.
Electrical apparatus, machines, and supplies. American Hard Rubber Company. No. 133,892; Aug. 10; v. 277; p. 385.
Electrical apparatus, machines, and supplies. Cherry Tree Machine Company. No. 133,107; July 6; v. 276; p. 401.
Electrical apparatus, machines, and supplies. W. R. Cox. Nos. 133,939–40; Aug. 10; v. 277; p. 386.
Electrical apparatus, machines, and supplies. J. E. Dockendorff & Co. No. 133,117; July 13; v. 276; p. 401.
Electrical apparatus, machines, and supplies. Scintilla. No. 132,240; June 15; v. 275; p. 620.
Electrical apparatus, machines, and supplies. Sunnyhome Electric Company. No. 132,259; June 15; v. 275; p. 620.
Electrical appliances. National Clutch Company. No. 130,367; Apr. 20; v. 273; p. 622.
Electrical appliances. Redmond Chemical Products Co. No. 138,097; Dec. 14; v. 281; p. 400.
Electrical appliances. Wagner Electric Manufacturing Company. No. 136,245; Oct. 26; v. 279; p. 726.
Electrical fittings. The Sun Electrical Company. No. 136,207; Oct. 26; v. 279; p. 725.
Electrical flash-lights. General Illuminating Co. No. 130,728; May 4; v. 274; p. 185.
Electrical goods. "Bestov" Manufacturing Co. No. 134,594; Sept. 14; v. 278; p. 354.
Electrical goods. Driver-Harris Company. No. 131,738; May 25; v. 274; p. 830.
Electrical goods, dry cells, &c. National Carbon Company. No 135,757; Oct. 19; v. 279; p. 530.
Electrical heating appliances and parts. American Electrical Heater Co. No. 137,088; Nov. 23; v. 280; p. 789.
Electrical intensifiers for spark-plugs. B. Pace. No. 128,812; Jan. 13; v. 270; p. 342.
Electrode-pads. McIntosh Battery & Optical Co. No. 130,806; May 4; v. 274; p. 187.
Electrical supplies. J. E. Dockendorff & Co. Nos. 133,118–9; July 13; v. 276; p. 401.
Electrical testing devices. The John Hugo Mfg. Co. No. 137,271; Nov. 23; v. 280; p. 794.
Electrical transformers. Pittsburgh Transformer Company. No. 138,406; Dec. 21; v. 281; p. 571.
Electrical transformers. The States Company. No. 134,821; Sept. 14; v. 278; p. 361.
Electrical wire and fuses. J. H. Faw, Inc. No. 130,496; Apr. 27; v. 273; p. 802.
Electrically-driven apparatus. Landers, Frary & Clark. No. 128,757; Jan. 13; v. 270; p. 340.
Electrically-generated units. General Motors Corporation. No. 128,710; Jan. 13; v. 270; p. 338.
Electro-therapeutical instruments. H. A. Mackie. No. 135,739; Oct. 19; v. 279; p. 530.
Electrodes, Flux or covered. Gensonite Welding Electrode Co. No. 131,903; May 25; v. 274; p. 836.
Electrodes, High-potential-electricity-arrester. F. R. Parker. No. 133,016; July 6; v. 276; p. 203.
Electrolyte in electrical accumulators, Chemical preparation used as an. C. H. Worsnop. No. 133,877; Aug. 3; v. 277; p. 179.
Electromedical switchboard for electric-bath use. McIntosh Battery & Optical Co. No. 132,996; July 6; v. 276; p. 202.
Electrotherapeutic apparatus for generating high-frequency currents. Contra-Pole Electric Company. No. 130,053; Apr. 6; v. 273; p. 180.
Elevators, Freight and passenger. Westbrook Elevator Mfg. Co. No. 137,416; Nov. 23; v. 280; p. 799.
Elixir. The Eli Lilly and Company. No. 138,237; Dec. 21; v. 281; p. 562.
Embalming fluid. Embalmers' Supply Co. No. 128,871; Jan. 6; v. 270; p. 180.
Embalming fluids. Bellevue Laboratories. No. 136,267; Oct. 26; v. 279; p. 727.
Embalming preparations. M. J. Hyland. No. 131,325; May 11; v. 274; p. 400.
Embossing composition. F. Malchow. No. 134,021; Aug. 10; v. 277; p. 389.
Embroideries in the piece. M. Steinberg. No. 135,538; Oct. 12; v. 279; p. 346.
Embroidering-machines. A. Balinky. No. 128,298; Jan. 6; v. 270; p. 177.
Embroidery wool, wool threads, and threads made of linen, cotton, metal, or silk. C. R. Meissner Co. No. 134,739; Sept. 14; v. 278; p. 358.
Emery and corundum for abrasive and polishing purposes. Lockhart Corundum & Lens Company. No. 128,432; Jan. 6; v. 270; p. 181.
Emollients for the preservation of motion-picture films, mica, &c. Werner-Film-Protector Manufacturing Company. No. 129,925; Mar. 9; v. 272; p. 370.
Emulsion of milk, cream, &c. Machinery for effecting. Union Steam Pump Company. No. 131,249; May 8; v. 274; p. 200.
Enamel ware. Columbian Enameling & Stamping Co. No. 134,309; Aug. 24; v. 277; p. 781.
Enamel metalware. Porcelain Enameling Association of America. No. 129,305; Feb. 10; v. 271; p. 356.
Enameled metal ware. National Enameling & Stamping Co. No. 129,193; Jan. 27; v. 270; p. 615.
Enameled steelware. Cleveland Metal Products Company. No. 129,136; Jan. 27; v. 270; p. 613.
Enameled ware. Simmons Hardware Company. No. 129,309; Feb. 10; v. 271; p. 356.
Enameled ware, Steel. The Jacob J. Vollrath Mfg. Co. No. 134,198; Aug. 17; v. 277; p. 582.
Engagement and wedding rings. C. A. Kline. No. 138,278; Dec. 21; v. 281; p. 565.
Engine-governor. Duplex Engine-Governor Company. No. 128,970; Jan. 20; v. 270; p. 472.
Engine reverse-gear, Steam-. American Locomotive Company. No. 131,278; May 11; v. 274; p. 399.
Engine-stands, portable cranes, &c. United Engine & Manufacturing Co. No. 130,957; May 4; v. 274; p. 192.
Engine stop mechanism. Falls Machine Company. No. 130,495; Apr. 27; v. 273; p. 802.
Engines, Additional air-preheaters for internal-combustion. J. R. Wright. No. 135,858; Oct. 19; v. 279; p. 533.
Engines and compressed-air motors. Handley Page Limited. No. 131,569; May 18; v. 274; p. 606.
Engines and baling-presses, Internal-explosive. Star Pea Huller Company. No. 137,866; Dec. 7; v. 281; p. 196.
Engines and parts thereof, Explosive-. The Burnett-Larsh Manufacturing Company. No. 133,221; July 20; v. 276; p. 589.
Engines and parts thereof, Internal-combustion. Aktiebolaget Spritmotorer. No. 136,735; Nov. 9; v. 280; p. 377.
Engines and parts therof, winches, and capstans. N. & S. Engine Co. No. 130,714; May 4; v. 274; p. 184.
Engines and their parts, Internal-combustion. Supreme Motors Corporation. No. 136,954; Nov. 9; v. 280; p. 383.
Engines, Fluid for priming and starting internal-combustion. Albany Chemical Company. No. 131,394; May 18; v. 274; p. 601.
Engines, Fuel-feeding systems for internal-combustion. Stewart-Warner Speedometer Corporation. No. 133,834; Aug. 3; v. 277; p. 177.
Engines, Gas-. Power Manufacturing Company. No. 131,215; May 4; v. 274; p. 199.
Engines, Internal-combustion. Anderson Engine Company. No. 136,716; Nov. 2; v. 280; p. 191.
Engines, Internal-combustion. Arrol-Johnston. No. 129,121; Jan. 27; v. 270; p. 613.
Engines, Internal-combustion. Elgin Gas Motor Company. No. 130,293; Apr. 20; v. 273; p. 620.
Engines, Internal-combustion. Fairbanks, Morse & Co. No. 131,456; May 18; v. 274; p. 603.
Engines, Internal-combustion. The Frisbie Motor Company. No. 137,607; Nov. 30; v. 280; p. 997.
Engines, Internal-combustion. Gallowsen Grei Engine Co. No. 130,507; Apr. 27; v. 273; p. 802.
Engines, Internal-combustion. The Holt Manufacturing Company. No. 131,491; May 18; v. 274; p. 604.
Engines, Internal-combustion. The Power Manufacturing Company. No. 138,090; Dec. 14; v. 281; p. 400.
Engines, Internal-combustion. Rolls-Royce, Limited. No. 130,232; Apr. 13; v. 273; p. 403.
Engines, locomotives, &c. Allied Machinery Company of America. No. 135,889; Oct. 26; v. 279; p. 715.
Engines, locomotives, and their parts, motors, &c. Locomotive Pulverized Fuel Company. No. 131,534; May 18; v. 274; p. 605.
Engines Non-freezing solution for internal-combustion. New York Industrial Alcohol Company. No. 136,556; Nov. 2; v. 280; p. 185.
Engines, Stationary, marine, truck, and tractor, pumps, &c. Petroleum Engine & Manufacturing Co. No. 136,899; Nov. 9; v. 280; p. 382.
Engines, sugar and rolling mills, and plate-glass machinery. The Hooven, Owens, Rentschler Company. No. 138,026; Dec. 14; v. 281; p. 398.
Engines, tractors, &c., Internal-combustion. International Harvester Company. No. 137,805; Dec. 7; v. 281; p. 196.
Ensilage-cutters and silo-fillers. The Plymouth Foundry & Machine Co. No. 136,156; Oct. 26; v. 279; p. 723.
Envelops, Mailing-. Central Ohio Paper Co. No. 132,106; June 15; v. 275; p. 616.
Envelops, Mailing-. Heco Envelope Company. No. 137,623; Nov 30; v. 280; p. 998.
Envelops, papeteries, writing-tablets. The Central Ohio Paper Co. No. 134,901; Sept. 21; v. 278; p. 530.
Envelop-sealing slips, adhesive-paper seals. W. Sessions. No. 134,281; Aug. 24; v. 277; p. 779.
Envelops, writing papers, and tablets, Mailing and correspondence. American Papeterie Company. No. 132,607; June 29; v. 275; p. 1013.
Ephedra-plant, Dried parts of. J. J. Crawford. No. 128,662; Jan. 13; v. 270; p. 337.
Etching-powder. A. M. Collins Manufacturing Company. No. 132,650; June 29; v. 275; p. 1014.
Etchings, Printed multicolor. American Colortype Company. No. 136,295; Nov. 2; v. 280; p. 177.
Expectorant. E. R. Mohler. No. 138,490; Dec. 28; v. 281; p. 783.
Expectorant, Sedative. Sharp & Dohme. No. 129,535; Feb. 24; v. 271; p. 681.
Expectorant and bronchial sedative. The Eli Lilly & Company. No. 134,715; Sept. 14; v. 278; p. 357.

Alphabetical list of trade-marks—Continued.

Expectorant and cough-sedative. Eli Lilly & Company. No. 131,304; May 11; v. 274; p. 399.
Explosive of the dynamite type, High. E. I. du Pont de Nemours & Company. No. 130,704; May 4; v. 274; p. 184.
Explosives. E. I. du Pont de Nemours & Company. No. 137,988; Dec. 14; v. 281; p. 397.
Explosives, firearms, &c. Marble Arms & Mfg. Company. No. 137,511; Nov. 23; v. 280; p. 804.
Explosives, firearms, equipments, and projectiles. F. I. A. T. Fabbrica Italiana Automobili Torino. No. 137,215; Nov. 23; v. 280; p. 793.
Explosives, Granular and gelatinous. E. I. Du Pont de Nemours & Company. No. 133,238; July 20; v. 276; p. 590.
Explosives, Permissible. G. R. McAbee Powder & Oil Company. No. 136,084; Oct. 26; v. 279; p. 721.
Extract for use in making soft drinks, Concentrated. Lyster Chemical Company. No. 129,297; Feb. 10; v. 271; p. 856.
Extracts and flavors. McCormick & Co. No. 130,803; May 4; v. 274; p. 187.
Extracts and syrups for non-alcoholic beverages. W. J. Benekos. No. 128,308; Jan. 6; v. 270; p. 178.
Extracts, malt and fruit. W. D. Maier. No. 136,859; Nov. 9; v. 280; p. 381.
Extracts, Toilet. E. Gal, Sociedad En Comandita. No. 129,343; Feb. 17; v. 271; p. 507.
Eye-wash. F. I. Drobinski. No. 128,677; Jan. 13; v. 270; p. 337.
Eye-wash. Valmas Drug Company. No. 132,847; June 29; v. 275; p. 1020.
Eye-water, (chlorbutanol;) worm-syrup, and cold-cream. Co-Operative Drug Company. No. 138,440; Dec. 28; v. 281; p. 782.
Eyebrow-brushes. I. A. Campbell. No. 130,047; Apr. 6; v. 273; p. 179.
Eyeglass-cleaner. C. Jacknowitz. No. 131,505; May 18; v. 274; p. 604.
Eyeglass or pencil holders, Automatic-winding. Ketcham & McDougall. No. 137,816; Dec. 7; v. 281; p. 197.
Eyeglass and spectacle frames, Non-metallic. New Jersey Optical Co. No. 137,839; Dec. 7; v. 281; p. 197.
Eyeglasses. C. L. Hogue. No. 134,245; Aug. 24; v. 277; p. 778.
Eyeglasses and spectacles. Sanborn & Bartle. No. 129,306; Feb. 10; v. 271; p. 856.
Fabric, Artificial silk. Royal Embroidery Works, Naday & Fleischer. No. 136,280; Oct. 26; v. 279; p. 726.
Fabric made with a cotton warp. Lesher, Whitman & Co. No. 132,729; June 29; v. 275; p. 1017.
Fabric made with a cotton warp and a filling of wool or mohair, &c. Lesher, Whitman & Co. No. 133,989; July 6; v. 276; p. 202.
Fabric piece goods, Pile-. The Hind & Harrison Plush Co. No. 135,695; Oct. 19; v. 279; p. 528.
Fabric strips for underwear-trimmings. Julius Kayser & Co. No. 131,149; May 4; v. 274; p. 197.
Fabrics. Cheney Brothers. Nos. 138,172–9; Dec. 14; v. 281; pp. 403–4.
Fabrics and cotton and silk piece goods, linens, Pile. Saltzman & Berman. No. 132,239; June 15; v. 275; p. 620.
Fabrics, Artificial-silk. Royal Embroidery Works, Naday & Fleischer. No. 131,228; May 4; v. 274; p. 200.
Fabrics in the piece, Pile. The Salt's Textile Manufacturing Company. Nos. 136,610–12; Nov. 2; v. 280; p. 187.
Fabrics in the piece, Woven, knitted, &c. Cheney Brothers. Nos. 131,933–4; June 1; v. 275; p. 199.
Fabrics in the piece, Woven, knitted, netted, &c. Cheney Brothers. No. 138,380; Dec. 21; v. 281; p. 569.
Fabrics, Narrow woven. C. Prosnitz. No. 133,022; July 6; v. 276; p. 203.
Fabrics of silk and silk mixtures. Cheney Brothers. No. 132,911; July 6; v. 276; p. 200.
Fabrics of silk and silk mixtures in the piece. Cheney Brothers. Nos. 129,642–5; Mar. 9; v. 272; p. 361.
Fabrics, Pile. Bennett and Aspden. No. 132,095; June 15; v. 275; p. 615.
Fabrics, Pile. Sidney Blumenthal & Co. No. 132,244; June 15; v. 275; p. 620.
Fabrics, Pile. Sidney Blumenthal & Co. Nos. 135,609–10; Oct. 19; v. 279; p. 526.
Fabrics, Textile. Cohen Brothers Manufacturing Co. No. 135,955; Oct. 26; v. 279; p. 717.
Fabrics, Textile. W. S. Gavey. No. 133,248; July 20; v. 276; p. 590.
Fabrics, Textile. Hispanic Textile Company. No. 136,032; Oct. 26; v. 279; p. 719.
Fabrics, Textile. Julius Levy Sons Co. No. 136,072; Oct. 26; v. 279; p. 720.
Fabrics, Textile. Kops Bros. No. 131,942; June 1; v. 275; p. 199.
Fabrics, Textile. Lamborn & Co. No. 130,338; Apr. 20; v. 273; p. 621.
Fabrics, Textile. Lewis Mfg. Company. No. 133,720; Aug. 3; v. 277; p. 174.
Fabrics, Textile. A. I. Ludwig. No. 135,004; Sept. 21; v. 278; p. 533.
Fabrics, Textile. E. V. C. Weyand. No. 137,750; Nov. 30; v. 280; p. 1003.
Fabrics, Woven, printed, and dyed drapery. A. M. Barbe. No. 132,890; July 6; v. 276; p. 199.
Factory and other buildings and parts thereof, Standard. The Austin Company. No. 135,903; Oct. 26; v. 279; p. 715.
Fancy goods and notions, &c. Waldes & Company. No. 130,977; May 4; v. 274; p. 192.
Fancy goods and notions. Waldes & Company. No. 130,979; May 4; v. 274; p. 192.
Fancy goods, furnishings, and notions. Herbert Terry & Sons. No. 133,190; July 13; v. 276; p. 404.
Fancy goods, furnishings, and notions. Joseph Louis & Co. No. 133,265; July 20; v. 276; p. 591.
Fancy goods, furnishings, and notions. Priscilla Publishing Co. No. 132,783; June 29; v. 275; p. 1018.
Fancy goods, furnishings, and notions. Tiffany & Company. Nos. 136,218–19; Oct. 26; v. 279; p. 725.
Fancy goods, furnishings, and notions. Waldes & Co. No. 130,434; Apr. 20; v. 273; p. 624.
Fancy goods, furnishings, and notions. Waldes & Co. No. 130,436; Apr. 20; v. 273; p. 624.
Fancy goods, furnishings, and notions. Waldes & Co. No. 133,863; Aug. 3; v. 277; p. 178.
Fancy goods, furnishings and notions. Waldes & Co. No. 136,246; Oct. 26; v. 279; p. 726.
Fans and blowers. Ilg Electric Ventilating Company. No. 134,976; Sept. 21; v. 278; p. 532.
Fans, Electric. T. E. Clark. No. 130,280; Apr. 20; v. 273; p. 619.
Farina, pearl-barley, &c. F. B. Chamberlain Company. No. 130,473; Apr. 27; v. 273; p. 801.
Farm-tractors. Gray Tractor Company. No. 130,738; May 4; v. 274; p. 185.
Fastener, Snap-. Carr Fastener Company. No. 131,895; May 25; v. 274; p. 835.
Fasteners, Snap-. Carr Fastener Company. Nos. 131,966–7; June 8; v. 275; p. 413.
Fasteners, Snap-. The Guarantee Specialty Manufacturing Company. No. 133,690; Aug. 3; v. 277; p. 173.
Fasteners, Snap-. Samstag & Hilder Bros. No. 132,047; June 8; v. 275; p. 416.
Fat, Cooking-. Procter and Gamble Company. No. 128,488; Jan. 6; v. 270; p. 183.
Fats. De Nordiske Fabrikar, De-No-Fa. No. 137,985; Dec. 14; v. 281; p. 397.
Fats. De Nordiske Fabriker De-No-Fa Aktieselskab. No. 128,861; Jan. 6; v. 270; p. 179.
Fats and fats used as a base for medicinal ointments. De Nordiske Fabriker, De-No-Fa. No. 135,648; Oct. 19; v. 279; p. 527.
Fats, Refined and unrefined. De Nordiske Fabriker De No-Fa. Aktieselskab. No. 133,951; Aug. 10; v. 277; p. 387.
Fats used as paint and varnish vehicles and driers. De Nordiske Fabriker, De-No-Fa, Aktieselskab. No. 136,790; Nov. 9; v. 280; p. 378.
Fats used in the manufacture of ointment. De Nordiske Fabricker, De-No-Fa Aktieselskab. No. 134,626; Sept. 14; v. 278; p. 355.
Faucets, manually-operated valves and cocks. The Cleveland Brass Manufacturing Company. No. 135,952; Oct. 26; v. 279; p. 717.
Faucets, valves, cocks. The Cleveland Brass Manufacturing Company. No. 133,614; Aug. 3; v. 277; p. 171.
Feathers. Star Bedding Company. No. 130,416; Apr. 20; v. 273; p. 624.
Feathers. Wahlert & Guntzler. No. 129,240; Jan. 27; v. 270; p. 617.
Feed. The McMillen Co. No. 132,016; June 8; v. 275; p. 415.
Feed. Voigt Milling Company. No. 129,238; Jan. 27; v. 270; p. 617.
Feed. Wash-Co. Alfalfa Milling Co. No. 128,566; Jan. 6; v. 270; p. 185.
Feed and hominy-meal, Wheat. St. Albans Grain Company. No. 135,818; Oct. 19; v. 279; p. 532.
Feed, chick size, Poultry. International Sugar Feed Co. No. 135,467; Oct. 12; v. 279; p. 343.
Feed, Compound ground. Blatchford Calf Meal Company. No. 130,641; May 4; v. 274; p 182.
Feed crushers and grinders, corn-planters, &c. Stock-Letz Manufacturing Co. No. 133,718; Aug. 3; v. 277; p. 174.
Feed, Dairy. International Sugar Feed Co. No. 133,996; Aug. 10; v. 277; p. 388.
Feed, Dairy. St. Albans Grain Company. No. 134,284; Aug. 24; v. 277; p. 779.
Feed, Dairy and stock. American Mutual Seed Co. No. 137,013; Nov. 16; v. 280; p. 583.
Feed, Dairy and stock. Chapin & Company. No. 128,327; Jan. 6; v. 270; p. 178.
Feed, Dairy and stock. Chapin & Company. No. 132,640; June 29; v. 275; p. 1014.
Feed for animals. Samuel Hastings Co. No. 136,825; Nov. 9; v. 280; p. 379.
Feed, for animals, Dairy. H. L. Halliday Milling Co. No. 136,271; Oct. 26; v. 279; p. 727.
Feed for calves and pigs, Mixed grain. Hales & Edwards Company. No. 132,402; June 22; v. 275; p. 819.
Feed for egg production, Poultry. The Brooks Company. No. 136,335; Nov. 2; v. 280; p. 178.
Feed for live stock and poultry. Burley Feed Manufacturing Company. No. 135,621; Oct. 19; v. 279; p. 526.
Feed for rabbits, &c. Blatchford Calf Meal Company. No. 128,631; Jan. 13; v. 270; p. 336.

Digitized by Google

Feed for stock. Farmers Cotton Oil Co. No. 128,375; Jan. 6; v. 270; p. 180.
Feed for stock. Great Western Milling Company. No. 138,458; Dec. 28; v. 281; p. 782.
Feed, Hog. International Sugar Feed Co. No. 135,466; Oct. 12; v. 279; p. 348.
Feed, Hog. Swift and Company. No. 131,632; May 18; v. 274; p. 609.
Feed, Hog and cattle. Schreiber Milling & Grain Co. No. 134,081; Aug. 10; v. 277; p. 390.
Feed, Hominy. Postum Cereal Company. No. 128,821; Jan. 13; v. 270; p. 342.
Feed, Horse. Western Feed Manufacturers. No. 132,860; June 29; v. 275; p. 1020.
Feed, Horse. Western Feed Manufacturers. Nos. 134,125–6; Aug. 10; v. 277; p. 392.
Feed, Horse and mule. H. L. Halliday Milling Co. No. 129,466; Feb. 24; v. 271; p. 678.
Feed, Mixed animal. H. L. Halliday Milling Co. No. 136,270; Oct. 26; v. 279; p. 727.
Feed, Mixed animal. H. L. Halliday Milling Co. No. 136,272; Oct. 26; v. 279; p. 727.
Feed, Mixed live-stock. Chapin & Company. No. 128,326; Jan. 6; v. 270; p. 178.
Feed, Poultry. Chas. A. Krause Milling Co. No. 129,012; Jan. 20; v. 270; p. 474.
Feed, Poultry. The G. E. Conkey Co. Nos. 130,682–3; May 4; v. 274; p. 183.
Feed, Poultry. C. O. Dickelman Co. No. 131,937; June 1; v. 275; p. 199.
Feed, Poultry and stock. J. Cushing Co. No. 131,972; June 8; v. 275; p. 413.
Feed, Poultry and stock. The Nickel Plate Elevator Co. No. 136,880; Nov. 9; v. 280; p. 381.
Feed, Rabbit. Western Feed Manufacturers. No. 134,127; Aug. 10; v. 277; p. 392.
Feed, Scratch. H. L. Halliday Milling Co. No. 136,269; Oct. 26; v. 279; p. 727.
Feed, Scratch. Western Feed Manufacturers. Nos. 132,861–2; June 29; v. 275; pp. 1020–1.
Feed, Scratch. Western Feed Manufacturers. No. 134,124; Aug. 10; v. 277; p. 392.
Feed, Scratch. Western Feed Manufacturers. No. 134,128; Aug. 10; v. 277; p. 392.
Feed, Stock. Albers Bros. Milling Company. No. 138,413; Dec. 28; v. 281; p. 781.
Feed, Stock. Alfocorn Milling Company. Nos. 135,884–8; Oct. 26; v. 275; p. 715.
Feed, Stock. Alfocorn Milling Company. No. 136,290; Nov. 2; v. 280; p. 177.
Feed, Stock. Alfocorn Milling Company. No. 136,291; Nov. 2; v. 280; p. 177.
Feed, Stock. Chas. A. Krause Milling Co. No. 128,753; Jan. 13; v. 270; p. 340.
Feed, Stock. Chas. A. Krause Milling Co. No. 130,785; May 4; v. 274; p. 186.
Feed, Stock. Great Western Milling Company. Nos. 138,012–13; Dec. 14; v. 281; p. 397.
Feed, Stock. Northern Illinois Cereal Company. No. 136,125; Oct. 26; v. 279; p. 722.
Feed, Stock. Owensboro Products Company. No. 130,383; Apr. 20; v. 273; p. 623.
Feed, Stock. Ralston Purina Company. No. 134,069; Aug. 10; v. 277; p. 390.
Feed, Stock. Ralston Purina Company. No. 136,595; Nov. 2; v. 280; p. 186.
Feed, Stock. St. Albans Grain Company. No. 134,283; Aug. 24; v. 277; p. 779.
Feed, Stock. Western Feed Manufacturers. No. 134,129; Aug. 10; v. 277; p. 392.
Feed, Stock, dairy, and poultry. The Superior Feed Co. No. 135,344; Sept. 28; v. 278; p. 705.
Feeds. The Great Western Alfalfa Milling Company. No. 128,395; Jan. 6; v. 270; p. 180.
Feeds for animals and poultry. Blatchford Calf Meal Company. No. 128,632; Jan. 13; v. 270; p. 336.
Feeds for horses, cattle, hogs, &c., Mixed. Donmeyer Gardener Co. No. 135,225; Sept. 28; v. 278; p. 702.
Feeds, Poultry. W. P. Johnson. No. 135,473; Oct. 12; v. 279; p. 344.
Feeds, Poultry and stock. J. Cushing Co. No. 132,660; June 29; v. 275; p. 1014.
Feeds, Stock, &c. Barber & Bennett. No. 130,633; May 4; v. 274; p. 182.
Feeds, Stock. Southern Feed Company. No. 128,862; Jan. 13; v. 270; p. 343.
Feeds, Stock and poultry. J. J. Badenoch Co. No. 135,196; Sept. 28; v. 278; p. 701.
Feeds, Stock and poultry. Simmons Milling Company. No. 129,078; Jan. 20; v. 270; p. 476.
Feeder-attachments for Chandler & Price printing-presses, Automatic. Humana Company. No. 137,272; Nov. 23; v. 280; p. 794.
Feeders, Poultry-. Cyclone Manufacturing Co. No. 138,539; Dec. 28; v. 281; p. 785.
Felt for construction purposes, Prepared. J. H. Stone. No. 133,327; July 20; v. 276; p. 593.
Fenceposts, Metallic. B. Anderson. No. 136,743; Nov. 9; v. 280; p. 377.
Fenceposts, Metallic. Chicago Steel Post Company. No. 131,290; May 11; v. 274; p. 399.
Fenceposts, Steel. R. C. Knopke. No. 130,530; Apr. 27; v. 273; p. 803.
Fertilizer. The American Agricultural Chemical Company. No. 132,876; July 6; v. 276; p. 199.
Fertilizer. The American Agricultural Chemical Company. No. 137,527; Nov. 30; v. 280; p. 995.
Fertilizer. Coe-Mortimer Company. No. 131,725; May 25; v. 274; p. 820.
Fertilizers. Crabbs Reynolds Taylor Co. No. 130,168; Apr. 13; v. 273; p. 401.
Fertilizer. A. G. Macdonell. No. 134,412; Aug. 31; v. 277; p. 973.
Fertilizer. The Pocomoke Guano Co. No. 136,157; Oct. 26; v. 279; p. 723.
Fertilizer, agricultural lime, land-plaster, and agricultural salt. Chas. W. Priddy & Company. No. 136,904; Nov. 9; v. 280; p. 382.
Fertilizer compound. R. H. Hoover. No. 135,460; Oct. 12; v. 279; p. 343.
Fertilizer materials. Nitrate Agencies Company. No. 129,037; Jan. 20; v. 270; p. 475.
Fertilizers. Armour Fertilizer Works. No. 134,212; Aug. 24; v. 277; p. 777.
Fertilizers. The Fisheries Products Co. No. 134,361; Aug. 31; v. 277; p. 972.
Fertilizers. International Agricultural Corporation. No. 137,627; Nov. 30; v. 280; p. 998.
Fertilizers. Randall-McLoughlin & Co. No. 131,825; May 25; v. 274; p. 833.
Fertilizers. Société des Produits Azotés. No. 136,193; Oct. 26; v. 279; p. 724.
Fertilizers. Southern Fertilizer & Chemical Co. No. 128,521; Jan. 6; v. 270; p. 184.
Fertilizers. Tjork Chemical Works. No. 137,903; Dec. 7; v. 281; p. 199.
Fertilizing compound. Central Chemical Company. No. 137,144; Nov. 23; v. 280; p. 790.
Fiber-board and corrugated fiber shipping-containers. Mengel Box Company. No. 136,524; Nov. 2; v. 280; p. 184.
Fiber-decorticating machinery. Prieto Machine Company. No. 138,092; Dec. 14; v. 281; p. 400.
File perforators or punches. Paragon Binder Corporation. No. 136,143; Oct. 20; v. 279; p. 723.
File-signals and index-tabs. George B. Graff Company. No. 136,818; Nov. 9; v. 280; p. 379.
Files and loose-leaf binders and sheet-holding attachments therefor, Temporary. W. M. Aydelotte. No. 128,296; Jan. 6; v. 270; p. 177.
Files and rasps. Nicholson File Company. No. 135,872; Oct. 19; v. 279; p. 536.
Files, Document-. Safe-Cabinet Company. No. 130,901; May 4; v. 274; p. 190.
Fillers, Metallic. Aluminum Brazing Solder Company. No. 137,012; Nov. 16; v. 280; p. 583.
Filling and structural material. Celite Products Company. Nos. 132,325–6; June 22; v. 275; p. 816.
Filling and structural material, Heat-insulating, &c. Celite Products Company. No. 132,324; June 22; v. 275; p. 816.
Films, Cinematographic. Treefilm Company, Inc. No. 134,197; Aug. 17; v. 277; p. 582.
Films, Moving-picture. Universal Film Manufacturing Company. No. 128,887; Jan. 13; v. 270; p. 344.
Filter for smoking-pipes. C. E. Wiltsey. No. 133,876; Aug. 3; v. 277; p. 179.
Filters, Gasolene-. Visible Gasoline Filter Company. No. 135,355; Sept. 28; v. 278; p. 706.
Fire-alarms, Mechanical. Fabart Instrument Co. No. 133,648; Aug. 3; v. 277; p. 172.
Fire brick and tile. Laclede-Christy Clay Products Company. No. 136,847; Nov. 9; v. 280; p. 380.
Fire-bricks and tile for metallurgical furnaces. Crescent Refractories Company. No. 128,345; Jan. 6; v. 270; p. 179.
Fire-doors. Minnesota Roofing & Cornice Works. No. 135,754; Oct. 19; v. 279; p. 530.
Fire-engines, water-towers, &c. American La France Fire Engine Co. No. 132,284; June 22; v. 275; p. 815.
Fire-extinguisher, Mechanical. Sentinel Appliances Company. No. 136,185; Oct. 26; v. 279; p. 724.
Fire-extinguishers. C. Bardos, Jr. No. 130,476; Apr. 27; v. 273; p. 801.
Fire-extinguishers. Foamite Firefoam Company. No. 133,964; Aug. 10; v. 277; p. 387.
Fire-extinguishers, Hand. W. S. Milliken. No. 136,106; Oct. 26; v. 279; p. 721.
Fire-extinguishers, Hand. The Ralko Products Company. No. 134,189; Aug. 17; v. 277; p. 582.
Fire-extinguishing compound. First Aid Extinguisher Co. No. 128,379; Jan. 6; v. 270; p. 180.
Fire-extinguishing compound, Chemical. Carbona Products Company. No. 132,320; June 22; v. 275; p. 816.
Fire-extinguishing compounds. U. S. Fire Extinguisher Co. No. 135,096; Sept. 21; v. 278; p. 536.
Fire-extinguishing fluid. Everit Chemical Co. No. 134,639; Sept. 14; v. 278; p. 355.
Fire-extinguishing powder compound. Select Products Sales Corporation. No. 131,368; May 11; v. 274; p. 402.
Fire-extinguishing syringes. Scallan Supply Company. No. 130,570; Apr. 27; v. 273; p. 804.
Fire-extinguishing systems, Marine. Walter Kidde & Company. No. 137,898; Dec. 17; v. 281; p. 199.

Digitized by Google

Alphabetical list of trade-marks—Continued.

Fire-hose. C. M. C. Baird. No. 138,574; Aug. 3; v. 277; p. 169.
Fireproof floorings and coverings for partitions, walls, and roofings, Composition. J. D. Insulating & Refrigerating Co. No. 134,692; Sept. 14; v. 278; p. 357.
Fireworks. Unexcelled Manufacturing Company. No. 133,532; July 27; v. 276; p. 772.
Fireworks. Unexcelled Manufacturing Company. No. 135,094; Sept. 21; v. 278; p. 535.
Fish. N. E. Megler. No. 131,187; May 4; v. 274; p. 198.
Fish. Musher & Company. No. 129,509; Feb. 24; v. 271; p. 680.
Fish, Dried cod-. Knapp & Van Nostrand. No. 138,042; Dec. 14; v. 281; p. 398.
Fish, game, &c., Sauce for. W. P. Bowman. No. 128,943; Jan. 20; v. 270; p. 472.
Fish—viz., canned pilchards. Nootka Packing Company. No. 136,881; Nov. 9; v. 280; p. 381.
Fish, Frozen, smoked, salted, and fresh. North American Fisheries & Cold Storage Ltd. No. 137,352; Nov. 23; v. 280; p. 797.
Fish products. Smith Bros. No. 136,935; Nov. 9; v. 280; p. 383.
Fish, Salt. J. K. Dennis. Nos. 131,975–6; June 8; v. 275; pp. 413–4.
Fish, sardine paste, and canned berries, Cured, &c. Alaska-California Fish & Pkg. Co. No. 137,526; Nov. 30; v. 280; p. 995.
Fish, Smoked. Karl Seller & Sons. No. 136,932; Nov. 9; v. 280; p. 383.
Fish, vegetable oils, and dressings for meats, &c. Musher & Company. No. 131,557; May 18; v. 274; p. 606.
Fishing-lines. Cortland Line Co. No. 132,920; July 6; v. 276; p. 200.
Fishing-lines. The Horton Manufacturing Co. No. 134,972; Sept. 21; v. 278; p. 532.
Fishing-lines. The Horton Manufacturing Co. No. 135,263; Sept. 28; v. 278; p. 703.
Fishing-lines. Horton Manufacturing Co. No. 135,462; Oct. 12; v. 279; p. 343.
Fishing-reels. H. From. No. 130,500; Apr. 27; v. 273; p. 802.
Fishing rods and hooks. Forest & Stream Publishing Co. No. 128,382; Jan. 6; v. 270; p. 186.
Fishing rods, hooks, nets, lines, &c. Cumberland (Aylestone), Limited. No. 132,924; July 6; v. 276; p. 200.
Fishing rods, lines, reels, hooks, and bait. Hibbard, Spencer, Bartlett & Co. No. 135,260; Sept. 28; v. 278; p. 703.
Fishing supplies. The Thomson-Diggs Co. No. 136,964; Nov. 9; v. 280; p. 384.
Fishing-tools for wells. Arthur H. Brandon & Co. No. 134,154; Aug. 17; v. 277; p. 581.
Fishermen's supplies. Marshall-Wells Company. No. 136,530; Nov. 2; v. 280; p. 184.
Flags. Emerson Manufacturing Company. Nos. 132,670-1; June 29; v. 275; p. 1015.
Flannels, Cotton. Amoskeag Manufacturing Company. No. 138,547; Dec. 28; v. 281; p. 786.
Flash-lights. Shapleigh Hardware Company. No. 135,071; Sept. 21; v. 278; p. 535.
Flash-lights and batteries. Shapleigh Hardware Company. No. 138,845; Dec. 21; v. 281; p. 567.
Flash-lights and flash-light cases, Portable. Henry Hyman & Co. No. 132,175; June 15; v. 275; p. 618.
Flasks, &c., Metal foundry-. Union Metal Manufacturing Company. No. 131,649; May 18; v. 274; p. 609.
Flat-ware. Oneida Community. No. 130,882; Apr. 20; v. 273; p. 623.
Flat-ware and tableware, Silver-plated. Oneida Community. No. 134,050; Aug. 10; v. 277; p. 390.
Flat-ware and tableware, Silver-plated. Oneida Community. No. 138,323; Dec. 21; v. 281; p. 566.
Flat-ware, Plated. Oneida Community. No. 131,204; May 4; v. 274; p. 190.
Flat-ware, Plated. Oneida Community. Nos. 133,012–14; July 6; v. 276; p. 203.
Flat-ware plated with precious metal. Oneida Community. Nos. 129,816–18; Mar. 9; v. 272; p. 366.
Flatirons, Electric. Chicago Flexible Shaft Company. Nos. 131,063–4; May 4; v. 274; p. 195.
Flatirons, Electric. Chicago Flexible Shaft Company. No. 135,413; Oct. 12; v. 279; p. 342.
Flatirons, Electric. Chicago Flexible Shaft Company. No. 136,776; Nov. 9; v. 280; p. 378.
Flatirons, Electric. Chicago Flexible Shaft Company. No. 137,150; Nov. 23; v. 280; p. 791.
Flatirons, Electrical. Chicago Flexible Shaft Company. No. 130,279; Apr. 20; v. 273; p. 619.
Flavoring compounds for foods. The Synvita Products Company. No. 136,659; Nov. 2; v. 280; p. 188.
Flavoring compounds for soft drinks, non-alcoholic, non-cereal maltless. G. C. Boultbee. No. 136,760; Nov. 9; v. 280; p. 377.
Flavoring extract for foods. H. Kohnstamm & Co. No. 130,780; May 4; v. 274; p. 186.
Flavoring extract for foods. H. Kohnstamm & Co. No. 131,161; May 4; v. 274; p. 198.
Flavoring extracts. National Fruit Flavor Co. No. 130,840; May 4; v. 274; p. 188.
Flavoring extracts. C. F. Sauer Company. No. 128,512; Jan. 6; v. 270; p. 184.
Flavoring extracts. C. F. Sauer Co. No. 130,403; Apr. 20; v. 273; p. 623.
Flavoring extracts. Southern Extract & Spice Co. No. 131,926; May 25; v. 274; p. 836.
Flavoring extracts and syrups. Limpert Bros., Inc. No. 130,797; May 4; v. 274; p. 187.
Flavoring extracts Food-. Ades Product Corporation. No. 134,333; Aug. 31; v. 277; p. 971.
Flavoring extracts, Food-. American Laboratories. No. 128,600; Jan. 13; v. 270; p. 335.
Flavoring extracts, Food-. American Laboratories. No. 129,320; Feb. 17; v. 271; p. 507.
Flavoring extracts, Food-. American Renoleo Company. No. 132,608; June 29; v. 275; p. 1013.
Flavoring extracts, Food-. Garrett and Company. No. 129,358; Feb. 17; v. 271; p. 508.
Flavoring extracts, Food-. C. F. Sauer Company. No. 128,843; Jan. 13; v. 270; p. 343.
Flavoring extracts, Food-. J. C. Waltersdorff. No. 137,574; Nov. 30; v. 280; p. 996.
Flavoring extracts for foods. F. B. Chamberlain Company. No. 131,062; May 4; v. 274; p. 195.
Flavoring extracts, roasted coffee, Food-. Steinwender-Stoffregen Coffee Company. No. 129,086; Jan. 20; v. 270; p. 476.
Flavoring extracts used in the making of non-alcoholic, &c., beverages. The C. F. Sauer Company. No. 132,509; June 22; v. 275; p. 822.
Flavoring, Food. The Youngstown Chemical Co. No. 136,265; Oct. 26; v. 279; p. 726.
Flavoring for foods. W. K. Jahn Co. No. 128,740; Jan. 13; v. 270; p. 339.
Flavoring material. Grape Ola Products Corporation. No. 138,010; Dec. 14; v. 281; p. 397.
Flavoring material for making a non-alcoholic fruit beverage and the beverage made therefrom. Grape Ola Products Corporation. Nos. 134,504–5; Sept. 7; v. 278; p. 160.
Flavoring material for making a non-alcoholic beverage and the beverage made therefrom. Grape Ola Products Corporation. No. 134,506; Sept. 7; v. 278; p. 160.
Flavoring preparation used in making a non-alcoholic beverage. George Ziegler Co. No. 138,377; Dec. 21; v. 281; p. 568.
Flavoring substance. R. Frank. No. 136,806; Nov. 9; v. 280; p. 379.
Flavoring-syrup. Hamilton Mfg. Co. No. 137,503; Nov. 23; v. 280; p. 803.
Flavoring-syrups. Liquid Carbonic Company. No. 137,819; Dec. 7; v. 281; p. 197.
Flavorings for ice-cream, &c., Food-. Semrad Chemical Co. No. 138,115; Dec. 14; v. 281; p. 401.
Flavors for food. Commercial Laboratories. No. 138,538; Dec. 28; v. 281; p. 785.
Flavors for ice-cream and candy. W. B. Wood Mfg. Co. No. 138,555; Dec. 28; v. 281; p. 787.
Flavors for making soft drinks. Hugh J. McMackin Co. No. 138,057; Dec. 14; v. 281; p. 399.
Floor-covering. The Charles William Stores. No. 135,167; Sept. 21; v. 278; p. 537.
Floor-coverings, Prepared. The Congoleum Company. No. 134,918; Sept. 21; v. 278; p. 530.
Floor-dressing, furniture, &c., polishes, wax. Wikstrom Manufacturing Company. No. 136,703; Nov. 2; v. 280; p. 190.
Floor-finish. B. L. Webb. No. 132,583; June 22; v. 275; p. 825.
Floors and stuccos of magnesite base, Composition. G. B. Smith. No. 133,321; July 20; v. 276; p. 592.
Flooring and materials for making same, Composition. Everlasbestos Flooring Company. No. 129,982; Mar. 16; v. 272; p. 539.
Flooring, Composition. Linotol Flooring Co. No. 136,855; Nov. 9; v. 280; p. 380.
Flooring, Lumber and hardwood. The Mowbray & Robinson Company. No. 133,288; July 20; v. 276; p. 591.
Flooring, Wood. Mason-Donaldson Lumber Co. No. 128,574; Jan. 6; v. 270; p. 186.
Flooring, Wood. Mason-Donaldson Lumber Co. No. 129,993; Mar. 16; v. 272; p. 539.
Floss and crocheting cotton. F. Schulemann Co. No. 128,849; Jan. 13; v. 270; p. 343.
Flour. Omaha Flour Mills Co. No. 130,220; Apr. 13; v. 273; p. 403.
Flour. R. C. Poage Milling Co. No. 131,214; May 4; v. 274; p. 199.
Flour. Ultramares Corporation. No. 131,248; May 4; v. 274; p. 200.
Flour and cornmeal. St. Albans Grain Company. No. 136,642; Nov. 2; v. 280; p. 188.
Flour and cornmeal, Wheat-. Bay City Milling Company. No. 131,959; June 8; v. 275; p. 413.
Flour and food starches, Arrowroot. Chas. Morningstar & Co. No. 128,464; Jan. 6; v. 270; p. 182.
Flour and macaroni, Wheat-. Dundas Food Products Corporation. No. 137,991; Dec. 14; v. 281; p. 397.
Flour and stock feed, Wheat-. Canton Feed & Milling Company. No. 131,932; June 1; v. 275; p. 199.
Flour, Barley-malt. Gambrill Grain Products Company. No. 134,238; Aug. 24; v. 277; p. 778.
Flour, bran, middlings, mixed feed, Wheat-. Midwest Flour & Feed Company. No. 130,549; Apr. 27; v. 273; p. 804.
Flour, bran, middlings, &c., Wheat-. A. Dodge & Son Corp. No. 133,955; Aug. 10; v. 277; p. 387.

Digitized by Google

Flour, Corn-. The Patent Cereals Company. No. 134,262; Aug. 24; v. 277; p. 778.
Flour, Corn-. Postum Cereal Company. No. 129,366; Feb. 17; v. 271; p. 509.
Flour, corn-grits, and cornmeal, Corn-. W. P. Tanner-Gross & Company. No. 136,208; Oct. 26; v. 279; p. 725.
Flour, cornmeal, and rolled oats, Wheat-. W. P. Tanner-Gross & Company. No. 134,286; Aug. 24; v. 277; p. 779.
Flour, Enriched pastry-. R. Maurice and Company. No. 134,024; Aug. 10; v. 277; p. 389.
Flour, Hard-wheat. Tyler & Company. No. 135,831; Oct. 19; v. 279; p. 532.
Flour, Highest-patent. Morrison Bros. Mills. No. 134,033; Aug. 10; v. 277; p. 389.
Flour, hominy, grits, meal, &c., Corn-. Postum Cereal Company. No. 134,267; Aug. 24; v. 277; p. 778.
Flour, Pancake-. The Commercial Milling Co. No. 134,350; Aug. 31; v. 277; p. 971.
Flour, parched bran and wheat, &c., Pancake-. Pettijohn Pure Products Co. No. 131,576; May 18; v. 274; p. 607.
Flour, Rye-. Stern Milling Company. Nos. 130,930–1; May 4; v. 274; p. 191.
Flour, Rye-. Stern Milling Company. No. 134,092; Aug. 10; v. 277; p. 391.
Flour, Self-rising. The Ashland Milling Co. No. 133,899; Aug. 10; v. 277; p. 385.
Flour, Self-rising. Garland Milling Company. No. 130,727; May 4; v. 274; p. 185.
Flour, Self-rising. The Longmont Farmer's Milling & Elevator Company. No. 133,287; Dec. 21; v. 281; p. 565.
Flour, Self-rising pancake-. Miles City Milling & Elevator Company. No. 129,377; Feb. 17; v. 271; p. 508.
Flour, Self-rising wheat-. The Acme Mills. No. 131,949; June 8; v. 275; p. 413.
Flour- Self-rising wheat-. Albany Grocery Co. No. 133,890; Aug. 10; v. 277; p. 385.
Flour, Self-rising wheat-. Bernet, Craft & Kauffman Milling Co. No. 131,961; June 8; v. 275; p. 413.
Flour, Self-rising wheat-. Carlyle Milling Company. No. 131,061; May 4; v 274; p. 195.
Flour, Self-rising wheat-. C. A. Gambrill Manuf'g Company. No. 130,726; May 4; v. 274; p. 185.
Flour, Self-rising wheat-. Hezel Milling Company. Nos. 130,512–13; Apr. 27; v. 273; p. 803.
Flour, Self-rising wheat-. Hezel Milling Company. No. 131,138; May 4; v. 274; p. 197.
Flour, Self-rising wheat-. Mennel Milling Company. No. 132,198; June 15; v. 275; p. 618.
Flour, Self-rising wheat-. Prange Milling Company. No. 136,589; Nov. 2; v. 280; p. 186.
Flour, Self-rising wheat-. Quaker City Flour Mills Company. No. 129,206; Jan. 27; v. 270; p. 616.
Flour, Self-rising wheat-. Roanoke City Mills. No. 130,892; May 4; v. 274; p. 190.
Flour, syrup, Compound. L. G. Voll. No. 128,560; Jan. 6; v. 270; p. 185.
Flour, Wheat-. Ada Milling Company. No. 137,523; Nov. 30; v. 280; p. 995.
Flour, Wheat-. Amendt Milling Company. No. 133,891; Aug. 10; v. 277; p. 385.
Flour, Wheat-. American Flour Corporation. No. 128,916; Jan. 20; v. 270; p. 471.
Flour, Wheat-. American Trading Co. Nos. 137,760–2; Dec. 7; v. 281; p. 195.
Flour, Wheat-. American Trading Co. No. 137,927; Dec. 14; v. 281; p. 395.
Flour, Wheat-. The Atchison Mills Corporation. No. 132,616; June 29; v. 275; p. 1013.
Flour, Wheat-. The Atchison Mills Corporation. No. 134,214; Aug. 24; v. 277; p. 777.
Flour, Wheat-. Barber Milling Company. No. 129,605; Mar. 9; v. 272; p. 360.
Flour, Wheat-. Bech, Van Siclen & Co. No. 135,391; Oct. 12; v. 279; p. 341.
Flour, Wheat-. The Belpre Co-Operative Equity Union. No. 137,119; Nov. 23; v. 280; p. 790.
Flour, Wheat-. The Bennett Milling Co. No. 137,945; Dec. 14; v. 281; p. 395.
Flour, Wheat-. Big Diamond Mills Co. No. 138,425; Dec. 28; v. 281; p. 781.
Flour, Wheat-. Boyd Milling Company. No. 136,762; Nov. 9; v. 280; p. 378.
Flour, Wheat-. Canadian-American Cereal Products Co. No. 136,349; Nov. 2; v. 280; p. 179.
Flour, Wheat-. Cannon Valley Milling Company. Nos. 136,353–4; Nov. 2; v. 280; p. 179.
Flour, Wheat-. Cannon Valley Milling Company. No. 137,139; Nov. 23; v. 280; p. 790.
Flour, Wheat-. T. L. Carroll Company. No. 130,665; May 4; v. 274; p. 183.
Flour, Wheat-. T. L. Carroll Company. No. 132,908; July 6; v. 276; p. 200.
Flour, Wheat-. Colorado Milling & Elevator Co. No. 128,655; Jan. 13; v. 270; p. 337.
Flour, Wheat-. The Colorado Milling & Elevator Co. No. 131,433; May 18; v. 274; p. 662.
Flour, Wheat-. The Colorado Milling & Elevator Co. No. 134,229; Aug. 24; v. 277; p. 777.
Flour, Wheat-. Commander Mill Co. No. 137,164; Nov. 23; v. 280; p. 791.
Flour, Wheat-. The Commercial Milling Co. No. 133,230; July 20; v. 276; p. 590.
Flour, Wheat-. Concordia Mill & Elevator Company. No. 135,958; Oct. 26; v. 279; p. 717.
Flour, Wheat-. Corden Brothers and Co. No. 136,759; Nov. 9; v. 280; p. 377.
Flour, Wheat-. Dawson-Davis Company. No. 137,982; Dec. 14; v. 281; p. 396.
Flour, Wheat-. H. Dittlinger Roller Mills Company. No. 128,676; Jan. 13; v. 270; p. 337.
Flour, Wheat-. H. Dittlinger Roller Mills Company. No. 128,968; Jan. 20; v. 270; p. 472.
Flour, Wheat-. Donmeyer, Gardner Co. No. 129,149; Jan. 27; v. 270; p. 614.
Flour, Wheat-. Donmeyer, Gardner Co. No. 130,485; Apr. 27; v. 273; p. 802.
Flour, Wheat-. Donmeyer, Gardner Co. Nos. 134,233–4; Aug. 24; v. 277; p. 777.
Flour, Wheat-. Dorris Milling Company. No. 131,093; May 4; v. 274; p. 196.
Flour, Wheat-. G. H. Dulle Milling Co. No. 133,957; Aug. 10; v. 277; p. 387.
Flour, Wheat-. El Reno Mill & Elevator Co. No. 137,213; Nov. 23; v. 280; p. 793.
Flour, Wheat-. Federal Milling Company. No. 128,876; Jan. 6; v. 270; p. 180.
Flour, Wheat-. Galbraith Milling Company. No. 130,725; May 4; v. 274; p. 185.
Flour, Wheat-. Gladney Milling Company. No. 131,123; May 4; v. 274; p. 197.
Flour, Wheat-. Gladney Milling Company. No. 134,956; Sept. 21; v. 278; p. 531.
Flour, Wheat-. Goers Flour Mills Co. No. 129,160; Jan. 27; v. 270; p. 614.
Flour, Wheat-. Holmes and Barnes. No. 129,002; Jan. 20; v. 270; p. 473.
Flour, Wheat-. Holmes and Barnes. No. 132,996; June 8; v. 275; p. 414.
Flour, Wheat-. Holt & Company. No. 136,468; Nov. 2; v. 280; p. 182.
Flour, Wheat-. Hormel Milling Company. No. 134,246; Aug. 24; v. 277; p. 278.
Flour, Wheat-. Hornor-Gaylord Company. No. 131,141; May 4; v. 274; p. 197.
Flour, Wheat-. Hoyland Flour Mills Company. No. 138,027; Dec. 14; v. 281; p. 398.
Flour, Wheat-. International Milling Company. No. 131,910; May 25; v. 274; p. 836.
Flour, Wheat-. International Milling Company. No. 132,001; June 8; v. 275; p. 414.
Flour, Wheat-. International Milling Company. No. 132,179; June 15; v. 275; p. 618.
Flour, Wheat-. Jensen & Sons Milling & Grain Co. No. 128,741; Jan. 13; v. 270; p. 339.
Flour, Wheat-. "John R" Mills Company. No. 129,378; Feb. 17; v. 271; p. 508.
Flour, Wheat-. Kehlor Flour Mills Co. No. 128,413; Jan. 6; v. 270; p. 181.
Flour, Wheat-. M. J. Kouri. No. 129,010; Jan. 20; v. 270; p. 474.
Flour, Wheat-. The Larabee Flour Mills Corporation. Nos. 136,850–3; Nov. 9; v. 280; p. 380.
Flour, Wheat-. The Larabee Flour Mills Corporation. No. 138,048; Dec. 14; v. 281; p. 399.
Flour, Wheat-. Lawrenceburg Roller Mills Co. No. 132,986; July 6; v. 276; p. 202.
Flour, Wheat-. J. F. Lennon. No. 130,084; Apr. 6; v. 273; p. 180.
Flour, Wheat-. J. F. Lennon. No. 131,531; May 18; v. 274; p. 605.
Flour, Wheat-. The Longmont Farmers Milling & Elevator Co. No. 133,726; Aug. 3; v. 277; p. 174.
Flour, Wheat-. The Longmont Farmers Milling & Elevator Co. No. 138,055; Dec. 14; v. 281; p. 399.
Flour, Wheat-. Lyon & Greenleaf Co. No. 132,733; June 29; v. 275; p. 1017.
Flour, Wheat-. Geo. H. McFadden & Bro. No. 129,369; Feb. 17; v. 271; p. 508.
Flour, Wheat-. The Mennel Milling Company. No. 131,551; May 18; v. 274; p. 606.
Flour, Wheat-. The Mennel Milling Company. No. 138,064; Dec. 14; v. 281; p. 399.
Flour, Wheat-. The Mid-West Milling Company. No. 129,376; Feb. 17; v. 271; p. 508.
Flour, Wheat-. The Mid-West Milling Company. No. 136,103; Oct. 26; v. 279; p. 721.
Flour, Wheat-. Miller Flour Mills. No. 138,066; Dec. 14; v. 281; p. 399.
Flour, Wheat-. The Millers Milling Company. No. 136,275; Oct. 26; v. 279; p. 728.
Flour, Wheat-. Millers Milling Company. No. 137,916; Dec. 7; v. 281; p. 201.
Flour, Wheat-. M. Mills. No. 131,188; May 4; v. 274; p. 199.
Flour, Wheat-. J. Moskowitz. No. 134,035; Aug. 10; v. 277; p. 389
Flour, Wheat- Nashville Roller Mills. No. 130,839; May 4; v. 274; p. 188.
Flour, Wheat-. Nashville Roller Mills. No. 131,194; May 4; v. 274; p. 199.
Flour, Wheat-. Nashville Roller Mills. No. 134,039; Aug. 10; v. 277; p. 389.
Flour, Wheat-. Northwestern Consolidated Milling Company. No. 129,036; Jan. 20; v. 270; p. 475.

Digitized by Google

Flour, Wheat-. Omaha Flour Mills Co. Nos. 129,038–40; Jan. 20; v. 270; p. 475.
Flour, Wheat-. Omaha Flour Mills Co. Nos. 134,048–9; Aug. 10; v. 277; p. 389.
Flour, Wheat-. Omaha Flour Mills Co. No. 134,423; Aug. 31; v. 277; p. 973.
Flour, Wheat-. Ottawa Milling Company. No. 129,199; Jan. 27; v. 270; p. 615.
Flour, Wheat-. Partalis & Co. Nos. 136,158–9; Oct. 26; v. 279; p. 723.
Flour, Wheat-. Pillsbury Flour Mills Company. No. 136,588; Nov. 2; v. 280; p. 186.
Flour, Wheat-. Prange Milling Company. No. 136,588; Nov. 2; v. 280; p. 186.
Flour, Wheat-. Quaker City Flour Mills Company. No. 128,829; Jan. 13; v. 270; p. 342.
Flour, Wheat-. Rafael del Castillo & Co. No. 130,668; May 4; v. 274; p. 183.
Flour, Wheat-. The Raymond Hadley Corporation. No. 137,380; Nov. 23; v. 280; p. 797.
Flour, Wheat-. Red Star Milling Company. No. 129,059; Jan. 20; v. 270; p. 475.
Flour, Wheat-. Reno Flour Mills Company. No. 128,831; Jan. 13; v. 270; p. 342.
Flour, Wheat-. Reno Flour Mills Company. No. 129,389; Feb. 17; v. 271; p. 509.
Flour, Wheat-. Rice Cereal Company. No. 130,228; Apr. 13; v. 273; p. 403.
Flour, Wheat-. Riverside Mill Company. No. 135,310; Sept. 28; v. 278; p. 704.
Flour, Wheat-. Roanoke City Mills. No. 129,062; Jan. 20; v. 270; p. 475.
Flour, Wheat-. Roanoke City Mills. No. 130,891; May 4; v. 274; p 190.
Flour, Wheat-. Robin Hood Mills, Limited. No. 134,431; Aug. 31; v. 277; p. 974.
Flour, Wheat-. Robinson Milling Co. No. 130,280; Apr. 13; v. 273; p. 403.
Flour, Wheat-. The Robinson Milling Co. No. 130,894; May 4; v. 274; p. 190.
Flour, Wheat-. J. Rosenstein. No. 128,838; Jan. 13; v. 270; p. 343.
Flour, Wheat-. J. Rosenstein. No. 129,212; Jan. 27; v. 270; p. 616.
Flour, Wheat-. J. Rosenstein. No. 131,227; May 4; v. 274; p. 200.
Flour, Wheat-. Sano Milling and Manufacturing Co. No. 138,106; Dec. 14; v. 281; p. 400.
Flour, Wheat-. Schwartz & Ferry. Nos. 136,619–20; Nov. 2; v. 280; p. 187.
Flour, Wheat-. The Scott County Milling Company. No. 133,038; July 6; v. 276; p. 204.
Flour, Wheat-. The Scott County Milling Company. No. 137,694; Nov. 30; v. 280; p. 1000.
Flour, Wheat-. Sparks Milling Company. No. 131,240; May 4; v. 274; p. 200.
Flour, Wheat-. Sperry Flour Company. No. 130,412; Apr. 20; v. 273; p. 628.
Flour, Wheat-. Spokane Meelmolens (Spokane Flour Mills.) No. 135,341; Sept. 28; v. 278; p. 705.
Flour, Wheat-. Spokane Meelmolens (Spokane Flour Mills.) No. 136,638; Nov. 2; v. 280; p. 188.
Flour, Wheat-. St. Elmo Milling Co. No. 136,949; Nov. 9; v. 280; p. 383.
Flour, Wheat-. Stokes Milling Co. No. 130,933; May 4; v. 274; p. 191.
Flour, Wheat-. W. P. Tanner-Gross & Company, Inc. No. 130,942; May 4; v. 274; p. 191.
Flour, Wheat-. W. P. Tanner-Gross & Company. No. 131,634; May 18; v. 274; p. 609.
Flour, Wheat-. W. P. Tanner-Gross & Company. No. 132,831; June 29; v. 275; p. 1020.
Flour, Wheat-. W. P. Tanner-Gross & Company. No. 133,056; July 6; v. 276; p. 204.
Flour, Wheat-. W. P. Tanner-Gross & Company. No. 136,210; Oct. 26; v. 279; p. 725.
Flour, Wheat-. The Theobald Flour Mills Co. Nos. 136,213–4; Oct. 26; v. 279; p. 725.
Flour, Wheat-. Washburn Crosby Co. No. 131,665; May 18; v. 274; p. 610.
Flour, Wheat-. Washburn Crosby Co. No. 132,857; June 29; v. 275; p. 1020.
Flour, Wheat-. Washburn Crosby Co. Nos. 133,943–4; Aug. 10; v. 277; p. 386.
Flour, Wheat-. Washburn-Crosby Company. Nos. 134,293–7; Aug. 24; v. 277; p. 779.
Flour, Wheat-. Washburn Crosby Company. No. 135,850; Oct. 19; v. 279; p. 533.
Flour, Wheat-. Washburn Crosby Co. Nos. 136,250–1; Oct. 26; v. 279; p. 726.
Flour, Wheat-. Washburn Crosby Co. No. 136,982; Nov. 9; v. 280; p. 384.
Flour, Wheat-. Mrs. M. Weltin. No. 136,691; Nov. 2; v. 280; p. 189.
Flour, Wheat-. Western Flour Mill Co. No. 137,414; Nov. 23; v. 280; p. 798.
Flour, Wheat-. Wichita Mill & Elevator Company. Nos 134,137–8; Aug. 10; v. 277; p. 392.
Flour, Wheat-. Wilmarth and Rice. No. 134,140; Aug. 10; v. 277; p. 392.
Flour, Wheat and buckwheat. Bay City Milling Company. No. 134,218; Aug. 24; v. 277; p. 777.
Flour, Wheat and pancake. O. W. Evertts. No. 132,675; June 29; v. 275; p. 1015.
Flour, Wheat and self-rising wheat. City Mills Company. Nos. 134,227–8; Aug. 24; v. 277; p. 777
Flour, wheat cereal, &c., Buckwheat pancake-. Pillsbury Flour Mills Company. No. 130,389; Apr. 20; v. 273; p. 628.
Flour, wheat cereal, rolled oats, &c., Buckwheat pancake-. Pillsbury Flour Mills Company. No. 135,302; Sept. 28; v. 278; p. 704.
Flours. Francis H. Leggett & Co. No. 129,017; Jan. 20; v. 270; p. 474.
Flours, &c. McKenzie Milling Company. No. 135,737; Oct. 19; v. 279; p. 529.
Flours and cereal breakfast foods. Portland Flouring Mills Company. No. 128,487; Jan. 6; v. 270; p. 183.
Food and ingredients of foods. Indian Packing Company. No. 129,754; Mar. 9; v. 272; p. 364.
Flours and meals for making dietetic foods. Dietetic Cellulose Company. No. 133,954; Aug. 10; v. 277; p. 387.
Flours, Wheat and rye. W. P. Tanner-Gross & Company. Nos. 134,099–102; Aug. 10; v. 277; p. 391.
Flowers, Artificial. R. J. Munn & Bros. No. 134,321; Aug. 24; v. 277; p. 781.
Fluid, Embalming. The Embalmers' Supply Company. No. 131,458; May 18; v. 274; p. 603.
Fluid the scent of which attracts animals and used as a bait, Chemically-compounded. Federal Fur & Wool Company. No. 132,676; June 29; v. 275; p. 1015.
Flush-tank and water-closet fittings. Indiana Brass Company. No. 136,046; Oct. 26; v. 279; p. 720.
Flying-machines, balloons, &c. Handley Page Limited. No. 131,993; June 8; v. 275; p. 414.
Folders, Advertising-. Bert L. White Company. No. 134,132–3; Aug. 10; v. 277; p. 392.
Food. Keystone Instant Food Company. No. 136,055; Oct. 26; v. 279; p. 720.
Food. Leota Food Products Co. No. 134,011; Aug. 10; v. 277; p. 388.
Food and ingredients of foods. Maine Pickling Co. No. 138,060; Dec. 14; v. 281; p. 399.
Food, Articles of. Kingan & Company. No. 138,041; Dec. 14; v. 281; p. 398.
Food, Baby-. V. J. Hoyt. No. 136,470; Nov. 2; v. 280; p. 183.
Food, Breakfast. Chas. A. Krause Milling Co. No. 130,581; Apr. 27; v. 273; p. 803.
Food, Cattle. J. J. Badenoch Co. No. 129,123; Jan. 27; v. 270; p. 613.
Food, Cereal breakfast. Patent Cereals Company. No. 128,815; Jan. 13; v. 270; p. 342.
Food, Cereal breakfast. Patent Cereals Company. No. 129,044; Jan. 20; v. 270; p. 475.
Food, Cereal breakfast. I. Shaw. No. 135,532; Oct. 12; v. 279; p. 345.
Food, Chilli-. U. Urbany. No. 134,109; Aug. 10; v. 277; p. 391.
Food-choppers, combination meat and food cutters, &c. Griswold Manufacturing Company. No. 133,135; July 13; v. 276; p. 402.
Food-colors. National Aniline & Chemical Company, Inc. Nos. 131,558–61; May 18; v. 274; p. 606.
Food compound, Vegetable. P. Kleckner. No. 130,196; Apr. 13; v. 273; p. 402.
Food, Concentrated. U. S. Emergency Ration Corp. No. 132,844; June 29; v. 275; p. 1020.
Fuels containing alcohol and liquid fuels containing alcohol and hydrocarbon. U. S. Industrial Alcohol Co. No. 130,020; Mar. 23; v. 272; p. 781.
Food, Dairy, stock, &c. The Buckeye Cotton Oil Company. No. 136,339; Nov. 2; v. 280; p. 178.
Food, Dairy, stock, cattle, &c. The Buckeye Cotton Oil Company. No. 135,927; Oct. 26; v. 279; p. 716.
Food-drink. L. Fultz, Jr., E. L. McKenzie, and F. W. Korsmeyer. No. 137,026; Nov. 16; v. 280; p. 583.
Food for calves. Martin Calf Feed Company. No. 136,531; Nov. 2; v. 280; p. 184.
Food for hogs, Mixed. Park & Pollard Company. No. 132,479; June 22; v. 275; p. 821.
Food for live stock, Medicated. Parsons Chemical Works. No. 130,861; May 4; v. 274; p. 189.
Food for poultry; &c., Scratch. S. A. Rogers Co. No. 134,074; Aug. 10; v. 277; p. 390.
Food for stock. Great Western Milling Company. No. 138,457; Dec. 28; v. 281; p. 782.
Food for stock. Great Western Milling Company. No. 138,459; Dec. 28; v. 281; p. 782.
Food, Infants'. Mead Johnson & Co. No. 136,485; Nov. 2; v. 280; p. 183.
Food ingredients. Benchley Brothers. No. 137,769; Dec. 7; v. 281; p. 195.
Food, Liquid. Kremo-lac Co. No. 136,060; Oct. 26; v. 279; p. 720.
Food paste. G. Kahan. No. 131,146; May 4; v. 274; p. 197.
Food, Poultry. Brooks Co. No. 138,535; Dec. 28; v. 281; p. 785.
Food, Poultry. The Buckeye Cotton Oil Company. No. 135,928; Oct. 26; v. 279; p. 716.
Food, Poultry. The Buckeye Cotton Oil Company. No. 136,338; Nov. 2; v. 280; p. 178.
Food, Poultry. Sperry Flour Company. Nos. 128,523–4; Jan. 6; v. 270; p. 184.

Digitized by Google

Food, Poultry and stock. Maritime Trading Corporation. No. 138,061; Dec. 14; v. 281; p. 399.
Food powder. S. Gumpert & Co. No. 133,984; Aug. 10; v. 277; p. 388.
Food preparation, Meat substitute. C. F. Schobert. No. 129,892; Feb. 17; v. 271; p. 509.
Food preparation or conserve. William Simpson (Manchester). No. 136,934; Nov. 9; v. 280; p. 383.
Food, Prepared. James A. Aicardi & Sons. No. 131,686; May 25; v. 274; p. 829.
Food product in solution for infants, &c. Fairchild Bros. & Foster. No. 133,960; Aug. 10; v. 277; p. 387.
Food products. California Central Creameries. No. 138,536; Dec. 28; v. 281; p. 785.
Food products. Fleitmann, Watjen & Co. No. 128,381; Jan. 6; v. 270; p. 180.
Food products. Kabisch & Co., Inc. No. 135,567; Oct. 12; v. 279; p. 847.
Food products. Price Specialty Company. No. 137,376; Nov. 23; v. 280; p. 797.
Food products. W. R. Roach & Co. No. 133,799; Aug. 3; v. 277; p. 176.
Food products. West Indies Importing Co. No. 137,413; Nov. 23; v. 280; p. 798.
Food products in tins, &c. Purity Cross, Inc. No. 128,828; Jan. 13; v. 270; p. 842.
Food products, Pure. W. Diehnelt. No. 137,196; Nov. 23; v. 280; p. 792.
Food, Stock. F. K. Chandler. No. 138,434; Dec. 28; v. 281; p. 781.
Food, Stock. Faber & Company. No. 135,238; Sept. 28; v. 278; p. 702.
Food, Stock. Sperry Flour Company. No. 128,522; Jan. 6; v. 270; p. 184.
Food, Stock and poultry. Maritime Trading Corporation. No. 135,484; Oct. 12; v. 279; p. 844.
Food used in the feeding of infants, Prepared milk. The Babies Dispensary & Hospital of Cleveland. No. 135,195; Sept. 28; v. 278; p. 701.
Foods. Austin, Nichols & Company. No. 130,630; May 4; v. 274; p. 182.
Foods. The Basket Stores Co. Nos. 128,303–4; Jan. 6; v. 270; p. 178.
Foods. T. Baurier. No. 136,667; Nov. 2; v. 280; p. 189.
Foods. The Borden Company. Nos. 137,954–5; Dec. 14; v. 281; p. 396.
Foods. D. E. Brooks & Co. No. 128,316; Jan. 6; v. 270; p. 178.
Foods. I. Burger, Inc. Nos. 133,921–2; Aug. 10; v. 277; p. 386.
Foods. California Packing Corporation. No. 137,963; Dec. 14; v. 281; p. 396.
Foods. Chapman & Smith Company. No. 133,930; Aug. 10; v. 277; p. 386.
Foods. Cheri, Inc. No. 130,474; Apr. 27; v. 273; p. 801.
Foods. Cresca Company. No. 128,964; Jan. 20; v. 270; p. 472.
Foods. Finley Acker Co. Nos. 135,993–4; Oct. 26; v. 279; p. 718.
Foods. H. Foersterling. No. 130,178; Apr. 13; v. 273; p. 402.
Foods. Gould, Wells & Blackburn Co. No. 133,980; Aug. 10; v. 277; p. 387.
Foods, &c. Haas, Baruch & Co. No. 130,312; Apr. 20; v. 273; p. 620.
Foods. R. Haughton. Nos. 136,026–7; Oct. 26; v. 279; p. 719.
Foods. International Vegetable Oil Company. No. 136,479; Nov. 2; v. 280; p. 183.
Foods. Jacob Dold Packing Co. Nos. 137,198–9; Nov. 23; v. 280; p. 792.
Foods. Jacob Dold Packing Co. No. 137,203; Nov. 23; v. 280; p. 792.
Foods. John Blaul's Sons Co. No. 137,951; Dec. 14; v. 281; p. 396.
Foods. John R. Thompson Co. No. 134,288; Aug. 24; v. 277; p. 779.
Foods. S. Mervis. No. 136,536; Nov. 2; v. 280; p. 184.
Foods. Mexican Products Corporation. No. 134,028; Aug. 10; v. 277; p. 389.
Foods. Odelsa Mfg. Co. No. 134,260; Aug. 24; v. 277; p. 778.
Foods. Oscar F. Mayer & Bro. No. 134,025; Aug. 10; v. 277; p. 389.
Foods. The Patent Cereals Co. No. 136,890; Nov. 9; v. 280; p. 382.
Foods. Plainwell Canning & Preserving Company. No. 130,224; Apr. 13; v. 273; p. 403.
Foods. Purepakt Products Company. No. 134,068; Aug. 10; v. 277; p. 390.
Foods. W. S. Quinby Company. No. 138,520; Dec. 28; v. 281; p. 784.
Foods. Rogers Brown & Company. No. 137,131; Nov. 23; v. 280; p. 790.
Foods. D. P. Stores Company. No. 136,203; Oct. 26; v. 279; p. 724.
Foods. Tennessee Biscuit Company. No. 138,139; Dec. 14; v. 281; p. 401.
Foods. Tolerton & Warfield Co. No. 130,239; Apr. 13; v. 273; p. 404.
Foods, &c. Union Pacific Tea Co. No. 130,428; Apr. 20; v. 273; p. 624.
Foods. United Wholesale Grocery Co. No. 134,115; Aug. 10; v. 277; p. 391.
Foods. Wilson & Co. No. 130,446; Apr. 20; v. 273; p. 624.
Foods. Wolf & Bird. No. 132,867; June 29; v. 275; p. 1021.
Foods and buckwheat flour, Breakfast cereal. Wolff Brothers. No. 131,272; May 4; v. 274; p. 201.
Foods and food ingredients. A. Engelhard & Sons Company. Nos. 136,411–12; Nov. 2; v. 280; p. 181.
Foods and food ingredients. A. Engelhard & Sons Company. No. 137,997; Dec. 14; v. 281; p. 397.
Foods and ingredients. Willits & Green. No. 138,162; Dec. 14; v. 281; p. 402.
Foods and ingredients of foods. S. D. Abrams. No. 130,143; Apr. 13; v. 273; p. 401.
Foods and ingredients of foods. American Products Co. No. 130,613; May 4; v. 274; p. 181.
Foods and ingredients of food. Borden's Farm Products Company. No. 128,942; Jan. 20; v. 270; p. 472.
Foods and ingredients of foods. Basket Stores Company. Nos. 133,905–6; Aug. 10; v. 277; p. 385.
Foods and ingredients of food. The Borden Company. No. 130,647; May 4; v. 274; p. 182.
Foods and ingredients of foods. I. Burger. No. 130,160; Apr. 13; v. 273; p. 401.
Foods and ingredients of food. Globe Grocery Stores. No. 128,985; Jan. 20; v. 270; p. 473.
Foods and ingredients of foods. Grand Union Tea Co. No. 130,504. Apr. 27; v. 273; p. 802.
Foods and ingredients of foods. Haas, Baruch & Co. No. 134,369; Aug. 31; v. 277; p. 972.
Foods and ingredients of foods. Y. Hattori. No. 132,407; June 22; v. 275; p. 819.
Foods and ingredients of foods. John A. Thompson Co. No. 132,835; June 29; v. 275; p. 1020.
Foods and ingredients of foods. Julius Wile Sons & Co. No. 132,590; June 22; v. 275; p. 825.
Foods and ingredients of foods. O. F. Mayer & Bros. No. 133,741; Aug. 3; v. 277; p. 175.
Foods and ingredients of foods. Retail Grocers Syndicate. No. 131,217; May 4; v. 274; p. 199.
Foods and ingredients of foods. Walker-Matteson Company. No. 132,578; June 22; v. 275; p. 824.
Foods and ingredients of foods. Walker-Matteson Company. No. 132,855; June 29; v. 275; p. 1020.
Foods and ingredients of foods. Wellman-Peck & Co. No. 131,386; May 11; v. 274; p. 402.
Foods and ingredients of foods. Western Grocer Company. No. 131,268; May 4; v. 274; p. 201.
Foods and ingredients of foods. William Davies Company. No. 128,965; Jan. 20; v. 270; p. 472.
Foods and ingredients of food. William Davies Company. No. 128,967; Jan. 20; v. 270; p. 472.
Foods, Animal. J. B. Rosefield. No. 138,102; Dec. 14; v. 281; p. 400.
Foods, Breakfast. V. D. Lersch. No. 134,251; Aug. 24; v. 277; p. 778.
Foods, Cereal. J. D. Wirt. No. 134,867; Sept. 14; v. 278; p. 368.
Foods, Certain named. G. F. Jefferson. No. 132,003; June 8; v. 275; p. 414.
Foods, Certain named. Libby, McNeill & Libby. Nos. 132,012–3; June 8; v. 275; p. 415.
Foods, Certain named. Waples-Platter Grocer Company. No. 132,067; June 8; v. 275; p. 416.
Foods, drugs, and chemicals, Machinery and appliances used in their manufacture. Petri and Jones Company. No. 134,187; Aug. 17; v. 277; p. 582.
Foods for hogs, cattle, sheep, and poultry. Hansen Livestock & Feeding Company. No. 128,398; Jan. 6; v. 270; p. 180.
Foods for stock-feeding purposes. Animal and vegetable fats, &c. Naamlooze Vennootschap Anton Jurgens' Margarinefabrieken. No. 138,070; Dec. 14; v. 281; p. 399.
Foods, Infants', &c. Hensch Food Company. No. 131,136; May 4; v. 274; p. 197.
Foods, Infants'. United Drug Company. No. 134,113; Aug. 10; v. 277; p. 391.
Foods, particularly bird-seed, Animal. R. T. Harding. No. 134,371; Aug. 31; v. 277; p. 972.
Foods, Prepared sea-. Charles Noble, Jr., Company. No. 133,174; July 13; v. 276; p. 403.
Foods, Preserved or partially or wholly prepared. International Preserving Corporation. No. 130,526; Apr. 27; v. 273; p. 803.
Foods, Sea. Neptune Fisheries. No. 133,962; Aug. 10; v. 277; p. 387.
Foods, Stock, poultry, and dog. Randall-McLoughlin Co. No. 129,207; Jan. 27; v. 270; p. 616.
Foot-pads. A. B. Plummer. No. 130,390; Apr. 20; v. 273; p. 623.
Footwear. Dorothy Dodd Shoe Company. No. 135,368; Sept. 28; v. 278; p. 707.
Footwear. The Irving Drew Company. No. 129,169; Jan. 27; v. 270; p. 615.
Footwear. P. H. Volk. No. 131,872; May 25; v. 274; p. 835.
Forging and castings, Steel. H. Cadwallader, Jr. No. 128,645; Jan. 13; v. 270; p. 336.
Forgings, Heat-treated. Heppenstall Forge and Knife Company. No. 134,171; Aug. 17; v. 277; p. 581.

Digitized by Google

Alphabetical list of trade-marks—Continued.

Forgings, Iron and steel. Forged Products Co. No. 128,698; Jan. 13; v. 270; p. 338.
Forgings, Steel. Sizer Forge Company. No. 131,622; May 18; v. 274; p. 608.
Forgings, Steel. Sizer Forge Company. No. 132,530; June 22; v. 275; p. 823.
Forgings, Steel drop. Anderson Forge & Machine Company. No. 133,568; Aug. 3; v. 277; p. 169.
Formaldehyde, Sulfoxalate of sodium. Rohm & Haas Company. No. 131,600; May 18; v. 274; p. 608.
Forms, Printed blank. P. S. Warner. No. 138,522; Dec. 28; v. 281; p. 784.
Foundry supplies, molding-machines and parts thereof. The Cleveland Osborn Manufacturing Company. No. 135,954; Oct. 26; v. 279; p. 717.
Fountains for poultry and feed-hoppers for stock and poultry, Watering. W. A. McCullough & Sons. No. 134,410; Aug. 31; v. 277; p. 973.
Frame-linings, Anti-squeak. Charles Bond Company. No. 133,586; Aug. 3; v. 277; p. 170.
Freckle-bleach, massage, and astringent creams. W. A. Woolf. No. 129,567; Feb. 24; v. 271; p. 682.
Freighting outfits. The Holt Manufacturing Company. No. 137,035; Nov. 16; v. 280; p. 583.
Frocks and rompers, Children's. Phorylles & Sperber. No. 136,153; Oct. 26; v. 279; p. 723.
Frocks for children. D. M. Stanford. No. 138,349; Dec. 21; v. 281; p. 567.
Frocks, wash and woolen suits, &c., Children's. Miller & Macowsky. No. 135,752; Oct. 19; v. 279; p. 530.
Frosting for glass, china, &c. L. Reusche & Company. No. 128,832; Jan. 13; v. 270; p. 342.
Fruit and fresh vegetables. Atlantic Coast Distributors. No. 132,882; July 6; v. 276; p. 199.
Fruit and peanut butters, jams, jellies. The Buckeye Producing Co. No. 135,929; Oct. 26; v. 279; p. 716.
Fruit, Fresh. E. E. Connery. No. 131,293; May 11; v. 274; p. 399.
Fruit, Fresh citrus. Anaheim Orange & Lemon Assn. No. 137,093; Nov. 23; v. 280; p. 789.
Fruit, Fresh citrus. Florence Citrus Growers Association. Nos. 137,225–6; Nov. 23; v. 280; p. 793.
Fruit, Fresh citrus. W. E. Lee. No. 136,068; Oct. 26; v. 279; p. 720.
Fruit, Fresh citrus. Old Baldy Citrus Association. Nos. 137,842–4; Dec. 7; v. 281; p. 197.
Fruit-juice extractors. Blessing Mfg. Co. No. 136,758; Nov. 9; v. 280; p. 377.
Fruit-juices. Normandie Company. Nos. 129,032–33; Jan. 20; v. 270; p. 474.
Fruit—namely, grape-fruit, Citrus. J. W. Reed. No. 134,071; Aug. 10; v. 277; p. 390.
Fruit preserves, jam, canned salmon. A. Rupert Company. No. 134,078; Aug. 10; v. 277; p. 390.
Fruit preserves, table-syrup, orange-peel. Eatsum Products Corporation. No. 132,133; June 15; v. 275; p. 616.
Fruits. F. L. Granger. No. 134,368; Aug. 31; v. 277; p. 972.
Fruits and avocados, Citrus. J. H. Derby. No. 131,442; May 18; v. 274; p. 602.
Fruits and vegetables, Fresh. Mexico Arizona Trading Company. No. 134,414; Aug. 31; v. 277; p. 973.
Fruits, canned vegetables, &c., Canned and preserved. Griggs, Cooper & Company. No. 131,989; June 8; v. 275; p. 414.
Fruits, Citrus. Goldenwest Citrus Ass'n. No. 134,367; Aug. 31; v. 277; p. 972.
Fruits, Citrus. Lake Wales Citrus Growers Association. No. 130,387; Apr. 20; v. 273; p. 621.
Fruits, Citrus. Placentia Mutual Orange Association. No. 134,066; Aug. 10; v. 277; p. 390.
Fruits, Citrus. Polk County Citrus Sub-Exchange. No. 128,819; Jan. 13; v. 270; p. 342.
Fruits, Citrus. Stripes Citrus Packing Co. No. 134,442; Aug. 31; v. 277; p. 974.
Fruits, Citrus and fresh. L. Powers. No. 134,268; Aug. 24; v. 277; p. 778.
Fruits, Citrus and fresh. L. K. Small Company. No. 137,459; Nov. 23; v. 280; p. 800.
Fruits, Dried. Seggerman Bros. No. 134,083; Aug. 10; v. 277; p. 391.
Fruits, Flaked and cooked. Shepard Fruit Products Company. No. 137,449; Nov. 23; v. 280; p. 800.
Fruits, Fresh. J. E. Bartlett & Sons. No. 132,625; June 29; v. 275; p. 1013.
Fruits, Fresh. Cloud-Thomas Co. No. 130,674; May 4; v. 274; p. 183.
Fruits, Fresh. Furry Fruit & Produce Co. No. 130,300; Apr. 20; v. 273; p. 620.
Fruits, Fresh. Jones & Pettigrew. No. 134,249; Aug. 24; v. 277; p. 778.
Fruits, Fresh. W. E. Lee. Nos. 136,066–7; Oct. 26; v. 279; p. 720.
Fruits, Fresh. T. P. Lippitt. No. 128,481; Jan. 6; v. 270; p. 181.
Fruits, Fresh. Myers, Darling & Hinton Co. No. 137,044; Nov. 16; v. 280; p. 584.
Fruits, Fresh citrus. A. S. Bradford. No. 128,944; Jan. 20; v. 270; p. 472.
Fruits, Fresh citrus. M. Latimer. No. 131,345; May 11; v. 274; p. 401.
Fruits, Fresh citrus. Lake Reedy Packing Co. Nos. 130,532–3; Apr. 27; v. 273; p. 803.
Fruits, Fresh citrus. T. H. Peppers. No. 128,817; Jan. 13; v. 270; p. 342.
Fruits, Fresh citrus. Polk County Citrus Sub-Exchange. No. 129,202; Jan. 27; v. 270; p. 616.
Fruits, Fresh citrus. Ryan Fruit Company. No. 130,399; Apr. 20; v. 273; p. 623.
Fruits, Fresh citrus. South Lake Apopka Citrus Growers Assn. No. 128,861; Jan. 13; v. 270; p. 343.
Fruits, Fresh citrus. Tapo Citrus Ass'n. No. 128,536; Jan. 6; v. 270; p. 185.
Fruits, Fresh citrus. Whittier Citrus Association. No. 128,577; Jan. 6; v. 270; p. 186.
Fruits, jellies, jams, &c., Preserved. Gordon & Dilworth. No. 133,978; Aug. 10; v. 277; p. 387.
Fruits, jellies, jams, &c., Preserved and canned. Gordon & Dilworth. Nos. 131,984–5; June 8; v. 275; p. 414.
Fruits—namely, cantaloups—Fresh. R. Krasnow & Sons. No. 137,297; Nov. 23; v. 280; p. 795.
Fruits—namely, grapes, Fresh. V. D. Whitmore. No. 131,257; May 4; v. 274; p. 201.
Fruits—namely, grapes, Fresh. C. Wilson. No. 134,299; Aug. 24; v. 277; p. 779.
Fruits, Preserved. B. Smallwood. No. 130,577; Apr. 27; v. 273; p. 805.
Fruits, Preserved and pickled. Powell Preserving Co. No. 137,374; Nov. 23; v. 280; p. 797.
Fruits, vegetables, Fresh citrus. Goulds Fruit & Vegetable Growers Association. No. 137,616; Nov. 30; v. 280; p. 998.
Fudge and penochi. A. Eaton. No. 131,901; May 25; v. 274; p. 836.
Fuel-burners for solidified alcohol. Basic Products Corporation. No. 131,958; June 8; v. 275; p. 413.
Fuel control for internal-combustion engines. Berry & Lewis. No. 128,627; Jan. 13; v. 270; p. 336.
Fuel for internal-combustion engines, Liquid. G. W. Woolley. No. 135,365; Sept. 28; v. 278; p. 706.
Fuel-ignition substance. O. Morgenthal. No. 128,794; Jan. 13; v. 270; p. 341.
Fuel made of coal, Powdered. Powdered Coal Engineering & Equipment Company. No. 130,225; Apr. 13; v. 273; p. 403.
Fuel-saving attachments, Metallic. United States Fuel-Saving Equipments Corporation. No. 136,232; Oct. 26; v. 279; p. 725.
Fuel-registers of internal-combustion engines. Vacuumeter Co. No. 128,556; Jan. 6; v. 270; p. 185.
Fuel to be used like coal, Artificial. G. Nikolow. No. 138,078; Dec. 14; v. 281; p. 399.
Fumigating compound. Fumigo Manufacturing Co. No. 137,233; Nov. 23; v. 280; p. 793.
Fumigating-liquid. Swine Breeders' Service. No. 138,518; Dec. 28; v. 281; p. 784.
Fur coats, scarfs, and muffs. Rosenberg Bros. No. 138,503; Dec. 28; v. 281; p. 784.
Fur, Imitation. A. B. Schneider. No. 134,796; Sept. 14; v. 278; p. 860.
Furs. Kalish & Miller. No. 138,036; Dec. 14; v. 281; p. 398.
Furs, Dressed. Philip A. Singer & Bro. No. 130,920; May 4; v. 274; p. 190.
Furs, Dyed. H. Fischer. No. 135,441; Oct. 12; v. 279; p. 343.
Furs, Raw. Reliance Fur Dyeing Inc. No. 134,778; Sept. 14; v. 278; p. 359.
Furs, skins, hides, and pelts. International Fur Exchange. No. 137,628; Nov. 30; v. 280; p. 998.
Furnace, Air-heating. P. C. De Vol Hardware Company. No. 130,173; Apr. 13; v. 273; p. 402.
Furnace structures, Refractory lining for. Quigley Furnace Specialties Co. No. 133,304; July 20; v. 276; p. 592.
Furnaces. Homer Furnace Company. No. 136,832; Nov. 9; v. 280; p. 380.
Furnaces. Rock Island Stove Company. No. 132,043; June 8; v. 275; p. 416.
Furnaces, Annealing, tempering, forging, metallurgical, &c. The Strong Carlisle & Hammond Company. No. 134,826; Sept. 14; v. 278; p. 361.
Furnaces, burners, and torches, Gas soldering and soft-metal. Charles A. Hones, Inc. No. 134,382; Aug. 31; v. 277; p. 972.
Furnaces, Hot-air. Community Furnace Company. No. 128,657; Jan. 13; v. 270; p. 337.
Furnishing goods, hosiery, and notions, Men's and ladies'. Shushan Bros. & Co. No. 133,040; July 6; v. 276; p. 204.
Furnishing goods, Men's, women's, and children's. The Plant Company. No. 138,498; Dec. 28; v. 281; p. 783.
Furniture. J. S. Blankinship. No. 130,155; Apr. 13; v. 273; p. 401.
Furniture. Chicago Hardware Foundry Company. No. 130,049; Apr. 6; v. 273; p. 179.
Furniture. H. Freedman. No. 134,948; Sept. 21; v. 278; p. 531.
Furniture. Heywood Brothers and Wakefield Company. No. 128,728; Jan. 13; v. 270; p. 339.
Furniture. Hitz, Jacobs & Company. No. 138,024; Dec. 14; v. 281; p. 398.
Furniture. Somma Shops, Inc. No. 134,810; Sept. 14; v. 278; p. 360.
Furniture and automobile-body polishes. I. Kellerman. No. 134,004; Aug. 10; v. 277; p. 388.

Digitized by Google

Furniture and automobile polish. American Povar Corporation. No. 137,533; Nov. 30; v. 280; p. 995.
Furniture and automobile polish. J. T. Pierson. No. 129,384; Feb. 17; v. 271; p. 509.
Furniture and automobile polish or gloss for any woodwork. J. Wexler. No. 136,699; Nov. 2; v. 280; p. 190.
Furniture and automobile polishes. Central Auto Supply Co. No. 131,720; May 25; v. 274; p. 830.
Furniture and woodwork, Polish for. F. A. Rader. No. 133,305; July 20; v. 276; p. 592.
Furniture, automobile, and piano polish. Sun Gloss Polish Co. No. 138,353; Dec. 21; v. 281; p. 567.
Furniture, automobile, &c., polish. The Gem Hammock & Fly Net Company. No. 138,246; Dec. 21; v. 281; p. 564.
Furniture, automobile, &c., polish. A. Zweibach. No. 130,251; Apr. 13; v. 273; p. 404.
Furniture, automobiles, floors, and the like, Liquid polish for. The Worth-More Polish Company. No. 136,994; Nov. 9; v. 280; p. 385.
Furniture, Convertible. T. B. Draper. No. 133,400; July 27; v. 276; p. 768.
Furniture, &c., Metal. The Van Dorn Iron Works Co. No. 136,973; Nov. 9; v. 280; p. 384.
Furniture, Nursery. M. Rice Company. No. 133,501; July 27; v. 276; p. 771.
Furniture, Office. Cutler Desk Co. No. 133,397; July 27; v. 276; p. 768.
Furniture-polish. J. W. Bullen. No. 129,335; Feb. 17; v. 271; p. 507.
Furniture, &c., polish. O. W. Hendry. No. 128,998; Jan. 20; v. 270; p. 473.
Furniture, &c., polish. J. A. Maroulis. No. 129,372; Feb. 17; v. 271; p. 508.
Furniture, &c., polish. Nu-Ray Polish Manufacturing Co. No. 132,467; June 22; v. 275; p. 821.
Furniture-polish. W. T. Rawleigh Company. No. 129,056; Jan. 20; v. 270; p. 475.
Furniture-polish. M. Sherman. No. 134,802; Sept. 14; v. 278; p. 360.
Furniture-polish, Liquid. McComb Brothers. No. 133,731; Aug. 3; v. 277; p. 174.
Furniture, Store. Harvey & Company. No. 137,794; Dec. 7; v. 281; p. 196.
Fuses and cut-outs, Electric. Bussman Manufacturing Company. No. 132,907; July 6; v. 276; p. 200.
Fuses and cut-outs, Electric. Bussmann Manufacturing Company. No. 135,207; Sept. 28; v. 278; p. 701.
Fuses, motors, lamps, &c., Electric. Electrical apparatus, machines, and supplies. No. 134,036; Aug. 10; v. 277; p. 389.
Fuses, Renewable. Pierce Fuse Corporation. No. 136,901; Nov. 9; v. 280; p. 382.
Gages and oil-level indicators, Water-. Michigan Lubricator Company. Nos. 128,786–7; Jan. 13; v. 270; p. 341.
Gages, Float, fluid, and ullage. Stemco Engineering Company. No. 135,820; Oct. 19; v. 279; p. 532.
Game. W. Fuld. No. 130,142; Apr. 6; v. 273; p. 182.
Game. C. H. Hatheway. No. 130,069; Apr. 6; v. 273; p. 180.
Game. Irvin-Smith Company. No. 130,101; Apr. 6; v. 273; p. 181.
Game, Card. H. M. J. Ruch. No. 130,567; Apr. 27; v. 273; p. 804.
Game-board. G. Trippe. No. 137,886; Dec. 7; v. 281; p. 199.
Game, Table ball. A. S. Iles. No. 134,690; Sept. 14; v. 278; p. 356.
Games. Dodo Board Company. No. 136,404; Nov. 2; v. 280; p. 180.
Games. G. C. Dutton. No. 130,488; Apr. 27; v. 273; p. 802.
Games. Embee Distributing Company. No. 135,662; Oct. 19; v. 279; p. 527.
Games. The Weinthrop Company. No. 133,867; Aug. 3; v. 277; p. 179.
Games and game-boards. E. C. Simcox. No. 129,074; Jan. 20; v. 270; p. 476.
Games and toys. The A. C. Gilbert Company. No. 133,132; July 13; v. 276; p. 402.
Games, Card. W. M. Coleman. No. 133,389; July 27; v. 276; p. 768.
Games, Card. F. Hood. No. 132,969; July 6; v. 276; p. 202.
Games, Card. V. E. Soderquist. No. 135,814; Oct. 19; v. 279; p. 532.
Games, game-boards, toy vehicles, &c., Card. Ambler Toy Manufacturing Company. No. 136,736; Nov. 9; v. 280; p. 377.
Games, Jack-straws. Milton Bradley Company. No. 128,945; Jan. 20; v. 270; p. 472.
Games of jackstraws. Milton Bradley Company. No. 131,045; May 4; v. 274; p. 194.
Games, toys, and sporting goods. I. Fuld. No. 132,378; June 22; v. 275; p. 818.
Garages, animal and poultry houses, &c. The Farm Equipment Co. No. 134,359; Aug. 31; v. 277; p. 971.
Garbage-cans, Sanitary. P. Cohen. No. 134,013; Sept. 21; v. 278; p. 530.
Garden implements, Hand. C. S. Norcross & Sons. No. 128,473; Jan. 6; v. 270; p. 183.
Gargle and corn-plasters. J. S. Roach. No. 136,603; Nov. 2; v. 280; p. 187.
Gargle, Antiseptic and anesthetic. V. P. Rupe. No. 132,507; June 22; v. 275; p. 822.
Garment, Convertible outer. H. A. Marll. No. 136,529; Nov. 2; v. 280; p. 184.
Garment-hanger, Combination. Dean & Williams Co. No. 136,397; Nov. 2; v. 280; p. 180.
Garment-hangers, shoe-trees, &c., Decorated hand-painted. Lowe & Lowe. No. 129,180; Jan. 27; v. 270; p. 615.
Garment in the nature of overalls. Happ Brothers Co. No. 137,751; Nov. 30; v. 280; p. 1003.
Garment or wrap, Woman's outer. L. C. Chase & Company. No. 131,721; May 25; v. 274; p. 830.
Garment-pressing machines, Tailors'. F. A. Patrick & Co. No. 136,573; Nov. 2; v. 280; p. 186.
Garment-supports. L. Arons. No. 128,928; Jan. 20; v. 270; p. 471.
Garment with hood, One-piece infant's. Wyman, Partridge & Co. No. 136,995; Nov. 9; v. 280; p. 385.
Garments. Cooper, Coate & Casey Dry Goods Co. No. 128,659; Jan. 13; v. 270; p. 337.
Garments, Boys' outer. Sheahan, Kohn & Co. Nos. 129,395–6; Feb. 17; v. 271; p. 509.
Garments, Certain named. B. Reis. No. 129,527; Feb. 24; v. 271; p. 680.
Garments, except hats, Women's outer. H. Hunvald. No. 133,435; July 27; v. 276; p. 769.
Garments for boys, Outer. Sheahan, Kohn & Co. No. 128,857; Jan. 13; v. 270; p. 343.
Garments for men. National Shirt Shops. No. 130,842; May 4; v. 274; p. 188.
Garments for men and boys. Hirsch, Friedman Co. No. 131,140; May 4; v. 274; p. 197.
Garments for men and women. The Marway Manufacturing Company. No. 129,373; Feb. 17; v. 271; p. 508.
Garments for men, women, and children. F. Simon & Co. No. 130,575; Apr. 27; v. 273; p. 805.
Garments for men, women, and children. S. A. Singer. No. 130,576; Apr. 27; v. 273; p. 805.
Garments for women and children. C. N. Adelmann. No. 133,557; Aug. 3; v. 277; p. 169.
Garments for women and girls, Outer. The House of Finkelstein. No. 138,240; Dec. 21; v. 281; p. 563.
Garments, Infants' and children's. A. Gilman & Son. No. 128,889; Jan. 6; v. 270; p. 180.
Garments, Men's. American Shirt Company. No. 138,216; Dec. 21; v. 281; p. 563.
Garments, Men's and boys' outer. Gonsales Padin Co. No. 129,159; Jan. 27; v. 270; p. 614.
Garments, Men's and children's outer. Cohen, Goldman & Co. No. 131,067; May 4; v. 274; p. 195.
Garments, Men's and children's outer. Cohen, Goldman & Co. No. 132,912; July 6; v. 276; p. 200.
Garments for young men and boys, Outer. J. J. Preis & Company. No. 132,227; June 15; v. 275; p. 619.
Garments, Men's outer. Levy & Schilt. No. 130,343; Apr. 20; v. 273; p. 621.
Garments, Outer. Stanley E. Selonick & Co. No. 138,343; Dec. 21; v. 281; p. 567.
Garments, Overall-. The C. E. Ward Company. No. 130,983; May 4; v. 274; p. 192.
Garments, Sleeping-. Marshall Field & Company. No. 130,815; May 4; v. 274; p. 187.
Garments, Women's and children's outer and under. Shainberg and Eber. No. 135,070; Sept. 21; v. 278; p. 535.
Garments, Women's and misses'. J. A. Migel, Inc. No. 128,788; Jan. 13; v. 270; p. 341.
Garments, Young men's outer. Levy & Schilt. No. 130,342; Apr. 20; v. 273; p. 621.
Garments, Youths' and boys' outer. Knickerbocker Clothing Co. No. 135,724; Oct. 19; v. 279; p. 529.
Garters. George Frost Company. No. 135,673; Oct. 19; v. 279; p. 528.
Garters. Hewes & Potter. No. 130,314; Apr. 20; v. 273; p. 620.
Garters. Penn Rivet Corporation. No. 132,224; June 15; v. 275; p. 619.
Garters. Penn Bros. Suspender Company. No. 132,778; June 29; v. 275; p. 1018.
Garters. The Thos. P. Taylor Company. No. 135,541; Oct. 12; v. 279; p. 346.
Garters and hose-supporters. American Textile Products Company. No. 136,302; Nov. 2; v. 280; p. 177.
Garters, armbands, &c. S. Levy. No. 130,200; Apr. 13; v. 273; p. 403.
Garters, Children's. A. M. Wilson Company. No. 135,879; Oct. 19; v. 279; p. 536.
Garters, hose-supporters, and armbands. A. Stein & Company. No. 130,238; Apr. 13; v. 273; p. 404.
Garters, hose-supporters, armbands, suspenders. U. S. Garter & Suspender Company. No. 135,352; Sept. 28; v. 278; p. 706.
Gas-engines and hoists for same, Marine and stationary. Standard Gas Engine Co. No. 134,193; Aug. 17; v. 277; p. 582.
Gas-producer apparatus. Akerlund & Semmes. No. 128,913; Jan. 20; v. 270; p. 471.
Gasolene. The Akron Oil Refining Company. No. 138,412; Dec. 28; v. 281; p. 781.
Gasolene. Denver Powerine Company. No. 131,899; May 25; v. 274; p. 835.
Gasolene. H. Earl Clack Company. No. 135,415; Oct. 12; v. 279; p. 342.

Digitized by Google

Gasolene. Hickok Producing Company. No. 131,906; May 25; v. 274; p. 836.
Gasolene. Hickok Producing Company. No. 136,829; Nov. 9; v. 280; p. 380.
Gasolene. The Ohio Cities Gas Co. No. 135,503; Oct. 12; v. 279; p. 345.
Gasolene. Pavania Oil Company. No. 128,480; Jan. 6; v. 270; p. 183.
Gasolene. Sherwood Bros. No. 131,925; May 25; v. 274; p. 836.
Gasolene. Sinclair Refining Company. No. 134,089; Aug. 10; v. 277; p. 391.
Gasolene. Southern Oil Corporation. No. 132,816; June 29; v. 275; p. 1019.
Gasolene. J. W. Trotter. No. 132,265; June 15; v. 275; p. 621.
Gasolene, benzin, graphite greases, &c. Ozmo Oil Refining Co. Nos. 129,518–19; Feb. 24; v. 271; p. 680.
Gasolene, benzin, naphtha, fuel-oil, &c. Beaver Refining Company. No. 134,593; Sept. 14; v. 278; p. 354.
Gasolene, benzin, &c. Petroleum Products Co. No. 131,819; May 25; v. 274; p. 833.
Gasolene-engines, lifting-jacks, &c. The Buda Company. No. 133,597; Aug. 3; v. 277; p. 170.
Gasolene-intensifier, Liquid. Bell Manufacturing Company. No. 137,552; Nov. 30; v. 280; p. 996.
Gasolene, lubricating oils, and greases. F. C. Miller. No. 136,104; Oct. 26; v. 279; p. 721.
Gasolene, naphtha, kerosene, and fuel-oil. Sloan & Zook. No. 137,704; Nov. 30; v. 280; p. 1000.
Gaskets, molded asbestos, rubber, &c. Barco Manufacturing Company. No. 137,549; Nov. 30; v. 280; p. 995.
Gates. Rowe Manufacturing Co. No. 132,235; June 15; v. 275; p. 620.
Gear reducers, power-transmission machinery, &c., Spur-. W. A. Jones Foundry & Machine Co. No. 133,151; July 13; v. 276; p. 402.
Gears and gearing. F. Burgess. No. 136,717; Nov. 2; v. 280; p. 191.
Gears to be used in motor-vehicles. The Powerlok Company. No. 138,091; Dec. 14; v. 281; p. 400.
Gelatin. Charles B. Knox Gelatine Company. No. 131,911; May 25; v. 274; p. 836.
Germicide. Bradley & Vrooman. No. 128,640; Jan. 13; v. 270; p. 336.
Germicide. H. M. Howell. No. 134,973; Sept. 21; v. 278; p. 532.
Germicide. Nodol Medicine Co. No. 136,559; Nov. 2; v. 280; p. 185.
Germicide and antiseptic preparation. H. D. Morris. No. 128,465; Jan. 6; v. 270; p. 182.
Germicide and insecticide. J. Perkins. No. 128,481; Jan. 6; v. 270; p. 183.
Germicide deodorizing and disinfectant dentifrice preparation. Southern Chemical Products Co. No. 132,538; June 22; v. 275; p. 823.
Germicide, disinfectant, antiseptic, and deodorant. Parke, Davis & Company. No. 132,773; June 29; v. 275; p. 1018.
Germicide, disinfectant, deodorant, &c. The Yardley Chemical Corporation. No. 138,527; Dec. 28; v. 281; p. 784.
Ginger-ale. Bath Bottling Co. No. 135,599; Oct. 19; v. 279; p. 525.
Ginger-ale. Beech-Nut Packing Company. No. 128,621; Jan. 13; v. 270; p. 336.
Ginger-ale. Emmerling Products Company. No. 128,974; Jan. 20; v. 270; p. 473.
Ginger-ale. Equinox Mountain Spring, Inc. No. 131,454; May 18; v. 274; p. 603.
Ginger-ale. French Valley Springs, Incorporated. No. 128,701; Jan. 13; v. 270; p. 338.
Ginger-ale. Gold Fish Ginger Ale Company. No. 135,249; Sept. 28; v. 278; p. 702.
Ginger-ale, &c. S. L. Goldman. No. 130,180; Apr. 13; v. 273; p. 402.
Ginger-ale. Grape Ola Products Corporation. No. 133,685; Aug. 3; v. 277; p. 173.
Ginger-ale. Harvard Brewing Co., (now by change of name Harvard Company.) No. 128,724; Jan. 13; v. 270; p. 339.
Ginger-ale. R. B. Kingman. No. 129,175; Jan. 27; v. 270; p. 615.
Ginger-ale. J. E. Marceau. No. 136,528; Nov. 2; v. 280; p. 184.
Ginger-ale. Rye-Ola Company. No. 131,602; May 18; v. 274; p. 608.
Ginger-ale. Purity Cross, Inc. No. 132,232; June 15; v. 275; p. 619.
Ginger-ale. A. M. Schlesinger. No. 131,618; May 18; v. 274; p. 608.
Ginger-ale. Southwestern Coca-Cola Bottling Co. No. 131,842; May 25; v. 274; p. 834.
Ginger-ale, cream-soda, sarsaparilla, &c. Alpine Co. No. 131,689; May 25; v. 274; p. 829.
Ginger-ale, ginger-beer, sarsaparilla, &c. J. J. Reardon. No. 135,050; Sept. 21; v. 278; p. 534.
Ginger-ale, root-beer, and cider. The Buckeye Producing Co. No. 135,619; Oct. 19; v. 279; p. 526.
Ginger-ale, sarsaparilla, and root-beer. American Stores Company. No. 135,586; Oct. 19; v. 279; p. 525.
Ginger-ale, sarsaparilla, root-beer. American Stores Company. No. 131,401; May 18; v. 274; p. 601.
Ginger-beer. J. V. Willis. No. 129,247; Jan. 27; v. 270; p. 617.
Ginger-tea tablets. The E. L. Patch Co. No. 136,145; Oct. 26; v. 279; p. 723.
Gingham piece goods. Marshall Field & Company. Nos. 136,090–2; Oct. 26; v. 279; p. 721.
Ginghams and cotton piece goods. Parkhill Mfg. Co. No. 133,482; July 27; v. 276; p. 770.
Ginghams and cotton piece goods. Parkhill Mfg. Co. No. 135,034; Sept. 21; v. 278; p. 534.
Ginghams and cotton piece goods. Parkhill Mfg. Co. No. 135,296; Sept. 28; v. 278; p. 704.
Ginghams, cotton goods, silk and cotton goods in the piece. Sanger Brothers. No. 133,314; July 20; v. 276; p. 592.
Ginghams, percales, bleached muslin, &c. Carson, Pirie, Scott & Co. No. 130,275; Apr. 20; v. 273; p. 619.
Girdles, brassières, hip-reducers, &c. The Elastowear Manufacturing Company. No. 130,710; May 4; v. 274; p. 184.
Glass. Corning Glass Works. No. 130,167; Apr. 13; v. 273; p. 401.
Glass. Corning Glass Works. No. 131,970; June 8; v. 275; p. 413.
Glass. Corning Glass Works. No. 134,311; Aug. 24; v. 277; p. 781.
Glass and artistic glassware, Cut. Corning Glass Works. Nos. 132,339–40; June 22; v. 275; p. 817.
Glass articles. Reid Bros. No. 130,003; Mar. 16; v. 272; p. 540.
Glass articles, Cut-. Lotus Cut Glass Company. No. 130,208; Apr. 13; v. 273; p. 408.
Glass bottles. Berney-Bond Glass Company. No. 136,323; Nov. 2; v. 280; p. 178.
Glass, Chemical preparation for matting, etching, or frosting. H. E. Davis. No. 136,394; Nov. 2; v. 280; p. 180.
Glass-cutters. J. E. Miller. No. 130,833; May 4; v. 274; p. 188.
Glass dishes. Macbeth-Evans Class Company. No. 135,009; Sept. 21; v. 278; p. 533.
Glass drawer and door knobs and glass door push-plates. E. A. Pratt. No. 137,375; Nov. 23; v. 280; p. 797.
Glass globes and reflectors for artificial light. Holophane Glass Company. No. 133,430; July 27; v. 276; p. 769.
Glass globes, shades, and reflectors. Young & Egan. No. 129,108; Jan. 20; v. 270; p. 477.
Glass jars. American Pure Food Process Co. No. 130,257; Apr. 20; v. 273; p. 619.
Glass jars. Merrill-Greer & Chapman. No. 135,489; Oct. 12; v. 279; p. 344.
Glass jars. Phoenix-Hermetic Company. No. 130,223; Apr. 13; v. 273; p. 403.
Glass, Sheet-. The Super-Glass Co. No. 135,086; Sept. 21; v. 278; p. 535.
Glass spoons and sippers, Combined. Hirsch-Malgood Co. No. 136,464; Nov. 2; v. 280; p. 182.
Glass surfaces to keep them clear, Liquid composition for use on. J. R. Kirkpatrick, Jr. No. 136,497; Nov. 2; v. 280; p. 183.
Glass vial, Perfume. A. Vericel. No. 130,965; May 4; v. 274; p. 192.
Glass tumblers. Albert Pick & Company. No. 135,883; Oct. 26; v. 279; p. 715.
Glass, Window and picture. American Window Glass Company. No. 131,893; May 25; v. 274; p. 835.
Glassware. Central Glass Works. No. 134,608; Sept. 14; v. 278; p. 354.
Glassware. Gill Brothers Company. No. 136,813; Nov. 9; v. 280; p. 379.
Glassware. Tiffany Furnaces. No. 131,757; May 25; v. 274; p. 831.
Glassware for lighting-fixtures. Lighting Studios Company. No. 129,296; Feb. 10; v. 271; p. 356.
Glassware, Table-. Tiffany and Company. Nos. 134,448–9; Aug. 31; v. 277; p. 974.
Glassware, Table and fancy. George Borgfeldt & Co. No. 133,104; July 13; v. 276; p. 401.
Glazing compound. F. O. Pierce Company. No. 137,368; Nov. 23; v. 280; p. 797.
Glove-binding. Star Binding & Trimming Co. No 132,052; June 8; v. 275; p. 416.
Glove-bleach. Charles McAdam Company. No. 128,438; Jan. 6; v. 270; p. 182.
Gloves. The Biltwell Glove Company. No. 133,213; July 20; v. 276; p. 589.
Gloves, T. H. Hall. No. 138,253; Dec. 21; v. 281; p. 564.
Gloves. Wells-Lamont Manufacturing Company. No. 129,562; Feb. 24; v. 271; p. 681.
Gloves and knitted underwear, Fabric. Saul Gelarie & Company. No. 137,234; Nov. 23; v. 280; p. 793.
Gloves and mittens. Des Moines Glove & Mfg. Company. No. 128,363; Jan. 6; v. 270; p. 179.
Gloves and mittens. O. C. Hansen Mfg. Co. No. 128,990; Jan. 20; v. 270; p. 473.
Gloves and mittens. R. K. Wilson. No. 129,252; Jan. 27; v. 270; p. 617.
Gloves and mittens, Leather. Busby Glove Co. No. 136,344; Nov. 2; v. 280; p. 179.
Gloves and mittens, Leather and cloth. Wisconsin-Pilot Glove Company. No. 133,343; July 20; v. 276; p. 593.
Gloves and underwear, Silk. Mohawk Silk Fabric Co. No. 138,292; Dec. 21; v. 281; p. 565.
Gloves, Cotton. Wells-Lamont Manufacturing Company. No. 138,369; Dec. 21; v. 281; p. 567.

Digitized by Google

Gloves, Fabric. L. Cleveland. No. 136,377; Nov. 2; v. 280; p. 180.
Gloves, Fabric. Merrill Silk Company. No. 136,535; Nov. 2; v. 280; p. 184.
Gloves, Fabric and leather. Patrick, F. A., & Co. No. 136,148; Oct. 26; v. 279; p. 723.
Gloves, Fabric and leather. Wells-Lamont Manufacturing Company. No. 132,273; June 15; v. 275; p. 621.
Gloves, Kid. Henry Kayser & Fils. No. 130,325; Apr. 20; v. 273; p. 621.
Gloves, Knit. Morgan Knitting Mills. No. 133,166; July 13; v. 276; p. 403.
Gloves, Leather. Heller Leather Co. No. 130,750; May 4; v. 274; p. 185.
Gloves, Leather. The Heller Leather Co. No. 135,457; Oct. 12; v. 279; p. 343.
Gloves, Leather and fabric. Langenberg Hat Company. No. 132,435; June 22; v. 275; p. 820.
Gloves of fabric and leather. The Futurist Company. No. 137,232; Nov. 23; v. 280; p. 793.
Gloves of leather and fabric. T. H. Hall. No. 134,962; Sept. 21; v. 278; p. 531.
Gloves, Wool. Morgan Knitting Mills. No. 133,754; Aug. 3; v. 277; p. 175.
Glue. M. Fiegel & Bro. No. 134,235; Aug. 24; v. 277; p. 777.
Glue. M. Feigel & Bro. No. 137,595; Nov. 30; v. 280; p. 997.
Glue. G. Mayer. No. 136,532; Nov. 2; v. 280; p. 184.
Glue. The Napco Corporation. No. 133,759; Aug. 3; v. 277; p. 175.
Glue. Simmons Hardware Company. No. 131,838; May 25; v. 274; p. 834.
Glue or lute, Marine. Bitu-Mo-Lin Products Co. No. 132,098; June 15; v. 275; p. 615.
Glues or adhesives, Casein. The Casein Manufacturing Company. No. 132,322; June 22; v. 275; p. 816.
Goiter preparations. E. R. Heyssen. No. 128,400; Jan. 6; v. 270; p. 180.
Gold alloy for dental clasps, &c. Baker and Company. No. 130,039; Apr. 6; v. 273; p. 179.
Gold and silver mounted articles. L. P. White. No. 129,930; Mar 9; v. 272; p. 870.
Gold for dental shells and plates, White. Baker and Company. No. 130,040; Apr. 6; v. 273; p. 179.
Gold, metal, and composition leaf. Philip A. Hunt Company. No. 131,495; May 18; v. 274; p. 604.
Golf-bags and tennis-racket covers. Dafoe-Eustice Company. No. 130,481; Apr. 27; v. 273; p. 802.
Golf-clubs. Crawford, McGregor & Canby Company. No. 128,963; Jan. 20; v. 270; p. 472.
Golf-clubs. The Crawford McGregor and Canby Company. No. 130,689; May 4; v. 274; p. 184.
Golf-clubs. A. G. Spalding & Bros. No. 133,185; July 13; v. 276; p. 403.
Golf-clubs, fishing-rods, reels, &c. Simmons Hardware Company. No. 133,821; Aug. 3; v. 277; p. 177.
Golf-putters. Tru-Aim Manufacturing Company. No. 133,065; July 6; v. 276; p. 204.
Gowns. J. Nemser. No. 133,007; July 6; v. 276; p. 203.
Gowns, Children's muslin. J. K. Hammerman. No. 132,161; June 15; v. 275; p. 617.
Gowns, dresses, suits, and lingerie. L. S. Hubner. No. 137,270; Nov. 23; v. 280; p. 794.
Gowns for outer wear, Ladies'. J. Nemser. No. 133,765; Aug. 3; v. 277; p. 175.
Gowns, frocks, hats, &c., Ladies'. Hickson Inc. No. 138,187; Dec. 14; v. 287; p. 405.
Grain-drills, broadcast fertilizer-sowers, &c. The American Seeding-Machine Company. No. 134,152; Aug. 17; v. 277; p. 581.
Grain for chick and poultry feed, &c., Mixed. International Sugar Feed Co. No. 132,714; June 29; v. 275; p. 1016.
Grain-handling machinery. Weller Manufacturing Company. No. 128,896; Jan. 13; v. 270; p. 344.
Grading machine, Wheel-mounted road-. American Road Machinery Company. No. 136,739; Nov. 9; v. 280; p. 377.
Grape-fruit, pineapples, grape-fruit marmalade. Spanish American Fruit Company. No. 135,340; Sept. 28; v. 278; p. 705.
Grape-juice. California Wine Association. No. 131,422; May 18; v. 274; p. 602.
Grape-juice. Grape Ola Products Corporation. No. 133,686; Aug. 3; v. 277; p. 173.
Grape-juice. Hammondsport Products Co. No. 131,481; May 18; v. 274; p. 603.
Grape-juice. W. Taylor. No. 137,392; Nov. 23; v. 280; p. 798.
Grape-juice. W. J. Withers. No. 135,854; Oct. 19; v. 279; p. 533.
Grape-juice and non-alcoholic soft drinks. A. C. Fischer. No. 137,221; Nov. 23; v. 280; p. 793.
Grape-juice and ginger-ale. Walker-Matteson Company. No. 131,876; May 25; v. 274; p. 835.
Grape-juice, lemon-soda, birch-beer, &c. Serv-Us Grocery Products Corporation. No. 138,116; Dec. 14; v. 281; p. 401.
Grape-juice, Unfermented. W. Taylor. No. 136,662; Nov. 2; v. 280; p. 188.
Grape-soda. The Coca-Cola Bottling Co. No. 136,378; Nov. 2; v. 280; p. 180.
Grapes, Fresh. L. Rusconi. No. 130,234; Apr. 13; v. 273; p. 404.
Grapes, Fresh. L. Rusconi. No. 130,899; May 4; v. 274; p. 190.
Grapes, Fresh. L. Rusconi. No. 132,793; June 29; v. 275; p. 1018.
Graphite. Flaketown Graphite Co. No. 137,222; Nov. 23; v. 280; p. 793.
Graphite, Flake. International Carbon Products Company. No. 130,764; May 4; v. 274; p. 186.
Graphite, Powdered. E. F. Hartsell. No. 133,425; July 27; v. 276; p. 769.
Graphite, soapstone, and mica. St. Louis Rubber Cement Co. No. 135,080; Sept. 21; v. 278; p. 535.
Grate-bar for furnaces and stoves. Cyclone Grate-Bar Co. No. 129,144; Jan. 27; v. 270; p. 614.
Grating, Metal. Mitchell-Tappen Company. No. 132,745; June 29; v. 275; p. 1017.
Gratings for floorings and staircases, Metal. Irving Iron Works Company. No. 135,470; Oct. 12; v. 279; p. 344.
Grease-cups. Hunter Pressed Steel Co. No. 134,174; Aug. 17; v. 277; p. 581.
Grease-cups. Lunkenheimer Company. Nos. 132,443–4; June 22; v. 275; p. 820.
Grease-cups. The Lunkenheimer Company. Nos. 133,159–60; July 13; v. 276; p. 403.
Grease-cups. The Lunkenheimer Company. No. 136,724; Nov. 2; v. 280; p. 192.
Grease-cups. Merchant & Evans Company. No. 136,867; Nov. 9; v. 280; p. 381.
Grease-eradicators. Hofstra Manufacturing Company. No. 136,037; Oct. 26; v. 279; p. 719.
Grease for stopcocks and the like. W. H. Hart. No. 132,165; June 15; v. 275; p. 617.
Grease, Lubricating-. Standard Oil Company. No. 136,946; Nov. 9; v. 280; p. 383.
Grease, Lubricating-. Standard Oil Company. No. 137,476; Nov. 23; v. 280; p. 800.
Grease, Lubricating-. Swan & Finch Company. No. 137,513; Nov. 23; v. 280; p. 804.
Greases. De Nordiske Fabriker, De-No-Fa, Aktieselskab. No. 136,791; Nov. 9; v. 280; p. 378.
Greases and oils. The Ohio Grease Company. No. 132,764; June 29; v. 275; p. 1018.
Greases, Lubricating-. American Products Corporation. No. 135,895; Oct. 26; v. 279; p. 715.
Grinding and polishing wheels and blocks. Abradant Products Company. No. 131,948; June 8; v. 275; p. 413.
Grinding compound. Zip Manufacturing Company. No. 129,950; Mar. 9; v. 272; p. 870.
Grinding compound for bearings, &c. J. A. Menard. No. 137,657; Nov. 30; v. 280; p. 999.
Grinding, crushing, and pulverizing machines. Williams Patent Crusher and Pulverizer Company. No. 129,250; Jan. 27; v. 270; p. 617.
Grinding-machines. The Heald Machine Company. No. 138,022; Dec. 14; v. 281; p. 398.
Grinding-machines and parts thereof, Metal-working. Saphil Manufacturing Corporation. No. 135,329; Sept. 28; v. 278; p. 705.
Grinding-machines, Metal-working. Bryant Chucking Grinder Company. No. 137,770; Dec. 7; v. 281; p. 195.
Grinding machines, Stock-feed-. S. Cheney & Son. No. 134,161; Aug. 17; v. 277; p. 581.
Grinding-wheels, oilstones, razor-hones. A. Goodrich Manufacturer, Inc. No. 135,683; Oct. 19; v. 279; p. 528.
Grindstones, whetstones, and abrasive powder. White Heat Products Company. No. 136,700; Nov. 2; v. 280; p. 190.
Grits, pearl-hominy, &c. Wathen Milling Company. No. 129,243; Jan. 27; v. 270; p. 617.
Groceries. Troy Dry Goods Co. No. 135,347; Sept. 28; v. 278; p. 705.
Guano. American Agricultural Chemical Co. No. 131,692; May 25; v. 274; p. 829.
Guards for animals, Nose-. R. Brownson & Company. No. 133,595; Aug. 3; v. 277; p. 170.
Guide-books. The Price & Lee Co. No. 136,903; Nov. 9; v. 280; p. 382.
Gum and candy, Chewing-. Mint Products Company. No. 128,462; Jan. 6; v. 270; p. 182.
Gum and confectionery, Chewing-. Millard Gum Vending Corporation. No. 136,537; Nov. 2; v. 280; p. 185.
Gum, Chewing-. The Bee Bee Confection Company. No. 131,410; May 18; v. 274; p. 601.
Gum, Chewing-. The D. L. Clark Company. No. 135,947; Oct. 26; v. 279; p. 717.
Gum, Chewing-. Coingum Manufacturing Company. No. 130,475; Apr. 27; v. 273; p. 801.
Gum, Chewing-. L. P. Larson Jr. Company. No. 131,337; May 11; v. 274; p. 401.
Gum, Chewing-. D. Millhauser. No. 129,028; Jan. 20; v. 270; p. 474.
Gum, Chewing-. O-Pee-Chee Gum Co. No. 132,221; June 15; v. 275; p. 619.
Gum, Chewing-. G. W. Todd. No. 129,092; Jan. 20; v. 270; p. 476.
Gum, Chewing-. Universal Products Co. No. 130,588; Apr. 27; v. 273; p. 805.
Gum, Chewing-. Wm. Wrigley Jr. Company. No. 131,004; May 4; v. 274; p. 193.

Digitized by Google

Alphabetical list of trade-marks—Continued.

Gum-shellac, Bleached. Wm. Zuisser & Co. No. 134,470; Aug. 31; v. 277; p. 975.
Gum tissue. Omo Mfg. Co. No. 128,477; Jan. 6; v. 270; p. 183.
Gum tissue. Omo Mfg. Co. No. 128,810; Jan. 13; v. 270; p. 342.
Gummed and ungummed paper sealing, veneer, &c. Chicago Gum Tape Company. No. 137,971; Dec. 14; v. 281; p. 396.
Gun-mounts, Mobile. The Holt Manufacturing Company. No. 135,703; Oct. 19; v. 279; p. 528.
Guns, bombs, &c., Machine, &c. Handley Page Limited. No. 133,423; July 27; v. 276; p. 769.
Gusset-web, Elastic. W. Preston & Son. No. 129,833; Mar. 9; v. 272; p. 367.
Hacksaws. Young, Corley & Dolan. No. 129,256; Jan. 27; v. 270; p. 617.
Hacksaws and screw-drivers. New England Tool Co. Inc. No. 129,194; Jan. 27; v. 270; p. 615.
Hair and scalp, Compound for the treatment of. A. L. Carter. No. 134,481; Sept. 7; v. 278; p. 159.
Hair and scalp, Preparation for the treatment of the. F. A. Gray. No. 136,016; Oct. 26; v. 279; p. 719.
Hair and scalp preparation. H. Schlar. No. 128,846; Jan. 13; v. 270; p. 343.
Hair and scalp preparation. Ella Walker Manufacturing Company. No. 128,893; Jan. 13; v. 270; p. 344.
Hair and scalp preparation. M. Wise. No. 129,409; Feb. 17; v. 271; p. 509.
Hair and scalp tonic. D. T. Ward. No. 132,856; June 29; v. 275; p. 1020.
Hair and scalp tonic and cleansers. Sterling Products. No. 128,871; Jan. 13; v. 270; p. 344.
Hair and toilet preparations. C. E. Hoffman Company. No. 136,466; Nov. 2; v. 280; p. 182.
Hair-clippers, motors, and hair-driers, Electric. The Moore Electric Corporation. No. 133,006; July 6; v. 276; p. 203.
Hair-color restorer. C. A. Crotty. No. 138,442; Dec. 28; v. 281; p. 782.
Hair-coloring. J. B. C. Balme. No. 134,475; Sept. 7; v. 278; p. 159.
Hair, Coloring for the. J. Goldman. No. 132,390; June 22; v. 275; p. 818.
Hair-coloring for the beard and hair. Panafieu Pere et Fils. No. 132,371; June 22; v. 275; p. 818.
Hair-coloring preparation. Lehn & Fink. No. 129,769; Mar. 9; v. 272; p. 365.
Hair-cream. C. A. Clements. No. 135,951; Oct. 26; v. 279; p. 717.
Hair-cream. C. A. Clements. No. 136,376; Nov. 2; v. 280; p. 180.
Hair-curler. L. E. Marx. No. 131,185; May 4; v. 274; p. 198.
Hair-dressing. American Laboratories. No. 128,598; Jan. 13; v. 270; p. 335.
Hair-dressing Hermo Co. No. 137,262; Nov. 23; v. 280; p. 794.
Hair-dressing. A. Plough. No. 132,483; June 22; v. 275; p. 821.
Hair-dressing. Tono-Scalpa Company. No. 133,529; July 27; v. 276; p. 772.
Hair-dressing and dandruff-oil. E. N. Coles. No. 129,441; Feb. 24; v. 271; p. 678.
Hair-dressing having no quinin. Hoffman, C. E., Company. No. 136,035; Oct. 26; v. 279; p. 719.
Hair-dressing, Pomade. J. J. Kaufman. No. 134,698; Sept. 14; v. 278; p. 357.
Hair-dressings, &c. S. & M. Greene. No. 128,717; Jan. 13; v. 270; p. 339.
Hair dyes and shampoo. Ori-Ori Company. No. 134,756; Sept. 14; v. 278; p. 358.
Hair-extractor, Mechanical. L. M. Durfee. No. 130,705; May 4; v. 274; p. 184.
Hair, Fluid to relieve falling. S. Praisner. No. 135,045; Sept. 21; v. 278; p. 534.
Hair-grower. Mrs. D. Burch. No. 133,599; Aug. 3; v. 277; p. 170.
Hair-grower. M. E. Watson. No. 134,845; Sept. 14; v. 278; p. 361.
Hair-grower. J. J. Zofsak. No. 133,885; Aug. 3; v. 277; p. 179.
Hair-grower, pressing and temple oil, and hair-dye. G. R. Hawkins. No. 131,486; May 18; v. 274; p. 604.
Hair-grower, shampoo, brilliantine, or pressing-oil. L. J. Reeves. No. 132,788; June 29; v. 275; p. 1018.
Hair-invigorator. R. A. Farese. No. 134,943; Sept. 21; v. 278; p. 531.
Hair-nets. The Bloch Chemical Company. No. 133,356; July 27; v. 276; p. 767.
Hair-nets. The Bloch Chemical Company. No. 133,583; Aug. 3; v. 277; p. 170.
Hair-nets. Eastern Hair Net Trading Co. No. 136,407; Nov. 2; v. 280; p. 181.
Hair-nets. Fulghum & Company. No. 134,950; Sept. 21; v. 278; p. 531.
Hair-nets. S. Glemby, Inc. Nos. 133,672–4; Aug. 3; v. 277; p. 172.
Hair-nets. Hartmann Brothers. No. 133,258; July 20; v. 276; p. 590.
Hair nets. Hartmann Brothers. No. 133,699; Aug. 3; v. 277; p. 173.
Hair-nets. Hartmann Pacific Company. No. 136,450; Nov. 2; v. 280; p. 182.
Hair-nets. National Hair Goods Co. No. 136,117; Oct. 26; v. 279; p. 22.
Hair-nets. Notovitz, J., Chicago, Ill. No. 129,814; Mar. 9; v. 272; p. 366.
Hair-nets. C. Oppenheimer. No. 135,184; Sept. 21; v. 278; p. 540.
Hair-nets. Paristyle Novelty Co. No. 131,570; May 18; v. 274; p. 606.
Hair-nets. Paristyle Novelty Co. Inc. No. 133,481; July 27; v. 276; p. 770.
Hair-nets. Paristyle Novelty Co. No. 135,035; Sept. 21; v. 278; p. 534.
Hair-nets. Reichman & Faust. No. 137,853; Dec. 7; v. 281; p. 198.
Hair-nets. Samuel Boncet & Bro. No. 131,415; May 18; v. 274; p. 601.
Hair-nets. R. E. Tower. No. 132,837; June 29; v. 275; p. 1020.
Hair-ointment. M. B. Saulter. No. 129,531; Feb. 24; v. 271; p. 680.
Hair-pomade. Mmes. Williams, Hebron & Herd. No. 128,579; Jan. 6; v. 270; p. 186.
Hair-powder for dry shampooing. E. R. Plummer. No. 136,586; Nov. 2; v. 288; p. 186.
Hair preparation. S. Helm. No. 131,774; May 25; v. 274; p. 832.
Hair, Preparation for strengthening, &c., the. W. I. Maclvor. No. 129,778; Mar. 9; v. 272; p. 365.
Hair remedy. Wyeth Chemical Co. No. 128,583; Jan. 6; v. 270; p. 186.
Hair-restorer. M. Braunberg. No. 132,306; June 22; v. 275; p. 816.
Hair-restorer. C. L. Waters. No. 134,558; Sept. 7; v. 278; p. 161.
Hair-restorers. H. B. Smith. No. 136,629; Nov. 2; v. 280; p. 187.
Hair-salve. Viduseck, A. No. 131,661; May 18; v. 274; p. 609.
Hair-shampoo. The Edison Laboratories. No. 132,366; June 22; v. 275; p. 817.
Hair-shampoo. H. S. Peterson & Co. No. 136,579; Nov. 2; v. 280; p. 186.
Hair-singeing device, Electric. W. A. Ross. No. 138,103; Dec. 14; v. 281; p. 400.
Hair-straightener paste. G. T. Young. No. 136,279; Oct. 26; v. 279; p. 726.
Hair-tint. Kenton Pharmacal Company. No. 132,718; June 29; v. 275; p. 1016.
Hair-tonic. A. Antoine. No. 134,885; Sept. 21; v. 278; p. 529.
Hair-tonic. L. V. Assanti. No. 129,421; Feb. 24; v. 271; p. 677.
Hair-tonic, &c. The Atlanta Barbers' Supply Co. Nos. 128,291–2; Jan. 6; v. 270; p. 177.
Hair-tonic. J. B. Berfault. No. 128,625; Jan. 13; v. 270; p. 336.
Hair-tonic. P. Daski. No. 131,440; May 18; v. 274; p. 602.
Hair-tonic. F. Eppolito. No. 128,685; Jan. 13; v. 270; p. 338.
Hair-tonic. M. Faehner. No. 134,497; Sept. 7; v. 278; p. 159.
Hair-tonic. H. F. Feeback. No. 134,644; Sept. 14; v. 278; p. 355.
Hair-tonic. R. E. Fisher & Sons. No. 137,784; Dec. 7; v. 281; p. 196.
Hair-tonic. W. H. Forst. No. 135,241; Sept. 28; v. 278; p. 702.
Hair-tonic. S. K. Karegeannes. No. 129,477; Feb. 24; v. 271; p. 679.
Hair-tonic. E. Kiger. No. 134,701; Sept. 14; v. 278; p. 357.
Hair-tonic. S. Kurman. No. 134,706; Sept. 14; v. 278; p. 357.
Hair-tonic. B. W. McNeil. No. 128,439; Jan. 6; v. 270; p. 182.
Hair-tonic. H. Mazierska. No. 137,333; Nov. 23; v. 280; p. 796.
Hair-tonic. J. B. Nayberger. No. 131,563; May 18; v. 274; p. 606.
Hair-tonic. T. Noonan & Sons Company. No. 128,472; Jan. 6; v. 270; p. 183.
Hair-tonic. S. H. Olson. No. 132,767; June 29; v. 275; p. 1018.
Hair-tonic. Parmoline Co. No. 128,814; Jan. 13; v. 270; p. 342.
Hair-tonic. E. J. Phinizee. No. 132,486; June 22; v. 275; p. 821.
Hair-tonic. I. L. Secrest. No. 132,803; June 29; v. 275; p. 1019.
Hair-tonic. M. Thompson. No. 132,563; June 22; v. 275; p. 824.
Hair-tonic. C. J. Williams. No. 135,361; Sept. 28; v. 278; p. 706.
Hair-tonic. S. S. Winfield. No. 132,596; June 22; v. 275; p. 825.
Hair-tonic. H. S. Woolner. No. 129,568; Feb. 24; v. 271; p. 682.
Hair-tonic and dandruff-remover. W. S. Simmons. No. 129,878; Mar. 9; v. 272; p. 368.

Digitized by Google

Hair-tonic and dandruff-preventive. Atlanta Barbers' Supply Co. No. 134,888; Sept. 21; v. 278; p. 529.
Hair-tonic and gloss and shampoo preparation. P. B. Garden. No. 134,952; Sept. 21; v. 278; p. 531.
Hair-tonic and hair-growing preparation. V. Dell. No. 132,353; June 22; v. 275; p. 817.
Hair tonic and pomade, &c. G. T. Young. No. 128,906; Jan. 13; v. 270; p. 345.
Hair-tonic and toilet deodorant. J. R. Watkins. No. 133,880; Aug. 3; v. 277; p. 179.
Hair-tonic, dandruff eradicator, and complexion-cream. A. R. Smith. No. 132,532; June 22; v. 275; p. 823.
Hair-tonics. F. L. Francis. No. 128,699; Jan. 13; v. 270; p. 338.
Hair-tonics. Gaughan & Painter. No. 129,459; Feb. 24; v. 271; p. 678.
Hair tonics and straighteners. E. Adams. No. 131,277; May 11; v. 274; p. 399.
Hair-wavers. Parisian Mfg. Company. No. 131,206; May 4; v. 274; p. 199.
Hair-waving device. D. P. Gleason. No. 136,435; Nov. 2; v. 280; p. 181.
Hairpins. Dobson Novelty Company. No. 135,651; Oct. 19; v. 279; p. 527.
Hairpins, safety and toilet pins, snap-fasteners, hook-and-eye tape. De Long Hook and Eye Company, The. No. 131,974; June 8; v. 275; p. 413.
Hairpins, wire hairpins, hair-fasteners, hair-wavers, safety and toilet pins, Composition. Reichman & Faust. No. 133,790; Aug. 3; v. 277; p. 176.
Ham and bacon. Hansen Packing Company. No. 137,032; Nov. 16; v. 280; p. 583.
Ham, bacon, &c. Corn Belt Packing Company. No. 128,960; Jan. 20; v. 270; p. 472.
Ham, bacon, shoulder, and sugar-cured picnics. Corn Belt Packing Company. Nos. 129,276–7; Feb. 10; v. 271; p. 355.
Hams. Corkran, Hill & Co. No. 134,310; Aug. 24; v. 277; p. 781.
Hams, bacon, and lard. F. E. Patrick-Young Co. No. 134,063; Aug. 10; v. 277; p. 390.
Hams, bacon, and lard. The Thomas J. Kurdle Company. No. 129,294; Feb. 10; v. 271; p. 356.
Hams, bacon, and picnic-hams. J. E. Decker & Sons. No. 133,950; Aug. 10; v. 277; p. 386.
Hams, bacon, lard, &c. Arnold Brothers. No. 137,764; Dec. 7; v. 281; p. 195.
Hams, bacon, shoulders. Swift & Company. No. 130,940. May 4; v. 274; p. 191.
Hammers, hatchets, &c. Fayette R. Plumb, Inc. No. 138,088; Dec. 14; v. 281; p. 400.
Hammers, knives, shingling-hatchets. Hibbard, Spencer, Bartlett & Co. No. 131,322; May 11; v. 274; p. 400.
Hammocks. John Curtin Corp. No. 130,056; Apr. 6; v. 273; p. 180.
Handbags. Danda-Halpern Co. No. 133,626; Aug. 3; v. 277; p. 171.
Handbags, Ladies'. Ritter Bros. No. 134,782; Sept. 14; v. 278; p. 359.
Handbags, Ladies'. Ritter Bros. No. 135,058; Sept. 21; v. 278; p. 534.
Handbags, Ladies' mesh. Wiener Bros. No. 137,422; Nov. 23; v. 280; p. 799.
Handkerchiefs. Alco Textile Products Co. No. 130,252; Apr. 20; v. 273; p. 619.
Handkerchiefs. Carson, Pirie, Scott & Co. No. 133,604; Aug. 3; v. 277; p. 170.
Handkerchiefs. S. I. Gross. No. 132,952; July 6; v. 276; p. 201.
Handkerchiefs. Hyman Bauman & Co. No. 131,408; May 18; v. 274; p. 601.
Handkerchiefs. Hyman Bauman & Co. No. 132,894; July 6; v. 276; p. 199.
Handkerchiefs. Hyman Bauman & Co. No. 134,561; Sept. 7; v. 278; p. 161.
Handkerchiefs. Hyman Bauman & Co. No. 135,910; Oct. 26; v. 279; p. 716.
Handkerchiefs. International Handkerchief Mfg. Co. No. 129,755; Mar. 9; v. 272; p. 364.
Handkerchiefs. The International Handkerchief Mfg. Co. No. 133,439; July 27; v. 276; p. 769.
Handkerchiefs. Jordan Marsh Company. No. 130,324; Apr. 20; v. 273; p. 621.
Handkerchiefs. A. Lipshitz. No. 129,772; Mar. 9; v. 272; p. 365.
Handkerchiefs. Loeb & Schoenfeld Company. No. 128,433; Jan. 6; v. 270; p. 181.
Handkerchiefs. Long Handkerchief Co. No. 135,734; Oct. 19; v. 279; p. 520.
Handkerchiefs. Rice-Stix Dry Goods Company. No. 133,500; July 27; v. 276; p. 771.
Handkerchiefs. Robinson & Golluber. No. 135,521; Oct. 12; v. 279; p. 345.
Handkerchiefs. L. A. Silk. No. 135,534; Oct. 12; v. 279; p. 345.
Handles, knobs, pulls, Enameled. American Enamel Company. No. 133,561; Aug. 3; v. 277; p. 169.
Handles, Tool-. Thurston-Bernay Co. No. 135,542; Oct. 12; v. 279; p. 346.
Hard rubber goods. American Hard Rubber Company. No. 136,738; Nov. 9; v. 280; p. 377.
Hardtack. A. V. Peterson. No. 133,488; July 27; v. 276; p. 771.
Hardware. Chelsea Engineering Sales Corporation. No. 137,146; Nov. 23; v. 280; p. 790.
Hardware, &c. Soss Manufacturing Co. No. 136,634; Nov. 2; v. 280; p. 188.
Hardware and household articles. National Enameling & Stamping Co. No. 136,116; Oct. 26; v. 279; p. 722.
Hardware and plumbing, &c. August Buschmann & Sons. No. 136,766; Nov. 9; v. 280; p. 378.
Hardware and plumbing and steam-fitting supplies. Aktiebolaget Arca Regulator. No. 133,202; July 20; v. 276; p. 589.
Hardware and plumbing and steamfitting supplies. Bowden Wire Limited. No. 133,588; Aug. 3; v. 277; p. 170.
Hardware and plumbing and steam-fitting supplies. The Farm Equipment Co. No. 133,243; July 20; v. 276; p. 590.
Hardware and plumbing and steam-fitting supplies. S. J. Gulesian. No. 133,253; July 20; v. 276; p. 590.
Hardware and plumbing and steam-fitting supplies. Tew Patent Development Company. No. 133,330; July 20; v. 276; p. 593.
Hardware and plumbing and steam-fitting supplies. Walworth Manufacturing Company. No. 133,195; July 13; v. 276; p. 404.
Hardware, Builders'. E. Bommer. No. 129,127; Jan. 27; v. 270; p. 613.
Hardware, plumbing, and steam-fitting supplies. R. J. Donovan Co. of New York. No. 131,737; May 25; v. 274; p. 830.
Hardware supplies. National Brass Company. No. 133,168; July 13; v. 276; p. 403.
Harmonicas. American Harmonica & Accordion Manufacturing Company. No. 128,917; Jan. 20; v. 270; p. 471.
Harmonicas. J. K. Johnson. No. 131,787; May 25; v. 274; p. 832.
Harmonicas, Mouth-. Peerless Musical Instrument Mfg. Co. No. 129,045; Jan. 20; v. 270; p. 475.
Harness, belts, and coupling attachments, Aviators'. A. V. Roe & Co. No. 138,505; July 27; v. 276; p. 771.
Harness, riding-saddles, &c. Simmons Hardware Company. No. 129,077; Jan. 20; v. 270; p. 476.
Hat-bleaching compound. E. Stratigos. No. 132,549; June 22; v. 275; p. 823.
Hat-blocking dies and hat-blocks. J. C. Martin. No. 135,485; Oct. 12; v. 279; p. 344.
Hat-shields. L. W. Hackney. No. 131,992; June 8; v. 275; p. 414.
Hats. S. Schiller. No. 130,907; May 4; v. 274; p. 190.
Hats. Chas. Tobias Bro. & Company. No. 130,427; Apr. 20; v. 273; p. 624.
Hats and caps. Bowman-Moore Hat Company. No. 138,221; Dec. 21; v. 281; p. 563.
Hats and caps. M. Feldstein. No. 131,751; May 25; v. 274; p. 831.
Hats and caps. Reading Hat & Cap Co. No. 137,686; Nov. 30; v. 280; p. 1000.
Hats and caps, Children's. K. M. Polhamus. No. 135,510; Oct. 12; v. 279; p. 345.
Hats and caps, Cloth. Chas. Tobias Bro. & Company. No. 130,426; Apr. 20; v. 273; p. 624.
Hats and caps, Felt. John B. Stetson Company. No. 130,418; Apr. 20; v. 273; p. 624.
Hats and caps, for men, women, and children, Oil. A. J. Tower Company. No. 132,564; June 22; v. 275; p. 824.
Hats and caps, Men's. Rogers Peet Company. No. 137,387; Nov. 23; v. 280; p. 798.
Hats and caps, Men's and children's. Goorin, Shapira & Company. No. 130,503; Apr. 27; v. 273; p. 802.
Hats and hat-frames, Ladies'. Amsterdam, Borgos & Adam. No. 137,763; Dec. 7; v. 281; p. 195.
Hats, caps, neckwear. B. Tulchinsky. No. 135,348; Sept. 28; v. 278; p. 705.
Hats, Children's. Goldstein Millinery Company. No. 129,461; Feb. 24; v. 271; p. 678.
Hats, coats, raincoats, &c. Waterproof Garment Co. No. 138,364; Dec. 21; v. 281; p. 567.
Hats for children, girls, and misses, Straw and cloth. Madge Evans Hat Co. No. 134,637; Sept. 14; v. 278; p. 355.
Hats for children and misses. Sears, Roebuck and Co. No. 134,800; Sept. 14; v. 278; p. 360.
Hats for men and women. M. S. Levy & Sons. No. 136,513; Nov. 2; v. 280; p. 184.
Hats for women and children. Hart & Company. Nos 138,545–6; Dec. 28; v. 281; p. 786.
Hats for women and children and booties for infants. E. E. Owens. No. 137,671; Nov. 30; v. 280; p. 999.
Hats, Infants', &c. R. H. Macy & Co. No. 129,021; Jan. 20; v. 270; p. 474.
Hats, Ladies'. Engle and Zeimer. No. 133,644; Aug. 3; v. 277; p. 172.
Hats, Ladies'. Engle & Zeimer. No. 138,376; Dec. 21; v. 281; p. 568.
Hats, Ladies'. Gage Brothers & Company. No. 132,380; June 22; v. 275; p. 818.
Hats, Ladies'. C. A. Gerber. No. 137,611; Nov. 30; v. 280; p. 997.
Hats, Ladies'. James A. Hearn & Sons. No. 129,164; Jan. 27; v. 270; p. 614.
Hats, Ladies'. Kurz Bros. No. 132,184; June 15; v. 275; p. 618.
Hats, Ladies'. C. Roth. No. 129,213; Jan. 27; v. 270; p. 616.

Digitized by Google

Hats, Ladies'. C. Roth. No. 132,506; June 22; v. 275; p. 822.
Hats, Ladies'. J. Tenenbaum & Sons. No. 129,227; Jan. 27; v. 270; p. 616.
Hats, Ladies', misses', and children's. H. Kane. No. 129,174; Jan. 27; v. 270; p. 615.
Hats, Ladies' trimmed, tailored, and sport. Simon Millinery Supply Co. Nos. 137,456–7; Nov. 23; v. 280; p. 800.
Hats, Men's. Brigham-Hopkins Company. No. 128,642; Jan. 13; v. 270; p. 336.
Hats, Men's. Denzer, Goodhart & Co. No. 137,190; Nov. 23; v. 280; p. 792.
Hats, Men's. Hodshon Hat Co. No. 133,703; Aug. 3; v. 277; p. 173.
Hats, Men's. Mt. Tom Hat Manufacturing Company. No. 134,746; Sept. 14; v. 278; p. 358.
Hats, Men's and boys'. Anthracite Hat Co. No. 136,305; Nov. 2; v. 280; p. 177.
Hats, Men's felt. Frank Schoble & Co. No. 133,179; July 13; v. 276; p. 408.
Hats, Pattern-. Lynn-Kerr & Co. No. 134,723; Sept. 14; v. 278; p. 357.
Hats, shoes, overcoats, dresses, &c. A. M. Malouf. No. 130,811; May 4; v. 274; p. 187.
Hats, Trimmed. Patrician Hat Corporation. No. 136,147; Oct. 26; v. 279; p. 723.
Hats, Trimmed and untrimmed. Mayer & Goldsmith. No. 133,463; July 27; v. 276; p. 770.
Hats, Women's. B. B. Brewer. No. 134,896; Sept. 21; v. 278; p. 529.
Hats, Women's. Ogus Rabinovich & Ogus Company. No. 130,880; Apr. 20; v. 273; p. 622.
Hats, Women's. Sears, Roebuck and Co. No. 134,799; Sept. 14; v. 278; p. 360.
Hats, Women's, misses', and children's trimmed. David Baird and Son. No. 133,099; July 13; v. 276; p. 401.
Hatpins, scarf and baby pins. Stern Brothers & Company. No. 132,257; June 15; v. 275; p. 620.
Headlight-glasses. Warner Lenz Company. No. 130,246; Apr. 13; v. 273; p. 404.
Headlight lenses, Automobile-. Holoplane Glass Co. No. 131,997; June 8; v. 275; p. 414.
Headlight lenses, Automobile-. C. A. Shaler Company. No. 130,235; Apr. 13; v. 273; p. 404.
Headlights and turbo-generators, Electric. Schroeder Headlight & Generator Co. Nos. 130,406–7; Apr. 20; v. 273; p. 623.
Headwear for men and boys. City Cap Co. No. 132,116; June 15; v. 275; p. 616.
Healing compounds. D. A. Bickell. No. 128,628; Jan. 13; v. 270; p. 336.
Healing-powders, Antiseptic. Allaire, Woodward & Co. No. 138,414; Dec. 28; v. 281; p. 781.
Hearing, Mechanical devices used as an aid to. E. B. Meyrowitz, Inc. No. 133,001; July 6; v. 276; p. 203.
Heat-regulating devices, Electric. Electric Controller Co. No. 137,781; Dec. 7; v. 281; p. 195.
Heaters. Hemp & Co. (Corp.) No. 132,702; June 29; v. 275; p. 1016.
Heaters and furnaces, Coal-burning. Michigan Service Corporation. No. 133,002; July 6; v. 276; p. 203.
Heaters and parts thereof. J. H. Grayson Mfg. Co. No. 133,134; July 13; v. 276; p. 402.
Heaters, Automatic gas water-. T. Muehleisen. No. 129,996; Mar. 16; v. 272; p. 589.
Heaters, cookers, &c., Electric. Electric & Ordnance Accessories Company. No. 128,681; Jan. 13; v. 270; p. 338.
Heaters, Electric. Westinghouse Electric & Manufacturing Company. No. 128,900; Jan. 13; v. 270; p. 344.
Heaters, Electric air, water, and immersion. Majestic Electric Development Co. No. 130,809; May 4; v. 274; p. 187.
Heaters for air, Electrical. J. W. Tewksbury. No. 133,874; Aug. 3; v. 277; p. 179.
Heaters for hydrocarbon-motors, Mixture-. Packard Motor Car Company. No. 135,766; Oct. 19; v. 279; p. 530.
Heaters, Gas-. J. I. Robin. No. 134,432; Aug. 31; v. 277; p. 974.
Heaters, Gas and oil hot-water. Holyoke Heater Company. No. 135,459; Oct. 12; v. 279; p. 343.
Heaters, Natural and artificial gas water-. Cleveland Heater Co., The. No. 135,953; Oct. 26; v. 279; p. 717.
Heaters, stoves, ranges. Quakertown Stove Works. No. 132,785; June 29; v. 275; p. 1018.
Heaters, transformers, &c., Electric. Empire Transformer Company. No. 137,591; Nov. 30; v. 280; p. 997.
Heating and ventilating apparatus. Moline Heat. No. 128,793; Jan. 13; v. 270; p. 341.
Heating and ventilating units. Ilg Electric Ventilating Company. No. 134,977; Sept. 21; v. 278; p. 532.
Heating apparatus and parts thereof. Power Specialty Company. No. 137,083; Nov. 16; v. 280; p. 586.
Heating, lighting, and ventilating apparatus. Hammer-Bray Co. No. 133,139; July 13; v. 276; p. 402.
Heel and sole edge finishing machines and parts thereof. United-Xpedite Finishing Company. No. 138,148; Dec. 14; v. 281; p. 402.
Heel and toe plates for shoes. L. Hasel. No. 132,960; July 6; v. 276; p. 201.
Heel-grips. W. Guinzburg. No. 130,181; Apr. 13; v. 273; p. 402.
Heels and heel-cushions, Yielding. Melville Shoe Corporation. No. 135,488; Oct. 12; v. 279; p. 344.
Herb bitters. S. Jacobs. No. 129,758; Mar. 9; v. 272; p. 364.
Herb combination for use in the treatment of certain named diseases. E. Beall. No. 131,281; May 11; v. 274; p. 399.
Herbaceous mixtures for treating asthma, &c. F. T. Stone. No. 132,547; June 22; v. 275; p. 823.
Hides and leather. American National Shoe & Leather Corp. Nos. 130,146–7; Apr. 13; v. 273; p. 401.
Hides and leather. American National Shoe and Leather Corporation. No. 137,926; Dec. 14; v. 281; p. 395.
Hides and leather. Kullman, Salz & Co. No. 131,162; May 4; v. 274; p. 198.
Hides and leather. Kullman, Salz & Co. Nos. 132,724–5; June 29; v. 275; p. 1016.
Hides and leather. Kullman, Salz & Co. No. 132,984; July 6; v. 276; p. 202.
Hides and leather. Kullman, Salz & Co. No. 134,705; Sept. 14; v. 278; p. 357.
Hides and leather. Kullman, Salz & Co. No. 136,062; Oct. 26; v. 279; p. 720.
Hides and leather, Raw. American Woolen Products Co. Nos. 135,589–90; Oct. 19; v. 279; p. 525.
Hides and leathers. Kullman, Salz & Co. No. 137,299; Nov. 23; v. 280; p. 795.
Hides for shoe-uppers, Tanned leather. Anchor Leather Co. No. 133,350; July 27; v. 276; p. 767.
Hides, skins, and raw furs. L. A. Scandrett. No. 134,795; Sept. 14; v. 278; p. 360.
Hides, skins, and unwrought leather. Handley Page Limited. No. 132,697; June 29; v. 275; p. 1016.
Hinges. Soss Manufacturing Co. No. 137,474; Nov. 23; v. 280; p. 800.
Hog-cholera medicine. D. Sorensen. No. 128,860; Jan. 13; v. 270; p. 343.
Hog-cholera medicine. Interstate Stock Remedy Company. No. 129,756; Mar. 9; v. 272; p. 364.
Hog-waterers. The Hartman Company. No. 130,745; May 4; v. 274; p. 185.
Hogs, Live. F. H. Hassler. No. 128,725; Jan. 13; v. 270; p. 339.
Hoisting-towers, Construction. J. J. Wuellner & Son. No. 131,005; May 4; v. 274; p. 193.
Hoists and trolleys. Wright Mfg. Co. No. 128,905; Jan. 13; v. 270; p. 345.
Hoists, pulleys, grease-cups, &c. Chelsea Engineering Sales Corporation. No. 137,147; Nov. 23; v. 280; p. 791.
Hollow tile. R. S. Requa. No. 136,599; Nov. 2; v. 280; p. 186.
Hollow ware, Sterling silver. Weber, Wagner & Benson. No. 131,878; May 25; v. 274; p. 835.
Hones. Societa Ceramica Richard-Ginori. Nos. 136,632–3; Nov. 2; v. 280; p. 187.
Honey. The A. I. Root Co. No. 138,101; Dec. 14; v. 281; p. 400.
Honey, peanut-butter, and ice-cream cones. Standard Products Supply Co. No. 131,628; May 18; v. 274; p. 608.
Honey. F. H. Richardson. No. 136,169; Oct. 26; v. 279; p. 723.
Honor-rolls, bas-reliefs, and memorial tablets. Dymalkon Metals Corporation. No. 130,707; May 4; v. 274; p. 184.
Hoof-dressing, &c. W. Pidgeon. No. 129,048; Jan. 20; v. 270; p. 475.
Hooks and eyes. The De Long Hook and Eye Company. No. 131,076; May 4; v. 274; p. 195.
Hooks and eyes. The De Long Hook and Eye Company. No. 131,898; May 25; v. 274; p. 835.
Hops. Geo. Herrmann Company. No. 134,377; Aug. 31; v. 277; p. 972.
Hops, California. A/D Det Almindelige Handelskompagni. No. 131,077; May 4; v. 274; p. 195.
Horns, Electric. American Electric Co. No. 136,296; Nov. 2; v. 280; p. 177.
Horns, Signal-. American Electric Co. Nos. 137,089–90; Nov. 23; v. 280; p. 789.
Horological instruments. Lenox Jewelry Co. No. 130,199; Apr. 13; v. 273; p. 408.
Horological instruments and parts. Eterna Watch Works. No. 136,798; Nov. 9; v. 280; p. 379.
Horse and mule shoes. Phoenix Horse Shoe Co. No. 130,102; Apr. 6; v. 273; p. 181.
Horse-collar. Harpham Bros. Co. No. 133,697; Aug. 3; v. 277; p. 173.
Hose. L. B. Alling. No. 130,601; May 4; v. 274; p. 181.
Hose. L. B. Alling. No. 131,013; May 4; v. 274; p. 193.
Hose. Slatedale Knitting Mills. Nos. 130,409–10; Apr. 20; v. 273; p. 623.
Hose. Slatedale Knitting Mills. No. 130,922; May 4; v. 274; p. 191.
Hose and pipe fittings, &c. The Cleveland Pneumatic Tool Company. No. 137,158; Nov. 23; v. 280; p. 791.
Hose and sheet-packing. The B. F. Goodrich Company. No. 138,250; Dec. 21; v. 281; p. 564.
Hose-couplings. Independent Pneumatic Tool Company. No. 129,168; Jan. 27; v. 270; p. 614.
Hose made of fabric and rubber. United States Rubber Company. No. 133,858; Aug. 3; v. 277; p. 178.

Digitized by Google

Hose made wholly or in part of rubber. The Goodyear Tire & Rubber Company. No. 135,180; Sept. 21; v. 278; p. 539.
Hose, Men's half-. The Liberty Hosiery Company. No. 134,997; Sept. 21; v. 278; p. 533.
Hose, sheet-packing of rubber and fabric, Fabric and rubber. The Gutta Percha & Rubber Manufacturing Company. No. 136,821; Nov. 9; v. 280; p. 379.
Hose-supporter. Ely & Walker Dry Goods Co. No. 130,295; Apr. 20; v. 273; p. 620.
Hose-supporters. Warner Bros. No. 130,438; Apr. 20; v. 273; p. 624.
Hosiery. Alexander & Irwin Co. No. 134,875; Sept. 21; v. 278; p. 529.
Hosiery. Ambridge Knitting Co. No. 129,112; Jan. 27; v. 270; p. 613.
Hosiery. American Trading Company. Nos. 129,116–17; Jan. 27; v. 270; p. 613.
Hosiery. Apex Hosiery Company. No. 129,118; Jan. 27; v. 270; p. 613.
Hosiery. T. E. Brown. No. 130,269; Apr. 20; v. 273; p. 619.
Hosiery. Campe Corporation. No. 131,718; May 25; v. 274; p. 830.
Hosiery. The Charles William Stores. No. 135,822; Oct. 19; v. 279; p. 532.
Hosiery. Chipman Knitting Mills. No. 128,331; Jan. 6; v. 270; p. 178.
Hosiery. Chipman Knitting Mills. No. 129,134; Jan. 27; v. 270; p. 613.
Hosiery. Chipman Knitting Mills. No. 130,673; May 4; v. 274; p. 183.
Hosiery. Chipman Knitting Mills. No. 131,066; May 4; v. 274; p. 195.
Hosiery. Chipman Knitting Mills. No. 132,114; June 15; v. 275; p. 816.
Hosiery. Chipman Knitting Mills. Nos. 132,331–5; June 22; v. 275; p. 816.
Hosiery. Chipman Knitting Mills. Nos. 135,633–5; Oct. 19; v. 279; p. 526.
Hosiery. Chipman Knitting Mills. Nos. 138,228–9; Dec. 21; v. 281; p. 563.
Hosiery. Chipman Knitting Mills. No. 138,435; Dec. 28; v. 281; p. 781.
Hosiery. Chilman Knitting Mills. No. 135,945; Oct. 26; v. 279; p. 717.
Hosiery. Consolidated Mills Company. No. 138,439; Dec. 28; v. 281; p. 782.
Hosiery. Cooper Underwear Company. No. 134,924; Sept. 21; v. 278; p. 530.
Hosiery. Daisy Whitehead Knitting Co. Nos. 137,519–20; Nov. 23; v. 280; p. 805.
Hosiery. Dalton Hosiery Mills. No. 133,232; July 20; v. 276; p. 590.
Hosiery. Daum Rogers Spritzer Co. No. 130, 694; May 4; v. 274; p. 184.
Hosiery. Davenport Hosiery Mills. No. 137,183; Nov. 23; v. 280; p. 792.
Hosiery. Elite Hosiery Company. No. 137,212; Nov. 23; v. 280; p. 792.
Hosiery. Encore Hosiery Co. No. 131,748; May 25; v. 274; p. 831.
Hosiery. Everwear Hosiery Company. No. 135,369; Sept. 28; v. 278; p. 707.
Hosiery. The Fair. No. 133,127; July 13; v. 276; p. 402.
Hosiery. Finery Hosiery Corporation. No. 132,143; June 15; v. 275; p. 617.
Hosiery. R. J. Fisher. No. 128,695; Jan. 13; v. 270; p. 328.
Hosiery. I. Fisher Son & Co. No. 134,944; Sept. 21; v. 278; p. 531.
Hosiery. Fulfashon Hosiery Company. Nos. 134,651–2; Sept. 14; v. 278; p. 355.
Hosiery. The Futurist Company. No. 135,445; Oct. 12; v. 279; p. 343.
Hosiery. Goodwear Hosiery Co. No. 130,308; Apr. 20; v. 273; p. 620.
Hosiery. W. T. Grant Co. No. 132,951; July 6; v. 276; p. 201.
Hosiery. W. T. Grant Co. No. 134,665; Sept. 14; v. 278; p. 356.
Hosiery. S. Haiff & Co. No. 134,673; Sept. 14; v. 278; p. 356.
Hosiery. Holeproof Hosiery Co. No. 136,467; Nov. 2; v. 280; p. 182.
Hosiery. Hosiery Mills Corporation. No. 128,883; Jan. 13; v. 270; p. 344.
Hosiery. Ideal Hosiery Co. No. 129,474; Feb. 24; v. 271; p. 679.
Hosiery. James H. Dunham & Co. No. 132,361; June 22; v. 275; p. 817.
Hosiery. John M. Given, Inc. No. 130,733; May 4; v. 274; p. 185.
Hosiery. Johnson City Mills. No. 134,694; Sept. 14; v. 278; p. 357.
Hosiery. Kennesaw Hosiery Company. No. 130,529; Apr. 27; v. 273; p. 803.
Hosiery. Knoxville Knitting Mills Company. No. 137,295; Nov. 23; v. 280; p. 795.
Hosiery. H. Kreps. No. 137,298; Nov. 23; v. 280; p. 795.
Hosiery. L. Landenberger. No. 128,422; Jan. 6; v. 270; p. 181.
Hosiery. Marshall Field & Company. No. 138,483; Dec. 28; v. 281; p. 783.
Hosiery. Mitchell Hosiery Company. No. 133,470; July 27; v. 276; p. 770.
Hosiery. Muller Export Company. No. 134,747; Sept. 14; v. 278; p. 358.
Hosiery. National Mills. No. 131,198; May 4; v. 274; p. 199.
Hosiery. New Haven Knitting Mills. No. 137,347; Nov. 23; v. 280; p. 796.
Hosiery. Nomend Hosiery Mills, M. B. Laubach Co. No. 132,218; June 15; v. 275; p. 619.
Hosiery. Nu-Tex Hosiery Co. No. 135,292; Sept. 28 v. 278; p. 704.
Hosiery. Orange Hosiery Mills. No. 132,473; June 22; v. 275; p. 821.
Hosiery. Paterson Brewing and Malting Company. No. 137,673; Nov. 30; v. 280; p. 999.
Hosiery. Patrick, F. A., & Co. No. 136,149; Oct. 26; v. 279; p. 723.
Hosiery. Ritter Hosiery Company. No. 130,886; May 4; v. 274; p. 189.
Hosiery. E. W. Robischon Inc. No. 135,312; Sept. 28; v. 278; p. 704.
Hosiery. Rodgers Hosiery Company. No. 133,026; July 6; v. 276; p. 203.
Hosiery. Rodgers Hosiery Company. No. 133,801; Aug. 3; v. 277; p. 177.
Hosiery. J. F. Rohr. No. 135,788; Oct. 19; v. 279; p. 531.
Hosiery. D. Salwen. No. 128,511; Jan. 6; v. 270; p. 184.
Hosiery. S. A. Singer. No. 130,921; May 4; v. 274; p. 191.
Hosiery. E. T. Slattery Co. No. 138,513; Dec. 28; v. 281; p. 784.
Hosiery. Smith, M. E., & Co. No. 136,631; Nov. 2; v. 280; p. 187.
Hosiery. A. Stieglitz & Co. No. 130,582; Apr. 27; v. 273; p. 805.
Hosiery. Chas. D. Stone & Co. No. 128,874; Jan. 13; v. 270; p. 344.
Hosiery. Strutwear Knitting Company. No. 131,848; May 25; v. 274; p. 834.
Hosiery. Terre Hill Hosiery Company. No. 129,550; Feb. 24; v. 271; p. 681.
Hosiery. E. M. Townsend & Co. No. 130,947; May 4; v. 274; p. 191.
Hosiery. United Hosiery Mills Corporation. Nos. 128,884–5; Jan. 13; v. 270; p. 344.
Hosiery. United Hosiery Mills Corporation. No. 129,233; Jan. 27; v. 270; p. 617.
Hosiery. United Mills Company. No. 136,675; Nov. 2; v. 280; p. 189.
Hosiery. Universal Merchandise Co. No. 130,962; May 4; v. 274; p. 192.
Hosiery. Vanity Fair Silk Mills. No. 130,430; Apr. 20; v. 273; p. 624.
Hosiery. L. C. Vaughan. No. 129,914; Mar. 9; v. 272; p. 369.
Hosiery. J. P. Voorhees. No. 137,400; Nov. 23; v. 280; p. 798.
Hosiery. A. V. Victorius & Company. No. 136,239; Oct. 26; v. 279; p. 725.
Hosiery. J. P. Voorhees. No. 135,843; Oct. 19; v. 279; p. 533.
Hosiery. Joseph P. Voorhees. No. 136,243; Oct. 26; v. 279; p. 726.
Hosiery. Walker Hosiery Mills Co. No. 132,269; June 15; v. 275; p. 621.
Hosiery. W. B. Webb. No. 138,367; Dec. 21; v. 281; p. 567.
Hosiery. G. E. Weber. No. 129,317; Feb. 10; v. 271; p. 357.
Hosiery. G. E. Weber. No. 138,366; Dec. 21; v. 281; p. 567.
Hosiery. H. G. Wendland. No. 136,692; Nov. 2; v. 280; p. 189.
Hosiery. Wolfinger Knitting Mills. No. 138,372; Dec. 21; v. 281; p. 567.
Hosiery. A. A. Wuest. No. 133,347; July 20; v. 276; p. 593.
Hosiery and children's rompers. J. E. Baer. No. 133,902; Aug. 10; v. 277; p. 385.
Hosiery and underwear. Rivoli Silk Hosiery Co. No. 134,323; Aug. 24; v. 277; p. 781.
Hosiery and knitted underwear, Children's and misses'. Schott Brothers. No. 136,925; Nov. 9; v. 280; p. 383.
Hosiery and knitted underwear. J. F. Comins & Co. No. 137,578; Nov. 30; v. 280; p. 996.
Hosiery and knitted underwear, Ladies'. Schott Brothers. No. 136,618; Nov. 2; v. 280; p. 187.
Hosiery and underwear. E. R. Ballis & Bro. No. 137,108; Nov. 23; v. 280; p. 789.
Hosiery and underwear. Comfurta Hosiery Co. No. 135,418; Oct. 12; v. 279; p. 342.
Hosiery and underwear for men, women, and children. C. W. Taves Co. No. 133,329; July 20; v. 276; p. 593.
Hosiery and women's underwear. T. J. Mulcahy. No. 136,545; Nov. 2; v. 280; p. 185.

Digitized by Google

Hosiery, Children's. John M. Given, Inc. No. 130,307; Apr. 20; v. 273; p. 620.
Hosiery, Children's. John M. Given, Inc. No. 131,122; May 4; v. 274; p. 197.
Hosiery for boys and girls. Mandel & Cohen. No. 130,355; Apr. 20; v. 273; p. 622.
Hosiery for men and women. W. B. Seidel. No. 133,615; Aug. 3; v. 277; p. 177.
Hosiery for men, women, and children. Chas. Chipman's Sons Co. No. 129,439; Feb. 24; v. 271; p. 678.
Hosiery for women. J. F. Byrne. Nos. 131,058-9; May 4; v. 274; p. 195.
Hosiery for women and children. Kramer Hosiery Co. No. 129,484; Feb. 24; v. 271; p. 679.
Hosiery for women and children. Riverside Hosiery Mills. No. 136,172; Oct. 26; v. 279; p. 724.
Hosiery, knit gloves, mittens, hockey-caps, knit socks, and underwear. M. L. Pollard. No. 135,774; Oct. 19; v. 279; p. 531.
Hosiery, Ladies' and infants'. C. Fall. No. 135,437; Oct. 12; v. 279; p. 343.
Hosiery, Men's. Kennesaw Hosiery Company. No. 132,183; June 15; v. 275; p. 618.
Hosiery, Men's. S. S. Miller. No. 137,915; Dec. 7; v. 281; p. 201.
Hosiery, Men's. S. M. Wertheimer. No. 135,160; Sept. 21; v. 278; p. 537.
Hosiery, Men's and boys'. S. J. Levy & Sons. No. 137,908; Nov. 23; v. 280; p. 795.
Hosiery, men's collars, dress-shirts, &c. Johnston Dry Goods Co. No. 130,768; May 4; v. 274; p. 186.
Hosiery, sweaters, bathing-suits, &c. A. J. Armstrong Co. No. 132,086; June 15; v. 275; p. 615.
Hosiery, underwear, &c. Ely & Walker D. G. Co. No. 128,973; Jan. 20; v. 270; p. 473.
Hosiery, underwear, and sweaters, and work-shirts for men and boys, Knitted. O. L. Stanard Dry Goods Company. No. 131,241; May 4; v. 274; p. 200.
Hosiery, underwear, shirts, caps, &c. Borets Mercantile Company. No. 137,559; Nov. 30; v. 280; p. 996.
Hosiery, underwear, sweaters. French Knitting Company. No. 129,458; Feb. 24; v. 271; p. 678.
Hosiery, Women's. Wayne Knitting Mills. No. 133,285; July 20; v. 276; p. 591.
Hosiery, Women's and children's. John M. Given, Inc. No. 136,009; Oct. 26; v. 279; p. 719.
Hosiery, Women's and children's. L. Propper. No. 132,230; June 15; v. 275; p. 619.
Hosiery, Women's and misses'. S. J. Levy & Sons. No. 137,309; Nov. 23; v. 280; p. 715.
House organ issued monthly. Hydraulic Pressed Steel Company. No. 129,751; Mar. 9; v. 272; p. 364.
House organ published monthly. The Waltham Grinding Wheel Co. No. 137,737; Nov. 30; v. 280; p. 1001.
House organs, Weekly. Goodyear Tire & Rubber Company. No. 129,731; Mar. 9; v. 272; p. 263.
Houses, Knockdown. J. M. Higman. No. 129,987; Mar. 16; v. 272; p. 539.
Hydraulic machinery and equipment. Metalwood Manufacturing Co. No. 130,831; May 4; v. 274; p. 188.
Hydrometers. Taylor Instrument Companies. No. 135,540; Oct. 12; v. 279; p. 346.
Hydrosulfite, Anhydrous sodium. Rohn & Haas Company. No. 131,598; May 18; v. 274; p. 607.
Hypophosphites compound and a non-alcoholic tonic. Continental Drug Corporation. No. 128,658; Jan. 13; v. 270; p. 387.
Ice, Artificial. General Necessities Corporation. No. 134,366; Aug. 31; v. 277; p. 972.
Ice-cream. Detroit Creamery Company. No. 134,231; Aug. 24; v. 277; p. 777.
Ice-cream. Ivan B. Nordhem Company. No. 133,293; July 20; v. 276; p. 591.
Ice-cream. Meiller-Ferry Co. No. 129,374; Feb. 17; v. 271; p. 508.
Ice-cream. Rochester Ice Cream Company. No. 138,500; Dec. 28; v. 281; p. 783.
Ice-cream. Sayre Creamery & Cold Storage Co. No. 128,513; Jan. 6; v. 270; p. 184.
Ice-cream. Tampa Dairy Co. No. 130,941; May 4; v. 274; p. 191.
Ice-cream. The Reid Ice Cream Company. No. 134,429; Aug. 31; v. 277; p. 974.
Ice-cream and butter. Duluth Creamery & Produce Company. No. 134,356; Aug. 31; v. 277; p. 971.
Ice-cream and charlotte russe. The Reid Ice Cream Company. No. 134,428; Aug. 31; v. 277; p. 974.
Ice-cream and ices. Arctic Ice & Coal Co. No. 131,024; May 4; v. 274; p. 194.
Ice-cream and ices. Fresno Brewing Co. No. 130,724; May 4; v. 274; p. 185.
Ice-cream and ices, Substance used in the manufacture of. W. B. Wood Mfg. Co. No. 129,941; Mar. 9; v. 272; p. 370.
Ice-cream, butter, candy, &c. Cairo Food Products Company. No. 133,924; Aug. 10; v. 277; p. 386.
Ice-cream, butter, &c. City Consumers Co. No. 128,653; Jan. 13; v. 270; p. 337.
Ice-cream cones. Consolidated Wafer Company. No. 128,959; Jan. 20; v. 270; p. 472.
Ice-cream cones. G. G. Cornwell & Son. No. 128,340; Jan. 6; v. 270; p. 179.
Ice-cream cones. S. G. Hagopian. No. 130,742; May 4; v. 274; p. 185.
Ice-cream cones. Royal Cone Co. No. 132,045; June 8; v. 275; p. 416.
Ice-cream cones. J. Q. Stephens. No. 137,480; Nov. 23; v. 280; p. 801.
Ice-cream cones. Superior Cone Company. No. 129,226; Jan. 27; v. 270; p. 616.
Ice-cream, fancy chocolates, and creamery-butter. Arctic Cream Co. No. 134,213; Aug. 24; v. 277; p. 777.
Ice-cream, frozen custards, Ices. The Hendler Creamery Co. No. 128,401; Jan. 6; v. 270; p. 180.
Ice-cream, frozen custard, and ices. Hendler Creamery Company. No. 134,376; Aug. 31; v. 277; p. 972.
Ice-cream toppings. Marshalltown Syrup & Sugar Company. No. 135,183; Sept. 21; v. 278; p. 540.
Ice-cream, &c., Powder for. W. B. Wood Mfg. Co. No. 131,001; May 4; v. 274; p. 193.
Ice-cream, Stabilizing agent employed in the manufacture of. B. Heller and Company. No. 134,375; Aug. 31; v. 277; p. 972.
Ice-creams, including water-ice, &c. Smith & Clark Company. No. 132,809; June 29; v. 275; p. 1019.
Ice-making machines. Arctic Ice Machine Company. No. 129,417; Feb. 24; v. 271; p. 677.
Ichthyol. Atlantic Refining Company. No. 128,828; Feb. 17; v. 271; p. 507.
Icing for cake and bread. E. Probst. No. 130,226; Apr. 13; v. 273; p. 403.
Icings and toppings for foods. White Stokes Co. No. 130,992; May 4; v. 269; p. 193.
Idlers and rolls for conveying machinery. Link-Belt Company. No. 133,721; Aug. 3; v. 277; p. 174.
Ignition and starting apparatus for internal-combustion engines, &c. American Bosch Magneto Corporation. No. 129,974; Mar. 16; v. 272; p. 5[illegible].
Ignition-locks for internal-combustion engines. B. & W. Company. No. 137,135; Nov. 23; v. 280; p. 790.
Ignition-magnetos. Webster Electric Company. No. 131,265; May 4; v. 274; p. 201.
Ignition systems for internal-combustion engines and condensers. Philips-Britannia [illegible]. No. 136,152; Oct. 26; v. 279; p. 723.
Incense. F. D. Burton. No. [illegible]; Jan. 6; v. 270; p. 178.
Incense. S. C. Ghosh. No. 134,436; Aug. 31; v. 277; p. 974.
Incubators and brooders. The Buckeye Incubator Company. No. 137,960; Dec. 14; v. 281; p. 396.
Infants' wear. Aaron and Hall. No. 130,451; Apr. 27; v. 273; p. 801.
Inhalers. Frederick Heilman Company. No. 135,690; Oct. 19; v. 279; p. 528.
Inhalers. W. H. Schaefer. No. 130,906; May 4; v. 274; p. 190.
Injector-parts. William Sellers & Company. No. 137,444; Nov. 23; v. 280; p. 799.
Ink-bottle holders. Ledder & Probst, Inc. No. 137,529; Nov. 30; v. 280; p. 998.
Ink, Concentrated writing-. La Pierre Manufacturing Co. No. 132,185; June 15; v. 275; p. 618.
Ink, Fludd writing-. The Economy Ink Company. No. 132,668; June 29; v. 275; p. 1015.
Ink for making writing fluid, Condensed. Jasmine Ink Corporation. No. 131,506; May 18; v. 274; p. 604.
Ink in powdered form, Writing-. J. F. Soby. No. 135,888; Sept. 28; v. 278; p. 705.
Ink in tablet form. Gosselin Trading Corporation. No. 131,762; May 25; v. 274; p. 831.
Ink in tablet form. Gosselin Trading Corporation. No. 133,979; Aug. 10; v. 277; p. 287.
Ink, ink-powders, &c., Prepared. R. G. Jolly. No. 129,759; Mar. 9; v. 272; p. 364.
Ink, Printing-. A. M. Collins Manufacturing Company. No. 132,649; June 29; v. 275; p. 1014.
Ink, Printing-. Ultramares Corporation. No. 129,910; Mar. 9; v. 272; p. 368.
Ink-tablets. Chester Novelty Co. No. 129,647; Mar. 9; v. 272; p. 361.
Ink, Writing-. V. & L. Chemical Co. No. 135,632; Oct. 19; v. 279; p. 526.
Ink, Writing-. H. Julius. No. 129,760; Mar. 9; v. 272; p. 364.
Ink, Writing and engrossing. E. Goodwirth. No. 134,062; Sept. 14; v. 278; p. 356.
Inks. R. T. Furman. No. 131,756; May 25; v. 274; p. 831.
Inks and ink-sticks. H. L. Perez. No. 135,040. Sept. 21; v. 278; p. 534.
Inks of all kinds, metal-stamp inks, &c., Writing-. Pomeroy Ink Manufacturing Co. Nos. 134,768-9; Sept. 14; v. 278; p. 359.
Inks, Photo-engravers'. J. T. Barlow. No. 133,904; Aug. 10; v. 277; p. 185.
Inks, Printing-. J. M. Huber No. 134,974; Sept. 21; v. 278; p. 532.
Inks, Printing-. Sigmund Ullman Company. No. 136,625; Nov. 2; v. 280; p. 187.
Inks, Printing and lithographic. The Eagle Printing Ink Co. No. 129,686; Mar. 9; v. 272; p. 362.
Inks, Writing-. American Ink Company. No. 134,566; Sept. 14; v. 278; p. 353.

Digitized by Google

Inkstands and inkwells. Sengbusch Self-Closing Inkstand Company. No. 132,242; June 15; v. 275; p. 620.
Insect-powder. H. Kaye. No. 131,511; May 18; v. 274; p. 605.
Insects, Machines for injecting fluid into the ground for exterminating. J. Conceição. No. 130,681; May 4; v. 274; p. 183.
Insecticide. R. E. Buchtel. No. 131,715; May 25; v. 274; p. 830.
Insecticide. A. O. Chemical Co. No. 134,611; Sept. 14; v. 278; p. 854.
Insecticide. A. Claassen, Jr. No. 138,436; Dec. 28; v. 281; p. 781.
Insecticide. Commercial Chemical Co. No. 129,654; Mar. 9; v. 272; p. 361.
Insecticide. General Chemical Company. No. 132,383; June 22; v. 275; p. 818.
Insecticides. Graylawn Farms Company. No. 134,959; Sept. 21; v. 278; p. 531.
Insecticide. Kil-Tone Company. No. 128,749; Jan. 13; v. 270; p. 340.
Insecticides. A. V. McConaghy. No. 134,513; Sept. 7; v. 278; p. 160.
Insecticide. G. B. McVay, Jr. No. 129,776; Mar. 9; v. 272; p. 365.
Insecticide and fungicide. J. M. Jones. No. 134,177; Aug. 17; v. 277; p. 582.
Insecticide and fungicide. Standard Chemical Works. Nos. 131,626–7; May 18; v. 274; p. 608.
Insecticide and germicide. Dupuis Chemical Co. No. 131,303; May 11; v. 274; p. 399.
Insecticide and germicide, deodorizer, and disinfectant. Commercial Chemical Co. Nos. 135,642–3; Oct. 19; v. 279; p. 527.
Insecticide and vermin-exterminator. C. J. Martin. No. 134,734; Sept. 14; v. 278; p. 358.
Insecticide, germicidal, and air-purifying preparations. The Chamberlain-Huber Chemical Co. No. 138,432; Dec. 28; v. 281; p. 781.
Insecticide, Liquid Gets 'Em Co. No. 132,384; June 22; v. 275; p. 818.
Insecticide, Plant-bug [illegible] Commercial Chemical Co. No. 129,442; Feb. 24; v. 2[illegible] p. 678.
Insecticides. Ameri[illegible]gricultural Chemical Co. No. 129,415; Feb. 24; v. 271; p. 677.
Insecticides. W. Damaske. No. 128,672; Jan. 13; v. 270; p. 337.
Insecticides. J. G. Grossenbacher. No. 131,473; May 18; v. 274; p. 603.
Insecticides. Henry Heil Chemical Company. No. 131,320; May 11; v. 274; p. 400.
Insecticides. J. A. Kemmler. No. 129,479; Feb. 24; v. 271; p. 679.
Insecticides. Leggett & Brother. No. 138,476; Dec. 28; v. 281; p. 783.
Insecticides. McDougall Brothers. No. 131,543; May 18; v. 274; p. 606.
Insecticides. Nitrate Agencies Company. No. 131,565; May 18; v. 274; p. 606.
Insecticides. Number 13 Chemical Co. No. 132,469; June 22; v. 275; p. 821.
Insecticides. Randall-McLoughlin Co. No. 136,596; Nov. 2; v. 280; p. 186.
Insecticides. Shiley Chemical Co. No. 128,853; Jan. 13; v. 270; p. 343.
Insecticides. Shoemaker & Busch. No. 132,524; June 22; v. 275; p. 823.
Insecticides. Zin Mfg. Company. No. 132,870; June 29; v. 275; p. 1021.
Insecticides and disinfectants. Frederick Disinfectant Company. No. 129,278; Feb. 10; v. 271; p. 355.
Insecticides and fungicides. A. B. Ansbacher & Company. No. 128,609; Jan. 13; v. 270; p. 335.
Insecticides and fungicides. A. B. Ansbacher & Company. No. 132,613; June 29; v. 275; p. 1018.
Insecticides, deodorizers, &c. Haynes Chemical Corporation. No. 128,726; Jan. 13; v. 270; p. 339.
Insecticides, disinfectants, &c. Utica Insecticide Co., Inc. No. 136,972; Nov. 9; v. 280; p. 384.
Insecticides, disinfectants, deodorizers. C. M. Gerhold. No. 128,711; Jan. 13; v. 270; p. 339.
Insecticides for dogs and cats. G. T. Harz. No. 135,256; Sept. 28; v. 278; p. 703.
Insecticides, ointments, &c. Graylawn Farms Company. No. 129,733; Mar. 9; v. 272; p. 364.
Insoles for boots, shoes, &c. Peterson-Franzen & Company. No. 129,524; Feb. 24; v. 271; p. 680.
Insoles made of felt composition. United States Rubber Company. No. 135,838; Oct. 19; v. 279; p. 533.
Instruments for indicating, measuring, and recording the velocity of flowing streams. The Pitometer Company. No. 134,265; Aug. 24; v. 277; p. 778.
Insulated-wire conductors. Tubular Woven Fabric Company. No. 134,108; Aug. 10; v. 277; p. 391.
Insulating material. John C. Dolph Company. No. 133,956; Aug. 10; v. 277; p. 387.
Insulating materials for electrical purposes. J. E. Dockendorff & Co. No. 131,736; May 25; v. 274; p. 830.
Insulation and insulating objects, Electrical. Diamond State Fibre Company. No. 133,953; Aug. 10; v. 277; p. 387.
Insulation, Structural material for. American Balsa Co. Nos. 130,144–5; Apr. 13; v. 273; p. 401.
Insulators for electric conductors, Splice-. The Elasticap Company. No. 135,660; Oct. 19; v. 279; p. 527.
Insulators for high-tension insulation. The Locke Insulator Manufacturing Company. No. 134,717; Sept. 14; v. 278; p. 357.
Insulators made of porcelain, Electric. Taylor, Tunnicliff and Company. No. 133,060; July 6; v. 276; p. 204.
Interest tables, Yearly-. S. G. Miller. No. 133,467; July 27; v. 276; p. 770.
Iron and steel. Federal Tool & Alloy Steel Corporation. No. 131,307; May 11; v. 274; p. 400.
Iron and steel. Federal Tool & Alloy Steel Corporation. No. 133,129; July 13; v. 276; p. 402.
Iron and steel, plain, corrugated, round, square, and flat. Tennessee Coal, Iron & Railroad Company. No. 134,195; Aug. 17; v. 277; p. 582.
Iron and steel plates, billets, &c. Alan Wood Iron & Steel Company. No. 129,111; Jan. 27; v. 270; p. 613.
Iron and steels. John Kenyon & Co. (Sheffield). Nos. 131,516–18; May 18; v. 274; p. 605.
Iron, Staybolt. Logan Iron & Steel Company. No. 137,315; Nov. 23; v. 280; p. 796.
Iron, steel, and sheet-metal products and forgings. American Steel Export Company. No. 129,114; Jan. 27; v. 270; p. 613.
Iron, steels, &c. John Kenyon & Co. (Sheffield). Nos. 137,810–11; Dec. 7; v. 281; p. 196.
Iron, steels, &c. John Kenyon & Co. (Sheffield). No. 137,813; Dec. 7; v. 281; p. 196.
Iron, steels, &c. John Kenyon & Co. (Sheffield). No. 137,815; Dec. 7; v. 281; p. 197.
Irons, Electric flat-. Chicago Flexible Shaft Company. No. 130,671; May 4; v. 274; p. 183.
Irons, Electric flat-. Chicago Flexible Shaft Company. No. 133,611; Aug. 3; v. 277; p. 171.
Ironing-boards. W. G. Fulton. No. 128,385; Jan. 6; v. 270; p. 180.
Ironing-machines. Barnett Foundry & Machine Co. No. 135,390; Oct. 12; v. 279; p. 341.
Ironing machines, Laundry-. Hurley Machine Company. No. 137,797; Dec. 7; v. 281; p. 196.
Irrigation systems, and valves and parts of such systems, Lawn and garden. Hadden Automatic Sprinkler Company. No. 133,136; July 13; v. 276; p. 402.
Jacks. National Jack Company. No. 128,468; Jan. 6; v. 270; p. 182.
Jacks. Sunderman Corporation. No. 136,953; Nov. 9; v. 280; p. 383.
Jacks, Lifting-. McKiernan-Terry Drill Company. No. 129,020; Jan. 20; v. 270; p. 474.
Jacks, Lifting-. Templeton, Kenly & Co. No. 132,560; June 22; v. 275; p. 824.
Jam, Apple. National Fruit Products Company. No. 128,802; Jan. 13; v. 270; p. 341.
Jam, jelly, &c. The Welch Grape Juice Company. No. 137,078; Nov. 16; v. 280; p. 585.
Jam, jelly, fruit preserves, and conserves. The Welch Grape Juice Company. No. 137,411; Nov. 23; v. 280; p. 798.
Jam, jelly, fruit preserves, conserves. The Welch Grape Juice Company. No. 136,689; Nov. 2; v. 280; p. 189.
Jam, preserves, jelly, and table-syrup, Pure fruit. W. H. Dyer Company. No. 132,933; July 6; v. 276; p. 200.
Jams, Fruit. Gibbs Preserving Co. No. 130,732; May 4; v. 274; p. 185.
Jams, Fruit. Kelley-Clarke Co. No. 131,333; May 11; v. 274; p. 400.
Jams, jellies, &c. Dailey and Company. No. 129,669; Mar. 9; v. 272; p. 362.
Jams, marmalades, and jellies. M. D. Taylor. No. 132,260; June 15; v. 275; p. 620.
Jar-capping machines. The American Pure Food Process Co. No. 131,400; May 18; v. 274; p. 601.
Jar-caps. American Pure Food Process Co. No. 130,036; Apr. 6; v. 273; p. 179.
Jar or bottle metal caps. Phoenix Hermetic Co. No. 128,818; Jan. 13; v. 270; p. 342.
Jar-rings. United States Rubber Company. No. 133,857; Aug. 3; v. 277; p. 178.
Jars and jugs made of glass. Owens Bottle Company. No. 130,000; Mar. 16; v. 272; p. 540.
Jellies, fruit jams, table preserves, canned fruits and vegetables. Wallace Roberts Canning Company. No. 135,188; Sept. 21; v. 278; p. 540.
Jellies, jams, and fruit preserves. Estate of George B. Wales. No. 134,456; Aug. 31; v. 277; p. 974.
Jelly, Pineapple. Pearl City Fruit Co. No. 130,559; Apr. 27; v. 273; p. 804.
Jewelry. M. Bauman. No. 129,610; Mar. 9; v. 272; p. 360.
Jewelry. The E. [illegible] Bliss Company. No. 130,264; Apr. 20; v. 273; p. 6[illegible]9.
Jewelry. The Deco Co. No. 134,624; Sept. 14; v. 278; p. 354.
Jewelry. Distinctive Jewelry Co. No. 132,929; July 6; v. 276; p. 200.
Jewelry. Empire Manufacturing Co. No. 129,694; Mar. 9; v. 272; p. 362.
Jewelry. Franklin Simon & Co. No. 136,626; Nov. 2; v. 280; p. 187.
Jewelry. L. E. Garrigus & Co. No. 138,245; Dec. 21; v. 281; p. 564.

Digitized by Google

Alphabetical list of trade-marks—Continued.

Jewelry. Josephson, C. I. No. 136,051; Oct. 26; v. 279; p. 720.
Jewelry. A. B. Manufacturing Company. No. 133,889; Aug. 10; v. 277; p. 385.
Jewelry. Martin-Copeland Company. Nos. 129,786–7; Mar. 9; v. 272; p. 365.
Jewelry. The Riker Company. No. 129,850. Mar. 9; v. 272; p. 367.
Jewelry. Sinnock & Sherrill. No. 129,881; Mar. 9; v. 272; p. 368.
Jewelry, &c. Tiffany & Company. No. 133,063; July 6; v. 276; p. 204.
Jewelry. The Traub Manufacturing Company. No. 134,105; Aug. 10; v. 277; p. 391.
Jewelry. W. Reed Williams (1908). No. 134,848; Sept. 14; v. 278; p. 361.
Jewelry and pearls, Pearl. D. W. Thomas. No. 133,062; July 6; v. 276; p. 204.
Jewelry and precious-metal ware. Laubheim Bros. No. 132,436; June 22; v. 275; p. 820.
Jewelry, Settings for articles of. Schless-Harwood Company. No. 137,440; Nov. 23; v. 280; p. 799.
Jewelry, &c. Société La Perle Saskia. No. 137,706; Nov. 30; v. 280; p. 1000.
Jewelry. Wachenheimer Bros. No. 136,244; Oct. 26; v. 279; p. 726.
Jewelry, Molds and parts used in casting. Everlast Ring Cast Company. No. 137,782; Dec. 7; v. 281; p. 195.
Jewelry, not including watches. Shiman-Miller Manufacturing Company. No. 134,803; Sept. 14; v. 278; p. 360.
Journey to the moon, Apparatus symbolizing a. S. P. Thompson. No. 133,527; July 27; v. 276; p. 772.
Jumpers and overalls. Ely & Walker Dry Goods Company. No. 133,641; Aug. 3; v. 277; p. 172.
Kerosene. H. Earl Clack Company. No. 132,647; June 29; v. 275; p. 1014.
Kerosene. Petroleum Products Co. No. 134,761; Sept. 14; v. 278; p. 359.
Kerosene. Sinclair Refining Company. No. 129,539; Feb. 24; v. 271; p. 681.
Kerosene. The Texas Company. Nos. 136,958–60; Nov. 9; v. 280; p. 384.
Kerosene. A. F. Thane & Co. Nos. 137,393–4; Nov. 23; v. 280; p. 798.
Kerosene. Thomas W. Simmons & Company. No. 129,400; Feb. 17; v. 271; p. 509.
Kerosene and candles. Atlanta Refining Company. No. 131,704; May 25; v. 274; p. 829.
Kerosene, gasolene, naphtha, &c. Standard Oil Company of New York. No. 131,844; May 25; v. 274; p. 834.
Kerosene, gasolene, &c. Standard Oil Company of New York. No. 132,252; June 15; v. 275; p. 620.
Key-machines and jigs for filing tumblers of locks. Segal Lock & Hardware Co. No. 135,810; Oct. 19; v. 279; p. 532.
Keys and locks. Segal Lock & Hardware Co. No. 133,318; July 20; v. 276; p. 592.
Keys from keyholes, Attachments for preventing displacements of. J. W. Lindberg. No. 135,732; Oct. 19; v. 279; p. 529.
Kid, Glazed. Henwood & Nowak. No. 132,410; June 22; v. 275; p. 819.
Kilns. Lumber-drying. Curtis-Hosey Dryer Co. No. 135,646; Oct. 19; v. 279; p. 527.
Kimonos. George Borgfeldt & Co. No. 134,600; Sept. 14; v. 278; p. 354.
Knit and textile coats and sweaters. Greenbaum, Weil & Michels. No. 135,357 · Sept. 28; v. 278; p. 706.
Knit cloth in the piece, Jersey. Wilkin & Adler. No. 135,360; Sept. 28; v. 278; p. 706.
Knit cloth in the piece. Jersey. Wilkin & Adler. No. 135,559; Oct. 12; v. 279; p. 346.
Knit garments, Men's and women's. Hand Knit Hosiery Co. No. 133,422; July 27; v. 276; p. 769.
Knit napkins, Women's. Palmyra Knitting Company. No. 135,029; Sept. 21; v. 278; p. 533.
Knit underwear and sweaters, Men's. Wyman Partridge & Co. No. 133,882; Aug. 3; v. 277; p. 179.
Knit underwear. S. D. Bausher. No. 134,588; Sept. 14; v. 278; p. 353.
Knit underwear. Collier Mfg. Co. No. 137,163; Nov. 23; v. 280; p. 791.
Knitted and textile underwear and hosiery. Robert Reis & Co. No. 135,784; Oct. 19; v. 279; p. 531.
Knitted and woven automobile-robes, blankets, and cloth or fabric in the piece. Home Woolen Mills. No. 131,940; June 1; v. 275; p. 199.
Knitted and woven underwear, Women's and children's. J. S. Richmond. No. 129,061; Jan. 20; v. 270; p. 475.
Knitted and woven wearing-apparel. Dr. Jaeger's Sanitary Woolen System. No. 138,267; Dec. 21; v. 281; p. 564.
Knitted capes and mufflers. The Lion Knitting Mills Co. No. 130,346; Apr. 20; v. 273; p. 621.
Knitted caps, sweaters, gloves, mittens. Novelty Knitting Mills. No. 135,026; Sept. 21; v. 278; p. 533.
Knitted dress goods known as jersey cloth in the piece, Ladies'. C. Bahnsen & Co. No. 132,889; July 6; v. 276; p. 199.
Knitted jersey cloth in the piece. M. Dorfman. No. 129,957; Mar. 9; v. 272; p. 370.
Knitted, netted, and textile fabrics. Jennings Lace Works Corp. No. 133,149; July 13; v. 276; p. 402.
Knitted, netted, and textile fabrics. Jennings Lace Works Corp. No. 136,049; Oct. 26; v. 279; p. 720.
Knitted, netted, and textile fabrics. Pierce Textile Corporation. No. 129,831; Mar. 9; v. 272; p. 367.
Knitted, netted, and textile fabrics. Rice-Stix Dry Goods Company. No. 129,847; Mar. 9; v. 272; p. 367.
Knitted, netted, and textile fabrics. M. Sapiro. No. 129,866; Mar. 9; v. 272; p. 368.
Knitted, netted, and textile fabrics. Textile Industrial Institute. No. 129,898; Mar. 9; v. 272; p. 369.
Knitted, netted, and textile fabrics. L. W. Tompkins. No. 136,222; Oct. 26; v. 279; p. 725.
Knitted, netted, and textile fabrics. Weissenbach & Kay. No. 129,924; Mar. 9; v. 272; p. 369.
Knitted piece goods. Haas Brothers. No. 129,737; Mar. 9; v. 272; p. 364.
Knitted Sweaters. Lilliputian Specialty Co.. No. 129,868; Feb. 17; v. 271; p. 508.
Knitted sweaters. A. M. Mendelson. No. 130,546; Apr. 27; v. 273; p. 804.
Knitted undershirts and union-suits for women. Phillips-Doscher Corporation. No. 131,211; May 4; v. 274; p. 199.
Knitted underwear. Black Cat Textiles Company. No. 128,585; Jan. 6; v. 270; p. 186.
Knitted underwear. Crossingham Knitting Mills. No. 135,423; Oct. 12; v. 279; p. 342.
Knitted underwear. Everett Knitting Works. No. 133,126; July 13; v. 276; p. 401.
Knitted underwear. Ford Manufacturing Company. No. 133,656; Aug. 3; v. 277; p. 172.
Knitted underwear. Ford Manufacturing Co. No. 134,945; Sept. 21; v. 278; p. 531.
Knitted underwear. Lawrence Knitting Company. No. 128,763; Jan. 13; v. 270; p. 340.
Knitted underwear. W. E. Tillotson Manufacturing Company. No. 136,665; Nov. 2; v. 280; p. 188.
Knitted underwear and hosiery, Women's. Salomon Stern, Ltd. of America. No. 129,530; Feb. 24; v. 271; p. 680.
Knitted underwear, both one and two piece. Everett Knitting Works. No. 134,940; Sept. 21; v. 278; p. 531.
Knitted underwear for adults and children. W. E. Tillotson Manufacturing Company. No. 137,724; Nov. 30; v. 280; p. 1001.
Knitted union-suits, Men's! The Atwater Knitting Company. No. 135,901; Oct. 26; v. 279; p. 715.
Knitted vests and union suits, Ladies'. W. W. Moyer. No. 133,756; Aug. 3; v. 277; p. 175.
Knitting-machine needles. Providence Needle Co. No. 128,490; Jan. 6; v. 270; p. 183.
Knitting-machines, attachments, and parts. Scott & Williams. No. 136,926; Nov. 9; v. 280; p. 383.
Knives. Dwight Divine & Sons. Nos. 130,489–90; Apr. 27; v. 273; p. 802.
Knives. Dwight Divine & Sons. No. 131,448; May 18; v. 274; p. 602.
Knives. Dwight Divine & Sons. No. 133,637; Aug. 3; v. 277; p. 171.
Knives and edge tools. Marburg Brothers. No. 136,089; Oct. 26; v. 279; p. 721.
Knives and meat-carving sets, Pocket-. New Jersey Cutlery Co. Inc. No. 130,376; Apr. 20; v. 273; p. 622.
Knives, forks, scissors, &c. A. T. H. Coward. No. 128,962; Jan. 20; v. 270; p. 472.
Knives, forks, spoons, (silver-plated.) Harper & McIntire Company. No. 136,025; Oct. 26; v. 279; p. 719.
Knives, &c., Hand shoe-. United Shoe Machinery Corporation. No. 128,886; Jan. 13; v. 270; p. 344.
Knives of base metal, Table-. Northampton Cutlery Company. No. 135,293; Sept. 28; v. 278; p. 704.
Knives, Pocket-. The Liberty Knife Company. No. 136,575; Nov. 2; v. 280; p. 184.
Knives, Pocket, table, butcher, and trade. John Russell Cutlery Company. Nos. 133,806–7; Aug. 3; v. 277; p. 177.
Knives, Steel. Lamson and Goodnow Manufacturing Company. No. 131,528; May 18; v. 274; p. 605.
Labels, pamphlets, folders, &c., Printed. National Canners Association. No. 136,875; Nov. 9; v. 280; p. 381.
Labels, Printed, gummed. The Frank G. Shuman Co. No. 134,539; Sept. 7; v. 278; p. 161.
Laces. Garfield-Stahl Company. No. 132,146; June 15; v. 275; p. 617.
Laces and embroideries in the piece. Blanck & Co. No. 133,357; July 27; v. 276; p. 767.
Laces and embroideries in the piece. Ely & Walker D. G. Co. No. 133,405; July 27; v. 276; p. 768.
Laces, Shoe-. Holyoke Braiding Company. Nos. 128,733–4; Jan. 13; v. 270; p. 339.
Laces, Shoe-. C. P. Schneffer. No. 133,809; Aug. 3; v. 277; p. 177.
Lacing-hooks for use on shoes. Edwin B. Stimpson Company. No. 131,927; May 25; v. 274; p. 836.
Lacings, Shoe, corset, and underwear. International Braid Company. No. 133,706; Aug. 3; v. 277; p. 173.
Lacquer and varnishes. Providence Specialty Company. No. 133,494; July 27; v. 276; p. 771.
Lacquer for furniture, &c. C. A. Willey Company. No. 132,593; June 22; v. 275; p. 825.
Lacquer composition. W. H. Scheel. No. 137,858 Dec 7; v. 281; p. 198.

Digitized by Google

Lacquers. E. I. du Pont de Nemours & Company. No. 132,367; June 22; v. 275; p. 817.
Lamp-chimneys, lantern-globes, &c. Gill Brothers Company. No. 132,149; June 15; v. 275; p. 617.
Lamp fixtures, Electric-extension-. Anderson Electric Specialty Co. No. 136,744; Nov. 9; v. 280; p. 377.
Lamp products, Electric-. Electric Lamp & Products Co. No. 131,451; May 18; v. 274; p. 603.
Lamp, Therapeutic ultraviolet-ray air-cooled quartz. Hanovia Chemical and Manufacturing Company. No. 137,620; Nov. 30; v. 280; p. 998.
Lamps and parts and accessories thereof, Oil-. Silver & Co. No. 136,187; Oct. 26; v. 279; p. 724.
Lamps and parts thereof, Arc-. Nicholas Power Company. No. 128,805; Jan. 13; v. 270; p. 341.
Lamps, Arc and incandescent electric. Energy Electric Company. No. 132,934; July 6; v. 276; p. 201.
Lamps, candelabra, candlesticks, electroliers, and pocket-lights, Electric. Tiffany and Company. Nos. 134,828–9; Sept. 14; v. 278; p. 361.
Lamps, candlesticks, and candelabra, Non-electric. Tiffany and Company. Nos. 134,450–1; Aug. 31; v. 277; p. 974.
Lamps, Electric. Maxwell-Ray Company. No. 132,999; July 6; v. 276; p. 202.
Lamps, electric dry batteries, and commercial interior electrical fixtures, Arc and incandescent electric. The Ullman Electric Company. No. 138,143; Dec. 14; v. 281; p. 401.
Lamps, Electric incandescent. General Electric Company. No. 132,949; July 6; v. 276; p. 201.
Lamps, electric toasters, &c., Incandescent electric. The Minneapolis General Electric Company. No. 135,753; Oct. 19; v. 279; p. 530.
Lamps, Incandescent. Whitelite Electric Company. Co. Nos. 133,090–1; July 6; v. 276; p. 205.
Lamps, Incandescent electric. Continental Lamp Works. No. 136,385; Nov. 2; v. 280; p. 180.
Lamps, Incandescent electric. H. W. McCandless & Company. No. 136,856; Nov. 9; v. 280; p. 380.
Lamps, Incandescent electric. Nitrogen Electric Company. No. 131,808; May 25; v. 274; p. 833.
Lamps, Incandescent electric. Novelty Incandescent Lamp Company. No. 135,025; Sept. 21; v. 278; p. 583.
Lamps, Incandescent electric. Novelty Incandescent Lamp Company. No. 135,760; Oct. 19; v. 279; p. 530.
Lamps, Electric. Lux Manufacturing Co. No. 137,040; Nov. 16; v. 280; p. 584.
Lamps, Electric. North American Electric Lamp Company. No. 137,351; Nov. 23; v. 280; p. 797.
Lamps, Electrical vehicle head-. United States Automotive Corporation. No. 137,399; Nov. 23; v. 280; p. 798.
Lamps, torches, lanterns, candelabra. Art Lamp Mfg. Co. No. 132,881; July 6; v. 276; p. 199.
Lamps, Tungsten and nitrogen electric. Turnbull Electric Manufacturing Company. No. 136,965; Nov. 9; v. 280; p. 384.
Landers, Frary & Clark, New Britain, Conn. Base-metal composition. No. 132,727; June 29; v. 275; p. 1016.
Lanterns. J. N. Klema. No. 131,155; May 4; v. 274; p. 198.
Lard. Jacob Dold Packing Co. No. 135,428; Oct. 12; v. 279; p. 342.
Lard compound. Dixie Refining Co. No. 130,174; Apr. 13; v. 273; p. 402.
Lard compounds. G. Schluderberg. No. 129,069; Jan. 20; v. 270; p. 476.
Lard, ham, bacon. Patrick-Young Company. No. 136,574; Nov. 2; v. 280; p. 186.
Lard, Kettle-rendered. Corn Belt Packing Company. No. 133,938; Aug. 10; v. 277; p. 386.
Lard substitute. Hodgson Oil Refining Co. No. 133,261; July 20; v. 276; p. 591.
Lathes. R. K. Le Blond Machine Tool Company. No. 132,189; June 15; v. 275; p. 618.
Lathes. Lehmann Machine Company. No. 138,193; Dec. 14; v. 281; p. 405.
Lathes and grinders. Axelson Machine Co. No. 130,460; Apr. 27; v. 273; p. 801.
Lathes and screw-machines, Turret-. Wood Turret Machine Co. No. 131,391; May 11; v. 274; p. 402.
Lathes, Engine-. South Bend Lathe Works. No. 133,323; July 20; v. 276; p. 592.
Laundry appliances and machines. Brokaw-Eden Manufacturing Company. No. 133,592; Aug. 3; v. 277; p. 170.
Laundry compounds. R. Cleary. No. 136,777; Nov. 9; v. 280; p. 378.
Laundry-machines, &c., Machines for timing and controlling the period of operation of. The Automatic Appliance Company. Nos. 134,215–16; Aug. 24; v. 277; p. 777.
Laundry-tablets. G. M. David. No. 131,074; May 4; v. 274; p. 195.
Laxative. N. Lukin. No. 137,646; Nov. 30; v. 280; p. 999.
Laxative. Granolax Company. No. 132,394; June 22; v. 275; p. 818.
Laxative candy. F. Garfinkel. No. 134,953; Sept. 21; v. 278; p. 531.
Laxative, Carbonated. Frank M. Fox & Co. No. 132,681; June 29; v. 275; p. 1015.
Laxative cold-tablets, cocoanut-oil shampoo, iron-rust and stain remover. B. R. Stone. No. 132,823; June 29; v. 275; p. 1019.
Laxative for colds, headache, &c. Pal Medicine Co. No. 138,494; Dec. 28; v. 281; p. 783.
Laxative liquid and liver stimulant. J. F. Murray. Nos. 129,507–8; Feb. 24; v. 271; p. 680.
Laxative, Liquid vegetable. P. B. Zevely. No. 131,684; May 18; v. 274; p. 610.
Laxative medicine in candy form. Partola Distributing Company. No. 132,775; June 29; v. 275; p. 1018.
Laxative, Medicinal. E. T. Krebs. No. 129,765; Mar. 9; v. 272; p. 365.
Laxative pills. Ferritone Chemical Company. No. 138,450; Dec. 28; v. 281; p. 782.
Laxative preparation. Sentanel Remedies Company. No. 131,610; May 18; v. 274; p. 608.
Laxative tablet. L. H. Pockman. No. 132,488; June 22; v. 275; p. 821.
Laxatives. Capola Manufacturing Co. No. 129,437; Feb. 24; v. 271; p. 678.
Laxatives and cathartics. William S. Merrell Company. No. 128,458; Jan. 6; v. 270; p. 182.
Lead and ready-mixed paints, White. The Tripod Paint Co. No. 137,070; Nov. 16; v. 280; p. 584.
Lead-pencils, writing-pens, and rubber erasers. N. V. Handelsvereeniging Gebrs. Rikkers. No. 132,162; June 15; v. 275; p. 617.
Lead Products. Lead Products Company. No. 133,717; Aug. 3; v. 277; p. 174.
Lead supplies, Plumbers'. The Eagle-Picher Lead Co. No. 137,208; Nov. 23; v. 280; p. 792.
Lead, zinc, and colors in oil, and dry red lead, White. L. H. C. Hart. No. 132,164; June 15; v. 275; p. 617.
Lead, zinc, and colors in oil, dry red lead, White. Louis H. C. Hart. Nos. 128,991–5; Jan. 20; v. 270; p. 473.
Leather. A. J. Bates & Company. No. 134,586; Sept. 14; v. 278; p. 353.
Leather. John R. Evans & Company. No. 131,107; May 4; v. 274; p. 196.
Leather. John R. Evans & Company. No. 132,674; June 29; v. 275; p. 1015.
Leather. Febeco Leather Corporation. No. 128,692; Jan. 13; v. 270; p. 338.
Leather. W. R. Grace & Co. No. 128,393; Jan. 6; v. 270; p. 180.
Leather. Kistler, Lesh & Company. Nos. 132,006–8; June 8; v. 275; p. 414.
Leather. Legallet Hellwig Norton Company. No. 138,052; Dec. 14; v. 281; p. 399.
Leather. Merchant Loveys Leather Co. No. 134,741; Sept. 14; v. 278; p. 358.
Leather. The C. Moench Sons Company. No. 129,300; Feb. 10; v. 271; p. 356.
Leather. Monarch Leather Company. Nos. 133,471–2; July 27; v. 276; p. 770.
Leather. Monarch Leather Company. No. 135,372; Sept. 28; v. 278; p. 707.
Leather. Otto Meyer & Co. No. 132,020; June 8; v. 275; p. 415.
Leather. Quaker City Corporation. No. 128,491; Jan. 6; v. 270; p. 183.
Leather. Qualitas Patent Leather Corporation. No. 128,492; Jan. 6; v. 270; p. 183.
Leather. Rice & Hutchins. No. 132,790; June 29; v. 275; p. 1018.
Leather. Ultramares Corporation. No. 130,240; Apr. 13; v. 273; p. 404.
Leather. Widen-Lord Tanning Co. No. 128,578; Jan. 6; v. 270; p. 186.
Leather and cut lacings, Lace-. Jewell Belting Company. No. 135,714; Oct. 19; v. 279; p. 529.
Leather and enameled-goods polish. E. Brown & Son (Blacking & Boot Polish Manufacturers). No. 134,897; Sept. 21; v. 278; p. 530.
Leather and fabric dressing J. W. Colley. No. 133,619; Aug. 3; v. 277; p. 171.
Leather and finished calfskins, Patent-. Barnet Leather Company. No. 130,461; Apr. 27; v. 273; p. 801.
Leather, and particularly kid-leather. Dungan, Hood & Co. No. 132,931; July 6; v. 276; p. 200.
Leather and skins. William Walker & Sons. No. 129,318; Feb. 10; v. 271; p. 357.
Leather articles. The Graton & Knight Manufacturing Company. No. 137,617; Nov. 30; v. 280; p. 998.
Leather, Artificial. Armstrong Cork Company. No. 137,096; Nov. 23; v. 280; p. 789.
Leather blackings and dressing. G. H. Capen. No. 132,319; June 22; v. 275; p. 816.
Leather-board, Manufactured. Herkimer Fibre Company. No. 130,749; May 4; v. 274; p. 185.
Leather boots and shoes. Whitmore-Tirrell Shoe Corporation. No. 133,092; July 6; v. 276; p. 205.
Leather-dressing. Whittemore Brothers Corporation. No. 130,594; Apr. 27; v. 273; p. 805.
Leather-dressing. Whittemore Brothers' Corporation. Nos. 131,669–71; May 18; v. 274; p. 610.
Leather-dressing. Whittemore Brothers Corporation. No. 132,277; June 15; v. 275; p. 621.
Leather-dressing. Whittemore Brothers Corporation. No. 134,136; Aug. 10; v. 277; p. 392.

Digitized by Google

Alphabetical list of trade-marks—Continued.

Leather-dressing. J. H. Yocum. No. 132,073; June 8; v. 275; p. 417.
Leather, &c., dressing and preservative. Chicago Belting Company. No. 135,412; Oct. 12; v. 279; p. 542.
Leather-dressing for shoes. M. Sita. No. 135,073; Sept. 21; v. 278; p. 535.
Leather-dressings. Keiner & Pohl Company. No. 134,988; Sept. 21; v. 278; p. 532.
Leather, finished and partly finished. The Ulmer Leather Company. No. 133,531; July 27; v. 276; p. 772.
Leather, finished and partly finished, and particularly picker-leather. The Ulmer Leather Company. No. 132,060; June 8; v. 275; p. 416.
Leather for shoes. Castle Kid Co. No. 130,048; Apr. 6; v. 273; p. 179.
Leather, Finished. Chevaux Kid Leather Co. No. 130,278; Apr. 20; v. 273; p. 619.
Leather goods. The Deco Co. No. 134,623; Sept. 14; v. 278; p. 354.
Leather, Harness and shoe. McIntyre-Burrall Company. No. 134,320; Aug. 24; v. 277; p. 781.
Leather hides. The Tropics Corporation. No. 133,064; July 6; v. 276; p. 204.
Leather, hides, skins. Hugo Brand Leather Co. No. 129,290; Feb. 10; v. 271; p. 356.
Leather, Horse-. Chicago Tanning Co. No. 130,672; May 4; v. 274; p. 183.
Leather goods. John Ormerod & Sons. No. 138,493; Dec. 28; v. 281; p. 783.
Leather, Imitation. Benjamin V. Harrison Co. No. 130,067; Apr. 6; v. 273; p. 180.
Leather, Imitation. Henry Gitterman & Co. No. 137,615; Nov. 30; v. 280; p. 998.
Leather, Imitation. Marathon Tire and Rubber Co. No. 131,182; May 4; v. 274; p. 198.
Leather in the piece, Finished. The Toomay Company. No. 130,946; May 4; v. 274; p. 191.
Leather, Manufactured. The C. Moench Sons Company. Nos. 129,301–2; Feb. 10; v. 271; p. 356.
Leather, particularly kid. Dugan, Hood & Co. No. 137,586; Nov. 30; v. 280; p. 997.
Leather, Patent-. Perkins & McNeely. No. 132,779; June 29; v. 275; p. 1018.
Leather-polishing-pastes. A. W. Zieseniss. No. 129,949; Mar. 9; v. 272; p. 370.
Leather, Side-. Perkins & McNeely. No. 134,411; Aug. 31; v. 277; p. 973.
Leather, Sole-. Ashland Leather Company. No. 131,955; June 8; v. 275; p. 413.
Leather, Sole-. G. H. Beckmann. No. 129,262; Feb. 10; v. 271; p. 355.
Leather, Sole-. Janney & Burroughs. No. 130,767; May 4; v. 274; p. 186.
Leather, Sole-. Sears, Roebuck & Company. No. 130,108; Apr. 6; v. 273; p. 181.
Leather, Sole-. Wilder & Company. No. 132,865; June 29; v. 275; p. 1021.
Leather soles, Artificial-. Madelether Company. No. 128,442; Jan. 6; v. 270; p. 182.
Leather, Upper-. Standard Kid Manufacturing Company. No. 130,414; Apr. 20; v. 273; p. 624.
Leathers, Shoe and glove. Fred Rueping Leather Co. No. 135,327; Sept. 28; v. 278; p. 705.
Leggings, Leather and fabric. F. J. Stewart. No. 130,419; Apr. 20; v. 273; p. 624.
Lemon-squash and lime-juice. London 'O-T' Limited. No. 131,536; May 18; v. 274; p. 605.
Lens-blanks and lenses, Ophthalmic. Simpson-Walther Lens Company. No. 128,519; Jan. 6; v. 270; p. 184.
Lens-blanks and lenses, Ophthalmic. Simpson-Walther Lens Company. No. 129,221; Jan. 27; v. 270; p. 616.
Lenses, Auto-. Unique Auto Specialties Co. No. 130,429; Apr. 20; v. 273; p. 624.
Lenses, Automobile-. E. R. Brackett. No. 131,044; May 4; v. 274; p. 194.
Lenses, Condensing-. Corning Glass Works. No. 131,436; May 18; v. 274; p. 602.
Lenses, eyeglasses, and frames, Ophthalmic. United Eye Glass Shops Corporation. No. 131,650; May 18; v. 274; p. 609.
Lenses, eyeglasses, &c., Ophthalmic. United Eye Glass Shops Corporation. Nos. 131,374–9; May 11; v. 274; p. 402.
Lenses for spectacles and eyeglasses, Optical. L. A. Heilig. No. 134,159; Aug. 17; v. 277; p. 581.
Lenses, Headlight-. The Clamert Manufacturing Company. No. 138,437; Dec. 28; v. 281; p. 782.
Lenses, lens-blanks, and spectacle-frames, Spectacle-. J. H. Hammon. No. 133,693; Aug. 3; v. 277; p. 173.
Lenses, Ophthalmic. American Optical Company. No. 130,610; May 4; v. 274; p. 181.
Lenses, Ophthalmic, &c. American Optical Company. Nos. 133,206–8; July 20; v. 276; p. 589.
Lenses, Ophthalmic. J. Robinson Cohen & Bro. No. 135,416; Oct. 12; v. 279; p. 342.
Lenses, Optical. F. B. Alexander. No. 130,254; Apr. 20; v. 273; p. 619.
Lenses, Photographic. Wollensak Optical Co. No. 131,389; May 11; v. 274; p. 402.
Lenses, Projection-. Projection Optics Co. No. 137,054; Nov. 16; v. 280; p. 584.
Letters or numbers. Chas. F. Lorenzen & Co. Nos. 132,992–3; July 6; v. 276; p. 202.
Letters or numbers. Chas. F. Lorenzen & Co. No. 133,273; July 20; v. 276; p. 591.
Levels. On-The-Dot Level Device. No. 136,565; Nov. 2; v. 280; p. 185.
Life-preservers and swimming-floats. International Cork Company. No. 137,804; Dec. 7; v. 281; p. 196.
Life-saving garments, buoyant swim-wings, &c., Kapok filling or stuffing for. Kapo Manufacturing Company. No. 137,051; Nov. 16; v. 280; p. 586.
Lighting and power purposes, Current generating and distributing system for. The Domestic Engineering Company. No. 129,148; Jan. 27; v. 270; p. 614.
Lighting and ventilating devices. The Adams & Westlake Company. No. 131,950; June 8; v. 275; p. 413.
Lighting-fixtures, Glass. Phoenix Glass Company. No. 130,222; Apr. 13; v. 273; p. 403.
Lighting fixtures, shades, and reflectors, Electric-. Overbah & Ayres Mfg. Co. No. 136,568; Nov. 2; v. 280; p. 186.
Lighting units. Luminous Specialty Company. No. 135,215; Sept. 28; v. 278; p. 703.
Lightning-rods and parts thereof. St. Louis Lightning Rod Company. No. 130,017; Mar. 23; v. 272; p. 731.
Lights used for illumination and to illuminate motion-picture work, &c. Sun-Light Arc Corporation. No. 138,136; Dec. 14; v. 281; p. 401.
Lights, lamps, lanterns, Electric cargo-. The Burnet Company. No. 135,930; Oct. 26; v. 279; p. 716.
Lights, Night-. United States Wax Corporation. No. 135,354; Sept. 28; v. 278; p. 706.
Lights or searchlights, Electric spot-. Hardware Manufacturing Co. No. 131,769; May 25; v. 274; p. 831.
Limbs, Artificial. O. E. Worman. No. 133,199; July 13; v. 276; p. 404.
Lime, Chemical calcium hydrated. Rockland and Rockport Lime Corporation. No. 138,501; Dec. 28; v. 281; p. 783.
Lime-juice and grape-juice. S. S. Pierce Co. No. 131,820; May 25; v. 274; p. 833.
Lime, White-marble. O. King. No. 132,005; June 8; v. 275; p. 414.
Limestone, Pulverized. American Limestone Company. No. 130,027; Apr. 6; v. 273; p. 179.
Linen and cotton piece goods, towels, sheets, &c. Derryvale Linen Company. No. 129,674; Mar. 9; v. 272; p. 362.
Lingerie, underwear, shoes, and hats. Jureidini Export Company. No. 133,710; Aug. 3; v. 277; p. 174.
Liniment. F. Ad. Richter & Co. of New York. Nos. 131,593–4; May 18; v. 274; p. 607.
Liniment. Arlon Medicine Mfg. Co. No. 135,594; Oct. 19; v. 279; p. 525.
Liniment. J. L. Bear. No. 135,601; Oct. 19; v. 279; p. 525.
Liniment. E. B. Castello. No. 128,955; Jan. 20; v. 270; p. 472.
Liniment. A. F. Helpa. No. 129,744; Mar. 9; v. 272; p. 364.
Liniment. Henry Thayer & Co. No. 133,847; Aug. 3; v. 277; p. 178.
Liniment. T. J. Pappalias. No. 129,821; Mar. 9; v. 272; p. 366.
Liniment. H. H. Ricker. No. 128,835; Jan. 13; v. 270; p. 342.
Liniment. Starko Drug Manufacturing Co. No. 137,478; Nov. 23; v. 280; p. 800.
Liniment. H. Stewart. No. 135,821; Oct. 19; v. 279; p. 532.
Liniment. L. W. Umbaugh. No. 131,373; May 11; v. 274; p. 402.
Liniment. G. H. Wood. No. 134,853; Sept. 14; v. 278; p. 362.
Liniment for certain named ailments. R. C. Scafe. No. 132,512; June 22; v. 275; p. 822.
Liniment for pneumonia, coughs, &c. S. Major. No. 129,497; Feb. 24; v. 271; p. 679.
Liniment for rheumatism, &c. Aidol Medicine Co. No. 134,874; Sept. 21; v. 278; p. 529.
Liniment for rheumatism, headaches, cuts, bruises, burns, &c. Universal Remedies Company. No. 134,551; Sept. 7; v. 278; p. 161.
Liniment for sprains and bruises. E. N. Harden. No. 136,024; Oct. 26; v. 279; p. 719.
Liniment for swollen joints, rheumatism, headache, &c. N. G. Johnson. No. 132,425; June 22; v. 275; p. 818.
Liniment for the treatment of certain named affections. Leroy Jones. No. 131,331; May 11; v. 274; p. 400.
Liniment for the treatment of rheumatism. Jordan and Hamble Compounding Company. No. 134,984; Sept. 21; v. 278; p. 532.
Liniment for the treatment of rheumatism, neuralgia, &c. F. Ad. Richter & Co. No. 129,528; Feb. 24; v. 271; p. 680.
Liniments for wrenches, sprains, bruises, &c., cow and horse physic for dysentery, &c. J. F. McKenna. No. 134,017; Aug. 10; v. 277; p. 389.
Liniment, Medicinal oil-. M. M. Wolff. No. 132,598; June 22; v. 275; p. 825.
Liniment, salve, &c. N. E. Marshburn. No. 136,093; Oct. 26; v. 279; p. 721.
Liniment to be used in treatment of certain named ailments. L. G. Beal. No. 129,611; Mar. 9; v. 272; p. 360.

Liniments. A. W. Fingl. No. 131,461; May 18; v. 274; p. 603.
Liniments, cough medicines, tonics, &c. The Polonia Drug Company. No. 134,767; Sept. 14; v. 278; p. 359.
Liniments, lotions, salves, ointments, and powders used in treating horses and cattle. The Converse Supply Company. No. 132,918; July 6; v. 276; p. 200.
Liniments used in the treatment of muscular pains, &c. Polonia Drug Company. No. 131,823; May 25; v. 274; p. 833.
Linings, Cotton. J. W. Goddard & Sons. No. 131,760; May 25; v. 274; p. 831.
Linings, Garment-. M. Davis & Sons Textile Co. No. 135,427; Oct. 12; v. 279; p. 342.
Linings in the piece. Brand & Oppenheimer. No. 137,127; Nov. 23; v. 280; p. 790.
Linoleum and composition floor-coverings. The Beaver Company. No. 133,578; Aug. 3; v. 277; p. 169.
Linoleum and cork carpet. Congoleum Company. No. 137,165; Nov. 23; v. 280; p. 791.
Linoleum, Imitation. Salem Manufacturing Co. No. 131,828; May 25; v. 274; p. 833.
Liquid preparation for cleaning and polishing silver and plate. E. H. Fudge. No. 135,676; Oct. 19; v. 279; p. 528.
Liquid stove-polish. Slavin Bros. Company. No. 135,812; Oct. 19; v. 279; p. 532.
Liquor, Distilled alcoholic. W. H. Chaplin Co. No. 134,483; Sept. 7; v. 278; p. 159.
Liquors, Distilled alcoholic. Boord & Son. No. 133,103; July 13; v. 276; p. 401.
Lithopone. Collinsville Zinc Corporation. No. 131,726; May 25; v. 274; p. 830.
Local anesthetic, sodium phenique compound, and dental medicines for treating pyorrhea. The Ransom & Randolph Company. No. 134,528; Sept. 7; v. 278; p. 160.
Lockets, fobs, pendants, and ear-rings. Stern Brothers & Company. No. 132,258; June 15; v. 275; p. 620.
Locks. J. G. Beddoes. No. 128,930; Jan. 20; v. 270; p. 471.
Locks. Miller Lock Company. No. 133,284; July 20; v. 276; p. 591.
Locks, Door-rim, desk, berth, &c. Adams & Westlake Company. No. 133,201; July 20; v. 276; p. 589.
Locks, Nut-. Palnut Corporation. No. 130,860; May 4; v. 274; p. 189.
Locks, Nut-. United Nut Lock Company. No. 131,381; May 11; v. 274; p. 402.
Locomotives and mining-machines, Electric. Goodman Manufacturing Company. No. 137,001; Nov. 9; v. 280; p. 387.
Locomotives and tractors, Electric. Koppel Industrial Car & Equipment Company. No. 130,333; Apr. 20; v. 273; p. 621.
Locomotives, turntables, &c., Steam-. Koppel Industrial Car & Equipment Company. No. 128,762; Jan. 13; v. 270; p. 340.
Logs. The Tropics Corporation. No. 132,839; June 29; v. 275; p. 1020.
Long-cloths, sheetings, nainsooks &c. Richard Haworth and Company. No. 136,827; Nov. 9; v. 280; p. 380.
Looms and parts of looms, winding and unwinding machines and parts thereof, &c. Draper Corporation. No. 135,863; Oct. 19; v. 279; p. 535.
Looms and parts thereof. Draper Corporation. No. 134,315; Aug. 24; v. 277; p. 781.
Looms, loom-temples, and parts and attachments for looms. Hopedale Manufacturing Company. No. 135,461; Oct. 12; v. 279; p. 343.
Loose-leaf binders. Walraven Brothers. No. 129,918; Mar. 9; v. 272; p. 369.
Lotion and shampoo, Shaving-. M. A. Frost. No. 136,002; Oct. 26; v. 279; p. 718.
Lotions, cold-creams, ointments. J. W. Wilder. No. 132,588; June 22; v. 275; p. 825.
Lotion, Face-. L. F. Fow. No. 131,753; May 25; v. 274; p. 831.
Lotion, Foot-. Gary Laboratories Company. No. 134,654; Sept. 14; v. 278; p. 355.
Lotion for chapped hands, sunburn, &c. Charles D. Clinton Co. No. 135,211; Sept. 28; v. 278; p. 701.
Lotion for protection against insect pests. Ward Drug Company. No. 129,561; Feb. 24; v. 271; p. 681.
Lotion for use as a depilatory. Hannibal Pharmacal Company. No. 128,397; Jan. 6; v. 270; p. 180.
Lotion, Hand-. H. B. Andell. No. 132,611; June 29; v. 275; p. 1013.
Lotion, Skin-. N. Erber. No. 132,368; June 22; v. 275; p. 818.
Lotion, Skin-. A. O. Freedman. No. 136,425; Nov. 2; v. 280; p. 181.
Lotion, Skin-. J. M. Pendas. No. 136,893; Nov. 9; v. 280; p. 382.
Lotion, Toilet. The Lorenz Company. No. 131,539; May 18; v. 274; p. 606.
Lotions and wrinkle-removers, Skin-. K. E. Hiscox; No. 138,463; Dec. 28; v. 281; p. 782.
Lotions, hair-tonic, &c., Face and hand. Coradine. No. 137,170; Nov. 16; v. 280; p. 791.
Lotions, Skin-. C. H. Bong. No. 131,416; May 18; v. 274; p. 601.
Lotions, Skin-. Mutual Drug Company. No. 135,288; Sept. 28; v. 278; p. 704.
Lotions, Toilet. E. Gal, Sociedad En Comandita. No. 129,342; Feb. 17; v. 271; p. 507.
Lotions to be rubbed into the skin to relieve pain. Lumoff and Evanove. No. 131,797; May 25; v. 274; p. 832.
Lounges and vehicle-seats. F. O. White. No. 130,138; Apr. 6; v. 273; p. 182.
Lubricant, Mining-machine. The United States Graphite Company. No. 135,095; Sept. 21; v. 278; p. 535.
Lubricants consisting of oils and greases. United Petroleum Products Co. No. 136,676; Nov. 2; v. 280; p. 189.
Lubricating and grease guns. Boston Auto Gage Company. No. 130,648; May 4; v. 274; p. 182.
Lubricating compound. Area Manufacturing Co. No. 130,459; Apr. 27; v. 273; p. 801.
Lubricating-greases. D-A Lubricant Company. No. 133,625; Aug. 3; v. 277; p. 171.
Lubricating oils and greases. Crew Levick Company. No. 129,846; Feb. 17; v. 271; p. 507.
Lubricating-paste. Merrill-Hamilton Company. No. 132,199; June 15; v. 275; p. 618.
Lubricating systems. Standex Manufacturing Corporation. No. 137,066; Nov. 16; v. 280; p. 584.
Lubricators and oiling devices, Mechanical. Richardson-Phenix Co. No. 131,589; May 18; v. 274; p. 607.
Lubricators, Force-feed. Smith & Egge Manufacturing Company. No. 132,533; June 22; v. 275; p. 823.
Lubricators, Mechanical. The Lunkenheimer Company. No. 133,161; July 13; v. 276; p. 403.
Lubricators, oil and grease cups. Madison-Kipp Corporation. No. 137,830; Dec. 7; v. 281; p. 197.
Lumber. Baker Lumber Co. No. 132,621; June 29; v. 275; p. 1013.
Lumber. Darnell-Love Lumber Company. No. 129,979; Mar. 16; v. 272; p. 539.
Lumber. Otis Manufacturing Co. No. 132,770; June 29; v. 275; p. 1018.
Lumber. Walnut Export Sales Co. No. 131,928; May 25; v. 274; p. 836.
Lumber and staves, Dressed. Bencoe Lumber Company. No. 136,755; Nov. 9; v. 280; p. 377.
Lumber and timber. The Arrow Lumber Company. No. 137,098; Nov. 23; v. 280; p. 789.
Lumber and veneers. Nickey Brothers. No. 130,219; Apr. 13; v. 273; p. 408.
Lumber, Finished and unfinished. Long-Bell Lumber Company. No. 131,913; May 25; v. 274; p. 836.
Lumber, Rough and dressed. J. M. Card Lumber Co. No. 137,141; Nov. 23; v. 280; p. 790.
Lumber, Rough hardwood. Climax Lumber Company. No. 136,779; Nov. 9; v. 280; p. 378.
Lumber stock material. Brown Brothers Company. No. 130,157; Apr. 13; v. 273; p. 401.
Lumber, timber, and logs, Unfinished. Weyerhaeuser Forest Products. No. 132,863; June 29; v. 275; p. 1021.
Luminous material. Radium Luminous Material Corporation. No. 131,585; May 18; v. 274; p. 607.
Luminous material, Self-. Radium Luminous Material Corporation. No. 132,495; June 22; v. 275; p. 822.
Luminous pendant. Pioneer Corporation. No. 132,033; June 8; v. 275; p. 415.
Lunch-room equipments, Industrial. Chicago Hardware Foundry Company. No. 134,612; Sept. 14; v. 278; p. 354.
Lunches, Prepared. S. G. Leoffler, Jr. No. 132,011; June 8; v. 275; p. 415.
Luting compounds. National Carbon Company. No. 138,073; Dec. 14; v. 281; p. 399.
Lye and chlorinated lime. The Penn Chemical Works. No. 136,577; Nov. 2; v. 280; p. 186.
Lye, Powdered. The Sinclair Manufacturing Company. Nos. 134,805–6; Sept. 14; v. 278; p. 360.
Macaroni. Dundas Food Products Corporation. No. 137,990; Dec. 14; v. 281; p. 397.
Macaroni. Keystone Macaroni Company. No. 128,415; Jan. 6; v. 270; p. 181.
Macaroni. Modern Macaroni Manufacturing Company. No. 138,067; Dec. 14; v. 281; p. 399.
Macaroni. Prince Macaroni Mfg. Co. No. 130,871; May 4; v. 274; p. 189.
Macaroni. Prince Macaroni Mfg. Co. No. 137,680; Nov. 30; v. 280; p. 999.
Macaroni. E. M. Schisa. No. 134,537; Sept. 7; v. 278; p. 161.
Macaroni sauce. Workman Packing Company. No. 132,071; June 8; v. 275; p. 416.
Macaroni, spaghetti, and noodles. P. F. Skinner. No. 133,041; July 6; v. 276; p. 204.
Macaroni, spaghetti, noodles. Foulds-Briggs Co. No. 133,414; July 27; v. 276; p. 768.
Macaroni, spaghetti, vermicelli. California Macaroni Company. No. 130,273; Apr. 20; v. 273; p. 619.
Macaroni, vermicelli, and noodles. Skinner Mfg. Co. No. 131,370; May 11; v. 274; p. 402.
Macaronic foods. United States Macaroni Company. No. 135,836; Oct. 19; v. 279; p. 532.
Machine-tools. Bullard Machine Tool Co. No. 135,404; Oct. 12; v. 279; p. 342.
Machine-tools for scaling and cleaning boiler-plates, &c. F. Gilman. No. 130,306; Apr. 20; v. 273; p. 620.
Machines and parts thereof. The Holt Manufacturing Company. No. 134,172; Aug. 17; v. 277; p. 581.

Machines and parts thereof, Certain named. Cement-Gun Company. No. 128,325; Jan. 6; v. 270; p. 178.
Machines, and parts thereof, Sewing-. L. Burlasky. No. 131,288; May 11; v. 274; p. 399.
Machines and sadirons, ironing and wringing. Blue Bird Manufacturing Company. No. 133,585; Aug. 3; v. 277; p. 170.
Machines and tools. Harper & McIntire Company. No. 137,254; Nov. 23; v. 280; p. 794.
Machines and tools. Nestor Manufacturing Co. No 137,838; Dec. 7; v. 281; p. 197.
Machines, Automatic account-finding and pay-roll-scheduling. The Watters Corporation. No. 138,156; Dec. 14; v. 281; p. 402.
Machines, bucks, lathes, bars, &c. A. F. Way Company, No. 131,877; May 25; v. 274; p. 835.
Machines, Calculating-. The American Calculating Machine Co. No. 134,150; Aug. 17; v. 277; p. 581.
Machines for making candles. National Equipment Company. No. 138,074; Dec. 14; v. 281; p. 399.
Machines, Soil-tilling. Dunham Company. No. 133,401; July 27; v. 276; p. 768.
Machines, Tiering-. Brown Portable Conveying Machinery Co. No. 130,158; Apr. 13; v. 273; p. 401.
Machinery. J. I. Case Threshing Machine Company. No. 131,289; May 11; v. 274; p. 399.
Machinery. Chemical Equipment Company. No. 135,216; Sept. 28; v. 278; p. 701.
Machinery. Keystone Driller Company. No. 134,179; Aug. 17; v. 277; p. 582.
Machinery. Lummus Cotton Gin Company. No. 131,178; May 4; v. 274; p. 198.
Machinery. Meisel Press Manufacturing Company. No. 134,184; Aug. 17; v. 277; p. 582.
Machinery. Sullivan Machinery Company. No. 134,326; Aug. 24; v. 277; p. 781.
Machinery and parts thereof. Amplex Incorporated. No. 132,082; June 15; v. 275; p. 615.
Machinery and parts thereof. Jabez Burns & Sons. No. 134,160; Aug. 17; v. 277; p. 581.
Machinery and parts thereof. Maschinenfabrik Schweiter A.-G. No. 134,180; Aug. 17; v. 277; p. 582.
Machinery and parts thereof. Massey-Harris Harvester Co. No. 130,820; May 4; v. 274; p. 187.
Machinery and parts thereof. The Murray Company. No. 129,189; Jan. 27; v. 270; p. 615.
Machinery and tools. American Tool & Machine Co. No. 131,402; May 18; v. 274; p. 601.
Machinery and tools. Fulton Tool Works. No. 132,879; June 22; v. 275; p. 818.
Machinery and tools and attachments therefor. Lawson & Company. No. 130,535; Apr. 27; v. 273; p. 803.
Machinery and tools and parts. General Motors Corporation. No. 128,981; Jan. 20; v. 270; p. 473.
Machinery and tools and parts thereof. American Steel Export Company. No. 129,115; Jan. 27; v. 270; p. 613.
Machinery and tools and parts thereof. Brown & Zortman Machinery Co. No. 133,594; Aug. 3; v. 277; p. 170.
Machinery and tools and parts thereof. L. L. Gilcrease. No. 133,133; July 13; v. 276; p. 402.
Machinery and tools, dies, jigs, and parts thereof. Special Tool Engineering Manufacturing Company. No. 133,186; July 13; v. 276; p. 403.
Machinery, Electrical. The Imperial Electric Co. No. 132,973; July 6; v. 276; p. 202.
Machinery for certain named purposes. S. Howes Co. No. 130,758; May 4; v. 274; p. 186.
Machinery for sugar and other mills and parts thereof. Farrel Foundry & Machine Company. No. 131,749; May 25; v. 274; p. 831.
Machinery, Hoisting. H. Druschel. No. 135,976; Oct. 26; v. 279; p. 718.
Machinery-patterns. L. S. Packwood. No. 136,571; Nov. 2; v. 280; p. 186.
Machinery, tools, &c. The National Supply Company. No. 137,344; Nov. 23; v. 280; p. 796.
Machinery, tools, and parts thereof. The Farm Equipment Co. No. 134,156; Aug. 17; v. 277; p. 581.
Mackinaws, woolen shirts, storm-vests, trousers, and outer suits. Lawrence Webster Co. No. 131,879; May 25; v. 274; p. 835.
Magazine, Bimonthly. The Procter & Collier Company. No. 135,511; Oct. 12; v. 279; p. 345.
Magazine, Monthly. American Carpenter and Builder Co. No. 134,473; Sept. 7; v. 278; p. 159.
Magazine, Monthly. Brownstein-Louis Company. No. 135,204; Sept. 28; v. 278; p. 701.
Magazine, Monthly. M. K. Burckett. No. 133,365; July 27; v. 276; p. 767.
Magazine, Monthly. Class Journal Corporation. Nos. 133,385–6; July 27; v. 276; p. 768.
Magazine, Monthly. Columbia Graphophone Company. No. 134,618; Sept. 14; v. 278; p. 354.
Magazine, Monthly. Experimenter Publishing Co. No. 129,698; Mar. 9; v. 272; p. 362.
Magazine, Monthly. Federal Motor Truck Company. No. 136,802; Nov. 9; v. 280; p. 379.
Magazine, Monthly. M. Heymann. No. 135,259; Sept. 28; v. 278; p. 703.
Magazine, Monthly. Lotus Magazine Foundation. No. 135,512; Sept. 7; v. 278; p. 160.
Magazine, Monthly. Metal Record and Electroplater Publishing Co. No. 129,792; Mar. 9; v. 272; p. 365.
Magazine, Monthly. Pierce-Arrow Motor Car Company. No. 134,065; Aug. 10; v. 277; p. 390.
Magazine, Monthly. The Pierce-Arrow Motor Car Company. No. 134,763; Sept. 14; v. 278; p. 359.
Magazine, Monthly. The Ridgway Company. No. 136,911; Nov. 9; v. 280; p. 382.
Magazine, Periodical. Farmer & Breeder. No. 136,415; Nov. 2; v. 280; p. 181.
Magazine, Printed monthly. Chicago Mill & Lumber Company. No. 135,944; Oct. 26; v. 279; p. 717.
Magazine, Quarterly. W. H. Alston. No. 138,215; Dec. 21; v. 281; p. 563.
Magazine-section. Photoplay Publishing Co. No. 129,828; Mar. 9; v. 272; p. 367.
Magazine-section. Photoplay Publishing Company. No. 134,526; Sept. 7; v. 278; p. 160.
Magazine, Weekly. J. B. Bloor. No. 138,219; Dec. 21; v. 281; p. 563.
Magazine, Weekly. Manufacturers Record Publishing Company. No. 133,462; July 27; v. 276; p. 770.
Magazine, Weekly. Motion Picture News. No. 135,287; Sept. 28; v. 278; p. 704.
Magazines, Monthly. Commerce Publications Company. No. 133,391; July 27; v. 276; p. 768.
Magazines, Monthly. Earle A. Miller Co. No. 129,796; Mar. 9; v. 272; p. 366.
Magazines, Monthly. Pro-Distributors Publishing Company. No. 136,161; Oct. 26; v. 279; p. 723.
Magazines, Monthly. T. A. Randall & Co. No. 137,684; Nov. 30; v. 280; p. 1000.
Magnesia and mineral oil, Milk of. R. P. Roziene. No. 136,174; Oct. 26; v. 279; p. 724.
Magnesium-oxychlorid cement and certain products made therefrom. Macanite Company of America. No. 132,017; June 8; v. 275; p. 415.
Magneto-files and tools for cleaning spark-plugs. Henry Disston & Sons. No. 131,298; May 11; v. 274; p. 399.
Magnetos and parts thereof and electrical condensers. Apollo Magneto Corporation. No. 134,573; Sept. 14; v. 278; p. 353.
Magnets, magnetic separators, and magnetic screens, Lifting-. Dings Magnetic Separator Company. No. 138,390; Dec. 21; v. 281; p. 570.
Mailing-packages. The Troy Carriage Sun Shade Company. No. 137,887; Dec. 7; v. 281; p. 199.
Mailing-receptacles. International Mailing Tube and Wrapper Co. No. 137,806; Dec. 17; v. 281; p. 196.
Mallow topping for ice-cream, desserts, &c. Fabian Hedges Inc. No. 131,135; May 4; v. 274; p. 197.
Malt and hop extract sold for the preparation of a cereal beverage. T. J. Wild. No. 132,278; June 15; v. 275; p. 621.
Malt extract. P. Ballantine & Sons. Nos. 137,940–1; Dec. 14; v. 281; p. 395.
Malt extract. H. P. Schroeder. No. 137,488; Nov. 23; v. 280; p. 799.
Malt extract for food purposes. C. L. Beardsley. No. 130,261; Apr. 20; v. 273; p. 619.
Malt extract for food purposes. Decatur Brewing Co. No. 135,967; Oct. 26; v. 279; p. 717.
Malt extracts, concentrated food powders, &c. A. E. Murdock. No. 134,416; Aug. 31; v. 277; p. 973.
Malt extracts, Non-alcoholic. V. Loewer's Gambrinus Brewery Co. No. 130,207; Apr. 13; v. 273; p. 403.
Malt, hops, pitch. Pan America Supply Company. No. 128,479; Jan. 6; v. 270; p. 183.
Maltose, glucose, &c., for food-flavoring. A. O. Probst & Co. No. 138,093; Dec. 14; v. 281; p. 400.
Mandolins, guitars, &c. Periberg & Halpin. No. 129,046; Jan. 20; v. 270; p. 475.
Manicure, pedicure, and surgical implements. The Henkel-Clauss Co. No. 136,456; Nov. 2; v. 280; p. 182.
Manicure sets. Northam Warren Corporation. No. 133,010; July 6; v. 276; p. 203.
Manicuring implements. Columbia Manicure Mfg. Co. No. 130,678; May 4; v. 274; p. 183.
Maps. Sampson & Murdock Company. No. 129,864; Mar. 9; v. 272; p. 368.
Marble and stone. C. D. Jackson & Co. Nos. 134,388–97; Aug. 31; v. 277; pp. 972–3.
Marble and stone. C. D. Jackson & Co. Nos. 136,836–8; Nov. 9; v. 280; p. 380.
Marcel and water waver. Samstag & Hilder Bros. No. 131,232; May 4; v. 274; p. 200.
Marmalade. James Robertson & Sons, Preserves Manufacturers. No. 135,311; Sept. 28; v. 278; p. 704.
Marmalade. C. W. Poole. No. 128,486; Jan. 6; v. 270; p. 183.
Marshmallow powder and lemon, &c., flavoring extracts. Hipolite Company. No. 128,730; Jan. 13; v. 270; p. 339.
Marshmallows. Continental Candy Corporation. No. 138,232; Dec. 21; v. 281; p. 563.
Marshmallows. Theodore Gottmann & Sons. No. 137,788; Dec. 7; v. 281; p. 196.
Massaging-machines. Electrical. Western Electric Company. No. 130,989; May 4; v. 274; p. 192.
Matches. Stromborg Export & Import Co. Nos. 130,121–8; Apr. 6; v. 273; p. 182.
Matches. Stromborg Export & Import Co. No. 136,654; Nov. 2; v. 280; p. 188.
Mats and runners, Leather table. Excello Mat Company. No. 134,640; Sept. 14; v. 278; p. 355.

Digitized by Google

Mats, Floor-. E. Jackson. No. 132,975; July 6; v. 276; p. 202.
Mats for automobiles, Fibrous rubber floor-board. Rub-Tex Organization Company. No. 134,533; Sept. 7; v. 278; p. 161.
Mattresses. Carter Bros. Mattress Company. No. 137,568; Nov. 30; v. 280; p. 996.
Mattresses. Norfolk Mattress Co. No. 137,009; Nov. 9; v. 280; p. 388.
Mattresses. Perfection Mattress & Spring Co. No. 133,487; July 27; v. 276; p. 771.
Mattresses. Salisbury & Satterlee Co. No. 134,790; Sept. 14; v. 278; p. 359.
Mattresses. Silkheart Mattress Co. No. 134,804; Sept. 14; v. 278; p. 360.
Mattresses, Felt. The Mebane Bedding Co. No. 134,736; Sept. 14; v. 278; p. 358.
Mattresses, metal beds, couches, &c. Salisbury & Satterlee Co. No. 134,791; Sept. 14; v. 278; p. 359.
Mattresses, pillows, springs. Greenpoint-Southern Company. No. 133,251; July 20; v. 276; p. 590.
Mayonnaise. G. F. Von Holt. No. 132,852; June 29; v. 275; p. 1020.
Mayonnaise and salad dressings. Jaeger & Kuenzler. No. 137,276; Nov. 23; v. 280; p. 794.
Mayonnaise-dressing. Baby Blue Food Products Co. No. 137,105; Nov. 23; v. 280; p. 789.
Mayonnaise dressing. Gold Star Mayonnaise Co. No. 138,007; Dec. 14; v. 281; p. 397.
Mayonnaise dressing, chilli-chow, and a marshmallow preparation. J. A. De Luca. No. 130,696; May 4; v. 274; p. 184.
Meal, Calf-. International Sugar Feed Co. No. 133,998; Aug. 10; v. 277; p. 388.
Meal, Pig-. International Sugar Feed Co. No. 133,997; Aug. 10; v. 277; p. 388.
Meals, hominy, &c., Cream and muffin. Purity Oats Company. No. 129,837; Mar. 9; v. 272; p. 367.
Measuring and price-computing machines, Cloth and ribbon combination. Grand Rapids Show Case Company. No. 137,789; Dec. 7; v. 281; p. 196.
Measuring and cost-computing machines, Fabric-. The Measuregraph Company. No. 134,256; Aug. 24; v. 277; p. 778.
Measuring and scientific appliances. Allied Machinery Company of America. No. 132,280; June 22; v. 275; p. 815.
Measuring and scientific appliances. Handley Page Limited. No. 131,814; May 25; v. 274; p. 833.
Measuring and scientific appliances. Precision Instrument Company. No. 131,579; May 18; v. 274; p. 607.
Measuring and scientific appliances. Precision Instrument Company. No. 131,824; May 25; v. 274; p. 833.
Measuring and scientific appliances. Reid Bros. No. 130,875; May 4; v. 274; p. 189.
Measuring and scientific appliances. Simmons Hardware Company. No. 129,076; Jan. 20; v. 270; p. 476.
Measuring and scientific appliances. Tiffany Company. Nos. 134,289–90; Aug. 24; v. 277; p. 779.
Measuring and scientific appliances and parts thereof. Hohmann Company. No. 136,038; Oct. 26; v. 279; p. 719.
Measuring appliances. Pneumercator Company. No. 131,822; May 25; v. 274; p. 833.
Meat patties. Acme Packing Co. No. 128,588; Jan. 13; v. 270; p. 335.
Meat products. Indian Packing Company. Nos. 130,524–5; Apr. 27; v. 273; p. 803.
Meat, Rabbit-. L. A. Scandrett. No. 134,079; Aug. 10; v. 277; p. 390.
Meat-slicing machines. Victor Slicing Machine Co. No. 136,238; Oct. 26; v. 279; p. 725.
Meats, Cold. Pollodoro Restaurant Co. No. 134,266; Aug. 24; v. 277; p. 778.
Meats, Smoked, canned, and pickled. D. Cree. No. 132,657; June 29; v. 275; p. 1014.
Medals and bronzes. Tiffany & Company. Nos. 134,446–7; Aug. 31; v. 277; p. 974.
Medical and surgical supplies. Reid Bros. No. 129,060; Jan. 20; v. 270; p. 475.
Medical compound for syphilis. W. L. Capell. No. 131,423; May 18; v. 274; p. 602.
Medical compound for the treatment of syphilis. J. P. Harmer. No. 136,449; Nov. 2; v. 280; p. 182.
Medical compound for typhoid fever, &c. E. J. Vernon. No. 131,660; May 18; v. 274; p. 609.
Medical compounds for cuts, bruises, burns, &c. J. M. Sears. No. 135,069; Sept. 21; v. 278; p. 535.
Medical preparation for intestinal and urethral asepsis. E. O. Heinrich. No. 132,701; June 29; v. 275; p. 1016.
Medical preparation for relief of tuberculosis. R. M. Holguin. No. 129,470; Feb. 24; v. 271; p. 679.
Medical preparation for the relief of colds. W. J. Mears. No. 136,523; Nov. 2; v. 280; p. 184.
Medical preparations for epilepsy. J. Hut. No. 136,044; Oct. 26; v. 279; p. 720.
Medical solution for tuberculosis. G. Giambalvo. No. 129,725; Mar. 9; v. 272; p. 363.
Medicament for the treatment of malignant blood diseases. The Collapsule Company. Nos. 134,914–15; Sept. 21; v. 278; p. 530.
Medicated asthma and bronchial shields. B. A. Ludlow. No. 135,003; Sept. 21; v. 278; p. 533.
Medicated inhalant, a nerve and blood tonic, &c. V. Benedix. No. 132,299; June 22; v. 275; p. 815.
Medicated pastils. Meggeson & Co. No. 129,790; Mar. 9; v. 272; p. 365.
Medicinal and pharmaceutical preparations. A. E. Clark. No. 137,152; Nov. 23; v. 280; p. 791.
Medicinal and pharmaceutical preparations. J. A. Johnston. No. 138,268; Dec. 21; v. 281; p. 564.
Medicinal and pharmaceutical preparations. M. Robins. No. 138,499; Dec. 28; v. 281; p. 783.
Medicinal and pharmaceutical preparations. E. Wippel. No. 138,526; Dec. 28; v. 281; p. 784.
Medicinal and toilet preparations. Frederick F. Ingram Company. No. 136,478; Nov. 2; v. 280; p. 183.
Medicinal compound. Acidulated Drug Co. No. 129,411; Feb. 24; v. 271; p. 677.
Medicinal compound. E. J. Bricker. No. 135,614; Oct. 19; v. 279; p. 526.
Medicinal compound. Dunn Medicine Co. No. 129,682; Mar. 9; v. 272; p. 362.
Medicinal compound. Schweppes, Limited. No. 135,065; Sept. 21; v. 278; p. 535.
Medicinal compound for external treatment of hay-fever. Schieffelin & Co. No. 132,514; June 22; v. 275; p. 822.
Medicinal compound for the liver. C. E. Evans. No. 134,636; Sept. 14; v. 278; p. 355.
Medicinal compound for the treatment of colds, grippe, &c. E. V. Harrison. No. 132,405; June 22; v. 275; p. 819.
Medicinal compound for use as a liver-regulator and general tonic. C. L. Bolt. No. 134,479; Sept. 7; v. 278; p. 159.
Medicinal compound used in the treatment of rheumatism, kidney, &c., disease. A. M. Kytros. No. 129,487; Feb. 24; v. 271; p. 679.
Medicinal jelly. I. Toth. No. 128,879; Jan. 13; v. 270; p. 344.
Medicinal ointment intended for the treatment of hemorrhoids, eczema, &c. United Pharmacal Products Company. No. 129,912; Mar. 9; v. 272; p. 369.
Medicinal palliative for rheumatism. I. Toth. No. 129,908; Mar. 9; v. 272; p. 369.
Medicinal, pharmaceutical, and toilet preparations. Lebro Mfg. Co. No. 136,510; Nov. 2; v. 280; p. 184.
Medicinal powders, capsules, &c. Drug Products Co. No. 134,494; Sept. 7; v. 278; p. 159.
Medicinal preparation. The American Laboratories Co. No. 135,893; Oct. 26; v. 279; p. 715.
Medicinal preparation. The Balsamea Co. No. 135,597; Oct. 19; v. 279; p. 525.
Medicinal preparation. F. Dahl. No. 136,388; Nov. 2; v. 280; p. 180.
Medicinal preparation. The Drum Medicine Company. No. 130,702; May 4; v. 274; p. 184.
Medicinal preparation. A. M. Flood. No. 131,308; May 11; v. 274; p. 400.
Medicinal preparation. J. B. Fuqua. No. 128,703; Jan. 13; v. 270; p. 338.
Medicinal preparation. C. L. Heffner. No. 134,679; Sept. 14; v. 278; p. 356.
Medicinal preparation. J. E. Jameson. No. 132,421; June 22; v. 275; p. 819.
Medicinal preparation. Dr. J. H. McLean Medicine Co. No. 128,776; Jan. 13; v. 270; p. 341.
Medicinal preparation. L. L. Reed. No. 136,597; Nov. 2; v. 280; p. 186.
Medicinal preparation. Senoret Chemical Company. No. 128,850; Jan. 13; v. 270; p. 343.
Medicinal preparation. F. M. Siner. No. 129,310; Feb. 10; v. 271; p. 356.
Medicinal preparation. B. E. Tyson. No. 128,550; Jan. 6; v. 270; p. 185.
Medicinal preparation. Van Vleet-Mansfield Drug Co. No. 129,315; Feb. 10; v. 271; p. 357.
Medicinal preparation. The Yardley Chemical Corporation. No. 138,529; Dec. 28; v. 281; p. 784.
Medicinal preparation externally used. Fitzgerald & Perry. No. 134,648; Sept. 14; v. 278; p. 355.
Medicinal preparation for catarrh, &c. W. C. Bradley. No. 128,639; Jan. 13; v. 270; p. 336.
Medicinal preparation for catarrh, asthma, and bronchial troubles. J. Gallagher. No. 133,667; Aug. 3; v. 277; p. 172.
Medicinal preparation for cholera in hogs and poultry. L. Scott. No. 135,067; Sept. 21; v. 278; p. 535.
Medicinal preparation for colds, &c. N. Edgren. No. 129,959; Mar. 9; v. 272; p. 371.
Medicinal preparation for colds, neuralgia, &c. Sydney Ross Company. No. 129,403; Feb. 17; v. 271; p. 509.
Medicinal preparation for coughs, croup, &c. W. S. Taylor. No. 135,345; Sept. 28; v. 278; p. 705.
Medicinal preparation for diseases of the stomach, liver, &c. H. L. Hicks. No. 132,412; June 22; v. 275; p. 819.
Medicinal preparation for hog disenses. W. Wolters. No. 128,903; Jan. 13; v. 270; p. 345.
Medicinal preparation for indigestion. S. Major. No. 129,780; Mar. 9; v. 272; p. 365.
Medicinal preparation for indigestion, a liniment, pills, &c. S. Major. No. 129,496; Feb. 24; v. 271; p. 679.
Medicinal preparation for influenza. N. S. Sue. No. 131,631; May 18; v. 274; p. 609.
Medicinal preparation for nervous exhaustion, hysteria, &c. R. J. Strasenburgh Company. No. 132,824; June 29; v. 275; p. 1019.

Digitized by Google

Alphabetical list of trade-marks—Continued.

Medicinal preparations for pyorrhea. B. D. Hancock. No. 129,468; Feb. 24; v. 271; p. 678.
Medicinal preparation for rheumatism. S. J. Hon. No. 132,705; June 29; v. 275; p. 1016.
Medicinal preparation for rheumatism, &c. Kreo-Bub Chemical Co. No. 131,334; May 11; v. 274; p. 400.
Medicinal preparation for rheumatism, liver complaint, &c. A. M. Davis. No. 136,391; Nov. 2; v. 280; p. 180.
Medicinal preparation for skin diseases. E. A. Arndt. No. 129,598; Mar. 9; v. 272; p. 359.
Medicinal preparation for the gums of teething infants. Ellis-Jones Drug Co. No. 129,281; Feb. 10; v. 271; p. 355.
Medicinal perparation for the teeth and gums. Vanadium Chemical Company. No. 136,235; Oct. 26; v. 279; p. 725.
Medicinal preparation for the treatment of affections of the throat and bronchial tubes. McKesson & Robbins. No. 133,733; Aug. 3; v. 277; p. 174.
Medicinal preparations for the treatment of certain named ailments. The Calco Chemical Company. No. 133,369; July 27; v. 276; p. 767.
Medicinal preparation of hexamethylenamin. The Ely Lilly & Company. No. 134,098; Sept. 21; v. 278; p. 533.
Medicinal preparation used as a dentifrice. Brown's Tooth Powder Company. No. 132,309; June 22; v. 275; p. 816.
Medicinal preparation used as a dentrifrice. M. A. Kelly. No. 135,721; Oct. 19; v. 279; p. 529.
Medicinal preparation used as the treatment of certain named diseases. A. Stein. No. 135,819; Oct. 19; v. 279; p. 532.
Medicinal preparation used in the treatment of rheumatism and neuralgia. Svenska "Indux" Nederlaget. No. 129,896; Mar. 9; v. 272; p. 369.
Medicinal preparation useful in the treatment of whooping-cough, bronchial asthma, and croup. F. C. Spitzmiller. No. 129,884; Mar. 9; v. 272; p. 368.
Medicinal preparations. F. Ad. Richter & Co. No. 131,595; May 18; v. 274; p. 607.
Medicinal preparations. L. P. Beck. No. 136,318; Nov. 2; v. 280; p. 178.
Medicinal preparations. Chemische Werke vorm. Dr. Heinrich Byk. No. 128,330; Jan. 6; v. 270; p. 178.
Medicinal preparations. A. Laing. No. 138,192; Dec. 14; v. 281; p. 405.
Medicinal preparations. M. Niven. No. 138,321; Dec. 21; v. 281; p. 566.
Medicinal preparations. Nulyne Laboratories. No. 136,564; Nov. 2; v. 280; p. 185.
Medicinal preparations. F. Ozment. No. 138,198; Dec. 14; v. 281; p. 406.
Medicinal preparations. Pratt Food Co. No. 138,201; Dec. 14; v. 281; p. 406.
Medicinal preparations. J. Robert. No. 131,596; May 18; v. 274; p. 607.
Medicinal preparations. N. A. Sirois. No. 136,189; Oct. 26; v. 279; p. 724.
Medicinal preparations and products. Dr. J. H. McLean Medicine Co. No. 128,775; Jan. 13; v. 270; p. 341.
Medicinal preparations for certain skin disorders and as a blood-purifier. McKesson & Robbins. No. 132,449; June 22; v. 275; p. 820.
Medicinal preparations for external use for the treatment of rheumatism, sprains, &c. McKesson & Robbins. No. 132,446; June 22; v. 275; p. 820.
Medicinal preparations for external use in skin diseases, &c. McKesson & Robbins. No. 132,445; June 22; v. 275; p. 820.
Medicinal preparations for germicidal purposes, &c. McKesson & Robbins. No. 132,447; June 22; v. 275; p. 820.
Medicinal preparations for pulmonary affections. Eldridge & Hancock. No. 129,691; Mar. 9; v. 272; p. 362.
Medicinal preparations for venereal diseases. J. Brémont. No. 138,223; Dec. 21; v. 281; p. 563.
Medicinal spray. C. H. Lantz. No. 129,767; Mar. 9; v. 272; p. 365.
Medicinal tablet for the treatment of anemia and chlorosis. G. W. Carnrick Co. No. 134,899; Sept. 21; v. 278; p. 530.
Medicinal tablets for laxative, liver-regulator, &c. M. A. Winter Company. No. 131,886; May 25; v. 274; p. 835.
Medicinal toilet &c., preparations. Davies, Rose & Co. No. 136,787; Nov. 9; v. 280; p. 378.
Medicinal tonic. Reconstructive. Reliable Chemical Co. No. 132,499; June 22; v. 275; p. 822.
Medicinal treatment. E. G. Binz. No. 135,605; Oct. 19; v. 279; p. 526.
Medicinal treatment for catarrhal conditions. Acme Chemical Mfg. Co. No. 134,331; Aug. 31; v. 277; p. 971.
Medicinal treatment for colds and grippe. R. W. Murray. No. 134,749; Sept. 14; v. 278; p. 358.
Medicinal treatment for malaria. J. de Jesus. No. 129,672; Mar. 9; v. 272; p. 362.
Medicinal treatment for pyorrhea. The Educator Co. No. 134,430; Aug. 31; v. 277; p. 974.
Medicinal treatment for skin diseases. E. M. Hughes. No. 135,465; Oct. 12; v. 279; p. 343.
Medicinal treatment of rupture. G. M. Brown. No. 129,267; Feb. 10; v. 271; p. 355.
Medicine. George A. Breon & Co. No. 129,265; Feb. 10; v. 271; p. 355.
Medicine. John L. Fisher & Brother. No. 135,995; Oct. 26; v. 279; p. 718.
Medicine. The Glandular Research Laboratories. No. 136,434; Nov. 2; v. 280; p. 181.
Medicine. A. L. Reusing. No. 132,500; June 22; v. 275; p. 822.
Medicine against lumbago, kidney trouble, and rheumatism. J. M. Wackrow. No. 132,572; June 22; v. 275; p. 824.
Medicine and a salve for ailments common to animals and fowl. R. Roberts. No. 135,785; Oct. 19; v. 279; p. 531.
Medicine, Cathartic. L. E. Beach. No. 134,893; Sept. 21; v. 278; p. 529.
Medicine, Cough. U. S. Pharmaceutical Manufacturing Company. No. 134,524; Sept. 7; v. 278; p. 160.
Medicine, Digestive. L. P. Block. No. 129,622; Mar. 9; v. 272; p. 360.
Medicine for ailments of the stomach and abdomen. Shirley Chemical Co. No. 129,537; Feb. 24; v. 271; p. 681.
Medicine for blood diseases, &c. Restoria Chemical Company. No. 128,500; Jan. 6; v. 270; p. 183.
Medicine for catarrh, colds, asthma, &c. V. V. B. Company. No. 137,402; Nov. 23; v. 280; p. 798.
Medicine for certain named ailments. The Sentanel Remedies Company. No. 132,521; June 22; v. 275; p. 823.
Medicine for certain named diseases. Leo M. Wolf. No. 131,677; May 18; v. 274; p. 610.
Medicine for certain named diseases. Pomeroy and Company. No. 135,303; Sept. 28; v. 278; p. 704.
Medicine for certain named diseases. H. H. Rustman. No. 135,793; Oct. 19; v. 279; p. 531.
Medicine for certain named diseases. P. Zendejas. No. 135,564; Oct. 12; v. 279; p. 346.
Medicine for colds, &c. Alexander Drug Co. No. 128,280; Jan. 6; v. 270; p. 177.
Medicine for colds, coughs, and other throat and lung diseases. W. E. Bard. No. 134,476; Sept. 7; v. 278; p. 159.
Medicine for colds, grippe, &c. J. J. Boone. No. 135,611; Oct. 19; v. 279; p. 526.
Medicine for colds, la grippe, &c. H. N. Alford. No. 128,915; Jan. 20; v. 270; p. 471.
Medicine for colds, la grippe, &c. Alfred Brothers. No. 128,914; Jan. 20; v. 270; p. 471.
Medicine for constipation. E. Jacobs. No. 133,441; July 27; v. 276; p. 769.
Medicine for constipation, pellagra, dropsy, &c. J. H. Mims. No. 134,550; Sept. 7; v. 278; p. 161.
Medicine for cramp, diarrhea, &c. Ahern and Blachschlager Chemical Company. No. 132,281; June 22; v. 275; p. 815.
Medicine for diseases of the eye. L. Cacciatore. No. 132,317; June 22; v. 275; p. 816.
Medicine for diseases of the respiratory organs. American Oxidaze Company. No. 138,168; Dec. 14; v. 281; p. 403.
Medicine for dyspepsia, heartburn, indigestion, &c. C. L. Finney. No. 135,672; Oct. 19; v. 279; p. 527.
Medicine for eczema. C. E. Swaisland. No. 132,558; June 22; v. 275; p. 824.
Medicine for gall-stones and gravel. W. R. Jeffery. No. 134,982; Sept. 21; v. 278; p. 532.
Medicine for goiter. W. D. Cox. No. 137,173; Nov. 23; v. 280; p. 791.
Medicine for gout and certain named ailments. A. Lev. No. 133,451; July 27; v. 276; p. 770.
Medicine for ground-itch on children and sorehead on chickens. R. Allen. No. 134,563; Sept. 14; v. 278; p. 353.
Medicine for headache, neuritis, colds, &c. H. G. Wilson. No. 134,849; Sept. 14; v. 278; p. 361.
Medicine for indigestion. W. H. Herdman. No. 128,999; Jan. 20; v. 270; p. 473.
Medicine for indigestion, dyspepsia, and constipation. New Era Products Company. No. 132,755; June 29; v. 275; p. 1017.
Medicine for indigestion, nervous affections, &c. M. Szczepkowski. No. 131,849; May 25; v. 274; p. 834.
Medicine for indigestion, pellagra, &c. Sulfiron Medicine Company. No. 128,875; Jan. 13; v. 270; p. 344.
Medicine for live stock. Sipe Conditioner Mfg. Co. No. 132,529; June 22; v. 275; p. 823.
Medicine for nervous and sick headache. J. B. McManes. No. 136,522; Nov. 2; v. 280; p. 184.
Medicine for rheumatic ailments. E. L. Moadinger. No. 132,746; June 29; v. 275; p. 1017.
Medicine for rheumatism. Dimoulis and Spiliotakaras. No. 136,792; Nov. 9; v. 280; p. 378.
Medicine for rheumatism. J. S. Page. No. 129,520; Feb. 24; v. 271; p. 680.
Medicine for rheumatism. F. E. Smallidge. No. 129,883; Mar. 9; v. 272; p. 368.
Medicine for rheumatism, &c. Hoover Medicine Co. No. 128,735; Jan. 13; v. 270; p. 339.
Medicine for scars, croup, &c. L. Fisher. No. 128,694; Jan. 13; v. 270; p. 338.
Medicine for stomach, bowel, liver, and similar troubles for the blood. The Atlantic Remedies Co. No. 134,580; Sept. 14; v. 278; p. 353.

Digitized by Google

Medicine for stomach, liver, &c. A. Flores. Nos. 132,679–80; June 29; v. 275; p. 1015.
Medicine for the diseased mucous membrane of the nose, throat, mouth, and ear. Otorino Manufacturing Company. No. 131,358; May 11; v. 274; p. 401.
Medicine for the liver and kidneys. C. D. Stowe. No. 132,548; June 22; v. 275; p. 823.
Medicine for the treatment of mumps, measles, cholera, and liver troubles in hogs. Sons and Daughters of Levi. No. 134,817; Sept. 14; v. 278; p. 360.
Medicine for the treatment of sores, cuts, and wounds. Fondaol Laboratories Co. No. 131,752; May 25; v. 274; p. 831.
Medicine for the treatment of the blood, stomach, &c. Sieder & Sieder. No. 129,992; Mar. 9; v. 272; p. 868.
Medicine for the treatment of tuberculosis, bronchitis, and asthma. J. W. Wood. No. 135,169; Sept. 21; v. 278; p. 538.
Medicine for tick-fever in animals. Lone Prairie Remedies Co. No. 134,719; Sept. 14; v. 278; p. 357.
Medicine for tuberculosis. C. H. Johnson. No. 128,742; Jan. 13; v. 270; p. 339.
Medicine for venereal diseases. N. Hartofelis. No. 135,687; Oct. 19; v. 279; p. 528.
Medicine for use as a general tonic, &c. R. T. Chemical Co. No. 138,433; Dec. 28; v. 281; p. 781.
Medicine for use in the treatment of certain named diseases and affections. J. L. Herpich. No. 132,411; June 22; v. 275; p. 819.
Medicine for use in the treatment of tuberculosis. R. J. K. Gore. No. 132,392; June 22; v. 275; p. 818.
Medicine, Headache. Irvin & Remson. No. 136,048; Oct. 26; v. 279; p. 720.
Medicine, Kidney. Davies, Rose & Co. No. 137,187; Nov. 23; v. 280; p. 792.
Medicine, Laxative. N. B. Benson. No. 128,624; Jan. 13; v. 270; p. 336.
Medicine, Lung. F. E. Hunter. No. 131,496; May 18; v. 274; p. 604.
Medicine, Nerve. J. Major. No. 128,445; Jan. 6; v. 270; p. 182.
Medicine, Tonic. P. C. Zieschang. No. 132,869; June 29; v. 275; p. 1021.
Medicine used in the treatment of certain named diseases. Wa-Ba-Va-Nes-Ta Medicine & Drug Co. No. 131,664; May 18; v. 274; p. 610.
Medicine used in the treatment of chills, fever, malaria, &c. F. B. McCrackin. No. 134,725; Sept. 14; v. 278; p. 358.
Medicine used in the treatment of tuberculosis. M. Hall. No. 134,674; Sept. 14; v. 278; p. 356.
Medicine, Whooping-cough. P. Castelli. No. 136,361; Nov. 2; v. 280; p. 179.
Medicines. The Ape Liniment Co. No. 135,898; Oct. 26; v. 279; p. 715.
Medicines. W. T. Knight. No. 136,056; Oct. 26; v. 279; p. 720.
Medicines and pharmaceutical preparations. J. H. Creel. No. 136,386; Nov. 2; v. 280; p. 180.
Medicines and pharmaceutical preparations. J. L. Greenbaum. No. 136,019; Oct. 26; v. 279; p. 719.
Medicines and pharmaceutical preparations. Mercer and De Velvis. No. 136,096; Oct. 26; v. 279; p. 721.
Medicines and pharmaceutical preparations. G. M. de Waltoff. No. 137,205; Nov. 23; v. 280; p. 792.
Medicines and pharmaceutical preparations, Certain named. H. A. Metz. No. 132,743; June 29; v. 275; p. 1017.
Medicines for female diseases. Chattanooga Medicine Co. No. 128,649; Jan. 13; v. 270; p. 337.
Medicines for liver, kidneys, and stomach troubles, Compound of. Melton Medicine Company. No. 135,012; Sept. 21; v. 278; p. 533.
Medicines for rheumatism, corns, cramps, &c. H. E. Young. No. 136,712; Nov. 2; v. 280; p. 190.
Medicines for the prevention of infections of the urinary tract. E. Fougera & Co. No. 134,650; Sept. 14; v. 278; p. 355.
Medicines for the stomach and liver. E. H. Baker. No. 138,420; Dec. 28; v. 281; p. 781.
Medicines for the treatment of certain named diseases and affections. Humphreys Homeopathic Medicine Co. Nos. 132,415–6; June 22; v. 275; p. 819.
Medicines for use as a stomach compound. A. Juster. No. 128,744; Jan. 13; v. 270; p. 340.
Medicines, Headache, neuralgia, rheumatism, la grippe, &c. T. I. C. Parsons. No. 135,769; Oct. 19; v. 279; p. 530.
Medicines, salves, &c. Foley & Company. No. 128,697; Jan. 13; v. 270; p. 338.
Metal and plain-metal sheets, Corrugated. Newport Rolling Mill Co. No. 138,077; Dec. 14; v. 281; p. 399.
Metal, Babbitt. United American Metal Corporation. No. 133,192; July 13; v. 276; p. 404.
Metal, Babbitt. United American Metals Corporation. No. 136,672; Nov. 2; v. 280; p. 189.
Metal capable of brightening zinc, removing oxid, &c. United Smelting & Aluminum Company. No. 130,021; Mar. 28; v. 272; p. 731.
Metal hand-buckets. Allied Machinery Company of America. No. 132,078; June 15; v. 275; p. 615.
Metal in the form of sheets, castings, and forgings, Non ferrous. Baush Machine Tool Company. No. 133,577; Aug. 3; v. 277; p. 169.
Metal ingots, Non-ferrous. Eastern Brass and Ingot Corporation. No. 133,124; July 18; v. 276; p. 401.
Metal, metal dust or powder, Disintegrated. Metals Disintegrating Company. No. 136,100; Oct. 26; v. 279; p. 721.
Metal, Non-ferrous. Bausch Machine Tool Company. No. 132,895; July 6; v. 276; p. 199.
Metal pellets. R. Rosen. No. 130,004; Mar. 16; v. 272; p. 540.
Metal piston-rings. Wedgerite Piston Ring Co. No 129,922; Mar. 9; v. 272; p. 869.
Metal-polish. B. H. Arnheim. No. 133,898; Aug. 10; v. 277; p. 385.
Metal-polish. S. Brisk. No. 138,169; Dec. 14; v. 281; p. 403.
Metal-polish. Bublitz & Hammond. No. 133,596; Aug. 3; v. 277; p. 170.
Metal-polish. The G. & H. Chemical Co. No. 133,931; Aug. 10; v. 277; p. 386.
Metal-polish. Cleroline Chemical Company. No. 137,157; Nov. 23; v. 280; p. 791.
Metal-polish. Dominant Products Co. No. 137,200; Nov. 23; v. 280; p. 792.
Metal-polish. C. M. Kimball Company. No. 132,004; June 8; v. 275; p. 414.
Metal-polish. Oliver Reeder & Son. No. 128,476; Jan 6; v. 270; p. 183.
Metal-polish. E. J. Palmer. No. 133,774; Aug. 3; v. 277; p. 176.
Metal-polish. Société Anonyme des Produits du Lion Noir. Nos. 136,936–7; Nov. 9; v. 280; p. 383.
Metal-polish. Société Anonyme des Produits du Lion Noir. Nos. 136,939–40; Nov. 9; v. 280; p. 383.
Metal-polish, liquid. C. R. Cook Paint Company. No. 136,784; Nov. 9; v. 280; p. 378.
Metal-polishes. Société Anonyme Les Produits du Naol. No. 136,192; Oct. 26; v. 279; p. 724.
Metal wear. The New England Enameling Company. No. 131,564; May 18; v. 274; p. 606.
Metal-working apparatus, Electric. Thomson Electric Welding Company. No. 130,018; Mar. 28; v. 272; p. 731.
Metal-working edge tools, pipe taps and dies. Moses Eadon & Sons. No. 136,406; Nov. 2; v. 280; p. 181.
Metals and metal castings and forgings. American Iron Products Company. No. 133,204; July 20; v. 276; p. 589.
Metals and metal castings and forgings. Blue Ridge Metals Corporation. No. 133,102; July 13; v. 276; p. 401.
Metals and metal castings and forgings. Hall & Pickles. No. 133,691; Aug. 3; v. 277; p. 173.
Metals and metal products. The National Supply Company. No. 136,878; Nov. 9; v. 280; p. 381.
Metals, Antifriction Babbitt. Ohio Metal Co. No. 133,294; July 20; v. 276; p. 592.
Metals, Babbitt. Premium Metal & Packing Co. No. 134,188; Aug. 17; v. 277; p. 582.
Metals, Babbitt, bearing, and type. Great Western Smelting & Refining Company. No. 134,167; Aug. 17; v. 277; p. 581.
Metals—namely, engravers' plates in blank. National Steel & Copper Plate Company. No. 130,554; Apr. 27; v. 273; p. 804.
Metallic pipes, unions, and sections. W. H. Dorman & Co. No. 135,652; Oct. 19; v. 279; p.527.
Meteorological instruments. C. E. Manning. No. 130,542; Apr. 27; v. 273; p. 804.
Middy-blouses. L. Gidding & Co. No. 135,680; Oct. 19; v. 279; p. 528.
Middy-blouses. Z. & S. Middy Co. No. 137,659; Nov. 30; v. 280; p. 999.
Middy-blouses. Straus, Royer & Strauss. No. 133,836; Aug. 3; v. 277; p. 178.
Middy-blouses and dresses. Enterprise Manufacturing Company. No. 131,102; May 4; v. 274; p. 196.
Middy blouses and dresses. Rite Mfg. Co. No. 135,520; Oct. 12; v. 279; p. 345.
Middy blouses and dresses. Rite Mfg. Co. No. 136,171; Oct. 26; v. 279; p. 723.
Middy-blouses and envelop-chemise. Higginbotham-Bailey-Logan Company. No. 133,429; July 27; v. 276; p. 769.
Middy-suits. Mar-Hof Co. No. 137,326; Nov. 23; v. 280; p. 796.
Military insignia. Mount Royal Corporation. No. 130,093; Apr. 6; v. 273; p. 181.
Milk and cream, eggs, butter. Fresh. F. D. Underwood. No. 128,552; Jan. 6; v. 270; p. 185.
Milk and cream testers, Electric. Imperial Electrical Co. No. 131,498; May 18; v. 274; p. 604.
Milk and evaporated cream, Condensed and evaporated. Rico Milk Products Company. No. 137,385; Nov. 23; v. 280; p. 798.
Milk and vegetable fat, Mixture or compound of. R. C. Roach. No. 136,913; Nov. 9; v. 280; p. 382.
Milk, buttermilk, and cream. Daltex Milk Products Company. No. 132,123; June 15; v. 275; p. 616.
Milk-chocolate. Carnation Milk Products Company. No. 135,209; Sept. 28; v. 278; p. 701.

Digitized by Google

Milk, Condensed. The Borden Company. Nos. 128,981–2; Jan. 20; v. 270; p. 471.
Milk, Condensed. The Borden Company. Nos. 128,984–41; Jan. 20; v. 270; pp. 471–2.
Milk, Condensed. The Borden Company. No. 130,265; Apr. 20; v. 273; p. 619.
Milk, Condensed. The Borden Company. No. 137,956; Dec. 14; v. 281; p. 396.
Milk, Condensed. Borden's Condensed Milk Company. No. 128,813; Jan. 6; v. 270; p. 178.
Milk, Condensed. Breakstone Bros. No. 130,467; Apr. 27; v. 273; p. 801.
Milk, Condensed. Ezekiel Brothers. No. 135,436; Oct. 12; v. 279; p. 343.
Milk, Condensed. Galeton Dairy Products Co. No. 128,705; Jan. 13; v. 270; p. 338.
Milk, Condensed. Galeton Dairy Products Co. No. 129,716; Mar. 9; v. 272; p. 368.
Milk, Condensed. W. E. Griffith. No. 135,453; Oct. 12; v. 279; p. 343.
Milk, Condensed. J. B. Gross Corporation. No. 130,741; May 4; v. 274; p. 879.
Milk, Condensed. Holland Food Corporation. No. 129,166; Jan. 27; v. 270; p. 614.
Milk, Condensed. Noble Dairy Farms. No. 131,202; May 4; v. 274; p. 199.
Milk, Condensed. Rogers Milk Corporation. No. 135,523; Oct. 12; v. 279; p. 345.
Milk, Condensed. Chas. T. Stork & Co. No. 136,653; Nov. 2; v. 280;; p. 188.
Milk, Condensed and evaporated. The Burt Olney Canning Company. No. 132,766; June 29; v. 275; p. 1018.
Milk, Condensed skimmed. J. Menist Company. No. 130,363; Apr. 20; v. 273; p. 622.
Milk, Cultured. M. C. Reynolds. No. 137,854; Dec. 7; v. 281; p. 198.
Milk, Dry. The Dry Milk Company. No. 133,122; July 13; v. 276; p. 401.
Milk. Electropure Dairy Company. No. 128,972; Jan. 20; v. 270; p. 472.
Milk, Evaporated. G. Batcheller Hall Co. No. 128,989; Jan. 20; v. 270; p. 473.
Milk, Evaporated. Federal Condensed Milk Company. No. 136,801; Nov. 9; v. 280; p. 379.
Milk, Evaporated. Freeport Condensed Milk Co. No. 136,426; Nov. 2; v. 280; p. 181.
Milk, Evaporated. Kinney Bros. No. 131,154; May 4; v. 274; p. 198.
Milk, Evaporated. T. C. Leedom. No. 135,479; Oct. 12; v. 279; p. 344.
Milk, Evaporated. National Dairy Co. No. 130,217; Apr. 13; v. 273; p. 403.
Milk, Evaporated. The Van Camp Packing Company. No. 130,964; May 4; v. 274; p. 192.
Milk, Fermented. S. Karak. No. 137,631; Nov. 30; v. 280; p. 998.
Milk powder. The International Company. No. 135,708; Oct. 19; v. 279; p. 529.
Milk powder. T. G. Remschel. No. 138,333; Dec. 21; v. 281; p. 566.
Milk, Preparations for the modification of. Horlick's Food Company. No. 133,994; Aug. 10; v. 277; p. 388.
Milk solids in powder form, Dried. California Central Creameries. No. 135,933; Oct. 26; v. 279; p. 716.
Milk, Sterilized. National Dairy Co. No. 128,467; Jan. 6; v. 270; p. 152.
Milk, Sweetened condensed and unsweetened evaporated. R. G. Morey. No. 131,555; May 18; v. 274; p. 606.
Milk, Unsweetened evaporated. A. O. Andersen & Co. No. 134,211; Aug. 24; v. 277; p. 777.
Milkers. M. Lammers. No. 137,301; Nov. 23; v. 280; p. 795.
Milking machinery. The De Laval Separator Company. No. 137,984; Dec. 14; v. 281; p. 397.
Milking-machines. Beaver Machine & Tool Co. No. 131,282; May 11; v. 274; p. 399.
Mill-white. The Tripod Paint Co. No. 137,071; Nov. 16; v. 280; p. 584.
Mills, Grist-. Diamond Grinder Company. No. 133,633; Aug. 3; v. 277; p. 171.
Milling-cutters, reamers, twist-drills, and taps. E. G. Wrigley & Co. Nos. 133,345–6; July 20; v. 276; p. 593.
Milling, turning, and the like, Metal-working machinery, Blades and cutters for. The Haynes Stellite Co. No. 134,138; Aug. 17; v. 277; p. 581.
Millstones, Electrically-operated grinders for. R. G. Haskins Company. No. 133,140; July 13; v. 276; p. 402.
Millwork, fiber and gypsum wall-boards, &c. Sterling Lumber Co. No. 132,054; June 8; v. 275; p. 416.
Millinery. C. A. Browning Co. No. 130,655; May 4; v. 274; p. 183.
Millinery. Shartenberg & Robinson Company. No. 129,394; Feb. 17; v. 271; p. 509.
Mince-meat. Granger & Company. No. 133,983; Aug. 10; v. 277; p. 388.
Mincing-machines, Food. Vermorel & Rendu. No. 136,682; Nov. 2; v. 280; p. 189.
Mirrors and picture-frames, Hand and bonnet. Samstag & Hilder Bros. No. 134,793; Sept. 14; v. 278; p. 360.
Mirrors and retinoscopes, Dental, &c. A. A. Anzell. No. 132,880; July 6; v. 276; p. 199.
Mirrors and retinoscopes, Dental, surgical, &c. A. A. Anzell. No. 135,593; Oct. 19; v. 279; p. 525.
Mirrors, Automobile-. J. J. Kunzemann. No. 134,990; Sept. 21; v. 278; p. 532.
Mirrors for automobiles, Rear-view. The J. Alexander Mfg. Co. No. 136,289; Nov. 2; v. 286; p. 177.
Mirrors for automobile-windshields. Sees-All Manufacturing Company. No. 138,114; Dec. 14; v. 281; p. 401.
Mirrors for vehicles, Rear-sight. Elbe Motor Co. No. 131,097; May 4; v. 274; p. 190.
Mirrors, Hand, wall, and stand. The Ames Bonner Company. No. 134,569; Sept. 14; v. 278; p. 353.
Mirrors, Rear-view automobile-. Kales Stamping Company. No. 138,394; Dec. 21; v. 281; p. 570.
Mixers, excavators, and loaders, &c. The T. L. Smith Company. No. 137,462; Nov. 23; v. 280; p. 800.
Mixing, kneading, and masticating machines. East Iron & Machine Co. No. 131,450; May 18; v. 274; p. 602.
Mixture which comprises chilli peppers, comino, &c. L. G. Page. No. 130,858; May 4; v. 274; p. 189.
Moisteners for gummed surfaces, Sanitary. Sengbusch Self-closing Inkstand Company. No. 132,520; June 22; v. 275; p. 823.
Molasses, olives, &c. Geo. R. Newell & Co. No. 128,808; Jan. 13; v. 270; p. 341.
Molds for concrete, Steel. Deslauriers Column Mould Co. No. 137,191; Nov. 23; v. 280; p. 792.
Monuments and tombstones. H. M. Gault. No. 128,980; Jan. 20; v. 270; p. 473.
Mops. Massasoit Manufacturing Company. No. 135,487; Oct. 12; v. 279; p. 344.
Mops. Massasoit Manufacturing Company. Nos. 137,652–5; Nov. 30; v. 280; p. 999.
Mops. Massasoit Manufacturing Company. No. 137,831; Dec. 7; v. 281; p. 197.
Mops. Massasoit Manufacturing Company. No. 138,291; Dec. 21; v. 281; p. 565.
Moss, Louisiana. Republic Company. No. 132,789; June 29; v. 275; p. 1018.
Motor-vehicles, &c., Drive units and pliable drives for. S. W. Prussian. No. 132,038; June 8; v. 275; p. 415.
Motors and engines, Internal-combustion aviation-. Societe des Moteurs Gnome et Rhone. No. 134,192; Aug. 17; v. 277; p. 582.
Motors, Electric. American Electric Company. No. 137,087; Nov. 23; v. 280; p. 789.
Motors, Electric. The Lincoln Electric Company. No. 136,722; Nov. 2; v. 280; p. 191.
Motors, Electric. Nicholas Power Company. No. 130,555; Apr. 27; v. 273; p. 804.
Motors, Gasolene-. Herschell-Spillman Motor Company, No. 136,463; Nov. 2; v. 280; p. 182.
Motors, Gasolene-. Lycoming Foundry and Machine Co. No. 137,828; Dec. 7; v. 281; p. 197.
Motors, Internal-combustion. The Rollaway Company. No. 133,310; July 20; v. 276; p. 592.
Motorcycles. The Cleveland Motorcycle Manfg. Co. No. 130,022; Mar. 30; v. 272; p. 911.
Motorcycles and attachments therefor. Hendee Manufacturing Company. No. 135,865; Oct. 19; v. 279; p. 535.
Motorcycles and bicycles. Excelsior Motor Mfg. & Supply Co. No. 138,239; Dec. 21; v. 281; p. 563.
Motorcycles, bicycles, side cars, &c. Harley-Davidson Motor Co. No. 135,864; Oct. 19; v. 279; p. 535.
Month or tooth wash, Antiseptic. The Denthol Company. No. 137,583; Nov. 30; v. 280; p. 996.
Mouth-organs. National Harmonica Company. No. 136,118; Oct. 26; v. 279; p. 722.
Mouth, teeth, gums, &c., Alkaline solution for. A. A. Riggs. No. 129,849; Mar. 9; v. 272; p. 367.
Mouth-wash. The Austen Cologne Company. No. 132,617; June 29; v. 275; p. 1013.
Mouth-wash. R. O. Leonard. No. 132,728; June 29; v. 275; p. 1016.
Mouth-wash and nasal douche. E. A. Troth. No. 128,881; Jan. 13; v. 270; p. 344.
Mouth-wash, Antiseptic. E. O. Swindells. No. 136,658; Nov. 2; v. 280; p. 188.
Mouth-wash, catarrh medicine, &c., Antiseptic. Blumauer-Frank Drug Company. No. 129,623; Mar. 9; v. 272; p. 360.
Mouth wash or spray. O. H. Tansey. No. 133,057; July 6; v. 276; p. 204.
Mowers, Lawn-. John Braun & Sons. Nos. 131,046–52; May 4; v. 274; p. 194.
Mucilage, glue, or library-paste. Aro-Maco Products Co. No. 137,097; Nov. 23; v. 280; p. 789.
Mucilage holder and applier. J. E. M. Products Laboratories. No. 137,279; Nov. 23; v. 280; p. 794.
Mucilage, paste, and sealing-wax. Pomeroy Ink Manufacturing Co. No. 137,372; Nov. 23; v. 280; p. 797.
Muffins. F. A. Schuller. No. 129,218; Jan. 27; v. 270; p. 616.
Music and music publications, Sheet-. D. E. Williams. No. 132,594; June 22; v. 275; p. 825.
Music and songs, Sheet-. L. H. Rathbone. No. 129,841; Mar. 9; v. 272; p. 367.
Music-boxes. Tiffany & Company. No. 138,356; Dec. 21; v. 281; p. 567.
Music-boxes. Tiffany & Company. No. 138,506; Dec. 28; v. 281; p. 784.

Digitized by Google

Music-playing instruments and music-rolls therefor, Mechanical. The Wilcox & White Co. No. 134,847; Sept. 14; v. 278; p. 361.
Music-roll ends. G. J. Crosman. No. 131,730; May 25; v. 274; p. 830.
Music-rolls. The Globe Co. No. 136,010; Oct. 26; v. 279; p. 719.
Music-rolls. Pianostyle Music Co. Nos. 129,829–30; Mar. 9; v. 272; p. 367.
Music, Sheet-. B. Brown. No. 136,325; Nov. 2; v. 280; p. 178.
Music, Sheet-. Producer Music Company. No. 133,493; July 27; v. 276; p. 771.
Music-sheet-perforating machines. Leabarian Manufacturing Company. No. 137,638; Nov. 30; v. 280; p. 998.
Musical-instrument pedals. Lyon & Healy. No. 132,734; June 29; v. 275; p. 1017.
Musical instruments, Stringed. J. A. Bolander. No. 132,630; June 29; v. 275; p. 1013.
Musical-instrument strings. Armour and Company. Nos. 134,575–8; Sept. 14; v. 278; p. 353.
Musical-instrument strings. M. E. Schoening Co. Nos. 135,330–1; Sept. 28; v. 278; p. 705.
Musical instruments. Manhattan Musical Instrument Co. No. 137,832; Dec. 7; v. 281; p. 197.
Musical instruments. New York Band Instr. Co. No. 134,752; Sept. 14; v. 278; p. 358.
Musical instruments, &c. The Regina Company. No. 136,167; Oct. 26; v. 279; p. 723.
Musical instruments. Thomas Machell & Sons. No. 129,777; Mar. 9; v. 272; p. 365.
Musical instruments and supplies therefor. Belclear Phonograph Corporation. No. 135,394; Oct. 12; v. 279; p. 341.
Musical instruments in the nature of a whistle, Novelty wind-operated. G. W. Stivers. No. 137,484; Nov. 23; v. 280; p. 801.
Musical instruments of the bugle and trumpet type, Wind. C. G. Conn, Ltd. No. 134,619; Sept. 14; v. 278; p. 354.
Muslins. D. Moses. No. 129,799; Mar. 9; v. 272; p. 366.
Mustard. American Mustard Co. No. 128,603; Jan. 13; v. 270; p. 335.
Nail-files, manicure-sticks, &c. Lustr-Ite Corporation. No. 130,540; Apr. 27; v. 273; p. 803.
Nail-polish, brilliantine, and cuticle-cream. H. J. Bosch. No. 131,418; May 18; v. 274; p. 601.
Nails and tacks. United Shoe Machinery Corporation. No. 137,073; Nov. 16; v. 280; p. 584.
Nails, Horseshoe and molders'. Fowler Nail Co. No. 130,499; Apr. 27; v. 273; p. 802.
Nails, Molders'. The Fowler Nail Co. No. 133,130; July 13; v. 276; p. 402
Nails, spikes, bolts, steel and iron pipes, &c. American Iron Products Company. No. 135,892; Oct. 26; v. 279; p. 715.
Nainsooks, muslins, long-cloth, cambrics. Carson, Pirie, Scott & Co. No. 130,666; May 4; v. 274; p. 183.
Name-plates and instruction-plates, Blank. Handley Page Limited. No. 132,955; July 6; v. 276; p. 201.
Napkin-holders commercially known as sanitary belts, Sanaho Specialty Company. No. 133,032; July 6; v. 276; p. 203.
Napkins, Sanitary. The Cellucotton Products Co. No. 134,900; Sept. 21; v. 278; p. 530.
Napkins, Sanitary. Kimberly-Clark Company. No. 128,416; Jan. 6; v. 270; p. 181.
Navigating, philosophical, &c., instruments and appliances. Henry Hughes & Son. No. 137,796; Dec. 7; v. 281; p. 196.
Nebulizers for hydrocarbon-engines. J. W. Brown. No. 135,923; Oct. 26; v. 279; p. 716.
Necklaces, Imitation-pearl. L. Heller & Son. No. 130,071; Apr. 6; v. 273; p. 180.
Necktie former and holder. L. F. Caumont. No. 129,132; Jan. 27; v. 270; p. 613.
Neckties. Adrian Neckwear Co. No. 128,589; Jan. 13; v. 270; p. 335.
Neckties. F. J. Bofsky. No. 129,624; Mar. 9; v. 272; p. 360.
Neckties. S. Cohen. No. 137,577; Nov. 30; v. 280; p. 996
Neckties. G. L. Hendrix. No. 130,313; Apr. 20; v. 273; p. 620.
Neckties. H. Kohirogawa. No. 136,502; Nov. 2; v. 280; p. 183.
Neckties. Wilson Brothers. No. 129,251; Jan. 27; v. 270; p. 617.
Neckties and cravats. Frau & Loevner. No. 135,544; Oct. 12; v. 279; p. 346.
Neckties and cravats. F. D. Palmer. No. 135,767; Oct. 19; v. 279; p. 530.
Neckties and scarfs, Men's. Block & Drexler. No. 128,633; Jan. 13; v. 270; p. 336.
Neckties, cravats, and scarfs. Franc. Strohmenger & Cowan. No. 131,754; May 25; v. 274; p. 834.
Neckties, cravats, mufflers, and collars. Rice-Stix Dry Goods Company. No. 133,307; July 20; v. 276; p. 592.
Neckties, mufflers, and ear-laps. New York Boys' Shops. No. 137,663; Nov. 30; v. 280; p. 999.
Needles for forming ornamental loops on fabrics, Hand-. C. Dubin. No. 135,654; Oct. 19; v. 279; p. 527.
Needles, knitting-pins, &c., Sewing, embroidery, and knitting. Chas. Webb and Son. No. 136,253; Oct. 26; v. 279; p. 726.
Needles, pins, button-hooks, &c., Hand-. Morris & Yeomans. No. 134,516; Sept. 7; v. 278; p. 160.
Needles, Sewing-machine. Union Special Machine Corporation. No. 135,351; Sept. 28; v. 278; p. 706.
Needles, Sewing-machine. Union Special Machine Company. Nos. 135,832–5; Oct. 19; v. 279; p. 532.
Needles, Sewing-machine. Union Special Machine Company. Nos. 136,228–9; Oct. 26; v. 279; p. 725.
Negligées. G. G. Thompson. No. 129,901; Mar. 9; v. 272; p. 369.
Negligées. G. G. Thompson. No. 130,944; May 4; v. 274; p. 191.
Negligées and work-shirts, Dress-. Brighton Shirt Co. No. 130,267; Apr. 20; v. 273; p. 619.
Negligées, semidress-gowns, wrappers, and kimonos. S. S. Fleishel. No. 137,598; Nov. 30; v. 280; p. 997.
Nerve and bone liniment, &c. C. E. Weber. No. 134,584; June 22; v. 275; p. 825.
Nests, Hens'. G. A. Brown. No. 137,565; Nov. 30; v. 280; p. 996.
New Testament edition. A. J. Holman Company. No. 137,265; Nov. 23; v. 280; p. 794.
Newspaper. Rev. L. Bojnowski. No. 133,360; July 27; v. 276; p. 767.
Newspaper. G. H. Currier. No. 129,667; Mar. 9; v. 272; p. 362.
Newspaper. Italian Barbers' Benevolent Society of New York. No. 129,757; Mar. 9; v. 272; p. 364.
Newspapers and publications. W. R. Nelson. No. 129,806; Mar. 9; v. 272; p. 366.
Newspaper articles, film and dramatic compositions, &c. L. J. Libby-Stilwell. No. 137,082; Nov. 16; v. 280; p. 581.
Newspaper-column. Mail and Express Company. No. 136,526; Nov. 2; v. 280; p. 184.
Newspapers, Daily. Chicago Daily News Company. No. 129,648; Mar. 9; v. 272; p. 361.
Newspaper, Daily business. The Fenton Publishing Company. No. 136,894; Nov. 9; v. 280; p. 382.
Newspaper, Old. Atterbury Bros, Inc. No. 131,956; June 8; v. 275; p. 413.
Newspaper-section. Evening News Publishing Company. No. 134,638; Sept. 14; v. 278; p. 355.
Newspaper-section. Star Company. Nos. 136,648–9; Nov. 2; v. 280; p. 188.
Newspaper-section title. Globe Printing Company. No. 133,417; July 27; v. 276; p. 769.
Newspaper-sections. Los Angeles Examiner. Nos. 133,456–8; July 27; v. 276; p. 770.
Newspaper, Weekly. Catholic News Publishing Company. No. 134,607; Sept. 14; v. 278; p. 354.
Newspapers. W. A. Neff. No. 135,290; Sept. 28; v. 278; p. 704.
Newspapers. The Dallas Saturday Night Company. No. 134,622; Sept. 14; v. 278; p. 354.
Nickel and alloys containing nickel. The International Nickel Co. No. 128,408; Jan. 6; v. 270; p. 181.
Night-dresses. Wachusett Shirt Co. No. 129,289; Jan. 27; v. 270; p. 617.
Nightgowns, petticoats, drawers, &c., Ladies'. Wolf Company. No. 131,000; May 4; v. 274; p. 193.
Night-wear. Cooper, Coate & Casey Dry Goods Co. No. 130,287; Apr. 20; v. 273; p. 620.
Nipples, infants' rubber water-bottles, &c. United Drug Company. No. 136,673; Nov. 2; v. 288; p. 189.
Noodles. Home-made Noodle Co. No. 131,324; May 11; v. 274; p. 400.
Notions. The Narrow Fabric Co. No. 134,750; Sept. 14; v. 278; p. 358.
Notions. Waldes & Co. Nos. 130,975–6; May 4; v. 274; p. 192.
Notions. Waldes & Co. No. 130,978; May 4; v. 274; p. 192.
Notions. Waldes & Co. No. 130,980; May 4; v. 274; p. 192.
Notions. Waldes & Co. Nos. 131,262–3; May 4; v. 274; p. 201.
Notions. Waldes & Co. No. 132,576; June 22; v. 275; p. 824.
Notions. Waldes & Co. No. 132,854; June 29; v. 275; p. 1020.
Notions. Waldes & Co. Nos. 133,079–82; July 6; v. 276; p. 205.
Notions and fancy goods. The Narrow Fabric Co. No. 136,114; Oct. 26; v. 279; p. 722.
Nozzles, pipes, couplings, &c. The Skinner Irrigation Company. No. 136,730; Nov. 2; v. 280; p. 192.
Nut-bars, Candied. Northwestern Candy Company. No. 133,011; July 6; v. 276; p. 203.
Nut-meats. V. V. N. Woodruff. No. 128,581; Jan. 6; v. 270; p. 186.
Nuts. M. O. Dantzler. No. 131,073; May 4; v. 274; p. 195.
Nuts and dried fruits. Habicht and Company. No. 131,991; June 8; v. 275; p. 414.
Nuts and dried fruits, Shelled, &c. Habicht and Company. Nos. 132,159–60; June 15; v. 275; p. 617.
Nuts, bolts, screws, and rivets. Upson Nut Company. No. 132,569; June 22; v. 275; p. 824.

Digitized by Google

Alphabetical list of trade-marks—Continued.

Nuts, Frosted. M. M. Burton. No. 137,771; Dec. 7; v. 281; p. 195.
Nuts, Pecan-. National Pecan Growers Exchange. No. 131,357; May 11; v. 274; p. 401.
Nuts, Pecan-. National Pecan Growers Exchange. No. 131,807; May 25; v. 274; p. 833.
Nuts, Shelled and unshelled. Habicht and Company. No. 131,473; May 18; v. 274; p. 602.
Nuts, shelled nuts both salted and unsalted, &c., Candied. Langert Aronson Candy Company. No. 136,508; Nov. 2; v. 280; p. 184.
Oakum. George Strafford Oakum Co. No. 137,047; Nov. 16; v. 280; p. 584.
Oars and paddles. Shea Oar Company. No. 131,924; May 25; v. 274; p. 836.
Oars, sweeps, and sculls. New York Boat Oar Co. No. 135,024; Sept. 21; v. 278; p. 533.
Oats, Rolled. The Corno Mills Company. No. 130,687; May 4; v. 274; p. 183.
Oats, Rolled. The Corno Mills Company. No. 133,395; July 27; v. 276; p. 768.
Oats, Rolled. Haas, Baruch & Co. No. 136,447; Nov. 2; v. 280; p. 182.
Odorizing and disinfectant compounds. Ideal Disinfectant Company. No. 136,045; Oct. 26; v. 279; p. 720.
Office equipment and furniture, Steel. The Berger Manufacturing Company. No. 133,352; July 27; v. 276; p. 767.
Oil and nail-polishes, Manicuring-. E. Burnham. No. 132,310; June 22; v. 275; p. 816.
Oil-cans and oilers. National Marine Lamp Company. No. 136,119; Oct. 26; v. 279; p. 722.
Oil and olives, Olive-. A. Da Costa. No. 130,170; Apr. 13; v. 273; p. 401.
Oil and other edible oils, Olive-. Torres y Ribelles. No. 134,274; Aug. 24; v. 277; p. 779.
Oil and tomato paste, Olive-. A. & C. Buscaglia Co. No. 130,662; May 4; v. 274; p. 183.
Oil-burners. C. A. Hammel. No. 132,696; June 29; v. 275; p. 1016.
Oil, Canned olive-. Cavanna & Company. No. 137,967; Dec. 14; v. 281; p. 396.
Oil, Choice winter yellow cotton-seed. Chas. Hollinshed Co. Nos. 137,263–4; Nov. 23; v. 280; p. 794.
Oil, Choice winter yellow cotton-seed. Chas. Hollinshed Co. No. 137,267; Nov. 23; v. 280; p. 794.
Oil-cloth, &c. Texoleum Co. of N. Y. No. 129,229; Jan. 27; v. 270; p. 616.
Oil-cloth. Ely & Walker Dry Goods Company. No. 133,642; Aug. 3; v. 277; p. 172.
Oil-cloths and enameled cloth, Table and shelf. Levy & Fish. No. 131,168; May 4; v. 274; p. 198.
Oil, Cocoanut-. India Refining Company. No. 128,739; Jan. 13; v. 270; p. 339.
Oil, Cod-liver. Scott & Bowne. No. 132,517; June 22; v. 275; p. 822.
Oil, Cod-liver. Scott & Bowne. No. 135,333; Sept. 28; v. 278; p. 705.
Oil compound for use in cutting metals, &c. E. F. Houghton & Co No. 131,777; May 25; v. 274; p. 832.
Oil compound used in the baking of food products. The Bakers Products Company. No. 135,596; Oct. 19; v. 279; p. 525.
Oil, Corn-. Douglas Company. No. 137,987; Dec. 14; v. 281; p. 397.
Oil, Cotton salad-. Rocco Perretta & Company. No. 138,086; Dec. 14; v. 281; p. 400.
Oil, Cotton-seed. J. Aspegren. Nos. 137,100–1; Nov. 23; v. 280; p. 789.
Oil, Creosote. C. R. Cook Paint Company. No. 128,339; Jan. 6; v. 270; p. 179.
Oil-cups. Bloom Flusher Co. No. 130,644; May 4; v. 274; p. 182.
Oil-cups. Lunkenheimer Company. No. 131,340; May 11; v. 274; p. 401.
Oil-cups. Lunkenheimer Company. No. 131,342; May 11; v. 274; p. 401.
Oil-cups. Lunkenheimer Company. No. 132,442; June 22; v. 275; p. 820.
Oil, Cutting-. Standard Oil Company. No. 136,646 Nov. 2; v. 280; p. 188.
Oil, Deodorized soy-bean. Chas. Hollinshed Co. No. 137,795; Dec. 7; v. 281; p. 196.
Oil, Edible vegetable. The American Cotton Oil Company. No. 131,396; May 18; v. 274; p. 601.
Oil, Epsom salts and sulfur, Castor-. Malone & Hyde. No. 131,545; May 18; v. 274; p. 606.
Oil for cutaneous diseases of animals, Medicated crude. Hawkeye Oil Company. No. 134,965; Sept. 21; v. 278; p. 532.
Oil, Kerosene-. The Texas Company. No. 129,404; Feb. 17; v. 271; p. 509.
Oil for kidney, liver, bladder, &c., troubles, Haarlem. Genuine Haarlem Oil Mfg. Co. No. 138,184; Dec. 14; v. 281; p. 404.
Oil for leather, Emulsifying. Vacuum Oil Company. No. 131,252; May 4; v. 274; p. 201.
Oil for paint and varnish building, Basic. J. F. Glidden. No. 133,974; Aug. 10; v. 277; p. 387.
Oil for sanctuary lamps and candles. B. Muller-Thym. No. 132,263; June 15; v. 275; p. 621.

Oil for use in making cores in foundries. A. Ohmstead. No. 135,294; Sept. 28; v. 278; p. 704.
Oil, Haarlem. H. R. Lathrop & Co. No. 131,527; May 18; v. 274; p. 605.
Oil, Lubricating-. Charleston Oil Company. No. 134,610; Sept. 14; v. 278; p. 354.
Oil, Lubricating-. Morgo Oil Co. No. 136,110; Oct. 26; v. 279; p. 722.
Oil, Lubricating. A. Mullins. No. 135,755; Oct. 19; v. 279; p. 530.
Oil, Lubricating-. Sonard Green Lubricating Company. No. 132,536; June 22; v. 275; p. 823.
Oil, Lubricating-. F. P. Symonds. No. 132,829; June 29; v. 275; p. 1020.
Oil, Lubricating-. Western Oil Refining Co. No. 136,987; Nov. 9; v. 280; p. 385.
Oil Machine-. Globe Grocery Stores, Inc. No. 132,154; June 15; v. 275; p. 617.
Oil, Medicated. Car-Bo-Thymol Company. No. 128,323; Jan. 6; v. 270; p. 178.
Oil, Medicated. Pepsotone Company. No. 131,575; May 18; v. 274; p. 607.
Oil of peppermint. National Aniline & Chemical Company. No. 129,192; Jan. 27; v. 270; p. 615.
Oil, Olive-. J. M. Adell. No. 136,283; Nov. 2; v. 280; p. 177.
Oil, Olive-. John A. Alban & Co. No. 128,891; Jan. 13; v. 270; p. 335.
Oil, Olive-. J. Bau. No. 130,260; Apr. 20; v. 273; p. 619.
Oil, Olive-. J. Bau. Nos. 134,340–2; Aug. 31; v. 277; p. 971.
Oil, Olive-. L. Benjamin & Sons. No. 136,320; Nov. 2; v. 280; p. 178.
Oil, Olive-. N. P. Economou. No. 131,096; May 4; v. 274; p. 196.
Oil, Olive-. A. Gaillard. Nos. 134,500–1; Sept. 7; v. 278; p. 160.
Oil, Olive-. Gamanos & Booskos. No. 131,982; June 8; v. 275; p. 414.
Oil, Olive-. W. L. Geer. No. 130,301; Apr. 20; v. 273; p. 620.
Oil, Olive-. F. N. Giavi. No. 130,731; May 4; v. 274; p. 185.
Oil, Olive-. Greek and Syrian Company. No. 136,018; Oct. 26; v. 279; p. 719.
Oil, Olive-. I. Haber. No. 132,695; June 29; v. 275; p. 1015.
Oil, Olive-. Maggioros & Rousos. No. 132,735; June 29; v. 275; p. 1017.
Oil, Olive-. D. Mangrané. Nos. 133,276–7; July 20; v. 276; p. 591.
Oil, Olive-. D. Mangrane. Nos. 135,744–5; Oct. 19; v. 279; p. 530.
Oil, Olive-. Musher & Company. No. 132,024; June 8; v. 275; p. 415.
Oil, Olive-. Musher & Company. No. 134,037; Aug. 10; v. 277; p. 389.
Oil, Olive-. J. Sanchiz de Quesada. No. 134,427; Aug. 31; v. 277; p. 974.
Oil, Olive-. B. J. Spiropoulos. No. 130,237; Apr. 13; v. 273; p. 404.
Oil or amyl alcohol, &c., Fusel-. U. S. Industrial Alcohol Co. No. 131,652; May 18; v. 274; p. 609.
Oil, Paint-. Para-Crude Oil Corp. No. 132,478; June 22; v. 275; p. 821.
Oil, Peanut-. Steele Wedeles Company. No. 128,870; Jan. 13; v. 270; p. 344.
Oil, preserved vegetables and fish, cheese, tea, pickles, candy, &c., Olive-. Strohmeyer & Arpe Company. No. 130,936; May 4; v. 274; p. 191.
Oil, Refined. Standard Oil Company of New York. No. 131,843; May 25; v. 274; p. 834.
Oil, Road-. Headley Good Roads Company. No. 134,507; Sept. 7; v. 278; p. 160.
Oil, Screw-cutting. Keystone Oil & Manufacturing Company. No. 132,719; June 29; v. 275; p. 1016.
Oil, Sesame-. Musher & Company. No. 128,798; Jan. 13; v. 270; p. 341.
Oil, Sewing-machine. W. T. Rawleigh Company. No. 128,495; Jan. 6; v. 270; p. 183.
Oil stearin, Cotton-seed-. Wyatt Bros. No. 129,106; Jan. 20; v. 270; p. 477.
Oil stones or hones, razor-strops, emery-paper, &c. Simmons Hardware Company. No. 129,877; Mar. 9; v. 272; p. 368.
Oil, Substitute for linseed-. The Hulbert Oil & Grease Co No. 133,262; July 20; v. 276; p. 591.
Oil substitute, Linseed-. Douglas Paint Oil Co. No. 134,633; Sept. 14; v. 278; p. 355.
Oil tablets, Olive-. Olive Tablet Company. No. 128,807; Jan. 13; v. 270; p. 342.
Oil to be used in emulsifying raw oils, Sulfureted. E. F. Kick. No. 134,700; Sept. 14; v. 278; p. 357.
Oil used in the treatment of woolen fabrics. The American Oil Company. No. 134,879; Sept. 21; v. 278; p. 529.
Oil, Wax polishing-. J. W. Bullen. No. 129,334; Feb. 17; v. 271; p. 507.
Oils. National Oil Products Co. No. 137,343; Nov. 23; v. 280; p. 796.

Digitized by Google

Oils, Alimentary. M. Pedrol Solé. No. 138,122; Dec. 14; v. 281; p. 401.
Oils and adhesive core compounds, Core-. Detroit Soluble Oil Co. No. 133,116; July 13; v. 276; p. 401.
Oils and fats, Edible. De Bruyn, Limited. No. 137,983; Dec. 14; v. 281; p. 396.
Oils and fats, Vegetable and animal. Fats and Oils Service Company. No. 131,459; May 18; v. 274; p. 603.
Oils and greases. Atlanta Refining Company. No. 131,703; May 25; v. 274; p. 829.
Oils and greases. The Atlantic Refining Company. No. 137,936; Dec. 14; v. 281; p. 395.
Oils and greases. Chelsea Engineering Sales Corporation. No. 137,148; Nov. 23; v. 280; p. 791.
Oils and greases. Crew Levick Company. Nos. 138,388–9; Dec. 21; v. 281; p. 570.
Oils and greases. Daljar Mfg. Co. No. 136,389; Nov. 2; v. 280; p. 180.
Oils and greases. The Fred G. Clark Co. No. 135,948; Oct. 26; v. 279; p. 717.
Oils and greases. Johnson Oil Refining Company. No. 133,150; July 13; v. 276; p. 402.
Oils and greases. McKee-Hodshon & Co. No. 129,495; Feb. 24; v. 271; p. 679.
Oils and greases. Sun Company. Nos. 133,187–8; July 13; v. 276; p. 408.
Oils and greases. Transcontinental Oil Co. No. 137,726; Nov. 30; v. 280; p. 1001.
Oils and greases for engines, machinery, &c., Lubricating. Delaware Electric & Supply Co. No. 133,629; Aug. 3; v. 277; p. 171.
Oils and greases for machinery, Lubricating. Chicago Pneumatic Tool Company. No. 129,339; Feb. 17; v. 271; p. 507.
Oils and greases, Lubricating. J. P. Breen. No. 133,590; Aug. 3; v. 277; p. 170.
Oils and greases, Lubricating. T. A. Burch. No. 133,601; Aug. 3; v. 277; p. 170.
Oils and greases, Lubricating. Fred G. Clark Co. No. 131,723; May 25; v. 274; p. 830.
Oils and greases, Lubricating. Columbia Refining Co. No. 134,916; Sept. 21; v. 278; p. 530.
Oils and greases, Lubricating. Crew Levick Company. Nos. 138,384–7; Dec. 21; v. 281; pp. 569–70.
Oils and greases, Lubricating-. Dearborn Chemical Company. No. 132,350; June 22; v. 275; p. 817.
Oils and greases, Lubricating. W. B. Dick & Company. No. 134,630; Sept. 14; v. 278; p. 355.
Oils and greases, Lubricating. Fiske Brothers Refining Co. No. 136,804; Nov. 9; v. 280; p. 379.
Oils and greases, Lubricating. Hagemeyer Trading Company. No. 128,396; Jan. 6; v. 270; p. 180.
Oils and greases, Lubricating. The Hulbert Oil & Grease Co. No. 137,260; Dec. 21; v. 281; p. 564.
Oils and greases, Lubricating. Motorlife Oil Company. No. 131,916; May 25; v. 274; p. 836.
Oils and greases, Lubricating. Pittsburgh Oil Refining Corporation. No. 136,585; Nov. 2; v. 280; p. 186.
Oils and greases, Lubricating. Robertson Lubricants Company. No. 136,916; Nov. 9; v. 280; p. 382.
Oils and greases, Lubricating. R. P. Searle. Nos. 133,813–14; Aug. 3; v. 277; p. 177.
Oils and greases, Lubricating. Societe des Moteurs Gnome et Rhone. No. 131,840; May 25; v. 274; p. 834.
Oils and greases, Lubricating. Star Oil Company. No. 131,630; May 18; v. 274; p. 608.
Oils and greases, Lubricating. Sterns Limited. No. 136,652; Nov. 2; v. 280; p. 188.
Oils and greases, Lubricating. Swan & Finch Co. No. 129,401; Feb. 17; v. 271; p. 509.
Oils and greases, Lubricating. The Todd Oil & Paint Co. No. 136,221; Oct. 26; v. 279; p. 725.
Oils and greases, Lubricating. United Products & Sales Corporation. No. 134,836; Sept. 14; v. 278; p. 361.
Oils and greases. Lubricating, illuminating, fuel, &c. The Atlantic Refining Company. Nos. 136,998–9; Nov. 9; v. 280; p. 387.
Oils, Core-. Loos & Dilworth. No. 132,191; June 15; v. 275; p. 618.
Oils, Cutting-. Crescent Oil Co. No. 128,344; Jan. 6; v. 270; p. 179.
Oils, Cutting-. D. A. Stuart & Co. No. 134,443; Aug. 31; v. 277; p. 974.
Oils, dressings, and paste polishes, Shoe and leather. The Master Manufacturing Co. No. 135,748; Oct. 19; v. 279; p. 530.
Oils, Edible. Aspegren & Company. No. 130,258; Apr. 20; v. 273; p. 619.
Oils, Edible. Aspegren & Co. No. 130,627; May 4; v. 274; p. 182.
Oils, Essential. F. W. Heine. No. 128,997; Jan. 20; v. 270; p. 473.
Oils, fluids, and compounds for waterproofing textiles and acidproofing fluids. E. L. Smith. No. 135,336; Sept. 28; v. 278; p. 705.
Oils, Floor-. J. W. Bullen. No. 131,716; May 25; v. 274; p. 830.
Oils for guns, &c., Lubricating-. L. C. Scott. No. 134,080; Aug. 10; v. 277; p. 390.
Oils, Fuel-. J. J. Cowley. No. 132,120; June 15; v. 275; p. 616.
Oils, Fuel-. Rochester Railway and Light Company. No. 135,522; Oct. 12; v. 279; p. 345.
Oils, Fuel-. Toledo Fuel Company. No. 131,855; May 25; v. 274; p. 834.
Oils, Fuel-. Toledo Fuel Company. No. 132,264; June 15; v. 275; p. 621.
Oils, gasolene, naphtha, &c. Clarendon Refining Company. No. 132,117; June 15; v. 275; p. 616.
Oils, gear and cup greases, Lubricating-. Motor Oils, Inc. No. 136,112; Oct. 26; v. 279; p. 722.
Oils, greases, and compound, Motor and lubricating. Petroleum Oil Company. No. 138,328; Dec. 21; v. 281; p. 566.
Oils, greases, and waxes, &c. Vacuum Oil Company. No. 131,862; May 25; v. 274; p. 834.
Oils, greases, and waxes, &c. Vacuum Oil Company. Nos. 131,864–7; May 25; v. 274; p. 834.
Oils, greases, &c., Cutting and lubricating. Sun Company. Nos. 137,713–14; Nov. 30; v. 280; p. 1001.
Oils, greases, &c., Lubricating. Daljar Mfg. Co. No. 131,733; May 25; v. 274; p. 830.
Oils, greases, naphtha, &c. Midwest Oil Company. No. 129,502; Feb. 24; v. 271; p. 680.
Oils, greases, waxes, gasolene, &c. Vacuum Oil Company. No. 131,863; May 25; v. 274; p. 834.
Oils, Heating, illuminating, and lubricating. H. M. Wells. No. 128,570; Jan. 6; v. 270; p. 186.
Oils, Illuminating and lubricating. Thomas B. McGovern, Jr., & Co. No. 129,371; Feb. 17; v. 271; p. 508.
Oils, Lubricating-. Hearn Oil Company. No. 131,773; May 25; v. 274; p. 831.
Oils, Lubricating-. Lamborn & Co. No. 131,795; May 25; v. 274; p. 832.
Oils, Lubricating, &c. McCormick & Co. No. 133,732; Aug. 3; v. 277; p. 174.
Oils, Lubricating-. Magnolia Petroleum Company. No. 135,279; Sept. 28; v. 278; p. 703.
Oils, Lubricating-. Pittsburgh Oil Refining Corporation. No. 136,584; Nov. 2; v. 280; p. 186.
Oils, Lubricating-. Puente Oil Company. No. 136,592; Nov. 2; v. 280; p. 186.
Oils, Lubricating-. The Schofield Oil Co. No. 129,893; Feb. 17; v. 271; p. 509.
Oils, Lubricating-. Sinclair Refining Company. No. 138,403; Dec. 21; v. 281; p. 571.
Oils, Lubricating-. J. D. Streett & Company. No. 137,512; Nov. 23; v. 280; p. 804.
Oils, Lubricating-. Tiona Refining Company. No. 137,069; Nov. 16; v. 280; p. 584.
Oils, Lubricating-. Vacuum Oil Company. No. 129,237; Jan. 27; v. 270; p. 617.
Oils, Lubricating-. Vacuum Oil Company. No. 136,234; Oct. 26; v. 279; p. 725.
Oils made from petroleum. Sinclair Refining Company. No. 132,248; June 15; v. 275; p. 620.
Oils of cotton-seed or the like for food purposes and chocolates. J. Weber. No. 132,858; June 29; v. 275; p. 1020.
Oils, Paint. Oil Products Company. No. 137,350; Nov. 23; v. 280; p. 797.
Oils, Refined. Standard Oil Company of New York. No. 128,526; Jan. 6; v. 270; p. 184.
Oils, Salad-. Ventoura & Begani. No. 138,152; Dec. 14; v. 281; p. 402.
Oils, sauces, dressings, Table and cooking. Musher & Company. No. 129,030; Jan. 20; v. 270; p. 471.
Oils used in medicinal preparations. Ferd. Baller & Co. No. 129,283; Feb. 10; v. 271; p. 355.
Oils, Vegetable. Commercial Refining Co. No. 136,782; Nov. 9; v. 280; p. 378.
Oils, Wool washing and treating. Sun Company. No. 128,876; Jan. 13; v. 270; p. 341.
Oilers, Force-feed. H. D. Lafferty. No. 131,523; May 18; v. 274; p. 605.
Ointment. C. J. Durling. No. 131,447; May 18; v. 274; p. 602.
Ointment. E. H. Koss. No. 134,704; Sept. 14; v. 278; p. 357.
Ointment. Skin Remedies Company. No. 128,856; Jan. 13; v. 270; p. 343.
Ointment. Vaporine Chemical Company. No. 128,562; Jan. 6; v. 270; p. 185.
Ointment. M. T. Vornholt. No. 129,406; Feb. 17; v. 271; p. 509.
Ointment, Alternative antiseptic. Sharp & Dohme. No. 131,833; May 25; v. 274; p. 833.
Ointment and preparation for the treatment of rheumatism, colds, &c. Zarheum Chemical Co. No. 132,600; June 22; v. 275; p. 825.
Ointment and tablets for the treatment of colds, influenza, &c. Fesler & Company. No. 134,646; Sept. 14; v. 278; p. 355.
Ointment, Antiseptic and healing. H. T. Melhuish. No. 134,740; Sept. 14; v. 278; p. 358.
Ointment, Antiseptic antipruritic. Sharp & Dohme. No. 131,834; May 25; v. 274; p. 833.
Ointment, Eczema-. Powerol Chemical Company. No. 128,823; Jan. 13; v. 270; p. 342.
Ointment for burns, cuts, &c. W. Marshall. No. 128,780; Jan. 13; v. 270; p. 341.
Ointment for external blood-poisoning sores. Mrs. M. Odell. No. 132,763; June 29; v. 275; p. 1018.
Ointment for external cancers, eczema, ulcers, &c. R. H. Heinrichs. No. 128,586; Jan. 6; v. 270; p. 186.
Ointment for external use. W. H. Young. No. 133,546; July 27; v. 276; p. 773.

Digitized by Google

Alphabetical list of trade-marks—Continued.

Ointment for growth and darkening of eyebrows and eyelashes. G. W. Ross. No. 134,434; Aug. 31; v. 277; p. 974.
Ointment for piles. Mrs. J. C. Cunningham. No. 134,925; Sept. 21; v. 278; p. 530.
Ointment for piles, burns, &c. W. C. Lynch. No. 131,343; May 11; v. 274; p. 401.
Ointment for pimples, &c. The Blemo Company. No. 128,315; Jan. 6; v. 270; p. 178.
Ointment for pimples, dandruff, and eczema. J. F. Gallaher. No. 134,951; Sept. 21; v. 278; p. 531.
Ointment for relief of hemorrhoids, &c., and salve for burns, &c. Howell and Ellis. No. 132,707; June 29; v. 275; p. 1016.
Ointment for skin affections of the human body. Davies, Rose & Co. No. 137,186; Nov. 23; v. 280; p. 792.
Ointment for skin diseases. The Ka-Dene Medicine Co. No. 135,716; Oct. 19; v. 279; p. 529.
Ointment for treatment of piles and similar complaints. A. Theodoropoulos. No. 131,635; May 18; v. 274; p. 609.
Ointment for treatment of skin diseases and piles. J. S. King. No. 128,750; Jan. 13; v. 270; p. 340.
Ointment for use in the treatment of la grippe, colds, &c. S. Schlup. No. 133,810; Aug. 3; v. 277; p. 177.
Ointment, Healing-. Seminole Chemical Co. No. 133,180; July 13; v. 276; p. 403.
Ointment, Healing-. O. Zeman. No. 128,910; Jan. 13; v. 270; p. 345.
Ointment, Nasal. Sinclair Pharmacal Co. No. 138,512; Dec. 28; v. 281; p. 784.
Ointment, Rubefacient. Sharp & Dohme. No. 131,831; May 25; v. 274; p. 833.
Ointment, Salicylic. T. Gilman, Jr. No. 128,982; Jan. 20; v. 270; p. 473.
Ointment, Scalp-. L. J. Larivee. No. 134,993; Sept. 21; v. 278 p. 532.
Ointment, Skin-. B. H. Smith. No. 138,514; Dec. 28; v. 281; p. 784.
Ointment used in the treatment of pulmonary diseases. Wingate's Salvo Manufacturing Co. No. 138,524; Dec. 28; v. 281; p. 784.
Ointment, Witch-hazel. Humphreys Homeopathic Medicine Co. No. 132,417; June 22; v. 275; p. 819.
Ointments and foot-powders, Healing-. C. Meyers. No. 136,101; Oct. 26; v. 279; p. 721.
Ointments and salves. Leighton Supply Co. No. 136,069; Oct. 26; v. 279; p. 720.
Ointments for burns, &c. Mrs. M. Napoleon. No. 128,799; Jan. 13; v. 270; p. 341.
Ointments, Healing, catarrh, pile, &c. F. H. Atkinson. No. 137,102; Nov. 23; v. 280; p. 789.
Ointments, petroleum jelly, and refined lanolin. Atriken Chemical Works. No. 132,292; June 22; v. 275; p. 815.
Oleomargarin. American Nut Butter Company. No. 133,893; Aug. 10; v. 277; p. 385.
Oleomargarin. Eckerson Company. No. 128,369; Jan. 6; v. 270; p. 179.
Oleomargarin. Edson Brothers. No. 129,353; Feb. 17; v. 271; p. 508.
Oleomargarin. Glidden Nut Butter Company. Nos. 134,239–40; Aug. 24; v. 277; p. 777.
Oleomargarin. The Great Atlantic and Pacific Tea Company. No. 131,986; June 8; v. 275; p. 414.
Oleomargarin. Harrow-Taylor Butter Co. No. 138,544; Dec. 28; v. 281; p. 786.
Oleomargarin. John F. Jelke Company. No. 136,481; Nov. 2; v. 280; p. 183.
Oleomargarin. Kellogg Products, Inc. No. 134,006; Aug. 10; v. 277; p. 388.
Oleomargarin. Kokomar Company. No. 130,781; May 4; v. 274; p. 186.
Oleomargarin. Middlesex County Creamery Co. No. 135,013; Sept. 21; v. 278; p. 533.
Oleomargarin. Wm. J. Moxley, Inc. No. 137,837; Dec. 7; v. 281; p. 197.
Oleomargarin. The Northern Butterine Company. No. 134,045; Aug. 10; v. 277; p. 389.
Oleomargarin. Nut Grove Butter Company. No. 132,468; June 22; v. 275; p. 821.
Oleomargarin. Nut Grove Butter Company. No. 134,047; Aug. 10; v. 277; p. 289.
Oleomargarin. Palmine Company. No. 134,261; Aug. 24; v. 277; p. 778.
Oleomargarin. R. S. Pearsall Butter Co. No. 135,770; Oct. 19; v. 279; p. 531.
Oleomargarin. The Procter and Gamble Company. No. 136,160; Oct. 26; v. 279; p. 723.
Oleomargarin. Ed S. Vail Butterine Co. No. 128,889; Jan. 13; v. 270; p. 344.
Oleomargarin. Wonder-Nut Food Products Company. Nos. 134,465–7; Aug. 31; v. 277; p. 975.
Olives. Arguimau & Ramée. No. 137,095; Nov. 23; v. 280; p. 789.
Olives and olive-oil. Finley Acker Co. No. 135,377; Oct. 12; v. 279; p. 341.
Olives, Pickled. Mt. Ida Packing Company. No. 131,192; May 4; v. 274; p. 199.
Onions, Fresh. Walla Walla Gardener's Association. No. 130,981; May 4; v. 274; p. 192.
Onions, potatoes, turnips, carrots, Fresh. S. Rosenblum. No. 134,433; Aug. 31; v. 277; p. 974.
Optical and scientific appliances. Spencer Lens Company. Nos. 136,943–4; Nov. 9; v. 280; p. 383.
Optical apparatus for magnifying and viewing stereoscopic, transparent, and photographic plates. Scientific Materials Company. No. 135,332; Sept. 28; v. 278; p. 705.
Optical goods. J. C. Kahan. No. 134,178; Aug. 17; v. 277; p. 582.
Optical goods. Nomar Optical Co. No. 136,124; Oct. 26; v. 279; p. 722.
Optical goods and furnishings. J. A. Miller. No. 136,105; Oct. 26; v. 279; p. 721.
Optical goods and parts thereof, and measuring appliances. American Optical Company. No. 131,693; May 25; v. 274; p. 829.
Optical lenses and goggles. The Standard Optical Company. No. 135,545; Oct. 12; v. 279; p. 346.
Orange-juice. E. C. McManus. No. 132,450; June 22; v. 275; p. 820.
Oranges. Worthley & Strong Fruit Co. No. 137,744; Nov. 30; v. 280; p. 1001.
Oranges and grape-fruit, Fresh. Clearwater Citrus Company. No. 136,374; Nov. 2; v. 280; p. 180.
Oranges, Fresh. Buckeye Nurseries. No. 130,853; May 4; v. 274; p. 188.
Oranges, Fresh. R. T. Davies. No. 135,425; Oct. 12; v. 279; p. 342.
Oranges, Fresh. Santiago Orange Growers Association. No. 128,842; Jan. 13; v. 270; p. 343.
Oranges, Fresh. A. L. Woodill. Nos. 134,143–4; Aug. 10; v. 277; p. 392.
Oranges, lemons, grape-fruit. Edison Orange Growers Association. No. 136,719; Nov. 2; v. 280; p. 191.
Ore-concentrators. Deister Concentrator Company. No. 130,483; Apr. 27; v. 273; p. 802.
Organ, House. S. Blum. No. 136,330; Nov. 2; v. 280; p. 178.
Organ published intermittently, House. Salt's Textile Manufacturing Co. No. 129,863; Mar. 9; v. 272; p. 868.
Oven, Baker's electric. Electrik Maid Bake Shops. No. 136,409; Nov. 2; v. 280; p. 181.
Ovens for baking bread. Meek Oven Manufacturing Company. No. 136,533; Nov. 2; v. 280; p. 184.
Ovens for baking bread, pastry, &c., Electric. Keeps-Fresh Electric Bakeries. No. 131,515; May 18; v. 274; p. 605.
Overalls. Brownstein-Louis Company. No. 130,658; May 4; v. 274; p. 183.
Overalls. Carson, Pirie, Scott & Co. No. 132,321; June 22; v. 275; p. 816.
Overalls. Cowden Manufacturing Co. No. 130,688; May 4; v. 275; p. 184.
Overalls. Crown Overall Manufacturing Company. No. 128,351; Jan. 6; v. 270; p. 179.
Overalls. The Crown Overall Manufacturing Company. No. 130,690; May 4; v. 274; p. 184.
Overalls. The Free Land Overall Manufacturing Co. No. 133,663; Aug. 3; v. 277; p. 172.
Overalls. Keef & Rountree Dry Goods Co. No. 135,719; Oct. 19; v. 279; p. 529.
Overalls. L. Lewin Company. No. 138,477; Dec. 28; v. 281; p. 783.
Overalls. Lewis Lewin Company. Nos. 138,284–5; Dec. 21; v. 281; p. 565.
Overalls. The Pioneer Overall Company. No. 133,781; Aug. 3; v. 277; p. 176.
Overalls. Rosenbaum Brothers. No. 134,785; Sept. 14; v. 278; p. 359.
Overalls. Sears, Roebuck and Co. No. 137,443; Nov. 23; v. 280; p. 799.
Overalls. Standard Tent & Awning Co. No. 130,415; Apr. 20; v. 273; p. 624.
Overalls. Union Joe Overall Co. No. 132,567; June 22; v. 275; p. 824.
Overalls and jackets. Happ Brothers Co. No. 130,744; May 4; v. 274; p. 185.
Overalls and one-piece garments. The Powers Manufacturing Company. No. 129,203; Jan. 27; v. 270; p. 616.
Overalls and pants. Large & Roomy Overall Mfg. Co. No. 132,187; June 15; v. 275; p. 618.
Overalls and shop-coats. L. Kohn. No. 131,160; May 4; v. 274; p. 198.
Overalls and work-clothes. Jobbers Overall Co. No. 138,472; Dec. 28; v. 281; p. 783.
Overalls and work-shirts. Blubuck Manufacturing Co. No. 129,125; Jan. 27; v. 270; p. 613.
Overalls, coats, pants, &c. Pyramid Clothing Manufacturing Company. No. 132,492; June 22; v. 275; p. 822.
Overalls for children. E. A. Hill. No. 134,967; Sept. 21; v. 278; p. 532.
Overalls for men and boys. Wyman Partridge & Co. No. 136,708; Nov. 2; v. 280; p. 190.
Overalls, jackets, jumpers, &c. E. D. Roemer. No. 132,233; June 15; v. 275; p. 619.
Overalls, jumpers, and work-shirts. Pyramid Clothing Manufacturing Company. No. 138,331; Dec. 21; v. 281; p. 566.
Overalls, jumpers and work-shirts. Textile Products Manufacturing Company. No. 130,943; May 4; v. 274; p. 191.

Digitized by Google

Overalls, jumpers, pants, and jackets. M. Hoffman. No. 138,259; Dec. 21; v. 281; p. 564.
Overalls, knee-pants, and coats, Boys'. Arthur A. Katten Company. No. 136,491; Nov. 2; v. 280; p. 183.
Overalls, knee-pants, and coats, Boys'. Arthur A. Katten Company. No. 137,632; Nov. 30; v. 280; p. 998.
Overalls, Men's. Finch, Van Slyck & McConville. No. 129,155; Jan. 27; v. 270; p. 614.
Overalls, Men's. J. Kirschner. Nos. 130,328–9; Apr. 20; v. 273; p. 621.
Overalls, overall-jumpers, work pants and shirts. The Bowman Overall Co. No. 135,401; Oct. 12; v. 279; p. 341.
Overalls, overall shirts, jackets, and pants. Bell Manufacturing Company. No. 135,198; Sept. 28; v. 278; p. 701.
Overalls, play-suits, waists, &c., Boys'. H. Ostrowsky Co. No. 132,475; June 22; v. 275; p. 821.
Overalls, sack and grocers' coats, work-aprons, trousers, and work-shirts. Burton Garment Mfg. Co. No. 135,405; Oct. 12; v. 279; p. 342.
Overalls, unionalls, and jumpers. H. D. Overall Co. No. 133,772; Aug. 3; v. 277; p. 176.
Overalls, work coats, shirts, and trousers. Hirsch-Mirviss Mfg. Co. No. 130,751; May 4; v. 274; p. 185.
Overcoating goods, Woolen. Worumbo Manufacturing Company. No. 132,072; June 8; v. 275; p. 417.
Overcoats, Men's and boys'. Wyman Partridge & Co. No. 133,881; Aug. 3; v. 277; p. 179.
Overgaiters. American Overgaiter Co. No. 130,611; May 4; v. 274; p. 181.
Overgaiters and spats. Tweedie Footwear Corporation. No. 137,298; Mar 23; v. 280; p. 798.
Overgaiters or spats. Federal Overgaiter Company. No. 136,416; Nov. 2; v. 280; p. 181.
Oxyacetylene and hydrogen welding and cutting equipment, supplies, and accessories therefor. Smith's Inventions Inc. No. 136,630; Nov. 2; v. 280; p. 187.
Oxygen and hydrogen gas, Compressed. Compressed Gas Corporation. No. 129,344; Feb. 17; v. 271; p. 507.
Oysters canned or otherwise put up, Fresh. L. P. Maggioni Company. Nos. 134,253–4; Aug. 24; v. 277; p. 778.
Oysters, Fresh, dried, and canned. Narragansett Bay Oyster Co. Nos. 130,365–6; Apr. 20; v. 273; p. 622.
Oysters, shrimp, crabs, and fish. Fresh and canned. Charles Noble, Jr., Company. No. 132,759; June 29; v. 275; p. 1017.
Package-binders and parts thereof. E. A. Rudin. No. 130,166; Apr. 6; v. 273; p. 181.
Packed miso, &c. M. Kushiro. No. 129,014; Jan. 20; v. 270; p. 474.
Packing. J. Crane. No. 134,489; Sept. 7; v. 278; p. 159.
Packing and cotton and leather belting, Asbestos sheet-. J. J. Koepsell Company. No. 129,764; Mar. 9; v. 272; p. 365.
Packing, Composition. P. S. Dodd. No. 133,121; July 13; v. 276; p. 401.
Packing, Fibrous steam-. Stewart Dickson & Company. No. 137,483; Nov. 23; v. 280; p. 801.
Packing, Journal-. Rogers' Journal Packing Company. No. 129,853; Mar. 9; v. 272; p. 367.
Packing, Machinery-. Eureka Packing Co., Sales Dept. No. 133,647; Aug. 3; v. 277; p. 172.
Packing, Machinery. The B. F. Goodrich Company. No. 136,442; Nov. 2; v. 280; p. 182.
Packing, Machinery. Union Asbestos & Rubber Company. No. 129,911; Mar. 9; v. 272; p. 369.
Packing, Metallic rod-. Rhodes Metallic Packing Co. No. 134,529; Sept. 7; v. 278; p. 160.
Packing, Metallic rod-. Rhodes Metallic Pack Co. No. 135,064; Sept. 21; v. 278; p. 534.
Packing, Sheet-. The Continental Supply Company. No. 137,022; Nov. 16; v. 280; p. 583.
Packing, Sheet-. The B. F. Goodrich Company. No. 138,249; Dec. 21; v. 281; p. 564.
Packing, Sheet-. James Walker & Co. No. 137,074; Nov. 16; v. 280; p. 585.
Packing, Steam and hydraulic. James Walker & Co. No. 137,075; Nov. 16; v. 280; p. 585.
Packings and jointings. James Walker & Co. No. 137,405; Nov. 23; v. 280; p. 798.
Packings, Asbestos composition. Goetze Gasket & Packing Company. No. 133,887; Aug. 3; v. 277; p. 179.
Packings, Asbestos composition. Goetze Gasket & Packing Company. No. 136,438; Nov. 2; v. 280; p. 182.
Packings, gaskets, &c. Philip Carey Manufacturing Company. No. 129,954; Mar. 9; v. 272; p. 370.
Padlocks, night-latches, &c. Simmons Hardware Company. No. 135,334; Sept. 28; v. 278; p. 705.
Pads, board clips, &c., Desk-. L. Sainberg. No. 128,510; Jan. 6; v. 270; p. 184.
Pads coated with radioactive minerals, Medicinal. The Radium Appliance Company. No. 136,163; Oct. 26; v. 279; p. 723.
Pads, Forehead-. Radior Co. Ltd. of London. No. 135,780; Oct. 19; v. 279; p. 531.
Pads, Forehead and under-chin. Radior Co. Ltd. of London. No. 134,776; Sept. 14; v. 278; p. 359.
Paint. Biggar Manufacturing Co. No. 129,330; Feb. 17; v. 271; p. 507.
Paint. Biggar Manufacturing Co. No. 129,331; Feb. 17; v. 271; p. 507.
Paint. The Brockway-Smith Corporation. No. 137,564; Nov. 30; v. 280; p. 996.
Paint. Indiana Indestructible Paint Co. Nos. 138,263–4; Dec. 21; v. 281; p. 564.
Paint and rough-surface coating, Ready-mixed. K. Koivisto. No. 131,790; May 25; v. 274; p. 832.
Paint, Anti-corrosive. Corrosanti Chemical Co. No. 133,231; July 20; v. 276; p. 590.
Paint, Cold-water. A. E. Maire. No. 134,729; Sept. 14; v. 278; p. 358.
Paint, Enamel. Campbell Glass & Paint Company. No. 129,337; Feb. 17; v. 271; p. 507.
Paint enamel. Simons Manufacturing Company. No. 137,700; Nov. 30; v. 280; p. 1000.
Paint, enamels, colors in oil, and varnish. Rex Paint Corporation. No. 133,795; Aug. 3; v. 277; p. 176.
Paint, Flat wall-. The Tripod Paint Co. No. 137,727; Nov. 30; v. 280; p. 1001.
Paint for acoustical work, Coating-. J. H. Stone. No. 133,328; July 20; v. 276; p. 593.
Paint for concrete, cement, bricks, tile, &c. The Goheen Corporation. No. 133,679; Aug. 3; v. 277; p. 173.
Paint for galvanizing iron. The Goheen Corporation. No. 133,677; Aug. 3; v. 277; p. 173.
Paint for iron and steel. The Goheen Corporation. Nos. 133,675–6; Aug. 3; v. 277; p. 173.
Paint for wood, Fireproof. The Goheen Corporation. No. 133,680; Aug. 3; v. 277; p. 173.
Paint, Liquid. Wadsworth, Howland & Co. No. 131,874; May 25; v. 274; p. 835.
Paint, Oil-. Elastic Paint Company. No. 137,780; Dec. 7; v. 281; p. 195.
Paint, Oil. Fort Wayne Drug Company. No. 132,374; June 22; v. 275; p. 818.
Paint, oil and acid stains, coaters, &c., Enamel. Federal Varnish Co. No. 131,750; May 25; v. 274; p. 831.
Paint, Ready-mixed. The Barrett Company. No. 128,929; Jan. 20; v. 270; p. 471.
Paint, Red-lead. The Goheen Corporation. No. 133,678; Aug. 3; v. 277; p. 173.
Paint-remover. H. Becker. No. 137,118; Nov. 23; v. 280; p. 790.
Paint, Water-. A. Oeters. No. 137,668; Nov. 30; v. 280; p. 999.
Paint, Wet mixed. Columbia Paint Co. No. 135,956; Oct. 26; v. 279; p. 717.
Paints, Block & Kuhl Company. No. 133,358; July 27; v. 276; p. 767.
Paints. J. G. Casad. No. 129,338; Feb. 17; v. 271; p. 507.
Paints. Ocean Paint Works. Nos. 137,665–6; Nov. 30; 1. 280; p. 999.
Paints, &c. Standard Cooper-Bell Co. No. 129,084; Jan. 20; v. 270; p. 476.
Paints and enamel paints, Dry, ready-mixed, and paste. Standard Varnish Works. No. 135,077; Sept. 21; v. 278; p. 535.
Paints and enamels, Wood, metal, &c. Boston Varnish Co. No. 129,333; Feb. 17; v. 271; p. 507.
Paints and painters' materials. The Beaver Varnish Company. Nos. 137,115–6; Nov. 23; v. 280; p. 790.
Paints and painters' materials. Devoe & Raynolds Company. No. 129,349; Feb. 17; v. 271; p. 508.
Paints and painters' materials. Diemont-Levy Company. No. 129,350; Feb. 17; v. 271; p. 508.
Paints and painters' materials. The Eagle-Picher Lead Co. No. 137,209; Nov. 23; v. 280; p. 792.
Paints and painters' materials. Egan, Ronan, Hausman Company, Incorporated. No. 131,742; May 25; v. 274; p. 830.
Paints and painters' materials. The Glidden Company. Nos. 134,658–9; Sept. 14; v. 278; pp. 355–6.
Paints and painters' materials. The Imperial Varnish and Color Company. No. 133,263; July 20; v. 276; p. 591.
Paints and painters' materials. The Pascal Paint Laboratories Co. No. 136,892; Nov. 9; v. 280; p. 382.
Paints and painters' materials. The Patterson Sargent Company. Nos. 133,483–4; July 27; v. 276; p. 771.
Paints and painters' materials. The Patterson-Sargent Company. No. 137,361. Nov. 23; v. 280; p. 797.
'aints and painters' materials. W. I. Peirce. No. 131,918; May 25; v. 274; p. 836.
Paints and painters' materials. B. F. Ruth. No. 137,060; Nov. 16; v. 280; p. 584.
Paints and painters' materials. Standard Varnish Works. No. 132,253; June 15; v. 275; p. 620.
Paints and painters' materials. Van Camp Hardware & Iron Company. No. 137,517; Nov. 23; v. 280; p. 805.
Paints and painters' materials and a furniture polish. Gerstendorfer Bros. No. 134,657; Sept. 14; v. 278; p. 355.
Paints and varnishes. D. H. Brandes. No. 134,601; Sept. 14; v. 278; p. 354.
Paints and varnishes. Buffalo House Wrecking & Salvage Co. No. 132,100; June 15; v. 275; p. 615.
Paints and varnishes. Henry A. Gardner Paint Co. No. 129,719; Mar. 9; v. 272; p. 363.
Paints and varnishes. Goodlass Wall & Company. No. 129,730; Mar. 9; v. 272; p. 263.
Paints and varnishes. Guthrie & Company. No. 137,618; Nov. 30; v. 280; p. 998.
Paints, Anticorrosive, antifouling, and mixed. Amalgamated Paint Co. No. 131,691; May 25; v. 274; p. 829.

Paints, Asphaltic. Standard Asphalt & Refining Co. No. 136,945; Nov. 9; v. 280; p. 383.
Paints, colors, Rust-resisting, weatherproof, &c. Goheen Manufacturing Company. No. 129,460; Feb. 24; v. 271; p. 678.
Paints, driers, wood-stains, &c. The Patterson-Sargent Company. Nos. 133,296–7; July 20; v. 276; p. 592.
Paints, &c., Dry and water paste. A. B. Ansbacher & Company, Inc. Nos. 134,571–2; Sept. 14; v. 278; p. 353.
Paints, dry colors, asphalt paint, paint-oil, &c., Ready-mixed. Pruett-Schaffer Chemical Company. No. 135,778; Oct. 19; v. 279; p. 531.
Paints, Dry, paste, and ready-mixed. Industrial Paint Company. No. 137,426; Nov. 30; v. 280; p. 998.
Paints, House and barn. The E. C. Harley Company. No. 133,696; Aug. 3; v. 277; p. 173.
Paints, House and roofing. George W. Reinhardt Co. No. 131,826; May 25; v. 274; p. 833.
Paints, linseed-oil, varnish, &c., black lead, graphite, &c. Chelsea Engineering Sales Corporation. No. 137,149; Nov. 23; v. 280; p. 791.
Paints, Mixed. Clem Lumber Company. No. 136,375; Nov. 2; v. 280; p. 180.
Paints, Mixed. Harland & Little. No. 131,770; May 25; v. 274; p. 831.
Paints, Mixed. P. C. Reilly. No. 129,388; Feb. 17; v. 271; p. 509.
Paints, paint-oils, and varnishes for metal surfaces. The Irvin, Jewell & Vinson Company. Nos. 138,265–6; Dec. 21; v. 281; p. 564.
Paints, paint-oils, varnishes, shellacs, lacquers, and finishes. A. R. Hacuser Co. No. 133,254; July 20; v. 276; p. 590.
Paints, pigments, colors ground in japan, oil-stains, &c. Kent & Purdy Paint Company. No. 133,152; July 13; v. 276; p. 402.
Paints, Ready-mixed. H. H. Hall. Nos. 137,791–2; Dec. 7; v. 281; p. 196.
Paints, Ready-mixed. King Paint Manufacturing Company. No. 136,054; Oct. 26; v. 279; p. 720.
Paints, Ready-mixed. Stearns McKay Manufacturing Company. No. 135,574; Oct. 12; v. 279; p. 348.
Paints, Ready-mixed and enamel. H. B. Blessing. No. 131,894; May 25; v. 274; p. 835.
Paints, Roofing and metal. Philip Carey Manufacturing Company. No. 132,481; June 22; v. 275; p. 821.
Paints, stains. Colonial Works. No. 133,390; July 27; v. 276; p. 768.
Paints, Structural-iron. Ohio Varnish Company. No. 138,550; Dec. 28; v. 281; p. 786.
Paints, varnish-stains, and clear varnish. W. W. Lawrence & Company. No. 136,065; Oct. 26; v. 279; p. 720.
Paints, varnishes, &c. California Paint Company. No. 135,935; Oct. 26; v. 279; p. 716.
Paints, varnishes, &c. Koppers Company. No. 131,791; May 25; v. 274; p. 832.
Paints, varnishes, &c. G. J. Liebich Co. No. 131,533; May 18; v. 274; p. 605.
Paints, varnishes, &c. Louisville Paint Mfg. Co. Nos. 137,005–6; Nov. 9; v. 280; p. 388.
Paints, varnishes, and paint compounds, Liquid. Paraffine Companies. No. 131,815; May 25; v. 274; p. 833.
Paints, varnishes, and stains. L. Born & Son. No. 137,957; Dec. 14; v. 281; p. 396.
Paints, varnishes, &c., for ships' bottoms. Graphite Products Limited. No. 131,763; May 25; v. 274; p. 831.
Paints, varnishes, &c., Oil-. Ottawa Paint Works. No. 136,135; Oct. 26; v. 279; p. 722.
Paints, Water-color. Milton Bradley Company. No. 137,126; Nov. 23; v. 280; p. 790.
Paints, wood-stains, varnishes. Brandram-Henderson Limited. No. 137,959; Dec. 14; v. 281; p. 396.
Painters' material. F. L. Keck. No. 137,292; Nov. 23; v. 280; p. 795.
Painters' materials. Pittsburgh Oil Refining Corporation. No. 137,370; Nov. 23; v. 280; p. 797.
Pajamas. Berkshire Shirt Co. No. 133,581; Aug. 3; v. 277; p. 170.
Pajamas. D. Friedman. No. 138,243; Dec. 21; v. 281; p. 564.
Pajamas and kimonos. B. Damsey. No. 137,581; Nov. 30; v. 280; p. 996.
Pajamas and nightgowns. Ely & Walker Dry Goods Company. No. 133,241; July 20; v. 276; p. 590.
Pajamas and underwear for men and children. Walter M. Steppacher & Bro. No. 137,922; Dec. 7; v. 281; p. 202.
Pajamas, night- robes, blouses, &c. H. D. Konski. No. 137,636; Nov. 30; v. 280; p. 998.
Pajamas, union-pajamas, sleeping and lounging garments, and night-shirts. M. Harris. No. 133,256; July 20; v. 276; p. 590.
Pamphlet. Weekly. National Coal Association. No. 129,801; Mar. 9; v. 272; p. 366.
Pamphlets and booklets. Edison Storage Battery Company. No. 133,403; July 27; v. 276; p. 768.
Pamphlets, circulars, &c. Duncan Lumber Company. No. 137,989; Dec. 14; v. 281; p. 397.
Pamphlets, circulars, and printed books. National Tuberculosis Association. No. 137,345; Nov. 23; v. 280; p. 796.
Pan, Metal baking-. The Wagner Manufacturing Company. No. 136,973; Nov. 9; v. 280; p. 384.
Panels, Wooden. Wisconsin Cabinet and Panel Company. No. 136,991; Nov. 9; v. 280; p. 385.
Pants and coats, Boys'. Liberty Boys Knee Pants Co. No. 133,452; July 27; v. 276; p. 770.
Pants and overalls. Macon Woolen Mills. Nos. 128,440–1; Jan. 6; v. 270; p. 182.
Pants, Boys'. Korrekt Pants Mfg. Co. No. 138,280; Dec. 21; v. 281; p. 565.
Pants, Infants'. Samstag & Hilder Bros. No. 130,903; May 4; v. 274; p. 190.
Pants, overalls, and jumpers, Work-. Rose, Rogers Co. No. 129,390; Feb. 17; v. 271; p. 509.
Pants, trousers, &c. Berkshire Manufacturing Company of Pittsfield. No. 129,263; Feb. 10; v. 271; p. 355.
Paper. Alling & Cory Company. No. 128,282; Jan. 6; v. 270; p. 177.
Paper. American Writing Paper Company. No. 128,604; Jan. 13; v. 270; p. 335.
Paper. American Writing Paper Company. No. 131,697; May 25; v. 274; p. 829.
Paper. Chicago Paper Company. No. 130,050; Apr. 6; v. 273; p. 179.
Paper. Crane & Co. No. 128,342; Jan. 6; v. 270; p. 179.
Paper. C. H. Dexter & Sons. No. 135,973; Oct. 26; v. 279; p. 718.
Paper. Esleeck Manufacturing Company. No. 128,373; Jan. 6; v. 270; p. 180.
Paper. Esleeck Manufacturing Co. No. 128,687; Jan. 13; v. 270; p. 338.
Paper. Stone & Andrew. No. 129,088; Jan. 20; v. 270; p. 476.
Paper. Waldes & Co. Nos. 137,896–7; Dec. 7; v. 281; p. 199.
Paper and cloth strips or tapes in rolls and strips and tape-moistening machines. New Products Company. No. 134,042; Aug. 10; v. 277; p. 389.
Paper and cloth strips or tapes used as a substitute for twine, and moistening machines. New Products Company. No. 132,756; June 29; v. 275; p. 1017.
Paper and envelops. Forest Paper Company. No. 128,977; Jan. 20; v. 270; p. 473.
Paper and envelops. Majestic Mills Paper Company Inc. No. 128,443; Jan. 6; v. 270; p. 182.
Paper and envelope. R. L. Wallace and J. J. Ople. No. 129,917; Mar. 9; v. 272; p. 629.
Paper and envelops. Whiting Paper Company. No. 129,932; Mar. 9; v. 272; p. 370.
Paper and envelops, Writing-. National Papeterie Company. No. 135,023; Sept. 21; v. 278; p. 583.
Paper and inked ribbons, Carbon-. Waters and Waters Manufacturing Co. No. 135,553; Oct. 12; v. 279; p. 346.
Paper and inked ribbons, Carbon-. Waters and Waters Manufacturing Company. No. 136,983; Nov. 9; v. 280; p. 384.
Paper and mailing-envelops. Forest Paper Company. No. 134,946; Sept. 21; v. 278; p. 531.
Paper and mailing-envelops, Bond-. Brooks Bank Note Company. No. 129,630; Mar. 9; v. 272; p. 360.
Paper and mailing-envelops, Writing-. American Writing Paper Company. No. 134,882; Sept. 21; v. 278; p. 529.
Paper and mailing-envelops, Writing-. Z. & W. M. Crane. No. 129,668; Mar. 9; v. 272; p. 361.
Paper and mailing envelops, Writing-. Eaton, Crane & Pike Company. No. 135,659; Oct. 19; v. 279; p. 527.
Paper and mailing-envelops, Writing-. Skillkrafters, Incorporated. No. 132,249; June 15; v. 275; p. 620.
Paper and mailing-envelops, Writing-. Whiting Paper Company. No. 131,269; May 4; v. 274; p. 201.
Paper and mailing-envelops, Writing-. Whiting Paper Company. No. 132,276; June 15; v. 275; p. 621.
Paper and mailing-envelops, Writing-. Whiting Paper Company. No. 134,135; Aug. 10; v. 277; p. 392.
Paper and mailing envelops, Writing, printing, bond and ledger. New York Oversea Co. No. 132,757; June 29; v. 275; p. 1017.
Paper and paper napkins, Toilet, silk, Japanese, &c. Waldes & Co. No. 137,895; Dec. 7; v. 281; p. 199.
Paper and paper products. The F. C. Traver Paper Co. No. 134,104; Aug. 10; v. 277; p. 391.
Paper and stationery. J. C. Blair Company. No. 129,621; Mar. 9; v. 272; p. 360.
Paper and stationery. Central Ohio Paper Company. No. 132,107; June 15; v. 275; p. 616.
Paper and stationery. The Central Ohio Paper Company. No. 132,638; June 29; v. 275; p. 1014.
Paper and stationery. G. E. De Vries & Co. No. 135,972; Oct. 26; v. 279; p. 717.
Paper and stationery. Knowlton Bros. Inc. No. 133,446; July 27; v. 276; p. 769.
Paper and stationery. New York-New England Company. No. 129,809; Mar. 9; v. 272; p. 366.
Paper and stationery. Spokane Office Supply Co. No. 129,885; Mar. 9; v. 272; p. 368.
Paper and stationery. Strathmore Paper Company. Nos. 132,825–7; June 29; v. 275; p. 1019.
Paper and stationery. Tiffany & Company. No. 136,217; Oct. 26; v. 279; p. 725.

Digitized by Google

Alphabetical list of trade-marks—Continued.

Paper and stationery, Writing-. White & Wyckoff Manufacturing Company. No. 135,165; Sept. 21; v. 278; p. 537.
Paper and toweling, Toilet. The John Hoberg Co. No. 128,403; Jan. 6; v. 270; p. 180.
Paper and typewriter-ribbons, Carbon-. De-Fi Manufacturing Company. No. 138,234; Dec. 21; v. 281; p. 563.
Paper and writing-tablets. Adams, Cushing & Foster. No. 128,275; Jan. 6; v. 270; p. 177.
Paper and writing-tablets. The Paper Mills Company. No. 135,032; Sept. 21; v. 278 p. 534.
Paper bags. Atlanta Paper Company. Nos. 128,293–4; Jan. 6; v. 270; p. 177.
Paper bags. J. Single. No. 130,112; Apr. 6; v. 273; p. 181.
Paper bags. J. Single. Nos. 133,823–4; Aug. 3; v. 277; p. 177.
Paper bags. Union Bag & Paper Corporation. No. 130,019; Mar. 23; v. 272; p. 781.
Paper bags. Victory Bag & Paper Co. No. 128,559; Jan. 6; v. 270; p. 185.
Paper bags. Victory Bag & Paper Co. No. 133,861; Aug. 3; v. 277; p. 178.
Paper bags. Victory Bag & Paper Co. Nos. 135,098–9; Sept. 21; v. 278; p. 536.
Paper bags. Victory Bag & Paper Co. No. 138,553; Dec. 28; v. 281; p. 787.
Paper bags. Wortendyke Manufacturing Company. No. 128,582; Jan. 6; v. 270; p. 186.
Paper bags. Wortendyke Manufacturing Company. No. 131,003; May 4; v. 274; p. 193.
Paper bags. Wortendyke Manufacturing Company. No. 133,879; Aug. 3; v. 277; p. 179.
Paper, Blotting-. Albemarle Paper Mfg. Co. No. 128,592; Jan. 13; v. 270; p. 335.
Paper, Bond-. Gilbert Paper Company. No. 131,120; May 4; v. 274; p. 196.
Paper, Bond-. Gilbert Paper Company. No. 131,758; May 25; v. 274; p. 831.
Paper, Bond-. West Virginia Pulp & Paper Company. No. 128,575; Jan. 6; v. 270; p. 186.
Paper, Bond-. Western Newspaper Union. No. 130,137; Apr. 6; v. 273; p. 182.
Paper, Bond-. The Whitaker Paper Company. No. 136,258; Oct. 26; v. 279; p. 726.
Paper, bond and linen writing-paper, and envelops, Ledger-. Whiting Paper Company. No. 130,444; Apr. 20; v. 273; p. 624.
Paper, Bond, ledger, &c. New York Oversea Company. No. 129,810; Mar. 9; v. 272; p. 366.
Paper, Bond, writing and printing. Munising Paper Company. No. 138,398; Dec. 21; v. 281; p. 571.
Paper, Book-. Kimberly-Clark Company. No. 137,634; Nov. 30; v. 280; p. 998.
Paper, Book, writing and cover. Chicago Paper Company. No. 135,861; Oct. 19; v. 279; p. 535.
Paper boxes and cartons. P. Zalkind. No. 134,855; Sept. 14; v. 278; p. 362.
Paper, Butcher's. S. L. Schwarz & Co. No. 129,967; Mar. 9; v. 272; p. 371.
Paper, Carbon-. The M. B. Cook Company. No. 129,658; Mar. 9; v. 272; p. 361.
Paper, Chemically-prepared. The Buckramite Mfg. Co. No. 129,632; Mar. 9; v. 272; p. 360.
Paper-cleaner compound, Wall-. Klenaseptic Manufacturing Company. Nos. 128,417–8; Jan. 6; v. 270; p. 181.
Paper-clips, index-tabs, file-signals, &c. George B. Graff Company. No. 136,443; Nov. 2; v. 280; p. 182.
Paper, Coated. Ideal Coated Paper Company. Nos. 129,752–3; Mar. 9; v. 272; p. 364.
Paper, Coated book and label. T. S. Youngsma. No. 128,908; Jan. 13; v. 270; p. 345.
Paper coated on one side with mucilage. Samuel Jones & Company. No. 138,035; Dec. 14; v. 281; p. 398.
Paper, &c., Coated printing-. A. M. Collins Manufacturing Company. No. 128,324; Jan. 6; v. 270; p. 178.
Paper, Coated relief overlay-. A. M. Collins Manufacturing Company. No. 132,648; June 29; v. 275; p. 1014.
Paper, Collodion self-toning printing-out. J. L. Lewis. No. 133, 157; July 13; v. 276; p. 403.
Paper, Cover-. Alexander-Holden Paper Co. No. 130,255; Apr. 20; v. 273; p. 619.
Paper, Cover-. The Whitaker Paper Company. No. 134,130; Aug. 10; v. 277; p. 392.
Paper, Cover-. Lester P. Winchenbaugh Co. Nos. 129,937–8; Mar. 9; v. 272; p. 370.
Paper, cover and book paper, cardboard, &c. Strathmore Paper Company. No. 137,712; Nov. 30; v. 280; p. 1000.
Paper cover for toilet-seats, Sanitary. J. I. Levy. No. 132,730; June 29; v. 275; p. 1017.
Paper covering for boxes. Producer's Paper Company. No. 128,826; Jan. 13; v. 270; p. 342.
Paper, Daily. The McCord Co. No. 137,321; Nov. 23; v. 280; p. 796.
Paper, Drawing-. Winsor & Newton. No. 129,940; Mar. 9; v. 272; p. 370.
Paper drinking-cups, Sanitary. C. Rosenthal. No. 133,804; Aug. 3; v. 277; p. 177.
Paper, Enameled. The Central Ohio Paper Company. No. 137,969; Dec. 14; v. 281; p. 396.
Paper, envelops, and tablets, Writing-. J. C. Blair Company. No. 128,310; Jan. 6; v. 270; p. 178.
Paper, envelops, tablets, and blank books. J. C. Blair Company. No. 128,311; Jan. 6; v. 270; p. 178.
Paper, envelops, tablets, and blank books. J. C. Blair Company. No. 129,620; Mar. 9; v. 272; p. 360.
Paper, envelops, tablets, and blank books. J. C. Blair Company. No. 132,629; June 29; v. 275; p. 1013.
Paper, envelops, tablets, blank books. J. C. Blair Company. No. 131,041; May 4; v. 274; p. 194.
Paper fabrics, Crinkled. The Otaka Fabric Company. No. 136,134; Oct. 26; v. 279; p. 722.
Paper fiber. M. B. Fredericks. No. 132,946; July 6; v. 276; p. 201.
Paper, Filter-. W. & R. Balston. No. 131,707; May 25; v. 274; p. 829.
Paper, Filter-. Henry Kayser & Fils. No. 134,987; Sept. 21; v. 278; p. 532.
Paper, Filter-. H. Reeve Angel & Co. No. 134,072; Aug. 10; v. 277; p. 390.
Paper, Fine writing-. Whiting Paper Company. No. 130,443; Apr. 20; v. 273; p. 624.
Paper, Foolscap-. Guthrie & Company Limited. No. 138,015; Dec. 14; v. 281; p. 397.
Paper for bed-coverings. National Art Company. No. 173,341; Nov. 23; v. 280; p. 796.
Paper for wrapping. The Alling and Cory Co. No. 137,923; Dec. 14; v. 281; p. 395.
Paper for wrapping tires and other articles. Angier Mechanical Laboratories. No. 132,612; June 29; v. 275; p. 1013.
Paper for writing and printing purposes, Bond-. Gilbert Paper Company. No. 136,433; Nov. 2; v. 280; p. 181.
Paper for writing, printing, and ledger purposes, Bond-. Neenah Paper Co. No. 132,214; June 15; v. 275; p. 619.
Paper, Gray filter-. H. Reeve Angel & Co. No. 132,787; June 29; v. 275; p. 1018.
Paper, Grease-proof parchment. Mountain Mill Paper Company. No. 137,917; Dec. 7; v. 281; p. 201.
Paper handkerchiefs. A. J. White Limited. No. 136,989; Nov. 9; v. 280; p. 385.
Paper hangings. The Wall Paper Manufacturers. No. 134,556; Sept. 7; v. 278; p. 161.
Paper, hectograph-ink, &c., Carbon-. Duplicator Manufacturing Company. No. 129,683; Mar. 9; v. 272; p. 362.
Paper holders, Memorandum-. Accounting Machine Company. No. 134,869; Sept. 21; v. 278; p. 529.
Paper, Ledger-. Empire Paper Company. No. 132,137; June 15; v. 275; p. 617.
Paper, Machine-bookkeeping. Byron Weston Co. No. 130,990; May 4; v. 274; p. 192.
Paper napkins, doilies, and circles, cake-laces. Bessire & Company. No. 137,946; Dec. 14; v. 281; p. 395.
Paper or fabric filing and indexing devices. The Expedite Organization. No. 135,989; Oct. 26; v. 279; p. 718.
Paper or pulp towels. The Lily Cup Company. No. 135,001; Sept. 21; v. 278; p. 533.
Paper, paper napkins and toweling, Toilet and wrapping. John Hoberg Co. No. 128,404; Jan. 6; v. 270; p. 181.
Paper, paper toweling and napkins, Toilet-. John Hoberg Co. No. 128,731; Jan. 13; v. 270; p. 339.
Paper, paper toweling and napkins, Toilet and tissue. The John Hoberg Co. No. 129,001; Jan. 20; v. 270; p. 473.
Paper, paper towels and napkins, &c., Printing, &c. The Central Ohio Paper Company. No. 132,108; June 15; v. 275; p. 616.
Paper, paper towels, tissue and wrapping paper, &c., Toilet-. The John Hoberg Co. No. 136,830; Nov. 9; v. 280; p. 380.
Paper patterns for men's clothes. R. J. Burgan. No. 134,224; Aug. 24; v. 277; p. 777.
Paper, Printing-. The Whitaker Paper Company. No. 135,164; Sept. 21; v. 278; p. 537.
Paper, Printing and writing. American Writing Paper Company. No. 128,283; Jan. 6; v. 270; p. 177.
Paper, Printing and writing. American Writing Paper Company. No. 128,286; Jan. 6; v. 270; p. 177.
Paper, Printing and writing. American Writing Paper Company. No. 132,609; June 29; v. 275; p. 1013.
Paper, Printing and writing. Henry Lindenmeyer & Sons. No. 135,274; Sept. 28; v. 278; p. 703.
Paper products. Brown Company. No. 133,915; Aug. 10; v. 277; p. 385.
Paper, Proofing-. Ware Coated Paper Company. No. 136,980; Nov. 9; v. 280; p. 384.
Paper-pulp. The Procter and Gamble Company. No. 134,772; Sept. 14; v. 278; p. 359.
Paper-pulp. The Procter and Gamble Company. No. 135,304; Sept. 28; v. 278; p. 704.
Paper-pulp. The Procter and Gamble Company. No. 136,590; Nov. 2; v. 280; p. 186.
Paper, Rack-exibitors for wall-. Ridgely Trimmer Company. No. 128,502; Jan. 6; v. 270; p. 183.
Paper, Reinforced. J. A. Greenlee. No. 132,398; June 22; v. 275; p. 818.
Paper, Safety-. The Bankers Supply Co. Nos. 128,299–300; Jan. 6; v. 270; p. 177.
Paper, Safety-. Bankers Supply Co. No. 129,604; Mar. 9; v. 272; p. 360.

Digitized by Google

Alphabetical list of trade-marks—Continued.

Paper, Safety-. G. La Monte & Son. No. 131,010; May 4; v. 274; p. 193.
Paper shot-shells. Winchester Repeating Arms Co. No. 130,140; Apr. 6; v. 273; p. 182.
Paper sleeve-protectors. Heco Envelope Company. No. 136,453; Nov. 2; v. 280; p. 182.
Paper-stock, book, newspaper, and wrapping paper, Finished. Morey and Company. No. 135,018; Sept. 21; v. 278; p. 533.
Paper, strawboards, shipping-tags, and envelops, Printing, writing, wrapping, and toilet. Zellerbach Paper Company. No. 132,868; June 29; v. 275; p. 1021.
Paper, superfine writing, bond, ledger, &c., Writing. Hammermill Paper Company. No. 137,793; Dec. 17; v. 281; p. 196.
Paper tablets. Williams, Davis, Brooks & Hinchman Sons. No. 137,424; Nov. 23; v. 280; p. 799.
Paper, Toilet-. The John Hoberg Co. No. 136,034; Oct. 26; v. 279; p. 719.
Paper, Toilet-. The John Hoberg Co. No. 136,465; Nov. 2; v. 280; p. 182.
Paper, Toilet-. Imperial Merchandise Company. Nos. 131,781–2; May 25; v. 274; p. 832.
Paper, Toilet-. George T. Johnson Co. No. 132,182; June 15; v. 275; p. 618.
Paper, Toilet-. Sauquoit Toilet Paper Company. No. 136,614; Nov. 2; v. 280; p. 187.
Paper towels. M. Levy. No. 135,480; Oct. 12; v. 279; p. 344.
Paper, Type-writing and printing. Royal Card & Paper Company. No. 129,857; Mar. 9; v. 272; p. 367.
Paper, Wall-. M. H. Birge & Sons Co. No. 129,617; Mar. 9; v. 272; p. 360.
Paper, Wall-. William Campbell Wall Paper Co. No. 135,936; Oct. 26; v. 279; p. 716.
Paper, Wall-. William Campbell Wall Paper Co. No. 136,348; Nov. 2; v. 286; p. 170.
Paper, Waterproof wrapping and lining. Angier Mills. No. 134,745; Sept. 14; v. 278; p. 358.
Paper, Window-display. Lester P. Winchenbaugh Co. No. 131,271; May 4; v. 274; p. 201.
Paper window-shades. Talbert-Whitmore Company. No. 133,845; Aug. 3; v. 277; p. 178.
Paper with metallic fasteners, hand stapling-machines, and staples, Devices for uniting sheets of. E. H. Hotchkiss Company. No. 137,913; Dec. 7; v. 281; p. 201.
Paper, Wrapping-. The Alling and Cory Co. No. 131,014; May 4; v. 274; p. 193.
Paper, Wrapping-. Brown Company. Nos. 135,615–6; Oct. 19; v. 279; p. 526.
Paper, Wrapping-. F. B. Dallam. No. 137,181; Nov. 23; v. 280; p. 792.
Paper, Wrapping-. General Paper and Cordage Company. No. 133,972; Aug. 10; v. 277; p. 387.
Paper, Wrapping-. Kirchheimer Bros. Co. No. 128,751; Jan. 13; v. 270; p. 340.
Paper, Wrapping-. Moore & Thompson Paper Company. No. 135,017; Sept. 21; v. 278; p. 533.
Paper, Wrapping-. The Whitaker Paper Company. No. 129,408; Feb. 17; v. 271; p. 509.
Paper, Wrapping-. Whitaker Paper Company. No. 135,163; Sept. 21; v. 278; p. 537.
Paper, Wrapping-. York Haven Paper Company. No. 131,680; May 18; v. 274; p. 610.
Paper, Wrapping and lining. Angier Mechanical Laboratories. No. 128,287; Jan. 6; v. 270; p. 177.
Paper, Wrapping and writing. Ultramares Corporation. No. 129,900; Mar. 9; v. 272; p. 369.
Paper, Writing-. R. P. Andrews Paper Company. No. 129,595; Mar. 9; v. 272; p. 359.
Paper, Writing-. L. L. Brown Paper Company. No. 129,953; Mar. 9; v. 272; p. 370.
Paper, Writing-. Byron Weston Co. No. 128,949; Jan. 20; v. 270; p. 472.
Paper, Writing-. Fox River Paper Company. No. 134,316; Aug. 24; v. 277; p. 781.
Paper, Writing-. Fox River Paper Company. No. 134,859; Sept. 14; v. 278; p. 363.
Paper, Writing-. Fox River Paper Company. No. 130,805; Nov. 9; v. 280; p. 379.
Paper, Writing-. Gilbert Paper Company. Nos. 129,726–7; Mar. 9; v. 269; p. 363.
Paper, Writing-. Gilbert Paper Company. No. 130,305; Apr. 20; v. 273; p. 620.
Paper, Writing-. Gilbert Paper Company. No. 131,119; May 4; v. 274; p. 196.
Paper, Writing-. Gilbert Paper Company. No. 131,121; May 4; v. 274; p. 197.
Paper, Writing-. Gilbert Paper Company. No. 132,148; June 15; v. 275; p. 617.
Paper, Writing-. Gilbert paper Company. No. 136,810; Nov. 9; v. 280; p. 379.
Paper, Writing-. Macy, R. H., & Co. No. 135,740; Oct. 19; v. 279; p. 530.
Paper, Writing-. M. Milton. No. 128,791; Jan. 13; v. 270; p. 341.
Paper, Writing-. H. G. Pohlmann. No. 136,587; Nov. 2; v. 280; p. 186.
Paper, Writing-. Western Bottle Mfg. Co. No. 130,988; May 4; v. 274; p. 192.
Paper, Writing-. Whiting Paper Company. No. 129,931; Mar. 9; v. 272; p. 870.
Paper, Writing-. Whiting Paper Company. No. 130, 994; May 4; v. 274; p. 193.
Paper, Writing-. Whiting Paper Company. No. 132,586; June 22; v. 275; p. 825.
Paper, Writing and printing. American Writing Paper Co. No. 132,081; June 15; v. 275; p. 615.
Paper, Writing and printing. American Writing Paper Company. Nos. 133,894–6; Aug. 10; v. 277; p. 385.
Paper, Writing and printing. American Writing Paper Company. No. 134,883; Sept. 21; v. 278; p. 529.
Paper, Writing and wrapping, cardboard and paper mailing-envelops. M. & F. Schlosser. No. 132,799; June 29; v. 275; p. 1019.
Papers. Dill & Collins Co. Nos. 129,678–9; Mar. 9; v. 272; p. 362.
Papers. Parsons & Whittemore. No. 129,043; Jan. 20; v. 270; p. 475.
Papers. B. D. Rising Paper Company. No. 129,952; Mar. 9; v. 272; p. 370.
Papers and blue macaroni-paper, Tailors' pattern-. Schmidt & Ault Paper Co. No. 138,107; Dec. 14; v. 281; p. 400.
Papers and inked ribbons, Carbon-. H. G. Tilleman. No. 135,093; Sept. 21; v. 278; p. 535.
Papers and mailing envelops, Writing, &c., American Paper Exports. No. 131,398; May 18; v. 274; p. 601.
Papers and tablets. Osborn Paper Company. Nos. 131,810–11; May 25; v. 274; p. 833.
Papers, and writing-tablets, Writing and printing. Osborn Paper Company. Nos. 132,768–9; June 29; v. 275; p. 1018.
Papers and writing-tablets, Writing and printing. Osborne Paper Company. No. 137,669; Nov. 30; v. 280; p. 999.
Papers, bristol-board, cardboard, &c. Strathmore Paper Company. No. 137,485; Nov. 23; v. 280; p. 801.
Papers, Cover-. Lester P. Winchenbaugh Co. No. 128,902; Jan. 13; v. 270; p. 345.
Papers, Ledger, writing, &c. L. L. Brown Paper Company. No. 130,654; May 4; v. 274; p. 182.
Papers, Linen, ledger, record, &c. L. L. Brown Paper Company. No. 128,318; Jan. 6; v. 270; p. 178.
Papers, paper napkins and towels, Toilet and tissue, &c. The John Hoberg Company. Nos. 135,696–9; Oct. 19; v. 279; p. 528.
Papers, Papeterie-. American Writing Paper Company. Nos. 131,694–6; May 25; v. 274; p. 829.
Papers, Papeterie-. American Writing Paper Company. Nos. 131,698–9; May 25; v. 274; p. 829.
Papers, Parchment-. Hamersley Manufacturing Company. No. 129,740; Mar. 9; v. 272; p. 364.
Papers, Transparent. Hamersley Manufacturing Company. No. 129,739; Mar. 9; v. 272; p. 364.
Papers, Transparent and gelatin. Chemical Paper Company. No. 137,970; Dec. 14; v. 281; p. 396.
Papers, Waxed, parchment, and transparent. Hamersley Manufacturing Company. No. 129,738; Mar. 9; v. 272; p. 364.
Papers, Wrapping-. Union Bag & Paper Corporation. No. 131,647; May 18; v. 274; p. 609.
Papers, Wrapping and printing. F. C. Strype. No. 134,096; Aug. 10; v. 277; p. 391.
Papers, Writing, printing, and wrapping. Reese & Reese. No. 129,844; Mar. 9; v. 272; p. 367.
Papers, Writing, printing, blotting, and wrapping. Parsons & Whittemore. No. 135,036; Sept. 21; v. 278; p. 534.
Parasols and umbrellas. J. A. Migel, Inc. No. 132,204; June 15; v. 275; p. 619.
Parasols and umbrellas. J. A. Migel, Inc. No. 133,466; July 27; v. 276; p. 770.
Parasols and umbrellas. J. A. Migel, Inc. No. 133,749; Aug. 3; v. 277; p. 175.
Parcel-post packages. Par Po. Mfg. Co. No. 135,033; Sept. 21; v. 278; p. 534.
Parchmentized fiber, sheets, rods, tubes, and disks. Diamond State Fibre Company. No. 130,700; May 4; v. 274; p. 184.
Paste, Adhesive. Ideal Paste & Chemical Works. Nos. 131,779–80; May 25; v. 274; p. 832.
Paste, Adhesive. Ideal Paste & Chemical Works. No. 132,972; July 6; v. 276; p. 202.
Paste and boiler, pipe, and radiator cement, Pipe-joint. Macbeth-Curtis-Moody Company. No. 136,858; Nov. 9; v. 280; p. 381.
Paste for shoe-dressing. F. J. Witt. No. 134,141; Aug. 10; v. 277; p. 392.
Paste for skin irritations, bites, and poisonings. F. W. Schoonmaker, Incorporated. No. 134,798; Sept. 14; v. 278; p. 360.
Paste goods, Cereal. The John R. Canepa Company. No. 137,772; Dec. 7; v. 281; p. 195.
Paste, mucilage, Library-. R. T. Furman. No. 134,237; Aug. 24; v. 277; p. 778.
Paste paints and varnishes. Beaver Varnish Company. No. 132,296; June 22; v. 275; p. 815.
Pastes and mucilages. The Leadenhall Press. No. 136,511; Nov. 2; v. 280; p. 184.
Pastes, Backing-. Hazen-Brown Company. No. 131,772; May 25; v. 274; p. 831.
Pastils, Throat-. McKesson & Robbins. No. 133,734; Aug. 3; v. 277; p. 174.

Digitized by Google

Alphabetical list of trade-marks—Continued.

Pastry, Cup or dish-like receptacles, fried or baked. The F. Beaumont National-Croustade Manufacturing Company. No. 133,211; July 20; v. 276; p. 589.
Patches for repairing rubber goods. H. Greenberg. No. 138,014; Dec. 14; v. 281; p. 397.
Patches, Puncture-curing. W. F. Goddard. No. 136,437; Nov. 2; v. 280; p. 181.
Patches, Self-vulcanizing. M. Straus. No. 133,837; Aug. 3; v. 277; p. 178.
Patches, Tube-. Leach Patch Company. No. 133,156; July 13; v. 276; p. 402.
Pavements and paving material. Warren Brothers Company. No. 132,068; June 8; v. 275; p. 416.
Pavements, Bituminous. Simpson Bros. Corporation. No. 130,236; Apr. 13; v. 273; p. 404.
Paving-mixers. The Foote Company. No. 129,158; Jan. 27; v. 270; p. 614.
Peaches, canned apples, peaches, &c., Fresh. Back Creek Valley Orchard Company. No. 128,927; Jan. 20; v. 270; p. 471.
Peanut-brittle. Well-Maid Confection Co. No. 138,554; Dec. 28; v. 281; p. 787.
Peanut-butter. Woldert Peanut Products Co. No. 134,142; Aug. 10; v. 277; p. 392.
Peanut-butter and cereal coffee. Johnson Educator Food Co. No. 134,000; Aug. 10; v. 277; p. 388.
Peanut-butter and salted peanuts. P. B. Candy Co. No. 137,964; Dec. 14; v. 281; p. 396.
Peanut-butter and salted peanuts. Wm. T. Mullikin Co. No. 129,506; Feb. 24; v. 271; p. 680.
Peanut-butter, spices, canned goods, &c. G. E. Bursley & Co. No. 135,932; Oct. 26; v. 279; p. 716.
Peanut-butter, vinegar, rice, &c. The Russell Jobbers' Mills. No. 131,230; May 4; v. 274; p. 200.
Peanut-oil. Musher & Company. No. 128,797; Jan. 13; v. 270; p. 341.
Peanuts. Pacific Export Lumber Co. No. 128,813; Jan. 13; v. 270; p. 342.
Peanuts. H. C. Sullivan. No. 130,422; Apr. 20; v. 273; p. 624.
Peanuts and peanut-butter. Clarke Bros. Stores. No. 133,934; Aug. 10; v. 277; p. 386.
Peanuts and topping for sundaes, &c., Salted. P. F. Beich Company. No. 131,283; May 11; v. 274; p. 399.
Peanuts, peanut-butter, coffee, tea, cocoa, Salted. G. C. Browne. No. 134,223; Aug. 24; v. 277; p. 777.
Peanuts, Salted. The Nut House. No. 135,569; Oct. 12; v. 279; p. 347.
Peanuts, Sugared. The Nut House. No. 132,762; June 29; v. 275; p. 1018.
Peanuts, Toasted. Charms Company. No. 132,641; June 29; v. 275; p. 1014.
Pearl strings, Imitation-. M. L. Ernst. No. 136,413; Nov. 2; v. 280; p. 181.
Pearls. Goldsmith Brothers Smelting and Refining Company. No. 133,975; Aug. 10; v. 277; p. 387.
Pearls. C. A. Lichtenstein. No. 135,730; Oct. 19; v. 279; p. 529.
Pearls. Manhattan Bead Chain Company. No. 137,325; Nov. 23; v. 280; p. 796.
Pearls. Monroe Block & Co. No. 134,597; Sept. 14; v. 278; p. 354.
Pearls and beads and necklaces, Synthetic. Gimbel Bros. No. 132,388; June 22; v. 275; p. 818.
Pearls and imitation pearls. W. B. Kellogg Co. No. 130,077; Apr. 6; v. 273; p. 180.
Pearls and imitation pearls. M. Wormser. No. 131,888; May 25; v. 274; p. 835.
Pearls and pearl necklaces, Imitation. Hayden W. Wheeler & Co. No. 131,882; May 25; v. 274; p. 835.
Pearls, Artificial. Bulova-Henshel Co. No. 133,919; Aug. 10; v. 277; p. 386.
Pearls, Artificial. Bulova-Henshel Company. No. 135,620; Oct. 19; v. 279; p. 526.
Pearls, collars of pearls, and jewelry adorned with pearls. Société La Perle Saskia. No. 131,841; May 25; v. 274; p. 834.
Pearls, Synthetic. Lord & Taylor. No. 132,194; June 15; v. 275; p. 618.
Pedals for bicycles, tricycles, motorcycles, &c. The Torrington Company. No. 135,375; Sept. 28; v. 278; p. 708.
Pen-points, Metallic. C. D. Roberts. Nos. 136,914–5; Nov. 9; v. 280; p. 382.
Pen-points, Metallic. C. D. Roberts. Nos. 137,855–6; Dec. 7; v. 281; p. 198.
Pen-points, Steel. The Turner & Harrison Pen Mfg. Co. No. 132,841; June 29; v. 275; p. 1020.
Pens. Perry & Company. No. 129,826; Mar. 9; v. 272; p. 366.
Pens and parts thereof, Fountain-. The Wahl Company. No. 130,432; Apr. 20; v. 273; p. 624.
Pens and pen-points, Fountain-. Edison Pen Company. No. 137,993; Dec. 14; v. 281; p. 397.
Pens, Fountain-. E. O. Baker. No. 137,939; Dec. 14; v. 281; p. 395.
Pens, Fountain-. The Conklin Pen Mfg. Co. No. 129,655; Mar. 9; v. 272; p. 361.
Pens, Fountain-. Conklin Pen Manufacturing Co. No. 138,382; Dec. 21; v. 281; p. 569.
Pens, Fountain-. The Evans Dollar Pen Co. No. 129,961; Mar. 9; v. 272; p. 371.
Pens, Fountain-. The Evans Dollar Pen Company. Nos. 129,695–6; Mar. 9; v. 272; p. 362.
Pens, Fountain-. The Evans Dollar Pen Company. No. 138,001; Dec. 14; v. 281; p. 397.
Pens, Fountain-. General Manufacturing Co. No. 128,386; Jan. 6; v. 270; p. 180.
Pens, Fountain-. A. Harris. No. 132,699; June 29; v. 275; p. 1016.
Pens, Fountain-. W. J. May & Co. No. 135,280; Sept. 28; v. 278; p. 703.
Pens, Fountain-. Moore Pen Company. No. 129,798; Mar. 9; v. 272; p. 366.
Pens, Fountain-. The Pencraft Company. No. 138,084; Dec. 14; v. 281; p. 400.
Pens, Fountain-. Salz Brothers. No. 128,317; Jan. 6; v. 270; p. 178.
Pens, Fountain-. A. A. Waterman and Company. No. 129,921; Mar. 9; v. 272; p. 369.
Pens, Fountain ruling-. Designers Instrument Company. No. 133,235; July 20; v. 276; p. 590.
Pens, lead-pencils, &c., Fountain and steel. Samuel Ward Manufacturing Company. No. 128,563; Jan. 6; v. 270; p. 185.
Pens, lead-pencils, &c., Fountain, steel, and stylographic. W. J. May & Co. No. 137,330; Nov. 23; v. 280; p. 796.
Pens, pencils, Fountain-. A. T. Cross Pencil Co. No. 129,664; Mar 9; v. 272; p. 361.
Pens, Steel. T. Hornung. No. 129,746; Mar. 9; v. 272; p. 364.
Pens, Steel. C. Howard Hunt Pen Company. No. 132,708; June 29; v. 275; p. 1016.
Pens, Steel. J. Voorsanger. No. 128,561; Jan. 6; v. 270; p. 185.
Pencil-sharpeners. American Lead Pencil Company. No. 137,930; Dec. 14; v. 281; p. 395.
Pencil-sharpeners. Eagle Pencil Company. No. 138,391; Dec. 21; v. 281; p. 570.
Pencils. Joseph Dixon Crucible Company. Nos. 131,079–87; May 4; v. 274; p. 195.
Pencils. Joseph Dixon Crucible Company. No. 136,403; Nov. 2; v. 280; p. 180.
Pencils and fountain-pens, Automatic. Crocker Pen Company. No. 137,980; Dec. 14; v. 281; p. 396.
Pencils and wrapping-paper, Lead-. Simmons Hardware Company. No. 128,518; Jan. 6; v. 270; p. 184.
Pencils, crayons, &c., Lead-. Blaisdell Pencil Company. No. 130,263; Apr. 20; v. 273; p. 619.
Pencils, erasers, and penholders, Lead-. E. Faber. No. 137,216; Nov. 23; v. 280; p. 793.
Pencils, Lead-. American Lead Pencil Company. No. 128,601; Jan. 13; v. 270; p. 335.
Pencils, Lead-. American Lead Pencil Company. Nos. 135,582–5; Oct. 19; v. 279; p. 525.
Pencils, Lead-. American Lead Pencil Company. No. 135,894; Oct. 26; v. 279; p. 715.
Pencils, Lead, copying, and mechanical. American Lead Pencil Company. No. 136,297; Nov. 2; v. 280; p. 177.
Pencils, Lead, copying and mechanical. American Lead Pencil Company. No. 137,532; Nov. 30; v. 280; p. 995.
Pencils, Magazine-. Salz Brothers. No. 128,841; Jan. 13; v. 270; p. 343.
Pencils, pencil and pen holders, Lead-. American Lead Pencil Company. Nos. 129,577–8; Mar. 9; v. 272; p. 359.
Pencils, penholders, erasers, bands. E. Faber. No. 129,700; Mar. 9; v. 272; p. 363.
Peptone. Allen & Hanburys. No. 128,593; Jan. 13; v. 270; p. 335.
Perfume, toilet water, &c. Lundborg Company. No. 131,541; May 18; v. 274; p. 606.
Perfume, toilet water, rouge, and face-powder. E. Burnham. No. 132,311; June 22; v. 275; p. 816.
Perfume, toilet water, sachet powder, &c. Richard Hudnut. No. 134,684; Sept. 14; v. 278; p. 356.
Perfumes. E. H. Baker. No. 136,312; Nov. 2; v. 280; p. 178.
Perfumes. A. Crusellas. No. 128,668; Jan. 13; v. 270; p. 337.
Perfumes. A. Crusellas. No. 129,665; Mar. 9; v. 272; p. 361.
Perfumes. Yardley & Co. No. 138,530; Dec. 28; v. 281; p. 784.
Perfumes, powders, &c. R. Ciluzzi. No. 128,957; Jan. 20; v. 270; p. 472.
Perfumes, powders, &c. Frederick Stearns & Co. No. 129,546; Feb. 24; v. 271; p. 681.
Perfumes, toilet waters, powders, &c. Denney & Denney. No. 131,297; May 11; v. 274; p. 399.
Perfumes, tooth and toilet powders, &c. The Lorenz Company. No. 131,538; May 18; v. 274; p. 605.
Perfumery. C. Davis. No. 132,661; June 29; v. 275; p. 1014.
Perfumery. McKesson & Robbins. No. 134,514; Sept. 7; v. 278; p. 160.
Perfumery, toilet water, &c. Jennings Manufacturing Company. No. 131,507; May 18; v. 274; p. 604.
Periodical. The Benton Publishing Company. No. 138,085; Dec. 14; v. 281; p. 400.
Periodical issued every four weeks, Section of a. Textile Publishing Company. No. 136,963; Nov. 9; v. 280; p. 384.

Digitized by Google

Alphabetical list of trade-marks—Continued.

Periodical issued quarterly and at shorter periods. Class Journal Company. No. 137,154; Nov. 23; v. 280; p. 791.
Periodical, Monthly. American Association of Engineers. No. 135,891; Oct. 26; v. 279; p. 715.
Periodical, Monthly. Jaburg-Miller Co. No. 136,835; Nov. 9; v. 280; p. 380.
Periodical, Monthly. The Labor American Publishing Company. No. 138,046; Dec. 14; v. 281; p. 398.
Periodical, Monthly. A. H. Lawrence. No. 135,726; Oct. 19; v. 279; p. 529.
Periodical or magazine, Weekly. The Butterick Publishing Company. No. 133,368; July 27; v. 276; p. 767.
Periodical publication, Monthly. Italian Discount and Trust Company. No. 131,784; May 25; v. 274; p. 832.
Periodical published weekly. Funk & Wagnalls Company. No. 135,245; Sept. 28; v. 278; p. 702.
Periodical, Sections of a monthly. Textile Publishing Company. No. 136,961; Nov. 9; v. 280; p. 384.
Periodical, Weekly. Class Journal Company. No. 137,153; Nov. 23; v. 280; p. 791.
Periodical, Weekly. National Federation of Federal Employees. No. 137,342; Nov. 23; v. 280; p. 796.
Periodical, Weekly. United Publishers Corporation. No. 138,147; Dec. 14; v. 281; p. 402.
Periodicals, Monthly. Oscar H. Will & Co. No. 138,370; Dec. 21; v. 281; p. 567.
Periodicals, Semi-annual. R. T. Hardy. No. 134,676; Sept. 14; v. 278; p. 356.
Perspiration-counteractor. R. W. Bridgman. No. 132,307; June 22; v. 275; p. 816.
Petroleum jelly. Grand Union Tea Co. No. 132,689; June 29; v. 275; p. 1015.
Petroleum products. Carson Petroleum Company. No. 131,719; May 25; v. 274; p. 830.
Petroleum products. J. B. Havre. No. 133,700; Aug. 3; v. 277; p. 173.
Petroleum products. Lubrite Refining Company. No. 128,435; Jan. 6; v. 270; p. 181.
Petroleum products. Ozmo Oil Refining Co. No. 136,887; Nov. 9; v. 280; p. 381.
Petroleum products. Petroleum Products Company. No. 128,483; Jan. 6; v. 270; p. 183.
Petrolatums, White. Atlantic Refining Company. No. 132,291; June 22; v. 275; p. 815.
Petticoats. J. Brener Co. No. 128,641; Jan. 13; v. 270; p. 336.
Petticoats. The Waters-Weismann Co. No. 137,518; Nov. 23; v. 280; p. 805.
Petticoats and bloomers. Brown & Singerman. No. 133,593; Aug. 3; v. 277; p. 170.
Petticoats and bloomers. M. A. Karaian. No. 130,770; May 4; v. 274; p. 186.
Petticoats and bloomers, Convertible. Greenwald Brothers. No. 136,020; Oct. 26; v. 279; p. 719.
Petticoats, dress-skirts, and underskirts. M. Reiss & Son. No. 132,498; June 22; v. 275; p. 822.
Petticoats, Women's. Elliot Petticoat Co. No. 132,669; June 29; v. 275; p. 1015.
Pharmaceutical preparation. American Laboratories. No. 128,918; Jan. 20; v. 270; p. 471.
Pharmaceutical preparation. R. Kane. No. 128,411; Jan. 6; v. 270; p. 181.
Pharmaceutical preparation. Laboratorio Chimico Farmac. V. Baldacci. Nos. 138,474–5; Dec. 28; v. 281; p. 783.
Pharmaceutical preparation for chap, sunburn, and all skin irritation. A. B. C. Co. No. 132,742; June 29; v. 275; p. 1017.
Pharmaceutical preparation used in dressing the hair and cleaning the scalp. O. P. Strayborn. No. 135,081; Sept. 21; v. 278; p. 535.
Pharmaceutical preparations. Davies, Rose & Co. No. 136,390; Nov. 2; v. 280; p. 180.
Pharmaceutical preparations. W. R. Fessler. No. 131,460; May 18; v. 274; p. 603.
Pharmaceutical preparations. The Pompeian Mfg. Co. No. 132,490; June 22; v. 275; p. 821.
Pharmaceutical preparations. A. H. Rudd. No. 131,601; May 18; v. 274; p. 608.
Pharmaceutical Preparations. R. E. Taylor. No. 137,716; Nov. 30; v. 280; p. 1001.
Phenylcinchoninic acid. Morgenstern & Company. No. 132,748; June 29; v. 275; p. 1017.
Phones, Ear-. The Gem Ear Phone Co. No. 137,235; Nov. 23; v. 280; p. 793.
Phonograph and lamp-stand, Combination. Electric Phonograph Corporation. No. 128,971; Jan. 20; v. 270; p. 472.
Phonograph-cabinets. Grimwood Bros. No. 134,671; Sept. 14; v. 278; p. 356.
Phonograph-cabinets. Pianissimo Player Action Co. No. 130,096; Apr. 6; v. 273; p. 181.
Phonograph-diaphragms. Allen Mica Co. No. 135,189; Sept. 28; v. 278; p. 701.
Phonograph-meters. Splitdorf Electrical Company. No. 135,816; Oct. 19; v. 279; p. 532.
Phonograph-motors, (Mechanical.) Krasberg Engineering and Manufacturing Corporation. No. 138,281; Dec. 21; v. 281; p. 565.
Phonograph-mountings. J. E. Gibson. No 134,955; Sept. 21; v. 278; p. 531.
Phonograph-needles. The Torrington Company. No. 135,187; Sept. 21; v. 278; p. 540.
Phonograph-record cleaner and polisher. N. C. Davis. No. 132,348; June 22; v. 275; p. 817.
Phonograph-records. Baldwin Company. No. 129,601; Mar. 9; v. 272; p. 360.
Phonograph-records. L. Bernstein. No. 137,554; Nov. 30; v. 280; p. 996.
Phonograph-records. The Brunswick-Balke-Collender Company. No. 132,631; June 29; v. 275; p. 1014.
Phonograph-records. Emerson Phonograph Company. No. 130,063; Apr. 6; v. 273; p. 180.
Phonograph-records. Emerson Phonograph Company. No. 131,902; May 25; v. 274; p. 836.
Phonograph reproducers. M. McTighe Company. No. 138,056; Dec. 14; v. 281; p. 399.
Phonographs. American Cabinet Manufacturing Corporation. No. 129,574; Mar. 9; v. 272; p. 359.
Phonographs. American Cabinet Manufacturing Corporation. No. 136,294; Nov. 2; v. 280; p. 177.
Phonographs. The Art Cabinet Company. Nos. 129,599–600; Mar. 9; v. 272; p. 360.
Phonographs. O. Bachman. No. 132,619; June 29; v. 275; p. 1013.
Phonographs. The Baldwin Company. No. 133,903; Aug. 10; v. 277; p. 389.
Phonographs. Deutsch Brothers. Nos. 129,675–6; Mar. 9; v. 272; p. 363.
Phonographs. Thomas A. Edison, Incorporated. No. 138,392; Dec. 21; v. 281; p. 570.
Phonographs. Charles H. Elting & Company. No. 135,661; Oct. 19; v. 279; p. 527.
Phonographs. Federal Electric Company. No. 137,219; Nov. 23; v. 280; p. 793.
Phonographs, &c. Fulton Bros. Mfg. Co. No. 128,978; Jan. 20; v. 270; p. 473.
Phonographs. General Manufacturing Corporation. No. 136,007; Oct. 26; v. 279; p. 719.
Phonographs. M. Goldman. No. 138,006; Dec. 14; v. 281; p. 397.
Phonographs. Grand Rapids School Equipment Co. No. 134,664; Sept. 14; v. 278; p. 356.
Phonographs. Huss Bros. Phonograph & Piano Co. No. 131,778; May 25; v. 274; p. 832.
Phonographs. Kesner and Jerlaw. No. 129,762; Mar. 9; v. 272; p. 364.
Phonographs. N. Lafrong. No. 137,818; Dec. 7; v. 281; p. 197.
Phonographs. A. A. Manghisi. No. 134,732; Sept. 14; v. 278; p. 358.
Phonographs. The Mastertone Phonograph Company. Nos. 136,862–3; Nov. 9; v. 280; p. 381.
Phonographs. Music Table Company. No. 130,837; May 4; v. 274; p. 188.
Phonographs. Nightingale Mfg. Co. No. 129,811; Mar. 9; v. 272; p. 366.
Phonographs. Plymouth Phonograph Co. No. 134,765; Sept. 14; v. 278; p. 359.
Phonographs. Robinola Phonograph Co. No. 137,388; Nov. 23; v. 280; p. 498.
Phonographs. The Starr Piano Company. No. 135,876; Oct. 19; v. 279; p. 536.
Phonographs. United Phonograph Corporation. No. 132,843; June 29; v. 275; p. 1020.
Phonographs. Voice Talking Machine Co. No. 131,871; May 25; v. 274; p. 835.
Phonographs. Charles William Stores, Inc. No. 129,935; Mar. 9; v. 272; p. 370.
Phonographs and cabinets. Milwaukee Talking Machine Manufacturing Co. No. 130,091; Apr. 6; v. 273; p. 181.
Phonographs and phonograph-cabinets. The Western News Company. No. 135,161; Sept. 21; v. 278; p. 537.
Phonographs and phonograph-records. The Acme Phonograph Company of Kansas City. No. 132,603; June 29; v. 275; p. 1013.
Phonographs and records. T. H. De Pew. No. 130,059; Apr. 6; v. 273; p. 180.
Phonographs and records, record-albums, reproducers, and needles. The Wisconsin Chair Company. No. 136,263; Oct. 26; v. 279; p. 726.
Phonographs and sound-boxes and tone-arms for same. Oro-Tone Co. No. 131,568; May 18; v. 274; p. 606.
Phonographs and talking-machines. A. Mannello. No. 132,736; June 29; v. 275; p. 1017.
Phonographs and talking-machines. F. S. Sammel. No. 130,402; Apr. 20; v. 273; p. 623.
Phonographs, graphophones, records, needles, and record-albums, &c. R. H. Macy & Co. No. 135,482; Oct. 12; v. 279; p. 344.
Phonographs, Needle-holding attachments for the sound-boxes of. The Jemtone Co. No. 135,712; Oct. 19; v. 279; p. 529.
Phonographs, phonograph-records, sound-boxes, and needles. The Belcanto Co. Nos. 132,091–2; June 15; v. 275; p. 615.
Phonographs, phonograph-records, sound-boxes, and needles. L. Rommel. No. 132,234; June 15; v. 275; p. 703.
Phonographs, Portable. C. E. Dodson. No. 132,666; June 29; v. 275; p. 1015.
Phonographs, record-needles, &c. Polonia Phonograph Co. No. 130,868; May 4; v. 274; p. 189.

Digitized by Google

Phonographs, records, and needles. Beacon Phonograph Company. No. 134,592; Sept. 14; v. 278; p. 354.
Phonographs, records, and needles. Raymond Phonograph Co. No. 129,055; Jan. 20; v. 270; p. 475.
Phonographs, talking-machines, &c. Kirkhart & Berry. No. 129,763; Mar. 9; v. 272; p. 364.
Phonographs, talking-machines, pianos. J. D. Kilgore. No. 131,786; May 25; v. 274; p. 882.
Phonographs, talking-machines, sound-boxes and needles therefor. R. G. Mitchell. No. 132,744; June 29; v. 275; p. 1017.
Phonographic machines. Brenard Manufacturing Company. No. 136,334; Nov. 2; v. 280; p. 178.
Phonographic needles. W. H. Bagshaw Co. No. 136,748; Nov. 9; v. 280; p. 377.
Photographic and developing papers. Haloid Company. No. 131,480; May 18; v. 274; p. 603.
Photographic chemicals. G. L. Barrows. Nos. 129,424–6; Feb. 24; v. 271; p. 677.
Photographic chemicals and anilin dyes. G. L. Barrows. No. 132,624; June 29; v. 275; p. 1013.
Photographic developer. The Wilbur White Chemical Co. No. 135,166; Sept. 21; v. 278; p. 537.
Photographic developers. Lowenstein Radio Company. No. 128,768; Jan. 13; v. 270; p. 340.
Photographic developers. Society of Chemical Industry in Basle. No. 135,075; Sept. 21; v. 278; p. 535.
Photographic developing compound. R. Fritsche. No. 138,453; Dec. 28; v. 281; p. 782.
Photographic dry plates and films. G. Cramer Dry Plate Company. No. 134,312; Aug. 24; v. 277; p. 781.
Photographic film. Eastman-Kodak Company. No. 132,364; June 22; v. 275; p. 817.
Photographic film. Eastman Kodak Company. No. 133,125; July 13; v. 276; p. 401.
Photographic prints. The Z. T. Briggs Photographic Supply Co. No. 137,129; Nov. 23; v. 280; p. 790.
Photographic prints. Howland & Dewey Company. No. 133,434; July 27; v. 276; p. 769.
Photographic reproductions and prints. Cossitt and Company. No. 137,171; Nov. 23; v. 280; p. 791.
Photographic retouching-screens. I. Boysen. No. 133,589; Aug. 3; v. 277; p. 170.
Photographic shutters and lenses. Ilex Optical Company. No. 129,167; Jan. 27; v. 270; p. 614.
Photographs and reprints thereof. New York Times Company. Nos. 133,475–6; July 27; v. 276; p. 770.
Photographs, Portrait-. E. Blum. No. 133,359; July 27; v. 276; p. 767.
Physic for children. J. L. Greenbaum. No. 134,668; Sept. 14; v. 278; p. 356.
Piano actions, Player-. Scott Player Action Co. No. 138,531; Dec. 28; v. 281; p. 784.
Piano and automobile polish. Emil Wiederhold & Bro. No. 133,342; July 20; v. 276; p. 593.
Piano and furniture polish. H. Vincent. No. 136,683; Nov. 2; v. 280; p. 189.
Piano, furniture, woodwork, &c., polish. H. H. Fritch. No. 137 608; Nov. 30; v. 280; p. 997.
Piano-pedals. Lyon & Healy. No. 136,082; Oct. 26; v. 279; p. 721.
Piano-players. Vacuum-creating apparatus for. Piano Motors Corporation. No. 133,779; Aug. 3; v. 277; p. 176.
Piano, &c., polish. L. M. Thornton. No. 134,544; Sept. 7; v. 278; p. 167.
Pianos. American Piano Company. No. 131,399; May 18; v. 274; p. 601.
Pianos. Christman Piano Co. No. 136,718; Nov. 2; v. 280; p. 191.
Pianos. The Chute & Butler Co. No. 135,210; Sept. 28; v. 278; p. 701.
Pianos. C. C. and E. E. Conway and T. P. Brown, trustees. No. 134,919–23; Sept. 21; v. 278; p. 530.
Pianos. C. C. and E. E. Conway and T. P. Brown, trustees. Nos. 135,213–15; Sept. 28; v. 278; p. 701.
Pianos. C. C. and E. E. Conway and T. P. Brown, trustees. Nos. 135,959–61; Oct. 26; v. 279; p. 717.
Pianos. Emerson Piano Company. No. 137,214; Nov. 23; v. 280; p. 793.
Pianos. Lyon & Healy. No. 136,081; Oct. 26; v. 279; p. 721.
Pianos. Paul G. Mehlin & Sons. No. 134,738; Sept. 14; v. 278; p. 358.
Pianos. B. Shoninger Co. No. 129,968; Mar. 9; v. 272; p. 371.
Pianos. B. Shoninger Co. No. 132,807; June 29; v. 275; p. 1019.
Pianos. B. Shoninger Co. No. 134,088; Aug. 10; v. 277; p. 391.
Pianos. Horace Waters & Co. No. 134,866; Sept. 14; v. 278; p. 363.
Pianos and music-sheets therefor, talking-machines, phonographs, Player-. Crippen Company, The. No. 132,342; June 22; v. 275; p. 817.
Pianos and piano-players. H. C. Bay Company. Nos. 134,589–91; Sept. 14; v. 278; pp. 353–4.
Pianos and player-pianos. R. S. Howard Company. No. 129,004; Jan. 20; v. 270; p. 474.
Pianos and piano-players, Self-playing. M. Welte & Sons. No. 137,745; Nov. 30; v. 280; p. 1002.
Pianos, Electrically-operated vacuum-creating apparatus for player-. Piano Motors Corporation. No. 136,582; Nov. 2; v. 280; p. 186.
Pianos, &c., Note-sheets for player-. Rythmodik Music Corp. No. 129,065; Jan. 20; v. 270; p. 475.
Pianos, organs, phonographs, player-pianos. A. J. Crafts Piano Co. No. 135,645; Oct. 19; v. 279; p. 527.
Pianos, phonographs, and talking-machines. H. J. Sohmer. No. 137,464; Nov. 23; v. 280; p. 800.
Pianos, piano-players, &c. M. Welte & Sons. No. 137,746; Nov. 30; v. 280; p. 1002.
Pianos, piano-players, and organs. Story & Clark Piano Company. Nos. 130,119–20; Apr. 6; v. 273; p. 181.
Pianos, Player-. Herzfeld-Phillipson Company. No. 135,258; Sept. 28; v. 278; p. 703.
Pianos, Player-. People's Outfitting Company. No. 136,578; Nov. 2; v. 280; p. 186.
Pianos, player-pianos, and parts thereof. The Cable Company. No. 135,406; Oct. 12; v. 279; p. 342.
Pianos, player-pianos, and piano-players. The Baldwin Company. No. 134,584; Sept. 14; v. 278; p. 352.
Pianos, player-pianos, and player-piano actions. Schumann Piano Company. No. 135,875; Oct. 19; v. 279; p. 536.
Pianos, player-pianos, organs, phonographs, and phonograph-needles. Chipman Limited. No. 132,643; June 29; v. 275; p. 1014.
Pianos, Vacuum-creating apparatus for player-. H. W. Yeager & Co. No. 135,171; Sept. 21; v. 278; p. 538.
Pianofortes, grand and upright pianos, and piano-players. J. & C. Fischer. No. 134,647; Sept. 14; v. 278; p. 355.
Pickling compound for curing meats. H. Ehrlich & Sons Mfg. Co. No. 128,680; Jan. 13; v. 270; p. 338.
Picture apparatus and accessories, Motion-. United Theatre Equipment Corporation. No. 133,194; July 13; v. 276; p. 404.
Picture-films. C. S. Hart Film Company. No. 128,722; Jan. 13; v. 270; p. 339.
Picture-films. Universal Film Manufacturing Company. No. 128,888; Jan. 13; v. 270; p. 344.
Picture films and still pictures, Motion-. Euclid Film Company. No. 135,435; Oct. 12; v. 279; p. 343.
Picture films, Motion-. Community Motion Picture Bureau. No. 131,434; May 18; v. 274; p. 602.
Picture films, Motion-. Dramafilms. No. 130,486; Apr. 27; v. 273; p. 802.
Picture films, Motion-. International Film Service Co. No. 133,707; Aug. 3; v. 277; p. 174.
Picture films, Motion-. Realart Pictures Corporation. No. 130,391; Apr. 20; v. 273; p. 623.
Picture films, Motion-. Republic Distributing Corporation. No. 133,793; Aug. 3; v. 277; p. 176.
Picture films, Motion-. Screen Letter Box. No. 128,848; Jan. 13; v. 270; p. 343.
Picture films, Motion-. Select Pictures Corporation. No. 136,729; Nov. 2; v. 280; p. 192.
Picture films, Motion-. Selznick Pictures Corporation. No. 133,319; July 20; v. 276; p. 592.
Picture films, Motion-. Simlec Film Company. No. 134,282; Aug. 24; v. 277; p. 779.
Picture films, Moving-. The Bray Pictures Corporation. No. 133,218; July 20; v. 276; p. 589.
Picture films, Moving-. The Bray Pictures Corporation. No. 134,221; Aug. 24; v. 277; p. 777.
Picture films, Moving-. Cosmopolitan Film Company. No. 133,622; Aug. 3; v. 277; p. 171.
Picture films, Moving-. L. E. Davidson. No. 133,233; July 20; v. 276; p. 590.
Picture films, Moving-. Funk & Wagnalls Company. No. 135,244; Sept. 28; v. 278; p. 702.
Picture films, Moving-. Funk & Wagnalls. No. 135,246; Sept. 28; v. 278; p. 702.
Picture films, Moving-. S. H. Hadley. No. 133,137; July 13; v. 276; p. 402.
Picture films, Moving-. C. E. Hallgren. No. 133,138; July 13; v. 276; p. 402.
Picture films, Moving-. Hallmark Pictures Corporation. No. 131,317; May 11; v. 274; p. 400.
Picture films, Moving-. G. J. Marfleet. No. 130,826; May 4; v. 274; p. 188.
Picture films, Moving-. Screencraft pictures. No. 130,910; May 4; v. 274; p. 190.
Picture films, Moving-. Vitagraph Company of America. No. 131,383; May 11; v. 274; p. 402.
Picture films showing animated drawings, Moving-. The Bray Pictures Corporation. No. 133,217; July 20; v. 276; p. 590.
Picture films, still and animated pictures, &c., Motion-. Post Pictures Corporation. No. 138,089; Dec. 14; v. 281; p. 400.
Picture machines, &c., Projecting equipment for motion-. Nicholas Power Company. No. 128,804; Jan. 13; v. 270; p. 341.
Picture or sheet mounting devices. A. W. Engel. No. 132,673; June 29; v. 275; p. 1015.
Picture-producing apparatus, Motion-. Bell & Howell Co. No. 129,124; Jan. 27; v. 270; p. 613.
Picture-producing apparatus, Motion-. Bell & Howell Co. No. 130,637; May 4; v. 274; p. 182.
Picture screens, Moving-. The Ludcke Picture Screen Co. No. 137,822; Dec. 7; v. 281; p. 197.

Digitized by Google

Alphabetical list of trade-marks—Continued.

Picture sundries, Motion-. Movette, Incorporated. No. 133,755; Aug. 3; v. 277; p. 175.
Picture-viewing machines, Coin-operated moving-. J. F. Meyer. No. 133,746; Aug. 3; v. 277; p. 175.
Pictures. N. Kahn-Lang. Nos. 138,269–70; Dec. 21; v. 281; p. 564.
Pictures, Motion-. Novagraph Film Corporation. No. 137,353; Nov. 23; v. 280; p. 797.
Pictures to be projected upon a screen, &c. Post Pictures Corporation. No. 132,491; June 22; v. 275; p. 822.
Pie-fillings, puddings, and jellies. Good Luck Food Co. No. 135,451; Oct. 12; v. 279; p. 343.
Piece goods. Haas Brothers Fabrics' Corporation. Nos. 131,129–30; May 4; v. 274; p. 197.
Piece goods. Lesher, Whitman & Co. No. 129,966; Mar. 9; v. 272; p. 371.
Piece goods. Charles E. Lindh, Inc. No. 134,510; Sept. 7; v. 278; p. 160.
Piece goods. J. A. Migel, Inc. No. 133,008; July 6; v. 276; p. 203.
Piece goods. Renfrew Mfg. Co. No. 133,499; July 27; v. 276; p. 771.
Piece goods. Warner-Godfrey Co. No. 128,565; Jan. 6; v. 270; p. 185.
Piece goods. Weissenbach & Kay. No. 129,923; Mar. 9; v. 272; p. 369.
Piece goods, ribbons, laces, &c. B. Frankfeld and Co. No. 129,457; Feb. 24; v. 271; p. 678.
Pig-lead, spelter, sheet-zinc, and slab-zinc. The Eagle-Picher Lead Co. No. 137,207; Nov. 23; v. 280; p. 792.
Pigments and materials used in the manufacture of paints. Katzenbach & Bullock Co. No. 138,037; Dec. 14; v. 281; p. 398.
Pile-fabric piece goods. The Hind & Harrison Plush Co. No. 134,968; Sept. 21; v. 278; p. 532.
Pile fabrics of all kinds in the piece. Sidney Blumenthal & Co. No. 134,304; Aug. 24; v. 277; p. 781.
Pillow-cases. Naumkeag Steam Cotton Co. No. 129,804; Mar. 9; v. 272; p. 366.
Pillow-cases. Naumkeag Steam Cotton Co. No. 131,199; May 4; v. 274; p. 199.
Pillows, Feather. Star Bedding Company. No. 128,528; Jan. 6; v. 270; p. 184.
Pills. N. B. Bartz. No. 137,113; Nov. 23; v. 280; p. 790.
Pills, Laxative. C. J. Countie. No. 129,662; Mar. 9; v. 272; p. 361.
Pills, Liver-. L. F. Birdsong. No. 136,328; Nov. 2; v. 280; p. 178.
Pills, Liver-. I. H. Taylor. No. 133,846; Aug. 3; v. 277; p. 178.
Pills, tablets, balsam, &c. M. S. Soifer. No. 128,859; Jan. 13; v. 270; p. 343.
Pimentos morrones. Royal Packing Co. No. 137,857; Dec. 7; v. 281; p. 198.
Pins, snap-fasteners, &c. Marshall Field & Company. No. 130,358; Apr. 20; v. 273; p. 622.
Pipe-bits, cigar and cigarette holders, Hard-rubber. American Hard Rubber Company. No. 134,877; Sept. 21; v. 278; p. 529.
Pipe-couplings, &c., Metal. National Tube Company. No. 131,562; May 18; v. 274; p. 606.
Pipe-covers. The Waterbury Jewel Company. No. 130,987; May 4; v. 274; p. 192.
Pipe-fittings and hardware. The National Supply Company. No. 136,551; Nov. 2; v. 280; p. 185.
Pipe-fittings, Cast-iron. Hercules Foundries. Nos. 136,460–2; Nov. 2; v. 280; p. 182.
Pipe fittings, valves, &c. M H-Aterite Company. No. 129,122; Jan. 27; v. 270; p. 613.
Pipe-fittings, valves, nozzles, cocks, &c. The Lukenheimer Company. No. 129,181; Jan. 27; v. 270; p. 615.
Pipe joints or couplings. Standard Union Company. No. 131,629; May 18; v. 274; p. 608.
Pipe, railway-spikes, &c., Welded and riveted. Koppel Industrial Car & Equipment Company. No. 130,782; May 4; v. 274; p. 186.
Pipe-threading machines. Toledo Pipe Threading Machine Co. No. 138,205; Dec. 14; v. 281; p. 407.
Pipe, wire, and nails, Iron and steel. The Youngstown Sheet & Tube Company. No. 134,868; Sept. 14; v. 278; p. 363.
Pipe-wrenches. Walworth Manufacturing Company. No. 133,196; July 13; v. 276; v. 404.
Pipes and splicings, Wooden. D. Eichenfeld. No. 133,239; July 20; v. 276; p. 590.
Pipes, cigar and cigarette holders, Smoker's. Kaufmann Bros. & Bondy. No. 134,986; Sept. 21; v. 278; p. 532.
Pipes, cigar, and cigarette holders, Tobacco-. Kapp & Peterson. No. 137,807; Dec. 7; v. 281; p. 196.
Pipes, pipe-couplings, reducers, unions, and elbows, Metal. T. R. E. Miller. No. 134,185; Aug. 17; v. 277; p. 582.
Pipes, Pitch-. National Musical String Company. No. 131,806; May 25; v. 274; p. 833.
Pipes, Tobacco-. Societe Anonym La Bruyere. No. 130,925; May 4; v. 274; p. 191.
Pipes, traps, and drains, Composition for opening clogged. Chamberlain-Haber Chemical Co. No. 132,639; June 29; v. 275; p. 1014.
Piston-ring compressors. Victory Ring Compressor Company. No. 136,240; Oct. 26; v. 279; p. 726.
Piston-rings. Adjustable Piston Mfg. Company. No. 129,571; Mar. 9; v. 272; p. 359.
Piston-rings. American Metal Parts Corporation. No. 137,925; Dec. 14; v. 281; p. 395.
Piston-rings. A. B. Chance. No. 133,373; July 27; v. 276; p. 767.
Piston-rings. Gill Manufacturing Company. No. 137,613; Nov. 30; v. 280; p 997.
Piston-rings. Hendee Manufacturing Co. No. 129,745; Mar. 9; v. 272; p. 364.
Piston-rings. No-Leak-O Piston Ring Company. No. 138,549; Dec. 28; v. 281; p. 786.
Piston-rings. V. Plex Piston Ring Company. No. 133,337; July 20; v. 276; p. 593.
Piston-rings. Steam Tractor, Auto & Mfg. Company. No. 129,888; Mar. 9; v. 272; p. 368.
Piston-rings. J. H. Wasserman. No. 134,557; Sept. 7; v. 278; p. 161.
Piston-rings. E. Wilson. No. 133,875; Aug. 3; v. 277; p. 179.
Piston-rings, Engine. The Reus Bros. Co. No. 136,600; Nov. 2; v. 280; p. 187.
Pitch for use in breweries. Deutsche Conservierungsgesellschaft mit beschrankter Haftung. No. 132,126; June 15; v. 275; p. 616.
Placket and snap fasteners, glove-buttons, clasps. Waldes & Co. Nos. 130,971–4; May 4; v. 274; p. 192.
Placket-fasteners, glove-fasteners, hand sewing-needles, &c. Waldes & Co. Nos. 134,554–5; Sept. 7; v. 278; p. 161.
Placket, glove, and snap fasteners, buttons, clasps. Waldes & Co. No. 130,435; Apr. 20; v. 273; p. 624.
Placket, glove, and snap fasteners, buttons, clasps. Waldes & Co. No. 131,261; May 4; v. 274; p. 20.
Placket, glove, and snap fasteners, buttons, clasps. Waldes & Co. No. 132,853; June 29; v. 275; p. 1020.
Placket, glove, and snap fasteners, buttons, clasps. Waldes & Co. No. 133,862; Aug. 3; v. 277; p. 178.
Planchette-boards. L. White. No. 135,557; Oct. 12; v. 279; p. 346.
Planchette-boards. T. H. White. No. 129,100; Jan. 20; v. 270; p. 477.
Planchette-boards. Unique Novelty Co. No. 130,955; May 4; v. 274; p. 191.
Planes, Carpenters'. Stanley Rule & Level Company. No. 131,371; May 11; v. 274; p. 402.
Plans and specifications. The H. K. Ferguson Company. No. 135,991; Oct. 26; v. 279; p. 718.
Plants, Rose-. The Conard & Jones Company. No. 132,915; July 6; v. 276; p. 200.
Plaster of Paris for dentists' and surgeons' use in laboratory work, Non-adhesive. Newark Plaster Company. No. 134,751; Sept. 14; v. 278; p. 358.
Plasters for corns, &c. M. P. Boehme. No. 129,430; Feb. 24; v. 271; p. 677.
Plasters, Medicated. Bauer & Black. No. 129,607; Mar. 9; v. 272; p. 360.
Plasters, Medicated. Bauer & Black. No. 134,890; Sept. 21; v. 278; p. 529.
Plastic composition for modeling. E. Reizenstein. No. 130,393; Apr. 20; v. 273; p. 623.
Plastic composition for surfacing kitchen, drain-boards, floors, &c. V. A. Petersen. No. 136,151; Oct. 26; v. 279; p. 723.
Plastic composition for the manufacture of models for artificial teeth. B. M. Goldberg. No. 135,450; Oct. 12; v. 279; p. 343.
Platens, Material to be made into protective coverings for certain named. C. I. Hendricks. No. 136,454; Nov. 2; v. 280; p. 182.
Platens, Preparation to preserve and renew. Deter-Sol Sales Company. No. 132,357; June 22; v. 275; p. 817.
Platinum, Alloyed. E. R. Nebeling No. 130,844; May 4; v. 274; p. 188.
Play-suits, men's overalls and overshirts. Everwear Mfg. Co. No. 128,690; Jan. 13; v. 270; p. 338.
Playground and gymnasium apparatus. Fred Medart Mfg. Co. No. 133,464; July 27; v. 276; p. 770.
Plows. E. E. Sowell. No. 133,826; Aug. 3; v. 277; p. 177.
Plows and cane-mills and separate parts for same. Chattanooga Plow Company. No. 135,411; Oct. 12; v. 279; p. 342.
Plows and parts thereof. International Harvester Company. No. 135,710; Oct. 19; v. 279; p. 529.
Plows and parts thereof. Lynchburg Foundry Company. 130,802; May 4; v. 274; p. 187.
Plows, cultivators, &c. La Crosse Plow Company. No. 138,047; Dec. 14; v. 281; p. 398.
Plows, Garden-. Leader Plow Co. No. 128,425; Jan. 6; v. 270; p. 181.
Plows, markers, harrows, &c. W. Eddy Plow Co. No. 135,978; Oct. 26; v. 279; p. 718.
Plug-caps. Convertible. Harvey Hubbell, Inc. Nos. 138,020–1; Dec. 14; v. 281; p. 398.
Plumbers' and steamfitters' supplies. R. J. Shannon. No. 130,574; Apr. 27; v. 273; p. 805.
Plumbers' supplies. Pacific Sanitary Manufacturing Company. No. 135,505; Oct. 12; v. 279; p. 345.
Plumbers' supplies of earthenware. The Trenton Potteries Company. No. 132,058; June 8; v. 275; p. 416.
Plumbing and steam-fitting supplies, &c. Aktiebolaget Ingeniörsfirman G. A. Lindstedt & Co. No. 136,286; Nov. 2; v. 280; p. 177.

Digitized by Google

Plumbing and steam-fitting supplies. International Couplers Company. No. 133,148; July 13; v. 276; p. 402.
Plumbing and steam-fitting supplies. Michigan Lubricator Company. No. 133,747; Aug. 3; v. 277; p. 175.
Plumbing-fixtures. Walworth Manufacturing Co. No. 137,408; Nov. 23; v. 280; p. 798.
Plumbing fixtures and supplies. Compound Injector & Specialty Co. No. 130,479; Apr. 27; v. 273; p. 802.
Plumbing fixtures and supplies. The McRae & Roberts Co. No. 137,829; Dec. 7; v. 281; p. 197.
Plumbing supplies. The Monument Pottery Co. No. 133,753; Aug. 3; v. 277; p. 175.
Plumbing supplies and bath-room fixtures. Sanitary Specialties Co. No. 136,278; Oct. 26; v. 279; p. 726.
Plums, Fresh. A. R. Carney. No. 133,928; Aug. 10; v. 277; p. 386.
Plush piece goods. Philadelphia Pile Fabric Mills. No. 132,226; June 15; v. 275; p. 619.
Pocket-books. Beach Leather Company. No. 130,041; Apr. 6; v. 273; p. 179.
Pocket-books. Freund Bros. & Company. No. 128,383; Jan. 6; v. 270; p. 180.
Pocket-books, bill-cases, traveling-bags, and purses. Cohn & Rosenberger. No. 137,160; Nov. 23; v. 280; p. 791.
Pockets for garments. J. C. Darst. No. 133,398; July 27; v. 276; p. 768.
Poison foods. F. T. Kobayashi. No. 130,080; Apr. 6; v. 273; p. 180.
Poison for animals. Northwestern Hide & Fur Co. No. 136,127; Oct. 26; v. 279; p. 722.
Poles, Wooden telegraph, &c. W. H. Gilbert. No. 132,386; June 22; v. 275; p. 818.
Polish, cleaning, and preserving preparations for stoves. Russia Cement Company. No. 134,787; Sept. 14; v. 278; p. 359.
Polish for floors, furniture, woodwork, and automobile-bodies. The Standard Products Co. No. 133,325; July 20; v. 276; p. 592.
Polish for leather goods, such as shoes, suitcases. Barton Belt Company. No. 131,931; June 1; v. 275; p. 199.
Polish for piano, furniture, and other painted or varnished surfaces, Liquid. J. A. Selby. No. 133,817; Aug. 3; v. 277; p. 177.
Polish for pianos, furniture, talking-machines, &c. J. Strauss. No. 132,550; June 22; v. 275; p. 823.
Polish for varnished and enameled surfaces. Cullen-Stevens Co. No. 132,346; June 22; v. 275; p. 817.
Polish for varnished surfaces. H. E. Medley. No 136,866; Nov. 9; v. 280; p. 381.
Polish for varnished, waxed, &c., surfaces. The Varnitone Manufacturing Company. No. 137,892; Dec. 7; v. 281; p. 199.
Polish, Furniture-. M. A. Johnson. No. 137,284; Nov. 23; v. 280; p. 795.
Polish, Furniture-. La Parfait Mfg. Co. No. 137,302; Nov. 23; v. 280; p. 795.
Polish, Metal-. C. E. Calbreath. No. 134,898; Sept. 21; v. 278; p. 530.
Polish, Stove-. G. W. Graham. No. 136,444; Nov. 2; v. 280; p. 182.
Polish used on painted and varnished surfaces. Mrs. L. P. Marx. No. 138,062; Dec. 14; v. 281; p. 399.
Polishes for automobiles, &c. R. F. Carr. No. 138,226; Dec. 21; v. 281; p. 563.
Polishes for automobiles, &c. C. B. Whitney. No. 131,883; May 25; v. 274; p. 835.
Polishes for metal, leather, &c. The Chiswick Polish Company. No. 137,972; Dec. 14; v. 281; p. 396.
Polishing and buffing wheels, Canvas cover to be used with. S. Newman. No. 137,465; Nov. 23; v. 280; p 800.
Polishing and cleaning liquid. L. A. Block. No. 134,596; Sept. 14; v. 278; p. 354.
Polishing and cleansing compound. F. B. Webster. No. 129,097; Jan. 20; v. 270; p. 476.
Polishing and wiping cloth. Regal Polishing Cloth Co. No. 133,788; Aug. 3; v. 277; p. 176.
Polishing compositions for silver, glass, &c. The Clark Products Co. No. 132,646; June 29; v. 275; p. 1014.
Polishing material. P. Rosenzweig. No. 138,504; Dec. 28; v. 281; p. 784.
Polishing metal and glass, Preparation for. F. E. Andrews. No. 133,897; Aug. 10; v. 277; p. 385.
Polishing painted or enameled surfaces, Liquid compound for. L. A. Sanders. No. 138,105; Dec. 14; v. 281; p. 400.
Polishing preparation for automobiles, carriages, coaches, floors, &c. Hawk-Eye Mfg. Company. No. 134,964; Sept. 21; v. 278; p. 532.
Polishing-wheels. Felt. Eastern Felt Company. No. 128,367; Jan. 6; v. 270; p. 179.
Pomade for the scalp and hair. Jiffie-Straight Company. No. 132,422; June 22; v. 275; p. 819.
Pomade, salve, or medicinal compound for the nails. Lustr-Ite Corporation. No. 129,773; Mar. 9; v. 272; p. 365.
Popcorn confections. American Pop Corn Works. No. 131,020; May 4; v. 274; p. 193.
Popcorn, shelled and unpopped. E. G. Pierce. No. 132,781; June 29; v. 275; p. 1018.
Porcelain-enamel-coated metal sheets, plates, and angle-pieces. Minnesota Stove Co. No 131,191; May 4; v. 274; p. 199.
Pork and beans. Kingan & Company, Limited. No. 136,842; Nov. 9; v. 280; p. 380.
Portraits, sketches, and drawings. B. H. Scotford. Nos. 129,869–70; Mar. 9; v. 272; p. 368.
Posters, display-cards, &c. Tullograph Art Company. No. 138,142; Dec. 14; v. 281; p. 401.
Potato chips. Sterling Potato Brittle Co. No. 128,530; Jan. 6; v. 270; p. 184.
Potato chips, doughnuts, zwieback. G. H. Becker. No. 134,219; Aug. 24; v. 277; p. 777.
Potatoes. Wolter Bros. No. 136,709; Nov. 2; v. 280; p. 190.
Potatoes, Fresh. L. W. Smith. No. 130,924; May 4; v. 274; p. 191.
Potatoes, Partially cooked and prepared. Condensed Food Company. No. 132,652; June 29; v. 275; p. 1014.
Potatoes, Raw. C. S. Timmons. No. 130,945; May 4; v. 274; p. 191.
Potatoes, Sweet. Mutual Service Corporation. No. 134,417; Aug. 31; v. 277; p. 973.
Pottery, Table-. Knowles, Taylor & Knowles Company. No. 130,079; Apr. 6; v. 273; p. 180.
Pouches, Tobacco-. Pearson Products Corporation. No. 135,037; Sept. 21; v. 278; p. 534.
Poultry and setting-eggs, Live. J. W. Zimmerer. No. 131,276; May 4; v. 274; p. 201.
Poultry, butter, &c. Columbia Produce Co. No. 128,856; Jan. 13; v. 270; p. 337.
Poultry, Dressed. National Poultry Co. No. 130,368; Apr. 20; v. 273; p. 622.
Poultry, Dressed. Thorndike and Gerrish Company. No. 128,542; Jan. 6; v. 270; p. 185.
Poultry-powder, &c. National Blue Ribbon Remedy Company. No. 128,800; Jan. 13; v. 270; p. 341.
Powder. E. I. du Pont de Nemours Powder Company. No. 129,684; Mar. 9; v. 272; p. 362.
Powder and cream, toilet water, &c., Complexion. Depree Chemical Company. No. 132,356; June 22; v. 275; p. 817.
Powder and disinfectants, Lice-. J. S. Fleming. No. 132,678; June 29; v. 275; p. 1015.
Powder and hair preparation, Toilet. Coffin Redington Co. No. 129,440; Feb. 24; v. 271; p. 678.
Powder and paste, Tooth. S. Burns. No. 136,341; Nov. 2; v. 280; p. 179.
Powder and rouge, Toilet. S. S. Booty. No. 138,344; Dec. 21; v. 281; p. 567.
Powder, Baby-. Chas. Ammen Co. No. 132,286; June 22; v. 275; p. 815.
Powder-blowers. The De Vilbiss Manufacturing Company. No. 130,699; May 4; v. 274; p. 184.
Powder, Cake face-. F. N. Lewis. No. 131,532; May 18; v. 274; p. 605.
Powder, cold-cream, hair-wash, &c., Face-. Armand Company. No. 129,418; Feb. 24; v. 271; p. 677.
Powder, cold-cream, hair-wash, &c., Face-. The Armand Company. No. 129,597; Mar. 9; v. 272; p. 359.
Powder, Explosive. M. A. Regine. No. 136,168; Oct. 26; v. 279; p. 723.
Powder, Face-. H. Lynch. No. 138,481; Dec. 28; v. 281; p. 783.
Powder for cleaning white shoes and clothing. J. A. Selby. No. 133,816. Aug. 3; v. 277; p. 177.
Powder for false teeth. G. L. Wernet. No. 133,088; July 6; v. 276; p. 205.
Powder for welding aluminum, Flux-. Davis-Bournonville Company. No. 137,582; Nov. 30; v. 280; p. 996.
Powder-puff. L. R. Rose. No. 135,062; Sept. 21; v. 278; p. 534.
Powder-puffs. C. & K. Mfg. Co. No. 132,316; June 22; v. 275; p. 816.
Powder-puffs. A. Gigho. No. 132,950; July 6; v. 276; p. 201.
Powder-puffs. Penn Rivet Corporation. No. 133,017; July 6; v. 276; p. 203.
Powder, rouge, depilatories, nail-polish, &c. L. R. Long. No. 131,339; May 11; v. 274; p. 401.
Powder, rouge, perfume, &c., Talcum. Goodrich Drug Company. No. 131,761; May 25; v. 274; p. 831.
Powder, soap, paste, auto-soap, &c., Shaving. A. C. Fischer. No. 136,420; Nov. 2; v. 280; p. 181.
Powder, Talcum. Grand Union Tea Co. No. 131,313; May 11; v. 274; p. 400.
Powder, Talcum. Talcum Puff Company. No. 138,505; Dec. 28; v. 281; p. 784.
Powder to be used in making a face-cream. F. A. Gray. No. 131,471; May 18; v. 274; p. 603.
Powder, Toilet. George Borgfeldt & Co. No. 131,711; May 25; v. 274; p. 829.
Powder, Toilet. G. B. Evans. Nos. 134,938–9; Sept. 21; v. 278; p. 531.
Powder, Tooth-. The Austen Cologne Company. No. 129,324; Feb. 17; v. 271; p. 507.
Powder, Tooth-. A. B. Peters. No. 131,575; May 18; v. 274; p. 607.
Powders and rouges,. Face-. Julius Schmid, Incorporated. No. 132,800; June 29; v. 275; p. 1019.
Powders and rouges, Face-. Northam Warren Corporation. No. 136,882; Nov. 9; v. 280; p. 381.
Powders, Anti-insect. A. Levac. No. 137,305; Nov. 23; v. 280; p. 795.
Powders, decolorizer, &c., Stripping and bleaching. L. S. Beller. No. 131,708; May 25; v. 274; p. 829.

Digitized by Google

Powders, Face-. F. N. Lewis. No. 130,201; Apr. 13; v. 273; p. 403.
Powders, Headache-. A. T. Fox. No. 136,422; Nov. 2; v. 280; p. 181.
Powders, Indigestion-. Davies, Rose & Co. No. 137,185; Nov. 23; v. 280; p. 792.
Powders, Insect-. McCormick Co. No. 134,319; Aug. 24; v. 277; p. 781.
Powders, lip salve and rouge, &c., Face and talcum. Julius Schmid, Incorporated. No. 131,607; May 18; v. 274; p. 608.
Powders, milk of magnesia, cough-syrup, &c., Talcum and chafing. United Drug Company. No. 134,548; Sept. 7; v. 278; p. 161.
Powders, perfumes, &c., Talcum. Frederick Stearns & Co. No. 128,865; Jan. 13; v. 270; p. 343.
Powders, rouge, Talcum and face. H. S. Clark. No. 129,649; Mar. 9; v. 272; p. 361.
Powders, Talcum, face, &c. The Agra Company. No. 131,685; May 25; v. 274; p. 829.
Powders, Toilet. George Borgfeldt & Co. No. 132,302; June 22; v. 275; p. 815.
Powders, Toilet. E. Gal, Sociedad En Comandita. No. 129,341; Feb. 17; v. 271; p. 507.
Powders, toilet cream, &c., Face and talcum. Henry Tetlow Co. No. 129,970; Mar. 9; v. 272; p. 371.
Powders, Tooth and foot. The Lorenz Company. No. 131,540; May 18; v. 274; p. 606.
Power-hoists. S. W. Prussian. No. 131,365; May 11; v. 274; p. 401.
Precious metal, Articles mounted in. H. Wiener. No. 133,872; Aug. 3; v. 277 ;p. 179.
Precious-metal hollow ware. R. H. Macy & Co. No. 136,525; Nov. 2; v. 280; p. 184.
Preparation for a medicinal tonic for the stomach, kidneys, liver, and bowels. T. G. Walton. No. 134,559; Sept. 7; v. 278; p. 161.
Preparation for asthma, &c. J. M. Pierre. No. 131,362; May 11; v. 274; p. 401.
Preparation for beautifying the hands, arms, and neck. B. Ansehl. No. 128,288; Jan. 6; v. 270; p. 177.
Preparation for boils and carbuncles, Liquid. J. W. Farrow. No. 136,800; Nov. 9; v. 280; p. 379.
Preparation for cleaning and polishing metal, glass, &c. G. W. Conard. No. 137,166; Nov. 23; v. 280; p. 791.
Preparation for cleaning and polishing metals and glass. Electro-Silicon Co. Nos. 131,100–101; May 4; v. 274; p. 196.
Preparation for cleaning and scrubbing and a preparation for washing the skin. Runyan Chemical Products Co. No. 129,860; Mar. 9; v. 272; p. 368.
Preparation for cleansing and beautifying the skin. Holton & Adams. No. 131,492; May 18; v. 274; p. 604.
Preparation for cleansing and polishing furniture, &c. N. D. Logan. No. 138,479; Dec. 28; v. 281; p. 783.
Preparation for consumption. J. Major. No. 128,444; Jan. 6; v. 270; p. 182.
Preparation for coughs and colds. Piso Company. No. 131,363; May 11; v. 274; p. 401.
Preparation for destroying boll-weevils, &c. V. Thompson. No. 131,637; May 18; v. 274; p. 609.
Preparation for hardening and waterproofing cement mixtures. Granitex Company. No. 133,250; July 20; v. 276; p. 590.
Preparation for headaches and nervous diseases. Keasbey & Mattison Company. No. 131,512; May 18; v. 274; p. 605.
Preparation for improving certain soils and treating the roots of fruit, shade trees, and shrubbery. J. D. MacGregor. No. 135,738; Oct. 19; v. 279; p. 529.
Preparation for indigestion, heartburn, &c. T. W. Langford. No. 129,489; Feb. 24; v. 271; p. 679.
Preparation for influenza. F. P. Gemenden. No. 138,454; Dec. 28; v. 281; p. 782.
Preparation for influenza, colds, headache, &c., Pharmaceutical. The Cafenarine Chemical Corporation. No. 138,429; Dec. 28; v. 281; p. 781.
Preparation for killing bugs, worms, and vermin, Garden. Consolidated Sales Company. No. 134,435; May 18; v. 274; p. 602.
Preparation for killing rats. E. D. Scott. No. 138,508; Dec. 28; v. 281; p. 784.
Preparation for laryngitis, pharyngitis, loss of voice, &c. G. A. Lanclaux. No. 129,488; Feb. 24; v. 271; p. 679.
Preparation for making a fruit acid and spice-flavored marmalade and jam. D. L. Levinson. No. 130,341; Apr. 20; v. 273; p. 621.
Preparation for making cake. Atmore & Son. No. 132,883; July 6; v. 276; p. 199.
Preparation for piles. J. E. Driver & Co. No. 129,352; Feb. 17; v. 271; p. 508.
Preparation for polishing automobiles, furniture, and stained and hardwood floors, Waxy. A. G. Briggs. No. 134,602; Sept. 14; v. 278; p. 354.
Preparation for pulmonary tuberculosis and all pulmonary affections. E. T. Krebs. No. 135,725; Oct. 19; v. 279; p. 529.
Preparation for relief of headaches and neuralgia. Vancouver Drug Company. No. 134,553; Sept. 7; v. 278; p. 161.
Preparation for relief of inflammation and pain by cutaneous absorption. Clayton Chemical Co. No. 131,431; May 18; v. 274; p. 602.
Preparation for restoring hair to its natural color. C. E. Yorke. No. 137,430; Nov. 23; v. 280; p. 799.
Preparation for rheumatism. A. A. Rugeley. No. 129,391; Feb. 17; v. 271; p. 509.
Preparation for rheumatism and cystitis. Keasbey & Mattison Company. No. 131,513; May 18; v. 274; p. 605.
Preparation for shaving and skin-healing purposes. The Napco Corporation. No. 135,022; Sept. 21; v. 278; p. 533.
Preparation for skin diseases, Pharmaceutical. Sunbeam Chemical Company. No. 131,372; May 11; v. 274; p. 402.
Preparation for softening water. California Soda Products Co. No. 134,606; Sept. 14; v. 278; p. 354.
Preparation for Spanish influenza, &c. J. Major. No. 129,298; Feb. 10; v. 271; p. 356.
Preparation for stimulating the growth of the eyebrows and eyelashes. T. L. Williams. No. 129,565; Feb. 24; v. 271; p. 682.
Preparation for the amelioration of pyorrhea, &c. C. S. Cohen. No. 128,654; Jan. 13; v. 270; p. 337.
Preparation for the hair and scalp. L. H. Williams. No 136,705; Nov. 2; v. 280; p. 190.
Preparation for the relief of constipation and indigestion. F. A. Sloan. No. 128,857; Jan. 13; v. 270; p. 343.
Preparation for the relief of constipation and other intestinal disorders of women. Walter-William Therapeutic Laboratories. No. 131,673; May 18; v. 274; p. 610.
Preparation for the relief of pneumonia, croup, &c. W. H. King Drug Co. No. 129,481; Feb. 24; v. 271; p. 679.
Preparations for the skin and hair. H. Evans. No. 135,987; Oct. 26; v. 279; p. 718.
Preparation for the treatment of acidosis. R. M. Sterrett. No. 129,892; Mar. 9; v. 272; p. 358.
Preparation for the treatment of biliousness, constipation, &c. W. W. Abel. No. 136,281; Nov. 2; v. 280; p. 177.
Preparation for the treatment of cancers, &c. R. L. Lawless. No. 128,762; Jan. 13; v. 270; p. 340.
Preparation for the treatment of certain named affections. F. G. Wiechmann. No. 129,934; Mar. 9; v. 272; p. 370.
Preparation for the treatment of certain named ailments. J. W. Howe & Son. No. 129,747; Mar. 9; v. 272; p. 364.
Preparation for the treatment of certain named ailments. Radway & Co. No. 133,495; July 27; v. 276; p. 771.
Preparation for the treatment of certain named ailments, Liquid. J. B. Borders. No. 135,612; Oct. 19; v. 279; p. 526.
Preparation for the treatment of certain named diseases. L. D. Trent. No. 129,093; Jan. 20; v. 270; p. 476.
Preparation for the treatment of certain named diseases. Wright & Lawrence. No. 134,854; Sept. 14; v. 278; p. 362.
Preparation for the treatment of certain named diseases and affections. G. J. Horning. No. 132,413; June 22; v. 275; p. 819.
Preparation for the treatment of consumption. Mr. and Mrs. Chas. W. Taylor. No. 137,715; Nov. 30; v. 280; p. 1001.
Preparation for the treatment of consumption and tuberculosis. Stanley & Griffin. No. 128,988; Jan. 20; v. 270; p. 473.
Preparation for the treatment of consumption and tuberculosis. Stanley & Griffin. No. 134,670; Sept. 14; v. 278; p. 356.
Preparation for the treatment of corns. Zatso Chemical Company. No. 138,375; Dec. 21; v. 281; p. 568.
Preparation for the treatment of dandruff. Austinol Chemical Co. No. 132,618; June 29; v. 275; p. 1013.
Preparation for the treatment of dandruff. Thames Drug Company. No. 129,551; Feb. 24; v. 271; p. 681.
Preparation for the treatment of fevers. E. Bailey. No. 138,217; Dec. 21; v. 281; p. 563.
Preparation for the treatment of hay-fever. Baumann-Ramelli Company. No. 129,427; Feb. 24; v. 271; p. 677.
Preparation for the treatment of kidney, liver, and stomach troubles. Cramer & Casper. No. 138,441; Dec. 28; v. 281; p. 782.
Preparation for the treatment of la grippe, colds, and muscular pains. H. C. Wurm. No. 132,599; June 22; v. 275; p. 825.
Preparation for the treatment of mange, eczema, &c. Carrigan-Erckert Co. No. 129,438; Feb. 24; v. 271; p. 678.
Preparation for the treatment of menstrual irregularities, &c. A. T. Florcin. No. 128,696; Jan. 13; v. 270; p. 338.
Preparation for treatment of neuralgia, rheumatism, colds, &c. W. K. Edwards. No. 129,453; Feb. 24; v. 271; p. 678.
Preparation for treatment of pneumonia, croup, colds, &c. Pi-no-menth Chemical Company. No. 129,526; Feb. 24; v. 271; p. 680.
Preparation for the treatment of pyorrhea.. C. W. Archer. No. 129,416; Feb. 24; v. 271; p. 677.
Preparation for the treatment of pyorrhea. Mrs. T. J. McHale. No. 129,494; Feb. 24; v. 271; p. 679.
Preparation for the treatment of rheumatism, &c. Dr. E. S. Lefler. No. 128,428; Jan. 6; v. 270; p. 181.
Preparation for the treatment of rheumatism. Frank Russo and Antonio Cavallare. No. 136,175; Oct. 26; v. 279; p. 724.
Preparation for the treatment of sore throat. W. J. Hurley. No. 136,473; Nov. 2; v. 280; p. 183.

Digitized by Google

Preparation for the treatment of the hair. L. H. Dancy. No. 137,182; Nov. 23; v. 280; p. 792.
Preparation for the treatment of the teeth. The Pemetine Company. No. 134,522; Sept. 7; v. 278; p. 160.
Preparation for treating acidity and infant ailments. Mead, Johnson & Co. No. 128,743; Jan. 16; v. 270; p. 340.
Preparation for treating eyes. Usit Mfg. Co. of America. No. 131,654; May 18; v. 274; p. 609.
Preparation for treatment of certain named ailments. S. D. Vansickle Estate. No. 132,848; June 29; v. 275; p. 1020.
Preparation for treatment of certain named diseases and affections, Tonic. P. D. Phillips. No. 132,482; June 22; v. 275; p. 821.
Preparation for treatment of dysmenorrhea, &c. Walter-William Therapeutic Laboratories. No. 131,674; May 18; v. 274; p. 610.
Preparation for treatment of mucous-membrane disorders and diseases. Kolyptol Chemical Company. No. 131,332; May 11; v. 274; p. 400.
Preparations for treatment of the hair and scalp. Deftic Company. No. 137,193; Nov. 23; v. 280; p. 792.
Preparation for use in driving off mosquitos. Merido Drug & Mfg. Co. No. 129,791; Mar. 9; v. 272; p. 365.
Preparation for use in the prevention and treatment of infectious diseases. G. Klemperer. No. 132,432; June 22; v. 275; p. 820.
Preparation for use in the treatment of bunions. R. A. Hemig. No. 132,871; June 29; v. 275; p. 1021.
Preparation for use in the treatment of colds, grippe, &c. R. N. Partin. No. 129,523; Feb. 24; v. 271; p. 680.
Preparation for use in the treatment of piles. I. F. Rhodenbaugh. No. 131,590; May 18; v. 274; p. 607.
Preparation for use in the treatment of the liver and kidneys, &c. L. N. Drish. No. 129,447; Feb. 24; v. 271; p. 678.
Preparation having deodorant, antiseptic, and perspiration-absorbent properties. United Drug Company. No. 134,835; Sept. 14; v. 278; p. 361.
Preparation in cake form for polishing metals. The Hanson & Van Winkle Company. Nos. 133,986–7; Aug. 10; v. 277; p. 388.
Preparation, Liquid. The Master Builders Company. No. 134,735; Sept. 14; v. 278; p. 358.
Preparation, Liquid blood-purifying. A. Dobrickas. No. 135,224; Sept. 28; v. 278; p. 702.
Preparation of salvelike consistency for the alleviation of certain named ailments. Dr. Clark's Chemical Laboratories. No. 132,645; June 29; v. 275; p. 1014.
Preparation, Pharmaceutical. J. P. Canaveri. No. 138,431; Dec. 28; v. 281; p. 781.
Preparation, Powder to be used as a washing. The Mills Brothers Company. No. 134,031; Aug. 10; v. 277; p. 389.
Preparation, Stomach. Dr. A. Frank. No. 129,357; Feb. 17; v. 271; p. 508.
Preparation that destroys dandruff, &c. S. D. Ktenaveas. No. 130,787; May 4; v. 274; p. 186.
Preparation to be administered internally to horses and other live stock for scratches, &c. Kewley Bros. No. 132,429; June 22; v. 275; p. 819.
Preparation to increase the efficiency of gasolene. Gas Saver Company. No. 129,722; Mar. 9; v. 272; p. 363.
Preparation used as a deodorant and relief for excessive perspiration. R. C. Lawry. No. 132,505; June 22; v. 275; p. 822.
Preparation used as a sour in laundrying. J. E. Smith. No. 129,540; Feb. 24; v. 271; p. 681.
Preparation used as a sweetening-syrup for beverages. The Nulomoline Company. No. 132,219; June 15; v. 275; p. 619.
Preparation used as an external application for pains, aches, &c. E. A. Huff. No. 129,749; Mar. 9; v. 272; p. 364.
Preparation used for application to a typewriter-platen to prevent slipping. Cant-Slip Co. No. 133,927; Aug. 10; v. 277; p. 386.
Preparation used for intramuscular, intravenous, subcutaneous, or local administration. The Intravenous Products Company. No. 131,502; May 18; v. 274; p. 604.
Preparation used in making a soft drink, and the drink. Ko-Ka-Po Co. No. 129,293; Feb. 10; v. 271; p. 356.
Preparation used in treatment for worms. L. P. Beck. No. 136,317; Nov. 2; v. 280; p. 178.
Preparation used internally in cases of chronic constipation, mucous colitis, &c. J. Kalish Inc. No. 133,444; July 27; v. 276; p. 769.
Preparation used to soften cuticle and remove stains. The Sani-Mani Labratory. No. 138,340; Dec. 21; v. 281; p. 567.
Preparations, Cascara. Eli Lilly & Company. No. 131,745; May 25; v. 274; p. 831.
Preparations for diseases of the nose and throat. E. J. Sormani. No. 135,339; Sept. 28; v. 278; p. 705.
Preparations for headache, colds, grippe, &c. F. A. Norwood. No. 134,519; Sept. 7; v. 278; p. 160.
Preparations for headaches, coughs, &c. L. Zeh. No. 128,909; Jan. 13; v. 270; p. 345.
Preparations for repelling mosquitos and healing their bites. McKesson & Robbins. No. 132,448; June 22; v. 275; p. 820.
Preparations for surface finish in the nature of a varnish, Liquid. Van Camp Hardware & Iron Company. No. 134,838; Sept. 14; v. 278; p. 361.
Preparations for the relief of la grippe. Vancouver Drug Company. No. 132,570; June 22; v. 275; p. 824.
Preparations for the treatment of eczema, &c. E. M. Laukman. No. 134,991; Sept. 21; v. 278; p. 532.
Preparations for treatment of eczema, &c. U. G. McClure. No. 132,575; June 22; v. 275; p. 824.
Preparations, Skin. Urego Chemical Laboratories. No. 131,653; May 18; v. 274; p. 609.
Preservative compound for meats, fish, and fowl. Price Compound Company. No. 132,782; June 29; v. 275; p. 1018.
Preservative compound for preserving food. Deutsche Conservierungsgesellschaft mit beschrankter Haftung. No. 134,444; May 18; v. 274; p. 602.
Preservative for vegetable fibers. Lyster Chemical Company. No. 128,770; Jan. 13; v. 270; p. 340.
Preserves, Fruit. Norman Bros. & Berliant. No. 130,556; Apr. 27; v. 273; p. 804.
Preserves, jams, jelly, &c., Fruit. The Adler Co. No. 136,284; Nov. 2; v. 280; p. 177.
Press-boards. R. Bass. No. 128,306; Jan. 6; v. 270; p. 178.
Pressure-gage glasses. A. W. Chesterton Co. No. 135,566; Oct. 12; v. 279; p. 347.
Pretzels. Reading Baking & Pretzel Co. No. 138,095; Dec. 14; v. 281; p. 400.
Pretzels, cakes, crackers, biscuits. York Pretzel Bakery. No. 131,007; May 4; v. 274; p. 193.
Print. L. A. Gottschalk. No. 129,732; Mar. 9; v. 272; p. 364.
Prints and publications. Medici Society—American Branch. No. 134,737; Sept. 14; v. 278; p. 358.
Prints and publications. Medici Society—American Branch. No. 136,094; Oct. 26; v. 279; p. 721.
Prints and publications. Medici Society—American Branch, Inc. No. 134,026; Aug. 10; v. 277; p. 389.
Prints and publications. Palmer Photoplay Corporation. No. 136,888; Nov. 9; v. 280; p. 381.
Printed sheets. National Geographic Society. No. 133,170; July 13; v. 276; p. 403.
Printing or marking and communicating system and apparatus and parts thereof. The National Cash Register Company. No. 136,876; Nov. 9; v. 280; p. 381.
Printing-press inking-rollers. The B. F. Goodrich Company. No. 133,249; July 20; v. 276; p. 590.
Printing-presses and parts thereof. Lisenby Manufacturing Company. No. 130,347; Apr. 20; v. 273; p. 622.
Printing-presses and parts thereof. Lisenby Manufacturing Company. No. 134,511; Sept. 7; v. 278; p. 160.
Printing, &c., tickets, Machines for. The National Cash Register Company. No. 134,258; Aug. 24; v. 277; p. 778.
Printing work, Printed forms for estimates of. H. M. Hastings. No. 130,747; May 4; v. 274; p. 185.
Prop-brackets for supporting trees, &c., Adjustable. G. B. Gamble. No. 136,429; Nov. 2; v. 280; p. 181.
Publication. Advance Automobile Accessories Corporation. No. 129,572; Mar. 9; v. 272; p. 359.
Publication. The Connoisseur Corporation. No. 129,656; Mar. 9; v. 272; p. 361.
Publication. Fairchild-Company. No. 133,410; July 27; v. 276; p. 768.
Publication. J. F. Fisher. No. 138,241; Dec. 21; v. 281; p. 563.
Publication, Advertising. F. W. Brown. Nos. 133,363–4; July 27; v. 276; p. 767.
Publication, Biweekly. D. L. Michaelson. No. 135,490; Oct. 12; v. 279; p. 344.
Publication, Daily. News Syndicate Co. No. 134,043; Aug. 10; v. 277; p. 389.
Publication issued at irregular intervals, Art-needlework. Bernhard Ulmann Co. No. 138,144; Dec. 14; v. 281; p. 402.
Publication, Medical periodical. F. I. Lackenbach. No. 137,300; Nov. 23; v. 280; p. 795.
Publication, Monthly. American Fruit Grower Co. No. 129,575; Mar. 9; v. 272; p. 359.
Publication, Monthly. American Steel Foundries. No. 136,300; Nov. 2; v. 280; p. 177.
Publication, Monthly. The Barnes-Ross Company. No. 134,339; Aug. 31; v. 277; p. 971.
Publication, Monthly. The Catholic Missionary Union. No. 136,771; Nov. 9; v. 280; p. 378.
Publication, Monthly. John W. Masury & Son. No. 136,864; Nov. 9; v. 280; p. 381.
Publication, Monthly. Michigan Lubricator Company. No. 134,029; Aug. 10; v. 277; p. 389.
Publication, Monthly. The Penton Publishing Company. No. 136,896; Nov. 9; v. 280; p. 382.
Publication, Monthly. The Penton Publishing Company. No. 137,050; Nov. 16; v. 280; p. 584.
Publication, Monthly. Railroad Yardmasters of America. No. 136,905; Nov. 9; v. 280; p. 382.
Publication, Monthly. Reader's Publishing Corporation. No. 137,685; Nov. 30; v. 280; p. 1000.
Publication, Monthly. Review Publishing Company. No. 137,687; Nov. 30; v. 280; p. 1000.
Publication, Monthly. The Searchlight Publishing Company. No. 138,113; Dec. 14; v. 281; p. 401.

Digitized by Google

Alphabetical list of trade-marks—Continued.

Publication, Monthly. United Shoe Machinery Athletic Association. No. 133,534; July 27; v. 276; p. 772.
Publication, Monthly. Wirthlin-Mann Co. No. 134,463; Aug. 31; v. 277; p. 975.
Publication, Monthly periodic. American Industries. No. 129,576; Mar. 9; v. 272; p. 859.
Publication, Periodical. Detmer Woolen Co. No. 135,969; Oct. 26; v. 279; p. 717.
Publication, Periodical. W. B. Frost. No. 136,427; Nov. 2; v. 280; p. 181.
Publication, Periodical. Waltham Watch Company. No. 137,407; Nov. 23; v. 280; p. 798.
Publication, Printed. General Motors Export Company. No. 133,971; Aug. 10; v. 277; p. 387.
Publication published monthly, Printed. United Neighborhood Houses of New York. No. 137,730; Nov. 30; v. 280; p. 1001.
Publication, Quarterly. The Royal Pattern Co. No. 136,608; Nov. 2; v. 280; p. 187.
Publication, Quarterly. A. Stein & Company. No. 137,067; Nov. 16; v. 280; p. 584.
Publication, Section of a monthly. The Haberdasher Co. No. 136,822; Nov. 9; v. 280; p. 379.
Publication, Trade. National Council of Traveling Salesmen's Associations. No. 133,474; July 27; v. 276; p. 770.
Publication, Trade. Ready To Wear Publishing Company. No. 133,496; July 27; v. 276; p. 771.
Publication, Weekly. Aldrich Publishing Company. No. 133,348; July 27; v. 276; p. 767.
Publication, Weekly. M. Bloomfield. No. 136,329; Nov. 2; v. 280; p. 178.
Publication, Weekly. Columbia Graphophone Manufacturing Co. No. 137,162; Nov. 23; v. 280; p. 791.
Publication, Weekly. Embroiderers' Publishing Corporation. No. 133,406; July 27; v. 276; p. 768.
Publication, Weekly. A. T. Jory. No. 135,715; Oct. 19; v. 279; p. 529.
Publication, Weekly. The Penton Publishing Company. No. 136,895; Nov. 9; v. 280; p. 382.
Publications. Poor's Publishing Company. No. 133,490; July 27; v. 276; p. 771.
Publications. Poor's Publishing Company. No. 134,770; Sept. 14; v. 278; p. 359.
Publications. Toledo Scale Company. No. 129,902; Mar. 9; v. 272; p. 869.
Publications. Zellerbach Paper Company. No. 137,431; Nov. 23; v. 280; p. 799.
Publications issued quarterly. Society, Sons of The Revolution, In the State of California. No. 137,463; Nov. 23; v. 280; p. 800.
Publications issued semi-annually. Johnson, Cowdin and Co. No. 136,839; Nov. 9; v. 280; p. 380.
Publications, Monthly. Baltimore Bargain House. No. 137,548; Nov. 30; v. 280; p. 995.
Publications, Monthly. The Crown Cork and Seal Company of Baltimore City. No. 137,580; Nov. 30; v. 280; p. 996.
Publications, Monthly. The Kiwanis Club, International. No. 136,498; Nov. 2; v. 280; p. 183.
Publications, Monthly and annual. The Chemical National Bank of New York. No. 137,569; Nov. 30; v. 280; p. 996.
Publications, Weekly. S. G. Howell. No. 135,704; Oct. 19; v. 279; p. 528.
Pudding, Cocoa. F. H. White. No. 137,740; Nov. 30; v. 280; p. 1001.
Pudding-dessert mixture. Egg-O Co. No. 135,434; Oct. 12; v. 279; p 342.
Pudding-powder. W. J. Fikes. No. 134,360; Aug. 31; v. 277; p. 972.
Pudding, Prepared. H. J. Buehler. No. 133,918; Aug. 10; v. 277; p. 386.
Pulleys. Williams Patent Crusher & Pulverizer Co. No. 134,202; Aug. 17; v. 277; p. 582.
Pulleys, Window-. Ideal Window Pulley Corporation. No. 137,799; Dec. 7; v. 281; p. 196.
Pulp-board. A. D. Gurney Company. No. 135,684; Oct. 19; v. 279; p. 528.
Pulp-board. A. D. Gurney Company. No. 136,022; Oct. 26; v. 279; p. 719.
Pumps and pumping liquids. Michigan Machine Company. No. 131,347; May 11; v. 274; p. 401.
Pump-lubricating systems, Hand-force. Critz Manufacturing Company. No. 137,174; Nov. 23; v. 280; p. 791.
Pumps, &c. Kellogg Manufacturing Co. No. 138,039; Dec. 14; v. 281; p. 398.
Pumps. F. A. B. Manufacturing Co. No. 130,493; Apr. 27; v. 273; p. 802.
Pumps, Air-. Croll-Reynolds Co. No. 136,785; Nov. 9; v. 280; p. 378.
Pumps and grease-guns, Automobile air and oil. Bell Pump & Manufacturing Co. No. 128,622; Jan. 13; v. 270; p. 336.
Pumps and turbines. Coppus Engineering and Equipment Company. No. 128,660; Jan. 13; v. 270; p. 337.
Pumps, Automobile and bicycle. Coe-Stapley Manufacturing Corporation. No. 128,333; Jan. 6; v. 270; p. 178.
Pumps, Automobile circulating-. B. D. Gilson. No 128,390; Jan. 6; v. 270; p. 180.
Pumps, Centrifugal. R. E. Rich. No. 128,501; Jan. 6; v. 270; p. 188.
Pumps, condensers, and engines. Dow Pump and Diesel Engine Company. No. 133,635; Aug. 3; v. 277; p. 171.
Pumps employing poisonous gases for killing gophers, &c. W. R. Woodruff. No. 131,678; May 18; v. 274; p. 610.
Pumps, engines, pump jacks, &c. Challenge Company. No. 136,366; Nov. 2; v. 280; p. 179.
Pumps for all classes of industrial service, oil and gas engines, &c. National Transit Pump & Machine Company. No. 130,843; May 4; v. 274; p. 188.
Pumps for boats, Hand bilge-water. R. T. Windle. No. 130,447; Apr. 20; v. 273; p. 624.
Pumps, Liquid-measuring. Guarantee Liquid Measure Co. No. 136,446; Nov. 2; v. 280; p. 182.
Pumps, liquid-pumps, and blowers, Vacuum and pressure air-. Crescent Pump Company. No. 133,623; Aug. 3; v. 277; p. 171.
Pumps, Oil-. Lunkenheimer Company, The. No. 131,341; May 11; v. 274; p. 401.
Pumps, Pneumatic. De Laval Separator Company. No. 128,671; Jan. 13; v. 270; p. 337.
Pumps, Power-driven water-supply. The Goulds Manufacturing Co. No. 138,008; Dec. 14; v. 281; p. 397.
Pumps, pumping machinery, jet and surface condensers, Steam-. The Chalmers Pump & Manufacturing Company. No. 135,176; Sept. 21; v. 278; p. 539.
Pumps, Tire-. Bridgeport Brass Company. No. 129,266; Feb. 10; v. 271; p. 355.
Pumps, water-supply and storage system and parts thereof. Decatur Pump & Mfg. Co. No. 136,400; Nov. 2; v. 280; p. 180.
Pumps, Vacuum suction-. American Device Manufacturing Company. No. 134,151; Aug. 17; v. 277; p. 581.
Pumping systems, &c. Latta-Martin Pump Co. Nos. 128,758–60; Jan. 13; v. 270; p. 340.
Pumping, &c., water or other fluids, Pneumatic-pressure systems for. Burnett-Larsh Manufacturing Company. No. 135,931; Oct. 26; v. 279; p. 716.
Punch, Fruit. N. E. French. No. 138,242; Dec. 21; v. 281; p. 564.
Punches. H. M. Diggs. No. 130,291; Apr. 20; v. 273; p. 620.
Punches, shears, &c., Power steel. Beatty Machine & Mfg. Co. No. 137,551; Nov. 30; v. 280; p. 996.
Puttees. Morris Rashkis, Inc. No. 128,494; Jan. 6; v. 270; p. 183.
Puttees, Fabric. Eaton Rapids Woolen Mills. No. 131,740; May 25; v. 274; p. 830.
Puzzle. Droelle & Vital. No. 130,701; May 4; v. 274; p. 184.
Puzzles. G. T. Robinson. No. 130,893; May 4; v. 274; p. 190
Puzzles. C. A. Schmitz. No. 129,067; Jan. 20; v. 270; p. 475.
Pyrometers, Protecting-tubes for. The Brown Instrument Company. No. 130,653; May 4; v. 274; p. 182.
Pyroxylin compound. George Borgfeldt & Co. No. 131,963; June 8; v. 275; p. 413.
Pyroxylin products. The Celluloid Company. No. 136,363; Nov. 2; v. 280; p. 179.
Pyroxylin products. The Celluloid Company. Nos. 137,773–4; Dec. 7; v. 281; p. 195.
Quilts, cotton and wool blankets, and traveling-rugs. Rogers, Hennessey & Jenkins. No. 133,309; July 20; v. 276; p. 592.
Quinin ethyl carbonate. Takamine Laboratory. No. 132,830; June 29; v. 275; p. 1020.
Radiator compound for internal-combustion engines. The Chamberlain-Haber Chemical Co. No. 134,482; Sept. 7; v. 278; p. 159.
Radiator-seal. Bear-Cat Products Co. No. 128,619; Jan. 13; v. 270; p. 336.
Radiator shields, House-heating-. Sodemann Heat & Power Co. No. 132,814; June 29; v. 275; p. 1019.
Radiator shutters, Automobile-. American Metals Corporation. No. 136,298; Nov. 2; v. 280; p. 177.
Radiator-traps. The Trane Company. No. 132,838; June 29; v. 275; p. 1020.
Radiator-valves and check-valves. C. Feuser. No. 131,110; May 4; v. 274; p. 196.
Radiators and boilers, Solution to clean out. Rada-Solvt Co. No. 128,830; Jan. 13; v. 270; p. 342.
Radiators, boilers, &c., Compound for stopping leaks in. M. Dannenhirsch. No. 128,669; Jan. 13; v. 270; p. 337.
Radiators, Covers for heating-. The Carey Company. No. 134,345; Aug. 31; v. 277; p. 971.
Radiators for internal-combustion engines. United States Cartridge Company. Nos. 132,061–2; June 8; v. 275; p. 416.
Radio telegraph and telephone apparatus. Kilbourne & Clark Manufacturing Co. No. 134,702; Sept. 14; v. 278; p. 357.
Radiosignaling, Electrical apparatus for. J. C. Van Horn. No. 138,150; Dec. 14; v. 281; p. 402.
Railway appliances and parts thereof. Koppel Industrial Car & Equipment Company. No. 130,783; May 4; v. 274; p. 186.
Railway-spikes. American Spike Company. No. 137,759; Dec. 7; v. 281; p. 195.
Raincoats. J. Harbert; No. 130,308; Apr. 27; v. 273; p. 802.
Raincoats. Kahn Tailoring Company. No. 133,443; July 27; v. 276; p. 769.

Digitized by Google

Alphabetical list of trade-marks—Continued.

Raincoats. New York Mackintosh Clothing Company. Nos. 129,513–14; Feb. 24; v. 271; p. 680.
Raincoats. Edward Ripley & Son. No. 130,884; May 4; v. 274; p. 189.
Raisins, sugar-coated and chocolate-coated peanuts C. Pinder. No. 128,485; Jan. 6; v. 270; p. 183.
Ration, Dairy. The Ubiko Milling Company. No. 132,059; June 8; v. 275; p. 416.
Raw and partly prepared materials. Chelsea Engineering Sales Corporation. No. 136,367; Nov. 2; v. 280; p. 179.
Razor-blades. Simmons Hardware Company. No. 133,820; Aug. 3; v. 277; p. 177.
Razor blades, Safety-. Simmons Hardware Company. No. 134,191; Aug. 17; v. 277; p. 582.
Razor-stroppers, Mechanical. Société Industrielle des Specialties Techniques S. A. No. 131,624; May 18; v. 274; p. 608.
Razor-strops. Gifford-Weiffenbach Company. No. 132,387; June 22; v. 275; p. 818.
Razor-strops. F. J. Wittl. No. 130,999; May 4; v. 274; p. 193.
Razors. L. Baer. No. 132,087; June 15; v. 275; p. 615.
Razors. Boker Cutlery & Hardware Company. No. 133,575; Aug. 3; v. 277; p. 169.
Razors. Geo. W. Korn Razor Mfg. Co. No. 130,334; Apr. 20; v. 273; p. 621.
Razors. Simmons Hardware Company. No. 136,188; Oct. 26; v. 279; p. 724.
Razors and blades, Safety-. Gillette Safety Razor Company. No. 134,317; Aug. 24; v. 277; p. 781.
Razors and blades, Safety. Madden Safety Razor Corporation. No. 135,741; Oct. 19; v. 279; p. 530.
Razors and parts thereof and safety-razor blades, Safety-. Vic Manufacturing Corporation. No. 136,974; Nov. 9; v. 280; p. 384.
Razors and razor-blades, Safety-. W. E. O'Reilly. No. 129,198; Jan. 27; v. 270; p. 615.
Razors and shears. Rapp & Doolittle. No. 137,379; Nov. 23; v. 280; p. 797.
Razors and stroppers, Safety-. Collins Safety Razor Company. No. 137,974; Dec. 14; v. 281; p. 396.
Razors, blades, and mechanical stroppers for same, Safety-. American Safety Razor Co. No. 130,008; Mar. 23; v. 272; p. 731.
Razors, Safety-. Gillette Safety Razor Company. Nos. 132,150–2; June 15; v. 275; p. 617.
Razors, Safety-. J. Potter. No. 130,560; Apr. 27; v. 273; p. 804.
Razors, safety-razors, and safety-razor blades. American Safety Razor Corporation. No. 137,534; Nov. 30; v. 280; p. 995.
Reamers. The Kelly Reamer Company. No. 135,720; Oct. 19; v. 279; p. 529.
Reamers. Kor-Doh Manufacturing Corporation. No. 138,044; Dec. 14; v. 281; p. 398.
Reamers, metal-cutting drills, &c. Chrobaltic Tool Company. No. 132,336; June 22; v. 275; p. 817.
Receptacles. Sealright Company. No. 133,812; Aug. 3; v. 277; p. 177.
Receptacles. Southern Novelty Company. No. 137,865; Dec. 7; v. 281; p. 198.
Receptacles and parts thereof. Colwell Cooperage Company, Inc. No. 128,357; Jan. 6; v. 270; p. 179.
Receptacles to be carried on the wrist. Z. A. Tonla Corporation. No. 137,725; Nov. 30; v. 280; p. 1001.
Receptacles, Trash-. National Sanitary Street System. No. 137,046; Nov. 16; v. 280; p. 584.
Reflectors, Glass. National X Ray Reflector Co. No. 132,027; June 8; v. 275; p. 415.
Refrigerating and ice-making systems and parts thereof. York Manufacturing Company. No. 131,947; June 1; v. 275; p. 199.
Refrigerating and ice-making system and parts thereof. York Manufacturing Company. No. 136,711; Nov. 2; v. 280; p. 190.
Refrigerating apparatus. Kelvinator Corporation. No. 129,988; Mar. 16; v. 272; p. 539.
Refrigerating-machines. Automatic Carbonic Machine Company. No. 133,570; Aug. 3; v. 277; p. 169.
Refrigerating-machines. Automatic Carbonic Machine Company. No. 137,543; Nov. 30; v. 280; p. 995.
Refrigerating-machines. Blue Bird Manufacturing Company. No. 133,584; Aug. 3; v. 277; p. 170.
Refrigerating-machines. G. R. Jarman. No. 135,471; Oct. 12; v. 279; p. 344.
Refrigerators. Alaska Refrigerator Company. No. 128,277; Jan. 6; v. 270; p. 177.
Refrigerators. The Alaska Refrigerator Co. Nos. 129,972–3; Mar. 16; v. 272; p. 539.
Refrigerators. The Alaska Refrigerator Company. No. 135,577; Oct. 19; v. 279; p. 525.
Refrigerators. Harder Manufacturing Corporation. Nos. 135,254–5; Sept. 28; v. 278; p. 703.
Refrigerators. Philadelphia Gas Range Co. No. 130,001; Mar. 16; v. 272; p. 540.
Refrigerators. I. F. Stevens. No. 136,950; Nov. 9; v. 280; p. 383.
Refrigerators. I. F. Stevens. No. 137,482; Nov. 23; v. 280; p. 801.
Refrigerators. The Frigidaire Corporation. No. 137,502; Nov. 23; v. 280; p. 803.
Refrigerators and ice-boxes. McKee Refrigerator Company. No. 136 520; Nov. 2; v. 280; p. 184.
Refrigerators and water-coolers. John Wanamaker, Philadelphia. No. 136,686; Nov. 2; v. 280; p. 189.
Refrigerators, Iceless. Atmospheric Refrigeration Corporation. No. 135,389; Oct. 12; v. 279; p. 341.
Refiners. C. M. Lash. No. 138,050; Dec. 14; v. 281; p. 399.
Remedies and sanitary products. Royoleum Co-Operative Mfg. Co. No. 129,859; Mar. 9; v. 272; p. 367.
Remedies, cough medicine, liniment, hair-tonic, Corn. J. C. Jonas. No. 134,695; Sept. 14; v. 278; p. 357.
Remedies for acid condition of the stomach. M. F. Pratt. No. 131,578; May 18; v. 274; p. 607.
Remedies for headache, insomnia, &c. United Laboratories. No. 131,380; May 11; v. 274; p. 402.
Remedies, Laxative medicinal. E. R. Marten. No. 134 733; Sept. 14; v. 278; p. 358.
Remedies, Rabbit. D. E. Caldwell. No. 129,436; Feb. 24; v. 271; p. 677.
Remedies, Scalp. T. J. Yntema. No. 135,172; Sept. 21; v. 278; p. 538.
Remedies, Toothache. L. H. Gloeckler. No. 134,957; Sept. 21; v. 278; p. 531.
Remedy against dandruff and falling out of hair, &c. R. M. Holquin. No. 134,681; Sept. 14; v. 278; p. 356.
Remedy and corn cure, Foot. Aseptic Chemical Company. No. 138,417; Dec. 28; v. 281; p. 781.
Remedy and tonic, Malarial. Burwell & Dunn Co. No. 132,313; June 22; v. 275; p. 816.
Remedy, Blood. C. A. Harris. No. 131,484; May 18; v. 274; p. 604.
Remedy compound, vegetable and mineral, Blood-. R. A. Courtney. No. 133,396; July 27; v. 276; p. 768.
Remedy, Corn. R. E. Brooks. No. 129,631; Mar. 9; v. 272; p. 360.
Remedy, Corn and bunion. H. J. Waltman. No. 129,560; Feb. 24; v. 271; p. 681.
Remedy, Eye. Wheeler Optical Company. No. 131,388; May 11; v. 274; p. 402.
Remedy for certain named ailments. C. R. Meyer. No. 129,793; Mar. 9; v. 272; p. 365.
Remedy for certain named ailments. Price Medicine Co. No. 135,777; Oct. 19; v. 279; p. 531.
Remedy for certain named ailments, and toilet preparations. Omego Chemical Company. No. 132,470; June 22; v. 275; p. 821.
Remedy for chills, fevers, colds, &c. L. Duffy. No. 131,446; May 18; v. 274; p. 602.
Remedy for chronic constipation, &c. F. C. Cook. No. 129,657; May 9; v. 272; p. 361.
Remedy for colds and malaria. Keasbey & Mattison Company. No. 131,514; May 18; v. 274; p. 605.
Remedy for corns, callouses, warts, &c. E. Lawrence & Co. No. 129,490; Feb. 24; v. 271; p. 679.
Remedy for corns, warts, &c. H. Schlesinger. No. 128,847; Jan. 13; v. 270; p. 343.
Remedy for cuts, burns, &c. Creotina Chemical Company. No. 128,666; Jan. 13; v. 270; p. 337.
Remedy for cuts, burns, &c. J. W. Latty. No. 128,761; Jan. 13; v. 270; p. 340.
Remedy for diseases of the heart and nerves. Van Vleet Mansfield Drug Co. No. 131,258; May 4; v. 274; p. 201.
Remedy for eczema, poison ivy, &c. X-Zema Remedy Co. No. 138,374; Dec. 21; v. 281; p. 568.
Remedy for falling hair, dandruff, and scalp diseases. S. B. Deaderick. No. 134,492; Sept. 7; v. 278; p. 159.
Remedy for horses, Heave. G. Leicht. No. 131,530; May 18; v. 274; p. 605.
Remedy for inactive liver. M. M. Taylor. No. 128,538; Jan. 6; v. 270; p. 185.
Remedy for influenza, &c. E. T. Krebs. No. 131,792; May 25; v. 274; p. 832.
Remedy for la grippe, colds, and headache. D. Klebanoff. No. 131,520; May 18; v. 274; p. 605.
Remedy for lung trouble. B. M. Desch. No. 132,664; June 29; v. 275; p. 1015.
Remedy for neuralgia and headache. A. R. Perry. No. 129,047; Jan. 20; v. 270; p. 475.
Remedy for piles. The K-W Medicine Co. No. 137,817; Dec. 7; v. 281; p. 197.
Remedy for piles. A. M. Sharkey. No. 135,072; Sept. 21; v. 278; p. 535
Remedy for piles and fistulas. S. P. O'Lee. No. 136,133; Oct. 26; v. 279; p. 722.
Remedy for promoting fertility of live stock. Aborno Laboratory. No. 128,274; Jan. 6; v. 270; p. 177.
Remedy for pyorrhea. N. Farmakis. No. 132,369; June 22; v. 275; p. 818.
Remedy for rheumatism. A. Dellapi. No. 129,347; Feb. 17; v. 271; p. 507.
Remedy for rheumatism and sciatica. S. Mazzone. No. 131,550; May 18; v. 274; p. 606.
Remedy for skin eruptions, &c. Reese Chemical Co. No. 128,497; Jan. 6; v. 270; p. 183.
Remedy for sore throat, cuts, burns, &c. The Yardley Chemical Corporation. No. 138,528; Dec. 28; v. 281; p. 784.
Remedy for various affections of the lungs and relief of consumptive and asthmatic patients, Internal. V. L. Blahnik & Sons. No. 134,478; Sept. 7; v. 278; p. 159.

Digitized by Google

Remedy for venereal diseases. M. Leprince. No. 134,996; Sept. 21; v. 278; p. 532.
Remedy for war-wounds, old sores, &c. A. N. Martin. No. 135,011; Sept. 21; v. 278; p. 533.
Remedy, Hog-. W. E. Kelloway. No. 138,190; Dec. 14; v. 281; p. 405.
Remedy, Pile. O. Wingate. No. 132,597; June 22; v. 275; p. 825.
Remedy, Rheumatism. S. E. Umreychik. No. 129,555; Feb. 24; v. 271; p. 681.
Remedy to promote the growth of the hair. C. Poetzl. No. 134,766; Sept. 14; v. 278; p. 359.
Remedy, Toothache. The Dentamina Trading Co. No. 134,499; Sept. 7; v. 278; p. 160.
Rennet powder and photographic developers. Fabrique de Produits Chimiques Flora. No. 134,496; Sept. 7; v. 278; p. 159.
Resin. The Barrett Company. No. 129,261; Feb. 10; v. 271; p. 355.
Resins and volatile oils. Ungerer & Company. No. 131,646; May 18; v. 274; p. 609.
Resistance material. Driver-Harris Company. No. 131,739; May 25; v. 274; p. 836.
Respirators, respirator masks and hoods, &c. American La France Fire Engine Co., Inc. No. 134,567; Sept. 14; v. 278; p. 353.
Ribbon in the piece, Floral. J. E. Cannaday. No. 132,103; June 15; v. 275; p. 615.
Ribbons. Carson, Pirie, Scott & Co. No. 129,639; Mar. 9; v. 272; p. 361.
Ribbons. Pelgram & Meyer. No. 134,521; Sept. 7; v. 278; p. 160.
Ribbons and carbon papers, Inked. The Miller-Bryant-Pierce Company. No. 136,538; Nov. 2; v. 280; p. 185.
Ribbons in the piece. Johnson, Cowdin and Co. No. 131,509; May 18; v. 274; p. 604.
Ribbons in the piece. Johnson, Cowdin and Co. No. 132,181; June 15; v. 275; p. 618.
Ribbons in the piece. Johnson, Cowdin and Co. No. 132,423; June 22; v. 275; p. 819.
Ribbons in the piece. Johnson, Cowdin and Co. No. 134,001; Aug. 10; v. 277; p. 388.
Ribbons in the piece. R. & H. Simon Co. Nos. 129,879–80; Mar. 9; v. 272; p. 368.
Ribbons in the piece. R. & H. Simon Co. No. 135,811; Oct. 19; v. 279; p. 532.
Ribbons in the piece, Silk. The Taylor-Friedsam Company. No. 133,059; July 6; v. 276; p. 204.
Ribbons of pile fabrics. A. Wimpfheimer & Bro. No. 129,105; Jan. 20; v. 270; p. 477.
Ribbons, Silk and velvet. Wertheimer Bros. No. 130,442; Apr. 20; v. 273; p. 624.
Ribbons, Silk and velvet. Wertheimer Bros. No. 131,880; May 25; v. 274; p. 835.
Rice. Stuttgart Rice Mill Company. Nos. 129,089–90; Jan. 20; v. 270; p. 476.
Rice. Stuttgart Rice Mill Company. No. 130,421; Apr. 20; v. 273; p. 624.
Rice. Stuttgart Rice Mill Company. No. 131,245; May 4; v. 274; p. 200.
Rice. W. T. Welisch and Co., Inc. Nos. 134,460–2; Aug. 31; v. 277; p. 975.
Rice. W. T. Welisch & Co. Nos. 135,104–158; v. 278; pp. 536–7.
Rice. William S. Scull Company. No. 132,048; June 8; v. 275; p. 416.
Rice-huller screens. The Harrington & King Perforating Co. No. 137,256; Nov. 23; v. 280; p. 794.
Rice, pickles, and olives. Tolerton & Warfield Co. No. 130,424; Apr. 20; v. 273; p. 624.
Rice wafers. Tee-O Mfg. Co. No. 132,833; June 29; v. 275; p. 1020.
Riding-habits, Ladies'. P. Nardi. No. 133,776; Aug. 3; v. 277; p. 176.
Rifles, shotguns, pistols, &c., Military and sporting. The Remington Arms Union Metallic Cartridge Co. No. 133,792; Aug. 3; v. 277; p. 176.
Rifles, Shoulder-. Auto-Ordnance Corporation. No. 128,926; Jan. 20; v. 270; p. 471.
Rim, Collapsible. Baer Collapsible Rim Corporation. No. 130,259; Apr. 20; v. 273; p. 619.
Ring and ring mountings. Stern Brothers & Company. No. 132,255; June 15; v. 275; p. 620.
Rings and brooches, Finger-. E. J. Silverman. No. 131,613; May 18; v. 274; p. 608.
Rings and cluster-mounts for finger-rings, Finger. Eliasoff & Birnbaum. No. 129,962; Mar. 9; v. 272; p. 362.
Rings, brooches, &c. Abel Bros. & Co. No. 130,025; Apr. 6; v. 273; p. 179.
Rings, Finger-. Chas. L. Trout Company. Nos. 131,856–8; May 25; v. 274; p. 836.
Rings, pins, and bracelets, Finger-. Uncas Manufacturing Company. No. 134,110; Aug. 10; v. 277; p. 391.
Rings, scarf-pins, shirt-studs, Finger-. Arch Crown Mfg. Co. No. 129,596; Mar. 9; v. 272; p. 359.
Rivet-sets, and metal-working punches. Mac-It Parts Company. No. 130,209; Apr. 13; v. 273; p. 403.
Rivet-sets, chisel-blanks, reamers, and drills. W. E. Nagle & Son. No. 133,758; Aug. 3; v. 277; p. 175.
Roach-exterminator. E. D. Ray. No. 129,843; Mar. 9; v. 272; p. 367.

Road-drags. Western Boiler Pipe Company. No. 129,098; Jan. 20; v. 270; p. 476.
Road-graders. J. D. Adams & Company. No. 130,597; May 4; v. 274; p. 181.
Robes and dusters, Lap. McIntyre-Burrall Company. No. 137,509; Nov. 23; v. 280; p. 804.
Robes, blankets, and knitted fabric, Automobile. Eaton Rapids Woolen Mills. No. 129,688; Mar. 9; v. 272; p. 362.
Rock-drills. Ingersoll-Rand Company. No. 133,146; July 13; v. 276; p. 402.
Rodent-exterminating preparation. Rodent Exterminator Laboratories. No. 128,839; Jan. 13; v. 270; p. 343.
Roller-covers. Boston Belting Company. No. 137,561; Nov. 30; v. 280; p. 996.
Roller-skins, &c., for looms and textile machinery. John Ormerod & Sons. No. 138,324; Dec. 21; v. 281; p. 566.
Rollers for certain named machines. Ideal Roller Company. No 130,760; May 4; v. 274; p. 186.
Rolls and candles, Chocolate. Jos. B. Murphy Sons. No. 135,495; Oct. 12; v. 279; p. 344.
Rompers and creepers, Children's. Wyman Partridge & Co. No. 136,707; Nov. 2; v. 280; p. 190.
Roof-coating, Thick liquid or plastic. M. M. Casamer. No. 136,769; Nov. 9; v. 280; p. 378.
Roofing. The Beaver Company. No. 137,117; Nov. 23; v. 280; p. 790.
Roofing and covering for pipes. Delaware Electric & Supply Co. No. 131,075; May 4; v. 274; p. 195.
Roofing and sheathing and building paper, Felt. The Barrett Company. No. 136,314; Nov. 2; v. 280; p. 178.
Roofing and shingles. Safepack Mills. Nos. 130,400–1; Apr. 20; v. 273; p. 623.
Roofing and shingles composition. Superior Builders Supply Co. No. 134,097; Aug. 10; v. 277; p. 391.
Roofing and siding, Metal. The Hyndman Roofing Company. No. 136,834; Nov. 9; v. 280; p. 380.
Roofing, Artificially-prepared. Pittsburgh Plate Glass Company. No. 132,035; June 8; v. 275; p. 415.
Roofing, Asphalt. Apco Asphalt Roofing Co. No. 137,748; Nov. 30; v. 280; p. 1003.
Roofing, Asphalt. Waldo Bros. and Bond Company. No. 137,404; Nov. 23; v. 280; p. 798.
Roofing compound, Liquid. M. M. Casamer. No. 137,142; Nov. 23; v. 280; p. 790.
Roofing compounds, Plastic. G. H. Voter. No. 137,401; Nov. 23; v. 280; p. 798.
Roofing, Heat and cold insulating materials, &c. The Philip Carey Manufacturing Company. No. 134,525; Sept. 7; v. 278; p. 160.
Roofing in the form of plates and sheets, Zinc. The American Zinc Products Company. No. 132,879; July 6; v. 276; p. 199.
Roofing materials and shingles, Fireproof. Stowell Manufacturing Co. No. 136,951; Nov. 9; v. 280; p. 383.
Roofing, Prepared. Carpenter-Morton Company. No. 134,480; Sept. 7; v. 278; p. 159.
Roofing, Prepared. Roofbestos Manufacturing Co. No. 131,921; May 25; v. 274; p. 836.
Roofing, Prepared. Shapleigh Hardware Company. No. 129,070; Jan. 20; v. 270; p. 476.
Roofing, Prepared. Wilberite Roofing Company. No. 130,445; Apr. 20; v. 273; p. 624.
Roofing, Prepared asphalt. Ford Roofing Products Company. Nos. 137,599–600; Nov. 30; v. 280; p. 997.
Roofing, Prepared asphalt. Ford Roofing Products Company. Nos. 137,602–3; Nov. 30; v. 280; p. 997.
Roofing, Prepared felt. Lamborn & Co. No. 130,339; Apr. 20; v. 273; p. 621.
Roofing products. New England Felt Roofing Works. No.130, 375; Apr. 20; v. 273; p. 622.
Roofing, roofing tiles, and cement, shingles, Prepared sheet-. The Beaver Company. No. 137,114; Nov. 23; v. 280; p. 790.
Roofing, shingles, &c., Prepared sheet-. The Beaver Company. Nos. 132,626–7; June 29; v. 275; p. 1013.
Roofing-tile machines, Concrete-. Walter Concrete Machinery Co. No. 137,406; Nov. 23; v. 280; p. 798.
Roofing, Tin. G. A. Fernley. No. 137,220; Nov. 23; v. 280; p. 793.
Roofing, wall-board, and building-papers, Composition. Standard Paint Company. No. 132,051; June 8; v. 275; p. 416.
Roofings and shingles, Slate-surfaced. Asphalt Manufacturing Company. No. 130,628; May 4; v. 274; p. 182.
Roofings, Prepared. A. B. Wainwright Company. No. 130,433; Apr. 20; v. 273; p. 624.
Roofings, Steel fire-resisting and surface. The Farm Equipment Co. No. 134,642; Sept. 14; v. 278; p. 355.
Root-beer. Kamm & Schellinger Co. No. 135,717; Oct. 19; v. 279; p. 529.
Root-beer. The Omar Co. No. 136,884; Nov. 9; v. 280; p. 381.
Root-beer and the syrup therefor. The Cleveland Fruit Juice Company. No. 136,778; Nov. 9; v. 280; p. 378.
Root-beer, birch-beer, ginger-ale, lemon-soda, &c. Chester Beverage Co. No. 138,227; Dec. 21; v. 281; p. 563.
Root-beer extract, orange, wild-cherry, and grape phosphates. Globe Grocery Stores. No. 132,153; June 15; v. 275; p. 617.
Rope. Tubbs Cordage Company. No. 130,130; Apr. 6; v. 273; p. 182.

Digitized by Google

Rope, Braided. Tate Manufacturing Company. No. 133,058; July 6; v. 276; p. 204.
Rope-clamp. R. Loos. No. 131,173; May 4; v. 274; p 198.
Rope, cord, twine. American Manufacturing Company. No. 130,608; May 4; v. 274; p. 181.
Rope, cord, twine, and binder-twine. International Harvester Company. No. 130,075; Apr. 6; v. 273; p. 180.
Rope, cord, twine, and binder-twine. International Harvester Company. No. 132,974; July 6; v. 276; p. 202.
Rope, cord, twine, and binder-twine. International Harvester Company. No. 135,709; Oct. 19; v. 279; p. 529.
Rope, Manila. Whitlock Cordage Co. No. 130,139; Apr 6; v. 273; p. 182.
Rope of vegetable fiber. Columbian Rope Company. No. 129,652; Mar. 9; v. 272; p. 361.
Rope, Steel, wire, and galvanized-wire. Macomber & Whyte Rope Company. No. 129,992; Mar. 16; v. 272; p. 539.
Rope, Wire. The Firth Company. No. 137,025; Nov. 16; v. 280; p. 583.
Rope yarns, cotton twines and cordage. Eagle Cotton Mills Co. Nos. 133,638–9; Aug. 3; v. 277; p. 171.
Ropes and twines, Fiber. Hooven & Allison Company. Nos. 130,752–5; May 4; v. 274; p. 185.
Rosin. Bogalusa Turpentine Company. No. 130,464; Apr. 27; v. 273; p. 801.
Rosin. Rosin & Turpentine Export Company. Nos. 135,313–24; Sept. 28; v. 278; pp. 704–5.
Rouge. G. M. Brobard. No. 128,643; Jan. 13; v. 270; p. 336.
Rouge, Face-. N. L. Shireman. No. 128,854; Jan. 13; v. 270; p. 343.
Rouge, face-powder, &c., Lip-. B. M. Mason. No. 128,782; Jan. 13; v. 270; p. 341.
Rowlock-sockets. J. B. Church. No. 135,636; Oct. 19; v. 279; p. 526.
Rubber and canvas automobile-casings. Boone Tire & Rubber Company. No. 133,587; Aug. 3; v. 277; p. 170.
Rubber and composition soles and heels. Marathon Tire & Rubber Co. No. 130,543; Apr. 27; v. 273; p. 804.
Rubber and fabric and rubber gloves and bathing-caps. United States Rubber Company. No. 131,251; May 4; v. 274; p. 200.
Rubber and leather boots and shoes. American-National Shoe & Leather Corp. Nos. 129,321–2; Feb. 17; v. 271; p. 507.
Rubber and leather boots and shoes. American-National Shoe & Leather Corporation. No. 133,564; Aug. 3; v. 277; p. 169.
Rubber and rubber-composition heels. Panther Rubber Manufacturing Company. No. 132,477; June 22; v. 275; p. 821.
Rubber baby-pants and diaper-covers. The Miller Rubber Company. No. 137,660; Nov. 30; v. 280; p. 999.
Rubber battery-jars. The B. F. Goodrich Company. No. 133,681; Aug. 3; v. 277; p. 173.
Rubber battery-jars. The B. F. Goodrich Company. Nos. 133,976–7; Aug. 10; v. 277; p. 387.
Rubber belting. New York Belting and Packing Company. No. 133,766; Aug. 3; v. 277; p. 175.
Rubber belting. W. T. Shackley & Son Co. No. 129,871; Mar. 9; v. 272; p. 368.
Rubber boot and shoe heels. United Lace & Braid Manufacturing Company. No. 133,533; July 27; v. 276; p. 772.
Rubber boots. George F. Dittmann Boot & Shoe Co. No. 137,197; Nov. 23; v. 280; p. 792.
Rubber boots and shoes. Bourn Rubber Co. No. 135,613; Oct. 19; v. 279; p. 526.
Rubber boots or shoes. Converse Rubber Shoe Company. No. 131,728; May 25; v. 274; p. 830.
Rubber, Canned adhesive. F. F. Brinker. No. 134,222; Aug. 24; v. 277; p. 777.
Rubber cements, tread-filler, tire-tape, &c. St. Louis Rubber Cement Co. No. 131,846; May 25; v. 274; p. 834.
Rubber composition soles, half-soles, and heels. The Marathon Tire & Rubber Co. Nos. 130,824–5; May 4; v. 274; p. 188.
Rubber-compound floor-covering. United States Rubber Company. No. 133,856; Aug. 3; v. 277; p. 178.
Rubber elevator-belts reinforced with fabric. The B. F. Goodrich Company. No. 134,661; Sept. 14; v. 278; p. 356.
Rubber erasers. Joseph Dixon Crucible Company. Nos. 134,928–9; Sept. 21; v. 278; p. 530.
Rubber goods, Mechanical. Boston Belting Corporation. No. 138,220; Dec. 21; v. 281; p. 563.
Rubber heels. Barva Heel & Tire Factory Inc. No. 131,034; May 4; v. 274; p. 194.
Rubber heels. T. M. Evans. No. 132,138; June 15; v. 275; p. 617.
Rubber heels. Granger Vacuum Rubber Heel Co. No. 129,464; Feb. 24; v. 271; p. 678.
Rubber heels. The Lorain Rubber Heel Company. No. 135,270; Sept. 28; v. 278; p. 703.
Rubber heels. The Squeegee Heel Company. Nos. 136,640–1; Nov. 2; v. 280; p. 188.
Rubber heels and footwear. T. A. Farrell. No. 137,218; Nov. 23; v. 280; p. 793.
Rubber heels and soles. E. E. Taylor Company. No. 128,537; Jan. 6; v. 270; p. 185.
Rubber heels for boots and shoes. Plymouth Rubber Company. No. 130,867; May 4; v. 274; p. 189.
Rubber heels for boots and shoes. Plymouth Rubber Company. No. 132,487; June 22; v. 275; p. 821.
Rubber hose. The B. F. Goodrich Company. No. 136,441; Nov. 2; v. 280; p. 182.
Rubber hose with metal lining. Metal Hose & Tubing Co. No. 136,098; Oct. 26; v. 279; p. 721.
Rubber hose with metal lining. Metal Hose & Tubing Co. No. 138,065; Dec. 14; v. 281; p. 399.
Rubber knife, fork, and razor handles and pumps, Hard-. American Hard Rubber Company. No. 137,531; Nov. 30; v. 280; p. 995.
Rubber material, Composition. The Marathon Tire and Rubber Co. No. 132,741; June 29; v. 275; p. 1017.
Rubber mats. United States Rubber Company. No. 135,837; Oct. 19; v. 279; p. 533.
Rubber mats and mattings. United States Rubber Company. No. 129,235; Jan. 27; v. 270; p. 617.
Rubber merchandise, Manufactured. General Rubber Goods Company. No. 134,954; Sept. 21; v. 278; p. 531.
Rubber offset-blankets. Vulcan Proofing Company. No. 128,892; Jan. 13; v. 270; p. 344.
Rubber or composition soles, heels, and taps. Fiber Products Co. No. 132,142; June 15; v. 275; p. 617.
Rubber or fiber soles and heels. Pioneer Products. No 137,369; Nov. 23; v. 280; p. 797.
Rubber or rubber-composition erasers. E. Faber. No. 137,217; Nov. 23; v. 280; p. 793.
Rubber patches. Stearns Rubber Products Company. No. 137,709; Nov. 30; v. 280; p. 1000.
Rubber pipe, elbows, T's, &c., Hard. American Hard Rubber Company. No. 137,924; Dec. 14; v. 281; p. 395.
Rubber rods, sheets, and tubes, Hard-. American Hard Rubber Company. No. 137,091; Nov. 23; v. 280; p. 789.
Rubber sheeting and blankets. Archer Rubber Co. Nos. 135,386–7; Oct. 12; v. 279; p. 341.
Rubber sheeting in the piece or roll. H. L. Kaufmann. No. 137,633; Nov. 30; v. 280; p. 998.
Rubber sheets, aprons, belts, &c., Sanitary. I. B. Kleinert Rubber Company. No. 136,843; Nov. 9; v. 280; p. 380.
Rubber shoe-heels. J. Pietzuch. No. 128,484; Jan. 6; v. 270; p. 183.
Rubber soles and heels. Foster Rubber Company. No. 132,375; June 22; v. 275; p. 818.
Rubber soles and heels. Kleistone Rubber Co. Nos. 138,276–7; Dec. 21; v. 281; p. 565.
Rubber soles and heels. Mayflower Rubber Works Company. No. 128,783; Jan. 13; v. 270; p. 341.
Rubber soles and heels. Mayflower Rubber Works Company. No. 129,299; Feb. 10; v. 271; p. 356.
Rubber-soled shoes. Sears, Roebuck and Co. No. 133,316; July 20; v. 276; p. 592.
Rubber sponges. The Miller Rubber Co. No. 132,206; June 15; v. 275; p. 619.
Rubber stamps and stencils. A. C. Gibson Company Inc. No. 130,303; Apr. 20; v. 273; p. 620.
Rubber stamps, hand stamping and marking devices. Century Rubber Stamp Works. No. 131,427; May 18; v. 274; p. 602.
Rubber tire casings and tubes, belting, &c. Achilles Rubber and Tire Company, Inc. No. 133,554; Aug. 3; v. 277; p. 169.
Rubber toy balloons. Western Reserve Rubber Co. No. 130,592; Apr. 27; v. 273; p. 805.
Rubber water-bags and bottles. The Miller Rubber Company. No. 133,004; July 6; v. 276; p. 203.
Rubbers, Jar-. Walker, Matteson Company. No. 134,842; Sept. 14; v. 278; p. 361.
Rubberized cloth and blankets made therefrom. United States Rubber Company. No. 137,889; Dec. 7; v. 281; p. 199.
Rug, Woolen-felt. E. Samuels. No. 136,178; Oct. 26; v. 279; p. 724.
Rugs. Empire Carpet Co. No. 135,982; Oct. 26; v. 279; p. 718.
Rugs. Klearflax Linen Rug Company. No. 137,505; Nov. 23; v. 280; p. 803.
Rugs, Rag and grass. M. Feldman. No. 133,653; Aug. 3; v. 277; p. 172.
Rugs, Wool and cotton. Empire Carpet Co. No. 135,664; Oct. 19; v. 279; p. 527.
Rugs, Woven textile. Sanford Mills. No. 135,527; Oct. 12; v. 279; p. 345.
Rulers for scholastic purposes, Guide-. T. Finlay. No. 128,378; Jan. 6; v. 270; p. 180.
Rum. W. H. Chaplin & Co. No. 136,773; Nov. 9; v. 280; p. 378.
Running-boards, mats for automobile running-boards and floors, &c. The C. Spiro Mfg. Co. No. 133,514; July 27; v. 276; p. 772.
Rust-preventive compound. Wilson Remover Company. No. 138,371; Dec. 21; v. 281; p. 567.
Rust-preventive, Oil. E. F. Houghton & Co. No. 132,171; June 15; v. 275; p. 618.
Rust-remover. J. M. Darr Company. No. 135,966; Oct. 26; v. 279; p. 717.
Rust-retarding oil compositions and lubricating-grease for ferrous materials. H. C. Wilson. No. 138,163; Dec. 14; v. 281; p. 402.
Sad-irons, laundry-washing machines, and wringers. Wm. Endus Manufacturing Company. No. 128,372; Jan. 6; v. 270; p. 180.
Saffron. H. Schoenfeld. No. 134,797; Sept. 14; v. 278; p. 360.

Digitized by Google

Sails and truck and auto covers, Finished. John Curtain Corp. No. 129,143; Jan. 27; v. 270; p. 614.
Sal-ammoniac and soldering fluid. Special Chemicals Company. No. 132,539; June 22; v. 275; p. 823.
Salad-dressing. M. Steinberg. No. 132,254; June 15; v. 275; p. 260.
Salad-dressing. R. C. Williams & Company. No. 134,139; Aug. 10; v. 277; p. 392.
Salad-dressing, peanut-butter, and salted peanuts. C. F. Blanke Tea & Coffee Company. No. 133,582; Aug. 3; v. 277; p. 170.
Sales-counters, display racks and cabinets, &c. Bake-Rite Mfg. Company. No. 134,583; Sept. 14; v. 278; p. 353.
Saline laxatives, &c. Bristol-Myers Company. No. 129,433; Feb. 24; v. 271; p. 677.
Salmon, Canned. Deep Sea Salmon Company. No. 129,445; Feb. 24; v. 271; p. 678.
Salmon-eggs, Preserved. A. F. Oppelt. No. 128,811; Jan. 13; v. 270; p. 342.
Salt. Crystaline Salt Company. No. 131,732; May 25; v. 274; p. 830.
Salt. Alex. Kerr Bros. & Co. Nos. 138,274–5; Dec. 21; v. 281; p. 565.
Salt. Remington Salt Company. No. 135,874; Oct. 19; v. 279; p. 536.
Salt brick. Edgerton Salt Brick Company. No. 128,679; Jan. 13; v. 270; p. 338.
Salt bricks for stock. Diamond Salt Brick Co. No. 129,677; Mar. 9; v. 272; p. 862.
Salt, Table-. Bates and Abbott. No. 129,327; Feb. 17; v. 271; p. 507.
Salt, Table-. International Salt Co. of New York. No. 134,979; Sept. 21; v. 278; p. 532.
Salt, Table-. Walker-Matteson Company. No. 133,540; July 27; v. 276; p. 772.
Salts, Effervescent. The Abbott Laboratories. No. 138,410; Dec. 28; v. 281; p. 781.
Salve. J. Abramson. No. 138,411; Dec. 28; v. 281; p. 781.
Salve. G. T. Carner. No. 128,954; Jan. 20; v. 270; p. 472.
Salve. E. H. Kettleman. No. 128,748; Jan. 13; v. 270; p. 340.
Salve. E. F. Russ. No. 138,338; Dec. 21; v. 281; p. 566.
Salve. W. C. Sunderland. No. 134,543; Sept. 7; v. 278; p. 161.
Salve. J. T. Tucker. No. 131,642; May 18; v. 274; p. 609.
Salve. Vico Chemical Co. No. 129,559; Feb. 24; v. 271; p. 681.
Salve. P. Zatyko. No. 131,683; May 18; v. 274; p. 610.
Salve and a liniment. A. C. Chapa. No. 134,609; Sept. 14; v. 278; p. 354.
Salve and liniment. A. B. Richards Medicine Co. No. 128,833; Jan. 13; v. 270; p. 342.
Salve and ointment. W. U. Herbert. No. 128,402; Jan. 6; v. 270; p. 180.
Salves and ointments for treatment of the human skin. P. Fuchs. No. 134,363; Aug. 31; v. 277; p. 972.
Salve, Cold, croup, and pneumonia. Hunt Chemical Company. No. 134,686; Sept. 14; v. 278; p. 356.
Salve for blood-poisoning, boils, cults, &c. The Miracle Salve Company. No. 136,543; Nov. 2; v. 280; p. 185.
Salve for boils, carbuncles, old sores, poisonous bites, eczema, &c. J. M. Beck. No. 136,316; Nov. 2; v. 280; p. 592.
Salve for bruises, pimples, eczema, and all skin diseases. T. Safronik. No. 134,789; Sept. 14; v. 278; p. 359.
Salve for certain named ailments. Patton-Jones. No. 132,776; June 29; v. 275; p. 1018.
Salve for croup, &c. Draper Carter Drug Co. No. 129,680; Mar. 9; v. 272; p. 862.
Salve for eczema. J. Hampton. No. 131,482; May 18; v. 274; p. 604.
Salve for influenza, asthma, &c. Brame Drug Company. No. 135,200; Sept. 28; v. 278; p. 701.
Salve for internal and external inflammation. C. A. Gilbert & Co. No. 129,286; Feb. 10; v. 271; p. 356.
Salve for piles. F. G. McCoy. No. 136,519; Nov. 2; v. 280; p. 184.
Salve for scalp maladies. Di-Testa Co. No. 131,299; May 11; v. 274; p. 399.
Salve for sores, cuts, &c. E. W. Wall. No. 136,247; Oct. 26; v. 279; p. 726.
Salve for sweaty feet. Filletin & Chochkoff Company. No. 128,975; Jan. 20; v. 270; p. 473.
Salve for the feet. L. Frolong. No. 131,465; May 18; v. 274; p. 603.
Salve for the treatment of all skin diseases. M. Anderson. No. 134,884; Sept. 21; v. 278; p. 529.
Salve for the treatment of rheumatism, &c. F. J. Witt. No. 129,566; Feb. 24; v. 271; p. 682.
Salve for the treatment of severe colds, pneumonia, &c. J. W. Rouda, (now by change of name J. W. Rowe.) No. 136,919; Nov. 19; v. 280; p. 382.
Salve for treatment of certain named diseases and affections. E. J. Albrecht. No. 132,279; June 22; v. 275; p. 815.
Salve for use in the treatment of the scalp. A. Sims. No. 132,808; June 29; v. 275; p. 1019.
Salve for wounds, &c. V. Peppas. No. 131,573; May 18; v. 274; p. 607.
Salve, Healing-. A. Tramontin. No. 131,640; May 18; v. 274; p. 609.
Salve, Medicated. The Orium Company. No. 136,507; Nov. 2; v. 280; p. 186.
Salve, Medicinal. C. C. Goddard. No. 137,240; Nov. 23; v. 280; p. 793.
Salve, Medicinal. M. M. Parzinger. No. 131,816; May 25; v. 274; p. 833.
Salve, Menthol. Davis & Lawrence Company. No. 132,347; June 22; v. 275; p. 817.
Salve or ointment, for catarrh, hay-fever, burns, &c. S. D. Clark. No. 134,485; Sept. 7; v. 278; p. 159.
Salve or ointment, Medicinal. E. W. Vacher, Inc. No. 138,552; Dec. 28; v. 281; p. 787.
Salve, Stainless croup and pneumonia. Hunt Chemical Company. No. 134,685; Sept. 14; v. 278; p. 356.
Salve used in the treatment of burns, boils, &c. J. F. Tete. No. 132,561; June 22; v. 275; p. 824.
Salve used in the treatment of pneumonia and influenza. Thornton-Thomas. No. 137,395; Nov. 23; v. 280; p. 798.
Salves. C. F. Karnofsky. No. 135,718; Oct. 19; v. 279; p. 529.
Salves and ointments. A. Shifrin. No. 131,369; May 11; v. 274; p. 402.
Salves and ointments. J. Tulley. No. 135,830; Oct. 19; v. 279; p. 532.
Salves and ointments. J. F. White. No. 129,563; Feb. 24; v. 271; p. 681.
Sand-boxes, Knockdown. H. D. Tucker. No. 133,530; July 27; v. 276; p. 772.
Sandals, Metal. Roe Metal Sandal Company. No. 138,336; Dec. 21; v. 281; p. 566.
Sandals, shoes, and slippers made of leather, &c. Wooleather, Inc. No. 138,373; Dec. 21; v. 281; p. 568.
Sanitary aerating and protecting device. R. I. Gill. No. 131,083; June 8; v. 275; p. 414.
Sanitary goods. M. S. George. No. 133,131; July 13; v. 276; p. 402.
Sanitary napkins. Lewis Manufacturing Company. No. 130,795; May 4; v. 274; p. 187.
Sanitary napkins. Solace Comfort Service Corporation. No. 130,926; May 4; v. 274; p. 191.
Saponaceous preparation for the complexion. C. W. Albright. No. 131,951; June 8; v. 275; p. 413.
Sardines. Castine Bay Company. No. 128,324; Jan. 6; v. 270; p. 178.
Sardines. Globe Canning Co. No. 132,389; June 22; v. 275; p. 818.
Sardines. Lawrence Canning Co. No. 134,710; Sept. 14; v. 278; p. 357.
Sardines. The Oversea Export Co. No. 134,051; Aug. 10; v. 277; p. 390.
Sardines. Portland Products Company. Nos. 132,051–2; Nov. 16; v. 280; p. 584.
Sardines. Rueppel-Jones Importing Company. No. 130,568; Apr. 27; v. 278; p. 804.
Sardines. Rueppel-Jones Importing Company. No. 135,791; Oct. 19; v. 279; p. 531.
Sardines, fish branded as sardines, and small fish. W. S. Nichols. No. 136,122; Oct. 26; v. 279; p. 722.
Sarsaparilla, ginger-ale, lemon-soda. Adam Scheidt Beverage Co. No. 128,845; Jan. 13; v. 270; p. 343.
Sateen piece goods for lingerie, Warp. Trippe, Barker & Co. No. 136,668; Nov. 2; v. 280; p. 189.
Satin in the piece. H. R. Mallinson & Co. No. 136,087; Oct. 26; v. 279; p. 721.
Sauce. G. Farquhar. No. 129,354; Feb. 17; v. 271; p. 508.
Sauce. Towle Sons, Inc. No. 135,543; Oct. 12; v. 279; p. 346.
Sauce, spaghetti, and creole gumbo. J. B. Grivas. No. 129,288; Feb. 10; v. 271; p. 356.
Sauces for seasoning foods. S. Nagano. No. 134,038; Aug. 10; v. 277; p. 389.
Sausage, Fresh. C. Hollenbach. No. 130,317; Apr. 20; v. 273; p. 621.
Saw-frames and sawing outfits, certain named cutters, &c. The Hartman Company. No. 131,485; May 18; v. 274; p. 604.
Saw-sets. N. O. Hedman. No. 134,169; Aug. 17; v. 277; p. 581.
Saws. Henry Disston & Sons. No. 130,484; Apr. 27; v. 273; p. 802.
Saws. The Oldham New York Saw Works. No. 136,132; Oct. 26; v. 279; p. 722.
Saws. Simonds Manufacturing Company. No. 130,016; Mar. 23; v. 272; p. 731.
Saws. Simonds Manufacturing Company. No. 130,019; May 4; v. 274; p. 190.
Saws. Simonds Manufacturing Company. No. 132,245; June 15; v. 275; p. 620.
Saws. Simonds Manufacturing Company. No. 132,528; June 22; v. 275; p. 823.
Saws. Simonds Manufacturing Company. No. 136,933; Nov. 9; v. 280; p. 383.
Saws. Simonds Manufacturing Company. No. 137,065; Nov. 16; v. 280; p. 584.
Saws and machine, cane, &c., knives. Sheffield Works, Inc. No. 133,182; July 13; v. 276; p. 403.
Saws, Circular, band, hand, and crosscut. Oldham New York Saw Works. No. 137,357; Nov. 23; v. 280; p. 797.
Saws, Drag-. W. H. Worden Company. No. 134,205; Aug. 17; v. 277; p. 582.

Digitized by Google

Saws for wood, metal, &c., band-saws, machine-knives, &c., Circular. E. C. Atkins & Company. No. 137,541; Nov. 30; v. 280; p. 995.
Saws, Power drag-. R. M. Wade & Co. No. 129,095; Jan. 20; v. 270; p. 476.
Saws, saw-frames, metal-cutting band-saw machines. Napier Saw Works. No. 132,211; June 15; v. 275; p. 619.
Scalds and burns, Liquid for. L. Thomas. No. 128,541; Jan. 6; v. 270; p. 185.
Scales for weighing. Simmons Hardware Company. No. 129,075; Jan. 20; v. 270; p. 476.
Scales, measuring-pumps, Computing. W. C. Pritchard. No. 133,303; July 20; v. 276; p. 592.
Scales, Weighing-. Detroit Automatic Scale Company. No. 128,364; Jan. 6; v. 270; p. 179.
Scales, Weighing-. Mason, Davis & Company. No. 129,183; Jan. 27; v. 270; p. 615.
Scales, Weighing-. Mason, Davis & Company. No. 130,819; May 4; v. 274; p. 187.
Scales, Weighing-. Mason, Davis & Company. No. 134,255; Aug. 24; v. 277; p. 778.
Scalp and mange remedy. G. Paquin. No. 138,495; Dec. 28; v. 281; p. 783.
Scalp, face, and skin treatment liquids, pile-remedy ointment. J. E. Loudenslayer. No. 133,459; July 27; v. 276; p. 770.
Scalp preparation and hair-grower. B. Williams. No 129,103; Jan. 20; v. 270; p. 477.
Scissors and shears. The Acme Shear Company. Nos. 133,555–6; Aug. 3; v. 277; p. 169.
Scissors and shears. The Acme Shear Company. No. 137,489–90; Nov. 23; v. 280; p. 802.
Scissors, knives, razors, shears. Yorkshire Steel Co. No. 137,904; Dec. 7; v. 281; p. 199.
Scoops, Sink-. S. Berger. No. 134,153; Aug. 17; v. 277; p. 581.
Scouring preparation. E. V. Dogan. No. 137,584; Nov. 30; v. 280; p. 997.
Scrapers, grading-plows, road-graders, Wheel-. Smith & Sons Manufacturing Company. No. 137,862; Dec. 7; v. 281; p. 198.
Screen-wire cloth. American Wire Fabrics Company. No. 135,588; Oct. 19; v. 279; p. 525.
Screens for windows, &c., Metal roll-. C. H. Jackson. No. 129,171; Jan. 27; v. 270; p. 615.
Screw and chucking machines. The New Britain Machine Company. No. 133,171; July 13; v. 276; p. 403.
Screws, Anchor-sockets for. Stine Screw Holes Company. No. 130,420; Apr 20; v. 273; p. 624.
Screws, bolts, nuts, &c. Reed & Prince Manufacturing Company. No. 130,561; Apr. 27; v. 273; p. 804.
Scrim. Boutwell Fairclough & Gold, now by change of name Fairclough & Gold. No. 135,400: Oct. 12; v. 279; p. 341.
Searchlights, Electric. Kay Bee Manufacturing Company. No. 136,053; Oct. 26; v. 279; p. 720.
Seasonings for sausage. California Casing Co. No. 136,708; Nov. 9; v. 280; p. 378.
Seat-pads, Ventilating. E. J. Faber. No. 133,242; July 20; v. 276; p. 590.
Seats known as bleachers, Portable. Leavitt Mfg. Co. No. 133,450; July 27; v. 276; p. 770.
Sedative diuretic compound. Sharp & Dohme. No. 137,695; Nov. 30; v. 280; p. 1000.
Sedatives and remedial preparations. Covana Mfg. Co. No. 129,444; Feb. 24; v 271; p. 678.
Seed-corn. O. H. Will & Company. No. 137,011; Nov. 9; v. 280; p. 388.
Seed, Cotton-. A. D. Mebane. No. 137,656; Nov. 30; v. 280; p. 999.
Seed, Garden-. Crabbs Reynolds Taylor Co. No. 132,122; June 15; v. 275; p. 616.
Seed, Grain-. H. K. Cochran Company. No. 130,282; Apr. 20; v. 273; p. 620.
Seed, Lawn-grass. Stumpp & Walter Co. No. 138,405; Dec. 21; v. 281; p. 571.
Seed-planting attachment for hoes, &c. W. D. McLaughlin. No. 131,544; May 18; v. 274; p. 606.
Seed-preservative. E. M. Thompson. No. 136,663; Nov. 2; v. 280; p. 188.
Seed, Tobacco-. W. S. Judy. No. 134,696; Sept. 14; v. 278; p. 357.
Seeds. American Mutual Seed Company. No. 129,113; Jan. 27; v. 270; p. 613.
Seeds. C. S. Osburn & Co. No. 132,474; June 22; v. 275; p. 821.
Seeds. Stanford Seed Co. No. 134,820; Sept. 14; v. 278; p. 360.
Seeds, Agricultural. Randall-McLoughlin Co. No. 134,777; Sept. 14; v. 278; p. 359.
Seeds, Agricultural, vegetable, and flower. R. Nicholson. No. 137,350; Nov. 23; v. 280; p. 797.
Seeds, Corn, grass, and field. H. E. Conklin. No. 130,684; May 4; v. 274; p. 183.
Seeds, cut flowers, plants, &c. Duluth Floral Company. No. 132,132; June 15; v. 275; p. 616.
Seeds, Field-. Atlantic Seed Co. No. 129,260; Feb. 10; v. 271; p. 355.
Seeds, Field-. Hardin, Hamilton & Lewman. No. 130,066; Apr. 6; v. 273; p. 180.
Seeds, Field-. Southwest Flour & Feed Company. No. 134,439; Aug. 31; v. 277; p. 974.
Seeds, Field-. N. Wertheimer & Sons. No. 130,441; Apr. 20; v. 273; p. 624.
Seeds, Field-. N. Wertheimer & Sons. No. 132,859; June 29; v. 275; p. 1020.
Seeds, Field and garden. T. H. Cochrane Co. No. 130,165; Apr. 13; v. 273; p. 401.
Seeds, Field and grass. Kellogg Seed Co. No. 131,150; May 4; v. 274; p. 197.
Seeds, Field, garden, and flower. A. R. Bruns. No. 130,623; May 4; v. 274; p. 182.
Seeds, Flower and sweet-pea. Oscar H. Will & Co. No. 133,093; July 6; v. 276; p. 205.
Seeds, Flower and vegetable. S. A. Rogers Co. No. 136,173; Oct. 26; v. 279; p. 724.
Seeds, Flower, field, and vegetable. Stokes Seed Farms Company. No. 133,519; July 27; v. 276; p. 772.
Seeds, Garden, field, and flower. John A. Salzer Seed Co. No. 134,792; Sept. 14; v. 278; p. 360.
Seeds, Garden, vegetable and field. Lewis Implement and Seed Company. No. 130,202; Apr. 13; v. 273; p. 403.
Seeds, Grass and field. Continental Seed Company. No. 132,917; July 6; v. 276; p. 200.
Seeds, Grass and lawn, &c., lawn-grass, &c. Whitney-Eckstein Seed Co. No. 136,259; Oct. 26; v. 279; p. 726.
Seeds, Lawn and grass. Oscar H. Will & Co. No. 133,094; July 6; v. 276; p. 205.
Seeds, Oat-. Pittman & Harrison Company. No. 132,034; June 8; v. 275; p. 415.
Seismographs, Auricular. Globe Ear-Phone Company. No. 131,311; May 11; v. 274; p. 400.
Semitrailers. King Trailer Company. No. 132,980; July 6; v. 276; p. 202.
Separators, Cream-. The Vega Separator Company. No. 137,736; Nov. 30; v. 280; p. 1001.
Separators, insulators, or partitions used in lighting and storage batteries. W. G. Lee. No. 138,051; Dec. 14; v. 281; p. 399.
Serges, broadcloth, worsteds, &c. Henry M. Huebshman & Bro. No. 129,748; Mar. 9; v. 272; p. 364.
Serges, flannels, &c. Kent Manufacturing Company. No. 129,480; Feb. 24; v. 271; p. 679.
Sewing-machines. Free Sewing Machine Company. No. 135,442; Oct. 12; v. 279; p. 343.
Sewing-machines and attachments therefor. Simmons Hardware Company. No. 138,346; Dec. 21; v. 281; p. 567.
Sewing-machines and parts thereof. Union Special Machine Company. No. 133,332; July 20; v. 276; p. 593.
Shade-cloth. Talbert-Whitmore Company. No. 130,423; Apr. 20; v. 273; p. 624.
Shades and reflectors for lighting-fixtures, Metallic. L. Plaut & Co. No. 132,036; June 8; v. 275; p. 415.
Shafting, Flexible. N. A. Strand & Co. No. 133,835; Aug. 3; v. 277; p. 178.
Shampoo. N. Lewis. No. 137,310; Nov. 23; v. 280; p. 795.
Shampoo. E. H. Williams. No. 129,564; Feb. 24; v. 271; p. 682.
Shampoo and hair-tonic. E. Ogur. No. 131,567; May 18; v. 274; p. 606.
Shampoo, Cocoa-palm. H. H. Mather. No. 129,026; Jan. 20; v. 270; p. 474.
Shampoo, hair pomade, powders, &c. Kashmir Chemical Company. No. 129,478; Feb. 24; v. 271; p. 679.
Shampoos. Saberton Manufacturing Co. No. 129,861; Mar. 9; v. 272; p. 368.
Shampoos, Liquid and paste. Tipp Whip Company. No. 131,853; May 25; v. 274; p. 834.
Shampoos, Liquid and paste. The Tipp Whip Company. No. 132,836; June 29; v. 275; p. 1020.
Shaving-cream. E. W. Burke. No. 138,428; Dec. 28; v. 281; p. 781.
Shaving-cream. Trade Laboratories, Inc. No. 136,223; Oct. 26; v. 279; p. 725.
Shaving-cream. Vantine, A. A., & Co. No. 136,236; Oct. 26; v. 279; p. 725.
Shaving-cream, shampoo and antiseptic soaps. Blumauer-Frank Drug Company. No. 137,016; Nov. 16; v. 280; p. 583.
Shears or scissors, Electric. Sperry Gyroscope Company. No. 132,540; June 22; v. 275; p. 823.
Sheepskins, skivers, roans, patent-leather. C. H. Kemper. No. 128,414; Jan. 6; v. 270; p. 181.
Sheet-metal fasteners for corsets, rubber button-bases, &c. Kabo Corset Company. No. 130,195; Apr. 13; v. 273; p. 402.
Sheet-metal-shaping machines. G. M. Kennedy. No. 129,008; Jan. 20; v. 270; p. 474.
Sheets and pillow-cases. The Fair. No. 133,650; Aug. 3; v. 277; p. 172.
Sheets and pillow-cases. Naumkeag Steam Cotton Co. No. 130,370; Apr. 20; v. 273; p. 622.
Sheets for keeping funeral-records, Partially-printed C. H. J. Truman. No. 128,547; Jan. 6; v. 270; p. 185.
Sheets, pillow and bolster cases. Naumkeag Steam Cotton Co. No. 130,369; Apr. 20; v. 273; p. 622.
Sheets, plates, and castings made from metal alloys. Supplee-Biddle Hardware Company. Nos. 137,873–8; Dec. 7; v. 281; pp. 198–9.
Sheeting. Bencoe Importing and Exporting Co. No. 132,298; June 22; v. 275; p. 815.
Sheeting, Brown. Watts, Stebbins & Co. No. 129,889; Mar. 9; v. 272; p. 368.

Digitized by Google

Alphabetical list of trade-marks—Continued.

Sheeting, Hospital-. Omo Mfg. Co. Nos. 128,808–9; Jan. 13; v. 270; p. 342.
Sheetings and drillings, Gray. American Trading Company. Nos. 129,592–3; v. 272; p. 359.
Sheetings, Cotton. G. A. Georgopulo & Co. No. 129,724; Mar. 9; v. 272; p. 368.
Shellac, Gum-. Automotive Supply Company. No. 135,194; Sept. 28; v. 278; p. 701.
Shellacs, lacquers, and prepared shellac substitutes. Charles McAdam Co. No. 137,320; Nov. 23; v. 280; p. 796.
Sherry. W. H. Chaplin & Company. No. 134,484; Sept. 7; v. 278; p. 169.
Shields, Dress-. J. Stein. No. 136,651; Nov. 2; v. 280; p. 188.
Shingles. Chinook Lumber & Shingle Co. No. 128,650; Jan. 13; v. 270; p. 337.
Shingles. Chinook Lumber & Shingle Co. No. 129,272; Feb. 10; v. 271; p. 355.
Shingles. Chinook Lumber & Shingle Co. No. 130,010; Mar. 23; v. 272; p. 731.
Shingles. Chinook Lumber & Shingle Co. No. 133,227; July 20; v. 276; p. 590.
Shingles. Howell, Field & Goddard. No. 131,909; May 25; v. 274; p. 836.
Shingles and prepared asphalt roofing. Ford Roofing Products Company. No. 137,601; Nov. 30; v. 280; p. 997.
Shingles and prepared asphalt roofing. Ford Roofing Products Company. No. 137,604; Nov. 30; v. 280; p. 997.
Shingles, laths, and oak flooring. John B. Ransom & Company. No. 135,513; Oct. 12; v. 279; p. 345.
Shingles, Roofing-. Stowell Manufacturing Co. No. 136,952; Nov. 9; v. 280; p. 383.
Shirt-waists, Ladies'. W. J. Ball. No. 129,602; Mar. 9; v. 272; p. 360.
Shirt-waists, Ladies'. The L. N. Gross Co. No. 129,359; Feb. 17; v. 271; p. 508.
Shirt-waists, Ladies'. La Rose Garment Company. No. 133,448; July 27; v. 276; p. 769.
Shirts. Carson Pirie Scott & Co. No. 130,276; Apr. 20; v. 273; p. 619.
Shirts. Metropolitan Shirt Co. No. 129,500; Feb. 24; v. 271; p. 680.
Shirts. A. Tabachnik. No. 129,549; Feb. 24; v. 271; p. 681.
Shirts. Watts, Ritter & Company. No. 135,554; Oct. 12; v. 279; p. 346.
Shirts and blouses, Boys' dress-. The Monarch Company. No. 136,108; Oct. 26; v. 279; p. 722.
Shirts and overalls, Work-. Industrial Garment Co. No. 132,419; June 22; v. 275; p. 819.
Shirts and overalls, Work-. A. Rifkin. No. 135,056; Sept. 21; v. 278; p. 534.
Shirts and pajamas. Prime Shirt Co. No. 128,825; Jan. 13; v. 270; p. 342.
Shirts and pajamas, Men's negligée. Star Shirt Manufacturing Company. No. 132,543; June 22; v. 275; p. 823.
Shirts, and soft collars, Dress and negligée. E. L. Barton. No. 134,585; Sept. 14; v. 278; p. 353.
Shirts and underwear for men, Dress, negligée, and work. Weinberg & Weinberg. No. 132,272; June 15; v. 275; p. 621.
Shirts, blouses, rompers, &c. Cohen Bros. Company. No. 129,650; Mar. 9; v. 272; p. 361.
Shirts, collars, &c. Oppenheim, Oberndorf and Company. No. 129,517; Feb. 24; v. 271; p. 680.
Shirts, Dress-. Commercial Shirt Company. No. 131,068; May 4; v. 274; p. 195.
Shirts, Dress and negligée. Commercial Shirt Company. No. 135,419; Oct. 12; v. 279; p. 342.
Shirts, Dress and negligée. Metropolitan Shirt Co. No. 129,375; Feb. 17; v. 271; p. 508.
Shirts, Dress, negligée, and work. Samuel London & Co. Inc. No. 134 718; Sept. 14; v. 278; p. 357.
Shirts, Dress, negligée, and work. Metro Shirt Co. No. 138,488; Dec. 28; v. 281; p. 783.
Shirts, Dress, negligée and work. Piedmont Shirt Co. No. 130,388; Apr. 20; v. 273; p. 623.
Shirts, Dress, negligée, and work. Waltham Shirt Co. No. 132,580; June 22; v. 275; p. 824.
Shirts, (dress, negligée, and work,) collars, and cuffs. The Quaker City Shirt Manufacturing Company. No. 134,775; Sept. 14; v. 278; p. 359.
Shirts, dress-shirts, and shirt-waists, Work-. Penn Garment Company. No. 137,675; Nov. 30; v. 280; p. 999.
Shirts Flannel outer. American Wholesale Corporation. No. 135,385; Oct. 12; v. 279; p. 341.
Shirts, Flannel outer. D. M. Oberman Manufacturing Company. No. 137,664; Nov. 30; v. 280; p. 999.
Shirts, Men's. Brownstein-Louis Company. No. 130,656–7; May 4; v. 274; p. 183.
Shirts, Men's. Nuway Manufacturing Company. No. 135,501; Oct. 12; v. 279; p. 344.
Shirts, Men's and boys' outer. Richardson Dry Goods Company. No. 129,848; Mar. 9; v. 272; p. 367.
Shirts, Men's dress-. Kaplan & Kaplan. No. 131,788; May 25; v. 274; p. 832.
Shirts, Men's dress-. M. Menzin. No. 133,743; Aug. 3; v. 277; p. 175.
Shirts, Men's dress and negligée. Emerson Shirt Co. Inc. No. 132,136; June 15; v. 275; p. 617.
Shirts, Men's dress, negligée and work. The Shirtcraft Co. No. 137,703; Nov. 30; v. 280; p. 1000.
Shirts, Men's negligée. Unexcelled Shirt Co. No. 138,357; Dec. 21; v. 281; p. 567.
Shirts, Men's negligée and dress. Hero Shirt Manufacturing Company. No. 137,621; Nov. 30; v. 280; p. 998.
Shirts, Men's work-. Sears, Roebuck & Company. No. 137,442; Nov. 23; v. 280; p. 799.
Shirts, pajamas, underwear, &c., for men, Outer. Phillips-Jones Company. No. 138,329; Dec. 21; v. 281; p. 567.
Shirts, pants, and overalls, Men's. Cohen Bros. Company. No. 129,340; Feb. 17; v. 271; p. 507.
Shirts, underwear, &c. S. Liebovitz & Sons. No. 129,867; Feb. 17; v. 271; p. 508.
Shirts, underwear, &c., Men's. Chain Shirt Shops. No. 128,648; Jan. 13; v. 270; p. 337.
Shirts, Work-. Baltimore Bargain House. No. 128,615; Jan. 13; v. 270; p. 335.
Shirts, Work-. Farmers Union State Exchange. No. 137,593; Nov. 30; v. 280; p. 997.
Shirts, Work-. S. S. Gass. No. 137,454; Nov. 23; v. 280; p. 800.
Shirts, Work-. Joseph Horowitz & Sons. No. 128,736; Jan. 13; v. 270; p. 339.
Shirts, Work-. The National Belting Company. No. 129,303; Feb. 10; v. 271; p. 356.
Shirts, Work-. Reliance Manufacturing Company. No. 130,876; May 4; v. 274; p. 144.
Shirts, Work-. Reliance Manufacturing Company. No. 133,791; Aug. 3; v. 277; p. 176.
Shirts, work and night shirts, and pajamas, Mens' flannel. A. Krolik & Company. No. 132,983; July 6; v. 276; p. 202.
Shirtings. Quinebaug Company. No. 131,584; May 18; v. 274; p. 607.
Shirtings, Napped cotton. Burton Bros. & Co. No. 131,717; May 25; v. 274; p. 830.
Shock-absorbers for vehicles. Van Briggle Motor Device Company. No. 129,557; Feb. 24; v. 271; p. 681.
Shoe-buckles, combs, &c., Metal. Trifari & Krussman. No. 130,950; May 4; v. 274; p. 191.
Shoe, corset, &c., lacings, galloons, braids. Glencairn Mfg. Co. No. 130,502; Apr. 27; v. 273; p. 802.
Shoe-counters. Harwood Counter Company. No. 128,996; Jan 20; v. 270; p. 473.
Shoe dressing and cleanser. Import Drug Specialties Company. No. 132,713; June 29; v. 275; p. 1016.
Shoe dressing and polishes, &c. John C. Stalfort & Sons. No. 137,708; Nov. 30; v. 280; p. 1000.
Shoe-dressing in the form of a white dry powder. Miller-Walker Laboratories. No. 137,335; Nov. 23; v. 280; p. 796.
Shoe dressing, Leather-. Waterproof Oil Products Co. No. 137,076; Nov. 16; v. 280; p. 585.
Shoe dressings and polishes. E. N. Gaillard. No. 129,714; Mar. 9; v. 272; p. 363.
Shoe fabrics. Peters Manufacturing Company. No. 130,863; May 4; v. 274; p. 189.
Shoe-laces. Dodson, Fisher, Brockmann Co. No. 131,077; June 8; v. 275; p. 414.
Shoe-laces. Penn Rivet Corporation. No. 132,223; June 15; v. 275; p. 617.
Shoe-lasts. The Crawford McGregor & Canby Company. No. 134,621; Sept. 14; v. 278; p. 354.
Shoe-linings in the piece, Cotton-twill. Farnsworth, Hoyt Co. No. 135,438; Oct. 12; v. 279; p. 343.
Shoe-paste, Waterproof. B. J. Stanislawski. No. 136,947; Nov. 9; v. 280; p. 383.
Shoe-polish. Griffin Mfg. Co. No. 133,688; Aug. 3; v. 277; p. 173.
Shoe-polish. Ivory Polish Company. No. 133,708; Aug. 3; v. 277; p. 174.
Shoe-polish. C. E. Johnson & Co. Nos. 137,281–3; Nov. 23; v. 280; p. 795.
Shoe-polish and shoe-cream. L. Mandel. No. 130,014; Mar. 23; v. 272; p. 731.
Shoe-polishes. S. M. Bixby & Co. No. 134,303; Aug. 24; v. 277; p. 781.
Shoe-polishes. Good Luck Polish Co. No. 136,440; Nov. 2; v. 280; p. 182.
Shoe-polishes, &c. Griffin Manufacturing Co. No. 135,250; Sept. 28; v. 278; p. 702.
Shoe-polishing paste. W. Newman. No. 131,201; May 4; v. 274; p. 199.
Shoe-soles, Rubber and fiber. Revere Rubber Company. No. 130,394; Apr. 20; v. 273; p. 623.
Shoe strings and lacings, tapes, galloons. What Cheer Braid Company. No. 129,248; Jan. 27; v. 270; p. 617.
Shoe-tongue pads. E. A. Guinzburg. No. 130,311; Apr. 20; v. 273; p. 620.
Shoes. A. J. Bates & Company. Nos. 138,421–2; Dec. 28; v. 281; p. 781.
Shoes. Boyden Shoe Manufacturing Company. No. 131,712; May 25; v. 274; p. 830.
Shoes. Dudclif & Company. No. 131,094; May 4; v. 274; p. 196.
Shoes. S. Freiburger & Bro. Co. No. 137,230; Nov. 23; v. 280; p. 793.
Shoes. J. Freidson. No. 137,231; Nov. 23; v. 280; p. 793.
Shoes. O. Gentile. No. 130,302; Apr. 20; v. 273; p. 620.
Shoes. Graham-Bumgarner Company. Nos. 138,455–6; Dec. 28; v. 281; p. 782.

Shoes. Johnson, Stephens & Shinkle Shoe Company. No. 131,144; May 4; v. 274; p. 197.
Shoes. Kaufmann Department Stores. No. 136,492; Nov. 2; v. 280; p. 183.
Shoes. London Shoe Company. No. 136,518; Nov. 2; v. 280; p. 184.
Shoes. Lord & Taylor. No. 135,271; Sept. 28; v. 278; p. 703.
Shoes. Maryland Shoe Corporation. No. 138,290; Dec. 21; v. 281; p. 575.
Shoes. Powell & Campbell. No. 128,822; Jan. 13; v. 270; p. 342.
Shoes. J. L. Shapiro. No. 137,446; Nov. 23; v. 280; p. 799.
Shoes. E. C. Skuffer Shoe Co. No. 132,531; June 22; v. 275; p. 823.
Shoes. The W. E. Tuttle Co. No. 134,833; Sept. 14; v. 278; p. 361.
Shoes. United States Rubber Company. No. 128,555; Jan. 6; v. 270; p. 185.
Shoes. The Wise, Shaw & Feder Company. No. 134,852; Sept. 14; v. 278; p. 362.
Shoes and juliettes, Leather. Lunn & Sweet Co. No. 133,728; Aug. 3; v. 277; p. 174.
Shoes and rubber footwear. Apsley Rubber Company, Nos. 128,610–11; Jan. 13; v. 270; p. 335.
Shoes and slippers, Children's and misses'. The Just Shoe Company. No. 131,145; May 4; v. 274; p. 197.
Shoes and slippers, Children's, misses', and growing girls' leather. Howard-Hulme-Dittrich Shoe Co. No. 133,433; July 27; v. 276; p. 769.
Shoes and slippers of leather, &c. A. J. Bates & Company. No. 133,576; Aug. 3; v. 277; p. 169.
Shoes and slippers, Women's, misses', children's, infants', felt. George Borgfeldt & Co. No. 133,216; July 20; v. 276; p. 589.
Shoes, Athletic. Wisconsin Shoe Company. No. 134,851; Sept. 14; v. 278; p. 361.
Shoes, Babies' kid-leather washable. Gloversville Welt Co. No. 132,155; June 15; v. 275; p. 617.
Shoes, Bindings, pipings, &c., of leather for use in the manufacture of. United Stay Company. No. 133,855; Aug. 3; v. 277; p. 178.
Shoes, boots, and slippers. M. A. Feehan. No. 130,498; Apr. 27; v. 273; p. 802.
Shoes, boys' and girls'. H. F. Malott Shoe Co. No. 130,810; May 4; v. 274; p. 187.
Shoes, (Canvas and rubber), rubber soles and heels, &c. W. MacPherson. No. 136,086; Oct. 26; v. 279; p. 721.
Shoes, Canvas outing-. Apsley Rubber Company. No. 130,621; May 4; v. 274; p. 181.
Shoes, Canvas outing-. Apsley Rubber Company. No. 132,287; June 22; v. 275; p. 815.
Shoes, Children's. Craddock-Terry Company. No. 135,420; Oct. 12; v. 279; p. 342.
Shoes, Children's and infants' leather. Ferris Shoe Company. No. 133,654; Aug. 3; v. 277; p. 172.
Shoes, Children's leather. Hygrade Shoe Works. No. 129,473; Feb. 24; v. 271; p. 679.
Shoes, Composition for the treatment of white. S. M. Bixby & Co. No. 134,302; Aug. 24; v. 277; p. 781.
Shoes for children, Fabric. R. L. Whitney. No. 129,249; Jan. 27; v. 270; p. 617.
Shoes for men and boys. W. A. Withers. No. 137,425; Nov. 23; v. 280; p. 799.
Shoes, Ladies'. D. Cohn. No. 130,676; May 4; v. 274; p. 183.
Shoes, Leather, &c. H. C. Blazer. No. 134,643; Sept. 14; v. 278; p. 355.
Shoes, Leather, &c. Brauer Bros. Shoe Company. No. 130,266; Apr. 20; v. 273; p. 619.
Shoes, Leather. The C and E Shoe Company. No. 129,130; Jan. 27; v. 270; p. 613.
Shoes, Leather C and E Shoe Company. No. 129,398; Feb. 17; v. 271; p. 509.
Shoes, Leather. Frederick & Nelson. No. 128,700; Jan. 13; v. 270; p. 338.
Shoes, Leather. Fritz-Richards Company. No. 134,364; Aug. 31; v. 277; p. 972.
Shoes, Leather. O. Gentile. No. 133,670; Aug. 3; v. 277; p. 172.
Shoes, Leather. Graham Brown Shoe Company. No. 138,185; Dec. 14; v. 281; p. 404.
Shoes, Leather. Henry Kleine & Co. No. 130,330; Apr. 20; v. 273; p. 621.
Shoes, Leather. C. M. Kaplan. No. 128,745; Jan. 13; v. 270; p. 340.
Shoes, Leather. Keiffer Bros. Co. No. 129,965; Mar. 9; v. 272; p. 371.
Shoes, Leather. Milton J. Meyer & Co. No. 130,832; May 4; v. 274; p. 188.
Shoes, Leather. Otto Meyer and Co. No. 133,771; Aug. 3; v. 277; p. 176.
Shoes, Leather. A. Starr Best, Inc. No. 138,218; Dec. 21; v. 281; p. 563.
Shoes, Leather. W. H. Tomlinson & Co. No. 133,849; Aug. 3; v. 277; p. 178.
Shoes, Leather. United States Rubber Company. No. 129,094; Jan. 20; v. 270; p. 476.
Shoes, Leather. United States Rubber Company. No. 131,250; May 4; v. 274; p. 200.
Shoes, Children's. Brown Shoe Company. No. 138,224; Dec. 21; v. 281; p. 563.
Shoes, Leather and canvas. R. H. Macy & Co. No. 130,354; Apr. 20; v. 273; p. 622.
Shoes, Leather and fabric. L. Wiesner. No. 132,587; June 22; v. 275; p. 825.
Shoes, Leather, canvas, and fabric. H. Malkin's Sons. No. 128,446; Jan. 6; v. 270; p. 182.
Shoes, Leather, rubber &c. Marathon Shoe Co. No. 130,812; May 4; v. 274; p. 187.
Shoes, Leather, rubber, and canvas. Mrs. A. R. King. No. 133,268; July 20; v. 276; p. 591.
Shoes made of leather and cloth, Women's high and low. The Duttenhofer-Stevens Co. No. 132,932; July 6; v. 276; p. 200.
Shoes made of rubber and canvas. United States Rubber Company. No. 130,958. May 4; v. 274; p. 192.
Shoes, Men's, boys', and youths'. W. H. Griffin Company. No. 128,719; Jan. 13; v. 270; p. 339.
Shoes, Men's, women's, and children's. L. M. Traub. No. 128,545; Jan. 6; v. 270; p. 185.
Shoes, Misses' and children's. W. E. Tuttle Company. No. 137,516; Nov. 23; v. 280; p. 804.
Shoes of leather, &c., Men's and boy's. Craddock-Terry Company. No. 137,976; Dec. 14; v. 281; p. 896.
Shoes, Orthopedic, &c. Podiatry Shoe Company. No 132,489; June 22; v. 275; p. 821.
Shoes, pumps, sandals, slippers, &c. J. G. Asay Company. No. 129,420; Feb. 24; v. 271; p. 677.
Shoes, Women's and children's. Johansen Brothers Shoe Company. No. 130,527; Apr. 27; v. 273; p. 803.
Shoes, Women's and children's. Johansen Brothers Shoe Company. No. 137,277; Nov. 23; v. 280; p. 794.
Shoes, Women's leather. H. E. Davis Co. No. 130,482; Apr. 27; v. 273; p. 802.
Shoes, Women's leather. H. E. Davis Co No 137,188; Nov. 23; v. 280; p. 792.
Shoes, Women's leather. Homan-Hughes Company. No. 130,757; May 4; v. 274; p. 186.
Shoes, Women's leather. Homan-Hughes Company. No. 137,912; Dec. 7; v. 281; p. 201.
Shortening. The Southern Cotton Oil Company. No. 136,635; Nov. 2; v. 280; p. 188.
Shortening and frying medium. Aspegren & Co. No. 131,026 May 4; v. 274; p. 194.
Shortening compound. Southern Cotton Oil Company. No. 129,222; Jan. 27; v. 270; p. 616.
Shortening compound, Vegetable. The Southern Cotton Oil Company. No. 136,636; Nov. 2; v. 280; p. 188.
Shortening for cooking purposes, &c. Interstate Cotton Oil Refining Company. No. 133,999; Aug. 10; v. 277; p 388.
Shortening or artificial lard. Capitol Refining Co. No. 137,572; Nov. 30; v. 280; p. 996.
Shovels, Mechanical. Lake Superior Loader Co. No. 136,848; Nov. 9; v. 280; p. 380.
Shovels, spades, and scoops. Ames Shovel and Tool Company. No. 131,404; May 18; v. 274; p. 601.
Shovels, spades, scoops, and drainage-tools. Wood Shovel & Tool Co. No. 131,390; May 11; v. 274; p. 402.
Show-cases, wall display-cases, counters, &c. W. B. McLean Manufacturing Company. No. 135,869; Oct. 19; v. 279; p. 536.
Shutters for radiators of motor-vehicles. Auto Metal Parts Company. No. 134,337; Aug. 31; v. 277; p. 971.
Side frames, couplers, draft-gears, &c. American Steel Foundries. No. 137,535; Nov. 30; v. 280; p. 995.
Sleeves and chaffers for use in threshing-machines. J. H. Coss. No. 131,438; May 18; v. 274; p. 602.
Signals for vehicles, Traffic-. Auto Indicator Company. No. 133,209; July 20; v. 276; p. 589.
Signals, Warning-. Stewart-Warner Speedometer Corporation. No. 130,118; Apr. 6; v. 273; p. 181.
Signs, Permanent unchanging. F. W. Hockaday. No. 131,907; May 25; v. 274; p. 836.
Signs, Transparent window-. James H. Rook Company. No. 129,854; Mar. 9; v. 272; p. 367.
Silk and cotton fabrics, Light-weight woven. Louis Roessel & Co. No. 134,073; Aug. 10; v. 277; p. 390.
Silk and cotton piece goods and combinations of same. Turner & Walls. No. 131,247; May 4; v. 274; p. 200.
Silk and cotton piece goods and combinations of same. W. Skinner & Sons. No. 133,512; July 27; v. 276; p. 771.
Silk and cotton piece goods and combinations of the same. Turner & Walls No. 133,067; July 6; v. 276; p. 204.
Silk and fabric piece goods. Canziani-Henderson Co. No. 129,637; Mar. 9; v. 272; p. 361.
Silk and satin piece goods. McLane Silk Company. No. 131,180; May 4; v. 274; p. 198.
Silk and silk-mixture fabrics. Cheney Brothers. No. 132,329; June 22; v. 275; p. 816.
Silk and silk-mixture fabrics. Cheney Brothers. No. 133,932; Aug. 10; v. 277; p. 386.
Silk and silk mixture fabrics. Cheney Brothers. No. 136,368; Nov. 2; v. 280; p. 179.
Silk and silk-mixture fabrics in the piece. Cheney Brothers. Nos. 132,111–12; June 15; v. 275; p. 616.
Silk and velvet piece goods. Coudurier, Fructus & Descher. No. 135,963; Oct. 26; v. 279; p. 717.
Silk fabric and ribbons in the piece. Hanselmann-Johnson Company. No. 132,404; June 22; v. 275; p. 819.
Silk fabrics in the piece. Cheney Brothers. No. 132,113; June 15; v. 275; p. 616.
Silk fabrics in the piece, Broad. Franck & Marx. No. 136,423; Nov. 2; v. 280; p. 181.

Digitized by Google

Alphabetical list of trade-marks—Continued.

Silk-filled crêpe de chine piece goods. Nathan and Cohen Co. No. 133,289; July 20; v. 276; p. 591.
Silk goods in the piece. S. Briskman. No. 129,628; Mar. 9; v. 272; p. 360.
Silk goods in the piece. Henri Gutmann Silks Corporation. No. 133,427; July 27; v. 276; p. 769.
Silk goods in the piece. T. J. Mitchell & Co. No. 133,469; July 27; v. 276; p. 770.
Silk in the piece. Stavisky & Greenstone. No. 133,516; July 27; v. 276; p. 772.
Silk piece goods. Bentley & Twohey Silk Co. No. 131,037; May 4; v. 274; p. 194.
Silk piece goods. Berfelden Mills. No. 129,614; Mar 9; v. 272; p. 360.
Silk piece goods. W. T. Dickson. No. 132,128; June 15; v. 275; p. 616.
Silk piece goods. Duplan Silk Corporation. No. 135,977; Oct. 26; v. 279; p. 718.
Silk piece goods. S. Eiseman & Co. No. 133,240; July 20; v. 276; p. 590.
Silk piece goods. Empire Silk Company. No. 129,960; Mar. 9; v. 272; p. 371.
Silk piece goods. Empire Silk Company. No. 131,104; May 4; v. 274; p. 196.
Silk piece goods. Empire Silk Company. No. 133,407; July 27; v. 276; p. 768.
Silk piece goods. Empire Silk Company. No. 133,643; Aug. 3; v. 277; p. 172.
Silk piece goods. J. L. Foreman. No. 129,707; Mar. 9; v. 272; p. 363.
Silk piece goods. Fuji-Gasu Spinning Company. No. 129,713; Mar. 9; v. 272; p. 363.
Silk piece goods. Haas Brothers. No. 129,736; Mar. 9; v. 272; p. 364.
Silk piece goods. Haas Brothers Fabrics' Corporation. No. 131,475; May 18; v. 274; p. 603.
Silk piece goods. Haas Brothers Fabrics' Corporation. No. 132,158; June 15; v. 275; p. 617.
Silk piece goods. B. Hart & Brother. No. 135,686; Oct. 19; v. 279; p. 528.
Silk piece goods. H. R. Mallison & Co. No. 129,498; Feb. 24; v. 271; p. 679.
Silk piece goods. H. R. Mallinson & Co. Nos. 129,781–3; Mar. 9; v. 272; p. 365.
Silk piece goods. H. R. Mallinson & Co. No. 133,461; July 27; v. 276; p. 770.
Silk piece goods. H. R. Mallinson & Co. No. 136,726; Nov. 2; v. 280; p. 192.
Silk piece goods. John H. Meyer Silk Mills Co. Nos. 132,200–1; June 15; v. 275; pp. 618–19.
Silk piece goods. J. A. Migel, Inc. No. 132,021; June 8; v. 275; p. 415.
Silk piece goods. Oriental Silk Printing Company. No. 129,819; Mar. 9; v. 272; p. 366.
Silk piece goods. Puritan Silks Corporation. No. 131,583; May 18; v. 274; p. 607.
Silk piece goods. Puritan Silks Corporation. No. 132,231; June 15; v. 275; p. 619.
Silk piece goods. Puritan Silks Corporation. No. 135,799; Oct. 19; v. 279; p. 531.
Silk piece goods. Louis Roessel & Co., Inc. No. 131,827; May 25; v. 274; p. 833.
Silk piece goods. M. Strauss. No. 129,893; Mar. 9; v. 272; p. 369.
Silk piece goods. Sunset Silk Mills. No. 131,945; June 1; v. 275; p. 199.
Silk piece goods, Artificial-. Nadav & Fleischer. No. 136,547; Nov. 2; v. 280; p. 185.
Silk piece goods, Broad-. Duplan Silk Corporation. Nos. 135,655–6; Oct. 19; v. 279; p. 527.
Silk piece goods, Broad-. Duplan Silk Corporation. Nos. 134,931–5; Sept. 21; v. 278; p. 531.
Silk piece goods, Broad-. Duplan Silk Corporation. Nos. 135,227–32; Sept. 28; v. 278; p. 702.
Silk piece goods, Broad-. Duplan Silk Corporation. Nos. 135,430–1; Oct. 12; v. 279; p. 342.
Silk piece goods, Woven and knitted. M. Strauss. No. 136,204; Oct. 26; v. 279; p. 724.
Silk threads and yarns, Natural and artificial. The H. K. H. Silk Co. of New York. Nos. 134,379–80; Aug. 31; v. 277; p. 972.
Silk, Thrown. Abram Bloom Co. No. 128,634; Jan. 13; v. 270; p. 336.
Silk, wool, linen, &c., piece goods. Bianchini, Férier. No. 133,354; July 27; v. 276; p. 767.
Silk, wool, &c., piece goods. Chatillon, Mouly, Roussel & Co. No. 134,904; Sept. 21; v. 278; p. 530.
Silk, wool, &c., piece goods. Warner-Godfrey Co. No. 128,564; Jan. 6; v. 270; p. 185.
Silks and satins in the piece. Belding Bros. & Co. No. 131,284; May 11; v. 274; p. 399.
Silks in pieces, Plain and printed broad. Friedman & Moss. No. 133,666; Aug. 3; v. 277; p. 172.
Silks in pieces, Plain and printed, broad. Friedman & Moss. No. 133,968; Aug. 10; v. 277; p. 387.
Silks in the piece. Lindeke, Warner & Sons. No. 132,190; June 15; v. 275; p. 618.
Silks in the piece, Broad. W. M. Alford & Sons. No. 133,559; Aug. 3; v. 277; p. 169.
Silks in the piece, Broad. Jersey Silk Mills. No. 136,482; Nov. 2; v. 280; p. 183.
Silks in the piece, Broad. N. Ullman. No. 136,967; Nov. 9; v. 280; p. 384.
Silks in the piece, charmeuses, &c., Broad. G. Oesterreicher & Co. No. 136,130; Oct. 26; v. 279; p. 722.
Silks, satins, velvets, broadcloths, serge in the piece. J. Metzler. No. 134,742; Sept. 14; v. 278; p. 358.
Silks, velvets, &c. United Silk Mills. No. 133,535; July 27; v. 276; p. 772.
Silver, gold, and nickel polish. F. G. Stewart. No. 134,094; Aug. 10; v. 277; p. 391.
Silver-plated hollow and flat ware. L. D. Bloch & Co. No. 135,608; Oct. 19; v. 279; p. 526.
Silver-plating compound. Metalmend Manufacturing Co. No. 138,487; Dec. 28; v. 281; p. 783.
Silverware and silver-plated ware. Barker Bros., Silversmiths. No. 136,749; Nov. 9; v. 280; p. 377.
Silverware polish. United Drug Company. No. 134,111; Aug. 10; v. 277; p. 391.
Sioris, Pantelis A., New York, N. Y. Weekly newspapers. No. 134,807; Sept. 14; v. 278; p. 360.
Sizing and finishing compounds for textile fabrics and threads. Seydel Manufacturing Company. No. 131,609; May 18; v. 274; p. 608.
Skates, Ice-. Nestor Johnson Manufacturing Company. No. 128,470; Jan. 6; v. 270; p. 183.
Skates, Ice-. The Samuel Winslow Skate Mfg. Co. No. 133,506; July 27; v. 276; p. 771.
Skees. Ellingwood Turning Co. No. 130,492; Apr. 27; v. 273; p. 802.
Skin-astringent. P. Graham. No. 132,688; June 29; v. 275; p. 1015.
Skin-cleansing tonic and massage-cream. A. J. Krank. No. 136,845; Nov. 9; v. 280; p. 380.
Skin-cream. M. Morgan. No. 136,109; Oct. 26; v. 279; p. 722.
Skin-emollient. L. Friend. No. 132,377; June 22; v. 275; p. 818.
Skin-protecting compound. W. Kalenscher. No. 138,189; Dec. 14; v. 281; p. 405.
Skins and sponges, Chamois-. D. J. Lindner. No. 131,169. May 4; v. 274; p. 198.
Skins, Chamois-. A. Hart. No. 132,406; June 22; v. 275; p. 819.
Skins, Finished. Standard Kid Mfg. Co. No. 132,251; June 15; v. 275; p. 620.
Skins for stoppered bottles, Capping-. Julius Schmid, Incorporated. No. 134,437; Aug. 31; v. 277; p. 974.
Skins, Fur-. A. Hollander & Son. No. 135,700; Oct. 19; v. 279; p. 528.
Skins, Fur-bearing. Martin-Laskin Company. No. 128,781; Jan. 13; v. 270; p. 341.
Skins, Roller-. John Ormerod & Sons. No. 136,885; Nov. 9; v. 280; p. 381.
Skirts, Dress-. Grewen Fabric Co. No. 128,718; Jan. 13; v. 270; p. 339.
Skirts. Mazzel Skirt Co. No. 133,282; July 20; v. 276; p. 591.
Skylight-bars. Steelead Skylight Co. No. 133,326; July 20; v. 276; p. 593.
Sleds and wheeled coasters, Children's. A. W. Anderson. No. 135,192; Sept. 28; v. 278; p. 701.
Sleepers of cementitious material. Nailcrete Corporation. No. 137,340; Nov. 23; v. 280; p. 796.
Sleeping-garments. S. Ballin. No. 131,033; May 4; v. 274; p. 194.
Slippers. Pierre E. Giroux & Co. No. 133,730; Aug. 3; v. 277; p. 176.
Slippers. United States Rubber Company. No. 135,353; Sept. 28; v. 278; p. 706.
Slippers. Worcester Felt Goods Company. No. 135,365; Sept. 28; v. 278; p. 706.
Slippers for babies. M. Perfect. No. 137,847; Dec. 7; v. 281; p. 198.
Slippers, Leather, silk, &c. Wiley-Bickford-Sweet Co. No. 130,593; Apr. 27; v. 273; p. 805.
Smocks and aprons. B. H. Plummer. No. 133,783; Aug. 3; v. 277; p. 176.
Smocks, dresses, skirts, waists, and hats. T. Roelofsma. No. 137,689; Nov. 30; v. 280; p. 1000.
Smokers' articles. A. Dunhill. No. 135,429; Oct. 12; v. 279; p. 342.
Smokers' articles. Redmanol Chemical Products Co. No. 135,781; Oct. 19; v. 279; p. 531.
Smokers' articles, &c. Tiffany & Company. Nos. 137,720–1; Nov. 30; v. 280; p. 1001.
Snap and placket fasteners. Federal Snap Fastener Corporation. No. 128,693; Jan. 13; v. 270; p. 338.
Snap and placket fasteners. Federal Snap Fastener Corporation. No. 129,282; Feb. 10; v. 271; p. 355.
Snap and placket fasteners. Federal Snap Fastener Corporation. No. 129,983; Mar. 16; v. 272; p. 539.
Snap and placket fasteners. Federal Snap Fastener Corporation. No. 132,141; June 15; v. 275; p. 617.
Snap and placket fasteners. Federal Snap Fastener Corporation. No. 132,677; June 29; v. 275; p. 1015.
Snap and placket fasteners. Federal Snap Fastener Corporation. No. 133,651; Aug. 3; v. 277; p. 172.
Snap dress-fasteners. Columbia Fastener Company. No. 130,285; Apr. 20; v. 273; p. 620.
Snap-fasteners. The American Pin Company. No. 135,383; Oct. 12; v. 279; p. 341.
Snap-fasteners. Columbia Fastener Company. Nos. 130,283–4; Apr. 20; v. 273; p. 620.
Snap-fasteners. Fulford Mfg. Co. No. 130,298; Apr. 20; v. 273; p. 620.

Digitized by Google

Snap-fasteners. Penn Rivet Corporation. No. 132,032; June 8; v. 275; p. 415.
Snap-fasteners. P. Shin. No. 131,628; May 18; v. 274; p. 608.
Snap-fasteners. "Snaplok," Inc. No. 133,825; Aug. 8; v. 277; p. 177.
Snap-fasteners. United Trimming Co. No. 130,959; May 4; v. 274; p. 192.
Snap-fasteners. Waldes & Co. No. 134,455; Aug. 31; v. 277; p. 974.
Snap-fasteners. D. Warshavsky. No. 129,242; Jan. 27; v. 270; p. 617.
Snap-fasteners and buttons. E. G. Khouri & Bro. No. 130,078; Apr. 6; v. 273; p. 180.
Soap. B. Altman & Co. No. 134,565; Sept. 14; v. 278; p. 353.
Soap. B. Altman & Co. No. 137,757; Dec. 7; v. 281; p. 195.
Soap. The Carlton Co. No. 129,638; Mar. 9; v. 272; p. 361.
Soap. The Cincinnati Soap Co. No. 132,644; June 29; v. 275; p. 1014.
Soap. J. A. Clark. No. 137,020; Nov. 16; v. 280; p. 583.
Soap. H. Clarke & Sons. No. 134,910; Sept. 21; v. 278; p. 530.
Soap. Empire Soap Company. No. 136,797; Nov. 9; v. 280; p. 379.
Soap. E. Fougera & Co. No. 136,000; Oct. 26; v. 279; p. 718.
Soap. George Borgfeldt & Co. No. 135,199; Sept. 28; v. 278; p. 701.
Soap. G. T. Georgis. No. 133,671; Aug. 8; v. 277; p. 172.
Soap. W. T. Gillett. No. 136,814; Nov. 9; v. 280; p. 379.
Soap. Haskins Bros. & Company. No. 137,257; Nov. 23; v. 280; p. 794.
Soap. A. P. Hayter. No. 135,688; Oct. 19; v. 279; p. 528.
Soap. Hijos de Ybarra. No. 137,747; Nov. 30; v. 280; p. 1002.
Soap. Howard Bros. Chemical Co. No. 130,078; Apr. 6; v 273; p. 180.
Soap. Howard Bros. Chemical Co. No. 132,172; June 15; v. 275; p. 618.
Soap. Huntington Chemical Company. No. 132,709; June 29; v. 275; p. 1016.
Soap. James S. Kirk & Company. No. 132,430; June 22; v. 275; p. 820.
Soap. A. Kasser. No. 134,697; Sept. 14; v. 278; p. 357.
Soap. H. A. Knapp. No. 136,500; Nov. 2; v. 280; p. 183.
Soap. Lange Soap Co. No. 134,992; Sept. 21; v. 278; p. 532.
Soap. Lange Soap Co. No. 136,507; Nov. 2; v. 280; p. 184.
Soap. Lever Brothers Company. No. 137,641; Nov. 30; v. 280; p. 998.
Soap. Louisville Food Products Company. No. 132,440; June 22; v. 275; p. 820.
Soap. M. W. M. Soap Co. No. 135,008; Sept. 21; v. 278; p. 533.
Soap. The Mills Brothers Company. No. 135,015; Sept. 21; v. 278; p. 533.
Soap. National Sulfern Soap Co. No. 132,026; June 8; v. 275; p. 415.
Soap. Oakley Chemical Co. No. 135,502; Oct. 12; v. 279; p. 344.
Soap. B. Parker. No. 134,760; Sept. 14; v. 278; p. 359.
Soap. Pattison & Co. No. 135,507; Oct. 12; v. 279; p. 345.
Soap. Peerless Mineral Products Co. No. 131,207; May 4; v. 274; p. 199.
Soap. Peet Bros. Manufacturing Co. No. 131,208; May 4; v. 274; p. 199.
Soap. Procter and Gamble Company. No. 132,037; June 8; v. 275; p. 415.
Soap. The Procter & Gamble Company. Nos. 132,228–9; June 15; v. 275; p. 619.
Soap. Procter & Gamble Company. No. 133,492; July 27; v. 276; p. 771.
Soap. The Procter and Gamble Company. No. 134,773; Sept. 14; v. 278; p. 359.
Soap. The Procter and Gamble Company. No. 135,047; Sept. 21; v. 278; p. 534.
Soap. Saberton Mfg. Co. No. 128,840; Jan. 13; v. 270; p. 343.
Soap. Saberton Mfg. Co. No. 136,920; Nov. 9; v. 280; p. 382.
Soap. Schofield Oil Co. No. 131,234; May 4; v. 274; p. 200.
Soap. Alex. D. Shaw & Co. No. 132,243; June 15; v. 275; p. 620.
Soap. Société Anonyme des Savons de Marseille. No. 137,863; Dec. 7; v. 281; p. 198.
Soap. Swift & Company. No. 128,535; Jan. 6; v. 270; p. 184.
Soap. Swift & Company. No. 137,487; Nov. 23; v. 280; p. 801.
Soap. A. W. Tarson. No. 138,138; Dec. 14; v. 281; p. 401.
Soap. Tyson & Co. No. 137,072; Nov. 16; v. 280; p. 581.
Soap. Washer Maid Company. No. 130,135; Apr. 6; v. 273; p. 182.
Soap. J. B. Williams Company. No. 131,270; May 4; v. 274; p. 201.
Soap and shaving soap. Lehn & Fink. No. 135,729; Oct. 19; v. 279; p. 529.
Soap and soap chips. Pacific Coast Borax Co. No. 135,028; Sept. 21; v. 278; p. 533.
Soap and washing-powder. T. Nakayama. No. 137,339; Nov. 23; v. 280; p. 796.
Soap, Automobile-. Boston Blacking Co. No. 129,627; Mar. 9; v. 272; p. 360.
Soap, Automobile-. Harley Soap Company. No. 137,034; Nov. 16; v. 280; p. 583.
Soap chips. West Coast Soap Co. No. 136,254; Oct. 26; v. 279; p. 726.
Soap-dispensers. U. S. Sanitary Specialties Corporation. No. 136,971; Nov. 9; v. 280; p. 384.
Soap flakes. The Procter and Gamble Company. No. 137,849; Dec. 7; v. 281; p. 198.
Soap flakes. Chas. W. Young & Co. No. 135,173; Sept. 21; v. 278; p. 538.
Soap flakes. S. I. Welsher. No. 135,159; Sept. 21; v. 278; p. 537.
Soap, Hand-. The Cope-Walton Co. No. 134,620; Sept. 14; v. 278; p. 354.
Soap in bars, Mechanics'. Cla-Loid Mfg. Co. No. 133,613; Aug. 8; v. 277; p. 171.
Soap in cans. The Wink-O Products Co. No. 138,164; Dec. 14; v. 281; p. 402.
Soap in liquid and solid form, Shampoo-. Wildroot Co. No. 136,261; Oct. 26; v. 279; p. 726.
Soap, Laundry. Beach Soap Company. No. 137,943; Dec. 14; v. 281; p. 395.
Soap, Laundry. W. S. Burns. No. 128,820; Jan. 6; v. 270; p. 178.
Soap, Laundry. Prouty-Bowler Soap Co. No. 138,094; Dec. 14; v. 281; p. 400.
Soap, Laundry. West Coast Soap Co. No. 128,573; Jan. 6; v. 270; p. 186.
Soap, Laundry. West Coast Soap Co. No. 131,875; May 25; v. 274; p. 835.
Soap, Laundry. West Coast Soap Co. No. 134,123; Aug. 10; v. 277; p. 322.
Soap, Liquid. The Hexter Stewart Corporation Company. No. 134,966; Sept. 21; v. 278; p. 532.
Soap, Medicated. Frederick Stearns & Co. No. 128,864; Jan. 13; v. 270; p. 343.
Soap, Medicated. Saberton Mfg. Co. No. 131,603; May 18; v. 274; p. 608.
Soap, Oil-. The Cudahy Packing Company. No. 129,666; Mar. 9; v. 272; p. 362.
Soap of paste-like consistency. The Skat Company. No. 137,452; Nov. 23; v. 280; p. 800.
Soap, Paste. The Ohio Varnish Company. No. 134,755; Sept. 14; v. 278; p. 358.
Soap, Perfumed. Wright, Layman & Umney. No. 129,947; Mar. 9; v. 272; p. 370.
Soap powder. Louisville Food Products Company. No. 137,644; Nov. 30; v. 280; p. 998.
Soap powder, &c. The Red Ball Company. No. 138,096; Dec. 14; v. 281; p. 400.
Soap-powder dispensers. Re-Be Soap Co. No. 137,851; Dec. 7; v. 281; p. 198.
Soap, Powdered. Elgin National Soap Company. No. 132,135; June 15; v. 275; p. 617.
Soap, Shaving-. Colgate & Co. No. 135,417; Oct. 12; v. 279; p. 342.
Soap, shaving-sticks, cream, and powder. American Safetee Soap Corporation. No. 134,880; Sept. 21; v. 278; p. 529.
Soap, Skin-. Lamar, Taylor & Riley Drug Co. No. 132,434; June 22; v. 275; p. 820.
Soap, soap jelly, powder, and flakes. G. N. Smith. No. 136,191; Oct. 26; v. 279; p. 724.
Soap, soap powders, cleansers. Kildirt Soap Products Company. No. 132,720; June 29; v. 275; p. 1016.
Soap, Soft. W. Wunsch. No. 136,264; Oct. 26; v. 279; p. 726.
Soap, sweeping compound, metal-polish, &c., Liquid. Rochester Germicide Company. No. 135,787; Oct. 19; v. 279; p. 531.
Soap, Toilet. Haskins Bros. & Company. No. 136,452; Nov. 2; v. 280; p. 182.
Soap, Toilet. James S. Kirk Company. No. 132,721; June 29; v. 275; p. 1016.
Soap, Toilet. Munyon's Homoeopathic Home Remedy Company. No. 138,069; Dec. 14; v. 281; p. 399.
Soap, Toilet. The Sydney Ross Company. No. 137,488; Nov. 23; v. 280; p. 801.
Soap, toilet and laundry. Grand Union Tea Co. No. 131,128; May 4; v. 274; p. 197.
Soap, Toilet and shaving. Solon Palmer. No. 134,757; Sept. 14; v. 278; p. 358.
Soap, Waterless. Wite-Kat Soap Company. No. 128,580; Jan. 6; v. 270; p. 186.
Soap, Waterless hand-. G. C. McConnell & Co. No. 129,775; Mar. 9; v. 272; p. 365.
Soap, White laundry. The Federal Soap Company. No. 135,671; Oct. 19; v. 279; p. 527.
Soap, Yellow laundry. The Federal Soap Company. No. 133,652; Aug. 3; v. 277; p. 172.
Soaps. Agra Company. No. 130,024; Apr. 6; v. 273; p. 179.
Soaps. California Soap Company. No. 133,603; Aug. 8; v. 277; p. 170.

Digitized by Google

Alphabetical list of trade-marks—Continued.

Soaps. Colgate & Co. No. 129,651; Mar. 9; v. 272; p. 361.
Soaps. E. Gal, Sociedad En Comandita. No. 129,715; Mar. 9; v. 272; p. 363.
Soaps. A. W. Lambert, Jr., & Company. No. 131,524; May 18; v. 274; p. 605.
Soaps. Magic-Keller Soap Works. No. 129,022; Jan. 20 v. 270; p. 474.
Soaps. C. G. Moller. No. 133,751; Aug. 3; v. 277; p. 175.
Soaps. C. G. Moller. No. 134,032; Aug. 10; v. 277; p. 389.
Soaps. The Omega Chemical Company. No. 135,027; Sept. 21; v. 278; p. 533.
Soaps. Red "C" Oil Manufacturing Co. No. 133,787; Aug. 3; v. 277; p. 176.
Soaps and metal-polishes. Hachmeister-Lind Chemical Company. No. 137,619; Nov. 30; v. 280; p. 998.
Soaps and soap powders. Grain Soaps Corporation. No. 133,982; Aug. 10; v. 277; p. 387.
Soaps and washing-powders. A. Hoefner & Sons. No. 134,381; Aug. 31; v. 277; p. 972.
Soaps, Cake, bar, paste, &c. J. H. Karp. No. 136,490; Nov. 2; v. 280; p. 183.
Soaps, cleansers, and metal-polishes. Frampton Chemical Co. No. 133,967; Aug. 10; v. 277; p. 387.
Soaps for hygienic and medical purposes. Società Industrie Chimiche Ittiolo. No. 131,239; May 4; v. 274; p. 200.
Soaps, Laundry and toilet. J. Rothschild. No. 129,856; Mar. 9; v. 272; p. 367.
Soaps, shaving-cream, and metal-polish. The Mills Brothers Company. No. 136,540; Nov. 2; v. 280; p. 185.
Soaps, shaving preparations. Remiller Company. No. 132,041; June 8; v. 275; p. 416.
Soaps, soap and scouring powders, &c. Grand Union Tea Co. No. 136,445; Nov. 2; v. 280; p. 182.
Soaps, soap tablets, and rug-cleaners, Laundry. C. C. Cummings. No. 131,072; May 4; v. 274; p. 195.
Soaps, Toilet. The Armand Company. No. 132,085; June 15; v. 275; p. 615.
Soaps, Toilet. The Armand Company. No. 135,388; Oct. 12; v. 279; p. 341.
Soaps, Toilet. Frederick Stearns & Co. No. 132,053; June 8; v. 275; p. 416.
Soda and water-softener, Washing-. H. E. Kreider. No. 136,504; Nov. 2; v. 280; p. 184.
Soda ash and crystals, &c. The Solvay Process Company. No. 129,312; Feb. 10; v. 271; p. 356.
Soda-ash or anhydrous sodium carbonate. California Alkali Co. No. 132,635; June 29; v. 275; p. 1014.
Soda, benzoate of soda, chlorid of lime, &c., Caustic. Southern Sales Corporation. No. 131,625; May 18; v. 274; p. 608.
Soda, Cleansing-. E. G. Broderick. No. 138,427; Dec. 28; v. 281; p. 781.
Soda-fountains and soda-water carbonators. The Russ Manufacturing Company. No. 134,190; Aug. 17; v. 277; p. 582.
Soda used for cleaning and washing, Neutral. California Alkali Co. No. 132,634; June 29; v. 275; p. 1014.
Soda-water. Cairo Food Products Company. No. 136,346; Nov. 2; v. 280; p. 179.
Soda-water and non-alcoholic syrups used in the making of soft drinks. E. H. Dessauer. No. 132,125; June 15; v. 275; p. 616.
Soda-water, Bottled. L. Glazer. No. 135,681; Oct. 19; v. 279; p. 528.
Soda-water, Carbonated. Universal Beverage Company. No. 133,852; Aug. 3; v. 277; p. 178.
Sodas—namely, soda crackers and biscuits. Pacific Coast Biscuit Company. No. 137,919; Dec. 7; v. 281; p. 201.
Sodium-hydrate asbestos absorbent. Arthur H. Thomas Company. No. 129,552; Feb. 24; v. 271; p. 681.
Sodium silicate. Philadelphia Quartz Company. No. 129,525; Feb. 24; v. 271; p. 680.
Sodium silicate. Philadelphia Quartz Company. Nos. 138,496–7; Dec. 28; v. 281; p. 783.
Sodium-salicylate preparations. The Eli Lilly & Company. No. 131,746; May 25; v. 274; p. 831.
Soil-filling machines. The Dunham Company. No. 134,930; Sept. 21; v. 278; p. 580.
Solder. E. Charland. No. 132,110; June 15; v. 275; p. 616.
Solder. W. A. Day. No. 132,349; June 22; v. 275; p. 817.
Solder. Federal Mfg. Co. No. 130,718; May 14; v. 274; p. 184.
Solder for aluminium. A. Mirete Ayala. No. 131,406; May 18; v. 274; p. 601.
Soldering compounds in powder form. R. S. Churchill. No. 134,162; Aug. 17; v. 277; p. 581.
Soldering-flux. O. Greenstreet. No. 129,465; Feb. 24; v. 271; p. 678.
Soldering-kits. F. Chapman. No. 128,329; Jan. 6; v. 270; p. 178.
Soldering materials. The Paragon Insulating Company. No. 135,768; Oct. 19; v. 279; p. 530.
Soles and heels, Boot and shoe. Armstrong Cork Company. Nos. 130,624–5; May 4; v. 274; p. 182.
Soles and heels for shoes. J. H. Stedman. No. 137,710; Nov. 30; v. 280; p. 1000.
Soles and heels, Leather. C. G. Fleckenstein Co. No. 131,111; May 4; v. 274; p. 196.
Soles, boots, and shoes. Adwear Process Sole Leather Machine Company. No. 130,453; Apr. 27; v. 273; p. 801.
Solvent or softener to facilitate the cleaning of certain named articles. Three In One Oil Company. No. 133,061; July 6; v. 276; p. 204.
Songs, sheet-music, and book of songs, Printed. Wallace & Freed, Incorporated. No. 134,843; Sept. 14; v. 278; p. 361.
Sound-records. T. L. Shaw. No. 132,804; June 29; v. 275; p. 1019.
Sound-reproducing-machine cabinets. Perfection Talking Machine Company. No. 130,023; Mar. 30; v. 272; p. 911.
Sound-reproducing machines, Electrical-lighting attachments for. Standard Accessory Corporation. No. 133,829; Aug. 3; v. 277; p. 177.
Sounds, Instruments for producing comical imitative. B. Van Horn. No. 132,846; June 29; v. 275; p. 1020.
Soup. St. Louis Food Products Company. No. 130,583; Apr. 27; v. 273; p. 805.
Soup, broth, beef-tea, &c. N. V. Overschiesche-Landen Tuinbouw-Maatschappij. No. 129,820; Mar. 9; v. 272; p. 366.
Soups. American "E" Products Company. Nos. 134,209–10; Aug. 24; v. 277; p. 777.
Soups, Dehydrated and condensed. Nocan Soup Company. No. 136,558; Nov. 2; v. 280; p. 185.
Sowers, Seed-. D. E. Speicher. No. 137,475; Nov. 23; v. 280; p. 800.
Spades, shovels. C. Osmundson. No. 130,854; May 4; v. 274; p. 188.
Spaghetti and macaroni. Grand Union Tea Co. No. 131,126; May 4; v. 274; p. 197.
Spaghetti, macaroni, &c. Fortune Products Company. No. 137,786; Dec. 7; v. 281; p. 196.
Spaghetti, macaroni, vermicelli, and egg-noodle. Fortune Products Company. Nos. 136,965–6; Aug. 10; v. 277; p. 387.
Spaghetti, noodles, &c. Pan American Manufacturing Co. No. 137,358; Nov. 23; v. 280; p. 797.
Spark boosters or intensifiers. P. E. Ramsey. No. 133,784; Aug. 3; v. 277; p. 176.
Spark-intensifiers. A. K. Van Namee. No. 130,431; Apr. 20; v. 273; p. 624.
Spark-plug. Brewster-Goldsmith Corp. No. 131,420; May 18; v. 274; p. 601.
Spark-plug tools. Wallace Manufacturing Co. No. 131,385; May 11; v. 274; p. 402.
Spark-plug and contact-point cleaner. The Duro Company. No. 137,024; Nov. 16; v. 280; p. 583.
Spark-plug intensifiers. J. F. Wing. No. 134,850; Sept. 14; v. 278; p. 361.
Spark-plugs. Aircraft & Motor Products Co. No. 133,097; July 13; v. 276; p. 401.
Spark-plugs. The Akron Spark Plug Co. No. 136,285; Nov. 2; v. 280; p. 177.
Spark-plugs. The Arc-O'-Manufacturing Co. Nos. 134,886–7; Sept. 21; v. 278; p. 529.
Spark-plugs. J. R. Ayotte. No. 128,613; Jan. 13; v. 270; p. 335.
Spark-plugs. J. Blometer. No. 137,558; Nov. 30; v. 280; p. 996.
Spark-plugs. O. D. Bowers. No. 128,688; Jan. 13; v. 270; p. 336.
Spark-plugs. E. W. Brandquist. No. 130,466; Apr. 27; v. 273; p. 801.
Spark-plugs. The Brewster-Goldsmith Corporation. No. 131,713; May 25; v. 274; p. 830.
Spark-plugs. Brewster-Goldsmith Corp. Inc. No. 133,219; July 20; v. 276; p. 589.
Spark-plugs. Derf Manufacturing Company. No. 130,289; Apr. 20; v. 273; p. 620.
Spark-plugs. P. J. Donavan. No. 135,974; Oct. 26; v. 279; p. 718.
Spark-plugs. Express Spark Plug Corporation. No. 128,691; Jan. 13; v. 270; p. 338.
Spark-plugs. Ford Mica Company. No. 133,657; Aug. 3; v. 277; p. 172.
Spark-plugs. F. M. Furber. No. 130,299; Apr. 20; v. 273; p. 620.
Spark-plugs. Gets Manufacturing Company. No. 131,469; May 18; v. 274; p. 603.
Spark-plugs. G. H. Greenhalgh. No. 132,692; June 29; v. 275; p. 1015.
Spark-plugs. Hill Insulating & Manufacturing Corporation. No. 131,489; May 18; v. 274; p. 604.
Spark-plugs. The Ignition Plug Co. No. 135,707; Oct. 19; v. 279; p. 529.
Spark-plugs. Kant Break Spark Plug Company. No. 136,052; Oct. 26; v. 279; p. 720.
Spark-plugs. Lyons Ignition Company. No. 128,769; Jan. 13; v. 270; p. 340.
Spark-plugs. Lydon Manufacturing Co. No. 131,542; May 18; v. 274; p. 606.
Spark-plugs. Marmon Chicago Company. No. 132,197; June 15; v. 275; p. 618.
Spark-plugs. National Spark Plug Company. No. 132,212; June 15; v. 275; p. 619.
Spark-plugs. Penn Mfg. Co. No. 135,298; Sept. 28; v. 278; p. 704.
Spark-plugs. Pep Spark Plug Company. No. 133,778; Aug. 3; v. 277; p. 176.

Digitized by Google

Spark-plugs. Rummell Manufacturing Works. No. 133,031; July 6; v. 276; p. 203.
Spark-plugs. The Sharp Spark Plug Company. No. 137,696; Nov. 30; v. 280; p. 1000.
Spark-plugs. Societe H. Trentelivres & Cie. No. 136,942; Nov. 9; v. 280; p. 383.
Spark-plugs. Stitt Ignition Co. No. 133,048; July 6; v. 276; p. 204.
Spark-plugs. Symms-Brownell Manufacturing Company. No. 136,956; Nov. 9; v. 280; p. 384.
Spark-plugs. The Visible Spark Plug Co. No. 130,968; May 4; v. 274; p. 192.
Spark-plugs and spark-plug porcelains. Lockwood-Ash Motor Company. No. 138,395; Dec. 21; v. 281; p. 579.
Spark-plugs for internal-combustion engines. L. F. Benton Company. No. 136,268; Oct. 26; v. 279; p. 727.
Spark-timer for automobile-engines, Electric. R. B. Lacey. No. 131,794; May 25; v. 274; p. 832.
Spark-timers and electric coils. J & B Manufacturing Company. No. 135,472; Oct. 12; v. 279; p. 344.
Sparking plugs for internal-combustion engines. Forward Sparking Plug Co. No. 132,943; July 6; v. 276; p. 201.
Sparklers. Victory Sparkler Company. No. 130,966; May 4; v. 274; p. 192.
Spectacle and eyeglass frames, &c. Standard Optical Co. No. 128,863; Jan. 13; v. 270; p. 343.
Spectacles, &c. Martin-Copeland Company. No. 128,449; Jan. 6; v. 270; p. 182.
Spectacles and eyeglasses, Frames of. Bay State Optical Company. No. 132,234; June 22; v. 275; p. 815.
Spectacles, eyeglasses, &c. Wall & Ochs. Nos. 135,549–50; Oct. 12; v. 279; p. 346.
Spectacles, eyeglasses, eyeglass-mountings, opthalmic lenses, &c. Wall & Ochs. No. 133,338; July 20; v. 276; p. 593.
Speedometers. T. Farmer, Jr. No. 131,458; May 18; v. 274; p. 603.
Sphygmomanometers. W. A. Baum Co. No. 128,307; Jan. 6; v. 270; p. 178.
Sponges and chamois. Albert Block & Sons. No. 137,952; Dec. 14; v. 281; p. 396.
Sponges and chamois. Schroeder & Tremayne. No. 130,107; Apr. 6; v. 273; p. 181.
Spoons, Wooden. J. H. Mulholland. No. 133,167; July 13; v. 276; p. 403.
Spray for animals. Lyster Chemical Company. No. 128,771; Jan. 13; v. 270; p. 340.
Spray for animals, Liquid. Lesser Manufacturing Company. No. 131,796; May 25; v. 274; p. 832.
Spray, Medicinal antiseptic. John Wyeth & Brothers. No. 131,889; May 25; v. 274; p. 835.
Sprayers and parts thereof for spraying trees, &c. Albert Lea Sprayer Company. No. 135,817; Oct. 19; v. 279; p. 532.
Spraying devices. W. N. Matthews and Brother. No. 134,181; Aug. 17; v. 277; p. 582.
Springs and mattresses, Bed and couch. Shott Manufacturing Company. No. 133,509; July 27; v. 276; p. 771.
Springs and spring-plates and leaves for such springs, Vehicle-. Higgins Spring & Axle Company. No. 134,378; Aug. 31; v. 277; p. 972.
Springs, Lubricating strips for leaf-. Merrill-Hamilton Company. No. 136,097; Oct. 26; v. 279; p. 721.
Sprinklers, Automatic. R. W. Newton. No. 133,172; July 13; v. 276; p. 403.
Sprout and other fish hooks. S. Allcock & Co. No. 130,026; Apr. 6; v. 273; p. 179.
Sprocket-chain links. Spaulding Chain Corporation. No. 135,815; Oct. 19; v. 279; p. 532.
Stains, Wood-. The Tripod Paint Co. No. 137,515; Nov. 23; v. 280; p. 804.
Stairway treads and panels, floors, &c. American Abrasive Metals Co. No. 128,594; Jan. 13; v. 270; p. 335.
Stalls and doors and shower bath partitions, Toilet. Betz Bros., Inc. No. 134,857; Sept. 14; v. 278; p. 363.
Stamp-canceling and postmarking, Hand devices for. Columbia Postal Supply Company. No. 136,781; Nov. 9; v. 280; p. 378.
Stamps or coupons, Trading-. S. V. D'Unger. No. 138,358; Dec. 21; v. 281; p. 567.
Stamps, Time-. J. Levy. No. 130,537; Apr. 27; v. 273; p. 803.
Stamps, Trading-. Browning & Sanders. No. 136,764; Nov. 9; v. 280; p. 378.
Stamping and pressed-metal parts, Sheet-metal. Worcester Pressed Steel Company. No. 136,993; Nov. 9; v. 280; p. 385.
Stands or supports especially designed for holding sad-irons. H. L. Galbraith. No. 136,004; Oct. 26; v. 279; p. 718.
Staple forming and affixing machines and parts. Hutchison Office Specialties Co. No. 130,191; Apr. 13; v. 273; p. 402.
Staple making and driving machines. Eveready Mfg. Company of Boston. No. 135,988; Oct. 26; v. 279; p. 718.
Starch. H. Kohnstamm & Co. No. 131,522; May 18; v. 274; p. 605.
Starch-glue material. Perkins Glue Company. No. 129,200; Jan. 27; v. 270; p. 615.
Starch product. Stein-Hall Manufacturing Company. No. 128,866; Jan. 13; v. 270; p. 343.
Starch product for an ingredient in baking. Stein-Hall Manufacturing Company. No. 129,085; Jan. 20; v. 270; p. 476.
Starters, Impulse-. Eisemann Magneto Corporation. No. 132,134; June 15; v. 275; p. 616.
Stationery. Eagle Pencil Company. No. 129,958; Mar. 9; v. 272; p. 370.
Stationery. Enlow Co. No. 128,683; Jan. 13; v. 270; p. 338.
Stationery. The A. S. Gilman Printing Company. No. 129,728; Mar. 9; v. 272; p. 363.
Stationery. T. Nakayama. No. 135,021; Sept. 21; v. 278; p. 533.
Stationery. Wanderer-Werke, vorm. Winklhofer & Jaenicke Aktiengesellschaft. No. 136,248; Oct. 26; v. 279; p. 726.
Stationery. White & Wyckoff Manufacturing Company. No. 133,543; July 27; v. 276; p. 772.
Stationery articles. William Mitchell (Pens). No. 131,802; May 25; v. 274; p. 832.
Stationery articles, eyelets for fastening purposes and instruments for inserting same. Machine Appliance Corporation. No. 132,195; June 15; v. 275; p. 618.
Staves. Foxley Stave & Lumber Co., Ltd. No. 134,860; Sept. 14; v. 278; p. 363.
Staybolt-taps. W. L. Brubaker & Bros. No. 133,220; July 20; v. 276; p. 589.
Stays, straps, &c., for use in the manufacture of harness, trunks, and bags. United Stay Company. No. 133,854; Aug. 3; v. 277; p. 178.
Steam-engineering appliances, &c. Nash Engineering Co. No. 129,191; Jan. 27; v. 270; p. 615.
Steel. The Apex Steel Co. Nos. 129,119–20; Jan. 27; v. 270; p. 613.
Steel. A. C. Davidson. No. 128,670; Jan. 13; v. 270; p. 337.
Steel. R. Grant. No. 130,737; May 4; v. 274; p. 185.
Steel. Heppenstall Forge & Knife Company. No. 135,692. Oct. 19; v. 279; p. 528.
Steel. Heppenstall Forge & Knife Company. Nos. 136,457–8; Nov. 2; v. 280; p. 182.
Steel. J. R. Hogan. No. 131,323; May 11; v. 274; p. 400.
Steel. The National Pressed Steel Company. No. 136,549; Nov. 2; v. 280; p. 185.
Steel. Quigley Furnace Specialties Co. No. 137,378; Nov. 23; v. 280; p. 797.
Steel. Spear & Jackson. Nos. 138,126–7; Dec. 14; v. 281; p. 401.
Steel. Stavanger Electro-Staalverk, A. S. No. 135,536; Oct. 12; v. 279; p. 345.
Steel and anvils, Tool, high-speed, &c. M. Wardlow. No. 137,899; Dec. 7; v. 281; p. 199.
Steel and carbon twist-drill steel, Drill-. Ludlum Steel Company. No. 137,826; Dec. 7; v. 281; p. 197.
Steel and iron, Structural. New England Structural Company. No. 132,464; June 22; v. 275; p. 821.
Steel and steel castings, Bar-. Darwin & Milner. No. 129,145; Jan. 27; v. 270; p. 614.
Steel, Ball-bearing. Ludlum Steel Company. No. 137,824; Dec. 7; v. 281; p. 197.
Steel, Ball-bearing. Ludlum Steel Company. No. 137,827; Dec. 7; v. 281; p. 197.
Steel, Bars of open-hearth. Pollak Steel Company. No. 129,050; Jan. 20; v. 270; p. 475.
Steel bars, rods, &c. Crucible Steel Company of America. Nos. 129,138–42; Jan. 27; v. 270; p. 614.
Steel bars, rods, billets, &c. Crucible Steel Company of America. No. 131,439; May 18; v. 274; p. 602.
Steel bars, rods, billets, &c. Crucible Steel Company of America. No. 132,345; June 22; v. 275; p. 817.
Steel bars, rods, billets, &c. Sanderson Bros. & Co. No. 133,507; July 27; v. 276; p. 771.
Steel bars, rods, billets, blooms, forgings, &c. Crucible Steel Company of America. No. 134,164; Aug. 17; v. 277; p. 581.
Steel bars, rods, blocks, and forgings. Crucible Steel Company of America. Nos. 130,691–2; May 4; v. 274; p. 184.
Steel, Cold-drawn. Wyckoff Drawn Steel Co. No. 134,206; Aug. 17; v. 277; p. 582.
Steel, &c., Composition for tempering. H-B Tempering Process Co. No. 131,477; May 18; v. 274; p. 603.
Steel, Drill and tool. Andersen, Meyer & Co. No. 130,458; Apr. 27; v. 273; p. 801.
Steel furnishings and products. Bisk Corporation. No. 137,949; Dec. 14; v. 281; p. 395.
Steel, Hot and cold rolled strip. Superior Steel Corporation. No. 138,137; Dec. 14; v. 281; p. 401.
Steel, Iron, &c., Wrought. Connecticut Electric Steel Co. No. 132,916; July 6; v. 276; p. 200.
Steel, Magnet-. Ludlum Steel Company. No. 137,823; Dec. 7; v. 281; p. 197.
Steel, Non-corrosive. Ludlum Steel Company. No. 137,825; Dec. 7; v. 281; p. 197.
Steel, Structural. McClintic-Marshall Products Company. No. 132,014; June 8; v. 275; p. 415.
Steel, Tool-. The Carpenter Steel Company. No. 136,358; Nov. 2; v. 280; p. 179.
Steel, Tool-. Edgar T. Ward's Sons Co. No. 134,203; Aug. 17; v. 277; p. 582.
Steel, Tool-. Hercules Electric Steel Corporation. No. 132,703; June 29; v. 275; p. 1016.

Digitized by Google

Alphabetical list of trade-marks—Continued.

Steel, Tool and gear. Liberty Steel Products Co. No. 130,538; Apr. 27; v. 273; p. 803.
Steel. Unwrought and partly-wrought. Moses Eadon & Sons. No. 131,449; May 18; v. 274; p. 602.
Steering device for motor-vehicles, Automatic. T. F. Robinson. No. 132,042; June 8; v. 275; p. 416.
Steering-gears and motor-vehicles. Gemmer Manufacturing Company. No. 135,179; Sept. 21; v. 278; p. 539.
Stencils. L. Wallenstein. No. 135,846; Oct. 19; v. 279; p. 533.
Stencils, oil-board, wax seals, and rubber bands. Henry Moss & Co. No. 135,020; Sept. 21; v. 278; p. 533.
Sterilizers, Electric. The Automatic Electric Sterilizer Co. No. 131,028; May 4; v. 274; p. 194.
Stickers, Adhesive printed. Portland Label Co. No. 129,832; Mar. 9; v. 272; p. 367.
Stimulant and tonic for diseases of the nervous system, bones, &c. Italian Drugs Importing Co. No. 129,364; Feb. 17; v. 271; p. 508.
Stimulant to the stomach and digestive tract, Anti-acid carminative. International Consolidated Chemical Corporation. No. 137,274; Nov. 23; v. 280; p. 794.
Stock-dipping powder and fluid, Live-. Sheep and Cattle Men's Supply Manufacturing Company. No. 131,620; May 18; v. 274; p. 608.
Stockings and socks. Louis Brun Fils. Nos. 130,659–60; May 4; v. 274; p. 183.
Stoking attachment for furnaces. G. A. Kohout. No. 129,989; Mar. 16; v. 272; p. 539.
Stone for scouring kitchen utensils, Rubbing-. E. Mueller. No. 132,209; June 15; v. 275; p. 619.
Store-fronts and parts thereof, Knockdown. Detroit Show Case Company. No. 135,970; Oct. 26; v. 279; p. 717.
Stove and nickel polishes. De Master & De Master. No. 138,181; Dec. 14; v. 281; p. 404.
Stove and shoe polishes, stove and shoe polishing outfits, and shoe-cleaner. W. R. Hollingshead Co. No. 133,993; Aug. 10; v. 277; p. 388.
Stove-linings, Steel. Detroit Stove Works. No. 130,290; Apr. 20; v. 273; p. 620.
Stove-polish. Grand Union Tea Co. No. 131,127; May 4; v. 274; p. 197.
Stove-polish. A. Hinkley. No. 131,139; May 4; v. 274; p. 197.
Stove-polish. Hoosier Chemical Company. No. 134,682; Sept. 14; v. 278; p. 356.
Stove-polishes. Merrimac Packing Co. No. 136,274; Oct. 26; v. 279; p. 727.
Stove, range, &c., paste or polish. Société Anonyme des Produits du Lion Noir. No. 136,941; Nov. 9; v. 280; p. 383.
Stoves. The Estate Stove Company. No. 138,000; Dec. 14; v. 281; p. 397.
Stoves, Alcohol-. F. Chapman. No. 132,910; July 6; v. 276; p. 200.
Stoves and heaters, Gas, vapor, and oil. American Stove Company. No. 137,907; Dec. 7; v. 281; p. 200.
Stoves, and parts of same, Heating and cooking. Detroit Stove Works. No. 135,971; Oct. 26; v. 279; p. 717.
Stoves, Coal-. Delaware Electric & Supply Co. No. 131,973; June 8; v. 275; p. 413.
Stoves, &c., Electric air-heating. The Estate Stove Company. No. 137,999; Dec. 14; v. 281; p. 397.
Stoves, Gas-. General Gas Light Co. No. 136,809; Nov. 9; v. 280; p. 379.
Stoves, Gas, oil, and coal burning. The Detroit Vapor Stove Company. No. 130,062; Apr. 6; v. 273; p. 180.
Stoves or ovens, Gas, coal, and oil. Elgin Stove & Oven Co. No. 128,370; Jan. 6; v. 270; p. 180.
Stoves, ovens, plates, Gas. The L. A. Athoff Mfg. Co. No. 131,954; June 8; v. 275; p. 413.
Stoves, ranges, and heaters. Steiger & Kerr Stove & Foundry Co. No. 132,819; June 29; v. 275; p. 1019.
Stovepipe and elbows. Hemp and Co. (Corp.) No. 133,426; July 27; v. 276; p. 769.
Stovepipe, gas, coal and wood stoves, portable ovens. Wm. Enders Manufacturing Company. No. 130,177; Apr. 13; v. 273; p. 402.
Stovepipes and elbows. Hemp & Co. (Corp.). Nos. 132,962–4; July 6; v. 276; p. 201.
Straps, Wrist-watch. M. Hirsch. No. 133,702; Aug. 3; v. 277; p. 173.
Straw-spreaders of the trailer type. Kramer Rotary Harrow Co. No. 136,059; Oct. 26; v. 279; p. 720.
Straws, Drinking-. Albert Pick & Company. No. 136,900; Nov. 9; v. 280; p. 382.
Strop-dressing for sharpening razors. J. W. Payne. No. 138,083; Dec. 14; v. 281; p. 400.
Strops. The Henkel-Clauss Co. No. 135,691; Oct. 19; v. 279; p. 528.
Stucco, Composition for use as. American Magnesia Products Co. No. 132,080; June 15; v. 275; p. 615.
Sugar. American Sugar Refining Co. No. 131,021; May 4; v. 274; p. 193.
Sugar. H. L. Day Company. No. 131,441; May 18; v. 274; p. 602.
Sugar. R. M. McMullen. No. 128,777; Jan. 13; v. 270; p. 341.
Sugar. The Tropics Corporation. No. 134,106; Aug. 10; v. 277; p. 391.
Sugar, American wheat-flour, tea. Lamborn & Co. No. 134,406; Aug. 31; v. 277; p. 973.
Sugar and a syrup thereof, Non-fermentable-body. O. W. Bonn. No. 137,563; Nov. 30; v. 280; p. 996.
Sugar and cinnamon combination. M. C. McKenna. No. 130,807; May 4; v. 274; p. 187.
Sugar and fruit syrups, Maple-cane. The Barrel Syrup Co. No. 135,908; Oct. 26; v. 279; p. 716.
Sugar-drops, butter bonbons, &c., Boiled. James Pascall, Ltd. No. 130,221; Apr. 13; v. 273; p. 403.
Sugar, Granulated cane-. Federal Sugar Refining Company. No. 133,412; July 27; v. 276; p. 768.
Sugar, Maple-. L. L. Bowles. No. 134,220; Aug. 24; v. 277; p. 777.
Sugar tablets and lozenges. American Confectionery Syndicate. No. 132,283; June 22; v. 275; p. 815.
Suitings and dress goods. Lesher, Whitman & Co. No. 136,070; Oct. 26; v. 279; p. 720.
Suitings in the piece. Jas. J. Regan Mfg. Co. No. 128,498; Jan. 6; v. 270; p. 183.
Suits and coats for women. Bernstein, Baum, Da Costa Company. No. 132,301; June 22; v. 275; p. 815.
Suits and coats, Ladies'. Philip Mangone Co. No. 137,677; Nov. 30; v. 280; p. 999.
Suits and coats, Women's sporting. Gimbel Brothers. No. 131,759; May 25; v. 274; p. 881.
Suits and knickerbockers, Boys'. Elgart Specialty Clothing Co. No. 135,234; Sept. 28; v. 278; p. 702.
Suits and men's pants, Men's and boys'. Bogatzky Bros. & Co. No. 137,493; Nov. 23; v. 280; p. 802.
Suits and overcoats, Boys'. Cohen & Lang. No. 137,575; Nov. 30; v. 280; p. 996.
Suits and overcoats, Men's. Cohen & Lang. No. 137,576; Nov. 30; v. 280; p. 996.
Suits and overcoats, Boys'. Imperial Garments Co. No. 130,523; Apr. 27; v. 273; p. 803.
Suits and overcoats, Men's. Feldman, Emanuel & Company. No. 135,440; Oct. 12; v. 279; p. 343.
Suits and overcoats, Men's. Harry Hindlemann, Inc. No. 130,315; Apr. 20; v. 273; p. 621.
Suits and overcoats, Men's. B. H. Levy & Bro. & Co. No. 130,794; May 4; v. 274; p. 187.
Suits and overcoats, Men's. B. H. Levy Bros. & Co. No. 131,166; May 4; v. 274; p. 198.
Suits and overcoats, Men's and young men's. S. Bacharach and Company. No. 134,582; Sept. 14; v. 278; p. 353.
Suits and overcoats, Men's and youths'. W. P. Goldman & Bros. Inc. No. 131,124; May 4; v. 274; p. 197.
Suits and overcoats, Men's outer. C. D. Levin. No. 133,719; Aug. 3; v. 277; p. 174.
Suits and overcoats of water-shedding material. Isaac Hamburger & Sons. No. 131,768; May 25; v. 274; p. 851.
Suits and rompers, Children's. Kiddie Kover Manufacturing Company. No. 130,778; May 4; v. 274; p. 186.
Suits, Boys'. Hessberg, Morris & Gunst. No. 133,260; July 20; v. 276; p. 591.
Suits, Boys'. L. Straus. No. 132,551; June 22; v. 275; p. 824.
Suits, Children's sleeping-. R. H. Macy & Co. No. 135,010; Sept. 21; v. 278; p. 533.
Suits, coats, and pants. American Novelty-Wash Suit Co. No. 132,285; June 22; v. 275; p. 815.
Suits, coats, and overcoats, Men's and boys' outer. Kahn Dreyfus & Co. No. 136,489; Nov. 2; v. 280; p. 183.
Suits, coats, skirts, dresses. L. Harrison. No. 128,721; Jan. 13; v. 270; p. 339.
Suits, coats, vests, &c., Men's and boys'. Leopold Solomon and Eisendrath. No. 131,165; May 4; v. 274; p. 198.
Suits, coats, waists, dresses, and skirts, Ladies', misses', and children's. J. Eckstein. No. 133,640; Aug. 3; v. 277; p. 171.
Suits, dresses, and skirts, Women's. Kux Brothers. No. 130,788; May 4; v. 274; p. 187.
Suits for men and boys, Outer. Kahn Dreyfus & Co. No. 138,236; Dec. 21; v. 281; p. 563.
Suits, Men's. Hays, Levi & Co. No. 131,134; May 4; v. 274; p. 197.
Suits, Men's. G. W. Smith. No. 135,337; Sept. 28; v. 278; p. 705.
Suits, Outing and hiking. Myers Manufacturing Company. No. 129,510; Feb. 24; v. 271; p. 680.
Suits, overcoats, and caps, Boys'. I. Gross. No. 134,961; Sept. 21; v. 278; p. 531.
Suits, overcoats, and pants for children and boys. Armor-Clad Boy's Clothes Co. No. 129,109; Jan. 20; v. 270; p. 477.
Suits, overcoats, coats, vests, and trousers, Men's and boys'. Siff Bros. Co. No. 132,525; June 22; v. 275; p. 823.
Suits, overcoats, shirts, &c., for men and boys. Samuel Livingston & Son. No. 135,733; Oct. 19; v. 279; p. 529.
Suits, pants, &c., for men and boys. S. W. Lew. No. 129,366; Feb. 17; v. 271; p. 508.
Suits, shirts, and drawers, Union-. Morris Isaac & Sons, No. 135,265; Sept. 28; v. 278; p. 703.
Suits, trousers, &c., Boys'. Goodman & Wiedman. No. 129,462; Feb. 24; v. 271; p. 678.
Suits, Young men's three-piece. Samuel W. Peck & Co. No. 135,039; Sept. 21; v. 278; p. 534.
Suits, Youths' and boys' ready-made. Goodman & Co. No. 137,241; Nov. 23; v. 280; p. 793.

Suitcases and traveling bags. W. R. Dickson. No. 137,986; Dec. 14; v. 281; p. 397.
Sulfur. Great Southern Sulphur Company. No. 136,017; Oct. 26; v. 279; p. 719.
Sulfur. Flowers of. California Wine Association. No. 138,225; Dec. 21; v. 281; p. 563.
Suppositories, Alkaline antiseptic. Sharp & Dohme. No. 131,611; May 18; v. 274; p. 608.
Suppositories, Rectal. J. B. Gooken. No. 134,663; Sept. 14; v. 278; p. 356.
Suppository, Anodyne astringent. Sharp & Dohme. No. 137,447; Nov. 23; v. 280; p. 799.
Surface finishing or treating compound. C. L. Cox. No. 137,172; Nov. 23; v. 280; p. 791.
Surgical appliances. Dental Products Company. No. 133,115; July 13; v. 276; p. 401.
Surgical dressing, Plastic. Saxo Chemical Co. No. 132,510; June 22; v. 275; p. 822.
Surgical instruments. Mount Vernon Company Silversmiths. No. 136,871; Nov. 9; v. 280; p. 381.
Suspenders. The Russell Manufacturing Company. No. 135,792; Oct. 19; v. 279; p. 531.
Suspenders and dress-shields. McDonald Bros. Co. No. 132,015; June 8; v. 275; p. 415.
Suspenders and garters. Nu-Way Strech Suspender Company. No. 131,203; May 4; v. 274; p. 199.
Suspenders and men's garters. J. Ziff. No. 131,008; May 4; v. 274; p. 193.
Suspenders, garters, and belts. Otis Suspender Company. No. 132,030; June 8; v. 275; p. 415.
Suspenders, garters, armbands, &c. J. Silberman. No. 130,917; May 4; v. 274; p. 190.
Suspenders, garters, hose-supporters, &c. Rice-Stix Dry Goods Company. No. 130,881; May 4; v. 274; p. 189.
Suspenders, waist-belts for supporting wearing-apparel, &c. Lion Manufacturing Company. No. 131,171; May 4; v. 271; p. 198.
Suspensory straps. New-Energy Appliance Company. No. 130,846; May 4; v. 274; p. 188.
Sweater-coats. Watts, Ritter & Company. No. 133,865; Aug. 3; v. 277; p. 178.
Sweaters. Bee Ess Knitting Mills. No. 130,462; Apr. 27; v. 273; p. 801.
Sweaters. Phillips-Doscher Corporation. No. 130,387; Apr. 20; v. 273; p. 623.
Sweaters and cardigan jackets. H. J. Auerbach. No. 137,103; Nov. 23; v. 280; p. 789.
Sweaters, bathing-suits. Amer Knitting Mills. No. 133,203; July 20; v. 276; p. 589.
Sweaters, bathing-suits, underwear, and hosiery. Navy Knitting Mills, Inc. No. 129,031; Jan. 20; v. 270; p. 474.
Sweaters, blouses, work-shirts, &c. Excello Merchandise Co. No 135,237; Sept. 28; v. 278; p. 702.
Sweaters, Knitted. The Pennsylvania Knitting Mills. No. 137,676; Nov. 30; v. 280; p. 999.
Sweaters, neckscarfs, shawls, &c. Louis Metzger & Company. No. 138,489; Dec. 28; v. 281; p. 783.
Sweaters, shawls, scarfs, hoods, and caps. Imperial Knitting Co. No. 133,436; July 27; v. 276; p. 769.
Sweepers, Electric suction-. Hoover Suction Sweeper Company. No. 130,756; May 4; v. 274; p. 186.
Sweepers, Electric suction-. Hoover Suction Sweeper Company. No. 132,170; June 15; v. 275; p. 618.
Sweeping compound. A. R. Wolff. No. 135,561; Oct. 12; v. 279; p. 346.
Swingletrees, &c., for vehicles and swingletrees for farm implements. The Farm Equipment Co. No. 134,358; Aug. 31; v. 277; p. 971.
Swings and suspending-hangers. The Au-To Play Goods Company. No. 137,767; Dec. 7; v. 281; p. 195.
Switch for ignition systems, Electrical testing. Scott Corporation. No. 132,518; June 22; v. 275; p. 822.
Switches, switch and panel boards, &c. The Trumbull Electric Manufacturing Company. No. 135,829; Oct. 19; v. 279; p. 532.
Syrup and beverage made from the same, Concentrated. Fruit Valley Corporation. No. 131,466; May 18; v. 274; p. 603.
Syrup and beverage made therefrom, non-alcoholic malt-less. Richardson Corporation. No. 134,781; Sept. 14; v. 278; p. 359.
Syrup and beverage, Non-alcoholic. Bludwine Company. No. 135,916; Oct. 26; v. 279; p. 716.
Syrup and beverage, Non-alcoholic. I. C. Chaplin. No. 128,328; Jan. 6; v. 270; p. 178.
Syrup and molasses. Dunbar Molasses & Syrup Co. No. 137,500; Nov. 23; v. 280; p. 803.
Syrup and non-alcoholic beverages made from same. Fruit Valley Corporation. No. 131,755; May 25; v. 274; p. 831.
Syrup and sugar and food-flavoring compound, Compound table-. F. N. Argo. No. 131,954; June 8; v. 275; p. 413.
Syrup, Blended cane, and maple table-. Vermont Maple Syrup Company. No. 134,116; Aug. 10; v. 277; p. 391.
Syrup, Cane-. Malone & Hyde. No. 134,386; Aug. 31; v. 277; p. 972.
Syrup, Cane and maple. The F. N. Johnson Maple Syrup Company. No. 134,002; Aug. 10; v. 277; p. 388.
Syrup, Chocolate. W. C. Cushman. No. 128,852; Jan. 6; v. 270; p. 179.
Syrup, Cooking-. W. M. Brownell. No. 130,270; Apr. 20; v. 273; p. 619.
Syrup, Corn and cane. Dotham Syrup Co. No. 128,366; Jan. 6; v. 270; p. 179.
Syrup, Corn table-. Penick & Ford, Ltd. No. 137,363; Nov. 23; v. 280; p. 797.
Syrup, Food-. F. G. Stewart. No. 132,055; June 8; v. 275; p. 416.
Syrup for baking purposes, Food-. O. E. Maurer. No. 134,023; Aug. 10; v. 277; p. 389.
Syrup for baking purposes, Malt-. O. E. Maurer. No. 131,183; May 4; v. 274; p. 198.
Syrup for food purposes, Baker's. Augusta Ice & Beverage Company. No. 135,902; Oct. 26; v. 279; p. 715.
Syrup for making non-alcoholic beverages. C. A. Fowler. No. 132,145; June 15; v. 275; p. 617.
Syrup for making non-alcoholic, non-cereal beverages. C. A. Fowler. No. 133,660; Aug. 3; v. 277; p. 172.
Syrup for making soft drinks. Columbia Chemical Corporation. No. 129,275; Feb. 10; v. 271; p. 355.
Syrup for non-alcoholic beverages. The Nulomoline Company; No. 131,809; May 25; v. 274; p. 833.
Syrup for soda-water beverages, Non-alcoholic non-cereal maltless. Keystone Fruit Products Company. No. 134,007; Aug. 10; v. 277; p. 388.
Syrup for sweetening foods. The Baltimore Pearl Hominy Company. No. 135,905; Oct. 26; v. 279; p. 715.
Syrup for table use. Seattle & Puget Sound Packing Company. No. 135,530; Oct. 12; v. 279; p. 345.
Syrup made of cane-sugar. Archbold Manufacturing Corporation. No. 130,622; May 4; v. 274; p. 181.
Syrup, Malt. Northwestern Brewers Supply Co. No. 133,768; Aug. 3; v. 277; p. 175.
Syrup, Malt. C. T. Zirkle. No. 132,601; June 22; v. 275; p. 825.
Syrup, Malt and corn. Glacier Products Company. No. 130,734; May 4; v. 274; p. 185.
Syrup, Maltose-. La Crosse Refining Company. No. 136,506; Nov. 2; v. 280; p. 184.
Syrup, Maple table-. Vermont Maple Syrup Company. No. 133,859; Aug. 3; v. 277; p. 178.
Syrup, non-alcoholic, maltless, Simple. L. J. Barnes. No. 138,379; Dec. 21; v. 281; p. 569.
Syrup, Non-intoxicating fruit-. Celro-Kola Co. No. 132,105; June 15; v. 275; p. 616.
Syrup of malt and hops, Non-alcoholic. United States Syrup Co. No. 137,890; Dec. 7; v. 281; p. 199.
Syrup, Orange table-. Southern California Products Company. No. 132,537; June 22; v. 275; p. 823.
Syrup, Pineapple-extract. Pearl City Fruit Co. No. 131,572; May 18; v. 274; p. 607.
Syrup, Table. J. S. Bierhaus. No. 132,628; June 29; v. 275; p. 1013.
Syrup, Table-. J. R. Cargill. No. 133,371; July 27; v. 276; p. 767.
Syrup, Table-. The L. and T. Company. No. 132,985; July 6; v. 276; p. 202.
Syrup, Table-. Nulomoline Company. No. 130,878; Apr. 20; v. 273; p. 622.
Syrup, Table-. Penick & Ford, Ltd. No. 137,362; Nov. 23; v. 280; p. 797.
Syrup to make soft-drink beverages, Non-alcoholic. E. Bernstein. No. 135,397; Oct. 12; v. 279; p. 341.
Syrup used as a flavor for a soft drink, Concentrated. Mickey Company. No. 132,460; June 22; v. 275; p. 821.
Syrup used for food. G. M. Allen. No. 132,604; June 29; v. 275; p. 1013.
Syrup used for food purposes, Malt. Eflorose Sugar Co. No. 133,959; Aug. 10; v. 277; p. 387.
Syrup used in making non-alcoholic beverages, Concentrated. Celro-Kola Co. No. 136,364; Nov. 2; v. 280; p. 179.
Syrup used in the preparation of beverages. The Spearmintx Co. No. 133,827; Aug. 3; v. 277; p. 177.
Syrups and beverages made therefrom, Non-alcoholic. W. M. Williams. No. 135,560; Oct. 12; v. 279; p. 346.
Syrups, Bakers' and confectioners'. Philadelphia Malt Extract Company. No. 131,210; May 4; v. 274; p. 199.
Syrups, Cereal and sugar. The Nulomoline Company. No. 134,046; Aug. 10; v. 277; p. 389.
Syrups, Corn and cane products. Hardaway-Cargill Co. No. 130,183; Apr. 13; v. 273; p. 402.
Syrups, Corn and maltose. Young & Wile. No. 133,200; July 13; v. 276; p. 404.
Syrups, flavors, and flavoring extracts for soft drinks. H. J. Stein. No. 138,133; Dec. 14; v. 281; p. 401.
Syrups manufactured from cocoa and sugar. Lawden Company. No. 129,016; Jan. 20; v. 270; p. 474.
Syrups, Table-. Nulomoline Company. No. 130,852; May 4; v. 274; p. 188.
Syrups, Table-. J. Stromeyer. No. 136,205; Oct. 26; v. 279; p. 725.
Syrups, Sugar-cane. Crockett and Well. No. 137,499; Nov. 23; v. 280; p. 803.
Syrups used in making soft drinks. Ansac Company. No. 131,701; May 25; v. 274; p. 829.
Syrups used in making soft drinks. H. Herman. No. 136,029; Oct. 26; v. 279; p. 719.
Table covers, napkins, &c. Arsenio Jose Froes & Company. No. 130,626; May 4; v. 274; p. 182.
Table-syrup and syrup for sweetening foods. The Baltimore Pearl Hominy Company. No. 135,906; Oct. 26; v. 279; p. 715.

Digitized by Google

Alphabetical list of trade-marks—Continued.

Tables and cabinets, Kitchen. Blue Bird Manufacturing Company. No. 133,215; July 20; v. 276; p. 589.
Tables, Kitchen-. Mutschler Bros. Co. No. 129,998; Mar. 16; v. 272; p. 540.
Tables, Office and directors'. Mutschler Bros. Co. No. 129,997; Mar. 16; v. 272; p. 539.
Tables, Portable serving-. Tennessee Furniture Corporation. No. 137,719; Nov. 30; v. 280; p. 1001.
Tables, Serving-. The John Van Range Co. No. 134,839; Sept. 14; v. 278; p. 361.
Tablet, Kidney, liver, and bladder. H. A. Foster. No. 138,451; Dec. 28; v. 281; p. 782.
Tablet, Laxative. H. E. Hovehmale. No. 131,494; May 18; v. 274; p. 604.
Tablet, Medicinal. G. W. Carnick Co. No. 133,372; July 27; v. 276; p. 767.
Tablet, Medicinal. M. A. Loyer. No. 132,732; June 29; v. 275; p. 1017.
Tablet or wafer, Laxative. J. O. Williamson. No. 131,884; May 25; v. 274; p. 835.
Tablets. Preston Chemical Company. No. 133,491; July 27; v. 276; p. 771.
Tablets and blank books, Writing, &c. J. C. Blair Company. No. 137,557; Nov. 30; v. 280; p. 996.
Tablets and papers and envelops, Writing. The Wynne Paper Co. No. 134,146; Aug. 10; v. 277; p. 392.
Tablets and papers, envelops, Writing. Wynne Paper Co. No. 129,107; Jan. 20; v. 270; p. 477.
Tablets and powdered cleanser, Laundry-. T. R. Ponto. No. 136,997; Nov. 9; v. 280; p. 385.
Tablets and tonic, Laxative. Retona Products Company. No. 134,779; Sept. 14; v. 278; p. 359.
Tablets, Anesthetic. Dental Products Company. No. 134,927; Sept. 21; v. 278; p. 530.
Tablets, Antibilious. J. R. Hodges. No. 138,464; Dec. 28; v. 281; p. 782.
Tablets, Antiseptic. C. L. Hughes. No. 129,289; Feb. 10; v. 271; p. 356.
Tablets, Antiseptic, &c. W. H. Noll. No. 129,516; Feb. 24; v. 271; p. 680.
Tablets, envelops, &c., Writing-. Osborn Paper Co. No. 134,424; Aug. 31; v. 277; p. 973.
Tablets for colds, chills, and fever, &c., Medicinal. J. W. Sheffield. No. 132,805; June 29; v. 275; p. 1019.
Tablets for increasing the efficiency of gasolene, Chemical. I. R. Neher. No. 134,420; Aug. 31; v. 277; p. 973.
Tablets, Herb. S. D. Clegg. No. 135,950; Oct. 26; v. 279; p. 717.
Tablets, Laundry. Werth Mor Mfg. Co. No. 128,572; Jan. 6; v. 270; p. 186.
Tablets, Laxative. G. G. Dillow. No. 134,631; Sept. 14; v. 278; p. 355.
Tablets, Laxative. The Zensal Company of Oklahoma City. No. 136,714; Nov. 2; v. 280; p. 190.
Tablets, Medicated. C. S. Mills. No. 132,461; June 22; v. 275; p. 821.
Tablets, Medicinal. The Maltbie Chemical Company. No. 132,452; June 22; v. 275; p. 820.
Tablets, Memorandum. R. J. Bell. No. 132,297; June 22; v. 275; p. 815.
Tablets, Phenolphthalein. The William S. Merrell Company. No. 138,485; Dec. 28; v. 281; p. 783.
Tablets, pills, and capsules, Headache-. Eli Lilly & Company. No. 134,999; Sept. 21; v. 278; p. 533.
Tablets, Stomach and liver. Krieg Wallace & McQuaide. No. 128,754; Jan. 13; v. 270; p. 340.
Tablets, Writing-. The H. D. Lee Mercantile Co. No. 131,529; May 18; v. 274; p. 605.
Tablets, Writing-. A. Plough. No. 131,821; May 25; v. 274; p. 833.
Tablets, Writing-. United Drug Company. No. 128,554; Jan. 6; v. 270; p. 185.
Tackle and pulley blocks. Marine Decking & Supply Co. No. 132,454; June 22; v. 275; p. 820.
Tackle-blocks, Wood and steel shell. Marine Equipment and Supply Co. No. 130,356; Apr. 20; v. 273; p. 622.
Tag-affixing machines. The Tagit Company. No. 136,957; Nov. 9; v. 280; p. 384.
Tags, Blank or partly-printed. H. S. Balson. No. 137,109; Nov. 23; v. 280; p. 789.
Tags, Job and delivery. Albert Jacobs Company. No. 131,143; May 4; v. 274; p. 197.
Tags, Shipping-. Denney Tag Company. Nos. 128,356–60, Jan. 6; v. 270; p. 179.
Tags used on insulated wires, Tubular. M. H. Loughridge. No. 128,766; Jan. 13; v. 270; p. 340.
Talc. Inyo Talc Company. Nos. 135,468–9; Oct. 12; v. 279; p. 343.
Talc. V. Vivaudou. No. 136,975; Nov. 9; v. 280; p. 384.
Talcums, face-powder, perfumes, &c. Agra Company. No. 137,525; Nov. 30; v. 280; p. 995.
Talking-board or question-answering device. C. C. Turner. No. 135,349; Sept. 28; v. 278; p. 706.
Talking-boards. W. Fuld. No. 137,521; Nov. 23; v. 280; p. 805.
Talking-machine cabinets. C. J. Lundstrom Mfg. Co. No. 128,436; Jan. 6; v. 270; p. 182.
Talking-machine disks. Pathe Freres Phonograph Company. No. 131,817; May 25; v. 274; p. 833.
Talking-machine needles. W. H. Bagshaw Co. No. 138,533; Dec. 28; v. 281; p. 785.
Talking-machine needles. Blackman Talking Machine Co. No. 135,606; Oct. 19; v. 279; p. 526.
Talking-machine needles. Collings & Co. No. 136,380; Nov. 2; v. 280; p. 180.
Talking-machine needles. B. & H. Fibre Mfg. Co. No. 130,719; May 4; v. 274; p. 184.
Talking-machine needles. Morris & Yeomans. No. 131,890; May 25; v. 274; p. 835.
Talking-machine needles. Plaza Music Co. No. 135,043; Sept. 21; v. 278; p. 534.
Talking-machine records. Columbia Graphophone Manufacturing Company. No. 135,212; Sept. 28; v. 278; p. 701.
Talking-machine records. Q. R. S. Company. No. 132,784; June 29; v. 275; p. 1018.
Talking-machine records and music-roll ends. Arto Co., The. No. 131,702; May 25; v. 274; p. 829.
Talking-machines. Cheney Talking Machine Company. No. 129,646; Mar. 9; v. 272; p. 361.
Talking-machines. Columbia Mantel Company. No. 138,231; Dec. 21; v. 281; p. 563.
Talking-machines. R. B. Gatton. No. 136,005; Oct. 26; v. 279; p. 718.
Talking-machines. Modernola Co. No. 130,092; Apr. 6; v. 273; p. 181.
Talking-machines. Perfek'tone Corporation. No. 131,818; May 25; v. 274; p. 829.
Talking-machines. C. D. Swendson. No. 135,823; Oct. 19; v. 279; p. 532.
Talking-machines. Thomas Manufacturing Company. No. 129,900; Mar. 9; v. 272; p. 369.
Talking-machines. Vitanola Talking Machine Co. No. 134,117; Aug. 10; v. 277; p. 392.
Talking-machines. J. H. Weber. No. 134,121; Aug. 10; v. 277; p. 392.
Talking-machines and parts thereof. Supertone Talking Machine Co. No. 135,087; Sept. 21; v. 278; p. 535.
Talking-machines, Diaphragms for sound-boxes used on. F. V. V. De Myer. No. 132,845; June 29; v. 275; p. 1020.
Talking-machines, grafonolas, &c. Mandel Mfg. Company. No. 129,024; Jan. 20; v. 270; p. 474.
Talking-machines, phonographs, &c. Sonora Phonograph Corporation. No. 132,815; June 29; v. 275; p. 1019.
Talking-machines, phonographs, graphophones, &c. Sonora, Inc. Nos. 137,466–72; Nov. 23; v. 280; p. 800.
Talking-machines, violins, harps, &c. Gimbel Brothers, New York. No. 128,983; Jan. 20; v. 270; p. 473.
Tamales, Fresh. XL Tamale Cafe. No. 136,660; Nov. 2; v. 280; p. 188.
Tank-balls. Essex Rubber Company. No. 134,166; Aug. 17; v. 277; p. 581.
Tanks, Cement sewage-disposal. Cement Products Company. No. 137,573; Nov. 30; v. 280; p. 996.
Tanks. Riverside Boiler Works. Nos. 130,887–8; May 4; v. 274; pp. 189–90.
Tanks. Riverside Boiler Works. No. 133,798; Aug. 3; v. 277; p. 176.
Tanks, Oil-. Hammond Iron Works. No. 134,963; Sept. 21; v. 278; p. 532.
Tanks, Oil-. Hammond Iron Works. No. 135,454; Oct. 12; v. 279; p. 343.
Tanks, Septic. Sanitary Engineering Company. No. 131,605; May 18; v. 274; p. 608.
Tanks, tool-chests, and canteens for automobiles. S. C. Pandolfo. No. 134,759; Sept. 14; v. 278; p. 3.95
Tanks, Wooden. J. Armstrong. No. 133,569; Aug. 3; v. 277; p. 169.
Tanning and finishing leathers, Agents to be used in. Tanners Oil and Supply Company. No. 137,879; Dec. 7; v. 281; p. 109.
Tanning hides, Chemical for. Rohm & Haas Company. No. 131,599; May 18; v. 274; p. 607.
Tape, Bias seam-. The Omo Mfg. Co. Nos. 129,195–6; Jan. 27; v. 270; p. 615.
Tape for binding packages, Metal. Waldes & Co., Inc. No. 135,548; Oct. 12; v. 279; p. 346.
Tape-measures. C. W. Crogan. No. 138,180; Dec. 14; v. 281; p. 404.
Tapes, Gummed and ungummed paper sealing, veneer, and stay. Chicago Gum Tape Company. No. 137,151; Nov. 23; v. 280; p. 791.
Taps and valves of metal for general use with fluids. J. Jackson, Limited. No. 134,175; Aug. 17; v. 277; p. 581.
Tar for roofing composition. The Procter and Gamble Company. No. 131,216; May 4; v. 274; p. 199.
Targets. Black Products Company. No. 135,398; Oct. 12; v. 279; p. 341.
Tarpaulins, tents, and canvas covers. Couch Bros. Manufacturing Co. No. 137,975; Dec. 14; v. 281; p. 396.
Tax-registers. W. Silverberg. No. 137,064; Nov. 16; v. 280; p. 584.
Tea. Chase & Sanborn. No. 129,307; Feb. 10; v. 271; p. 356.
Tea. Chase & Sanborn. No. 134,226; Aug. 24; v. 277; p. 777.
Tea. Crescent Coffee Mills. No. 128,665; Jan. 13; v. 270; p. 337.
Tea. George C. Buell & Company. No. 128,319; Jan. 6; v. 270; p. 178.
Tea. W. R. Grace & Co. No. 134,958; Sept. 21; v. 278; p. 531.
Tea. Grand Union Tea Co. No. 130,736; May 4; v. 274; p. 185.

Digitized by Google

Tea. Great Atlantic & Pacific Tea Company. No. 132,896; June 22; v. 275; p. 818.
Tea. Hudson Coffee Mills. Nos. 136,041–2; Oct. 26; v. 279; p. 720.
Tea. H. A. Jones. No. 134,248; Aug. 24; v. 277; p. 778.
Tea. The Lemon Pekoe Tea Corporation. No. 137,304; Nov. 23; v. 280; p. 795.
Tea. A. O. Nuttall. No. 136,129; Oct. 26; v. 279; p. 722.
Tea. W. S. Quinby Company. No. 130,227; Apr. 13; v. 273; p. 403.
Tea. Saunders & Chase. No. 134,347; Aug. 31; v. 277; p. 971.
Tea and coffee. W. S. Quinby Company. No. 129,889; Mar. 9; v. 272; p. 367.
Tea and rice. William S. Scull Company. No. 132,802; June 29; v. 275; p. 1019.
Tea, coffee, chocolate, cocoa. Krenning-Schlapp Grocer Company. No. 130,335; Apr. 20; v. 273; p. 621.
Tea, coffee, rice, &c. Ellis Coffee Importing Company. No. 135,981; Oct. 26; v. 279; p. 718.
Tea, Herb. J. G. Sultanaki. No. 133,523; July 27; v. 276; p. 772.
Tea, Package-. Young Mahood Company. No. 129,410; Feb. 17; v. 271; p. 509.
Tea, spices, cocoa, mustard, &c. Stiles-Pellens Coffee Company. No. 131,244; May 4; v. 274; p. 200.
Tea syrup for making tea, Concentrated. I. C. T. Products Company. No. 132,176; June 15; v. 275; p. 618.
Teas. Carter, Macy & Co. No. 131,968; June 8; v. 275; p. 413.
Teas. Carter, Macy & Co. No. 137,966; Dec. 14; v. 281; p. 896.
Teas. Gertrude H. Ford Tea Company. No. 130,722; May 4; v. 274; p. 185.
Teas. B. B. de Montmorency. No. 133,908; Aug. 10; v. 277; p. 385.
Teas and coffees. F. C. Tripi & Co. No. 132,565; June 22; v. 275; p. 824.
Teeth, Antiseptic fluid for. L. Bahr. No. 128,614; Jan. 13; v. 270; p. 335.
Teeth, Artificial. The Columbus Dental Manufacturing Company. No. 130,679; May 4; v. 274; p. 183.
Teeth, Artificial. The Dentists' Supply Company. No. 135,649; Oct. 19; v. 279; p. 527.
Teeth, Artificial. G. Flint. No. 132,940; July 6; v. 276; p. 201.
Teeth, Artificial. I. Shikusawa. No. 137,450; Nov. 23; v. 280; p. 800.
Teeth, Compositions for fitting false. Anti-Pyorrhea Chemical Company. No. 130,620; May 4; v. 274; p. 181.
Telegraph and telephone apparatus, Wireless. De Forest Radio Telephone and Telegraph Company. Nos. 134,313–4; Aug. 24; v. 277; p. 781.
Telegraph apparatus, Detectors for. The Connecticut Telephone & Electric Company. No. 130,685; May 4; v. 274; p. 183.
Telegraph apparatus, Ships' electrical. Chadburn's (Ship) Telegraph Co. No. 136,365; Nov. 2; v. 280; p. 179.
Telegraph apparatus, Wireless-. A. H. Grebe & Co. No. 137,248; Nov. 23; v. 280; p. 794.
Telegraph-keys, Practice. D. G. White. No. 132,585; June 22; v. 275; p. 825.
Telegraphic sending-machines. The Vibroplex Company. No. 137,893; Dec. 7; v. 281; p. 199.
Telegraphic sending-machines. The Vibroplex Company. No. 138,363; Dec. 21; v. 281; p. 567.
Telephone-concealing device. H. W. Knight. No. 136,501; Nov. 2; v. 280; p. 183.
Telephone-index blank. J. F. Hutchinson. No. 134,975; Sept. 21; v. 278; p. 532.
Telephone-receiver supports. M. V. Reiner. No. 130,393; Apr. 20; v. 273; p. 623.
Telephone-receivers. The Magnavox Co. No. 137,324; Nov. 23; v. 280; p. 796.
Telephone sets, Devices for transmitting communication into transmitter of. M. Weil. No. 134,122; Aug. 10; v. 277; p. 392.
Telephone-transmitter mouthpiece attachment. Anti-Bacilli Company. No. 131,023; May 4; v. 274; p. 194.
Telephone-transmitter sanitary protectors. Sanitary Phone Corporation. No. 130,904; May 4; v. 274; p. 190.
Telephones and parts thereof. American Thermophone Company. No. 134,881; Sept. 21; v. 278; p. 529.
Telephones and parts thereof. The Magnavox Company. No. 138,059; Dec. 14; v. 281; p. 399.
Telephones, electrical apparatus and supplies. Kellogg Switchboard and Supply Company. No. 136,494; Nov. 2; v. 280; p. 183.
Telephones, Mouthpiece attachments for the transmitters. of. The Saniphone Company. No. 136,922; Nov. 9; v. 280; p. 382.
Telephones, Sound-intensifiers for. T. Sjoquist. No. 137,702; Nov. 30; v. 280; p. 1000.
Templets and try-gages. Chrobaltic Tool Company. No. 135,414; Oct. 12; v. 279; p. 342.
Tennis-rackets. F. L. Slazenger. No. 135,074; Sept. 21; v. 278; p. 535.
Tennis-rackets, golf clubs and balls, skates. Harry C. Lee & Company. No. 128,426; Jan. 6; v. 270; p. 181.
Tents. L. E. Trimm. No. 130,006; Mar. 16; v. 272; p. 540.
Tents. J. H. Wittmann. No. 134,464; Aug. 31; v. 277; p. 975.
Tents and canopies, awnings, &c. John Curtin Corporation. No. 130,169; Apr. 13; v. 273; p. 401.
Textile fabric in the piece. New Hampton Mills. No. 134,041; Aug. 10; v. 277; p. 389.
Textile fabrics. Lortex Company. No. 130,351; Apr. 20; v. 273; p. 622.
Textile fabrics. S. Minkenhof & Company. No. 136,107; Oct. 26; v. 279; p. 722.
Textile fabrics. Societe Rodier. No. 131,597; May 18; v. 274; p. 607.
Textile fabrics in the piece, Worsted and woolen. Holden-Leonard Company. Nos. 132,967–8; July 6; v. 276; p. 202.
Textile goods in the piece. James F. White & Co. No. 132,274; June 15; v. 275; p. 621.
Textiles. Derryvale Linen Company. Nos. 130,060–1; Apr. 6; v. 273; p. 180.
Textiles in the piece. C. A. Coleman Company. No. 133,388; July 27; v. 276; p. 768.
Theaters, Miniature. E. Moore. No. 113,165; July 13; v. 276; p. 403.
Therapeutic purposes, Apparatus for. McIntosh Battery and Optical Co. No. 134,726; Sept. 14; v. 274; p. 358.
Thermometers. C. J. Tagliabue Mfg. Co. Nos. 128,877–8; Jan. 13; v. 270; p. 344.
Thermometers. The Wilder-Pike Thermometer Company. No. 137,423; Nov. 23; v. 280; p. 799.
Thermometers, barometers, rain-gages. The Chaney Manufacturing Company. No. 128,956; Jan. 20; v. 270; p. 472.
Thermometers, sphygmomanometers, &c., Clinical. C. J. Tagliabue Mfg. Co. Nos. 133,054–5; July 6; v. 276; p. 204.
Thimbles, Sewing-. Ansonia Novelty Co. No. 135,592; Oct. 19; v. 279; p. 525.
Thistle-pulling machines. H. F. Hoehne. No. 130,516; Apr. 27; v. 273; p. 803.
Thread. The Royal Thread Co. No. 137,691; Nov. 30; v. 280; p. 1000.
Thread and yarn. H. E. Locke & Company. No. 129,177; Jan. 27; v. 270; p. 615.
Thread and yarn. H. E. Locke & Company. No. 130,088; Apr. 6; v. 273; p. 180.
Thread and yarn. H. E. Locke & Company. No. 130,204; Apr. 13; v. 273; p. 403.
Thread and yarn. H. E. Locke & Company. No. 130,206; Apr. 13; v. 273; p. 403.
Thread and yarn. H. E. Locke & Company. No. 132,991; July 6; v. 276; p. 202.
Thread and yarn. H. E. Locke & Company. No 134,716; Sept. 14; v. 278; p. 357.
Thread and yarn. H. E. Locke & Company. No. 135,371; Sept. 28; v. 278; p. 707.
Thread and yarn. H. E. Locke & Company. No. 136,077; Oct. 26; v. 279; p. 721.
Thread and yarn. Naamlooze Vennootschap; J. A. Carp's Garenfabrieken. No. 135,497; Oct. 12; v. 279; p. 344.
Thread and yarn, Cotton, worsted, mohair, and silk. The Salt's Textile Manufacturing Company. No. 137,435; Nov. 23; v. 280; p. 799.
Thread and yarn, Silk. A. H. Rice Company. Nos. 135,516–7; Oct. 12; v. 279; p. 345.
Thread, Bag-. H. E. Locke & Company. No. 138,054; Dec. 14; v .281; p. 399.
Thread, Linen. Barbour Brothers Co. No. 128,617; Jan. 13; v. 270; p. 336.
Thread or yarn, Mercerized cotton. Summit Thread Company. No. 133,052; July 6; v. 276; p. 204.
Thread, Shoe-. Commonwealth Thread Co. Nos. 132,913–4; v. 276; July 6; p. 200.
Thread, yarn, and crochet embroidery-cotton. Asmus Bradley Co. No. 135,595; Oct. 19; v. 279; p. 525.
Threads and yarns. American Trading Company. No. 130,148; Apr. 13; v. 273; p. 401.
Threads and yarns. Richardson Silk Co. No. 131,222; May 4; v. 274; p. 200.
Threads and yarns. West End Thread Company. No. 138,213; Dec. 14; v. 281; p. 407.
Threads and yarns, Natural and artificial silk. The H. K. H. Silk Co. of New York. No. 137,455; Nov. 23; v. 280; p. 800.
Threads and yarns, Wool. Dollfus-Meig & Cie. Societe Anonyme. No. 129,147; Jan. 27; v. 270; p. 614.
Threads for sewing, Cotton-. Seamans & Cobb Company. No. 138,111; Dec. 14; v. 281; p. 400.
Threads, yarns, Silk. Dollfus Mieg & Cie. Societe Anonyme. No. 129,279; Feb. 10; v. 271; p. 355.
Threshing-machines and grain-separators. Advance-Rumely Company. No. 128,276; Jan. 6; v. 270; p. 177.
Tickets, Receptacles for holding strip-. L. E. Brokman. No. 137,130; Nov. 23; v. 280; p. 790.
Ticking. American Importing Co. No. 135,382; Oct. 12; v. 279; p. 341.
Tire accessories, Automobile-. East End Tire Company. No. 137,779; Dec. 7; v. 281; p. 195.
Tile and brick, &c., Building. Milton Brick Company. No. 130,550; Apr. 27; v. 273; p. 804.
Tile, brick, and artificial stone. Formby Petrinite Corporation. No. 133,245; July 20; v. 276; p. 590.
Tile, brick, &c., Hardening and strengthening materials for. Formby Petrinite Corporation. No. 137,605; Nov. 30; v. 280; p. 997.

Digitized by Google

Alphabetical list of trade-marks—Continued.

Tin, galvanized and japanned ware. National Enameling & Stamping Co. No. 130,553; Apr. 27; v. 273; p. 804.
Tiles, &c., Composition floor-. International Cork Company. No. 132,178; June 15; v. 275; p. 618.
Timber and lumber. The Tropics Corporation. No. 132,840; June 29; v. 275; p. 1020.
Timepieces. F. W. Alter. No. 132,875; July 6; v. 276; p. 199.
Timepieces. F. W. Alter. No. 133,098; July 13; v. 276; p. 401.
Timepieces. F. W. Alter. No. 135,580; Oct. 19; v. 279; p. 525.
Timers, Ignition-. Blublaze Motor Specialties Corporation. No. 130,645; May 4; v. 274; p. 182.
Tin, Pig-. Richards and Co. No. 133,177; July 13; v. 276; p. 403.
Tire casing or shoe, Inner liner for a. National Sales Company. No. 138,400; Dec. 21; v. 281; p. 571.
Tire-casings and inner tubes. Zonta Tire & Rubber Co. No. 138,378; Dec. 21; v. 281; p 568.
Tire-casings and inner tubes, Rubber. Franklin Tire & Rubber Company. No. 138,542; Dec. 28; v. 281; p. 786.
Tire casings and tubes, Rubber-. Achilles Rubber and Tire Company. No. 135,881; Oct. 26; v. 279; p. 715.
Tire casings and tubes, Rubber vehicle-. The United Rubber Company. No. 137,734; Nov. 30; v. 280; p. 1001.
Tire casings, Blow-out patch for automobile-. C. L. Durham. No. 136,405; Nov. 2; v. 280; p. 180.
Tire-covers. The Bailey Company. No. 136,311; Nov. 2; v. 280; p. 178.
Tire filler, Pneumatic-. Shurefix Manufacturing Co. No. 131,837; May 25; v. 274; p. 833.
Tire-filling compound. Middletown Accessory-Laboratories Company. No. 132,203; June 15; v. 275; p. 619
Tire grip-chains. Liberty Chain Company. No. 130,345; Apr. 20; v. 273; p. 621.
Tire-patch. R. L. Bartholomew. No. 134,477; Sept. 7; v. 278; p. 159.
Tire-patches. The "Coraja" Manufacturing Co. No. 129,659; Mar. 9; v. 272; p. 361.
Tire-patches. Emco Manufacturing Company. No. 129,693; Mar. 9; v. 272; p. 362.
Tire-patches. P. E. Lown. No. 130,352; Apr. 20; v. 273; p. 622.
Tire patches and inner liners, Automobile-. E. M. Steell. No. 134,822; Sept. 14; v. 278; p. 361.
Tire, &c., patching material. Federal Rubber Company. No. 129,701; Mar. 9; v. 272; p. 363.
Tire-pumps. S. Blickman. No. 135,607; Oct. 19; v. 279; p. 526.
Tire-pumps. The W. H. Howell Company. No. 134,318; Aug. 24; v. 277; p. 781.
Tire pumps and grease-guns, Automobile-. Sidel-Rattner Manufacturing Company. No. 133,819; Aug. 3; v. 277; p. 177.
Tire pumps, Automobile-. Force Air Pump Company. No. 130,721; May 4; v. 274; p. 185.
Tire-pumps, Hand-operated. Mayo-Skinner Manufacturing Company. No. 133,281; July 20; v. 276; p. 591.
Tire-removing tools. Trexler Rim Compressor Co. No. 129,231; Jan. 27; v. 270; p. 616.
Tire-repair outfits. The Palmer Tire Company. No. 134,758; Sept. 14; v. 278; p. 358.
Tire tubes, Patches for wheel-. Hassebrock Brothers. No. 133,698; Aug. 3; v. 277; p. 173.
Tire valves, Dust-caps for pneumatic-. A. L. Just. No. 137,287; Nov. 23; v. 280; p. 795.
Tire valves, Dust-caps for pneumatic-. Newsom Valve Company. No. 137,662; Nov. 30; v. 280; p. 999.
Tire-ventilating valves. T. C. McEwen. No. 129,182; Jan. 27; v. 270; p. 615.
Tire-vulcanizing apparatus. A. E. Nolan. No. 136,560; Nov. 2; v. 280; p. 185.
Tires. The Dunlop Rubber Company. No. 137,023; Nov. 16; v. 280; p. 583.
Tires and inner tubes, Automobile. The Prudential Rubber Company. No. 137,682; Nov. 30; v. 280; p. 1000.
Tires and inner tubes of rubber, Automobile. C. O. Williams. No. 135,168; Sept. 21; v. 278; p. 538.
Tires and inner tubes, Outer casings for automobile-. Victor Rubber Company. No. 133,538; July 27; v. 276; p. 772.
Tires and inner tubes, Pneumatic rubber. The Ohio State Rubber Tire Co. No. 137,667; Nov. 30; v. 280; p. 999.
Tires and inner tubes, Rubber. J. H. Dwork. No. 137,587; Nov. 30; v. 280; p. 997.
Tires and supplies. The Miller Rubber Company. No. 135,871; Oct. 19; v. 279; p. 536.
Tires and tire-casings. A. Reinsberg. No. 136,008; Nov. 9; v. 280; p. 382.
Tires and treads therefor, Rubber and rubber and fabric vehicle-. The Goodyear Tire & Rubber Company. No. 135,370; Sept. 28; v. 278; p. 707.
Tires and tubes, Automobile. R. B. Piper. No. 135,042; Sept. 21; v. 278; p. 534.
Tires and tubes, Automobile and truck. Mason Tire & Rubber Co. No. 133,162; July 13; v. 276; p. 403.
Tires and tubes for vehicles. Racine Rubber Company. No. 136,594; Nov. 2; v. 280; p. 186.
Tires and tubes for vehicles, Rubber or rubber and fabric. McClaren Rubber Company. No. 134,724; Sept. 14; v. 278; p. 357.
Tires and tubes for vehicles, Rubber or rubber and fabric. McClaren Rubber Company. No. 135,006; Sept. 21; v. 278; p. 533.
Tires and tubes, Pneumatic. Acorn Tire and Rubber Company. No. 136,733; Nov. 9; v. 280; p. 377.
Tires and tubes, Rubber. Carlisle Tire & Rubber Company. No. 136,360; Nov. 2; v. 280; p. 179.
Tires and tubes, Rubber. C. Kenyon Company. No. 133,153; July 13; v. 276; p. 402.
Tires and tubes, Rubber. Mid-Continent Tire Manufacturing Company. No. 129,795; Mar. 9; v. 272; p. 365.
Tires and tubes, Rubber. National Tire & Rubber Company. No. 129,803; Mar. 9; v. 272; p. 366.
Tires and tubes, Rubber Company. McGraw Tire & Rubber Company. No. 129,493; Feb. 24; v. 271; p. 679.
Tires, Antiskidding rubber. P. Sangoff. No. 136,921; Nov. 9; v. 280; p. 382.
Tires, Automobile-. True-Matic Tire & Tube Company. No. 138,507; Dec. 28; v. 281; p. 784.
Tires, Bicycle-. Kaufmann Department Stores. No. 133,711; Aug. 3; v. 277; p. 174.
Tires, Bow-. A. Blattner. No. 137,124; Nov. 23; v. 280; p. 790.
Tires, casings, and inner tubes, Rubber vehicle-. United Motors Service Incorporated. No. 138,401; Dec. 21; v. 281; p. 571.
Tires, casings, and tubes, Rubber vehicle. Lincoln Tire & Rubber Co. No. 137,311; Nov. 23; v. 280; p. 795.
Tires, Cells for filling pneumatic. W. H. Richards. No. 136,910; Nov. 9; v. 280; p. 382.
Tires, Elastic vehicle-. The Norwalk Tire and Rubber Company. No. 133,769; Aug. 3; v. 277; p. 175.
Tires for automobiles and other vehicles, Rubber-. The Charles Williams Stores. No. 138,161; Dec. 14; v. 281; p. 402.
Tires for motor-cars and other vehicles, Rubber. E. B. Killen. No. 137,037; Nov. 16; v. 280; p. 583.
Tires, Inner tubes for pneumatic. Armorcord Rubber Company. No. 137,539; Nov. 30; v. 280; p. 995.
Tires, Inner tubes for pneumatic. Shaw Tire Co. No. 129,873; Mar. 9; v. 272; p. 368.
Tires, Inner tubes for pneumatic. Spencer Carroll Company. No. 134,542; Sept. 7; v. 278; p. 161.
Tires, Inner tubes for pneumatic. Racine Auto Tire Company. No. 135,512; Oct. 12; v. 279; p. 345.
Tires, Inner tubes for pneumatic. McRae Wholesale Hardware Company. No. 137,648; Nov. 30; v. 280; p. 999.
Tires, Inner tubes for pneumatic. Surety Tire & Rubber Co. No. 136,955; Nov. 9; v. 280; p. 384.
Tires, Inner tubes for vehicle-. Dural Rubber Corporation. No. 133,123; July 13; v. 276; p. 401.
Tires, inner tubes, Rubber. Automobile Owners Tire Corporation. No. 133,571; Aug. 3; v. 277; p. 169.
Tires, Inner tubes, tire-patches, &c. The American Rubber and Tire Co. No. 129,579; Mar. 9; v. 272; p. 359.
Tires, Outer casings and inner tubes for pneumatic automobile-. Victor Rubber Company. No. 132,075; June 8; v. 275; p. 417.
Tires, &c., Patches for inner tubes of automobile-. J. E. Sawyer. No. 134,535; Sept. 7; v. 278; p. 161.
Tires, Pneumatic. The Lion Supply Company. No. 136,075; Oct. 26; v. 279; p. 721.
Tires, Pneumatic. World Tire Corporation. No. 137,429; Nov. 23; v. 280; p. 799.
Tires, Rubber. The Combination Rubber Mfg. Co. No. 129,653; Mar. 9; v. 272; p. 361.
Tires, Rubber. Gates Rubber Company. No. 134,655; Sept. 14; v. 278; p. 355.
Tires, Rubber. I. V. Humphrey. No. 129,750; Mar. 9; v. 272; p. 364.
Tires, Rubber. Liberty Steel Products Company. No. 134,712; Sept. 14; v. 278; p. 357.
Tires, Rubber. Majestic Tire & Rubber Co. No. 132,451; June 22; v. 275; p. 820.
Tires, Rubber. Mead Cycle Company. No. 129,789; Mar. 9; v. 272; p. 365.
Tires, Rubber. M. A. Schwartz. No. 133,811; Aug. 3; v. 277; p. 177.
Tires, &c., Rubber. Societe Generale Des Etablissements Bergougnan. No. 129,969; Mar. 9; v. 272; p. 371.
Tires, Rubber, automobile-. H. McCreary. No. 136,007; Nov. 9; v. 280; p. 388.
Tires, Rubber automobile. Uzold Tire & Rim Co. No. 129,913; Mar. 9; v. 272; p. 369.
Tires, Rubber vehicle-. Dry Climate Tire Manufacturing Company. No. 129,681; Mar. 9; v. 272; p. 362.
Tires, Rubber vehicle-. Hood Tire Co. No. 134,384; Aug. 31; v. 277; p. 972.
Tires, Rubber vehicle. The Pan-American Rubber Co. No. 136,889; Nov. 9; v. 280; p. 381.
Tires, shoes, &c., Preparation for filling cavities and healing cuts in rubber. J. T. Flaherty. No. 135,996; Oct. 26; v. 279; p. 718.
Tires, tire-casings, and inner tubes, Rubber. Canton Blackstone Company. No. 133,224; July 20; v. 276; p. 589.
Tires, tubes, and casing-patch. W. L. Tedford. No. 134,827; Sept. 14. v. 278; p. 361.
Tires, tubes, and tire-repair patches or reinforcements. Hood Rubber Company. No. 134,383; Aug. 31; v. 277; p. 972.

Digitized by Google

Tires, tubes, boots, and tire-patches, Rubber and fabric vehicle-. Washington Tire & Rubber Company. Nos. 133,339–40; July 20; v. 276 p. 593.
Tires, tubes, patches, &c. Lee Tire & Rubber Company. No. 135,867; Oct. 19; v. 279; p. 535.
Tires. Universal Tire & Rubber Association. No. 133,335; July 20; v. 276; p. 593.
Tires, Varnish for rubber. Sterling Varnish Company. No. 129,087; Jan. 20; v. 270; p. 476.
Tires, Vehicle-. E. Miller. No. 133,750; Aug. 3; v. 277; p. 175.
Tires, Vehicle-. United States Tire Company. No 135,839; Oct. 19; v. 279; p. 533.
Tires, Vulcanizing outfits for rubber. The Williams Foundry & Machine Co. No. 136,989; Nov. 9; v. 280; p. 385.
Tobacco. American Tobacco Company. No. 130,030; Apr. 6; v. 273; p. 179.
Tobacco. American Tobacco Company. No. 130,034; Apr. 6; v. 273; p. 179.
Tobacco. The American Tobacco Company. Nos. 130,615–16; May 4; v. 274; p. 181.
Tobacco. The American Tobacco Company. No. 136,304; Nov. 2; v. 280; p. 177.
Tobacco. Larus & Brother Company. No. 128,424; Jan. 6; v. 270; p. 181.
Tobacco. R. J. Reynolds Tobacco Company. No. 130,879; May 4; v. 274; p. 189.
Tobacco. Roth Tobacco Company. No. 136,607; Nov. 2; v. 280; p. 187.
Tobacco. Standard Tobacco Company. No. 130,581; Apr. 27; v. 273; p. 805.
Tobacco and cigarettes. American Tobacco Co. Nos. 130,032–3; Apr. 6; v. 273; p. 179.
Tobacco and cigarettes. American Tobacco Company. No. 133,565; Aug. 3; v. 277; p. 169.
Tobacco and cigarettes. The American Tobacco Company. No. 130,617; May 4; v. 274; p. 181.
Tobacco and cigarettes. Liggett & Myers Tobacco Company. No. 130,087; Apr. 6; v. 273; p. 180.
Tobacco and cigarettes. Liggett & Myers Tobacco Company. No. 133,454; July 27; v. 276; p. 770.
Tobacco and cigarettes, Smoking. American Tobacco Company. No. 130,031; Apr. 6; v. 273; p. 179.
Tobacco and cigarettes, Smoking. The Barkmahn Company. No. 137,942; Dec. 14; v. 281; p. 395.
Tobacco and cigarettes, Smoking and chewing. American Tobacco Company. No. 133,349; July 27; v. 276; p. 767.
Tobacco and cigarettes, Smoking and chewing. Frishmuth Bro. & Company. No. 133,665; Aug. 3; v. 277; p. 172.
Tobacco, Baled. F. R. and R. M. Goodrich. No. 137,242; Nov. 23; v. 280; p. 793.
Tobacco, cigars, &c. Rockfall Cigar Company. No. 128,505; Jan. 6; v. 270; p. 184.
Tobacco, cigars, and cigarettes. Carreras Limited. No. 137,567; Nov. 30; v. 280; p. 996.
Tobacco, cigars, and cigarettes, Smoking and chewing. J. Christoforides. No. 134,613; Sept. 14; v. 278; p. 354.
Tobacco, cigars, and cigarettes, Smoking and chewing. J. Christoforides. No. 135,946; Oct. 26; v. 279; p. 717.
Tobacco, cigars, cigarettes, Smoking-. Alexander Boguslavsky, Limited. No. 136,331; Nov. 2; v. 280; p. 178.
Tobacco, Plug. Larus & Brother Company. No. 130,083; Apr. 6; v. 273; p. 180.
Tobacco, Smoking-. Larus & Brother Company. No. 136,064; Oct. 26; v. 279; p. 720.
Tobacco, Smoking. R. J. Lea, Limited. No. 135,728; Oct. 19; v. 279; p. 529.
Tobacco, Smoking-. Smith & Scott Tobacco Co. No. 137,461; Nov. 23; v. 280; p. 800.
Tobacco, Smoking-. United Drug Company. No. 134,834; Sept. 14; v. 278; p. 361.
Tobacco, Smoking-. Zorro Tobacco Co. No. 133,550; July 27; v. 276; p. 773.
Tobacco, Smoking and chewing. American Tobacco Company. No. 135,587; Oct. 19; v. 279; p. 525.
Tobacco, Smoking and chewing. Liggett & Myers Tobacco Company. No. 136,516; Nov. 2; v. 280; p. 184.
Toilet and antiseptic preparations. V. Vivaudou. No. 137,403; Nov. 23; v. 280; p. 798.
Toilet and manicure sets. Herculean Products Company. Nos. 133,141–2; July 13; v. 276; p. 402.
Toilet-article containers. M. J. Marymont. No. 128,450; Jan. 6; v. 270; p. 182.
Toilet extracts. E. Gal, Sociedad en Comandita. No. 132,077; June 15; v. 275; p. 615.
Toilet lotions. E. Gal, Sociedad en Comandita. No. 132,076; June 15; v. 275; p. 615.
Toilet partitions and drainage-fittings. Flat Metal Manufacturing Company. No. 129,154; Jan. 27; v. 270; p. 614.
Toilet powder. George Borgfeldt & Co. No. 131,417; May 18; v. 274; p. 601.
Toilet preparation. G. C. Bittner Co. No. 131,039; May 4; v. 274; p. 194.
Toilet preparation. E. D. Watkins. No. 135,101; Sept. 21; v. 278; p. 536.
Toilet preparations. H. L. Baker & Co. No. 131,706; May 25; v. 274; p. 829.
Toilet preparations. G. F. Batchelder. No. 135,598; Oct. 19; v. 279; p. 525.
Toilet preparations. G. H. Betts. No. 129,616; Mar. 9; v. 272; p. 360.
Toilet preparations. R. Bianchi. No. 129,828; Feb. 17; v. 271; p. 507.
Toilet preparations. Brown Chemical Co. No. 136,336; Nov. 2; v. 280; p. 178.
Toilet preparations. J. H. Calisher. No. 129,636; Mar. 9; v. 272; p. 361.
Toilet preparations. J. H. Calisher. No. 135,624; Oct. 19; v. 279; p. 526.
Toilet preparations. J. H. Calisher. No. 136,347; Nov. 2; v. 280; p. 179.
Toilet preparations. J. H. Calisher. No. 138,430; Dec. 28; v. 281; p. 781.
Toilet preparations. Chernoff Company. No. 136,369; Nov. 2; v. 280; p. 179.
Toilet preparations. Druggists Concentrates Co. No. 134,635; Sept. 14; v. 278; p. 355.
Toilet preparations. A. W. Earley. No. 129,687; Mar. 9; v. 272; p. 362.
Toilet preparations. S. Fukuhara. No. 131,467; May 18; v. 274; p. 603.
Toilet preparations. Hermo Co. No. 132,704; June 29; v. 275; p. 1016.
Toilet preparations. R. Hudnut. No. 135,705; Oct. 19; v. 279; p. 528.
Toilet preparations. A. Hudnut. No. 138,468; Dec. 28; v. 281; p. 782.
Toilet preparations. La Dora Toilet Preparations. No. 128,421; Jan. 6; v. 270; p. 181.
Toilet preparations. E. Lawrence & Co. No. 129,768; Mar. 9; v. 272; p. 365.
Toilet preparations. Lazell Perfumer. No. 134,711; Sept. 14; v. 278; p. 357.
Toilet preparations. Lazell Perfumer. No. 138,200; Dec. 14; v. 281; p. 406.
Toilet preparations. Leon Gawurin. Nos. 132,381–2; June 22; v. 275; p. 818.
Toilet preparations. The Lustr-ite Corporation. No. 134,722; Sept. 14; v. 278. p. 357.
Toilet preparations. Marshall Field & Company. No. 135,746; Oct. 19; v. 279; p. 530.
Toilet preparations. C. R. Meyer. No. 129,794; Mar. 9; v. 272; p. 365.
Toilet preparations. Meyer Brothers Drug Company. No. 134,743; Sept. 14; v. 278; p. 358.
Toilet preparations. Northam Warren Corporation. No. 134,458; Aug. 31; v. 277; p. 975.
Toilet preparations. Puritan Pharmaceutical Company. No. 129,836; Mar. 9; v. 272; p. 367.
Toilet preparations. Remiller Company. No. 131,588; May 18; v. 274; p. 607.
Toilet preparations. Seligman and Latz. No. 136,184; Oct. 26; v. 279; p. 724.
Toilet preparations. A. Simonson. No. 130,111; Apr. 6; v. 273; p. 181.
Toilet preparations. Talcum Puff Company. No. 132,559; June 22; v. 275; p. 824.
Toilet preparations. Talcum Puff Company. No. 133,524; July 27; v. 276; p. 772.
Toilet preparations. I. J. Tetlow. No. 133,526; July 27; v. 276; p. 772.
Toilet preparations. The United States Drug & Chemical Co. No. 134,549; Sept. 7; v. 278; p. 161.
Toilet preparations. V. Vivaudou. No. 131,384; May 11; v. 274; p. 402.
Toilet preparations. V. Vivaudou. No. 136,242; Oct. 26; v. 279; p. 726.
Toilet preparations. V. Vivaudou, Inc. No. 135,841; Oct. 19; v. 279; p. 533.
Toilet preparations. Vole College. No. 138,438; Dec. 28; v. 281; p. 782.
Toilet preparations. The Zelda Sales Company. No. 135,859; Oct. 19; v. 279; p. 533.
Toilet preparations. H. E. Zuts. No. 129,951; Mar. 9; v. 272; p. 370.
Toilet preparations for treating the skin. Geo. Zubrod & Co. No. 133,552; July 27; v. 276; p. 773.
Toilet preparations; soda- lump-starch. Grand Union Tea Co. No. 136,819; Nov. 9; v. 280; p. 379.
Toilet-seat covers, Flexible. Wagner Manufacturing Company. No. 137,894; Dec. 7; v. 281; p. 199.
Toilet seats, Sanitary cover. M. Fraser. No. 132,683; June 29; v. 275; p. 1015.
Toilet soaps, washing compound, &c. W. T. Rawleigh Company. No. 128,496; Jan. 6; v. 270; p. 183.
Toilet sets. United Drug Company. No. 134,112; Aug. 10; v. 277; p. 391.
Toilet water. The Atlanta Barbers' Supply Co. No. 138,419; Dec. 28; v. 281; p. 781.
Toilet water. Bonheur Co. No. 128,636; Jan. 13; v. 270; p. 336.
Toilet water. The Bonheur Co. No. 129,625; Mar. 9; v. 272 p. 360.
Toilet water. Wildroot Co. No. 132,866; June 29; v. 275; p. 1021.
Toilet water, shampoo preparation, &c. H. P. White. No. 129,928; Mar. 9; v. 272; p. 370.
Tomato paste. New Central Canning Co. No. 130,374; Apr. 20; v. 273; p. 622.
Tomato pulp. Salsina Canning & Packing Co. No. 129,862; Mar. 9; v. 272; p. 368.

Digitized by Google

Alphabetical list of trade-marks—Continued.

Tomato sauce, Bottled. J. Menefee. No. 135,749; Oct. 19; v. 279; p. 530.
Tonic and an antiseptic powder, Liquid. C. R. Spicer. No. 132,541; June 22; v. 275; p. 823.
Tonic and blood medicine. Parson Pharmacal Company. No. 132,480; June 22; v. 275; p. 821.
Tonic and blood-purifier, Stomach-. C. L. Haeussermann. No. 138,460; Dec. 28; v. 281; p. 782.
Tonic and conditioner for use for horses only. The Avalon Farms Company. No. 136,309; Nov. 2; v. 280; p. 178.
Tonic and tissue-builder. P. H. Todd & Son. No. 128,543; Jan. 6; v. 270; p. 185.
Tonic, appetizer, &c., Stomach and nerve. Laboratorio San Pietro. No. 138,191; Dec. 14; v. 281; p. 405.
Tonic, Bitter-wine. Scranton Distributing and Mfg. Co. No. 135,068; Sept. 21; v. 278; p. 535.
Tonic, Bone, teeth, blood and nerves. Steger & Co. No. 129,890; Mar. 9; v. 272; p. 368.
Tonic, Chicken-. B. B. Carswell. No. 129,269; Feb. 10; v. 271; p. 355.
Tonic, Chill and fever. C. V. Knight. No. 134,989; Sept. 21; v. 278; p. 532.
Tonic compound, Liquid heart-. William S. Merrell Company. No. 132,458; June 22; v. 275; p. 820.
Tonic for aiding the digestive organs and improving the appetite. W. J. Hurley. No. 134,688; Sept. 14; v. 278; p. 356.
Tonic for indigestion, dyspepsia, &c. W. A. Garren. No. 129,721; Mar. 9; v. 272; p. 363.
Tonic for nervousness, indigestion, and general debility. Meritone Medicine Co. No. 133,744; Aug. 3; v. 277; p. 175.
Tonic for poultry. A. W. Chappell. No. 134,903; Sept. 21; v. 278; p. 530.
Tonic for the bowel action and improving the digestion. W. J. Hurley. No. 134,687; Sept. 14; v. 278; p. 356.
Tonic for the treatment of general debility, &c. T. Geary. No. 131,468; May 18; v. 274; p. 603.
Tonic for treatment of la grippe, torpid liver, &c. A. D. Heinemann. No. 129,469; Feb. 24; v. 271; p. 679.
Tonic, General. The Cherry Pepsin Products Co. No. 137,497; Nov. 23; v. 280; p. 802.
Tonic, General. G. L. Lilly. No. 135,000; Sept. 21; v. 278; p. 533.
Tonic, General medicinal. B. Dowjat. No. 135,918; Oct. 26; v. 279; p. 716.
Tonic, General medicinal. E. M. Welch. No. 131,103; Sept. 21; v. 278; p. 536.
Tonic, Laxative. The Manhattan Medicine Co. No. 134,515; Sept. 7; v. 278; p. 160.
Tonic laxative for constipation, headache, &c. J. W. Duffee Mfg. Co. No. 132,360; June 22; v. 275; p. 817.
Tonic, Laxative stomachic. Joseph Triner Company. No. 129,904; Mar. 9; v. 272; p. 369.
Tonic, Liver-. D. L. Leyerle. No. 129,771; Mar. 9; v. 272; p. 365.
Tonic, Medicinal. M. Wais. No. 135,100; Sept. 21; v. 278; p. 536.
Tonic, Medicinal nerve-. Partola Distributing Company. No. 129,823; Mar. 9; v. 272; p. 366.
Tonic, Plant-. Nevada Chemical Company. No. 131,200; May 4; v. 274; p. 199.
Tonic, powders, ointment, and cream. Dickinson Drug Co. No. 128,675; Jan. 13; v. 270; p. 337.
Tonic preparation. L. A. Turin. No. 129,905; Mar. 9; v. 272; p. 369.
Tonic preparation used for chills and fever. W. E. Speight. No. 131,616; May 18; v. 274; p. 608.
Tonic, Reconstruction-. J. C. R. Charest. No. 134,902; Sept. 21; v. 278; p. 530.
Tonic, Reconstructive. Bosak Manufacturing Co. Nos. 132,303–5; June 22; v. 275; pp. 815–16.
Tonic, Stomach-. M. D. Rybowski. No. 132,795; June 29; v. 275; p. 1018.
Tonic, Strength-building. Proud-Leeper Mfg. Co. No. 129,835; Mar. 9; v. 272; p. 367.
Tonics. F. Ad. Richter & Co. No. 128,854; Jan. 13; v. 270; p. 342.
Tonics. Peninsular Chemical Company. No. 136,576; Nov. 2; v. 280; p. 186.
Tonics, Mucous. W. Hammond. No. 129,467; Feb. 24; v. 271; p. 678.
Tonics, Poultry-. Kinsella Company. No. 129,482; Feb. 24; v. 271; p. 679.
Tool-grinding machines. Luther Grinder Manufacturing Company. No. 135,251; Sept. 28; v. 278; p. 703.
Tool, shovel, and incline, Combination automobile-. Alsteel Manufacturing Co. No. 130,454; Apr. 27; v. 273; p. 801.
Tool-Steels. Wheelock, Lovejoy & Company. No. 137,420; Nov. 23; v. 280; p. 779.
Tools. The Detroit Reamer & Tool Co. No. 137,192; Nov. 23; v. 280; p. 792.
Tools. The Greb Company. No. 134,157; Aug. 17; v. 277; p. 581.
Tools. Harrold Tool & Forge Co. No. 131,133; May 4; v. 274; p. 197.
Tools. R. L. Johnson. No. 134,176; Aug. 17; v. 277; p. 581.
Tools. Pitard's, Inc. No. 131,213; May 4; v. 274; p. 199.
Tools. The Warren Tool and Forge Company. No. 134,201; Aug. 17; v. 277; p. 582.
Tools and machinery. The Vulcan Plow Co. No. 131,663; May 18; v. 274; p. 610.
Tools and machinery. The Vulcan Plow Co. No. 131,873; May 25; v. 274; p. 835.
Tools and parts thereof. The Billings & Spencer Company. No. 130,638; May 4; v. 274; p. 182.
Tools, apparatus and tools for metal-working. Maschinenfabrik Schweiter A.-G. No. 133,740; Aug. 3; v. 277; p. 175.
Tools comprising wrenches, hammers, and screwdrivers. Edelmann, E., & Company. No. 135,979; Oct. 26; v. 279; p. 718.
Tools, Mechanics' hand. Mayhew Steel Products. No. 130,828; May 4; v. 274; p. 188.
Tools, Metal-working. American Tap and Die Co. No. 136,301; Nov. 2; v. 280; p. 177.
Tools, Rotary. Edgar C. Guthard Co. No. 130,182; Apr. 13; v. 273; p. 402.
Tools, transmission-gears, and parts thereof, Machine. Aktiebolaget Gyro. No. 131,474; May 18; v. 274; p. 603.
Tooth-filling. W. G. Turner. No. 130,951; May 4; v. 274; p. 191.
Tooth-paste. A. Carreras. No. 131,424; May 18; v. 274; p. 602.
Tooth-paste. The Dentocide Chemical Co. No. 134,627; Sept. 14; v. 278; p. 355.
Tooth-paste. A. H. de Goenaga. No. 132,351; June 22; v. 275; p. 817.
Tooth-paste. J. J. Phillips. No. 132,780; June 29; v. 275; p. 1018.
Tooth-paste. M. Robins. No. 129,529; Feb. 24; v. 271; p. 680.
Tooth paste and powder. A. E. Peck Manufacturing Company. No. 135,038; Sept. 21; v. 278; p. 534.
Tooth paste and powder, dentifrice, &c. F. M. Keeler Co. No. 129,365; Feb. 17; v. 271; p. 508.
Tooth-paste or dentifrice. M. Stevens. No. 138,204; Dec. 14; v. 281; p. 407.
Tooth-powders, pastes, and mouth-washes. J. N. Thibodeaux. No. 132,562; June 22; v. 275; p. 824.
Tooth-wash. B. Altman & Co. No. 138,415; Dec. 28; v. 281; p. 781.
Toothbrushes. Andersen, Meyer & Co. No. 135,191; Sept. 28; v. 278; p. 701.
Toothbrushes. C. L. Card. No. 136,357; Nov. 2; v. 280; p. 179.
Toothbrushes. C. Dierke. No. 134,493; Sept. 7; v. 278; p. 159.
Toothbrushes. Geo. R. Gibson Co. No. 135,448; Oct. 12; v. 279; p. 343.
Toothbrushes. M. Levy. No. 133,990; July 6; v. 276; p. 202.
Toothbrushes. Williams, Davis, Brooks & Hinchman Sons. No. 133,547; July 27; v. 276; p. 773.
Toothpicks. Cutter Tower Company. No. 135,965; Oct. 26; v. 279; p. 717.
Topping for ice-cream sundaes and hot chocolate. Nebraska Fountain & Supply Co. No. 130,845; May 4; v. 274; p. 188.
Torches and fire-pots, Gasolene, kerosene, and alcohol. Ashton Manufacturing Co. No. 137,908; Dec. 7; v. 281; p. 200.
Torches and parts thereof, Cutting and welding. Bastian-Blessing Company. No. 130,151; Apr. 13; v. 273; p. 401.
Toweling. J. F. White & Co. No. 133,542; July 27; v. 276; p. 772.
Toweling, Crash. James F. White & Co. No. 129,929; Mar. 9; v. 272; p. 370.
Towels. H. W. Baker Linen Co. No. 129,325; Feb. 17; v. 271; p. 507.
Towels and toweling. Converse & Company. No. 131,727; May 25; v. 274; p. 830.
Towers for general use, concrete forms, and form-clamps, Steel. Allied Machinery Company of America. No. 135,379; Oct. 12; v. 279; p. 341.
Toy aeroplanes. J. O. Howard. No. 130,522; Apr. 27; v. 273; p. 803.
Toy airplanes. Lawrence Airplane Model and Supply Company. No. 134,709; Sept. 14; v. 278; p. 357.
Toy airplanes. Lawrence Airplane Model and Supply Company. No. 135,478; Oct. 12; v. 279; p. 344.
Toy aeroplanes. P. Pierce. No. 133,019; July 6; v. 276; p. 203.
Toy airplanes. The Ritchie-Werts Manufacturing Company. No. 135,057; Sept. 21; v. 278; p. 534.
Toy animals. M. Waterman. No. 135,161; Sept. 21; v. 278; p. 536.
Toy bowling-game apparatus. R. L. Lloyd. No. 137,312; Nov. 23; v. 280; p. 795.
Toy building-blocks. George Borgfeldt & Co. No. 134,589; Sept. 14; v. 278; p. 354.
Toy furniture. R. W. Porter. No. 133,020; July 6; v. 276; p. 203.
Toy guns. G. Tushak. No. 128,549; Jan. 6; v. 270; p. 185.
Toy horse. J. Scanlon. No. 134,536; Sept. 7; v. 278; p. 161.

Digitized by Google

Toy hydro- and aero-planes. Great Northern Toy Co. No. 134,960; Sept. 21; v. 278; p. 531.
Toy molds. H. B. Minnick. No. 130,551; Apr. 27; v. 273; p. 804.
Toy molds and molding-wax for same. L. E. Butler. No. 133,367; July 27; v. 276; p. 767.
Toy, Rolling. C. Schindler. No. 136,615; Nov. 2; v. 280; p. 187.
Toy savings-banks. M. Stoltz. No. 133,049; July 6; v. 276; p. 204.
Toy soldiers, dishes, and furniture. Ferdinand Gutmann & Co. No. 132,954; July 6; v. 276; p. 201.
Toy vehicle. H. G. Bishop. No. 137,556; Nov. 30; v. 280; p. 996.
Toy vehicle. E. G. Kirtz. No. 132,981; July 6; v. 276; p. 202.
Toy vehicle—viz., coaster. R. H. Blackburn. No. 132,898; July 6; v. 276; p. 199.
Toy vehicles. C. C. Church. No. 134,908; Sept. 21; v. 278; p. 530.
Toy vehicles. H. D. Lafferty. No. 131,009; May 4; v. 274; p. 193.
Toy vehicles. U and I Toy Company. No. 135,350; Sept. 28; v. 278; p. 706.
Toy velocipedes. R. E. Booth. No. 137,953; Dec. 14; v. 281; p. 396.
Toy velocipedes. Buster Manufacturing Company. No. 132,633; June 29; v. 275; p. 1014.
Toy-watch dials and cases. A Baron. No. 128,301; Jan. 6; v. 270; p. 177.
Toys, O. M. Burton. No. 133,105; July 13; v. 276; p. 401.
Toys and toy dishes, Mechanical. Wolverine Supply & Mfg. Co. No. 135,363; Sept. 28; v. 278; p. 706.
Toys, Mechanical. Samuel Orkin Company. No. 130,099; Apr. 6; v. 273; p. 181.
Toys of paper or pasteboard. Oxford-Print. No. 136,141; Oct. 26; v. 279; p. 723.
Toys, Wooden. G. Sato. No. 130,905; May 4; v. 274; p. 190.
Tractor accessories. Hughes & Curren Co. No. 134,173; Aug. 17; v. 277; p. 581.
Tractor-cabs. H. V. Browne. No. 129,128; Jan. 27; v. 270; p. 613.
Tractors. Albaugh-Dover Co. No. 128,279; Jan. 6; v. 270; p. 177.
Tractors. American Tractor Corporation. No. 133,566; Aug. 3; v. 277; p. 169.
Tractors. Fageol Motors Company. No. 135,669; Oct. 19; v. 279; p. 527.
Tractors. Hebb Motors Company. No. 131,487; May 18; v. 274; p. 604.
Tractors. Kardell Tractor and Truck Company. No. 137,289; Nov. 23; v. 280; p. 795.
Tractors. The Line Drive Tractor Inc. No. 135,481; Oct. 12; v. 279; p. 344.
Tractors. Midwest Engine Company. No. 129,185; Jan. 27; v. 270; p. 615.
Tractors. Midwest Engine Company. No. 129,501; Feb. 24; v. 271; p. 680.
Tractors. Midwest Engine Co. No. 130,212; Apr. 13; v. 273; p. 403.
Tractors. Midwest Engine Company. No. 136,868; Nov. 9; v. 280; p. 381.
Tractors. National Tractor Company. No. 138,075; Dec. 14; v. 281; p. 399.
Tractors. The New Britain Machine Co. No. 137,346; Nov. 23; v. 280; p. 796.
Tractors. Rein Drive Tractors, Limited. No. 135,053; Sept. 21; v. 278; p. 534.
Tractors. Southern Motor Manufacturing Association. No. 130,115; Apr. 6; v. 273; p. 181.
Tractors. Turner Manufacturing Company. No. 131,643; May 18; v. 274; p. 609.
Tractors. Wallis Tractor Company. No. 130,982; May 4; v. 274; p. 192.
Tractors. Wellman-Seaver-Morgan Company. No. 129,245; Jan. 27; v. 270; p. 617.
Tractors. Wichita Motors Company. No. 135,376; Sept. 28; v. 278; p. 708.
Tractors and parts. General Ordnance Company. No. 128,387; Jan. 6; v. 270; p. 180.
Tractors and parts thereof. Cleveland Tractor Company. No. 135,175; Sept. 21; v. 278; p. 539.
Tractors and parts thereof. The J. T. Tractor Company. No. 137,397; Nov. 23; v. 280; p. 798.
Tractors and tractor parts. J. D. Park. No. 130,884; Apr. 20; v. 273; p. 623.
Tractors designed for use in hauling agricultural implements, &c. Samson Tractor Company. No. 132,508; June 22; v. 275; p. 822.
Tractors, Farm-. Martin Scott Engineering Co. No. 132,456; June 22; v. 275; p. 820.
Tractors, Farm-. Tioga Manufacturing Company. No. 136,666; Nov. 2; v. 280; p. 189.
Tractors, gas and kerosene internal-combustion engines. American Tractor & Foundry Company. No. 137,014; Nov. 16; v. 280; p. 583.
Tractors, Internal-combustion engines, &c. The Holt Manufacturing Company. No. 137,266; Nov. 23; v. 280; p. 794.
Tractors, Internal-combustion motor-. Velie Motors Corporation. No 130,589; Apr. 27; v. 273; p. 805.
Tractors, plows, drills, &c. Hart-Parr Company. No. 136,720; Nov. 2; v. 280; p. 191.
Tractors, steam and gas engines. Union Tool Company. No. 128,553; Jan. 6; v. 270; p. 185.
Trailers. Highway Trailer Company. No. 135,262; Sept. 28; v. 278; p. 703.
Trailers, Camping-. S. S. Marx. No. 137,698; Nov. 30; v. 280; p. 1000.
Trailers, motor and hand trucks, and dumping-bodies. Lee Loader & Body Company. No. 137,314; Nov. 23; v. 280; p. 795.
Trailers, semitrailers, and automotive vehicles. Day-Elder Motors Corporation. Nos. 132,662–3; June 29; v. 275; p. 1015.
Transformers. Dongan Electric Manufacturing Co. No 137,201; Nov. 23; v. 280; p. 792.
Transmission-linings. The Powers Manufacturing Company. No. 138,330; Dec. 21; v. 281; p. 566.
Treating gall-stones and catarrh of the stomach and bowels, Compound for. D. H. Miller. No. 129,503; Feb. 24; v. 271; p. 680.
Treatment for sore soft bleeding gums, loose teeth, &c., Astringent. E. Cureton. No. 137,177; Nov. 23; v. 280; p. 791.
Treatment of blood, Medicine used in the. W. Peterson. No. 138,327; Dec. 21; v. 281; p. 566.
Treatment of eye trouble, Liquid for. D. D. D. Company. No. 134,926; Sept. 21; v. 278; p. 530.
Treatment of gonorrhea, Liquid for the. L. T. Price. No. 128,824; Jan. 13; v. 270; p. 342.
Treatment of influenza, Dry composition for the. J. R. Smith. No. 132,811; June 29; v. 275; p. 1019.
Trestles. The Safety Equipment Company. No. 134,788; Sept. 14; v. 278; p. 359.
Trolleys, cranes, and tongs, for hoisting, &c., and portable elevators. New Jersey Foundry & Mach. Co. No. 130,848; May 4; v. 274; p. 188.
Trouserings and piece goods, Wool. Stewart Bros. & Company. No. 128,533; Jan. 6; v. 270; p. 184.
Trousers. H. Koffler. No. 138,473; Dec. 28; v. 281; p. 783.
Trousers. Pyramid Pants Company. No. 138,332; Dec. 21; v. 281; p. 566.
Trousers. Robert Lawson & Sons. No. 130,791; May 4; v. 274; p. 187.
Trousers. Samuel Rosenbaum & Sons Company. No. 130,565; Apr. 27; v. 273; p. 804.
Trousers. Standard Manufacturing Company. No. 132,542; June 22; v. 275; p. 823.
Trousers. Wine Brothers and Company. No. 137,426; Nov. 23; v. 280; p. 799.
Trousers, coats, &c. Adelberg-Feder Stores. No. 129,570; Mar. 9; v. 272; p. 359.
Trousers, coats, vests, overcoats, and suits, Men's. Frankel Brothers. No. 137,228; Nov. 23; v. 280; p. 793.
Trousers-supporters. L. Woods. No. 131,273; May 4; v. 274; p. 201.
Trowels, Weeding-. W. I. Hare. No. 128,720; Jan. 13; v. 270; p. 339.
Trucks and accessories, Electric. W. C. Brinton. No. 131,964; June 8; v. 275; p. 413.
Trucks and automobiles, Motor-. Fageol Motors Company. No. 135,668; Oct. 19; v. 279; p. 527.
Trucks and automobiles, Motor-. Hamilton Motors Company. No. 135,253; Sept. 28; v. 278; p. 703.
Trucks and automobiles, Motor-. Overseas Products Corporation. No. 137,670; Nov. 30; v. 280; p. 999.
Trucks and automobiles, Motor-. The Stewart Motor Corporation. No. 129,313; Feb. 10; v. 271; p. 356.
Trucks and parts thereof, Motor-. Atterbury Motor Car Company. No. 128,925; Jan. 20; v. 270; p. 471.
Trucks and passenger-automobiles, Motor-. Stewart Motor Corporation. No. 130,932; May 4; v. 274; p. 191.
Trucks and trailers, Motor-. Illinois Auto Truck Co. No. 138,028; Dec. 14; v. 281; p. 398.
Trucks, Automobile-. American Commercial Car Co. No. 131,016; May 4; v. 274; p. 193.
Trucks, Automobile-. The Kelly-Springfield Motor Truck Company. Nos. 131,151–2; May 4; v. 274; p. 197.
Trucks, chassis, and bodies, Automobile-. J. C. Wilson Company. No. 138,408; Dec. 21; v. 281; p. 572.
Trucks, Light motor-. Reo Motor Car Company. No. 134,322; Aug. 24; v. 277; p. 781.
Trucks, Motor-. All-American Truck Company. No. 134,564; Sept. 14; v. 278; p. 353.
Trucks, Motor-. J. W. Allan. No. 128,281; Jan. 6; v. 270; p. 177.
Trucks, Motor-. J. W. Allan. No. 129,414; Feb. 24; v. 271; p. 677.
Trucks, Motor-. The Commerce Motor Car Company. No. 130,477; Apr. 27; v. 273; p. 801.
Trucks, Motor-. Hudford Company of Chicago. No. 135,464; Oct. 12; v. 279; p. 343.
Trucks, Motor-. Indiana Truck Corporation. No. 134,691; Sept. 14; v. 278; p. 356.
Trucks, Motor-. H. S. Jarvis. No. 132,002; June 8; v. 275; p. 414.
Trucks, Motor-. Larrabee-Devo Motor Truck Company. No. 129,991; Mar. 16; v. 272; p. 539.
Trucks, Motor. Parker Motor Truck Company. No. 136,144; Oct. 26; v. 279; p. 723.

Digitized by Google

Trucks, Motor-. Reliance Motor Truck Company. No. 135,515; Oct. 12; v. 279; p. 345.
Trucks, Motor-. F. W. Ruggles. No. 131,229; May 4; v. 274; p. 200.
Trucks, Motor-. Ward La France Truck Co. No. 133,086; July 8; v. 276; p. 205.
Trucks, Motor. Winther Motor Truck Company. No. 130,448; Apr. 20; v. 273; p. 624.
Trucks, wagons, carts, drays, and vehicles, Automobile-. The O. Armleder Co. No. 134,574; Sept. 14; v. 278; p. 353.
Trunks. J. Biel. No. 137,562; Nov. 30; v. 280; p. 996.
Trunks. Hartmann Trunk Co. No. 130,068; Apr. 6; v. 273; p. 180.
Trunks. D. E. Rose Trunk Company. No. 129,063; Jan. 20; v. 270; p. 475.
Trunks, suitcases, &c. Laks & Zucker. No. 137,506; Nov. 23; v. 280; p. 803.
Trunks, suitcases, and traveling-bags. Ely & Walker Dry Goods Company. No. 136,796; Nov. 9; v. 280; p. 379.
Trunks, suitcases, handbags, &c. The Belber Trunk & Bag Company. No. 129,977; Mar. 16; v. 272; p. 539.
Trunks, suitcases, traveling-bags, and handbags. Rogers & Madison Trunk Corporation. No. 134,784; Sept. 14; v. 278; p. 359.
Trunks, traveling-bags, and suitcases. C. Heinlein, Sr. No. 137,260; Nov. 23; v. 280; p. 794.
Trunks, traveling-bags, suitcases, and brief-cases. Rice-Stix Goods Company. No. 134,780; Sept. 14; v. 278; p. 359.
Trusses. L. A. Smith. No. 135,813; Oct. 19; v. 279; p. 532.
Tubes and pipes. Supplee-Biddle Hardware Company. Nos. 137,867-72; Dec. 7; v. 281; p. 198.
Tubes for pyrometers, Protecting-. The Brown Instrument Company. No. 129,129; Jan. 27; v. 270; p. 613.
Tubes, Inner. The Ohio Rubber Co. No. 137,048; Nov. 16; v. 280; p. 584.
Tubes, Iron and steel. Spang, Chalfant & Co. No. 129,223; Jan. 27; v. 270; p. 616.
Tubes, Pneumatic inner. U. S. Compression Inner Tube Co. No. 135,877; Oct. 19; v. 279; p. 536.
Tubing, Base-metal. Summerill Tubing Company. No. 136,655; Nov. 2; v. 280; p. 188.
Tubing. Pressed Metal Radiator Company. No. 129,052; Jan. 20; v. 270; p. 475.
Tungsten. Metal & Thermit Corporation. No. 133,163; July 13; v. 276; p. 403.
Tuning-pins. American Musical Supply Co. No. 132,606; June 29; v. 275; p. 1013.
Turbines and tractors. Midwest Engine Company. No. 128,460; Jan. 6; v. 270; p. 182.
Turnbuckles, &c. A. V. Roe & Co. Nos. 129,209-10; Jan. 27; v. 270; p. 616.
Turpentine. A/S Det Almindelige Handelskompagni. No. 132,403; June 22; v. 275; p. 819.
Turpentine. Bogalusa Turpentine Company. No. 129,332; Feb. 17; v. 271; p. 507.
Turpentine. Gaston, Williams & Wigmore. No. 132,247; Sept. 28; v. 278; p. 702.
Turpentine and turpentine substitute. Kon. Ned. Maatschappij tot Exploitatie van Petroleum bronnen in Ned. Indië. No. 137,637; Nov. 30; v. 280; p. 998.
Turpentine substitute, Synthetic. Pennsylvania Linseed Products Company. No. 129,383; Feb. 17; v. 271; p. 509.
Turpentine, Synthetic Venice. J. L. Hopkins & Co. No. 137,036; Nov. 16; v. 280; p. 583.
Tweeds. L. G. Maxwell. No. 129,788; Mar. 9; v. 272; p. 365.
Twine. American Twine Co. No. 130,618; May 4; v. 274; p. 187.
Twine. Columbian Rope Company. No. 128,335; Jan. 6; v. 270; p. 178.
Twine. Zellerbach Paper Company. No. 133,884; Aug. 3; v. 277; p. 179.
Twine and tufts used in tying bed-mattresses, &c. Rockford Manufacturing Company. No. 136,604; Nov. 2; v. 280; p. 187.
Twine, Cotton. Mount Vernon-Woodberry Mills. No. 129,995; Mar. 16; v. 272; p. 539.
Twines, ropes, strings, &c. C. C. Davis. No. 129,980; Mar. 16; v. 272; p. 539.
Twines, string, and cordage. C. C. Davis. No. 133,113; July 13; v. 276; p. 401.
Typewriter-ribbons and carbon-paper. Galveston Typewriter Exchange. No. 133,969; Aug. 10; v. 277; p. 387.
Typewriter-ribbons and carbon-papers. S. W. Fry. No. 136,428; Nov. 2; v. 280; p. 181.
Typewriter-ribbons, carbon-paper, and stencil-ink. C. E. Archbald. No. 132,614; June 29; v. 275; p. 1013.
Typewriters. Blickensderfer Manufacturing Company. No. 133,101; July 13; v. 276; p. 401.
Typewriters. P. M. Hooven. No. 136,040; Oct. 26; v. 279; p. 720.
Typewriters. Lincoln Typewriter Co. No. 137,642; Nov. 30; v. 280; p. 998.
Typewriting and printing, Non-carbonized paper. Powers Paper Company. No. 134,527; Sept. 7; v. 278; p. 160.
Typewriting-machine. Underwood Typewriter Company. No. 131,645; May 18; v. 274; p. 609.
Typewriting machine and parts. Underwood Typewriter Company. No. 134,865; Sept. 14; v. 278; p. 363.
Typewriting-machines. Gourland Typewriter Corporation. No. 136,014; Oct. 26; v. 279; p. 719.
Typewriting-machines. F. Bertarelli. No. 136,807; Nov. 9; v. 280; p. 379.
Typewriting-machines, Device for feeding envelops to. The American Speed-O-Feeder Company. No. 136,741; Nov. 9; v. 280; p. 377.
Umbrellas. John U. Burt Inc. No. 135,206; Sept. 28; v. 278; p. 701.
Umbrellas. Weinberg & Bisbing. No. 132,271; June 15; v. 275; p. 621.
Undergarments, Children's and misses'. Fair Maid Undergarment Co., The. No. 134,641; Sept. 14; v. 278; p. 355.
Undervests, storm-vests, padded and quilted vests and jackets. J. A. Rainford. No. 135,049; Sept. 21; v. 278; p. 534.
Underwear. The B. V. D. Company. No. 130,663; May 4; v. 274; p. 183.
Underwear. Cooper Underwear Company. No. 131,070; May 4; v. 274; p. 195.
Underwear. J. A. Firsching. No. 137,783; Dec. 7; v. 281; p. 195.
Underwear. High Rock Knitting Company. No. 128,729; Jan. 13; v. 270; p. 339.
Underwear. Luxite Silk Products Co. No. 133,729; Aug. 3; v. 277; p. 174.
Underwear. Robert C. King & Co. No. 130,327; Apr. 20; v. 273; p. 621.
Underwear. J. C. Roulette and Sons. No. 128,506; Jan. 6; v. 270; p. 184.
Underwear. J. C. Roulette and Sons. No. 129,214; Jan. 27; v. 270; p. 616.
Underwear. Sherman Brothers Company. No. 129,536; Feb. 24; v. 271; p. 681.
Underwear. Stephenson Underwear Mills. No. 137,481; Nov. 23; v. 280; p. 801.
Underwear. Universal Merchandise Company. No. 130,961; May 4; v. 274; p. 192.
Underwear and hosiery. Robert C. King & Co. No. 130,326; Apr. 20; v. 273; p. 621.
Underwear and men's, ladies', and children's hosiery, Ladies' and children's. Vogue Knitting Co. No. 138,212; Dec. 14; v. 281; p. 407.
Underwear, Athletic. Excelsior Underwear Co. No. 137,588; Nov. 30; v. 280; p. 997.
Underwear, bloomers, pajamas, and nightgowns, Women's. R. B. Swift. No. 129,402; Feb. 17; v. 271; p. 509.
Underwear for men. H. B. Ferguson. No. 132,370; June 22; v. 275; p. 818.
Underwear for men. Samuel W. Peck & Co. No. 128,816; Jan. 13; v. 270; p. 342.
Underwear for men and women. Hope Knitting Company. No. 134,683; Sept. 14; v. 278; p. 356.
Underwear for men and women. Watts, Ritter & Company. No. 134,846; Sept. 14; v. 278; p. 361.
Underwear, Knitted. De Milo Distributing Co. No. 133,234; July 20; v. 276; p. 590.
Underwear, Ladies' flat. F. Newmark. No. 132,216; June 15; v. 275; p. 619.
Underwear, Ladies' flat. F. Newmark. No. 132,465. June 22; v. 275; p. 821.
Underwear, Ladies' muslin and silk. C. A. Kupferman Co. No. 131,793; May 25; v. 274; p. 882.
Underwear, Ladies' silk. Graceline Manufacturing Company. No. 130,735; May 4; v. 274; p. 185.
Underwear. Ladies' silk and cotton woven. Lehman Brothers. No. 131,164; May 4; v. 274; p. 198.
Underwear, Men's and boys'. W. D. Porter. No. 133,302; July 20; v. 276; p. 592.
Underwear, Men's and boy's athletic. Cohn, Goldwater Company. No. 134,617; Sept. 14; v. 278; p. 354.
Underwear, Men's knitted and woven. Roxford Knitting Company. No. 137,389; Nov. 23; v. 280; p. 798.
Underwear, Mesh or netted. E. A. Sanders. No. 137,921; Dec. 7; v. 281; p. 202.
Underwear, Men's, women's, and children's. Francis T. Simmons Co. No. 129,399; Feb. 17; v. 271; p. 509.
Underwear, Muslin. Sears, Roebuck and Company. No. 138,342; Dec. 21; v. 281; p. 567.
Underwear, night-robes, dresses, and blouses, Women's and children's. M. E. Smith & Co. No. 133,322; July 20; v. 276; p. 592.
Underwear, petticoats, and waists. Carteret Silk Company. No. 130,667; May 4; v. 274; p. 183.
Underwear, shirts, blouses, &c. H. Ostrowsky Co. No. 135,764; Oct. 19; v. 279; p. 530.
Underwear, Textile. Israel Underwear Co. No. 128,409; Jan. 6; v. 270; p. 181.
Underwear, Woven. American Wholesale Corporation (Baltimore Bargain House). No. 138,416; Dec. 28; v. 281; p. 781.
Underwear, Women's muslin and silk. Aaron Newmark, Inc. No. 137,840; Dec. 7; v. 281; p. 197.
Underwear, Women's silk. Windsor Undersilks, Inc. No. 131,885; May 25; v. 274; p. 835.
Uniforms and elements thereof, Nurses'. H. A. Loeb. No. 129,178; Jan. 27; v. 270; p. 615.
Uniforms, Naval. S. Zagoren. No. 130,450; Apr. 20; v. 273; p. 624.

Digitized by Google

Alphabetical list of trade-marks—Continued.

Union-suits and two-piece underwear. Taunton Knitting Company. No. 137,514; Nov. 23; v. 280; p. 804.
Union-suits, Athletic. Premier Manufacturing Co. No. 135,046; Sept. 21; v. 278; p. 534.
Union-suits, Men's knitted. Cooper, Coate & Casey Dry Goods Co. No. 133,621; Aug. 3; v. 277; p. 171.
Union-suits, Woven and knitted. Neustadter Brothers. No. 133,008; July 6; v. 276; p. 203.
Upholstery and cabinet hardware. Berbecker & Rowland Manufacturing Company. No. 131,035; May 4; v. 274; p. 194.
Vacuum tube devices, parts and accessories therefor. Wireless Specialty Apparatus Company. No. 133,095; July 6; v. 276; p. 205.
Valve grinders and refacing tools, &c. Albertson & Company. No. 130,599; May 4; v. 274; p. 181.
Valve-grinding compounds. S. & P. Manufacturing Co. No. 131,231; May 4; v. 274; p. 200.
Valve-lifting tools for internal-combustion engines. A. C. Rosenbrook. No. 130,397; Apr. 20; v. 273; p. 623.
Valve-spring lifters. K-D Manufacturing Co. No. 137,808; Dec. 7; v. 281; p. 196.
Valves and parts thereof. O'Malley-Beare Valve Co. No. 130,381; Apr. 20; v. 273; p. 623.
Valves, Automatic relief-. Dew Valve Co. No. 132,927; July 6; v. 276; p. 200.
Valves, Beverage-dispensing. C. M. Earl. No. 132,363; June 22; v. 275; p. 817.
Varnish composition. Minwax Company. No. 132,207; June 15; v. 275; p. 619.
Valves, Compressor-. Bury Compressor Company. No. 133,106; July 13; v. 276; p. 401.
Valves, Flush-tank outlet-. The Korket Company. No. 133,714; Aug. 3; v. 277; p. 174.
Valves, Flushing-tank ball-. M. Glauber & Company. No. 137,238; Nov. 23; v. 280; p. 793.
Valves for automobile fuel-tanks. Locktite Patch Company. No. 136,078; Oct. 26; v. 279; p. 721.
Valves for carbid-lamps. Justrite Mfg. Co. No. 129,173; Jan. 27; v. 270; p. 615.
Valves for general use, pump-governors, and pressure-reducing valves, Metal. Framingham Manufacturing Company. No. 132,944; July 6; v. 276; p. 201.
Valves for indicating when the water is boiling in automobile-radiators. G. B. Hutchings. No. 137,798; Dec. 7; v. 281; p. 196.
Valves for internal-combustion engines. Birrell Silent Motor Co. No. 128,630; Jan. 13; v. 270; p. 336.
Valves for machinery. Nash Engineering Co. No. 130,838; May 4; v. 274; p. 188.
Valves for pneumatic tools, Throttle-. Pneumatic Throttle Valve Co. No. 136,902; Nov. 9; v. 280; p. 382.
Valves for shower-baths. W. G. Solomon. No. 137,864; Dec. 7; v. 281; p. 198.
Valves for tires, pneumatic cushions, life-preservers, &c., Air-. Griffin Mfg. Co. No. 131,315; May 11; v. 274; p. 400.
Valves, joints for pipes, valve and pipe fittings. Barco Manufacturing Company. No. 136,313; Nov. 2; v. 280; p. 178.
Valves, Radiator-. Michigan Lubricator Company. No. 135,750; Oct. 19; v. 279; p. 530.
Valves, regulators, &c. Foster Engineering Co. No. 137,227; Nov. 23; v. 280; p. 793.
Valves, Steam-pressure-controlling. Wol-Bur Valve Company. No. 137,428; Nov. 23; v. 280; p. 799.
Valves, water and steam traps, Backwater-. Weir & Craig Company. No. 138,158; Dec. 14; v. 281; p. 402.
Varnish. The P. D. George Company. No. 136,432; Nov. 2; v. 280; p. 181.
Varnish. Twin City Varnish Co. No. 136,670; Nov. 2; v. 280; p. 189.
Varnish, flat wall, &c., paints. A. Nehring & Sons Company. No. 135,498; Oct. 12; v. 279; p. 344.
Varnish or polish for furniture, automobiles, &c. G. Tuschel. No. 137,888; Dec. 7; v. 281; p. 199.
Varnish-paint. The Ault & Wiborg Co. No. 131,957; June 8; v. 275; p. 413.
Varnish-paint. Ault & Wiborg Co. Nos. 132,884–8; July 6; v. 276; p. 199.
Varnish, paints, lacquers. Young and Klots. No. 133,883; Aug. 3; v. 277; p. 179.
Varnish. Prepared liquid. The Don-O-Lac Co. No. 133,236; July 20; v. 276; p. 590.
Varnish preparation. Titanine, Inc. No. 131,854; May 25; v. 274; p. 834.
Varnish, Spirit-. John W. Masury & Son. No. 137,327; Nov. 23; v. 280; p. 796.
Varnish substitute. A. Gusmer, Inc. No. 136,023; Oct. 26; v. 279; p. 719.
Varnish-stains. The Tripod Paint Co. No. 137,728; Nov. 30; v. 280; p. 1001.
Varnish, varnish-reducer, primers, &c. Sealwood Company. No. 129,533; Feb. 24; v. 271; p. 681.
Varnished and enameled surfaces, Polish for. Stickney Color Company No. 131,845; May 25; v. 274; p. 834.
Varnishes, &c., for coloring, &c., straw braid in one operation. A. R. Haeuser Co. No. 131,767; May 25; v. 274; p. 831.
Varnishes for electric insulation. The Sterling Varnish Company. No. 133,047; July 6; v. 276; p. 204.
Varnishes, shellacs, &c. A. R. Haeuser Co. No. 129,361; Feb. 17; v. 271; p. 508.
Varnishes, shellacs, &c., for ladies' straw hats. A. R. Haeuser Co. No. 131,766; May 25; v. 274; p. 831.
Vaults, Grave-. National Grave Vault Company. No. 130,841; May 4; v. 274; p. 188.
Vegetable compound used as an aid to the blood. B. H. Spalding. No. 135,076; Sept. 21; v. 278; p. 535.
Vegetable product used in place of fresh, condensed, or dry milk. Advance Malt Products Company. No. 129,413; Feb. 24; v. 271; p. 677.
Vegetables, Dehydrated. Twin Falls Dehydrating Co. No. 133,066; July 6; v. 276; p. 204.
Vegetables, Fresh. Henry Kaelin & Son. No. 130,076; Apr. 6; v. 273; p. 180.
Vegetables, Fresh. E. M. Sheehan. No. 134,087; Aug. 10; v. 277; p. 391.
Vegetables, Fresh. Crown Packing Company. No. 132,923; July 6; v. 276; p. 200.
Vehicle bodies, Commercial-motor-. Vehicle Top & Supply Company. No. 131,259; May 4; v. 274; p. 201.
Vehicle non-skid tread members, Attaching members for. Staples & Seefeld. No. 138,128; Dec. 14; v. 281; p. 401.
Vehicle-signals, Electrically-operated traffic. J. S. Brown. No. 130,268; Apr. 20; v. 273; p. 619.
Vehicle-springs, fender-braces, shock-absorbers. A R G Auxiliary Spring Co. No. 130,150; Apr. 13; v. 273; p. 401.
Vehicles, Clutches, and universal points for motor-. Merchant & Evans Company. No. 136,099; Oct. 26; v. 279; p. 721.
Vehicles for industrial purposes. Allied Machinery Company of America. No. 135,579; Oct. 19; v. 279; p. 525.
Vehicles, Motor-. Elgin Motor Car Corporation. No. 130,294; Apr. 20; v. 273; p. 620.
Vehicles, Motor-. Oneida Motor Truck Co. No. 135,504; Oct. 12; v. 279; p. 345.
Vehicle-tops. The General Top Company. No. 131,117; May 4; v. 274; p. 196.
Vehicle-tops. The General Top Company. No. 132,687; June 29; v. 275; p. 1015.
Vehicles. Western Wheeled Scraper Company. No. 133,869; Aug. 3; v. 277; p. 179.
Veil, Elastic. Ludewig & Co. No. 131,943; June 1; v. 275; p. 199.
Veils. N. B. Cohen. No 128,958; Jan. 20; v. 270; p. 472.
Veils and hair-nets. Hyman Bauman & Co. Nos. 129,608–9; Mar. 9; v. 272; p. 860.
Veils and hair-nets, &c., Combination. National Trading Company. No. 135,758; Oct. 19; v. 279; p. 530.
Veils and hair-nets, Face-. Fulghum & Company. No. 135,444; Oct. 12; v. 279; p. 343.
Veils, malines, hair-nets, chiffons. Fuld, Traube & Co. No. 130,297; Apr. 20; v. 273; p. 620.
Veilings and nettings. Traub, Lewis & Co. No. 130,948; May 4; v. 274; p. 191.
Velocipedes. Thompson Mfg. Co. No. 130,005; Mar. 16; v. 272; p. 540.
Velocipedes, Children's. The Adjustable Sales Corporation. No. 134,872; Sept. 21; v. 278; p. 529.
Velocipedes, Children's. The Arrow Toy Mfg. Co. No. 137,099; Nov. 23; v. 280; p. 789.
Velvet piece goods. James H. Dunham & Co. No. 135,226; Sept. 28; v. 278; p. 702.
Velvet, wool, and cashmere piece goods. Société Rodier. No. 135,059; Sept. 21; v. 278; p. 534.
Velvet, wool, and cashmere piece goods. Société Rodier. No. 135,061; Sept. 21; v. 278; p. 534.
Venereal diseases, Prophylactic for. The B & R Laboratories & Mfg. Co. No. 133,572; Aug. 3; v. 277; p. 169.
Ventilators, Cowl-. E. Van Noorden & Co. No. 131,255; May 4; v. 274; p. 201.
Ventilators for roofs and skylights. Rohrman-Cooper Company. No. 128,887; Jan. 13; v. 270; p. 342.
Ventilators for exterior use on houses and buildings. Acme Ventilator Corporation. No. 134,870; Sept. 21; v. 278; p. 529.
Vermifuge and remedies for indigestion, biliousness, colds, &c. Dr. J. F. True & Co. No. 134,832; Sept. 14; v. 278; p. 361.
Vessels for heating beverages. H. B. Gibson Co. No. 128,712; Jan. 13; v. 270; p. 339.
Veterinary medicine. J. D. Shields. No. 131,612; May 18; v. 274; p. 608.
Veterinary needles and syringes, pill-injectors, &c. Becton, Dickinson & Co. No. 135,392; Oct. 12; v. 279; p. 341.
Vichy water. Saratoga Vichy Spring Company. No. 129,867; Mar. 9; v. 272; p. 868.
Vinegar. Cascade Cider Company. No. 128,646; Jan. 13; v. 270; p. 336.
Vinegar. Dixie Fruit Products Corporation. No. 134,282; Aug. 24; v. 277; p. 777.
Voile. Burton Bros. & Co. No. 130,272; Apr. 20; v. 273; p. 619.
Voile, Cotton. Royal Embroidery Works, Naday & Fleischer. No. 129,858; Mar. 9; v. 272; p. 867.
Voiles and sateen in the piece. Henry Glass & Co. Nos. 133,668–9; Aug. 3; v. 277; p. 172.
Voiles in the piece. M. Schwarz. No. 131,619; May 18; v. 274; p. 608.

Digitized by Google

Alphabetical list of trade-marks—Continued.

Voiles in the piece. M. Schwarz. No. 133,037; July 6; v. 276; p. 204.
Voltmeters, Armature-testers, &c. American Bureau of Engineering. No. 130,604; May 4; v. 274; p. 181.
Vulcanized fiber. National Fibre and Insulation Company. No. 132,025; June 8; v. 275; p. 415.
Vulcanizers. C. A. Shaler Company. No. 129,872; Mar. 9; v. 272; p. 363.
Wagons. The Holt Manufacturing Company. No. 134,971; Sept. 21; v. 278; p. 532.
Wagons, trailers, radiators for motor-vehicles. The Holt Manufacturing Company. No. 136,469; Nov. 2; v. 280; p. 180.
Waistbands. L. Friedman. No. 138,452; Dec. 28; v. 281; p. 782.
Waists and blouses, Ladies'. A. R. Haas. No. 134,672; Sept. 14; v. 278; p. 356.
Waists and blouses. Korndhandler & Kane. Nos. 156,057–8; Oct. 26; v. 279; p. 720.
Waists and blouses, Ladies'. Einhorn Bros. No. 137,210; Nov. 23; v. 280; p. 792.
Waists and blouses, Ladies'. Spiegel Waist Co. No. 136,637; Nov. 2; v. 280; p. 188.
Waists and blouses, Ladies'. Weil & Weil. No. 136,687; Nov. 2; v. 280; p. 189.
Waists, and collars, Ladies'. J. & M. Cohn, Inc. No. 132,338; June 22; v. 275; p. 817.
Waists and dresses. Ochs & Frank. No. 130,379; Apr. 20; v. 273; p. 622.
Waists and union-suits, Children's. A. Stein & Company. No. 137,479; Nov. 25; v. 280; p. 800
Waists for outer wear, Ladies'. Shapiro Bros. & Mirsky. No. 133,818; Aug. 3; v. 277; p. 177.
Waists for outer wear, Ladies' and misses'. The Arrow Brand Hemstitching & Tucking Co. No. 134,579; Sept. 14; v. 278; p. 353.
Waists, Ladies'. Henry Cohen & Co. No. 137,776; Dec. 7; v. 281; p. 195.
Waists, Ladies'. Reuben and Zukerman. No. 133,794; Aug. 3; v. 277; p. 176.
Waists, Ladies' and misses' outer. J. R. Waist & Dress Co. No. 137,286; Nov. 23; v. 280; p. 795.
Waists Outer. Tedmor Waist Company. No. 137,717; Nov. 30; v. 280; p. 1001.
Waists, Suspender-. Ridenour Garment Co. No. 137,688; Nov. 30; v. 280; p. 1000.
Waists, sweaters, underwear, &c., Women's. I. Abram. No. 137,085; Nov. 23; v. 280; p. 789.
Waists, Women's outer. B. Schultz & Co. No. 129,532; Feb. 24; v. 271; p. 681.
Wall-board. Beaver Company. No. 130,009; Mar. 23; v. 272; p. 731.
Wall-board and building-paper. Muro Wall Board Company. No. 134,517; Sept. 7; v. 278; p. 160.
Wall-board and building-paper. The Beaver Company. Nos. 136,752–3; Nov. 9; v. 280; p. 377.
Wall or partition sections or units. A. H. Revell & Co. No. 133,306; July 20; v. 276; p. 592.
Wallets, bill-folds, and three-folds, Leather-. P. Florin. No. 128,976; Jan. 20; v. 270; p. 473.
Walnut-meats. California Walnut Growers Association. No. 130,162; Apr. 13; v. 273; p. 401.
Walnut sauce and pickled walnuts. California Walnut Sauce Co. No. 130,664; May 4; v. 274; p. 183.
Wardrobes, Folding. Closgard Wardrobe Company. No. 134,616; Sept. 14; v. 278; p. 354.
Washboards. Krenning-Schlapp Grocer Company. No. 130,081; Apr. 6; v. 273; p. 180.
Washboiler. Sargoy Brothers. No. 135,529; Oct. 12; v. 279; p. 345.
Washboilers. Nichthauser & Levy. No. 135,499; Oct. 12; v. 279; p. 344.
Washboilers for laundry purposes. Sargoy Bros. No. 133,808; Aug. 3; v. 277; p. 177.
Washing compound. H. W. Arnor. No. 132,288; June 22; v. 275; p. 815.
Washing compound. A. E. Cleveland. No. 133,387; July 27; v. 276; p. 768.
Washing compound. P. W. Drackett and Sons Company No. 132,359; June 22; v. 275; p. 817.
Washing compound. Fitzpatrick Bros. No. 129,705; Mar. 9; v. 272; p. 363.
Washing compound. L. F. Garris. No. 135,678; Oct. 19; v. 279; p. 528.
Washing compound. Mab Cleaner Manufacturing Company. No. 133,460; July 27; v. 276; p. 770.
Washing compound, Hand-. A. J. Leonard. No. 134,010; Aug. 10; v. 277; p. 388.
Washing compounds. J. Elliot. No. 135,980; Oct. 26; v. 279; p. 718.
Washing fluid. J. Schmitz. No. 130,405; Apr. 20; v. 273; p. 623.
Washing machine, Clothes-. The Delite Manufacturing Co. No. 133,630; Aug. 3; v. 277; p. 171.
Washing machine, Clothes-. Nineteen Hundred Washer Company, The. No. 133,767; Aug. 3; v. 277; p. 175.
Washing-machines. Blue Bird Manufacturing Company. No. 130,042; Apr. 6; v. 273; p. 174.
Washing machines and mangles, Clothes-. J. Kashinsky. No. 135,266; Sept. 28; v. 278; p. 703.
Washing-machines and wringers. General Railway Signal Company. No. 135,447; Oct. 12; v. 279; p. 343.
Washing machines and wringers, Clothes-. The Hirschy Company. No. 136,031; Oct. 26; v. 279; p. 719.
Washing machines, Clothes-. Puffer-Hubbard Manufacturing Company. No. 136,593; Nov. 2; v. 280; p. 186.
Washing machines, Clothes-. Rochester Washing Machine Corp. No. 133,800; Aug. 3; v. 277; p. 176.
Washing machines, Clothes-. Wayne Manufacturing Company. No. 138,157; Dec. 14; v. 281; p. 402.
Washing machines, Electric clothes-. C. F. Adams Company. No. 136,734; Nov. 9; v. 280; p. 377.
Washing machines, Laundry-. Albaugh-Dover Company. No. 133,560; Aug. 3; v. 277; p. 169.
Washing machines, Laundry-. Almetal Manufacturing Company. No. 138,532; Dec. 28; v. 281; p. 785.
Washing machines, Laundry-. Michigan Washing Machine Company. No. 128,459; Jan. 6; v. 270; p. 182.
Washing machines, Laundry-. Rochester Electrical Supply Co. No. 135,786; Oct. 19; v. 279; p. 531.
Washing machines, Laundry-. Voss Bros. Mfg. Co. No. 130,133; Apr. 6; v. 273; p. 182.
Washing-machines, Laundry power. Automatic Electric Washer Co. No. 130,037; Apr. 6; v. 273; p. 179.
Washing-powder. Citrus Soap Company. No. 134,909; Sept. 21; v. 278; p. 530.
Washing-powder. C. B. Garnett. No. 135,677; Oct. 19; v. 279; p. 528.
Washing-powder. D. Leppert. No. 129,770; Mar. 9; v. 272; p. 365.
Washing-powder. R. E. Leyendecker. No. 130,013; Mar. 23; v. 272; p. 731.
Washing-powder. C. J. Squires. No. 129,887; Mar. 9; v. 272; p. 368.
Washing-powder. H. C. Sutton. No. 133,842; Aug. 3; v. 277; p. 178.
Washing-powder. West Coast Soap Co. No. 136,255; Oct. 26; v. 279; p. 726.
Washing-powder, Citrus Soap Company. Nos. 135,217–19; Sept. 28; v. 278; pp. 701–2.
Washing-powder. F. O. Quinn. No. 135,048; Sept. 21; v. 278; p. 534.
Washing powders and soaps. Serv-Us Grocery Products Corporation. No. 137,445; Nov. 23; v. 280; p. 799.
Washing preparation. R. J. Peska. No. 134,064; Aug. 10; v. 277; p. 390.
Waste cotton, silk, and waste paper, &c., Bales or bags of. M. Frank. No. 132,945; July 6; v. 276; p. 201.
Waste for use as a duster, Chemically-treated. F. H. McGregory. No. 137,508; Nov. 23; v. 280; p. 804.
Watch and clock dials. J. R. Bartlett. No. 132,893; July 6; v. 276; p. 199.
Watch and clock dials, Protective facings or coverings for. I. Florman. No. 132,941; July 6; v. 276; p. 201.
Watch and clock parts. Henry Zimmern & Company. No. 134,147; Aug. 10; v. 277; p. 392.
Watch-chains. Goldsmith, Stern & Co. No. 129,729; Mar. 9; v. 272; p. 263.
Watch materials. Waltham Watch Company. No. 130,437; Apr. 20; v. 273; p. 624.
Watch-movements. National Watch Company. No. 132,213; June 15; v. 275; p. 619.
Watches. W. J. Bernard. No. 132,897; July 6; v. 276; p. 199.
Watches. J. Bulova Company. Nos. 132,903–6; July 6; v. 276; p. 200.
Watches. Dubois Watch Case Company. No. 132,930; July 6; v. 276; p. 200.
Watches. J. Gottlieb. No. 136,817; Nov. 9; v. 280; p. 379.
Watches. The D. Gruen Sons and Company. No. 132,157; June 15; v. 275; p. 617.
Watches. The D. Gruen Sons & Company. No. 132,953; July 6; v. 276; p. 201.
Watches. C. I. Josephson. No. 136,487; Nov. 2; v. 280; p. 183.
Watches. Knickerbocker Watch Co. Nos. 130,331–2; Apr. 20; v. 273; p. 621.
Watches. Knickerbocker Watch Co. Nos. 131,156–8; May 4; v. 274; p. 198.
Watches. Knickerbocker Watch Co. No. 132,982; July 6; v. 276; p. 202.
Watches. Knickerbocker Watch Co. No. 133,154; July 13; v. 276; p. 402.
Watches. Laubheim Bros. No. 134,995; Sept. 21; v. 278; p. 532.
Watches. Lorraine Watch Co. No. 134,014; Aug. 10; v. 277; p. 388.
Watches. A. & J. Plaut. No. 135,508; Oct. 12; v. 279; p. 345.
Watches. M. Schussler & Co. No. 130,408; Apr. 20; v. 273; p. 623.
Watches. Simmons Hardware Company. No. 130,918; May 4; v. 274; p. 190.
Watches. A. W. Sproehule. No. 134,324; Aug. 24; v. 277; p. 781.
Watches and clocks. E. Rothman. No. 130,895; May 4; v. 274; p. 190.
Watches and clocks. Thos. Russell & Son. No. 130,900; May 4; v. 274; p. 190.
Watches and clocks. Tiffany & Company. No. 132,262; June 15; v. 275; p. 620.
Watches and clocks, Luminous hand for. Hinds Luminous Compound Company. No. 130,316; Apr. 20; v. 273; p. 621.

Digitized by Google

Alphabetical list of trade-marks—Continued.

Watches and parts thereof. Société Anonyme Les fils de L. Braunschweig, Fabrique Election. No. 133,042; July 6; v. 276; p. 204.
Watches and watch-movements. Adolphe Schwob, Inc. No. 135,066; Sept. 21; v. 278; p. 535.
Watches, clocks, and alarm-clocks. Pilgrim Clock Company. No. 137,078; Nov. 30; v. 280; p. 999.
Watches, clocks, and parts thereof. Meyer & Stüdeli, S. A. Nos. 137,336–8; Nov. 23; v. 280; p. 796.
Watches, watch cases, works, and dials. Paul Forbriger & Co. No. 135,240; Sept. 28; v. 278; p. 702.
Watches, watch-movements and dials, watchcases. I. Ollendorff Company. No. 132,220; June 15; v. 275; p. 619.
Watches, watch-movements, watch-cases, and parts thereof. American Swiss Watch Co. No. 134,568; Sept. 14; v. 278; p. 353.
Watches, watch-movements, &c. A. Wiss. No. 135,362; Sept. 28; v. 278; p. 706.
Watchcases. Dinstman & Laske. No. 131,445; May 18; v. 274; p. 602.
Watchcases. The Keystone Watch Case Company. No. 136,841; Nov. 9; v. 280; p. 380.
Watchcases. Roy Watch Case Company. No. 133,029; July 6; v. 276; p. 203.
Water and beverages made from same, Natural spring-. Chippewa Springs Corporation. No. 130,164; Apr. 13; v. 273; p. 401.
Water, Artificial mineral. Valentin, Ord & Co. No. 131,655; May 18; v. 274; p. 609.
Water-bottles, syringe-bags, &c. The Miller Rubber Co. No. 133,005; July 6; v. 276; p. 203.
Water, Carbonated. C. G. Mangos. No. 131,546; May 18; v. 274; p. 606.
Water, Charged table-. A. D. Shepard. No. 128,852; Jan. 13; v. 270; p. 343.
Water, Concentrated natural mineral-well. E. E. Dismuke. No. 132,129; June 15; v. 275; p. 616.
Water-containers for refrigerators. Novelty Manufacturing Company. No. 136,563; Nov. 2; v. 280; p. 185.
Water-cooler. The Sanibrass Corporation. No. 135,328; Sept. 28; v. 278; p. 705.
Water. Electrified Water and Machine Company. No. 131,744; May 25; v. 274; p. 831.
Water-heaters. Federal Water Heater Company. No. 138,183; Dec. 14; v. 281; p. 404.
Water-heaters, Electric. Pemelco Sales Co. No. 130,385; Apr. 20; v. 273; p. 623.
Water-heaters, &c., Gas, gasolene, and kerosene. The Sands Manufacturing Company. No. 134,794; Sept. 14; v. 278; p. 360.
Water, Mineral. Orange City Mineral Spring Company. No. 129,197; Jan. 27; v. 270; p. 615.
Water-motors. Victor Water Motor Corporation. No. 133,860; Aug. 3; v. 277; p. 178.
Water pumping and supply systems, Pneumatic. Milwaukee Air Power Pump Company. No. 128,792; Jan. 13; v. 270; p. 341.
Water-softener. A. Raffo. No. 129,840; Mar. 9; v. 272; p. 367.
Water, Table-. Jacob Ries Bottling Works. No. 129,172; Jan. 27; v. 270; p. 615.
Water-towers. Steel. J. Armstrong. No. 133,351; July 27; v. 276; p. 767.
Waters, Mineral and aerated. W. A. Ross & Sons. No. 131,366; May 11; v. 274; p. 401.
Waters, non-alcoholic, non-cereal, maltless beverages and syrup for making same, Spring, carbonated, and distilled. Boonville Mineral Spring Co. No. 135,919. Oct. 26; v. 279; p. 716.
Waterers and coops, Chicken. Harper & McIntire Company. No. 134,372; Aug. 31; v. 277; p. 972.
Waterproof and non-waterproof coats, hats, &c. J. T. Caradine. No. 134,344; Aug. 31; v. 277; p. 971.
Waterproof automobile textile material, &c. The W. J. Donnelly Company. No. 134,632; Sept. 14; v. 278; p. 355.
Waterproof clothing. United States Rubber Company. No. 138,361; Dec. 21; v. 281; p. 567.
Waterproof clothing. National Water-Proofing Company. No. 133,764; Aug. 3; v. 277; p. 175.
Waterproof diaper-covers. The Warner Bros. Co. No. 130,985; May 4; v. 274; p. 192.
Waterproof drawing-inks. Winsor & Newton. No. 129,939; Mar. 9; v. 272; p. 370.
Waterproof dressing for leather, &c. G. W. Baker. No. 131,030; May 4; v. 274; p. 194.
Waterproof dressing for shoes. Gold Medal Cleaner Co. No. 135,449; Oct. 12; v. 279; p. 343.
Waterproof dressing for textiles, &c. Baker-Overton Company. No. 128,928; Jan. 20; v. 270; p. 471.
Waterproof fabrics. O'Bannon Corporation. No. 137,918; Dec. 7; v. 281; p. 201.
Waterproof fabrics. J. Scarlett. No. 132,797; June 29; v. 275; p. 1019.
Waterproof fabrics in the piece. C. Kenyon Company. No. 137,294; Nov. 23; v. 280; p. 795.
Waterproof fabrics in the piece. The Pantasote Leather Company. Nos. 135,030–1; Sept. 21; v. 278; p. 534.
Waterproof goods. Union City Manufacturing Co. No. 130,953; May 4; v. 274; p. 191.
Waterproof goods. Union City Manufacturing Co. No. 132,566; June 22; v. 275; p. 824.
Waterproof hand-bags and purses. T. Hutnikow. No. 129,005; Jan. 20; v. 270; p. 474.
Waterproof roofings and building-papers. The Paraffine Companies. No. 132,772; June 29; v. 275; p. 1018.
Waterproof truck and tractor covers, tarpaulins, &c. Dafoe-Eustice Company. No. 130,171; Apr. 18; v. 273; p. 401.
Waterproof upholstering fabrics. O'Bannon Corporation. No. 137,010; Nov. 9; v. 280; p. 388.
Waterproofed cotton-duck cloth. John Boyle & Company. No. 137,080; Nov. 16; v. 280; p. 586.
Waterproofed fabric. Athol Manufacturing Company. No. 137,935; Dec. 14; v. 281; p. 395.
Waterproofed textile fabric. Duratex Company. No. 132,362; June 22; v. 275; p. 817.
Waterproofing and preserving automobile-tops, &c., Preparation for. W. B. Price. No. 134,771; Sept. 14; v. 278; p. 359.
Waterproofing compound. C. J. Nethercott. No. 129,807; Mar. 9; v. 272; p. 366.
Waterproofing compound. A. H. Rothschild. No. 131,922; May 25; v. 274; p. 836.
Waterproofing, damp-proofing, and liquid hardener for cement and cement mixtures, Liquid. Anti-Hydro Waterproofing Company. No. 135,193; Sept. 28; v. 278; p. 701.
Waterproofing-oils for leather. A. W. Zieseniss. No. 130,141; Apr. 6; v. 273; p. 182.
Waterproofing textiles, Chemical compounds for. The Chemical Company of America. No. 134,906; Sept. 21; v. 278; p. 530.
Wax, ceresin, japan wax, &c., Paraffin-. Smith & Nichols, Incorporated. No. 132,812; June 29; v. 275; p. 1019.
Wax, Ironing-. M. Forst. No. 129,708; Mar. 9; v. 272; p. 363.
Wax, Ironing-. W. R. Hollingshead Company. No. 138,465; Dec. 28; v. 281; p. 782.
Wax-polish. Marshall Oil Company. No. 132,455; June 22; v. 275; p. 820.
Waxes, Insulating. Smith & Nichols. No. 134,091; Aug. 10; v. 277; p. 391.
Wearing-apparel for ladies. Douglass Barnes Corporation. No. 128,969; Jan. 20; v. 270; p. 472.
Weatherproof coats. W. O. Peake Ltd. No. 133,298; July 20; v. 276; p. 592.
Webbing, Cotton. American Textile Banding Company. No. 131,930; June 1; v. 275; p. 199.
Webbing, Elastic and non-elastic. American Webbing Manufacturers Export Corporation. No. 131,403; May 18; v. 274; p. 601.
Webbing in the piece. Hope Webbing Company. No. 133,432; July 27; v. 276; p. 769.
Webbings. Anchor Webbing Co. No. 130,619; May 4; v. 274; p. 181.
Webs, Elastic. Faire Bros. & Co. Nos. 132,936–7; July 6; v. 276; p. 201.
Webs, Elastic. Faire Bros. & Co. No. 133,408; July 27; v. 276; p. 768.
Webs, Elastic. Faire Bros. & Co. No. 133,411; July 27; v. 276; p. 768.
Webs, Elastic. Faire Bros. & Co. No. 133,961; Aug. 10; v. 277; p. 387.
Webs, Elastic. Faire Bros. & Co. No. 134,942; Sept. 21; v. 278; p. 531.
Welding cast-iron, Scaling-powder for. Davis-Bournonville Company. No. 136,392; Nov. 2; v. 280; p. 180.
Welding-machines, Electric. Electric Welding Machine Co. No. 131,743; May 25; v. 274; p. 831.
Welding or brazing brass, bronze, &c., Flux-powder for. Davis-Bournonville Company. No. 136,393; Nov. 2; v. 280; p. 180.
Welding-rods. Oxweld Acetylene Company. No. 138,325; Dec. 21; v. 281; p. 566.
Well drilling and operating equipment and machinery, Oil and Artesian. Union Tool Company. No. 129,314; Feb. 10; v. 271; p. 356.
Well-drilling machinery and tools and steam-engines. Star Drilling Machine Company. No. 138,129; Dec. 14; v. 281; p. 401.
Well-drilling machinery and tools and well equipment. Longhorn Drilling & Developing Association. No. 131,537; May 18; v. 274; p. 605.
Wheel, Vehicle-. Jaxon Steel Products Company. No. 132,715; June 29; v. 275; p. 1016.
Wheels, Automobile and aeroplane. Reliance Wheel Co. No. 130,890; May 4; v. 274; p. 190.
Wheels, barges, tramways, &c. American Steel Export Company. No. 129,258; Feb. 10; v. 271; p. 355.
Wheels, Cast-metal vehicles-. Kenosha Wheel & Axle Company. No. 131,153; May 4; v. 274; p. 197.
Wheels, Felt polishing-. Eastern Felt Company. No. 131,900; May 25; v. 274; p. 836.
Wheels, Felt polishing-. Eastern Felt Company. No. 131,978; June 8; v. 275; p. 414.
Wheels for bicycles, &c., Motor-. A. O. Smith Corporation. No. 129,311; Feb. 10; v. 271; p. 356.
Wheels, Grinding-. Waltham Grinding Wheel Company. No. 136,276; Oct. 26; v. 279; p. 728.

Digitized by Google

Alphabetical list of trade-marks—Continued.

Wheels, Grinding and polishing. Abrasive Company. No. 133,888; Aug. 10; v. 277; p. 385.
Wheels, Motor-vehicle. Baker Wheel & Rim Company. No. 135,197; Sept. 28; v. 278; p. 701.
Wheels, Tractor-. William Wharton, Jr., & Co. No. 129,246; Jan. 27; v. 270; p. 617.
Wheels, Vehicle-. Stopshok Wheel Co. No. 129,224; Jan. 27; v. 270; p. 616.
Whistles, Chime. The Lunkenheimer Company. No. 136,723; Nov. 2; v. 280; p. 192.
Whistles, Electric steam alarm-. C. M. Lovsted. No. 130,799; May 4; v. 274; p. 187.
Whiting. R. T. Vanderbilt Company. No. 131,253; May 4; v. 274; p. 201.
Wind instrument, Novelty. G. W. Stewart. No. 132,820; June 29; v. 275; p. 1019.
Wind-shield or glass clear, Chemical compound for keeping. Cleroline Chemical Co. No. 133,618; Aug. 3; v. 277; p. 171.
Window and door frames, Wooden. Andersen Lumber Company. No. 135,591; Oct. 19; v. 279; p. 525.
Window and door frames, Wooden. Andersen Lumber Company. No. 136,745; Nov. 9; v. 280; p. 377.
Window-cleaning composition. E. W. Bond. No. 132,099; June 15; v. 275; p. 615.
Window-guards. Kay Manufacturing Co. No. 129,291; Feb. 10; v. 271; p. 356.
Window-locks. S. Goldstein. No. 136,721; Nov. 2; v. 280; p. 191.
Window-regulators. Ternstedt Manufacturing Co. No. 138,140; Dec. 14; v. 281; p. 401.
Window-screens. Empire Rolling Screen Co. No. 128,682; Jan. 13; v. 270; p. 338.
Windows or flexible transparency-sheets for automobile or vehicle tops, Celluloid curtain-. Cincinnati Auto Specialty Co. No. 138,381; Dec. 21; v. 281; p. 569.
Windshield-cleaners. Outlook Company. No. 133,015; July 6; v. 276; p. 203.
Windshield cleaners, Automobile-. L. D'Eyraud. No. 137,590; Nov. 30; v. 280; p. 997
Windshields, Automobile-. Powell-McLean Specialty Co. No. 137,679; Nov. 30; v. 280; p. 999.
Wine, Imitation. C. L. Beardsley. No. 137,944; Dec. 14; v. 281; p. 395.
Wines. J. de Burgos Luque. No. 135,005; Sept. 21; v. 278; p. 533.
Wines, Dealcoholized. Garrett and Company. No. 134,503; Sept. 7; v. 278; p. 160.
Wines and champagnes, Non-alcoholic. Wm. H. Hommel. No. 133,431; July 27; v. 276; p. 769.
Wiping and cleaning apparatus for automobile windshields, &c. Presto-Felt Mfg. Co. No. 133,021; July 6; v. 276; p. 203.
Wire and manila ropes and wire cables. Western Rope & Manufacturing Company. No. 133,089; July 6; v. 276; p. 205.
Wire and metallic strips of an alloy containing manganese. Driver-Harris Company. No. 133,237; July 20; v. 276; p. 590.
Wire and particularly magnet-wire. The Toledo Enameled Wire Products Co. No. 134,830; Sept. 14; v. 278; p. 361.
Wire and wire fencing, Fence-. American Steel & Wire Company of New Jersey. No. 130,457; Apr. 27; v. 273; p. 801.
Wire-cloth and fencing of iron wire. Clinton Wire Cloth Company. No. 133,616; Aug. 3; v. 277; p. 171.
Wire-cloth, Screen. American Wire Fabrics Company. No. 137,931; Dec. 14; v. 281; p. 395.
Wire door-springs, Helical. American Steel and Wire Company of New Jersey. No. 130,456; Apr. 27; v. 273; p. 801.
Wire fabrics, Woven-. Clinton Wire Cloth Company. No. 137,775; Dec. 7; v. 281; p. 195.
Wire fencing. Pittsburgh Steel Company. No. 135,572; Oct. 12; v. 279; p. 347.
Wire meat-broilers. H. J. Chamberlin, Inc. No. 130,277; Apr. 20; v. 273; p. 619.
Wire, rods, sheets, &c. Driver-Harris Company. No. 131,300; May 11; v. 274; p. 399.
Wire stitching or stapling machines and parts thereof. Boston Wire Stitcher Company. No. 135,920; Oct. 26; v. 279; p. 716.
Wires, Steel, &c. V. V. Lebedjeff Engineering & Supply Corporation. No. 136,854; Nov. 9; v. 280; p. 381.
Wires, cables, and cordage used for electrical purposes. American Electrical Works. No. 137,929; Dec. 14; v. 281; p. 395.
Wireless apparatus and electrical goods. Kilbourne & Clark Manufacturing Co. No. 135,722; Oct. 19; v. 279; p. 529.
Wireless apparatus, &c. The Precision Equipment Co. No. 135,776; Oct. 19; v. 279; p. 531.
Witch-hazel, disinfectant, &c. F. P. Symonds. No. 135,088; Sept. 21; v. 278; p. 535.
Wood-preservative. Denver Gas & Electric Light Company. No. 129,446; Feb. 24; v. 271; p. 678.
Wood-pulp boards and blocks. International Insulation Company. No. 132,000; June 8; v. 275; p. 414.
Woodworking-machines. S. A. Woods Machine Co. No. 133,198; July 13; v. 276; p. 404.
Wool and cotton admixture piece goods. Edward Ripley & Son. No. 135,309; Sept. 28; v. 278; p. 704.
Wool, Compound for cleaning and bleaching. Hagemeyer Trading Company. No. 138,461; Dec. 28; v. 281; p. 782.
Wool, talc, raw asbestos, &c, Mineral. A. C. Fischer. No. 136,419; Nov. 2; v. 280; p. 181.
Woolen and cotton piece goods. China & Japan Trading Company. No. 131,722; May 25; v. 274; p. 830.
Woolen and cotton piece goods. Société Rodier. No. 135,060; Sept. 21; v. 278; p. 534.
Woolen cloth for tailoring purposes. Rosenberg Bros. No. 134,075; Aug. 10; v. 277; p. 390
Woolen dress and fancy cotton piece goods. Nacoma Textile Co. No. 132,210; June 15; v. 275; p. 619.
Woolen goods in the piece. Worumbo Manufacturing Company. No. 133,549; July 27; v. 276; p. 773.
Woolen piece goods. L. Black Company. No. 129,429; Feb. 24; v. 271; p. 677.
Woolen piece goods. L. Black Company. Nos. 129,618–9; Mar. 9; v. 272; p. 360.
Woolen piece goods. Forstmann & Huffmann Co. Nos. 129,709–11; Mar. 9; v. 272; p. 363.
Woolen piece goods. Forstmann & Huffmann Co. Nos. 129,962–3; Mar. 9; v. 272; p. 371.
Woolen piece goods. Forstmann & Huffmann Co. No. 130,723; May 4; v. 274; p. 185.
Woolen piece goods. Forstmann & Huffmann. Nos. 131,462–3; May 18; v. 274; p. 603.
Woolen piece goods. Forstmann & Huffmann Co. No. 133,658; Aug. 3; v. 277; p. 172.
Woolen piece goods. Forstmann & Huffmann Co. Nos. 135,242–3; Sept. 28; v. 278; p. 702.
Woolen piece goods. Forstmann & Huffmann Co. Nos. 135,674–5; Oct. 19; v. 279; p. 528.
Woolen piece goods. Forstmann & Huffmann Co. Nos. 135,999; Oct. 26; v. 279; p. 718.
Woolen piece goods. Pawcatuck Woolen Mills. No. 133,485; July 27; v. 276; p. 771.
Woolen piece goods. Worumbo Manufacturing Company. Nos. 129,943–6; Mar. 9; v. 272; p. 370.
Woolen piece goods. Worumbo Manufacturing Company. No. 130,595; Apr. 27; v. 273; p. 805.
Woolen piece goods. Worumbo Manufacturing Company. Nos. 135,856–7; Oct. 19; v. 279; p. 533.
Woolens, worsted, silk, &c., piece goods. Pearsall & Company. No. 133,486; July 27; v. 276; p. 771.
Worm and insect exterminator. W. Kea. No. 132,427; June 22; v. 275; p. 819.
Worm-expeller, horse, cattle, and hog tonics, and hog-dip. H. B. Bernard. No. 132,300; June 22; v. 275; p. 815.
Worm-exterminator. C. J. Martin. No. 131,549; May 18; v. 274; p. 606.
Worm-syrup. John L. Newkirk Company. No. 137,661; Nov. 30; v. 280; p. 999.
Worsted and woolen textile fabrics in the piece. Holden-Leonard Company. No. 133,428; July 27; v. 276; p. 769.
Worsted cloth in the piece. Benson Brothers. No. 132,096; June 15; v. 275; p. 615.
Worsted cloth in the piece. International Worsted Mills. No. 134,980; Sept. 21; v. 278; p. 532.
Worsted-combs, Stop-motions for. Jewett & Fitzgerald. No. 137,280; Nov. 23; v. 280; p. 794.
Worsted in the piece, Light-weight all-wool. Cohen & Ehrenberg. No. 135,220; Sept. 28; v. 278; p. 702.
Worsted waste and noils. A. H. Zayotti. No. 136,713; Nov. 2; v. 280; p. 190.
Worsted-winders. E. B. Estes & Sons. No. 131,105; May 4; v. 274; p. 196.
Woven, knitted, netted, &c., fabrics in the piece. Cheney Brothers. Nos. 134,305–8; Aug. 24; v. 277; p. 781.
Wreath, Floral. G. L. Straub. No. 134,824; Sept. 14; v. 278; p. 361.
Wrenches. J. H. Faw Inc. No. 130,717; May 4; v. 274; p. 184.
Wrenches. Packer Auto Specialty Co. No. 131,359; May 11; v. 274; p. 401.
Wrenches. Romaro Machine & Tool Co. No. 138,100; Dec. 14; v. 281; p. 400.
Wrenches. C. E. Wakefield. No. 135,574; June 22; v. 275; p. 824.
Wrenches. Walworth Mfg. Co. No. 135,847; Oct. 19; v. 279; p. 533.
Wrenches. W. Worcester. No. 130,244; Apr. 13; v. 273; p. 404.
Wrenches and socket-wrench sets. L. Druland. No. 131,301; May 11; v. 274; p. 399.
Wrenches, pipe-cutters, &c. Larco Wrench and Mfg. Corporation. No. 131,336; May 11; v. 274; p. 401.
Wrenches, Ratchet-. W. B. Lane. No. 130,995; May 4; v. 274; p. 193.
Wrenches, screw-drivers, hammers. Herbrand Co. No. 130,511; Apr. 27; v. 273; p. 803.
Wrenches, Socket-. American Grinder Manufacturing Company. No. 128,597; Jan. 13; v. 270; p. 335.
Wringer and washboard, Combined. The Pierson Company. No. 138,087; Dec. 14; v. 281; p. 400.

Digitized by Google

Written articles, Original. A. A. Baer. No. 126,310; Nov. 2; v. 280; p. 178.
Writing fluid. N. Katz. No. 129,761; Mar. 9; v. 272; p. 364.
Writing fluid. Western Products Co. No. 135,852; Oct. 19; v. 279; p. 533.
Writing-paper and envelops. George B. Hurd & Co. No. 132,173; June 15; v. 275; p. 618.
X-ray apparatus. J. J. Lowe. No. 134,721; Sept. 14; v. 278; p. 357.
X-ray units, Cabinets of. Campbell Electric Co. No. 135,408; Oct. 12; v. 279; p. 342.
Yarn. Marshall Field & Company. No. 130,544; Apr. 27; v. 273; p. 804.
Yarn. C. D. Newell. No. 134,421; Aug. 31; v. 277; p. 973.
Yarn. H. F. Salisbury. No. 130,569; Apr. 27; v. 273; p. 804.
Yarn, Hand-knitting. Wool Novelty Co. No. 137,743; Nov. 30; v. 280; p. 1001.
Yarn, Knitting-. Carver-Beaver Yarn Co. No. 132,909; July 6; v. 276; p. 200.
Yarn of worsted, wool, silk, &c. Nonotuck Silk Company. No. 134,422; Aug. 31; v. 277; p. 973.
Yarn, Wool knitting-. Sears, Roebuck and Co. No. 131,829; May 25; v. 274; p. 833.
Yarn, Worsted fingering-. Vanity Yarn Company. No. 128,890; Jan. 13; v. 270; p. 344.
Yarns. American Trading Company. No. 129,976; Mar. 16; v. 272; p. 539.
Yarns. Langerre Sales Co. No. 128,428; Jan. 6; v. 270; p. 181.
Yarns, Cotton. H. Ray Paige & Company. No. 138,862; Dec. 14; v. 281; p. 409.
Yarns, Dyed. Solway Dyeing & Textile Company. No. 137,707; Nov. 30; v. 280; p. 1090.
Yarns, Worsted fingering-. Walker Yarn Company. No. 132,066; June 8; v. 275; p. 416.
Yarns, Worsted knitting-. W. J. Welhemmayer. No. 128,895; Jan. 13; v. 270; p. 344.
Yeast. Cereal Products Refining Company. No. 137,145; Nov. 23; v. 280; p. 790.
Yeast. Ideal Yeast Company. No. 136,475; Nov. 2; v. 280; p. 183.
Zinc stearate. The Stearyte Co. No. 135,079; Sept. 21; v. 278; p. 535.
Zirconium compounds. Titanium Alloy Manufacturing Company. No. 129,554; Feb. 24; v. 271; p. 681.

ALPHABETICAL LIST OF LABELS.

"A. B. C." (For Brooms.) The Abilene Broom Company. No. 21,650; Feb. 3; v. 271; p. 153.
"A Little Goes a Long Way." (For Preparation for Treatment of the Hair.) H. Evans. No. 21,996; Aug. 24; v. 277; p. 785.
"A Matter of Good Taste." (For Candies—Namely, Chocolates.) Johnson Biscuit Company. No. 22,326; Dec. 7; v. 281; p. 203.
"A Ruler." (For Insect-Destroyer.) William H. Dechant. No. 22,054; Aug. 31; v. 277; p. 977.
"Absolutely." (For Coffee.) Dwinell-Wright Company. No. 21,660; Feb. 3; v. 271; p. 153.
"Acme." (For a Healthful Beverage.) Nevada Products Company. No. 22,308; Nov. 30; v. 280; p. 1005.
"Acqua Di Chinina Magone." (For a Hair-Tonic.) R. Julian. No. 21,972; Aug. 17; v. 277; p. 583.
"Adriatic Brand Oil." (For Metal Cans Containing Oil.) Colonial Can Company. No. 22,247; Nov. 23; v. 280; p. 806.
"Air-Peds." (For Shoe Soles and Heels.) Pioneer Products, Inc. No. 22,276; Nov. 23; v. 280; p. 807.
"All In One Ointment." (For Ointment.) Shepherd & Cleveland. No. 22,169; Sept. 21; v. 278; p. 541.
"All-Size-Cap." (For Cloth Caps.) Fine & Levy. No. 21,997; Aug. 24; v. 277; p. 785.
"All Star." (For Canned Peaches.) Harbor City Canning Co. No. 21,718; Feb. 24; v. 271; p. 683.
"Alp." (For Men's Drawers.) A. L. Pierson Mfg. Co. No. 21,953; Aug. 3; v. 277; p. 180.
"Alta." (For Cigars.) Boston Union Cigarmakers Co-Operative. No. 22,352; Dec. 14; v. 281; p. 409.
"Amebacide Compounds." (For Remedy for Dysentery.) E. S. Julian. No. 21,945; Aug. 3; v. 277; p. 180.
"American." (For Chocolate.) American Chocolate Company. No. 21,695; Feb. 24; v. 271; p. 683.
"American Beauty Hair Tonic." (For Hair-Tonic.) R. Odell & Sons Co. No. 22,363; Dec. 14; v. 81; p. 409.
"American Cloth." (For Cloth.) Peters Manufacturing Co. No. 22,163; Sept. 21; v. 278; p. 541.
"American Disinfectant." (For American Disinfectant.) P. A. Mandabach. No. 22,015; Aug. 24; v. 277; p. 785.
"American Leader." (For Flour.) Bay City Milling Co. No. 21,853; May 11; v. 274; p. 403.
"Anatolikos Astir." (For Coffee.) The Commercial Tea & Coffee Co. No. 21,854; May 11; v. 274; p. 403.
"Angel Brand Tomato Paste." (For Tomato Paste.) New Central Canning Co., Inc. No. 22,274; Nov. 23; v. 280; p. 807.
"Anise Drops." (For Candies.) Beech-Nut Packing Company. No. 22,241; Nov. 23; v. 280; p. 806.
"Antiplasma Label." (For Malarial Medicine.) Malarial Specific Company, Inc. No. 22,014; Aug. 24; v. 277; p. 785.
"Aquazone Oxygen Water." (For Oxygen-Water.) Inter-Urban Water Company, (now by change of name Aquazone Laboratories, Inc.). No. 22,325; Dec. 7; v. 281; p. 203.
"Aquila Brand Macaroni." (For Macaroni.) C. Gugino. No. 21,664; Feb. 3; v. 271; p. 153.
"Argonne Cavity Fluid." (For Cavity Fluid.) H. A. Slater. No. 21,980; Aug. 17; v. 277; p. 583.
"Argonne Embalming Fluid." (For Embalming Fluid.) H. A. Slater. No. 21,981; Aug. 17; v. 277; p. 583.
"Armory Brand." (For Canned Food Products.) Walker-Matteson Co. No. 21,803; Apr. 13; v. 273; p. 405.
"Armory Brand." (For Various Items of Dried Products—Namely, Apricots, Peaches, Prunes, and Plums.) Walker-Matteson Company. No. 21,898; June 29; v. 275; p. 1022.
"Arnold's Strip Bluing." (For Bluing.) Arnold Bluing Company. No. 21,617; Jan. 6; v. 270; p. 137.
"Aro Maté." (For a Non-Alcoholic Beverage.) Lash's Products Company. No. 22,359; Dec. 14; v. 281; p. 409.
"Arrow." (For a Beverage.) The Gottlieb Baurnschmidt Straus Brewing Company. No. 22,295; Nov. 30; v. 280; p. 1005.
"Asiago Basso." (For Cheese.) The Basso Co. No. 22,143; Sept. 21; v. 278; p. 541.
"Assorted Charms." (For Fruit Tablets—Namely, Charms, Assorted Flavor.) Charms Company. No. 21,847; Apr. 27; v. 273; p. 806.
"Assorted Chocolates." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,335; Dec. 7; v. 281; p. 203.
"Atlasette, The Glove I Love." (For Gloves.) Atlasette Gloves Inc. No. 22,142; Sept. 21; v. 278; p. 541.
"Atmore's Make-A-Cake." (For Preparation for Making Cake.) Atmore & Son, Inc. No. 21,876; June 29; v. 275; p. 1022.
"B & G Manufacturers & Distributers Wire and Sheet Products." (For Metal Wire and Sheet-Metal Products.) B & G Wire Products Co. No. 22,042; Aug. 31; v. 277; p. 977.
"B. O. K. Malt Extract." (For Malt Extract.) H. D. Sterick. No. 22,347; Dec. 7; v. 281; p. 203.
"Bake-Rite." (For Lard Substitutes.) International Refining Company. No. 21,666; Feb. 3; v. 271; p. 153.
"Baker's Cocoanut." (For Cocoanut.) The Franklin Baker Company. No. 21,661; Feb. 3; v. 271; p. 153.
"Baker's Pride." (For Bread.) Sanitwax Paper Co. No. 21,837; Apr. 20; v. 273; p. 627.
"Baker's Toasted Coco-Nutlets." (For Packaged Cocoanut.) The Franklin Baker Company. No. 21,665; June 29; v. 275; p. 1022.
"Ballard Biscuit Flour." (For Flour.) Ballard & Ballard Co. No. 21,879; June 29; v. 275; p. 1022.
"Ballard Buckwheat." (For Buckwheat.) Ballard & Ballard Co. No. 21,877; June 29; v. 275; p. 1022.
"Ballard Pancake." (For Flour.) Ballard & Ballard Co. No. 21,878; June 29; v. 275; p. 1022.
"Barker's Disinfectant." (For Disinfectant for Use on Poultry and Animals and in the Household.) Barker, Moore & Mein Med. Co. No. 22,230; Nov. 23; v. 280; p. 806.
"Barlow-Kimnet." (For Metal and Wood Display Wax Figures, Forms, and Stove-Display Equipment.) The Barlow-Kimnet Co. No. 21,806; Apr. 20; v. 273; p. 627.
"Bears Fluff Powder." (For Fluff-Powder.) Bear Brothers Co. No. 21,957; Aug. 10; v. 277; p. 393.
"Beaux Arts Candy." (For Candies.) C. W. Cannar. No. 21,910; July 27; v. 276; p. 774.
"Berwick Smoking Mixture." (For Smoking-Tobacco.) Lovell-Buffington Tobacco Company. No. 22,361; Dec 14; v. 281; p. 409.
"Big Chief Tonic." (For a Medicine.) J. H. B. Page. No. 21,739; Feb. 24; v. 271; p. 684.
"Big '6' Chocolate." (For Vanilla Sweet Chocolate.) Pennsylvania Chocolate Company. No. 22,026; Aug. 24; v. 277; p. 785.
"Bird Design." (For Cartons Containing Hairpins.) Sterling Pin Company. No. 22,137; Sept. 14; v. 278; p. 366.
"Bitrose Scotties." (For Candies.) Bitrose Company. No. 21,908; July 27; v. 276; p. 774.
"Black-Iron." (For Stove-Polishes.) Merrimac Packing Co. No. 22,126; Sept. 14; v. 278; p. 365.

Digitized by Google

Alphabetical list of labels—Continued.

"Blue Bell." (For Nut Creams.) The R. F. Mackenzie Co. No. 22,206; Oct. 12; v. 279; p. 349.
"Blue Bell Brand." (For Italian Creams.) The R. F. Mackenzie Co. No. 22,210; Oct. 12; v. 279; p. 349.
"Blue Bell Ginger Ale." (For a Ginger-Ale Beverage.) Lebanon Springs Water Co., Inc. No. 22,066; Aug. 31; v. 277; p. 977.
"Bluefield." (For Butter.) Beeks Produce Company. No. 21,699; Feb. 24; v. 271; p. 683.
"Blum's De Luxe." (For Cigars.) Morris Blum. No. 22,351; Dec. 14; v. 281; p. 409.
"Boal's Rolls." (For Fruit Rolls Containing a Laxative.) Boal's Rolls Corporation. No. 22,178; Oct. 12; v. 279; p. 349.
"Bosack's Pelinko Horke Vino." (For a Medicinal Tonic.) Bosack, J. H., Mfg. Co. No. 22,100; Sept. 14; v. 278; p. 365.
"Bowman's Nu-Like-Brand Auto Finishes Eclipse Auto Top Waterproofing." (For a Dressing.) J. A. Bowman. No. 21,808; Apr. 20; v. 273; p. 627.
"Brillo." (For Aluminum-Cleanser.) Brillo Manufacturing Company. No. 22,242; Nov. 23; p. 806.
"Bringing Up Father Candy." (For Candy.) Embee Distributing Company. No. 22,181; Oct. 12; v. 279; p. 349.
"Bringing Up Father Game." (For a Game-Board.) Embee Distributing Company. No. 22,055; Aug. 31; v. 277; p. 977.
"Bromo Aspirin." (For Bromo-Aspirin Compound.) A. B. Crowell. No. 22,250; Nov. 23; v. 280; p. 806.
"Bro-Wal." (For Bitter-Wine Tonic.) Scranton Distributing and Mfg. Co. No. 21,871; May 25; v. 274; p. 837.
"Brown's Indian Root Hair Tonic." (For a Liquid Hair-Tonic.) Anthony Brown. No. 22,043; Aug. 31; v. 277; p. 977.
"Bruehn's Rose E. Ola." (For a Laxative.) L. Bruehn. No. 21,619; Jan. 6; v. 270; p. 187.
"Buck's Vulcanite Patch." (For Tire-Patches.) A. A. Buck. No. 21,618; Jan. 6; v. 270; p. 187.
"'Buddy' and 'Dolly' Vindex Undersuits." (For Underwear.) Oppenheim, Oberndorf & Co., Inc. No. 21,632; Jan. 6; v. 270; p. 187.
"Buffalo Rubber Roofing." (For Rolls of Elaterite Roofing.) The Western Elaterite Roofing Company. No. 22,282; Nov. 23; v. 280; p. 807.
"Bully Boy Cordial Apricot Flavor." (For a Non-Alcoholic Drink.) Southern Food Products Co. No. 22,031; Aug. 24; v. 277; p. 786.
"Bungalow Roofing." (For Roofing Fabrics.) The Herlinger Paper Company. Nos. 22,322–3; Dec. 7; v. 281; p. 203.
"Burgess Uni-Cels." (For Electric Batteries.) Burgess Battery Company. No. 22,045; Aug. 31; v. 277; p. 977.
"Burgess Uniplex Battery." (For Electric Batteries.) Burgess Battery Company. No. 21,932; Aug. 3; v. 277; p. 180.
"Butter Charms." (For Fruit Tablets—Namely, Charms, Butter Flavor.) Charms Company. No. 21,849; Apr. 27; v. 273; p. 806.
"Butter Top." (For Waxed-Paper Wrappers Containing Bread.) Menasha Printing and Carton Company. No. 22,267; Nov. 23; v. 280; p. 806.
"Buttery Bitter Sweets." (For Candy.) Val Blatz Jr. Candy Co. No. 21,643; Jan. 6; v. 270; p. 187.
"C & J Brand." (For Canned Peaches.) China, Japan & South America Trading Co. Ltd. No. 21,704; Feb. 24; v. 271; p. 683.
"Café Estrela-do-Brazil." (For Cartons Containing Coffee.) Faria, Costa & Company, Incorporated. No. 22,182; Oct. 12; v. 279; p. 349.
"California Chocolates." (For California Chocolates.) L. J. Christopher Company. No. 22,248; Nov. 23; v. 280; p. 806.
"Campbell's Purity." (For Dessert Preparations—Namely, Pie-Filling.) V. V. Campbell. No. 22,317; Dec. 7; v. 281; p. 203.
"Campfire." (For Marshmallows.) The Campfire Company. No. 22,049; Aug. 31; v. 277; p. 977.
"Candies." (For Candy.) Milwaukee Paper Box Company. No. 21,794; Apr. 13; v. 273; p. 405.
"Candy Craft Candies for Kiddies." (For Candies.) The Candy Craft Shops, Inc. No. 22,046; Aug. 31; v. 277; p. 977.
"Candy Craft Pocket Candies." (For Fruit Tablets.) The Fruit Craft Shops, Inc. No. 22,047; Aug. 31; v. 277; p. 977.
"Cara-Nut-Bar." (For Candy.) The R. F. Mackenzie Co. No. 22,209; Oct. 12; v. 279; p. 349.
"Caramels." (For Caramels.) Beech-Nut Packing Company. No. 22,093; Sept. 7; v. 278; p. 162.
"Carb-Out Carbon Remover." (For Lubricating-Solvent and Carbon-Remover.) J. H. Mitchell. No. 21,889; June 29; v. 275; p. 1022.
"Canned Food—the Miracle on Your Table." (For Canned Goods.) National Canners Association. No. 21,774; Apr. 6; v. 273; p. 183.
"Caruso Cough Drops." (For Cough-Drops.) J. Caruso. No. 21,702; Feb. 24; v. 271; p. 683.
"Cervesa Clara." (For a Cereal Beverage.) Piel Bros., Inc. No. 22,193; Oct. 12; v. 279; p. 349.
"Cerveza Negra." (For a Cereal Beverage.) Piel Bros., Inc. No. 22,194; Oct. 12; v. 279; p. 349.
"Charcoal Tooth Paste." (For Tooth-Paste.) P. A. Mandabach. No. 21,793; Apr. 13; v. 273; p. 405.
"Chateau." (For Soft Drinks.) Chateau Bottling Company. No. 21,703; Feb. 24; v. 271; p. 683.
"Cherries Chocolate Covered." (For Boxes Containing Chocolate-Covered Cherries.) Milwaukee Paper Box Company. No. 22,334; Dec. 7; v. 281; p. 203.
"Cherrilade." (For a Spread for Bread, &c.) The Welch Grape Juice Company. No. 21,690; Feb. 3; v. 271; p. 154.
"Cherry-Tang." (For Cherry-Syrup.) C. A. Connor Ice Cream Company. No. 21,766; Apr. 6; v. 273; p. 183.
"Cherry Tonic." (For a System-Tonic.) The Cherry Tone Medicine Co. Inc. No. 21,993; Aug. 24; v. 277; p. 785.
"Chevonet Hair Net." (For Hair-Nets.) A. A. West. No. 21,901; June 29; v. 275; p. 1022.
"Chief Joseph." (For Fresh Fruits.) Ryan Fruit Co. No. 21,835; Apr. 20; v. 273; p. 627.
"Chocolat Supérieur." (For Chocolate.) Pennsylvania Chocolate Company. No. 21,741; Feb. 24; v. 271; p. 684.
"Chocolate Covered Cherries." (For Chocolate-Covered Cherries.) Milwaukee Paper Box Company. No. 21,949; Aug. 3; v. 277; p. 180.
"Chocolate Covered Cherries." (For Chocolate Cherries.) Milwaukee Paper Box Company. No. 22,017; Aug. 24; v. 277; p. 785.
"Chocolate Covered Cherries." (For Boxes Containing Chocolate-Covered Cherries.) Milwaukee Paper Box Company. No. 22,130; Sept. 14; v. 278; p. 365.
"Chocolate Covered Fruits in Cream." (For Candy.) Milwaukee Paper Box Company. Nos. 21,678–9; Feb. 3; v. 271; p. 153.
"Chocolate Covered Nougats." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,128; Sept. 14; v. 278; p. 365.
"Chocolate Covered Nuts." (For Chocolate Candy—namely, Chocolate-Covered Nuts.) Milwaukee Paper Box Company. No. 21,864; May 11; v. 274; p. 403.
"Chocolates General Assortment." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,337; Dec. 7; v. 281; p. 203.
"Chocolates Moulded in Cups." (For Candy.) Milwaukee Paper Box Company. No. 21,676; Feb. 3; v. 271; p. 153.
"Chocolates of Yore." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,159; Sept. 21; v. 278; p. 541.
"Chump." (For Soaps.) California Soap Company, Inc. No. 21,909; July 27; v. 276; p. 774.
"Cinnamons." (For Candies.) Beech-Nut Packing Company. No. 21,960; Aug. 10; v. 277; p. 393.
"Claretta." (For Candy—Namely, Chocolates.) Puritan Candy Co. No. 22,312; Nov. 30; v. 280; p. 1005.
"Clem's Pure Paints." (For Ready-Mixed Paints.) Clem Lumber Co. No. 21,992; Aug. 24; v. 277; p. 785.
"Clinton Handmade." (For Cigars.) Victor Levor. No. 22,067; Aug. 31; v. 277; p. 977.
"Clove Charms." (For Fruit Tablets—Namely, Charms, Clove Flavor.) Charms Company. No. 21,818; Apr. 20; v. 273; p. 627.
"Cock Brand." (For Citrus Fruits.) L. Maxcy. No. 21,673; Feb. 3; v. 271; p. 153.
"Coln." (For Coffee.) Dwinell-Wright Company. No. 21,658; Feb. 3; v. 271; p. 153.
"Coleman's Chemical Compound." (For Chemical-Compound Pipe-Opener.) A. J. Coleman. No. 22,319; Dec. 7; v. 281; p. 203.
"Coleman's Closet Cleanser." (For Chemical Compound for Cleaning Closets.) A. J. Coleman. No. 22,318; Dec. 7; v. 281; p. 203.
"Colladin." (For Liquid Court-Plaster.) S. D. Hunt. No. 21,722; Feb. 24; v. 271; p. 683.
"Columbia Cut Clothes." (For Men's Clothing.) I. A. Levin & Co. No. 22,260; Nov. 23; v. 280; p. 806.
"Conde Cordial." (For a Non-Alcoholic Fruit Beverage.) C. F. Marsh. No. 22,262; Nov. 23; v. 280; p. 806.
"Constantine Blend." (For Cigarettes.) Constantine Tobacco Corporation. No. 21,654; Feb. 3; v. 271; p. 153.
"Continental Peanut Bag." (For Paper Bags.) Continental Paper Bag Co. No. 21,646; Jan. 27; v. 270; p. 618.
"Co-Operative Evaporated Milk." (For Evaporated Milk.) Co-Operative Food Products Association. No. 21,881; June 29; v. 275; p. 1022.
"Cormond's Water." (For a Bleaching Fluid.) F. Cormond. No. 22,320; Dec. 7; v. 281; p. 203.
"Coronado." (For Canned Sardines.) International Packing Corporation. No. 22,358; Dec. 14; v. 281; p. 409.
"Cosmic." (For Cooked Vegetables—Namely, Vegeterian Beans.) Cosmic Products Corporation. No. 22,053; Aug. 31; v. 277; p. 977.
"Cotec." (For Pile-Ointment.) T. E. Connor. No. 21,911; July 27; v. 276; p. 774.

Digitized by Google

Alphabetical list of labels—Continued.

"Cot-O-Nut." (For Lard Substitutes.) International Refining Company. No. 21,607; Feb. 3; v. 271; p. 153.
"Cowan's Preferred Coffee." (For Coffee.) Earl Cowan Co. Inc. No. 21,778; Apr. 13; v. 273; p. 405.
"Cowhide." (For Overalls.) B. Laytin. No. 22,113; Sept. 14; v. 278; p. 365.
"Cream Manila Practice Paper, Louisville Public Schools." (For Pads of Drawing-Paper in the Public Schools.) Board of Education of Louisville, Kentucky. No. 22,094; Sept. 7; v. 278; p. 162.
"Cream of Cane." (For Syrup.) J. R. Cargill. No. 21,812; Apr. 20; v. 273; p. 627.
"Cream of Roses." (For Preserves.) Adams & Mitchell. No. 21,651; Feb. 3; v. 271; p. 153.
"Crenshaw's Superior." (For Butter.) Crenshaw Bros. Produce Co. Inc. No. 21,882; June 29; v. 275; p. 1022.
"Crescent." (For Malt-Products.) H. B. Fagan. No. 21,969; Aug. 17; v. 277; p. 583.
"Crimson Rambler Marshmallow." (For Syrup.) Conner & Co. No. 21,708; Feb. 24; v. 271; p. 683.
"Croker's." (For Loganberry Jam.) Croker Packing Co. No. 22,249; Nov. 23; v. 280; p. 806.
"Cuban Grown." (For Cigars.) J. R. Isaacson. No. 22,109; Sept. 14; v. 278; p. 365.
"Cup & Saucer." (For Coffee.) Dwinell-Wright Company. No. 21,912; July 27; v. 276; p. 774.
"Defender-Net." (For Hair-Nets.) A. A. West. No. 22,375; Dec. 28; v. 281; p. 788.
"De Haven Quality Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 22,268; Nov. 23; v. 280; p. 806.
"Dehydrated Soup Nocan Taste." (For Dehydrated Soups.) Nocan Soup Company. No. 22,078; Aug. 31; v. 277; p. 977.
"Delaine." (For Toilet Paper.) Wm. H. Williams Co. No. 21,924; July 27; v. 276; p. 774.
"Del Monte Brand." (For Chilli-Con-Carne with Beans.) Baker Packing Company. No. 22,221; Nov. 9; v. 280; p. 389.
"Del Monte Brand." (For Veal Loaf.) Baker Packing Company. No. 22,222; Nov. 9; v. 280; p. 389.
"Del Monte Brand." (For Roast Beef.) Baker Packing Company. No. 22,223; Nov. 9; v. 280; p. 389.
"Del Monte Brand." (For Spaghetti, Italian Style.) Baker Packing Company. No. 22,224; Nov. 9; v. 280; p. 389.
"Del Monte Brand." (For Sliced Beef.) Baker Packing Company. No. 22,225; Nov. 9; v. 280; p. 389.
"Del Monte Brand." (For Vienna Style Sausage.) Baker Packing Company. No. 22,226; Nov. 9; v. 280; p. 389.
"Del Monte Brand." (For Potted Meat Products.) Baker Packing Company. No. 22,227; Nov. 9; v. 280; p. 389.
"Del Monte Brand." (For Corned Beef.) Baker Packing Company. No. 22,228; Nov. 9; v. 280; p. 389.
"Denison's Original Famous Cancer Ointment." (For an Ointment for Cancer.) Alfred Denison & Son. No. 21,904; July 20; v. 276; p. 594.
"Dewkist." (For Strawberries.) H. A. Baker. No. 21,927; Aug. 3; v. 277; p. 180.
"Dexters Sponge Cake." (For Sponge-Cake.) E. A. Dexter. No. 21,656; Feb. 3; v. 271; p. 153.
"Diffuselite." (For Paints.) The J. G. Wilson Corporation. No. 22,037; Aug. 24; v. 277; p. 786.
"Digesto." (For a Digestive Powder.) C. H. Littick. No. 22,370; Dec. 28; v. 281; p. 788.
"Dinsmore's Ironing Tablets." (For Ironing-Tablets.) R. M. Dinsmore. No. 21,709; Feb. 24; v. 271; p. 683.
"Ditty-Dotty." (For Candy.) The Ohio Confection Company. No. 21,952; Aug. 3; v. 277; p. 180.
"Dixie Chews." (For Candy.) Newark Paraffine & Parchment Paper Co. No. 22,132; Sept. 14; v. 278; p. 365.
"Dolly Madison." (For Cigars.) John H. Witter. No. 22,234; Nov. 16; v. 280; p. 587.
"Dolores." (For Cigars.) C. B. Henschel Mfg. Co. No. 21,937; Aug. 3; v. 277; p. 180.
"Dono The Square Donut." (For Doughnuts.) Leoffler Food Products Co. Inc. No. 22,114; Sept. 14; v. 278; p. 365.
"Doria." (For Valencias.) Anaheim Orange & Lemon Assn. No. 22,235; Nov. 23; v. 280; p. 806.
"Double Strength." (For Hard Candies—Namely, Hoarhound.) A. G. Morse Co. No. 22,075; Aug. 31; v. 277; p. 977.
"Dr. Emerick's Peacherb Laxative Tablets." (For Medicine for Constipation.) M. L. Emerick, M. D. No. 22,105; Sept. 14; v. 278; p. 365.
"Dr. Emerick's Peacherb Tablets, Fruit Herb and Vegetable Extracts and Dr. Emerick's Famous Laxative Base." (For Constipation, Biliousness, Dyspepsia, and Autotoxemia.) M. L. Emerick, M. D. No. 22,104; Sept. 14; v. 278; p. 365.
"Dr. Rayner's Ointment." (For Ointment.) Mrs. Marie Pentz. No. 22,310; Nov. 30; v. 280; p. 1005.
"Drews." (For Storage Batteries.) A. E. Drew. No. 21,621; Jan. 6; v. 270; p. 187.
"Drink Mixo." (For a Health-Drink Syrup.) Emil E. Steiner. No. 22,085; Aug. 31; v. 277; p. 978.
"Drink Steino." (For a Health-Drink Syrup.) Emil E. Steiner. No. 22,086; Aug. 31; v. 277; p. 978.
"Drink Vivo." (For a Health-Drink Syrup.) Emil E. Steiner. No. 22,087; Aug. 31; v. 277; p. 978.
"Eclipse Ironing Sheet Stretchers." (For Ironing Sheet-Stretchers.) Morgan Spring Co. No. 22,338; Dec. 7; v. 281; p. 203.
"Eggconomy." (For a Cooking-Powder—Namely, Substitute for Eggs.) W. W. Scudder. No. 22,313; Nov. 30; v. 280; p. 1005.
"Elasticap." (For Splice-Insulators for Electric Conductors.) The Elasticup Company. No. 21,995; Aug. 24; v. 277; p. 785.
"Essex Poisoned Wheat." (For Poisoned Food for Rats, Mice, &c.) Louis L. Staehle. No. 22,170; Sept. 21; v. 278; p. 541.
"Ethel-Olds Antiseptic." (For an Antiseptic.) Frederick Glass. No. 22,060; Aug. 31; v. 277; p. 977.
"Eucalyptolatum." (For an Antiseptic and Healing Preparation.) W. J. Kress. No. 22,299; Nov. 30; v. 280; p. 1005.
"Euco-Mint." (For Packages Containing Tooth-Paste.) P. A. Mandabach. No. 22,156; Sept. 21; v. 278; p. 541.
"Eureka Boiled Oil." (For a Substitute for Linseed-Oil.) Brown & Swanton. No. 21,701; Feb. 24; v. 271; p. 683.
"Evaporated Washington Apples." (For Evaporated Apples.) Northwest Evaporating Company. No. 21,795; Apr. 13; v. 273; p. 405.
"Eversnap." (For Garment-Fasteners.) Rosebeck Company. No. 21,954; Aug. 3; v. 277; p. 180.
"Every Bite a Delight." (For Fried Cakes and Cookies.) Grennan Cake Corporation. No. 22,004; Aug. 24; v. 277; p. 785.
"Everywhere on Everything." (For Prints, Varnishes, Colors, and Insecticides.) The Glidden Company. No. 21,855; May 11; v. 274; p. 403.
"Exact Whip Powder." (For a Whip-Powder.) Hirsch Brothers Company, Inc. No. 21,665; Feb. 3; v. 271; p. 153.
"Excelsior Cement." (For Cement.) I. Marcy. No. 21,732; Feb. 24; v. 271; p. 683.
"Export Beverage—Extra Fine." (For a Certain Beverage.) W. B. Giller. No. 21,868; May 11; v. 274; p. 403.
"Extracto de Malta." (For a Cereal Beverage.) Piel Bros., Inc. Nos. 22,199–200; Oct. 12; v. 279; p. 349.
"Extracto de Malta Negra." (For a Cereal Beverage.) Piel Bros., Inc. No. 22,204; Oct. 12; v. 279; p. 349.
"Extrait D'Eau de Cologne Double." (For Cologne.) Mulhens' & Kropff Incorporated. No. 22,189; Oct. 12; v. 279; p. 349.
"Falls." (For Coffee.) Dwinell-Wright Company. No. 21,779; Apr. 13; v. 273; p. 405.
"Faultless Balloons." (For Toy Rubber Balloons.) The Faultless Rubber Company. Nos. 21,883–4; June 29; v. 275; p. 1022.
"Ferro China Brenni, Brenni's Bitter." (For a Tonic.) Bartolomeo A. Albini. No. 22,286; Nov. 30; v. 280; p. 1005.
"Fish-in-the-Can." (For Canned Food Products.) I. Burger, Inc. No. 22,244; Nov. 23; v. 280; p. 806.
"Fisher's W J F." (For Apples.) W. J. Fisher & Co. No. 21,822; Apr. 20; v. 273; p. 627.
"Fisk Patch." (For Patches for Inner Tubes.) Fisk Patch Company. No. 21,711; Feb. 24; v. 271; p. 683.
"Flavorite Brand Apples." (For Apples.) University Heights Farms Co. No. 22,033; Aug. 24; v. 277; p. 786.
"Florange." (For Orange-Flower Syrup.) R. D. Donoho. No. 22,291; Nov. 30; v. 280; p. 1005.
"Flor De Leon." (For Cigars.) Leon S. Bucher Cigar Co., Inc. No. 21,700; Feb. 24; v. 271; p. 683.
"Flossies." (For Candy Lozenges.) The Flossmint Company. No. 21,913; July 27; v. 276; p. 774.
"Flossies." (For Candy Lozenges.) The Flossmint Company. No. 22,057; Aug. 31; v. 277; p. 977.
"Fox Trot Carbonated Laxative." (For Carbonated Laxative.) F. M. Fox & Co. No. 21,999; Aug. 24; v. 277; p. 785.
"Franks." (For Frankforts—Namely, Sausages. Frank & Company. No. 21,905; July 20; v. 276; p. 594.
"Fruitlade." (For a Spread for Bread, &c.) The Welch Grape-Juice Company. No. 21,691; Feb. 3; v. 271; p. 154.
"Fulton." (For Shirts.) J. Kaplan. No. 22,257; Nov. 23; v. 280; p. 806.
"Garcia Silveria." (For Cigars.) The Greenmount Cigar Company. No. 22,107; Sept. 14; v. 278; p. 365.
"Garco Gaskette Roll." (For Asbestos Sheet-Packing.) General Asbestos & Rubber Company. No. 22,059; Aug. 31; v. 277; p. 977.
"Garden City Motor Oils." (For Lubricating-Oils.) Garden City Oil Co. No. 22,000; Aug. 24; v. 277; p. 785.
"Garden O' Love." (For Candy.) Clark-Servey Candy Company. No. 21,705; Feb. 24; v. 271; p. 683.
"Gastix." (For Gasolene-Purifier and Carbon-Preventive.) E. J. H. Pauley. No. 21,740; Feb. 24; v. 271; p. 684.

Digitized by Google

Alphabetical list of labels—Continued.

"'Gaviota' (Sea Gull)." (For Artificial Fertilizer.) The Pacific Guano & Fertilizer Co. No. 22,160; Sept. 21; v. 278; p. 541.
"Genco Cola." (For a Non-Alcoholic Beverage.) General Fruit & Syrup Co. No. 21,875; June 22; v. 275; p. 826.
"George's Cre-Me-Eat Complexion Cream." (For Containers for Medicated Cold-Cream.) G. A. Finkelman. No. 22,106; Sept. 14; v. 278; p. 365.
"Germa Kidney Tablets." (For Kidney Tablets.) H. W. O'Brian & Company. No. 22,079; Aug. 31; v. 277; p. 977.
"Germa Stomach and Liver Tablets." (For Stomach and Liver Tablets.) A. W. O'Brian & Company. No. 21,978; Aug. 17; v. 277; p. 583.
"Gibbs' Mantone." (For a Medicine.) J. Gibbs. No. 21,714; Feb. 24; v. 271; p. 683.
"Ginger Ale." (For Ginger-Ale.) Frank M. Fox & Co. No. 21,998; Aug. 24; v. 277; p. 785.
"Gold Crest Pure Apple Cider." (For Apple-Juice or Apple-Cider.) California Products and Importing Co., Inc. No. 22,179; Oct. 12; v. 279; p. 349.
"Gold-Kist Syrup." (For Syrup.) The L & T Company. No. 22,258; Nov. 23; v. 280; p. 806.
"Golden Shreds." (For Orange Marmalade.) Southern California Products Company. No. 21,640; Jan. 6; v. 270; p. 187.
"Golden State." (For Powdered Skim-Milk.) California Central Creameries. No. 22,101; Sept. 14; v. 278; p. 365.
"Good Will Cravats." (For Cravats.) Gelles & Weissman. No. 22,001; Aug. 24; v. 277; p. 785.
"Goodale's Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 22,302; Nov. 30; v. 280; p. 1005.
"Goodest-Ever." (For Soda-Water.) Cairo Food Products Company. No. 21,933; Aug. 3; v. 277; p. 180.
"Goodest-Ever." (For Ice-Cream.) Cairo Food Products Company. No. 21,934; Aug. 3; v. 277; p. 180.
"Goodies." (For Candy.) Milwaukee Paper Box Company. No. 21,832; Apr. 20; v. 273; p. 627.
"Graham Beauty Secret." (For a Skin-Cleanser.) P. Graham. No. 21,715; Feb. 24; v. 271; p. 683.
"Graino." (For Soaps.) Graino Soaps Corporation. No. 22,002; Aug. 24; v. 277; p. 785.
"Grape Charms." (For Fruit Tablets—Namely, Charms, Grape Flavor.) Charms Company. No. 21,817; Apr. 20; v. 273; p. 627.
"Grape-Cola." (For a Soft Drink.) C. R. Tolivar. No. 21,745; Feb. 24; v. 271; p. 684.
"Grapette." (For Beverage.) D. N. Goldberg. No. 22,149; Sept. 21; v. 278; p. 541.
"Grape-O." (For a Beverage.) Minck Bros. & Co. Inc. No. 22,073; Aug. 31; v. 277; p. 977.
"Grape-Tang." (For Grape-Syrup.) C. A. Connor Ice Cream Company. No. 21,767; Apr. 6; v. 273; p. 183.
"Grapelade." (For a Spread for Bread, Toast, and Biscuit.) The Welch Grape Juice Company. No. 21,843; Apr. 20; v. 273; p. 627.
"Great Generals." (For Cut Smoking-Tobacco and Cigars.) J. E. M. Wright. No. 22,039; Aug. 24; v. 277; p. 786.
"Grey Manilla Practice Paper, Louisville Public Schools." (For Pads of Drawing-Paper in the Public Schools.) Board of Education of Louisville, Kentucky. No. 22,095; Sept. 7; v. 278; p. 162.
"Grey Wolf." (For Oranges.) J. D. Spennetta. No. 22,365; Dec. 14; v. 281; p. 409.
"Growers Best." (For Canned Peaches.) California Growers Association. No. 22,354; Dec. 14; v. 281; p. 409.
"Gyft Chocolate from California." (For Boxes Containing Chocolates.) P. Hall. No. 22,150; Sept. 21; v. 278; p. 541.
"Hairforever." (For a Hair-Tonic.) Mangan & Co. No. 21,647; Jan. 27; v. 270; p. 618.
"Hamilton's." (For Extracts.) Hamilton Mfg. Co. No. 22,357; Dec. 14; v. 281; p. 409.
"Handy Candy Lemon Drops." (For Candy.) Beech-Nut Packing Company. No. 21,959; Aug. 10; v. 277; p. 393.
"Handy Candy Licorice." (For Licorice Tablets.) Beech-Nut Packing Company. No. 21,807; Apr. 20; v. 273; p. 627.
"Handy Candy Sweet Birches." (For Candy.) Beech-Nut Packing Company. No. 21,698; Feb. 24; v. 271; p. 683.
"Harmony Forget-Me-Not Snaps." (For Snap-Fasteners.) Federal Snap Fastener Corporation. No. 22,148; Sept. 21; v. 278; p. 541.
"Harvard Boys' Finest Underwear." (For Boys' Underwear.) I. L. Marrow. No. 21,888; June 29; v. 275; p. 1022.
"Harvard Men's Finest Underwear." (For Men's Underwear.) I. L. Marrow. No. 21,887; June 29; v. 275; p. 1022.
"Heather Lawn." (For Stationery.) White & Wyckoff Mfg. Co. No. 21,644; Jan. 6; v. 270; p. 187.
"Hector." (For Cigars.) C. S. Garman. No. 21,713; Feb. 24; v. 271; p. 683.
"Hedges-Buck Co. Brand." (For Black Pepper.) Hedges-Buck Company. No. 22,005; Aug. 24; v. 277; p. 785.
"Helox-Antiseptic Healing Powder Veterinary." (For Antiseptic Healing-Powder.) Allaire, Woodward & Co. No. 21,926; Aug. 3; v. 277; p. 180.
"Her Candied Opinion." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,157; Sept. 21; v. 278; p. 541.
"Hershey's Superior Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 22,271; Nov. 23; v. 280; p. 806.
"High Jinks." (For Candy.) Russell & Gilbert Co. No. 22,345; Dec. 7; v. 281; p. 203.
"Hoarhound Drops." (For Candies.) Beech-Nut Packing Company. No. 22,240; Nov. 23; v. 280; p. 806.
"Holco Brand Sardines." (For Sardines.) Holtrans Company. No. 21,856; May 11; v. 274; p. 403.
"Holtrans Tea." (For Tea.) Holtrans Company, Inc. No. 22,297; Nov. 30; v. 280; p. 1005.
"Home Made." (For Bread.) Saniwax Paper Co. No. 22,166; Sept. 21; v. 278; p. 541.
"Home Pride." (For Flour.) J. Rumpel. No. 22,136; Sept. 14; v. 278; p. 366
"Horehound Charms." (For Fruit Tablets—Namely, Charms, Hoarhound Flavor.) Charms Company. No. 21,846; Apr. 27; v. 273; p. 806.
"Hospital Carbolic Oil Soap." (For Carbolic-Oil Soap.) The J. T. Robertson Company. No. 22,027; Aug. 24; v. 277; p. 785.
"Hunter Malt." (For a Malt-Syrup.) Olive H. Roth. No. 22,135; Sept. 14; v. 278; p. 365.
"I. X. L." (For Macaroni Sauce.) Workman Packing Company. No. 21,754; Feb. 24; v. 271; p. 684.
"Idaho Apples." (For Fresh Apples.) Judah P. Gray. No. 21,914; July 27; v. 276; p. 774.
"Ideal Music Rolls." (For Music-Rolls.) The Rose Valley Company. No. 22,278; Nov. 23; v. 280; p. 807.
"Ideal Special Prepared Malt Products." (For Malt Products.) Ideal Yeast Company. No. 21,624; Jan. 6; v. 270; p. 187.
"If It's Young's It's Safe." (For Soap Flakes.) Chas. W. Young & Co. No. 21,756; Feb. 24; v. 271; p. 684.
"Imperial Varnishes." (For Varnishes.) A. R. Haeuser Co. No. 21,717; Feb. 24; v. 271; p. 683.
"Indian Ink." (For Ink.) The John J. Crooke Corporation. No. 22,103; Sept. 14; v. 278; p. 365.
"Indian River Brand Tomatoes." (For Canned Tomatoes.) Theo. Burton & Son. No. 21,762; Mar. 23; v. 272; p. 732.
"Indian Rubber Roofing." (For Rubber Roofing.) The Western Elaterite Roofing Company. No. 21,752; Feb. 24; v. 271; p. 684.
"Iris." (For Cotton Thread.) Boston Thread Co. No. 21,988; Aug. 24; v. 277; p. 785.
"It Hits the Target." (For Toy Guns.) G. T. Novelty Company, Inc. No. 21,738; Feb. 24; v. 271; p. 684.
"J. Handler Lacoin." (For Stains and Varnishes.) J. Handler. No. 21,784; Apr. 13; v. 273; p. 405.
"J. D. Hair Grower." (For Hair-Tonic.) The J. D. Chemical Co. No. 22,355; Dec. 14; v. 281; p. 409.
"J. L. Hopkins & Co." (For Milled Crude Drugs.) J. L. Hopkins & Co. No. 22,008; Aug. 24; v. 277; p. 785.
"Jack-O-Dandy." (For Candies — Namely, Suckers.) Weber-Schlitz Candy Company. No. 21,841; Apr. 20; v. 273; p. 627.
"Jax." (For Cereal Beverages.) Jackson Brewing Company. No. 22,152; Sept. 21; v. 278; p. 541.
"Jazz Hand Wash." (For Hand-Soap or Hand-Wash.) American Soap Company. No. 21,984; Aug. 24; v. 277; p. 785.
"Jem Kleno." (For a Cleaning and Polishing Preparation.) R. Harris & Co. No. 21,719; Feb. 24; v. 271; p. 683.
"Jetto Black Dye." (For Black Dyes.) Shine-Easy Shoe Polish Company. No. 21,798; Apr. 13; v. 273; p. 405.
"Jim Dandy Corn Candy." (For Candy or Confectionery.) J. L. Kellogg. No. 22,327; Dec. 7; v. 281; p. 203.
"Jinja-Jac." (For Ginger-Ale—Namely, Jinja-Jac.) Jackson Brewing Company. No. 22,063; Aug. 31; v. 277; p. 977.
"Joysoap." (For Soap.) Louisville Food Products Co. No. 22,071; Aug. 31; v. 277; p. 977.
"'Just' Vanilla Sweet Chocolate." (For Sweet Chocolate.) Boldemann Chocolate Co. No. 21,653; Feb. 3; v. 271; p. 153.
"K. B." (For Flour.) Bay City Milling Co. No. 21,697; Feb. 24; v. 271; p. 683.
"K. P. (Kitchen Police)." (For a Cleanser.) Anderson & Hartry. No. 21,696; Feb. 24; v. 271; p. 683.
"Kee-Ko." (For a Washing Preparation.) The W. P. Drackett and Sons Company. No. 21,936; Aug. 3; v. 277; p. 180.
"Kellogg's Drinkot." (For a Coffee-Like Beverage.) Kellogg Toasted Corn Flake Co. No. 21,669; Feb. 3; v. 271; p. 153.
"Kellogg's Krumbled Bran." (For a Food.) Kellogg Toasted Corn Flake Co.) No. 21,973; Aug. 17; v. 277; p. 583.
"Kellogg's Roasted Korn Krisp." (For Roasted Korn Krisp.) Kellogg Toasted Corn Flake Co. No. 21,787; Apr. 13; v. 273; p. 405.

Digitized by Google

"Kellogg's Shredded Krumbles." (For Shredded Krumbles.) Kellogg Toasted Corn Flake Co. No. 21,786; Apr. 13; v. 273; p. 405.
"Kemi-Pluz Liquid Welding Solution." (For a Chemical Solution for Sealing Leaks in Automobile-Radiators and Steam-Boilers.) Kemi-Pluz Manufacturing Co. No. 21,946; Aug. 3; v. 277; p. 180.
"Kenilworth." (For Canned Tomatoes.) Steele Packing Co. No. 21,641; Jan. 6; v. 270; p. 187.
"Kerchettes." (For Medicated Paper Handkerchiefs.) A. J. White, Limited. No. 22,176; Oct. 12; v. 279; p. 349.
"Keystone Brand." (For Cherries.) Keystone Fruit Products Co. No. 21,788; Apr. 13; v. 273; p. 405.
"Keystone Slip-on Garter." (For Men's Garters.) C. L. Meyer. No. 21,733; Feb. 24; v. 271; p. 683.
"Kicks." (For Candy.) Bertin & Stimson. No. 22,316; Dec. 7; v. 281; p. 203.
"Kiddie Block." (For Graham Flake.) P. L. Jacoby. No. 21,723; Feb. 24; v. 271; p. 683.
"Killian Kuality Supreme Pears." (For Pears.) W. H. Killian Co. No. 22,064; Aug. 31; v. 277; p. 977.
"Kilties." (For Candy.) The R. F. Mackenzie Co. No. 22,214; Oct. 12; v. 279; p. 350.
"King Sol." (For Candy.) The R. F. Mackenzie Co. No. 22,330; Dec. 7; v. 281; p. 203.
"Kirkor." (For Ointment.) G. Kirkorian. No. 22,298; Nov. 30; v. 280; p. 1005.
"Kistner's Spice Salt." (For Kistner's Spice-Salt.) A. N. Kistner. No. 22,328; Dec. 7; v. 281; p. 203.
"Kracker Nut." (For a Popcorn Confection.) L. E. Lundquist. No. 22,261; Nov. 23; v. 280; p. 806.
"Kuver Suit." (For Overalls.) Happ Brothers Co. No. 21,623; Jan. 6; v. 270; p. 187.
"La Bella." (For Musical-Instrument Strings Made of Gut.) E. & O. Mari. No. 22,072; Aug. 31; v. 277; p. 977.
"La Bella Fiume." (For Olive-Oil.) Courumalis & Co. No. 21,655; Feb. 3; v. 271; p. 153.
"La Belle Hair Net." (For Hair-Nets.) A. A. West. No. 22,035; Aug. 24; v. 277; p. 786.
"Labor Saver." (For Soap.) Louisville Food Products Co. No. 22,070; Aug. 31; v. 277; p. 977.
"Lady Baltimore Cake." (For Cake.) E. A. Dexter. No. 21,657; Feb. 3; v. 271; p. 153.
"La Flor de A. M. León." (For Cigars.) A. M. León & Company. No. 22,259; Nov. 23; v. 280; p. 806.
"La India." (For Lard Substitutes.) International Refining Company. No. 21,668; Feb. 3; v. 271; p. 153.
"La Roulette." (For Cigars.) V. Levor. No. 21,625; Jan. 6; v. 270; p. 187.
"Laske's Natural Leaf Clippings." (For Tobacco-Clippings.) J. Laske. No. 21,830; Apr. 20; v. 273; p. 627.
"Latapep." (For a Medicinal Tonic.) E. M. Welch. No. 21,775; Apr. 6; v. 273; p. 188.
"La Tosca Sleepers." (For Children's Sleeping-Garments.) La Tosca Knitting Co. Nos. 21,769–70; Apr. 6; v. 273; p. 183.
"Lauritsen's Home Made Butter Scotch." (For Butter-Scotch.) Graphic Label Works. No. 22,003; Aug. 24; v. 277; p. 785.
"Lawrences'." (For Canned Sardines.) The Lawrence Canning Company. No. 22,065; Aug. 31; v. 277; p. 977.
"Laxative Chocolate Bar." (For Laxative Chocolate Bars.) P. A. Mandabach. No. 21,792; Apr. 13; v. 273; p. 405.
"Laxative Citro Sal Tablets." (For a Medicine.) H. B. Knight. No. 21,725; Feb. 24; v. 271; p. 683.
"Leather Lac." (For Preparation for Refinishing Leather Articles.) The R. F. Johnston Paint Company. No. 22,009; Aug. 24; v. 277; p. 785.
"Lemon Charms." (For Fruit Tablets—Namely, Charms, Lemon Flavor.) Charms Company. No. 21,816; Apr. 20; v. 273; p. 627.
"Lemon Cleansing Cream." (For a Massage and Cleansing Cream.) A. J. Krank. No. 21,917; July 27; v. 276; p. 774.
"Lemon Vanishing Cream." (For a Skin Cream.) A. J. Krank. No. 21,918; July 27; v. 276; p. 774.
"Leontine, The Great Cleaner." (For Cleaning Fluids.) Leontine Co. No. 21,671; Feb. 3; v. 271; p. 153.
"Liberty Brand." (For Honey-Dew Melons. (Free Brothers Company. No. 22,255; Nov. 23; v. 280; p. 806.
"Liberty Cleansing Soap." (For Soap.) A. Grender. No. 21,716; Feb. 24; v. 271; p. 683.
"Liberty Coffee." (For Coffee.) Gust Chilliras & Co. No. 22,050; Aug. 31; v. 277; p. 977.
"Life Belt." (For Coffee.) Kaffee Hag Corporation. No. 22,010; Aug. 24; v. 277; p. 785.
"Lif-Lik Embalming Fluid." (For Embalming Fluid.) M. E. Conboy. No. 22,289; Nov. 30; v. 280; p. 1005.
"Liksom Delicious Bread." (For Bread.) C. D. Graves. No. 21,824; Apr. 20; v. 273; p. 627.
"Lil Joe." (For Candies.) Fox Candy Company. No. 21,938; Aug. 3; v. 277; p. 180.
"Lilly." (For a Beverage.) The Rock Island Brewing Company. No. 21,636; Jan. 6; v. 270; p. 187.
"Lime Charms." (For Fruit Tablets—Namely, Charms, Lime Flavor.) Charms Company. No. 21,814; Apr. 20; v. 273; p. 627.
"Lime Drops." (For Candies.) Beech-Nut Packing Company. No. 21,929; Aug. 3; v. 277; p. 180.
"Lime Drops." (For Candy.) Beech-Nut Packing Company. No. 21,958; Aug. 10; v. 277; p. 393.
"Lincoln Brand Macaroni." (For Macaroni.) P. Rossi & Sons. No. 22,344; Dec. 7; v. 281; p. 208.
"Lion Brand, Fresh Whey Cheese." (For Cheese.) Sanna Company, Inc. No. 22,028; Aug. 24; v. 277; p. 785.
"Lippi Blood Purifier Tonic." (For a Blood-Tonic.) A. F. Lippi. No. 21,761; Mar. 9; v. 272; p. 372.
"Lipton's Instant Cocoa." (For Cocoa.) Thomas J. Lipton, Inc. No. 22,068; Aug. 31; v. 277; p. 977.
"Lipton's Jelly Powder." (For Lemon-Jelly Powder Only.) T. J. Lipton, Inc. No. 22,220; Oct. 12; v. 279; p. 350.
"Log Cabin." (For Candy—Namely, Pecan Rolls.) Pulos Bros. No. 21,921; July 27; v. 276; p. 774.
"Lola's Dream." (For Beverages.) Flora Company, Inc. No. 22,183; Oct. 12; v. 279; p. 349.
"Lou-Au-Gene Hair Grower." (For a Hair-Grower.) Mrs. M. L. Brookins. No. 21,809; Apr. 20; v. 273; p. 627.
"Lou-Au-Gene Pressing Oil." (For a Hair-Dressing.) Mrs. M. L. Brookins. No. 21,810; Apr. 20; v. 273; p. 627.
"Lou-Au-Gene Skin Bleach." (For a Cream for Cleaning the Skin.) Mrs. M. L. Brookins. No. 21,811; Apr. 20; v. 273; p. 627.
"Luminette." (For Silk Piece Goods.) Max Straus. No. 22,088; Aug. 31; v. 277; p. 978.
"Mack's Old Kentucky Fruitta Punch." (For a Flavoring-Syrup.) F. B. McCrary. No. 21,976; Aug. 17; v. 277; p. 583.
"Madame Laviette Liquid Lace Paints for Lace Only." (For Paints for Lace.) L. E. Dawson. No. 22,321; Dec. 7; v. 281; p. 203.
"Magic Hair Curlers." (For Applied or Fastened Hair-Curlers.) A. A. West. Nos. 22,172–3; Sept. 21; v. 278; p. 541.
"Magic Marvel." (For Packages Containing Washing-Powder.) L. Mitchell & Co. No. 22,131; Sept. 14; v. 278; p. 365.
"Magnolia." (For Cigars.) Magnolia Cigar Company. No. 21,790; Apr. 13; v. 273; p. 405.
"Magnus Stomach Bitters." (For a Proprietary Medicine.) Magnus Drug Chemical Company. No. 21,857; May 11; v. 274; p. 403.
"Mahlstedt Multicolor Press." (For Printing-Presses.) Lisenby Manufacturing Company. No. 22,069; Aug. 31; v. 277; p. 977.
"Major's Cholera Medicine." (For a Treatment for Cholera.) J. Major. No. 21,628; Jan. 6; v. 270; p. 187.
"Major's Consumption Relief." (For a Preparation for the Relief of Consumption.) J. Major. No. 21,627; Jan. 6; v. 270; p. 187.
"Major's Nerve Medicine." (For a Nerve Medicine.) J. Major. No. 21,629; Jan. 6; v. 270; p. 187.
"Malt Extract." (For a Cereal Beverage.) Piel Bros., Inc. Nos. 22,202–3; Oct. 12; v. 279; p. 349.
"Malt Phosphate." (For Malt Phosphate.) P. A. Mandabach. No. 21,630; Jan. 6; v. 270; p. 187.
"Manhattan." (For Hosiery.) C. W. Taves Co. No. 22,089; Aug. 31; v. 277; p. 978.
"Man-Heil Automatic Inhaler." (For Inhalers.) Frederick Heilman Company. No. 22,007; Aug. 24; v. 277; p. 785.
"Manilo." (For a Medicine.) Manilo Chemical Co. No. 21,730; Feb. 24; v. 271; p. 683.
"Mapl-Kist." (For Confectionery.) C. B. Rhoades. No. 21,759; Mar. 2; v. 272; p. 177.
"Marathon." (For Cigarettes.) Constantine Tobacco Corporation. No. 22,052; Aug. 31; v. 277; p. 977.
"Marine Paints." (For Paints.) Ocean Paint Works, Inc. No. 22,023; Aug. 24; v. 277; p. 785.
"Marker Brand Made Pure." (For Preserved Figs.) Powel Preserving Co. No. 22,340; Dec. 7; v. 281; p. 203.
"Marsh Mallow." (For Corn-Syrup, Cane Flavor.) Pacific Coast Syrup Co. No. 21,683; Feb. 3; v. 271; p. 153.
"Martha Washington." (For Boxes of Stationery and Writing-Tablets.) White & Wyckoff Mfg. Co. No. 22,140; Sept. 14; v. 278; p. 366.
"Martin's Wonderful." (For Remedies for Bugs and Insects.) C. J. Martin. No. 21,672; Feb. 3; v. 271; p. 153.
"Marvel." (For Oranges.) Placentia Mutual Orange Association. No. 21,892; June 29; v. 275; p. 1022.
"Mason Mints." (For Mint Candy.) Mason, Au & Magenheimer Confectionery Mfg. Co. Nos. 21,862–3; May 11; v. 274; p. 403.
"Mason Mints." (For Mint Candy.) Mason, Au & Magenheimer Confectionery Mfg. Co. No. 22,185; Oct. 12; v. 279; p. 349.
"Mason's Khufu." (For Chocolate Cocoanut Cream Bars.) Mason, Au & Magenheimer Confectionery Mfg. Co. Nos. 21,859–60; May 11; v. 274; p. 403.
"Mason's Nut Malobar." (For Chocolate Marshmallow Candy.) Mason, Au & Magenheimer Confectionery Mfg. Co. No. 21,861; May 11; v. 274; p. 403.
"Matinee." (For Canned Sardines.) Neptune Sea Food Co. No. 21,682; Feb. 3; v. 271; p. 153.

Digitized by Google

"Medal." (For Coffee.) Dwinell-Wright Company. No. 21,659; Feb. 3; v. 271; p. 153.
"Meje, a Compound of fresh skimmed Milk and Cocoanut Oil." (For a Compound of Milk and Vegetable Oil.) J. P. Gehl. No. 21,970; Aug. 17; v. 277; p. 583.
"Mellow Fruit Brand." (For Canned Peaches.) Richmond Chase Company. No. 22,277; Nov. 23; v. 280; p. 807.
"Men-Tho-Eze 'Grandma Knows'." (For Ointment.) Men-Tho-Eze Corporation. No. 21,948; Aug. 3; v. 277; p. 180.
"Mentho-Malted Horehound Kisses." (For Hoarhound Kisses.) P. A. Mandabach. No. 21,791; Apr. 13; v. 273; p. 405.
"Mermaid Paints." (For Paints.) Ocean Paint Works, Inc. No. 22,024; Aug. 24; v. 277; p. 785.
"Mexican Pecan Candy." (For Mexican Pecan-Candy.) J. H. Riegler. No. 22,343; Dec. 7; v. 281; p. 203.
"Mi Candita." (For Cigars.) V. Jordan. No. 21,916; July 27; v. 276; p. 774.
"Midget Slumber Toys." (For Boxes Containing Toys—Namely, Dolls.) J. Janes Co. No. 22,185; Oct. 12; v. 279; p. 349.
"Mid-Valley Brand Maine Style Sweet Corn." (For Sweet Corn.) Middletown Packing Co. No. 21,831; Apr. 20; v. 273; p. 627.
"Milk Chocolate." (For Chocolate Candy.) Milwaukee Paper Box Company. No. 22,074; Aug. 31; v. 277; p. 977.
"Milk Chocolate Almond Creams." (For Candy—Namely, Milk-Chocolate Almond Creams.) The R. F. Mackenzie Co. No. 22,207; Oct. 12; v. 279; p. 349.
"Milk Chocolates." (For Chocolate Candy.) Milwaukee Paper Box Company. No. 21,631; Jan. 6; v. 270; p. 187.
"Milk Chocolates." (For Milk Chocolates.) Milwaukee Paper Box Company. No. 22,020; Aug. 24; v. 277; p. 785.
"Milk Chocolates." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,336; Dec. 7; v. 281; p. 203.
"Milk Maid." (For Bread.) Saniwax Paper Co. No. 22,167; Sept. 21; v. 278; p. 541.
"Milkmaid Bread." (For Bread.) Newark Paraffine & Parchment Paper Co. No. 22,021; Aug. 24; v. 277; p. 785.
"Miller." (For Men's Socks.) S. S. Miller. Nos. 22,332–3; Dec. 7; v. 281; p. 203.
"Milo Fruit Chewing Gum." (For Chewing-Gum.) A. Colker. No. 21,935; Aug. 3; v. 277; p. 180.
"Mirabella Coffee." (For Coffee.) Faria, Costa & Company, Incorporated. No. 22,253; Nov. 23; v. 280; p. 806.
"Miracle." (For Beverages.) Miracle Company. No. 21,890; June 29; v. 275; p. 1022.
"Miracle." (For Canned Peaches.) St. Joe Canning Co. No. 21,956; Aug. 3; v. 277; p. 180.
"Missoura." (For Non-Intoxicating Beverage.) Ettlinger Bros. No. 22,356; Dec. 14; v. 281; p. 409.
"Mohawk Sweaters." (For Sweaters.) Mohawk Valley Cap Factory. No. 21,773; Apr. 6; v. 273; p. 183.
"Mohawk Knit Caps." (For Knitted Caps.) Mohawk Valley Cap Factory. No. 21,772; Apr. 6; v. 273; p. 183.
"Molasses-Popcorn Bars." (For Confections.) Beech-Nut Packing Company. No. 22,367; Dec. 28; v. 281; p. 788.
"Money Back Tube Patch." (For Tire-Patches.) P. E. Lown. No. 21,728; Feb. 24; v. 271; p. 683.
"Monte Carlo Brand." (For Oranges, Grape-Fruit, and Tangerines.) Lake Reedy Packing Company. No. 21,828; Apr. 20; v. 273; p. 627.
"More Egg Mash." (For Box Containing a Food for Poultry.) Stock Yards Poultry Supply Co. No. 22,218; Oct. 12; v. 279; p. 350.
"Morgan's Cold Sweet Cream." (For Cold-Cream.) S. H. Morgan Manufacturing Company. No. 22,307; Nov. 30; v. 280; p. 1005.
"Mor-Hair." (For a Remedy for Dandruff.) Joseph Wetterer. No. 22,092; Aug. 31; v. 277; p. 978.
"Mory Ice Cream Co." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 22,264; Nov. 23; v. 280; p. 806.
"Mother Brown's Cough Syrup." (For Cough-Syrup.) K. I. Brown. No. 22,243; Nov. 23; v. 280; p. 806.
"Mother Goose." (For Bread.) Saniwax Paper Co. No. 21,743; Feb. 24; v. 271; p. 684.
"Mother's." (For Bread.) Saniwax Paper Co. No. 22,165; Sept. 21; v. 278; p. 541.
"Mrs. Shepard's Fruit Flakes." (For Flaked and Cooked Fruits—namely, Apples.) Shepard Fruit Products Company. No. 21,865; May 11; v. 274; p. 403.
"Mullan's 3 in 1 Polish." (For Furniture-Polish.) Z. Mullan. No. 21,680; Feb. 3; v. 271; p. 153.
"Murdock's Nufood." (For Concentrated Food-Powders.) A. E. Murdock. No. 22,272; Nov. 23; v. 280; p. 807.
"Mutual." (For Paints and Varnishes.) Mutual Paint Company. No. 22,076; Aug. 31; v. 277; p. 977.
"My-O-My Chocolates." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,127; Sept. 14; v. 278; p. 865.
"Nacarine." (For a Lotion for the Complexion.) The Nacarine Co. No. 21,920; July 27; v. 276; p. 774.
"Nartz's Sterling Bread." (For Wrapper for Bread-Loaves.) Louis Nartz. No. 22,077; Aug. 31; v. 277; p. 977.
"Nature's Blood and Cell-Foods." (For a Medicine.) L. Pohland. No. 21,686; Feb. 3; v. 271; p. 153.
"Nature's Reward." (For Chocolate Candy.) Rainbow Chocolate Company. No. 21,742; Feb. 24; v. 271; p. 684.
"Nekco." (For California Kippered Sardines.) Nielsen & Kittle Canning Company, Ltd. No. 22,022; Aug. 24; v. 277; p. 785.
"Nell Winget Home Frocks." (For House-Dresses.) The Winget Manufacturing Co. No. 22,315; Nov. 30; v. 280; p. 1005.
"Nelson's." (For Canned Fruit.) O. A. Nelson. No. 21,891; June 29; v. 275; p. 1022.
"Neupro." (For Ginger-Ale.) J. S. Roth. No. 21,648; Jan. 27; v. 270; p. 618.
"Neutral." (For Cotton Thread.) Boston Thread Co. No. 21,989; Aug. 24; v. 277; p. 785.
"Newhall." (For Canned Peaches.) H. M. Newhall & Co. No. 21,736; Feb. 24; v. 271; p. 683.
"Newhall." (For Canned Tomatoes with Purée.) H. M. Newhall & Co. No. 21,737; Feb. 24; v. 271; p. 684.
"Niagara Wall Paper." (For Rolls of Printed Wall-Paper.) Niagara Wall Paper Company. No. 22,275; Nov. 23; v. 280; p. 807.
"Nickel Smoke." (For Cigars.) Pasbach-Voice Litho. Co., Inc. No. 21,633; Jan. 6; v. 270; p. 187.
"Noaker Ice Cream Co." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 22,303; Nov. 30; v. 280; p. 1005.
"No-Leak-O Oilsealing." (For Piston-Rings.) No-Leak-O Piston Ring Company. No. 22,133; Sept. 14; v. 278; p. 365.
"Novelite Spreads." (For Bedspreads.) B. F. Bailey & Co. No. 21,777; Apr. 13; v. 273; p. 405.
"Noxem." (For an Insect-Spray.) The French-Dickens Co. No. 21,662; Feb. 3; v. 271; p. 153.
"Nursery Scale." (For Nursery-Scales and Boxes or Packages Containing Them.) J. Chatillon & Sons. No. 22,288; Nov. 30; v. 280; p. 1005.
"Nut-All." (For Oleomargarin.) The Baltimore Butterine Co. No. 21,906; July 27; v. 276; p. 774.
"Nut Malobar." (For Chocolate Marshmallow Candy.) Mason, Au & Magenheimer Confectionery Mfg. Co. No. 22,186; Oct. 12; v. 279; p. 349.
"Nux-Iron-Pep." (For a Medicine.) P. S. Frick. No. 21,663; Feb. 3; v. 271; p. 153.
"O. B. C. Compound." (For a Foot Antiseptic Compound.) M. H. Boyle. No. 21,965; Aug. 17; v. 277; p. 583.
"O M P." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 22,263; Nov. 23; v. 280; p. 806.
"Odoriac Foot-Ease Powder Co." (For a Foot-Powder.) S. Ceitlin. No. 21,813; Apr. 20; v. 273; p. 627.
"Old Dutch." (For Non-Intoxicating Cereal Beverage.) The Krantz Products Company. No. 21,789; Apr. 13; v. 273; p. 405.
"Old Hickory." (For Candy—Namely, Nougat.) The R. F. Mackenzie Co. No. 22,212; Oct. 12; v. 279; p. 349.
"Old Style Chocolate Creams." (For Boxes Containing Chocolate Creams.) Milwaukee Paper Box Company. No. 22,129; Sept. 14; v. 278; p. 365.
"Old Style Lady-Jefferson Candies Home Made." (For Candies.) Lady Jefferson Candy Company. No. 21,974; Aug. 17; v. 277; p. 583.
"Old Virginia." (For Fruit Cake.) The L. Bromm Baking Co. No. 22,353 Dec. 14; v. 281; p. 409.
"Olfashun." (For Gasolene.) The Lubric Oil Company. No. 21,729; Feb. 24; v. 271; p. 683.
"100%." (For Oranges.) Ryan Fruit Co. No. 21,836; Apr. 20; v. 273; p. 627.
"Orange Charms." (For Fruit Tablets—Namely, Charms, Orange Flavor.) Charms Company. No. 21,820; Apr. 20; v. 273; p. 627.
"Orange-Cola." (For Orange-Cola Beverage.) J. L. Shipp. No. 21,872; May 25; v. 274; p. 837.
"Orange Knit Hosiery." (For Hosiery.) Orange Hosiery Mills, Inc. No. 22,309; Nov. 30; v. 280; p. 1005.
"Orange-Tang." (For Orange-Syrup.) C. A. Connor Ice Cream Co. No. 21,768; Apr. 6; v. 273; p. 183.
"Orcico." (For Cigars.) The Orrison Cigar Co. No. 22,025; Aug. 24; v. 277; p. 785.
"Oriental." (For Shampoo.) L. H. Lee. No. 22,155; Sept. 21; v. 278; p. 541.
"Our-Home-Made." (For Malt-Syrup.) C. T. Zirkle. No. 21,925; July 27; v. 276; p. 774.
"Our Pride." (For Apples.) Sgobel and Day. No. 21,955; Aug. 3; v. 277; p. 180.
"Over the Top." (For a Game.) E. B. Sode Paper Box Company. No. 21,923; July 27; v. 276; p. 774.
"Overland." (For Apples.) Weiser Air Storage Co. No. 21,804; Apr. 13; v. 273; p. 405.
"Oxydene." (For a Disinfectant, Sterilizer, Germicide and Deodorant.) Lacteal Analytical Laboratories, Inc. No. 22,011; Aug. 24; v. 277; p. 785.

Digitized by Google

Alphabetical list of labels—Continued.

"Packard Brand, Egyptian Style." (For Butter-Cream Chocolates.) R. A. Sanburg. No. 21,922; July 27; v. 276; p. 774.
"Pagliacci." (For Macaroni.) Milwaukee Macaroni Co. No. 22,016; Aug. 24; v. 277; p. 785.
"Painting for Light." (For Paints.) The J. G. Wilson Corporation. No. 22,038; Aug. 24; v. 277; p. 786.
"Palm Beach Hair Grower." (For a Preparation for the Hair.) S. B. Catlin. No. 21,763; Mar. 23; v. 272; p. 732.
"Palmetto." (For Cigars.) Palmetto Cigar Co. No. 22,364; Dec. 14; v. 281; p. 409.
"Palzo for Mechanics & Garages." (For a Cleaner.) Runyan Chemical Products Co. No. 21,688; Feb. 3; v. 271; p. 153.
"Palzo The Great American Cleaner." (For a Cleaner.) Runyan Chemical Products Co. No. 21,637; Jan. 6; v. 270; p. 187.
"Panama Soap." (For Soap.) R. W. Baker. No. 21,805; Apr. 20; v. 273; p. 627.
"Para Tire Paint." (Preparation for Dressing or Refinishing Second-Hand Tires.) Para Chemical Co. No. 22,191; Oct. 12; v. 279; p. 349.
"Pargo Brand Sweet Corn." (For Cans Containing Sweet Corn.) C. A. Windholz. No. 21,873; June 6; v. 275; p. 418.
"Pasco." (For Greases.) Pan-American Supply Company, Inc. No. 21,962; Aug. 10; v. 277; p. 393.
"Pca Nut Bar." (For Candy.) Beech-Nut Packing Company. No. 21,652; Feb. 3; v. 271; p. 153.
"Peach Charms." (For Fruit Tablets—Namely, Charms, Peach Flavor.) Charms Company. No. 21,819; Apr. 20; v. 273; p. 627.
"Peachlade." (For Bread, Toast, and Muffins.) The Welch Grape Juice Company. No. 21,842; Apr. 20; v. 273; p. 627.
"Peanut Bar." (For Candies; namely "Peanut Bars.") Beech-Nut Packing Company. No. 21,986; Aug. 24; v. 277; p. 785.
"Peanut Dips." (For Peanut Dips.) The R. F. Mackenzie Co. No. 22,215; Oct. 12; v. 279; p. 350.
"Peerless Laundry Tablets." (For Laundry Tablets.) The M. & S. Chemical Co. No. 21,858; May 11; v. 274; p. 403.
"Peggy Peach Doll Outfit." (For A Material For Doll-Dresses.) M. G. Baumann. No. 21,845; Apr. 27; v. 273; p. 806.
"Perma-Tite Cobblers Repair Kit." (For a Repair Kit.) Permatite Manufacturing Company, Inc. No. 22,311; Nov. 30; v. 280; p. 1005.
"Perma-Tite Household Patch." (For Packages Containing a Household Patch for Patching Rubber Goods.) Permatite Manufacturing Company, Inc. No. 22,162; Sept. 21; v. 278; p. 541.
"Perma-Tite Valve Grinding Compound." (For Cans Containing a Valve-Grinding Compound. Permatite Manufacturing Company, Inc. No. 22,161; Sept. 21; v. 278; p. 541.
"Pettijohns Crispy Chips." (For Potato Chips.) Pettijohn Pure Products Co. No. 22,339; Dec. 7; v. 281; p. 203.
"Phillips Brand." (For Canned Salmon.) M. Phillips & Co. No. 21,634; Jan. 6; v. 270; p. 187.
"Piel Bros. Dark." (For a Cereal Beverage.) Piel Bros., Inc. No. 22,195; Oct. 12; v. 279; p. 349.
"Piel Bros. Light." (For a Cereal Beverage.) Piel Bros., Inc. No. 22,196; Oct. 12; v. 279; p. 349.
"Piel's Apple Ale." (For Apple-Ale.) Piel Bros., Inc. No. 22,201; Oct. 12; v. 279; p. 349.
"Piel's Birch Beer." (For Birch-Beer.) Piel Bros., Inc. No. 22,197; Oct. 12; v. 279; p. 349.
"Piel's Extra Export." (For a Cereal Beverage.) Piel Bros., Inc. No. 22,192; Oct. 12; v. 279; p. 349.
"Piel's Ginger Ale." (For Ginger-Ale.) Piel Bros., Inc. No. 22,198; Oct. 12; v. 279; p. 349.
"Pillsbury's Wheat Cereal." (For Wheat Cereal.) Pillsbury Flour Mills Company. No. 21,764; Mar. 23; v. 272; p. 732.
"Pimento-Luncheon." (For a Sausage Product—Namely, Pimento-Luncheon.) Frank & Company. No. 21,760; Mar. 9; v. 272; p. 372.
"Pinebrosia." (For Pineapple Jelly.) Pearl City Fruit Co. Ltd. No. 21,684; Feb. 3; v. 271; p. 153.
"Pinebrosia." (For Pineapple-Syrup for Making Beverages.) Pearl City Fruit Co. Ltd. No. 21,685; Feb. 3; v. 271; p. 153.
"Pioneer Creamery Co." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 22,306; Nov. 30; v. 280; p. 1005.
"Piper." (For Candy.) The R. F. Mackenzie Co. No. 22,211; Oct. 12; v. 279; p. 349.
"Plant Life." (For a Fertilizer Compound.) R. H. Hoover. No. 22,108; Sept. 14; v. 278; p. 365.
"Player Action Par Excellence." (For Actions for Player-Pianos.) R. S. Howard Company. No. 22,151; Sept. 21; v. 278; p. 541.
"Please-All." (For Hair-Nets.) A. A. West. No. 22,372; Dec. 28; v. 281; p. 788.
"Plumlade." (For a Spread.) The Welch Grape Juice Company. No. 21,751; Feb. 24; v. 271; p. 684.
"Pompeian Sardines." (For Sardines.) Musher & Company, Incorporated. No. 21,784; Feb. 24; v. 271; p. 683.
"Pop's Peerless Polish." (For a Polish.) E. L. Hess. No. 22,006; Aug. 24; v. 277; p. 785.
"Price Tailored Headwear." (For Headwear.) N. Price, Son & Co. No. 21,635; Jan. 6; v. 270; p. 187.
"Price's No Ice." (For Preservative Compound for Fish and Game.) Price Compound Company. No. 22,164; Sept. 21; v. 278; p. 541.
"Princess Mackerel." (For Canned, Cooked, and Seasoned Mackerel.) P. Barna. No. 21,928; Aug. 3; v. 277; p. 180.
"Prize Dominoes Pop Corn Confection." (For a Pop-Corn Confection.) The Baxter Candy Company. No. 21,985; Aug. 24; v. 277; p. 785.
"Prize Medal." (For Toilet-Paper.) The A. M. Eaton Paper Co. No. 22,238; Nov. 23; v. 280; p. 806.
"Prohibition Ginger." (For a Preparation or Compound for Cramps, Chills, &c. B. F. Bigwood. No. 22,144; Sept. 21; v. 278; p. 541.
"Pronto." (For Fire-Extinguishing Compound.) The Allen Corporation. No. 21,983; Aug. 24; v. 277; p. 785.
"Pronto." (For Glass Containers Containing a Fire-Extinguishing Fluid.) The Allen Corporation. No. 22,141; Sept. 21; v. 278; p. 541.
"Puritan Malt Extract." (For Cans Containing Malt Extract.) J. E. Magnus. No. 22,125; Sept. 14; v. 278; p. 365.
"Purple Seal Playthings." (For Educational Playthings—Namely, Picture-Builders.) C. F. Lorenzen & Co. No. 22,153; Sept. 21; v. 278; p. 541.
"Purple Seal Playthings." (For Phantom Blocks 71.) C. F. Lorenzen & Co. No. 22,154; Sept. 21; v. 278; p. 541.
"Purple Seal Playthings Design Builder No. 11." (For Educational Playthings—Namely, Design-Builders.) Chas. F. Lorenzen & Co. No. 22,121; Sept. 14; v. 278; p. 365.
"Purple Seal Playthings Design Builder No. 21." (For Educational Playthings—Namely, Design-Builders.) Chas. F. Lorenzen & Co. No. 22,122; Sept. 14; v. 278; p. 365.
"Purple Seal Playthings Design Builder No. 22." (For Educational Playthings—Namely, Design-Builders.) Chas. F. Lorenzen & Co. No. 22,120; Sept. 14; v. 278; p. 365.
"Purple Seal Playthings Design Builder No. 31." (For Educational Playthings—Namely, Design-Builders.) Chas. F. Lorenzen & Co. No. 22,119; Sept. 14; v. 278; p. 365.
"Purple Seal Playthings Design Builder No. 41." (For Educational Playthings—Namely, Design-Builder.) Chas. F. Lorenzen & Co. No. 22,118; Sept. 14; v. 278; p. 365.
"Purple Seal Playthings Design Builder No. 51." (For Educational Playthings—Namely, Design-Builders.) Chas. F. Lorenzen & Co. No. 22,124; Sept. 14; v. 278; p. 365.
"Purple Seal Playthings Design Builder No. 61." (For Educational Playthings—Namely, Design-Builders.) Chas. F. Lorenzen & Co. No. 22,123; Sept. 14; v. 278; p. 365.
"Purple Seal Playthings Picture Builder No. 2." (For Educational Playthings—Namely, Picture-Builders.) Chas. F. Lorenzen & Co. No. 22,116; Sept. 14; v. 278; p. 365.
"Purple Seal Playthings Picture Builders No. 3." (For Educational Playthings—Namely, Picture-Builders.) Chas. F. Lorenzen & Co. No. 22,117; Sept. 14; v. 278; p. 365.
"Put-Over-All." (For Overalls.) The Wigwam Co. Inc. No. 22,036; Aug. 24; v. 277; p. 786.
"Queen Anne Soap Powder." (For Soap Powder.) Lautz Bros. & Co. No. 22,111; Sept. 14; v. 278; p. 365.
"Queen Anne Scourer." (For a Scouring Preparation.) Lautz Bros. & Co. No. 22112; Sept. 14; v. 278; p. 365.
"Queen of Talcums." (For Talcum Powders.) Bo-Kay Perfume Company. No. 21,930; Aug. 3; v. 277; p. 180.
"Queen White Naphtha Soap." (For Soap.) Lautz Bros. & Co. No. 21,670; Feb. 3; v. 271; p. 153.
"Quick-Set." (For Anti-Offset, Ink Softener and Drier.) R. Link. No. 22,301; Nov. 30; v. 280; p. 1005.
"Quick Whip." (For an Egg Product.) The International Company. No. 21,785; Apr. 13; v. 273; p. 405.
"Quinby's." (For Chocolates.) California Chocolate Shops Co. No. 21,620; Jan. 6; v. 270; p. 187.
"Quinoids Eau de Quinine." (For a Hair-Tonic.) R. Julian. No. 21,724; Feb. 24; v. 271; p. 683.
"R. F. Worden & Sons." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 22,266; Nov. 23; v. 280; p. 806.
"R. F. Worden & Sons." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 22,305; Nov. 30; v. 280; p. 1005.
"Radish." (For Radish-Seeds.) Alfred J. Brown Seed Company. No. 21,961; Aug. 10; v. 277; p. 393.
"Rainbow Georgia Cane." (For Syrup.) J. Ralston Cargill. No. 21,880; June 29; v. 275; p. 1022.
"Ralla." (For Olive-Oil.) Ravazula Bros. No. 22,342; Dec. 7; v. 281; p. 203.
"Raspberry Charms." (For Fruit Tablets—Namely, Charms, Raspberry Flavor.) Charms Company. No. 21,848; Apr. 27; v. 273; p. 806.

Digitized by Google

"Rayn-Sno." (For a Chemically-Treated Fabric for Cleaning Windshields.) F. & F. Manufacturing Co. No. 22,056; Aug. 31; v. 277; p. 977.
"Red Bird—The Kentucky Cardinal." (For Seeds.) Lewis Implement and Seed Company. No. 21,727; Feb. 24; v. 271; p. 683.
"Red Goose." (For a Beverage.) Emmerling Products Company. No. 21,622; Jan. 6; v. 270; p. 187.
"Red Pepper Ointment." (For an Ointment.) Laval Chemical Co. No. 21,726; Feb. 24; v. 271; p. 683.
"Red Seal." (For Malt Syrup.) Western Malt Products Co. No. 21,838; Apr. 20; v. 273; p. 627.
"Red Seal." (For a Beverage.) Gottlieb-Baumschmidt Straus Brewing Company. No. 22,256; Nov. 23; v. 280; p. 806.
"Red Seal." (For a Beverage.) The Gottlieb Baurnschmidt Straus Brewing Company. No. 22,296; Nov. 30; v. 280; p. 1005.
"Red Top." (For Evaporated Milk.) T. C. Leedom. No. 22,012; Aug. 24; v. 277; p. 785.
"Red-White and Blue Brand." (For Vanilla Extract.) Wolf & Bird. No. 21,694; Feb. 3; v. 271; p. 154.
"Reel." (For Chocolate Cream Drops.) Buhr, Pfaff & Co. No. 22,044; Aug. 31; v. 277; p. 977.
"Refinite Rival of the Clouds." (For Water-Softening Material.) The Refinite Company. No. 22,080; Aug. 31; v. 277; p. 977.
"Regal." (For Thousand Island Salad-Dressing.) Ben T. Hosking & Brother. No. 22,324; Dec. 7; v. 281; p. 203.
"Reid's Ice Cream. It's the best." (For Ice-Cream.) Reid Ice Cream Company. No. 22,174; Oct. 5; v. 279; p. 175.
"Remar Bread." (For Bread.) Remar Company. No. 22,081; Aug. 31; v. 277; p. 977.
"Retona." (For Pharmaceutical Preparations—Namely, a Tonic.) Retona Products Company. No. 22,230; Nov. 9; v. 280; p. 389.
"Richmond." (For Evaporated Milk, Unsweetened.) Utah Condensed Milk Co. No. 21,897; June 29; v. 275; p. 1022.
"Ridgeway Brand." (For Brick-Cheese.) Ridgeway Cheese Company. No. 21,687; Feb. 3; v. 271; p. 153.
"Rieck-McJunkin Sweet Butter." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 22,265; Nov. 23; v. 280; p. 806
"Rite Fit Trousers." (For Men's Trousers.) L. Zucker & E. Weinshel. No. 22,040; Aug. 24; v. 277; p. 786.
"Riverside Virginia." (For Cigarettes.) Constantine Tobacco Corporation. No. 22,051; Aug. 31; v. 277; p. 977.
"Roberts Turkey Brand Corned Meats." (For Cooked Corned Meats.) G. H. Roberts. No. 21,834; Apr. 20; v. 273; p. 627.
"Rockbell Brand." (For Vegetables.) Free Brothers Company. No. 22,368; Dec. 28; v. 281; p. 788.
"Romar." (For Coffee.) Coffee Products Company. No. 21,994; Aug. 24; v. 277; p. 785.
"Ronsonora." (For Sound-Producing Devices.) L. V. Aronson. No. 22,237; Nov. 23; v. 280; p. 806.
"Rosa-Belle." (For Silks.) Lindeke, Warner & Sons, Incorporated. No. 21,919; July 27; v. 276; p. 774.
"Rose Design." (For Cartons Containing Hairpins.) Sterling Pin Company. No. 22,280; Nov. 23; v. 280; p. 807.
"Roxana Belle Non-Alcoholic Imitation Scuppernong Wine." (For Roxana Belle Imitation Scuppernong-Wine.) Southern Food Products Co. No. 21,896; June 29; v. 275; p. 1022.
"Roxana Ginger Cordial." (For Ginger-Cordial.) Southern Food Products Co. No. 22,083; Aug. 31; v. 277; p. 978.
"Royal Blue." (For Ointment.) C. E. Coe Coffee Co. No. 21,707; Feb. 24; v. 271; p. 683.
"Royal Lemon." (For a Cleaner.) Royal Lemon Products Co. No. 21,894; June 29; v. 275; p. 1022.
"S C Ready Sauce." (For a Gravy.) Santo Caramella. No. 21,963; Aug. 10; v. 277; p. 393.
"Sal Aid." (For Capsules for a Sour Stomach.) A. C. Dinsmore. No. 22,180; Oct. 12; v. 279; p. 349.
"Salmotinto." (For Cantaloup-Seed.) H. Van Buskirk Seed Co. No. 22,145; Sept. 21; v. 278; p. 541.
"Sangamo." (For Malt Extract.) Decatur Brewing Co. No. 22,252; Nov. 23; v. 280; p. 806.
"Savory." (For Canned Tomatoes.) C. A. Loockerman. No. 21,886; June 29; v. 275; p. 1022.
"School House." (For Coffee.) Dwinell-Wright Company. No. 21,781; Apr. 13; v. 273; p. 405.
"Schrader Universal Dust Cap." (For Dust-Caps for Tire-Valves.) A. Schrader's Sons, Incorporated. No. 22,236; Nov. 23; v. 280; p. 806.
"Sciroppo Tamarindo." (For Non-Intoxicating Beverages.) The Italian Distilling Co. No. 21,915; July 27; v. 276; p. 774.
"Scotch Lassie." (For Candy.) The R. F. Mackenzie Co. No. 22,206; Oct. 12; v. 279; p. 349.
"Seal-Fast." (For Repair Patches for Automobile Tubes.) Seal-Fast Mfg. Co. No. 22,029; Aug. 24; v. 277; p. 786.
"Seal of the Sanitary Inspection Service." (For Canned Foods.) National Canners Association. No. 22,273; Nov. 23; v. 280; p. 807.
"Seaside." (For Canned Sardines.) Standard Export-Import Co. Ltd. No. 21,649; Jan. 27; v. 270; p. 618.
"Sem-③-Lah." (For Flour for Making Macaroni.) The F. R. Prina Corp'n. No. 22,341; Dec. 7; v. 281; p. 203.
"Senirap." (For Candy.) G. Zarparines. No. 21,758; Feb. 24; v. 271; p. 684.
"Shaw's." (For Strawberry Jam.) The Shaw Family, Inc. No. 22,168; Sept. 21; v. 278; p. 541.
"Shelley's Chocolates." (For Candy.) Milwaukee Paper Box Company. No. 21,677; Feb. 3; v. 271; p. 153.
"Shelley's Chocolates." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,158; Sept. 21; v. 278; p. 541.
"Shine-Easy Shoe Polish." (For Shoe-Polish.) Shine-Easy Shoe Polish Company. No. 21,799; Apr. 13; v. 273; p. 405.
"Shipmate." (For Canned Strawberries.) St. Joe Canning Co. No. 21,638; Jan. 6; v. 270; p. 187.
"Shrine." (For Cigars.) J. R. Isaacson. No. 22,184; Oct. 12; v. 279; p. 349.
"Silver Star." (For Oleomargarin.) The Baltimore Butterine Co. No. 21,907; July 27; v. 276; p. 774.
"Singer Special." (For Snap-Fasteners.) Consolidated American Fastener Co's. Inc. No 22,231; Nov. 16; v. 280; p. 587
"69." (For a Medicine.) B. V. Lares. No. 21,829; Apr. 20; v. 273; p. 627.
"Slip On Transmission Lining for Fords." (For Transmission-Lining Sets.) L. & L. Automobile Accessories Corporation. No. 22,329; Dec. 7; v. 281; p. 203.
"Slipova." (For Hair-Nets.) A. A. West. No. 22,374; Dec. 28; v. 281; p. 788.
"Smith's Hand-Made Candy." (For Candy.) E. A. Smith. No. 21,839; Apr. 20; v. 273; p. 627.
"Smith's Hand-Made Candy." (For Candy.) E. A. Smith. No. 22,030; Aug. 24; v. 277; p. 786.
"Snow Crystals." (For Instantaneous Water-Softener.) California Soda Products Company. No. 22,146; Sept. 21; v. 278; p. 541.
"Snow Drop." (For Marshmallows.) T. Gottmann & Sons. No. 22,369; Dec. 28; v. 281; p. 788.
"Soap Baby." (For Soap.) The Pennsylvania Soap Company. No. 21,869; May 18; v. 274; p. 612.
"So-E-Z." (For Snap-Fasteners.) Consolidated American Fastener Co., Inc. No. 22,229; Nov. 9; v. 280; p. 389.
"So-E-Z." (For Dress-Fasteners.) Consolidated American Fastener Co's. Inc. No. 22,232; Nov. 16; v. 280; p. 587.
"Some!!!" (For Cakes.) H. V. Walters. No. 22,139; Sept. 14; v. 278; p. 366.
"Sparks Flour." (For Self-Rising Flour.) Sparks Milling Company. No. 22,084; Aug. 31; v. 277; p. 978.
"Special Notice By O. L. Raubs, the Originator of Liquid Instant Coffee." (For Liquid Instant Coffee.) O. L. Raubs. No. 21,765; Mar. 23; v. 272; p. 732.
"Spicefield." (For Cotton Thread.) Boston Thread Co. No. 21,987; Aug. 24; v. 277; p. 785.
"Standex." (For Cigarettes.) Standard Export Cigarette Corporation. No. 21,689; Feb. 3; v. 271; p. 154.
"Star Building Blocks." (For Building-Blocks.) American Novelty Works. No. 21,964; Aug. 17; v. 277; p. 583.
"Star & Crescent." (For Coffee.) Dwinell-Wright Company. No. 21,780; Apr. 13; v. 273; p. 405.
"State Seal Brand." (For Fresh Apples.) Pacific Fruit & Produce Company. No. 21,851; Apr. 27; v. 273; p. 806.
"Steiner Hydrokit." (For Hydrometer Apparatus.) Steiner Manufacturing Company. No. 22,346; Dec. 7; v. 281; p. 203.
"Stove Lustre." (For Stove and Wood Polish.) L. Nekritz. No. 21,681; Feb. 3; v. 271; p. 153.
"Sub-Treatment for Goiter and Tumors." (For a Salve for the Treatment of Goiter and Tumors.) L. A. Hibshman. No. 21,971; Aug. 17; v. 277; p. 583.
"Succuline." (For General Tonic for Poultry.) A. W. Chappell. No. 22,147; Sept. 21; v. 278; p. 541.
"Sugarloaf." (For Candy.) Schuler Chocolate Factory. No. 21,895; June 29; v. 275; p. 1022.
"Sunflower." (For Valencias.) Mutual Orange Distributors. No. 21,735; Feb. 24; v. 271; p. 683.
"Sunko." (For Laundry-Starch.) T. Acosta. No. 22,175; Oct. 12; v. 279; p. 349.
"Super-Shine the Peer of All Automobile and Furniture Polish." (For Automobile and Furniture Polish.) Super-Shine Polishing Company. No. 22,281; Nov. 23; v. 280; p. 807.
"Superyarn." (For Yarn.) Yarn Clearing House. No. 21,833; Apr. 20; v. 273; p. 627.
"Supreme." (For Oranges, Grape-Fruit, and Tangerines.) Lake Reedy Packing Company. No. 21,827; Apr. 20; v. 273; p. 627.
"Supreme Quality Creamery Butter." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 22,331; Dec. 7; v. 281; p. 203.
"Surety." (For Canned Sardines.) American-Mexican Packing Company. No. 22,041; Aug. 31; v. 277; p. 977.
"Surety." (For Canned Tuna Fish.) American-Mexican Packing Company. No. 22,287; Nov. 30; v. 280; p. 1005.

Digitized by Google

Alphabetical list of labels—Continued.

"Swansea English Smoking Mixture." (For Smoking-Tobacco.) Lovell-Buffington Tobacco Company. No. 22,360; Dec. 14; v. 281; p. 409.
"Sweet Corn." (For Seed-Corn.) A. J. Brown Seed Company. No. 21,931; Aug. 3; v. 277; p. 180.
"Sweet Hearts Quality." (For Plastic Skin-Lotions.) L. McNamara. No. 21,077; Aug. 17; v. 277; p. 583.
"Sweet-Odor-Home." (For Liquid Deodorant.) Sweet-Odor-Home Company. No. 22,171; Sept. 21; v. 278; p. 541.
"Swiss-Alpine Style Sweet Milk Chocolate." (For Sweet Chocolate.) York Chocolate Company. No. 21,867; May 11; v. 274; p. 403.
"Sylpho-Nathol." (For a Disinfectant.) The Sylpho-Napthol Company. No. 22,371; Dec. 28; v. 281; p. 788.
"Syrup Mentho-Squillo." (For a Cough Remedy.) Mansfield Drug Co. No. 21,731; Feb. 24; v. 271; p. 683.
"Systona Laxative Constructive Digestive Tonic." (For Bottles Containing the Medicine.) Systona Remedy Co. No. 22,219; Oct. 12; v. 279; p. 350.
"Systoxem." (For Pharmaceutical Preparations in the Form of Tablets.) H. P. Clearwater. No. 22,245; Nov. 23; v. 280; p. 806.
"Taffy on the Broomstick." (For Taffy.) The Candy Craft Shops, Inc. No. 22,048; Aug. 31; v. 277; p. 977.
"Takoma Pear, You'll Find They Wear." (For Misses' Hosiery.) R. J. Fisher. No. 21,710; Feb. 24; v. 271; p. 683.
"Tam O'Shanter." (For Candy.) The R. F. Mackenzie Co. No. 22,208; Oct. 12; v. 279; p. 349.
"Tandem Team." (For Cigars.) Walter M. Fox. No. 22,058; Aug. 31; v. 277; p. 977.
"Temphonized." (For Music-Rolls.) The Rose Valley Company. No. 22,279; Nov. 23; v. 280; p. 807.
"Tesoro Rancho Fancy." (For Citrus Fruits.) A. S. Bradford. No. 21,967; Aug. 17; v. 277; p. 583.
"Tesoro Rancho Red Label." (For Citrus Fruits.) A. S. Bradford. No. 21,966; Aug. 17; v. 277; p. 583.
"The Ace." (For Caps, Sweaters, and Fancy Knit Goods.) The Lion Knitting Mills Co. No. 22,013; Aug. 24; v. 277; p. 785.
"The Bal Masque." (For Chocolate Candy.) Milwaukee Paper Box Company. No. 22,019; Aug. 24; v. 277; p. 785.
"The Butter that Betters the Bread." (For Butter.) J. Poehlman & Sons. No. 21,893; June 29; v. 275; p. 1022.
"The Caswell Blend." (For Coffee.) G. W. Caswell Co. No. 21,991; Aug. 24; v. 277; p. 785.
"The Debutante Hair Net." (For Hair-Nets.) A. A. West. No. 22,373; Dec. 28; v. 281; p. 788.
"The Drink that kept Milwaukee Famous." (For Fruit Nectar.) Ex-Zact Food Products Co. No. 21,782; Apr. 13; v. 273; p. 405.
"The Famous Brew." (For Coffee.) McCord-Brady Company. No. 21,947; Aug. 3; v. 277; p. 180.
"The Famous Shenandoah Valley Brand." (For Pork Sausage.) H. L. Bushong. No. 21,874; June 22; v. 275; p. 826.
"The Finishing Touch." (For Unicum Hair-Nets.) T. H. Gary Co. No. 21,823; Apr. 20; v. 273; p. 627.
"The Fly Catcher U-Hang-Up." (For Flycatchers of Paper-Ribbon Type.) Graef & Russell. No. 21,783; Apr. 13; v. 273; p. 405.
"The Follow Up System." (For Medicinal Capsules.) J. H. Fribley. No. 21,712; Feb. 24; v. 271; p. 683.
"The H & A Best Istle Clothes Line." (For Istle Clothesline.) The Hooven and Allison Company. No. 21,942; Aug. 3; v. 277; p. 180.
"The H & A Best Jute Clothes Line." (For Jute Clothesline.) The Hooven and Allison Company. No. 21,939; Aug. 3; v. 277; p. 180.
"The H & A Best Manila Clothes Line." (For Manila Clothesline.) The Hooven and Allison Company. No. 21,944; Aug. 3; v. 277; p. 180.
"The H & A Best Mauritius Clothes Line." (For Mauritius Clothesline.) The Hooven and Allison Company. No. 21,943; Aug. 3; v. 277; p. 180.
"The H & A Best New Zealand Hemp Clothes Line." (For New Zealand Hemp Clothesline.) The Hooven and Allison Company. No. 21,941; Aug. 3; v. 277; p. 180.
"The H & A Best Sisal Clothes Line. (For Sisal Clothesline.) The Hooven and Allison Company. No. 21,940; Aug. 3; v. 277; p. 180.
"The Jewel Hair Grower." (For Hair-Tonic or Hair-Grower.) A. L. Williamson. No. 22,283; Nov. 23; v. 280; p. 807.
"The Mascot." (For Scalp-Ointment.) L. J. Larivee. No. 219,975; Aug. 17; v. 277; p. 583.
"The National Self Vulcanizing Patch." (For Rubber Patches for Repairs of Rubber Tubes.) R. D. Leas. No. 22,300; Nov. 30; v. 280; p. 1005.
"The Original Apollo." (For Cigars.) Peter Kordick Company. No. 22,110; Sept. 14; v. 278; p. 365.
"The Personal Writing Machine." (For Typewriting-machines.) Corona Typewriter Company, Inc. No. 22,102; Sept. 14; v. 278; p. 365.
"The Pontiac." (For Cigars.) H. G. Schaberg. No. 22,217; Oct. 12; v. 279; p. 350.
"The Preferred Chocolates." (For Chocolates.) A. G. Morse Co. No. 21,951; Aug. 3; v. 277; p. 180.
"The Signature of Ward Certifies Quality—Purity—Cleanliness." (For Bread.) Ward Baking Company. No. 22,348; Dec. 7; v. 281; p. 203.
"The Vanity Hair Net." (For Hair-Nets.) A. A. West. No. 21,900; June 29; v. 275; p. 1022.
"The Wonder Polish." (For a Polish.) The Wonder Polish Company. No. 21,753; Feb. 24; v. 271; p. 684.
"13 Soap Unlucky for Dirt." (For Soap.) The United American Trading Co. No. 22,091; Aug. 31; v. 277; p. 978.
"Thomason's Motor Life." (For a Gas-Saver, Carbon-Remover, and Lubricant, for any Style of Gasolene Explosion-Engine.) J. A. Thomason & Co. No. 22,090; Aug. 31; v. 277; p. 978.
"Thompson's." (For Pure Food Products.) J. R. Thompson Co. No. 22,032; Aug. 24; v. 277; p. 786.
"Thrift." (For Paint.) The R. F. Johnston Paint Company. No. 21,825; Apr. 20; v. 273; p. 627.
"Thurber's Bartlett Pears." (For Canned Bartlett Pears.) Alfred Putnam & Company. No. 21,797; Apr. 13; v. 273; p. 405.
"Thurber's Windham Corn." (For Canned Corn.) Alfred Putnam & Company. No. 21,796; Apr. 13; v. 273; p. 405.
"Tip-It, Patent Welding Compound, Permanent Weld Guaranteed." (For Welding Compounds.) Tip-It, (Inc.) No. 21,642; Jan. 6; v. 270; p. 187.
"Tip-Top." (For Bread.) E. Frisch. No. 21,870; May 25; v. 274; p. 837.
"Tommy Tucker." (For Boys' Blouses and Shirts.) Oelbaum Bros. & Bauer. No. 22,190; Oct. 12; v. 279; p. 349.
"Toyland Special." (For Crackers Known as Toyland Special and Cut in the Shape of a Car.) P. I. Jacoby. No. 21,903; July 6; v. 276; p. 206.
"Transparent Glycerine Soap." (For Soap.) Mulhens & Kropff Incorporated. No. 22,188; Oct. 12; v. 279; p. 349.
"Tria Loaf." (For Bread.) F. Wisnewski. No. 21,693; Feb. 3; v. 271; p. 154.
"Trisum." (For Canned Strawberries.) St. Joe Canning Co. No. 21,639; Jan. 6; v. 270; p. 187.
"Trithis." (For Candy.) The R. F. Mackenzie Co. No. 22,216; Oct. 12; v. 279; p. 350.
"Trusty Snap Fasteners." (For Snap-Fasteners.) Federal Snap Fastener Corporation. No. 22,254; Nov. 23; v. 280; p. 806.
"Tube-Lock." (For Patches for Rubber, &c.) Kreider Auto Needs Co. No. 21,826; Apr. 20; v. 273; p. 627.
"Twentieth Century Chocolates." (For Chocolate Candy.) Milwaukee Paper Box Company. No. 22,018; Aug. 24; v. 277; p. 785.
"U-Ki-Pa." (For Apples.) Yucaipa Apple Growers' Association. No. 21,757; Feb. 24; v. 271; p. 684.
"Underwood's Sardines in Mustard Dressing." (For Sardines.) William Underwood Company. No. 21,800; Apr. 13; v. 273; p. 405.
"Underwood's Sardines in Oil." (For Sardines.) William Underwood Company. No. 21,801; Apr. 13; v. 273; p. 405.
"Underwood's Sardines in Pure Olive Oil." (For Sardines in Pure Olive-Oil.) W. Underwood Company. No. 22,284; Nov. 23; v. 280; p. 807.
"Underwood's Sardines in Tomato Sauce." (For Sardines in Tomato Sauce.) W. Underwood Company. No. 22,285; Nov. 23; p. 280; p. 807.
"Uneek Salad Dressing." (For Containers Containing Salad-Dressing.) W. W. Lewis. No. 22,115; Sept. 14; v. 278; p. 365.
"United Piston Rings." (For Piston-Rings.) McQuay-Norris Mfg. Co. No. 21,675; Feb. 3; v. 271; p. 153.
"United Spark Plug." (For Spark-Plugs.) United Manufacturing & Distributing Company. No. 21,746; Feb. 24; v. 271; p. 684.
"Unity Bond." (For Letter-Head Paper.) Chicago Paper Company. No. 21,706; Feb. 24; v. 271; p. 683.
"Usacuba." (For Cigars.) W. L. Van Dyke. No. 22,138; Sept. 14; v. 278; p. 366.
"Valley Brand." (For Fresh Apples.) Valley Fruit Co. Inc. No. 21,982; Aug. 17; v. 277; p. 583.
"Valley Forge Special." (For Lager-Beer.) Adam Scheidt Company. No. 22,082; Aug. 31; v. 277; p. 977.
"Value Received." (For Chocolates.) A. G. Morse Co. No. 21,950; Aug. 3; v. 277; p. 180.
"Van Camp's Ginger Ale." (For Ginger-Ale.) The Van Camp Packing Company. No. 21,747; Feb. 24; v. 271; p. 684.
"Van Camp's Salted Peanuts." (For Salted Peanuts.) The Van Camp Packing Company. No. 21,748; Feb. 24; v. 271; p. 684.
"Van Dyke Label." (For Calf-Leather.) Barnet Leather Co., Inc. No. 22,177; Oct. 12; v. 279; p. 349.
"Van Heller." (For Flavoring Extracts.) B. Heller & Co. Nos. 21,720–1; Feb. 24; v. 271; p. 683.
"Velvet Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 22,304; Nov. 30; v. 280; p. 1005.

Digitized by Google

Alphabetical list of labels—Continued.

"Veno." (For Fruit-Juice.) J. M. Murphy. No. 22,362; Dec. 14; v. 281; p. 409.
"Victory Canning & Packing Cos. Brand." (For Canned Artichokes.) Victory Canning & Packing Company. No. 22,034; Aug. 24; v. 277; p. 786.
"Victory Middy Blouses." (For Girls' Middy-Blouses.) L. J. Freedman. No. 22,293; Nov. 30; v. 280; p. 1005.
"Victory Middy Dresses." (For Girls' Middy-Dresses.) L. J. Freedman. No. 22,294; Nov. 30; v. 280; p. 1005.
"Victory Star Brand Macaroni." (For Macaroni.) Windsor Locks Macaroni Mfg. Co. No. 21,645; Jan. 6; v. 270; p. 187.
"Victory Vapor Balm." (For a Medicine.) The V. V. B. Company. No. 21,749; Feb. 24; v. 271; p. 684.
"Vitola." (For Pharmaceutical Preparations in the Form of Tablets.) H. P. Clearwater. No. 22,240 Nov. 23; v. 280; p. 806.
"Vittoria." (For Olive-Oil.) Lyriotakis Bros. No. 21,626; Jan. 6; v. 270; p. 187.
"Vogt's Philadelphia Scrapple." (For Scrapple.) F. G. Vogt & Sons, Incorporated. No. 21,802; Apr. 13; v. 273; p. 405.
"Waller's Headache and Neuralgia Relief." (For Headache-Powders.) H. S. Waller. No. 22,314; Nov. 30; v. 280; p. 1005.
"Walton's Searchlight Wheat Hearts." (For a Cereal Food—Namely, Wheat Hearts.) Walton Milling Company. No. 21,840; Apr. 20; v. 273; p. 627.
"Ward-Baking Company Far-Famed Bread and Cakes." (For Bread and Cakes.) Ward Baking Company. No. 22,349; Dec. 7; v. 281; p. 203.
"Ward's De Luxe Cakes." (For Cakes.) Ward Baking Company. No. 21,899; June 29; v. 275; p. 1022.
"Warranted Polish." (For Polish for Pianos, Furniture, Automobiles, Leather, Woodwork, and other Smooth Surfaces.) R. R. Moser. No. 22,233; Nov. 16; v. 280; p. 587.
"Washburn's." (For Preparation of Powder or Liquid Used in Ice-Cream.) A. Daigger & Co. No. 22,290; Nov. 30; v. 280; p. 1005.
"Washer Maid." (For Soap.) The Washer Maid Company. No. 21,752; Apr. 27; v. 273; p. 806.
"Waterman's Ideal Ink." (For Waterman's Ideal Ink.) L. E. Waterman Company. Nos. 22,096–9; Sept. 7; v. 278; p. 162.
"Welch-Apl." (For a Non-Alcoholic Beverage Consisting of Apple Syrup and Carbonated Water.) The Welch Grape-Juice Company. No. 21,866; May 11; v. 274; p. 403.
"Welch's Apple Butter." (For Apple-Butter.) The Welch Grape-Juice Company. No. 21,692; Feb. 3; v. 271; p. 154.
"Well-Maid Pnut Britl. (For Peanut-Brittle.) Well-Maid Confection Co., Inc. No. 21,750; Feb. 24; v. 271; p. 684.
"Wellman Foods—Quality for 70 years." (For Canned Peaches.) Wellman, Peck & Co. No. 22,366; Dec. 14; v. 281; p. 409.
"Welsh Rarebit Marmalade." (For Marmalade for Making Welsh Rarebit, Golden Buck, Yorkshire, Slipon, &c.) J. E. Danio. No. 22,251; Nov. 23; v. 280; p. 806.
"Wennersten's Malthop, the Home Food-Beverage." (For Canned Extracts.) Henning Wennersten Incorporated. Nos. 22,061–2; Aug. 31; v. 277; p. 977.
"West Gold Seal Hair Net." (For Hair-Nets.) A. A. West. No. 21,902; June 29; v. 275; p. 1022.
"White Heather." (For Chocolate Fruit Creams.) The R. F. Mackenzie Co. No. 22,213; Oct. 12; v. 279; p. 350.
"White Top." (For Marshmallow Creme Preparation.) American Biscuit Company. No. 21,844; Apr. 27; v. 273; p. 806.
"Whole Wheat Bread." (For Whole-Wheat Bread.) Ralston Purina Company. No. 21,979; Aug. 17; v. 277; p. 583.
"Wild Cherry Charms." (For Fruit Tablets—Namely, Charms, Wild-Cherry Flavor.) Charms Company. No. 21,815; Apr. 20; v. 273; p. 627.
"Wild Hy-Ball." (For Non-Intoxicating Beverages.) R. A. Brachvogel. No. 21,990; Aug. 24; v. 277; p. 785.
"Woolco." (For Snap-Fasteners.) F. W. Woolworth Co. No. 22,376; Dec. 28; v. 281; p. 788.
"Worden's Delicious Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 22,269; Nov. 23; v. 280; p. 806.
"Worden's Neapolitan Ice Cream." (For Carton's Containing Ice-Cream.) Menasha Printing and Carton Company. No. 22,269; Nov. 23; v. 280; p. 806.
"Workmanship, Quality, Service." (For Boots and Shoes.) Lynchburg Shoe Company. No. 21,771; Apr. 6; v. 273; p. 183.
"World's Best Cafeteria Feeder." (For Live-Stock Feeders and Drinking-Fountains.) J. Q. Clarke Tank Co. No. 21,968; Aug. 17; v. 277; p. 583.
"Wright's Mouse Killer, not a poison." (For a Non-Poisonous Powder for Killing Rats and Mice.) R. B. Wright. No. 21,776; Apr. 6; v. 273; p. 183.
"Xtra-Good." (For Automobile-Tire Pumps.) Hartford Metal Products Company, The. No. 21,850; Apr. 27; v. 273; p. 806.
"Yakival." (For Apples.) Cloud-Thomas Co. No. 21,821; Apr. 20; v. 273; p. 627.
"Yankee Nut Creams." (For Candy.) Spierson Bros. No. 21,744; Feb. 24; v. 271; p. 684.
"Yankee Patty, A Pure Meat Product." (For Meat Patties in Casings.) O. Fleiss. No. 22,292; Nov. 30; v. 280; p. 1005.
"Young's Hand Soap—If It's Young's It's Safe." (For Soap.) C. W. Young & Co. No. 22,3[illegible] Dec. 7; v. 281; p. 203.
"Young's Soap Flakes." (For Soap Flakes.) Chas. W. Young & Co. No. 21,755; Feb. 24; v. 271; p. 684.
"Zay-Tek." (For Chocolate and Cocoa.) Pennsylvania Chocolate Company. No. 22,134; Sept. 14; v. 278; p. 365.
"Zig-Zag Piston Rings." (For Piston-Rings.) McQuay-Norris Mfg. Co. No. 21,674; Feb. 3; v. 271; p. 153.

ALPHABETICAL LIST OF PRINTS.

"A. D. S. Hepatic Salts." (For Uric-Acid Solvent.) American Druggists Syndicate. No. 5,416; Dec. 7; v. 281; p. 204.
"A. D. S. Milk of Magnesia." (For Milk of Magnesia.) American Druggists Syndicate. Nos. 5,414–5; Dec. 7; v. 281; p. 204.
"A. D. S. Peredixo Cream." (For Face and Skin Cream.) American Druggists Syndicate. Nos. 5,412–3; Dec. 7; v. 281; p. 204.
"A Hundred and One Recipes With Beech-Nut Peanut Butter." (For Beech-Nut Brand Peanut-Butter.) Beech-Nut Packing Co. No. 5,421; Dec. 7; v. 281; p. 204.
"A Matter of Good Taste." (For Chocolates.) Johnson Biscuit Company. No. 5,248; Apr. 20; v. 273; p. 628.
"Adamant Silica." (For Quartzite for Tube-Mill Linings and Pebbles.) C. F. Lytle. No. 5,226; Feb. 24; v. 271; p. 685.
"American Brand Shoe Laces." (For Shoe-Laces.) American Narrow Fabric Co. No. 5,387; Nov. 30; v. 280; p. 1006.
"American Walnut." (For Walnut Wood.) American Walnut Manufacturers Association. No. 5,417; Dec. 7; v. 281; p. 204.
"Angelus Marshmallows." (For Marshmallows.) Rueckheim Bros. & Eckstein. No. 5,249; Apr. 20; v. 273; p. 628.
"Arguto." (For Machinery-Bearings.) Norman Mellor. No. 5,328; Aug. 31; v. 277; p. 978.
"Astounding Growth of The World Wide Rit Industry." (For Rit Dye-Soap.) Sunbeam Chemical Company. No. 5,196; Jan. 27; v. 270; p. 618.
"At Every Meal Eat Cookie-Cakes and Crackers." (For Cookie-Cakes and Crackers.) The Biscuit & Cracker Manufacturers' Association. No. 5,366; Oct. 12; v. 279; p. 350.
"B. V. D. 1919 Men's Two Piece Suit." (For Underwear.) The B. V. D. Company. No. 5,221; Feb. 24; v. 271; p. 685.
"Bankers' Diamond Selection Service." (For Diamonds.) Jacob Bennett Inc. No. 5,240; Apr. 13; v. 273; p. 406.
"Beech-Nut Brand Peanut Butter." (For Peanut-Butter.) Beech-Nut Packing Co. No. 5,390; Nov. 30; v. 280; p. 1006.
"Beech-Nut Brand Peanut Butter." (For Beech-Nut Brand Peanut-Butter.) Beech-Nut Packing Co. No. 5,418; Dec. 7; v. 281; p. 204.
"Besto Nut." (For a Spread for Bread.) Wisconsin Butterine Co. No. 5,291; Aug. 17; v. 277; p. 583.
"Big Yank." (For Work-Shirts.) Reliance Manufacturing Company. No. 5,360; Sept. 21; vol. 278; p. 542.
"Boal's Rolls." (For Edible Fruit Rolls Containing a Laxative.) Boal's Rolls Corporation. No. 5,214; Feb. 24; v. 271; p. 685.
"Bugs Breathe It and Die." (For Insecticide.) Hofstra Manufacturing Company. No. 5,322; Aug. 31; v. 277; p. 978.
"Call for Philip Morris." (For Cigarettes.) Philip Morris & Company. No. 5,227; Feb. 24; v. 271; p. 685.
"Canned Food — The Miracle on Your Table." (For Canned Foods.) National Canners Association. No. 5,289; Apr. 6; v. 273; p. 188.

Digitized by Google

"Carbon Sheets for Duplicating Cause No Trouble in Pads Bound by Nurex." (For Tabbing Compounds.) The Lee Hardware Co. No. 5,327; Aug. 31; v. 277; p. 978.

"Certificate of Purchase." (For a Treatment for Freckles.) Othine Laboratories. No. 5,231; Feb. 24; v. 271; p. 685.

"Chalk Talks for Men." (For Shaving-Cream.) The Palmolive Company. No. 5,407; Nov. 30; v. 280; p. 1006.

"Chessco." (For Cough Preparation.) A. M. Yancey. No. 5,377; Nov. 16; v. 280; p. 587.

"Christmas Tree Lighting Outfits." (For Lighting Outfits.) Import Sales Company. No. 5,324; Aug. 31; v. 277; p. 978.

"Come in, Let Us Show You Detmer University Novelties, Latest Suitings." (For Detmer Woolens.) Detmer Woolen Co. No. 5,342; Sept. 14; v. 278; p. 366.

"Come In—Let us show you Detmer University Novelties, Latest Suitings." (For Detmer Woolens.) Detmer Woolen Co. No. 5,365; Sept. 21; v. 278; p. 542.

"Comfort Coke." (For Fuel-Coke.) United Fuel & Supply Company. No. 5,257; May 11; v. 274; p. 403.

"Council Meats come from the Wisconsin Country to You." (For Canned Meats.) Indian Packing Company. No. 5,224; Feb. 24; v. 271; p. 685.

"Courtesy of the Road." (For Traffic-Semaphores.) H. E. Bradley Co. No. 5,371; Oct. 12; v. 279; p. 350.

"Deerfield." (For Oranges and Grapefruit.) E. P. Porcher. No. 5,349; Sept. 14; v. 278; p. 366.

"Delight in Every Bite." (For Apples.) Mutual Service Corporation. No. 5,359; Sept. 21; v. 278; p. 542.

"Derryvale." (For Linen Piece Goods.) Derryvale Linen Company. No. 5,189; Jan. 6; v. 270; p. 187.

"Discriminating folk are always quite as smartly appareled." (For Gloves.) Morrison-Ricker Mfg. Company. No. 5,230; Feb. 24; v. 271; p. 685.

"Don't Buy New Corsets." (For Dye-Soap.) Sunbeam Chemical Co. No. 5,274; July 27; v. 276; p. 774.

"Don't You Wish't you had some Beech-Nut Peanut Butter?" (For Beech-Nut Brand Peanut-Butter.) Beech-Nut Packing Co. No. 5,420; Dec. 7; v. 281; p. 204.

"Drink Green River." (For Non-Alcoholic Beverages. Schoenhofen Company. No. 5,289; Aug. 17; v. 277; p. 583.

"Drink Green River the Snappy Lime Drink." (For Non-Alcoholic Beverage—Namely, a Lime Drink.) Schoenhofer Company. No. 5,317; Aug. 24; v. 277; p. 786.

"Easy Way to Beauty." (For Palmolive Soap.) The Palmolive Company. No. 5,431; Dec. 7; v. 281; p. 204.

"Economy." (For Athletic Underwear.) The B. V. D. Company. No. 5,354; Sept. 21; v. 278; p. 542.

"Encore." (For Confectionery—Namely, Chocolates.) Boston Confectionery Company. No. 5,367; Oct. 12; v. 279; p. 350.

"Every Bite a Delight." (For Cakes.) Grennan Cake Corporation. No. 5,320; Aug. 31; v. 277; p. 978.

"Every Complexion Needs Soap." (For Soap.) The Palmolive Company. No. 5,308; Aug. 24; v. 277; p. 786.

"First down—Four to Feed." (For Beech-Nut Brand Peanut-Butter.) Beech-Nut Packing Co. No. 5,419; Dec. 7; v. 281; p. 204.

"Folding Table." (For Collapsible Tables.) Affa Specialty Co. No. 5,199; Feb. 3; v. 271; p. 154.

"For a Lovely Complexion and Glorious Hair." (For Soap.) James S. Kirk & Company. No. 5,346; Sept. 14; v. 278; p. 366.

"For the Little Folks." (For Scissors and Shears.) The Acme Shear Company. No. 5,276; Aug. 3; v. 277; p. 180.

"Four Factors of Character In The New Series Haynes." (For Automobiles.) The Haynes Automobile Company. No. 5,223; Feb. 24; v. 271; p. 685.

"Franklin Fashions." (For Men's Suits and Pants.) Franklin Clothing Mfg. Co. No. 5,382; Nov. 23; v. 280; p. 807.

"Garcia Grande Cigars." (For Cigars.) J. Klorfein. No. 5,386; Nov. 23; v. 280; p. 807.

"Gold Dust—a Real Help at Preserving Time." (For Washing-Powder.) The N. K. Fairbank Company. No. 5,294; Aug. 24; v. 277; p. 786.

"Good Bye Old Blacking Brush." (For the Range.) The Floyd Wells Co. No. 5,425; Dec. 7; v. 281; p. 204.

"Goodyear Tires Give Good Wear." (For Elastic Vehicle-Tires.) The Goodyear Tire & Rubber Co. No. 5,370; Oct. 12; v. 279; p. 350.

"Graham Beauty Secret." (For a Preparation for Cleansing the Skin.) P. Graham. No. 5,268; July 27; v. 276; p. 774.

"Grinnell Driving Gloves are worthy of the best drivers." (For Gloves.) Morrison-Ricker Mfg. Company. No. 5,228; Feb. 24; v. 271; p. 685.

"Grinnell Driving Gloves mean cool, comfortable hands." (For Gloves.) Morrison-Ricker Mfg. Company. No. 5,229; Feb. 24; v. 271; p. 685.

"Handy Candy Anise Drops." (For Candy.) Beech-Nut Packing Company. No. 5,389; Nov. 30; v. 280; p. 1006.

"Handy Candy Caramels." (For Handy Candy Caramels.) Beech-Nut Packing Company. No. 5,334; Sept. 7; v. 278; p. 162.

"Handy Candy Cinnamons." (For Candies.) Beech-Nut Packing Company. No. 5,284; Aug. 10; v. 277; p. 393.

"Handy Candy Cloves." (For Candy—namely, Cloves.) Beech-Nut Packing Company. No. 5,352; Sept. 21; v. 278; p. 542.

"Handy Candy Horehound Drops." (For Candies.) Beech-Nut Packing Company. No. 5,378; Nov. 23; v. 280; p. 807.

"Handy Candy Lemon Drops." (For Candy.) Beech-Nut Packing Company. No. 5,282; Aug. 10; v. 277; p. 393.

"Handy Candy Licorice." (For Candy—namely, Licorice.) Beech-Nut Packing Company. No. 5,353; Sept. 21; v. 278; p. 542.

"Handy Candy Lime Drops." (For Candy.) Beech-Nut Packing Company. No. 5,283; Aug. 10; v. 277; p. 393.

"Handy Candy Mints." (For Candy Mints.) Beech-Nut Packing Company. No. 5,318; Aug. 31; v. 277; p. 978.

"Handy Candy Sweet Birches." (For Candies.) Beech-Nut Packing Company. No. 5,277; Aug. 3; v. 277; p. 180.

"Handy Candy Wintergreens." (For Candy.) Beech-Nut Packing Company. No. 5,281; Aug. 10; v. 277; p. 393.

"Harmless to Humans—Fatal to Bugs." (For Insecticide.) Hofstra Manufacturing Company. No. 5,321; Aug. 31; v. 277; p. 978.

"Hays Gloves. (For Leather Gloves.) The Daniel Hays Company. No. 5,188; Jan. 6; v. 270; p. 187.

"Hays Gloves." (For Leather Gloves.) The Daniel Hays Company. No. 5,287; Aug. 17; v. 277; p. 583.

"Hays Gloves." (For Leather Gloves.) The Daniel Hays Company. No. 5,355; Sept. 21; v. 278; p. 542.

"He saved the last Coffee Plant." (For Coffee.) Joint Coffee Trade Publicity Committee of the United States. No. 5,373; Oct. 12; v. 279; p. 350.

"Heinz Cream of Tomato Soup Made with Real Cream Here is the Richness of pure Cream, which nourishes, and the appetizing taste of ripe Tomatoes, which gives a keener zest to the food that follows." (For Heinz Cream-of-Tomato Soup.) H. J. Heinz Company. No. 5,395; Nov. 30; v. 280; p. 1006.

"Heinz Fig Pudding." (For Heinz Fig-Pudding.) H. J. Heinz Company. No. 5,343; Sept. 14; v. 278; p. 366.

"Heinz Oven Baked Beans." (For Heinz Oven-Baked Beans.) H. J. Heinz Company. No. 5,345; Sept. 14; v. 27; p. 366.

"Heinz Oven Baked Beans a Quick Meal and a Ready One." (For Heinz Oven-Baked Beans.) H. J. Heinz Company. No. 5,385; Nov. 23; v. 280; p. 807.

"Heinz Oven Baked Beans baked by dry heat in real ovens until they yield every bit of flavor that baked beans should have." (For Heinz Oven-Baked Beans.) H. J. Heinz Company. No. 5,393; Nov. 30; v. 280; p. 1006.

"Heinz Oven Baked Beans Did you ever see a boy eat Heinz Oven Baked Beans?" (For Heinz Oven-Baked Beans.) H. J. Heinz Company.) No. 5,402; Nov. 30; v. 280; p. 1006.

"Heinz Oven Baked Beans The Taste is Not an accident The Skill of a Cook is shown in the way he takes the same materials that other cooks have and produces from them a dish that demands special praise." (For Heinz Oven-Baked Beans.) H. J. Heinz Company. No. 5,391; Nov. 30; v. 280; p. 1006.

"Heinz Oven Baked Beans There are Three strong appeals in Heinz Oven Baked Beans." (For Heinz Oven-Baked Beans.) H. J. Heinz Company. No. 5,403; Nov. 30; v. 280; p. 1006.

"Heinz Oven Baked Beans Vigorous growing boys need nutritive, body building food." (For Heinz Oven-Baked Beans.) H. J. Heinz Company. No. 5,400; Nov. 30; v. 280; p. 1006.

"Heinz Oven Baked Beans Why do Heinz Baked Beans taste so good?" (For Heinz Oven-Baked Beans.) H. J. Heinz Company. No. 5,401; Nov. 30; v. 280; p. 1006.

"Heinz Spaghetti ready cooked ready to serve a satisfying food, appetizing, wholesome, thoroughly cooked, and convenient to serve—just heat it." (For Heinz Spaghetti.) H. J. Heinz Company. No. 5,396; Nov. 30; v. 280; p. 1006.

"Heinz Spaghetti Ready Cooked Ready to Serve First the Spaghetti is Made in the Spotless Home of the 57 Varieties. (For Heinz Spaghetti.) H. J. Heinz Company. No. 5,383; Nov. 23; v. 280; p. 807.

"Heinz Spaghetti Ready Cooked ready to serve Heinz Spaghetti is a delicious dish." (For Heinz Spaghetti.) H. J. Heinz Company. No. 5,397; Nov. 30; v. 280; p. 1006.

"Heinz Spaghetti Ready cooked ready to serve Young housekeepers should quickly learn how good Heinz Spaghetti is." (For Heinz Spaghetti.) H. J. Heinz Company. No. 5,398; Nov. 30; v. 280; p. 1006.

"Heinz Tomato Ketchup." (For Heinz Tomato Catchup.) H. J. Heinz Company. No. 5,344; Sept. 14; v. 278; p. 366.

Digitized by Google

Alphabetical list of prints—Continued.

"Heinz Vinegars A Salad is as good as its dressing." (For Heinz Vinegars.) H. J. Heinz Company.) No. 5,399; Nov. 30; v. 280; p. 1006.
"Heinz Vinegars Every drop awakens flavor It goes without saying that the best materials, painstaking effort and cleanly methods ought to produce good Vinegar." (For Heinz Vinegars.) H. J. Heinz Company. No. 5,394; Nov. 30; v. 280; p. 1006.
"Heinz Vinegars Every Drop Awaken Flavor Malt Cider and White—Heinz Imported Olive Oil." (For Heinz Vinegars.) H. J. Heinz Company. No. 5,384; Nov. 23; v. 280; p. 807.
"Heinz Vinegars Three Vinegars — Malt, Cider, and White—All made of the choicest materials, with the care and skill that long experience has proved good and aged in wood to develop the aroma." (For Heinz Vinegars.) H. J. Heinz Company. No. 5,392; Nov. 30; v. 280; p. 1006.
"Hey Skinnay, C'mon over." (For Peanut-Butter.) Beech-Nut Packing Co. No. 5,388; Nov. 30; v. 280; p. 1006.
"Hofstra—The National Insecticide." (For Insecticide.) Hofstra Manufacturing Company. No. 5,323; Aug. 31; v. 277; p. 978.
"How do you get that way?" (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,351; Sept. 14; v. 278; p. 366.
"How Washing Your Face Makes Rouge and Powder Harmless." (For Soap.) The Palmolive Company. No. 5,260; June 29; v. 275; p. 1022.
"I'll Say My Wife Will Have an Eden Next Wash Day." (For Washing-Machines.) Brokaw-Eden Company. No. 5,424; Dec. 7; v. 281; p. 204.
"Indian Wine." (For a Non-Alcoholic Beverage.) D. Canale & Co. No. 5,222; Feb. 24; v. 271; p. 685.
"It Simply isn't Christmas without Sparrows." (For Confectionery.) Boston Confectionery Company. No. 5,339; Sept. 14; v. 278; p. 366.
"Kaffee Hag." (For Coffee.) Kaffee Hag Corporation. No. 5,375; Oct. 12; v. 279; p. 350.
"King '8' 'Limoudan.'" (For Automobiles.) King Car Corporation of New York. No. 5,191; Jan. 6; v. 270; p. 187.
"King 8 Sedanette." (For Automobiles.) King Car Corporation of New York. No. 5,269; July 27; v. 276; p. 774.
"Laxatoids." (For Laxative Cathartic.) J. L. Farnum. No. 5,259; June 29; v. 275; p. 1022.
"Leadership." (For Athletic Underwear.) The B. V. D. Company. No. 5,369; Oct. 12; v. 279; p. 350.
"Learning to Drink Martin's Calf Feed." (For Calf Feed.) Martin Calf Feed Company. No. 5,241; Apr. 13; v. 273; p. 406.
"Lectro Service Stand." (For Devices for Locating and Eliminating Short Circuits in and Recharging Magnets of Ford Magnetos.) Lectro Sales Company. No. 5,288; Aug. 17; v. 277; p. 583.
"Little Indian—Sioux or Crow." (For Cream of Wheat.) Cream of Wheat Co. No. 5,434; Dec. 14; v. 281; p. 409.
"Live Better for Less." (For Food Products.) Basket Stores Company. No. 5,200; Feb. 3; v. 271; p. 154.
"Long Life Colors." (For Decorative Fabrics.) A. Theo. Abbott & Co. No. 5,237; Mar. 2; v. 272; p. 177.
"Long Wear." (For Athletic Underwear.) The B. V. D. Company. No. 5,340; Sept. 14; v. 278; p. 366.
"Long Wear." (For Athletic Underwear.) The B. V. D. Company. No. 5,368; Oct. 12; v. 279; p. 350.
"Make Your Own Colors Successfully." (For Rit Dye-Soap.) Sunbeam Chemical Company. No. 5,197; Jan. 27; v. 270; p. 618.
"Make Your Own Ink." (For a Powdered Ink.) The Economy Ink Company. No. 5,293; Aug. 24; v. 277; p. 786.
"Makes Your Hair Look Its Best." (For Mulsified Cocoanut-Oil Shampoo.) The R. L. Watkins Company. Nos. 5,331–3; Aug. 31; v. 277; p. 978.
"Making a Hit." (For Boys' Blouses.) The Kaynee Company. No. 5,325; Aug. 31; v. 277; p. 978.
"Mammy's Beau." (For Wheat Breakfast Food.) Cream of Wheat Co. No. 5,433; Dec. 14; v. 281; p. 409.
"Mulsified." (For Cocoanut-Oil Shampoo.) The R. L. Watkins Company. No. 5,437; Dec. 14; v. 281; p. 409.
"My Mama." (For Phonographs.) World Phonograph Company. No. 5,364; Sept. 21; v. 278; p. 542.
"Nailing the Right Bower Every Time the Deck's Dealt." (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,312; Aug. 24; v. 277; p. 786.
"No-Leak-O Oilsealing." (For Piston-Rings.) No-Leak-O Piston Ring Company. No. 5,347; Sept. 14; v. 278; p. 366.
"No Need Putting in a Call for the Old Family Yard Stick." (For Smoking Tobacco.) R. J. Reynolds Tobacco Company. No. 5,362; Sept. 21; v. 278; p. 542.
"Not Really New." (For Dye Soap—Namely, Rit.) Sunbeam Chemical Company. No. 5,233; Feb. 14; v. 271; p. 685.
"Novak's Pills." (For Pills for the Treatment of Constipation.) John Novak Company. No. 5,329; Aug. 31; v. 277; p. 978.
"Nucoa Churn Girl." (For Substitute for Butter.) The Nucoa Butter Company. No. 5,286; Aug. 10; v. 277; p. 393.
"Nurex Tabbing Compound." (For Tabbing Compounds.) The Lee Hardware Co. No. 5,326; Aug. 31; v. 277; p. 978.
"Oak." (For Oak Flooring.) Oak Flooring Manufacturing Association. No. 5,253; Apr. 20; v. 273; p. 628.
"Oil Sealing Piston Rings." (For Piston-Rings.) No-Leak-O Piston Ring Company. No. 5,428; Dec. 7; v. 281; p. 204.
"On bended knees the black slaves served coffee." (For Coffee.) Joint Coffee Trade Publicity Committee of the United States. No. 5,372; Oct. 12; v. 279; p. 350.
"One of the few things 5 cents will buy—Gold Dust." (For Washing Powder.) The N. K. Fairbank Company. No. 5,267; July 27; v. 276; p. 774.
"Ouija." (For Talking Board.) W. Fuld. No. 5,358; Sept. 21; v. 278; p. 542.
"Our Gold Standard Line." (For Salt.) The Union Salt Company. No. 5,234; Feb. 14; v. 271; p. 685.
"P. A. has such a joy'us way of making men glad about jimmy pipes!" (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,244; Apr. 18; v. 273; p. 406.
"P. A. lets the cat out of the smoke-bag." (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,192; Jan. 6; v. 270; p. 187.
"P. A. plays such a glad tune in that old jimmy pipe!" (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,242; Apr. 13; v. 273; p. 406.
"Palmolive Cold Cream Removes Those little care and worry wrinkles over night." (For Palmolive Cold-Cream.) The Palmolive Company. No. 5,409; Nov. 30; v. 280; p. 1006.
"Palmolive Shampoo Leaves your Hair Soft and glossy and increases its natural beauty." (For Palmolive Shampoo.) The Palmolive Company. No. 5,408; Nov. 30; v. 280; p. 1006.
"Palzo." (For A Cleanser.) Runyan Chemical Products Co. No. 5,254; Apr. 27; v. 273; p. 806.
"Palzo Takes The Place of Old-Fashioned Soap." (For a Cleanser.) Runyan Chemical Products Co. No. 5,238; Mar. 9; v. 272; p. 372.
"Palzo The Great American Cleaner." (For a Cleaner.) Runyan Chemical Products Co. No. 5,250; Apr. 20; v. 273; p. 628.
"Prince Albert the National Christmas Joy Smoke." (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,313; Aug. 24; v. 277; p. 786.
"Protects You—And Your Home." (For a Germicide.) Sunbeam Chemical Company. No. 5,212; Feb. 12; v. 271; p. 154.
"Pure as Gold Transparent as Truth." (For Kirk's Jap Rose Soap.) James S. Kirk & Company. No. 5,305; Aug. 24; v. 277; p. 786.
"Rees Jacks Save Backs." (For Jacks.) Iron City Products Company. No. 5,435; Dec. 14; v. 281; p. 409.
"Re-Incarnation of Beauty." (For Soap.) The Palmolive Company. No. 5,310; Aug. 24; v. 277; p. 786.
"Rely on Reliance." (For Work-Shirts.) Reliance Mfg. Company. No. 5,311; Aug. 24; v. 277; p. 786.
"Rubberset." (For Tooth, Lather, and Hair Brushes.) Rubber & Celluloid Products Co. No. 5,264; June 29; v. 275; p. 1022.
"Salz $1 Fountain Pen." (For Fountain-Pens.) Salz Brothers. No. 5,272; July 27; v. 276; p. 774.
"Samson Motor Fuel." (For Motor-Fuel.) Great Southern Producing & Refining Co. No. 5,195; Jan. 27; v. 270; p. 618.
"Seal of the Sanitary Inspection Service." (For Canned Foods.) National Canners Association. No. 5,436; Dec. 14; v. 281; p. 409.
"Shot." (For Non-Alcoholic Beverage.) J. A. Franklin. No. 5,356; Sept. 21; v. 278; p. 542.
"Simple Home Treatment Which Makes Your Hair Thick and Beautiful." (For Shampoo.) The Palmolive Company. No. 5,348; Sept. 14; v. 278; p. 366.
"Simple Home Treatments Which Make Your Hair Thick and Beautiful." (For Shampoo.) The Palmolive Company. No. 5,432; Dec. 7; v. 281; p. 204.
"Skookum America's Supreme Apples Who Can Resist Them?" (For Apples.) Northwestern Fruit Exchange. No. 5,307; Aug. 24; v. 277; p. 786.
"So Simple Yet So Sure." (For Palmolive Soap.) The Palmolive Company. (No. 5,430; Dec. 7; v. 281; p. 204.
"Solrex." (For Watches.) Marshall Field and Company No. 5,270; July 27; v. 276; p. 774.
"Some Picnic We'll Say." (For Beech-Nut Brand Peanut-Butter.) Beech-Nut Packing Co. No. 5,422; Dec. 7; v. 281; p. 204.
"Speed Wagon." (For Motor-Trucks.) Reo Motor Car Co. No. 5,262; June 29; v. 275; p. 1022.
"'Speed Wagon' an Exclusive Reo Appellation." (For Motor-Trucks.) Reo Motor Car Co. No. 5,263; June 29; v. 275; p. 1022.
"Splint Coal." (For Coal.) The C. Reiss Coal Company No. 5,232; Feb. 24; v. 271; p. 685.
"Starting Right! Bon Bon never Disappoints." (For Baking-Powder.) J. C. Grant Chemical Co. No. 5,256; May 11; v. 274; p. 403.

Digitized by Google

"Stylish Colors Everywhere 'Rit' ed with Rit." (For Dye-Soap.) Sunbeam Chemical Company. No. 5,198; Jan. 6; v. 270; p. 187.
"Sulfosol Hair Tonic." (For Hair-Tonic.) L. C. Wedgefuth. No. 5,235; Feb. 14; v. 271; p. 685.
"Sun Flakes Give Your Washable Garments a Sun Flake Bath." (For Soaps in Flake Form.) Sunbeam Chemical Company. No. 5,255; Apr. 27; v. 273; p. 806.
"Sweeney Tank and Supply Co." (For Tanks and Tank Supplies.) T. E. Sweeney. No. 5,273; July 27; v. 276; p. 774.
"Sweetheart Chocolates." (For Candy.) The Harter Candy Co. No. 5,285; Aug. 10; v. 277; p. 393.
"System Cleaners." (For Laxative Tablets.) Septole Hygiene Co. No. 5,252; Apr. 20; v. 273; p. 628.
"Take A Sweet-Odor-Home." (For a Liquid Deodorant.) Sweet-Odor-Home Company. No. 5,438; Dec. 14; v. 281; p. 409.
"Taking Awkward Angles Out of the Early Christmas Morning Atmosphere." (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,315; Aug. 24; v. 277; p. 786.
"Taking Care of Ball Bearings of Our A-B-C Grinding Line." (For Ball Bearings of Our A-B-C Grinding Line of Flour and Feed Grinders.) William Patent Crusher & Pulverizer Co. No. 5,251; Apr. 20; v. 273; p. 628.
"Taking Care of Ball Bearings of Our Little Giant Line of Grinding Mills." (For Ball-Bearings of Our Little Giant Line of Grinding Mills Used as Feed-Grinders.) Williams Patent Crusher & Pulverizer Co. No. 5,258; May 11; v. 274; p. 403.
"Talk About Handing Yourself a Birthday-Blow-Out with Bells on." R. J. Reynolds Tobacco Campany. No. 5,316; Aug. 24; v. 277; p. 786.
"Taxpayers Value Brick Roads." (For Paving-Brick.) National Paving Brick Manufacturers Association No. 5,271; July 27; v. 276; p. 774
"Tell Me the Truth. (For Soap.) The Palmolive Company. No. 5,261; June 29; v. 275; p. 1022.
"That's It—The Breakfast Food of the Nation." (For Cream of Wheat.) Cream of Wheat Co. No. 5,381; Nov. 23; v. 280; p. 807.
"The Account Book." (For Jell-O.) The Genesee Pure Food Company. No. 5,427; Dec. 7; v. 281; p. 204.
"The Drink With a Tickle for a Nickle." (For Non-Alcoholic Beverage.) J. A. Franklin. No. 5,357; Sept. 21; v. 278; p. 542.
"The Forget-Me-Not of Sweets." (For Confectionery, Namely, Chocolates.) Boston Confectionery Company. No. 5,379; Nov. 23; p. 280; p. 807.
"The Four Keys to Cleanliness." (For Soap.) Kirkman & Son. No. 5,225; Feb. 24; v. 271; p. 685.
"The glory of a woman is her skin." (For Toilet Soap.) The N. K. Fairbank Company. No. 5,190; Jan. 6; v. 270; p. 187.
"The Glory of Cornhill's Alley—Coffee." (For Coffee.) Joint Coffee Trade Publicity Committee of the United States. No. 5,374; Oct. 12; v. 279; p. 350.
"The Haynes Sedan." (For Automobiles.) The Haynes Automobile Company. No. 5,247; Apr. 20; v. 273; p. 628.
"The Largest Selling Quality Pencil in the World." (For Lead-Pencils.) American Lead Pencil Company. Nos. 5,336–8; Sept. 14; v. 278; p. 366.
"The New Improved Double Floor Whitaker Denture Vacuum." (For Vacuum Denture.) G. S. Whitaker. No. 5,363; Sept. 21; v. 278; p. 542.
"The New 1920 Haynes Roadster." (For Automobiles.) The Haynes Automobile Company. No. 5,298; Aug. 24; v. 277; p. 786.
"The New 1920 Haynes Roadster." (For Automobiles.) The Haynes Automobile Company. No. 5,304; Aug. 24; v. 277; p. 786.
"The New 1920 Haynes Touring Car." (For Automobiles.) The Haynes Automobile Company. No. 5,295; Aug. 24; v. 277; p. 786.
"The New 1920 Haynes Touring Car." (For Automobiles.) The Haynes Automobile Company. No. 5,302; Aug. 24; v. 277; p. 786.
"The New Series Haynes Brougham." (For Automobiles.) The Haynes Automobile Company. Nos. 5,296–7; Aug. 24; v. 277; p. 786.
"The New Series Haynes Coupé." (For Automobiles.) The Haynes Automobile Company. No. 5,299; Aug. 24; v. 277; p. 786.
"The New Series Haynes Coupé." (For Automobiles.) The Haynes Automobile Company. No. 5,301; Aug. 24; v. 277; p. 786.
"The New Series Haynes Possesses Four Vital Factors." (For Automobiles.) Haynes Automobile Company. No. 5,246; Apr. 20; v. 273; p. 628.
"The New Series Haynes Suburban." (For Automobiles.) The Haynes Automobile Company. No. 5,300; Aug. 24; v. 277; p. 786.
"The New Series Haynes Suburban." (For Automobiles.) The Haynes Automobile Company. No. 5,303; Aug. 24; v. 277; p. 786.
"The New Series Haynes Suburban." (For Automobiles.) The Haynes Automobile Co. No. 5,335; Sept. 7; v. 278; p. 102.
"The Only Screw Holes in the World." (For Anchor-Sockets for Screws.) The Stine Screw Hole Co. No. 5,410; Nov. 30; v. 280; p. 1006.
"The Order Pad." (For Jell-O.) The Genesee Pure Food Company. No. 5,426; Dec. 7; v. 281; p. 204.
"The Price of Beauty." (For Soap.) The Palmolive Company. No. 5,280; Aug. 3; v. 277; p. 180.
"The Price of a Good Complexion." (For Soap.) The Palmolive Company. No. 5,330; Aug. 31; v. 277; p. 978.
"The Snappy Link." (For Cuff-Links.) John A. Cunningham & Co. No. 5,341; Sept. 14; v. 278; p. 366.
"The Tyre to Tie To." (For Tires and Tubes.) Braender Rubber & Tire Co. No. 5,187; Jan. 6; v. 270; p. 187.
"The Way to Rose Complexions." (For Soap.) The Palmolive Company. No. 5,309; Aug. 24; v. 277; p. 786.
"There have been many popular false alarms but—." (For Coffee.) Joint Coffee Trade Publicity Committee of The United States. No. 5,406; Nov. 30; v. 280; p. 1006.
"Try a Green River Soda." (For Non-Alcoholic Beverages.) Schoenhofen Company. No. 5,290; Aug. 17; v. 277; p. 583.
"Try Her Beauty Secret." (For Rit Dye-Soap.) Sunbeam Chemical Company. No. 5,198; Jan. 27; v. 270; p. 618.
"Vanity Fair." (For Photographs.) Vanity Fair Studios, Inc. No. 5,411; Nov. 30; v. 280; p. 1006.
"Virginia Dare Agrees with the Constitution." (For Non-Intoxicating Wine.) Garrett and Company, Incorporated. No. 5,319; Aug. 31; v. 277; p. 978.
"Virginia Fairy or Lucky Stone Co." (For Virginia Fairy or Lucky Stones.) E. E. Haley. No. 5,245; Apr. 20; v. 273; p. 628.
"Watches That Run." (For Watches. Adels-Ribakoff Co. Inc. No. 5,266; July 20; v. 276; p. 594.
"Wear B. V. D. 'On The Job!'" (For Athletic Underwear.) The B. V. D. Company. No. 5,204; Feb. 3; v. 271; p. 154.
"Wear B. V. D. 'On The Job!'" (For Athletic Underwear.) The B. V. D. Company. No. 5,211; Feb. 3; v. 271; p. 154.
"Wear B. V. D. On Your Business Trip." (For Underwear.) The B. V. D. Company. Nos. 5,219–20; Feb. 24; v. 271; p. 685.
"Wear B. V. D. On Your Vacation." (For Athletic Underwear.) The B. V. D. Company. No. 5,194; Jan. 27; v. 270; p. 618.
"Wear B. V. D. On Your Vacation." (For Athletic Underwear.) The B. V. D. Company. No. 5,202; Feb. 3; v. 271; p. 154.
"Wear B. V. D. To The Beach!" (For Athletic Underwear.) The B. V. D. Company. No. 5,205; Feb. 3; v. 271; p. 154.
"Wear B. V. D. To The Beach!" (For Athletic Underwear.) The B. V. D. Company. No. 5,210; Feb. 3; v. 271; p. 154.
"Wear B. V. D. To The Dinner Party." (For Athletic Underwear.) The B. V. D. Company. No. 5,203; Feb. 3; v. 271; p. 154.
"Wear B. V. D. To The Dinner Party." (For Underwear.) The B. V. D. Company. No. 5,216; Feb. 24; v. 271; p. 685.
"Wear B. V. D. To The Lawn Party!" (For Athletic Underwear.) The B. V. D. Company. No. 5,206; Feb. 3; v. 271; p. 154.
"Wear B. V. D. To The Lawn Party." (For Underwear.) The B. V. D. Company. No. 5,218; Feb. 24; v. 271; p. 685.
"Wear B. V. D. To The Theatre!" (For Athletic Underwear.) The B. V. D. Company. No. 5,208; Feb. 3; v. 271; p. 154.
"Wear B. V. D. To The Theatre." (For Underwear.) The B. V. D. Company. No. 5,215; Feb. 24; v. 271; p. 685.
"Wear B. V. D. To Your Club!" (For Athletic Underwear.) The B. V. D. Company. No. 5,207; Feb. 3; v. 271; p. 154.
"Wear B. V. D. To Your Club." (For Underwear.) The B. V. D. Company. No. 5,217; Feb. 24; v. 271; p. 685.
"Wear B. V. D. To Work!" (For Athletic Underwear.) The B. V. D. Company. No. 5,201; Feb. 3; v. 271; p. 154.
"Wear B. V. D. To Work!" (For Athletic Underwear.) The B. V. D. Company. No. 5,209; Feb. 3; v. 271; p. 154.
"We outgrow our old foolish fears." (For Coffee.) Joint Coffee Trade Publicity Committee of The United States. No. 5,405; Nov. 30; v. 280; p. 1006.
"Weston Ammeter." (For Ammeters.) Weston Electrical Instrument Company. No. 5,236; Feb. 24; v. 271; p. 685.
"What a Grip You've Got on Smokesport at Both Ends." (For Smoking Tobacco.) R. J. Reynolds Tobacco Company. No. 5,361; Sept. 21; v. 278; p. 542.
"What Science Has Done." (For Shaving-Cream.) The Palmolive Company. No. 5,429; Dec. 7; v. 281; p. 204.
"What Tabbing Compound Permits This? Only Nurex!" (For Tabbing Compound.) The Lee Hardware Co. No. 5,278; Aug. 3; v. 277; p. 180.

Digitized by Google

Alphabetical list of prints—Continued.

"Where Shall We Put the Baby?" (For Baby-Cribs.) The Caldwell Manufacturing Company. No. 5,380; Nov. 23; v. 280; p. 807.

"Wild and Weird were our old delusions." (For Coffee.) Joint Coffee Trade Publicity Committee of The United States. No. 5,404; Nov. 30; v. 280; p. 1006.

"Will Your Car Do This?" (For Brake-Lining.) Thermoid Rubber Company. No. 5,265; June 29; v. 275; p. 1022.

"Willie Pep." (For Candy Aromints.) The Aromint Manufacturing Company. No. 5,213; Feb. 24; v. 271; p. 685.

"Winter's Chilly Temperature Does Not Affect Nurex." (For Tabbing Compounds.) The Lee Hardware Co. No. 5,306; Aug. 24; v. 277; p. 786.

"With the Pistol Grip and Trigger Switch." (For Portable Electric Drills and Electric Valve-Grinders.) The Black & Decker Manufacturing Co. No. 5,423; Dec. 7; v. 281; p. 204.

"You Can Do This With Nurex." (For Tabbing Compound.) The Lee Hardware Co. No. 5,279; Aug. 3; v. 277; p. 180.

"You'll fuss a pipe like it's the new baby." (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,350; Sept. 14; v. 278; p. 366.

"Your Skill Your Station." (For Miniature Railroad Skill Game.) H. P. Crook, Jr. No. 5,376; Nov. 9; v. 280; p. 389.

"You've got 'em Breaking Right." (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,243; Apr. 13; v. 273; p. 406.

"You Will Not Regret It—If You Condulet It." (For Condulets.) Crouse-Hinds Co. No. 5,292; Aug. 24; v. 277; p. 786.

"'Yourex,' The Silver Plated Knives." (For Silver-Plated Knives.) Associated Silver Company. No. 5,275; Aug. 3; v. 277; p. 180.

"You're Wise-o That You've Been Checking Smoke Sport." (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,314; Aug. 24; v. 277; p. 786.

DISCLAIMERS.

Adding and recording machine. H. Landsiedel. No. 1,225,655; date of patent May 8, 1917; disclaimer filed Apr. 5, 1920; v. 273; p. 413.

Apparatus for drying wood veneer. E. Lambert. No. 1,228,790; date of patent June 5, 1917; disclaimer filed July 23, 1920; v. 277; p. 398.

Automatic telephone switching apparatus. T. G. Martin. No. 14,655 (reissue); date of patent June 10, 1918; disclaimer filed June 30, 1920; v. 276; p. 409.

Automobile-casings, inner tubes, reliners for casings, radiator-hose, and fan-belts, Rubber. Thermoid Rubber Company. Trade-mark No. 103,452; registered Apr. 6, 1915; disclaimer filed Sept. 10, 1920; v. 279; p. 1.

Automobiles. H. L. Ide. No. 861,183; date of patent July 23, 1907; disclaimer filed July 12, 1920; v. 277; p. 184.

Battery hand-lamps. C. Hambuechen. No. 1,289,459; date of patent Dec. 31, 1918; disclaimer filed ———; v. 279; p. 541.

Box-blank machine. J. H. Greenstreet. No. 1,325,719; date of patent Dec. 23, 1919; disclaimer filed July 28, 1920; v. 277; p. 398.

Boxes, Switch-. C. D. Piatt. No. 1,271,216; date of patent July 2, 1918; disclaimer filed Nov. 13, 1920; v. 280; p. 1010.

Carbureter. H. V. J. Jouffret and J. M. Renée. No. 1,002,700; date of patent Sept. 5, 1911; disclaimer filed Apr. 21, 1920; v. 274; p. 208.

Case-hardening Material, Method of making. H. Rodman. No. 1,076,458; date of patent Oct. 21, 1913; disclaimer filed Dec. 20, 1919; v. 270; p. 1.

Condenser and method of making the same. A. Pruessman. No. 1,275,468; date of patent Aug. 13, 1918; disclaimer filed June 15, 1920; v. 276; p. 409.

Condenser, Electrical. W. Dubilier. No. 1,229,915; date of patent June 12, 1917; disclaimer filed Mar. 16, 1920; v. 272; p. 789.

Condenser, Electrical. W. Dubilier. No. 1,229,915; date of patent June 12, 1917; disclaimer filed Nov. 5, 1920; v. 280; p. 395.

Doll. G. Averill. No. 1,269,363; date of patent June 11, 1918; disclaimer filed Jan. 13, 1920; v. 273; p. 190.

Electrical distribution system. J. W. Jepson. No. 1,287,331; date of patent Dec. 10, 1918; disclaimer filed Aug. 20, 1920; v. 278; p. 168.

Fastenings, Machine for inserting. L. A. Casgrain. No. 864,951; date of patent Sept. 3, 1907; disclaimer filed Dec. 20, 1919; v. 270; p. 1.

Hair on the head, Apparatus for waving natural. C. Nessler. No. 1,052,166; date of patent Feb. 4, 1913; disclaimer filed June 9, 1920; v. 275; p. 627.

Lamp socket, Incandescent-electric-. No. 743,206; date of patent Nov. 3, 1903; disclaimer filed Feb. 25, 1920; v. 272; p. 552.

Non-interfering extension or party-line telephone system. T. G. Martin. No. 1,151,554; date of patent Aug. 24, 1915; disclaimer filed June 28, 1920; v. 276; p. 409.

Picture machine, Motion-. L. B. Larsen, O. J. Holmes, and H. G. Larsen. No. 1,283,224; date of patent Oct. 29, 1918; disclaimer filed Sept. 8, 1920; v. 278; p. 548.

Process of making derivatives of petroleum-hydrocarbons. C. Ellis. No. 1,317,868; date of patent Oct. 7, 1919; disclaimer filed July 3, 1920; v. 276; p. 601.

Screen, Metal. H. W. and W. W. Watson. No. 836,475; date of patent Nov. 20, 1906; disclaimer filed Apr. 30, 1920; v. 274; p. 411.

Sheet metal, Machine for cutting. A. G. Scherer. No. 729,964; date of patent June 2, 1903; disclaimer filed Nov. 20, 1920; v. 281; p. 414.

Switch, Electrical. A. P. Ball and F. Zenker. No. 1,291,667; date of patent Jan. 14, 1919; disclaimer filed Nov. 13, 1920; v. 280; p. 593.

Telephone-exchange system, Semi-automatic. F. Lubberger. No. 1,306,824; date of patent, June 17, 1919; disclaimer filed July 15, 1920; v. 277; p. 185.

Telephone system, Two-wire automatic. T. G. Martin. No. 1,249,159; date of patent Dec. 4, 1917; disclaimer filed Nov. 9, 1920; v. 281; p. 414.

Vehicle-bumper support. J. Berg. No. 1,240,167; date of patent Sept. 18, 1917; disclaimer filed June 5, 1920; v. 275; p. 627.

Water, Softening of. R. Gans. No. 1,195,923; date of patent Aug. 22, 1916; disclaimer filed Mar. 20, 1920; v. 272; p. 552.

Wheel, Demountable. T. I. Duffy. No. 1,125,498; date of patent Jan. 19, 1915; disclaimer filed Aug. 20, 1920; v. 278; p. 168.

Digitized by Google

Digitized by Google

CLASSIFICATION OF PATENTS.

NOTE.—First number=class, second number=subclass, third number=patent number.

1— 2: 1,355,457
1,356,927
3: 1,330,396
1,363,744
4: 1,351,060
6: 1,329,787
1,341,821
1,344,157
1,346,157
1,360,384
7: 1,336,251
1,344,441
1,346,415
1,348,850
1,349,662
1,351,231
1,353,989
13: 1,357,534
14: R. 14,951
1,334,742
1,348,161
15: 1,343,561
16: 1,335,563
18: 1,331,129
19: 1,344,781
1,363,180
23: 1,346,715
26: 1,360,090
27: 1,359,574
32: 1,344,305
33: 1,331,624
1,338,013
1,351,152
1,361,942
35: 1,345,876
36: 1,330,900
1,346,247
39: 1,342,415
41: 1,344,290
1,356,523
44: 1,342,110
45: 1,331,228
1,331,619
1,344,715
1,348,544
1,348,711
46: 1,350,371
1,356,894
47: 1,330,283
1,340,705
48: 1,339,307
50: 1,328,424
1,343,289
1,350,826
51: 1,363,357
56: 1,337,212

2— 3: 1,329,996
9: 1,328,078
1,333,395
1,339,129
1,341,451
1,355,859
1,358,791
1,358,823
1,358,824
11: 1,347,782
1,359,361
1,363,243
15: 1,328,884
1,330,364
1,336,614
1,337,698
1,342,168
1,351,816
1,354,047
1,355,044
1,360,395
1,361,384
23: 1,330,315
32: 1,342,924
1,347,528
1,349,472
1,351,893
1,357,263
1,362,343
33: 1,330,789
34: 1,348,754
1,350,192
1,363,727
41: 1,327,476

2— 41: 1,337,017
1,340,381
1,342,009
1,342,906
1,350,169
1,352,704
1,364,058
42: 1,328,958
1,349,029
1,349,879
1,350,848
1,360,362
53: 1,338,783
1,342,166
54: 1,327,062
1,354,352
1,358,589
57: 1,336,577
60: 1,340,351
1,346,320
1,358,852
61: 1,336,248
1,338,098
1,360,715
1,361,820
1,361,892
62: 1,326,915
1,335,505
1,344,580
1,352,027
63: 1,339,274
1,342,106
65: 1,359,999
67: 1,331,725
1,334,062
1,350,609
1,352,563
1,352,705
1,352,706
1,353,181
1,358,544
1,363,871
69: 1,355,920
1,361,559
70: 1,330,708
71: 1,333,398
73: 1,327,408
1,328,086
1,328,675
1,331,027
1,336,279
1,337,224
1,344,004
1,345,920
1,347,180
1,352,422
1,352,074
1,354,467
1,354,684
1,355,009
1,356,392
1,356,402
1,357,077
1,358,060
1,361,220
1,362,027
1,363,038
74: 1,342,054
1,348,021
1,355,207
75: 1,362,013
79: 1,342,032
1,346,683
1,349,987
1,360,687
80: 1,332,301
1,335,524
1,362,525
81: 1,330,631
83: 1,347,359
1,349,187
1,349,486
1,351,349
84: 1,332,829
1,334,625
1,340,755
1,342,796
1,343,623
1,344,248
1,347,957

2— 84: 1,356,928
1,358,505
1,359,495
1,361,296
1,363,783
86: 1,329,777
1,330,152
1,331,394
1,358,387
90: 1,346,733
91: 1,337,989
1,345,823
1,355,798
1,363,381
92: 1,331,413
1,347,050
1,356,168
93: 1,342,566
94: 1,328,545
1,336,339
1,349,359
95: 1,344,011
1,346,448
1,351,731
1,360,840
96: 1,360,530
98: 1,328,439
1,331,754
1,347,400
1,348,327
1,351,579
1,354,868
1,360,287
1,363,209
100: 1,357,006
102: 1,351,685
1,354,241
1,355,181
104: 1,330,406
1,333,792
1,333,872
1,336,763
1,337,879
1,337,957
1,351,028
1,351,303
1,362,461
106: 1,327,528
1,333,708
1,337,397
1,345,933
1,349,206
1,350,776
1,350,868
1,350,869
1,356,542
1,361,289
1,363,408
107: 1,331,701
1,332,883
1,352,968
1,357,620
108: 1,330,299
1,330,582
1,331,142
1,331,876
1,333,314
1,335,486
1,337,506
1,342,132
1,352,838
1,352,975
1,354,892
1,358,551
1,362,537
109: 1,328,823
111: 1,341,679
113: 1,357,067
114: 1,338,283
1,339,154
1,347,338
1,350,535
1,359,502
116: 1,342,277
1,350,494
1,359,393
117: 1,347,046
1,348,950
118: 1,338,187
1,339,286

2— 118: 1,346,014
1,350,712
119: 1,342,897
1,342,898
122: 1,331,320
1,334,823
1,345,223
1,353,480
124: 1,343,166
126: 1,337,901
1,340,276
1,347,188
1,359,973
131: 1,329,119
1,329,619
134: 1,344,075
142: 1,331,557
1,343,035
1,351,257
1,361,320
1,363,107
143: 1,333,410
1,341,120
1,347,705
1,357,828
144: 1,327,625
1,329,025
1,329,329
1,331,483
1,331,799
1,333,958
1,334,129
1,337,883
1,339,116
1,340,915
1,341,224
1,341,313
1,341,317
1,341,506
1,341,716
1,342,010
1,342,188
1,343,038
1,345,728
1,345,763
1,345,779
1,349,976
1,350,020
1,352,944
1,354,289
1,356,251
1,356,364
1,358,940
1,359,802
1,360,390
1,360,391
1,361,560
1,363,981
1,364,002
145: 1,330,996
1,332,357
1,336,303
1,351,380
1,351,437
1,351,537
1,351,687
1,354,207
1,354,957
1,356,105
1,360,158
1,361,155
147: 1,335,027
1,340,117
1,362,272
149: 1,328,237
1,335,517
1,336,009
1,337,036
1,337,420
1,338,022
1,338,505
1,339,731
1,340,701
1,351,491
1,352,156
1,353,759
1,354,433
1,356,498
150: 1,340,455
1,353,228

2— 151: 1,330,572
1,343,371
1,362,916
173: 1,328,586
186: 1,345,547
187: 1,333,466
1,333,687
1,344,998
188: 1,344,709
1,359,573
189: 1,362,556
195: 1,362,280

3— 2: R. 15,006
1,334,834
1,338,243
1,343,297
1,343,298
1,345,661
1,347,947
1,350,743
1,351,789
1,351,955
1,352,682
1,361,062
3: 1,335,781
5: 1,356,251
6: 1,334,861
1,340,239
1,350,518
1,357,074
8: 1,352,942
1,352,943
11: 1,343,617
12: R. 14,939
1,327,938
1,332,485
1,334,689
1,338,155
1,344,357
1,346,092
1,347,004
1,362,156
1,362,793

4— 1: 1,327,768
1,329,840
1,330,377
1,340,126
1,342,843
1,351,368
1,361,829
1,361,887
1,361,972
2: 1,329,058
1,329,487
1,331,270
1,350,974
1,359,985
5: 1,327,262
1,329,109
1,331,137
1,331,706
1,331,707
1,333,269
1,332,660
1,334,136
1,334,173
1,334,793
1,335,715
1,335,763
1,338,638
1,339,690
1,343,261
1,343,890
1,345,920
1,346,362
1,347,318
1,348,662
1,348,790
1,349,683
1,353,230
1,353,559
1,353,804
1,356,278
1,358,600
1,358,841
1,361,814
12: 1,327,042
1,330,588
1,335,380
1,336,249
13: 1,336,774
1,342,474
1,358,060
17: 1,329,932
1,333,638
1,343,730
18: 1,327,275
1,328,445
1,328,900
1,329,339
1,333,073
1,332,557
1,333,747
1,334,137
1,335,095
1,337,643
1,337,730
1,339,585
1,340,611
1,342,505
1,346,255
1,346,311
1,348,372
1,352,058
1,353,749
1,354,199
1,354,496
1,358,222
1,359,892
1,363,085
19: 1,337,829
1,340,680
1,346,388
1,361,385
1,361,746
1,362,751
21: 1,340,567
1,342,716
1,351,854
1,362,290
1,363,459
22: 1,335,056
1,342,016
1,362,061
1,362,062
1,363,027
24: 1,330,909
1,332,793
1,333,826
1,334,407
1,335,946
25: 1,346,252
1,348,518
26: 1,327,428
1,329,994
1,330,312
1,336,034
1,339,593
1,341,485
1,343,892
1,354,838
27: 1,327,295
1,327,866
1,345,568
1,348,250
30: 1,355,155
1,359,535
32: 1,334,986
1,343,287
1,343,830
33: 1,344,531
1,358,933
35: 1,329,405
1,333,433
1,333,617
1,342,046
1,342,287
1,362,366
36: 1,355,086
38: 1,330,828
39: 1,326,919
1 329 124
1,343,406
1,344,442
1,345,609
1,361,712

5— 1: 1,332,933
1,335,961
1,351,480
1,353,260

Digitized by Google

Classification of patents—Continued.

5— 3: 1,327,824
1,334,901
1,343,881
1,347,642
1,349,540
1,359,526
4: 1,327,103
1,327,554
1,334,127
1,336,480
1,338,741
1,340,609
1,349,941
1,352,594
5: 1,328,977
1,330,901
1,332,950
1,334,091
1,335,456
1,335,548
1,335,559
1,347,412
1,348,944
1,350,152
1,350,516
1,359,844
1,360,201
1,363,023
1,363,728
8: 1,329,202
1,330,725
1,333,008
1,339,250
9: 1,339,650
1,347,447
1,355,120
1,357,578
1,358,027
1,360,983
1,363,715
1,363,956
12: 1,328,802
1,332,546
1,341,342
1,343,593
1,343,590
1,345,760
1,348,779
1,356,467
1,359,100
1,361,544
1,363,295
13: 1,328,248
1,333,031
1,333,979
1,335,289
1,335,965
1,339,738
1,339,880
1,341,564
1,343,167
1,347,666
1,349,258
1,349,629
1,350,333
1,351,166
1,352,977
1,355,729
1,355,780
1,356,148
1,356,320
1,356,593
1,359,801
14: 1,335,230
1,342,354
1,349,602
1,349,929
1,353,754
1,360,832
15: 1,343,357
1,349,072
16: 1,336,062
17: 1,334,993
1,337,497
1,348,572
1,357,567
18: 1,331,599
1,344,188
1,350,327
1,353,162
1,353,163
1,354,615
1,359,337
22: 1,344,450
25: 1,327,231
1,328,878
1,355,545
26: 1,341,714
29: 1,337,320
1,343,565
1,345,780
1,346,347
1,347,989

5— 29: 1,351,213
1,352,574
1,355,138
1,363,538
32: 1,330,488
1,355,356
1,357,382
34: 1,358,407
37: 1,337,321
1,340,212
1,340,735
1,344,095
1,346,396
1,352,525
1,358,209
39: 1,332,082
1,335,984
1,340,510
1,346,579
1,349,287
1,353,579
40: 1,329,145
1,338,490
1,340,540
1,344,636
1,347,413
41: 1,333,039
1,334,397
1,336,003
1,336,197
1,340,338
1,341,483
1,341,899
1,344,588
1,347,271
1,348,481
1,351,557
1,353,502
1,356,613
1,357,951
1,359,430
1,361,042
1,361,733
1,361,812
1,363,046
1,363,550
43: 1,327,108
1,329,012
1,330,658
1,336,294
1,348,820
1,349,073
1,353,537
1,363,764
44: 1,332,624
1,347,549
1,349,074
1,350,297
1,363,241
46: 1,327,178
1,343,044
1,346,582
1,354,540
1,359,027
47: 1,334,296
1,337,580
1,360,478
48: 1,333,822
1,342,785
1,346,206
1,349,102
49: 1,334,768
1,344,825
1,344,928
1,348,156
1,359,658
1,363,400
50: 1,330,982
1,330,990
1,331,647
51: 1,349,020
1,349,021
1,349,022
1,349,883
1,351,011
1,352,806
52: 1,344,257
1,350,720
1,353,536
54: 1,349,738
1,349,946
1,352,909
55: 1,332,853
1,334,439
1,335,549
1,336,282
1,337,012
1,337,150
1,337,340
1,337,626
1,337,627
1,337,799
1,341,068

5— 55: 1,344,583
1,346,707
1,348,908
1,350,155
1,351,758
1,359,692
1,360,985
1,361,610
56: 1,344,009
1,347,393
1,347,451
1,348,426
57: 1,334,042
1,336,302
1,354,907
58: 1,333,909
1,336,340
1,339,355
1,340,094
1,345,485
1,354,088
1,364,019
59: 1,345,011
1,362,987
1,363,430
1,363,467
60: 1,346,043
1,349,962
1,357,088
60: 1,357,787
1,359,637
61: 1,346,689
62: 1,362,989
63: 1,334,814
1,335,523
1,359,714
1,360,173
64: 1,328,751
1,336,397
1,357,317
65: 1,343,620
67: 1,330,533
1,341,441
1,345,235
69: 1,337,508
70: 1,338,774
1,344,088
71: 1,336,943
72: 1,327,886
1,327,887
1,333,823
1,340,015
1,340,204
1,345,820
1,349,268
1,351,178
1,354,343
1,356,141
1,356,154
1,360,961
1,363,437
1,363,627
6— 1: 1,341,364
2: 1,336,523
1,344,817
1,348,925
4: 1,357,832
7: 1,363,922
9: 1,353,137
1,361,404
11: 1,328,813
1,360,426
12: 1,354,107
1,363,149
7— 1: 1,338,542
1,341,759
1,345,721
3: 1,329,707
1,334,425
1,344,046
1,344,114
1,344,629
1,346,392
1,348,694
1,351,668
4: 1,330,657
1,341,193
6: 1,354,807
1,356,119
7.1: 1,363,511
8: 1,359,339
9: 1,362,797
11: 1,339,698
13: 1,331,368
1,334,444
1,338,188
1,338,420
1,363,874
15: 1,353,496
1,361,021
16: 1,331,204
1,353,090
17: 1,347,573

7— 17: 1,356,431
8— 1: 1,327,260
1,327,688
1,329,435
1,329,898
1,333,907
1,338,346
1,338,349
1,338,397
1,338,414
1,338,506
1,342,134
1,346,153
1,346,154
1,355,948
1,358,490
1,359,069
1,362,936
1,363,886
1.5: 1,343,355
2: 1,327,394
1,329,284
1,329,824
1,331,909
1,335,171
1,337,306
1,347,721
1,351,089
5: R. 14,824
1,329,117
1,332,675
1,332,974
1,332,982
1,348,167
1,350,600
1,352,014
1,355,797
1,361,139
6: 1,327,862
1,330,092
1,337,673
1,341,037
1,349,265
1,358,456
1,358,907
1,361,811
1,362,879
8: 1,335,502
1,359,178
1,361,833
1,362,658
13: 1,340,246
1,348,431
1,349,867
16: 1,354,081
17: 1,327,659
1,327,661
1,330,246
1,330,247
1,331,744
1,334,526
1,334,527
1,334,528
1,334,529
1,335,098
1,348,724
1,354,850
1,356,059
18: 1,327,200
1,327,657
1,327,658
1,327,660
1,327,662
1,327,663
1,327,756
1,328,987
1,331,743
1,332,488
1,332,489
1,335,159
1,335,925
1,337,877
1,338,217
1,338,218
1,342,711
1,344,120
1,344,121
1,344,122
1,344,788
1,345,341
19: 1,326,958
1,328,435
1,328,615
1,329,166
1,333,481
1,335,097
1,337,009
1,339,184
1,342,190
1,342,935
1,343,260
1,346,833
1,348,974

8— 19: 1,350,740
1,351,621
1,357,118
1,357,522
1,359,043
1,363,223
20: 1,333,465
1,334,843
1,343,138
1,343,139
1,343,804
1,350,685
1,360,224
1,363,358
9— 1: 1,358,479
2: 1,333,109
1,333,248
1,337,781
1,359,798
1,359,806
1,328,746
3: 1,352,318
1,352,770
4: 1,330,410
1,347,240
1,360,755
1,363,166
6: 1,335,072
1,340,441
1,346,869
1,357,027
6.5: 1,361,835
8: 1,339,321
1,357,862
8.3: 1,333,313
9: 1,337,383
1,350,224
1,352,000
11: 1,329,687
1,332,171
1,336,872
1,349,897
13: 1,332,673
15: 1,331,034
1,334,349
1,335,416
1,343,491
16: 1,343,429
1,360,361
17: 1,334,938
1,341,272
1,341,529
1,341,908
1,343,928
1,359,267
18: 1,329,660
1,332,634
1,341,752
1,342,619
1,354,435
1,361,687
19: 1,329,990
20: 1,336,400
1,339,617
1,346,802
1,346,803
1,350,950
1,361,210
1,363,086
21: 1,329,073
1,335,687
1,340,892
1,341,290
1,344,225
1,349,891
1,356,013
22: 1,329,921
1,332,337
1,332,366
1,333,739
1,336,075
1,336,394
1,339,532
1,339,647
1,340,847
1,344,754
1,345,821
1,349,317
1,351,571
1,355,655
1,361,165
1,363,036
23: 1,331,432
1,350,716
24: 1,335,606
1,340,020
1,346,554
1,360,516
25: 1,345,860
1,353,027
26: 1,329,579
1,346,040
1,357,111

9— 45: 1,355,389
10— 1: 1,338,083
1,344,607
1,363,797
12: 1,360,842
16: 1,328,128
21: 1,347,547
27: 1,331,147
1,336,213
1,343,720
44: 1,348,864
58: 1,345,064
61: 1,337,430
76: 1,330,122
1,338,244
78: 1,346,889
86: R. 14,958
1,342,676
89: 1,327,312
1,331,227
1,343,158
1,346,295
1,354,078
1,361,572
91: 1,347,788
92: 1,342,536
1,349,646
95: 1,358,074
96: 1,327,008
1,331,498
1,345,709
1,350,861
1,350,862
98: 1,351,447
100: 1,327,007
1,342,534
1,344,906
1,352,823
1,354,305
107: 1,343,435
114: 1,340,227
120: 1,340,972
1,362,840
120.5: 1,338,863
1,338,864
1,338,865
1,345,567
1,361,400
121: 1,348,403
122: 1,331,973
1,339,473
1,353,024
123: 1,328,279
126: 1,334,232
1,336,575
1,354,316
127: 1,355,248
138: 1,327,497
140: 1,344,113
141: 1,345,425
143: 1,358,075
144: 1,345,710
145: 1,331,138
1,342,754
1,345,744
1,353,048
1,356,867
1,362,799
1,362,800
147: 1,346,235
151: 1,352,253
154: 1,339,223
1,343,503
1,351,884
1,355,240
1,355,854
1,355,855
1,361,098
155: 1,358,553
161: 1,342,742
162: 1,358,910
165: 1,350,715
11— 1: 1,333,123
2: 1,328,767
1,336,944
4: 1,346,799
1,355,445
15: 1,331,577
12— 1: R. 14,812
1,340,143
1,340,825
1,341,183
1,348,340
1,357,023
1,358,695
1,361,822
1,363,308
2: 1,327,196
1,335,779
1,336,875
1,349,192
1,356,540
1,358,137

Digitized by Google

Classification of patents—Continued.

12— 2: 1,358,149
1,360,442
4: 1,333,536
1,333,537
1,346,156
1,346,167
1,346,256
1,356,516
1,356,538
1,356,642
1,356,887
1,362,631
5: 1,356,510
7: 1,332,197
1,363,199
11.1: 1,344,316
1,347,929
12: 1,363,265
14: 1,331,616
1,341,732
1,358,127
1,361,960
1,363,305
15: 1,360,084
17: 1,331,613
1,342,367
1,350,354
18: 1,331,789
20: 1,338,957
1,344,063
21: 1,327,179
22: 1,337,290
23: 1,340,520
27: 1,349,239
1,349,723
30: 1,344,041
32: 1,352,209
1,358,169
33: 1,331,232
1,338,434
1,352,145
1,363,399
34: 1,351,735
38: 1,349,301
41: 1,357,511
42: 1,341,737
1,344,247
1,346,948
1,352,744
1,352,745
1,352,746
1,352,747
1,352,748
47: 1,334,140
1,344,782
1,352,007
1,354,037
1,362,014
48: 1,334,477
1,334,478
50: 1,330,544
1,342,366
1,352,302
51: 1,334,968
1,356,017
53: 1,346,275
54: 1,330,921
1,346,195
55: 1,338,000
57: 1,336,750
62: 1,346,626
63: 1,341,164
64: 1,345,240
66: 1,327,780
1,332,259
1,346,030
67: 1,350,731
67.2: 1,331,797
1,356,536
72: 1,349,863
78: 1,339,591
1,343,379
1,351,064
1,351,065
1,355,471
1,360,990
82: 1,331,782
1,357,591
83.5: 1,332,198
87: 1,350,305
88: 1,328,531
1,333,882
97: 1,349,669
105: 1,335,786
1,351,177
123: 1,350,555
1,353,985
125: 1,327,020
1,336,002
1,355,114
1,355,840
126: 1,337,190
1,359,507

12— 127: 1,330,902
1,361,013
128: 1,330,428
1,332,499
1,346,008
1,346,296
1,353,327
1,356,425
130: 1,331,656
131: 1,332,981
1,340,994
1,343,891
1,356,509
132: 1,335,226
1,349,333
133: 1,350,340
136: 1,338,650
1,346,297
1,359,610
1,359,611
139: 1,327,839
1,330,905
142: R. 14,811
R. 14,882
1,328,322
1,330,449
1,330,879
1,332,230
1,334,159
1,337,990
1,341,746
1,342,469
1,348,941
1,349,296
1,352,738
1,353,308
1,353,877
1,359,636
1,359,847
1,360,277
1,360,278
1,361,961
1,362,627
145: 1,328,314
1,356,539
146: 1,339,160
1,341,059
1,344,503
1,355,486
1,362,835
147: 1,336,784
1,345,023
1,361,053
1,361,941

13— 1: 1,344,252
2: 1,327,484
1,331,333
1,335,619
3: 1,360,875
5: 1,340,044
1,353,337
6: 1,327,533
1,331,170
1,334,262
1,335,305
1,342,771
1,358,907
7: 1,327,845
9: R. 14,874
1,340,691
1,341,168
1,350,661
10: 1,329,828
1,353,295
11: 1,344,843
12: 1,331,000
1,331,001
1,332,911
1,332,913
1,333,334
1,348,031
1,354,358
1,357,586
1,360,015
1,360,132
14: 1,345,207
1,346,396
1,353,022
1,353,435
15: 1,328,212
16: 1,333,230
1,357,087
17: 1,327,724
1,336,007
1,345,206
1,346,550
1,349,179
1,350,439
18: 1,331,526
1,331,659
1,335,264
1,336,046
1,341,603

13— 18: 1,342,772
1,355,463
19: 1,332,425
1,340,063
1,349,142
1,357,124
21: 1,329,973
1,331,332
1,339,825
1,342,714
1,348,089
1,354,644
1,356,740
22: 1,327,612
1,363,778

14— 2: 1,344,646
9: 1,330,771
41: 1,337,187
42: 1,352,450
46: 1,332,179
52: 1,347,121
58: 1,341,332

15— 1: 1,333,619
2: 1,327,943
1,335,388
1,357,641
1,359,193
1,361,068
7: 1,349,845
1,355,278
1,359,165
1,363,141
8: 1,327,110
1,334,655
1,335,198
1,343,137
1,343,895
1,346,044
1,347,949
1,350,403
1,351,535
1,355,366
1,356,903
12: 1,350,791
1,351,805
1,360,309
1,360,485
13: R. 15,010
1,330,502
1,337,819
1,338,665
1,340,931
1,345,198
1,349,680
1,352,369
1,353,429
1,355,650
1,357,060
1,360,926
1,362,900
1,363,282
14: 1,328,339
1,329,474
1,329,604
1,333,226
1,334,240
1,342,488
1,346,643
1,358,310
15: 1,337,477
16: 1,327,288
1,330,313
1,332,101
1,340,283
1,343,466
17: 1,328,237
1,328,521
1,335,637
1,336,349
1,337,199
1,340,133
1,348,605
1,349,964
1,356,180
1,356,272
1,363,502
18: 1,363,901
19: 1,335,654
1,341,526
1,345,353
1,350,514
1,350,520
1,351,638
1,357,913
1,358,369
1,361,873
20: 1,337,503
1,339,767
1,344,784
21: 1,335,116
25: 1,338,586
1,357,406

15— 26: 1,334,716
1,351,311
28: 1,326,929
1,336,044
29: 1,352,346
1,356,080
30: 1,337,856
1,341,091
1,347,648
1,359,104
1,362,426
32: 1,360,307
35: 1,352,228
36: 1,360,077
37: 1,326,900
1,330,525
1,332,897
1,333,663
1,334,770
1,338,821
1,339,700
1,339,894
1,340,040
1,340,093
1,340,760
1,341,916
1,347,185
1,349,261
1,349,262
1,351,159
1,355,978
1,357,354
38: 1,332,156
1,338,424
1,353,184
1,353,984
1,356,134
1,358,597
39: 1,327,807
1,329,980
1,335,689
1,337,173
1,343,713
1,345,939
1,346,536
1,353,780
1,360,292
1,362,269
40: 1,337,056
41: 1,328,164
1,329,596
1,338,917
1,361,708
1,362,660
43: 1,329,961
1,342,182
1,352,837
44: 1,331,477
1,342,492
45: 1,347,750
1,347,921
46: 1,336,284
1,340,775
1,342,537
1,342,971
1,351,723
1,355,482
48: 1,329,944
1,339,745
49: 1,337,998
1,341,803
1,342,211
1,348,681
1,351,371
1,359,690
50: 1,335,896
1,339,065
1,344,050
1,349,517
1,355,026
1,359,733
51: 1,332,266
1,333,146
1,333,741
1,334,911
1,335,451
1,335,671
1,336,604
1,343,223
1,346,913
1,350,415
1,350,638
1,351,720
1,355,385
1,358,195
1,362,533
52: 1,327,757
1,336,390
1,340,115
1,343,240
1,343,570
1,356,353
1,358,523

15— 52: 1,362,937
53: 1,352,122
54: 1,329,826
1,335,616
1,342,036
1,357,063
1,362,811
56: 1,333,021
1,339,026
1,339,398
1,339,830
1,339,925
1,344,112
1,344,198
1,344,436
1,358,399
1,358,076
58: 1,328,667
1,329,410
1,346,585
1,351,136
1,357,666
1,361,969
59: R. 14,020
1,327,146
1,332,640
1,334,209
1,338,002
1,339,216
1,339,241
1,340,794
1,341,590
1,343,310
1,344,990
1,345,167
1,345,330
1,345,541
1,347,201
1,347,028
1,348,443
1,349,118
1,349,989
1,350,751
1,351,218
1,351,862
1,352,504
1,353,741
1,354,127
1,355,646
1,355,728
1,357,091
1,357,869
1,358,804
1,359,443
1,359,797
1,362,175
1,362,801
1,363,490
60: R. 14,786
R. 14,971
1,327,456
1,328,737
1,329,048
1,332,129
1,332,432
1,333,077
1,333,682
1,334,757
1,336,078
1,336,760
1,336,994
1,338,791
1,339,280
1,342,345
1,342,493
1,344,889
1,345,424
1,345,550
1,346,972
1,347,166
1,347,167
1,348,582
1,348,583
1,348,584
1,348,585
1,348,586
1,348,587
1,349,765
1,349,928
1,350,664
1,351,032
1,352,520
1,355,553
1,361,563
61: 1,329,077
1,330,665
1,343,032
1,352,527
63: 1,343,356
66: 1,356,910
69: 1,329,094
1,342,094
1,344,008

15— 69: 1,358,733
71: 1,334,886
72: 1,330,372
1,349,057
1,357,411
1,357,412
1,357,990
1,358,538
1,359,232

16— 3: 1,348,149
4: 1,329,585
1,332,605
1,333,441
1,333,604
1,334,496
1,338,249
1,338,356
1,341,133
1,342,448
1,343,758
1,344,418
1,345,622
1,346,239
1,346,641
1,347,720
1,348,150
1,353,195
1,359,741
5: R. 14,899
1,335,400
1,336,174
1,338,260
1,340,151
1,363,370
1,363,371
1,363,372
7: 1,328,043
1,328,442
1,329,460
1,341,584
1,343,789
1,355,548
1,356,005
1,361,547
9: 1,331,836
1,338,073
1,343,033
1,357,583
10: 1,337,384
1,337,918
1,350,659
1,355,050
11: 1,337,817
1,338,251
1,340,862
1,341,374
1,341,754
1,343,332
1,352,379
1,356,660
16: 1,352,846
17: 1,361,240
19: 1,333,272
20: 1,344,176
1,345,274
1,350,584
25: 1,327,065
1,332,456
1,332,591
1,332,881
1,334,982
1,344,538
1,346,029
1,347,386
1,358,099
26: 1,355,775
27: 1,362,130
46: 1,346,366
1,353,219
1,358,519
48: 1,331,678
1,337,689
1,340,866
1,352,782
1,357,162
49: 1,330,680
1,335,999
1,344,479
1,349,797
1,362,415
1,362,634
70: 1,354,155
72: 1,338,325
73: 1,341,630
1,344,864
1,345,908
1,346,240
76: 1,349,088
77: 1,329,313
1,336,527
1,337,042
1,340,621
1,348,232

Digitized by Google

16— 77: 1,349,037
1,352,875
1,353,506
1,354,079
1,354,469
1,360,008
87: 1,334,081
1,352,980
1,353,218
1,359,144
88: 1,337,763
1,339,479
1,361,304
1,363,390
1,364,034
90: 1,329,326
1,329,327
1,344,454
1,351,062
1,361,845
91: 1,348,758
96: 1,358,573
1,363,900
97: 1,356,118
100: 1,328,961
1,350,134
1,354,196
101: 1,348,552
103: 1,337,273
1,342,443
1,344,855
1,345,314
104: 1,327,431
1,332,504
1,348,844
106: 1,328,583
1,329,059
1,329,827
1,331,874
1,334,563
1,342,237
1,346,903
1,354,508
1,362,837
107: 1,332,768
1,341,063
1,345,524
1,350,360
108: 1,340,430
110: 1,348,813
111: 1,339,799
112: 1,336,780
1,360,284
113: 1,341,690
142: 1,328,874
1,356,039
151: 1,327,920
1,333,598
1,333,895
1,337,344
1,356,566
1,358,543
156: 1,357,771
159: 1,340,476
163: 1,327,045
1,330,647
1,358,710
164: 1,328,775
1,342,500
1,345,294
165: 1,339,805
1,341,384
1,353,784
169: 1,328,510
171: 1,340,604
1,354,106
173: 1,338,908
17— 6: 1,361,094
1,363,505
7: 1,361,552
10: 1,326,905
1,328,148
1,328,551
1,331,932
1,335,133
1,337,375
1,353,981
1,360,490
1,361,255
1,361,353
1,362,396
1,362,510
11: 1,327,073
1,328,637
1,329,529
1,329,724
1,329,725
1,332,401
1,336,524
1,336,887
1,347,639
1,350,435
1,352,596
17— 11: 1,357,640
12: 1,334,694
13: 1,357,075
14: 1,339,901
1,342,515
1,356,165
18: 1,347,237
19: 1,328,226
1,346,096
20: 1,330,461
1,330,775
1,332,135
1,337,955
1,350,164
24: 1,328,016
1,330,292
1,335,036
1,337,596
1,339,590
1,339,623
1,340,219
1,346,996
1,350,048
1,350,049
1,350,162
1,352,658
1,353,803
1,356,284
1,360,064
1,361,998
1,362,855
1,363,741
25: 1,353,013
27: 1,357,069
30: 1,333,424
1,336,472
1,338,452
1,349,916
1,350,632
1,354,811
1,356,169
1,356,941
1,356,942
31: 1,333,943
1,352,108
18— 1: 1,329,407
1,335,705
1,336,519
1,344,237
1,362,717
2: 1,330,595
1,332,812
1,337,532
1,337,936
1,340,234
1,340,776
1,341,422
1,342,114
1,343,460
1,344,541
1,345,426
1,346,706
1,352,999
1,354,452
1,355,305
1,355,885
1,356,691
1,357,217
1,357,948
1,358,702
1,359,265
1,363,462
1,363,802
3: 1,330,450
3.5: 1,342,450
1,343,408
1,363,602
4: 1,330,054
5: 1 328,887
1,335,475
1,344,270
1,348,669
1,352,457
1,357,342
1,357,343
1,358,712
5.3: 1,327,722
1,345,115
5.4: 1,357,206
6: 1,327,330
1,330,849
1,339,736
1,346,158
1,348,228
1,349,688
1,354,198
8: 1,337,258
1,357,947
11: 1,355,784
12: 1,338,120
1,344,445
1,350,722
1,361,346
18— 12: 1.362,093
13: 1,340,463
1,356,891
14: 1,333,047
15: 1,347,226
16: 1,346,876
1,358,903
17: 1,332,963
1,334,588
1,338,844
1,346,085
1,346,232
1,350,696
1,354,569
1,355,236
1,358,068
1,359,487
1,361,764
1,362,169
1,362,189
18: R. 14,852
R. 14,918
1,327,307
1,330,985
1,331,982
1,332,560
1,333,062
1,336,220
1,337,031
1,338,233
1,339,151
1,340,641
1,340,642
1,340,973
1,342,916
1,344,847
1,349,039
1,349,093
1,353,042
1,356,062
1,357,984
1,358,381
1,358,770
1,358,888
1,359,562
1,360,937
1,360,962
1,360,982
19: 1,338,470
1,349,560
1,352,160
1,353,339
1,358,289
1,363,095
26: 1,341,670
28: 1,362,094
1,362,095
33: 1,347,205
1,346,483
1,353,942
34: 1,329,872
1,333,021
1,340,440
1,361,208
35: 1,335,105
1,337,930
38: 1,327,841
1,334,029
1,335,783
1,349,424
1,349,796
1,354,595
1,356,597
1,357,617
1,358,120
1,358,124
1,358,820
1,362,594
41: 1,349,013
42: 1,328,351
1,343,425
1,349,721
1,350,105
1,351,156
1,353,477
1,354,227
1,354,425
1,354,734
1,362,729
43: 1,331,146
1,332,046
1,346,947
1,347,213
1,354,754
1,357,238
1,363,150
45: 1,327,264
1,328,676
1,329,208
1,330,784
1,330,785
1,335,101
1,335,353
18— 45: 1,337,707
1,337,910
1,338,569
1,343,504
1,344,313
1,344,702
1,346,231
1,348,612
1,350,117
1,352,374
1,353,158
1,353,383
1,354,459
1,356,173
1,356,596
1,356,721
1,360,736
1,361,827
1,361,840
1,363,109
46: 1,342,970
1,360,059
47: 1,329,312
1,353,152
47.5: 1,341,979
1,350,825
1,360,356
1,363,264
48: 1,332,045
1,353,225
1,357,147
48.3: 1,328,371
1,347,668
1,355,791
1,358,577
48.4: 1,334,215
1,353,522
50: 1,329,524
1,332,025
1,340,965
1,343,377
1,357,845
1,360,486
52: 1,335,926
1,340,777
53: 1,337,802
1,342,457
1,342,458
1,343,224
1,345,904
1,349,423
1,350,798
1,350,824
1,354,123
1,356,495
54: 1,341,745
1,357,946
55: 1,327,851
1,330,444
1,332,847
1,333,188
1,339,134
1,342,067
1,343,191
1,343,575
1,349,372
1,355,206
1,358,297
1,358,394
56: 1,326,991
1,339,789
1,346,848
1,352,161
1,352,170
1,352,418
1,359,919
1,360,804
1,362,640
57: 1,348,459
1,350,274
1,351,652
59: 1,330,791
1,331,755
1,332,169
1,333,094
1,336,911
1,338,314
1,340,041
1,346,877
1,348,978
1,349,912
1,354,992
1,355,254
1,355,781
1,358,676
1,358,677
1,359,594
1,360,165
60: 1,361,763
1,345,377
61: 1,341,528
1,361,456
19— 2: 1,337,470
19— 3: 1,351,653
6: 1,328,535
1,329,904
1,347,331
1,351,076
1,351,077
7: 1,359,029
1,362,446
8: 1,328,904
1,335,621
1,351,678
1,355,019
1,361,508
9: 1,332,910
1,340,201
1,346,828
1,351,858
1,352,966
1,355,518
1,356,545
1,357,579
1,358,634
1,363,420
10: 1,336,402
1,337,967
15: 1,327,696
1,333,098
1,338,651
1,339,888
1,349,448
1,363,094
16: 1,338,329
22: 1,346,037
25: 1,342,713
1,351,749
1,353,226
1,356,275
26: 1,345,203
1,362,768
31: 1,352,852
33: 1,362,603
20— .05: 1,329,899
0.5: 1,330,709
1,349,980
1,353,998
1,358,080
1,359,048
1: 1,336,471
1,347,815
1,350,289
1,353,798
1,353,956
1,357,022
1,362,069
1.2: 1,363,273
1.4: 1,330,118
1,330,821
1,330,847
1,331,195
1,331,770
1,340,890
1,340,922
1,345,985
1,347,284
1,350,501
1,354,720
1,360,461
1,361,357
1.12: 1,356,709
1.13: 1,344,617
1,349,964
1.42: 1,341,533
2: 1,337,745
1,337,746
1,345,164
1,350,478
1,350,493
1,354,753
1,362,238
1,362,764
1,363,379
3: 1,329,731
4: 1,346,459
1,355,595
1,357,818
5: 1,339,915
6: 1,339,425
1,342,610
1,343,234
1,350,349
8: 1,334,222
1,344,181
1,352,695
10: 1,356,675
1,363,418
11: 1,327,653
1,329,453
1,347,172
1,355,756
1,359,624
12: 1,332,007
1,344,532
1,348,721
20— 12: 1,363,770
13: 1,354,024
14: 1,335,747
1,345,544
1,359,209
15: 1,343,168
1,349,477
16: 1,329,340
1,329,427
1,335,838
1,338,027
1,340,084
1,345,392
1,352,100
19: 1,328,633
1,332,956
1,342,751
1,346,268
1,348,125
1,353,301
1,355,692
1,356,192
1,358,356
20: R. 14,893
1,341,041
1,349,398
1,349,399
1,351,229
1,351,844
1,352,606
1,357,299
1,360,525
21: 1,355,189
1,355,496
1,355,603
1,363,177
22: 1,337,261
1,343,416
1,348,237
1,350,622
1,353,176
1,354,562
1,356,003
1,360,777
24: 1,332,989
1,339,790
1,356,257
26: 1,345,755
27: 1,347,283
28: 1,340,506
1,357,106
29: 1,356,456
30: 1,332,311
1,341,397
1,359,344
31: 1,330,031
1,355,874
32: 1,336,068
1,350,919
1,352,692
1,357,326
1,359,033
34: 1,357,407
36: 1,332,441
38: 1,334,442
1,340,161
1,346,736
39: 1,349,731
40: 1,340,069
1,344,529
1,345,147
1,348,647
1,350,147
1,360,481
40.5: 1,327,321
1,330,518
1,344,010
1,346,348
1,361,193
42: R. 14,993
1,330,034
1,331,342
1,334,412
1,341,366
1,341,434
1,343,520
1,352,971
1,356,095
1,359,095
1,361,913
43: 1,332,361
1,358,121
45: 1,351,316
48: 1,345,915
1,346,663
49: 1,331,837
1,351,315
50: 1,342,411
51: 1,331,726
1,361,163
52: 1,327,594
1,330,714

Digitized by Google

Classification of patents—Continued.

20— 52: 1,357,569
1,363,937
52.1: 1,336,145
52.3: 1,359,221
53: 1,331,821
1,332,503
1,345,325
1,348,700
1,363,552
56: 1,346,800
1,349,887
56.1: 1,360,393
56.4: 1,337,565
1,344,610
1,356,855
1,358,988
62: 1,340,252
1,358,448
64: 1,348,396
65: 1,345,409
67: 1,339,775
68: 1,342,050
1,343,304
1,345,832
1,354,729
1,355,582
69: 1,329,003
1,330,009
1,335,395
1,335,920
1,337,394
1,338,403
1,341,632
1,343,324
1,343,904
1,345,391
1,345,967
1,347,672
1,348,127
1,348,305
1,352,375
1,352,545
1,352,732
1,352,879
1,357,373
1,361,657
1,363,354
70: 1,346,742
71: 1,330,932
1,333,896
1,349,521
1,356,953
72: 1,330,401
1,350,136
79: 1,328,575
1,338,332
1,344,310
81: 1,331,121
1,330,290
81.6: 1,328,500
83: 1,329,390
84: 1,334,062
1,337,088
85: 1,328,705
1,332,385
86: 1,336,141
87: 1,327,025
1,328,706
1,332,452
1,336,383
1,336,672
89: 1,343,216
91: 1,356,764
1,363,413
92: 1,334,121
1,334,553
1,335,554
1,336,193
1,342,979
1,343,309
1,347,773
1,352,335
1,354,549
1,357,626
94: 1,346,131
95: 1,355,657
97: 1,350,686
99: 1,360,623
113: 1,340,045
405: 1,354,374
21— 5: 1,346,202
8: 1,329,960
1,330,110
1,330,833
1,331,421
1,331,513
1,334,147
1,334,345
1,334,644
1,334,711
1,334,807
27: 1,342,724
30: 1,349,704

21— 31: 1,327,227
1,333,636
1,337,271
1,338,471
1,341,465
1,345,648
1,353,511
1,357,997
1,363,598
36: 1,333,846
1,343,258
43: 1,328,105
1,333,924
46: 1,329,047
57: 1,343,272
62: 1,327,558
69: 1,327,310
1,327,607
1,328,052
1,328,067
1,329,210
1,329,327
1,330,096
1,331,917
1,333,019
1,334,011
1,334,013
1,334,493
1,336,254
1,336,334
1,336,335
1,336,336
1,336,337
1,336,338
1,337,869
1,338,177
1,338,410
1,338,936
1,339,439
1,339,913
1,340,220
1,340,997
1,340,773
1,340,961
1,341,308
1,341,703
1,345,759
1,346,329
1,346,963
1,346,964
1,346,965
1,347,837
1,348,199
1,348,533
1,349,035
1,350,617
1,352,146
1,353,394
1,353,819
1,354,221
1,354,310
1,355,233
1,355,505
1,357,615
1,357,723
75: 1,338,138
1,342,119
76: 1,332,701
1,333,234
1,333,632
1,334,302
1,350,521
78: 1,327,871
1,334,208
1,335,971
1,346,197
1,347,362
79: 1,330,936
1,350,778
1,353,949
92: 1,345,125
93: 1,333,338
105: 1,331,137
1,332,506
1,332,915
1,335,290
108: 1,348,109
148: 1,328,383
150: 1,327,556
1,328,643
1,329,307
1,329,316
1,329,769
1,330,119
1,330,253
1,330,955
1,331,080
1,333,175
1,336,387
1,336,832
1,336,871
1,336,876
1,337,787

21— 150: 1,338,059
1,338,060
1,338,402
1,339,298
1,339,786
151: 1,339,376
152: 1,334,726
153: 1,342,279
161: 1,346,627
162: 1,327,253
189: 1,332,123
1,342,254
207: 1,331,724
1,341,093
209: 1,331,945
1,336,074
1,336,791
1,343,658
211: 1,331,839
1,335,037
212: 1,336,149
1,338,299
213: 1,331,575
1,360,921
214: 1,344,678
215: 1,327,867
1,332,261
1,333,366
1,347,018
1,349,406
217: 1,333,074
1,342,493
218: 1,333,055
227: 1,332,273
1,338,105
230: 1,334,064
22— 3: 1,330,942
1,332,531
1,332,532
1,334,457
1,341,557
1,341,608
9: 1,340,658
10: 1,347,081
1,350,564
1,363,911
12: 1,349,383
13: 1,331,736
1,347,080
19: 1,328,582
1,332,470
20: 1,337,268
1,343,386
22: 1,338,162
25: 1,351,020
26: 1,337,780
31: 1,343,335
32: 1,329,425
1,339,354
1,343,940
1,352,295
1,357,380
1,361,172
33: R. 14,968
1,343,835
1,351,871
36: 1,335,641
1,335,642
1,337,585
1,351,227
1,360,996
40: 1,329,459
45: 1,343,836
1,344,680
1,347,119
1,354,124
48: 1,328,433
1,360,147
57: 1,328,236
1,354,732
58: 1,344,294
62: 1,354,975
64: 1,347,552
65: 1,329,179
1,329,296
1,329,754
1,340,337
1,344,409
1,347,582
1,349,416
1,351,766
1,351,767
1,352,523
1,362,821
67: 1,358,648
69: 1,332,940
1,338,622
1,352,080
70: 1,327,697
1,331,264
1,332,842
71: 1,346,077
73: 1,343,016

22— 73: 1,362,878
74: 1,329,999
75: 1,350,352
76: 1,342,127
77: 1,330,853
1,360,771
79: 1,336,707
1,337,256
1,340,422
80: 1,326,936
82: 1,357,599
83: 1,344,688
1,347,984
85: 1,338,001
87: 1,355,204
88: 1,334,029
1,356,715
89: 1,332,939
92: 1,342,428
1,349,122
93: 1,359,563
95: 1,352,026
96: 1,335,565
1,354,590
97: 1,351,584
100: 1,345,161
102: 1,338,519
105: 1,339,642
106: 1,345,100
110: 1,333,971
111: 1,335,564
1,335,818
1,347,574
112: 1,327,224
1,330,086
1,339,133
1,363,865
113: 1,334,030
114: 1,358,905
115: 1,333,212
117: 1,329,021
123: 1,331,769
1,332,975
1,341,938
1,343,128
1,344,083
1,351,247
1,353,813
1,358,578
1,358,821
1,358,822
128: 1,358,911
130: 1,328,852
1,358,435
1,359,196
134: 1,347,168
136: 1,351,295
1,356,712
1,356,714
139: 1,335,685
1,336,459
1,346,369
144: 1,351,346
147: 1,332,905
1,332,906
1,334,036
149: 1,333,305
153: 1,331,920
1,360,655
157: 1,347,309
1,354,913
158: 1,349,829
1,358,906
162: 1,332,878
1,361,188
169: 1,347,575
173: 1,336,212
1,348,982
177: 1,336,260
180: 1,336,259
184: 1,327,689
1,357,388
186: 1,346,333
188: R. 14,828
1,338,141
1,359,156
1,363,384
189: 1,331,816
192: 1,356,713
193: 1,333,502
1,335,509
1,345,162
1,353,472
1,357,503
195: 1,330,660
196: 1,362,809
197: 1,330,661
198: 1,343,941
1,344,737
200: 1,331,259
1,343,017
1,350,244
203: 1,333,071

22— 203: 1,341,461
1,346,199
1,348,158
1,355,255
1,359,719
1,360,484
204: 1,333,337
1,335,862
1,358,190
206: 1,333,593
1,339,096
1,359,459
1,329,295
1,331,919
1,333,754
1,336,768
209: 1,350,972
1,354,286
215: 1,351,051
216: 1,327,987
1,336,234
1,347,728

23— 1: 1,329,273
1,331,104
1,331,105
1,332,195
1,332,581
1,334,384
1,335,257
1,335,743
1,337,141
1,337,561
1,338,417
1,338,418
1,339,494
1,339,519
1,340,290
1,341,462
1,342,024
1,342,721
1,344,905
1,347,158
1,347,159
1,347,518
1,348,736
1,348,873
1,348,874
1,349,919
1,352,176
1,352,655
1,353,448
1,355,357
1,355,384
1,356,029
1,356,030
1,357,000
1,361,416
1,361,940
1,362,418
1,363,918
3: 1,328,096
1,328,210
1,329,158
1,329,183
1,329,457
1,330,490
1,332,106
1,332,335
1,332,537
1,332,985
1,333,850
1,333,905
1,334,054
1,336,043
1,337,975
1,338,967
1,340,346
1,340,838
1,341,115
1,342,539
1,345,047
1,351,129
1,354,736
1,358,950
5: 1,338,322
10: 1,327,029
1,331,645
1,331,646
1,332,138
1,332,542
1,334,474
1,335,348
1,336,974
1,338,654
1,341,114
1,341,423
1,341,734
1,349,756
1,350,858
1,350,932
1,351,755
1,354,472
1,359,114

23— 10: 1,360,312
1,360,324
1,360,734
11: 1,333,029
1,338,678
1,339,431
1,342,148
1,344,664
1,360,624
13: 1,327,536
1,328,614
1,328,938
1,329,072
1,329,380
1,329,652
1,329,721
1,329,722
1,329,747
1,330,016
1,330,032
1,330,131
1,330,495
1,330,738
1,331,257
1,331,742
1,332,018
1,332,118
1,332,114
1,332,115
1,332,439
1,333,020
1,334,720
1,336,157
1,338,277
1,335,482
1,336,425
1,336,506
1,336,957
1,337,019
1,337,191
1,337,192
1,337,239
1,337,750
1,338,428
1,338,473
1,338,831
1,339,242
1,339,706
1,340,649
1,340,888
1,340,905
1,341,288
1,341,361
1,342,519
1,342,834
1,342,956
1,343,390
1,343,401
1,343,725
1,343,897
1,343,918
1,343,927
1,344,018
1,344,035
1,345,220
1,346,148
1,347,350
1,347,610
1,348,068
1,348,175
1,348,227
1,348,462
1,348,933
1,348,977
1,349,417
1,349,445
1,349,707
1,349,750
1,350,090
1,350,128
1,350,239
1,350,959
1,351,091
1,351,489
1,352,175
1,352,192
1,352,193
1,352,399
1,353,532
1,354,279
1,354,561
1,354,649
1,354,806
1,354,818
1,354,824
1,355,642
1,356,569
1,356,756
1,356,806
1,356,907
1,357,089
1,357,183
1,357,196

Digitized by Google

Classification of patents—Continued.

23— 13: 1,357,690
1,357,973
1,358,014
1,358,161
1,358,383
1,358,626
1,359,011
1,359,257
1,359,640
1,359,652
1,359,782
1,360,581
1,361,324
1,361,325
1,361,735
1,362,172
1,362,237
1,363,096
1,363,428
20: 1,344,830
21: 1,328,082
1,328,342
1,329,397
1,330,136
1,330,435
1,332,100
1,332,419
1,332,460
1,335,891
1,337,665
1,337,903
1,338,357
1,344,770
1,346,106
1,346,967
1,349,393
1,352,174
1,352,178
1,352,179
1,352,180
1,352,181
1,352,182
1,354,574
1,354,733
1,356,885
1,359,080
1,360,117
1,360,785
1,363,393
22: 1,327,164
1,327,781
1,327,782
1,328,416
1,328,417
1,328,418
1,329,369
1,330,573
1,330,674
1,334,940
1,334,989
1,335,949
1,338,234
1,338,235
1,341,110
1,341,889
1,343,400
1,343,443
1,343,508
1,344,705
1,345,034
1,346,002
1,346,365
1,349,113
1,349,134
1,349,446
1,349,447
1,350,089
1,350,091
1,351,693
1,352,211
1,353,283
1,354,642
1,354,727
1,355,381
1,355,588
1,355,794
1,357,025
1,357,873
1,359,097
1,360,046
1,363,091
1,363,092
24: 1,326,947
1,326,973
1,327,714
1,328,258
1,329,214
1,329,272
1,330,074
1,330,288
1,330,624
1,331,712
1,332,028

23— 24: 1,332,203
1,332,680
1,332,780
1,333,694
1,334,033
1,334,641
1,334,642
1,336,182
1,336,709
1,336,759
1,336,952
1,337,253
1,337,317
1,338,040
1,338,297
1,338,353
1,338,354
1,338,681
1,338,979
1,339,310
1,339,675
1,339,947
1,340,603
1,340,696
1,343,715
1,343,716
1,344,673
1,344,850
1,344,851
1,344,950
1,344,952
1,345,373
1,345,589
1,345,649
1,347,071
1,347,083
1,347,801
1,348,722
1,349,802
1,349,947
1,350,092
1,350,408
1,350,820
1,351,888
1,351,990
1,352,082
1,352,216
1,354,105
1,355,098
1,355,100
1,355,299
1,356,137
1,357,138
1,356,877
1,357,450
1,357,457
1,357,482
1,358,324
1,358,750
1,358,751
1,358,851
1,359,071
1,359,099
1,360,994
1,361,128
1,361,974
1,362,355
28: 1,327,396
1,329,322
1,329,323
1,330,003
1,331,903
1,331,904
1,335,161
1,338,698
1,338,709
1,339,686
1,345,323
1,347,160
1,352,177
1,355,105
1,363,392
29: 1,332,525
1,335,200
30: 1,357,168
31: 1,341,187
1,347,578
1,353,483
1,361,445
1,363,970
34: 1,344,951
42: 1,340,490

24— 1: 1,339,520
1,354,805
3: 1,327,701
1,328,644
1,327,534
1,330,208
1,332,014
1,333,539
1,334,394
1,334,617
1,334,878

24— 3: 1,335,333
1,336,083
1,338,702
1,339,213
1,341,811
1,341,930
1,345,357
1,346,513
1,348,718
1,349,468
1,351,132
1,354,926
1,356,018
1,356,902
1,362,406
1,363,709
1,363,765
5: 1,359,381
7: 1,329,149
1,331,178
9: 1,336,744
10: 1,333,765
1,337,963
11: 1,328,076
1,334,332
1,338,933
1,339,359
1,344,897
1,347,090
1,350,412
1,356,143
1,358,338
1,358,511
1,362,263
12: 1,327,762
1,354,718
13: 1,328,645
1,328,646
1,344,821
15: 1,329,908
16: 1,327,591
1,338,875
1,339,317
17: 1,331,699
1,347,861
1,349,857
1,360,969
18: 1,328,869
1,330,659
1,334,512
1,334,624
1,336,168
1,350,860
1,352,357
1,353,611
1,353,717
1,357,134
1,358,475
1,358,476
1,358,477
1,359,383
1,360,920
19: 1,330,737
1,340,937
1,340,938
1,356,126
1,356,904
1,357,870
1,359,229
1,362,784
1,363,329
21: 1,332,645
1,351,991
22: 1,353,859
23: 1,328,698
1,348,485
24: 1,351,344
30.5: 1,351,958
1,356,133
31: 1,330,239
33: 1,327,798
1,341,359
1,341,973
1,348,747
1,355,766
1,361,083
35: 1,328,426
38: 1,335,830
40: 1,336,146
1,356,176
1,355,567
49: 1,336,618
1,358,465
56: 1,353,969
58: 1,354,890
60: 1,333,362
1,354,877
1,363,888
61: 1,342,102
1,362,828
64: 1,361,149
66: 1,329,661
1,336,834

24— 66: 1,340,180
1,342,504
1,350,203
1,358,515
1,359,243
67: 1,332,566
1,345,336
1,361,917
1,363,881
68: 1,330,357
1,332,719
1,335,656
1,336,679
1,337,534
1,342,616
1,348,168
1,354,194
1,362,314
69: 1,337,419
1,346,979
1,349,702
1,352,339
1,363,994
70: 1,362,738
71: 1,338,341
1,362,459
71.1: 1,349,108
73: 1,327,434
1,330,341
1,330,903
1,331,292
1,333,038
1,334,133
1,336,383
1,337,846
1,342,631
1,343,096
1,346,795
1,352,243
1,353,614
1,355,169
1,355,997
1,359,440
1,361,132
1,361,550
1,361,796
1,362,540
1,362,923
1,364,018
76: 1,346,648
77: 1,329,085
79: 1,339,309
81: 1,333,794
1,339,073
1,345,216
1,345,713
1,346,393
1,346,777
1,347,983
1,347,999
1,349,071
1,350,063
1,350,569
1,351,613
1,352,139
1,352,799
1,354,661
1,356,768
1,357,669
1,358,244
1,358,902
1,359,612
1,359,981
1,360,650
1,361,056
1,361,760
83: 1,336,156
1,360,488
84: 1,328,621
1,359,595
1,361,624
85: 1,348,083
87: 1,330,968
1,337,073
1,341,684
1,350,606
1,355,431
88: 1,336,692
1,340,858
1,354,159
1,357,918
1,360,385
90: 1,329,791
1,334,574
1,346,352
1,362,434
90.5: 1,353,525
1,360,129
91: 1,349,649
94: 1,331,401
96: 1,343,080
97: 1,333,228
1,336,880

24— 97: 1,346,660
98: 1,359,038
99: 1,348,985
100: 1,348,450
100.5: 1,334,656
1,353,439
101: 1,334,907
1,335,164
1,336,147
1,342,003
1,345,191
1,348,958
1,349,825
1,349,872
1,352,754
1,353,444
1,353,739
102: 1,333,018
1,334,348
1,335,535
1,335,703
1,337,889
1,339,314
1,339,713
1,341,130
1,350,222
1,352,095
1,352,908
1,353,085
1,353,109
1,355,651
1,358,291
1,359,684
1,362,402
103: 1,331,611
1,334,239
1,340,073
1,347,759
1,362,786
104: 1,327,719
1,328,432
1,348,629
105: 1,346,039
1,349,761
1,355,162
106: 1,339,234
1,348,699
108: 1,336,243
109: 1,340,390
111: 1,355,623
114: 1,353,725
1,356,906
116: 1,360,859
117: 1,330,256
1,331,308
1,331,914
1,335,471
1,348,475
1,362,970
120: 1,363,693
123: 1,336,482
1,343,177
1,346,487
1,355,857
124: 1,352,091
125: 1,338,062
126: 1,341,438
127: 1,329,746
128: 1,350,718
129: 1,344,589
130: 1,344,224
1,357,121
131: 1,349,503
1,356,316
1,357,722
132: 1,339,419
1,346,696
133: 1,339,420
1,358,047
1,363,002
134: 1,330,645
1,331,203
1,334,990
1,337,159
1,340,851
1,345,292
1,359,051
1,360,458
1,361,643
1,362,905
135: 1,340,730
1,344,476
1,352,810
1,359,013
136: 1,333,375
1,355,004
1,360,938
137: 1,330,205
1,335,331
1,348,102
1,349,224
1,356,785
1,357,233

24— 137: 1,363,592
138: 1,330,211
1,330,320
1,343,496
1,362,909
139: 1,330,147
1,337,434
1,340,095
1,342,755
1,344,254
1,347,429
1,348,465
1,355,376
1,359,657
1,362,152
140: 1,351,728
1,357,694
1,358,647
1,358,753
141: 1,334,163
143: 1,340,669
1,341,940
1,349,827
1,353,140
1,364,044
145: 1,330,615
146: 1,345,621
1,363,523
147: 1,359,018
152: 1,336,273
153: R. 14,974
1,337,598
1,355,287
155: 1,328,954
1,331,438
1,343,736
1,348,120
1,349,309
1,356,225
1,356,668
1,357,035
1,360,952
156: 1,328,965
1,331,943
1,334,277
1,353,093
157: 1,337,114
1,338,280
1,348,314
1,359,008
158: 1,360,794
159: 1,334,661
1,340,533
160: 1,361,011
161: 1,348,865
1,354,094
1,354,631
163: 1,333,421
1,353,331
168: 1,340,302
1,347,827
170: 1,331,291
1,338,535
1,338,536
1,347,171
1,350,207
1,354,771
1,357,662
1,358,991
1,360,937
1,361,647
1,362,668
1,363,731
171: 1,337,965
1,344,955
1,363,318
173: 1,345,956
174: 1,340,792
178: 1,333,260
179: 1,341,315
183: 1,341,314
191: 1,328,617
1,337,181
1,357,751
1,360,123
1,360,360
194: 1,340,303
1,340,821
1,341,648
1,347,324
1,350,076
1,352,937
1,354,450
1,355,621
1,356,517
197: 1,330,339
198: 1,344,652
1,357,483
1,361,921
200: 1,332,628
201: 1,328,945
1,354,260
1,360,678

Digitized by Google

Classification of patents—Continued.

24— 203: 1,343,942
1,348,703
1,363,532
205: 1,340,187
1,348,392
1,353,424
206: 1,340,284
1,344,816
208: 1,352,374
1,337,785
211: 1,337,938
1,350,314
1,357,795
1,360,386
1,363,291
212: 1,363,244
213: 1,335,868
1,360,884
214: 1,337,117
1,337,118
1,338,883
1,342,161
1,351,072
215: 1,337,115
1,337,116
216: 1,335,366
1,341,043
1,360,459
217: 1,337,119
1,341,600
1,341,771
1,348,011
1,353,110
1,353,111
1,355,029
218: R. 14,975
1,335,365
1,342,738
1,343,506
1,345,267
1,349,569
1,350,785
1,352,153
1,358,098
1,361,096
1,362,690
219: 1,335,220
220: 1,332,754
1,360,914
221: 1,330,159
1,334,845
1,335,363
1,354,506
1,357,186
1,360,613
222: R. 14,892
1,354,095
224: 1,330,426
1,335,449
1,346,657
1,363,367
225: 1,328,206
1,331,106
226: 1,328,628
1,334,230
1,340,334
1,353,930
1,359,062
227: 1,334,598
228: 1,333,483
1,347,604
1,363,591
229: 1,332,697
230: 1,347,515
1,352,591
1,353,772
1,354,933
1,361,645
1,362,656
230.5: 1,363,401
231: R. 14,851
1,332,884
1,337,577
1,339,986
1,340,048
232: 1,346,906
1,348,811
1,350,033
1,351,298
1,363,516
234: 1,329,071
236: 1,329,923
1,334,322
1,338,686
239: 1,347,725
1,354,485
240: 1,343,939
241: 1,332,784
1,333,582
1,334,830
1,336,666
1,339,004
1,341,924

24— 241: 1,344,778
1,346,046
1,347,369
1,350,787
1,350,952
1,352,982
1,353,026
1,353,134
1,353,676
1,356,810
1,358,708
1,362,512
1,363,873
242: 1,328,193
243: 1,332,442
1,348,795
1,356,458
244: 1,348,666
245: 1,327,959
1,330,794
1,332,759
1,333,417
1,336,312
1,337,131
1,338,733
1,340,985
1,346,702
1,346,911
1,347,911
1,348,444
1,355,416
1,357,574
1,361,793
246: 1,358,384
1,360,425
1,363,950
247: 1,332,955
1,362,298
248: 1,327,673
1,341,210
1,342,141
1,343,301
1,353,912
1,358,943
1,363,655
249: 1,328,602
1,328,648
1,329,394
1,332,086
1,343,548
1,344,728
1,354,087
250: 1,329,484
1,330,769
251: 1,331,406
252: 1,330,646
1,347,135
1,351,343
1,358,560
253: 1,344,500
1,350,612
1,355,675
1,357,151
1,360,989
255: 1,356,491
256: 1,351,772
1,362,517
257: 1,329,186
1,349,274
1,350,654
1,362,996
258: 1,336,129
1,348,045
259: 1,327,761
1,329,422
1,335,579
1,340,070
1,342,048
1,342,698
1,351,551
260: 1,334,228
1,343,514
261: 1,328,504
1,332,287
1,334,233
1,337,607
1,340,745
1,344,473
1,345,183
1,346,608
1,355,148
1,362,136
263: 1,344,556
1,357,576
264: 1,333,075
265: 1,350,508
1,356,800
266: 1,327,078

25— 1: 1,339,535
1,339,712
1,344,099
1,347,973
2: 1,341,798

25— 2: 1,350,034
3: 1,342,053
1,351,929
7: 1,361,439
11: 1,358,419
12.1: 1,342,208
13: 1,331,285
1,331,289
14: 1,337,871
1,338,799
1,346,786
1,353,917
15: 1,335,466
20: 1,340,929
1,340,969
1,348,932
22: 1,332,514
26: 1,349,546
27: 1,340,452
1,345,845
30: 1,336,965
1,344,390
1,346,411
1,363,912
36: 1,328,699
1,355,913
37: 1,330,760
1,359,543
40: 1,361,985
41: 1,334,928
1,335,525
1,336,539
1,337,018
1,340,860
1,344,230
1,345,932
1,346,779
1,347,356
1,347,484
1,352,056
1,358,925
1,359,899
1,361,081
1,361,122
42: 1,327,721
1,332,457
1,343,581
1,343,909
1,352,931
42.5: 1,344,826
1,346,038
1,352,941
43: 1,348,411
45: 1,330,172
1,340,924
48: 1,344,278
1,350,628
1,355,619
51: 1,363,853
54: 1,349,017
57: 1,359,102
60: 1,361,064
63: 1,332,983
1,336,164
66: 1,335,071
75: 1,345,208
76: 1,330,434
77: 1,347,361
1,357,141
1,363,336
82: 1,354,224
84: 1,327,710
1,357,258
89: 1,333,648
91: 1,335,303
97: 1,355,190
99: 1,342,192
1,349,318
1,362,928
100: 1,331,323
1,332,677
1,346,640
102: 1,344,880
1,350,764
108: 1,332,693
118: 1,327,481
1,328,817
1,329,177
1,329,362
1,345,179
1,349,340
1,350,603
1,361,148
120: 1,360,214
121: 1,326,902
1,327,006
1,330,197
1,330,735
1,331,028
1,331,944
1,335,254
1,337,493
1,338,468

25— 121: 1,339,270
1,340,952
1,342,373
1,343,572
1,347,015
1,351,157
1,354,543
1,355,185
122: 1,332,246
123: 1,328,367
126: 1,336,712
1,352,571
127: 1,329,730
1,336,857
1,336,867
128: 1,344,115
1,346,844
1,348,332
1,363,651
129: 1,337,663
130: 1,327,739
1,335,501
1,337,074
1,343,176
1,345,013
1,349,826
1,353,107
1,355,122
1,356,064
131: R. 14,807
1,329,095
1,329,699
1,331,096
1,331,191
1,331,491
1,332,617
1,334,677
1,339,912
1,344,623
1,345,371
1,354,516
1,354,705
1,357,418
1,358,417
1,358,693
1,361,315
131.5: 1,327,081
1,330,126
1,332,243
1,335,458
1,344,775
1,349,819
1,350,772
1,361,105
1,363,391
132: 1,337,298
1,339,601
1,348,486
1,360,245
133: 1,348,775
134: 1,330,175
1,351,281
1,351,305
1,355,821
135: 1,340,633
136: 1,330,164
137: 1,362,938
142: 1,329,745
1,330,432
1,330,433
1,332,501
1,333,099
1,337,454
1,338,771
1,341,550
1,345,605
1,348,510
1,348,511
1,354,541
1,355,407
1,355,906
1,356,397
1,356,398
1,360,625
1,360,626
143: 1,383,215
144: 1,354,518
1,362,158
145: 1,329,830
1,349,185
146: 1,332,471
148: R. 14,972
151: 1,356,396
153: 1,333,380
1,333,381
1,336,762
154: 1,353,928
155: 1,332,676
1,344,087
156: 1,330,180
1,340,308
1,342,499
1,344,885

25— 156: 1,351,599
157: 1,341,077
1,341,078
1,345,410
26— 6: 1,349,788
7: 1,340,482
8: R. 14,979
1,333,134
1,339,309
1,340,809
1,346,549
9: 1,335,450
12: 1,344,777
14: 1,350,582
16: 1,334,114
1,334,164
1,336,385
1,338,513
18: 1,339,826
1,343,385
1,347,714
20: 1,334,669
27: 1,346,259
73: 1,346,446
84: 1,346,722
85: 1,346,665
87.1: 1,346,416
27— 3: 1,348,579
6: 1,327,442
1,344,674
1,359,402
7: 1,335,722
8: 1,342,324
1,343,280
1,345,210
1,349,412
16: 1,345,451
22: 1,338,579
24: 1,335,158
1,342,997
25: 1,361,135
29: 1,348,405
35: 1,360,865
28— 2: 1,327,170
1,343,854
4: 1,328,216
1,330,264
1,331,072
1,337,269
1,337,270
1,340,425
1,342,646
1,356,570
1,358,173
1,359,092
1,363,858
5: 1,331,679
1,334,244
1,334,257
1,334,635
1,339,869
1,348,033
1,348,615
6: 1,330,050
1,330,455
1,336,649
1,343,076
1,362,643
7: 1,330,534
1,360,790
14: 1,330,383
1,337,727
1,339,182
1,362,165
20: R. 14,818
1,336,148
1,343,102
1,353,476
21: 1,328,943
1,334,086
1,341,579
1,343,230
1,343,388
1,345,375
1,345,907
1,355,852
1,356,834
24: 1,330,323
1,330,817
1,331,369
1,337,155
1,343,452
1,354,084
1,358,216
1,360,810
25: 1,341,987
1,361,803
34: 1,350,812
40: 1,340,487
29— 1: 1,331,455
1,332,573
1,332,678
1,344,907

29— 1: 1,348,611
1,353,164
1.11: 1,329,762
1,338,871
1,338,872
1.21: 1,332,798
1,352,321
2: 1,327,336
5: 1,336,660
7: 1,339,443
8: 1,360,719
10: 1,352,870
11: 1,331,508
17: 1,352,587
18: 1,334,584
1,340,149
1,342,484
21: 1,346,601
1,354,751
26: 1,339,409
1,342,865
1,352,476
27: 1,338,456
29: 1,339,816
1,351,504
32: 1,328,250
33: 1,330,508
1,341,453
1,358,745
1,360,240
36: 1,338,742
1,363,751
38: 1,342,963
1,345,743
1,355,480
1,360,175
43: 1,343,344
44: 1,356,020
47: 1,346,892
48: 1,327,561
1,352,949
1,361,198
49: 1,345,770
52: 1,334,335
57: 1,355,168
1,355,992
62: 1,356,311
64: 1,363,752
66: 1,331,212
67: 1,344,428
1,355,333
68: 1,360,972
69: 1,328,039
1,336,501
1,348,440
1,358,971
70: 1,339,815
1,340,400
1,353,558
73: 1,334,166
1,336,443
1,337,147
1,348,616
1,354,874
1,362,628
75: 1,361,805
76: 1,341,047
1,341,369
1,345,809
1,361,074
78: 1,335,866
1,345,890
1,347,298
1,347,299
1,349,366
79: 1,354,828
80: 1,337,940
1,339,658
1,345,472
1,349,596
81: 1,328,034
1,339,348
1,353,135
83: 1,332,481
1,340,509
1,353,485
1,363,476
84: 1,327,468
1,331,291
1,332,538
1,334,151
1,336,291
1,337,097
1,338,697
1,339,210
1,339,434
1,343,351
1,344,700
1,348,339
1,350,325
1,352,341
1,352,498
1,353,600

Digitized by Google

Classification of patents—Continued.

29— 84: 1,354,034
1,354,390
1,355,784
1,358,679
1,360,377
84.1: 1,345,651
85: 1,328,663
1,330,462
1,337,233
1,339,773
1,339,774
1,342,907
1,343,015
1,343,661
1,345,186
1,346,023
1,346,868
1,347,809
1,351,307
1,352,990
1,354,271
1,355,028
1,356,905
1,357,136
1,357,698
1,358,418
1,359,768
1,361,316
1,361,975
86: 1,344,510
86.1: 1,337,670
1,339,157
1,342,840
1,343,901
1,344,619
1,350,704
1,355,631
1,357,012
1,362,911
86.2: 1,336,938
86.3: 1,348,570
1,350,163
1,350,803
1,352,407
1,353,255
1,356,978
1,356,979
1,357,097
1,357,204
1,357,817
1,357,954
1,358,530
1,358,871
1,359,678
1,359,814
1,360,440
1,360,515
1,361,219
1,361,427
1,362,440
87: 1,353,505
1,357,056
87.1: R. 14,845
1,327,015
1,328,228
1,328,776
1,329,518
1,330,542
1,330,922
1,331,308
1,331,602
1,332,128
1,333,358
1,333,966
1,334,131
1,336,202
1,339,289
1,339,422
1,340,192
1,342,529
1,343,130
1,345,153
1,348,654
1,348,658
1,348,701
1,349,934
1,351,424
1,352,157
1,354,412
1,354,982
1,355,432
1,356,194
1,358,860
1,358,878
1,361,492
1,361,548
88: 1,358,510
88.2: 1,328,362
1,334,658
1,338,495
1,341,132
1,342,763
1,342,852

29— 88.2: 1,343,431
1,352,098
1,357,146
1,359,432
1,363,522
1,363,795
1,363,934
89: 1,328,264
1,336,912
1,337,847
1,341,322
1,341,809
1,344,385
1,344,559
1,347,637
1,349,633
1,350,119
1,350,236
1,351,232
1,351,966
1,354,428
1,356,889
1,361,262
1,363,020
1,363,286
1,363,478
90: 1,352,552
1,360,588
95: 1,336,209
1,352,140
96: 1,327,410
1,331,324
1,331,490
1,331,840
1,332,055
1,332,289
1,344,537
1,346,056
1,351,467
1,354,776
1,355,902
1,356,609
1,360,016
1,361,851
98: 1,336,155
1,342,031
1,351,632
1,354,636
99: 1,328,947
1,342,600
1,355,698
100: 1,343,257
102: 1,330,403
103: 1,329,806
1,332,898
1,335,892
1,338,158
1,338,822
1,345,636
1,348,295
1,348,304
1,348,307
1,349,967
1,354,097
1,359,748
104: 1,343,276
1,358,533
1,358,613
105: 1,332,736
1,340,474
1,342,055
1,346,842
1,348,479
1,351,386
1,352,688
1,354,578
1,359,179
148: 1,328,276
1,331,921
1,331,922
1,332,445
1,334,051
1,336,576
1,336,689
1,336,800
1,338,779
1,339,722
1,340,032
1,340,166
1,340,844
1,341,205
1,341,271
1,342,071
1,342,801
1,344,416
1,344,875
1,345,786
1,345,942
1,347,449
1,347,450
1,347,477
1,348,674
1,349,733

29— 148: 1,350,177
1,350,178
1,350,829
1,350,831
1,352,285
1,352,292
1,353,395
1,353,565
1,357,002
1,357,739
1,359,075
1,359,331
1,359,353
1,361,663
1,361,704
1,361,705
1,362,313
153: 1,350,830
1,353,987
1,363,154
156: 1,328,509
1,332,592
1,339,672
1,348,013
1,351,202
1,352,034
156.1: 1,328,414
1,328,436
1,329,271
1,332,572
1,337,551
1,340,037
1,359,857
1,353,227
1,353,576
1,361,989
157: 1,331,047
1,337,001
1,338,419
1,344,964
1,351,949
1,352,535
1,361,214
1,363,208
1,363,416
159: 1,336,498
1,337,808
1,352,021
164: 1,335,213
1,335,808
1,335,914
1,347,137
1,352,167
167: 1,328,975
1,330,575
1,340,528
1,349,493
1,352,152
169: 1,348,677
1,361,817
173: 1,331,677
1,363,808
174: 1,336,332
1,336,333
1,340,945
175: 1,360,421
180: 1,355,368
182: 1,336,449
187: 1,332,932
188: 1,341,812
1,345,143
1,354,492
189: 1,332,674
1,351,824
30— 1: 1,329,675
1,331,218
1,334,112
1,336,662
1,342,096
1,342,097
1,343,174
1,343,175
1,346,249
1,348,293
1,348,914
1,350,005
1,351,041
1,351,924
1,352,326
1,353,173
1,354,306
1,354,458
1,355,309
1,356,866
1,357,031
1,357,364
1,357,444
1,358,423
1,359,020
1,359,031
1,360,570
1,360,778
1,361,916

30— 2: 1,349,291
3: 1,327,134
1,329,133
1,331,605
1,333,450
1,334,100
1,334,782
1,335,598
1,336,126
1,337,148
1,337,514
1,338,643
1,341,421
1,348,434
1,348,760
1,354,399
1,356,531
1,356,651
1,359,305
1,360,256
1,361,859
1,363,579
1,364,016
5: 1,327,438
1,343,811
8: 1,346,669
9: 1,329,912
1,332,254
1,332,255
1,332,256
1,333,066
1,342,294
1,345,637
1,349,925
1,355,828
1,357,855
1,358,202
1,359,448
1,359,722
10: 1,335,847
1,337,769
1,341,153
1,353,490
1,355,676
1,357,398
1,358,097
1,359,760
1,362,142
1,362,143
11: 1,333,578
1,338,216
1,340,800
1,362,273
12: 1,327,547
1,328,024
1,329,030
1,331,483
1,332,553
1,332,587
1,333,306
1,333,315
1,334,534
1,335,840
1,336,923
1,336,969
1,337,166
1,337,429
1,337,435
1,338,305
1,338,507
1,338,908
1,342,028
1,342,370
1,342,494
1,343,012
1,343,900
1,344,447
1,345,039
1,346,394
1,346,855
1,349,004
1,350,034
1,350,227
1,350,717
1,350,960
1,351,507
1,351,712
1,351,713
1,351,826
1,353,160
1,353,243
1,353,603
1,353,609
1,354,178
1,354,658
1,355,529
1,356,240
1,356,627
1,356,799
1,357,221
1,357,222
1,357,863
1,358,115

30— 12: 1,358,442
1,358,485
1,359,666
1,360,423
1,361,266
1,363,362
13: 1,330,515
1,331,407
1,332,296
1,337,263
1,339,797
1,345,882
1,350,653
1,354,755
1,354,968
1,357,200
1,357,437
1,359,762
1,362,599
1,363,600
14: 1,329,365
1,338,248
1,345,737
1,348,276
1,349,320
1,349,627
1,350,881
1,360,797
17: 1,336,464
1,356,882
20: 1,330,820
1,331,880
1,333,960
1,342,292
1,346,321
1,347,288
1,357,785
22: 11329 172
1,334,169
1,337,174
1,347,307
1,348,762
1,350,098
1,351,045
1,351,046
23: 1,335,777
1,359,315
1,361,982
1,363,164
24: 1,334,816
1,338,281
1,339,282
1,347,098
25: 1,331,243
1,347,234
1,351,987
1,352,011
1,355,762
1,360,888
31— 13: 1,333,643
14: 1,327,704
1,330,545
1,342,569
1,346,997
21: 1,343,402
65: 1,329,810
1,331,786
1,332,158
1,334,304
1,348,805
1,359,206
1,360,572
68: 1,340,479
70: 1,358,667
73: 1,333,460
1,333,461
1,363,739
78: 1,330,328
1,335,259
1,340,097
79: 1,354,519
90: 1,360,869
95: 1,361,082
96: 1,329,452
98: 1,328,880
1,330,872
1,332,346
1,338,182
1,349,441
1,351,192
1,351,798
99: 1,330,114
1,333,072
1,341,430
1,347,162
1,354,668
1,355,839
1,361,617
100: 1,351,337
1,354,145
1,358,987
101: 1,329,451
1,332,318

31— 101: 1,335,173
1,335,958
1,344,140
1,352,726
1,353,570
1,353,639
1,361,435
102: 1,333,261
1,337,211
1,348,401
32— 1: 1,338,918
1,341,191
1,343,691
1,345,433
1,339,640
1,353,039
1,354,454
1,362,602
4: 1,327,674
1,331,974
1,332,466
1,334,119
1,337,622
1,339,821
1,343,935
1,343,949
1,343,950
1,352,614
1,354,938
1,358,625
5: 1,331,302
1,335,413
1,340,213
1,341,736
6: 1,335,372
1,338,415
1,346,951
1,346,996
1,351,108
1,360,146
9: 1,333,007
1,333,804
1,335,681
1,335,717
1,335,734
1,338,959
1,341,813
1,342,376
1,342,379
1,348,041
1,351,578
1,353,199
1,354,515
1,354,696
1,357,289
1,363,169
10: 1,327,149
1,327,477
1,3 8,131
1,329,837
1,333,388
1,335,825
1,341,170
1,342,968
1,345,579
1,345,608
1,345,815
1,346,584
1,347,275
1,349,464
1,353,019
1,354,089
1,355,790
1,356,372
1,356,755
11: 1,333,809
1,356,352
12: 1,332,415
1,339,812
1,340,089
1,340,959
1,344,076
1,345,595
1,347,555
1,348,796
1,348,799
1,351,623
13: 1,333,054
1,350,002
1,352,395
1,355,888
15: 1,354,139
1,362,680
17: 1,358,300
1,359,665
18: 1,349,188
19: 1,347,285
1,361,661
1,362,339
20: 1,336,746
1,349,767
23: 1,345,606
24: 1,332,744

Digitized by Google

Classification of patents—Continued.

32— 27: 1,345,718
31: 1,358,432
33: 1,353,587
35: 1,347,933
33— 1: 1,328,871
1,331,978
1,332,594
1,338,730
1,341,036
1,342,129
1,346,250
1,349,277
1,354,195
1,354,576
1,357,386
1,358,572
1,363,126
3: 1,331,923
1,338,023
1,356,489
1,359,375
1,363,293
1,364,035
4: 1,349,740
6: 1,339,702
9: 1,338,002
1,344,871
10: 1,363,296
11: 1,360,327
19: 1,330,319
1,333,408
1,362,261
23: 1,328,089
1,347,078
1,357,268
24: 1,341,739
1,359,240
1,359,241
1,359,242
25: 1,347,695
26: 1,327,154
1,336,241
1,356,796
27: 1,332,887
1,341,457
1,342,872
1,347,085
32: R. 14,788
1,331,966
1,346,832
34: 1,344,166
35: 1,351,476
42: 1,327,874
44: 1,341,481
1,344,569
45: 1,333,471
46: 1,339,450
1,339,919
1,340,573
1,343,952
1,349,336
1,352,909
1,356,285
1,363,011
1,364,040
1,364,041
47: 1,336,165
1,339,248
1,350,153
48: 1,328,014
1,346,430
1,360,730
1,361,779
1,361,924
1,363,926
1,364,021
49: 1,343,003
1,361,780
1,361,781
50: 1,361,063
1,362,320
52: 1,329,075
1,344,639
1,346,303
1,357,094
1,357,095
1,358,015
1,363,553
53: 1,338,121
55: 1,338,183
1,340,996
1,344,973
56: 1,340,453
57: 1,327,141
1,357,096
58: 1,330,002
1,338,382
1,359,740
59: 1,358,201
1,361,768
62: 1,343,515
63: 1,340,619
64: 1,333,192

33— 64: 1,338,951
1,340,618
1,345,224
1,353,151
1,363,670
65: 1,330,013
66: 1,359,133
67: 1,339,130
1,356,719
68: 1,345,289
72: 1,336,010
73: 1,341,209
75: 1,329,005
1,330,253
1,330,839
1,331,415
1,333,223
1,342,232
1,346,273
1,349,455
1,350,273
1,350,581
1,356,306
1,360,779
1,362,683
76: 1,339,644
1,340,623
1,357,474
1,359,743
77: 1,348,655
79: 1,360,496
80: 1,343,600
1,345,996
1,346,593
1,356,971
81: 1,349,550
1,362,635
85: 1,336,004
87: 1,338,935
88: 1,342,335
90: 1,337,107
1,343,604
93: 1,342,730
1,344,269
1,346,050
95: 1,337,823
97: 1,330,069
1,339,405
1,358,604
98: 1,329,327
1,336,102
1,349,348
1,363,866
102: 1,346,409
104: 1,357,753
106: 1,349,349
107: 1,333,576
1,334,145
1,343,968
1,354,977
108: 1,357,462
109: 1,338,962
111: 1,343,912
1,356,987
112: 1,355,808
113: 1,355,881
114: 1,333,128
1,358,009
115: 1,341,435
117: 1,340,125
1,349,087
1,351,527
1,359,758
119: 1,360,539
120: 1,331,951
121: 1,358,086
123: 1,351,732
124: 1,333,637
126: 1,359,763
127: 1,337,260
1,359,462
129: R. 15,012
1,330,265
1,350,894
1,353,661
130: 1,356,446
1,362,843
131: 1,330,453
1,345,811
133: R. 14,898
1,336,230
1,339,748
1,359,549
1,363,292
134: 1,337,891
1,340,218
1,356,625
137: R. 14,947
1,327,198
143: 1,329,729
1,329,911
1,334,984
1,341,865

33— 143: 1,342,288
1,343,227
1,343,479
1,346,224
1,355,724
1,356,214
1,363,825
145: 1,329,196
1,329,197
1,341,377
147: 1,328,378
1,330,225
1,337,018
1,341,646
1,344,941
1,345,236
1,346,572
1,347,207
1,347,925
1,351,063
1,354,010
1,357,323
1,358,794
1,359,884
148: 1,328,007
1,328,651
1,346,304
1,349,091
1,351,804
152: 1,334,556
1,357,081
153: 1,328,066
154: 1,350,511
157: 1,343,064
158: 1,335,004
1,351,941
160: 1,352,220
161: 1,338,176
162: 1,351,028
1,363,250
163: 1,327,216
1,351,721
164: 1,338,932
1,348,875
165: 1,358,921
1,361,406
166: 1,328,538
1,349,612
1,350,185
1,361,156
167: 1,333,453
1,333,943
1,337,165
1,363,297
1,363,654
168: 1,333,233
1,348,861
169: 1,327,114
1,329,334
1,334,217
1,346,358
1,360,492
172: 1,334,915
1,334,999
1,339,384
1,342,992
1,345,397
1,348,162
1,350,769
1,352,855
1,361,848
173: 1,353,682
1,361,470
174: 1,333,172
1,339,939
1,340,254
178: 1,329,456
1,330,861
1,339,996
1,345,071
1,345,930
179: 1,330,870
1,332,570
1,357,945
1,361,876
180: 1,328,144
1,332,681
1,352,311
185: 1,337,293
1,353,089
189: 1,360,296
1,362,726
191: 1,328,213
1,340,473
1,341,757
1,351,592
192: 1,331,476
1,338,800
1,346,646
1,351,889
194: 1,336,426
197: 1,333,996
1,336,157
199: 1,331,794

33— 199: 1,336,189
1,338,670
1,339,573
1,353,608
1,354,587
1,357,588
1,357,589
1,357,813
1,359,943
1,362,558
201: 1,331,190
1,340,022
202: 1,359,216
1,361,677
203: 1,344,264
1,346,748
1,347,684
204: 1,343,188
1,359,368
1,362,940
206: 1,343,657
1,361,367
207: 1,333,559
1,341,553
1,346,619
209: 1,349,613
1,356,823
210: 1,359,474
211: 1,348,742
213: 1,359,882
1,362,813
215: 1,328,370
1,332,928
1,336,694
1,338,639
1,339,787
1,345,098
1,346,547
1,348,055
1,359,711
1,360,102
216: 1,340,995
217: 1,336,289
1,349,565
1,357,270
222: 1,351,556
1,360,095
223: 1,332,027
1,332,304
1,334,273
1,338,666
1,341,296
262: 1,345,339
34— 5: 1,327,609
1,336,422
1,338,696
1,338,731
1,339,032
1,339,365
1,340,692
1,344,551
1,355,293
1,358,313
1,358,599
6: 1,332,137
1,332,380
1,339,260
1,345,260
7: 1,350,541
11: 1,341,655
12: 1,327,486
1,329,082
1,330,155
1,332,657
1,334,840
1,339,092
1,344,419
1,344,893
1,345,225
1,346,986
1,347,473
1,349,590
1,352,377
1,353,107
1,356,469
1,358,431
1,359,141
1,361,626
1,363,431
13: 1,362,568
15: 1,326,909
1,355,238
17: 1,337,005
1,342,774
1,344,932
1,349,458
18: 1,338,071
1,351,770
1,360,753
19: 1,327,313
1,327,638
1,328,847
1,330,195

34— 19: 1,330,238
1,333,406
1,335,222
1,335,702
1,339,705
1,344,163
1,352,893
21: 1,349,943
23: 1,339,771
24: 1,327,314
1,328,507
1,329,813
1,333,861
1,333,848
1,334,360
1,346,091
1,349,568
1,353,937
1,356,356
26: 1,329,301
1,330,025
1,332,326
1,334,032
1,339,784
1,341,405
1,346,070
1,350,062
1,351,379
1,352,876
1,360,809
1,361,039
30: 1,344,241
1,347,501
33: 1,346,238
34: 1,331,963
1,334,235
1,337,220
1,341,076
1,346,335
1,359,188
1,359,301
1,360,336
37: 1,345,230
39: 1,328,398
1,331,658
1,339,119
1,346,781
1,348,757
1,349,908
1,351,118
1,351,696
1,352,071
1,353,358
1,354,210
1,363,130
41: 1,362,216
45: 1,334,495
46: 1,328,396
1,332,164
1,332,527
1,341,884
1,353,591
1,355,117
1,360,645
1,360,706
47: 1,347,000
48: 1,330,366
1,332,706
1,345,083
1,360,323
1,361,447
35— 1: 1,327,775
1,349,776
2: 1,335,126
1,340,052
1,354,707
3: 1,346,412
5: 1,335,923
1,343,181
6: 1,351,892
1,362,939
8: 1,340,529
1,343,244
1,347,729
9: 1,329,896
1,343,721
1,346,930
1,350,338
1,351,008
1,352,942
1,354,092
1,354,910
12: 1,327,474
1,328,818
1,328,952
1,329,850
1,330,089
1,331,728
1,331,817
1,331,767
1,327,306
1,342,020
1,343,095

35— 12: 1,343,112
1,346,738
1,346,929
1,351,534
1,356,929
1,357,791
1,359,115
1,359,646
15: 1,344,920
1,352,720
1,352,721
16: 1,338,068
1,341,773
1,344,685
1,347,993
17: 1,327,618
36— 1: 1,328,665
1,334,991
1,335,156
1,341,498
1,349,095
1,351,414
1,362,157
2: 1,332,472
1,334,825
1,341,885
1,347,657
1,361,755
1,363,348
3: 1,327,772
1,335,273
4: 1,334,009
1,349,572
1,352,008
5: 1,339,994
6: 1,336,962
9: 1,335,287
11: 1,331,220
1,359,377
13: 1,338,947
14: 1,330,552
1,336,355
1,349,744
1,356,717
15: 1,341,323
1,360,228
16: 1,333,995
1,348,136
1,363,640
17: 1,337,219
1,354,972
18: 1,348,163
22: 1,340,404
1,340,906
1,352,736
25: 1,331,844
1,350,965
30: 1,340,341
1,343,450
1,344,504
1,352,730
1,352,737
1,354,971
1,363,076
31: 1,341,880
32: 1,350,930
1,351,291
1,361,907
34: 1,328,249
1,337,639
1,340,571
1,340,911
1,345,886
1,350,156
1,354,356
1,356,861
35: 1,328,564
1,331,199
1,333,983
1,341,383
1,343,528
1,346,038
1,350,332
1,351,543
1,351,691
1,359,805
1,362,229
1,363,568
1,364,023
36: 1,328,174
1,342,291
1,343,353
1,344,443
1,346,709
1,350,216
1,354,499
1,359,626
37: 1,332,070
1,345,114
1,356,829
38: 1,328,816
1,338,817
39: 1,330,183

Digitized by Google

Classification of patents—Continued.

36— 40: 1,328,991
1,335,371
1,335,455
1,335,604
1,336,194
1,354,138
1,355,362
1,356,227
1,356,228
1,356,727
1,358,598
1,362,256
1,363,388
41: 1,343,602
42: 1,330,731
1,333,138
1,338,580
1,339,438
1,340,910
1,341,088
1,341,387
1,341,521
1,343,638
1,344,356
1,346,841
1,347,422
1,347,883
1,355,921
1,361,683
1,363,643
43: 1,346,146
1,354,936
44: 1,334,213
1,340,049
1,342,967
1,348,706
1,351,726
45: 1,360,177
47: 1,333,213
50: 1,328,333
1,345,407
1,346,019
54: 1,332,331
1,340,503
1,355,323
56: 1,342,149
1,361,926
57: 1,351,722
58. 5: 1,344,996
59: 1,330,633
1,331,713
1,333,409
1,337,062
1,344,972
1,350,839
1,352,731
1,352,734
1,355,827
1,356,113
1,356,549
1,360,811
60: 1,335,945
61: 1,335,387
1,361,078
62: 1,329,064
1,329,987
1,340,877
1,352,088
1,354,073
1,357,658
63: R. 14,934
1,328,957
1,335,346
1,336,276
1,350,197
1,362,225
64: 1,349,542
67: 1,355,201
68: 1,351,172
70: 1,354,934
1,356,492
71: 1,333,737
1,335,981
1,336,278
1,336,979
1,340,059
1,346,444
1,349,355
1,352,865
1,358,018
1,358,606
1,359,113
1,361,740
1,362,191
72: 1,340,356
1,343,329
1,345,875
1,350,190
73: 1,337,983
1,354,846
1,360,995
74: 1,355,747
75: 1,334,210

36— 76: 1,327,091
1,335,172
1,347,061
78: 1,334,829
1,353,251
1,357,676
1,357,677
159: 1,352,503
37— 5: 1,330,359
1,331,382
1,331,812
1,332,502
1,332,742
1,333,504
1,333,888
1,337,355
1,339,664
1,343,097
1,346,432
1,347,336
1,347,485
1,348,119
1,350,991
1,352,989
1,358,046
1,359,090
1,362,190
7: 1,327,047
1,328,910
1,329,858
1,330,783
1,332,872
1,334,001
1,335,906
1,340,497
1,345,667
1,350,060
1,352,155
1,354,264
1,357,685
1,363,704
9: 1,327,651
1,331,239
1,337,279
1,340,445
14: 1,327,324
1,328,487
17: 1,330,057
1,339,866
1,356,426
1,362,056
19: 1,342,895
1,355,938
1,360,681
24: 1,327,418
1,329,523
1,335,605
1,336,595
1,336,658
1,339,687
1,341,138
1,343,081
1,345,296
1,349,936
1,356,624
25: 1,329,673
1,335,674
1,338,784
1,343,734
1,355,677
1,356,310
1,359,781
29: 1,329,591
1,332,662
1,335,932
1,336,657
1,346,075
1,346,679
1,347,860
1,351,040
1,355,003
30: 1,329,868
1,331,455
1,339,341
1,342,996
1,344,969
1,346,999
1,350,124
32: 1,349,498
33: 1,327,578
1,340,247
1,351,277
1,358,017
1,363,346
1,363,435
39: 1,327,335
1,329,554
1,354,054
40: 1,330,826

37— 40: 1,333,816
1,341,750
1,353,341
42: 1,329,643
1,333,815
1,336,215
1,343,159
1,344,794
1,356,443
1,363,454
48: 1,356,038
49: 1,328,223
1,329,689
1,339,548
1,347,008
1,357,245
50: 1,331,367
1,332,689
1,337,426
1,344,580
54: 1,328,013
1,332,609
1,333,852
1,339,606
1,342,759
55: 1,333,165
1,360,874
56: 1,330,143
1,333,394
1,340,385
1,363,189
57: 1,328,157
1,329,123
58: 1,328,489
1,343,533
1,347,677
59: 1,345,438
60: 1,333,373
1,340,263
1,352,567
61: 1,341,005
62: 1,327,645
1,328,073
1,336,016
63: 1,328,026
1,334,516
1,348,383
1,352,284
38— 7: 1,332,549
1,334,744
8: 1,344,930
10: 1,339,240
12: 1,329,544
1,329,793
1,331,527
1,343,816
22: 1,328,850
39— 1: 1,329,022
1,330,146
1,332,237
3: 1,342,253
1,356,632
5: 1,357,896
6: 1,356,922
1,359,974
7: 1,330,843
13: 1,351,612
14: 1,349,173
18: 1,327,860
1,332,299
1,335,350
1,343,023
1,350,235
1,356,989
19: 1,342,014
1,345,145
28: 1,337,897
34: 1,327,257
35: 1,352,233
39: 1,334,450
44: 1,361,152
48: 1,347,438
50: 1,354,420
52: 1,330,529
1,334,992
58: 1,350,943
1,359,089
60: 1,362,133
66: 1,329,963
67: 1,332,077
69: 1,363,737
75: 1,357,108
80: 1,334,946
1,341,963
81: 1,332,770
1,355,953
82: 1,350,323
1,350,967
83: 1,332,851
1,342,227
84: 1,359,764
87: 1,328,168
1,341,905

39— 87: 1,344,820
1,345,559
88: 1,348,170
89: 1,329,951
91: 1,362,929
92: 1,356,302
40— 1: 1,329,653
1,332,604
1,334,120
1,351,730
1. 5: 1,330,599
1,356,483
2: 1,329,428
1,329,937
1,332,421
1,333,514
1,336,270
1,336,745
1,337,586
1,339,007
1,342,627
1,343,423
1,345,782
1,346,028
1,346,101
1,347,241
1,353,531
1,356,053
1,362,328
1,362,385
3: 1,347,868
1,362,969
4: 1,348,899
1,350,890
1,352,336
5: 1,337,722
1,340,998
1,343,569
7: 1,329,207
1,363,298
9: 1,357,211
10: 1,328,915
1,330,067
1,333,068
1,331,682
1,333,478
1,338,181
1,340,387
1,342,844
1,344,079
1,346,808
1,347,222
1,347,452
1,348,382
1,348,952
1,350,070
1,350,275
1,356,499
1,357,085
1,364,025
11: 1,327,298
1,328,123
1,330,684
1,332,941
1,333,515
1,335,337
1,337,816
1,341,491
1,347,942
1,353,605
1,357,561
1,358,872
1,363,545
12: 1,347,233
13: 1,327,544
1,361,310
14: 1,333,434
1,335,077
15: 1,330,669
1,341,720
16: 1,336,723
1,340,724
1,344,223
1,344,420
1,346,810
1,348,628
1,357,033
17: 1,360,370
19. 5: 1,361,549
20: 1,328,019
1,345,874
1,353,952
1,359,951
21: 1,339,180
1,343,953
1,360,229
23: 1,329,808
1,349,570
25: 1,327,010
1,330,640
1,363,349
26: 1,347,212
1,348,281

40— 26: 1,357,645
1,358,546
1,360,433
27: R. 14,883
1,335,995
1,348,546
1,355,940
28: 1,330,570
1,331,254
1,333,386
1,342,156
1,342,223
1,345,128
1,345,675
1,346,923
1,348,852
1,352,368
1,357,457
1,358,085
1,362,580
30: 1,336,411
31: 1,329,705
1,336,032
1,346,758
32: 1,330,134
1,330,991
1,350,054
1,353,734
1,357,656
33: 1,331,691
1,344,642
36: 1,354,245
37: 1,329,920
39: 1,342,538
1,346,488
41: 1,342,793
42: 1,336,268
1,336,907
1,350,244
44: 1,331,820
45: 1,345,987
46: 1,343,994
1,349,160
1,354,638
51: 1,356,585
52: 1,333,046
1,359,274
1,362,842
53: 1,329,216
1,331,284
1,331,773
1,335,262
1,338,523
1,342,394
1,351,707
54: 1,331,180
55: 1,358,873
57: 1,335,215
1,357,934
59: 1,327,274
1,330,887
1,333,190
1,350,038
61: 1,345,211
63: 1,345,954
1,358,463
1,360,726
1,363,736
64: 1,327,552
1,329,568
1,338,790
1,363,468
65: 1,337,315
1,355,132
1,359,084
66: 1,337,401
1,362,647
1,363,486
67: 1,331,344
1,332,748
1,334,424
1,338,703
1,343,248
1,345,218
1,345,562
1,347,011
1,348,182
1,360,432
68: 1,331,574
1,341,116
1,343,646
1,363,121
70: 1,328,613
1,331,531
1,333,686
1,336,739
1,349,321
1,350,303
72: 1,335,708
76: 1,362,542
77: 1,329,218
1,329,750
1,329,957

40— 77: 1,331,171
1,334,196
1,336,772
1,346,775
1,353,361
1,357,273
1,357,274
1,363,521
78: 1,333,920
1,336,585
1,341,950
1,352,416
1,353,105
1,354,261
1,355,664
85: 1,344,618
86: 1,328,178
1,329,875
1,338,892
1,342,283
1,346,995
1,351,523
1,353,458
87: 1,347,545
89: 1,357,464
91: 1,326,980
96: 1,355,716
102: 1,335,160
1,355,062
1,362,487
103: 1,363,146
107: 1,328,830
1,343,601
1,346,764
1,347,882
1,348,245
1,353,751
1,363,427
108: 1,334,031
109: 1,330,281
1,360,004
113: 1,327,317
1,348,044
115: 1,339,401
117: 1,332,458
1,333,851
1,345,150
1,350,114
1,364,030
119: 1,353,832
124: 1,335,822
1,354,026
125: R. 14,827
1,327,387
1,329,454
1,338,422
1,343,247
1,343,837
1,346,006
1,348,739
1,350,302
1,356,056
1,358,000
1,359,492
1,359,659
1,359,836
1,360,405
1,360,880
1,361,574
125. 6: 1,329,206
126: 1,334,056
1,346,658
1,350,542
127: 1,332,274
128: 1,358,534
1,361,911
1,362,465
129: 1,330,142
130: 1,328,135
1,330,677
1,336,517
1,336,706
1,338,532
1,340,067
1,346,499
1,353,372
1,356,276
1,361,457
130. 2: 1,338,198
131: 1,356,494
132: 1,326,985
1,329,635
1,331,965
1,334,779
1,336,035
1,337,728
1,337,872
1,340,145
1,341,201
1,341,990
1,342,181
1,344,355
1,345,557

Digitized by Google

Classification of patents—Continued.

40— 132: 1,346,500
1,346,567
1,346,714
1,347,012
1,348,816
1,348,957
1,349,063
1,349,191
1,350,469
1,351,635
1,352,031
1,352,039
1,352,279
1,353,788
1,354,066
1,354,337
1,354,437
1,357,409
1,357,783
1,358,367
1,359,341
1,360,575
1,363,993
133: 1,352,661
1,353,516
1,360,821
134: 1,339,019
1,349,396
1,362,284
137: 1,347,793
1,353,363
138: 1,347,210
140: 1,334,591
1,340,778
1,345,531
1,349,670
1,349,769
1,359,510
141: 1,341,251
142: 1,355,714
145: 1,327,427
1,335,570
1,337,947
1,338,384
1,344,268
1,335,974
1,348,065
1,352,065
1,355,036
145.1: 1,339,703
1,340,711
145.2: 1,357,280
145.3: 1,361,830
145.7: 1,331,009
146: 1,341,560
1,343,054
1,346,969
1,349,906
1,359,662
148: 1,361,981
149: 1,333,531
1,347,269
1,359,203
152: 1,329,078
1,333,284
1,342,817
1,356,375
1,356,575
1,363,409
154: 1,338,441
155: 1,338,258
1,341,971
1,342,477
1,346,691
156: 1,334,780
1,351,560
1,363,463
158: 1,342,248
1,352,037
1,355,694
1,358,916
1,361,678
1,361,703
159: 1,335,434
1,340,369
1,356,892
41— 1: 1,343,972
1,344,162
2: 1,353,426
4: 1,334,879
1,349,217
1,361,100
4.5: 1,347,029
1,347,030
1,348,653
7: 1,331,580
1,333,168
1,344,427
1,348,079
1,360,220
9: 1,345,219
1,339,457
1,340,975

41— 9: 1,359,872
10: 1,329,615
1,340,863
1,346,462
1,351,790
12: 1,354,627
15: 1,345,475
17: 1,352,569
18: 1,357,046
19: 1,347,173
1,354,471
21: 1,343,906
22: 1,351,029
25: 1,346,807
1,348,019
1,350,365
1,356,217
1,357,344
1,358,949
25.5: 1,339,127
26: 1,346,475
1,347,028
27: 1,346,440
31: 1,339,259
31.6: 1,348,812
33: 1,331,581
1,331,667
1,335,755
1,340,342
36: 1,329,000
38: 1,339,892
1,362,956
38.5: 1,327,131
38.6: 1,355,042
41.5: 1,347,010
42: 1,357,516
46: 1,333,544
1,343,978
69: 1,353,038
42— 1: 1,329,361
1,341,117
1,350,644
1,351,164
1,351,626
1,352,414
1,361,373
1,361,401
1,364,009
3: 1,327,897
1,333,570
1,333,571
1,333,572
1,337,444
1,338,649
1,338,866
1,340,891
1,340,943
1,342,358
1,343,444
1,344,884
1,344,911
1,344,991
1,347,756
1,348,284
1,348,733
1,350,543
1,351,141
1,352,267
1,352,412
1,352,413
1,353,736
1,355,378
1,355,418
1,355,419
1,356,424
1,356,425
1,356,191
1,357,208
1,359,365
1,359,366
1,359,609
1,359,635
1,359,746
1,360,522
1,363,041
1,363,696
1,363,809
4: 1,328,475
1,346,012
1,346,494
1,357,857
1,360,873
1,363,040
7: 1,350,619
1,351,370
8: 1,348,035
10: 1,357,393
1,360,188
16: 1,331,154
1,335,440
1,349,675
1,355,316
1,355,417

42— 16: 1,355,420
1,355,673
17: 1,337,292
1,349,350
1,355,252
18: 1,337,378
19: 1,347,755
1,361,402
25: 1,335,063
1,347,754
1,352,515
1,363,613
41: 1,343,588
42: 1,339,867
1,351,952
1,356,779
43: 1,362,478
44: 1,348,545
46: 1,338,381
49: 1,353,092
1,354,432
50: 1,331,155
1,348,172
1,350,645
1,358,105
53: 1,330,062
54: 1,348,285
1,356,559
1,361,071
55: 1,327,747
1,333,405
1,352,715
56: 1,333,268
1,347,509
1,363,475
57: 1,338,458
66: 1,342,923
69: 1,345,565
1,354,701
1,358,104
70: 1,329,230
1,335,988
1,349,345
1,355,067
1,360,950
71: 1,331,074
1,331,075
1,341,843
72: 1,340,127
73: 1,357,232
74: 1,328,700
1,328,924
1,334,467
1,349,779
75: 1,348,702
76: 1,346,188
1,346,189
1,346,190
1,346,191
1,352,938
78: 1,329,444
1,335,444
1,355,421
1,355,422
79: 1,348,750
1,351,309
90: 1,333,556
1,342,382
91: 1,337,104
92: 1,347,381
1,348,145
94: 1,348,910
1,359,726
43— 1: 1,328,114
1,329,534
1,331,366
1,331,306
1,331,946
4: 1,340,677
1,361,091
5: 1,328,117
6: 1,334,306
1,344,993
7: 1,341,552
9: 1,330,757
1,348,198
12: 1,339,275
1,340,374
1,351,928
14: 1,330,763
1,363,424
16: 1,330,314
1,331,312
18: 1,336,068
1,351,473
19: 1,327,229
1,330,338
1,331,132
20: 1,329,128
1,336,356
21: 1,327,890
1,330,622
1,330,683

43— 21: 1,360,429
22: 1,327,230
1,327,579
1,328,936
1,333,470
1,338,113
1,339,238
1,350,635
1,350,636
1,350,637
23: 1,331,324
24: 1,340,372
26: 1,327,490
27: 1,333,101
1,333,148
1,352,979
1,357,678
28: 1,327,040
1,351,625
1,351,669
30: 1,331,618
31: 1,349,528
1,362,765
32: 1,339,231
34: 1,334,702
35: 1,345,173
1,348,670
1,354,952
1,355,858
1,362,562
36: 1,327,751
37: 1,333,564
1,336,987
1,340,780
1,346,674
41: 1,338,877
42: 1,332,112
45: 1,334,022
1,339,189
1,339,832
1,353,779
1,362,586
46: 1,332,306
1,333,154
1,334,249
1,338,856
1,338,953
1,341,618
1,345,600
1,352,054
1,359,618
1,361,067
47: 1,333,318
48: 1,336,227
49: 1,350,530
1,361,602
1,362,781
52: 1,339,697
55: 1,354,060
1,356,400
59: R. 14,840
61: 1,339,135
1,345,716
1,355,831
1,360,038
1,362,695
63: 1,354,584
65: 1,357,530
66: 1,335,359
1,363,626
67: 1,347,130
1,349,453
1,354,700
69: 1,335,882
1,337,044
1,347,407
1,353,882
1,359,217
72: 1,345,227
1,355,264
73: 1,362,953
76: 1,340,801
1,355,034
77: 1,342,328
79: 1,334,418
81: 1,333,875
1,339,481
1,340,442
1,342,098
1,342,255
1,347,310
1,348,449
1,349,177
1,360,161
1,362,168
84: 1,343,066
1,347,255
1,348,543
86: 1,335,304
1,344,807
1,351,351
1,359,724
1,363,260

43— 87: 1,342,425
88: 1,332,360
1,333,016
1,333,017
1,337,149
1,344,712
1,349,717
1,356,775
90: 1,349,697
1,363,943
92: 1,358,749
93: 1,359,820
97: 1,358,141
100: 1,357,114
107: 1,341,706
108: 1,345,690
109: 1,361,361
111: 1,359,796
118: 1,341,416
1,343,502
1,347,906
1,353,233
1,359,060
1,361,417
119: 1,334,099
1,335,041
1,340,779
1,342,933
1,357,619
1,358,150
1,359,930
120: 1,350,402
122: 1,352,562
1,353,310
1,353,672
1,359,998
1,360,127
125: 1,332,109
1,336,822
128: 1,355,489
131: 1,352,067
133: 1,334,973
1,346,021
1,356,864
1,363,026
1,363,998
135: 1,332,900
1,344,943
1,356,371
137: 1,334,246
1,340,767
1,342,974
1,354,775
1,361,337
142: 1,334,863
1,338,587
143: 1,344,119
144: 1,351,407
145: 1,339,556
1,360,642
147: 1,361,293
148: 1,,354215
44— 1: 1,327,175
1,329,300
1,334,170
1,334,180
1,342,799
1,349,713
1,349,714
3: 1,334,492
7: 1,329,583
1,329,610
8: 1,331,054
1,338,982
1,338,983
9: 1,360,872
1,361,153
1,363,870
13: 1,356,759
20: 1,357,627
23: 1,359,074
33: 1,347,940
36: 1,361,689
45— 1: 1,352,195
2: 1,329,139
1,329,539
1,329,616
1,330,267
1,331,021
1,332,083
1,333,250
1,335,286
1,335,415
1,336,183
1,337,575
1,340,562
1,341,022
1,354,973
1,355,405
1,359,990
1,360,086
1,361,665
1,362,659

45— 3: 1,347,272
1,348,490
5: 1,345,366
6: 1,328,444
1,330,347
1,334,949
1,345,444
7: 1,330,936
1,333,263
1,350,186
1,352,002
1,353,452
9: 1,327,878
1,328,243
11: 1,331,538
1,330,734
1,334,434
1,340,370
1,353,866
1,360,052
12: 1,353,807
13: 1,333,462
1,334,976
1,335,881
1,336,408
1,340,014
1,342,200
1,342,274
1,342,346
1,342,626
1,353,287
1,355,604
1,358,756
1,359,613
1,360,912
1,362,730
16: 1,332,671
1,348,461
1,358,332
17: 1,327,242
1,330,851
1,338,034
1,346,470
1,361,299
18: 1,327,865
1,347,593
1,356,441
21: 1,328,995
1,335,308
1,335,806
1,342,396
1,345,030
1,351,274
1,353,067
1,356,618
1,357,737
26: 1,339,525
1,344,900
1,354,735
27: 1,334,508
1,338,834
1,339,501
1,342,435
1,342,686
1,349,679
28: 1,328,528
1,329,097
1,332,096
1,333,941
1,337,535
1,337,852
1,339,166
1,340,327
1,350,585
1,350,784
1,351,273
1,353,103
1,357,742
1,358,540
31: 1,328,462
1,335,704
1,336,818
1,338,254
1,339,232
1,342,387
1,346,976
1,349,634
1,349,710
1,353,208
1,353,660
1,353,728
1,357,050
1,358,680
1,359,118
1,359,479
32: 1,328,664
1,331,589
1,338,097
1,345,262
1,353,271
1,353,416
1,353,704
1,359,783

Digitized by Google

Classification of patents—Continued.

45— 33: 1,336,321
1,348,619
37: 1,326,940
1,341,106
1,352,496
1,352,556
1,361,070
1,361,739
38: 1,334,260
1,335,446
1,354,240
47: 1,328,000
48: 1,338,202
1,342,951
1,345,764
1,346,955
50: 1,331,041
1,331,879
1,337,311
1,346,586
1,347,645
1,360,580
1,361,420
51: 1,328,753
1,337,886
1,341,654
1,348,613
52: 1,327,977
1,334,374
1,335,967
1,340,766
1,342,851
1,352,901
1,355,772
1,358,033
1,358,271
1,363,062
53: 1,336,981
1,363,138
54: 1,327,748
1,340,317
55: 1,331,621
57: 1,329,429
1,330,004
1,330,250
1,334,373
1,343,229
1,351,487
1,360,718
58: 1,344,498
61: 1,359,816
64: 1,333,853
1,358,583
69: 1,364,022
70: 1,348,262
1,358,004
71: 1,328,324
1,328,625
1,351,097
1,351,654
1,362,101
75: 1,356,477
77: 1,328,112
1,333,264
1,339,842
1,343,513
1,345,194
1,352,924
78: 1,341,195
1,342,083
1,348,680
79: 1,345,197
80: 1,357,053
81: 1,349,023
82: 1,329,395
1,332,498
1,332,835
1,334,264
1,336,275
1,343,636
1,347,471
1,349,368
1,359,623
1,363,335
83: 1,359,811
88: 1,334,851
90: 1,335,239
91: 1,350,503
92: 1,347,025
1,358,980
93: 1,328,891
94: 1,343,742
1,350,047
1,352,902
1,353,453
1,360,448
1,363,524
95: 1,330,181
96: 1,330,301
1,334,945
1,340,319
1,355,150
97: 1,327,608

45— 97: 1,328,677
1,342,854
1,345,018
1,345,157
1,358,159
1,358,422
1,359,045
1,362,856
1,363,603
98: 1,339,673
99: 1,338,287
1,342,350
1,342,351
1,349,558
104: 1,348,027
106: 1,348,073
1,363,187
109: 1,363,759
110: 1,354,743
1,359,399
112: 1,337,092
1,358,353
113: 1,333,035
1,334,415
1,338,558
1,342,481
1,346,276
1,349,471
1,351,457
114: 1,363,631
115: 1,335,859
116: 1,339,359
1,340,085
1,341,033
1,343,810
1,351,013
1,350,834
117: 1,363,152
118: 1,342,289
119: 1,329,070
1,358,937
120: 1,337,545
1,342,820
1,344,718
121: 1,330,388
1,330,549
1,346,740
1,341,988
122: 1,336,954
130: 1,353,242
131: 1,327,956
1,347,426
132 1,348,661
133: 1,337,025
134: 1,348,823
1,357,839
135: 1,336,345
1,343,703
1,360,376
136: 1,328,177
137: R. 14,964
1,335,842
1,350,014
1,356,182
1,356,797
1,356,798

46— 4: R. 14,832
1,326,076
1,327,171
1,329,732
1,331,499
1,335,005
1,332,303
1,334,188
1,334,189
1,336,071
1,338,860
1,343,998
1,344,053
1,346,991
1,349,805
1,349,806
1,351,145
1,351,421
1,352,020
1,355,271
1,355,889
1,356,817
1,359,220
1,361,258
1,361,957
1,363,446
6: 1,342,517
8: 1,337,058
1,332,431
1,334,723
1,334,724
1,341,376
1,360,295
9: 1,335,376
1,340,395
1,349,069
1,354,387

46— 9: 1,362,483
12: 1,328,332
1,335,924
1,361,930
13: 1,348,441
1,355,429
14: 1,327,360
1,328,134
1,329,044
1,331,971
1,336,756
1,337,483
1,348,421
1,348,422
1,352,674
21: 1,327,056
1,327,907
1,337,274
1,338,475
1,341,360
1,339,493
1,339,536
1,343,338
1,346,826
1,348,335
22: 1,331,664
1,337,479
1,344,725
1,348,785
1,349,337
1,349,701
1,352,836
1,363,097
24: 1,327,072
1,333,876
1,351,066
25: 1,327,019
1,332,249
1,349,189
1,355,782
1,357,166
1,361,202
27: 1,327,725
1,329,856
1,330,307
1,331,206
1,332,174
1,333,407
1,334,592
1,334,727
1,337,820
1,340,570
1,341,219
1,341,220
1,344,965
1,345,647
1,346,576
1,350,176
1,354,436
1,357,520
1,357,995
1,358,246
1,360,071
1,360,754
1,362,864
1,363,352
31: 1,330,701
1,340,758
1,344,104
1,359,342
32: 1,334,873
1,335,571
1,338,572
1,338,573
1,338,574
1,338,575
1,349,226
1,351,630
1,355,514
1,355,601
1,361,637
1,363,307
1,363,718
35: 1,328,921
1,333,455
1,336,434
1,336,626
1,337,171
1,337,664
1,343,065
1,344,451
1,347,808
1,350,417
1,351,086
1,355,975
1,361,886
1,361,944
36: 1,330,870
1,338,879
1,345,414
37: R. 14,902
1,328,867
1,329,512

46— 37: 1,330,654
1,330,718
1,331,418
1,333,181
1,334,016
1,334,813
1,335,900
1,337,758
1,340,047
1,340,394
1,340,614
1,344,250
1,344,632
1,345,009
1,346,017
1,347,382
1,349,288
1,350,103
1,350,935
1,351,565
1,351,981
1,355,636
1,356,377
1,357,465
1,359,927
1,360,676
1,361,449
1,361,561
1,362,894
38: 1,348,745
1,353,778
1,356,023
1,359,078
40: 1,327,168
1,327,359
1,327,415
1,327,884
1,328,100
1,328,254
1,329,201
1,329,509
1,329,575
1,329,623
1,329,958
1,329,959
1,330,043
1,331,272
1,331,339
1,331,378
1,332,072
1,332,073
1,332,253
1,332,355
1,332,400
1,332,518
1,323,601
1,332,732
1,332,825
1,333,118
1,334,470
1,334,578
1,334,939
1,335,804
1,336,898
1,337,354
1,338,944
1,340,109
1,340,160
1,340,848
1,341,985
1,342,344
1,343,422
1,345,052
1,345,328
1,345,343
1,346,053
1,346,176
1,346,219
1,346,953
1,347,042
1,347,663
1,347,682
1,347,696
1,348,216
1,348,386
1,348,761
1,348,921
1,350,660
1,350,711
1,351,075
1,351,450
1,351,455
1,352,047
1,352,933
1,353,406
1,354,331
1,354,382
1,354,577
1,355,613
1,355,665
1,355,789
1,355,799
1,356,405

46— 40: 1,357,159
1,357,212
1,357,374
1,357,421
1,357,706
1,357,778
1,357,779
1,358,069
1,358,470
1,358,768
1,359,030
1,359,398
1,359,778
1,359,817
1,359,984
1,360,470
1,360,659
1,360,660
1,361,275
1,361,847
1,362,248
1,362,264
1,362,672
1,362,727
1,363,570
41: 1,327,388
1,331,033
1,331,181
1,331,249
1,336,541
1,337,691
1,338,973
1,339,251
1,339,399
1,340,512
1,342,706
1,342,884
1,345,490
1,346,634
1,348,520
1,349,456
1,349,937
1,350,039
1,350,251
1,351,384
1,358,780
1,352,046
1,352,517
1,353,462
1,354,793
1,356,610
1,356,703
42: 1,329,952
45: R. 14,995
1,328,829
1,329,045
1,329,338
1,332,822
1,333,613
1,334,043
1,337,705
1,338,449
1,339,165
1,341,102
1,342,037
1,342,577
1,342,882
1,342,945
1,344,064
1,345,140
1,347,238
1,349,202
1,351,147
1,353,707
1,354,381
1,355,612
1,356,333
1,356,647
1,356,901
1,357,937
1,359,809
1,360,970
1,363,460
46: 1,327,723
1,330,324
1,332,490
1,332,556
1,333,242
1,333,565
1,333,810
1,334,526
1,334,867
1,335,855
1,340,746
1,341,860
1,342,315
1,345,065
1,348,224
1,348,836
1,349,259
1,352,463
1,352,681
1,353,138

46— 46: 1,353,864
1,354,959
1,363,325
47: 1,330,289
1,331,948
1,361,386
48: 1,331,941
1,332,545
1,333,216
1,334,539
1,343,834
1,316,620
1,346,985
1,347,814
1,350,026
1,353,900
1,356,324
1,357,491
1,361,554
1,363,891
50: 1,352,113
1,355,680
1,358,591
51: 1,327,549
1,332,762
1,334,609
1,336,879
1,338,813
1,342,773
1,345,038
1,345,848
1,346,218
1,351,925
52: 1,347,777
53: 1,341,853
1,346,568
1,351,509
54: 1,328,760
1,335,638
1,347,821
1,348,817
55: 1,344,547
56: 1,334,630
1,340,278
1,340,304
1,340,612
1,343,083
1,344,480
1,346,697
1,353,380
1,353,491
1,363,750
57: 1,334,174
1,350,384
59: 1,326,954
1,327,464
1,329,291
1,330,000
1,332,832
1,334,954
1,336,556
1,337,932
1,338,284
1,339,871
1,341,185
1,341,628
1,343,136
1,345,789
1,348,086
1,348,283
1,348,860
1,352,309
1,354,749
1,355,765
1,361,119
1,361,248
1,362,642
60: 1,348,423
61: 1,331,741
1,332,021
1,337,570
1,337,773
1,339,285
1,339,343
1,346,782
1,349,587
1,350,082
1,352,137
1,352,666
62: 1,335,498
1,338,963
1,344,669
1,345,914
1,349,307
1,350,108
1,360,661
63: 1,328,590
1,328,711
1,329,812
1,331,196
1,334,176
1,338,493
1,338,502

Digitized by Google

Classification of patents—Continued.

46— 63: 1,340,001
1,349,190
1,352,510
1,353,764
1,357,109
1,360,299
1,361,616
1,362,218
64: 1,329,355
1,335,088
1,335,511
1,336,169
1,339,013
1,343,984
1,344,983
1,349,615
1,363,769
65: 1,345,277
1,362,318
66: 1,329,235
1,329,254
67: 1,345,988
69: 1,331,952
1,333,005
1,336,910
1,344,255
1,344,963
1,345,241
1,347,510
1,354,021
70: 1,330,452
1,332,084
1,332,085
1,332,918
1,342,247
1,350,614
1,358,111
71: 1,354,744
180: 1,348,272
184: 1,363,514
47— 11: 1,347,270
12: 1,336,580
1,337,803
1,338,612
1,359,388
1,361,464
18: 1,344,526
1,353,709
1,357,732
19: 1,334,069
1,357,777
22: 1,340,631
23: 1,357,738
25: 1,336,307
27: 1,331,388
1,360,669
1,360,827
30: 1,330,112
31: 1,355,579
33: 1,351,249
34: 1,331,261
35: 1,335,845
1,353,404
36: 1,333,411
37: 1,357,523
41: 1,351,490
48— 4: 1,328,553
1,331,430
1,334,506
1,344,867
1,350,819
1,357,596
1,359,755
11: 1,327,001
22: 1,360,878
23: 1,332,250
25: 1,336,573
27: 1,334,505
1,347,840
1,356,711
41: 1,328,016
1,353,455
52: 1,328,227
1,337,805
1,360,682
61: 1,351,104
73: 1,332,369
74: 1,360,503
1,362,559
76: 1,329,744
1,349,497
83: 1,353,977
85.1: 1,341,044
85.2: 1,327,861
1,350,472
1,350,475
86: 1,327,893
1,350,473
1,350,474
92: 1,357,998
101: 1,355,530
102: 1,337,108
1,357,922

48— 103: 1,361,137
104: 1,327,117
107: 1,349,755
118.2: 1,345,905
119: 1,363,588
128: 1,332,529
1,362,207
171: 1,329,129
180: 1,327,699
1,328,102
1,328,199
1,329,324
1,330,695
1,333,978
1,334,549
1,335,680
1,342,193
1,344,706
1,345,791
1,351,236
1,355,527
1,359,279
1,361,260
1,362,028
192: 1,328,485
1,363,801
198: 1,330,772
1,360,876
199: 1,329,400
202: 1,337,537
204: 1,340,495
205: 1,329,853
207: 1,362,089
211: 1,351,193
214: 1,352,241
219: 1,345,878
49— 2: 1,338,500
1,352,396
3: 1,334,569
1,341,262
1,345,628
1,345,629
1,346,571
1,347,202
1,363,450
5: 1,328,273
1,331,512
1,331,528
1,331,536
1,333,143
1,338,604
1,348,365
1,350,375
1,356,174
7: 1,330,707
1,332,725
1,335,733
1,338,499
1,338,941
1,342,821
1,343,179
8,31: 1,344,325
9: 1,329,253
1,331,472
1,337,723
12: 1,328,864
14: 1,328,799
1,329,841
1,331,847
1,336,028
1,336,317
1,346,528
1,357,231
1,361,855
16: 1,353,294
17: R. 14,794
1,328,268
1,331,796
1,338,261
1,339,229
1,342,533
1,349,200
1,349,201
1,355,449
1,358,360
1,359,200
1,362,378
17.1: R. 14,911
1,328,673
1,329,065
1,330,097
1,335,653
1,336,056
1,343,186
1,347,131
1,351,833
1,354,391
1,361,635
18: 1,335,533
19: 1,342,786
20: 1,331,772
32: 1,341,547
34: 1,343,014

49— 36: 1,334,647
1,334,648
37: 1,329,624
1,331,792
38: 1,340,366
1,343,987
44: 1,331,916
1,352,881
46: 1,342,233
1,351,323
1,361,604
47: 1,334,453
1,338,240
1,338,992
1,341,031
50: 1,339,200
1,359,172
52: 1,347,972
53: 1,333,903
1,338,109
55: 1,329,851
1,331,467
1,331,511
1,332,404
1,338,214
1,343,183
1,349,551
1,350,448
1,350,464
1,353,115
1,353,276
1,353,907
1,353,953
1,362,785
56: 1,327,405
1,347,181
1,363,622
58: 1,362,756
61: 1,342,080
62: 1,350,552
63: 1,337,633
69: 1,331,471
76: 1,342,056
77: 1,328,530
1,334,725
1,342,042
1,342,960
1,351,710
1,352,700
1,360,585
77.5: 1,331,377
78: 1,349,686
78.1: 1,330,611
1,343,686
79: 1,332,725
81: 1,342,267
1,342,268
82: 1,335,544
82.1: 1,350,441
83.1: 1,356,739
92: 1,342,252
1,345,792
1,355,625
50— 8: 1,349,443
11: 1,361,278
1,364,061
14: 1,337,248
23: 1,332,069
1,341,766
26: 1,335,903
51— 1: 1,327,648
1,336,751
1,338,598
1,344,865
1,348,050
1,353,979
3: R. 14,822
1,331,037
1,332,074
1,322,778
1,335,102
1,336,685
1,341,500
1,343,522
1,355,211
1,356,330
1,356,361
1,356,656
4: 1,327,639
1,327,875
1,328,337
1,328,469
1,328,603
1,328,894
1,328,953
1,329,701
1,329,884
1,330,083
1,332,437
1,333,100
1,334,339
1,334,479
1,334,773

51— 4: 1,334,797
1,335,472
1,335,608
1,335,905
1,335,979
1,335,994
1,336,014
1,337,139
1,337,140
1,337,617
1,338,178
1,338,212
1,338,355
1,338,685
1,339,027
1,339,746
1,339,860
1,340,030
1,340,031
1,340,408
1,340,409
1,341,800
1,341,984
1,342,375
1,343,011
1,345,919
1,346,173
1,346,420
1,346,783
1,348,502
1,350,804
1,351,409
1,351,581
1,352,038
1,357,044
1,357,045
1,361,134
5: 1,328,563
1,330,383
1,331,843
1,352,583
6: 1,346,804
1,356,736
1,356,737
7: 1,329,857
1,330,514
1,330,981
1,331,996
1,332,009
1,333,114
1,335,223
1,335,354
1,335,813
1,336,200
1,336,533
1,338,319
1,338,320
1,339,043
1,339,202
1,339,511
1,341,099
1,341,799
1,343,342
1,346,004
1,347,656
1,350,951
1,352,703
1,353,254
1,355,345
10: 1,331,850
1,334,818
11: 1,327,440
1,327,830
1,328,242
1,329,370
1,329,371
1,329,373
1,329,865
1,331,480
1,332,896
1,336,921
1,338,406
1,343,710
1,343,711
1,345,374
1,347,570
1,354,925
12: 1,326,913
1,330,768
1,332,248
1,334,224
1,337,353
1,346,501
1,357,924
1,358,766
13: 1,330,959
1,337,352
1,343,350
1,352,582
1,353,966
1,353,967
1,356,337
1,356,338

51— 14: 1,356,339
1,331,789
1,358,251
15: 1,329,551
1,331,984
16: 1,327,498
1,332,044
1,334,234
1,334,295
1,335,611
1,339,397
1,344,522
1,346,212
1,350,884
1,355,813
17: 1,349,499
1,351,290
1,353,821
20: 1,327,244
1,336,098
1,338,920
1,339,185
1,347,948
29: 1,340,756
1,341,001
1,345,043
1,352,840
1,357,408
1,362,469
34: 1,344,168
48: 1,352,790
52: 1,351,580
1,352,872
58: 1,343,492
59: 1,359,364
73: 1,360,485
80: 1,357,956
90: 1,361,850
99: 1,359,718
106: 1,359,545
108: 1,361,883
1,362,763
120: 1,343,050
130: 1,345,468
131: 1,347,653
1,347,766
134: 1,361,085
145: 1,343,981
164: 1,360,511
165: 1,349,222
170: 1,363,312
178: 1,340,991
182: 1,349,123
187: 1,352,805
193: 1,353,207
203: 1,343,959
205: R. 15,001
1,346,036
206: 1,354,860
209: 1,351,021
210: 1,342,275
1,360,998
211: 1,340,751
216: 1,355,616
1,355,870
217: 1,358,998
220: 1,359,271
225: 1,363,194
228: 1,362,045
231: 1,354,456
1,362,239
237: 1,356,068
238: 1,364,006
240: 1,361,854
241: 1,349,009
245: 1,361,736
259: 1,355,710
261: 1,359,699
268: 1,351,908
273: 1,357,308
278: 1,352,598
280: 1,353,197
1,360,343
1,361,719
52— 1: 1,327,985
1,334,303
1,355,203
2: 1,329,525
1,349,411
1,350,465
1,353,805
3: 1,327,859
1,329,211
1,329,212
1,331,032
1,334,462
1,336,463
1,336,661
1,337,451
1,338,091
1,341,207
1,341,705
1,343,083

52— 3: 1,343,077
1,343,317
1,348,741
1,349,983
1,354,442
1,354,640
1,355,197
1,356,986
1,358,653
1,361,020
4: 1,335,785
1,352,121
5: 1,330,279
1,329,537
1,331,058
1,332,438
1,338,389
1,339,975
1,341,012
6: 1,335,788
1,335,789
1,335,790
1,339,142
1,339,143
1,339,144
1,339,145
1,339,146
1,339,147
1,339,148
1,339,149
1,339,150
1,357,865
8: 1,357,764
12: 1,360,397
1,360,398
1,360,399
17: 1,348,257
20: 1,357,733
23: 1,359,922
25: 1,363,095
27: 1,360,282
1,360,283
53— 1: 1,326,942
1,331,530
1,331,620
1,330,663
1,329,989
1,332,019
1,335,306
1,333,330
1,334,930
1,337,010
1,337,876
1,337,981
1,338,129
1,338,547
1,340,336
1,340,566
1,341,353
1,341,731
1,341,972
1,342,888
1,343,114
1,343,738
1,344,836
1,345,119
1,346,283
1,347,971
1,348,807
1,349,508
1,351,142
1,353,282
1,354,385
1,360,977
1,361,364
1,362,224
1,362,882
2: 1,330,868
1,352,824
3: 1,327,532
1,329,353
1,335,048
1,335,761
1,336,491
1,337,964
1,338,830
1,339,008
1,341,285
1,341,520
1,343,582
1,344,039
1,344,161
1,344,511
1,345,477
1,345,947
1,346,485
1,347,142
1,349,236
1,351,258
1,351,410
1,352,069
1,357,051
1,357,744

Digitized by Google

Classification of patents—Continued.

53— 3: 1,357,445
1,359,355
1,360,935
1,361,441
1,362,054
1,362,522
1,362,616
1,362,644
4: 1,332,023
1,329,566
1,339,662
1,360,606
5: 1,327,258
1,328,702
1,336,565
1,337,043
1,337,122
1,343,129
1,344,915
1,345,590
1,349,529
1,353,203
1,358,932
1,359,749
6: 1,330,209
1,335,530
1,336,292
1,338,344
1,339,625
1,340,659
1,343,395
1,343,991
1,345,625
1,346,076
1,349,302
1,362,178
7: 1,330,564
1,332,057
1,332,251
1,333,389
1,341,748
1,342,444
1,345,342
1,350,030
1,350,651
1,355,332
1,356,432
1,356,573
8: 1,328,001
1,328,558
1,328,652
1,333,760
1,334,908
1,345,457
1,345,514
1,346,355
1,347,428
1,348,048
1,349,567
1,350,728
1,350,817
1,354,085
1,361,348
1,363,632
9: 1,330,169
1,336,869
1,338,553
1,348,963
10: 1,336,734
1,349,494
11: 1,328,304

54— 1: 1,357,823
2: 1,354,410
6: 1,351,620
7: 1,335,964
10: 1,341,715
12: 1,345,075
15: 1,333,474
18: 1,331,454
19: 1,354,994
1,356,407
20: 1,331,488
21: 1,347,712
24: 1,340,271
1,352,557
26: 1,357,923
27: 1,358,348
30: 1,339,777
38: 1,341,708
1,345,577
39: 1,328,922
46: 1,335,826
49: 1,352,406
1,357,161
56: 1,338,610
63: 1,333,555
65: 1,338,931
74: 1,352,812
77: 1,344,354
78: 1,343,147
79: 1,335,032
80: 1,355,057
83: 1,351,619

54— 84: 1,328,312
55— 1: 1,338,991
1,345,332
1,349,026
3: 1,342,454
1,353,007
8: 1,361,037
9: 1,328,331
1,334,005
1,336,313
1,341,009
10: 1,334,069
1,356,972
1,362,065
11: 1,328,963
1,362,409
1,362,895
13: 1,339,605
1,362,030
17: 1,351,948
1,354,021
18: 1,327,030
19: 1,327,424
1,328,156
1,333,477
1,336,642
20: 1,330,150
1,355,038
23: 1,329,953
1,364,007
24: 1,332,021
1,358,210
29: 1,363,375
31: 1,327,337
32: 1,350,512
38: 1,328,124
1,344,256
39: 1,328,121
1,328,537
1,329,102
1,339,436
1,341,196
1,352,386
1,361,201
42: 1,334,586
43: 1,335,006
44: 1,337,499
45: 1,331,734
1,340,624
1,354,069
51: 1,341,861
1,347,962
1,358,639
1,358,694
58: 1,331,057
59: 1,336,024
60: 1,331,731
1,334,647
1,336,076
1,343,805
1,346,382
1,350,529
1,362,934
61: 1,329,154
1,341,825
1,353,026
65: 1,328,063
1,334,081
66: 1,333,068
1,335,336
1,343,558
1,358,223
68: 1,356,146
70: 1,335,878
1,362,035
71: 1,360,120
73: 1,329,998
1,333,145
1,333,845
74: 1,341,365
1,359,660
75: 1,345,966
76: 1,332,148
77: 1,328,171
1,330,531
1,331,722
1,337,241
1,337,425
1,344,819
80: 1,329,118
1,348,830
1,357,905
81: 1,362,854
82: 1,327,119
83: 1,331,229
1,334,562
1,336,676
1,336,687
1,337,448
1,341,824
1,344,159
1,351,501
84: 1,342,614

55— 84: 1,348,887
85: 1,357,235
88: 1,341,159
1,348,100
89: 1,329,580
91: 1,333,780
1,334,559
1,343,827
103: 1,341,538
1,341,539
1,345,869
106: 1,354,534
107: 1,327,760
1,335,962
1,337,481
1,339,874
1,342,795
1,344,966
1,351,287
1,353,403
1,354,857
108: 1,333,324
1,340,796
1,345,189
1,347,596
1,357,163
109: 1,345,315
1,345,964
118: 1,329,220
125: 1,358,743
128: 1,336,421
134: 1,328,697
135: 1,362,836
136: 1,329,404
137: 1,333,485
1,334,255
138: 1,346,322
144: 1,332,454
146: 1,334,909
1,336,861
1,338,459
1,343,366
1,360,813
152: 1,355,494
1,363,444

56— 1: 1,332,495
1,360,975
6: 1,358,351
7: 1,327,924
1,330,293
1,338,285
9: 1,344,626
10: 1,339,278
1,339,924
1,344,624
12: 1,342,528
13: 1,332,580
1,355,787
15: 1,332,916
16: 1,328,791
1,340,461
1,357,145
18: 1,338,773
20: 1,350,012
22: 1,345,070
1,357,711
23: 1,354,267
25: 1,332,799
1,335,366
1,348,685
1,351,014
1,351,039
26: 1,357,396
27: 1,331,481
1,337,452
1,348,178
1,362,425
30: 1,346,282
31: 1,328,385
32: 1,328,386
1,329,067
1,334,760
1,335,035
1,336,176
1,341,039
1,341,959
1,344,205
1,351,398
1,355,786
41: 1,334,369
43: 1,363,288
44: 1,340,577
53: 1,346,197
58: 1,340,816
1,346,159
59: 1,362,912
1,363,099
60: 1,356,619
63: 1,327,997
64: 1,351,665
68: 1,327,305
76: 1,333,540
78: 1,344,017

56— 79: 1,347,569
85: 1,349,858
100: 1,361,033
102: 1,342,369
105: 1,336,578
106: 1,345,927
112: 1,347,559
119: 1,342,640
1,344,761
120: 1,328,668
129: 1,346,182
135: 1,344,130
153: 1,347,733
184: 1,363,617
192: 1,329,64[illegible]
193: 1,339,674
202: 1,338,873
205: 1,355,014
207: 1,329,366
219: 1,334,033
220: 1,337,193
1,343,884
226: 1,331,304
1,336,536
232: 1,328,836
1,337,655
1,358,112
247: 1,348,847
249: 1,338,144
1,354,169
250: 1,329,971
255: 1,351,185
258: 1,338,199
259: 1,344,852
263: 1,351,520
271: 1,362,667
272: 1,329,698
276: 1,358,401
283: 1,354,052
284: 1,335,897
291: 1,353,891
294: 1,348,471
1,355,509
295: 1,336,257
299: 1,353,450
300: 1,340,868
1,347,330
303: 1,341,212
304: 1,331,842
307: 1,357,165
308: 1,343,896
312: 1,349,809
1,359,794
316: 1,336,267
1,354,242
320: 1,337,863
325: 1,353,631
326: 1,338,272
328: 1,330,488
329: 1,381,029
330: 1,348,132
1,353,172
1,354,283
1,360,473
1,362,285
332: 1,362,471
335: 1,329,481
1,330,699
1,336,648
339: 1,363,456
344: 1,336,065
345: 1,361,369
346: 1,331,482
347: 1,345,936
1,357,115
348: 1,344,552
351: 1,340,763
1,359,942
352: 1,348,212
358: 1,356,230
1,356,722
359: 1,350,887
1,353,202
360: 1,338,215
1,348,091
1,361,685
361: 1,347,141
363: 1,353,586
366: 1,329,468
367: 1,334,953
375: 1,329,888
385: 1,331,317
393: 1,351,158
395: 1,340,391
1,341,819
1,344,963
1,350,218
398: 1,354,558
400: 1,358,481
401: 1,335,419
402: 1,344,348
404: 1,355,108
1,363,549

56— 407: 1,328,795
408: 1,360,683
410: 1,346,543
411: 1,358,683
412: 1,331,224
1,346,974
417: 1,328,674
1,341,586
1,346,542
1,356,503
1,361,322
419: 1,332,104
1,348,046
1,357,537
1,361,307
422: 1,341,167
1,343,775
423: 1,345,381
1,356,308
424: 1,340,781
1,357,269
474: 1,340,088
476: 1,331,352
480: 1,328,781
1,343,624
1,349,435
57— 9: 1,326,969
1,334,839
1,337,101
13: 1,333,152
18: 1,329,057
1,348,142
1,357,607
34: 1,327,059
1,331,878
1,334,370
1,345,673
110: 1,334,649
116: 1,342,699
1,343,410
1,351,792
128: 1,333,511
58— 1: 1,358,642
4: 1,336,150
8: 1,361,063
10: 1,361,424
14: 1,343,302
1,345,584
16: 1,327,669
1,331,276
1,361,413
17: 1,332,076
19: 1,333,178
1,350,693
1,359,263
22: 1,332,569
23: 1,334,423
24: 1,338,309
1,338,328
1,350,382
26: 1,328,247
1,335,148
28: 1,329,083
30: 1,335,147
1,363,841
31: 1,334,422
35: 1,353,935
42: 1,235,053
43: 1,344,913
46: 1,331,163
1,358,457
53: 1,345,766
1,351,853
54: 1,341,298
56: 1,327,051
1,338,221
1,355,343
1,363,311
59: 1,333,161
63: 1,353,040
66: 1,327,391
68: 1,354,179
1,354,300
72: 1,361,613
86: 1,339,941
88: 1,340,003
1,357,978
1,359,083
96: 1,348,388
104: 1,338,609
105: 1,348,866
107: 1,350,035
116: 1,343,798
117: 1,336,263
121: 1,327,226
1,345,318
1,359,005
125: 1,350,131
127: 1,338,745
127.5: 1,336,204
138: 1,327,392
59— 7: 1,342,417
16: 1,348,541

59— 22: 1,362,897
25: 1,340,639
27: 1,360,020
1,360,021
35: 1,346,507
37: 1,349,506
61: 1,360,204
69: 1,327,853
77: 1,357,319
78: 1,327,365
1,341,052
80: 1,340,765
87: 1,358,108
89: 1,335,377
90: 1,332,295
1,332,559
1,346,439
91: 1,333,194
93: 1,362,523
95: 1,327,013
1,358,814
96: 1,339,631
97: 1,352,622
98: 1,333,655
1,343,495
99: 1,338,085
1,341,228
60— 1: 1,356,424
3: 1,331,459
4: 1,342,544
6: 1,354,885
1,354,886
11: 1,339,177
1,347,279
12: 1,336,392
1,337,323
13: 1,329,811
1,339,483
1,340,527
1,353,733
14: 1,332,633
1,333,749
1,343,449
1,344,090
1,345,319
1,349,619
1,352,616
15: 1,328,685
1,331,665
1,336,668
1,342,723
1,347,087
1,350,570
1,353,842
16: 1,334,550
1,336,616
1,338,159
1,339,176
1,342,108
1,343,226
1,344,739
1,349,308
18: 1,327,753
23: 1,337,764
24: 1,342,501
26: 1,343,577
27: 1,330,795
1,361,330
28: 1,363,001
29: 1,327,769
30: 1,335,518
37: 1,343,536
39: 1,327,159
40: 1,349,969
1,356,463
41: 1,331,281
1,331,559
1,331,766
1,332,397
1,332,427
1,332,804
1,333,204
1,339,730
1,340,563
1,341,229
1,342,314
1,343,473
1,346,509
1,346,565
1,348,103
1,350,880
1,357,993
42: 1,332,367
1,355,671
43: 1,332,189
1,349,578
44: 1,328,088
1,328,160
1,331,538
1,332,807
1,341,854
1,351,983
1,363,256

Digitized by Google

Classification of patents—Continued.

60— 45: 1,334,614
1,363,992
46: 1,359,513
47: 1,333,139
1,333,140
51: 1,340,547
52: 1,343,117
1,358,454
1,359,679
53: 1,330,889
1,331,485
1,331,714
1,333,012
1,343,338
1,343,749
1,346,086
1,348,738
1,349,924
1,353,355
1,354,209
1,354,592
1,354,777
1,358,054
1,363,068
54: 1,327,080
57: 1,342,682
1,347,805
1,349,036
1,355,962
59: 1,343,056
61: 1,360,122
66: 1,328,951
67: 1,342,841
70: 1,327,510
1,328,497
1,334,576
1,339,508
1,342,177
1,343,671
1,345,641
1,358,469
90: 1,354,238
91: 1,341,443
94: 1,328,593
1,346,413
1,352,438
95: 1,343,665
1,347,436
1,353,706
96: 1,330,827
1,330,863
1,349,743
1,360,506
102: 1,331,110
1,343,666
105: 1,345,757
61— 2: 1,351,979
3: 1,355,051
1,355,052
1,363,600
1,363,691
4: 1,353,001
10: 1,344,656
1,351,578
1,362,419
11: 1,355,066
12: 1,355,222
13: 1,333,296
1,343,571
1,350,229
15: 1,353,254
20: 1,333,443
1,333,444
1,347,829
1,348,313
22: 1,348,354
23: 1,363,820
24: 1,329,679
1,354,869
26: 1,353,285
28: 1,344,043
1,352,929
29: 1,330,957
1,350,684
1,359,915
32: 1,351,588
36: 1,327,268
1,327,269
37: 1,332,655
1,352,429
1,359,475
38: 1,359,575
39: 1,338,503
1,347,459
1,349,166
1,356,319
1,360,767
1,362,852
41: 1,331,186
1,358,070
1,361,516
42: 1,329,317
1,338,030

61— 43: 1,337,176
1,363,115
44: 1,337,751
45: 1,350,556
1,353,274
46: 1,336,188
1,337,533
1,350,690
47: 1,340,670
48: 1,358,951
55: 1,360,986
56: 1,340,307
1,346,222
57: 1,342,424
1,348,994
62: 1,330,240
1,341,949
63: 1,363,665
64: 1,349,992
65: 1,335,497
66: 1,327,285
1,327,286
1,350,844
1,356,109
67: 1,339,293
69: 1,343,744
1,346,743
1,349,578
1,356,773
1,361,899
70: 1,335,775
71: 1,327,679
1,349,060
1,359,132
74: 1,352,128
77: 1,359,956
80: 1,347,688
1,356,646
84: 1,338,237
1,342,503
1,351,137
85: 1,355,290
86: 1,347,332
89: 1,337,096
62— 4: 1,329,350
1,330,866
1,340,646
8: 1,350,550
12: 1,336,048
19: 1,355,205
33: 1,345,746
37: 1,356,283
45: 1,336,789
55: 1,362,686
61: 1,334,107
67: 1,350,655
90: 1,327,214
91: 1,356,325
92: 1,343,051
95: 1,350,453
101: 1,352,532
106: 1,327,414
108: 1,360,315
109: 1,339,659
110: 1,335,319
115: 1,344,502
1,362,757
116: 1,337,175
1,342,964
1,358,010
117: 1,341,744
1,352,533
118: R. 14,884
R. 14,885
1,337,888
1,339,622
1,345,001
119: 1,342,403
122: 1,326,961
1,327,906
1,354,058
1,354,059
123: 1,354,380
124: 1,330,160
126: 1,332,703
136: 1,327,560
143: 1,336,172
148: 1,353,018
155: 1,359,695
159: 1,331,283
1,356,317
171: 1,342,123
172: 1,348,352
175: 1,354,056
1,354,057
178: 1,331,356
1,331,600
63— 4: 1,344,365
1,357,139
15: 1,326,977
1,327,606
1,330,617
1,334,859

63— 15: 1,344,111
1,362,995
17: 1,341,218
18: 1,342,035
1,362,384
21: 1,340,206
23: 1,363,567
27: 1,362,748
28: 1,328,948
1,328,949
1,330,993
1,332,206
1,343,246
1,351,205
1,353,822
1,356,027
29: 1,349,102
64— 4: 1,333,256
1,335,736
1,341,440
1,347,165
1,352,511
1,352,784
1,354,406
1,354,407
1,355,461
1,357,881
1,359,909
1,362,967
1,363,015
1,363,471
5: 1,331,980
1,338,293
1,338,405
1,339,893
1,340,120
1,348,905
1,357,540
8: 1,336,542
1,350,670
1,353,153
10: 1,327,301
1,328,451
1,328,591
1,331,961
1,332,056
1,332,395
1,332,465
1,334,763
1,335,668
1,337,238
1,339,084
1,345,063
1,348,020
1,348,400
1,348,602
1,350,245
1,354,200
1,354,259
1,355,060
1,355,706
1,356,037
1,359,438
1,359,580
1,359,898
1,360,157
1,360,243
1,361,471
1,362,122
1,362,163
1,362,733
1,363,663
12: 1,341,595
14: 1,344,527
1,358,301
1,361,474
17: 1,329,935
1,330,911
1,331,156
1,331,489
1,332,130
1,333,122
1,334,688
1,335,421
1,337,135
1,339,574
1,343,152
1,346,511
1,347,985
1,349,408
1,352,829
1,352,997
1,353,074
1,358,205
1,359,321
1,362,363
1,363,772
18: 1,329,620
1,329,790
1,331,173
1,333,367
1,337,136
1,351,197

64— 18: 1,352,761
1,359,822
1,359,842
19: 1,358,786
1,360,244
20: 1,338,491
1,358,906
1,361,000
21: 1,357,047
22: 1,327,173
1,328,234
1,336,428
1,336,540
1,350,429
1,353,095
1,356,046
1,358,034
1,359,139
1,359,428
23: 1,335,297
1,335,298
1,335,299
1,342,164
1,344,175
1,348,433
1,360,194
1,363,924
24: 1,327,136
1,327,429
1,328,209
1,329,241
1,334,090
1,336,373
1,337,201
1,337,202
1,337,203
1,337,597
1,338,160
1,339,476
1,341,415
1,344,067
1,345,334
1,346,682
1,349,076
1,349,871
1,351,196
1,353,875
1,354,544
1,355,277
1,356,630
1,358,588
1,358,668
1,362,571
25: R. 14,878
1,331,108
1,331,113
1,338,340
1,339,228
1,342,384
1,344,267
1,345,254
1,347,248
1,349,157
1,361,073
1,362,848
26: 1,328,787
1,329,499
1,329,948
1,331,440
1,336,413
1,350,851
1,354,768
1,354,903
1,355,266
27: 1,336,654
1,341,420
1,344,495
1,355,901
1,355,950
1,356,918
1,357,072
1,359,683
1,359,771
1,361,722
1,362,390
28: 1,352,303
29: 1,330,832
30: 1,328,983
1,331,311
1,333,336
1,335,833
1,339,811
1,350,986
1,357,965
1,357,966
1,358,011
31: 1,334,535
32: 1,354,922
33: 1,344,465
34: 1,340,808
36: R. 14,792
1,330,579
1,332,176

64— 36: 1,332,444
1,332,815
1,333,883
1,334,027
1,334,620
1,335,040
1,336,812
1,337,656
1,337,881
1,337,882
1,338,091
1,339,308
1,340,663
1,343,321
1,343,876
1,346,121
1,346,417
1,347,077
1,347,519
1,348,500
1,351,481
1,353,874
1,355,652
1,356,444
1,356,848
1,359,506
1,361,154
1,361,398
38: 1,337,028
1,338,868
1,339,277
1,342,541
1,350,680
39: 1,327,026
1,328,179
1,329,720
1,331,686
1,335,766
1,340,693
1,344,276
1,344,524
1,346,163
1,346,443
1,347,522
1,351,754
1,356,326
1,356,766
1,359,007
1,361,497
41: 1,345,515
1,349,183
43: 1,334,511
1,356,917
45: 1,330,988
1,332,467
1,362,778
46: 1,362,946
47: 1,337,742
48: 1,329,848
1,332,376
1,337,087
1,344,749
1,345,089
1,346,873
1,352,204
1,353,958
1,361,283
1,362,619
1,362,712
49: 1,328,017
1,328,716
1,330,158
1,332,205
1,332,282
1,340,396
1,342,756
1,346,377
1,346,400
1,354,863
1,354,949
1,355,350
1,362,747
50: 1,334,265
1,334,266
51: 1,332,235
52: 1,329,217
1,333,490
1,347,644
1,348,002
1,348,734
1,352,869
1,353,986
1,358,437
1,361,187
53: 1,345,461
1,348,022
1,348,023
1,348,183
55: 1,350,607
1,338,351
1,340,102
1,341,968
1,342,059

64— 55: 1,347,443
1,347,687
1,348,705
1,349,449
1,350,953
1,356,561
1,360,787
1,361,319
1,362,176
1,362,584
56: 1,356,842
1,357,420
1,359,235
58: 1,353,044
1,363,705
59: 1,327,169
1,329,089
1,332,271
1,336,352
1,340,250
1,340,310
1,346,323
1,351,160
1,352,110
1,361,177
1,362,097
60: 1,351,497
61: 1,343,885
62: 1,327,003
1,330,829
1,338,939
1,339,991
1,340,941
1,341,873
1,344,868
1,346,147
1,350,263
1,355,303
1,355,304
1,356,790
1,358,420
1,358,444
1,358,848
1,360,430
1,363,340
64: 1,338,747
1,338,763
1,344,858
1,344,859
1,345,805
1,353,971
1,357,798
1,357,800
1,357,804
1,357,805
1,357,806
1,357,809
1,357,834
1,360,780
65: 1,342,101
1,355,198
1,357,770
1,357,798
1,357,797
1,357,799
1,357,802
1,357,807
1,357,808
1,357,810
1,357,811
1,357,812
1,360,781
1,360,782
1,360,783
1,361,483
66: 1,334,226
1,334,890
1,339,455
67: 1,331,540
70: 1,334,564
1,340,456
1,349,230
72: 1,341,019
79: 1,328,879
1,357,562
80: 1,338,904
81: 1,342,142
1,342,784
89: 1,328,065
1,328,095
1,335,168
1,335,169
1,341,615
1,348,166
1,349,428
1,358,079
1,359,989
90: 1,331,267
1,338,751
1,340,610
1,345,735
1,356,860
1,363,140

Digitized by Google

Classification of patents—Continued.

64— 91: R. 15,004
1,328,449
1,331,775
1,335,913
1,340,368
1,340,447
1,349,197
1,351,420
1,352,019
1,352,864
1,355,603
1,358,267
1,358,467
1,359,354
1,359,601
1,362,652
94: 1,334,388
95: 1,342,300
96: 1,326,993
1,328,366
1,328,893
1,331,748
1,332,755
1,332,962
1,334,439
1,334,537
1,334,557
1,335,740
1,337,646
1,343,121
1,343,413
1,345,394
1,345,896
1,348,184
1,350,011
1,350,500
1,352,251
1,352,953
1,353,677
1,355,516
1,356,024
1,358,537
1,359,157
1,360,565
1,360,867
1,362,048
1,362,033
1,362,646
97: 1,363,849
98: 1,328,688
100: 1,348,415
101: 1,345,446
102: 1,327,791
1,333,988
1,336,985
1,343,728
1,344,707
1,346,776
1,354,912
1,356,899
1,357,320
1,358,037
1,358,221
1,360,788
1,360,818
1,361,573
1,362,000
103: 1,330,051
1,346,253
104: 1,332,966
105: 1,339,273
106: 1,333,131
1,338,122
1,346,245
107: 1,349,329
1,357,553
65— 5: 1,352,004
10: 1,361,766
12: 1,327,929
1,332,035
1,335,998
1,354,709
1,362,023
1,362,031
13: 1,329,203
1,340,886
1,341,756
1,344,179
15: 1,333,208
1,333,209
1,343,606
1,357,940
1,359,056
20: 1,346,380
1,346,958
1,355,577
26: 1,330,505
1,337,540
28: 1,335,029
1,337,814
1,341,261
31: 1,340,872
1,344,072

65— 31: 1,344,404
1,356,754
1,357,629
36: 1,330,548
1,333,387
45: 1,328,568
1,331,444
1,339,173
1,342,524
1,346,007
1,348,468
1,349,591
1,349,716
1,349,795
1,350,120
1,351,602
1,352,701
1,354,333
1,362,442
46: 1,345,948
47: 1,328,827
1,332,043
1,350,383
1,351,646
1,355,330
1,360,321
48: 1,339,164
49: 1,340,551
51: 1,330,689
53: 1,330,568
1,332,776
1,333,884
1,336,776
1,338,833
1,345,949
1,349,099
1,351,285
54: 1,350,223
57: 1,328,447
1,330,720
1,337,789
1,354,626
58: 1,356,995
60: 1,347,419
61: 1,334,342
1,343,099
1,344,802
1,346,451
1,350,908
1,351,330
1,351,331
1,355,593
1,356,409
1,360,215
62: 1,349,165
1,349,582
1,353,222
65: 1,327,437
1,327,982
1,341,343
1,346,909
1,349,084
1,349,155
1,357,123
1,359,125
66: 1,353,305
66— 4: 1,327,217
1,333,763
1,337,294
1,339,592
1,344,468
1,346,516
1,346,517
1,352,078
1,353,659
1,359,112
5: 1,333,156
1,333,157
1,339,959
1,354,096
6: 1,335,218
1,338,809
1,346,790
1,351,329
1,361,055
7: 1,332,031
1,340,152
1,342,245
1,354,379
1,358,483
10: 1,345,303
1,349,741
1,350,445
1,355,298
12: 1,335,281
1,335,633
1,340,681
1,340,695
1,341,324
1,346,049
1,349,298
1,352,079
1,356,060

66— 12: 1,357,252
1,357,253
1,357,254
1,358,264
1,359,250
1,359,258
17: 1,340,255
1,340,541
1,347,027
1,351,016
1,355,878
1,358,067
21: 1,331,118
1,347,186
1,348,144
1,351,883
1,359,249
1,359,307
22: 1,327,122
1,356,092
23: 1,361,291
24: 1,328,580
1,330,818
1,337,099
1,339,715
26: 1,345,408
1,349,132
27: 1,334,597
28: 1,339,708
32: 1,348,195
1,353,793
33: 1,327,228
1,346,136
34: 1,355,196
67— 3: 1,328,788
1,363,429
6: 1,327,585
1,334,522
1,341,785
1,358,722
6.1: 1,327,813
1,351,511
1,360,232
7: 1,346,194
7.1: 1,342,838
1,353,334
1,359,003
1,360,202
13: 1,348,523
14: 1,347,532
19: 1,335,831
1,354,090
20.1: 1,329,716
1,350,678
21: 1,350,461
23: 1,331,709
1,336,635
1,344,446
1,355,696
29: 1,332,048
1,332,173
30: 1,350,730
31: 1,333,030
1,345,201
1,354,999
33: 1,330,149
36: 1,339,788
1,345,960
1,360,387
37: 1,342,446
1,342,849
41: 1,362,966
49: 1,354,856
50: 1,327,161
1,337,620
1,338,636
1,340,424
1,344,200
1,345,448
53: 1,341,122
59: 1,339,699
61: 1,331,167
63: 1,343,672
1,343,673
1,354,083
65: 1,335,011
1,356,898
66: 1,330,845
68: 1,349,010
69: 1,327,858
70: 1,327,048
72: 1,337,795
1,337,825
77: 1,343,217
78: 1,347,749
79: 1,329,222
1,345,141
87: 1,340,843
1,350,573
1,350,574
1,350,575
1,350,588
1,350,589

67— 88: 1,354,730
96: 1,351,128
1,356,153
98: 1,327,447
1,350,853
105: 1,338,038
111: 1,342,160
115: 1,346,000
116: 1,356,103
117: 1,352,538
121: 1,335,401
1,356,793
1: 1,329,880
3: 1,329,541
1,329,855
1,332,323
1,333,520
1,334,795
1,336,186
1,338,266
1,340,159
1,341,591
1,345,324
1,350,380
1,351,335
1,352,273
1,352,994
1,354,109
1,357,383
1,360,144
1,360,189
1,360,846
1,360,951
5: 1,338,277
6: 1,345,019
1,350,028
9: 1,326,982
1,327,613
1,327,976
1,328,807
1,329,509
1,329,512
1,332,711
1,332,892
1,335,151
1,335,835
1,336,415
1,336,427
1,337,204
1,339,917
1,340,519
1,340,522
1,350,379
1,350,383
1,351,031
1,351,688
1,354,232
1,354,871
1,355,557
1,356,044
1,356,321
1,357,218
1,357,337
1,358,879
1,362,735
1,362,918
1,362,980
10: 1,329,257
1,330,724
1,331,035
1,332,715
1,335,857
1,336,433
1,337,512
1,337,936
1,339,831
1,340,265
1,342,109
1,342,278
1,342,362
1,342,660
1,347,132
1,347,464
1,350,857
1,352,259
1,352,361
1,352,923
1,353,729
1,356,378
1,357,017
1,359,124
1,359,527
1,359,744
1,362,278
12: 1,326,911
1,330,082
1,349,325
1,350,208
1,350,978
15: 1,360,464
18: 1,330,948
1,337,552
1,338,172

68— 18: 1,339,588
1,345,761
1,346,391
1,347,617
1,358,168
1,358,405
1,358,601
1,360,333
1,362,240
1,363,892
19: 1,333,916
1,355,045
1,356,433
1,356,996
1,359,721
20: 1,341,073
1,345,003
1,362,148
21: 1,347,667
1,353,829
22: 1,360,160
24: 1,331,515
26: 1,326,928
1,328,766
1,340,257
1,347,224
1,349,052
27: 1,332,039
1,343,699
1,347,123
1,355,326
29: 1,331,427
1,331,890
1,334,385
1,338,030
1,339,292
1,353,792
1,354,075
1,356,973
1,359,524
1,362,943
30: 1,332,858
1,337,810
1,338,442
1,347,354
1,349,545
1,352,505
1,363,805
31: 1,337,272
1,337,997
1,342,807
1,357,749
32: 1,327,526
1,327,527
1,327,690
1,327,766
1,328,361
1,329,570
1,330,830
1,333,991
1,335,957
1,336,883
1,340,772
1,342,004
1,342,005
1,344,835
1,346,816
1,348,797
1,355,006
1,355,916
1,356,186
1,358,868
1,358,762
1,358,763
34: 1,340,494
1,344,060
1,345,023
1,345,624
1,353,670
1,354,420
1,354,421
1,362,890
37: 1,329,441
1,332,257
1,338,501
1,340,543
1,350,353
1,353,791
69— 1: 1,331,056
1,355,481
1,362,762
1,363,221
2: 1,337,069
8: 1,346,258
1,352,987
1,353,823
9: 1,354,572
9.5: 1,329,294
1,342,120
1,345,941
1,348,221
1,349,119
10: 1,351,153

69— 13: 1,336,597
14: 1,334,323
15: 1,335,049
1,362,964
16: R. 14,876
1,327,028
1,342,430
1,358,140
17: 1,339,776
19: 1,331,487
70— 1.26: 1,361,784
2: 1,330,167
1,357,725
5: 1,330,672
1,335,586
1,346,655
1,360,057
7: 1,343,615
8: 1,341,439
1,359,190
9: 1,333,887
1,337,085
1,340,850
1,350,749
1,353,722
14: 1,329,418
1,332,958
1,335,027
1,336,505
1,337,137
1,339,267
1,344,613
1,350,226
1,350,896
1,362,514
15: 1,351,117
16: 1,327,426
1,338,515
1,350,108
17: 1,329,691
1,331,778
1,347,467
1,348,169
1,363,599
18: 1,327,406
1,327,601
1,342,075
1,351,484
1,353,064
1,359,982
19: 1,331,933
1,339,446
1,340,583
20: 1,358,404
23: 1,360,590
24: 1,342,334
26: 1,337,083
1,337,928
1,347,047
1,359,070
27: 1,331,781
1,344,846
1,352,680
29: 1,336,080
1,341,599
1,346,142
1,352,010
1,352,819
1,355,123
1,355,725
1,357,446
1,358,445
1,358,885
1,360,351
1,364,024
31: 1,336,617
1,358,036
42: 1,329,719
1,332,874
45: 1,327,916
46: 1,328,074
1,334,852
1,335,821
1,337,511
1,343,187
1,343,438
1,343,712
1,346,364
1,346,670
1,350,299
1,351,838
1,352,239
1,357,122
1,360,280
1,360,489
1,360,622
47: 1,330,650
1,333,189
1,334,292
1,338,053
1,340,804
50: 1,343,731
1,361,317

Digitized by Google

Classification of patents—Continued.

70— 53: 1,327,140
1,337,242
1,338,796
1,339,668
1,341,876
1,342,157
1,343,048
1,343,145
1,344,469
1,345,574
1,345,575
1,345,787
1,347,516
1,347,708
1,348,621
1,352,890
1,353,487
1,353,583
1,355,776
1,356,314
1,356,645
1,357,716
1,357,581
1,358,672
1,362,417
54: 1,341,602
1,346,080
1,358,654
1,358,877
55: 1,329,041
1,335,959
1,351,806
56: 1,327,457
1,337,243
60: 1,335,581
63: 1,353,257
69: 1,342,465
74: 1,337,386
1,341,038
1,346,143
75: 1,356,747
1,359,347
78: 1,330,856
82: 1,330,184
90: R.14,956
1,328,619
1,329,784
1,330,394
1,331,084
1,331,942
1,332,075
1,332,097
1,333,878
1,334,500
1,336,384
1,337,568
1,337,709
1,338,512
1,341,281
1,343,192
1,343,424
1,343,709
1,343,856
1,345,014
1,345,828
1,346,135
1,346,371
1,346,763
1,347,262
1,347,564
1,347,871
1,348,744
1,348,960
1,349,490
1,350,497
1,351,297
1,351,644
1,353,117
1,353,143
1,353,408
1,353,541
1,354,071
1,354,102
1,354,896
1,358,184
1,359,068
1,359,213
1,359,419
1,359,433
1,360,338
1,360,674
1,360,692
1,361,108
1,361,756
1,362,016
1,362,451
1,362,955
1,363,285
1,363,676
1,363,766
91: 1,339,721
1,350,356
1,351,568

70— 91: 1,358,211
97: 1,334,950
1,346,414
1,352,073
105: 1,330,378
1,335,231
1,338,605
1,340,928
1,344,517
1,348,884
1,349,682
1,350,392
1,352,018
1,359,415
108: 1,333,355
1,338,150
1,341,169
1,343,064
1,348,234
112: 1,337,674
1,354,773
1,355,387
113: 1,332,821
1,336,309
1,342,033
1,345,020
1,352,771
1,355,084
1,360,943
1,363,582
115: 1,328,106
1,354,606
121: 1,334,997
122: 1,328,109
1,332,513
1,339,075
1,361,615
123: 1,333,309
124: 1,339,412
1,357,463
1,357,720
125: 1,349,139
1,354,322
1,363,225
126: 1,327,979
1,329,526
1,329,644
1,331,642
1,331,873
1,332,902
1,337,654
1,338,913
1,340,226
1,342,748
1,343,405
1,343,459
1,343,907
1,343,970
1,343,990
1,346,098
1,346,762
1,348,337
1,348,649
1,348,802
1,348,903
1,348,840
1,349,849
1,351,001
1,350,526
1,352,489
1,352,693
1,353,119
1,353,120
1,354,172
1,354,963
1,359,729
1,361,391
127: 1,329,391
1,342,728
1,345,672
1,362,685
1,363,373
128: 1,330,117
1,333,093
1,333,215
1,335,532
1,338,131
1,338,945
1,340,051
1,340,393
1,344,554
1,345,618
1,347,110
1,347,252
1,348,453
1,348,868
1,348,891
1,349,973
1,350,316
1,350,810
1,356,863
1,360,534
1,362,377

70— 129: 1,328,186
1,328,691
1,328,882
1,329,114
1,329,913
1,330,414
1,330,926
1,333,581
1,334,987
1,335,865
1,336,379
1,339,329
1,341,925
1,342,151
1,342,276
1,346,815
1,346,837
1,347,463
1,348,547
1,349,027
1,350,841
1,351,651
1,352,132
1,352,491
1,354,153
1,354,630
1,356,079
1,356,511
1,358,106
1,358,416
1,358,744
1,359,921
1,360,616
1,360,673
1,360,675
1,361,264
1,363,432
1,363,448
130: 1,341,055
1,351,095
1,358,681
131: 1,327,432
1,348,841
1,359,883
132: 1,341,325
1,342,020
1,362,124
71— 1: 1,329,105
1,329,727
6: 1,330,369
1,347,822
1,347,823
7: 1,348,495
1,351,672
1,354,719
1,357,120
1,360,401
1,360,402
8: 1,348,320
9: 1,340,708
1,341,598
1,345,076
1,347,401
1,347,798
1,348,990
1,350,591
1,354,822
1,355,369
1,360,248
10: 1,341,030
1,354,808
1,355,732
1,361,596
1,361,597
93: 1,353,931
72— 1: 1,332,409
1,334,634
1,345,880
1,349,850
1,352,815
6: 1,334,921
1,338,484
1,350,434
1,354,507
1,356,155
1,360,408
7: 1,331,172
1,333,423
1,333,602
1,337,559
1,339,920
1,342,812
1,351,313
1,362,882
8: 1,331,871
1,344,929
13: 1,339,062
1,343,832
1,359,065
1,360,170
14: 1,347,934
1,355,360
15: 1,329,614

72— 15: 1,335,780
1,348,445
1,353,373
15.5: 1,329,471
1,356,788
1,358,787
16: 1,329,893
1,332,505
1,342,062
1,345,871
1,350,019
1,355,572
1,355,667
1,360,978
17: R.14,992
18: 1,359,893
24: 1,334,842
25: 1,361,501
28: 1,363,018
30: 1,327,584
1,334,672
1,343,926
1,345,156
1,346,016
1,351,471
1,353,046
1,353,702
31: 1,357,675
35: 1,330,249
1,335,384
37: 1,349,793
1,353,515
38: 1,338,509
1,339,596
1,340,656
1,347,247
1,349,552
1,350,835
1,356,590
1,356,591
39: 1,355,580
1,356,348
1,357,125
1,362,327
40: 1,356,347
41: 1,330,203
1,334,599
1,341,071
1,342,404
1,343,312
1,344,803
1,347,533
1,350,399
1,350,490
1,350,656
1,358,055
1,360,183
43: 1,330,884
1,336,025
46: 1,327,292
1,330,347
1,339,360
1,343,637
1,348,009
1,348,018
1,350,633
48: 1,349,600
1,349,868
51: 1,338,885
1,345,829
1,346,687
1,357,702
52: 1,332,387
1,334,484
1,361,027
1,363,056
53: 1,344,779
1,346,629
1,346,673
1,351,895
56: 1,327,889
1,329,643
1,334,871
1,334,872
1,341,270
1,356,025
63: 1,336,683
66: 1,328,555
1,329,978
1,330,370
1,338,567
1,339,388
1,343,659
1,347,146
1,350,805
1,353,770
1,358,999
68: 1,329,292
1,354,560
70: 1,344,767
71: 1,334,729
1,340,291
1,360,812

72— 71: 1,360,979
76: 1,361,558
82: 1,334,881
1,339,819
1,353,309
1,156,514
84: 1,333,523
1,334,519
1,335,617
85: 1,332,503
1,339,220
1,348,483
88: 1,340,459
90: 1,342,329
1,357,246
94: 1,344,608
1,347,980
95: 1,342,918
1,362,947
96: 1,336,718
1,353,377
1,359,978
1,360,890
98: 1,335,378
1,352,678
99: 1,331,193
1,362,931
100: 1,350,306
105: 1,333,880
1,340,752
1,341,585
1,347,633
1,348,801
1,350,964
1,351,112
1,351,119
1,352,199
1,352,201
1,352,245
1,356,269
1,356,401
1,359,290
106: 1,357,713
1,359,283
107: 1,335,886
1,337,767
1,355,097
1,361,831
108: 1,362,749
109: 1,345,663
110: R.14,941
1,336,547
1,344,882
1,344,882
1,344,941
1,358,518
1,362,188
111: 1,336,166
1,339,226
116: 1,351,694
117: 1,359,675
118: 1,327,741
1,328,201
1,334,607
121: 1,346,437
1,357,018
1,361,843
122: R.14,825
1,331,288
1,333,120
1,342,349
1,343,326
1,350,335
1,352,642
1,356,021
1,356,315
1,361,102
1,362,707
124: 1,327,446
1,333,553
1,333,579
1,333,628
1,356,707
1,357,350
127: 1,334,600
130: 1,332,232
131: 1,331,097
136: 1,348,516
138: 1,327,151
1,342,439
1,347,938
1,348,639
1,353,014
1,354,443
166: 1,362,399
73— 1: 1,341,056
1,342,886
1,344,714
1,347,340
1,350,067
1,351,842
2: 1,352,391
4: 1,351,130

73— 4: 1,353,482
5: 1,349,718
21: 1,333,191
1,362,968
24: 1,336,380
1,347,106
28: 1,340,298
1,341,898
31: 1,330,466
1,330,513
1,334,143
1,336,511
1,337,969
1,338,981
1,341,582
1,346,427
1,346,428
1,352,038
1,354,017
1,356,687
1,359,834
1,361,142
32: 1,327,800
1,339,952
1,344,462
1,363,267
1,363,964
50: 1,355,554
51: 1,327,251
1,329,160
1,331,777
1,332,571
1,334,028
1,334,785
1,335,887
1,337,390
1,341,431
1,343,954
1,344,301
1,344,515
1,347,316
1,350,358
1,350,368
1,350,458
1,351,738
1,352,905
1,353,810
1,355,969
1,355,970
1,359,799
1,363,258
1,363,799
52: 1,326,957
1,331,553
1,333,601
1,333,813
1,343,088
1,343,454
1,345,687
1,345,795
1,348,210
1,348,749
1,350,158
1,358,372
1,361,271
1,363,259
1,363,803
54: 1,329,150
1,330,047
1,332,341
1,333,839
1,334,703
1,335,570
1,335,904
1,339,383
1,339,561
1,345,799
1,345,870
1,347,398
1,347,701
1,352,565
1,354,023
1,354,296
1,355,697
1,358,374
1,359,014
1,359,958
1,361,303
1,361,576
1,362,257
55: 1,359,406
62: 1,330,537
1,348,591
68: 1,339,909
82: 1,330,457
1,332,276
1,335,196
1,344,663
1,345,154
1,355,939
1,358,829
1,363,982
98: 1,338,852

Digitized by Google

Classification of patents—Continued.

73— 109: 1,328,895
1,330,311
1,339,989
1,340,198
1,345,630
1,363,415
110: 1,328,876
1,338,436
1,340,148
1,340,399
1,344,340
1,344,722
1,346,941
1,349,884
1,352,719
111: 1,328,572
1,333,549
1,334,874
1,336,104
1,337,455
1,341,542
1,346,604
1,347,022
1,349,346
1,352,697
1,352,698
1,361,285
118: 1,334,960
1,356,175
120: 1,348,524
1,353,193
1,354,788
148: 1,334,955
151: 1,336,925
1,338,358
165: 1,340,275
167: 1,331,159
1,338,504
1,347,143
1,349,409
1,355,075
1,355,764
1,360,612
184: 1,344,813
1,354,568
1,359,914
187: 1,335,238
1,355,661
74— 1: 1,331,076
1,331,746
1,333,500
1,336,803
1,336,847
1,339,276
1,348,892
1,349,661
1,350,094
1,350,997
1,351,753
1,353,369
1,353,493
1,357,413
1,362,266
1,362,700
5: 1,327,793
1,328,252
1,328,350
1,330,602
1,332,228
1,333,207
1,333,684
1,335,960
1,337,081
1,337,111
1,340,802
1,340,823
1,342,648
1,343,407
1,344,128
1,349,251
1,349,660
1,350,269
1,350,270
1,351,417
1,354,470
1,355,438
1,355,468
1,358,317
1,359,644
6: 1,333,135
1,337,417
1,346,755
1,352,005
1,359,848
7: 1,327,276
1,327,302
1,327,303
1,327,304
1,327,504
1,327,950
1,328,217
1,328,440
1,328,670

74— 7: 1,328,934
1,329,159
1,330,232
1,330,326
1,330,834
1,330,848
1,330,869
1,330,883
1,330,985
1,331,405
1,332,061
1,334,008
1,334,279
1,334,486
1,335,345
1,336,107
1,336,950
1,337,376
1,337,460
1,338,032
1,338,116
1,338,362
1,340,829
1,341,217
1,341,286
1,342,262
1,342,687
1,343,031
1,343,963
1,344,150
1,344,288
1,344,439
1,345,576
1,347,117
1,347,220
1,347,265
1,347,730
1,348,147
1,348,202
1,348,288
1,348,289
1,348,673
1,351,317
1,351,318
1,351,319
1,351,320
1,351,321
1,351,322
1,351,470
1,351,485
1,351,737
1,351,761
1,351,860
1,352,112
1,352,131
1,352,803
1,354,157
1,355,170
1,355,607
1,356,231
1,356,451
1,356,915
1,357,674
1,357,931
1,357,932
1,358,434
1,358,547
1,358,615
1,359,670
1,359,703
1,359,853
1,359,954
1,360,171
1,360,428
1,360,691
1,360,858
1,361,480
1,362,423
1,363,003
1,363,077
8: 1,328,064
1,336,498
13: 1,327,068
1,327,559
1,327,656
1,328,502
1,330,641
1,332,487
1,334,253
1,336,752
1,340,897
1,342,352
1,344,598
1,353,370
1,353,914
14: 1,327,192
1,328,379
1,330,393
1,330,598
1,330,610
1,331,035
1,331,102
1,331,760

74— 14: 1,332,595
1,332,708
1,332,864
1,334,021
1,334,045
1,334,328
1,334,608
1,334,659
1,334,784
1,335,519
1,335,898
1,336,322
1,336,703
1,336,863
1,337,280
1,337,608
1,338,078
1,338,427
1,340,329
1,342,019
1,344,732
1,344,989
1,345,980
1,346,139
1,346,672
1,346,893
1,347,243
1,347,981
1,348,880
1,349,094
1,349,283
1,350,106
1,350,250
1,351,978
1,352,894
1,353,063
1,353,368
1,353,451
1,354,377
1,354,766
1,354,955
1,357,288
1,359,304
1,361,646
1,361,674
1,363,050
1,363,493
1,363,495
16: 1,328,493
1,331,097
1,332,270
1,334,489
1,338,139
1,338,485
1,338,641
1,352,631
17: 1,328,600
1,329,389
1,330,285
1,334,518
1,337,138
1,338,171
1,340,171
1,340,172
1,340,173
1,347,104
1,350,580
1,352,627
1,355,261
1,361,235
1,362,503
20: 1,335,086
1,341,849
21: 1,328,834
1,336,117
1,338,455
1,345,479
1,347,674
1,347,842
1,357,316
1,361,578
1,363,786
26: 1,327,209
1,327,210
1,329,867
1,330,298
1,330,526
1,335,809
1,336,581
1,336,747
1,341,477
1,342,791
1,353,211
1,354,486
1,358,447
1,359,153
1,359,422
1,359,786
1,359,950
1,361,466
1,361,753
1,362,655
1,363,338

74— 26: 1,363,831
1,363,999
27: 1,354,237
1,356,410
1,359,335
1,360,597
1,362,164
1,362,901
28: 1,330,482
1,341,914
1,343,047
1,354,717
1,357,719
1,358,189
1,361,919
29: 1,334,517
1,341,466
1,347,907
1,349,082
1,350,043
1,361,035
31: 1,327,925
1,358,942
1,360,930
32: 1,335,673
1,335,696
1,338,808
1,339,523
1,345,818
1,352,017
1,361,821
33: 1,329,934
1,330,178
1,330,260
1,330,578
1,330,860
1,331,210
1,331,326
1,331,327
1,331,595
1,333,024
1,334,417
1,340,638
1,341,032
1,342,060
1,343,531
1,344,343
1,345,142
1,347,156
1,348,193
1,348,476
1,350,773
1,351,382
1,351,405
1,351,603
1,351,689
1,358,482
1,358,989
1,361,272
34: 1,328,517
1,328,588
1,329,297
1,330,822
1,333,176
1,333,729
1,333,952
1,334,003
1,334,401
1,334,791
1,335,811
1,337,531
1,337,578
1,337,602
1,337,906
1,338,767
1,339,643
1,341,223
1,341,442
1,342,195
1,343,944
1,344,280
1,344,727
1,345,494
1,348,095
1,348,251
1,348,690
1,350,324
1,350,822
1,352,269
1,353,390
1,353,775
1,357,563
1,357,769
1,359,387
1,359,896
1,360,216
1,360,533
1,360,693
1,361,003
1,363,142
1,363,907
35: 1,347,671
1,348,902

74— 36: 1,334,468
1,334,713
1,336,286
1,336,758
1,337,395
1,338,377
1,339,097
1,341,309
1,341,616
1,343,107
1,345,110
1,347,802
1,348,822
1,349,719
1,351,267
38: 1,329,783
1,329,945
1,332,565
1,336,546
1,342,683
1,347,178
1,349,893
1,355,439
1,360,974
1,363,466
1,363,571
1,363,957
39: 1,328,761
1,328,899
1,329,079
1,329,142
1,330,715
1,330,912
1,331,426
1,331,685
1,331,801
1,332,443
1,333,092
1,333,951
1,334,654
1,335,597
1,339,660
1,341,256
1,341,566
1,342,372
1,345,685
1,345,788
1,346,130
1,346,209
1,348,997
1,350,213
1,350,692
1,351,671
1,353,379
1,356,641
1,358,378
1,358,826
1,359,248
1,359,385
1,360,508
1,360,894
1,361,061
1,361,195
1,361,374
1,362,102
1,362,758
40: 1,330,053
1,332,823
1,346,997
1,350,560
1,352,716
41: 1,327,107
1,329,535
1,329,807
1,332,151
1,333,364
1,338,672
1,338,823
1,340,011
1,341,685
1,342,170
1,343,923
1,347,492
1,349,811
1,351,401
1,355,543
1,358,191
1,360,358
1,361,168
43: 1,348,189
45: R. 14,857
1,328,172
1,329,050
1,333,530
1,334,488
1,334,499
1,339,380
1,347,187
1,349,050
1,349,401
1,352,419
46: 1,327,501
1,327,955

74— 46: 1,328,145
1,328,253
1,328,635
1,329,011
1,329,431
1,329,876
1,330,042
1,330,500
1,330,506
1,330,559
1,330,751
1,331,561
1,332,856
1,333,782
1,333,997
1,334,350
1,334,783
1,335,263
1,335,911
1,335,980
1,336,606
1,337,992
1,339,052
1,339,058
1,339,203
1,339,474
1,339,587
1,340,301
1,340,333
1,341,268
1,341,767
1,342,023
1,342,363
1,342,762
1,342,965
1,343,690
1,343,750
1,344,345
1,345,397
1,345,398
1,345,442
1,346,082
1,346,378
1,346,573
1,346,713
1,346,872
1,347,214
1,347,893
1,349,216
1,349,763
1,349,970
1,350,126
1,350,487
1,350,781
1,350,796
1,351,486
1,351,839
1,352,006
1,352,282
1,352,333
1,352,827
1,354,070
1,354,345
1,354,872
1,354,895
1,355,159
1,356,406
1,356,419
1,357,560
1,357,643
1,358,312
1,358,471
1,359,442
1,359,599
1,360,080
1,360,337
1,360,879
47: 1,329,645
48: 1,327,940
1,333,112
1,348,208
1,349,033
49: 1,346,611
50: 1,331,807
1,334,594
1,335,754
1,336,086
1,347,221
1,347,975
1,353,902
1,354,621
1,357,999
1,358,294
1,358,295
1,363,556
51: 1,339,408
1,340,113
1,348,240
52: 1,342,254
1,349,338
1,349,470
1,356,007
1,359,416

Digitized by Google

Classification of patents—Continued.

74— 54: 1,327,942
1,329,000
1,332,800
1,334,728
1,336,108
1,340,486
1,341,998
1,342,249
1,345,290
1,345,909
1,351,399
1,351,938
1,354,645
1,357,759
1,358,051
55: 1,327,250
1,331,828
1,339,411
56: 1,327,681
1,327,891
1,329,713
1,333,214
1,335,082
1,336,715
1,336,716
1,336,729
1,339,758
1,339,766
1,350,522
1,351,680
1,353,812
1,356,774
1,357,735
1,359,208
1,359,553
1,360,857
1,363,155
1,363,882
58: 1,326,935
1,327,832
1,328,724
1,329,476
1,329,779
1,329,798
1,329,901
1,331,012
1,331,139
1,331,475
1,331,759
1,331,814
1,334,242
1,335,249
1,336,796
1,338,974
1,339,477
1,340,585
1,341,237
1,342,175
1,342,887
1,342,928
1,343,131
1,343,132
1,343,189
1,344,319
1,345,462
1,345,497
1,345,688
1,346,376
1,347,690
1,348,935
1,349,212
1,349,939
1,350,255
1,352,530
1,352,800
1,352,925
1,353,438
1,354,039
1,354,303
1,354,689
1,354,948
1,355,346
1,355,506
1,355,864
1,356,948
1,358,275
1,358,655
1,358,899
1,360,035
1,362,783
1,362,790
1,363,628
1,363,629
1,363,661
1,363,662
1,363,674
1,363,675
1,363,700
1,363,701
1,363,719
1,363,875
1,363,906
1,364,017

74— 59: R. 14,952
1,328,062
1,328,220
1,328,754
1,330,080
1,330,740
1,330,880
1,331,891
1,334,917
1,338,086
1,338,303
1,341,392
1,342,126
1,342,587
1,342,920
1,344,236
1,344,606
1,345,633
1,346,532
1,347,804
1,347,924
1,348,160
1,349,742
1,349,958
1,350,288
1,351,393
1,351,597
1,352,125
1,352,293
1,353,240
1,353,461
1,354,423
1,354,956
1,356,728
1,357,712
1,358,895
1,359,109
1,362,490
1,362,507
1,363,044
60: 1,347,661
1,352,603
62: 1,356,890
63: 1,329,190
1,335,280
1,341,470
1,357,917
64: 1,334,926
1,344,475
1,363,034
65: 1,360,456
66: 1,332,390
1,339,287
1,332,391
1,332,727
1,333,040
69: 1,341,395
1,350,018
1,352,359
1,352,462
70: R. 14,797
1,327,046
1,328,966
1,330,590
1,338,980
1,342,525
78: 1,330,501
1,330,503
1,342,397
1,358,258
1,359,333
79: 1,327,616
1,331,026
1,332,161
1,333,738
1,334,498
1,339,454
1,341,326
1,341,334
1,341,349
1,343,305
1,343,846
1,344,005
1,345,308
1,349,415
1,350,285
1,351,937
1,352,572
1,352,659
1,352,868
1,355,570
1,360,518
81: R. 14,946
1,327,137
1,328,400
1,330,986
1,331,408
1,332,098
1,333,535
1,335,314
1,335,628
1,335,631
1,336,856

74— 81: 1,337,685
1,341,222
1,341,504
1,343,378
1,344,466
1,344,602
1,346,361
1,346,746
1,347,227
1,347,841
1,348,188
1,350,228
1,350,272
1,351,745
1,353,755
1,358,488
1,361,060
1,363,082
1,363,083
83: 1,334,561
84: 1,332,317
1,337,921
1,348,287
1,362,422
85: 1,327,147
1,329,822
1,344,592
1,348,371
86: 1,328,526
1,330,748
1,352,585
87: 1,354,781
88: 1,333,733
1,334,134
94: 1,354,703
95: 1,338,196
97: 1,346,151
1,346,888
1,354,724
98: 1,356,051
99: 1,329,319
1,331,662
1,332,535
1,334,325
1,336,532
1,337,369
1,337,411
1,341,276
1,344,107
1,345,847
1,350,194
1,350,276
1,352,130
1,352,590
1,352,910
1,354,475
1,354,937
1,358,788
1,359,961
1,361,731
1,361,895
1,362,360
1,362,361
100: 1,338,720
1,355,297
1,361,963
101: 1,331,565
1,340,328
1,346,635
1,348,630
1,349,695
103: 1,330,690
1,334,158
1,347,293
1,351,292
1,363,113
104: 1,335,745
1,337,635
105: 1,329,564
1,330,850
1,330,908
1,331,551
1,338,780
1,343,178
1,351,997
1,357,427
1,358,528
106: 1,329,037
1,330,091
1,331,552
1,337,249
1,340,620
1,342,649
1,345,278
1,347,961
1,353,178
1,353,786
1,353,936
1,354,670
1,355,759
1,356,423
1,358,842
1,361,300

74— 106: 1,362,243
1,362,861
1,363,213
107: 1,331,161
1,336,462
1,339,435
108: 1,327,895
1,329,820
1,329,821
1,329,823
1,331,555
1,331,573
1,332,213
1,332,760
1,335,179
1,336,690
1,336,691
1,338,169
1,339,427
1,339,956
1,341,548
1,345,221
1,346,845
1,347,478
1,347,479
1,347,480
1,347,819
1,348,640
1,348,988
1,350,747
1,351,238
1,351,239
1,352,460
1,354,287
1,355,030
1,355,519
1,356,695
1,357,851
1,358,364
1,358,825
1,359,130
1,361,297
1,363,708
1,363,725
109: R. 14,969
1,330,188
1,330,189
1,333,023
1,334,104
1,334,764
1,334,888
1,335,339
1,335,951
1,336,342
1,336,670
1,337,651
1,340,650
1,342,380
1,343,828
1,344,342
1,346,237
1,346,806
1,348,146
1,348,274
1,348,641
1,348,953
1,348,998
1,349,728
1,350,549
1,351,369
1,353,041
1,353,082
1,354,547
1,354,548
1,355,237
1,356,183
1,356,258
1,356,461
1,357,181
1,357,392
1,357,729
1,357,949
1,358,243
1,359,596
1,360,498
1,360,585
1,360,783
1,360,820
1,360,939
1,360,967
1,361,393
1,361,672
1,363,239
1,363,278
1,363,281
1,364,005
110: 1,356,032
112: 1,340,321
1,343,005
1,343,006
114: 1,361,481
1,361,482
115: 1,340,323

74— 115: 1,361,455
1,361,484
118: 1,340,322
119: 1,342,599
1,343,097
1,356,084
120: 1,343,007
1,343,008
1,343,009
1,343,061
1,346,971
75— 1: 1,326,971
1,327,398
1,328,694
1,330,231
1,331,175
1,332,899
1,333,151
1,333,237
1,333,654
1,333,666
1,333,706
1,333,965
1,334,089
1,334,193
1,335,284
1,335,982
1,335,983
1,335,991
1,335,992
1,336,081
1,337,093
1,337,209
1,337,210
1,337,276
1,338,517
1,338,518
1,338,826
1,338,966
1,339,009
1,339,378
1,339,505
1,340,451
1,341,508
1,341,774
1,341,992
1,342,911
1,342,913
1,342,993
1,344,165
1,344,566
1,345,732
1,346,187
1,346,192
1,346,343
1,346,344
1,349,648
1,349,918
1,350,166
1,350,359
1,350,709
1,350,891
1,350,892
1,350,893
1,351,404
1,351,673
1,351,811
1,352,271
1,352,272
1,352,322
1,352,367
1,352,534
1,354,988
1,354,989
1,354,990
1,355,202
1,355,532
1,355,589
1,355,590
1,355,769
1,355,811
1,356,367
1,357,272
1,357,549
1,357,550
1,358,147
1,358,831
1,358,908
1,359,064
1,359,194
1,359,813
1,360,045
1,360,269
1,360,272
1,360,339
1,360,346
1,360,347
1,360,348
1,360,773
1,362,455
1,362,719
1,362,788
1,363,564

75— 14: 1,328,636
1,329,055
1,340,548
1,348,804
1,349,598
1,353,716
1,360,562
1,360,711
17: 1,338,764
1,340,580
1,341,686
1,343,656
1,344,977
1,346,728
1,348,356
1,349,322
1,350,286
1,350,419
1,360,830
1,362,408
1,362,570
18: 1,327,974
1,331,334
1,333,688
1,333,985
1,334,420
1,335,000
1,335,001
1,335,474
1,336,386
1,337,058
1,341,601
1,343,153
1,343,619
1,346,175
1,346,642
1,347,200
1,353,773
1,357,952
1,358,096
1,358,619
1,360,271
1,360,666
19: 1,339,544
1,339,545
1,355,906
1,358,854
27: 1,335,370
1,336,256
1,345,051
1,345,192
1,352,710
1,353,126
1,359,268
1,361,589
28: 1,333,721
45: 1,347,741
1,354,490
1,354,491
1,356,551
1,359,473
1,361,036
46: 1,342,701
49: 1,361,383
50: 1,333,824
1,339,469
55: 1,358,136
1,363,332
1,362,381
58: 1,336,420
1,348,458
62: 1,348,457
1,348,470
1,349,382
1,352,912
64: 1,355,795
65: 1,334,331
1,334,981
73: 1,343,249
1,343,250
1,356,100
77: 1,330,846
78: 1,341,890
80: 1,348,408
85: 1,363,657
153: 1,331,740
185: 1,361,459
197: 1,327,743
1,351,865

76— 1: 1,353,535
5: 1,327,720
1,349,330
5: 1,355,082
26: 1,327,713
30: 1,336,042
32: 1,329,423
33: 1,327,012
35: 1,330,606
1,338,173
1,339,153
1,349,685
36: 1,328,159
37: 1,336,959

Digitized by Google

Classification of patents—Continued.

76— 37: 1,354,941
40: 1,329,036
42: 1,335,433
46: 1,328,554
1,342,462
48: 1,347,965
54: 1,356,073
59: 1,349,614
1,361,927
60: 1,348,622
64: 1,333,828
1,356,221
69: 1,342,327
70: 1,334,905
1,361,777
78: 1,342,236
82: 1,337,154
1,339,725
1,359,192
84: 1,352,888
85: 1,350,888
1,352,324
87: 1,335,603
90: 1,345,921
95: 1,349,169
101: 1,327,099
1,327,100
1,327,101
1,339,152
1,341,436
1,348,296
1,348,297
1,348,298
1,348,299
1,348,300
1,348,301
1,348,302
1,348,303
1,348,305
1,348,306
1,348,308
1,348,309
1,357,815
104: 1,356,628
107: 1,327,652
107.4: 1,331,140
112: 1,341,806
113: 1,360,892
114: 1,340,560
77— 1: 1,328,409
2: 1,343,517
1,344,410
1,360,444
3: 1,337,393
1,363,506
4: 1,331,052
6: 1,333,743
1,335,244
1,346,217
1,353,051
1,361,664
7: 1,328,111
1,335,154
1,343,180
1,344,910
11: 1,341,292
19: 1,337,205
21: 1,339,461
22: 1,340,953
24: 1,350,004
1,360,081
1,361,160
28: 1,328,429
1,336,955
1,338,752
1,350,525
1,354,488
32: 1,330,130
1,339,044
1,343,370
1,351,969
1,352,646
1,353,836
1,358,025
1,362,913
1,362,914
1,362,915
33: 1,351,970
36: 1,329,726
38: 1,347,614
1,353,833
55: 1,329,663
1,337,682
1,362,325
56: 1,342,447
1,356,871
1,362,871
57: 1,346,230
58: 1,336,311
1,336,466
1,337,015
1,341,565
1,350,394

77— 58: 1,357,042
1,362,529
59: 1,339,958
1,350,240
60: 1,354,715
61: 1,356,571
1,359,129
62: 1,329,970
1,335,347
63: 1,340,841
1,341,841
65: 1,355,065
66: 1,334,416
69: 1,331,189
1,354,848
1,359,965
72: 1,339,118
1,348,115
1,359,963
73: 1,327,934
1,328,208
73.5: 1,327,866
1,332,777
1,349,968
75: 1,332,802
1,344,411
1,347,740
75.5: 1,346,105
1,361,209
76: 1,332,455
1,345,929
78— 1: 1,340,138
1,349,237
1,355,434
1,362,988
5: 1,334,884
7: 1,349,927
1,361,311
13: 1,347,490
14: 1,343,946
17: 1,359,625
18: 1,338,462
1,350,568
1,352,911
1,354,779
21: 1,339,054
22: 1,350,634
26: 1,336,153
1,342,782
1,346,455
27: 1,341,671
1,356,297
28: 1,327,817
29: 1,337,520
1,348,969
1,363,465
30: 1,327,331
1,337,379
33: 1,353,347
34: 1,341,545
35: 1,363,932
37: 1,352,621
40: 1,330,857
1,355,291
42: 1,346,166
1,363,021
44: 1,331,885
1,337,474
1,356,908
45: 1,332,968
46: 1,335,227
1,335,812
1,339,453
1,352,851
1,360,897
1,363,576
48: 1,360,965
49: 1,328,905
1,357,247
50: 1,332,519
1,335,807
1,336,121
1,340,196
1,348,074
1,364,015
52: 1,340,361
1,351,444
53: 1,355,363
53.5: 1,332,620
1,336,073
1,341,370
1,349,181
1,349,213
1,363,551
54: 1,330,479
1,337,128
60: R. 14,835
1,362,573
81: 1,331,095
82: 1,343,346
1,341,840
1,355,536
85: 1,346,753

78— 87: 1,356,054
1,363,326
89: 1,343,277
90: 1,341,839
92: 1,355,224
1,355,234
96: 1,340,640
79— 1: 1,333,080
3: 1,327,322
1,340,515
1,347,235
1,351,429
1,357,172
1,357,173
1,357,174
1,357,175
1,357,176
1,358,772
1,358,773
5: 1,349,974
14: 1,343,042
16: 1,328,742
1,348,190
80— 1: 1,327,919
1,354,213
1,357,207
2: 1,329,455
1,347,017
5: 1,357,055
5.1: 1,328,498
1,349,254
6: 1,359,572
8: 1,329,741
11: 1,352,493
12: 1,360,087
1,360,088
16: 1,327,635
1,333,137
1,341,891
1,350,057
18: 1,337,640
20: 1,327,525
23: 1,353,982
33: 1,361,025
35: 1,341,651
1,348,230
37: 1,343,652
38: 1,360,959
40: 1,342,130
41: 1,339,108
44: 1,342,220
1,349,021
1,356,535
48: 1,327,315
1,340,129
1,360,106
1,360,769
51: 1,329,743
54: 1,336,177
1,342,264
1,342,343
1,342,608
56: 1,330,423
1,354,976
58: 1,360,261
62: 1,341,204
66: 1,343,753
162: 1,330,113
81— 1: 1,328,197
1,331,824
1,333,881
1,341,373
3: 1,330,750
1,333,286
1,333,778
1,335,367
1,335,658
1,336,222
1,337,600
1,338,111
1,338,539
1,338,576
1,340,787
1,341,888
1,343,032
1,345,027
1,347,287
1,347,764
1,349,178
1,351,272
1,355,174
1,357,533
1,359,815
1,361,914
1,362,220
1,362,354
1,362,585
3.1: 1,330,107
1,333,136
1,337,158
1,337,899
1,341,513
1,342,848

81— 3.1: 1,348,532
1,350,180
1,355,020
1,357,353
1,357,914
1,358,452
1,359,629
1,361,639
1,363,316
3.3: 1,331,758
1,353,058
1,353,338
1,358,970
1,360,826
5: 1,331,851
9.3: 1,330,431
1,334,657
1,347,579
9.5: 1,329,155
1,337,236
1,348,413
1,349,563
1,351,186
1,354,365
10: 1,335,131
13: 1,334,352
1,335,386
1,337,084
1,350,241
1,355,560
15: 1,326,907
1,327,892
1,328,508
1,330,229
1,338,804
1,339,217
1,344,533
1,344,562
1,344,960
1,354,150
1,354,448
1,355,465
1,360,199
1,363,890
1,363,949
17: 1,336,839
1,345,403
1,349,963
18: 1,339,448
19: 1,326,999
1,332,277
1,336,229
1,336,754
1,349,632
1,353,568
1,359,775
23: 1,326,933
24: 1,362,222
26: 1,344,862
27: 1,329,377
33: 1,332,398
1,336,755
1,345,665
1,352,787
1,361,577
36: 1,332,362
1,340,147
1,340,477
1,347,623
38: 1,336,087
1,336,610
41: 1,329,602
1,333,430
1,354,991
42: 1,328,049
45: 1,331,793
53: 1,328,087
1,331,082
1,332,474
1,341,701
1,352,461
1,360,136
1,360,670
55: 1,338,549
1,343,067
56: 1,345,619
57: 1,327,991
1,333,333
1,333,532
1,341,700
1,344,265
1,346,505
1,346,716
1,353,417
1,356,555
1,356,565
1,357,707
58: 1,343,692
1,355,546
59: 1,360,051
60: 1,331,956
1,338,257
1,347,691

81— 60: 1,349,091
1,350,315
1,352,354
1,352,764
1,359,325
61: 1,330,151
62: 1,334,432
1,355,455
63: 1,350,519
64: 1,341,147
65: 1,328,744
1,355,597
66: 1,327,309
1,334,250
1,338,461
1,339,233
1,351,217
1,358,078
68: 1,341,069
70: 1,333,251
71: 1,330,673
72: 1,344,542
1,354,538
75: 1,351,354
78: 1,353,445
1,353,847
1,355,470
1,358,241
79: 1,337,986
1,343,448
1,346,963
85: 1,335,293
1,341,712
1,348,532
87: 1,332,140
88: 1,341,532
1,354,494
1,356,948
90: 1,331,366
1,344,800
91: 1,332,084
1,335,028
1,337,509
1,345,850
1,361,923
92: 1,328,389
1,333,517
97: 1,332,103
98: 1,335,252
1,337,678
1,338,313
1,359,421
1,363,274
99: 1,333,174
1,335,080
1,362,867
101: 1,362,014
102: 1,340,622
103: 1,348,032
1,353,246
105: 1,332,436
1,342,356
1,354,622
1,369,672
109: 1,351,276
111: 1,332,548
1,350,504
112: 1,327,702
1,335,590
1,359,660
113: 1,336,710
114: 1,327,524
115: 1,357,935
116: 1,342,025
117: 1,332,922
119: 1,327,379
1,335,092
1,337,102
1,341,178
1,352,136
120: 1,336,794
1,354,722
121: 1,328,428
1,334,154
1,334,261
1,360,121
1,361,130
126: 1,327,895
1,344,101
1,344,234
1,353,567
1,355,496
1,355,733
1,361,749
127: 1,354,552
130: 1,351,519
1,363,135
131: 1,342,856
1,347,491
1,348,342
133: 1,351,583
134: R. 44,791
1,332,157

81— 134: 1,344,154
1,355,883
136: 1,337,550
1,352,009
137: 1,334,156
1,363,740
139: 1,345,983
1,356,577
1,362,815
142: 1,330,666
143: 1,360,916
145: 1,336,460
1,350,672
1,355,307
1,356,923
1,361,518
1,363,819
147: 1,341,094
1,361,237
148: 1,334,636
1,345,202
151: 1,363,343
152: 1,342,643
157: 1,334,392
1,340,092
1,348,366
1,362,687
158: 1,333,956
1,356,563
1,362,413
159: 1,332,168
1,333,002
160: 1,349,762
1,349,852
162: 1,344,573
163: 1,338,376
164: 1,349,564
165: 1,348,143
1,354,782
1,361,050
166: 1,359,403
169: 1,340,287
1,343,296
1,352,729
171: 1,360,891
177: 1,332,351
1,338,278
1,347,780
1,349,553
1,357,848
1,359,894
179: 1,329,161
1,360,176
1,362,480
180: 1,335,688
1,350,671
185: 1,343,882
1,346,061
187: 1,335,660
191: 1,360,808
192: 1,330,476
194: 1,358,818
195: 1,328,940
1,338,773
1,339,641
1,357,367
197: 1,350,206
199: 1,348,735
1,354,843
1,360,620
201: 1,336,589
82— 1: 1,327,187
1,330,778
1,337,079
1,339,791
1,342,632
1,344,550
1,352,599
1,359,316
2: 1,328,962
1,332,978
1,341,946
1,349,434
1,352,673
4: 1,333,605
1,341,482
1,341,577
1,344,831
1,345,138
1,346,838
1,351,057
1,352,380
1,352,522
5: 1,339,836
1,344,536
1,347,789
8: 1,328,763
1,339,017
9: 1,345,415
1,346,271
11: 1,329,042
15: 1,358,164
19: 1,338,757

Digitized by Google

Classification of patents—Continued.

82— 19: 1,339,983
1,350,361
1,350,735
21: 1,340,811
22: 1,345,676
1,362,626
24: 1,339,984
1,342,745
1,342,746
1,342,983
1,357,682
25: 1,353,686
1,358,728
27: 1,330,881
28: 1,327,604
1,345,671
31: 1,327,356
1,357,362
1,361,792
32: 1,333,043
1,339,837
1,352,183
1,363,969
33: 1,336,843
1,338,451
1,345,368
34: 1,337,387
35: 1,329,265
1,334,775
1,342,535
36: 1,332,731
37: 1,347,988
38: 1,329,550
40: 1,336,548
1,345,644
1,357,518
1,361,120
41: 1,330,710
1,333,707
1,342,122
42: 1,331,003
43: 1,362,872
44: 1,339,877
1,343,273
1,346,890
1,346,917
1,360,449
83— 3: 1,329,742
1,361,915
6: 1,347,649
1,347,876
1,355,777
7.3: 1,350,179
8: 1,327,347
1,333,198
1,337,583
1,337,584
1,344,453
1,344,470
1,348,042
1,362,724
9: 1,328,299
1,331,964
1,333,946
1,335,269
1,336,364
1,337,033
1,337,641
1,348,642
1,351,793
1,355,474
1,357,480
1,358,782
1,360,364
1,360,465
1,360,466
1,360,648
1,360,725
1,361,205
1,361,280
1,361,281
1,361,601
1,362,334
1,363,020
1,363,990
10: 1,329,835
1,336,015
1,344,584
1,354,077
11: R. 14,365
R. 14,886
R. 14,926
1,331,968
1,331,969
1,333,727
1,339,499
1,339,950
1,340,643
1,347,717
1,350,691
1,354,855
1,355,335
1,359,215

83— 11: 1,359,303
1,359,426
1,361,054
1,361,679
1,362,948
1,363,361
12: 1,338,845
1,349,221
1,350,748
1,356,291
1,359,357
1,360,499
1,360,787
13: 1,327,385
1,336,793
1,340,635
1,348,049
1,350,261
1,355,922
14: 1,339,932
1,339,933
1,352,609
1,355,093
1,357,015
1,362,973
15: 1,336,250
1,354,016
26: 1,328,692
1,329,985
1,330,681
1,336,530
1,337,134
1,338,126
1,340,714
1,342,348
1,346,260
1,350,443
1,351,094
1,353,330
1,356,142
1,363,012
27: 1,327,444
1,344,148
1,345,840
1,360,335
1,363,053
29: 1,345,273
30: 1,337,127
31: 1,342,693
35: 1,336,848
38: 1,327,636
1,336,300
1,346,610
1,359,840
39: 1,358,559
40: 1,346,015
1,348,043
1,355,596
42: 1,330,937
1,341,200
44: 1,330,179
1,337,567
1,343,868
1,345,120
1,348,885
1,354,747
1,357,854
1,363,310
45: 1,332,220
1,332,850
1,334,701
1,337,697
1,338,421
1,342,917
1,343,041
1,345,082
1,345,714
1,345,715
1,349,235
1,352,797
1,356,292
1,358,739
1,358,837
1,363,106
49: 1,345,835
1,355,477
52: 1,351,693
1,344,578
1,351,593
1,356,465
53: 1,328,806
1,331,963
1,358,005
1,358,682
1.363,270
54: R. 14,917
1,333,197
1,333,922
1,335,422
1,337,822
1,343,497
1,346,871
1,348,252

83— 54: 1,354,063
1,356,464
1,358,375
1,359,496
56: 1,330,371
1,330,963
1,332,306
1,332,321
1,332,985
1,332,987
1,333,219
1,333,220
1,334,579
1,335,099
1,338,227
1,340,990
1,342,990
1,343,292
1,343,578
1,344,747
1,344,751
1,345,458
1,345,662
1,346,452
1,348,770
1,350,626
1,351,563
1,351,699
1,353,045
1,353,946
1,353,947
1,353,948
1,353,949
1,353,950
1,353,951
1,354,319
1,357,190
1,357,292
1,357,307
1,358,103
1,359,685
1,360,469
1,360,906
1,361,772
1,363,207
1,363,234
1,363,276
1,363,760
1,363,762
1,363,823
57: 1,353,096
1,353,097
58: 1,333,001
1,350,646
1,354,550
1,358,122
60: 1,328,174
1,330,722
1,331,303
1,333,236
1,333,419
1,336,038
1,336,937
1,341,874
1,342,989
1,344,390
1,344,493
1,345,058
1,346,809
1,346,905
1,347,064
1,347,151
1,347,489
1,348,783
1,349,492
1,350,080
1,351,296
1,351,377
1,351,931
1,351,961
1,352,067
1,354,243
1,354,415
1,354,835
1,354,847
1,355,507
1,355,508
1,356,385
1,357,129
1,357,143
1,357,610
1,357,709
1,358,920
1,359,859
1,361,267
62: 1,333,094
1,360,446
64: 1,327,740
1,331,081
1,332,606
1,336,673
1,339,098
1,343,215

83— 64: 1,344,549
1,345,215
1,345,480
1,348,748
1,355,574
1,355,726
1,357,632
1,359,239
1,359,793
1,363,232
1,363,301
65: 1,352,832
1,358,248
67: 1,327,667
1,329,113
1,336,697
1,336,963
1,336,968
1,342,567
1,346,824
1,361,723
68: 1,334,333
1,342,727
1,349,086
1,354,497
71: 1,332,078
1,339,300
1,340,457
1,346,544
1,349,501
1 360,601
1,362,072
73: R. 14,795
1,328,486
1,328,765
1,331,576
1,332,063
1,332,880
1,334,895
1,335,984
1,336,586
1,337,333
1,340,880
1,340,947
1,344,306
1,349,960
1,350,293
1,355,478
1,360,468
1,361,870
1,362,242
1,363,561
75: 1,333,659
1,333,660
1,341,156
1,342,231
1,344,180
1,359,016
79: 1,327,537
1,332,814
1,334,841
1,352,727
1,360,116
1,361,171
80: 1,328,778
81: 1,330,242
1,344,051
1,350,509
1,356,249
82: 1,326,908
1,327,885
1,327,903
1,332,751
1,334,765
1,339,682
1,339,683
1,342,038
1,351,096
1,351,234
1,352,882
1,355,070
1,361,489
1,362,448
84: 1,338,613
85: 1,328,456
1,329,127
1,329,335
1,329,493
1,334,721
1,334,733
1,334,734
1,335,600
1,335,612
1,337,548
1,338,264
1,341,024
1,341,770
1,342,115
1,343,313
1,346,286
1,346,817
1,346,818
1,346,819

83— 85: 1,350,364
1,351,155
1,352,072
1,354,031
1,356,332
1,357,556
1,357,921
1,362,370
1,362,896
86: 1,350,154
1,356,332
1,357,884
87: 1,359,105
88: 1,327,354
1,327,902
1,332,963
1,334,524
1,335,824
1,336,327
1,339,161
1,343,266
1,343,983
1,351,250
1,356,179
1,360,764
91: 1,328,446
1,329,845
1,340,353
1,340,732
1,347,927
1,348,140
1,352,623
1,355,984
1,356,780
92: 1,331,901
1,333,891
1,335,322
1,341,278
1,341,463
1,341,978
1,343,458
1,347,215
1,348,310
1,349,336
1,350,794
1,354,251
1,358,725
84— 7: 1,328,831
1,332,336
1,336,359
1,345,486
8: 1,328,038
1,330,806
1,330,831
1,343,883
10: 1,330,814
1,334,334
1,335,867
1,343,163
1,343,164
1,346,588
1,362,271
12: 1,332,668
14: 1,332,885
1,351,468
15: 1,345,987
16: 1,342,029
17: 1,327,621
1,328,976
1,344,374
1,351,110
1,354,860
22: 1,327,996
1,331,258
1,333,715
23: 1,353,667
24: 1,340,162
1,359,054
26: 1,343,516
1,351,512
1,353,647
1,353,905
1,359,420
30: 1,331,572
1,335,791
31: 1,335,010
33: 1,339,960
39: 1,356,107
1,359,698
40: 1,352,958
41: 1,353,221
1,359,040
42: 1,354,045
43: 1,328,838
1,356,706
1,363,839
44: 1,327,157
1,329,594
1,333,088
1,339,953
1,346,013
1,351,709
1,352,442

84— 44: 1,353,763
1,358,177
46: 1,344,497
48: 1,343,595
1,344,984
1,328,718
1,352,363
49: 1,355,653
50: 1,349,481
1,363,457
53: 1,349,273
1,359,456
56: 1,346,900
58: 1,346,246
59: 1,353,594
60: 1,333,657
61: 1,353,645
1,340,019
67: 1,353,903
68: 1,351,312
1,358,455
69: 1,353,753
1,354,853
72: 1,327,433
1,357,189
75: 1,332,551
1,333,827
1,344,968
78: 1,328,824
1,336,409
1,339,418
1,345,972
1,347,613
79: 1,327,970
1,353,297
80: 1,342,718
81: 1,330,078
1,347,977
85: 1,337,937
1,353,486
86: 1,354,214
87: 1,338,583
1,348,894
1,351,570
91: 1,349,631
92: 1,347,068
95: 1,335,417
96: 1,341,025
1,353,646
1,353,649
102: 1,353,648
103: 1,353,357
115: 1,332,621
1,337,459
116: 1,341,072
1,352,618
121: 1,332,552
1,338,076
1,339,318
1,341,199
1,342,202
124: 1,334,631
1,337,041
1,345,104
1,347,597
125: 1,338,108
1,341,351
1,342,846
127: 1,354,028
133: 1,335,142
1,340,098
1,345,239
135: 1,329,622
1,339,261
1,347,556
136: 1,344,574
137: 1,360,565
138: 1,353,904
1,362,262
144: 1,339,689
1,363,306
146: 1,331,863
1,337,793
1,339,196
1,340,628
150: 1,340,569
151: 1,352,337
156: 1,328,796
160: 1,328,870
1,332,187
161: 1,327,342
1,328,260
1,330,065
1,330,928
1,331,506
1,331,870
1,340,175
1,340,360
1,343,237
1,357,352
162: 1,329,286
1,353,460
1,355,087

Digitized by Google

Classification of patents—Continued.

84— 164: 1,359,682
165: 1,331,833
1,357,214
166: 1,329,613
1,351,881
1,360,049
168: 1,339,848
1,343,442
1,344,328
1,344,386
169: 1,351,280
1,354,767
178: 1,330,340
1,340,017
1,342,180
1,350,395
180: 1,359,706
193: 1,358,752
194: 1,349,700
1,353,555
196: 1,359,707
217: 1,353,643
1,353,644
221: 1,353,442
233: 1,329,702
1,335,476
1,341,425
241: 1,362,414
246: 1,360,695
251: 1,353,596
263: 1,360,729
269: 1,354,268
1,354,685
270: 1,348,652
1,349,067
271: 1,355,723
283: 1,353,036
285: 1,346,458
291: 1,361,182
293: 1,352,654
296: 1,355,977
297: 1,363,902
300: 1,350,310
302: 1,361,049
1,361,360
305: 1,362,391
309: 1,356,439
1,362,847
324: 1,346,707
345: 1,349,820
350: 1,359,897
1,363,580
386: 1,361,629
397: 1,349,722
400: 1,350,409
418: 1,350,975
419: 1,356,193
422: 1,350,195
1,360,031
469: 1,359,928
487: 1,353,015
498: 1,354,820
513: 1,345,316
514: 1,363,063
515: 1,353,582
85— 1: 1,330,792
1,335,613
1,346,867
1,352,918
1,361,627
1,361,858
1.5: R. 14,796
1,328,053
1,328,532
1,333,372
1,342,162
1,346,645
1,347,539
1,347,560
1,348,657
1,349,822
1,354,600
1,354,601
1,354,602
1,354,609
1,354,610
1,354,611
1,354,612
1,354,620
1,354,629
1,359,587
1,359,588
1,359,627
1,359,628
1,359,819
2.4: 1,349,977
1,349,998
1,350,562
1,352,200
1,352,494
1,359,833
1,361,836
2.8: 1,349,437

85— 3: 1,336,162
1,340,470
1,344,720
1,346,578
1,349,344
1,352,919
1,353,159
1,356,843
1,357,821
1,360,200
4: 1,337,807
5: 1,329,131
1,338,317
1,338,863
1,335,246
1,335,817
1,343,089
1,344,596
1,354,953
7: 1,341,175
1,348,767
8: 1,348,517
1,355,327
9: 1,346,058
1,348,727
11: 1,328,911
1,338,411
12: 1,333,328
1,335,398
13: 1,354,737
16: R. 14,810
1,338,988
19: 1,360,344
20: 1,326,910
21: 1,330,906
1,332,059
1,352,573
22: 1,361,301
23: 1,356,781
24: 1,342,201
28: 1,333,859
1,338,154
32: 1,330,594
1,363,353
1,363,452
33: 1,360,297
39: 1,339,197
1,339,198
45: 1,330,098
46: 1,336,773
49: 1,335,042
50: 1,344,417
1,356,873
1,362,623
51: 1,327,417
1,332,626
1,344,194
86— 19: 1,327,378
20: 1,329,565
1,337,490
1,346,064
21: 1,336,674
22: 1,356,243
23: 1,343,588
45: 1,340,432
46: 1,334,326
47: 1,340,737
48: 1,327,698
1,339,204
1,358,699
1,358,700
87— 4: 1,340,653
5: 1,327,631
1,328,080
1,328,858
1,330,387
1,340,315
1,344,545
1,353,654
1,355,074
1,355,391
1,357,730
1,362,393
6: 1,328,047
1,328,278
1,338,307
1,338,308
1,338,909
1,341,523
1,347,870
1,349,143
1,349,530
1,351,483
1,357,365
1,358,163
7: 1,340,721
9: 1,330,173
1,330,174
1,330,882
1,336,307
1,340,316
1,347,734
1,350,814

87— 9: 1,352,502
1,362,161
12: 1,329,076
1,331,905
1,331,906
1,337,339
1,340,050
1,340,186
1,342,068
1,343,255
1,353,419
1,357,536
13: 1,359,085
1,359,086
1,360,027
16: 1,339,126
1,342,783
1,353,182
1,360,252
1,360,253
1,360,254
17: 1,329,999
1,331,192
1,337,981
1,337,982
1,357,810
1,358,534
1,360,915
1,363,330
19: 1,327,166
26: 1,330,210
1,354,376
88— 1: R. 14,983
1,328,292
1,328,293
1,328,294
1,329,066
1,331,093
1,332,124
1,332,462
1,333,551
1,334,480
1,338,615
1,339,242
1,341,338
1,341,983
1,342,578
1,346,580
1,350,042
1,351,430
1,355,469
1,356,862
1,357,887
1,360,735
1,363,359
1.5: 1,330,273
1,331,363
1,347,081
1,357,704
2.2: 1,329,556
1,337,912
1,363,861
2.3: 1,348,258
2.4: 1,356,938
2.6: 1,343,025
2.7: 1,332,209
1,339,006
1,339,235
1,347,044
1,355,954
1,361,358
14: 1,327,005
1,329,909
1,331,062
1,350,396
1,351,661
1,353,500
1,355,397
1,358,413
1,362,281
1,362,304
1,362,403
16: 1,328,266
1,340,039
1,340,557
1,341,527
1,351,279
1,353,191
1,355,648
1,356,223
1,357,566
1,358,110
16.2: 1,328,189
1,331,049
1,335,651
1,341,933
1,352,126
1,354,272
1,354,742
16.4: 1,328,291
1,328,352
1,332,828
1,333,730

88— 16.4: 1,337,775
1,340,023
1,344,016
1,346,234
1,350,143
1,351,802
1,351,808
1,359,024
1,359,025
16.6: R. 14,996
1,334,532
1,347,103
1,350,836
1,352,668
1,363,249
16.8: 1,332,238
1,336,996
1,356,787
17: 1,326,997
1,328,741
1,332,374
1,334,057
1,334,324
1,334,337
1,334,338
1,334,966
1,335,749
1,336,479
1,337,267
1,338,695
1,339,356
1,342,040
1,342,429
1,342,681
1,345,981
1,346,356
1,346,880
1,347,875
1,348,177
1,348,566
1,348,626
1,349,420
1,349,421
1,349,422
1,349,650
1,350,374
1,350,548
1,350,683
1,351,814
1,352,003
1,352,218
1,352,420
1,353,389
1,355,569
1,357,983
1,358,806
1,358,917
1,359,230
1,359,457
1,359,579
1,360,443
1,360,971
1,361,123
1,361,143
1,361,144
1,361,430
1,362,985
1,363,822
18: 1,330,040
1,332,700
1,336,775
1,348,656
1,358,919
18.3: 1,347,326
1,361,167
18.4: 1,336,441
1,336,639
1,342,560
1,352,143
1,352,144
1,355,096
1,356,600
1,360,341
18.6: 1,328,382
1,334,450
18.7: 1,327,034
1,331,587
1,335,817
1,337,418
1,341,108
18.8: 1,350,388
19.3: R. 14,837
1,328,759
1,330,519
1,335,744
1,338,596
1,340,887
1,342,076
1,349,214
1,349,218
1,353,327
1,356,343
1,357,076

88— 19.3: 1,357,443
1,359,392
1,362,199
1,363,672
19.5: 1,334,948
1,347,053
1,350,024
1,359,821
1,360,156
1,360,441
1,361,783
20: 1,327,163
1,328,069
1,337,365
1,347,571
1,348,092
1,349,025
1,351,220
1,351,221
1,354,900
1,358,789
22: 1,345,573
23: 1,329,139
1,346,088
1,354,851
1,358,472
1,361,999
24: R. 14,980
1,327,204
1,327,752
1,330,447
1,330,604
1,331,081
1,332,999
1,332,413
1,333,303
1,333,304
1,334,853
1,338,818
1,339,090
1,339,279
1,341,467
1,341,666
1,341,667
1,342,735
1,343,888
1,343,889
1,344,379
1,344,682
1,344,896
1,346,319
1,346,359
1,347,761
1,347,824
1,348,069
1,349,064
1,349,580
1,351,618
1,351,765
1,352,841
1,355,498
1,355,805
1,356,140
1,356,659
1,357,731
1,357,996
1,358,685
1,361,012
1,361,274
1,363,518
26: 1,341,665
1,343,598
27: 1,327,998
1,328,192
1,345,084
1,349,640
1,354,682
1,354,923
28: 1,342,861
1,349,725
1,352,471
29: 1,349,018
1,353,259
32: 1,343,074
1,348,730
1,353,766
33: 1,338,241
1,339,386
34: 1,346,308
1,358,721
39: 1,328,441
1,345,272
1,360,571
40: 1,347,155
41: 1,330,777
1,335,508
1,338,508
1,338,526
1,340,579
1,340,875
1,346,559
1,348,712
1,348,713

88— 41: 1,359,576
42: 1,329,895
1,334,551
1,337,818
1,339,974
1,343,090
1,346,429
1,347,998
1,355,535
1,362,226
43: 1,335,140
1,347,462
1,352,887
1,361,150
1,363,689
44: 1,338,174
47: 1,330,819
1,332,242
1,333,575
1,335,318
1,335,942
1,341,344
1,341,503
1,344,474
1,345,029
1,347,140
1,349,378
1,350,430
1,356,449
1,358,200
1,362,577
1,362,715
48: 1,360,603
50: 1,329,401
1,330,824
1,342,808
1,343,437
1,345,498
1,347,072
1,353,311
1,359,154
51: 1,356,708
1,361,640
52: 1,335,823
1,337,330
1,338,880
53: 1,340,879
1,342,973
54: R. 15,007
1,332,410
1,340,021
1,340,189
1,340,715
1,347,319
1,351,785
1,354,040
1,356,666
1,356,670
1,359,204
1,360,727
1,362,309
55: 1,344,293
1,348,156
56: 1,336,040
1,339,031
1,347,133
57: 1,347,673
1,352,028
1,360,667
1,361,207
58: 1,341,259
67: 1,338,738
214: 1,338,985
89— 1: 1,327,086
1,328,021
1,329,903
1,330,776
1,331,128
1,334,414
1,337,327
1,337,566
1,338,676
1,344,992
1,348,987
1,355,388
1,355,841
1,359,338
1,359,425
2: 1,333,498
1,334,052
1,335,839
1,350,961
1,351,017
1,362,479
1,363,262
3: 1,332,060
1,344,499
1,354,825
4: 1,327,087
1,335,500
1,359,454
5: 1,345,551
1,349,414

Digitized by Google

Classification of patents—Continued.

89— 6: 1,335,448
1,356,858
7: 1,340,689
1,343,456
1,357,513
1,358,296
1,359,295
9: 1,353,267
1,363,606
10: 1,327,518
1,331,450
1,332,992
1,356,466
1,357,028
12: 1,328,230
13: 1,329,922
1,337,971
1,340,791
1,347,753
16: 1,358,343
20: 1,337,004
1,359,045
21: 1,340,215
25: 1,348,594
27: 1,336,093
1,336,096
1,337,308
1,339,390
1,345,536
1,349,140
1,360,195
1,363,971
28: 1,342,729
1,352,891
31: 1,331,474
1,333,402
1,334,801
1,341,363
1,342,978
1,351,960
1,354,416
33: 1,328,356
1,329,979
1,330,873
1,332,936
1,332,993
1,335,487
1,335,677
1,337,893
1,359,607
34: 1,355,684
35: 1,329,346
1,331,043
1,341,111
1,343,060
1,346,207
1,346,208
36: 1,327,326
1,333,438
1,342,943
1,347,652
1,348,204
1,350,062
1,357,242
37: 1,332,338
1,333,448
1,340,111
1,346,794
1,351,383
1,352,791
1,353,499
1,363,925
38: 1,327,084
1,327,085
1,334,800
1,342,475
1,345,245
1,345,246
1,356,294
40: 1,326,975
1,327,603
1,328,811
1,328,849
1,330,614
1,331,116
1,332,067
1,332,762
1,333,281
1,333,446
1,334,413
1,334,794
1,335,403
1,335,462
1,336,095
1,336,131
1,336,926
1,337,359
1,339,410
1,340,415
1,341,385
1,341,386
1,345,891
1,345,892

89— 40: 1,346,561
1,346,562
1,347,916
1,348,072
1,349,105
1,349,533
1,350,643
1,350,593
1,351,928
1,352,315
1,352,319
1,354,182
1,355,660
1,357,478
1,357,479
1,358,579
1,358,656
1,358,657
1,358,658
1,359,608
1,359,977
1,359,997
1,360,512
1,360,513
1,360,514
1,360,549
1,360,550
1,360,731
1,361,460
1,361,472
1,361,591
1,363,862
41: 1,334,680
1,334,983
1,336,094
1,349,220
1,351,649
1,354,120
1,360,664
42: 1,333,403
1,339,614
1,347,803
1,363,058
43: 1,333,280
1,333,282
1,333,283
1,335,463
1,342,708
1,342,709
1,344,621
1,346,560
1,358,386
45: 1,332,763
46: 1,346,302
47: 1,360,523
50: 1,334,490
304: 1,351,616
90— 1: 1,329,175
2: 1,329,805
3: 1,339,921
1,341,541
4: 1,343,396
1,343,982
1,344,299
1,345,028
1,345,455
1,349,951
1,361,161
1,364,056
5: 1,344,879
9: R. 14,908
R. 14,909
1,330,521
1,330,949
1,335,864
1,341,953
1,355,919
1,363,624
11: R. 14,976
1,336,239
1,355,142
12: R. 15,016
1,352,767
1,359,288
12.5: 1,330,915
1,333,623
1,337,052
1,340,359
1,350,901
1,355,700
1,361,682
13.1: 1,349,250
1,351,211
13.2: 1,335,294
1,335,351
13.3: 1,351,365
13.5: 1,358,929
13.9: 1,360,389
14: 1,336,731
1,341,034
1,346,822
1,354,942
1,358,040

90— 15: 1,330,498
1,330,897
1,330,971
1,339,029
1,339,490
1,341,252
1,345,117
1,346,928
1,353,497
16: 1,356,807
1,360,001
18: 1,341,300
20: 1,333,383
1,362,816
21: 1,331,708
1,333,053
1,333,589
1,340,584
1,340,586
1,355,167
24: 1,362,202
1,363,625
24.3: 1,343,554
27: 1,349,736
28.1: 1,328,077
33: 1,328,085
1,328,281
1,335,871
1,336,621
1,336,885
1,339,656
1,339,657
1,359,541
1,359,831
1,359,832
1,361,568
1,362,536
36: 1,340,256
38: 1,355,780
1,361,215
40: 1,356,810
41: 1,333,210
44: 1,357,021
51: 1,357,078
52: 1,363,587
53: 1,327,881
1,341,206
54: 1,355,929
1,355,930
56: 1,351,200
58: 1,327,370
1,329,358
1,338,095
1,340,741
1,341,646
1,347,778
1,352,849
1,353,668
1,355,809
1,363,222
59: 1,335,247
1,342,390
1,346,504
1,351,148
1,357,696
60: 1,327,799
1,329,728
1,350,097
1,355,143
68: 1,356,920
1,357,020
125: 1,349,153
91— 2: 1,338,354
1,341,253
3: 1,330,422
1,331,548
1,341,023
1,350,538
1,352,686
6: 1,330,719
12: 1,361,724
12.2: 1,338,782
1,338,940
1,357,908
12.5: 1,336,886
12.6: 1,346,825
13: 1,332,929
1,339,106
1,339,107
14: 1,327,127
1,334,387
1,337,729
1,344,430
1,358,026
14.5: 1,328,814
1,334,670
1,352,892
1,361,819
16: 1,349,861
18: 1,349,351
31: 1,329,681
1,336,528
1,340,294

91— 31: 1,345,720
32: 1,334,190
1,346,726
1,355,118
1,360,255
36: 1,327,420
1,350,007
1,351,408
1,352,712
39: 1,330,001
1,336,041
1,342,212
1,345,834
40: 1,352,186
41: 1,333,132
42: 1,343,887
43: 1,327,014
1,357,943
1,357,944
1,361,932
44: 1,361,007
1,330,303
1,334,017
1,340,645
1,341,760
1,347,994
45: 1,327,973
1,330,448
1,331,371
1,331,465
1,332,544
1,333,079
1,333,488
1,346,750
1,347,256
1,347,790
1,349,154
1,362,228
45.5: 1,361,526
1,361,527
46: 1,326,979
1,331,729
1,332,934
1,333,766
1,335,667
1,339,400
1,345,747
47: 1,339,467
49: 1,327,300
1,346,615
1,350,298
1,352,713
1,358,646
50: 1,331,460
1,351,582
1,353,860
1,358,083
51: 1,327,299
1,328,081
1,333,968
1,341,311
1,345,512
1,345,719
1,347,066
1,348,492
1,350,789
1,351,834
1,364,043
54: 1,344,426
54.4: 1,337,684
54.5: 1,363,017
55: 1,340,544
1,350,366
1,358,614
58: 1,331,463
1,355,219
59: 1,328,407
1,331,582
1,331,583
1,337,619
1,354,018
59.1: 1,327,273
1,331,692
1,346,618
1,350,481
59.2: 1,341,495
59.3: 1,338,152
1,363,811
59.4: 1,348,478
60: 1,348,351
1,354,418
1,354,930
1,362,215
61: 1,348,361
67.1: 1,330,837
67.2: 1,353,679
67.3: 1,361,861
67.4: 1,340,028
1,342,824
67.5: 1,362,431
67.8: 1,345,200
67.9: 1,351,181
1,360,763

91— 68: R. 14,833
1,327,197
1,328,541
1,329,467
1,329,918
1,330,443
1,331,365
1,331,653
1,332,949
1,336,506
1,337,053
1,337,380
1,338,624
1,339,462
1,339,529
1,340,655
1,341,807
1,342,767
1,344,891
1,348,571
1,348,968
1,349,910
1,351,885
1,351,885
1,352,796
1,353,149
1,353,999
1,353,068
1,354,025
1,355,486
1,357,449
1,358,250
1,358,371
1,358,799
1,360,496
1,361,894
69: 1,348,029
70: 1,327,904
1,344,645
1,345,184
1,347,095
1,349,389
1,349,911
1,350,268
1,352,163
1,352,244
1,354,487
1,357,216
1,357,498
70.1: 1,335,024
1,346,062
70.2: 1,334,183
1,339,710
1,343,842
1,357,007
72: 1,328,833
1,334,801
1,361,869
73: 1,360,318
92— 1: 1,344,025
2: 1,334,079
1,339,489
1,358,129
3: 1,327,990
1,327,573
1,338,827
1,349,112
1,351,092
1,362,850
5: 1,341,991
1,350,621
1,360,529
7: 1,337,704
1,338,496
1,347,979
10: 1,345,776
1,362,723
11: 1,327,221
1,327,666
1,360,658
13: 1,333,255
1,354,731
15: 1,330,127
1,344,719
1,350,031
17: 1,355,571
21: 1,334,513
1,338,037
1,344,620
1,345,317
1,345,476
22: 1,362,219
23: 1,338,969
1,359,638
25: 1,351,962
26: 1,346,277
1,358,354
27: 1,362,606
28: 1,333,287
30: 1,332,541
32: 1,354,924
33: 1,346,690
34: 1,331,587

92— 35: 1,327,126
38: 1,352,687
1,362,499
39: 1,344,570
1,347,724
40: 1,329,130
1,335,910
1,351,374
41: 1,332,252
42: 1,357,313
1,360,313
1,360,684
43: 1,338,211
1,343,505
1,359,520
44: 1,342,655
1,344,603
46: 1,331,057
1,357,760
48: 1,329,100
49: 1,327,225
1,327,289
1,338,094
1,347,723
50: 1,352,485
51: 1,353,941
54: 1,342,184
1,352,404
1,359,489
56: 1,360,847
1,360,848
57: 1,358,635
58: 1,350,852
59: 1,348,214
64: R. 14,973
65: 1,353,578
66: 1,335,432
67: 1,344,024
1,344,173
68: 1,347,020
69: 1,348,638
72: 1,357,234
[93— 1: 1,355,872
1,356,500
1,360,741
1,364,050
2: 1,329,069
1,329,236
1,333,044
1,336,549
1,336,838
1,337,845
1,339,808
1,341,184
1,341,408
1,345,420
1,346,072
1,350,608
1,351,025
1,354,246
1,354,371
1,359,429
1,362,311
3: 1,337,404
1,360,573
5: 1,337,693
1,351,809
1,352,629
6: 1,348,643
1,352,899
7: 1,330,354
1,333,901
1,352,221
1,352,232
1,359,181
1,360,439
8: 1,351,219
1,354,339
10: 1,359,772
13: 1,341,832
1,341,833
1,341,835
1,341,836
22: 1,333,285
25: 1,355,966
35: 1,359,773
36: 1,330,334
1,332,288
1,333,130
1,335,735
1,348,197
1,349,432
1,351,461
1,355,227
1,358,981
1,359,546
37: 1,333,772
1,353,344
39: 1,346,827
1,355,031
1,359,110
40: 1,335,686
1,341,954

Digitized by Google

Classification of patents—Continued.

93— 40: 1,343,748
1,343,906
43: 1,363,024
1,363,025
44: 1,332,196
1,338,552
1,338,749
1,342,047
47: 1,356,771
49: 1,346,899
1,355,398
51: 1,344,506
1,356,113
52: 1,352,283
54: 1,348,369
55: 1,332,641
1,355,924
57: 1,355,390
58: 1,340,558
1,342,239
1,344,657
1,353,086
1,355,430
1,359,427
1,360,048
1,360,076
1,361,564
1,362,330
59: 1,342,575
1,343,907
59.1: 1,327,333
60: 1,339,315
61: R. 14,936
1,340,909
1,328,011
1,328,472
1,337,734
1,337,735
1,338,119
1,353,588
1,354,328
1,361,545
68: 1,347,182
80: 1,358,610
81: 1,328,792
1,328,912
1,329,815
1,335,894
1,340,110
1,345,137
1,345,459
1,347,853
1,351,870
1,362,976
88: 1,339,887
91: 1,343,290
1,351,000
93: 1,342,665
1,356,667
94— 4: 1,328,310
1,353,446
5: 1,338,801
8: 1,347,855
1,358,042
11: 1,335,180
1,344,895
13: R. 14,904
R. 14,871
1,348,774
1,351,546
14: 1,334,101
1,340,896
1,348,418
17: 1,348,959
1,359,787
18: 1,328,107
1,329,631
1,339,094
20: 1,361,140
22: 1,348,610
23: 1,330,139
1,341,458
1,348,680
1,348,278
24: 1,347,654
25: 1,355,833
27: 1,361,720
28: 1,353,919
1,360,416
30: 1,335,623
31: 1,331,265
35: 1,362,952
36: 1,330,012
40: 1,363,230
1,363,304
41: 1,337,953
1,340,131
1,341,948
1,345,925
1,351,361
42: 1,329,506
1,354,076
1,363,560

94— 43: 1,332,987
44: 1,327,131
1,351,725
45: 1,334,483
47: 1,339,069
48: 1,329,796
49: 1,359,364
50: 1,344,916
200: 1,364,036
95— 1: R. 14,821
1.1: 1,327,138
1,330,235
1,336,330
1,337,423
1,342,155
1,351,762
1,358,990
1,359,245
1,359,246
1,360,414
1,362,581
1,362,787
1,363,090
1,363,414
1,363,899
2: 1,330,535
1,349,956
1,358,802
5: R. 14,802
1,356,442
5.4: 1,354,001
5.7: 1,329,088
1,346,885
8: 1,342,390
9: 1,329,785
1,332,890
1,347,109
11: 1,331,627
1,341,017
1,352,134
13: 1,359,481
15: 1,347,062
19: 1,357,363
22: 1,343,590
1,357,164
30: 1,344,382
31: 1,331,849
1,331,852
1,341,543
1,344,207
1,355,328
1,363,217
32: 1,344,873
1,345,288
1,360,538
1,362,548
36: 1,347,794
39: 1,353,266
40: 1,356,595
1,362,833
42: 1,330,400
1,339,319
1,346,461
1,352,449
44: 1,331,269
1,356,868
45: 1,331,174
51: 1,341,718
53: 1,337,603
1,356,583
54: 1,344,997
1,361,031
55: 1,361,939
61: 1,348,778
63: 1,329,424
1,329,715
1,341,823
1,354,526
66: 1,355,146
68: 1,336,377
1,343,773
1,351,998
72: 1,343,653
73: 1,332,854
1,335,089
1,336,989
1,349,384
1,350,256
1,351,655
75: R. 14,799
1,335,860
1,340,209
1,340,511
1,350,023
1,361,555
1,363,517
77: 1,338,894
1,353,690
1,353,922
79: 1,363,410
81: 1,341,610
1,343,613
86: 1,359,515

95— 88: 1,331,092
1,356,236
1,361,352
89: 1,328,305
1,346,662
90: 1,350,761
1,358,623
90.5: 1,346,780
1,347,032
1,352,109
1,358,622
1,363,117
93: 1,359,382
97: 1,332,965
1,362,146
98: 1,348,881
100: 1,329,749
1,339,088
1,347,620
1,348,153
1,349,972
1,353,705
1,358,090
1,360,187
1,361,192
1,361,767
1,362,193
1,363,184
101: 1,352,976
97— 1: 1,333,492
1,345,346
1,355,454
2: 1,331,446
3: 1,330,360
4: 1,333,312
1,333,962
1,335,273
1,344,131
1,351,825
1,353,946
1,360,159
6: 1,351,376
9: 1,332,833
1,358,208
10: 1,335,086
1,334,621
1,336,217
1,341,724
1,349,623
1,350,376
1,353,342
1,353,574
1,358,742
11: 1,328,740
1,335,725
1,336,821
1,340,392
1,345,209
1,346,261
12: 1,333,158
1,334,214
1,355,134
1,356,036
1,359,376
13: 1,328,518
1,330,686
1,337,407
1,339,586
1,349,419
1,351,704
1,354,364
1,355,812
1,357,092
1,359,404
1,360,775
14: 1,330,608
1,336,550
1,337,126
18: 1,327,562
1,327,921
1,331,636
1,333,159
1,335,195
1,337,868
1,346,363
1,346,600
1,356,723
1,358,522
1,358,584
1,359,663
1,361,454
1,362,137
20: 1,348,782
21: 1,329,666
1,331,502
1,341,804
22: 1,330,812
1,333,969
1,333,970
23: 1,355,737
24: 1,329,375
25: 1,328,913
1,329,839

97— 25: 1,338,200
1,338,201
1,338,203
1,338,204
1,352,555
1,353,012
26: 1,331,296
1,343,564
1,346,436
1,346,751
1,347,257
1,351,850
27: 1,332,272
1,350,923
28: 1,329,176
1,331,750
1,337,076
1,338,123
1,343,269
29: 1,357,841
1,362,155
30: 1,332,643
1,338,550
1,353,318
1,358,158
1,358,650
1,361,742
1,362,277
1,363,755
32: 1,358,836
1,360,409
33: 1,338,594
1,339,840
1,343,058
1,349,896
34: 1,331,380
1,341,231
1,342,125
1,344,138
1,344,833
1,346,265
1,346,266
1,347,926
1,348,311
1,348,438
1,349,657
1,349,928
1,352,783
1,353,924
1,354,665
1,357,149
1,357,649
35: 1,327,212
1,327,413
1,332,947
1,334,855
1,334,994
1,335,074
1,339,864
1,341,240
1,342,302
1,346,317
1,346,318
1,346,512
1,348,693
1,353,992
1,354,315
1,354,556
1,358,460
1,360,649
36: 1,328,756
1,333,203
1,333,811
1,334,543
1,335,636
1,341,182
1,342,479
1,342,836
1,347,321
1,348,219
1,351,782
1,355,375
1,358,939
1,359,055
1,359,850
1,360,014
1,360,491
1,360,636
1,361,906
1,362,795
1,364,000
37: 1,335,057
1,339,040
1,363,458
39: 1,335,212
40: 1,359,859
1,361,638
41: 1,336,623
1,338,273
1,341,064
42: 1,331,448
1,335,928
1,340,784

97— 42: 1,342,285
1,342,642
1,346,701
1,348,096
1,350,050
1,350,906
1,351,643
1,351,984
1,353,091
1,355,472
1,355,473
43: 1,332,994
1,335,410
1,362,279
44: 1,332,049
1,333,056
1,333,854
1,359,630
45: 1,331,148
1,336,299
1,336,708
1,340,057
1,346,332
1,348,764
1,354,958
1,359,709
46: 1,332,095
1,336,727
1,343,777
1,354,131
1,356,758
47: 1,349,266
1,360,968
48: 1,328,638
1,347,646
50: 1,337,929
1,338,195
1,351,063
1,355,409
51: 1,342,815
52: 1,333,911
1,335,052
53: 1,348,255
1,352,725
1,358,864
54: 1,329,582
1,338,559
1,349,900
1,359,980
1,362,710
55: 1,344,586
1,345,275
1,349,028
1,355,815
1,356,770
59: 1,331,044
60: 1,329,581
1,330,198
1,348,995
61: 1,331,641
62: 1,362,527
63: 1,328,800
1,331,200
1,344,708
1,349,875
64: 1,333,980
1,360,801
66: 1,331,340
1,333,503
1,337,721
1,339,371
1,349,821
67: 1,327,928
1,335,078
1,362,454
68: 1,332,079
1,337,870
1,363,507
69: 1,331,424
1,359,371
70: 1,335,123
1,347,992
71: 1,333,543
1,341,098
1,343,866
1,361,015
72: 1,328,896
75: 1,335,529
77: 1,344,888
81: 1,328,710
1,328,808
1,331,408
1,343,062
1,343,225
1,351,741
1,351,759
82: 1,339,922
1,363,412
83: 1,346,063
85: 1,348,862
1,352,034
1,354,495
1,363,977

97— 88: 1,358,057
92: 1,332,577
98— 2: 1,327,879
1,348,513
1,362,044
3: 1,328,094
1,332,239
1,336,590
1,352,843
1,358,314
1,362,033
1,362,342
4: 1,337,731
1,340,033
1,343,763
1,335,195
1,346,633
1,349,764
1,354,623
1,358,412
1,359,551
8: 1,333,651
21: 1,333,063
22: 1,330,569
1,336,470
1,342,152
1,346,383
1,358,198
1,361,567
1,361,673
1,362,982
23: 1,342,066
26: 1,327,130
1,328,132
1,339,437
1,341,275
1,349,538
1,353,758
1,354,002
27: 1,327,630
1,327,120
1,335,948
1,340,673
1,343,576
1,347,195
1,348,557
1,358,240
1,361,147
30: 1,328,647
31: 1,331,950
1,332,493
1,335,929
1,342,222
1,344,054
1,349,186
1,350,792
1,352,257
1,353,789
1,356,428
1,359,710
1,359,975
1,360,698
32: 1,334,806
1,339,761
1,363,735
49: 1,329,803
1,329,804
1,348,360
50: 1,363,383
54: 1,329,802
1,336,210
1,359,360
99— 1: 1,358,985
2: R. 14,965
1,327,937
1,328,183
1,328,395
1,328,397
1,329,786
1,332,629
1,333,552
1,335,136
1,337,974
1,339,212
1,339,323
1,340,921
1,344,350
1,345,095
1,345,380
1,347,194
1,353,209
1,353,978
1,354,317
1,354,962
1,357,011
1,358,309
1,359,441
1,360,024
1,363,572
5: 1,344,638
1,354,068
1,354,342
1,356,340

Digitized by Google

Classification of patents—Continued.

99— 5: 1,361,238
1,361,239
1,362,728
6: 1,328,091
1,329,223
1,330,199
1,345,151
1,351,757
1,352,822
1,360,987
1,361,040
8: 1,329,246
1,330,597
1,331,590
1,344,240
1,345,695
1,347,791
1,348,687
1,348,688
1,348,689
1,348,824
1,356,614
1,358,629
1,361,498
10: 1,333,967
1,334,366
1,335,242
1,345,680
1,348,186
1,349,524
1,355,127
1,355,128
1,355,129
1,356,988
1,358,960
11: 1,327,113
1,327,220
1,328,556
1,332,448
1,332,562
1,334,693
1,335,383
1,337,027
1,337,850
1,338,231
1,350,756
1,338,684
1,339,528
1,341,040
1,343,915
1,348,999
1,349,000
1,349,753
1,350,599
1,353,561
1,354,563
1,354,564
1,354,585
1,354,683
1,355,731
1,359,633
1,360,174
1,361,079
1,362,868
1,362,869
1,362,870
12: 1,339,488
1,345,253
1,346,287
1,346,830
1,328,506
1,328,655
1,328,656
1,328,657
1,328,658
1,328,659
1,328,660
1,328,661
1,328,662
1,356,015
1,358,130
13: 1,342,827
1,345,657
15: 1,350,870
1,327,308
1,331,337
1,336,720
1,355,476
18: 1,363,193
60: 1,339,603
123: 1,328,505
100— 1: 1,333,351
3: 1,340,388
4: 1,351,360
5: 1,335,309
7: 1,330,584
1,332,177
1,358,109
8: 1,351,452
11: 1,353,252
12: 1,348,911
14: 1,344,785
15: 1,348,270

100— 15: 1,332,647
1,332,650
1,360,236
19: 1,327,471
1,352,345
1,359,311
1,362,382
20: 1,348,180
23: 1,333,068
25: 1,340,964
1,340,971
1,332,576
1,352,129
1,352,785
28: 1,327,472
29: 1,332,644
1,332,646
1,332,648
1,332,649
1,361,815
30: 1,333,067
31: 1,339,396
1,342,981
1,332,523
1,333,179
1,333,180
1,358,845
1,358,952
1,359,477
1,360,237
1,362,068
32: 1,346,241
1,334,904
35: 1,350,788
37: 1,333,671
41: 1,353,056
42: 1,345,963
44: 1,339,193
1,343,872
1,344,261
1,354,446
1,354,517
1,354,528
47: 1,339,600
1,340,407
1,343,059
1,344,287
1,346,594
1,327,254
1,328,090
1,331,016
1,334,538
1,353,349
1,354,797
1,355,101
1,355,620
1,360,882
48: 1,344,790
1,333,249
1,353,420
1,363,084
49: 1,341,496
1,344,857
1,349,839
1,362,135
50: 1,341,341
1,331,453
1,336,341
1,336,579
1,356,623
1,357,052
1,360,205
1,360,206
51: 1,327,093
1,330,711
1,336,171
1,347,455
1,347,456
1,348,004
1,348,869
1,348,870
1,349,544
1,355,136
1,358,983
56: 1,350,999
1,328,728
1,331,017
1,330,625
1,330,626
1,334,521
1,353,724
1,358,732
57: 1,341,414
1,344,156
1,345,878
1,348,521
1,329,965
1,331,902
1,332,037
1,335,013
1,337,374
1,352,158
1,352,749

100— 57: 1,353,405
1,353,892
1,354,061
1,354,280
1,356,093
1,356,094
1,356,724
1,358,063
1,360,000
1,360,871
1,363,314
59: 1,330,024
101— 3: 1,344,214
1,346,150
1,335,093
1,335,576
1,356,548
6: 1,344,007
1,329,941
1,360,723
7: 1,339,569
8: 1,331,790
1,351,777
19: 1,347,445
1,331,934
1,333,089
1,352,090
1,355,996
1,358,146
1,358,458
1,358,461
1,363,016
20: 1,329,449
1,329,606
1,335,207
1,338,645
1,352,689
1,352,691
1,360,067
21: 1,354,408
23: 1,352,011
1,358,891
1,362,508
28: 1,339,363
1,359,934
32: 1,362,678
35: 1,340,967
1,348,330
1,334,822
1,352,528
37: 1,339,050
1,340,966
1,341,449
1,351,830
42: 1,350,346
44: 1,339,881
1,359,807
1,362,443
50: 1,349,807
1,328,534
53: 1,344,384
54: 1,353,032
56: 1,343,170
57: 1,354,918
64: 1,337,970
66: 1,340,221
1,338,238
1,357,372
68: 1,361,234
69: 1,359,938
72: 1,357,565
1,363,089
77: R. 14,916
78: 1,347,627
79: 1,352,959
83: 1,335,746
89: 1,337,232
90: 1,338,230
93: 1,349,880
1,333,009
1,333,890
1,361,226
94: 1,360,460
1,363,069
96: 1,352,070
97: 1,360,379
102: 1,360,155
1,362,791
1,362,792
103: 1,353,994
1,361,535
1,361,536
1,361,537
1,361,538
1,361,539
108: 1,356,172
110: 1,341,021
111: 1,340,122
1,346,912
1,347,259
1,330,251
1,352,300
1,361,145

101— 111: 1,362,329
112: 1,345,653
1,332,761
113: 1,349,555
115: 1,328,368
118: 1,341,402
121: 1,360,566
122: 1,363,941
125: 1,330,857
1,347,743
1,334,175
1,355,047
127: 1,350,993
1,351,068
1,363,897
129: 1,354,478
130: 1,357,340
137: 1,348,006
142: 1,358,843
147: 1,335,025
1,335,026
150: 1,350,918
157: 1,362,638
165: 1,362,684
169: 1,351,545
175: 1,342,530
178: 1,338,785
185: 1,357,945
186: 1,349,895
195: 1,353,662
198: 1,333,308
199: 1,342,722
202: 1,344,026
212: 1,336,029
1,338,165
1,359,720
1,360,063
215: 1,347,505
216: 1,329,325
1,338,347
218: 1,339,316
1,341,693
1,355,844
219: 1,359,862
220: 1,356,171
224: 1,359,863
226: 1,330,386
227: 1,331,579
231: 1,348,253
232: 1,339,099
1,337,266
234: 1,351,175
240: 1,349,940
1,336,988
247: 1,330,793
248: 1,328,842
250: 1,338,642
274: 1,331,449
278: 1,345,302
1,342,629
282: 1,339,526
284: 1,337,186
287: 1,330,662
1,337,231
1,360,699
1,363,200
1,363,464
288: 1,340,380
289: 1,356,242
292: 1,327,241
1,344,489
294: 1,355,979
300: 1,354,639
301: 1,333,487
1,335,491
1,337,591
318: 1,331,924
1,353,742
327: 1,343,633
329: 1,351,070
333: 1,334,540
334: 1,345,255
338: 1,358,170
340: 1,334,469
1,358,021
341: 1,352,159
342: 1,342,355
345: 1,336,841
348: 1,337,574
1,350,127
349: 1,341,692
350: 1,341,691
351: 1,327,580
356: 1,356,420
362: 1,334,964
363: 1,338,044
364: 1,341,627
365: 1,348,900
367: 1,331,219
368: 1,330,374
1,331,262
1,333,938
1,343,073

101— 368: 1,347,152
371: 1,328,031
372: 1,332,381
373: 1,343,511
1,355,089
375: 1,342,803
378: 1,336,721
1,340,355
1,344,648
1,357,341
381: 1,343,917
1,345,794
382: 1,347,101
386: 1,344,039
1,350,015
389: 1,330,454
1,336,487
1,343,220
1,348,663
391: 1,347,312
393: 1,353,758
1,362,496
394: 1,339,607
395: 1,357,339
396: 1,328,725
1,340,072
400: 1,331,037
1,349,536
1,349,720
1,355,531
401.2: 1,346,583
1,351,954
402: 1,334,236
1,342,030
1,349,257
404: 1,341,574
405: 1,353,703
407: 1,340,194
408: 1,334,015
1,347,616
1,350,140
1,353,808
409: 1,339,654
412: 1,356,163
413: 1,343,537
1,349,579
414: 1,330,686
1,342,113
1,351,600
415: R. 14,963
1,333,829
1,354,527
1,355,753
1,363,768
422: 1,331,733
1,336,985
426: 1,341,186
1,350,034
102— 2: 1,327,487
1,327,488
1,329,443
1,331,398
1,333,786
1,333,900
1,335,996
1,343,036
1,344,558
1,345,130
1,346,177
1,349,014
1,350,220
1,351,540
1,352,542
1,357,927
1,359,009
3: 1,333,752
1,336,873
1,340,288
1,343,969
1,344,074
1,346,309
1,352,795
1,358,358
1,358,466
1,363,958
4: 1,337,063
7: 1,358,318
8: 1,335,003
1,351,794
9: 1,358,478
10: 1,354,100
12: 1,329,503
1,353,118
15: 1,363,043
16: 1,330,144
1,340,245
20: 1,327,999
1,346,454
21: 1,328,307
22: 1,362,705
23: 1,332,716
1,341,053
25: 1,350,845

102— 26: 1,327,372
1,327,545
1,327,655
1,328,967
1,331,510
1,333,199
1,346,639
1,356,746
28: 1,328,334
1,333,834
1,351,498
29: 1,327,451
1,327,531
1,329,134
1,329,736
1,330,079
1,330,291
1,330,424
1,330,425
1,331,648
1,335,343
1,335,406
1,336,656
1,337,343
1,339,735
1,340,546
1,340,871
1,343,557
1,343,747
1,344,733
1,347,125
1,350,339
1,351,078
1,355,130
1,3.8,652
1,360,602
1,361,286
1,362,021
1,363,079
32: 1,341,844
36: 1,337,525
1,337,960
1,342,413
1,358,236
1,362,519
37: 1,333,667
39: 1,327,037
1,327,600
1,329,972
1,333,496
1,333,777
1,336,391
1,336,701
1,336,828
1,338,802
1,340,536
1,342,652
1,343,415
1,347,716
1,351,416
1,352,543
1,352,544
1,356,633
1,356,828
1,357,703
1,360,148
1,364,008
40: 1,345,689
1,356,840
1,361,158
42: 1,337,993
1,358,279
103— 6: 1,358,632
8: R. 14,935
R. 14,946
1,327,868
1,332,333
1,332,334
1,334,542
1,339,224
1,344,883
1,345,725
1,347,033
1,351,397
1,353,492
1,353,845
1,354,330
1,356,684
1,357,671
1,358,238
1,362,552
1,363,443
10: 1,339,500
1,341,669
35: 1,330,621
1,333,793
43: R. 14,988
1,328,061
1,330,416
1,337,916
1,340,472
1,345,655
1,346,924

Digitized by Google

Classification of patents—Continued.

93— 40: 1,343,748
1,343,906
43: 1,363,024
1,363,025
44: 1,332,196
1,338,552
1,338,749
1,342,047
47: 1,356,771
49: 1,346,899
1,355,398
51: 1,344,506
1,355,114
52: 1,352,283
54: 1,348,369
55: 1,332,641
1,355,924
57: 1,355,390
58: 1,340,558
1,342,239
1,344,657
1,353,086
1,355,430
1,359,427
1,360,048
1,360,076
1,361,564
1,362,330
59: 1,342,575
1,343,907
59.1: 1,327,333
60: 1,339,315
61: R. 14,936
1,340,909
1,328,011
1,328,472
1,337,734
1,337,735
1,338,119
1,353,588
1,354,328
1,361,545
68: 1,347,182
80: 1,358,610
81: 1,328,792
1,328,912
1,329,815
1,335,894
1,340,110
1,345,137
1,345,459
1,347,853
1,351,870
1,362,976
88: 1,339,887
91: 1,343,290
1,351,000
93: 1,342,665
1,356,667
94— 4: 1,328,310
1,353,446
5: 1,338,801
8: 1,347,855
1,358,042
11: 1,335,180
1,344,895
13: R. 14,904
R. 14,871
1,348,774
1,351,546
14: 1,334,101
1,340,896
1,348,418
17: 1,348,959
1,359,787
18: 1,328,107
1,329,631
1,339,094
20: 1,361,140
22: 1,348,610
23: 1,330,139
1,341,458
1,345,680
1,348,278
24: 1,347,654
25: 1,355,833
27: 1,361,720
28: 1,353,919
1,360,416
30: 1,335,623
31: 1,331,265
35: 1,362,952
36: 1,330,012
40: 1,363,230
1,363,304
41: 1,337,953
1,340,131
1,341,948
1,345,925
1,351,361
42: 1,329,506
1,354,076
1,363,560

94— 43: 1,332,987
44: 1,327,131
1,351,725
45: 1,334,483
47: 1,339,069
48: 1,329,796
49: 1,359,264
50: 1,344,916
200: 1,364,036
95— 1: R. 14,821
1.1: 1,327,138
1,330,235
1,336,390
1,337,423
1,342,155
1,351,762
1,358,990
1,359,245
1,359,246
1,360,414
1,362,581
1,362,787
1,363,090
1,363,414
1,363,899
2: 1,330,535
1,349,956
1,358,802
5: R. 14,802
1,356,442
5.4: 1,354,001
5.7: 1,329,088
1,346,885
8: 1,342,590
9: 1,329,785
1,332,890
1,347,109
11: 1,331,627
1,341,017
1,352,134
13: 1,359,481
15: 1,347,062
19: 1,357,363
22: 1,343,590
1,357,164
30: 1,344,182
31: 1,331,849
1,331,852
1,341,543
1,344,207
1,355,328
1,363,217
32: 1,344,873
1,345,288
1,360,538
1,362,548
36: 1,347,794
39: 1,353,266
40: 1,356,595
1,362,833
42: 1,330,400
1,339,319
1,346,461
1,352,449
44: 1,331,269
1,356,868
45: 1,331,174
51: 1,341,718
53: 1,337,603
1,356,583
54: 1,344,997
1,361,031
55: 1,361,939
61: 1,348,778
63: 1,329,424
1,329,715
1,341,823
1,354,526
66: 1,355,146
68: 1,336,377
1,343,773
1,351,998
72: 1,343,653
73: 1,332,854
1,335,089
1,336,989
1,349,384
1,350,256
1,351,655
75: R. 14,799
1,335,860
1,340,209
1,340,511
1,350,023
1,361,555
1,363,517
77: 1,338,894
1,353,690
1,353,922
79: 1,363,410
81: 1,341,610
1,343,613
86: 1,359,515

95— 88: 1,331,092
1,356,236
1,361,352
89: 1,328,305
1,346,662
90: 1,350,761
1,358,623
90.5: 1,346,780
1,347,032
1,352,109
1,358,622
1,363,117
93: 1,359,382
97: 1,332,965
1,362,146
98: 1,348,881
100: 1,329,749
1,339,088
1,347,620
1,348,153
1,349,972
1,353,705
1,358,090
1,360,187
1,361,192
1,361,767
1,362,193
1,363,184
101: 1,352,976
97— 1: 1,333,492
1,345,346
1,355,454
2: 1,331,446
3: 1,330,360
4: 1,333,312
1,333,962
1,335,273
1,344,131
1,351,825
1,353,946
1,360,159
6: 1,351,376
9: 1,332,833
1,358,208
10: 1,335,086
1,334,621
1,336,217
1,341,724
1,349,623
1,350,376
1,353,342
1,353,574
1,358,742
11: 1,328,740
1,335,725
1,336,821
1,340,392
1,345,209
1,346,261
12: 1,333,158
1,334,214
1,355,134
1,356,036
1,359,376
13: 1,328,518
1,330,686
1,337,407
1,339,586
1,349,419
1,351,704
1,354,364
1,355,812
1,357,092
1,359,404
1,360,775
14: 1,330,608
1,336,550
1,337,126
18: 1,327,562
1,327,921
1,331,636
1,333,159
1,335,195
1,337,868
1,346,363
1,346,600
1,356,723
1,358,522
1,358,584
1,359,663
1,361,454
1,362,137
20: 1,348,782
21: 1,329,666
1,331,502
1,341,804
22: 1,330,812
1,333,969
1,333,970
23: 1,355,737
24: 1,329,375
25: 1,328,913
1,329,839

97— 25: 1,338,200
1,338,201
1,338,203
1,338,204
1,352,555
1,353,012
26: 1,331,296
1,343,564
1,346,436
1,346,751
1,347,257
1,351,850
27: 1,332,272
1,350,923
28: 1,329,176
1,331,750
1,337,076
1,338,123
1,343,269
29: 1,357,841
1,362,155
30: 1,332,643
1,338,550
1,353,318
1,358,158
1,358,650
1,361,742
1,362,277
1,363,755
32: 1,358,836
1,360,409
33: 1,338,594
1,339,840
1,343,058
1,349,896
34: 1,331,380
1,341,231
1,342,125
1,344,138
1,344,833
1,346,265
1,346,266
1,347,926
1,348,311
1,348,438
1,349,657
1,349,928
1,352,783
1,353,924
1,354,665
1,357,149
1,357,649
35: 1,327,212
1,327,413
1,332,947
1,334,855
1,334,994
1,335,074
1,339,864
1,341,240
1,342,302
1,346,317
1,346,318
1,346,512
1,348,693
1,353,992
1,354,315
1,354,556
1,358,460
1,360,649
36: 1,328,756
1,333,203
1,333,811
1,334,543
1,335,636
1,341,182
1,342,479
1,342,836
1,347,321
1,348,219
1,351,782
1,355,375
1,358,939
1,359,055
1,359,850
1,360,014
1,360,491
1,360,636
1,361,906
1,362,795
1,364,000
37: 1,335,057
1,339,040
1,363,458
39: 1,335,212
40: 1,350,859
1,361,638
41: 1,336,623
1,338,273
1,341,064
42: 1,331,448
1,335,928
1,340,784

97— 42: 1,342,285
1,342,642
1,346,701
1,348,096
1,350,050
1,350,906
1,351,043
1,351,884
1,353,091
1,355,472
1,355,473
43: 1,332,994
1,335,410
1,362,279
44: 1,332,049
1,333,056
1,333,854
1,359,030
45: 1,331,148
1,336,299
1,336,708
1,340,057
1,346,332
1,348,764
1,354,958
1,359,709
46: 1,332,095
1,336,727
1,343,777
1,354,131
1,356,758
47: 1,349,286
1,360,968
48: 1,328,038
1,347,646
50: 1,337,929
1,338,195
1,351,063
1,355,409
51: 1,342,815
52: 1,333,911
1,335,052
53: 1,348,255
1,352,725
1,358,864
54: 1,329,582
1,338,559
1,349,900
1,359,860
1,362,710
55: 1,344,586
1,345,275
1,349,028
1,355,815
1,356,770
59: 1,331,044
60: 1,329,581
1,330,198
1,348,995
61: 1,331,041
62: 1,362,827
63: 1,328,900
1,331,200
1,344,708
1,349,575
64: 1,333,980
1,360,901
66: 1,331,340
1,333,903
1,337,721
1,339,371
1,349,821
67: 1,327,928
1,335,078
1,362,454
68: 1,332,079
1,337,870
1,363,507
69: 1,331,424
1,359,371
70: 1,335,123
1,347,992
71: 1,333,543
1,341,998
1,343,966
1,361,015
72: 1,328,996
75: 1,335,529
77: 1,344,888
81: 1,328,710
1,328,909
1,331,408
1,343,062
1,343,225
1,351,741
1,351,759
82: 1,339,922
1,363,412
83: 1,346,063
85: 1,348,962
1,352,634
1,354,495
1,363,077

97— 88: 1,358,057
92: 1,332,577
98— 2: 1,327,879
1,348,513
1,362,044
3: 1,328,094
1,332,239
1,336,590
1,352,843
1,358,314
1,362,083
1,362,342
4: 1,337,731
1,340,033
1,343,763
1,335,195
1,346,633
1,349,764
1,354,623
1,358,412
1,359,551
8: 1,333,651
21: 1,333,063
22: 1,330,569
1,336,470
1,342,152
1,346,383
1,358,198
1,361,567
1,361,673
1,362,962
23: 1,342,066
26: 1,327,130
1,328,132
1,339,437
1,341,275
1,349,538
1,353,758
1,354,002
27: 1,327,630
1,327,120
1,335,948
1,340,673
1,343,576
1,347,195
1,348,557
1,358,240
1,361,147
30: 1,328,647
31: 1,331,950
1,332,493
1,335,929
1,342,222
1,344,054
1,349,186
1,350,792
1,352,257
1,353,789
1,356,428
1,359,710
1,359,975
1,360,698
32: 1,334,806
1,339,761
1,363,735
49: 1,329,803
1,329,804
1,348,360
50: 1,363,383
54: 1,329,802
1,336,210
1,359,360
99— 1: 1,358,985
2: R. 14,965
1,327,937
1,328,183
1,328,395
1,328,397
1,329,786
1,332,629
1,333,552
1,335,136
1,337,974
1,339,212
1,339,323
1,340,921
1,344,350
1,345,095
1,345,380
1,347,194
1,353,209
1,353,978
1,354,317
1,354,962
1,357,011
1,358,309
1,359,441
1,360,024
1,363,572
5: 1,344,638
1,354,068
1,354,342
1,356,340

Digitized by Google

Classification of patents—Continued.

99— 5: 1,361,238
1,361,239
1,362,728
6: 1,328,091
1,329,223
1,330,199
1,345,151
1,351,757
1,352,822
1,360,987
1,361,040
8: 1,329,246
1,330,597
1,331,590
1,344,240
1,345,695
1,347,791
1,348,687
1,348,688
1,348,689
1,348,824
1,356,814
1,358,629
1,361,498
10: 1,333,967
1,334,366
1,335,242
1,345,680
1,348,186
1,349,524
1,355,127
1,355,128
1,355,129
1,356,988
1,358,960
11: 1,327,113
1,327,220
1,328,556
1,332,448
1,332,562
1,334,693
1,335,383
1,337,027
1,337,850
1,338,231
1,350,756
1,338,684
1,339,528
1,341,040
1,343,915
1,348,999
1,349,000
1,349,753
1,350,599
1,353,561
1,354,563
1,354,564
1,354,585
1,354,683
1,355,731
1,359,633
1,360,174
1,361,079
1,362,868
1,362,869
1,362,870
12: 1,339,488
1,345,253
1,346,287
1,346,830
1,328,506
1,328,655
1,328,656
1,328,657
1,328,658
1,328,659
1,328,660
1,328,661
1,328,662
1,356,015
1,358,130
13: 1,342,827
1,345,657
15: 1,350,870
1,327,308
1,331,337
1,336,720
1,355,476
18: 1,363,193
60: 1,339,603
123: 1,328,505
100— 1: 1,333,351
3: 1,340,388
4: 1,351,360
5: 1,335,309
7: 1,330,584
1,332,177
1,358,109
8: 1,351,452
11: 1,353,252
12: 1,348,911
14: 1,344,785
15: 1,348,270

100— 15: 1,332,647
1,332,650
1,360,236
19: 1,327,471
1,352,345
1,359,311
1,362,382
20: 1,348,180
23: 1,333,068
25: 1,340,964
1,340,971
1,332,576
1,352,129
1,352,785
28: 1,327,472
29: 1,332,644
1,332,646
1,332,648
1,332,649
1,361,815
30: 1,333,067
31: 1,339,396
1,342,981
1,332,523
1,333,179
1,333,180
1,358,845
1,358,952
1,359,477
1,360,237
1,362,068
32: 1,346,241
1,334,904
35: 1,350,788
37: 1,333,671
41: 1,333,056
42: 1,345,963
44: 1,339,193
1,343,872
1,344,261
1,354,446
1,354,517
1,354,528
47: 1,339,600
1,340,407
1,343,059
1,344,287
1,346,594
1,327,254
1,328,090
1,331,016
1,334,538
1,353,349
1,354,797
1,355,101
1,355,620
1,360,882
48: 1,344,790
1,333,249
1,353,420
1,363,084
49: 1,341,496
1,344,857
1,349,839
1,362,135
50: 1,341,341
1,331,453
1,336,341
1,336,579
1,356,623
1,357,052
1,360,205
1,360,206
51: 1,327,093
1,330,711
1,336,171
1,347,455
1,347,456
1,348,004
1,348,869
1,348,870
1,349,544
1,355,136
1,358,983
56: 1,350,999
1,328,728
1,331,017
1,330,625
1,330,626
1,334,521
1,353,724
1,358,732
57: 1,341,414
1,344,156
1,345,878
1,348,521
1,329,965
1,331,902
1,332,087
1,335,013
1,337,374
1,352,158
1,352,749

100— 57: 1,353,405
1,353,892
1,354,061
1,354,280
1,356,093
1,356,094
1,356,724
1,358,063
1,360,000
1,360,571
1,363,314
59: 1,330,524
101— 3: 1,344,214
1,346,150
1,335,393
1,335,576
1,356,548
6: 1,344,007
1,329,941
1,360,723
7: 1,339,569
8: 1,331,790
1,351,777
19: 1,347,445
1,331,934
1,333,089
1,352,690
1,355,996
1,358,146
1,358,458
1,358,461
1,363,916
20: 1,329,449
1,329,606
1,335,207
1,338,645
1,352,689
1,352,691
1,360,067
21: 1,354,408
23: 1,352,611
1,358,891
1,362,008
28: 1,339,363
1,359,934
32: 1,362,678
35: 1,340,967
1,348,330
1,334,922
1,352,928
37: 1,339,050
1,340,966
1,341,449
1,351,530
42: 1,350,346
44: 1,339,881
1,359,807
1,362,443
50: 1,349,807
1,328,534
53: 1,344,384
54: 1,353,032
56: 1,343,170
57: 1,354,918
64: 1,337,970
66: 1,340,221
1,338,238
1,357,372
68: 1,361,234
69: 1,359,938
72: 1,357,565
1,363,089
77: R. 14,916
78: 1,347,627
79: 1,352,959
83: 1,335,746
89: 1,337,232
90: 1,338,230
93: 1,349,880
1,333,009
1,333,890
1,361,226
94: 1,360,460
1,363,069
96: 1,352,070
97: 1,360,379
102: 1,360,155
1,362,791
1,362,792
103: 1,353,994
1,361,535
1,361,536
1,361,537
1,361,538
1,361,539
108: 1,356,172
110: 1,341,021
111: 1,340,122
1,346,912
1,347,259
1,330,251
1,352,300
1,361,145

101— 111: 1,362,329
112: 1,345,653
1,332,761
113: 1,349,555
115: 1,328,368
118: 1,341,402
121: 1,360,566
122: 1,363,941
125: 1,339,857
1,347,743
1,334,175
1,355,047
127: 1,350,983
1,351,068
1,363,897
129: 1,354,478
130: 1,357,340
137: 1,348,006
142: 1,358,843
147: 1,335,025
1,335,026
150: 1,350,918
157: 1,362,638
165: 1,362,684
169: 1,351,545
175: 1,342,530
178: 1,338,785
185: 1,357,945
186: 1,349,895
195: 1,353,662
198: 1,333,308
199: 1,342,722
202: 1,344,026
212: 1,336,029
1,338,165
1,359,720
1,360,063
215: 1,347,505
216: 1,329,325
1,338,347
218: 1,339,316
1,341,693
1,355,844
219: 1,359,862
220: 1,356,171
224: 1,359,863
226: 1,330,386
227: 1,331,579
231: 1,348,253
232: 1,339,099
1,337,266
234: 1,351,175
240: 1,349,940
1,336,988
247: 1,330,793
248: 1,328,842
250: 1,338,642
274: 1,331,449
278: 1,345,302
1,342,629
282: 1,339,526
284: 1,337,186
287: 1,330,662
1,337,231
1,360,699
1,363,200
1,363,464
288: 1,340,380
289: 1,356,242
292: 1,327,241
1,344,489
294: 1,355,979
300: 1,354,639
301: 1,333,487
1,335,491
1,337,591
318: 1,331,924
1,353,742
327: 1,343,633
329: 1,351,070
333: 1,334,540
334: 1,345,255
338: 1,358,170
340: 1,334,469
1,358,021
341: 1,352,159
342: 1,342,355
345: 1,336,841
348: 1,337,574
1,350,127
349: 1,341,692
350: 1,341,691
351: 1,327,580
356: 1,356,420
362: 1,334,964
363: 1,338,044
364: 1,341,627
365: 1,348,900
367: 1,331,219
368: 1,330,374
1,331,262
1,333,938
1,343,073

101— 368: 1,347,152
371: 1,328,031
372: 1,332,381
373: 1,343,511
1,355,989
375: 1,342,803
378: 1,336,721
1,340,355
1,344,648
1,357,341
381: 1,343,917
1,345,794
382: 1,347,101
386: 1,344,039
1,350,015
389: 1,330,454
1,336,487
1,343,220
1,348,663
391: 1,347,312
393: 1,353,758
1,362,496
394: 1,339,607
395: 1,357,339
396: 1,328,725
1,340,072
400: 1,331,637
1,349,536
1,349,720
1,355,531
401.2: 1,346,583
1,351,954
402: 1,334,236
1,342,030
1,349,257
404: 1,341,574
405: 1,353,703
407: 1,340,194
408: 1,334,015
1,347,616
1,350,140
1,353,808
409: 1,339,654
412: 1,356,163
413: 1,343,537
1,349,579
414: 1,330,036
1,342,113
1,351,600
415: R. 14,963
1,333,829
1,354,527
1,355,753
1,363,768
422: 1,331,733
1,336,995
426: 1,341,186
1,359,034
102— 2: 1,327,487
1,327,488
1,329,443
1,331,398
1,333,786
1,333,900
1,335,996
1,343,036
1,344,558
1,345,130
1,346,177
1,349,014
1,350,220
1,351,540
1,352,542
1,357,927
1,350,009
3: 1,333,752
1,336,873
1,340,288
1,343,969
1,344,074
1,346,309
1,352,795
1,358,358
1,358,466
1,363,958
4: 1,337,063
7: 1,358,318
8: 1,335,003
1,351,794
9: 1,358,478
10: 1,354,100
12: 1,329,603
1,353,118
15: 1,363,043
16: 1,330,144
1,340,245
20: 1,327,899
1,346,454
21: 1,328,307
22: 1,362,705
23: 1,332,716
1,341,053
25: 1,350,845

102— 26: 1,327,372
1,327,545
1,327,655
1,328,967
1,331,510
1,333,199
1,346,639
1,356,746
28: 1,328,334
1,333,834
1,351,498
29: 1,327,451
1,327,531
1,329,134
1,329,736
1,330,079
1,330,291
1,330,424
1,330,425
1,331,648
1,335,343
1,335,406
1,336,656
1,337,343
1,339,735
1,340,546
1,340,871
1,343,557
1,343,747
1,344,733
1,347,125
1,350,339
1,351,078
1,355,130
1,3.8,652
1,360,602
1,361,286
1,362,021
1,363,079
32: 1,341,844
36: 1,337,525
1,337,960
1,342,413
1,358,236
1,362,519
37: 1,333,667
39: 1,327,037
1,327,600
1,329,972
1,333,496
1,333,777
1,336,391
1,336,701
1,336,828
1,338,802
1,340,536
1,342,652
1,343,415
1,347,716
1,351,416
1,352,543
1,352,544
1,356,633
1,356,828
1,357,703
1,360,148
1,364,008
40: 1,345,689
1,356,840
1,361,158
42: 1,337,993
1,358,279
103— 6: 1,358,632
8: R. 14,935
R. 14,946
1,327,868
1,332,333
1,332,334
1,334,542
1,339,224
1,344,883
1,345,725
1,347,033
1,351,397
1,353,492
1,353,845
1,354,330
1,356,684
1,357,671
1,358,238
1,362,552
1,363,443
10: 1,339,500
1,341,669
35: 1,330,621
1,333,793
43: R. 14,988
1,328,061
1,330,416
1,337,916
1,340,472
1,345,655
1,346,924

Digitized by Google

Classification of patents—Continued.

103— 43: 1,346,926
1,353,915
1,361,938
1,362,551
44: R. 14,922
1,327,517
1,329,895
1,332,153
1,332,547
1,333,656
1,334,906
1,338,118
1,338,265
1,339,347
1,339,723
1,340,632
1,341,846
1,344,085
1,346,548
1,346,960
1,348,771
1,348,772
1,348,773
1,348,814
1,350,775
1,352,237
1,353,745
1,355,907
1,356,589
1,358,504
1,360,128
1,360,353
1,361,046
1,361,343
1,361,423
1,362,040
1,362,144
1,362,621
1,363,451
1,363,716
1,363,793
52: 1,340,596
1,340,597
1,362,858
53: 1,355,285
54: 1,339,311
1,345,491
1,350,095
56: 1,329,950
1,341,906
59: 1,333,955
1,356,255
60: 1,334,408
1,346,289
1,354,862
61: 1,327,512
1,328,165
1,337,556
1,346,866
1,361,825
1,363,962
62: R. 14,999
1,329,137
1,329,560
1,332,041
1,335,361
1,341,194
1,346,980
1,354,557
1,357,394
63: 1,327,914
1,328,182
1,335,251
1,337,982
1,338,765
1,338,906
1,338,943
1,346,652
1,347,082
1,351,228
1,351,906
1,355,802
1,357,544
1,357,624
1,362,435
1,362,838
1,363,761
64: 1,327,583
1,329,171
1,338,829
65: 1,328,939
1,329,281
1,332,672
1,335,540
1,336,920
1,338,739
1,339,943
1,341,460
1,341,551
1,349,218
1,361,958
66: 1,353,303
67: 1,328,974

103— 67: 1,332,540
1,337,388
1,338,443
1,346,555
1,349,394
1,349,395
1,355,755
1,358,800
1,359,945
68: 1,330,852
69: 1,346,285
1,347,739
1,354,129
1,360,222
73: 1,334,935
75: 1,327,449
1,328,274
1,328,474
1,334,507
1,337,834
1,338,338
1,342,798
1,349,005
1,351,813
1,362,315
76: 1,327,423
1,331,846
1,337,057
1,343,574
1,351,605
77: 1,331,504
1,336,258
1,349,657
79: 1,335,478
1,337,180
1,340,185
1,349,370
1,363,878
80: 1,329,738
1,334,117
1,334,786
1,337,593
1,338,907
1,343,157
1,347,806
1,350,039
1,353,891
1,362,456
81: 1,342,087
82: 1,328,218
1,343,427
1,344,056
1,348,353
1,358,213
84: R. 14,987
1,333,279
1,333,713
1,333,889
1,334,038
1,339,137
1,339,621
1,343,190
1,343,510
1,361,196
1,363,198
85: 1,327,272
1,357,102
86: 1,334,330
87: 1,334,828
1,342,457
91: 1,346,563
1,346,564
92: 1,348,604
93: 1,341,096
99: 1,350,088
104— 5: 1,345,175
6: 1,354,533
7: 1,338,681
1,341,912
12: 1,351,106
1,351,246
13: 1,329,049
1,341,944
1,341,945
1,361,261
17: 1,347,943
20: 1,340,046
1,353,420
23: 1,328,248
1,338,653
1,354,002
1,355,011
1,360,097
25: 1,347,523
1,361,653
26: 1,332,797
1,333,992
28: 1,327,535
1,345,152
32: 1,341,501
35: 1,360,953
36: 1,353,018
37: 1,355,722

104— 41: 1,354,285
1,358,748
45: 1,349,012
48: R. 14,901
1,341,097
51: 1,341,302
52: 1,337,347
1,349,666
53: 1,361,476
1,362,885
1,362,886
1,363,133
56: 1,347,968
57: 1,337,873
59: 1,328,166
1,339,299
1,356,412
1,358,305
1,359,508
60: 1,350,873
64: 1,353,929
65: 1,350,086
66: 1,336,062
1,351,658
69: 1,336,456
88: 1,351,413
91: 1,327,071
1,341,996
1,346,313
1,352,969
92: 1,340,308
1,361,409
94: 1,347,482
1,361,809
98: 1,332,627
99: 1,345,851
1,359,542
101: 1,327,249
1,327,390
1,337,121
103: 1,333,183
1,355,618
109: 1,328,523
110: 1,329,461
111: 1,349,141
115: 1,344,923
1,347,763
1,355,460
117: 1,342,926
1,344,677
118: 1,329,304
1,329,305
119: 1,362,141
122: 1,340,962
124: 1,355,800
126: 1,347,758
1,362,275
130: 1,329,306
1,330,362
134: 1,339,502
1,356,794
135: 1,330,245
138: 1,336,732
149: 1,347,890
1,351,930
1,355,533
151: 1,327,215
162: 1,326,949
165: 1,352,928
174: 1,333,948
179: 1,358,976
235: 1,327,243
237: 1,346,447
1,360,902
244: 1,352,861
249: 1,336,442
252: 1,337,944
1,337,945
1,349,388
1,362,958
253: 1,333,921
1,349,387
1,355,414
254: 1,333,709
1,344,134
1,348,223
1,354,662
257: 1,356,358
258: 1,338,450
1,356,959
1,360,046
259: 1,334,896
260: 1,343,614
1,355,708
265: 1,351,965
268: 1,329,854
269: 1,346,962
1,347,349
1,353,072
273: 1,357,371
105— 14: 1,354,177
25: 1,348,114
27: 1,342,761

105— 27: 1,345,439
28: 1,337,610
1,337,914
1,358,835
34: 1,358,844
37: 1,334,715
1,361,877
38: 1,349,282
1,359,175
44: 1,354,679
45: 1,360,546
48: 1,339,395
1,339,513
1,341,961
49: 1,329,269
50: 1,331,591
1,335,243
1,352,452
51: 1,337,334
1,346,853
61: 1,355,774
1,358,557
62: 1,336,477
1,345,449
73: 1,343,698
82: 1,334,738
1,354,140
95: 1,342,137
99: 1,355,699
101: 1,352,026
102: 1,344,924
1,364,052
106: 1,344,945
1,344,946
1,359,920
107: 1,328,110
111: 1,360,709
113: 1,350,467
1,350,647
1,358,028
1,358,029
115: 1,357,928
117: 1,340,762
1,344,149
1,350,567
118: 1,345,867
119: 1,334,577
1,341,243
120: 1,336,555
1,351,038
133: 1,332,588
137: 1,362,050
138: 1,346,327
144: 1,336,361
150: 1,328,163
1,355,801
154: 1,336,370
1,343,631
155: 1,355,023
157: 1,331,128
1,344,397
160.5: 1,337,439
163: 1,347,025
164: 1,344,947
165: 1,347,878
1,348,991
1,360,319
166: 1,341,776
1,341,777
1,341,778
1,341,779
1,341,780
1,341,781
172: 1,345,464
174: 1,354,112
1,363,923
175: 1,344,740
1,351,039
1,359,861
176: 1,358,724
1,359,444
178: 1,363,205
179: 1,341,249
1,358,016
180: 1,328,749
1,335,759
1,347,828
190: 1,328,592
195: 1,352,878
1,356,653
196: 1,347,887
1,351,459
1,358,320
197: 1,331,887
1,344,993
1,358,043
199: 1,347,898
1,356,001
1,357,796
202: 1,361,808
204: 1,330,049
205: 1,349,624
1,351,326

105— 207: 1,348,124
208: 1,336,458
213: 1,335,225
1,345,528
214: 1,331,529
1,334,671
215: 1,351,972
220: 1,343,618
1,355,344
1,356,700
1,358,424
1,358,425
222: 1,353,489
224: 1,328,512
1,336,436
230: 1,357,728
239: 1,342,085
1,342,088
1,342,091
1,342,092
1,342,094
243: 1,330,950
1,344,323
244: R. 14,785
1,354,915
248: 1,342,089
250: 1,342,095
262: 1,336,410
264: 1,333,293
1,341,291
269: 1,330,978
1,361,608
270: 1,357,994
271: 1,327,623
1,330,977
1,332,772
1,332,773
1,338,010
1,351,114
1,357,251
272: 1,348,319
274: 1,349,760
1,358,678
280: 1,344,208
288: 1,344,403
301: 1,342,093
302: 1,342,090
307: 1,338,387
1,363,059
308: 1,336,134
315: 1,342,702
1,361,333
333: 1,333,959
334: 1,329,440
341: 1,337,492
1,339,076
342: 1,363,679
344: 1,332,960
345: 1,354,911
354: 1,327,586
1,350,457
355: 1,356,649
1,358,361
1,363,562
357: 1,330,361
358: 1,343,241
361: 1,352,981
362: 1,338,392
1,340,188
363: 1,344,243
364: 1,338,046
366: 1,349,200
1,360,412
367: 1,333,472
368: 1,333,144
1,336,301
1,339,890
1,340,438
1,347,960
1,350,699
369: 1,336,569
370: 1,349,735
371: 1,336,682
372: 1,351,125
374: 1,327,894
375: 1,338,805
376: 1,327,634
1,336,892
377: 1,333,464
1,340,667
1,343,291
1,344,322
1,347,174
1,348,515
1,357,119
1,363,195
378: 1,337,348
1,361,896
383: 1,355,442
384: 1,358,154
1,360,002
388: 1,346,336
390: 1,344,993

105— 391: 1,336,636
394: 1,330,475
1,333,177
398: 1,353,102
400: 1,327,367
401: 1,335,224
402: 1,355,209
404: 1,341,787
406: 1,328,684
1,329,006
410: 1,332,857
1,336,864
1,342,604
1,349,442
1,351,566
1,358,886
1,359,278
411: 1,348,482
1,349,106
1,350,442
1,355,331
414: 1,328,683
1,330,415
1,345,258
420: 1,340,576
1,345,257
1,347,640
1,347,963
1,347,964
1,353,228
1,353,484
1,358,500
1,358,501
429: 1,338,882
1,357,529
436: 1,333,430
1,359,396
447: 1,345,668
1,363,396
448: 1,349,885
1,350,903
1,353,364
449: 1,334,980
1,341,310
451: 1,357,305
453: 1,331,039
457: 1,338,728
1,339,379
1,343,281
1,345,338
106— 1: 1,331,519
1.5: 1,330,060
1,342,326
3: 1,338,393
4: 1,344,058
5: 1,357,594
5.5: 1,344,631
6: 1,349,892
7: 1,356,784
7.5: 1,335,208
8: 1,330,979
1,335,657
1,341,489
1,341,490
1,341,540
1,343,282
1,349,737
1,355,830
1,359,137
1,359,434
1,363,563
8.1: 1,333,196
9: 1,327,448
1,329,434
1,330,263
1,337,264
1,344,461
1,355,689
1,356,211
1,360,355
1,362,316
10: 1,327,758
1,335,167
1,339,266
1,341,510
1,345,682
1,356,939
1,356,366
11: 1,336,740
1,343,040
1,346,959
1,362,274
1,362,317
12: 1,346,574
15: 1,332,980
18: 1,332,348
1,332,370
1,338,566
1,345,666
1,356,830
21: 1,329,094
22: 1,331,127
1,345,694

Digitized by Google

Classification of patents—Continued.

106— 22: 1,354,154
1,355,834
23: 1,332,320
1,332,926
1,334,297
1,336,858
1,351,670
1,359,087
1,360,744
1,363,229
1,364,055
24: 1,327,145
1,334,272
1,335,038
1,343,929
1,344,324
1,348,099
1,349,901
1,351,017
1,354,333
1,355,406
1,362,563
1,363,045
1,363,879
25: 1,342,360
1,351,087
27: 1,338,033
1,348,494
28: 1,330,058
1,338,117
1,360,130
29: 1,333,510
30: 1,364,004
31: 1,327,726
1,329,232
1,331,217
1,334,061
1,334,317
1,340,181
1,346,397
1,347,869
1,357,852
1,364,037
31.5: 1,353,003
33: 1,345,057
34: 1,331,554
1,342,433
1,348,789
1,357,375
35: 1,329,372
1,329,374
1,336,178
36: 1,357,647
36.1: 1,327,569
1,331,937
1,344,141
1,362,917
36.2: 1,360,317
37: 1,339,552
1,342,602
1,354,401
1,357,876
1,360,759
38: 1,351,874
39: 1,361,759
40: 1,330,543
1,342,601
1,342,603
1,343,135
1,349,156
1,353,384
1,353,385
1,355,985
1,357,335
1,357,614
362: 1,332,058

107— 1: 1,347,727
2: 1,334,426
4: 1,330,764
1,334,024
1,340,805
7: 1,329,931
1,331,752
1,335,937
1,339,087
1,355,018
1,357,665
1,363,013
8: 1,328,483
1,331,693
1,340,371
1,342,675
1,348,081
1,358,631
9: 1,337,152
1,345,631
1,355,908
1,362,057
12: 1,339,637
14: 1,331,183
1,345,500
1,351,903
1,352,826

15: 1,326,930
1,328,308
1,331,130
1,363,614
16: 1,343,120
17: 1,327,806
1,341,226
18: 1,330,286
1,344,091
19: 1,337,988
20: 1,330,154
1,341,137
1,344,286
1,346,405
1,355,017
1,355,893
21: 1,343,932
1,360,033
22: 1,332,435
1,357,611
24: 1,353,077
26: 1,352,424
27: 1,328,025
1,331,325
1,358,716
28: 1,346,270
1,348,269
29: 1,347,073
45: 1,351,018
1,330,816
48: 1,352,755
1,352,756
1,360,324
49: 1,329,586
1,356,692
50: 1,327,461
1,357,001
51: 1,343,844
1,358,973
1,359,247
1,362,174
52: 1,353,386
1,363,706
54: R. 14,887
1,330,018
1,331,753
1,341,081
1,362,920
55: 1,334,115
1,345,107
1,349,436
56: 1,348,355
1,350,278
57: 1,334,025
1,335,915
1,339,616
1,345,079
1,354,185
1,363,781
58: 1,329,086
1,332,590
1,333,781
1,337,500
1,344,285
1,350,859
1,356,870
1,358,684
59: 1,328,745
1,336,782
63: 1,332,216
1,337,909
1,340,946
1,359,886
64: 1,359,306
66: 1,335,484
1,341,084
1,342,045
1,346,338
67: 1,327,328

108— 1: 1,346,229
1,347,541
1,354,360
3: 1,331,462
5: 1,342,510
1,343,785
1,343,786
1,344,824
1,346,281
1,347,974
1,351,256
1,351,411
1,354,637
5.4: 1,330,975
1,332,638
1,336,993
1,340,685
1,360,092
1,360,562
5.6: 1,327,095
1,328,200
1,330,980
1,359,182
6: 1,346,752

108— 7: 1,326,899
1,332,223
1,340,347
1,345,099
1,345,627
1,348,498
1,348,503
1,348,858
1,357,265
1,358,922
1,362,755
8: 1,329,883
1,340,348
9: 1,335,756
1,345,683
1,356,930
1,358,863
10: 1,329,657
1,339,033
1,343,792
1,351,492
1,353,807
1,356,940
12: 1,340,949
16: 1,331,825
1,332,280
1,348,529
17: 1,336,118
1,354,050
1,358,113
1,359,167
19: 1,330,493
20: 1,341,254
22: 1,329,794
1,338,262
23: 1,345,501
1,347,669
1,360,509
1,360,931
26: 1,327,770
1,331,834
1,331,835
1,337,840
1,354,867
27: 1,330,309
28: 1,343,461
1,349,264
1,351,703
1,356,368
80: 1,340,545

109— 1: 1,347,118
1,347,693
1,349,138
1,352,906
1,358,961
2: 1,329,511
1,336,347
1,342,204
1,350,863
1,362,421
3: 1,337,554
1,350,766
6: 1,355,063
150: 1,339,741

110— 1: 1,331,774
1,333,104
1,341,645
1,351,802
5: 1,344,668
8: 1,346,055
18: 1,337,668
1,339,729
1,349,785
19: 1,338,125
21: 1,347,054
1,352,261
22: 1,331,153
1,332,417
1,336,285
1,338,136
1,342,337
23: 1,358,204
24: 1,328,116
28: 1,328,296
1,336,125
1,338,454
1,344,333
1,349,148
1,349,971
1,354,741
1,355,172
30: 1,356,028
31: 1,349,537
1,349,899
32: 1,339,859
1,355,487
36: 1,327,765
1,342,026
37: 1,344,144
39: 1,348,883
1,355,095
40: 1,327,399
1,330,041

110— 40: 1,339,531
1,340,725
1,341,868
1,342,206
1,357,786
1,363,272
44: 1,326,906
1,328,611
1,328,883
1,333,696
1,340,274
1,341,023
1,343,702
1,352,464
1,352,465
1,352,466
1,355,739
1,360,250
1,361,988
45: 1,327,764
47: 1,329,617
1,346,464
1,346,465
1,352,467
1,354,346
1,354,357
1,355,269
49: 1,352,043
1,357,441
54: 1,338,897
1,338,898
1,338,922
1,338,924
1,338,925
1,338,956
1,339,000
1,355,157
1,360,285
55: 1,347,261
56: 1,331,240
1,332,914
57: 1,346,992
58: 1,333,116
1,348,918
1,348,919
1,353,432
1,353,740
1,358,854
1,362,744
60: 1,327,727
65: 1,331,893
67: 1,332,771
1,334,548
1,333,652
1,333,653
73: 1,355,370
74: 1,329,447
1,330,536
1,338,094
1,349,790
75: 1,341,594
80: 1,364,042
86: 1,341,896
87: 1,340,907
1,342,931
1,343,243
1,357,575
93: 1,346,010
1,363,005
95: 1,347,514
98: 1,334,937
1,349,574
1,351,797
1,355,807
99: 1,329,891
1,330,925
1,339,615
1,341,977
1,355,115
104: 1,351,460
1,353,291
1,355,444
1,361,129
105: 1,342,135
1,344,666
108: 1,340,549
115: 1,347,281
1,348,414
117: 1,335,265
122: 1,358,095
147: 1,333,861
150: 1,329,618
162: 1,340,865
1,356,808
1,356,809
165: 1,348,659
1,363,116
171: 1,342,008
1,348,737
172: 1,331,152
1,332,005
1,333,732
1,335,194

110— 172: 1,350,468
1,354,429
175: 1,330,972
1,333,225
1,354,950
177: 1,336,054
1,354,183

111— 1: 1,326,902
1,355,691
2: 1,333,339
5: 1,331,808
1,337,184
1,340,936
6: 1,337,562
16: 1,330,586
1,331,222
1,332,930
1,339,576
17: 1,359,028
21: 1,327,089
23: 1,349,920
25: 1,353,927
1,357,438
30: 1,329,964
1,349,462
38: 1,328,730
40: 1,328,946
43: 1,358,942
49: 1,358,715
51: 1,357,298
52: 1,328,222
1,344,764
54: 1,340,054
1,352,482
1,361,695
66: 1,333,391
71: 1,334,837
1,347,441
1,363,176
76: 1,327,353
1,345,390
79: 1,345,517
80: 1,362,834
83: 1,328,375
87: 1,330,451
90: 1,362,569
91: 1,359,177
92: 1,347,249
96: 1,358,587
229: 1,339,036

112— 2: 1,327,237
1,331,164
1,333,545
1,340,099
1,341,448
1,348,051
1,348,526
1,351,029
1,358,228
3: 1,342,423
1,344,605
5: 1,329,398
1,338,910
7: 1,328,821
9: 1,337,972
11: 1,351,134
12: 1,327,972
14: 1,347,001
18: 1,351,179
19: 1,349,410
20: 1,339,230
1,358,705
24: 1,337,650
26: 1,348,247
28: 1,347,038
33: 1,338,476
1,338,477
1,347,589
34: 1,354,795
35: 1,355,825
1,361,952
36: 1,351,637
1,353,827
37: 1,356,795
38: 1,352,222
1,360,262
39: 1,342,685
1,350,377
1,355,824
40: 1,333,560
41: 1,355,856
42: 1,341,065
43: 1,332,536
45: 1,333,561
1,341,570
1,342,903
1,356,246
46: 1,339,633
1,341,061
57: 1,344,424
58: 1,329,933
1,330,781
60: 1,349,901

112— 60: 1,357,237
61: 1,342,165
1,351,090
62: 1,339,645
1,356,512
63: 1,336,824
1,356,334
65: 1,330,156
67: 1,332,664
1,334,640
68: 1,343,337
70: 1,333,832
71: 1,330,555
1,339,732
1,345,025
1,346,102
1,360,704
73: 1,343,278
74: 1,331,176
75: 1,359,712
76: 1,344,748
1,358,855
77: 1,331,070
80: R. 14,997
1,348,600
1,354,119
1,357,687
1,362,984
86: 1,328,969
1,339,049
1,344,611
90: 1,358,979
93: 1,361,520
95: 1,341,160
1,347,232
99: 1,350,449
1,356,762
100: 1,327,348
1,327,646
1,328,108
1,329,221
1,329,245
1,334,626
1,334,650
1,350,326
102: 1,348,054
102: 1,354,919
103: 1,361,218
104: 1,350,296
1,354,308
1,355,914
105: 1,354,794
1,361,217
108: 1,348,229
110: 1,336,346
112: 1,344,679
113: 1,329,399
114: 1,355,119
1,359,858
115: 1,343,149
1,347,406
1,363,172
117: 1,329,411
122: R. 14,813
R. 14,814
1,339,742
1,353,534
1,361,411
1,363,652
125: 1,336,825
130: 1,360,870
131: 1,330,601
132: 1,334,611
1,348,176
135: 1,328,885
136: 1,342,775
1,346,988
1,352,675
1,360,598
137: 1,346,884
141: 1,359,877
143: 1,334,589
147: 1,340,782
1,357,105
152: 1,347,503
153: 1,332,054
1,357,065
158: 1,331,099
1,338,064
1,338,074
1,353,837
159: 1,329,763
1,331,078
160: 1,336,340
162: 1,334,651
165: 1,335,374
169: 1,352,508
174: 1,342,669
176: 1,347,313
178: 1,333,310
1,334,920
1,341,233
1,351,866

Digitized by Google

Classification of patents—Continued.

112— 178: 1,352,061
187: 1,339,243
189: 1,343,823
193: 1,348,965
196: 1,346,183
197: 1,344,284
198: 1,332,511
200: 1,332,447
1,335,047
1,350,934
203: 1,354,514
1,354,783
1,355,242
1,356,938
208: 1,327,647
210: 1,341,388
1,346,120
214: 1,348,133
1,347,810
216: 1,329,636
219: 1,332,071
1,352,226
1,359,266
1,361,356
220: 1,354,603
224: 1,333,259
225: 1,350,592
226: 1,334,934
231: 1,351,869
235: 1,339,121
1,350,301
1,355,160
239: 1,329,491
241: 1,328,023
1,349,115
242: 1,342,800
248: 1,329,637
1,339,733
1,361,057
1,361,247
252: 1,327,638
1,332,512
1,332,683
1,333,594
1,336,808
1,338,348
1,338,373
1,338,374
1,342,150
1,346,814
1,352,280
1,352,514
1,357,468
1,358,847
1,359,414
1,361,871
254: 1,327,232
1,329,638
255: 1,346,103
256: 1,348,527
1,350,729
1,351,601
257: 1,335,468
260: 1,350,931
1,355,216
1,358,567
1,360,357
261: 1,344,787
1,361,741
262: 1,341,769
1,344,000
1,348,645
1,349,711
1,349,712
1,361,292
265: 1,327,191
266: 1,331,717
1,340,460
1,353,554

113— 1: 1,331,884
1,332,785
1,333,316
1,333,377
1,344,405
1,346,490
14: 1,329,259
1,330,071
1,333,084
1,348,650
16: 1,338,619
18: 1,349,233
1,349,234
19: 1,332,352
1,340,842
23: 1,327,994
1,349,837
1,351,831
24: 1,327,966
1,343,538
1,363,767
30: 1,329,140
1,362,083
32: 1,356,543

113— 33: 1,382,641
1,355,282
35: 1,334,787
1,353,186
38: 1,338,335
1,340,634
1,345,594
1,356,748
1,362,595
39: 1,346,719
42: 1,353,524
44: 1,329,069
46: 1,341,721
1,351,911
1,354,785
47: 1,359,554
48: 1,335,007
1,335,906
49: 1,336,388
1,351,048
1,353,831
1,363,897
51: 1,336,065
59: 1,330,765
1,335,578
1,337,677
1,353,009
1,358,869
60: 1,333,550
1,362,905
61: 1,338,716
1,349,044
68: 1,343,493
80: 1,328,020
1,336,013
1,343,913
1,343,914
1,347,483
1,348,580
1,351,153
1,352,641
1,354,530
1,355,040
1,358,480
1,363,642
104: 1,334,971
110: 1,355,654
1,358,311
111: 1,332,037
1,337,486
1,350,856
1,359,260
112: 1,327,098
1,336,031
1,337,023
1,340,264
1,341,082
1,342,703
1,346,943
1,347,335
1,348,328
1,361,936
1,362,457
113: 1,353,136
1,362,286
114: 1,330,964
1,347,295
1,349,833
1,352,578
116: 1,327,454
1,329,268
1,331,028
1,332,838
1,333,750
1,334,746
1,339,104
1,340,449
1,341,067
1,346,492
1,356,344
1,360,241
1,363,981

114— 0.5: 1,341,677
1,354,204
1: 1,344,151
10: 1,342,064
13: 1,346,720
1,354,671
15: 1,336,557
16: 1,327,809
1,330,755
1,335,059
1,336,287
1,337,110
1,343,043
1,345,836
1,348,686
1,350,225
1,352,922
1,358,081
1,363,137
1,363,851
16.7: 1,351,027

114— 16.7: 1,352,992
17: 1,363,937
18: 1,347,092
1,353,652
1,356,791
1,357,526
1,357,527
20: 1,337,809
1,348,152
1,354,091
1,360,036
1,360,037
21: 1,344,352
1,357,976
23: 1,330,418
1,346,264
1,351,526
24: 1,328,571
1,332,302
1,360,259
1,360,325
25: 1,360,258
1,360,276
26: 1,335,561
36: 1,360,291
39: 1,331,623
1,336,226
1,356,300
44: 1,334,445
45: 1,333,580
1,336,941
49: 1,352,950
50: 1,331,014
1,332,889
1,337,601
51: 1,328,014
1,328,434
1,329,225
1,331,610
1,333,783
1,337,035
1,338,816
1,344,505
1,351,100
1,353,623
53: 1,339,717
1,341,289
1,348,595
1,363,266
54: 1,332,384
1,332,483
1,337,250
56: 1,345,213
1,352,753
61: 1,344,903
63: 1,359,059
65: 1,331,604
1,338,815
1,342,408
1,349,075
1,353,880
1,356,956
66.5: 1,331,925
1,333,799
1,339,755
1,353,669
68: 1,328,122
1,330,517
1,335,278
1,337,747
1,349,800
1,355,656
1,355,937
78: 1,336,018
1,336,019
1,336,020
1,355,513
77: 1,338,246
1,351,836
1,355,894
1,359,152
1,363,039
79: 1,328,841
1,356,993
1,357,699
80: 1,338,712
1,352,998
83: 1,348,312
1,357,509
84: 1,336,866
1,353,235
86: 1,343,392
88: 1,332,324
103: 1,348,912
1,362,950
117: 1,361,221
118: 1,337,060
122: 1,335,893
123: 1,332,199
1,336,088
124: 1,331,202
1,339,628
142: 1,358,555

114— 144: 1,361,127
145: 1,344,518
150: 1,337,475
1,339,550
152: 1,330,754
160: 1,360,105
163: 1,327,643
1,362,450
167: 1,358,087
168: 1,363,061
174: 1,357,025
1,361,551
176: 1,350,507
177: 1,336,088
188: 1,358,640
191: 1,336,702
1,354,383
192: 1,350,081
195: 1,328,727
201: 1,352,202
203: 1,342,612
206: 1,340,002
1,356,481
208: 1,327,201
1,329,563
1,335,816
1,357,552
1,362,209
218: 1,328,985
1,332,325
219: 1,339,663
1,361,902
1,363,235
221: 1,358,359
1,363,406
222: 1,327,522
1,349,167
1,362,518
224: 1,334,836
1,336,295
1,358,326
225: 1,327,856
226: 1,358,892
229: 1,334,194
235: 1,340,024
1,355,718
1,358,360
236: 1,338,530
1,356,218
238: 1,327,614
1,336,110
240: 1,328,549
1,330,729
1,331,800
1,333,224
1,333,338
1,335,070
1,337,502
1,337,920
1,338,706
1,339,372
1,341,578
1,350,667
1,353,811
1,355,267
1,357,473

115— 0.5: 1,333,447
1: 1,344,317
1,345,326
6: 1,355,156
11: 1,338,115
12: 1,337,442
17: 1,328,313
1,363,289
18: 1,330,842
19: 1,330,109
1,341,575
1,360,101
24: 1,340,976
26: 1,337,372
28: 1,329,228
31: 1,329,778
1,345,237
32: 1,331,586
33: 1,349,403
34: 1,347,148
1,359,150
1,361,403
35: 1,331,819
37: 1,329,387
1,330,145
1,336,770
42: 1,331,101
50: 1,350,259
1,360,182

116— 1: 1,327,266
1,327,323
1,327,416
1,327,573
1,327,993
1,328,093
1,328,173
1,328,639

116— 1: 1,328,772
1,329,053
1,329,275
1,329,680
1,329,772
1,330,206
1,333,076
1,333,703
1,334,059
1,338,637
1,339,350
2: 1,337,839
1,358,638
11: 1,343,271
13: 1,346,768
14: 1,332,729
16: 1,348,378
17: 1,345,309
18: 1,331,149
21: 1,345,384
22: 1,342,584
27: 1,345,293
1,348,827
31: 1,327,027
1,327,128
1,327,605
1,328,073
1,328,097
1,328,387
1,328,404
1,328,762
1,328,978
1,329,751
1,330,076
1,330,668
1,330,774
1,330,929
1,330,970
1,331,002
1,331,094
1,331,158
1,331,674
1,331,860
1,332,094
1,332,226
1,337,553
1,337,848
1,342,391
1,360,111
1,362,428
1,362,567
33: 1,332,180
1,332,267
1,332,618
1,335,827
1,339,873
1,342,044
1,342,543
1,348,930
1,349,467
1,350,032
1,355,380
1,361,762
1,362,567
34: 1,341,613
1,346,599
1,346,961
1,349,774
1,350,016
1,351,237
1,354,355
1,357,009
1,358,156
1,359,098
1,359,262
35: 1,344,152
1,357,504
1,362,324
36: 1,339,071
1,347,334
39: 1,356,472
40: 1,339,246
1,353,359
1,359,308
41: 1,343,761
1,349,280
1,355,061
1,362,531
42: 1,328,559
1,330,698
1,333,534
43: 1,336,609
1,350,682
1,350,960
1,351,513
1,351,913
1,356,814
1,356,839
1,361,415
44: 1,327,021
1,327,785
1,331,329
44.6: 1,331,694
45: 1,342,850

116— 45: 1,347,063
1,349,848
1,356,896
1,363,863
46: 1,332,497
1,333,365
1,334,979
1,335,083
1,336,381
1,336,489
1,336,588
1,337,185
1,337,405
1,337,572
1,337,669
1,338,114
1,339,589
1,340,082
1,346,453
1,347,246
1,350,463
1,353,128
1,356,295
1,363,936
48: 1,342,007
1,348,716
1,351,605
1,351,774
1,355,717
1,356,088
1,360,141
49: 1,328,941
1,332,869
1,351,773
50: 1,333,973
1,336,106
1,338,112
1,347,274
1,347,420
1,347,945
1,348,097
1,349,689
1,351,532
1,352,327
1,362,283
1,362,665
1,362,752
51: 1,338,047
1,340,081
1,341,352
1,348,367
1,353,790
1,357,433
52: 1,332,575
1,335,355
1,336,644
1,336,713
1,337,991
1,339,988
1,340,282
1,340,363
1,340,988
1,345,863
1,348,191
1,349,092
1,351,283
1,354,628
1,358,438
1,361,242
1,363,497
1,363,573
53: 1,336,053
1,338,430
1,362,234
54: 1,332,258
1,334,628
1,341,089
1,343,529
1,350,513
1,350,998
1,351,260
1,353,023
1,353,950
1,353,964
1,355,982
1,357,040
1,361,270
55: 1,339,685
56: 1,346,769
1,347,730
57: 1,346,276
1,345,635
59: 1,331,975
1,333,585
63: 1,332,917
1,353,909

Digitized by Google

Classification of patents—Continued.

116— 63: 1,354,249
1,356,361
1,359,529
1,360,796
65: 1,329,046
67: 1,351,857
1,356,455
1,357,032
1,360,203
72: 1,345,611
74: 1,343,385
80: 1,349,694
82: 1,342,104
84: 1,347,005
86: 1,353,388
1,357,205
106: 1,345,787
1,356,104
109: 1,338,197
110: 1,335,002
111: 1,344,829
114: 1,340,216
1,340,830
1,347,317
1,356,303
1,357,302
1,362,745
1,363,540
116: 1,359,356
117: 1,351,419
118: 1,337,029
1,337,030
1,361,473
119: 1,334,525
1,338,861
1,346,729
1,346,856
1,355,025
124: 1,359,962
126: 1,340,727
1,344,022
129: 1,357,903
1,357,904
1,361,097
131: 1,354,149
132: 1,363,111
133: 1,335,261
1,345,387
1,351,362
134: 1,359,147
135: 1,337,319
1,354,983
1,351,971
137: 1,351,004
138: 1,335,921
1,357,248
142: 1,337,152
1,342,863
143: 1,337,277
144: 1,332,991
1,336,994
1,344,082
1,344,724
1,345,251
1,348,377
1,351,223
1,353,575
1,355,550
147: 1,339,158
150: 1,362,948
152: 1,331,818
162: 1,340,059
165: 1,357,915
169: 1,361,084
172: 1,356,259
173: 1,337,337
1,338,210
1,339,849
1,343,140
1,355,861
1,359,818
1,360,584
1,362,704
187: 1,345,610
198: 1,347,339
220: 1,347,389
229: 1,345,771
240: 1,345,623
1,346,551
1,347,120
248: 1,347,363
117— 329: 1,346,331
118— 1: 1,353,633
11: 1,326,950
1,352,657
16: 1,335,193
18: 1,339,803
1,350,578
1,351,701
1,353,414
32: 1,333,147
1,338,577
1,358,397

118— 32: 1,358,409
35: 1,352,924
43: 1,363,987
47: 1,356,844
55: 1,337,658
1,338,000
57: 1,356,923
59: 1,333,772
1,351,895
63: 1,335,868
64: 1,333,169
1,343,704
66: 1,338,102
1,345,284
68: 1,358,930
69: 1,338,648
1,363,279
119— 4: 1,328,008
5: 1,332,953
1,333,454
8: 1,338,942
1,349,747
9: 1,357,188
16: 1,328,810
1,354,721
17: 1,347,997
18: 1,344,923
19: 1,342,371
1,345,968
20: 1,330,404
1,330,405
1,348,343
1,361,060
21: 1,331,040
22: 1,337,954
1,361,069
23: 1,329,104
1,358,119
25: 1,328,861
1,332,428
1,347,930
1,349,031
1,351,456
1,357,267
1,358,608
26: 1,331,908
27: 1,327,386
1,337,926
1,344,094
1,347,941
1,354,130
1,355,845
32: 1,345,581
33: 1,327,104
34: 1,329,494
1,350,971
36: 1,337,183
1,344,591
37: 1,328,032
1,345,593
38: 1,349,319
39: 1,330,141
42: 1,346,717
44: 1,332,110
1,332,993
1,334,225
1,344,019
1,345,483
1,356,949
1,361,038
45: 1,338,725
1,342,434
1,343,071
1,347,266
1,350,209
1,350,264
1,351,308
1,359,602
46: 1,339,543
47: 1,336,191
48: 1,329,124
1,329,963
49: 1,345,229
1,347,223
1,359,052
50: 1,336,902
1,351,103
1,354,223
51: 1,334,182
1,343,949
52: 1,335,424
1,339,763
1,346,784
1,352,613
53: 1,331,008
1,332,083
1,333,828
1,335,155
1,340,096
1,340,869
1,341,987

119— 53: 1,344,789
1,346,024
1,346,027
1,346,878
1,347,425
1,350,523
1,354,802
1,359,158
1,361,045
54: 1,333,800
1,334,075
1,336,320
1,337,436
1,346,025
1,346,026
1,346,936
1,355,435
1,358,525
1,362,074
55: 1,343,093
1,343,817
1,344,987
1,357,755
56: 1,345,350
1,355,399
59: 1,347,070
60: 1,330,685
1,333,930
61: 1,329,288
1,333,775
1,338,077
1,349,841
1,350,013
1,356,636
1,358,484
1,361,350
1,363,775
63: 1,328,070
1,337,262
1,356,233
65: 1,359,681
70: 1,359,091
72: 1,332,554
73: 1,329,516
1,329,939
1,330,723
1,333,519
1,337,075
1,337,636
1,340,085
1,341,070
1,341,919
1,341,920
1,343,010
1,346,307
1,348,489
1,350,411
1,350,629
1,353,146
1,354,943
1,357,868
1,358,945
1,359,852
1,359,885
74: 1,328,036
75: 1,328,207
1,330,437
1,330,438
1,330,439
1,330,440
1,344,189
1,344,750
77: 1,330,995
1,337,637
78: 1,363,242
80: 1,327,734
1,354,349
81: 1,345,113
1,346,122
82: 1,332,132
1,345,238
1,360,082
84: 1,328,256
85: 1,335,441
88: 1,327,246
96: 1,359,905
1,362,505
97: 1,346,954
98: 1,334,256
1,340,357
1,348,093
1,363,054
99: 1,327,374
102: 1,353,376
103: 1,328,140
1,342,893
1,357,414
1,357,415
1,357,416
1,357,417
106: 1,349,665
115: 1,357,133
117: 1,350,732

119— 124: 1,334,541
127: 1,332,809
1,337,406
128: 1,341,900
130: 1,351,140
132: 1,338,606
1,344,791
1,346,557
133: 1,362,276
135: 1,361,541
136: 1,332,484
138: 1,346,278
1,347,352
1,349,324
139: 1,346,272
142: 1,335,118
147: 1,327,735
1,350,679
1,355,538
148: 1,336,975
1,350,480
1,360,940
149: 1,337,927
1,344,651
1,359,224
150: 1,329,417
1,330,166
1,335,178
1,337,925
1,341,989
1,360,941
153: 1,343,213
1,343,596
154: 1,344,828
156: 1,338,084
1,340,071
157: 1,327,088
1,360,007
158: 1,345,801
159: 1,342,776
160: 1,335,629
120— 1: 1,328,548
1,331,995
1,348,499
1,360,380
1,363,546
4: 1,330,470
1,343,960
6: 1,333,489
1,344,375
8: 1,332,004
1,339,155
1,343,621
9: 1,341,509
15: 1,327,038
17: 1,340,331
1,342,416
1,349,950
1,351,916
1,355,627
18: 1,328,300
1,336,819
1,345,436
1,346,711
1,349,025
1,350,983
1,351,552
1,353,345
1,353,352
1,353,402
1,357,835
1,357,980
1,358,548
1,359,568
1,360,225
1,360,230
1,361,115
21: 1,329,420
1,334,860
1,337,412
1,361,554
24: 1,330,541
1,338,669
1,357,971
1,357,989
25: 1,344,335
1,345,087
1,345,872
1,351,378
28: 1,328,476
1,340,411
1,343,527
1,349,905
1,353,150
1,356,769
29: 1,354,697
32: 1,333,803
1,345,986
33: 1,330,637
1,353,279
34: 1,345,978
35: 1,362,322
36: 1,363,848

120— 38: 1,344,434
1,352,677
1,353,215
1,353,896
1,363,876
42: 1,345,155
1,351,575
1,353,625
1,356,195
1,360,647
1,363,339
43: 1,327,922
1,345,044
1,358,215
44: 1,336,119
1,340,926
1,352,340
45: 1,339,011
46: 1,328,215
1,335,341
1,336,572
1,341,850
1,342,736
1,346,045
1,347,800
1,351,574
1,351,591
1,357,068
1,358,285
47: 1,343,521
1,346,184
1,359,880
48: 1,338,629
1,340,277
1,355,961
1,362,291
50: 1,327,729
1,347,901
1,351,873
1,357,083
1,359,918
52: 1,335,580
57: 1,347,527
1,350,118
1,353,187
1,361,355
58: 1,355,923
67: 1,334,078
1,345,959
1,355,547
73: 1,338,106
82: 1,347,599
83: 1,327,236
84: 1,339,707
1,346,982
1,356,204
1,358,568
1,359,725
1,361,732
85: 1,327,459
86: 1,332,068
87: 1,333,644
1,343,796
89: 1,332,091
95: 1,330,105
1,362,055
96: 1,333,740
1,341,943
101: 1,334,152
1,344,329
1,348,410
103: 1,343,245
106: 1,361,874
107: 1,336,432
1,336,964
1,341,847
1,342,576
1,353,730
1,361,644
108: 1,347,164
1,359,548
109: 1,355,013
109.5: 1,333,129
1,340,895
1,348,637
1,360,751
110: 1,359,865
113: 1,333,034
115: 1,337,196
116: 1,346,902
128: 1,328,318
121— 4: 1,340,505
9: 1,336,930
1,352,428
1,359,935
1,361,636
10: 1,344,523
1,345,271
1,345,364
1,359,119
1,360,011
11: 1,356,580
12: 1,355,768

121— 14: 1,327,419
1,328,527
1,344,126
15: 1,344,170
1,348,280
1,348,863
1,357,312
17: 1,336,921
1,338,259
1,345,270
1,355,175
18: 1,343,610
1,343,649
1,353,796
1,354,348
21: 1,331,353
1,333,725
1,334,433
1,351,585
24: 1,361,431
26: 1,352,191
1,354,833
27: 1,350,342
28: 1,342,540
1,352,469
30: 1,330,922
31: 1,329,774
1,330,170
1,332,845
32: 1,330,171
1,345,495
1,346,341
1,346,978
1,350,505
1,355,806
34: 1,339,565
35: 1,329,571
1,339,426
1,350,102
1,356,579
36: 1,358,486
37: 1,353,275
38: 1,338,321
1,352,250
1,360,396
40: 1,329,553
41: 1,328,437
1,339,671
1,339,939
1,353,114
1,358,166
1,361,904
42: 1,353,656
45: 1,348,607
1,348,608
47: 1,363,067
49: 1,330,629
1,343,316
50: 1,343,612
55: 1,334,665
1,336,997
1,338,832
58: 1,341,328
59: 1,335,764
1,336,846
1,359,523
60: 1,328,033
61: 1,343,331
62: 1,332,756
1,347,762
63: 1,328,972
64: 1,335,065
67: 1,340,625
71: 1,332,522
1,350,795
76: 1,349,520
77: 1,335,618
1,347,709
80: 1,345,526
84: 1,343,389
87: 1,350,168
88: 1,342,496
1,354,281
1,344,282
95: 1,343,115
1,344,137
97: 1,336,344
100: 1,355,688
101: 1,349,556
105: 1,352,853
1,360,099
108: 1,328,289
1,332,952
117: 1,353,539
1,356,241
119: 1,345,614
1,355,158
1,355,485
120: 1,335,143
1,341,709
1,348,859
123: 1,348,800
125: 1,348,672

Digitized by Google

Classification of patents—Continued.

121— 125: 1,350,625
1,356,943
128: 1,363,554
129: 1,360,965
133: 1,351,314
134: 1,330,392
1,343,382
1,353,037
1,353,296
1,354,979
1,359,988
1,361,004
1,361,738
135: 1,335,589
136: 1,337,024
137: 1,331,013
1,351,168
1,361,737
138: 1,338,732
146: 1,358,403
147: 1,345,686
150: 1,336,711
1,349,787
160: 1,335,872
163: 1,340,405
1,360,942
164: 1,347,444
1,351,695
1,351,702
1,355,208
170: 1,345,232
181: 1,339,629
1,339,630
1,348,256
1,360,043
184: 1,363,872
185: 1,332,582
1,354,966
186: 1,360,784
187: 1,336,451
198: 1,343,105
1,358,569
194: 1,352,022
122— 4: 1,335,528
1,356,138
6.5: 1,343,314
6.6: 1,354,032
6.7: 1,338,700
7: 1,332,284
14: 1,333,614
18: 1,333,319
1,338,760
20: 1,351,606
28: 1,335,774
32: 1,328,608
33: 1,361,212
36: 1,343,937
37: 1,338,055
48: 1,349,571
58: 1,346,769
1,353,640
1,363,944
61: 1,363,734
65: 1,328,303
1,335,399
68: 1,337,486
1,337,720
1,356,307
94: 1,341,475
99: 1,341,474
109.5: 1,344,045
112: 1,363,773
115: 1,342,342
1,352,802
122: 1,360,980
126: 1,355,686
160: 1,355,125
161: 1,350,565
1,356,098
167: 1,335,560
1,350,350
183: 1,333,229
188: 1,347,481
195: 1,342,672
209: 1,327,188
216: 1,358,286
218: 1,351,899
225: 1,355,049
228: 1,334,676
232: 1,350,990
236: 1,348,563
237: 1,337,632
250: 1,328,856
1,336,714
268: 1,351,500
279: 1,345,231
288: 1,356,162
291: 1,337,831
297: 1,348,179
302: 1,363,915
303: 1,349,869
316: 1,350,554
352: R. 14,859

122— 352: 1,360,030
356: 1,338,447
360: 1,337,590
365: 1,350,200
371: 1,348,235
381: 1,351,586
389: 1,331,452
1,363,389
391: 1,337,557
1,340,144
392: 1,337,528
1,343,654
1,348,542
396: 1,330,085
1,357,717
416: 1,337,653
421: 1,341,213
423: 1,356,729
424: 1,343,144
426: 1,331,845
1,346,334
428: 1,352,023
1,361,931
433: 1,348,196
439: 1,335,439
444: 1,343,824
1,345,369
1,351,324
451.1: 1,333,669
459: 1,348,895
462: 1,328,364
1,340,074
1,344,211
1,356,354
1,360,096
1,363,320
463: 1,335,974
466: 1,353,200
467: 1,355,687
469: 1,331,841
1,351,154
472: 1,359,916
473: 1,328,365
476: 1,349,554
478: 1,332,969
1,347,086
1,350,597
479: 1,351,465
480: 1,332,943
1,349,068
1,363,714
485: 1,327,032
1,357,493
494: 1,349,617
504: 1,356,057

123— 1: 1,332,803
1,343,938
1,362,080
2: 1,334,963
1,353,099
1,353,100
3: 1,327,495
6: 1,351,544
7: 1,361,648
8: 1,330,257
1,358,450
11: 1,328,410
1,329,625
1,348,675
1,349,512
1,353,374
12: 1,343,635
1,344,331
1,349,884
13: 1,332,862
14: 1,327,575
1,338,207
1,349,111
1,362,400
15: 1,333,399
1,337,218
1,338,039
1,345,773
16: 1,338,304
1,360,231
1,354,189
17: 1,335,134
1,349,353
18: 1,346,805
1,352,127
1,363,423
25: 1,327,551
1,332,382
1,332,407
1,334,952
1,336,592
1,338,511
1,338,993
1,343,858
1,344,793
1,349,515
1,349,952
1,350,079

123— 25: 1,350,413
1,352,365
1,352,366
1,352,649
1,353,893
1,356,437
1,357,039
1,358,946
1,359,761
1,360,742
1,360,743
27: 1,330,676
29: 1,347,820
30: 1,341,478
1,341,911
1,351,480
1,354,455
31: 1,328,142
32: 1,327,744
1,328,499
1,333,612
1,334,376
1,337,771
1,338,289
1,347,817
1,354,786
1,361,044
1,361,711
1,362,210
33: 1,329,343
1,329,797
1,344,407
1,345,723
1,346,204
1,346,205
1,346,267
1,356,518
1,359,498
1,362,743
1,362,815
1,363,470
35: 1,355,068
41: 1,327,095
1,331,399
1,333,416
1,334,988
1,336,371
1,336,372
1,341,368
1,343,980
1,347,300
1,348,955
1,352,717
1,352,758
1,354,748
1,356,820
1,359,500
1,361,681
42: 1,341,367
1,349,275
43: 1,328,261
1,344,158
1,345,808
1,349,054
1,353,205
44: 1,328,484
1,330,896
1,331,749
1,333,615
1,338,256
1,342,922
1,347,731
1,350,260
1,360,637
1,362,541
45: 1,335,952
1,339,760
1,342,146
1,355,744
47: 1,333,635
1,339,406
1,343,142
1,347,856
1,352,187
1,355,348
1,363,547
48: 1,357,911
1,360,366
1,361,110
50: 1,329,514
1,334,619
1,338,056
1,345,345
1,354,571
1,355,428
1,356,865
1,360,690
51: 1 329,974
1,339,187
1,351,783
1,360,316
1,361,390
52: 1,327,311

123— 52: 1,330,649
1,332,278
1,332,350
1,336,704
1,338,527
1,343,668
1,347,598
1,350,607
1,360,098
1,360,828
1,361,477
53: 1,341,938
1,353,481
1,358,954
1,361,619
1,340,651
1,347,094
55: 1,332,964
1,335,990
1,338,311
1,339,423
1,344,279
1,348,979
1,352,486
1,353,213
1,354,535
1,355,451
1,360,958
56: 1,333,611
1,336,232
1,339,447
1,363,548
57: 1,345,530
1,355,452
1,356,576
1,357,512
1,361,978
58: 1,329,933
1,335,310
1,338,185
1,345,940
1,352,985
1,355,484
59: 1,327,172
1,327,345
1,329,364
1,330,408
1,330,436
1,330,874
1,331,711
1,332,211
1,332,393
1,334,010
1,335,534
1,340,229
1,340,481
1,342,438
1,344,228
1,344,263
1,345,094
1,345,266
1,348,393
1,350,479
1,352,945
1,354,334
1,354,772
1,357,135
1,358,513
1,359,939
1,360,061
1,360,689
1,361,236
1,361,397
1,361,680
1,362,721
1,363,500
60: 1,355,615
61: 1,329,947
1,354,931
62: 1,335,320
1,335,322
63: 1,333,693
65: 1,348,141
1,330,496
1,343,161
1,343,863
1,345,065
1,347,055
66: 1,331,695
1,334,380
1,335,323
1,335,324
1,335,325
1,335,326
1,335,327
1,335,329
1,340,223
1,342,368
1,345,169
69: 1,341,255
1,342,483
1,354,945
70: 1,342,498

123— 71: 1,335,328
1,342,105
1,344,041
1,356,757
1,360,895
1,361,332
73: 1,342,449
1,342,558
1,346,066
1,346,069
1,350,135
1,353,465
1,354,667
1,360,217
1,360,383
74: 1,327,462
1,337,077
1,339,870
1,349,630
75: 1,332,265
1,334,684
1,335,515
1,336,398
1,339,512
1,343,678
1,346,617
1,348,936
1,350,800
1,354,101
1,356,730
1,358,558
1,359,890
1,360,074
1,360,075
1,361,072
76: 1,328,265
1,346,001
77: 1,356,200
79: 1,333,501
1,359,309
79: 1,331,188
1,356,792
1,357,152
1,357,912
80: 1,327,202
1,346,086
1,347,019
1,354,675
1,356,506
81: 1,339,110
1,363,363
85: 1,331,632
87: 1,355,441
90: 1,330,013
1,331,256
1,332,294
1,332,446
1,333,160
1,334,268
1,335,321
1,336,237
1,336,447
1,339,421
1,339,839
1,340,211
1,340,717
1,341,134
1,343,325
1,345,943
1,346,401
1,347,488
1,347,768
1,349,089
1,349,090
1,352,897
1,353,993
1,356,914
1,358,186
1,358,187
1,358,429
1,359,669
1,360,536
1,362,500
1,362,709
1,363,060
1,363,398
91: 1,331,787
1,361,114
92: 1,361,109
96: 1,340,362
97: 1,349,146
98: 1,340,993
1,341,762
1,342,656
1,345,037
1,347,192
1,351,532
1,363,404
99: 1,362,468
100: 1,330,024
1,332,408
1,346,051
103: 1,333,050

123— 104: 1,327,927
106: 1,329,606
1,333,847
1,346,734
108: 1,339,496
1,339,497
1,343,806
1,361,180
113: 1,331,507
1,339,517
1,348,833
116: 1,345,233
117: 1,328,453
1,330,619
1,338,336
1,341,136
1,342,976
1,343,943
1,360,758
119: 1,330,969
1,333,856
1,339,035
1,339,465
1,341,172
1,342,869
1,345,927
1,346,123
1,346,124
1,347,297
1,351,718
1,353,454
1,354,274
1,357,355
1,360,041
1,361,575
1,363,123
1,363,136
1,363,694
120: 1,359,289
122: 1,327,384
1,330,580
1,331,856
1,333,113
1,335,843
1,340,580
1,342,159
1,342,950
1,344,242
1,344,615
1,344,698
1,345,507
1,346,745
1,347,435
1,347,807
1,348,066
1,350,421
1,350,431
1,350,864
1,350,871
1,351,477
1,352,709
1,354,484
1,356,482
1,358,686
1,359,168
1,362,353
1,362,796
123: 1,340,956
124: 1,329,753
1,332,586
1,335,099
1,338,398
1,338,915
1,340,734
1,344,001
1,345,432
1,348,831
1,350,976
1,360,547
125: 1,359,314
127: 1,334,491
1,337,338
1,346,477
1,361,438
129: 1,340,444
131: 1,328,844
1,333,541
1,338,104
1,341,476
133: 1,341,141
1,361,503
1,362,211
139: 1,333,566
1,338,316
1,348,646
1,348,845
140: 1,337,770
1,341,640
1,352,050
1,352,637
1,362,742
141: 1,335,665
1,340,062

Digitized by Google

Classification of patents—Continued.

123— 141: 1,353,248
143: 1,339,014
1,345,999
1,349,946
1,350,815
1,354,686
1,356,247
1,359,514
145: 1,330,335
1,332,636
1,356,582
1,360,985
1,361,116
145.5: 1,332,136
1,333,003
1,336,269
146.5: 1,344,369
1,344,464
1,344,953
1,345,243
1,353,059
1,357,158
1,359,291
1,360,096
1,361,288
148: 1,327,790
1,328,374
1,329,152
1,329,508
1,329,654
1,334,095
1,335,933
1,341,362
1,342,553
1,344,463
1,344,528
1,345,893
1,346,821
1,347,511
1,351,396
1,352,431
1,352,432
1,352,433
1,352,434
1,353,045
1,359,688
1,360,273
1,360,274
1,361,259
1,361,313
1,361,314
1,362,386
149: 1,327,261
1,327,502
1,328,149
1,328,492
1,330,021
1,330,037
1,330,039
1,330,052
1,332,052
1,333,548
1,337,322
1,337,331
1,338,758
1,338,990
1,339,055
1,341,282
1,342,199
1,342,607
1,344,723
1,345,331
1,349,278
1,349,299
1,354,502
1,359,285
1,360,063
1,361,088
1,361,436
1,363,742
153: 1,353,597
154: 1,339,429
1,355,858
157: 1,346,003
165: 1,328,990
166: 1,327,284
1,327,344
169: R. 14,847
R. 14,862
R. 14,949
R. 14,957
1,327,057
1,327,382
1,327,482
1,328,051
1,328,147
1,328,463
1,329,013
1,329,320
1,329,547
1,331,029
1,331,091
1,331,282

123— 169: 1,331,387
1,332,064
1,332,396
1,332,691
1,332,704
1,332,904
1,333,037
1,333,400
1,333,401
1,333,731
1,333,897
1,334,135
1,334,212
1,334,377
1,334,627
1,334,698
1,335,762
1,335,793
1,335,797
1,336,221
1,336,914
1,337,046
1,337,169
1,337,216
1,337,282
1,337,679
1,337,959
1,338,625
1,338,674
1,339,463
1,340,116
1,340,232
1,340,526
1,340,674
1,340,878
1,340,899
1,341,058
1,341,221
1,341,614
1,341,747
1,342,421
1,342,431
1,343,052
1,343,348
1,343,626
1,343,743
1,344,172
1,344,530
1,344,721
1,344,892
1,344,954
1,344,956
1,345,440
1,345,765
1,346,759
1,347,367
1,347,437
1,347,662
1,347,874
1,348,886
1,348,913
1,349,158
1,349,454
1,350,319
1,350,470
1,350,757
1,352,089
1,352,148
1,352,149
1,352,554
1,352,592
1,352,775
1,353,593
1,353,785
1,354,126
1,354,361
1,354,617
1,354,924
1,355,272
1,355,274
1,355,310
1,355,427
1,355,628
1,356,129
1,356,304
1,356,349
1,356,782
1,356,954
1,357,061
1,357,768
1,357,833
1,357,975
1,358,116
1,358,202
1,358,828
1,358,882
1,359,140
1,359,358
1,359,437
1,359,591
1,359,642
1,359,767
1,359,923

123— 169: 1,359,996
1,360,294
1,360,392
1,360,561
1,360,814
1,360,946
1,360,956
1,361,325
1,361,327
1,361,328
1,361,347
1,361,462
1,361,580
1,361,688
1,362,300
1,362,302
1,362,504
1,362,773
1,363,212
1,363,380
1,363,623
1,363,842
1,363,843
1,363,904
1,363,931
170: R. 14,838
1,329,587
1,335,562
1,338,722
1,338,908
1,347,043
1,353,418
1,356,066
171: 1,330,207
1,331,177
1,331,649
1,335,989
1,336,457
1,341,444
1,345,011
1,346,634
1,346,735
1,352,309
1,359,166
1,359,727
1,360,909
1,362,293
173: R. 14,869
1,330,409
1,331,420
1,331,911
1,334,536
1,340,647
1,342,033
1,345,084
1,348,451
1,349,459
1,354,335
1,359,334
1,359,598
174: 1,328,815
1,328,875
1,329,419
1,330,700
1,330,934
1,335,391
1,335,539
1,336,613
1,337,555
1,337,576
1,338,750
1,341,144
1,343,485
1,343,494
1,345,023
1,346,331
1,352,560
1,353,263
1,355,069
1,355,000
1,357,981
1,359,198
1,359,871
1,360,178
175: 1,336,091
1,340,389
1,341,915
1,349,638
1,350,122
1,353,678
1,355,212
1,359,389
1,359,694
176: 1,334,866
1,346,041
1,346,407
1,349,516
177: 1,329,521
1,332,865
1,343,111
1,345,535
1,351,050
1,362,899

123— 178: 1,327,148
1,327,381
1,332,332
1,354,740
1,361,033
179: 1,334,446
1,354,985
1,355,630
180: 1,327,430
1,328,089
1,329,345
1,330,092
1,331,853
1,336,144
1,338,740
1,339,080
1,340,087
1,343,555
1,344,805
1,344,815
1,345,516
1,345,822
1,363,093
1,363,637
182: 1,343,501
183: 1,356,648
184: 1,334,168
1,349,207
1,353,990
1,356,778
185: 1,327,109
1,328,127
1,330,530
1,331,798
1,333,186
1,333,817
1,333,998
1,338,668
1,340,124
1,344,521
1,348,931
1,348,989
1,352,353
1,356,856
1,356,876
1,358,697
1,359,829
1,360,190
1,360,306
1,360,363
1,361,787
186: 1,349,944
187.5: 1,327,687
1,329,354
1,329,464
1,332,894
1,332,944
1,337,772
1,339,883
1,339,884
1,340,281
1,342,205
1,343,547
1,350,344
1,353,144
1,353,584
1,355,837
1,356,967
1,358,237
1,360,108
188: 1,329,809
1,330,044
1,330,045
1,331,826
1,332,347
1,338,759
1,345,548
1,347,542
1,354,019
1,358,514
189: 1,332,316
190: 1,347,978
1,349,757
1,353,289
1,357,600
1,360,107
1,362,312
1,363,894
191: 1,328,544
193: 1,329,238
1,332,888
1,338,342
1,341,227
1,342,939
1,347,475
1,347,476
1,358,694
195: 1,329,878
1,338,721
1,341,152
1,342,977
1,345,048
1,351,763

123— 195: 1,357,538
1,357,741
1,360,110
196: 1,331,765
1,344,982
1,352,954
1,353,894
1,359,453
1,362,006
197: 1,335,947
198: 1,334,951
1,338,017
1,344,756
1,347,035
1,350,741
1,351,716
1,351,980
1,358,459
1,363,119
124— 1: 1,335,342
1,337,934
1,342,357
1,344,378
1,346,754
1,348,597
1,358,674
2: 1,345,561
3: 1,353,063
4: 1,332,735
6: 1,362,467
10: 1,327,064
11: 1,358,959
12: 1,329,734
1,330,530
1,330,511
1,333,945
1,337,967
1,339,949
1,340,190
1,346,938
1,347,433
1,362,171
13: 1,328,929
1,353,696
1,356,664
1,358,125
1,360,410
14: 1,342,700
15: 1,327,998
1,328,275
1,328,344
1,334,975
1,339,846
1,341,814
1,342,022
1,348,442
1,348,540
1,363,677
1,364,010
15.5: 1,347,659
125— 1: 1,347,365
2: 1,336,942
6: 1,329,089
7: 1,359,615
8: 1,333,597
11: 1,333,445
1,339,452
1,350,044
1,350,531
1,357,814
1,361,794
12: 1,349,955
13: 1,327,923
1,336,563
14: 1,352,169
1,354,566
15: 1,352,773
26: 1,332,038
1,355,035
30: 1,342,047
31: 1,334,284
33: 1,342,984
37: 1,330,656
1,348,323
40: 1,336,630
42: 1,340,589
45: 1,342,422
126— 1: 1,330,187
1,337,792
1,344,061
4: 1,345,400
1,349,096
1,349,732
5: 1,354,055
6: 1,334,827
9: 1,327,115
1,335,473
1,348,427
14: 1,336,999
15: 1,339,268
1,344,062
17: 1,337,005
1,340,986
1,349,052

126— 18: 1,327,203
20: 1,343,122
1,344,326
1,356,415
1,357,100
22: 1,359,096
24: 1,343,841
29: 1,333,335
1,350,233
1,357,697
36: 1,330,989
1,337,112
1,338,701
1,344,755
1,347,601
1,348,078
1,348,709
1,350,723
1,352,539
1,355,338
1,355,848
1,355,991
1,359,864
1,363,905
37: 1,343,539
1,353,121
1,353,743
38: 1,330,862
1,340,421
1,354,393
39: 1,329,408
1,330,706
1,333,507
1,335,760
1,336,552
1,338,870
1,339,478
1,340,615
1,342,991
1,344,136
1,345,295
1,347,586
1,358,217
1,358,966
41: 1,358,365
1,361,183
1,363,527
42: 1,329,490
1,344,253
1,352,287
43: 1,339,059
1,351,682
44: 1,330,017
1,341,046
1,348,759
45: 1,340,367
1,345,775
1,361,491
52: 1,362,538
53: 1,333,110
1,337,413
1,354,029
1,355,220
1,356,089
58: 1,333,291
1,341,623
1,355,244
1,360,181
59: 1,352,290
59.5: 1,342,072
1,357,314
60: 1,328,743
62: 1,358,570
65: 1,342,163
67: 1,337,708
1,355,556
1,360,314
1,360,934
68: 1,361,701
70: 1,328,246
1,345,887
73: 1,343,645
1,353,826
77: 1,327,988
1,338,855
1,339,039
1,341,580
80: 1,346,883
84: 1,352,676
85: R. 14,948
1,342,121
1,345,807
1,346,456
1,348,972
1,351,525
86: R. 14,903
1,343,484
1,358,155
1,362,214
87: 1,335,216
88: 1,330,228
89: 1,354,479
90: 1,328,012

Digitized by Google

126— 90: 1,335,091
1,342,921
1,343,578
1,349,461
1,359,888
91: 1,339,944
1,343,634
1,349,862
93: 1,342,570
1,355,249
95: 1,336,753
96: 1,330,691
1,336,412
1,346,704
1,349,603
1,363,342
97: 1,349,484
99: 1,338,675
1,340,134
1,340,340
1,341,723
1,342,258
1,343,752
1,346,801
1,353,556
1,354,746
1,358,370
1,358,861
1,359,550
1,361,371
1,362,259
1,362,473
100: 1,336,058
101: 1,363,530
1,363,555
104: 1,334,741
1,361,351
1,362,579
106: 1,350,147
109: 1,352,804
1,363,575
113: 1,362,932
114: 1,350,257
1,351,633
1,358,550
116: 1,332,459
1,333,870
1,334,005
1,334,039
1,346,587
1,351,282
1,357,598
1,359,234
1,362,789
121: 1,350,495
1,361,389
126: 1,336,700
1,360,619
132: 1,343,745
1,352,371
137: 1,352,048
146: 1,335,567
1,341,788
147: 1,337,604
150: 1,345,888
152: 1,333,812
154: 1,359,111
163: 1,329,629
165: 1,336,766
168: 1,349,644
169: 1,358,516
170: 1,332,353
173: 1,328,686
1,346,379
175: 1,337,214
176: 1,327,270
177: 1,361,925
179: 1,338,070
190: 1,350,768
1,355,868
194: 1,335,044
200: 1,348,838
1,349,562
202: 1,332,474
1,357,432
206: 1,358,495
214: 1,330,643
1,337,774
1,339,215
1,340,666
1,355,226
1,355,933
215: 1,326,904
1,337,524
1,346,445
1,350,700
1,353,265
221: 1,356,735
225: 1,359,926
236: 1,354,065
239: 1,356,960
245: 1,362,427
247: 1,334,280

126— 248: 1,342,359
1,351,004
1,351,005
1,357,329
249: 1,335,427
256: 1,327,508
1,357,426
258: 1,335,591
1,333,525
260: 1,328,161
261: 1,343,670
1,354,044
1,354,409
1,363,966
265: 1,360,984
268: 1,331,241
271: 1,338,644
1,345,758
271.1: 1,359,967
271.2: 1,341,672
272: 1,328,202
1,328,239
1,328,722
1,330,055
1,330,456
1,331,066
1,350,104
1,352,214
1,356,055
1,363,103
275: 1,328,152
1,342,455
1,345,824
1,346,666
1,351,921
1,356,102
276: 1,328,071
1,335,941
283: 1,350,913
284: 1,337,148
286: 1,348,939
287: 1,339,571
287.5: 1,352,255
288: 1,361,782
292: 1,328,565
1,356,383
298: 1,347,935
301: 1,338,378
304: 1,346,526
307: 1,327,377
309: 1,343,706
1,356,022
310: 1,333,195
314: 1,333,486
316: 1,355,223
317: 1,335,730
1,344,219
318: 1,333,625
1,359,127
319: 1,340,090
1,347,139
333: 1,339,491
1,358,231
337: 1,351,387
1,351,415
1,352,352
338: 1,335,844
1,350,330
1,351,394
339: 1,341,829
1,343,849
341: 1,331,525
1,337,399
1,350,367
1,362,139
343.5: 1,339,719
1,349,853
1,350,502
1,351,542
1,355,931
1,360,238
346: 1,335,587
1,345,601
350: 1,333,052
1,333,266
1,340,852
1,341,109
1,355,245
1,360,009
351: 1,352,001
359: 1,328,682
1,341,048
360: 1,328,630
1,329,063
1,354,792
363: 1,346,876
367: 1,329,035
1,330,717
1,334,978
1,351,194
1,359,159
368: 1,337,800
369: 1,332,016

126— 369: 1,349,784
371: 1,343,644
127— 2: 1,327,222
1,358,162
1,359,094
1,362,064
8: 1,343,737
9: 1,330,746
1,330,747
1,331,389
1,333,571
1,339,115
1,349,114
1,350,072
1,350,247
1,350,248
1,352,310
1,357,525
1,358,165
1,362,151
1,362,590
1,363,328
10: 1,335,162
1,348,731
1,355,415
1,358,898
1,362,875
14: 1,346,624
1,362,087
16: 1,331,373
17: 1,352,084
1,362,078
18: 1,348,409
1,352,648
1,356,062
1,358,132
19: 1,353,571
128— 2: 1,332,622
6: 1,345,406
9: 1,346,200
10: 1,352,789
15: 1,344,020
16: 1,339,711
17: 1,358,473
19: 1,331,542
22: 1,334,810
25: 1,354,804
27: 1,354,212
29: 1,337,225
1,343,486
1,358,893
31: 1,353,630
41: 1,330,270
44: 1,346,724
48: 1,339,179
49: 1,327,466
51: 1,349,495
55: 1,342,280
57: 1,343,432
1,345,096
58: 1,354,248
60: 1,354,805
62: 1,361,034
63: 1,345,026
1,353,809
69: 1,342,507
71: 1,348,896
72: 1,338,735
73: 1,337,312
1,339,038
74: 1,329,611
1,337,145
1,351,482
75: 1,347,013
1,356,365
76: 1,334,200
1,338,090
1,356,112
79: 1,346,463
1,362,398
80: 1,332,047
1,336,001
1,340,700
1,350,944
1,354,427
1,356,327
85: 1,334,696
1,347,396
1,363,114
87: 1,328,598
88: 1,336,695
92: 1,346,940
94: 1,340,630
96: 1,342,014
100: 1,336,513
1,345,139
1,353,867
105: 1,328,044
1,337,994
1,341,333
1,345,148
1,357,405
107: 1,338,991

128— 107: 1,360,476
112: 1,337,790
1,339,946
120: 1,364,032
123: 1,340,903
132: 1,351,017
133: 1,345,783
136: 1,354,052
137: 1,327,407
138: 1,328,176
140: 1,337,026
141: 1,331,601
1,344,349
1,348,094
1,348,819
1,352,818
1,362,766
145: 1,331,297
146: 1,359,073
147: 1,328,057
152: 1,344,035
1,355,276
153: 1,358,272
156: 1,352,774
159: 1,339,070
161: 1,347,864
162: 1,350,863
164: 1,339,865
166: 1,351,248
167: 1,327,930
169: 1,332,550
1,359,346
1,363,075
172: 1,347,357
173: 1,329,833
1,329,834
174: 1,354,741
178: 1,340,433
189: 1,359,373
191: 1,328,058
1,353,085
192: 1,351,012
196: 1,350,312
198: 1,340,662
203: 1,338,905
1,340,448
1,357,001
1,361,200
1,362,201
204: 1,363,010
214: 1,346,127
215: 1,336,061
216: 1,336,730
217: 1,347,622
218: 1,328,203
1,331,271
1,331,805
1,338,986
1,343,787
1,363,128
219: 1,348,796
225: 1,356,519
226: 1,329,718
231: 1,348,211
1,349,474
1,352,306
234: 1,348,412
237: 1,343,085
239: 1,327,167
1,338,464
1,338,710
240: 1,355,727
241: 1,327,705
1,333,961
249: 1,331,374
1,336,109
1,350,719
1,362,682
252: 1,336,366
1,343,113
1,360,893
256: 1,339,610
258: 1,342,252
1,345,906
260: 1,348,728
1,355,846
263: 1,350,981
264: 1,354,014
265: 1,352,032
269: 1,327,499
1,332,859
1,345,280
270: 1,334,237
272: 1,333,935
1,362,873
278: 1,335,072
1,349,766
286: 1,329,195
1,339,602
287: 1,351,982
1,353,750
289: 1,331,042
1,342,588

128— 289: 1,356,037
1,362,908
290: R. 14,830
R. 14,924
1,332,507
1,341,875
1,353,196
300: 1,355,679
304: 1,359,870
305: 1,328,459
1,336,376
309: 1,339,691
1,339,092
1,347,651
1,361,649
1,362,701
317: 1,358,865
320: 1,359,908
321: 1,340,501
1,359,164
322: 1,356,048
324: 1,353,430
327: 1,338,578
1,344,959
330: 1,348,040
1,361,338
334: 1,344,227
340: R. 14,023
1,327,577
345: 1,328,024
1,331,737
1,363,534
347: 1,333,745
1,348,194
352: 1,332,118
353: 1,337,841
129— 1: 1,327,024
1,328,971
1,329,910
1,330,894
1,331,226
1,332,159
1,336,438
1,342,766
1,348,781
1,354,819
1,358,086
1,359,059
1,362,005
4: 1,337,213
1,358,853
7: 1,336,998
1,346,179
8: 1,340,157
1,344,934
1,354,837
9: 1,340,757
10: 1,344,971
11: 1,339,768
12: 1,329,379
1,331,516
1,331,588
1,346,180
1,346,328
1,349,577
13: 1,333,124
1,341,062
1,343,103
1,354,905
15: 1,340,140
1,349,272
1,352,101
1,353,530
1,359,867
16: 1,327,848
1,327,936
1,328,604
1,328,956
1,329,536
1,330,509
1,330,510
1,333,350
1,340,034
1,340,035
1,340,140
1,340,251
1,347,658
1,348,085
1,348,906
1,350,665
1,352,506
1,352,507
1,354,510
1,354,616
1,356,851
1,357,653
1,360,548
1,360,574
1,362,310
1,362,960
1,362,961
16.1: 1,334,057
1,340,384

129— 16.1: 1,351,692
1,358,380
1,360,617
1,361,494
16.5: 1,336,120
1,338,789
16.7: 1,336,115
1,351,127
1,360,836
16.8: 1,329,569
1,336,584
17: 1,362,951
18: 1,331,912
1,354,894
19: 1,330,875
1,333,231
1,347,342
1,355,629
20: 1,329,030
1,332,656
1,345,365
1,345,724
1,346,298
1,352,728
1,353,846
1,356,693
23: 1,328,561
1,334,695
1,336,495
1,358,265
24: 1,342,833
1,357,766
25: 1,359,606
30: 1,355,257
35: 1,349,935
1,360,141
36: 1,352,398
38: 1,327,186
1,334,020
1,339,249
1,360,264
39: 1,333,521
1,341,456
40: 1,327,992
1,356,445
41: 1,334,406
1,337,124
1,338,658
1,342,637
1,350,422
1,363,385
165: 1,332,954
130— 1: 1,338,142
1,342,574
1,345,588
1,360,802
4: 1,340,419
5: 1,329,752
1,339,737
1,344,563
1,346,931
1,355,645
1,361,463
7: 1,362,679
9: 1,327,402
10: 1,361,444
12: 1,344,921
13: 1,327,297
1,360,045
15: 1,327,700
1,331,614
1,335,464
1,336,958
1,341,791
1,341,798
1,349,306
1,354,750
1,355,383
1,360,062
1,360,125
1,362,725
16: 1,328,872
1,341,571
1,347,114
17: 1,333,127
1,333,944
1,347,314
1,347,608
1,349,034
1,350,973
1,355,270
1,356,334
1,356,777
1,360,534
18: 1,328,819
1,331,608
1,352,052
1,353,069
1,353,856
1,356,043
1,356,049
19: 1,327,325
1,334,761

Digitized by Google

Classification of patents—Continued.

130— 19: 1,339,560
1,341,792
1,346,630
1,348,668
1,363,425
20: 1,332,494
22: 1,344,599
1,357,275
23: 1,327,193
1,350,085
24: 1,333,278
27: 1,333,757
1,334,910
1,341,230
1,342,806
1,352,821
30: 1,328,295
1,331,278
1,334,708
1,335,669
1,340,607
1,344,332
1,348,139
1,350,452
1,358,337
1,359,450
1,360,249
1,361,051
31: 1,333,187
1,357,137
1,359,148
1,360,765
32: 1,333,493
1,335,675
1,336,059
1,336,297
1,337,257
1,337,924
1,338,276
1,338,729
1,339,077
1,340,079
1,341,454
1,342,571
1,343,586
1,345,858
1,346,438
1,346,835
1,349,304
1,352,780
1,353,075
1,355,999
1,356,529
1,356,852
1,357,902
1,358,061
1,360,849
1,360,850
1,363,818
33: 1,329,703
131— 5: 1,363,895
6: 1,327,692
1,331,331
1,338,089
1,339,373
1,339,374
1,339,375
9: 1,343,125
10: 1,335,698
1,342,868
1,347,204
1,355,666
1,359,803
11: 1,346,533
1,355,658
12: 1,329,396
1,335,312
1,336,233
1,336,393
1,341,418
1,343,253
1,349,276
1,349,293
1,351,683
1,356,388
1,356,736
1,359,986
13: 1,347,304
20: 1,345,677
1,345,736
1,349,248
21: 1,362,893
22: 1,344,874
30: 1,329,143
33: 1,353,944
37: 1,348,057
38: 1,336,724
48: 1,350,816
51: 1,331,872
1,342,805
1,348,676
1,355,750
1,356,586

131— 51: 1,356,638
52: 1,327,139
1,338,529
1,349,147
1,363,989
55: 1,334,752
1,352,421
57: 1,328,768
1,347,403
1,347,404
59: 1,328,964
60: 1,328,733
1,328,734
1,328,735
1,348,497
61: 1,333,340
132— 1: 1,359,101
3: 1,330,675
1,339,932
1,340,379
1,340,948
1,341,158
1,342,224
1,347,360
1,354,143
1,356,273
1,362,780
12: 1,355,037
13: 1,332,170
1,346,125
17: 1,338,937
1,339,963
1,340,817
1,362,746
18: 1,330,350
1,334,329
1,335,313
1,338,087
1,338,748
1,345,040
1,346,920
1,347,830
1,352,978
1,353,781
1,356,931
1,363,033
19: 1,327,980
1,328,422
1,328,771
1,329,078
1,338,588
1,340,738
1,349,425
1,349,909
1,352,871
1,354,117
1,354,414
1,357,516
1,358,172
1,360,643
1,360,644
1,360,861
1,361,612
1,362,460
1,362,823
1,363,147
1,363,611
22: 1,330,802
1,333,907
1,337,039
1,337,377
1,341,980
1,342,822
1,343,239
1,347,707
1,353,079
1,353,350
1,354,336
1,357,271
1,357,333
1,358,100
1,358,139
1,360,494
1,360,614
1,362,824
1,362,827
1,364,057
23: 1,346,718
1,347,915
1,347,987
1,351,427
1,357,349
1,360,100
25: 1,341,356
1,341,858
1,347,267
1,350,945
1,352,672
1,357,546
1,361,204
30: 1,341,733
31: 1,329,437
1,355,038

132— 31: 1,359,343
32: 1,330,316
1,339,265
1,342,178
1,345,360
1,349,110
1,357,285
1,360,615
33: 1,348,025
1,354,053
1,357,679
1,358,565
34: 1,334,218
1,347,149
1,353,281
1,355,412
1,357,306
1,360,739
1,362,808
1,363,218
35: 1,328,120
1,356,637
1,359,570
1,361,092
1,362,830
36: 1,345,918
1,351,364
37: 1,362,601
139: 1,361,519
133— 1: 1,343,800
1,350,958
1,358,411
3: 1,327,357
1,346,457
4: 1,327,969
1,329,748
1,344,786
1,350,148
1,356,379
8: 1,347,179
1,362,803
10: 1,333,087
1,337,941
11: 1,349,527
1,349,786
12: 1,329,771
13: 1,338,683
1,342,673
1,346,823
14: 1,350,515
1,353,585
1,360,367
1,363,328
134— 3: 1,341,952
7: 1,346,846
8: 1,334,573
9: 1,354,009
11: 1,334,436
1,338,811
12: 1,333,321
13: 1,349,601
1,354,551
1,354,996
1,358,226
14: 1,347,508
15: 1,327,239
1,359,826
16: 1,356,267
17: 1,329,162
1,334,060
1,338,286
1,353,239
17.5: 1,343,150
1,363,438
20: 1,347,845
21: 1,354,575
22: 1,336,055
23: 1,334,356
24: R. 14,930
1,329,968
1,331,260
1,334,464
1,340,747
1,342,862
1,343,259
1,350,587
1,352,015
1,356,075
1,356,128
1,356,869
1,359,401
1,359,536
1,360,066
1,362,260
1,362,907
1,363,419
1,363,481
26: 1,337,749
1,326,917
1,327,332
1,340,873
1,341,103
1,344,338

134— 26: 1,349,909
1,353,220
1,355,103
1,357,688
1,358,304
1,360,655
27: 1,344,696
1,362,092
31: 1,328,138
33: 1,353,720
35: 1,342,638
1,358,151
37: 1,347,454
38: 1,334,722
39: 1,341,250
1,360,085
1,360,226
40: 1,330,022
1,358,269
45: 1,350,343
1,351,149
1,357,844
46: 1,348,904
1,355,131
1,356,047
1,359,228
50: 1,327,928
1,334,357
1,334,358
1,353,473
51: 1,328,282
1,338,921
1,339,724
1,340,855
1,344,861
1,347,311
1,355,099
1,355,102
1,356,913
1,362,241
52: 1,347,337
1,356,390
53: 1,333,057
1,335,757
1,358,870
54: 1,341,704
55: 1,342,497
1,358,996
56: 1,340,600
1,342,942
1,343,337
1,347,074
58: 1,333,819
1,339,219
1,341,307
1,343,441
1,343,446
1,343,447
1,343,468
1,343,469
1,347,191
1,348,129
1,348,843
1,350,694
1,360,737
1,361,856
1,361,857
59: 1,327,061
1,337,402
61: 1,344,060
66: 1,338,288
75: 1,349,334
76: 1,347,928
78: 1,356,387
79: 1,327,933
1,329,396
1,330,421
1,339,728
1,341,710
1,345,354
1,352,741
1,356,440
1,356,962
1,357,447
1,358,914
1,363,763
152: 1,356,836
160: 1,356,696
1,357,079
135— 1: 1,342,234
3: 1,335,332
4: 1,338,058
1,345,108
1,347,107
5: 1,333,497
1,342,452
7: 1,342,987
10: 1,339,527
12: 1,347,540
13: 1,344,245
15: 1,330,363
18: 1,340,375
20: 1,328,901

135— 20: 1,345,067
23 1,328,902
25: 1,349,281
1,353,234
1,356,263
1,356,264
1,356,265
26: 1,344,132
29: 1,328,175
31: 1,329,219
33: 1,342,451
34: 1,336,219
36: 1,336,218
44: 1,352,332
45: 1,331,633
46: 1,326,931
1,342,320
1,353,034
47: 1,336,638
1,339,162
1,339,257
49: 1,331,208
50: 1,349,639
51: 1,331,109
1,358,643
52: 1,329,775
1,332,642
1,342,506
53: 1,340,616
1,340,617
1,347,320
53.2: 1,347,958
1,348,110
54: 1,336,844
1,348,531
137— 5: 1,334,870
9: 1,328,348
1,349,808
13: 1,332,692
1,335,526
1,338,263
1,340,352
1,345,465
1,345,482
1,346,879
1,349,062
1,351,781
1,360,340
18: R. 15,017
20: 1,336,310
1,355,539
21: 1,327,693
1,328,857
1,329,169
1,335,445
1,338,846
1,339,083
1,342,516
1,343,072
1,348,404
1,357,595
1,358,355
35: 1,328,649
1,338,469
1,346,791
53: 1,328,653
1,331,115
1,331,795
1,332,886
1,339,244
1,340,719
1,340,832
1,342,667
1,342,985
1,344,300
1,344,894
1,346,921
1,349,253
1,351,259
1,352,288
1,352,439
1,355,068
1,356,853
1,356,854
1,357,837
1,357,838
1,358,692
1,363,263
1,363,606
58: 1,354,940
60: 1,344,976
68: 1,327,283
1,327,999
1,328,009
1,332,623
1,333,267
1,336,769
1,336,905
1,339,734
1,345,311
1,346,898
1,354,311
1,354,426

137— 68: 1,357,485
71: 1,328,726
1,342,491
1,348,384
1,355,731
72: 1,336,984
1,361,023
73: 1,354,359
75: 1,326,988
1,327,195
1,329,285
1,329,522
1,330,310
1,330,316
1,331,986
1,331,987
1,331,988
1,335,073
1,338,075
1,339,209
1,339,547
1,340,818
1,343,236
1,344,032
1,344,321
1,346,144
1,346,403
1,346,950
1,348,793
1,348,937
1,350,073
1,351,133
1,351,573
1,357,259
1,357,974
1,359,621
1,361,124
76: 1,329,700
1,335,117
1,336,211
1,340,061
1,349,193
1,349,245
1,354,925
77: 1,340,176
1,358,778
1,358,779
78: 1,333,986
1,345,924
1,356,135
1,358,741
1,361,905
79: 1,327,831
1,354,725
1,354,726
1,359,673
90: 1,352,740
1,357,701
1,361,206
91: 1,329,984
1,347,765
1,349,789
1,361,525
92: 1,332,288
1,348,226
1,359,035
93: 1,327,000
1,337,177
1,354,965
1,359,187
99: 1,327,846
1,340,167
1,350,489
101: 1,327,939
1,330,612
1,340,365
1,340,846
1,341,027
1,353,457
1,354,619
1,354,702
1,362,424
1,363,283
1,363,284
103: 1,327,691
1,333,413
1,334,079
1,334,821
1,337,064
1,338,541
1,339,074
1,343,550
1,347,607
1,352,617
1,355,617
1,355,746
1,362,954
104: 1,330,23[6]
1,332,99[7]
1,333,64[7]
1,338,17[6]
1,338,99[9]
1,339,75[5]

Digitized by Google

Classification of patents—Continued.

137— 104: 1,340,123
1,340,572
1,340,999
1,341,002
1,342,874
1,343,421
1,345,682
1,347,217
1,347,353
1,347,507
1,349,267
1,352,551
1,355,094
1,355,141
1,358,232
1,359,593
1,361,878
1,361,879
1,362,246
1,362,305
106: 1,355,988
111: 1,330,623
1,336,917
1,347,236
1,348,505
1,352,640
112: 1,329,559
1,332,746
1,333,142
113: 1,344,292
1,348,233
122: 1,337,045
1,340,439
1,341,101
1,342,052
1,347,216
1,363,480
137: 1,359,169
139: 1,328,590
1,328,946
1,329,017
1,331,751
1,333,681
1,333,776
1,334,497
1,338,849
1,339,114
1,341,319
1,342,641
1,343,983
1,344,633
1,346,590
1,347,612
1,349,208
1,353,290
1,353,317
1,355,544
1,356,130
1,356,238
1,358,266
1,361,581
1,361,888
1,362,331
140: 1,331,416
1,344,362
1,347,208
1,357,501
1,361,117
1,361,771
144: 1,342,966
1,357,840
152: 1,327,847
1,332,630
1,334,555
1,346,521
1,354,244
1,361,900
1,364,001
153: 1,348,956
1,349,945
1,358,812
158: 1,329,385
160: 1,330,486
1,331,275
1,332,663
1,333,533
1,333,676
1,336,354
1,338,520
1,340,158
1,341,976
1,342,340
1,342,464
1,344,367
1,344,582
1,345,418
1,351,122
1,351,698
1,351,985
1,353,478
1,353,863
1,354,834
1,356,189

137— 160: 1,357,992
1,360,311
1,360,517
1,361,662
1,363,345
138— 2: 1,334,286
1,334,287
8: 1,350,563
9: 1,327,470
1,327,670
1,342,140
1,344,037
1,344,711
1,344,919
1,346,625
1,353,244
10: 1,346,198
1,350,782
1,354,861
1,357,330
1,358,767
16: 1,343,024
17: 1,331,350
1,331,991
1,332,340
1,362,253
23: 1,332,050
1,334,281
1,334,282
1,334,283
1,334,285
1,334,288
1,334,289
1,334,290
1,334,291
1,342,238
139— 7: 1,327,676
1,328,794
1,357,967
1,362,134
9: 1,328,903
1,329,170
1,333,032
1,335,311
1,336,516
1,342,259
1,347,254
1,352,231
1,358,607
1,363,280
12: 1,331,603
1,331,927
1,332,165
1,332,166
1,335,163
13: 1,355,670
14: 1,341,244
1,341,245
16: 1,332,122
1,339,957
1,354,690
17: 1,334,074
18: 1,336,545
1,336,741
1,354,704
1,362,287
19: 1,357,127
20: 1,330,810
1,337,259
1,355,320
1,361,530
21: 1,332,102
1,354,072
22: 1,328,018
1,329,991
1,337,070
1,341,394
1,342,726
1,353,387
1,356,366
23: 1,329,251
1,358,039
1,362,625
27: 1,327,954
1,336,805
1,338,820
1,345,898
1,346,037
1,360,172
1,354,265
1,356,513
1,357,969
1,361,714
28: 1,339,999
1,351,099
29: 1,341,941
30: 1,329,157
1,364,038
32: 1,332,766
1,358,052
1,360,239
36: 1,344,413
1,355,770

139— 89: 1,351,233
1,352,610
1,353,963
40: 1,328,570
46: 1,327,709
1,333,808
1,334,683
1,337,389
1,340,330
1,340,568
1,344,553
1,344,734
1,350,630
1,353,076
1,354,362
1,358,229
1,360,185
1,360,342
1,363,233
47: 1,331,546
48: 1,327,964
1,337,055
1,339,295
1,342,946
1,344,177
1,352,297
1,356,738
1,363,914
49: 1,348,417
51: 1,331,626
1,336,089
1,339,841
1,341,026
1,342,555
1,357,066
1,358,214
52: 1,336,677
1,343,665
1,347,395
1,353,343
1,353,824
1,363,492
54: 1,342,272
1,342,710
1,352,529
1,360,487
56: 1,335,407
58: 1,335,510
1,355,319
59: 1,330,255
1,353,727
1,358,088
60: 1,345,900
1,357,968
61: 1,359,655
65: 1,341,929
66: 1,329,302
1,329,303
1,329,917
1,341,417
1,363,790
67: 1,347,399
1,353,962
71: 1,327,683
1,327,684
1,330,859
1,339,753
1,342,589
1,349,367
1,358,038
73: 1,359,251
1,359,252
1,359,253
75: 1,344,067
78: 1,335,876
1,351,533
79: 1,339,716
1,351,515
80: 1,333,060
1,333,164
82: 1,360,702
83: 1,358,474
85: R. 14,990
1,327,069
1,327,070
1,327,788
1,328,452
1,328,585
1,328,907
1,328,908
1,329,328
1,330,036
1,331,675
1,331,827
1,331,838
1,332,699
1,332,774
1,337,683
1,337,726
1,339,002
1,340,207
1,341,022
1,341,883

139— 85: 1,341,999
1,342,573
1,344,065
1,345,508
1,346,095
1,347,700
1,347,726
1,349,341
1,350,093
1,350,121
1,350,613
1,350,640
1,351,188
1,351,189
1,351,190
1,352,083
1,352,536
1,355,022
1,360,553
1,360,586
1,361,839
1,361,897
1,361,898
1,361,973
1,362,107
1,362,108
1,362,109
1,362,110
1,362,111
1,362,112
1,362,113
1,362,114
1,362,115
1,362,116
1,362,117
1,362,118
1,362,119
1,362,120
1,362,121
1,363,544
1,363,584
89: 1,333,397
1,339,572
1,347,170
90: 1,344,066
92: R. 14,829
1,350,113
1,352,558
1,355,909
1,355,956
1,360,638
1,362,670
93: 1,342,876
94: 1,339,313
1,339,507
1,342,896
1,344,795
1,346,498
1,353,947
1,357,346
1,363,377
140— 1: 1,342,712
2: 1,327,852
3: 1,352,913
5: 1,351,810
7: 1,336,343
1,359,667
12: 1,344,595
1,353,346
25: 1,355,200
26: 1,340,530
32: 1,336,908
71: 1,332,679
1,338,886
1,338,887
1,341,964
1,351,009
1,359,135
73: 1,333,994
75: 1,343,267
82: 1,355,587
83: 1,333,049
90: 1,352,904
92.1: 1,334,704
93: 1,331,560
1,332,539
1,343,920
1,348,346
1,351,448
1,357,883
102: 1,337,504
102.5: 1,337,616
104: 1,332,728
105: 1,327,467
1,345,445
111: 1,338,425
112: 1,351,350
115: 1,332,988
118: 1,341,895
119: 1,334,221
1,341,459
1,347,282
1,354,836

140— 121: 1,328,423
1,351,598
122: 1,340,029
123: 1,329,226
129: 1,357,752
143: 1,336,605
149: 1,336,159
1,352,484
141— 1: 1,352,867
3: 1,337,303
5: 1,359,769
6: 1,347,402
7: 1,328,360
1,331,328
1,332,033
1,332,034
1,336,568
1,338,949
1,340,768
1,342,485
1,342,739
1,347,366
1,349,144
1,350,807
1,360,265
1,362,822
9: 1,329,863
1,332,080
1,332,712
1,333,469
1,335,853
1,339,810
1,340,517
1,341,717
1,345,059
1,345,226
1,345,491
1,345,412
1,345,519
1,346,595
1,347,098
1,348,322
1,349,771
1,351,008
1,353,302
1,354,022
1,354,049
1,355,341
1,356,362
1,356,911
1,358,192
1,358,507
1,360,192
1,360,716
10: 1,338,107
11: 1,327,039
1,348,792
1,350,351
1,351,577
1,356,305
1,363,590
1,363,832
12: 1,342,624
142— 1: 1,350,840
5: 1,338,275
7: 1,345,859
1,363,238
15: 1,330,841
1,334,400
1,335,062
1,352,518
1,362,182
1,362,183
1,362,184
1,362,185
27: 1,338,819
38: 1,343,319
41: 1,334,305
47: 1,354,453
1,362,926
476: 1,342,606
143— 4: 1,356,110
5: 1,344,086
10: 1,344,860
32: 1,335,694
1,349,557
37: 1,344,203
40: 1,340,236
41: 1,329,634
43: 1,336,365
1,352,519
46: 1,332,558
1,346,189
1,350,394
47: 1,355,683
49: 1,332,477
1,362,576
51: 1,348,389
62: 1,338,977
1,349,772
63: 1,345,492
1,358,107
1,329,671

143— 68: 1,330,940
1,347,504
1,349,696
1,362,073
1,364,054
85: 1,356,019
86: 1,333,103
89: 1,332,713
1,332,714
1,339,747
110: 1,354,887
114: 1,327,555
122: 1,340,042
123: 1,363,748
132: 1,362,319
133: 1,328,982
1,334,633
1,334,941
1,351,499
135: 1,339,091
139: 1,317,030
140: 1,314,439
141: 1,363,171
145: 1,340,128
151: 1,337,016
158: 1,338,157
159: 1,329,708
1,351,820
1,362,545
161: 1,357,328
1,360,564
163: 1,327,054
1,331,279
167: 1,360,604
168: 1,336,799
1,346,269
1,355,288
144— 1: 1,327,390
1,346,031
2: 1,342,925
1,346,126
1,354,424
1,363,593
8: 1,355,749
9: 1,344,217
1,355,340
12: 1,328,492
25: 1,350,137
27: 1,361,295
29: 1,327,018
30: 1,356,031
1,357,029
32: 1,362,697
38: 1,358,148
42: 1,327,983
46: 1,348,590
1,352,443
50: 1,336,246
1,337,109
51: 1,327,627
61: 1,329,061
1,336,245
64: 1,324,155
1,336,244
1,336,247
1,348,181
69: 1,342,261
70: 1,336,394
73: 1,356,528
75: 1,340,987
91: 1,338,704
92: 1,331,949
114: 1,327,515
117: 1,331,992
1,337,350
1,352,581
119: 1,329,383
130: 1,340,709
133: 1,359,490
134: 1,335,547
136: 1,346,079
1,352,196
1,361,377
143: 1,337,428
144: 1,336,659
1,350,341
1,357,203
1,363,972
145: 1,333,912
1,337,695
145.5: 1,356,726
146: 1,357,637
1,361,091
1,362,583
162: 1,350,879
177: 1,339,172
186: 1,341,037
191: 1,329,060
193: 1,328,471
1,330,687
1,358,556
196: 1,348,126
198: 1,331,250

Digitized by Google

Classification of patents—Continued.

144— 198: 1,337,143
1,342,218
208: 1,335,798
204: 1,352,620
206: 1,333,734
1,337,286
1,338,993
216: 1,334,070
218: 1,361,305
219: 1,362,477
224: 1,348,753
1,353,616
225: 1,363,192
230: 1,346,215
235: 1,355,024
240: 1,328,430
1,359,766
241: 1,330,287
242: 1,339,051
1,355,491
243: 1,333,710
245: 1,342,144
255: 1,354,481
259: 1,355,649
267: 1,352,362
281: 1,327,815
288: 1,334,732
1,335,721
1,337,821
1,339,064
1,343,553
1,345,177
289: 1,347,023
1,348,148
1,352,501
291: 1,337,484
1,361,284
1,363,433
292: 1,342,891
1,342,892
1,359,599
295: 1,331,315
297: 1,347,360
1,350,084
1,353,553
299: 1,331,305
1,354,378
301: 1,346,236
303: 1,349,331
1,356,136
304: 1,328,862
1,352,647
306: 1,355,140
307: 1,357,970
309: 1,329,402
1,330,804
1,335,574
1,336,262
1,337,485
1,342,213
1,343,320
1,346,161
1,353,895
1,355,778
145— 1: 1,352,057
2: 1,330,213
1,348,920
1,354,384
3: 1,339,357
5: 1,331,280
1,348,923
1,354,651
15: 1,342,154
16: 1,361,433
20: 1,341,820
1,357,985
1,358,969
1,361,125
21: 1,343,627
24: 1,359,015
31: 1,335,659
1,352,512
32: 1,351,121
33: 1,339,139
34: 1,349,427
35: 1,340,742
46: 1,362,657
47: 1,327,155
50: 1,334,674
1,345,443
1,345,708
1,360,368
51: 1,333,436
1,333,437
1,343,101
52: 1,350,558
1,359,384
1,360,500
55: 1,332,919
1,334,686
61: 1,335,408
1,335,409
1,341,378

145— 61: 1,343,328
1,349,931
1,352,012
62: 1,356,673
66: 1,341,180
1,350,144
67: 1,362,582
68: 1,340,026
73: 1,356,776
1,363,954
108: 1,335,622
1,344,103
109: 1,347,432
113: 1,362,676
120: 1,352,825
121: 1,327,049
1,329,501
1,354,830
124: 1,330,385
128: 1,352,313
150: 1,356,682
146— 3: 1,330,442
1,331,351
1,335,465
1,342,689
1,342,690
1,342,691
1,342,692
1,344,731
1,351,983
1,357,472
1,359,766
5: 1,329,023
1,331,274
1,336,852
1,341,057
1,357,377
1,361,765
1,363,680
6: 1,327,083
1,328,503
1,329,755
1,334,162
1,334,449
1,339,364
1,339,367
1,342,207
1,351,216
1,353,328
1,356,997
1,357,004
1,362,807
7: 1,327,316
1,333,639
1,335,481
1,336,991
1,337,968
1,343,589
1,344,849
1,345,456
1,347,058
1,348,821
1,349,847
1,353,484
1,354,263
1,357,829
1,358,020
1,360,480
1,361,776
1,362,103
9: 1,343,439
1,349,739
1,352,537
1,356,199
1,359,410
1,361,670
1,362,075
11: 1,331,497
1,333,252
1,333,641
1,333,858
1,338,035
1,338,295
1,339,086
1,339,254
1,341,894
1,343,815
1,344,069
1,346,288
1,349,204
1,350,096
1,351,088
1,351,143
1,351,357
1,355,021
1,356,527
1,357,925
1,358,002
1,359,362
1,359,559
1,361,121
12: 1,328,301
1,330,302

146— 12: 1,331,958
1,334,696
1,336,726
1,341,452
1,342,383
1,342,875
1,344,118
1,345,118
1,345,376
1,353,802
1,355,483
1,356,067
1,357,241
14: 1,336,526
1,337,414
1,340,020
1,341,738
1,345,607
1,346,315
1,347,385
1,350,506
1,350,549
1,351,711
1,352,138
1,352,325
1,352,393
1,352,702
1,355,393
1,356,447
1,357,794
1,362,252
1,362,930
15: 1,332,260
1,346,340
1,347,091
1,349,616
1,349,885
1,353,520
19: 1,344,832
23: 1,350,752
26: 1,327,346
1,353,261
1,363,445
29: 1,347,392
1,358,302
30: 1,348,751
147— 24: 1,358,585
32: 1,337,796
38: 1,351,934
47: 1,349,965
48: 1,339,063
148— 4: 1,358,408
1,360,843
6: 1,327,400
1,327,401
1,341,100
7: 1,346,473
1,362,213
8: 1,329,573
1,331,866
1,334,092
1,344,372
10: 1,335,453
1,343,976
1,345,377
1,344,643
1,350,483
1,355,521
11: 1,330,581
1,331,479
1,359,810
12: R. 14,820
1,334,379
1,344,392
1,345,045
1,360,551
13: 1,328,851
1,331,889
1,335,545
1,340,913
1,351,440
1,351,494
1,357,705
1,359,238
1,363,467
14: 1,344,658
1,351,961
1,359,281
15: 1,345,050
16: 1,358,810
18: 1,362,924
19: 1,334,404
1,335,094
1,359,282
20: 1,362,147
21: 1,333,767
1,335,977
1,358,281
1,359,851
23: 1,332,160
1,359,010
1,362,472
1,362,739

148— 24: 1,338,736
1,340,437
25: 1,327,620
1,338,841
1,343,359
1,357,871
1,361,131
27: 1,356,644
30: 1,333,768
1,348,479
1,361,298
149— 2: 1,331,723
1,338,531
4: 1,349,150
1,355,374
5: 1,327,105
1,334,216
1,339,751
1,345,429
1,360,923
1,362,502
6: 1,346,385
7: 1,345,234
1,345,430
9: 1,359,225
1,363,771
14: 1,355,965
15: 1,356,016
16: 1,332,747
1,339,201
1,344,467
1,347,866
1,355,437
19: 1,330,962
20: 1,340,262
1,342,760
21: 1,338,050
1,339,093
1,348,238
1,355,928
1,358,183
1,363,449
150— 0.5: 1,344,760
1: 1,335,607
1,341,157
2: 1,335,620
1,337,859
1,346,033
1,347,704
1,354,220
1,355,740
1,361,203
3: 1,338,375
1,354,206
4: 1,362,884
5: 1,361,605
7: 1,357,496
8: 1,328,859
1,328,988
1,331,294
1,335,467
1,340,236
1,360,844
9: 1,342,877
1,356,111
10: 1,361,908
23: 1,351,388
26: 1,354,581
28: 1,354,579
33: 1,359,461
34: 1,344,124
1,359,319
36: 1,333,672
1,360,044
37: 1,350,980
42: 1,342,432
48: 1,353,627
49: 1,356,203
50: 1,339,851
51: 1,337,898
1,357,590
52: 1,330,345
1,338,693
1,349,727
1,358,133
1,362,671
54: 1,336,757
58: 1,362,489
151— 2: 1,327,373
1,341,604
1,358,795
3: 1,333,495
1,333,529
1,341,279
1,357,389
1,363,210
4: 1,329,609
5: R. 14,928
1,337,164
1,357,916
1,360,143
1,360,662
6: 1,343,334

151— 6: 1,346,975
8: 1,328,039
1,350,165
1,359,299
9: 1,333,742
10: 1,355,342
1,362,509
11: 1,344,534
12: 1,342,508
1,360,365
13: 1,334,804
1,339,120
1,349,260
1,358,690
15: 1,337,700
1,341,369
1,357,331
16: 1,334,227
17: 1,342,319
1,349,696
18: 1,327,836
1,331,011
19: 1,328,401
1,344,644
1,346,730
1,347,722
1,353,382
20: 1,347,124
21: 1,320,814
1,337,424
1,340,496
1,346,301
1,348,787
1,350,142
1,351,676
1,352,765
24: 1,340,602
25: 1,326,992
1,334,389
1,349,768
1,350,545
1,351,974
1,352,090
1,352,103
26: 1,359,287
28: 1,328,399
1,328,443
1,334,893
1,352,643
1,358,586
1,362,288
29: 1,334,887
1,335,901
1,338,862
1,339,015
1,341,741
1,350,230
1,352,053
30: 1,334,359
1,347,294
1,361,838
31: 1,334,977
1,363,710
32: 1,346,907
1,350,139
1,350,968
33: 1,349,491
1,363,181
34: 1,353,602
36: 1,332,015
1,362,675
37: 1,350,404
1,353,777
1,355,373
1,363,504
38: 1,355,563
39: 1,341,400
1,345,993
41: 1,335,944
1,351,235
44: 1,356,809
47: 1,327,152
48: 1,344,845
53: 1,327,435
1,342,559
1,358,496
55: 1,332,521
57: 1,344,684
59: 1,332,368
1,336,733
61: 1,353,773
62: 1,349,404
64: 1,362,270
66: 1,336,077
152— 1: 1,336,790
1,340,556
1,342,562
1,343,154
1,344,346
1,346,032
1,346,692
1,347,060
1,348,614

152— 1: 1,358,308
1,360,119
1,360,907
1,362,123
1,363,856
1,363,857
2: 1,327,369
1,329,764
1,329,765
1,329,766
1,330,876
1,333,831
1,335,460
1,336,363
1,336,369
1,338,009
1,341,079
1,341,301
1,341,789
1,342,086
1,343,784
1,345,281
1,346,813
1,352,683
1,353,828
1,360,068
1,362,572
3: 1,346,785
5: 1,327,717
1,327,794
1,330,756
1,331,023
1,331,358
1,332,816
1,333,779
1,334,067
1,334,204
1,335,115
1,339,472
1,339,875
1,339,876
1,341,942
1,342,158
1,343,233
1,343,685
1,344,773
1,346,336
1,351,894
1,352,074
1,352,885
1,353,757
1,354,984
1,356,537
1,361,065
1,362,714
1,362,731
6: 1,328,632
1,355,771
7: 1,334,494
1,336,452
1,363,639
8: 1,327,478
1,327,843
1,329,021
1,329,215
1,329,331
1,329,819
1,330,943
1,331,606
1,332,781
1,335,045
1,335,246
1,335,452
1,335,663
1,335,820
1,336,868
1,337,289
1,337,528
1,338,290
1,339,361
1,339,800
1,340,272
1,340,592
1,340,593
1,340,984
1,341,391
1,341,576
1,341,656
1,342,339
1,343,172
1,343,540
1,343,766
1,344,974
1,345,228
1,345,506
1,345,777
1,346,074
1,346,155
1,346,290
1,346,514
1,346,695
1,346,766
1,347,442

Digitized by Google

Classification of patents—Continued.

152— 8: 1,347,585
1,347,953
1,348,105
1,348,954
1,349,163
1,349,339
1,349,599
1,351,536
1,351,576
1,352,305
1,352,639
1,353,700
1,353,921
1,354,304
1,354,363
1,354,392
1,354,431
1,354,449
1,354,520
1,354,691
1,355,748
1,356,438
1,358,410
1,358,671
1,361,721
1,362,265
1,362,447
1,362,694
1,362,891
1,363,743
1,363,951
9: 1,335,496
10: 1,335,268
1,336,139
1,337,813
1,338,595
1,339,516
1,340,199
1,347,679
1,347,950
1,352,769
1,355,011
1,359,949
1,362,774
1,363,821
11: 1,327,371
1,330,072
1,330,560
1,335,562
1,338,337
1,348,111
1,349,671
1,358,524
1,359,214
11.5: 1,330,108
1,330,759
1,334,897
1,334,985
1,335,976
1,337,316
1,338,562
1,339,041
1,343,160
1,344,854
1,345,570
1,350,068
1,355,230
1,356,457
1,357,286
1,357,633
1,361,570
1,361,884
1,363,216
12: 1,328,488
1,329,126
1,329,146
1,329,182
1,329,776
1,330,577
1,331,060
1,331,194
1,331,347
1,333,091
1,334,996
1,335,861
1,336,023
1,337,371
1,337,606
1,338,054
1,338,245
1,339,113
1,341,828
1,346,073
1,347,286
1,349,463
1,349,522
1,349,902
1,349,922
1,351,400
1,351,780
1,353,061
1,353,125
1,353,415

152— 12: 1,353,878
1,354,201
1,355,359
1,356,476
1,357,500
1,357,906
1,358,649
1,359,183
1,362,526
13: 1,332,149
1,335,442
1,336,178
1,337,660
1,339,732
1,339,868
1,339,948
1,339,951
1,340,339
1,341,683
1,345,997
1,346,031
1,347,847
1,349,124
1,349,898
1,350,995
1,355,788
1,355,986
1,357,098
1,360,453
1,363,300
1,363,386
14: 1,327,538
1,328,297
1,328,298
1,329,200
1,329,483
1,329,628
1,329,838
1,330,194
1,330,480
1,331,391
1,332,362
1,333,134
1,333,788
1,333,873
1,333,898
1,334,055
1,334,110
1,334,363
1,335,165
1,335,691
1,335,916
1,336,175
1,337,443
1,338,037
1,338,175
1,338,626
1,338,646
1,338,772
1,338,842
1,338,843
1,339,854
1,339,963
1,339,978
1,339,979
1,340,182
1,340,183
1,341,331
1,343,293
1,343,294
1,344,273
1,344,477
1,345,256
1,346,226
1,346,346
1,346,469
1,347,524
1,348,200
1,348,402
1,348,992
1,349,055
1,349,083
1,349,149
1,349,514
1,350,484
1,351,206
1,352,403
1,354,537
1,355,027
1,355,372
1,355,464
1,355,610
1,355,972
1,356,035
1,356,963
1,357,300
1,357,322
1,357,334
1,357,448
1,357,897
1,358,391
1,358,590
1,358,815

152— 14: 1,360,599
1,360,600
1,360,806
1,360,855
1,361,693
1,362,851
1,363,175
16: 1,328,539
1,329,432
1,330,129
1,330,587
1,332,001
1,336,271
1,337,050
1,338,934
1,340,629
1,342,169
1,342,753
1,344,853
1,346,262
1,347,368
1,347,513
1,347,982
1,348,697
1,349,295
1,349,626
1,353,329
1,355,056
1,356,288
1,357,132
1,357,157
1,360,866
1,361,022
17: 1,328,054
1,330,855
1,336,663
1,340,179
1,343,155
1,345,812
1,351,664
1,352,093
1,352,164
1,358,019
1,358,975
1,362,475
1,362,979
18: 1,327,508
1,330,732
1,332,309
1,340,608
1,343,418
1,346,632
1,348,871
1,351,015
1,352,375
1,354,411
1,356,702
1,358,962
1,359,910
1,362,516
1,363,976
20: 1,358,641
1,359,827
21: 1,327,096
1,327,180
1,327,759
1,328,605
1,328,731
1,329,289
1,329,768
1,329,976
1,330,061
1,330,758
1,331,375
1,331,541
1,332,121
1,333,232
1,333,518
1,333,630
1,333,674
1,333,679
1,333,680
1,333,748
1,333,915
1,334,153
1,335,411
1,335,662
1,335,778
1,336,531
1,336,934
1,337,446
1,337,652
1,338,067
1,338,072
1,338,110
1,338,145
1,338,390
1,338,634
1,338,677
1,339,168
1,339,651
1,340,094
1,340,244

152— 21: 1,340,671
1,340,894
1,340,901
1,340,977
1,341,000
1,341,118
1,341,124
1,341,877
1,341,928
1,342,118
1,342,225
1,342,622
1,343,394
1,344,682
1,345,289
1,345,282
1,345,313
1,345,332
1,345,659
1,346,178
1,346,438
1,346,569
1,347,144
1,347,581
1,347,602
1,348,137
1,348,975
1,351,183
1,351,537
1,353,988
1,354,458
1,355,641
1,358,803
1,363,182
1,363,498
1,363,884
1,363,952
22: 1,330,815
1,332,953
1,334,205
1,334,448
1,336,348
1,339,283
1,341,380
1,341,936
1,342,297
1,362,187
23: 1,332,416
1,338,807
1,340,435
1,341,345
1,353,726
1,355,735
1,356,414
1,357,738
1,358,936
1,363,035
24: 1,334,171
1,357,116
26: 1,331,855
1,346,113
1,348,466
1,353,957
1,357,734
1,359,380
27: 1,332,412
1,342,565
1,343,971
1,344,838
1,345,849
1,348,005
1,349,990
1,350,770
1,354,457
1,356,504
1,358,805
1,362,250
1,363,183
28: 1,335,443
1,335,939
1,336,060
1,340,944
1,344,513
1,345,250
1,347,034
1,348,590
1,349,559
1,353,731
1,354,466
29: 1,330,492
1,334,128
1,344,012
1,344,990
1,345,827
1,345,912
1,352,858
1,354,844
1,363,975
30: 1,332,486
1,335,661
1,343,898
1,344,483

152— 30: 1,352,752
1,353,175
1,363,129
31: 1,329,213
1,330,504
1,332,721
1,333,341
1,334,111
1,335,710
1,335,711
1,335,712
1,335,713
1,346,084
32: 1,327,343
1,331,687
1,337,068
1,337,445
1,338,061
1,341,842
1,342,289
1,343,940
1,343,980
1,350,370
33: 1,338,011
1,343,567
1,344,025
1,345,163
1,352,370
34: 1,334,970
1,359,925
35: 1,346,945
36: 1,328,779
1,330,222
1,333,928
1,333,929
1,343,084
1,348,165
1,353,325
1,353,326
1,356,115
37: 1,348,522
1,359,825
1,363,596
38: 1,332,871
1,336,817
1,343,961
1,351,784
41: 1,344,401
42: 1,342,271
44: 1,328,858
1,333,650
1,333,770
1,334,402
45: 1,348,437
1,351,345
47: 1,337,369
48: 1,331,716
1,344,337
1,344,579
1,351,640
1,354,269
50: R. 14,900
1,328,244
1,329,111
1,335,752
1,336,081
1,339,676
1,344,986
1,347,183
1,348,834
1,349,019
1,361,984
52: 1,341,907
53: 1,339,132
1,342,461
110: 1,335,469
1,348,714
114: 1,338,851
1,340,484
1,354,024
117: 1,328,757
1,346,503
1,355,609
153— 1: 1,333,574
1.5: 1,347,055
1,348,336
1,348,660
2: 1,343,647
1,354,951
1,355,351
1,356,567
4: 1,354,770
1,359,255
6: 1,332,154
1,337,463
9: 1,329,659
10: 1,345,000
13: 1,348,215
15: 1,355,720
16: 1,330,026
1,347,474
20: 1,333,751
21: R. 14,907

153— 21: 1,344,637
1,348,806
22: 1,344,105
25: 1,356,980
27: 1,332,354
1,335,625
28: 1,347,190
32: 1,340,320
1,342,554
1,345,386
1,351,389
1,351,472
1,358,396
1,363,601
37: 1,326,981
38: 1,342,263
1,342,564
1,348,535
1,355,713
1,358,035
1,359,533
39: 1,349,219
1,359,525
1,361,513
1,361,514
1,361,515
1,361,528
40: 1,330,317
1,333,369
1,353,635
44: 1,349,070
45: 1,346,981
46: 1,353,168
48: 1,336,543
1,337,587
49: 1,330,782
1,360,242
51: 1,331,630
1,353,272
53: 1,350,648
1,351,358
54: 1,350,307
1,359,197
1,360,450
56: 1,338,946
58: 1,360,403
59: 1,333,170
64: 1,349,444
1,353,714
65: 1,338,737
1,340,298
1,340,516
67: 1,327,728
1,338,498
1,344,116
1,349,908
1,358,933
69.5: 1,326,916
71: 1,339,023
73: 1,349,690
77: 1,352,813
78: 1,341,636
79: 1,350,904
1,351,947
80: 1,346,957
80.5: 1,327,491
82: 1,357,059
1,362,935

154— 1: 1,327,828
1,330,413
1,330,976
1,332,534
1,333,718
1,335,124
1,338,164
1,337,702
1,340,883
1,341,956
1,341,961
1,347,852
1,348,387
1,348,898
1,349,777
1,350,410
1,353,456
1,353,512
1,353,933
1,354,156
1,355,292
1,355,525
1,356,845
1,358,094
1,358,126
1,361,970
1,362,066
1,362,106
1,363,441
2: 1,331,822
1,334,637
1,335,058
1,337,660
1,339,606
1,341,612

Digitized by Google

Classification of patents—Continued.

154— 2: 1,342,185
1,345,922
1,346,612
1,347,848
1,347,918
1,348,644
1,348,755
1,349,778
1,350,271
1,350,281
1,350,533
1,352,390
1,352,436
1,352,470
1,353,510
1,353,800
1,355,265
1,355,534
1,356,961
1,358,340
1,358,957
1,361,971
3: 1,351,901
1,362,604
4: R. 14,875
1,354,738
5: 1,340,703
1,349,752
6: 1,327,677
8: 1,339,103
1,342,441
1,344,143
1,361,001
9: R. 14,879
R. 14,994
1,329,239
1,329,849
1,330,886
1,333,150
1,339,451
1,348,596
1,352,601
1,352,807
1,353,934
1,354,849
1,358,729
1,358,941
1,359,779
1,360,310
1,363,920
10: 1,327,910
1,331,242
1,331,657
1,332,108
1,332,608
1,333,927
1,334,185
1,335,879
1,338,407
1,343,399
1,352,099
11: 1,337,207
1,345,995
1,359,632
12: 1,330,128
1,346,389
1,349,914
1,351,856
14: 1,327,802
1,327,912
1,328,006
1,329,463
1,329,954
1,332,779
1,335,150
1,336,624
1,340,702
1,340,704
1,341,121
1,341,247
1,345,994
1,345,998
1,346,623
1,348,164
1,349,913
1,349,390
1,351,463
1,354,174
1,356,132
16: 1,339,992
17: 1,327,728
1,329,311
25: 1,334,049
1,334,050
1,344,145
26: 1,351,679
27: 1,337,254
1,356,309
28: 1,340,812
1,353,621
31: 1,327,158
1,357,453
33: 1,362,698

154— 35: 1,345,081
36: 1,334,047
40: 1,339,927
41: 1,329,381
1,356,847
42: 1,328,056
1,331,063
1,334,003
1,352,383
1,353,421
1,353,879
1,356,761
1,358,582
43: 1,336,408
1,341,740
1,346,534
1,351,488
1,356,399
44: R. 14,970
1,329,409
1,331,382
1,332,314
1,333,141
1,333,624
1,335,909
1,345,046
1,345,423
1,345,693
1,353,022
1,355,083
1,363,173
45: 1,337,378
1,340,332
1,341,396
1,343,986
1,363,440
45.5: 1,329,558
1,330,148
1,342,198
1,351,438
45.9: 1,333,320
1,344,962
1,347,487
1,348,082
1,353,619
1,358,508
1,362,388
46: 1,327,707
1,328,023
1,345,810
1,345,944
1,352,739
1,356,783
1,363,559
46.5: 1,331,119
1,362,677
49: 1,352,733
1,360,063
50: 1,347,619
1,347,775
1,353,323
1,356,234
1,361,246
51: 1,328,267
1,343,478
1,348,259
1,357,920
1,361,517
1,362,387
52: 1,330,973
1,341,955
1,343,368
53: 1,327,281
1,358,283
54: 1,336,404
1,355,177
55: 1,360,142
81: 1,343,571
459: 1,334,796

155— 2: 1,335,950
1,343,594
3: 1,329,485
5: 1,332,957
1,339,611
1,353,701
1,356,558
6: 1,330,304
1,340,467
1,345,518
7: 1,334,157
1,334,660
1,337,608
1,337,609
1,338,616
1,342,235
1,353,232
1,358,784
1,360,162
8: 1,329,261
1,331,145
1,333,867
9: 1,327,706
1,340,754

155— 9: 1,345,745
1,358,561
1,362,041
1,362,042
1,364,033
10: 1,337,295
1,347,594
1,348,569
1,363,057
12: 1,332,328
1,338,401
13: 1,330,185
1,330,692
1,336,641
1,339,445
1,353,708
1,354,137
14: 1,341,050
1,361,690
15.7: 1,361,178
17: 1,343,523
18: 1,327,475
20: 1,327,941
1,339,608
22: 1,329,546
1,330,373
1,332,461
1,342,518
1,350,401
1,361,102
23: 1,326,943
24: 1,335,883
1,357,043
25: 1,334,038
1,336,525
1,341,192
1,341,555
1,347,264
26: 1,333,554
1,335,776
1,336,097
28: 1,335,379
31: 1,332,406
1,339,891
1,342,715
33: 1,329,605
1,344,316
34: 1,328,169
1,333,301
1,334,426
1,344,901
35: 1,328,181
37: 1,347,037
1,350,021
38: 1,355,039
39: 1,347,702
41: 1,333,392
1,335,973
1,339,669
1,359,723
1,360,776
42: 1,348,474
1,358,142
1,359,486
1,362,051
43: 1,336,571
1,345,268
1,349,164
1,357,255
44: 1,334,058
1,359,671
45: 1,326,921
1,328,826
1,347,417
1,347,748
48: 1,344,277
49: 1,349,227
1,362,444
50: 1,355,225
51: 1,359,528
53: 1,355,263
54: 1,357,743
55: 1,335,988
58: 1,339,296
1,340,904
1,343,124
1,345,385
1,346,973
1,363,453
63: 1,356,418
1,360,495
65: 1,345,333
1,352,317
1,355,260
68: 1,335,360
73: 1,353,066
75: 1,341,303
77: 1,335,884
1,336,509
1,346,110
1,354,133
79: 1,337,103
1,351,746

155— 79: 1,356,235
1,361,446
80: 1,348,375
81: 1,337,221
1,344,940
1,352,409
1,361,323
82: 1,334,167
1,350,669
1,361,524
83: 1,355,005
84: 1,350,041
1,358,194
1,363,940
85: 1,351,268
87: 1,345,105
1,357,547
89: 1,355,404
90: 1,332,201
1,339,262
93: 1,332,200
94: 1,344,092
1,357,525
95: 1,337,059
96: 1,346,386
101: 1,355,192
1,360,966
105: 1,348,429
108: 1,353,595
1,357,130
112: 1,334,365
113: 1,357,740
115: 1,352,415
124: 1,355,681
126: 1,361,504
1,361,505
127: 1,351,634
128: 1,348,024
1,351,548
1,361,422
130: 1,341,496
1,351,995
1,356,202
131: 1,359,573
132: 1,347,127
1,357,469
136: 1,338,124
1,355,944
137: 1,344,431
138: 1,330,427
1,332,402
1,333,949
139: 1,341,089
1,344,097
141: 1,352,185
1,353,094
142: 1,342,650
143: 1,341,225
145: 1,361,084
147: 1,349,271
154: 1,363,607
157: 1,336,510
1,346,032
1,357,926
1,358,273
1,359,145
158: 1,345,785
161: 1,361,799
165: 1,362,092
167: 1,348,683
168: 1,343,119
1,344,402
1,347,129
1,361,700
169: 1,337,919
1,361,010
171: 1,334,771
173: 1,358,044
177: 1,349,673
179: 1,329,574
1,333,901
1,342,522
1,345,830
1,351,748
1,359,120
1,361,453
180: 1,330,038
1,339,337
181: 1,338,906
183: 1,345,187
1,349,347
184: 1,331,562
1,339,281
1,340,475
1,353,340
1,353,885
1,355,669
1,360,196
188: 1,329,988
1,338,582
1,356,493
189: 1,348,334
190: 1,345,729

155— 190: 1,355,643
194: 1,361,387
196: 1,340,753
1,357,673
197: 1,339,068
156— 10: 1,330,268
1,331,346
1,331,397
1,332,752
1,358,341
13: 1,351,289
1,353,122
14: 1,333,513
1,335,854
1,343,933
1,344,093
1,347,946
1,350,027
1,351,733
1,351,940
1,352,350
1,359,146
1,363,921
15: 1,349,532
1,361,747
1,363,321
16: 1,327,363
1,327,364
1,329,352
1,352,656
17: 1,336,325
1,342,527
1,344,448
1,360,560
19: 1,326,951
1,334,034
1,338,168
1,339,353
1,341,051
1,342,099
1,344,412
1,349,041
1,349,042
1,350,846
1,351,919
1,356,454
1,359,012
1,361,058
20: 1,329,889
1,346,747
21: 1,339,247
1,345,868
22: 1,327,961
1,333,702
1,345,170
1,347,525
1,349,933
1,352,652
1,357,054
23: 1,327,460
1,330,358
1,331,738
1,333,425
1,333,426
1,335,373
1,336,051
1,336,936
1,337,827
1,338,312
1,340,684
1,341,535
1,341,562
1,342,070
1,345,340
1,346,354
1,350,221
1,351,697
1,356,127
1,357,964
1,358,239
1,360,137
1,361,881
1,363,489
24: 1,328,579
1,329,249
1,330,465
1,330,997
1,332,013
1,332,247
1,332,285
1,332,749
1,332,794
1,333,163
1,333,456
1,335,114
1,335,954
1,336,047
1,337,594
1,337,615
1,337,768
1,338,591
1,341,025
1,341,742

156— 24: 1,342,230
1,343,126
1,343,284
1,343,859
1,343,907
1,344,208
1,346,233
1,346,749
1,347,126
1,348,399
1,350,336
1,350,623
1,351,286
1,352,264
1,353,695
1,354,397
1,354,917
1,354,974
1,355,493
1,355,974
1,356,237
1,357,605
1,358,270
1,358,571
1,358,967
1,359,352
1,363,328
25: 1,333,906
26: 1,327,150
1,335,968
27: 1,326,941
1,328,126
1,330,243
1,333,010
1,333,326
1,337,370
1,343,771
1,344,703
1,359,066
28: 1,347,966
1,362,760
29: 1,355,273
33: 1,331,079
1,344,233
1,354,678
35: 1,329,092
1,348,928
36: 1,329,992
1,341,530
1,342,017
1,344,358
1,345,097
1,346,406
1,350,400
1,352,410
1,355,458
1,359,622
1,361,778
37: R. 14,987
1,328,577
1,332,131
1,334,148
1,343,069
1,345,569
1,345,132
1,361,659
1,362,846
38: 1,332,924
1,335,583
1,336,101
1,339,464
1,341,188
1,344,758
1,352,372
39: 1,329,929
1,335,573
1,338,223
1,340,103
1,340,797
1,342,298
1,349,438
1,351,275
1,354,313
1,355,246
1,355,608
1,356,083
1,363,746
42: 1,351,341
1,357,048
44: 1,335,930
1,346,351
1,346,622
1,358,958
46: 1,340,066
47: 1,329,915

157— 1: R. 14,803
1,330,349
1,331,859
1,335,039
1,335,248
1,335,796
1,339,504
1,341,104

Digitized by Google

Classification of patents—Continued.

157— 1: 1,341,728
1,341,729
1,342,295
1,343,992
1,344,889
1,349,541
1,350,418
1,350,524
1,351,406
1,353,078
1,353,765
1,354,118
1,357,822
1,360,415
6: 1,330,648
1,332,191
1,333,647
1,336,916
1,341,726
1,341,727
1,341,730
1,343,893
1,352,135
1,352,550
1,352,722
1,353,020
1,358,336
1,358,948
158— 1: 1,328,075
1,329,052
1,336,980
1,337,703
1,338,438
1,363,867
1,363,979
1.5: 1,329,279
1,344,029
1,350,037
2: 1,328,198
3: 1,333,868
1,340,202
1,360,641
4: 1,341,294
1,341,524
1,353,795
4.5: 1,331,804
5: 1,334,456
1,359,917
1,357,425
7: R. 14,914
1,341,258
1,345,404
1,347,954
1,349,040
7.5: 1,333,716
1,338,288
1,343,315
1,361,595
7.6: 1,344,438
10: 1,353,214
11: 1,327,092
1,354,567
12: 1,344,341
1,354,531
13: 1,338,853
23.1: 1,338,327
1,345,989
25: 1,341,497
26: 1,334,254
1,345,411
1,350,181
27: 1,333,590
27.4: 1,328,329
1,330,522
1,332,281
1,335,569
1,335,922
1,340,690
1,344,988
1,357,324
1,359,504
1,360,431
1,361,667
1,362,877
27.5: 1,329,270
28: 1,327,256
1,331,985
1,334,440
1,340,012
1,341,688
1,345,361
1,348,528
1,349,668
1,353,047
1,356,239
1,362,001
1,363,880
29: 1,332,616
1,336,261
1,349,876
1,351,944
1,352,227
31: 1,334,560
158— 31: 1,340,383
1,349,877
1,362,829
33: 1,338,653
1,338,940
1,341,127
1,341,514
1,343,403
36: R. 14,912
1,328,354
1,328,920
1,329,677
1,329,781
1,329,997
1,330,788
1,330,796
1,330,797
1,330,798
1,330,919
1,331,445
1,332,003
1,332,319
1,332,377
1,332,615
1,332,855
1,334,251
1,334,612
1,335,792
1,336,717
1,338,008
1,338,323
1,338,965
1,339,441
1,340,983
1,341,515
1,342,830
1,343,991
1,345,398
1,346,196
1,346,482
1,348,084
1,348,406
1,348,916
1,349,993
1,350,001
1,350,151
1,352,123
1,352,671
1,353,949
1,356,096
1,357,182
1,357,309
1,357,361
1,358,118
1,359,042
1,359,392
1,360,026
1,360,026
1,360,027
1,360,028
1,361,621
1,361,641
1,362,150
1,362,334
1,363,868
38: 1,334,060
1,336,288
41: 1,343,343
45.5: R. 14,800
1,353,664
1,361,263
1,361,614
46: 1,337,038
1,341,393
1,343,812
46.5: 1,329,074
1,335,093
1,343,173
1,344,738
1,350,808
1,355,742
1,357,986
1,357,987
1,357,988
1,358,783
1,359,336
50.1: 1,361,418
53: 1,329,862
1,336,798
1,340,038
1,349,923
1,352,063
1,353,683
1,360,898
1,363,048
56: 1,334,473
1,342,988
1,363,855
57: 1,341,644
60: 1,340,803
61: 1,331,048
1,338,361
158— 61: 1,353,010
1,355,500
1,362,874
63: 1,332,181
1,336,103
1,336,208
1,341,797
1,342,526
1,344,414
1,346,370
1,349,475
1,351,208
1,355,704
1,362,017
64: 1,329,066
1,344,978
1,346,373
1,346,391
1,347,007
65: 1,327,763
1,329,224
1,345,612
1,346,770
1,354,314
66: 1,330,294
1,331,135
1,352,373
67: 1,348,964
1,359,176
69: 1,344,421
1,347,858
1,351,848
71: 1,347,920
1,359,284
72: 1,330,696
73: 1,330,767
1,332,782
74: 1,338,679
1,339,580
1,339,709
75: 1,331,376
1,331,431
1,335,676
1,339,579
1,342,226
1,349,479
1,352,347
1,359,747
1,360,595
76: 1,334,747
1,337,328
1,339,358
1,342,027
1,342,732
1,353,112
1,355,443
77: 1,327,571
1,331,558
78: 1,326,996
1,332,480
1,346,134
1,351,550
1,363,131
79: 1,330,635
1,331,162
80: 1,362,881
81: 1,337,498
84: 1,360,955
87: 1,333,563
1,339,207
88: 1,341,910
89: 1,333,577
1,362,010
90: 1,327,857
91: 1,328,419
1,329,445
1,329,446
1,343,945
1,347,458
1,348,574
1,350,199
1,350,466
1,350,917
1,353,636
1,355,958
1,362,192
92: 1,335,166
1,341,642
1,341,643
1,346,904
94: 1,332,775
1,339,208
1,341,494
96: 1,333,557
1,345,419
1,347,631
1,353,314
99: 1,330,048
1,331,022
1,332,791
1,335,869
1,338,463
1,341,266
158— 99: 1,342,436
1,343,700
1,349,279
1,352,351
1,352,358
1,352,473
1,353,312
1,359,405
1,360,795
104: 1,337,482
1,359,128
1,361,804
105: 1,328,589
1,348,261
1,351,715
1,351,831
1,359,417
106: 1,339,618
1,342,617
109: 1,333,785
1,337,801
1,340,002
1,349,319
110: 1,328,225
1,333,218
1,343,098
111: 1,342,912
112: 1,354,295
113: 1,340,226
1,346,781
115: 1,339,102
1,348,390
1,353,217
116: 1,329,066
1,329,649
117: 1,341,089
117.5: 1,332,684
1,342,901
1,344,049
118: 1,329,641
1,346,935
1,355,998
1,357,351
1,360,981
119: 1,347,955
1,350,051
1,356,568
1,363,513
120: 1,338,633
1,349,932
1,360,824
179: 1,329,068
159— 13: 1,347,439
99: 1,344,555
160— 1: 1,327,036
1,333,265
1,339,402
1,342,176
1,343,693
1,350,125
161— 1: 1,337,680
1,338,761
1,339,634
1,340,358
1,345,383
1,348,746
1,357,672
2: 1,336,318
3: 1,333,735
4: 1,330,944
7: 1,330,721
1,336,037
1,356,268
8: 1,329,020
1,331,639
1,333,649
1,336,476
1,337,037
1,339,468
9: 1,348,756
1,360,308
9.5: 1,353,441
11: 1,362,299
15: 1,337,014
1,337,335
1,340,324
1,357,281
16: 1,329,421
1,355,817
1,355,829
23: 1,337,759
1,337,760
26: 1,329,714
1,333,041
1,333,918
1,334,501
1,339,117
1,344,440
1,348,855
1,354,461
26.5: 1,361,349
155: 1,363,913
162— 1: 1,327,404
162— 1: 1,328,139
1,329,465
1,336,699
1,341,010
1,342,128
1,355,606
1,361,715
1,362,052
2: 1,335,170
3: 1,352,437
4: R. 14,809
1,329,093
1,348,537
1,356,824
1,359,317
8: 1,344,887
163— 6: 1,360,234
7: 1,352,670
8: 1,326,925
1,335,731
1,347,851
164— 2: 1,344,488
4: 1,347,486
6.5: 1,353,198
1,361,138
10.5: 1,346,119
10.6: 1,347,912
15: 1,333,201
17: 1,334,149
1,339,990
1,340,402
17.5: 1,342,008
1,351,010
18: 1,343,639
19: 1,341,589
1,344,034
21: 1,332,530
1,337,307
1,340,882
1,346,589
1,347,615
1,356,178
22: 1,344,975
1,351,951
1,357,357
24: 1,362,365
1,362,410
28: 1,340,884
1,363,526
29: 1,328,347
1,334,102
1,340,006
1,340,235
1,343,383
1,343,759
31: 1,354,906
34: 1,332,912
1,341,765
37: 1,359,812
38: 1,348,636
39: 1,356,271
42: 1,335,728
1,356,616
43: 1,328,671
1,333,940
1,359,058
44: 1,342,473
1,353,413
45: 1,338,291
46: 1,349,180
1,356,262
47: 1,349,915
1,353,367
1,357,727
1,357,842
1,361,798
48: 1,332,990
1,334,044
1,347,134
1,352,492
1,352,842
1,357,356
1,359,076
1,360,275
49: 1,327,915
1,337,208
1,337,464
1,340,137
1,340,706
1,341,450
1,342,621
1,343,487
1,344,155
1,347,618
1,348,976
1,349,020
1,355,796
50: 1,351,116
51: 1,330,186
1,337,675
56: 1,334,718
57: 1,343,079
58: 1,334,391
164— 58: 1,340,018
1,342,240
1,351,115
1,360,286
59: 1,332,848
1,341,312
1,345,033
1,346,185
1,347,536
60: 1,345,802
1,348,635
1,340,225
1,359,770
1,361,531
62: 1,337,458
1,341,818
1,359,072
63: 1,347,976
1,353,756
64: 1,339,878
65: 1,328,432
1,347,872
1,350,064
1,353,634
1,355,104
1,354,463
1,354,464
1,356,485
1,358,101
67: 1,356,900
68: 1,326,986
1,331,727
1,337,778
1,343,146
1,344,302
1,352,154
1,353,769
69: 1,345,458
1,348,316
1,361,185
71: 1,327,082
1,353,526
73: 1,343,722
1,344,169
1,344,906
1,352,240
74: 1,351,569
76: 1,338,478
1,342,210
1,353,052
78: 1,341,445
80: 1,328,547
1,360,618
82: 1,341,067
1,345,320
83: 1,338,290
84: 1,363,104
86: 1,337,000
1,338,082
1,346,916
1,356,248
1,357,358
1,358,328
87: 1,331,493
1,334,364
1,336,622
1,344,587
1,349,975
1,349,996
88: 1,329,788
1,344,492
1,346,089
1,353,292
89: 1,351,264
90: 1,333,704
1,342,879
1,344,435
94: 1,336,529
1,338,457
96: 1,335,632
1,348,788
1,352,378
1,360,905
98: 1,351,602
1,356,313
100: 1,351,751
101: 1,345,395
112: 1,359,468
113: 1,351,432
115: 1,349,995
116: 1,342,878
117: 1,342,890
1,358,609
119: 1,331,437
1,338,300
122: 1,338,005
124: 1,338,969
164— 86: 1,363,102

Digitized by Google

Classification of patents—Continued.

164— 98: 1,362,088
165— 6: 1,351,849
166— 1: 1,330,023
1,339,955
1,342,679
1,342,780
1,347,534
1,356,554
2: 1,354,027
1,360,913
4: 1,359,017
5: 1,342,813
1,342,986
1,356,187
1,360,301
7: 1,341,755
8: 1,328,438
1,335,975
1,339,898
9: 1,363,987
10: 1,327,077
1,330,430
1,336,738
1,350,553
1,357,958
1,360,540
13: 1,342,927
14: 1,335,588
1,343,426
15: 1,345,214
1,354,694
16: 1,334,678
1,357,856
17: 1,354,757
1,358,393
18: 1,342,618
19: 1,336,881
1,340,295
1,350,348
1,358,028
20: 1,328,069
1,333,390
1,345,755
1,360,083
21: 1,342,781
1,351,945
1,353,132
1,361,282
167— 2: 1,356,544
3: 1,327,550
1,330,460
1,331,207
1,336,772
1,338,069
1,339,783
1,340,061
1,343,108
1,343,579
1,344,318
1,345,123
1,346,337
1,348,837
1,348,938
1,350,104
1,352,289
1,357,754
1,358,227
1,362,358
4: 1,331,125
1,332,108
1,334,852
1,353,169
1,358,048
5: 1,350,843
6: R. 14,990
1,335,457
1,337,338
1,343,034
1,354,043
7: 1,334,463
1,352,768
1,362,149
9: R. 14,961
1,329,148
1,329,349
1,331,690
1,332,190
1,335,488
1,345,819
1,346,132
1,349,326
1,350,842
1,360,093
1,363,960
10: 1,334,318
1,335,986
168— 3: 1,343,436
13: 1,327,493
1,327,716
1,334,438
14: 1,349,888
15: 1,338,584
18: 1,328,708
168— 19: 1,340,764
1,343,874
1,347,630
1,351,769
21: 1,337,194
22: 1,332,089
1,357,399
26: 1,338,986
28: 1,347,021
1,357,909
30: 1,334,705
1,357,930
31: 1,342,615
33: 1,335,555
35: 1,327,523
1,334,410
41: 1,361,744
44: 1,330,807
1,331,594
48: 1,330,716
1,337,571
169— 1: 1,351,700
2: 1,331,777
1,338,778
1,344,630
1,345,509
1,357,410
4: 1,346,099
1,347,057
1,356,207
1,363,271
8: 1,343,364
1,353,466
9: 1,335,394
11: 1,343,911
14: 1,331,466
1,355,951
15: 1,346,035
20: 1,326,922
1,359,511
21: 1,331,383
1,334,847
1,343,776
1,359,327
22: 1,335,358
1,332,720
1,344,380
1,348,981
23: 1,328,994
1,338,146
1,338,147
1,339,567
24: 1,357,982
26: 1,345,435
1,348,565
1,362,223
27: 1,348,480
31: 1,326,927
1,329,831
1,338,166
1,354,093
32: 1,335,682
1,337,130
1,338,828
1,340,601
1,342,768
1,353,884
1,361,997
1,363,009
37: 1,345,592
38: 1,362,236
39: 1,342,203
1,345,217
42: 1,339,829
1,356,919
1,357,347
1,362,812
231: 1,338,148
170— 4: 1,358,669
5: 1,361,696
12: 1,333,987
17: 1,352,952
23: 1,336,315
25: 1,330,380
1,352,859
29: 1,363,174
32: 1,342,318
33: 1,341,045
36: 1,334,882
1,359,180
1,359,693
38: 1,342,811
1,349,182
40: 1,345,022
46: 1,359,605
67: 1,329,299
68: 1,333,675
1,334,485
1,360,013
77: 1,361,019
85: 1,332,178
1,356,421
88: 1,355,386
170— 90: 1,363,101
95: 1,332,299
1,353,906
101: 1,350,265
103: 1,338,890
111: 1,334,595
1,350,025
1,361,111
116: 1,354,231
1,360,221
117: 1,327,745
1,339,012
129: 1,360,472
133: 1,349,077
135: 1,331,997
1,355,112
143: 1,330,296
150: 1,329,081
151: 1,356,088
154: 1,344,040
1,349,724
159: 1,328,004
1,328,005
1,329,735
1,339,886
1,341,653
1,346,508
1,349,981
1,352,848
1,352,877
1,355,321
1,357,348
1,358,430
1,360,598
1,361,277
1,361,498
1,363,392
161: 1,355,758
163: 1,328,241
1,329,473
1,331,045
1,331,612
1,332,475
1,332,528
1,337,133
1,344,040
1,347,377
1,348,432
1,350,312
1,356,429
1,362,036
164: 1,361,785
165: 1,333,126
1,344,496
1,345,055
1,347,424
1,360,933
1,363,660
169: 1,327,066
1,361,999
171: 1,338,574
172: 1,338,516
173: 1,349,758
1,353,961
1,362,032
1,363,723
177: 1,354,842
171— 23: 1,363,037
34: 1,331,059
1,331,915
1,332,464
1,352,235
76: 1,333,119
1,363,585
95: 1,333,422
1,336,399
97: 1,330,571
1,335,541
1,335,709
1,339,903
1,339,923
1,348,052
1,350,426
1,350,895
1,362,081
1,362,624
1,363,707
118: 1,336,488
1,361,912
119: 1,328,473
1,328,797
1,331,065
1,331,898
1,334,126
1,337,854
1,337,942
1,338,718
1,344,743
1,350,899
1,350,920
1,351,033
1,353,691
1,357,197
171— 119: 1,361,216
123: 1,334,942
1,337,071
1,337,100
1,337,648
1,339,910
1,341,340
1,343,026
1,343,451
1,351,035
1,351,036
1,357,227
206: 1,329,027
1,334,675
1,338,093
1,345,370
1,348,198
1,349,558
1,351,897
1,351,898
1,351,907
209: 1,327,160
1,329,926
1,330,038
1,330,165
1,331,998
1,334,298
1,334,918
1,336,196
1,337,739
1,338,151
1,338,924
1,349,092
1,353,566
1,354,546
1,356,975
1,357,008
1,358,027
1,360,640
1,361,133
212: 1,327,349
1,327,950
223: 1,334,831
1,334,832
1,340,004
1,340,005
1,341,492
1,346,164
1,363,167
225: R. 14,787
1,327,795
1,335,141
1,346,213
1,352,539
227: 1,337,086
228: 1,327,820
1,335,144
1,352,920
1,359,955
1,361,363
229: 1,331,223
1,331,545
1,331,815
1,333,662
1,334,868
1,335,357
1,336,416
1,337,573
1,339,930
1,339,996
1,340,678
1,343,905
1,344,222
1,347,767
1,348,148
1,352,051
1,353,060
1,353,319
1,353,401
1,354,160
1,354,713
1,356,097
1,356,099
1,358,701
1,360,822
1,361,197
231: 1,338,041
1,362,950
241: 1,344,742
1,354,901
1,357,229
1,359,687
242: 1,332,463
1,337,855
1,337,875
1,342,250
1,344,713
1,353,658
1,355,347
1,360,462
1,362,492
252: 1,327,375
1,327,619
171— 252: 1,327,821
1,329,242
1,329,247
1,331,970
1,335,536
1,342,179
1,358,809
1,360,482
1,361,136
264: 1,355,153
265: 1,335,152
1,350,485
1,352,564
1,355,515
266: 1,346,090
309: 1,342,081
1,342,082
312: 1,327,819
1,336,520
1,349,371
1,356,221
209: 1,327,160
1,329,926
313: 1,328,321
1,331,234
1,332,610
1,335,120
1,342,765
1,344,970
1,346,181
1,348,037
1,348,171
1,348,236
1,351,055
1,351,788
1,351,828
1,353,869
1,353,870
1,354,798
1,354,799
1,355,869
1,356,012
1,357,933
1,361,651
1,362,346
1,363,630
1,363,806
1,362,898
314: 1,327,682
1,329,799
1,336,764
1,337,366
1,343,597
1,344,089
1,344,812
1,347,323
1,348,098
1,360,592
1,361,432
1,362,794
1,362,844
1,363,889
317: 1,339,897
318: 1,349,584
320: 1,351,926
1,360,166
321: 1,329,267
1,329,277
1,331,936
1,338,092
1,349,003
1,349,854
1,354,005
1,354,006
1,354,007
1,357,016
1,358,691
1,358,736
1,362,084
1,362,029
1,362,663
1,363,688
322: 1,336,544
1,339,988
1,347,970
1,351,975
323: 1,335,936
1,345,691
324: 1,342,583
1,346,108
1,354,899
1,361,968
1,362,007
1,363,644
1,363,721
1,363,722
1,363,758
325: 1,330,561
1,352,408
326: 1,347,590
1,351,059
172— 8: 1,331,940
1,332,631
1,342,797
172— 8: 1,345,060
15: 1,340,908
36: 1,335,129
1,338,568
1,343,221
1,343,362
1,347,647
1,347,879
1,348,239
1,348,539
1,350,077
1,351,294
1,351,999
1,353,883
1,354,388
1,355,283
1,357,582
1,359,600
1,360,483
1,362,049
120: 1,328,465
1,333,058
1,349,377
1,351,270
1,362,543
126: 1,347,002
1,347,209
1,349,100
1,357,613
1,361,229
152: 1,327,421
1,331,780
1,340,240
1,347,751
1,360,420
179: R. 14,861
1,327,784
1,327,789
1,327,822
1,328,513
1,328,514
1,328,515
1,328,631
1,328,804
1,330,554
1,330,557
1,330,592
1,334,774
1,335,111
1,335,112
1,336,562
1,338,333
1,339,817
1,339,929
1,339,945
1,340,679
1,341,650
1,341,657
1,341,675
1,341,937
1,343,211
1,343,345
1,344,763
1,347,905
1,349,678
1,350,937
1,352,483
1,354,167
1,354,168
1,354,188
1,355,475
1,355,549
1,358,580
1,358,704
1,358,735
1,358,737
1,358,738
1,358,769
1,360,257
1,360,300
1,360,745
1,360,918
1,361,224
1,361,546
1,361,991
1,361,992
1,361,993
1,361,994
1,361,995
1,362,358
1,363,299
1,363,638
1,363,647
1,363,681
1,363,757
1,363,813
237: 1,330,638
1,356,244
238: R. 14,978
1,335,050
1,335,108
1,335,109
1,347,457

Digitized by Google

Classification of patents—Continued.

172— 238: 1,345,074
239: 1,327,129
1,330,398
1,330,790
1,331,168
1,332,414
1,333,415
1,337,732
1,339,312
1,347,258
1,347,305
1,352,166
1,353,025
1,356,290
1,357,384
1,357,484
1,359,616
1,362,301
240: 1,330,616
1,342,915
1,347,363
1,350,540
1,362,349
1,363,991
245: 1,355,884
274: 1,328,519
1,328,520
1,329,243
1,331,055
1,333,664
1,334,502
1,336,566
1,347,781
1,349,375
1,349,376
1,356,933
1,356,934
1,356,935
1,356,936
1,362,959
276: 1,328,467
1,335,107
1,335,110
1,335,127
1,336,561
1,338,367
1,338,368
1,344,762
1,345,588
1,347,903
1,347,904
1,360,293
1,361,245
280: 1,328,525
281: 1,334,258
1,347,783
282: 1,360,235
1,360,694
284: 1,334,759
285: 1,343,127
288: 1,327,787
1,328,501
1,330,627
1,330,867
1,331,316
1,331,867
1,334,919
1,335,507
1,337,040
1,343,212
1,344,260
1,347,760
1,348,016
1,354,173
1,354,180
1,354,708
1,357,695
1,361,675
1,363,635
289: 1,330,589
1,335,418
1,343,021
1,343,022
1,343,411
1,361,934
291: 1,352,427
1,352,480
293: 1,350,214
1,356,226
1,362,359
1,362,876
173— 31: 1,330,858
1,342,111
1,342,645
72: 1,327,803
251: 1,362,221
259: 1,328,784
1,336,850
1,338,130
1,345,768
1,346,525
1,352,033
1,357,926

173— 259: 1,363,350
263: 1,343,251
264: 1,329,630
1,340,839
268: 1,336,290
1,354,905
269: 1,334,040
1,334,094
1,335,943
1,339,604
1,342,819
1,352,092
1,361,806
276: 1,339,928
278: 1,327,947
1,335,428
1,336,475
1,336,502
1,336,902
1,336,940
1,353,237
283: 1,333,904
288: 1,339,406
311: 1,350,906
313: 1,334,802
1,346,128
1,358,521
314: 1,326,962
1,329,656
1,335,634
1,354,396
318: R. 14,888
1,329,770
1,333,640
1,350,925
1,360,352
1,362,388
321: 1,328,687
1,328,732
1,333,420
1,348,534
1,361,948
322: 1,342,787
324: 1,329,448
1,335,935
1,339,987
1,346,539
1,358,731
1,359,143
1,359,567
1,359,585
1,362,170
1,363,394
328: 1,332,379
1,336,587
1,341,339
1,348,394
1,348,395
1,352,499
1,353,748
330: 1,361,425
1,361,426
331: 1,328,224
332: 1,329,592
1,336,437
1,336,801
1,349,405
1,353,557
1,356,280
334: R. 14,950
335: 1,332,867
1,333,182
1,341,054
336: 1,353,433
338: 1,336,431
1,362,992
1,363,224
1,363,942
340: 1,336,736
341: 1,344,206
342: 1,351,203
343: 1,335,559
1,341,468
1,351,191
1,352,776
1,352,817
344: 1,336,608
346: 1,342,658
1,355,002
351: 1,351,214
1,343,578
354: 1,333,352
1,360,218
355: 1,350,446
1,354,803
356: 1,326,924
1,331,355
1,334,709
1,334,709
1,345,091
1,345,486
1,348,620
1,348,248

173— 356: 1,360,266
358: 1,327,496
1,331,287
1,335,828
1,336,607
1,355,301
1,360,133
1,362,734
359: 1,328,774
1,328,783
1,329,555
1,331,634
1,338,226
1,340,856
1,346,860
1,347,577
1,359,171
1,361,232
360: 1,337,422
1,353,699
361: 1,343,676
1,347,738
1,356,011
362: 1,328,581
1,336,395
1,361,642
366: 1,335,801
1,363,673
367: 1,340,268
1,348,752
174— 87: 1,354,813
89: 1,327,786
1,337,894
1,338,020
1,363,807
1,363,965
109: 1,345,804
175: 1,344,002
177: 1,337,798
1,338,812
1,343,512
175— 21: 1,333,642
1,333,026
1,334,531
1,335,119
1,338,132
1,338,133
1,338,134
1,340,027
1,343,719
1,345,484
1,346,606
1,355,085
30: 1,328,720
1,337,284
1,340,657
1,345,066
1,354,812
1,356,720
1,358,180
1,359,222
1,359,971
1,361,800
1,361,801
1,361,967
1,362,337
1,363,124
91: 1,360,197
1,361,650
115: 1,346,698
1,347,718
116: 1,341,619
173: 1,329,949
183: 1,327,341
1,328,187
1,329,432
1,330,151
1,330,230
1,330,271
1,332,017
1,332,844
1,333,698
1,334,141
1,335,219
1,335,646
1,335,647
1,335,940
1,335,985
1,336,424
1,337,160
1,337,853
1,338,180
1,338,521
1,339,610
1,339,804
1,340,197
1,340,936
1,341,348
1,342,816
1,342,837
1,343,372
1,344,042
1,344,387

175— 183: 1,344,388
1,345,074
1,345,337
1,345,560
1,346,057
1,346,522
1,346,592
1,346,633
1,347,378
1,348,424
1,348,456
1,349,655
1,349,656
1,349,831
1,351,988
1,352,526
1,352,662
1,353,657
1,357,604
1,358,179
1,358,707
1,360,326
1,361,026
1,361,955
1,363,491
215: 1,338,213
264: 1,328,403
265: 1,335,788
1,350,784
1,353,410
1,356,484
273: 1,337,357
284: 1,327,009
294: 1,327,777
1,328,457
1,329,193
1,329,255
1,331,050
1,332,696
1,333,892
1,334,869
1,335,256
1,336,158
1,337,129
1,337,866
1,338,334
1,339,192
1,339,394
1,339,456
1,339,981
1,341,486
1,341,488
1,342,219
1,343,018
1,344,780
1,344,759
1,347,772
1,347,908
1,349,365
1,349,385
1,350,300
1,352,451
1,353,185
1,354,573
1,357,257
1,358,718
1,362,452
1,363,666
1,363,814
296: 1,328,516
1,330,941
1,346,368
1,355,943
1,359,469
298: 1,330,153
1,342,546
1,342,547
1,348,359
1,350,003
305: 1,334,276
311: 1,352,699
1,360,654
314: 1,336,564
315: 1,344,753
318: 1,339,907
1,344,752
1,348,206
1,348,207
320: 1,350,334
1,357,681
321: 1,339,902
335: 1,330,507
336: 1,340,698
1,348,717
337: 1,327,671
1,354,152
338: 1,331,290
1,338,548
1,351,027
1,352,219
1,352,926
1,354,142
339: 1,333,247

175— 341: 1,341,629
1,343,404
1,361,935
345: 1,327,340
1,355,622
352: 1,330,124
354: 1,326,972
1,328,597
1,355,529
355: 1,345,589
1,350,447
1,352,310
1,358,102
1,363,633
356: R. 14,891
1,331,068
1,331,077
1,336,894
1,337,915
1,342,995
1,345,712
1,347,910
1,351,061
1,352,360
1,360,752
357: 1,335,887
1,338,289
1,358,901
359: 1,332,757
360: 1,339,100
1,342,303
1,342,304
1,342,305
1,342,306
1,342,307
1,342,308
1,342,309
1,342,310
1,342,311
1,342,312
1,353,116
1,359,589
361: 1,331,089
1,331,896
1,334,041
1,335,803
1,337,080
1,337,885
1,338,884
1,347,769
1,351,042
362: 1,342,209
1,362,138
1,362,375
363: R. 14,816
1,329,897
1,348,794
1,349,892
1,349,907
1,357,223
1,358,713
364: 1,327,521
1,332,862
1,340,502
1,348,986
1,357,142
1,358,992
365: 1,355,524
1,357,942
1,359,903
367: 1,329,733
1,330,558
1,334,504
1,336,928
1,339,553
1,343,751
1,349,343
1,352,948
1,360,054
368: 1,341,958
369: 1,342,548
1,352,778
374: 1,354,897
375: 1,330,337
1,332,040
1,335,139
1,340,918
1,344,099
1,350,369
1,355,448
176— 1: 1,344,757
4: 1,362,303
7: 1,329,639
1,329,640
1,330,702
1,360,152
10: 1,340,499
12: 1,334,554
1,350,170
16: 1,341,581
1,348,350
1,352,860
21: 1,342,398

176— 31: 1,339,351
32: 1,339,333
34: 1,340,054
1,344,429
35: 1,359,134
36: 1,331,085
1,350,907
40: 1,331,301
1,339,998
1,341,966
1,357,724
41: 1,355,334
42: 1,343,037
1,361,710
45: 1,339,914
47: 1,333,608
51: 1,328,311
1,357,827
1,362,574
1,362,575
52: 1,333,665
103: 1,327,280
1,329,132
1,329,892
115: 1,344,938
118: 1,353,693
119: 1,330,532
1,339,111
1,362,140
132: 1,363,162
136: 1,334,820
177— 7: 1,327,124
1,328,454
1,332,322
1,333,298
1,336,519
1,339,559
1,351,729
1,352,081
1,360,635
100.1: 1,326,955
288: 1,349,400
311: 1,343,196
314: 1,336,306
1,347,495
1,360,677
1,364,048
316: 1,344,178
324: 1,344,654
326: 1,350,328
1,360,701
327: 1,337,299
1,340,343
1,340,537
1,345,199
1,352,946
1,353,783
1,355,077
1,356,150
329: 1,327,818
1,330,064
1,334,047
1,346,994
1,351,662
1,355,578
1,357,064
1,358,316
1,359,286
1,363,220
330: 1,343,524
336: 1,333,240
337: 1,329,013
1,335,272
1,341,735
1,342,049
1,342,788
1,352,874
1,354,099
338: 1,358,134
339: 1,327,837
1,328,245
1,328,269
1,335,240
1,336,795
1,338,170
1,347,421
1,352,781
1,357,875
342: 1,336,889
1,356,626
1,363,796
343: 1,333,014
1,343,256
346: 1,331,979
1,343,141
1,346,498
350: 1,339,566
1,362,553
351: 1,332,312
1,332,810
1,342,860
1,342,944
1,350,345

Digitized by Google

Classification of patents—Continued.

177— 351: 1,354,882
1,355,041
1,356,505
1,357,850
1,359,846
352: 1,330,059
1,342,579
1,348,825
1,349,305
353: 1,337,736
1,347,715
360: 1,351,422
367: R. 15,005
1,349,961
1,351,514
1,360,954
377: 1,363,246
378: 1,359,023
380: 1,354,814
381: 1,335,578
382: 1,356,598
178— 1: 1,356,260
2: 1,337,797
1,338,380
1,346,540
1,346,614
7: 1,329,088
13: 1,356,767
17: 1,328,086
1,341,998
1,360,231
17.5: R. 14,910
R. 14,921
1,332,961
1,359,463
20: 1,326,994
22: 1,352,116
1,356,546
1,356,701
23: 1,337,783
1,362,607
27: 1,354,057
1,362,039
28: 1,330,472
29: 1,330,787
1,362,587
32: 1,362,005
33: 1,339,824
1,348,430
34: 1,347,580
44: 1,328,326
1,333,111
1,357,979
45: 1,360,757
46: 1,334,321
1,339,793
47: 1,347,176
50: 1,333,452
51: 1,355,863
1,361,322
53: 1,333,000
1,333,000
58: 1,359,952
1,362,992
60: 1,356,892
62: 1,350,790
63: 1,334,122
1,336,414
1,347,049
1,351,989
1,352,873
67: 1,357,199
1,359,565
1,360,713
69: 1,362,048
71: 1,353,464
1,360,712
81: 1,347,849
82: 1,332,051
1,338,497
88: 1,327,352
1,337,748
1,339,949
1,339,950
1,339,951
1,358,138
92: 1,350,193
100: 1,329,005
101: 1,355,259
104: 1,341,510
110: 1,348,249
111: 1,346,476
115: 1,343,754
1,354,389
175: 1,332,976
179— 1: 1,350,022
1,351,775
1,356,403
2: 1,358,720
4: 1,340,942
1,356,019
1,361,486
1,362,613

179— 5: 1,335,707
1,344,701
1,349,531
1,349,904
1,350,188
6: 1,337,197
1,337,304
1,350,586
1,352,546
6.3: 1,330,019
1,332,222
1,340,260
1,348,780
1,362,454
6.4: 1,353,673
6.5: 1,349,373
1,358,945
9: 1,350,875
1,351,799
1,354,051
1,356,054
1,356,655
11: 1,359,913
15: 1,352,589
1,356,922
1,361,488
16: 1,338,350
1,339,575
1,340,035
17: R. 14,846
R. 14,963
1,329,287
1,338,370
1,351,531
1,352,217
18: R. 14,944
R. 14,954
1,327,805
1,330,046
1,330,464
1,330,999
1,332,217
1,332,226
1,332,275
1,334,447
1,336,008
1,337,309
1,337,310
1,337,324
1,337,699
1,337,713
1,337,714
1,337,715
1,337,753
1,338,318
1,339,175
1,340,983
1,340,984
1,340,997
1,342,792
1,342,902
1,343,462
1,343,714
1,343,903
1,343,989
1,344,195
1,344,822
1,345,054
1,346,098
1,347,069
1,347,584
1,348,585
1,349,381
1,350,982
1,352,005
1,354,005
1,355,894
1,355,634
1,355,635
1,355,917
1,355,983
1,356,039
1,356,043
1,359,940
1,360,738
1,361,980
1,363,268
23: 1,344,210
1,361,885
27: 1,330,200
1,330,220
1,330,226
1,330,417
1,330,483
1,333,026
1,333,027
1,334,077
1,334,125
1,334,294
1,334,300
1,334,307
1,334,308
1,334,311

179— 27: 1,334,735
1,334,766
1,334,767
1,337,482
1,337,671
1,337,681
1,337,710
1,337,711
1,337,712
1,337,740
1,337,782
1,339,010
1,340,940
1,340,979
1,340,982
1,341,473
1,342,241
1,342,242
1,342,260
1,342,823
1,343,489
1,345,016
1,345,879
1,348,209
1,351,800
1,351,876
1,352,660
1,355,927
1,356,010
1,356,164
1,356,704
1,359,482
1,362,020
1,362,096
1,362,126
1,362,596
1,363,334
27.5: 1,334,105
1,334,750
1,337,285
1,337,325
1,337,784
1,337,794
1,339,001
1,363,364
1,363,365
28: 1,334,755
1,342,835
29: 1,354,908
31: 1,345,852
1,356,256
32: R. 14,848
1,334,452
33: 1,333,758
35: 1,337,755
1,352,568
1,357,303
40: 1,333,596
1,335,789
41: 1,348,909
42: 1,337,301
43: 1,336,615
1,337,676
44: 1,354,891
1,356,181
46: 1,337,751
1,345,348
1,345,349
1,361,024
49: 1,330,202
1,358,182
1,358,758
1,363,219
50: 1,330,201
1,337,297
1,354,020
1,355,926
51: 1,337,858
1,359,516
1,360,682
1,361,929
54: 1,353,065
58: 1,353,910
65: 1,332,208
72: 1,330,474
1,337,471
1,354,347
73: 1,329,004
1,330,467
1,337,752
1,337,976
1,352,970
1,353,300
1,353,872
76: 1,330,221
1,330,252
78: 1,329,842
81: 1,327,412
1,355,191
1,357,296
82: 1,341,232
84: 1,329,001
1,360,722

179— 90: 1,327,500
1,327,622
1,334,080
1,337,198
1,337,314
1,341,801
1,353,517
1,353,601
1,353,612
1,355,971
1,360,113
91: 1,330,258
1,330,565
1,356,622
93: 1,337,754
99: 1,330,234
100: 1,337,692
1,339,814
1,341,007
1,341,105
1,342,244
100.1: 1,329,928
1,335,978
1,344,918
1,360,179
100.2: 1,358,053
101: 1,338,888
1,351,356
103: 1,340,955
1,356,190
104: 1,336,497
106: 1,333,744
107: 1,343,717
1,351,254
1,356,634
109: 1,339,518
114: 1,330,214
1,340,471
1,359,061
1,362,008
115: 1,330,491
1,356,156
119: 1,331,469
1,350,594
122: 1,330,391
1,341,997
1,342,581
1,342,582
1,352,939
123: 1,335,592
124: 1,341,837
1,354,229
146: 1,336,859
147: 1,329,942
1,334,319
1,341,358
1,341,855
149: 1,332,133
1,333,805
1,336,253
151: 1,347,850
156: 1,329,029
1,329,658
1,332,873
1,354,524
157: 1,329,031
1,331,053
1,336,929
1,345,839
1,362,597
164: 1,337,892
1,350,737
167: 1,337,741
1,341,280
170: 1,327,185
1,351,863
1,352,786
1,352,828
1,353,031
1,353,637
1,355,147
1,355,957
1,361,510
1,364,013
171: 1,328,327
1,337,694
1,343,306
1,343,307
1,343,308
1,349,252
1,350,752
1,353,145
1,357,264
175: 1,355,897
1,355,898
1,360,331
1,360,332
1,361,928
176: 1,333,117
1,341,719
1,356,176
179: 1,361,590

179— 181: 1,347,175
182: 1,328,620
1,340,807
185: 1,329,557
1,331,345
1,345,734
1,347,710
1,354,780
187: 1,331,669
1,334,093
188: 1,345,049
189: 1,332,564
190: 1,328,996
180— 1: 1,334,475
1,334,811
1,335,856
1,337,275
1,340,024
1,343,687
1,345,498
1,346,723
1,347,337
1,347,818
1,348,324
1,350,282
1,350,283
1,350,284
1,354,672
1,355,895
1,356,473
1,356,474
1,356,475
1,357,878
1,359,878
3: 1,334,788
1,363,071
4: 1,342,410
1,344,571
6: 1,335,461
1,336,448
1,345,062
1,348,436
1,350,069
1,354,103
7: 1,345,727
1,354,826
1,357,442
8: 1,334,362
1,347,244
1,351,752
1,352,286
1,356,964
9: R. 14,858
1,329,314
1,330,697
1,331,087
1,331,088
1,331,550
1,331,869
1,336,130
1,336,132
1,336,133
1,336,890
1,336,961
1,337,905
1,338,777
1,340,789
1,356,718
9.1: 1,340,514
1,341,851
1,344,353
1,348,315
1,348,558
1,353,617
1,353,945
1,355,853
1,356,497
1,356,679
1,356,744
1,358,575
1,362,802
1,363,756
9.2: R. 14,938
1,342,412
1,344,360
1,344,366
1,344,368
1,356,615
1,356,678
1,356,680
1,356,734
1,356,945
1,360,022
1,361,875
10: 1,357,571
11: 1,337,437
1,341,379
1,355,826
12: R. 14,985
1,331,184
1,338,707
1,342,523
1,343,303

180— 12: 1,346,771
1,361,964
1,363,612
13: 1,330,084
1,338,837
14: 1,327,376
1,335,237
1,338,919
1,340,112
1,342,752
1,342,764
1,343,783
1,347,589
1,348,877
1,349,812
1,359,564
15: 1,334,923
1,337,672
16: 1,327,773
1,332,977
1,333,963
1,335,886
1,336,305
1,336,653
1,342,139
1,346,778
1,350,006
1,350,889
1,363,022
17: 1,327,206
1,331,141
1,331,185
1,334,421
1,336,643
1,338,754
1,338,835
1,340,306
1,341,162
1,351,942
1,353,606
1,355,178
1,356,601
1,357,528
1,358,730
1,358,997
1,359,294
1,360,078
1,362,076
1,363,330
18: 1,333,374
1,349,074
19: 1,344,804
1,348,192
1,363,910
20: 1,338,510
1,345,109
21: 1,327,485
1,334,201
1,336,823
1,348,568
1,349,791
1,353,923
1,360,957
22: 1,337,510
1,350,071
1,354,714
1,357,192
24: 1,332,949
25: 1,330,733
1,331,492
1,341,537
1,347,526
1,348,720
1,349,930
1,354,618
1,356,658
26: 1,332,561
1,335,782
1,342,765
1,342,779
1,346,644
1,346,914
1,346,915
1,356,070
27: 1,333,121
1,335,614
1,338,680
1,348,003
1,348,385
29: 1,348,464
1,353,366
30: 1,362,024
32: 1,339,387
1,341,181
33: 1,343,788
34: 1,355,715
41: R. 14,801
1,336,057
1,337,874
1,340,587
1,348,333
1,353,393
1,354,545

Digitized by Google

Classification of patents—Continued.

180— 42: 1,342,861
1,347,468
43: R. 14,808
1,331,205
1,333,908
1,340,759
1,343,358
1,359,868
44: 1,351,084
45: R. 14,850
46: 1,353,411
48: 1,361,047
49: 1,332,579
1,333,512
1,342,938
1,345,166
1,356,789
50: 1,331,197
1,335,489
1,339,124
1,343,979
1,349,065
1,353,192
1,353,848
52: 1,340,169
53: 1,328,839
1,331,518
1,332,589
1,340,833
1,350,347
1,350,668
1,352,497
1,355,501
1,355,537
1,358,212
54: 1,331,478
1,342,427
1,342,934
1,343,464
1,347,163
1,353,156
1,353,245
56: 1,358,117
57: 1,350,460
1,352,294
59: 1,352,798
62: 1,338,042
64: 1,326,960
1,332,240
1,332,840
1,333,418
1,345,204
1,349,418
1,351,199
1,358,670
1,363,336
67: 1,335,090
1,339,475
68: 1,334,269
1,334,315
1,342,191
1,348,710
1,355,803
1,357,397
1,361,066
69: 1,339,269
1,339,822
1,344,095
1,346,325
1,356,229
70: 1,327,811
1,328,346
1,336,008
1,338,383
1,339,688
1,340,834
1,340,932
1,342,143
1,346,530
1,349,997
1,360,770
1,362,520
71: 1,331,810
1,350,642
72: 1,341,306
73: 1,339,271
1,353,029
1,353,886
1,354,462
75: 1,342,634
1,349,249
77: 1,329,711
1,337,007
1,337,008
1,338,534
1,347,296
1,347,502
1,350,450
1,355,336
1,355,850
R. 14,986
1,358,874
1,358,974
79: 1,332,813
1,345,821
1,360,710
80: 1,327,611
1,355,152
1,355,851
1,355,981
81: 1,334,059
1,339,125
1,354,148
82: 1,331,198
1,343,049
1,347,641
1,348,090
1,354,352
1,354,398
1,355,490
1,359,877
1,361,987
83: R. 14,831
1,340,305
84: 1,342,401
88: 1,330,350
1,358,332
89: 1,328,909
1,329,998
1,339,325
1,343,519
1,352,066
1,360,958
90: 1,334,372
1,335,720
1,338,881
1,339,568
1,347,218
1,349,715
1,353,427
92: 1,354,108
104: 1,346,280
181— 0. 5: 1,328,059
1,345,717
1,346,649
1,346,721
1,354,299
1,356,359
1,360,330
5: 1,348,538
1,348,556
1,348,826
1,348,828
1,350,762
24: 1,329,430
1,340,399
1,340,800
1,344,655
1,350,767
1,363,029
26: 1,329,925
1,341,795
1,348,856
1,355,598
27: 1,327,118
1,328,412
1,330,469
1,332,789
1,340,831
1,342,284
1,344,307
1,346,491
1,349,286
1,352,115
1,352,991
1,354,961
1,356,351
1,356,952
1,356,983
1,358,706
1,358,883
1,360,577
1,361,164
1,362,926
1,363,482
1,363,946
31: 1,330,402
1,341,154
1,342,663
32: 1,334,435
1,355,552
1,355,600
182— 2: 1,344,249
4: 1,349,078
9: 1,327,278
10: 1,348,945
1,349,734
1,360,630
1,363,792
11: 1,336,280
12: 1,327,116
1,338,079
1,338,432
1,345,549
1,347,550
1,347,551
182— 12: 1,356,530
1,360,651
13: 1,329,015
1,363,535
14: 1,328,103
1,351,677
18: 1,358,566
183— 3: 1,345,895
4: 1,342,867
1,344,670
1,354,482
1,360,073
7: 1,329,237
1,329,825
1,332,510
1,332,981
1,333,790
1,334,231
1,337,488
1,337,489
1,339,471
1,339,480
1,342,651
1,343,285
1,343,482
1,344,330
1,345,790
1,349,362
1,356,462
1,357,466
1,357,886
1,358,031
1,358,032
1,362,128
8: 1,345,478
1,359,340
1,363,331
1,363,859
1,363,860
10: 1,329,115
12: 1,357,140
19: 1,355,504
23: 1,333,855
1,359,392
1,359,393
1,362,251
24: 1,345,681
1,349,608
32: 1,359,647
34: 1,354,542
37: 1,327,287
39: 1,350,576
40: 1,327,494
1,347,680
44: 1,351,661
1,357,390
1,358,333
1,363,753
45: 1,339,726
51: 1,356,061
52: 1,356,086
53: 1,349,480
55: 1,336,600
1,341,129
58: 1,326,901
1,345,405
60: 1,330,272
62: 1,339,495
1,339,498
1,355,761
63: 1,348,966
1,349,151
65: 1,331,521
1,337,564
70: 1,333,323
71: 1,350,879
72: 1,329,138
73: 1,337,020
74: 1,328,868
75: 1,337,984
1,351,433
77: 1,339,757
1,340,058
1,360,929
79: 1,333,325
1,338,143
82: 1,344,146
83: 1,344,585
1,353,431
1,354,878
90: 1,334,927
99: 1,347,374
102: 1,362,025
103: 1,328,642
1,356,201
105: 1,336,870
109: 1,335,551
111: 1,328,889
113: 1,360,349
114: 1,329,737
1,329,817
1,329,818
1,329,844
183— 114: 1,329,859
1,331,225
1,335,758
1,356,196
1,357,201
1,357,202
1,358,030
115: 1,390,853
1,363,659
118: 1,359,047
184— 1: 1,331,136
1,331,962
1,337,408
1,339,338
1,339,646
1,339,872
1,342,365
1,350,196
1,351,174
1,356,111
1,360,029
3: 1,329,406
1,330,551
1,334,065
4: 1,341,080
5: 1,350,309
6: 1,327,665
1,328,015
1,329,038
1,329,388
1,331,038
1,331,771
1,331,907
1,334,844
1,337,031
1,338,310
1,339,330
1,339,798
1,341,866
1,342,063
1,342,004
1,346,116
1,347,019
1,347,854
1,348,664
1,349,676
1,350,559
1,352,487
1,354,852
1,355,229
1,358,064
1,359,944
1,361,458
1,361,521
1,362,754
1,363,390
1,363,833
7: 1,352,850
10: 1,332,120
11: 1,327,779
1,331,996
1,333,814
1,334,547
1,337,013
1,337,381
1,352,298
1,357,301
1,362,486
1,363,789
13: 1,331,700
1,336,076
1,343,376
1,345,005
1,345,903
1,346,840
1,347,685
1,354,663
1,363,501
18: 1,332,048
1,342,373
1,347,959
1,360,497
21: 1,327,043
24: 1,342,605
27: 1,332,717
1,343,677
28: 1,359,884
29: 1,348,769
31: 1,329,717
37: 1,337,494
38: 1,328,573
1,338,554
1,345,434
1,347,825
1,348,154
1,348,362
1,359,116
1,359,883
1,361,944
45: 1,327,338
1,331,651
1,332,440
1,332,453
184— 45: 1,332,920
1,347,826
1,350,506
1,351,841
1,353,171
1,357,082
1,358,493
48: 1,378,959
1,336,135
1,337,432
1,337,717
1,341,411
1,345,953
1,347,472
1,352,064
1,357,885
49: 1,331,698
50: 1,337,179
1,350,391
1,360,207
54: 1,339,540
55: 1,328,388
1,348,551
56: 1,351,807
1,353,081
1,356,166
58: 1,333,451
1,338,385
1,353,055
60: 1,342,077
64: 1,348,559
1,349,098
1,355,668
1,358,153
65: 1,343,104
1,351,706
66: 1,352,986
68: 1,334,899
69: 1,337,087
1,339,619
1,344,078
1,354,765
1,357,284
1,357,616
1,360,768
70: 1,331,894
1,331,895
1,335,477
1,338,914
1,345,843
1,351,610
1,356,452
76: 1,353,951
85: 1,360,418
86: 1,359,151
88: 1,341,190
1,359,069
89: 1,341,892
91: 1,333,412
1,350,721
1,352,847
1,361,375
1,363,812
92: 1,356,355
94: 1,351,922
95: 1,331,663
96: 1,346,942
102: 1,360,845
103: 1,328,843
1,340,687
1,350,643
1,355,194
1,355,195
1,362,777
104: 1,328,906
1,330,445
1,332,970
1,336,368
1,356,524
105: 1,335,521
1,351,338
1,353,607
106: 1,334,088
185— 5: 1,328,384
9: 1,328,402
26: 1,358,774
27: 1,359,994
30: 1,340,013
32: 1,358,426
33: 1,352,936
37: 1,331,681
1,335,566
1,339,934
1,343,584
1,347,603
1,351,727
1,355,585
1,361,174
1,361,175
1,361,176
1,362,480
1,362,653
38: 1,342,857
185— 40: 1,327,567
1,332,870
1,358,602
1,359,464
41: 1,329,091
1,337,113
1,344,291
43: 1,353,106
1,355,703
45: 1,333,353
1,337,385
1,345,122
1,347,079
1,350,754
1,363,484
46: 1,329,800
186— 1: 1,330,890
1,334,587
1,337,050
1,347,936
1,353,996
1,360,657
14: 1,343,801
1,347,496
1,347,498
15: 1,347,497
21.3: 1,345,111
32: 1,346,676
34: 1,336,551
187— 1: 1,348,138
1,349,450
3: 1,349,369
1,349,647
4: 1,349,413
6: 1,362,500
9: 1,330,927
1,356,281
9.5: 1,355,690
10: 1,338,127
11: 1,327,513
1,340,458
1,342,982
1,344,271
1,344,272
1,360,917
12: 1,358,062
17: 1,326,984
1,336,949
20: 1,352,632
25: 1,335,719
29: 1,347,711
1,352,742
1,362,880
31: 1,328,309
1,330,411
1,353,851
1,356,994
32: 1,358,734
35: R. 14,853
47: 1,332,365
1,356,998
1,357,014
48: 1,343,193
1,353,352
49: 1,336,748
1,344,266
1,356,108
52: 1,330,412
1,358,776
54: 1,329,712
1,342,332
58: 1,341,863
1,341,864
1,343,328
59: 1,354,596
61: 1,338,867
1,340,664
1,344,430
1,352,304
1,358,592
1,359,641
62: 1,335,849
72: 1,334,116
R. 14,864
73: 1,336,664
75: 1,343,118
83: 1,341,112
86: 1,348,201
87: 1,336,170
88: 1,360,653
90: 1,348,472
91: 1,351,827
97: 1,337,943
98: 1,346,274
188— 1: 1,328,886
1,334,862
1,339,679
3: 1,328,491
1,332,428
1,336,285
1,354,947
4: 1,327,823
1,332,408

Digitized by Google

Classification of patents—Continued.

188— 5: 1,338,036
1,343,116
1,350,726
1,351,750
10: 1,333,937
11: 1,330,395
12: 1,336,909
1,336,956
1,359,350
14: 1,333,866
15: 1,335,291
16: 1,339,524
17: 1,333,320
18: 1,339,895
1,348,452
1,353,375
1,353,806
1,360,089
21: 1,361,509
22: 1,335,185
1,340,168
23: 1,348,428
24: 1,328,092
1,329,009
1,329,010
1,348,382
26: 1,345,165
28: 1,335,190
31: 1,346,949
41: 1,338,225
1,346,171
43: 1,340,598
47: 1,335,495
48: 1,336,231
49: 1,328,341
51: 1,329,008
53: 1,336,435
55: 1,330,282
57: 1,328,494
58: 1,328,138
1,330,140
1,344,309
59: 1,341,830
62: 1,355,337
64: 1,346,242
1,354,125
65: 1,335,594
1,337,786
67: 1,362,990
1,363,203
70: 1,327,909
1,328,315
1,334,123
1,334,124
1,335,184
1,335,186
1,335,187
1,335,188
1,335,189
1,335,214
72: 1,351,006
74: 1,354,607
77: 1,344,003
1,347,347
1,347,990
78: 1,336,906
1,337,815
79: 1,346,149
81: 1,356,486
82: 1,328,594
1,328,595
1,328,596
1,347,303
1,361,089
89: 1,350,942
92: 1,338,302
97: 1,347,017
1,355,217
112: 1,346,628
1,350,318
119: 1,340,743
1,353,862
127: 1,337,948
130: 1,338,556
1,339,780
1,343,970
131: 1,343,973
140: 1,342,381
148: 1,352,586
151: 1,343,389
1,362,372
152: 1,341,531
1,360,505
171: 1,348,106
1,358,339
172: 1,359,700
174: 1,342,407
1,358,379
185: 1,352,060
187: 1,352,223
195: 1,344,129
199: 1,336,522
1,341,321

188— 199: 1,347,634
204: 1,341,617
1,348,331
1,363,007
209: 1,363,947
210: 1,354,372
1,357,336
213: 1,339,413
1,339,414
1,339,415
1,339,416
1,340,008
1,340,009
1,340,010
1,346,765
1,352,570
1,355,295
1,357,369
1,363,529
215: 1,349,407
216: 1,360,634
218: 1,345,613
219: 1,340,007
232: 1,354,650
243: 1,349,534
250: 1,336,882
251: 1,349,126
1,349,127
1,349,128
1,349,129
259: 1,342,043
1,350,985
1,351,927
1,357,103
1,362,495
189— 1: 1,330,192
1,336,324
1,342,021
1,352,991
1.5: 1,363,407
2: 1,340,561
1,351,435
1,356,950
3: 1,336,945
1,338,482
1,338,483
7: 1,329,572
9: 1,354,998
1,356,151
1,356,346
9.5: 1,354,038
11: 1,337,487
12: 1,363,852
14: 1,342,828
15: 1,328,461
1,349,635
16: 1,359,845
17: 1,331,030
19: 1,330,375
21: 1,341,335
21.3: 1,363,926
22: 1,334,178
22.5: 1,338,287
23: 1,330,157
1,342,947
1,345,196
1,348,063
1,353,073
1,359,891
1,360,501
24: 1,328,026
1,328,027
1,332,069
28: 1,329,026
1,333,842
1,341,318
1,357,572
1,362,352
29: 1,329,492
1,343,543
1,347,865

189— 36: 1,358,918
37: 1,331,412
1,344,229
1,351,614
1,351,615
1,360,720
1,360,774
1,362,814
38: 1,335,104
1,362,438
1,362,439
43: 1,340,243
1,343,739
44: 1,361,918
45: 1,332,946
1,334,925
46: 1,328,214
1,328,918
1,339,305
1,342,482
1,343,545
1,344,540
1,347,198
1,348,623
1,354,929
1,356,000
1,358,373
1,361,586
1,363,717
1,363,774
1,363,887
47: 1,332,111
1,349,519
49: 1,331,349
1,343,757
1,358,977
50: 1,345,504
51: 1,342,400
56: 1,345,447
1,357,819
58: 1,332,942
1,353,333
60: 1,330,224
62: 1,339,973
1,359,555
1,359,556
1,359,557
1,359,558
67: 1,351,083
71: 1,340,312
74: 1,340,311
75: 1,345,069
76: 1,327,441
1,335,301
1,335,492
1,354,321
77: 1,333,508
1,347,706
1,349,684
1,350,544
78: 1,330,605
1,334,398
1,351,058
79: 1,346,094
81: 1,351,085
82: 1,333,759
1,334,393
1,335,601
1,342,818
1,346,426
83: 1,345,002
84: 1,327,711
90: 1,332,651
1,346,933
1,349,476
1,351,845
91: 1,330,233
92: 1,343,384
1,345,650
1,351,912

190— 1: 1,345,416
1,363,247
4: 1,332,666
11: 1,332,635
1,339,028
1,357,623
1,361,953
12: 1,329,080
1,334,580
1,337,449
1,348,220
1,349,687
1,361,101
13: 1,332,012
1,339,533
1,339,534
1,347,390
1,348,064
1,361,181
1,361,748
1,363,134
14: 1,344,872
15: 1,344,408

190— 16: 1,336,899
17: 1,351,209
27: 1,353,814
30: 1,341,125
33: 1,339,653
36: 1,328,470
1,330,280
43: 1,341,404
44: 1,341,099
48: 1,359,202
49: 1,329,194
52: 1,354,011
53: 1,346,495
57: 1,342,677
1,350,649
1,357,554
58: 1,333,618
1,343,195
191— 11: 1,345,093
12: 1,360,686
14: 1,343,475
22: 1,350,856
32: 1,334,877
34: 1,363,078
35: 1,352,105
1,356,603
36: 1,358,223
38: 1,341,878
39: 1,327,463
1,332,172
1,354,505
1,357,215
1,363,337
41: 1,336,503
1,336,504
42: 1,355,605
1,360,006
1,364,026
1,364,028
43: 1,342,034
1,354,503
1,355,614
1,364,027
44: 1,357,332
1,357,454
49: 1,354,789
1,354,790
50: 1,359,503
55: 1,352,474
57: 1,357,622
58: 1,363,995
59: 1,343,592
1,353,381
1,356,606
1,357,630
60: 1,354,060
1,358,645
61: 1,330,177
1,355,575
64: 1,355,946
65: 1,334,943
1,333,607
1,354,134
73: 1,332,891
1,355,561
75: 1,336,966
78: 1,356,045
80: 1,357,642
82: 1,341,284
83: 1,338,193
1,356,369
84: 1,347,239
88: 1,350,243
1,353,262
1,358,439
1,358,440
1,358,574
91: 1,336,109
1,362,197
1,362,198
95: 1,339,221
1,353,507
1,353,508
1,360,817
192— 1: 1,327,880
1,327,935
1,332,229
1,336,000
1,341,673
1,345,327
1,347,811
1,354,521
1,355,522
1,360,864
4: R. 14,806
5: 1,344,597
1,351,135
1,355,280
6: 1,327,090
1,333,689
7: 1,327,506
1,330,931
1,330,965

192— 7: 1,333,440
1,338,252
1,338,298
1,338,788
1,339,801
1,342,270
1,345,100
1,345,897
1,355,139
1,361,511
8: 1,334,103
1,348,695
1,348,926
1,356,650
9: 1,330,198
1,335,543
1,341,796
1,346,078
1,361,797
10: 1,327,576
1,328,022
1,339,047
1,340,885
1,341,635
1,344,361
1,344,399
11: 1,327,767
1,338,891
1,340,559
1,351,240
13: 1,335,748
14: 1,361,213
18: R. 14,933
1,334,864
1,336,749
1,344,726
1,347,315
1,347,322
1,349,161
1,349,229
1,354,228
1,357,756
1,360,394
1,360,807
20: 1,330,121
1,330,407
1,361,757
22: 1,337,634
1,356,557
1,362,011
59: 1,363,810
63: 1,361,585
64: 1,362,591
66: 1,359,407
67: 1,355,659
77: 1,360,320
116: 1,359,728
1,361,173

193— 1: 1,326,903
1,330,596
1,335,221
1,336,304
1,339,904
1,342,117
1,343,417
1,344,013
1,345,088
1,346,460
1,351,554
1,352,718
1,352,766
1,355,184
1,358,255
1,358,913
1,362,268
2: 1,328,099
1,328,464
1,330,116
1,333,006
1,334,458
1,337,351
1,342,684
1,342,975
1,343,369
1,346,339
1,350,774
1,350,777
1,354,553
1,355,091
1,357,315
1,357,977
1,358,497
1,359,946
1,360,212
1,361,251
1,363,395
1,363,533
3: 1,331,464
1,337,896
1,341,607
1,346,990
1,348,671
1,354,220

193— 3: 1,361,832
1,363,930
4: R. 14,977
1,330,967
1,331,484
1,332,356
1,332,900
1,339,646
1,344,006
1,344,246
1,345,136
1,345,301
1,345,454
1,348,599
1,352,263
1,352,607
1,354,493
1,359,582
1,362,651
6: 1,332,426
1,343,184
1,346,680
1,353,335
1,353,336
1,357,919
7: 1,342,786
1,352,312
8: 1,327,053
1,327,436
1,329,914
1,330,813
1,332,292
1,334,454
1,335,076
1,335,228
1,335,697
1,339,089
1,343,799
1,345,634
1,346,390
1,348,849
1,351,215
1,351,953
1,352,197
1,352,262
1,352,329
1,353,142
1,353,842
1,356,733
1,357,262
1,358,024
1,358,167
1,360,886
1,361,294
1,361,653
1,362,034
1,362,889
10: 1,328,750
1,329,018
1,330,838
1,331,007
1,335,205
1,337,738
1,339,977
1,340,164
1,348,829
1,351,572
13: 1,339,060
1,342,189
1,363,333
14: 1,327,469
1,338,514
1,338,727
1,339,206
1,339,627
1,344,396
1,347,493
1,352,996
1,353,201
1,362,617
15: 1,361,302
16: 1,346,020
1,353,841
18: 1,335,270
19: 1,331,020
1,340,574
1,346,678
20: 1,340,253
21: 1,340,606
1,338,045
22: 1,334,929
23: 1,344,171
1,360,717
24: 1,327,672
1,330,099
1,333,709
1,333,885
1,333,886
1,337,031
1,339,486
1,344,768
1,346,314
1,349,844

Digitized by Google

Classification of patents—Continued.

193— 24: 1,355,180
1,357,476
26: 1,327,296
1,339,834
1,346,650
1,357,256
27: 1,353,008
1,363,469
28: 1,332,090
1,351,791
29: 1,329,801
1,332,006
1,333,705
1,339,338
1,355,308
1,358,446
1,359,386
1,362,488
31: R. 14,854
R. 14,855
1,338,975
1,338,976
33: 1,343,675
38: 1,335,706
1,349,354
42: 1,353,873
43: 1,334,643
44: 1,342,456
45: 1,334,223
1,360,805
46: 1,328,747
1,359,161
48: 1,336,788
1,341,238
1,342,598
1,346,381
1,357,387
1,362,849
49: 1,349,749
1,361,849
50: 1,359,163
51: 1,345,172
52: 1,333,821
1,360,010
1,361,273
53: 1,342,341
55: 1,335,877
1,352,811
1,362,910
56: 1,337,356
1,340,507
57: 1,355,232
58: 1,330,639
1,336,570
1,354,676
1,357,693
60: 1,343,378
1,359,431
1,362,345
64: 1,356,167
1,363,609
194— 1: 1,327,678
1,335,493
1,341,921
1,351,589
3: 1,355,058
4: 1,335,966
6: 1,344,251
9: 1,331,036
1,341,534
1,341,749
10: 1,348,876
18: 1,357,631
19: 1,338,543
20: 1,335,145
37: 1,334,299
1,342,858
47: 1,333,332
51: 1,348,768
54: 1,347,831
57: 1,336,389
1,349,953
59: 1,341,433
61: 1,337,539
1,343,999
63: 1,327,058
1,336,514
1,347,683
66: 1,354,653
74: 1,344,484
1,351,609
75: R. 14,925
78: 1,336,960
79: 1,336,478
80: 1,329,542
1,336,743
1,348,012
1,351,590
82: 1,347,416
1,355,456
84: 1,353,223
85: 1,344,769
92: 1,347,742

194— 93: 1,340,174
94: 1,350,742
1,356,750
95: 1,363,986
97: 1,354,647
1,354,648
102: R. 14,905
195— 1: R. 14,889
1,328,888
1,333,457
1,338,803
1,343,587
1,345,437
1,351,521
1,351,522
6: 1,350,254
13: 1,328,259
1,362,488
1,363,485
32: 1,328,079
196— 1: 1,327,845
1,335,773
1,347,543
3: 1,328,522
1,335,438
1,335,767
1,335,772
1,337,287
1,340,793
1,345,133
1,345,134
1,348,264
1,348,268
1,349,815
1,352,916
1,352,917
4: 1,329,852
1,349,817
5: 1,336,260
6: 1,359,468
8: 1,327,247
1,329,450
9: 1,359,931
12: 1,351,266
13: 1,361,769
14: 1,331,909
1,336,357
1,340,532
1,347,667
16: 1,327,184
19: 1,341,517
1,357,278
1,361,005
20: 1,330,014
21: 1,327,572
1,329,739
1,343,100
22: 1,327,354
24: 1,351,265
25: 1,327,263
1,328,680
1,330,008
1,332,290
1,332,849
1,333,964
1,334,731
1,335,768
1,335,769
1,335,770
1,335,771
1,336,993
1,337,144
1,340,427
1,341,975
1,343,674
1,344,258
1,345,452
1,345,740
1,346,797
1,346,798
1,347,544
1,347,668
1,347,664
1,348,265
1,348,266
1,348,267
1,348,606
1,348,766
1,349,294
1,349,794
1,349,816
1,351,151
1,351,459
1,353,316
1,353,638
1,355,311
1,355,312
1,356,208
1,356,878
1,357,276
1,357,277
1,358,174
1,359,614
1,360,973

196— 25: 1,362,105
1,362,160
1,363,313
1,363,487
26: 1,330,844
1,333,354
1,336,450
1,337,523
1,339,727
1,340,889
1,342,790
1,344,671
1,351,047
1,362,127
1,363,784
27: 1,341,437
1,345,132
28: 1,327,271
1,332,359
197— 1: 1,334,758
1,336,151
1,341,131
1,349,890
1,352,229
4: 1,356,277
5: 1,339,078
1,340,469
1,340,925
1,341,028
1,346,605
1,350,398
6: 1,332,632
6.1: 1,329,087
6.2: 1,328,773
1,353,437
1,353,618
6.4: 1,333,105
1,333,106
1,333,107
1,333,108
1,335,201
1,337,006
1,338,366
1,341,076
1,350,428
1,350,459
1,356,386
6.5: 1,340,428
1,340,429
6.7: 1,351,353
8: 1,327,840
9: 1,332,861
1,339,346
10: 1,339,369
11: 1,347,290
12: 1,355,089
14: 1,328,736
17: 1,345,510
20: 1,357,514
1,357,515
22: 1,337,563
1,340,864
1,341,424
1,349,864
1,355,820
26: 1,334,012
1,357,224
1,357,225
27: 1,330,063
1,342,197
1,355,819
1,356,652
28: 1,356,826
31: 1,356,825
33: 1,328,626
36: 1,357,573
1,359,604
46: 1,328,158
47: 1,337,318
1,352,405
60: 1,327,908
1,351,355
1,356,282
63: 1,351,327
64: 1,353,926
1,357,090
65: 1,360,789
1,363,619
66: 1,342,940
69: 1,332,972
1,344,837
70: 1,355,395
72: 1,335,956
74: 1,332,371
82: 1,332,975
1,342,466
1,342,489
1,342,490
1,362,696
83: 1,333,825
84: 1,357,557
1,358,785
85: 1,335,993

197— 86: 1,341,350
87: 1,337,977
88: 1,356,827
1,356,884
91: 1,342,941
1,351,993
97: 1,342,186
1,347,032
100: 1,336,122
106: 1,331,689
108: 1,345,894
113: 1,349,107
1,350,029
114: 1,340,900
1,357,194
1,359,501
1,363,191
122: 1,360,747
126: 1,333,685
1,348,487
1,349,015
1,349,016
1,349,109
1,351,454
1,356,893
1,357,193
1,357,195
1,362,204
1,362,538
1,362,547
1,363,197
1,363,294
1,363,682
127: 1,331,768
1,332,263
1,336,453
1,336,454
1,336,536
1,250,681
1,351,081
1,362,079
133: 1,333,931
1,362,544
135: 1,340,488
1,342,174
1,348,946
1,349,174
138: 1,336,797
139: 1,327,075
1,343,509
1,361,104
140: 1,340,542
1,347,097
147: 1,333,690
1,334,219
1,347,333
151: 1,338,699
1,352,124
153: 1,346,607
157: 1,351,812
1,354,298
160: 1,354,329
1,362,098
164: 1,363,509
171: 1,337,980
1,346,901
176: 1,330,878
1,347,757
1,349,824
1,356,158
1,362,071
177: 1,345,467
1,347,197
1,349,244
1,356,157
1,356,926
179: 1,333,356
180: 1,362,761
181: 1,353,133
183: 1,344,304
1,355,365
186: 1,331,441
1,331,442
1,339,906
1,342,513
1,355,818
1,356,812
1,356,813
187: 1,350,000
1,351,428
189: 1,333,166
1,338,565
1,353,939
1,359,445
199— 1: 1,345,286
1,355,879
12: 1,362,860
16: 1,347,745
1,363,066
18: 1,345,660
1,347,744
1,347,746
1,347,747

199— 20: 1,352,965
28: 1,331,343
31: 1,331,655
1,342,596
33: 1,342,980
1,349,488
34: 1,334,098
40: 1,359,518
44: 1,347,638
45: 1,338,628
1,356,786
46: 1,338,627
1,351,288
47: 1,340,613
1,362,589
55: 1,342,595
56: 1,337,358
57: 1,343,171
1,360,881
1,363,577
58: 1,340,831
1,353,888
59: 1,355,241
1,361,030
61: 1,358,972
63: 1,328,050
1,332,824
64: 1,328,146
1,350,793
77: 1,328,257
1,361,534
80: 1,352,644
84: 1,364,045
92: 1,355,880
95: 1,356,450
96: 1,363,042
200— 1: 1,361,006
1,363,055
3: 1,336,064
1,338,825
4: 1,347,859
1,353,580
5: 1,349,818
6: 1,331,783
1,332,215
1,341,668
1,347,408
1,351,184
1,354,191
1,354,193
1,360,019
1,361,966
1,362,003
1,363,658
8: 1,332,025
1,332,066
1,336,138
1,339,911
1,349,380
1,352,896
9: 1,336,560
1,336,574
1,336,596
1,348,397
10: 1,355,497
11: 1,339,754
14: 1,336,582
15: 1,350,688
16: 1,350,924
17: 1,330,628
1,333,241
1,336,583
1,339,906
1,343,214
1,343,219
1,343,232
1,352,247
1,352,249
1,357,249
18: 1,338,607
1,341,143
1,343,218
1,347,885
1,362,357
19: 1,349,327
1,350,759
1,351,818
21: 1,356,532
22: 1,332,758
1,348,368
1,363,512
23: 1,336,296
1,351,714
24: 1,334,803
1,337,329
1,337,966
1,338,049
1,338,989
1,340,121
1,344,395
1,345,402
1,355,682
25: 1,332,568

200— 25: 1,363,835
26: 1,332,637
1,333,587
1,333,711
1,334,177
1,338,015
1,347,065
1,347,370
1,347,636
1,349,316
1,349,523
1,349,726
1,351,648
1,351,963
1,353,892
1,354,655
1,356,968
1,357,455
1,362,015
27: 1,340,857
1,348,058
1,356,875
1,361,256
28: 1,330,984
1,357,532
30: 1,333,202
1,336,933
1,337,456
1,338,360
1,338,971
1,348,185
1,349,783
31: 1,335,130
1,336,350
1,341,020
1,350,898
1,354,888
1,357,684
33: 1,337,161
34: 1,353,850
36: 1,332,020
1,346,114
1,350,389
37: 1,340,039
38: 1,337,022
39: 1,358,554
40: 1,346,858
41: 1,339,236
42: 1,329,930
1,333,874
1,334,371
1,344,958
1,351,973
43: 1,328,729
1,338,099
1,339,302
1,340,230
1,356,430
44: 1,327,259
1,330,137
1,333,090
1,335,593
1,339,008
1,348,187
1,360,411
1,361,450
45: 1,329,093
47: 1,345,899
48: 1,334,848
1,337,105
1,345,793
1,350,107
1,357,750
50: R. 14,942
1,328,072
1,328,606
1,335,045
1,337,895
1,340,930
1,342,549
1,342,550
1,347,345
1,349,184
1,349,573
1,350,486
1,351,022
1,354,760
1,354,762
1,354,763
1,355,566
1,357,726
1,357,762
1,360,079
1,361,684
1,363,151
1,363,303
1,363,938
52: 1,327,602
1,329,528
1,331,650
1,335,470
1,337,217
1,339,844

Digitized by Google

Classification of patents—Continued.

200— 52: 1,339,845
1,340,344
1,342,591
1,346,067
1,356,663
1,357,900
1,358,636
1,361,077
54: 1,330,473
1,336,625
1,346,111
1,353,145
1,356,698
1,358,249
55: 1,344,783
1,346,087
1,347,039
1,347,506
1,358,254
56: 1,351,910
57: 1,336,652
1,342,468
1,345,116
1,360,964
59: 1,331,019
1,331,684
1,335,610
1,341,372
1,341,932
1,345,259
1,348,454
1,360,039
60: 1,333,919
1,344,735
1,349,860
61: 1,338,404
62: 1,354,525
63: 1,351,124
1,358,282
64: 1,347,308
1,352,604
1,357,939
66: 1,355,701
67: 1,328,338
1,339,306
1,341,764
1,346,553
1,347,629
1,349,038
1,354,759
1,361,170
68: 1,331,929
1,339,976
1,360,852
69: 1,335,106
70: 1,337,011
1,349,851
1,354,761
72: 1,327,640
1,330,390
1,335,135
1,339,820
1,340,000
1,348,684
1,351,161
1,361,287
73: 1,339,171
1,341,622
1,348,208
1,354,784
1,359,732
78: 1,354,758
1,354,764
1,359,476
1,362,661
1,362,662
80: 1,328,490
1,333,385
1,338,191
1,350,571
1,357,403
1,357,734
1,362,600
81: 1,352,212
1,354,069
82: 1,338,896
83: 1,340,086
1,349,843
84: 1,329,382
1,337,252
1,339,239
1,343,947
1,344,904
1,346,703
1,347,944
1,348,015
1,349,991
1,354,875
85: 1,353,057
86: 1,334,805
1,340,552
1,355,573
87: 1,327,951

200— 87: 1,331,098
1,331,882
1,341,867
1,354,208
1,360,281
88: R. 14,881
89: 1,350,902
1,360,280
90: 1,331,134
1,336,142
1,336,143
1,345,537
1,349,429
91: R. 14,834
1,328,825
1,330,020
1,333,070
1,334,144
1,342,256
1,352,927
93: 1,329,578
1,332,574
1,339,778
1,345,798
94: 1,331,068
1,331,064
1,337,072
1,339,900
1,339,922
1,345,450
1,352,307
1,354,181
1,354,880
1,354,881
1,354,882
1,354,883
1,358,754
97: 1,331,051
1,344,196
1,344,197
1,344,199
98: 1,345,880
1,348,842
1,356,501
99: 1,329,469
100: 1,334,396
104: 1,340,403
1,351,674
1,359,866
105: 1,334,037
106: 1,336,069
1,343,961
1,352,707
1,357,187
1,358,268
1,359,298
1,359,424
108: 1,330,094
1,341,678
109: 1,327,383
1,328,798
1,331,086
1,340,564
1,347,779
1,355,511
110: 1,335,558
113: 1,329,753
114: 1,350,432
1,351,043
115: 1,350,329
1,352,117
116: 1,328,460
1,350,587
117: 1,340,080
118: 1,343,039
119: 1,353,123
120: R. 14,897
1,337,806
121: 1,357,170
122: 1,328,477
1,328,478
1,328,479
1,328,480
1,328,481
1,328,482
1,330,756
1,334,181
1,334,211
1,336,418
1,347,686
1,352,044
1,355,847
123: 1,361,396
125: 1,328,782
1,330,499
1,330,516
1,335,810
1,336,238
1,350,210
1,355,313
1,355,314
1,359,174
126: 1,352,816

200— 128: 1,350,055
129: R. 14,844
130: 1,330,630
1,335,362
1,338,426
1,344,296
1,344,359
1,346,574
1,348,391
1,350,111
1,351,204
1,357,169
131: 1,329,866
1,339,965
1,355,779
1,359,561
1,363,641
1,363,642
132: 1,332,389
1,334,572
1,335,229
1,335,404
1,335,405
1,337,949
1,341,401
1,341,662
1,348,488
1,349,357
1,354,284
1,362,230
134: 1,350,444
1,359,324
135: 1,330,066
1,349,269
1,362,741
137: 1,330,892
138: 1,331,038
1,349,364
139: 1,337,623
1,348,514
140: 1,328,427
1,332,469
1,336,518
1,342,317
1,350,183
1,363,072
141: 1,352,956
142: 1,327,505
1,329,122
1,340,729
1,340,919
1,343,803
1,344,471
1,348,338
1,351,207
1,356,909
1,357,325
143: 1,347,735
144: 1,331,897
1,341,631
145: 1,342,999
146: 1,340,917
1,360,047
147: 1,338,740
148: 1,334,645
150: 1,334,554
1,337,995
1,349,873
1,357,846
1,357,847
152: 1,351,101
153: 1,329,347
1,331,067
1,335,316
1,335,753
1,335,834
1,342,015
1,357,585
1,362,344
154: 1,328,622
1,335,113
1,359,435
155: 1,331,955
1,353,589
1,353,820
156: 1,332,378
1,342,229
1,361,609
159: 1,328,562
1,333,013
1,333,015
1,333,115
1,335,729
1,336,066
1,336,419
1,340,139
1,355,179
1,363,558
160: 1,352,889
161: 1,337,961
162: 1,350,725
163: 1,340,788
164: 1,343,109

200— 164: 1,349,080
1,358,093
1,361,937
1,362,379
166: 1,327,615
1,327,825
1,327,844
1,328,450
1,336,455
1,337,628
1,342,674
1,353,021
1,353,249
168: 1,333,762
1,353,124
1,355,121
169: 1,339,506
1,342,972
1,349,356
1,352,400
1,352,401
1,352,402
170: 1,347,891
1,358,765
1,361,947
171: 1,337,469
1,344,925
1,352,966
172: 1,333,185
1,334,063
1,335,499
1,341,611
1,353,675
202— 1: 1,337,496
4: 1,358,654
5: 1,350,387
8: 1,334,405
1,352,696
9: 1,332,909
1,341,257
1,346,515
1,352,338
1,354,809
1,357,487
1,358,682
1,358,683
1,360,609
1,360,610
343: 1,360,800
203— 1: 1,331,784
5: 1,331,583
1,339,470
1,346,537
1,353,521
1,355,935
1,358,091
1,359,276
1,361,834
1,361,910
1,362,666
6: 1,330,632
1,336,254
1,337,342
1,338,667
1,339,022
1,347,713
1,350,627
1,351,363
1,351,629
1,353,085
1,355,268
1,363,730
42: 1,360,877
204— 1: 1,332,307
1,333,700
1,333,701
1,333,836
1,333,837
1,333,838
1,335,209
1,335,210
1,337,811
1,342,664
1,342,910
1,347,089
1,347,880
1,349,999
1,350,022
1,359,002
1,359,072
1,362,159
1,363,052
1,364,051
2: 1,338,279
1,356,342
3: 1,329,315
1,351,144
4: 1,331,571
5: 1,327,094
1,328,981
1,333,633
1,334,419
1,334,668

204— 5: 1,334,962
1,335,338
1,336,052
1,337,724
1,338,352
1,338,353
1,342,378
1,342,899
1,344,220
1,346,849
1,347,088
1,349,549
1,350,758
1,351,886
1,353,194
1,353,332
1,353,995
1,354,234
1,354,257
1,357,400
1,359,273
1,359,716
1,360,447
1,360,541
1,360,542
1,360,543
1,360,544
1,360,545
1,363,186
6: 1,357,401
7: 1,337,718
1,347,897
1,359,494
8: 1,328,552
1,330,399
1,331,888
1,335,177
1,335,846
1,338,492
1,341,790
1,352,331
9: 1,333,849
1,337,106
1,342,737
1,344,031
1,352,208
1,357,580
1,360,700
10: 1,344,030
1,362,082
11: 1,335,174
1,335,175
1,335,176
14: 1,352,328
15: R. 14,849
1,328,656
1,336,765
1,338,271
1,340,826
1,341,786
1,342,804
1,344,127
1,344,681
1,345,846
1,347,026
1,355,186
1,357,495
18: 1,347,189
1,362,166
19: 1,343,662
1,354,451
1,359,653
1,359,654
21: 1,334,179
24: 1,326,968
1,334,160
1,347,588
28: 1,352,763
1,358,858
29: R. 14,934
1,327,121
1,327,234
1,327,542
1,327,649
1,327,650
1,328,027
1,328,357
1,328,358
1,328,359
1,328,392
1,328,393
1,328,394
1,328,420
1,329,125
1,329,180
1,329,181
1,329,917
1,330,634
1,331,018
1,332,483
1,333,295
1,333,771
1,334,833

204— 29: 1,334,849
1,334,875
1,336,127
1,338,412
1,338,465
1,338,690
1,339,061
1,339,835
1,339,853
1,340,222
1,340,269
1,340,636
1,340,637
1,341,469
1,341,713
1,342,068
1,342,511
1,342,611
1,342,952
1,342,953
1,342,954
1,343,380
1,343,708
1,343,957
1,345,853
1,347,770
1,347,832
1,347,873
1,348,000
1,348,467
1,349,297
1,349,957
1,349,966
1,350,561
1,350,956
1,352,087
1,352,619
1,352,834
1,353,154
1,354,086
1,354,255
1,354,256
1,354,513
1,354,800
1,355,396
1,355,433
1,355,899
1,356,977
1,357,126
1,357,160
1,357,283
1,357,297
1,357,378
1,357,379
1,357,548
1,357,858
1,358,207
1,358,334
1,358,344
1,358,350
1,358,576
1,358,717
1,359,201
1,359,259
1,359,491
1,359,881
1,360,055
1,361,437
1,361,499
1,362,018
1,362,289
1,362,294
1,362,295
1,362,554
1,362,737
1,363,645
1,363,646
1,363,648
1,363,649
1,363,650
1,363,671
1,363,683
1,363,684
1,363,685
1,363,686
1,363,729
1,363,754
1,364,011
31: 1,326,952
1,327,023
1,328,575
1,333,404
1,334,590
1,336,989
1,339,225
1,342,084
1,342,948
1,344,153
1,345,431
1,345,656
1,351,458
1,352,085
1,358,443

Digitized by Google

Classification of patents—Continued.

204— 31: 1,359,211
1,359,932
1,359,933
1,363,000
1,363,827
32: 1,337,062
33: 1,331,218
38: R. 14,929
1,329,946
1,331,456
1,331,726
1,331,761
1,331,768
1,331,764
1,331,877
1,334,946
1,342,001
1,356,197
1,356,434
1,356,435
1,356,436
1,360,589
53: 1,336,506
57: 1,344,869
1,351,877
58: 1,336,281
1,341,516
1,342,336
1,349,597
1,354,498
1,355,116
1,363,228
61: 1,361,041
62: 1,327,736
1,327,737
1,331,435
63: 1,334,004
1,340,951
1,341,939
1,350,149
1,350,150
1,359,736
64: 1,327,174
1,327,282
1,327,548
1,327,738
1,328,336
1,328,712
1,328,713
1,328,714
1,330,133
1,331,046
1,331,625
1,332,182
1,332,422
1,332,795
1,333,720
1,333,914
1,333,950
1,334,809
1,335,009
1,335,079
1,335,895
1,336,017
1,336,807
1,336,820
1,337,156
1,337,305
1,337,839
1,338,021
1,338,103
1,338,408
1,338,439
1,338,440
1,338,631
1,338,734
1,338,881
1,339,344
1,339,393
1,339,428
1,340,155
1,340,203
1,342,636
1,342,809
1,345,351
1,345,976
1,346,223
1,346,854
1,347,838
1,347,896
1,348,434
1,349,361
1,349,363
1,349,379
1,349,391
1,349,539
1,350,714
1,350,877
1,351,977
1,352,040
1,352,086
1,352,387
1,352,388

204— 64: 1,352,430
1,352,541
1,352,580
1,353,983
1,357,901
1,358,617
1,359,067
1,359,735
1,363,382
1,363,815
65: 1,357,290
205— 12: 1,351,348
13: 1,344,568
16: 1,338,453
1,341,986
1,354,336
1,357,543
21: 1,345,441
22: 1,341,664
28: 1,353,721
29: 1,355,745
206— 1: 1,331,666
1,340,060
1,346,036
2: 1,341,871
1,344,771
3: 1,329,986
1,343,374
5: 1,350,701
6: 1,333,964
1,339,330
7: 1,357,700
12: 1,337,433
13: 1,352,814
15.1: 1,341,329
1,342,021
1,347,063
1,359,050
15.6: 1,346,541
1,349,672
1,349,673
16: 1,335,968
1,337,178
1,345,247
1,349,232
1,350,237
17: 1,357,068
18: 1,331,968
20: 1,328,068
1,330,895
1,334,961
1,335,012
1,351,940
21: 1,328,703
1,332,927
1,333,795
1,333,989
1,361,468
22: 1,335,970
1,359,759
25: 1,361,857
26: 1,349,243
27: 1,342,695
1,350,986
28: 1,329,012
1,340,980
30: 1,327,458
31: 1,331,231
1,343,354
1,345,078
1,362,971
1,362,520
32: 1,351,241
33: 1,338,992
1,341,074
1,341,139
1,341,140
1,344,746
34: 1,329,916
36: 1,350,977
37: 1,329,412
1,342,116
1,345,356
1,354,211
1,354,970
38: 1,330,344
1,339,899
1,341,295
1,341,857
1,345,935
1,356,671
1,360,927
1,361,893
40: 1,326,926
1,328,035
41: 1,329,757
1,334,616
1,334,717
1,339,577
1,342,512
1,344,635
1,344,716
1,347,816

206— 41: 1,352,613
1,354,042
44: 1,330,946
1,333,893
1,334,259
1,334,982
1,338,394
1,340,744
1,343,420
1,347,273
1,347,839
1,348,318
1,350,294
1,358,659
1,361,631
1,361,882
1,362,565
1,363,436
45: 1,335,397
46: 1,329,056
1,330,297
1,330,864
1,338,315
1,342,069
1,349,643
1,352,962
1,355,976
1,361,312
47: 1,344,135
1,344,927
1,346,441
48: 1,332,420
1,349,780
1,351,242
49: 1,345,185
50: 1,331,073
51: 1,344,110
52: R. 14,960
1,332,036
1,347,867
1,356,331
1,359,458
53: 1,345,129
55: 1,333,728
56: 1,326,914
1,329,595
1,331,549
1,332,805
1,334,346
1,337,838
1,338,156
1,343,360
1,346,792
1,356,408
1,357,026
1,358,066
1,362,975
57: 1,341,974
1,353,954
1,354,810
59: 1,342,909
1,348,857
60: 1,354,509
1,359,569
63: 1,339,008
1,356,078
63.2: 1,351,441
1,357,128
63.3: 1,334,916
64: 1,343,934
65: 1,329,577
1,351,739
1,351,740
1,356,069
207— 1: 1,336,224
3: 1,330,489
1,331,169
1,348,007
6: 1,347,415
1,352,194
9: 1,356,932
10: 1,358,199
11: 1,344,577
22: 1,328,748
208— 15: 1,337,025
1,344,382
17: 1,360,032
21: 1,343,616
1,349,588
23: 1,329,940
24: 1,350,987
1,353,108
30: 1,348,326
32: 1,330,011
1,339,433
1,357,895
1,359,674
33: 1,334,241
1,336,374
1,336,935
1,345,127
1,348,888
1,349,509

208— 34: 1,344,108
1,342,440
1,350,348
1,362,825
35: 1,332,185
1,332,819
1,344,494
1,353,581
36: 1,350,577
1,350,806
38: 1,330,951
1,339,624
1,343,993
1,345,092
1,346,727
1,350,232
1,350,546
1,353,011
1,359,957
1,362,865
42: 1,355,752
45: 1,332,042
1,346,596
46: 1,332,709
55: 1,341,572
57: 1,337,624
1,340,386
1,341,983
1,346,118
1,356,052
61: 1,358,315
68: 1,337,765
69: 1,358,225
70: 1,352,445
1,352,446
1,362,145
75: 1,332,826
1,347,355
76: 1,338,029
1,357,890
78: 1,358,252
91: 1,344,226
94: 1,331,747
1,333,449
1,339,554
1,340,508
97: 1,335,765
1,343,820
1,356,087
100: 1,333,125
1,358,666
101: 1,330,933
1,347,100
1,350,878
1,361,382
113: 1,342,088
114: 1,327,960
1,342,386
1,354,141
126: 1,331,875
1,345,505
1,356,572
138: 1,342,388
1,343,916
1,348,121
140: 1,352,596
150: 1,356,874
1,357,239
1,360,945
154: 1,334,108
158: 1,355,520
1,359,436
161: 1,334,441
1,350,052
162: 1,337,396
165: 1,327,240
1,328,343
1,328,557
1,328,719
1,331,072
1,331,411
1,333,292
1,333,370
1,335,425
1,337,300
1,338,448
1,338,545
1,340,282
1,341,768
1,342,720
1,343,566
1,344,548
1,345,578
1,347,099
1,347,384
1,348,113
1,348,118
1,348,577
1,350,492
1,352,577
1,352,835
1,354,121
1,354,400

208— 165: 1,358,188
1,358,746
1,359,302
1,362,086
1,362,407
1,362,769
1,363,214
210— 1: 1,331,238
1,333,393
1,349,881
3: 1,341,208
4: 1,329,462
1,337,595
5: 1,327,211
1,327,944
1,328,262
1,336,553
1,337,094
1,337,095
1,337,215
1,345,090
1,355,071
5.5: 1,356,608
6: 1,337,066
1,343,764
1,349,452
7: 1,337,061
8: 1,335,282
1,341,561
1,347,932
9: 1,331,732
1,336,591
1,350,532
10: 1,335,955
11: 1,328,221
13: 1,330,331
1,330,332
1,333,869
1,337,170
1,337,251
1,345,861
1,350,433
14: 1,327,962
1,335,695
1,336,444
16: 1,327,708
1,328,044
1,328,853
1,329,398
1,330,463
1,331,237
1,331,900
1,331,935
1,332,358
1,332,877
1,334,692
1,335,087
1,335,899
1,336,214
1,337,517
1,337,756
1,339,195
1,340,599
1,341,913
1,343,679
1,355,073
17: 1,332,996
1,333,011
18: 1,328,045
1,328,046
1,331,735
1,332,882
1,334,192
1,337,431
1,339,980
1,343,797
19: 1,335,802
1,336,512
24: 1,362,673
25: 1,333,719
1,342,405
1,342,743
1,343,078
1,360,708
26: 1,334,585
27: 1,362,999
1,363,589
29: 1,354,604
1,362,611
30: 1,334,023
1,336,722
33: 1,362,153
35: 1,336,779
43: 1,346,244
1,350,521
45: 1,350,184
51: 1,355,934
52: 1,344,710
54: 1,339,684
1,344,370
1,350,204
1,360,703
1,357,587

210— 57: 1,357,101
59: 1,360,149
62: 1,339,769
63: 1,356,250
73: 1,340,682
77: 1,356,547
84: 1,361,976
89: 1,362,125
124: 1,358,840
127: 1,339,045
131: 1,361,493
134: 1,357,618
140: 1,362,998
152: 1,357,499
154: 1,348,536
1,352,120
155: 1,351,298
156: 1,339,037
1,341,119
1,349,798
157: 1,349,120
158: 1,357,867
165: 1,352,961
1,355,306
1,355,719
1,361,243
166: 1,345,946
174: 1,346,881
178: 1,343,182
183: 1,348,159
184: 1,356,550
1,359,162
185: 1,350,291
195: 1,342,829
1,342,839
1,344,745
1,349,238
1,350,452
196: 1,349,056
1,358,595
197: 1,358,880
198: 1,338,232
199: 1,338,999
1,346,060
200: 1,344,215
202: 1,348,036
1,359,578
211— 2: 1,328,950
1,340,335
1,350,874
1,355,633
1,362,058
6: 1,327,489
7: 1,348,134
1,329,607
1,339,140
1,351,464
1,356,014
8: 1,327,712
1,330,073
1,330,540
1,330,799
1,331,830
1,331,990
1,333,045
1,333,479
1,335,716
1,338,469
1,337,843
1,339,053
1,339,067
1,340,748
1,341,606
1,342,733
1,343,974
1,344,142
1,344,160
1,344,692
1,345,481
1,345,499
1,345,855
1,345,984
1,347,585
1,348,024
1,348,732
1,348,763
1,350,068
1,350,112
1,350,996
1,354,307
1,354,957
1,355,488
1,355,583
1,356,345
1,356,350
1,357,070
1,357,071
1,357,521
1,358,388
1,358,884
1,359,328
1,359,696
1,360,422

Digitized by Google

Classification of patents—Continued.

211— 9: 1,328,185
1,329,510
1,351,251
1,363,687
11: 1,330,104
1,339,652
1,348,087
1,357,062
1,361,562
12: 1,335,679
1,343,723
13: R. 14,981
1,329,877
1,332,146
1,332,449
1,332,533
1,332,583
1,334,798
1,335,972
1,336,375
1,336,429
1,336,849
1,340,446
1,341,827
1,342,265
1,344,391
1,344,665
1,344,697
1,345,017
1,346,922
1,349,022
1,350,219
1,351,516
1,352,382
1,356,448
1,356,946
1,363,726
14: 1,329,861
1,333,042
1,341,848
1,342,364
1,344,027
1,344,239
1,345,158
1,345,244
1,345,525
1,348,173
1,349,255
1,350,017
1,352,490
1,355,033
1,356,487
1,356,620
1,356,694
1,357,041
1,357,879
1,358,406
1,358,415
1,359,026
1,359,643
1,361,841
1,362,012
16: 1,327,142
1,327,143
1,327,949
1,331,024
1,332,081
1,332,286
1,333,942
1,334,026
1,334,712
1,334,817
1,336,206
1,336,382
1,337,812
1,337,922
1,339,291
1,340,364
1,340,565
1,341,412
1,341,512
1,345,367
1,345,692
1,349,466
1,350,146
1,351,333
1,351,423
1,351,596
1,351,778
1,351,994
1,352,684
1,353,974
1,358,833
1,360,679
1,360,680
1,361,824
1,362,235
17: 1,347,277
18: 1,352,397
1,353,016
1,359,987
1,360,424
20: 1,327,771

211— 20: 1,336,831
1,343,794
1,349,263
1,350,940
1,360,856
1,361,769
21: 1,337,049
22: 1,360,532
24: 1,332,694
1,332,695
1,333,227
1,336,293
1,336,903
1,338,563
1,339,194
1,340,859
1,342,313
1,342,731
1,349,402
1,351,007
1,351,817
1,354,774
1,355,349
1,357,439
1,358,792
1,359,370
1,359,668
1,359,937
1,361,112
1,361,334
25: 1,328,542
1,341,822
1,343,681
1,347,161
26: 1,331,143
27: 1,327,628
1,336,490
1,336,971
1,341,852
1,343,327
1,343,818
1,344,106
1,355,213
28: R. 14,877
1,333,102
1,343,526
1,353,273
1,355,072
1,356,588
1,361,451
1,361,630
29: 1,331,112
1,337,392
1,339,885
1,342,853
1,351,956
1,354,511
1,362,449
1,362,817
31: 1,331,931
1,334,653
1,336,140
1,338,057
1,354,170
32: 1,330,005
1,332,194
1,333,022
1,337,588
1,340,132
1,341,862
1,351,555
1,358,904
33: 1,332,578
1,337,837
1,346,970
1,355,281
34: 1,328,167
1,343,651
1,351,594
1,358,520
1,359,617
1,359,750
36: 1,346,018
1,349,699
1,350,602
1,351,372
37: 1,332,386
1,333,610
1,336,922
1,339,255
1,339,823
1,341,695
1,346,886
1,356,216
38: 1,331,417
41: 1,338,101
1,341,389
43: 1,338,184
1,361,540
44: 1,339,503
212— 3: 1,232,630
4: 1,341,390
1,344,218

212— 8: 1,328,793
1,342,480
1,354,501
11: 1,352,076
29: 1,354,745
38: 1,359,379
44: 1,339,263
1,351,226
1,363,834
46: 1,333,699
49: 1,344,659
53: 1,353,913
54: 1,338,726
1,339,072
55: 1,345,008
1,345,304
56: 1,352,575
58: 1,342,959
1,343,966
1,357,150
59: 1,337,400
64: 1,356,008
65: 1,340,893
66: 1,353,697
68: 1,330,077
70: 1,348,008
73: 1,343,756
74: 1,346,068
1,359,296
77: 1,343,434
79: 1,354,247
81: 1,358,128
84: 1,360,475
93: 1,330,670
94: 1,336,877
97: 1,348,435
98: 1,337,667
114: 1,346,243
116: 1,355,860
125: 1,342,217
126: 1,363,442
127: 1,351,882
130: 1,354,716
1,362,560
135: 1,330,212
136: 1,332,192
137: 1,348,719
142: 1,333,200
1,345,881
1,351,225
1,355,479
145: 1,350,992
1,359,378
213— 2: 1,363,360
5: 1,339,487
10: 1,339,030
1,340,538
1,348,776
1,349,433
17: 1,344,780
1,363,973
19: 1,349,985
35: 1,333,384
1,335,211
1,335,683
1,352,516
39: 1,339,743
1,356,210
40: 1,348,947
1,359,715
42: 1,327,074
1,329,318
1,330,087
1,333,271
1,337,090
1,337,281
1,338,306
1,339,020
1,339,714
1,339,940
1,340,285
1,341,149
1,341,455
1,341,556
1,342,586
1,342,696
1,342,697
1,344,183
1,344,184
1,344,185
1,344,979
1,344,980
1,344,981
1,345,529
1,346,538
1,346,545
1,346,556
1,348,141
1,350,436
1,352,151
1,353,101
1,355,959
1,355,967

213— 42: 1,355,966
1,355,987
1,356,004
1,356,266
1,357,603
1,357,776
1,358,449
1,358,499
1,358,502
1,358,696
1,358,930
1,359,391
1,360,526
1,360,706
1,361,087
1,361,440
1,361,788
1,362,022
1,362,043
1,362,691
1,362,706
1,363,939
1,364,047
45: 1,331,425
1,339,016
1,353,094
1,360,233
50: 1,335,061
1,336,326
54: 1,337,391
1,355,822
56: 1,335,868
59: 1,332,500
1,332,507
1,347,380
1,354,923
1,356,521
1,358,361
1,358,362
1,358,363
1,360,268
1,363,479
61: 1,357,651
1,357,652
64: 1,329,795
1,337,002
1,337,003
1,338,893
1,341,150
1,343,295
1,343,296
1,345,393
1,353,529
1,353,871
1,355,993
1,355,994
1,355,995
1,356,002
1,356,081
1,356,254
1,357,801
1,357,803
1,357,888
1,358,489
1,360,184
1,360,434
1,360,605
1,361,478
1,361,485
1,361,543
1,363,006
1,363,007
1,363,179
65: 1,333,317
1,346,603
1,348,501
1,356,209
67: 1,327,265
1,327,480
1,327,617
1,327,827
1,328,335
1,332,524
1,333,171
1,336,181
1,336,474
1,336,735
1,337,521
1,338,561
1,340,105
1,340,504
1,340,521
1,341,170
1,341,918
1,342,011
1,342,725
1,342,949
1,343,908
1,344,482
1,344,818
1,344,899
1,345,399
1,345,873

213— 67: 1,347,346
1,347,448
1,349,300
1,349,855
1,350,338
1,351,098
1,353,020
1,353,713
1,354,288
1,354,389
1,354,654
1,355,640
1,356,076
1,356,139
1,356,270
1,356,705
1,356,741
1,357,049
1,357,721
1,358,392
1,358,955
1,360,223
1,360,263
1,361,166
1,362,154
1,362,857
1,362,863
1,363,777
214— 1: 1,329,962
1,331,938
1,332,999
1,334,336
1,335,132
1,340,594
1,340,595
1,340,648
1,342,826
1,343,288
1,343,300
1,350,755
1,355,296
1,357,456
3: 1,339,082
3.1: 1,359,236
6: 1,334,892
1,335,344
1,342,463
1,350,993
1,358,152
1,359,195
8: 1,331,208
10: 1,331,883
1,335,455
11: 1,333,193
14: 1,327,927
1,333,065
1,363,088
15: 1,344,459
1,344,481
1,351,026
1,362,009
16: 1,333,878
1,342,418
1,354,223
17: 1,327,540
1,332,373
1,336,862
1,344,809
1,349,231
1,349,813
18: R. 15,011
1,336,681
1,339,081
1,343,465
1,343,995
1,348,903
1,351,541
1,362,458
20: 1,331,703
23: 1,335,741
1,351,224
1,355,453
1,360,008
27: 1,334,000
31: 1,329,993
1,329,588
1,336,494
1,340,156
32: 1,349,176
35: 1,330,749
1,331,785
1,362,977
1,363,008
37: 1,333,957
38: 1,327,952
1,329,956
1,330,090
1,341,197
1,354,688
215— 1: 1,327,439
1,336,049
1,337,518
1,338,660
1,341,826

214— 42: 1,332,866
1,334,751
1,345,068
43: 1,340,819
44: 1,333,300
1,337,047
1,346,681
46: 1,329,084
1,336,005
1,352,608
1,356,390
47: 1,327,255
49: 1,333,429
1,335,585
1,338,798
1,340,683
1,341,499
1,350,087
50: 1,350,736
51: 1,358,175
52: 1,333,345
1,360,583
1,360,607
58: 1,329,392
59: 1,331,423
60: 1,331,622
1,333,947
65: 1,338,369
1,343,898
1,343,471
1,345,531
67: 1,334,002
1,344,047
72: 1,359,841
1,360,050
73: 1,352,301
75: 1,339,290
1,345,069
77: 1,328,923
1,330,163
78: 1,337,332
1,342,293
1,348,777
80: 1,327,834
81: 1,341,904
81.5: 1,355,221
1,359,824
83: 1,330,667
1,340,378
1,341,239
1,351,636
85: 1,346,891
1,352,898
89: 1,351,381
90: 1,345,991
1,356,985
91: 1,328,809
1,342,470
1,345,617
93: 1,343,746
95: 1,360,493
102: 1,357,318
103: 1,335,435
1,360,124
105: 1,327,637
1,340,345
110: 1,351,932
119: 1,335,531
1,362,002
1,363,029
120: 1,355,512
1,361,490
121: 1,334,327
1,357,003
1,362,347
1,363,985
122: 1,361,230
125: 1,359,212
1,362,441
130: 1,336,567
1,339,138
1,354,993
1,356,149
131: 1,330,304
132: 1,360,279
1,362,566
134: 1,351,212
1,360,997
135: 1,354,870
137: 1,340,498
1,359,237
140: 1,332,227
1,337,082
141: 1,330,745
146: 1,347,967
1,356,520
152: 1,332,168
815: 1,353,229

Digitized by Google

Classification of patents—Continued.

215— 1: 1,342,568
1,342,747
1,346,631
1,351,479
1,355,214
1,355,394
1,356,480
1,361,080
1,362,208
2: 1,338,480
1,352,173
1,352,967
3: 1,338,063
1,345,654
1,354,711
1,354,716
8: 1,327,519
9: 1,328,205
1,338,847
1,339,370
1,341,177
1,343,760
1,345,363
1,355,442
10: 1,328,455
1,335,538
1,339,066
1,347,410
1,357,831
11: 1,351,328
1,355,973
1,361,388
12: 1,333,245
13: 1,327,967
1,328,280
1,341,382
1,346,112
1,351,187
1,353,399
1,353,400
1,353,909
1,361,225
14: 1,327,809
1,328,536
1,332,183
1,337,979
1,340,783
1,344,516
1,346,757
1,350,167
1,352,062
1,352,334
1,361,394
1,362,181
16: 1,359,661
17: 1,345,722
1,360,911
19: 1,363,804
23: 1,361,412
27: 1,338,494
33: 1,343,962
1,358,352
34: 1,341,075
1,342,657
1,348,273
1,363,983
47: 1,361,199
51: 1,340,237
52: 1,329,248
1,334,378
1,364,029
53: 1,338,224
1,341,680
1,345,182
1,349,511
55: 1,328,060
57: 1,346,137
1,351,920
59: 1,358,089
60: 1,349,830
62: 1,340,373
1,345,279
63: 1,332,231
65: 1,336,252
1,337,923
1,361,789
66: 1,362,564
67: 1,327,133
68: 1,357,654
1,358,398
69: 1,331,780
1,347,635
1,348,116
1,352,650
70: 1,348,062
71: 1,329,975
72: 1,348,014
80: 1,336,867
1,336,507
1,337,034
1,343,013
1,346,435
1,356,224

215— 81: 1,327,953
1,329,590
1,333,781
1,335,054
1,341,897
1,346,257
1,346,658
1,346,654
1,350,238
1,353,017
1,353,396
1,353,397
1,359,351
82: 1,353,398
83: 1,353,801
84: 1,327,453
1,342,039
1,351,304
1,363,996
87: 1,331,470
1,339,442
88: 1,330,966
1,337,182
1,346,510
1,348,231
1,352,119
1,353,277
1,355,289
89: 1,346,785
90: 1,353,278
92: 1,331,336
98: 1,351,496
99: 1,342,321
1,343,299
1,353,104
1,357,155
100: 1,328,866
110: 1,359,970
112: 1,326,974
1,355,012
113: 1,352,344
1,355,092
1,355,181
118: 1,342,883
1,352,844
1,360,883
1,362,831

216— 2: 1,338,978
1,355,228
3: 1,348,493
1,363,065
6: 1,343,106
1,346,647
1,348,290
1,354,184
1,356,716
1,360,183
7: 1,331,486
9: 1,331,972
1,339,784
1,344,081
14: 1,327,664
1,327,665
23: 1,351,107
28: 1,330,261
38: 1,346,484
44: 1,329,260
1,338,603
1,355,353
47: 1,327,485
49: 1,356,253
53: 1,343,264
54: 1,332,625
1,338,793
1,345,006
1,351,024
55: 1,362,200
62: 1,329,696
1,344,080

217— 1: 1,336,011
1,349,840
1,350,909
2: 1,335,454
1,346,681
3: 1,327,755
1,339,328
1,340,668
4: 1,329,414
1,329,633
1,335,649
1,343,809
5: 1,345,263
1,353,887
1,358,781
1,359,634
1,362,832
5.6: 1,361,341
7: 1,330,947
10: 1,346,591
12: 1,327,473
1,328,328
1,329,032
1,329,332

217— 12: 1,329,333
1,330,382
1,331,096
1,334,068
1,334,271
1,335,060
1,338,533
1,339,021
1,340,119
1,340,489
1,354,004
1,361,823
14: 1,335,137
15: 1,329,376
1,334,792
1,335,635
1,342,750
1,346,781
1,347,230
1,350,099
1,352,299
1,353,688
1,356,681
17: 1,338,051
18: 1,362,481
20: 1,331,007
1,334,083
22: 1,331,364
1,340,881
23: 1,334,603
1,337,978
24: R. 15,014
26: 1,329,674
1,351,708
27: 1,360,808
29: 1,337,592
1,362,364
34: 1,331,509
35: 1,330,284
1,335,300
1,347,909
1,355,810
1,362,282
36: 1,333,673
40: 1,347,923
1,350,496
1,353,155
43: 1,333,857
1,347,675
1,359,753
44: 1,328,587
1,332,245
1,334,186
1,339,749
1,341,060
1,361,880
1,363,145
47: 1,327,368
1,340,515
1,344,543
48: 1,353,030
49: 1,359,451
52: 1,347,643
53: 1,333,658
55: 1,356,453
56: 1,340,870
1,345,552
1,345,856
1,348,652
1,359,823
1,362,645
60: 1,329,552
1,331,556
1,332,834
1,333,939
1,334,546
1,335,626
1,336,085
1,337,791
1,341,518
1,342,325
1,343,347
1,345,261
1,346,778
1,352,602
1,352,711
1,353,540
1,357,655
1,359,953
1,361,223
1,362,255
61: 1,331,314
1,337,999
62: 1,328,302
1,345,205
64: 1,329,344
1,341,927
1,342,243
65: 1,354,302
1,363,984
66: 1,340,350
1,344,576
1,361,611

217— 66: 1,361,890
69: 1,356,491
72: 1,344,876
74: 1,358,503
76: 1,340,023
79: 1,344,098
1,360,766
81: 1,337,188
86: 1,360,471
89: 1,338,522
1,340,075
1,341,493
1,349,008
1,358,253
1,360,688
90: 1,336,179
91: 1,360,792
95: 1,339,701
1,339,862
1,351,310
1,361,956
98: 1,331,083
99: 1,334,819
1,340,810
101: 1,353,782
105: 1,332,099
113: 1,338,007
122: 1,327,362
1,349,431
1,358,581
124: 1,351,334
125: 1,329,966
1,351,105
1,354,115

218— 1: 1,357,368
2.1: 1,333,414
1,342,331
8: 1,329,438
1,330,546
1,335,315
1,336,786
1,336,787
1,356,219
1,356,772
11: 1,336,777
12: 1,330,954
1,336,771
1,336,778
1,339,324
14: 1,327,033
1,356,522
1,363,105
15: R. 14,931
R. 14,932
1,334,238
1,336,854
1,336,855
1,337,229
1,341,763
1,361,863
15.1: 1,351,138
1,358,044
17: 1,327,911
1,328,701
1,356,760
17.2: 1,328,764
19: 1,331,981
1,361,340
26: 1,327,888
27: 1,341,203
1,347,289
58: 1,327,872
60: 1,327,978

219— 1: 1,333,311
2: 1,329,144
1,330,241
1,330,800
1,331,568
1,332,394
1,333,081
1,335,575
1,336,603
1,337,457
1,345,679
1,346,054
1,346,681
1,358,000
3: R. 14,798
1,332,058
1,333,036
1,339,970
1,341,808
1,344,961
1,359,199
4: 1,327,792
1,329,520
1,329,890
1,330,468
1,330,477
1,330,553
1,332,688
1,333,080
1,333,274

219— 4: 1,334,571
1,334,691
1,338,762
1,341,626
1,344,415
1,348,948
1,349,303
1,350,572
1,351,446
1,351,717
1,353,684
1,354,293
1,354,986
1,357,080
1,358,428
1,360,118
1,360,288
1,360,948
1,361,652
1,362,962
1,363,933
5: 1,357,156
1,359,552
1,360,034
6: R. 14,927
1,351,445
1,354,593
1,363,156
1,363,157
1,363,158
1,363,159
1,363,160
8: 1,329,384
1,329,530
1,332,184
1,332,186
1,332,241
1,333,586
1,335,584
1,337,543
1,337,662
1,339,515
1,340,270
1,340,644
1,341,293
1,341,558
1,341,647
1,343,194
1,343,242
1,345,817
1,346,350
1,347,184
1,347,776
1,348,530
1,350,317
1,351,518
1,353,028
1,353,711
1,354,266
1,354,476
1,354,664
1,356,468
1,359,001
1,359,620
1,359,976
1,360,017
1,361,269
1,363,636
10: 1,326,912
1,327,814
1,328,919
1,329,135
1,329,136
1,329,413
1,330,761
1,332,155
1,332,563
1,332,670
1,333,275
1,339,417
1,339,966
1,339,967
1,339,968
1,339,969
1,339,971
1,339,972
1,340,170
1,340,412
1,341,337
1,342,717
1,342,957
1,344,125
1,347,278
1,350,557
1,350,828
1,350,833
1,351,271
1,351,684
1,351,909
1,361,075
1,363,161
1,363,355
1,363,356

219— 11: 1,343,996
1,354,859
1,362,609
1,362,610
12: 1,327,267
13: 1,333,273
1,334,756
15: 1,329,233
1,329,532
1,333,350
1,338,301
1,340,056
1,343,199
1,343,200
1,343,201
1,343,202
1,343,203
1,343,204
1,343,205
1,343,206
1,343,207
1,343,208
1,343,607
1,351,030
1,351,815
1,354,398
1,355,124
1,357,486
1,362,491
16: 1,330,446
19: R. 14,966
1,327,050
1,327,207
1,328,126
1,330,642
1,330,877
1,331,829
1,332,222
1,334,876
1,335,595
1,335,650
1,338,359
1,345,004
1,345,696
1,347,013
1,349,136
1,353,665
1,355,382
1,356,042
1,358,059
1,358,944
1,358,963
1,359,275
1,359,639
1,359,745
1,360,012
1,361,954
1,363,108
20: 1,336,105
1,338,088
1,346,793
1,356,790
1,359,889
1,363,776
21: 1,327,804
1,328,709
1,331,496
1,333,458
1,348,263
1,353,972
1,355,932
1,359,751
1,361,623
1,362,892
22: 1,335,987
23: 1,330,712
1,331,400
24: 1,334,719
25: 1,331,107
1,333,722
1,335,199
1,342,864
1,342,905
1,344,741
1,350,867
1,350,983
1,351,054
1,353,471
1,356,071
26: 1,345,645
1,353,965
1,357,648
1,361,032
1,363,473
1,363,474
27: 1,340,736
28: 1,357,606
29: 1,361,442
30: 1,357,220
32: 1,328,466
1,340,716
1,359,360
1,362,227

Digitized by Google

Classification of patents—Continued.

219— 33: 1,360,404
34: 1,327,986
1,330,576
1,330,904
1,332,052
1,336,021
1,337,725
1,337,779
1,339,935
1,359,780
1,360,999
1,361,556
1,362,060
1,363,206
35: 1,338,952
1,341,903
1,341,994
1,349,130
1,349,131
1,350,876
1,359,757
1,363,227
36: 1,327,102
1,347,895
1,363,877
37: 1,331,486
1,332,526
1,332,879
1,332,935
1,333,724
1,336,559
1,344,282
1,345,730
1,348,469
1,348,648
38: 1,327,279
1,327,507
1,328,068
1,328,069
1,328,546
1,329,488
1,331,061
1,331,468
1,332,482
1,333,933
1,335,392
1,336,728
1,337,120
1,337,189
1,343,053
1,343,848
1,344,303
1,346,741
1,347,177
1,352,049
1,352,364
1,352,854
1,356,335
1,356,881
1,357,019
1,357,891
1,358,219
1,358,526
1,359,049
1,359,189
1,359,218
1,359,983
1,360,452
1,360,510
1,361,017
1,361,095
1,361,795
1,363,948
39: 1,326,964
1,329,304
1,335,020
1,338,997
1,340,668
1,343,134
1,345,748
1,346,471
1,351,779
1,351,986
1,355,838
1,355,867
1,356,818
1,357,287
1,360,437
1,362,356
1,363,472
40: 1,327,774
1,350,586
1,350,631
1,352,847
1,355,644
1,356,846
1,358,377
1,358,982
1,363,947
41: 1,334,035
1,345,222
1,359,390
1,361,028

219— 42: 1,335,423
1,348,477
43: 1,346,353
1,351,478
1,359,000
44: 1,328,723
1,352,435
45: 1,338,611
1,347,995
1,348,506
46: 1,328,229
1,344,581
1,345,249
1,356,065
1,358,509
1,361,333
47: 1,362,622
48: 1,332,434
1,335,181
1,337,826
1,342,594
1,345,080
1,348,809
1,350,280
1,351,019
1,351,023
1,352,246
1,352,834
1,356,293
1,357,773
1,359,656
1,360,329
49: 1,327,642
1,333,936
1,335,015
1,335,023
1,338,998
1,342,061
1,343,689
1,343,690
1,346,418
50: 1,335,014
1,335,016
1,335,017
1,335,018
1,335,019
1,335,295
1,336,918
1,336,919
1,343,472
51: 1,335,022
1,345,015
1,359,048
55: 1,329,167
56: 1,329,168
57: 1,332,167
1,335,021
1,340,241
1,352,447
1,352,448
1,360,069
62: 1,327,135
1,359,060
63: 1,332,029
1,332,852
1,335,483
1,340,813
1,344,406
1,347,900
1,349,583
1,356,617
1,358,220
1,359,400
1,360,267
1,362,851
64: 1,334,850
1,338,717
1,347,102
1,363,074
65: 1,331,660
67: 1,350,910
69: 1,332,030
71: 1,340,795
74: 1,360,904
76: 1,338,294
1,342,342
1,349,053

220— 1: 1,327,778
1,327,917
1,331,372
1,336,439
1,343,779
1,345,862
3: 1,350,666
4: 1,340,248
1,348,354
5: 1,341,549
1,351,823
6: 1,331,544
1,335,643
1,344,877
1,354,928
1,358,562

220— 7: 1,336,895
1,337,167
1,338,608
1,345,264
1,346,839
1,349,799
8: 1,344,601
1,346,220
1,352,238
9: 1,328,937
1,336,813
1,337,611
1,343,688
1,353,236
10: 1,333,795
1,343,169
1,362,740
11: 1,341,403
1,353,280
14: 1,360,728
15: 1,328,758
1,330,704
1,333,840
1,355,413
17: 1,331,718
1,341,960
1,351,747
1,363,543
18: 1,358,618
19: 1,352,444
20: 1,327,948
1,346,084
1,355,647
21: 1,343,629
1,345,979
22: 1,329,655
1,345,359
24: 1,333,297
1,335,645
1,337,195
1,339,340
1,343,480
1,344,650
1,346,558
1,350,332
1,351,611
1,356,041
1,358,307
1,363,153
25: 1,336,012
1,342,740
1,349,510
1,352,254
1,363,251
27: 1,348,601
1,359,651
31: 1,348,378
1,351,900
1,356,801
32: 1,337,733
1,338,400
1,357,072
1,363,122
33: 1,334,243
1,343,474
1,350,471
35: 1,332,202
36: 1,352,521
1,354,787
1,360,732
38: 1,336,972
39: 1,329,040
1,330,088
1,332,686
1,332,687
1,339,485
1,344,457
1,346,496
1,348,915
1,349,137
1,355,936
1,356,502
1,356,912
1,358,549
1,360,388
40: 1,336,811
1,341,592
1,351,964
41: 1,335,234
1,357,708
42: 1,348,317
1,348,550
43: 1,334,245
1,335,084
1,335,787
1,340,413
1,341,505
1,354,893
1,354,914
1,359,830
1,361,592
1,362,132
44: 1,337,526

220— 44: 1,350,109
46: 1,335,232
1,338,688
1,356,507
48: 1,333,910
1,350,702
51: 1,356,220
1,361,395
53: 1,359,731
1,359,875
54: 1,335,007
55: 1,333,262
1,334,343
1,335,306
1,341,588
1,344,455
1,344,456
1,349,610
1,355,042
1,356,085
1,361,946
1,362,878
56: 1,328,672
1,351,325
1,353,127
1,358,380
1,361,141
57: 1,339,905
1,353,183
1,358,462
1,359,874
1,359,478
59: 1,355,018
60: 1,347,665
61: 1,332,515
1,335,238
1,336,358
1,337,491
1,343,055
1,355,151
62: 1,335,396
1,353,689
63: 1,344,557
1,351,395
65: 1,341,507
67: 1,344,089
68: 1,331,005
1,341,638
69: 1,336,737
1,347,387
71: 1,336,896
1,359,057
72: 1,331,548
73: 1,341,304
75: 1,356,422
76: 1,358,303
81: 1,327,965
1,332,508
1,332,839
1,348,567
1,351,162
82: 1,352,531
1,357,321
85: 1,333,051
86: 1,339,562
1,344,609
1,345,379
1,352,792
1,360,406
1,361,922
87: 1,331,428
88: 1,349,048
1,349,290
89: 1,329,983
91: 1,339,584
1,353,080
1,360,056
1,362,713
93: 1,350,160
1,360,569
94: 1,327,393
1,331,409
1,341,965
1,353,050
1,355,354
95: 1,349,457
1,351,896
1,358,385
96: 1,333,494
1,333,917
1,351,201
97: 1,331,962
1,350,673
1,352,016
1,355,486
98: 1,327,397
1,351,120

221— 11: 1,328,704
1,339,245
1,347,446
14: 1,355,210
1,361,419
15: 1,327,156

221— 15: 1,327,389
1,359,730
16: 1,345,965
22: 1,335,084
23: 1,328,104
1,329,184
1,330,803
1,340,242
1,342,399
1,343,782
1,343,921
1,344,801
1,347,112
1,348,519
1,354,110
1,355,010
1,360,211
24: 1,339,578
1,339,982
1,342,639
25: 1,362,186
26: 1,330,538
1,347,465
27: 1,327,067
1,328,881
28: 1,361,290
32: 1,339,765
43: 1,340,954
47: 1,329,229
1,329,662
1,336,953
1,341,652
51: 1,331,004
1,337,688
54: 1,340,406
60: 1,327,190
1,334,344
1,345,511
1,346,897
1,352,355
1,352,425
1,353,747
1,354,921
1,356,837
1,357,024
1,363,064
61: 1,340,217
62: 1,330,351
1,331,547
1,343,825
1,357,555
64: 1,341,951
1,345,975
67: 1,330,100
1,338,378
72: 1,340,534
73.5: 1,331,473
1,353,320
1,359,795
1,360,559
74: 1,336,983
1,352,788
77: 1,328,133
78: R. 14,819
1,329,199
1,330,539
1,330,728
1,333,547
1,337,029
1,339,237
1,339,916
1,341,148
79: 1,328,567
1,338,743
1,340,043
1,340,726
80: 1,328,768
1,330,987
1,332,392
1,338,814
1,349,994
83: 1,339,626
84: 1,344,478
85: 1,340,078
1,349,543
95: 1,327,112
1,327,686
1,335,706
1,342,173
1,364,003
97: 1,358,857
98: 1,328,184
1,332,407
99: 1,327,425
1,329,887
1,341,189
1,341,711
1,349,465
1,351,510
1,352,320
1,360,761
100: 1,327,111
1,330,994

221— 100: 1,331,615
1,339,522
1,341,263
1,344,949
1,345,837
1,347,108
1,348,890
1,350,517
1,351,302
1,352,645
1,358,771
1,360,134
101: 1,328,101
102: 1,331,552
1,334,769
1,345,738
1,345,774
1,361,891
103: 1,327,990
1,336,187
1,340,590
1,343,606
1,344,985
1,352,270
1,352,664
1,359,004
1,362,077
104: 1,341,174
1,343,924
1,349,121
106: 1,341,297
1,345,865
1,355,279
107: 1,353,467
111: 1,329,472
1,337,440
1,360,455
112: 1,349,228
113: 1,338,229
1,355,562
114: 1,332,998
1,335,800
1,339,635
1,358,280
1,361,146
115: 1,350,739
116: 1,356,816
117: 1,330,939
118: 1,327,455
1,330,275
120: 1,332,126
122: 1,330,365
1,339,557
1,343,802
123: 1,342,333
124: 1,331,235
127: 1,327,971
1,336,124
1,352,411
1,353,356
1,361,043
130: 1,337,421
135: 1,331,341
136: 1,329,597
1,359,738
137: 1,358,747
142: 1,342,948
143: 1,343,286

222— 4: 1,350,534
7: 1,350,750
1,358,759
1,358,760
1,358,761

223— 14: 1,337,884
15: 1,351,079
17: 1,329,919
1,338,031
1,344,612
1,345,739
1,348,922
1,352,845
1,354,438
1,355,317
18: 1,340,950
1,351,180
19: 1,330,010
1,330,356
1,331,419
1,331,886
1,332,147
1,332,368
1,332,741
1,335,382
1,335,436
1,338,189
1,343,397
1,346,552
1,358,400
1,362,839
20: 1,342,937
1,348,077
1,355,947
21: 1,342,147

Digitized by Google

223— 21: 1,361,658
22: 1,357,660
30: 1,350,687
31: 1,335,197
1,339,305
1,343,185
32: 1,343,729
1,356,992
36: 1,356,336
1,360,400
37: 1,341,357
1,345,422
38: 1,337,480
1,351,418
1,356,124
44: 1,345,474
52: 1,335,805
53: 1,331,236
54: 1,349,225
1,353,632
55: 1,333,085
1,340,665
1,341,409
57: 1,327,581
59: 1,329,710
60: 1,332,750
1,340,224
1,357,086
1,357,874
224— 0.5: 1,346,329
1: 1,332,088
2: 1,342,395
4: 1,326,934
5: 1,340,076
1,340,077
1,340,957
1,353,858
6: 1,328,832
1,330,485
7: 1,341,722
1,350,390
11: 1,334,582
15: 1,345,864
19: 1,344,377
21: 1,327,355
1,343,726
23: 1,338,776
1,338,794
1,338,795
1,338,797
1,339,794
1,339,795
1,340,141
1,340,142
R 14,989
1,352,133
1,352,453
26: 1,331,508
1,352,863
1,361,761
28: 1,342,301
29: 1,327,097
1,327,223
1,327,261
1,327,626
1,327,742
1,328,316
1,328,863
1,329,174
1,329,475
1,330,102
1,331,124
1,331,244
1,331,245
1,331,354
1,331,926
1,332,517
1,333,206
1,337,647
1,337,911
1,338,630
1,340,431
1,340,799
1,342,557
1,343,964
1,344,202
1,344,729
1,344,944
1,346,083
1,346,581
1,346,964
1,347,561
1,347,562
1,349,270
1,349,501
1,349,890
1,350,372
1,350,797
1,350,897
1,351,517
1,352,559
1,352,595
1,353,762

224— 29: 1,353,920
1,354,161
1,354,829
1,355,187
1,356,274
1,356,328
1,356,385
1,356,742
1,357,005
1,357,431
1,357,593
1,357,736
1,358,801
1,358,813
1,359,446
1,359,483
1,359,676
1,361,056
1,361,306
1,361,745
1,362,654
32: 1,359,329
35: 1,362,182
45: 1,362,933
47: 1,329,574
1,359,320
48: 1,338,192
1,341,869
49: 1,327,080
50: 1,338,066
56: 1,335,888
225— 2: 1,328,980
1,340,769
21: 1,327,189
1,332,945
1,334,923
1,347,576
1,352,475
23: 1,351,924
25: 1,336,070
26: 1,327,162
1,356,006
1,359,050
28: 1,335,874
30: 1,357,228
31: 1,360,298
35: 1,361,943
40: 1,337,206
226— 1: 1,348,347
2: 1,339,995
10: 1,360,438
14: 1,345,926
1,354,250
1,361,725
15: 1,348,649
19: 1,329,110
1,353,613
20: 1,336,719
21: 1,345,347
29: 1,358,218
31: 1,358,393
32: 1,333,756
33: 1,355,952
1,357,490
36: 1,347,383
37: 1,341,563
1,343,867
1,353,712
44: 1,334,745
46: 1,331,160
53: 1,353,210
55: 1,336,012
1,359,082
58: 1,348,992
1,360,556
63: 1,353,069
70: 1,350,249
71: 1,341,487
72: 1,340,200
1,341,277
75: 1,347,914
77: 1,331,015
1,337,410
1,358,031
82: 1,332,738
1,346,434
1,348,808
1,362,203
83: 1,332,379
84: 1,332,364
1,332,737
1,333,925
1,338,656
1,341,163
1,348,908
1,348,973
1,349,097
1,350,405
1,350,477
1,351,539
1,355,912
1,356,161
1,358,145

226— 84: 1,359,534
1,362,776
1,362,904
1,363,170
86: 1,331,182
1,353,628
1,353,718
1,353,719
89: 1,363,824
92: 1,333,086
1,358,797
1,360,463
93: 1,335,819
1,337,558
1,342,559
95: 1,346,613
96: 1,344,653
1,346,141
1,359,367
97: 1,340,185
98: 1,354,635
1,355,015
99: 1,346,948
101: 1,337,743
1,350,161
105: 1,333,299
106: 1,360,023
108: 1,338,429
109: 1,336,071
120: 1,338,662
124: 1,354,599
1,355,016
125: 1,341,447
1,352,165
127: 1,340,814
227— 5: 1,343,642
1,346,787
6: 1,332,011
1,360,924
9: 1,350,708
10: 1,357,668
20: 1,348,872
22: 1,352,230
1,360,831
25: 1,340,146
28: 1,351,734
1,357,962
81: 1,328,251
228— 2: 1,330,162
1,333,344
1,335,052
1,337,361
4: 1,343,500
5: 1,361,828
9: 1,359,680
15: 1,335,182
17: 1,354,370
23: 1,342,153
1,359,297
1,360,854
25: 1,351,146
27: 1,357,171
29: 1,341,707
1,342,542
31: 1,331,953
1,345,990
33: 1,342,881
1,347,600
1,350,242
37: 1,332,262
38: 1,337,666
40: 1,328,037
1,340,627
1,349,125
1,358,564
50: 1,344,371
52: 1,352,055
54: 1,329,924
1,343,094
55: 1,340,688
58: 1,343,445
1,344,886
1,346,518
1,353,270
1,356,749
60: 1,352,566
61: 1,346,299
1,352,823
1,354,166
62: 1,331,954
63: 1,329,740
1,330,956
1,346,831
64: 1,352,830
68: 1,327,808
1,337,657
1,338,100
229— 1: 1,330,033
1,347,231
3: 1,342,013
1,343,724
1,345,021
1,345,036

229— 3: 1,361,370
1,362,090
1,362,233
4: 1,328,317
5: 1,343,235
6: 1,329,466
1,329,531
1,330,300
1,330,780
1,337,630
1,338,744
1,343,252
1,349,535
1,353,629
1,363,616
7: 1,362,332
8: 1,357,866
1,361,628
10: 1,336,874
11: 1,359,895
12: 1,333,746
1,334,302
14: 1,333,155
1,339,430
1,343,391
1,344,147
15: 1,328,524
1,350,744
1,361,318
16: 1,331,395
1,337,507
1,339,334
1,342,769
1,345,784
1,352,759
1,358,875
1,359,708
17: 1,331,006
1,337,368
1,341,893
1,342,770
23: 1,334,046
1,347,309
27: 1,337,091
28: 1,358,808
29: 1,327,946
1,347,899
30: 1,332,204
32: 1,343,193
1,356,895
1,357,519
34: 1,354,012
1,354,344
1,360,042
35: 1,329,690
1,335,701
1,352,833
36: 1,355,325
1,358,006
38: 1,351,278
39: 1,328,935
1,334,687
1,343,002
40: 1,339,339
1,347,530
41: 1,335,128
1,338,664
1,362,129
42: 1,345,711
1,354,413
43: 1,348,725
1,357,304
1,361,618
44: 1,337,087
45: 1,341,429
46: 1,331,330
1,354,656
49: 1,361,965
52: 1,354,253
1,358,008
53: 1,341,831
1,341,834
1,351,412
1,363,196
54: 1,349,645
1,355,353
55: 1,333,714
1,333,717
62: 1,331,066
1,346,852
1,359,856
63: 1,357,789
65: 1,357,517
68: 1,335,814
1,336,092
1,340,553
1,343,075
1,355,866
71: 1,358,436
72: 1,334,138
1,335,655
1,339,392
1,347,797

229— 72: 1,352,972
73: 1,344,071
1,344,394
1,354,092
1,356,872
75: 1,349,061
1,350,928
1,359,063
76: 1,340,555
1,357,961
77: 1,348,243
78: 1,335,850
1,335,851
1,336,029
1,358,234
1,360,793
79: 1,351,559
80: 1,340,854
81: 1,336,646
1,351,851
82: 1,347,609
1,358,846
84: 1,334,967
86: 1,328,028
1,335,183
87.5: 1,330,259
92: 1,355,804
92.1: 1,340,114
1,359,326
1,362,779
92.3: 1,343,419
92.7: 1,345,961
1,363,252
230— 1: 1,328,055
1,328,255
1,332,002
1,332,875
1,333,925
1,334,781
1,334,958
1,337,560
1,337,644
1,339,131
1,354,098
1,354,916
1,355,145
1,357,261
1,357,366
2: 1,330,770
1,336,396
1,343,004
1,350,396
1,351,210
1,355,941
1,356,496
1,356,710
5: 1,332,806
1,339,363
6: 1,346,165
1,346,699
1,350,551
1,358,798
1,360,910
7: 1,328,353
1,338,810
1,339,169
8: 1,358,274
11: 1,327,218
1,327,926
1,328,285
1,328,679
1,329,668
1,330,547
1,331,710
1,333,294
1,338,486
1,341,882
1,342,592
1,345,638
1,345,951
1,345,952
1,346,796
1,347,786
1,350,191
1,350,745
1,350,927
1,350,941
1,354,673
1,356,508
1,363,959
13: 1,327,294
1,328,270
1,329,549
1,330,556
1,331,230
1,333,346
1,335,829
1,343,922
1,344,967
1,345,039
1,346,408
1,346,980

230— 13: 1,356,674
1,359,907
1,362,515
14: 1,345,640
1,354,085
1,354,240
1,361,189
1,361,190
1,361,191
16: 1,346,910
1,352,856
1,353,897
22: 1,347,434
1,357,872
24: 1,328,984
1,330,458
1,333,382
1,336,301
1,343,975
1,345,884
1,345,902
1,352,265
1,353,098
1,356,811
1,363,204
27: 1,327,783
1,327,833
1,328,232
1,328,340
1,328,529
1,329,165
1,329,348
1,330,266
1,331,233
1,332,293
1,332,995
1,333,211
1,333,923
1,334,073
1,334,567
1,334,857
1,334,858
1,335,061
1,335,718
1,337,132
1,338,621
1,338,711
1,342,338
1,346,284
1,350,926
1,351,176
1,351,503
1,351,847
1,352,013
1,352,348
1,356,160
1,356,857
1,357,402
1,360,611
1,362,004
1,362,374
1,362,485
1,363,621
1,363,788
1,363,898
28: 1,353,216
29: 1,346,404
1,347,512
30: 1,335,577
1,336,845
1,338,839
1,345,955
1,350,159
1,352,107
1,352,750
1,352,751
1,354,402
1,358,176
1,359,792
1,364,014
31: 1,349,199
32: 1,331,111
1,331,209
1,332,698
1,333,774
1,343,270
1,344,994
1,345,978
1,358,259
33: 1,327,975
1,340,210
1,352,385
1,353,258
1,356,286
34: R 14,789
1,354,190
1,356,205
1,361,933
36: 1,327,731
37: 1,329,646
1,333,753
1,351,269
96.2: 1,347,939

Digitized by Google

Classification of patents—Continued.

231— 41: 1,363,168
232— 1: 1,350,397
1,356,301
1,362,798
4: 1,330,703
1,336,228
1,340,377
6: 1,356,981
1,357,774
7: 1,353,970
8: 1,335,963
12: 1,355,584
19: 1,327,957
1,344,281
24: 1,359,412
25: 1,362,949
28: 1,362,941
32: 1,354,946
34: 1,334,106
1,346,789
40: 1,336,417
1,337,089
1,350,770
41: 1,334,777
1,338,659
1,346,431
1,351,359
1,353,498
1,354,500
1,358,866
1,359,742
1,360,786
42: 1,336,826
1,341,607
1,346,174
1,346,901
1,360,578
1,363,397
45: 1,332,818
1,342,890
62: 1,343,151
233— 1: 1,349,225
2: 1,355,559
7: 1,356,905
14: 1,356,665
18: 1,350,009
19: 1,344,519
20: 1,344,055
21: 1,358,897
1,363,699
26: 1,334,109
29: 1,351,198
32: 1,339,211
43: 1,328,084
45: 1,332,600
1,335,784
46: 1,327,004
47: 1,331,779
234— 1: R. 15,013
1,332,065
1,336,113
1,347,787
1,351,671
1,352,150
1,352,694
1,354,445
1,360,567
1,360,768
1.5: 1,335,596
1,339,381
1,357,715
1,360,823
1,363,846
5.5: 1,335,125
1,336,611
1,350,174
1,358,896
1,361,362
1,361,676
9: 1,360,591
10: 1,336,090
1,350,705
11: 1,338,715
1,353,298
12.3: 1,354,554
17: 1,337,172
19: 1,334,912
1,363,139
21: 1,336,810
26: 1,330,898
27.5: 1,345,626
1,350,355
28: 1,341,014
30: 1,347,676
33: 1,356,116
34: 1,329,886
1,348,791
1,356,322
1,358,921
34.5: 1,327,989
36: 1,334,956
37: 1,354,674
37.5: 1,331,151
234— 39: 1,328,223
1,351,056
40: 1,340,578
43: R. 14,015
1,328,840
1,332,907
1,344,059
1,348,218
1,354,901
1,357,461
1,358,284
44: 1,327,334
46: 1,348,217
53: 1,332,372
54: 1,332,959
1,332,960
55: 1,338,413
235— 1: 1,343,635
1,354,816
1,355,183
1,361,656
2: 1,327,153
1,338,903
1,340,827
3: 1,336,693
1,338,876
1,348,573
1,355,816
9: 1,360,151
17: 1,340,231
22: 1,337,441
25: 1,339,272
26: 1,334,533
1,336,028
32: 1,329,340
1,334,071
1,344,840
1,344,841
1,344,842
1,344,898
1,355,873
1,355,875
1,356,947
50: 1,328,550
51: 1,363,885
55: 1,342,476
1,360,799
58: 1,333,253
1,333,307
1,334,743
1,335,066
1,335,067
1,335,068
1,335,069
1,335,285
1,335,794
1,336,192
1,338,282
1,341,049
1,348,942
59: 1,329,014
1,329,367
1,331,338
1,332,342
1,334,278
1,334,316
1,339,993
1,345,102
1,345,460
1,345,877
1,347,245
1,346,367
1,347,621
1,349,024
1,349,246
1,349,247
1,349,386
1,349,561
1,350,387
1,355,865
1,356,177
1,356,279
1,356,525
1,356,886
1,356,916
1,358,114
1,358,263
1,359,270
1,360,145
1,362,180
1,362,549
1,362,550
60: 1,328,822
1,328,847
1,329,028
1,329,871
1,330,278
1,330,652
1,330,893
1,332,218
1,332,543
1,333,167
1,333,277
235— 60: 1,335,815
1,336,840
1,336,904
1,337,844
1,338,012
1,338,014
1,338,467
1,339,542
1,339,704
1,339,796
1,342,969
1,344,191
1,348,564
1,349,049
1,350,173
1,351,062
1,352,593
1,354,839
1,355,258
1,356,072
1,356,232
1,357,184
1,359,173
1,359,231
61: 1,331,893
1,332,210
1,335,070
1,343,198
1,345,697
1,345,698
1,345,699
1,345,700
1,345,701
1,345,702
1,345,703
1,345,704
1,345,705
1,345,706
1,345,707
1,347,014
1,349,081
1,350,620
1,357,659
61.5: 1,364,039
62: 1,353,293
1,357,423
63: 1,352,029
1,352,030
66: 1,349,194
69: 1,335,447
1,350,727
70: 1,329,902
1,330,132
1,343,549
71: 1,341,962
73: 1,338,274
74: 1,344,190
78: 1,336,990
79: 1,334,974
1,337,599
1,338,481
1,348,576
1,360,091
1,361,542
80: 1,361,949
82: 1,327,318
1,327,319
1,327,320
1,329,262
1,330,651
1,330,682
1,340,374
1,342,459
1,345,781
1,254,884
1,356,605
83: 1,327,177
85: 1,338,588
86: 1,327,044
1,336,686
87: 1,333,078
1,343,660
89: 1,336,900
1,354,375
90: 1,330,138
1,346,987
91: 1,326,978
1,329,090
1,335,274
1,343,875
1,345,769
1,350,850
1,355,541
1,359,484
1,361,421
1,361,791
92: 1,328,263
1,340,435
95: 1,326,967
1,354,003
1,357,422
1,358,082
1,561,008
235— 95: 1,362,267
97: 1,340,493
98: 1,333,975
1,339,744
99: 1,356,074
100: 1,344,086
102: 1,346,115
103: 1,355,440
104: 1,346,100
1,356,883
105: 1,340,036
117: 1,333,061
125: 1,360,851
128: 1,329,433
1,330,888
1,358,698
130: 1,360,322
131: 1,348,575
1,349,628
1,354,778
132: 1,349,256
133: 1,354,841
1,358,427
137: 1,354,840
1,355,565
139: 1,332,233
1,341,995
144: 1,330,653
1,335,349
1,343,988
1,352,973
1,353,504
1,356,607
1,357,747
1,357,748
1,358,058
1,358,517
1,358,817
236— 1: 1,348,379
1,356,804
1,358,071
1,358,072
1,358,838
1,358,947
4: 1,358,953
5: 1,338,024
6: 1,348,784
1,350,061
7: 1,334,667
10: 1,348,588
1,348,589
1,358,073
12: R. 14,836
13: 1,336,072
14: 1,334,368
1,338,900
1,338,901
1,338,902
1,338,923
1,338,926
1,338,927
1,338,928
1,339,055
15: 1,330,600
1,334,776
1,338,899
1,339,964
1,345,652
1,346,529
16: 1,327,796
18: R. 14,843
1,328,277
19: 1,344,423
20: R. 15,000
21: 1,353,174
22: 1,344,422
23: 1,356,121
24: 1,330,362
25: 1,338,929
1,362,991
26: 1,335,008
1,337,701
1,338,080
1,338,081
1,350,065
1,361,336
1,361,727
32: 1,328,997
33: 1,339,368
1,347,329
1,354,373
34: 1,337,907
1,348,420
35: 1,331,100
37: 1,360,251
38: 1,358,723
40: 1,339,057
44: 1,329,112
1,330,920
1,331,081
1,338,916
1,340,939
1,343,873
236— 44: 1,343,894
1,351,647
45: 1,341,881
1,343,162
46: 1,333,221
1,353,434
1,355,135
48: 1,327,277
1,340,513
1,357,960
49: 1,358,193
50: 1,330,215
53: 1,345,938
56: 1,340,958
1,353,767
58: 1,351,037
1,352,808
1,355,250
1,363,447
62: 1,364,062
64: 1,341,016
76: 1,359,941
78: 1,334,275
1,334,697
1,336,515
1,349,954
80: R. 14,894
R. 14,895
1,327,675
85: 1,340,106
1,358,909
86: 1,351,426
95: 1,352,685
99: 1,347,689
102: 1,329,650
1,356,122
237— 1: 1,350,968
2: 1,343,330
3: 1,339,264
1,346,688
6: 1,360,519
9: 1,338,961
12.3: 1,327,869
1,331,384
1,332,053
1,337,946
1,340,314
1,358,451
14: 1,349,175
1,355,602
16: 1,336,816
17: 1,339,813
1,342,509
1,350,066
32: 1,328,820
48: 1,336,901
50: 1,340,718
56: 1,342,214
1,353,844
61: 1,345,149
63: 1,326,944
78: 1,336,225
1,336,860
1,343,718
1,353,744
79: 1,327,877
1,329,836
1,343,414
1,351,093
1,352,477
1,358,994
1,361,372
238— 3: 1,329,264
1,342,002
1,357,860
4: 1,332,820
1,350,872
5: 1,334,790
1,339,356
1,348,060
1,351,007
7: 1,339,046
1,346,312
1,350,760
1,370,900
8: 1,343,869
1,346,011
1,354,935
9: 1,340,451
10: 1,333,322
1,333,584
1,342,281
1,353,577
1,358,924
1,359,413
12: 1,340,992
1,341,354
14: 1,335,546
1,339,612
1,344,238
1,347,405
16: 1,353,723
17: 1,337,544
238— 17: 1,352,356
24: 1,347,595
26: 1,328,002
1,328,790
1,354,000
27: 1,327,219
30: 1,330,276
1,330,277
1,334,613
1,339,301
1,341,587
1,351,466
1,362,484
31: 1,343,813
1,346,651
1,354,366
32: 1,349,171
1,363,733
35: 1,357,236
36: 1,346,609
37: 1,331,809
1,344,926
38: 1,328,574
1,329,692
1,354,258
46: 1,328,113
1,337,851
1,360,302
47: 1,361,414
48: 1,333,173
1,358,764
1,362,608
49: 1,359,123
51: 1,354,239
1,361,901
1,363,100
53: 1,353,412
57: 1,356,417
59: 1,337,862
1,350,381
61: 1,343,262
62: 1,333,484
1,342,420
1,346,305
1,354,536
1,360,594
1,362,903
63: 1,361,579
64: 1,331,114
1,338,590
1,348,344
65: 1,329,648
1,341,090
1,357,477
1,358,288
66: 1,345,572
69: 1,335,241
73: 1,357,180
75: 1,349,949
77: 1,355,284
79: 1,331,670
84: 1,353,843
91: 1,330,295
1,350,420
1,358,468
1,362,561
99: 1,345,287
106: 1,350,416
1,354,858
112: 1,349,754
114: 1,329,538
115: 1,334,815
1,362,453
116: 1,348,460
1,361,750
117: 1,344,676
122: 1,343,001
128: 1,356,584
1,361,428
130: 1,355,400
134: 1,340,454
141: 1,353,771
143: 1,346,394
144: 1,346,168
145: 1,327,541
146: 1,350,198
1,357,635
150: 1,348,678
152: 1,333,526
156: 1,361,816
158: 1,349,352
159: 1,351,666
164: 1,332,207
1,333,431
1,347,877
1,361,379
166: 1,357,584
169: 1,353,572
175: 1,363,322
177: 1,356,629
178: 1,341,446
179: 1,332,792
1,335,751

Digitized by Google

Classification of patents—Continued.

238— 179: 1,342,228
180: 1,328,170
183: 1,331,293
186: 1,352,669
188: 1,344,604
1,355,078
1,361,818
191: 1,335,693
1,353,653
193: 1,348,075
195: 1,333,877
1,346,656
1,359,205
197: 1,344,336
198: 1,336,915
1,348,067
200: 1,355,154
205: 1,336,099
1,342,065
1,347,414
1,348,244
1,350,182
206: 1,342,251
207: 1,342,323
209: 1,350,129
210: 1,345,126
1,345,389
213: 1,353,868
216: 1,334,602
1,341,931
1,349,814
221: 1,361,507
222: 1,359,233
226: 1,342,377
1,347,376
231: 1,343,605
232: 1,331,396
1,356,931
235: 1,329,507
1,331,447
1,346,384
1,362,957
236: 1,360,697
237: 1,342,006
1,350,783
241: 1,350,215
242: 1,331,031
243: 1,329,982
1,348,345
1,361,774
1,361,775
246: 1,363,574
250: 1,328,155
253: 1,349,607
256: 1,341,573
260: 1,337,365
262: 1,329,227
1,334,889
1,336,483
1,351,786
1,357,370
1,363,080
264: 1,329,363
265: 1,348,112
1,351,819
1,361,443
1,361,532
269: 1,347,427
271: 1,343,814
272: 1,328,917
1,348,749
1,358,066
274: 1,329,879
275: 1,355,707
279: 1,343,070
280: 1,337,621
285: 1,345,958
286: 1,329,205
1,339,345
1,355,891
1,355,892
1,358,661
288: 1,354,292
290: 1,332,117
1,358,832
291: 1,338,016
1,338,431
1,346,398
1,360,685
292: 1,342,194
1,344,109
1,355,814
294: 1,333,235
1,342,661
295: 1,329,163
1,345,413
1,358,529
298: 1,328,695
1,333,860
1,348,370
1,357,178
1,357,179
1,362,508

238— 302: 1,329,077
304: 1,328,533
1,329,654
1,345,428
1,345,844
1,347,989
1,358,585
1,362,732
308: 1,334,673
311: 1,329,153
1,359,854
312: 1,344,808
319: 1,328,405
321: 1,329,580
1,333,270
1,338,149
1,339,123
1,355,302
1,357,419
322: 1,340,135
1,353,204
1,358,726
1,358,727
324: 1,343,553
1,344,016
1,353,206
1,355,949
325: 1,347,302
327: 1,350,321
329: 1,347,301
1,350,689
1,356,689
1,356,690
330: 1,340,478
1,344,014
1,344,015
1,350,676
1,350,677
1,356,688
1,357,350
1,361,982
331: 1,339,718
1,358,256
332: 1,357,941
333: 1,342,078
339: 1,349,310
1,357,570
343: 1,341,609
345: 1,342,196
347: 1,330,752
348: 1,351,073
353: 1,346,965
1,350,855
364: 1,333,894
1,348,286
371: 1,338,444
377: 1,356,450
379: 1,320,739

239— 53: 1,334,748

240— 1: R. 14,805
1,327,918
1,330,027
1,330,028
1,330,130
1,332,619
1,334,570
1,334,604
1,335,520
1,335,832
1,338,524
1,339,085
1,342,330
1,342,777
1,342,778
1,342,894
1,346,172
1,346,350
1,350,295
1,351,375
1,351,562
1,351,756
1,351,935
1,352,252
1,352,995
1,354,583
1,355,007
1,355,193
1,357,404
1,360,527
1,361,344
1,361,380
1,363,417
1,363,854
2: 1,330,885
1,331,959
1,333,222
1,336,500
1,337,222
1,341,267
1,343,767
1,345,168
1,345,752
1,349,360

240— 2: 1,349,804
1,350,916
1,351,675
1,352,779
1,353,469
1,354,594
1,356,602
1,357,824
1,358,926
1,363,016
3: 1,339,304
1,360,417
4: 1,332,145
1,352,349
1,353,033
1,361,241
7: 1,327,732
1,328,692
1,330,562
1,330,974
1,331,832
1,334,995
1,337,230
1,340,686
1,347,737
1,348,893
1,353,253
1,359,804
1,360,531
1,361,106
1,361,434
1,361,743
1,362,530
1,363,098
1,363,583
8.4: 1,338,239
1,341,559
1,345,962
1,362,432
8.5: 1,326,983
1,327,017
1,331,320
1,332,868
1,333,077
1,333,427
1,334,835
1,335,644
1,336,067
1,338,222
1,340,550
1,341,471
1,342,322
1,346,104
1,346,138
1,347,423
1,348,128
1,349,548
1,349,979
1,350,837
1,353,348
1,354,030
1,354,323
1,355,849
1,358,368
1,538,639
1,358,839
1,360,477
1,361,846
1,361,920
1,363,132
1,363,608
1,363,924
9: 1,344,084
10: 1,349,374
11: 1,335,364
1,349,651
1,350,539
1,351,689
1,363,537
15: 1,338,954
17.5: 1,345,212
1,352,636
1,361,557
20: 1,335,684
22: R. 14,940
1,334,191
1,335,330
1,335,503
1,350,357
1,348,810
1,351,113
1,356,635
23: 1,332,607
1,335,841
1,343,899
25: 1,338,028
1,357,559
26: 1,338,528
1,362,693
29: 1,338,769
1,355,059
32: 1,338,911
37: 1,330,176

240— 37: 1,358,278
1,359,039
1,359,330
39: 1,336,112
41: 1,330,419
1,331,319
1,332,139
1,334,646
1,334,762
1,334,838
1,334,924
1,335,081
1,336,407
1,336,602
1,336,967
1,337,086
1,339,695
1,340,163
1,341,674
1,342,215
1,342,426
1,343,309
1,344,687
1,344,694
1,344,695
1,345,056
1,345,793
1,346,489
1,347,268
1,347,394
1,347,537
1,349,642
1,349,706
1,350,308
1,350,547
1,351,169
1,352,777
1,353,231
1,354,136
1,354,422
1,354,699
1,356,376
1,357,034
1,357,621
1,357,761
1,358,065
1,359,322
1,359,323
1,359,789
1,361,151
1,361,354
1,361,468
1,362,085
1,363,073
1,363,261
1,363,566
42: 1,355,581
44: 1,338,599
1,341,472
1,346,519
1,346,520
1,346,671
1,350,491
1,355,300
1,357,036
45: 1,328,129
1,328,153
1,335,727
1,360,138
45.2: 1,350,811
45.6: 1,352,579
1,353,893
46: 1,347,886
1,352,096
48: 1,335,889
48.2: 1,327,563
1,331,661
1,333,033
1,334,471
1,333,482
1,348,927
1,357,775
1,361,018
48.4: 1,330,481
1,330,766
1,330,916
1,331,211
1,331,422
1,331,813
1,334,754
1,335,918
1,336,837
1,336,951
1,338,675
1,338,824
1,339,604
1,341,128
1,342,744
1,343,886
1,344,164
1,345,073
1,346,410
1,346,497

240— 48.4: 1,346,705
1,346,708
1,348,618
1,349,595
1,350,212
1,350,277
1,352,236
1,354,739
1,355,876
1,355,877
1,360,303
1,362,395
1,363,805
48.6: 1,328,607
1,336,594
1,348,617
1,354,695
1,356,144
1,356,145
1,361,852
49: 1,337,880
50: 1,351,067
51: 1,337,832
52: 1,331,385
1,333,764
1,337,867
1,344,073
1,351,681
1,352,708
1,353,921
1,362,177
1,363,664
53: 1,329,051
1,331,668
57: 1,328,125
1,361,339
58: 1,335,396
59: 1,333,302
1,333,830
1,360,988
60: 1,327,479
61: 1,327,945
1,328,992
1,329,647
1,332,026
1,332,903
1,334,187
1,334,666
1,335,146
1,337,849
1,339,352
1,339,954
1,340,771
1,341,004
1,341,947
1,343,822
103: 1,330,009
1,345,796
1,353,916
1,361,365
105: 1,348,698
106: 1,350,957
1,354,158
108: 1,328,331
1,329,187
1,349,478
1,358,563
1,363,782
109: 1,330,029
1,335,640
110: 1,351,879
111: 1,333,736
1,338,194
1,338,635
1,338,958
1,341,845
1,353,562
1,353,563
1,354,512
115: 1,329,280
1,332,127
1,332,214
1,334,622
1,334,623
1,336,835
1,345,741
1,346,375
1,352,857
1,358,023
119: 1,343,705
163: 1,328,415

241— 1: 1,353,671
1,360,072
1,361,565
2: 1,358,775
1,359,672
1,361,865
3: 1,353,070
1,351,872
1,352,258
1,342,666
1,344,856
1,338,868

240— 78: 1,339,985
1,340,261
1,344,452
1,351,255
1,357,568
1,358,811
1,362,206
1,362,906
1,363,919
81: 1,328,785
1,330,336
1,333,428
1,338,075
1,346,659
1,352,862
1,355,163
1,355,164
1,361,333
1,361,461
85: 1,344,077
1,347,531
1,356,745
1,357,524
1,362,067
1,363,935
87: 1,357,634
88: 1,351,171
90: 1,348,970
91: 1,327,598
1,331,569
92: 1,331,494
1,334,944
1,340,443
1,349,241
1,349,485
1,350,809
1,352,111
1,360,825
1,361,587
1,361,786
93: 1,329,147
1,334,739
1,359,493
96: 1,353,839
97: 1,348,492
1,362,528
98: 1,331,010
100: 1,354,262
1,358,131
102: 1,333,569
1,334,710
1,336,761
1,349,392
1,351,474
1,357,589
1,362,335
103: 1,330,009
1,345,796
1,353,916
1,361,365
105: 1,348,698
106: 1,350,957
1,354,158
108: 1,328,331
1,329,187
1,349,478
1,358,563
1,363,782
109: 1,330,029
1,335,640
110: 1,351,879
111: 1,333,736
1,338,194
1,338,635
1,338,958
1,341,845
1,353,562
1,353,563
1,354,512
115: 1,329,280
1,332,127
1,332,214
1,334,622
1,334,623
1,336,835
1,345,741
1,346,375
1,352,857
1,358,023
119: 1,343,705
163: 1,328,415

241— 1: 1,353,671
1,360,072
1,361,565
2: 1,358,775
1,359,672
1,361,865
3: 1,353,070
1,351,872
1,352,258
1,342,666
1,344,856
1,338,868

Digitized by Google

Classification of patents—Continued.

241— 5: 1,346,374
1,357,745
6: 1,328,931
1,335,334
1,336,053
1,340,455
1,345,193
1,346,342
1,351,567
1,353,483
1,353,992
1,357,293
1,357,929
1,361,713
1,363,241
8: 1,327,035
1,328,406
1,338,859
1,345,750
1,345,800
1,350,915
1,361,983
1,362,179
9: 1,331,457
1,345,017
12: 1,330,739
1,334,514
1,335,927
1,342,704
1,342,930
1,345,969
1,356,341
1,356,955
1,360,290
1,362,925
1,363,028
13: 1,341,668
16: 1,341,406
17: 1,327,041
18: 1,327,199
19: 1,338,850
1,361,113
23: 1,341,033
25: 1,331,654
1,352,903

242— 3: 1,362,824
6: 1,336,328
1,336,329
1,345,957
1,361,945
7: 1,363,422
13: 1,351,230
1,353,269
18: 1,333,853
19: 1,328,196
20: 1,351,442
26: 1,357,434
27: 1,334,427
30: 1,360,902
31: 1,352,930
32: 1,343,481
36: 1,335,426
1,363,051
43: 1,347,626
1,348,491
1,353,474
1,353,475
43.3: 1,343,333
43.6: 1,344,449
1,350,005
1,362,711
44: 1,344,432
1,356,357
1,357,470
1,360,854
1,362,470
1,362,636
45: 1,333,862
46.3: 1,333,632
46.5: 1,343,639
46.6: 1,336,467
47: 1,330,093
53: 1,360,018
55: 1,331,884
1,334,981
1,336,050
1,340,981
1,342,556
1,345,355
1,346,357
1,347,884
1,360,707
1,361,880
56: 1,357,385
57: 1,345,813
1,348,609
58: 1,339,480
60: 1,359,021
61: 1,340,178
1,354,369
66: 1,342,832
1,353,948
1,355,106

242— 66: 1,355,107
68: 1,332,329
1,332,330
1,341,484
1,357,345
1,358,531
69: 1,333,053
70: 1,343,628
1,353,901
1,356,120
1,360,838
1,361,802
71: 1,327,245
1,331,848
1,335,742
1,335,917
1,336,040
1,362,397
72: 1,327,445
1,337,017
1,346,812
74: 1,328,408
1,330,525
1,330,494
1,337,614
1,353,004
75: 1,334,052
1,340,710
1,343,910
1,346,700
76: 1,348,242
1,360,903
77: 1,329,240
1,341,815
1,341,816
1,341,817
1,347,527
1,347,691
1,356,374
1,361,250
78: 1,326,989
1,326,990
84.1: 1,328,696
1,341,519
1,355,695
1,358,852
84.2: 1,333,697
84.4: 1,328,666
1,330,553
1,344,289
1,363,817
84.5: 1,337,857
1,345,072
1,347,529
1,351,249
1,353,113
1,353,816
1,357,670
1,358,049
84.7: 1,353,170
84.8: 1,332,027
1,340,712
85: 1,329,403
1,329,860
1,342,653
91: 1,334,361
1,337,048
1,337,142
92: 1,352,041
95: 1,333,133
1,334,195
1,337,757
1,342,749
1,357,148
1,361,496
1,363,634
97: 1,359,519
1,364,031
106: 1,329,442
1,347,956
109: 1,332,383
1,340,195
1,361,465
110: 1,344,567
111: 1,341,003
112: 1,350,946
113: 1,352,458
1,354,565
115: 1,343,067
1,354,555
116: 1,333,162
117: 1,340,297
1,341,096
1,348,448
1,349,030
118: 1,353,761
1,359,031
119: 1,350,979
120: 1,337,706
123: 1,346,117
126: 1,336,554
128: 1,328,777
1,348,321

242— 130: 1,329,804
1,333,069
1,340,978
1,341,479
1,345,190
134: 1,333,462
1,345,883
136: 1,354,434
137: 1,354,698
139: 1,347,843
1,363,747
141: 1,353,960
143: 1,348,439
146: 1,341,274
1,353,528
147: 1,340,064
1,344,672
149: 1,344,400
1,356,026
151: 1,327,022
1,330,006
152: 1,361,716
155: 1,329,341
156: 1,332,054
1,333,059
1,333,691
1,343,768
1,363,255
159: 1,340,254
1,340,837
1,343,338
164: 1,355,735
243— 6: 1,342,831
7: 1,354,116
10: 1,339,894
1,346,042
14: 1,327,718
1,347,136
15: 1,332,895
32: 1,332,901

244— 1: 1,327,810
1,330,191
1,331,791
1,332,022
1,335,283
1,338,724
1,339,181
1,339,188
1,339,432
1,342,802
1,342,871
1,343,831
1,345,276
1,346,467
1,347,157
1,349,693
1,351,764
1,352,106
1,353,618
1,355,464
1,357,631
1,357,642
1,357,650
1,358,257
1,363,678
2: 1,329,736
1,329,390
1,329,477
1,329,533
1,332,567
1,332,602
1,332,764
1,332,901
1,333,329
1,334,184
1,336,633
1,336,634
1,337,661
1,340,225
1,340,483
1,340,786
1,341,202
1,342,138
1,343,769
1,345,535
1,345,583
1,347,105
1,350,947
1,351,931
1,352,077
1,353,407
1,354,353
1,355,674
1,355,736
1,356,245
1,356,969
1,357,061
1,357,177
1,357,898
1,358,627
1,358,603
1,359,466
1,360,454

244— 2: 1,360,668
1,361,222
1,362,070
1,362,292
1,362,511
1,363,539
1,363,845
2.10: 1,350,211
3: 1,329,584
1,330,329
1,332,107
1,332,780
1,336,030
1,336,601
1,337,032
1,339,570
1,345,417
1,349,335
1,355,423
1,360,646
1,362,578
1,363,618
4: 1,341,248
6: 1,328,040
1,330,389
1,340,053
1,340,309
1,343,428
1,351,301
7: 1,332,787
1,355,111
1,360,922
1,362,436
9: 1,343,055
10: 1,337,409
1,351,069
11: 1,356,329
12: 1,327,530
1,328,421
1,329,062
1,331,617
1,331,807
1,336,406
1,337,515
1,339,336
1,341,029
1,341,624
1,341,641
1,341,886
1,342,998
1,343,433
1,343,498
1,344,520
1,344,999
1,347,857
1,348,373
1,349,242
1,349,942
1,351,976
1,352,600
1,353,147
1,353,177
1,353,669
1,354,826
1,355,256
1,355,624
1,355,738
1,355,751
1,357,541
1,358,596
1,358,915
13: 1,355,109
1,357,240
1,362,466
14: 1,327,125
1,329,342
1,329,368
1,331,289
1,331,402
1,333,257
1,336,651
1,337,151
1,338,128
1,340,960
1,344,314
1,346,107
1,346,570
1,348,463
1,348,971
1,348,983
1,349,116
1,351,742
1,352,343
1,353,501
1,353,544
1,353,957
1,355,315
1,355,741
1,356,850
1,358,487
1,359,619
1,360,621
15: 1,327,529

244— 15: 1,328,211
1,335,690
1,336,069
1,336,946
1,342,145
1,345,726
1,358,453
1,361,751
16: 1,348,743
17: 1,355,110
18: 1,330,346
1,331,993
1,332,129
1,335,852
1,340,914
1,344,283
1,344,961
1,353,455
1,362,997
19: 1,327,514
1,330,921
1,332,175
1,338,247
1,344,486
1,345,101
1,345,159
1,350,201
1,350,454
1,350,455
1,350,456
1,350,982
1,351,821
1,353,692
1,356,534
1,363,615
20: 1,331,299
1,331,617
1,338,025
1,361,810
21: 1,327,592
1,327,932
1,328,413
1,328,425
1,328,848
1,329,359
1,330,274
1,331,705
1,332,113
1,332,150
1,336,982
1,337,336
1,337,788
1,339,227
1,339,528
1,340,259
1,340,423
1,341,783
1,341,794
1,342,221
1,344,044
1,345,333
1,345,582
1,345,970
1,346,214
1,348,704
1,349,513
1,349,782
1,353,130
1,353,131
1,353,378
1,354,225
1,354,367
1,356,999
1,357,772
1,359,207
1,359,689
22: 1,337,403
1,347,965
23: 1,328,143
1,346,956
1,356,381
25: 1,328,369
1,329,156
1,329,393
1,331,221
1,336,947
1,338,435
1,340,214
1,344,297
1,346,327
1,346,993
1,349,923
1,357,360
1,357,902
1,360,976
1,361,276
29: 1,326,945
1,326,946
1,327,055
1,327,183
1,327,543
1,329,415
1,330,464

244— 29: 1,331,300
1,331,628
1,332,344
1,332,345
1,332,743
1,334,085
1,334,615
1,334,707
1,334,972
1,335,055
1,335,527
1,336,160
1,336,161
1,336,405
1,336,473
1,336,632
1,336,678
1,336,977
1,337,762
1,339,332
1,340,450
1,341,567
1,342,385
1,343,850
1,346,472
1,347,952
1,348,548
1,348,934
1,349,460
1,350,145
1,350,579
1,350,938
1,350,948
1,351,538
1,351,905
1,351,918
1,353,212
1,354,687
1,354,728
1,355,088
1,355,355
1,355,510
1,355,989
1,355,990
1,356,206
1,356,289
1,357,950
1,359,345
1,359,590
1,360,198
1,360,756
1,360,901
1,361,502
1,362,965
1,363,794
30: 1,327,339
1,329,480
1,329,489
1,329,682
1,338,564
1,344,034
1,347,670
1,349,526
1,350,266
1,354,677
1,358,325
31: 1,328,963
1,329,478
1,329,846
1,331,150
1,331,187
1,331,359
1,332,930
1,333,620
1,335,609
1,337,157
1,337,951
1,338,836
1,340,154
1,340,626
1,340,707
1,341,399
1,341,758
1,342,353
1,343,707
1,344,244
1,344,765
1,345,024
1,345,885
1,346,772
1,347,040
1,347,084
1,348,374
1,348,679
1,348,996
1,349,677
1,349,770
1,351,743
1,351,852
1,353,538
1,355,611
1,355,767
1,357,073

Digitized by Google

Classification of patents—Continued.

244— 31: 1,357,209
1,358,247
1,358,605
1,359,571
1,360,671
1,361,495
1,362,753
1,363,127
1,363,569
1,363,844
1,363,847
1,363,996
1,363,997
245— 2: 1,339,541
5: 1,329,782
1,336,154
1,339,802
1,361,951
8: 1,329,189
12: 1,329,792
246— 4: 1,331,386
5: 1,330,125
1,345,176
1,355,054
1,355,055
9: 1,350,291
14: 1,341,772
27: 1,353,038
29: 1,351,182
30: 1,357,243
31: 1,353,436
33: 1,330,106
1,331,514
1,337,935
1,353,250
1,359,839
1,361,016
1,362,994
34: 1,328,865
1,345,646
1,356,552
1,356,553
1,359,131
1,363,254
37: 1,327,570
1,333,606
1,358,777
1,363,257
38: 1,351,771
1,360,345
39: 1,335,381
1,344,070
1,347,045
1,354,254
40: 1,345,816
41: 1,341,982
1,352,793
43: 1,354,187
45: 1,342,873
46: 1,344,917
49: 1,337,255
1,339,918
1,340,500
1,351,822
53: 1,348,101
1,348,508
1,348,509
54: 1,344,308
59: 1,333,678
60: 1,331,157
62: 1,327,329
1,361,694
63: 1,342,644
1,346,882
1,354,954
65: 1,332,733
66: 1,356,382
71: 1,336,465
1,336,484
1,342,572
1,361,253
73: 1,355,251
79: 1,362,942
83: 1,336,486
84: 1,334,740
103: 1,335,919
110: 1,328,070
111: 1,354,981
115: 1,331,434
120: 1,348,056
122: 1,360,150
124: 1,342,635
125: 1,329,188
1,362,650
126: 1,328,854
1,343,467
1,344,776
1,349,001
1,360,304
1,363,869
127: 1,356,924
128: 1,338,632
1,344,525

246— 128: 1,357,428
1,361,408
130: 1,348,507
135: 1,359,512
138: 1,334,900
139: 1,352,479
141: 1,363,840
151: 1,337,054
1,346,597
158: 1,343,133
160: 1,333,642
162: 1,362,205
163: 1,346,009
1,358,290
165: 1,355,399
166: 1,361,862
167: 1,351,943
170: 1,344,231
1,344,232
1,349,172
1,352,861
1,353,794
171: 1,349,525
1,358,242
178: 1,330,007
180: 1,327,968
1,360,219
1,360,749
1,360,750
1,361,407
1,361,410
181: 1,327,176
1,341,753
1,363,070
182: 1,334,385
1,339,677
1,350,476
1,362,376
183: 1,362,445
1,362,927
1,363,594
184: 1,363,525
185: 1,347,538
186: 1,335,149
1,339,136
1,343,857
1,345,753
1,361,014
187: 1,332,837
1,336,986
1,345,599
1,349,834
1,353,084
1,356,833
188: 1,349,504
1,355,329
1,362,104
189: 1,356,318
1,363,557
190: 1,347,996
1,349,489
1,349,708
1,349,709
192: 1,329,709
1,349,984
1,352,389
193: 1,334,520
1,335,260
1,356,399
194: 1,327,411
195: 1,335,775
196: 1,331,318
1,360,003
199: 1,359,122
200: 1,329,258
202: 1,363,895
203: 1,330,671
216: 1,330,322
223: 1,328,381
1,328,960
1,340,970
240: 1,331,379
245: 1,332,451
246: 1,329,773
248: 1,337,021
252: 1,336,485
1,341,347
253: 1,333,501
254: 1,357,558
257: 1,351,946
273: 1,341,320
1,344,957
1,359,929
276: 1,338,786
292: 1,331,673
293: 1,356,090
294: 1,328,932
1,348,080
1,348,696
1,349,773
295: 1,337,293
298: 1,336,913
301: 1,329,054

246— 301: 1,332,705
1,344,766
302: 1,341,179
1,349,986
1,359,559
304: 1,345,073
1,361,707
305: 1,332,710
1,356,091
306: 1,350,949
307: 1,353,715
309: 1,330,035
1,335,255
311: 1,355,492
312: 1,360,139
313: 1,346,034
1,350,639
318: 1,327,358
1,333,096
1,360,270
1,363,053
321: 1,331,868
328: 1,350,786
331: 1,355,262
337: 1,333,022
1,348,729
339: 1,334,437
341: 1,336,114
1,354,403
347: 1,352,088
349: 1,362,029
351: 1,358,196
357: 1,350,373
370: 1,344,487
375: 1,337,527
1,344,866
376: 1,331,931
1,347,431
378: 1,340,750
380: 1,338,253
1,362,047
381: 1,354,080
382: 1,355,467
384: 1,328,003
385: 1,358,160
387: 1,327,852
393: 1,341,246
405: 1,336,195
408: 1,330,954
410: 1,348,848
411: 1,357,758
1,360,862
414: 1,331,719
1,333,784
1,348,292
1,353,325
1,358,376
428: 1,327,483
1,329,007
435: 1,332,297
437: 1,334,466
1,343,488
441: 1,341,330
445: 1,341,554
448: 1,345,580
1,358,887
1,364,046
449: 1,344,259
450: 1,330,914
1,344,848
1,359,269
454: 1,340,582
456: 1,339,697
1,339,698
1,348,447
460: 1,327,842
1,335,385
463: 1,340,205
464: 1,342,332
476: 1,341,161
1,352,801
477: 1,361,308
1,361,309
479: 1,328,194
484: 1,330,528
1,330,865
485: 1,342,962
486: 1,360,992
487: 1,330,823
1,336,792
1,337,240
1,343,841
1,359,924
488: 1,344,564
489: 1,355,871
247— 1: 1,350,658
5: 1,328,993
6: 1,330,620
7: 1,345,489
1,351,724
10: 1,342,545
1,360,371
1,360,372

247— 10: 1,360,374
11: 1,360,373
12: 1,327,409
1,333,003
1,334,172
1,335,542
13: 1,332,555
1,337,163
1,351,443
17: 1,330,811
19: 1,345,502
1,345,503
20: 1,330,196
1,339,847
1,351,150
1,355,886
1,355,887
1,355,905
21: 1,362,674
23: 1,349,978
40: 1,344,501
157: 1,351,829
248— 1: 1,329,651
1,340,108
1,342,889
1,345,910
1,354,477
1,358,506
1,359,790
2: 1,331,461
3: 1,327,749
1,330,355
1,335,103
1,336,593
1,361,625
6: 1,328,448
7: 1,342,659
8: 1,348,949
1,350,423
9: 1,335,335
11: 1,329,513
1,340,974
11.5: 1,352,495
12: 1,336,785
18: 1,330,262
1,333,934
1,345,977
1,346,895
1,347,116
1,354,270
1,359,349
19: 1,330,318
1,332,051
1,340,426
1,341,198
1,345,344
1,353,353
1,360,180
20: 1,328,271
1,328,930
1,329,593
1,331,268
1,333,258
1,334,048
1,335,250
1,335,369
1,336,809
1,337,234
1,339,018
1,339,163
1,339,288
1,339,449
1,339,792
1,341,935
1,343,499
1,343,965
1,344,344
1,345,042
1,345,252
1,345,463
1,346,944
1,347,611
1,349,051
1,349,566
1,349,842
1,351,244
1,353,898
1,354,693
1,356,312
1,357,893
1,358,322
1,361,752
1,363,231
21: 1,329,816
1,339,843
22: 1,359,117
1,360,103
1,360,104
24: 1,333,600
27: 1,333,092
1,334,891
1,335,902
1,343,363

248— 28.5: 1,344,736
1,354,080
29: 1,337,541
30: 1,329,173
1,331,080
1,332,618
1,334,199
1,334,664
1,334,749
1,337,362
1,337,645
1,338,555
1,338,766
1,341,002
1,342,136
1,343,568
1,344,376
1,346,919
1,349,196
1,349,312
1,349,473
1,350,056
1,355,462
1,357,489
1,358,260
1,358,995
1,360,829
31: 1,332,796
1,341,113
1,343,279
1,354,920
1,362,244
32: 1,327,081
1,343,030
1,352,895
33: 1,331,248
1,336,558
1,349,043
1,352,549
1,363,455
34: 1,339,991
1,344,514
1,356,040
35: 1,326,059
1,332,690
1,354,309
1,362,245
36: 1,328,376
1,328,377
1,328,543
1,331,024
1,334,545
1,335,553
37: 1,333,616
1,339,333
1,349,021
1,352,663
1,355,322
38: 1,333,480
1,334,880
1,335,724
39: 1,362,498
41: 1,329,557
1,329,556
1,329,955
1,332,119
1,334,409
1,334,581
1,335,726
1,336,073
1,338,437
1,338,486
1,338,781
1,346,887
1,349,017
1,357,250
1,359,138
1,359,277
1,359,535
1,360,247
42: 1,346,913
1,348,665
1,350,710
1,358,651
43: 1,351,990
1,358,402
1,361,469
46: 1,357,039
48: 1,343,855
1,347,009
49: 1,343,381
50: 1,328,162
57: 1,343,340
58: 1,335,796
1,345,857
1,351,923
1,357,646
63: 1,361,842
64: 1,358,616
182: 1,340,068
249— 1: 1,334,220
1,336,705
1,337,842

249— 1: 1,346,684
2: 1,347,147
3: 1,333,095
15: 1,363,253
16: 1,345,866
18: 1,353,139
19: 1,342,670
1,354,394
27: 1,329,151
28: 1,330,918
32: 1,358,003
35: 1,351,284
48: 1,350,611
52: 1,340,822
56: 1,345,838
58: 1,339,539
65: 1,327,644
183: 1,360,467
250— 1: 1,337,737
1,343,393
1,350,954
1,352,940
2: 1,345,586
1,356,488
1,359,581
3: 1,331,640
6: R. 14,959
R. 14,967
1,330,471
1,340,101
1,341,211
1,347,328
1,348,213
1,353,698
1,360,740
8: 1,333,376
1,343,165
1,343,562
1,348,157
1,351,776
1,354,932
1,356,686
1,363,319
9: 1,350,911
11: 1,342,257
1,347,440
1,352,242
1,357,210
1,359,979
1,360,167
14: 1,361,813
17: 1,339,772
1,349,729
1,358,144
19: 1,328,610
1,330,254
1,339,191
1,344,052
1,350,695
1,350,801
1,352,059
1,352,883
1,352,886
1,358,143
20: 1,328,933
1,329,672
1,334,118
1,334,165
1,336,378
1,336,398
1,339,927
1,342,885
1,344,275
1,350,100
1,350,912
1,353,002
1,354,290
1,356,751
1,356,752
1,361,487
1,362,383
1,362,612
27: 1,328,041
1,329,283
1,329,758
1,330,935
1,334,150
1,335,159
1,338,889
1,340,575
1,341,006
1,342,390
1,343,551
1,353,976
1,354,939
1,359,310
1,361,099
32: 1,338,756
33: 1,349,103
1,349,104
1,353,735
1,360,168
1,360,169

Digitized by Google

Classification of patents—Continued.

250— 34: 1,328,495
1,333,249
1,334,136
1,337,004
1,340,588
1,343,899
1,352,198
1,352,615
1,354,491
1,357,391
1,357,710
35: 1,331,067
1,334,146
1,337,349
1,352,030
1,355,126
1,355,451
1,359,000
36: R. 14,496
1,329,761
1,334,087
1,336,533
1,337,033
1,340,193
1,354,312
1,356,763
1,357,657
37: 1,333,789
1,340,063
1,345,552
1,360,126
38: 1,328,588
1,330,182
39: 1,338,884
40: 1,345,007
1,363,032
41: 1,327,993
1,328,025
1,334,139
1,334,140
1,334,142
1,337,245
1,337,246
1,337,605
1,337,649
1,341,336
1,345,754
1,346,694
1,349,792
1,350,010
1,350,279
1,351,074
1,351,787
1,354,146
1,354,147
1,362,059
251— 1: 1,362,462
4: 1,345,018
1,357,494
5: 1,330,823
1,336,491
1,337,247
1,340,528
1,344,433
1,347,031
1,357,451
1,359,080
1,361,770
6: 1,328,616
1,329,943
1,331,120
1,332,765
1,338,912
1,341,151
1,343,609
1,345,248
1,345,841
1,346,480
1,348,364
1,350,989
1,351,657
1,352,417
1,352,900
1,359,411
1,360,044
7: 1,336,450
8: 1,345,032
1,361,926
9: 1,348,088
10: 1,351,173
11: 1,332,000
1,346,887
1,351,123
13: 1,358,073
18: 1,338,705
1,342,020
1,343,477
1,361,126
19: 1,327,951
1,333,217
20: 1,340,107
24: 1,330,879
1,337,200
251— 29: 1,358,968
33: 1,357,667
34: 1,326,998
36: 1,361,790
38: 1,346,210
1,357,767
40: 1,359,521
43: 1,328,780
1,331,535
1,346,968
1,347,951
44: 1,334,566
1,350,376
1,360,993
45: 1,330,075
46: 1,346,737
1,356,732
47: 1,326,938
1,336,026
1,345,388
1,362,986
48: 1,328,578
1,348,839
1,348,854
1,349,748
1,353,053
1,361,059
49: 1,354,582
51: 1,329,099
52: 1,363,047
53: 1,333,357
54: 1,334,248
1,336,316
56: 1,328,752
1,348,993
62: 1,331,534
68: 1,340,591
1,360,164
70: 1,328,098
75: 1,354,580
76: 1,347,056
77: 1,339,665
78: 1,331,960
1,342,734
1,348,708
1,359,079
84: 1,332,363
1,349,605
1,364,059
85: 1,340,790
88: 1,355,915
90: 1,345,382
91: 1,330,429
1,341,260
1,342,051
1,354,460
93: 1,330,459
94: 1,350,138
98: 1,342,900
1,348,123
99: 1,332,492
1,339,982
100: 1,327,587
101: 1,338,190
1,352,423
103: 1,341,146
1,349,823
105: 1,329,881
1,344,490
106: 1,336,236
1,345,934
1,347,997
1,358,862
107: 1,327,252
1,332,639
108: 1,339,284
1,355,832
109: 1,329,016
1,343,490
112: 1,331,025
1,344,364
1,357,608
113: 1,327,984
115: 1,363,656
118: 1,360,960
119: 1,330,103
1,334,197
1,334,198
1,341,145
1,342,216
1,343,534
1,349,145
1,350,101
1,350,610
1,352,036
1,354,318
1,355,367
1,359,006
121: 1,349,210
1,363,732
122: 1,326,966
1,359,631
123: 1,334,354
251— 123: 1,341,870
125: 1,330,265
1,337,326
1,339,128
126: 1,333,913
1,343,311
1,348,562
1,354,879
127: 1,339,101
1,353,409
1,357,792
129: 1,341,544
132: 1,331,865
1,345,496
1,363,125
133: 1,343,043
1,359,785
134: 1,332,310
1,338,196
1,340,060
1,350,885
136: 1,345,591
137: 1,329,209
1,333,506
1,343,951
139: 1,331,439
141: 1,360,833
144: 1,329,321
1,327,539
1,329,321
1,337,462
1,344,744
1,362,535
145: 1,343,375
1,344,614
1,347,795
1,350,799
1,355,149
1,360,504
146: 1,327,564
147: 1,347,411
149: 1,347,199
158: 1,335,537
155: 1,340,652
1,346,725
156: 1,338,994
159: 1,329,231
1,345,615
1,359,522
160: 1,342,419
1,352,735
1,363,248
162: 1,338,838
1,347,922
165: 1,343,530
1,344,704
1,346,977
1,351,109
1,351,391
167: 1,342,955
241: 1,345,762
252: 1,340,535
252— R. 14,955
1,328,845
1,333,524
1,337,542
1,337,546
1,338,343
1,341,901
1,343,585
1,344,102
1,344,691
1,345,144
1,345,305
1,345,306
1,346,316
1,346,349
1,350,157
1,352,162
1,352,553
1,353,932
1,355,401
1,355,402
1,356,031
1,356,888
1,356,765
1,358,094
1,359,037
1,359,091
1,359,911
1,360,153
1,361,506
1,363,387
1,363,488
1,363,516
253— 1: 1,362,304
1,336,827
2: 1,337,890
1,338,137
3: 1,342,845
1,344,133
6: 1,332,509
8: 1,346,399
253— 14: 1,338,326
16.5: 1,331,318
1,355,090
17: 1,332,012
1,339,183
18: 1,342,613
19: 1,329,244
24: R. 14,962
1,333,509
28: 1,342,100
31: 1,350,187
38: 1,356,578
39: 1,337,998
1,347,343
1,347,344
1,352,743
1,359,902
1,362,323
1,362,401
1,362,405
44: 1,346,292
47: 1,353,360
1,353,687
50: 1,347,500
51: 1,334,252
1,360,305
53: 1,349,487
57: 1,333,061
1,344,193
65: 1,328,835
66: 1,362,963
1,364,012
69: 1,341,273
1,343,956
1,347,591
70: 1,338,409
72: 1,356,106
73: 1,359,210
76: 1,349,386
77: 1,328,640
1,335,002
1,344,311
1,345,642
1,345,678
1,347,031
1,347,327
1,353,710
1,353,797
1,359,227
1,360,036
1,362,074
1,362,853
78: 1,331,999
1,345,674
1,347,003
1,352,276
1,352,277
1,352,278
1,362,437
79: 1,329,626
82: 1,329,515
91: 1,355,235
98: 1,335,031
94: 1,338,708
120: 1,341,859
122: 1,345,493
1,357,440
133: 1,362,420
136: 1,327,953
1,337,478
1,338,399
1,352,088
1,357,609
1,361,467
139: 1,355,165
141: 1,348,578
1,362,722
176: 1,349,397
1,359,948
1,363,315
179: 1,328,010
1,355,231
1,359,472
180: 1,342,551
181: 1,356,063
188: 1,344,009
1,348,033
1,360,576
189: 1,340,091
1,350,724
191: 1,331,071
1,334,461
1,352,831
194: 1,327,812
1,347,732
1,361,107
199: 1,328,190
1,342,552
1,348,980
200: 1,337,659
1,355,982
1,357,028
254— 1: 1,328,115
254— 1: 1,341,856
1,350,970
2: 1,333,239
1,339,827
1,343,864
1,358,512
1,361,257
3: 1,337,804
4: 1,345,992
5: 1,338,255
1,353,564
6: 1,334,476
1,356,198
7: 1,346,710
8: 1,340,150
1,352,426
9: 1,345,564
10: R. 14,839
1,329,995
1,348,294
1,359,372
1,360,112
15: 1,354,332
1,354,854
18: 1,344,628
23: 1,354,532
25: 1,329,458
1,363,014
26: 1,335,615
1,340,401
27: 1,355,275
28: 1,359,777
30: 1,339,024
1,340,676
31: 1,357,853
35: 1,328,770
37: 1,340,523
1,354,277
38: 1,329,436
41: 1,336,223
42: 1,330,613
1,335,480
43: 1,326,953
1,329,185
44: 1,346,225
49: 1,353,838
51: 1,327,492
52: 1,344,485
54: 1,358,433
55: 1,338,096
64: 1,327,024
65: 1,350,287
67: 1,333,254
1,343,336
1,353,973
1,358,552
68: 1,355,389
71: 1,339,407
72: 1,326,965
1,328,599
1,342,625
1,345,265
73: 1,357,435
75: 1,331,321
1,359,160
76: 1,345,310
1,350,994
1,356,683
77: 1,336,027
1,344,312
78: 1,337,719
1,341,241
1,344,472
79: 1,357,154
83: 1,334,865
1,341,698
1,354,203
84: 1,339,459
1,346,474
1,357,057
1,357,058
1,361,186
85: 1,337,065
86: 1,327,905
1,336,620
1,338,589
1,343,274
1,343,845
1,344,036
1,350,036
1,354,338
1,359,044
88: 1,334,509
1,335,969
1,341,620
1,341,621
1,351,506
89: 1,327,060
1,332,596
1,334,431
1,339,186
1,340,749
1,345,842
254— 89: 1,348,627
1,348,851
1,348,867
1,356,011
1,359,531
91: 1,331,671
1,335,858
1,337,519
1,342,389
98: 1,343,701
1,361,909
94: 1,343,275
1,356,697
95: 1,330,348
1,338,682
1,347,862
97: 1,335,782
1,363,240
98: 1,344,575
1,345,135
1,360,557
100: 1,346,324
103: R. 14,991
1,329,665
1,332,598
1,335,479
103: 1,343,782
1,344,117
1,345,797
1,347,006
1,347,228
1,349,101
1,350,663
1,359,849
1,352,207
1,361,593
1,363,668
104: 1,356,413
106: 1,339,581
1,339,582
1,339,583
1,339,613
1,349,576
108: 1,341,305
109: 1,347,792
1,355,842
1,355,843
110: 1,328,306
1,360,762
111: 1,329,098
1,339,377
1,339,926
1,348,879
1,352,472
113: 1,330,306
1,334,482
114: 1,343,430
115: 1,346,447
116: 1,332,584
117: 1,349,195
120: 1,349,581
121: 1,360,960
123: 1,328,609
1,335,885
1,349,502
126: 1,349,801
1,356,033
1,362,630
127: 1,334,914
1,335,630
128: 1,335,931
130: 1,327,685
1,332,404
1,345,178
131: 1,329,116
1,333,583
1,337,125
1,342,057
1,343,862
1,354,529
1,356,699
131.5: 1,353,459
1,353,494
132: 1,363,112
133: 1,349,026
135: 1,327,582
1,329,034
1,352,045
1,357,376
1,357,577
137: 1,353,604
142: 1,358,612
143: 1,332,024
1,352,884
145: 1,332,496
1,339,666
1,341,042
1,348,491
1,352,035
148: 1,359,876
150: 1,351,887
1,356,131
151: 1,341,242

Digitized by Google

Classification of patents—Continued.

254— 161: 1,353,083
1,353,569
1,362,688
162: 1,333,865
1,347,196
1,352,983
1,353,835
164: 1,348,940
166: 1,333,755
1,335,636
1,340,349
1,341,176
1,343,625
1,346,152
1,349,292
1,358,329
1,359,219
167: 1,327,181
168: 1,347,785
171: 1,348,084
172: R. 14,858
1,359,993
1,360,968
173: 1,333,064
175: 1,360,652
176: 1,329,107
1,334,685
177: 1,328,678
1,331,414
179: 1,354,473
184: 1,352,454
1,352,455
185: 1,329,870
1,330,678
1,331,295
1,349,803
1,362,373
186: 1,342,757
1,352,653
1,353,238
1,353,365
1,359,517
188: 1,328,717
1,356,363
1,357,429
190: 1,327,876
1,333,097
1,339,931
1,348,691
1,351,367
1,359,904
192: 1,337,341
1,347,211
1,349,618
1,358,276
1,359,046
1,362,362
193: 1,331,629
194: 1,332,611
1,340,989
195: 1,351,469
255— 1: 1,346,939
1,357,564
1,363,049
3: 1,327,403
4: 1,330,736
1,348,325
1,350,059
11: 1,351,867
1,354,015
13: 1,329,500
14: 1,331,103
15: 1,333,442
1,354,769
19: 1,331,310
1,348,948
1,347,587
1,358,441
1,360,193
22: 1,353,304
1,356,125
23: 1,331,309
1,341,410
1,341,702
1,347,379
1,347,771
1,348,117
1,363,110
24: 1,338,460
1,348,815
25: 1,354,756
1,357,430
26: 1,331,892
1,343,541
1,343,542
28: 1,342,855
1,355,896
1,357,475
33: 1,340,420
35: 1,334,487
1,342,870
1,343,821
1,358,319
255— 36: 1,356,556
37: 1,347,076
1,355,637
1,362,987
41: 1,303,358
42: 1,338,019
1,349,641
45: 1,340,468
1,361,632
46: 1,354,944
1,358,545
47: 1,330,190
50: 1,328,707
1,334,430
51: 1,345,731
1,347,185
1,358,289
1,363,586
52: 1,349,047
61: 1,331,126
1,332,841
1,335,880
1,336,537
1,342,814
1,345,854
1,346,133
1,351,262
1,360,209
1,361,734
1,362,247
64: 1,355,793
1,359,318
69: 1,331,458
1,343,902
70: 1,345,285
71: 1,327,913
1,334,632
1,337,913
1,338,601
1,348,419
72: 1,351,003
73: 1,340,927
1,345,299
75: 1,327,955
1,332,105
1,336,484
1,338,345
1,342,406
1,344,327
1,350,785
1,356,951
1,360,908
1,362,513
76: 1,347,469
1,347,774
1,348,853
1,353,354
1,357,689
1,358,299
78: 1,358,298
1,360,328
1,363,178
256— 3: 1,332,603
1,336,205
5: 1,334,558
13: 1,336,680
14: 1,344,262
1,354,350
1,354,405
15: 1,344,535
1,345,146
18: 1,338,006
21: 1,331,117
1,352,392
31: 1,341,264
46: 1,348,765
48: 1,330,809
50: 1,356,991
52: 1,331,335
1,332,734
1,338,923
1,351,959
1,355,754
54: 1,343,770
1,360,375
56: 1,328,693
58: 1,343,544
1,352,203
1,356,070
73: 1,342,453
1,343,267
1,343,559
1,346,395
257— 2: 1,332,010
1,346,251
7: 1,344,057
1,363,374
16: 1,339,122
22: 1,337,696
1,354,536
24: 1,328,828
1,332,188
1,342,471
257— 24: 1,353,642
1,358,022
25: 1,330,081
1,349,007
1,351,891
1,363,883
28: 1,359,460
30: 1,328,998
1,349,681
37: 1,363,531
40: 1,329,882
1,360,748
43: 1,335,692
1,352,440
1,353,641
1,353,855
1,354,276
45: 1,331,500
51: 1,340,267
80: 1,327,863
83: R. 14,826
1,335,504
88: 1,340,177
89: 1,336,079
92: 1,361,475
98: 1,343,833
1,353,980
104: 1,341,287
107: 1,356,822
111: 1,355,702
119: 1,353,268
1,353,422
125: 1,327,165
1,330,342
1,335,812
1,339,752
1,340,258
1,346,216
1,346,577
1,352,384
1,353,322
1,356,676
1,357,597
1,360,949
1,363,165
128: 1,358,796
129: 1,327,797
1,328,151
1,329,256
1,337,415
1,340,774
1,341,165
1,341,784
1,343,352
1,344,351
1,347,219
1,352,068
1,353,768
1,354,341
1,361,807
130: 1,327,380
1,328,323
1,329,697
1,333,668
1,335,340
1,335,890
1,335,997
1,336,136
1,336,999
1,338,753
1,344,772
1,346,442
1,349,110
1,351,462
1,354,351
1,354,964
1,355,835
1,355,955
1,356,897
1,357,880
1,362,615
1,363,678
131: 1,337,337
132: 1,327,730
1,329,589
1,334,270
1,335,356
1,336,978
1,338,585
1,338,614
1,341,419
1,343,919
1,345,283
1,352,184
1,352,190
1,352,963
1,354,889
1,355,411
1,358,224
133: 1,341,649
134: 1,327,213
136: 1,341,126
1,341,879
257— 136: 1,349,058
1,357,093
137: 1,332,923
138: 1,349,059
1,358,181
139: 1,356,478
240: 1,363,955
241: 1,363,190
142: 1,342,680
147: 1,355,218
149: 1,332,092
151: 1,327,870
1,328,789
1,329,198
1,356,562
155: 1,335,799
158: 1,359,490
165: 1,327,896
166: 1,349,982
1,351,855
167: 1,328,540
171: 1,332,371
172: 1,345,603
175: 1,330,478
178: 1,336,742
179: 1,355,352
1,357,938
184: 1,352,215
191: 1,329,426
198: 1,330,779
1,348,504
200: 1,334,014
205: 1,349,810
1,354,122
206: 1,333,841
1,335,506
207: 1,329,603
1,337,766
211: 1,341,605
224: 1,337,473
1,349,746
1,358,050
227: 1,343,669
1,356,427
229: 1,344,381
1,354,997
236: 1,338,479
1,340,153
1,350,320
1,353,449
239: 1,355,980
240: 1,338,848
1,357,488
241: 1,328,150
1,328,272
1,332,327
1,333,546
1,333,573
1,336,152
1,348,455
1,355,076
243: 1,332,811
1,336,655
1,340,266
246: 1,349,482
247: 1,331,429
248: 1,348,032
1,350,598
1,352,964
254: 1,330,930
255: 1,329,767
257: 1,333,476
263: 1,339,385
258— 1: 1,328,560
1,338,970
1,356,990
1,357,861
2: 1,332,790
3: 1,333,435
1,363,494
7: 1,362,806
8: 1,340,840
1,344,912
1,357,213
1,360,354
10: 1,353,738
11: 1,347,418
13: 1,336,851
20: 1,348,071
21: 1,330,305
1,362,463
23: 1,353,284
1,354,559
1,363,366
24: 1,361,179
26: 1,333,723
1,337,956
1,338,228
1,348,380
1,348,381
1,361,729
180: 1,353,005
259— 1: 1,351,243
259— 3: 1,354,326
5: 1,345,596
6: 1,356,296
8: 1,340,464
9: 1,363,368
11: 1,334,395
17: 1,349,505
1,360,798
24: 1,348,222
1,361,368
34: 1,358,045
44: 1,347,373
47: 1,356,587
48: 1,349,902
49: 1,346,767
50: 1,341,095
51: 1,352,984
54: 1,330,804
57: 1,355,032
72: 1,328,576
1,337,716
1,339,818
1,343,091
1,346,221
1,349,203
1,353,443
1,354,613
73: 1,330,679
1,350,116
1,359,537
75: 1,350,115
1,352,225
1,352,330
1,356,731
1,363,275
81: 1,328,119
1,355,000
1,363,143
83: 1,327,901
84: 1,335,624
85: 1,336,878
1,344,937
1,351,622
88: 1,341,743
91: 1,329,843
1,333,360
1,340,466
1,340,491
1,343,532
1,348,496
92: 1,337,864
93: 1,332,938
94: 1,348,951
95: 1,342,947
96: 1,335,121
1,338,996
1,353,165
1,353,166
1,353,425
1,354,489
1,362,131
97: 1,351,352
99: 1,334,096
1,334,097
1,335,737
1,350,171
1,361,853
100: 1,342,866
101: 1,349,338
104: 1,344,675
105: 1,351,890
1,354,927
107: 1,333,153
1,335,258
1,337,777
1,345,542
108: 1,341,283
1,363,369
109: 1,339,056
1,355,137
1,363,434
113: 1,345,312
122: 1,354,230
125: 1,344,022
126: 1,327,568
1,340,916
131: 1,334,274
1,340,849
1,343,829
134: 1,329,282
1,344,565
1,347,650
1,350,823
135: 1,327,900
1,333,379
144: 1,329,164
1,330,070
261— 11: 1,327,599
12: 1,339,403
261— 12: 1,347,052
1,349,006
1,353,288
1,356,117
13: 1,354,588
16: 1,329,309
18: 1,345,546
1,362,389
19: 1,328,042
23: 1,333,631
1,342,103
25: 1,331,404
30: 1,357,535
34: 1,350,322
35: 1,354,686
39: 1,333,982
1,343,455
40: 1,338,960
41: R. 14,790
1,328,180
1,335,389
1,335,390
1,335,430
1,337,051
1,338,330
1,339,214
1,340,720
1,345,297
1,351,126
1,352,628
1,353,313
1,355,960
1,356,661
1,358,876
1,359,828
1,360,445
43: 1,342,445
44: R. 14,880
1,342,107
1,349,535
1,354,327
45: 1,351,624
46: 1,359,256
48: 1,339,218
1,361,529
49: 1,344,696
1,352,316
1,358,498
50: 1,337,226
1,362,664
1,363,421
51: 1,329,686
52: 1,327,233
1,329,308
62: 1,327,703
1,354,041
64: 1,338,502
66: 1,339,095
1,362,302
72: 1,333,149
1,334,411
75: 1,328,204
1,342,810
76: 1,358,396
79: 1,350,202
83: 1,339,303
84: 1,361,342
85: 1,358,685
92: 1,345,131
93: 1,350,605
94: 1,330,574
1,351,170
95: 1,327,422
1,360,928
99: 1,327,205
100: 1,334,263
103: 1,362,649
108: 1,339,105
110: 1,334,515
111: 1,335,414
1,339,112
115: 1,333,712
1,340,382
117: 1,352,142
1,359,837
118: 1,342,167
121: 1,329,252
1,336,070
1,339,609
122: 1,343,123
1,344,123
131: 1,337,960
134: 1,336,781
1,336,830
141: 1,337,453
1,337,373
262— 1: 1,327,596
1,330,741
1,330,742
1,332,986
1,334,894
2: 1,362,775
3: 1,339,036

Digitized by Google

Classification of patents—Continued.

262— 3: 1,342,741
5: 1,330,743
1,330,744
1,333,627
6: 1,328,118
1,330,825
7: 1,333,491
1,335,723
1,353,908
1,361,996
12: 1,340,731
15: 1,363,004
19: 1,353,188
20: 1,328,372
1,330,907
1,351,131
1,351,604
22: 1,357,010
1,358,984
25: 1,336,440
27: 1,354,831
28: 1,336,927
29: 1,353,054
30: 1,327,052
1,328,755
1,336,039
1,344,201
1,346,966
1,350,706
1,359,126
31: 1,356,640
33: 1,332,745
1,351,892
40: 1,358,206
122: 1,346,201
263— 1: 1,339,190
2: 1,341,028
4: 1,343,045
1,356,188
5: R. 15,008
1,328,330
1,340,770
1,342,032
1,343,092
1,344,021
1,345,188
1,351,342
1,358,945
1,358,414
1,358,912
6: 1,331,044
1,334,307
1,335,048
1,338,003
1,339,564
1,343,019
1,355,836
1,361,254
1,362,232
1,362,369
7: 1,347,719
8: 1,333,971
1,360,334
1,362,736
9: 1,328,468
1,334,309
1,338,472
1,342,958
1,346,952
1,361,329
10: 1,336,196
1,360,058
11: 1,343,470
1,362,429
12: 1,344,878
1,346,927
13: 1,333,629
1,349,159
1,358,621
1,362,555
14: 1,329,470
1,330,227
1,335,779
1,343,943
1,350,467
1,357,494
15: 1,334,465
1,335,202
1,335,203
1,336,280
1,339,855
1,344,436
1,344,437
1,344,458
1,350,024
1,351,801
1,363,787
16: 1,341,299
17: 1,359,532
1,361,709
19: 1,347,796
1,352,481
1,359,488
20: 1,340,104
1,359,756
1,360,457
1,361,671
1,362,063
21: 1,333,327
22: 1,330,219
1,333,343
1,336,814
23: 1,335,490
1,339,252
1,342,694
1,360,210
25: 1,348,889
26: 1,332,152
1,335,271
1,356,849
27: 1,348,525
1,351,451
28: 1,329,907
1,330,223
1,335,204
1,342,041
1,353,818
33: 1,334,459
1,336,137
1,340,690
1,350,865
1,358,620
1,363,188
34: 1,333,796
1,337,244
1,347,024
1,357,664
1,358,327
1,362,412
35: 1,362,296
36: 1,330,244
1,336,499
1,341,661
38: R. 15,009
40: 1,344,690
1,362,297
42: 1,329,873
1,358,330
44: 1,329,278
1,345,749
46: 1,328,511
1,330,052
1,341,970
1,343,457
1,348,151
1,353,830
1,356,859
1,358,703
48: 1,357,782
1,358,816
49: 1,328,030
1,340,673
1,350,427
1,360,639
1,360,932
50: 1,331,989
1,357,790
1,360,587
1,361,977
69: 1,353,997
264— 1: 1,346,071
3: 1,327,633
1,330,120
1,337,865
4: 1,353,865
6: 1,355,008
9: 1,341,066
14: 1,347,276
15: 1,352,189
1,354,608
1,355,294
16: 1,362,689
1,363,745
17: 1,351,660
18: 1,332,808
1,346,228
1,362,782
19: 1,334,229
20: 1,327,629
1,334,902
1,354,278
265— 1: 1,347,291
1,360,154
1,363,836
2: 1,327,393
1,356,821
5: 1,356,009
1,360,186
6: 1,359,223
7: 1,344,295
1,344,339
1,352,880
8: 1,329,567
9: 1,338,647
1,343,476
1,362,618
11: 1,327,838
1,331,861
1,334,856
12: 1,328,349
1,335,402
1,343,611
1,348,897
1,354,216
1,354,217
1,354,218
13: 1,329,192
16: 1,348,026
19: 1,329,486
1,332,491
1,335,307
22: 1,333,984
23: 1,344,315
25: 1,331,069
1,346,546
26: 1,354,698
27: 1,327,553
28: 1,332,430
1,333,802
1,336,351
1,362,333
30: 1,330,593
32: 1,347,605
33: 1,351,768
36: 1,345,587
37: 1,347,572
1,351,080
1,360,213
39: 1,355,942
40: 1,329,685
42: 1,342,246
1,343,556
1,350,498
1,355,392
44: 1,354,681
1,360,537
45: 1,331,165
1,335,253
1,358,827
1,359,455
1,362,053
47: 1,329,684
1,354,447
1,361,990
49: 1,354,275
1,357,471
1,359,470
51: 1,359,586
52: 1,335,604
1,338,593
54: 1,332,783
1,345,180
1,350,189
1,351,449
55: 1,350,130
56: 1,328,319
1,328,320
1,347,206
1,359,272
61: 1,338,538
1,340,280
62: 1,326,963
1,327,208
1,327,450
1,333,926
1,334,472
1,339,326
1,339,759
1,341,123
1,346,481
1,348,174
1,351,034
1,352,097
1,352,935
1,358,849
1,360,172
63: 1,330,705
1,332,116
1,338,220
1,359,449
65: 1,357,683
68: 1,339,440
1,346,862
1,347,348
1,356,287
69: 1,348,225
1,355,499
70: 1,334,161
71: 1,331,757
1,333,473
1,335,599
1,340,318
1,344,806
1,352,104
1,352,441
266— 2: 1,351,495
3: 1,350,618
1,362,321
1,362,368
4: 1,334,663
1,339,424
1,350,697
1,352,459
1,354,368
1,359,936
1,362,367
5: 1,339,034
1,342,171
1,345,563
1,358,755
6: 1,327,443
1,334,606
1,335,912
1,337,465
1,342,112
1,346,419
1,346,946
1,362,708
7: 1,360,819
13: 1,359,332
19: 1,353,362
20: 1,338,292
1,358,293
21: 1,348,407
1,350,440
23: 1,327,715
1,333,899
1,342,502
1,345,242
1,348,363
1,351,846
1,352,381
1,352,760
1,357,859
1,358,637
1,359,155
1,359,530
24: 1,351,835
1,356,159
25: 1,357,780
1,357,781
29: 1,362,212
30: 1,341,872
1,342,073
31: 1,332,846
1,335,494
32: 1,331,803
34: 1,332,585
1,363,402
36: 1,362,532
37: 1,328,803
1,331,802
38: 1,332,973
1,361,754
40: 1,334,310
41: 1,360,191
1,362,702
42: 1,332,298
1,360,520
1,361,103
43: 1,328,380
1,338,655
1,363,610
1,362,336
46: 1,342,074
267— 1: 1,330,308
1,340,581
1,345,171
2: 1,329,678
1,333,835
1,352,724
3: 1,337,878
8: 1,351,558
1,361,523
1,363,541
9: 1,328,641
1,349,781
1,353,514
1,359,106
10: 1,334,247
1,334,390
1,334,455
1,337,996
1,345,814
1,356,471
1,363,309
12: 1,357,959
15: 1,332,093
1,336,468
1,340,434
1,341,274
1,344,683
1,346,300
16: 1,333,999
1,339,779
1,351,968
1,356,533
1,359,677
17: 1,330,484
1,331,357
1,333,592
1,334,883
17: 1,337,346
1,338,270
1,338,557
1,343,027
1,346,739
1,353,513
1,359,701
1,360,083
1,360,135
1,361,479
1,362,254
18: 1,332,739
1,354,482
19: R. 14,918
1,327,076
1,329,993
1,336,167
1,339,484
1,347,138
1,350,110
1,351,111
1,351,306
20: 1,344,204
22: 1,350,313
26: 1,344,593
27: 1,327,958
1,328,601
1,328,812
1,329,695
1,336,481
1,337,345
28: 1,330,727
1,336,534
1,337,391
1,338,371
1,338,673
1,338,854
1,351,105
29: 1,336,446
1,351,044
1,352,955
32: 1,334,700
1,363,798
33: 1,327,016
1,329,642
1,329,864
34: 1,327,750
36: 1,331,539
1,333,806
1,334,403
1,341,805
1,344,792
1,354,466
1,359,705
37: 1,327,063
1,332,831
1,352,915
41: R. 14,856
1,347,154
1,347,494
1,348,726
1,363,900
42: 1,329,561
45: 1,352,651
1,362,037
46: 1,349,170
1,352,540
1,354,980
47: 1,330,923
1,335,138
1,336,314
48: 1,329,683
49: 1,338,537
1,348,446
50: R. 14,870
1,328,496
1,335,516
1,342,172
1,343,453
1,350,217
1,352,314
52: 1,327,746
1,333,902
1,356,669
53: 1,352,488
1,353,746
54: 1,333,976
1,333,977
1,336,329
1,342,623
1,352,633
1,354,082
1,354,978
1,358,335
1,362,720
58: 1,333,993
60: 1,332,478
1,335,557
1,348,581
1,349,332
1,352,612
1,355,555
61: 1,349,079
267— 64: 1,330,527
1,331,564
1,336,184
1,340,233
1,343,560
1,350,414
65: 1,334,428
1,337,579
1,341,407
1,351,843
1,359,838
66: 1,335,513
1,347,286
1,350,674
1,350,771
1,354,162
1,360,925
1,362,681
67: 1,335,514
1,336,353
1,342,514
69: 1,345,945
1,356,944
70: 1,344,068
71: 1,351,553
1,352,268
1,359,754
72: 1,320,591
73: 1,330,497
1,340,184
74: 1,331,201
1,353,881
268— 1: 1,358,859
2: 1,338,372
1,354,048
1,355,890
4: 1,329,178
1,339,879
1,345,471
1,347,703
1,348,131
1,348,275
1,356,123
1,358,107
1,358,464
1,359,397
1,359,901
5: 1,338,560
6: 1,343,925
7: 1,335,288
8: 1,326,995
1,329,704
1,347,844
1,354,632
1,360,479
1,361,726
1,363,980
9: 1,328,584
1,328,979
1,330,718
1,333,567
1,335,750
1,338,379
1,338,755
1,341,775
1,347,193
1,348,017
1,348,076
1,354,135
1,356,077
1,362,750
14: 1,329,927
15: R. 14,793
17: 1,337,461
18: 1,337,776
1,338,671
1,344,561
19: 1,333,595
21: 1,345,010
24: 1,356,802
1,356,803
270— 5: 1,330,786
1,343,931
1,348,553
6: 1,353,799
17: 1,328,219
19: 1,353,509
21: 1,341,092
30: 1,354,294
1,354,614
31: 1,333,459
1,338,570
1,343,339
37: 1,336,445
39: 1,326,987
1,346,602
1,347,242
1,348,846
1,354,665
53: 1,343,231
57: 1,337,900
60: 1,356,184
61: 1,328,411

Digitized by Google

270— 61: 1,346,109
1,353,590
1,361,959
68: 1,362,971
93: 1,357,757
271— 2: 1,329,108
3: 1,335,043
8: 1,357,644
9: 1,348,254
18: 1,331,392
1,345,664
1,357,459
22: 1,333,288
23: 1,361,986
26: 1,334,451
27: 1,333,833
28: 1,331,977
1,353,519
29: 1,342,630
32: 1,335,556
37: 1,357,460
41: 1,352,284
43: 1,352,308
44: 1,359,191
46: 1,332,718
1,347,145
49: 1,353,088
1,361,588
50: 1,344,167
51: 1,353,087
52: 1,328,877
1,343,791
53: 1,340,722
1,340,723
1,341,694
1,343,608
54: 1,333,773
1,343,648
55: 1,327,546
1,344,810
56: 1,327,182
62: 1,334,367
1,335,336
1,349,133
1,357,612
63: 1,331,273
64: 1,357,680
76: 1,348,246
1,355,364
78: 1,332,665
79: 1,329,936
1,337,223
80: 1,363,030
1,363,031
82: 1,342,187
84: 1,353,899
85: 1,336,598
87: 1,327,588
1,354,144
1,362,411
1,345,300
1,350,488
1,360,378
1,362,100
1,327,520
1,332,979
1,337,530
273— 1,341,639
1,348,984
1,348,943
1,358,793
1: 1,335,352
1,343,156
1,347,067
1,349,611
1,354,386
2: 1,326,920
1,327,516
1,327,776
1,336,492
1,336,842
1,338,620
1,343,622
1,349,439
1,349,759
1,353,324
1,354,301
1,357,492
1,358,542
1,359,053
1,359,791
1,362,919
5: 1,338,719
9: 1,331,788
1,332,723
1,338,365
1,343,640
1,350,763
1,357,037
1,357,038
1,358,709
10: 1,334,076
1,341,011

274— 10: 1,341,751
1,342,442
1,347,096
1,349,705
1,355,081
1,356,594
1,357,536
1,358,171
1,358,185
1,361,717
1,361,718
1,362,972
1,363,903
14: 1,331,215
1,343,087
15: 1,327,816
1,330,603
1,331,214
1,331,702
1,332,339
1,332,722
1,334,736
1,339,199
1,340,524
1,340,525
1,348,357
1,348,358
1,349,240
1,357,602
1,358,613
1,361,405
1,362,091
16: 1,357,381
17: 1,350,616
1,355,523
1,357,936
1,359,991
18: R. 14,817
1,350,818
19: 1,333,726
20: 1,359,966
23: 1,334,351
1,341,511
1,346,254
24: 1,329,906
1,341,522
1,357,382
1,357,910
1,359,466
1,359,467
1,362,859
25: 1,344,931
27: 1,334,601
1,336,036
1,338,950
1,339,404
1,339,809
1,340,854
1,342,662
1,349,604
1,354,171
1,356,599
1,358,719
1,361,500
28: 1,332,661
1,334,094
1,345,950
1,347,059
1,349,205
1,358,135
1,359,995
29: 1,357,338
34: 1,340,298
1,340,436
1,344,186
35: 1,326,932
1,331,804
1,338,395
1,338,396
1,339,337
1,339,558
1,339,648
1,339,649
1,346,685
1,347,813
1,350,590
1,350,595
1,350,596
1,353,479
1,354,197
1,354,474
1,358,624
1,359,713
1,361,620
36: 1,329,832
37: 1,338,525
1,341,625
1,358,178
38: 1,343,507

274— 38: 1,344,839
1,362,173
39: R. 14,823
1,334,690
1,347,113
1,352,224
1,360,900
40: 1,357,953
42: 1,331,857
1,350,510
1,356,815
44: 1,356,298
45: 1,358,157
46: 1,350,246
53: 1,345,742
58: 1,345,756
65: 1,356,370
73: 1,345,487
275— 1: 1,328,709
1,339,256
1,357,013
1,358,927
2: 1,338,161
1,342,296
1,345,362
1,354,202
3: 1,334,443
5: 1,328,618
1,333,818
1,338,544
1,345,427
1,346,433
1,347,583
1,347,606
6: 1,349,152
1,350,296
7: 1,363,185
8: R. 14,808
1,343,265
9: 1,330,367
1,333,505
1,348,130
19: 1,339,667
276— 1: 1,338,964
3: 1,350,707
4: 1,331,597
16: 1,335,217
43: 1,352,478
277— 3: 1,345,772
1,350,407
1,356,360
5: 1,331,585
6: 1,351,914
1,351,915
1,362,539
7: 1,343,488
12: 1,356,925
14: 1,361,381
16: 1,350,438
18: 1,327,235
1,330,441
1,337,952
1,345,751
19: R. 14,815
1,364,060
20: 1,336,084
1,339,997
27: 1,346,984
37: 1,338,489
1,352,772
41: 1,354,522
1,357,081
42: 1,333,558
45: 1,328,235
46: R. 14,943
1,343,735
1,352,025
56: 1,334,355
1,354,291
57: 1,327,850
1,350,362
1,355,426
60: 1,354,440
61: 1,329,545
65: 1,353,321
66: 1,340,228
1,345,643
1,349,594
1,350,040
1,355,964
67: 1,334,753
1,350,385
69: 1,327,366
1,346,774
1,346,788
1,347,833
278— 1: 1,354,033
7: 1,357,830
13: 1,363,791
17: 1,354,796
29: 1,354,067
32: 1,354,186
36: R. 15,015

278— 36: 1,356,252
43: 1,363,603
86: 1,361,512
87: 1,355,568
90: 1,356,058
96: 1,355,138
117: 1,354,659
119: 1,356,966
122: 1,357,889
1,360,525
279— 1: 1,330,998
1,331,080
1,337,313
2: 1,356,574
1,359,992
1,361,773
4: 1,334,503
6: 1,355,757
1,361,686
8: 1,327,194
1,331,918
9: 1,361,571
15: 1,347,036
16: 1,334,898
1,357,843
1,359,108
24: 1,359,423
36: 1,363,053
42: 1,349,832
46: 1,332,817
1,361,335
49: 1,362,981
50: 1,348,740
52: 1,359,077
53: 1,345,658
55: 1,328,195
59: 1,343,795
60: 1,343,086
62: 1,338,775
63: 1,352,951
66: 1,341,085
71: 1,328,627
1,352,376
72: 1,351,347
74: 1,345,583
75: 1,331,566
1,353,299
1,361,730
76: 1,355,743
77: 1,329,274
79: 1,331,806
1,348,917
81: 1,330,111
1,341,634
87: 1,362,810
91: 1,353,043
93: 1,327,597
1,355,144
97: 1,350,311
99: 1,360,991
102: 1,355,685
103: 1,331,348
1,340,845
104: 1,343,552
112: 1,335,714
114: 1,350,746
119: 1,341,015
121: 1,334,772
280— 5: 1,329,039
1,332,219
1,332,614
1,341,214
1,341,215
1,341,216
1,342,266
1,347,051
1,351,253
6: 1,343,268
1,363,327
1,363,711
1,363,978
8: 1,350,929
1,355,459
1,357,117
1,359,254
9: 1,331,501
1,349,311
11: 1,335,292
1,343,046
1,353,071
12: 1,330,123
1,330,644
1,340,733
1,341,087
1,345,825
13: 1,328,629
1,328,715
1,332,144
1,337,153
1,345,307
1,345,321
1,363,148
14: 1,337,833

280— 14: 1,346,052
15: 1,353,141
1,355,705
16: 1,354,909
1,356,725
21: 1,349,645
1,353,817
1,355,379
22: 1,330,095
1,349,066
23: 1,354,995
1,362,902
33.1: 1,354,175
25: 1,335,096
27: 1,348,347
29: 1,333,290
30: 1,335,572
1,345,322
31: 1,336,725
32: 1,331,704
33.1: 1,330,289
1,330,805
1,334,113
1,343,790
1,346,927
1,348,241
1,351,102
1,351,245
1,363,988
33.2: 1,327,338
1,336,665
1,339,335
33.4: 1,338,546
1,343,197
1,361,090
33.5: 1,327,557
1,328,048
1,328,654
1,331,410
1,331,854
1,332,388
96.2: 1,342,079
1,342,507
96.3: 1,349,556
97: 1,327,829
1,358,894
1,362,404
33.6: 1,360,502
33.7: 1,339,048
33.8: 1,350,962
35: 1,330,376
1,350,963
36: 1,335,122
1,347,466
37: 1,348,723
1,352,234
1,361,698
38: 1,333,954
39: 1,347,169
40: 1,343,000
43: 1,363,439
44: 1,328,634
1,333,645
1,336,037
1,360,208
46: 1,346,486
47: 1,339,961
1,356,034
1,357,110
1,359,261
48: 1,336,033
49: 1,330,891
1,337,438
1,339,109
1,345,469
50: 1,330,835
1,341,235
1,345,470
1,353,190
1,356,672
51: 1,337,861
53: 1,339,514
1,342,437
1,363,499
54: 1,350,058
1,358,235
56: 1,341,171
1,342,585
1,343,650
1,358,881
1,361,728
59: 1,340,898
60: 1,327,864
61: 1,328,458
1,339,861
1,340,672
1,341,316
1,346,712
1,348,039
1,349,198
1,350,527
1,357,104
1,359,032
1,361,259

280— 80: 1,340,416
1,340,417
1,340,418
81: 1,340,414
81.5: 1,362,826
84: 1,332,343
86: 1,338,657
87: 1,340,740
1,341,426
1,349,342
1,354,417
87.5: 1,327,123
1,334,583
1,336,100
1,344,023
1,352,213
1,355,199
1,355,963
89: 1,354,036
91: 1,259,912
94: 1,328,681
1,334,082
1,335,064
1,339,294
1,346,211
1,349,469
1,349,653
1,353,610
1,355,171
1,355,517
95: 1,332,931
1,334,706
1,350,451
1,359,505
1,359,739
96.1: 1,344,192
1,355,377
1,355,709
1,357,327
1,363,211
96.2: 1,343,774
1,356,984
96.3: 1,356,170
97: 1,327,829
1,333,683
1,337,830
1,341,480
1,350,462
1,361,668
102: 1,352,141
103: 1,327,654
1,363,245
104: 1,344,334
106: 1,343,682
1,344,209
1,349,589
1,361,864
106.5: 1,330,512
1,337,501
1,346,326
1,352,625
1,357,497
1,360,419
112: 1,330,056
1,338,895
1,348,512
1,353,470
1,354,128
116: 1,351,808
117: 1,336,645
124: 1,351,641
1,351,996
1,355,502
1,355,823
1,361,002
132: 1,333,463
139: 1,356,974
140: 1,361,699
144: 1,337,416
145: 1,340,055
1,343,772
147: 1,334,618
1,351,402
148: 1,350,720
150: 1,334,312
1,359,544
1,362,474
151: 1,340,238
1,358,347
152: 1,341,355
153: 1,350,234
1,358,890
1,359,480
154: 1,348,625
156: 1,341,008
157: 1,362,841
1,363,669
158: 1,334,699
1,338,714
1,346,186
159: 1,352,679
161: 1,353,940
163: 1,337,078

Digitized by Google

Classification of patents—Continued.

280— 163: 1,350,253
164: 1,330,694
1,333,634
1,351,336
169: 1,334,565
176: 1,336,948
179: 1,342,654
332: 1,344,033
281— 1: 1,339,037
4: 1,347,225
6: 1,345,558
1,346,502
1,355,243
7: 1,342,707
1,351,002
1,360,714
8: 1,361,366
11: 1,333,082
1,333,083
1,338,140
1,338,167
1,361,566
14: 1,326,048
15: 1,331,998
1,343,778
17: 1,352,907
1,362,196
18: 1,340,713
20: 1,337,612
21: 1,332,777
1,341,782
1,361,118
25: 1,341,575
1,354,960
1,358,421
29: 1,336,198
31: 1,345,329
34: 1,354,354
38: 1,350,733
1,353,774
42: 1,330,852
1,337,582
1,363,120
282— 4: 1,346,479
1,349,865
12: 1,329,676
1,362,231
15: 1,363,508
16: 1,344,909
25: 1,351,864
1,355,324
27: 1,343,762
1,361,553
28: 1,332,141
29: 1,330,871
1,347,092
283— 1: 1,333,764
1,333,538
1,336,992
1,337,168
1,337,335
1,339,093
1,341,633
1,341,634
1,346,162
1,346,372
1,347,888
1,348,349
1,349,547
1,351,332
1,351,564
1,354,151
1,354,395
1,354,864
1,359,603
1,362,632
1,364,049
2: 1,341,018
5: 1,350,914
6: 1,329,250
8: 1,359,947
9: 1,336,647
1,343,865
1,344,235
1,355,286
12: 1,339,331
14: 1,355,626
18: 1,335,666
1,346,005
23: 1,330,217
1,330,726
1,335,420
1,338,770
1,341,346
1,353,286
26: 1,353,189
27: 1,338,018
30: 1,354,297
1,356,621
34: 1,339,942
36: 1,329,562
1,344,627
1,353,615

283— 38: 1,353,315
41: 1,343,755
42: 1,338,331
1,358,331
45: 1,340,100
47: 1,337,123
1,338,236
1,354,176
1,356,416
48: 1,330,216
1,333,439
49: 1,353,889
51: 1,327,855
1,356,050
56: 1,331,676
1,338,135
57: 1,329,106
1,331,596
1,347,326
1,357,638
58: 1,329,002
1,336,804
1,343,110
59: 1,329,120
1,334,593
60: 1,330,368
1,330,730
1,331,947
1,332,411
1,358,230
1,361,009
62: 1,363,712
63: 1,327,610
1,343,982
1,343,879
1,353,371
1,363,081
64: 1,355,903
66: 1,331,567
1,339,995
1,350,854
1,350,955
1,357,458
188: 1,348,107
284— 6: 1,327,031
1,339,042
1,343,352
1,347,836
9: 1,331,939
1,336,123
10: 1,343,084
12: 1,328,373
14: 1,344,827
17: 1,330,397
1,331,720
1,344,539
1,345,520
1,362,099
1,362,804
18: 1,339,555
1,343,819
19: 1,342,678
1,345,571
285— 1: 1,329,479
1,346,925
3: 1,345,124
1,346,440
1,350,132
1,355,678
1,357,107
7: 1,351,875
9: 1,327,632
1,329,760
10: 1,331,994
13: 1,348,277
14: 1,347,660
1,350,008
22: R. 14,906
1,336,924
1,342,286
1,344,922
1,349,663
1,352,075
24: 1,340,739
1,347,835
1,357,424
25: 1,338,972
1,342,133
1,355,862
1,357,153
1,363,713
26: 1,328,290
1,341,398
1,343,877
1,345,473
1,356,831
30: 1,356,564
31: 1,332,224
1,334,386
1,349,894
1,352,248
34: 1,333,368
1,358,714

285— 37: 1,327,144
40: 1,329,141
41: 1,359,900
47: 1,340,118
48: 1,330,910
49: 1,360,815
50: 1,334,072
51: 1,355,450
52: 1,342,825
54: 1,333,468
1,339,740
57: 1,346,422
1,353,006
1,361,666
58: R. 14,873
1,340,820
1,347,986
1,359,395
1,360,631
1,363,287
62: 1,330,983
1,354,643
1,359,408
1,360,633
63: 1,354,904
67: 1,336,323
68: 1,346,421
1,346,423
1,346,424
69: 1,333,791
1,346,425
1,350,074
1,350,083
72: 1,349,586
73: 1,346,330
74: 1,354,419
75: 1,339,620
76: 1,360,588
77: 1,329,121
1,354,480
1,357,820
1,358,633
79: 1,334,682
80: 1,354,710
84: 1,343,967
1,360,005
86: 1,331,923
1,343,353
1,349,284
1,352,342
1,354,669
1,361,758
87: 1,327,106
90: 1,336,111
1,345,971
1,354,706
91: 1,344,834
1,346,523
1,346,524
1,356,215
94: 1,326,039
1,345,334
95: 1,347,470
96: 1,337,388
107: 1,339,858
1,345,396
108: 1,331,370
1,336,423
1,360,381
110: 1,335,582
111: 1,355,712
114: 1,350,615
115: 1,334,530
1,357,311
120: 1,326,970
1,334,130
1,347,834
122: 1,360,382
123: 1,363,181
124: 1,330,327
126: 1,337,547
128: 1,352,256
130: 1,339,636
1,359,142
1,363,974
134: 1,332,836
137: 1,352,102
1,363,320
140: 1,348,667
142: 1,334,778
143: 1,339,141
145: 1,337,227
1,337,228
146: 1,334,306
1,340,289
1,344,221
1,344,774
1,349,518
1,350,078
150: 1,340,785
161: 1,329,759
1,342,936
163: 1,330,899

285— 163: 1,344,028
165: 1,330,420
1,334,007
167: 1,337,427
1,341,086
168: 1,363,963
169: 1,362,521
171: 1,331,715
1,361,856
172: 1,354,815
174: 1,341,536
177: 1,342,671
178: 1,341,135
180: 1,333,342
1,352,118
181: 1,332,769
185: 1,345,778
1,331,390
1,351,645
1,356,373
187: 1,342,000
189: 1,343,228
194: 1,343,463
1,345,543
1,357,494
197: 1,328,650
1,333,467
1,339,739
1,344,014
203: 1,362,718
286— 1: 1,356,404
1,361,669
7: 1,331,216
1,331,360
1,331,361
1,331,362
1,331,522
1,332,062
1,334,393
1,335,412
1,338,955
1,339,762
1,341,265
1,342,131
1,343,603
1,347,388
1,362,039
8: 1,328,286
9: 1,329,548
1,353,840
1,354,235
10: 1,354,192
11: 1,327,002
1,345,372
1,350,052
12: 1,340,130
1,354,404
1,355,318
14: 1,339,156
18: 1,327,801
20: 1,330,981
1,338,163
22: 1,338,206
1,346,616
1,354,539
23: 1,329,529
1,350,046
1,360,593
24: 1,339,297
27: 1,336,308
29: 1,363,378
30: 1,337,468
33: 1,347,851
1,356,393
1,363,565
36: 1,344,347
1,352,548
287— 1: 1,329,191
11: 1,330,953
12: 1,349,002
14: 1,329,416
17: 1,328,191
1,340,273
19: 1,342,392
24: 1,336,006
27: 1,336,631
29: 1,328,525
32: 1,343,781
33: 1,342,929
34: 1,336,707
35: 1,339,638
36: 1,342,495
1,347,871
42: 1,357,763
43: 1,336,185
49: 1,361,211
52: 1,339,852
1,363,496
53: 1,343,733
1,356,101
54: 1,352,714
58: 1,327,611
1,331,881

287— 58: 1,362,501
61: 1,347,563
1,359,539
78: 1,352,032
79: 1,346,506
87: 1,337,235
90: 1,350,075
92: 1,350,425
93: 1,359,737
100: 1,363,477
108: 1,331,776
1,344,425
1,355,792
1,359,955
105: 1,348,692
110: 1,351,366
111: 1,337,642
1,347,111
114: 1,331,179
116: 1,328,612
1,345,982
118: 1,338,746
288— 1: 1,331,253
1,338,617
1,339,599
1,357,219
1,359,170
3: 1,348,929
8: 1,354,668
12: 1,349,659
289— 16: 1,362,993
290— 4: 1,329,276
1,337,613
1,356,065
1,362,380
1,362,593
1,362,637
1,363,302
7: 1,359,041
1,361,048
1,362,588
1,362,921
12: 1,329,780
1,350,424
1,357,746
15: 1,361,244
19: 1,340,249
23: 1,328,083
1,347,250
27: 1,344,814
30: 1,330,135
1,347,546
1,350,437
1,360,246
1,361,097
31: 1,330,101
1,331,090
1,338,857
1,342,409
1,343,409
1,352,794
1,356,753
1,359,022
1,363,236
34: 1,332,707
35: R. 14,842
1,330,520
1,330,618
1,335,153
1,337,363
1,337,364
1,337,887
1,338,987
1,341,327
1,344,870
1,345,566
1,348,907
1,355,410
36: 1,343,028
1,343,029
1,343,030
1,345,540
1,348,555
1,363,237
37: 1,328,873
1,354,902
1,361,448
38: 1,327,132
1,330,566
1,332,032
1,337,649
1,341,658
1,341,659
1,341,660
1,343,222
1,349,866
1,349,870
1,352,468
1,353,876
1,358,935
1,362,770
40: 1,330,961
1,355,447

290— 40: 1,362,546
41: 1,336,619
1,347,460
1,352,266
44: 1,345,556
1,352,960
1,355,672
46: 1,339,258
47: 1,333,331
1,346,598
1,350,703
1,362,771
48: 1,330,567
1,337,973
1,342,478
1,343,020
1,362,772
52: 1,362,497
291— 2: 1,360,746
3: 1,330,115
1,354,570
6: 1,356,982
11: 1,340,728
16: 1,340,016
23: 1,328,739
1,352,205
24: 1,360,627
28: 1,338,640
1,347,306
1,349,606
34: 1,342,316
1,353,560
36: 1,351,760
1,352,206
43: 1,341,236
292— 5: 1,340,876
1,359,788
6: 1,328,355
15: 1,339,178
1,358,012
17: 1,336,897
1,352,456
18: 1,348,001
1,348,108
19: 1,331,131
21: 1,345,041
1,357,007
22: 1,352,114
26: 1,332,193
36: 1,357,112
1,358,867
37: 1,335,192
39: 1,334,314
1,338,689
44: 1,337,638
45: 1,341,155
48: 1,356,479
49: 1,348,028
50: 1,361,582
52: 1,328,284
54: 1,358,287
57: 1,332,479
1,355,371
59: 1,354,222
60: 1,357,636
61: 1,344,048
62: 1,326,937
63: 1,330,960
1,336,430
1,345,928
64: 1,330,237
67: 1,327,291
1,346,065
1,361,622
74: 1,330,945
1,344,644
75: 1,328,029
1,346,449
1,349,168
1,356,685
76: 1,328,345
1,335,100
1,352,171
78: 1,335,958
1,344,508
89: R. 14,953
1,335,575
98: 1,347,341
99: 1,359,121
103: 1,347,048
109: 1,356,677
1,361,169
113: 1,334,575
114: 1,330,773
1,358,123
116: 1,360,839
117: 1,335,375
1,351,936
120: 1,355,046
1,360,563
121: 1,344,647
123: 1,361,702
127: 1,338,153

Digitized by Google

Classification of patents—Continued.

292— 127: 1,348,715
128: 1,333,348
1,336,496
1,339,781
1,346,566
1,354,013
1,359,774
130: 1,338,052
136: R. 14,945
1,341,583
1,359,800
137: 1,338,339
140: 1,351,868
142: 1,353,533
143: 1,334,998
1,346,263
145: 1,358,077
146: 1,345,031
147: 1,354,640
1,360,413
150: 1,351,300
155: 1,354,625
1,354,752
166: 1,332,876
1,355,591
167: 1,361,194
168: 1,333,499
169: 1,339,320
1,346,129
1,349,046
1,355,043
1,356,604
1,362,669
171: 1,337,513
173: 1,331,166
1,331,721
1,333,974
1,347,292
1,350,258
1,353,834
1,356,612
1,357,991
175: 1,336,242
1,339,670
1,352,624
179: 1,329,977
1,347,799
182: 1,326,956
183: 1,338,219
189: 1,341,569
1,342,961
196: 1,340,462
202: 1,332,315
1,334,610
1,353,760
205: 1,361,594
207: 1,354,597
209: 1,344,038
210: 1,336,274
211: 1,331,858
212: 1,327,011
1,343,851
1,357,864
216: 1,334,320
1,347,991
1,352,762
218: 1,357,765
219: 1,355,403
221: 1,339,492
222: 1,353,447
228: 1,334,481
1,337,447
1,343,323
1,347,364
1,356,526
1,357,849
1,358,233
1,361,378
230: 1,347,229
1,352,147
233: 1,350,698
1,360,835
236: 1,334,789
238: 1,336,696
1,338,209
240: 1,329,938
1,342,563
241: 1,334,737
1,338,250
1,338,416
1,339,362
1,351,736
1,353,655
242: 1,351,222
246: 1,361,868
247: 1,329,869
1,339,174
1,350,713
251: 1,346,677
256: 1,346,450
259: 1,344,444
1,356,880
262: 1,348,260

292— 262: 1,354,876
1,359,702
1,359,709
263: 1,331,976
1,362,641
264: 1,329,723
265: 1,327,754
266: 1,351,659
267: 1,336,635
270: 1,351,650
272: 1,338,488
275: 1,330,333
1,333,599
1,335,429
1,338,871
1,344,607
1,353,823
1,357,714
1,358,349
278: 1,334,922
281: 1,330,168
1,342,961
284: 1,349,280
1,361,159
285: 1,340,005
1,362,167
288: 1,359,693
1,360,628
296: 1,339,856
300: 1,337,495
306: 1,341,173
307: 1,359,784
315: 1,344,491
1,345,806
316: 1,348,473
317: 1,338,618
1,363,724
318: 1,333,376
1,354,634
1,361,903
321: 1,356,976
322: 1,331,133
1,334,353
1,336,888
1,337,985
1,354,164
1,356,152
325: 1,348,271
1,354,165
327: 1,332,491
332: 1,360,040
333: 1,351,686
1,362,217
334: 1,335,235
335: 1,330,693
1,338,713
1,340,398
1,347,251
1,354,104
336: 1,341,234
1,341,802
1,345,913
1,359,374
337: 1,327,695
339: 1,332,473
1,334,399
1,353,543
340: 1,327,694
1,353,440
1,357,084
342: 1,335,792
1,357,244
1,358,611
343: 1,336,045
1,338,305
1,351,453
1,354,046
1,362,983
347: 1,341,969
1,342,058
1,348,967
1,357,892
1,363,344
352: 1,334,267
359: 1,348,047

293— 5: 1,353,854
9: 1,343,727
1,355,182
15: 1,333,797
1,354,444
16: 1,331,910
1,347,372
1,352,757
25: 1,347,624
35: 1,344,213
37: 1,332,134
1,340,335
1,358,541
1,363,738
38: 1,333,522
41: 1,347,699
1,363,529
42: 1,336,277

293— 45: 1,346,496
49: 1,346,345
52: 1,342,402
1,361,692
55: 1,328,283
1,328,786
1,329,019
1,329,334
1,329,517
1,329,667
1,329,670
1,332,142
1,337,522
1,338,048
1,338,433
1,338,597
1,339,167
1,339,756
1,340,867
1,341,572
1,341,917
1,342,290
1,342,374
1,342,393
1,343,740
1,343,741
1,344,649
1,344,796
1,344,797
1,344,798
1,344,799
1,345,106
1,345,553
1,345,554
1,346,048
1,346,478
1,346,667
1,346,668
1,346,850
1,347,937
1,348,030
1,348,053
1,348,329
1,348,634
1,348,961
1,348,962
1,349,117
1,350,406
1,351,049
1,351,050
1,351,837
1,352,220
1,352,296
1,353,241
1,354,273
1,354,441
1,354,833
1,355,592
1,355,773
1,357,291
1,357,505
1,357,506
1,357,507
1,358,687
1,358,688
1,358,689
1,358,964
1,358,965
1,359,184
1,359,185
1,359,186
1,360,369
1,361,429
1,361,599
1,361,600
1,362,195
1,362,416
1,362,620
1,363,201
1,363,202
1,363,780
1,363,850
1,363,927
57: 1,353,553
58: 1,345,916

294— 1: 1,335,431
1,362,308
2: 1,360,359
10: 1,353,428
1,355,080
13: 1,335,191
1,349,211
1,363,968
15: 1,351,705
17: 1,355,053
19: 1,337,398
1,346,022
1,350,123
20: 1,363,515
22: 1,328,960
23: 1,350,331
24: 1,339,444
25: 1,346,894

294— 25: 1,359,717
26: 1,334,510
1,345,889
28: 1,336,255
1,343,518
1,346,733
1,357,131
30: 1,337,450
1,346,920
31: 1,330,487
1,338,065
1,342,758
1,353,782
1,360,140
1,362,606
32: 1,353,011
1,360,114
1,363,928
33: 1,341,371
1,341,502
1,348,416
1,349,135
1,350,641
1,357,091
1,360,227
34: 1,356,411
1,359,068
36: 1,331,246
1,338,540
43: 1,332,726
1,333,243
1,336,461
1,338,043
1,345,035
1,346,306
47: 1,331,443
1,333,475
48: 1,334,965
49: 1,336,203
1,351,425
1,355,001
51: 1,337,039
55: 1,357,359
57: 1,342,467
1,349,223
60: 1,331,495
1,335,848
1,347,870
1,352,921
61: 1,362,194
64: 1,346,548
66: 1,340,313
68: 1,342,018
1,347,891
1,356,212
69: 1,335,080
1,342,414
1,351,167
1,353,651
1,360,109
72: 1,358,357
74: 1,332,234
78: 1,341,427
79: 1,345,112
82: 1,344,320
1,353,503
1,361,249
83: 1,344,187
1,360,521
85: 1,343,641
87: 1,338,652
1,350,984
88: 1,346,160
1,352,947
1,363,779
89: 1,352,665
90: 1,336,084
1,341,957
1,345,103
1,347,535
1,351,744
91: 1,341,166
93: 1,347,041
96: 1,337,902
1,347,003
1,358,807
97: 1,357,999
1,363,226
99: 1,353,177
1,357,508
1,360,582
100: 1,356,841
101: 1,351,930
102: 1,337,476
1,352,172
1,362,883
106: 1,338,023
1,345,030
1,348,059
1,351,493
1,356,515
109: 1,350,053
110: 1,330,248

294— 110: 1,336,815
114: 1,340,083
115: 1,350,675
1,359,649
118: 1,343,057
1,344,174
124: 1,357,882
131: 1,349,889
295— 8.5: 1,330,384
1,338,208
1,345,738
1,350,813
1,352,168
9: 1,327,849
19: 1,350,738
25: 1,356,957
34: 1,355,466
36: 1,333,527
1,341,432
1,357,226
39: 1,345,933
42: 1,329,496
1,329,497
1,329,847
1,355,639
1,356,280
1,358,056
43: 1,329,495
44: 1,336,128
1,346,756
45: 1,329,498
47: 1,334,018
1,334,019
1,344,460
48: 1,346,193
49: 1,347,280
1,360,816
50: 1,344,600
1,355,760
122: 1,327,395
135: 1,336,783
296— 6: 1,333,579
1,355,945
8.5: R. 14,872
9: 1,349,496
10: R. 8,990
1,355,925
1,361,603
11: 1,353,975
1,360,889
13: 1,332,843
1,351,475
1,353,351
1,355,173
14: 1,328,680
21: 1,327,248
1,340,853
23: 1,327,589
1,336,627
1,358,001
24: 1,333,670
1,350,601
1,355,408
25: 1,344,717
26: 1,327,883
1,363,405
27: 1,331,144
1,357,686
28: 1,333,609
1,346,744
1,347,517
1,356,459
1,359,906
30: 1,339,521
1,346,963
31: 1,332,269
1,362,249
35: 1,334,714
1,344,572
1,361,052
1,363,785
37: 1,349,859
1,349,959
1,351,547
1,358,041
43: 1,333,396
1,333,990
1,349,500
1,353,624
1,361,706
44: 1,333,246
1,348,882
45: 1,348,624
1,353,157
47: 1,334,132
1,363,376
1,363,908
1,363,909
48: 1,338,445
51: 1,331,570
1,332,424
1,348,651
1,351,656

296— 51: 1,356,560
52: 1,329,981
1,342,705
54: 1,355,253
55: 1,332,786
1,351,165
1,351,436
1,359,734
1,360,474
1,362,818
56: 1,327,079
59: 1,343,263
1,357,955
62: 1,340,761
63: 1,351,439
65: 1,329,804
1,335,678
1,345,931
1,361,359
66: 1,343,655
1,344,546
76: 1,343,068
77: 1,343,847
84: R. 14,919
1,339,889
1,340,025
1,341,464
1,342,794
1,343,318
1,343,440
1,345,053
1,346,402
1,356,213
1,359,843
1,361,231
1,362,759
1,363,528
1,364,053
85: 1,331,745
1,345,061
1,352,094
1,353,552
90: 1,347,461
92: 1,331,252
1,338,487
1,342,183
1,343,376
1,343,598
1,349,032
1,360,721
1,361,837
93: 1,341,413
1,350,883
94: 1,333,028
1,337,296
1,337,472
1,355,079
95: 1,332,126
1,332,162
1,332,753
1,345,585
1,345,826
1,346,664
1,349,430
1,351,339
1,360,919
1,363,510
96: 1,338,004
1,339,770
1,344,844
1,347,752
1,348,135
97: 1,332,225
1,333,516
1,342,347
1,354,873
1,358,262
1,362,866
98: 1,329,627
1,331,122
99: 1,336,953
1,357,220
101: 1,332,244
102: 1,336,331
1,347,592
1,353,787
1,359,686
1,360,407
104: 1,358,978
107: 1,354,967
108: 1,328,391
1,334,313
109: 1,338,446
110: 1,337,360
1,338,026
1,340,279
116: R. 14,982
1,330,840
1,332,418
1,333,798
1,333,844
1,334,568
1,335,085

Digitized by Google

Classification of patents—Continued.

296—	116:	1,336,022
		1,342,012
		1,347,678
		1,349,045
		1,353,129
		1,353,925
		1,355,064
		1,356,921
		1,361,960
		1,362,476
	117:	1,334,381
		1,334,382
		1,334,383
		1,340,518
		1,360,579
		1,361,606
	118:	1,340,307
		1,361,157
	128:	1,347,553
		1,347,554
	135:	1,347,881
	136:	1,356,541
	137:	1,341,687
		1,348,593
	138:	1,330,762
		1,342,831
		1,345,086
		1,345,901
		1,353,468
	139:	1,343,148
		1,350,471
	140:	1,346,203
	141:	1,345,174
	143:	1,351,403
		1,353,351
	145:	1,331,683
		1,334,824
		1,336,116
		1,337,302
		1,339,170
		1,339,838
		1,340,912
		1,341,092
		1,342,460
		1,345,602
		1,347,499
		1,353,306
		1,355,247
		1,355,558
		1,356,389
		1,357,167
		1,358,491
		1,359,136
		1,360,094
		1,363,702
297—	3:	1,359,107
	8:	1,329,351
	14:	1,337,367
		1,337,529
298—	1:	1,333,289
		1,345,616
	2:	1,341,013
		1,353,247
	5:	1,349,285
298—	7:	1,344,100
		1,346,575
	10:	1,334,544
		1,334,913
		1,342,919
		1,349,838
		1,354,791
	11:	1,342,628
		1,351,719
		1,353,190
		1,353,737
	12:	1,358,346
	13:	1,328,805
	14:	1,362,819
		1,363,945
	17:	1,328,137
		1,328,890
	18:	1,331,811
		1,354,111
	19:	1,328,240
		1,328,837
		1,328,928
		1,330,015
		1,332,308
		1,336,163
		1,341,142
		1,342,472
		1,343,283
		1,351,796
		1,355,576
		1,355,763
		1,357,279
		1,359,363
	21:	1,334,375
		1,356,879
		1,359,776
		1,362,534
	22:	1,332,008
		1,333,244
		1,334,730
		1,339,079
		1,358,675
	23:	1,340,798
		1,354,817
		1,360,772
		1,363,917
	27:	1,332,813
		1,347,373
	30:	1,342,101
		1,331,899
	35:	1,353,062
	38:	1,330,655
		1,341,381
299—	3:	1,354,113
	8:	1,354,064
	9:	1,336,401
		1,346,047
	12:	1,338,474
		1,339,159
		1,339,322
		1,349,775
		1,357,436
		1,360,260
	15:	1,344,948
299—	15:	1,347,566
	18:	1,339,349
	20:	1,332,659
		1,341,525
		1,349,314
		1,351,263
	22:	1,349,703
	24:	1,358,928
	29:	1,347,892
	35:	1,357,502
	36:	1,328,738
		1,363,993
	38:	1,340,806
	39:	1,348,038
	43:	1,339,382
	47:	1,346,845
	49:	1,334,808
	58:	1,349,874
	60:	1,337,744
	63:	1,330,218
		1,361,607
	68:	1,334,341
	73:	1,338,242
		1,339,005
	78:	1,339,785
		1,350,205
		1,350,499
		1,354,504
	80:	1,360,436
	83:	1,328,942
		1,350,175
	85:	1,347,520
	86:	1,346,811
	88:	1,331,643
		1,357,452
	89:	1,359,485
	90:	1,350,133
	93:	1,342,580
	95:	1,332,520
	96:	1,356,657
	97:	1,329,103
		1,360,070
	98:	1,337,467
		1,340,376
	102:	1,347,902
		1,353,650
	107:	1,351,139
	108:	1,349,440
	112:	1,329,601
	114:	1,345,598
		1,348,631
		1,351,840
	115:	1,340,136
	116:	1,343,780
	117:	1,328,721
		1,361,979
	119:	1,332,667
	120:	1,362,493
		1,363,703
	121:	1,337,589
	126:	1,331,255
		1,362,099
	129:	1,342,124
	132:	1,363,967
299—	133:	1,342,486
	135:	1,327,452
	138:	1,345,803
	141:	1,335,267
		1,343,412
		1,347,150
		1,351,903
		1,363,144
		1,363,720
	144:	1,337,516
		1,353,495
	151:	1,333,048
	152:	1,344,383
301—	3:	1,363,118
	6:	1,361,654
	9:	1,361,076
		1,363,838
	11:	1,353,573
	15:	1,345,522
	17:	1,344,212
		1,357,144
	18:	1,360,760
	20:	1,347,128
	23:	1,359,149
		1,362,494
	27:	1,362,340
	30:	1,362,430
	32:	1,350,262
		1,353,943
		1,355,166
		1,358,923
	33:	1,358,711
		1,360,947
		1,362,433
	35:	1,345,670
		1,348,122
		1,351,252
		1,358,757
		1,362,306
		1,362,307
		1,363,277
		1,363,604
	37:	1,351,261
		1,359,647
	39:	1,344,512
	40:	1,343,936
		1,345,291
		1,351,992
	41:	1,360,451
		1,363,317
	44:	1,357,198
		1,359,439
		1,359,887
	46:	1,352,281
		1,353,849
	48:	1,354,723
		1,361,331
	50:	1,363,403
	52:	1,354,163
		1,357,395
	56:	1,358,819
	63:	1,353,161
		1,357,266
		1,358,850
301—	63:	1,359,964
		1,361,227
		1,363,519
	64:	1,351,052
		1,352,723
	65:	1,361,655
	66:	1,350,827
	74:	1,363,461
	75:	1,362,922
	89:	1,363,411
	101:	1,350,528
	108:	1,357,010
	111:	1,346,857
	112:	1,345,545
	120:	1,354,114
	132:	1,358,092
302—	5:	1,350,847
	8:	1,349,948
	9:	1,355,632
	10:	1,353,674
	17:	1,351,373
	22:	1,348,603
	25:	1,359,497
	32:	R. 14,841
	35:	1,360,160
	36:	1,362,767
	50:	1,346,293
	52:	1,346,310
		1,349,751
	53:	1,347,358
		1,348,010
		1,357,663
	59:	1,348,561
		1,361,252
		1,362,026
303—	7:	1,357,692
	14:	1,345,181
	15:	1,339,681
		1,339,720
	18:	1,339,680
	20:	1,339,962
		1,343,210
	21:	1,347,784
	27:	1,361,279
	51:	1,346,859
	52:	1,343,695
	53:	1,339,678
	55:	1,359,664
	56:	1,355,188
	62:	1,343,694
	63:	1,340,861
	84:	1,359,540
	85:	1,346,861
304—	2:	1,339,661
		1,359,452
	3:	1,351,053
		1,351,795
	5:	1,352,188
	7:	1,357,185
	9:	1,362,944
	10:	1,349,093
	11:	1,347,453
	12:	1,347,430
	16:	1,340,191
304—	19:	1,331,688
	20:	1,339,458
		1,339,482
		1,340,492
		1,341,597
		1,363,864
	24:	1,347,115
		1,347,694
		1,353,681
		1,359,418
		1,361,184
	26:	1,343,546
		1,351,690
	27:	1,347,016
		1,347,122
		1,351,434
	29:	1,360,131
		1,363,749
	30:	1,349,426
	34:	1,352,914
	36:	1,339,025
		1,358,277
	38:	1,356,819
		1,360,724
	40:	1,344,139
		1,345,012
		1,346,170
	88:	1,360,507
305—	1:	1,355,910
	3:	1,352,260
	4:	1,348,818
		1,361,876
		1,364,020
	7:	1,349,730
	8:	1,354,219
	9:	1,344,363
		1,358,934
		1,359,538
	10:	1,341,428
		1,341,761
		1,343,958
		1,344,373
		1,344,398
		1,347,253
		1,353,861
		1,355,540
		1,356,958
		1,356,743
		1,357,718
		1,358,494
		1,359,499
		1,360,115
	11:	1,348,070
	13:	1,346,145
		1,350,457
		1,352,635
		1,353,068
		1,353,256
306—	11:	1,362,341
	33:	1,362,945
	42:	1,357,451

Digitized by Google

Digitized by Google

Digitized by Google

Digitized by Google